

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091223\
 Data File : BF135181.D
 Acq On : 12 Sep 2023 14:50
 Operator : CG\JU
 Sample : 04212-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-2

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel

09/13/2023

Supervised By :mohammad
 ahmed

09/13/2023

Quant Time: Sep 13 02:04:33 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	110073	20.000	ng	0.00
21) Naphthalene-d8	8.039	136	425181	20.000	ng	0.00
39) Acenaphthene-d10	9.792	164	199926	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	337554	20.000	ng	0.00
76) Chrysene-d12	13.939	240	202977	20.000	ng	0.00
86) Perylene-d12	15.404	264	213865	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	728144	107.591	ng	0.01
7) Phenol-d6	6.404	99	904365	105.091	ng	0.00
23) Nitrobenzene-d5	7.328	82	572327	73.132	ng	0.00
42) 2,4,6-Tribromophenol	10.586	330	203746	102.551	ng	-0.01
45) 2-Fluorobiphenyl	9.122	172	868997	65.578	ng	0.00
79) Terphenyl-d14	12.886	244	597644	45.644	ng	0.00
Target Compounds						
						Qvalue
71) Phenanthrene	11.310	178	36502	2.286	ng	97
75) Fluoranthene	12.504	202	89971	5.408	ng	98
78) Pyrene	12.733	202	85338	4.416	ng	99
81) Benzo(a)anthracene	13.933	228	45254m	3.453	ng	
83) Chrysene	13.968	228	49515	3.800	ng	97
88) Benzo(b)fluoranthene	14.980	252	68691m	5.933	ng	
90) Benzo(a)pyrene	15.339	252	44259	4.009	ng	96
92) Benzo(g,h,i)perylene	17.315	276	27226	2.272	ng	99

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

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TOPSOIL-OU3-DENALI-2

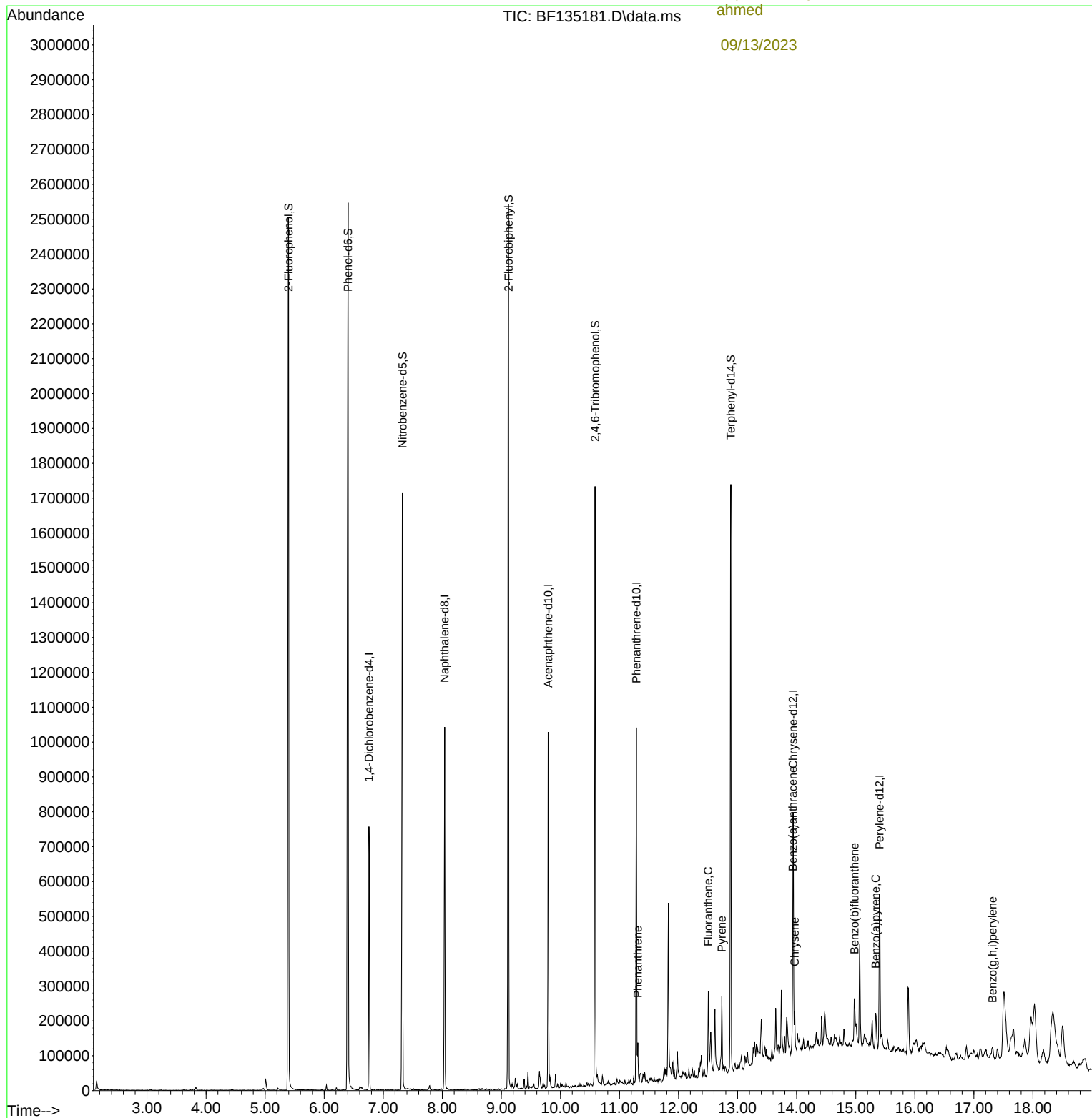
Quant Time: Sep 13 02:04:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 00:19:07 2023
Response via : Initial Calibration

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Supervised By :mohammad
ahmed

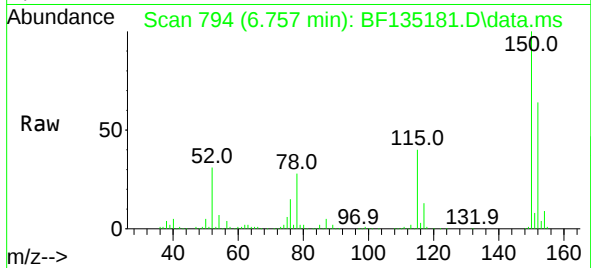
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



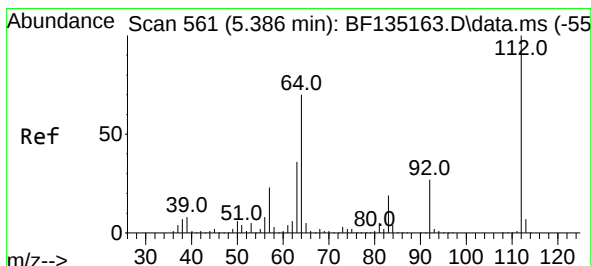
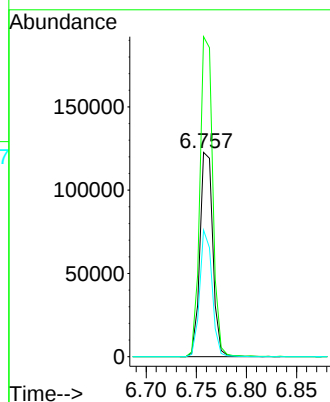
Tgt Ion:152 Resp: 110073
Ion Ratio Lower Upper
152 100
150 156.7 127.8 191.6
115 62.0 49.8 74.8

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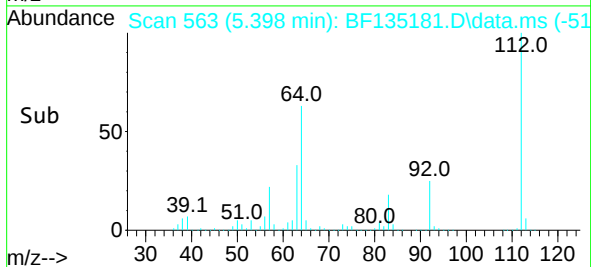
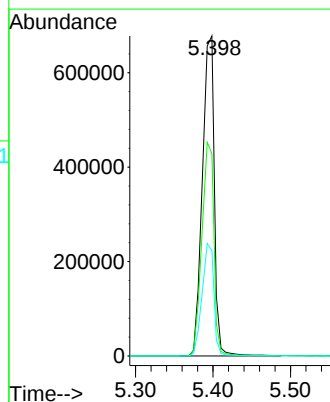
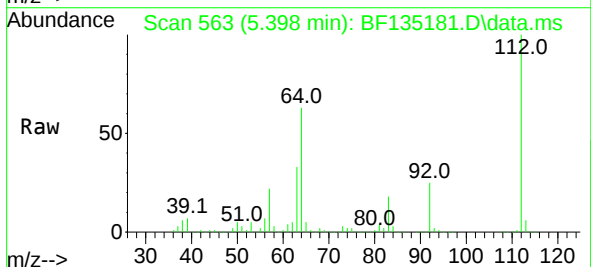
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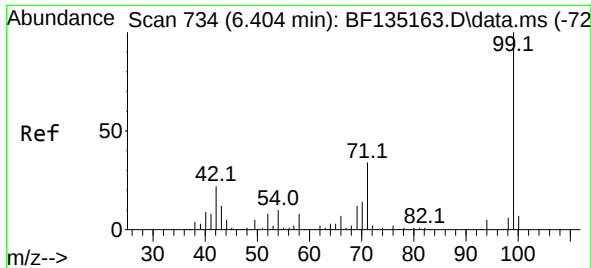
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#5
2-Fluorophenol
Concen: 107.591 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

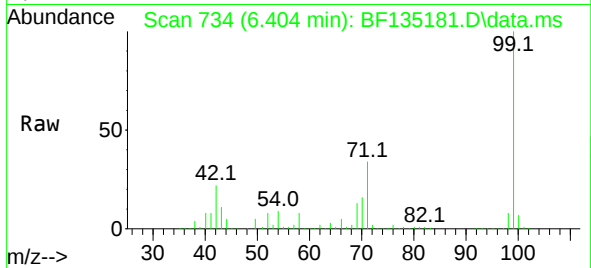
Tgt Ion:112 Resp: 728144
Ion Ratio Lower Upper
112 100
64 63.2 55.9 83.9
63 33.0 29.0 43.6





#7
Phenol-d6
Concen: 105.091 ng
RT: 6.404 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



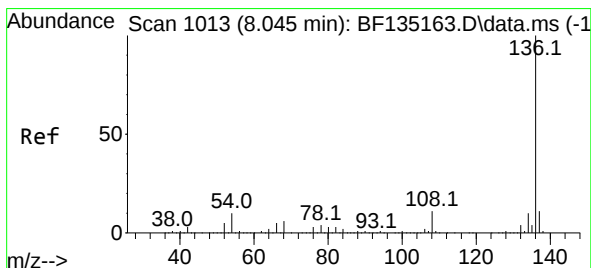
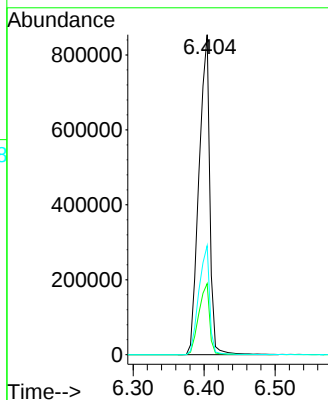
Tgt Ion: 99 Resp: 90436
Ion Ratio Lower Upper
99 100
42 22.2 17.9 26.9
71 34.0 27.0 40.6

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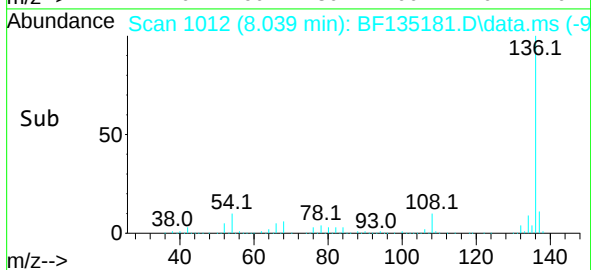
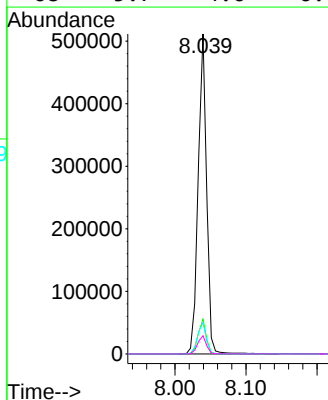
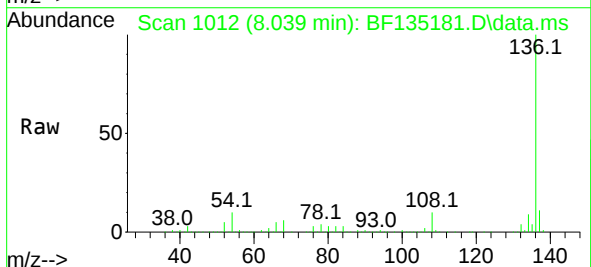
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

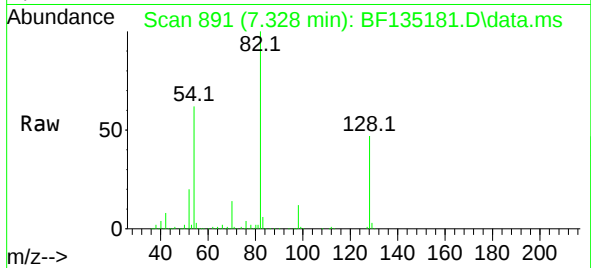
Tgt Ion:136 Resp: 425181
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 9.8 7.7 11.5
68 5.7 4.6 6.8





#23
Nitrobenzene-d5
Concen: 73.132 ng
RT: 7.328 min Scan# 891
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



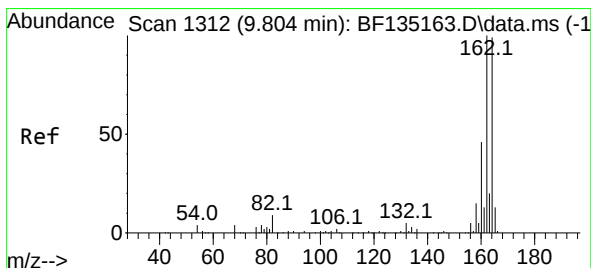
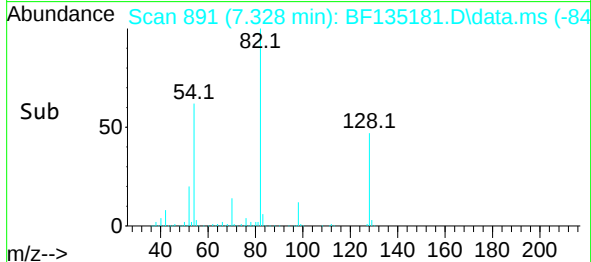
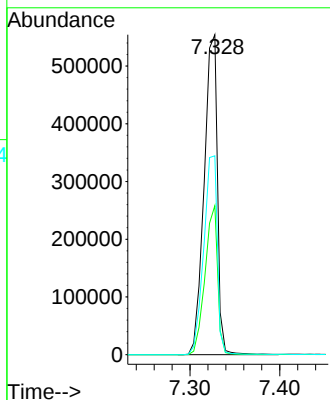
Tgt Ion: 82 Resp: 57232
Ion Ratio Lower Upper
82 100
128 46.5 35.8 53.6
54 62.1 50.6 76.0

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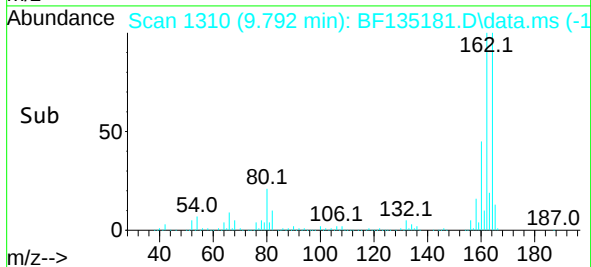
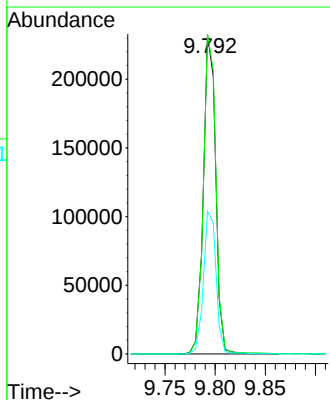
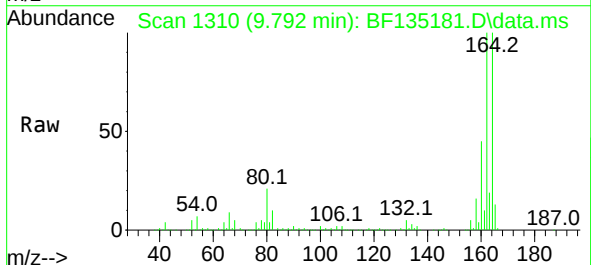
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

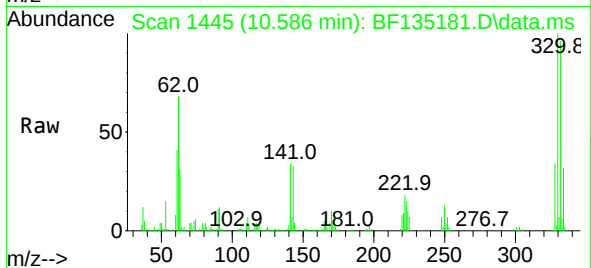
Tgt Ion:164 Resp: 199926
Ion Ratio Lower Upper
164 100
162 100.2 81.0 121.4
160 44.7 37.0 55.4





#42
2,4,6-Tribromophenol
Concen: 102.551 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



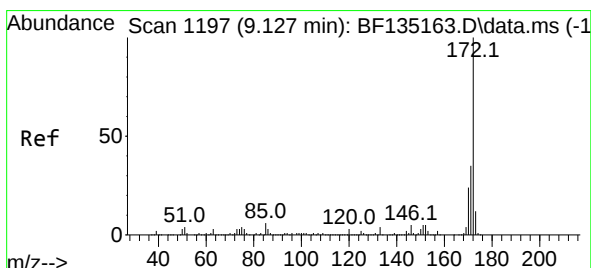
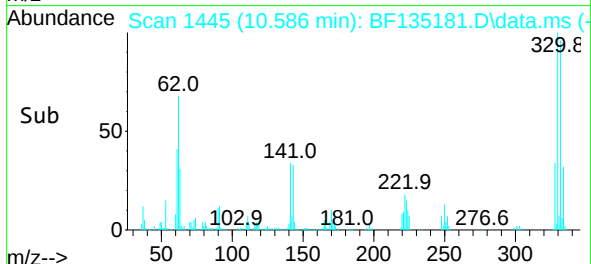
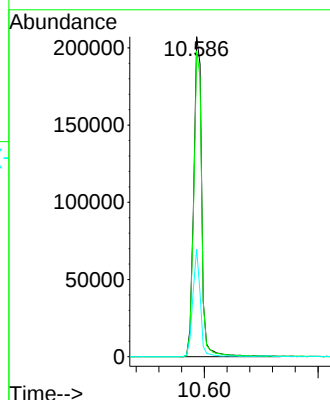
Tgt Ion: 330 Resp: 203740
Ion Ratio Lower Upper
330 100
332 94.7 77.3 115.9
141 31.7 25.8 38.8

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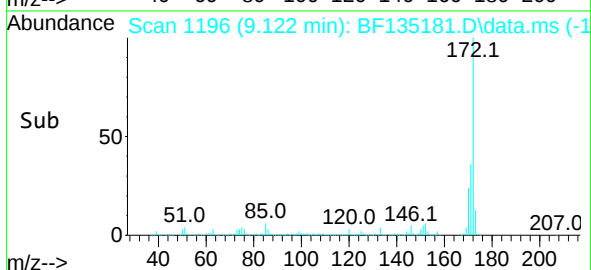
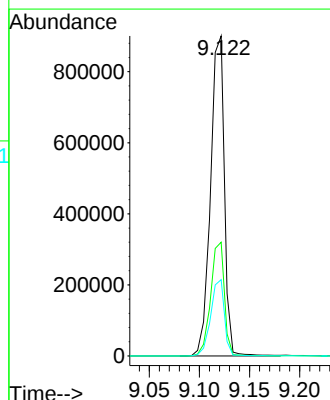
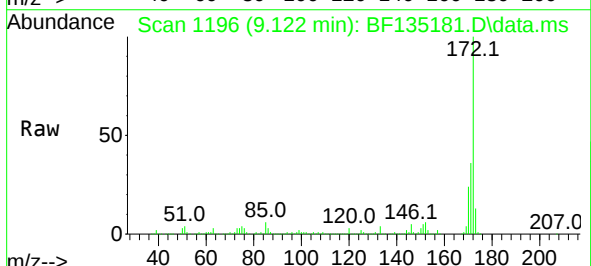
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#45
2-Fluorobiphenyl
Concen: 65.578 ng
RT: 9.122 min Scan# 1196
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

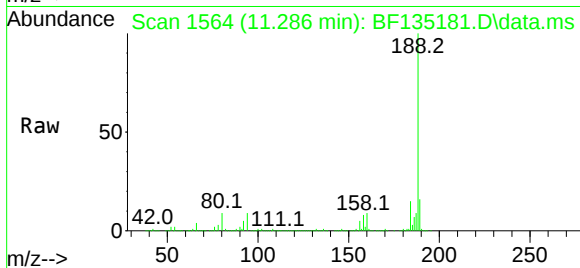
Tgt Ion: 172 Resp: 868997
Ion Ratio Lower Upper
172 100
171 35.6 28.4 42.6
170 23.9 19.0 28.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



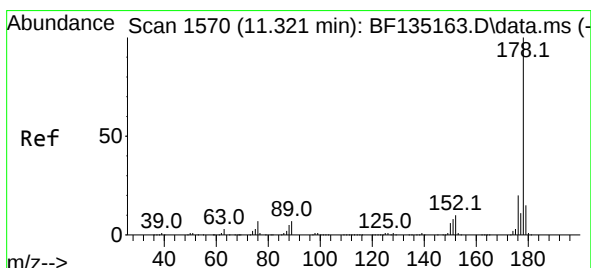
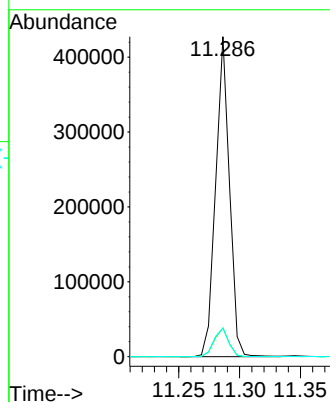
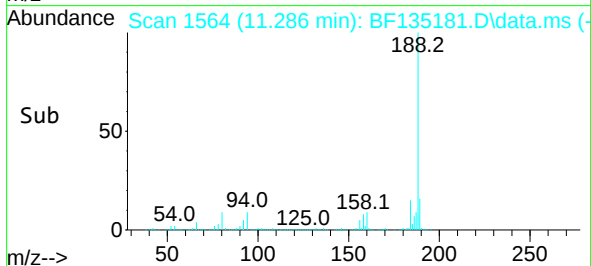
Tgt Ion:188 Resp: 337554
Ion Ratio Lower Upper
188 100
94 9.0 7.0 10.6
80 8.9 7.5 11.3

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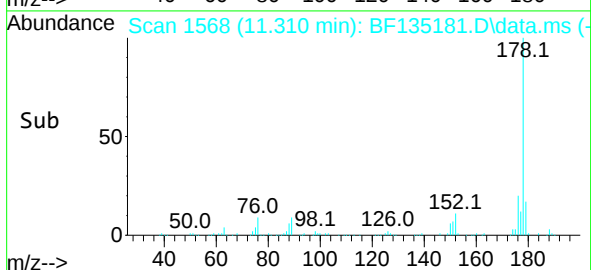
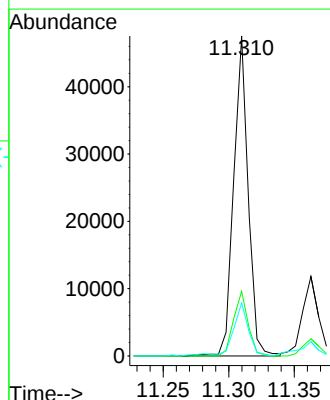
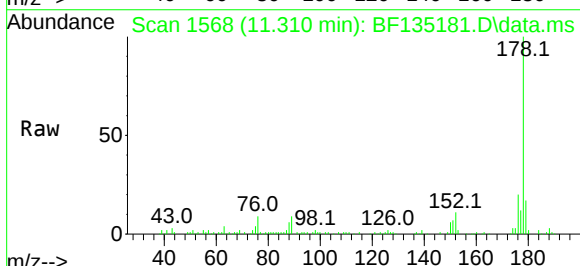
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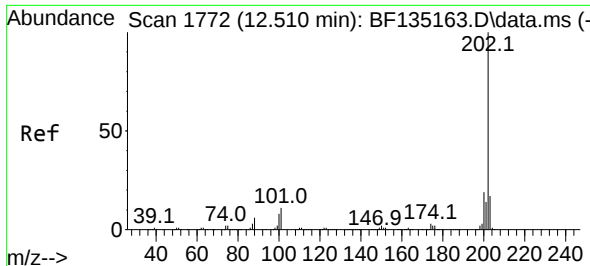
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#71
Phenanthrene
Concen: 2.286 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

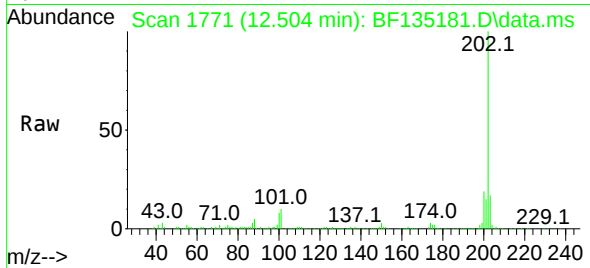
Tgt Ion:178 Resp: 36502
Ion Ratio Lower Upper
178 100
176 20.2 15.6 23.4
179 16.5 12.0 18.0





#75
Fluoranthene
Concen: 5.408 ng
RT: 12.504 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



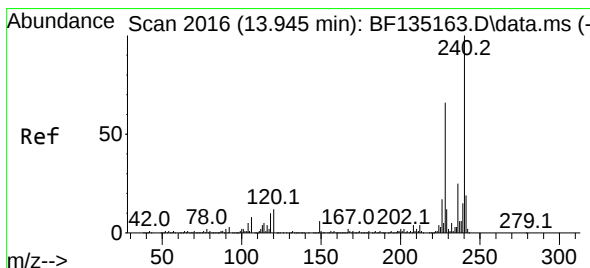
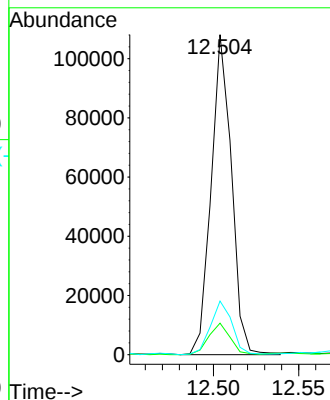
Tgt Ion:202 Resp: 8997
Ion Ratio Lower Upper
202 100
101 9.8 0.0 31.3
203 16.7 0.0 37.4

Manual Integrations
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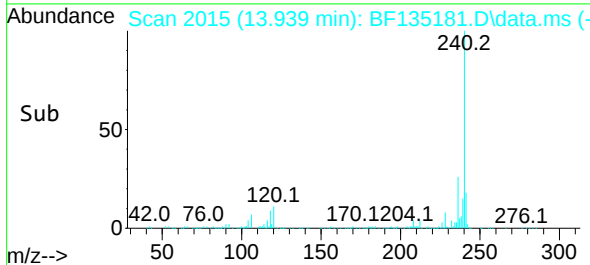
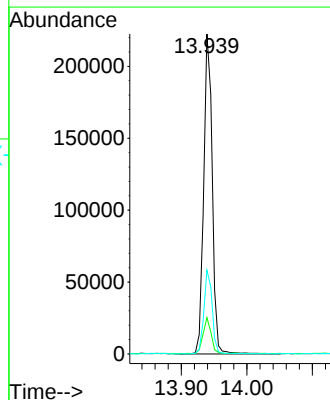
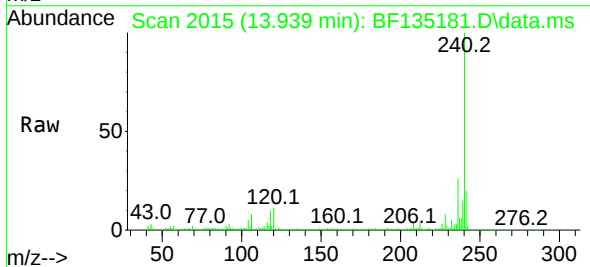
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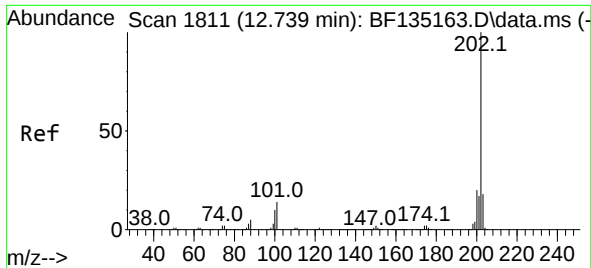
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

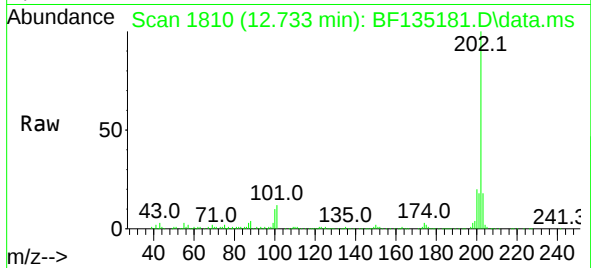
Tgt Ion:240 Resp: 202977
Ion Ratio Lower Upper
240 100
120 11.4 9.4 14.2
236 26.2 19.8 29.8





#78
Pyrene
Concen: 4.416 ng
RT: 12.733 min Scan# 1810
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



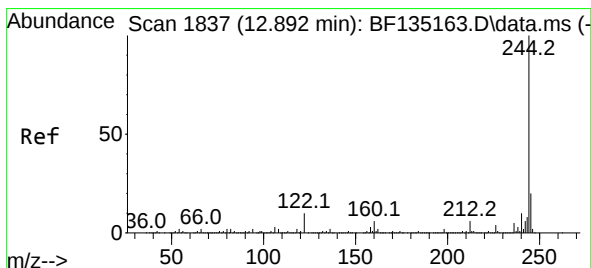
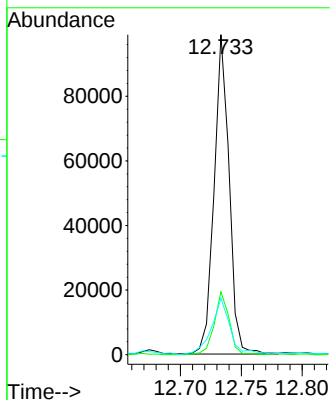
Tgt Ion:202 Resp: 85338
Ion Ratio Lower Upper
202 100
200 19.6 16.2 24.2
203 17.6 14.2 21.4

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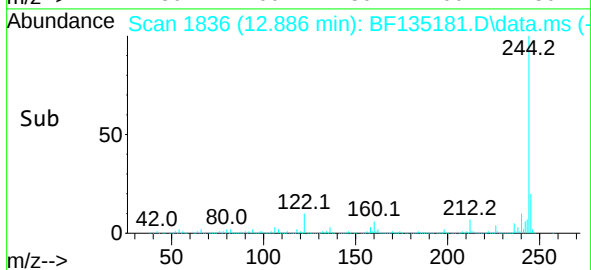
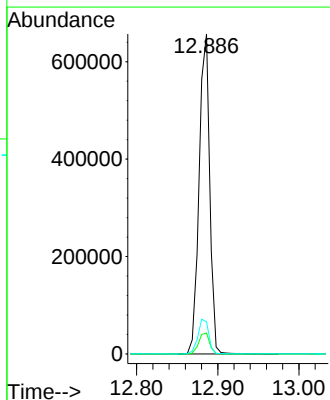
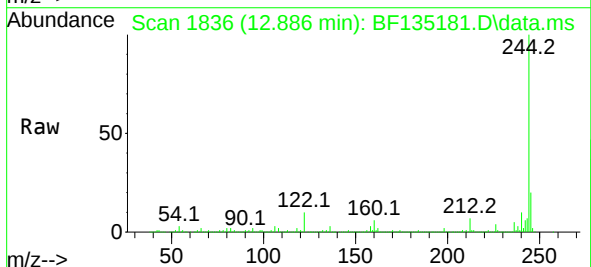
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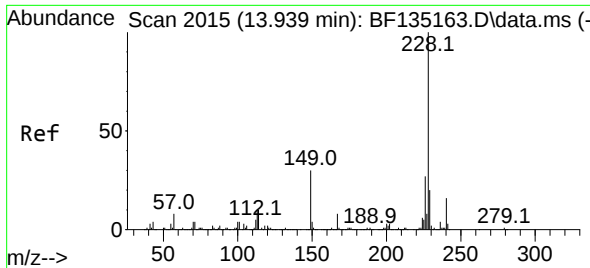
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#79
Terphenyl-d14
Concen: 45.644 ng
RT: 12.886 min Scan# 1836
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

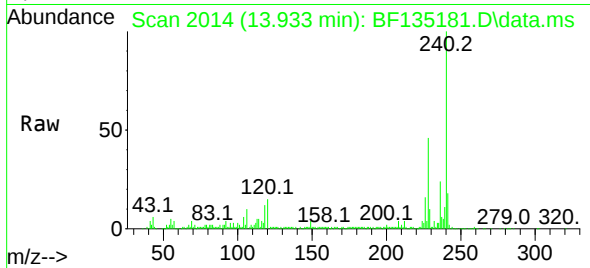
Tgt Ion:244 Resp: 597644
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 10.0 7.9 11.9





#81
Benzo(a)anthracene
Concen: 3.453 ng m
RT: 13.933 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



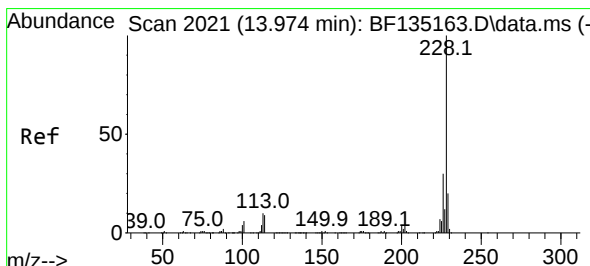
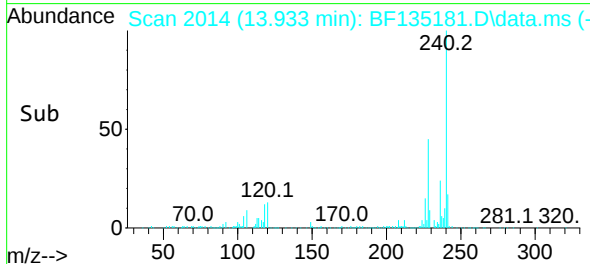
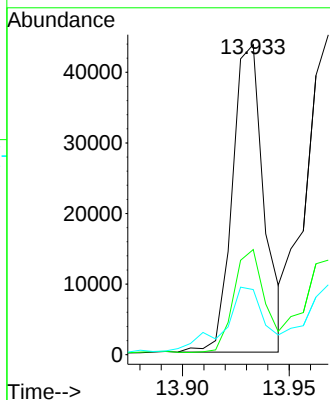
Tgt Ion:228 Resp: 45254
Ion Ratio Lower Upper
228 100
226 33.9 21.7 32.5
229 21.0 15.8 23.8

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Reviewed By :Yogesh
Patel

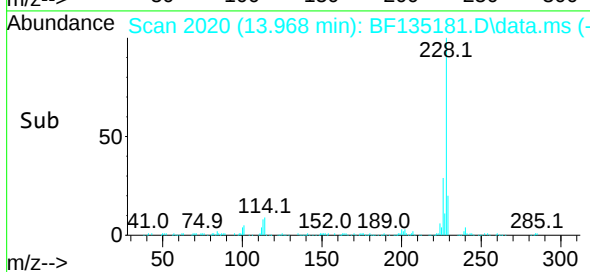
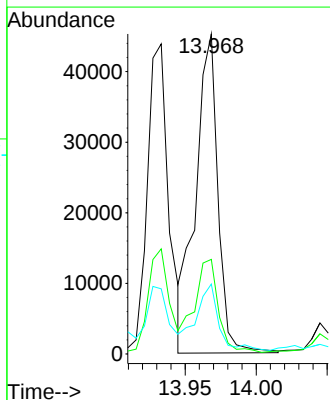
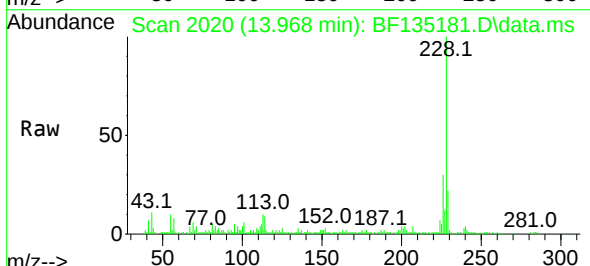
09/13/2023
Supervised By :mohammad
ahmed

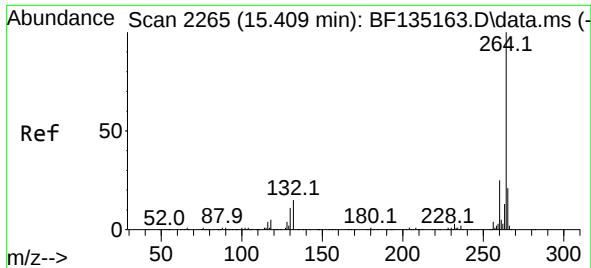
09/13/2023



#83
Chrysene
Concen: 3.800 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

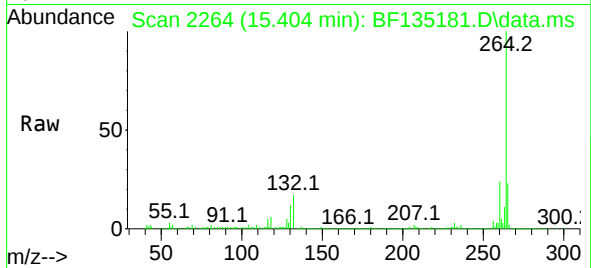
Tgt Ion:228 Resp: 49515
Ion Ratio Lower Upper
228 100
226 29.6 24.3 36.5
229 21.9 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.404 min Scan# 2192
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



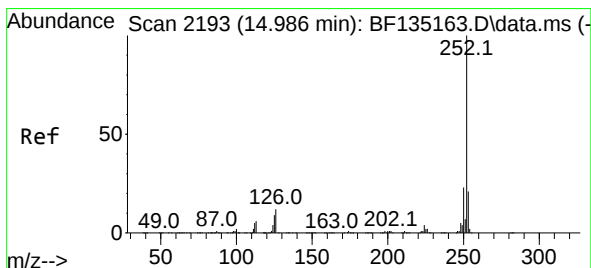
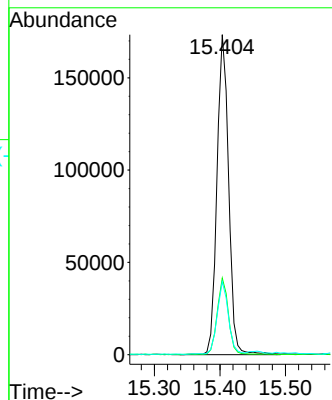
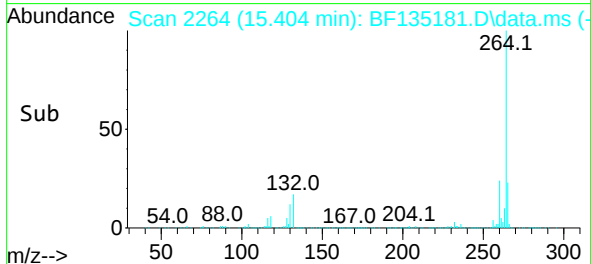
Tgt Ion:264 Resp: 21386
Ion Ratio Lower Upper
264 100
260 23.9 19.8 29.6
265 22.8 17.0 25.4

Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel

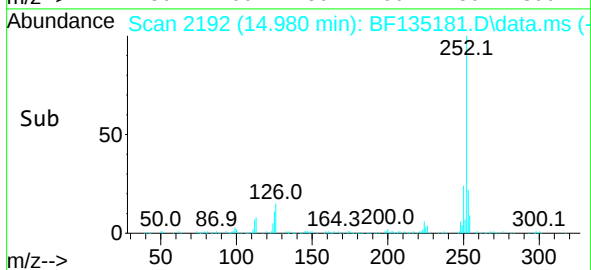
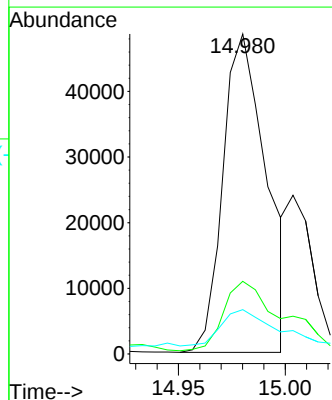
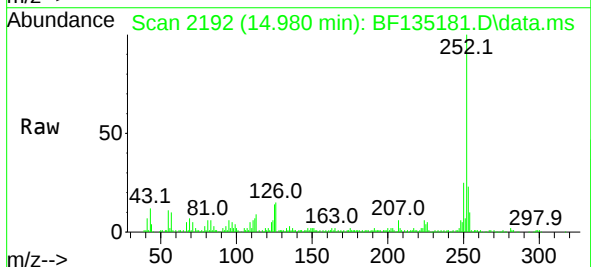
09/13/2023
Supervised By :mohammad
ahmed

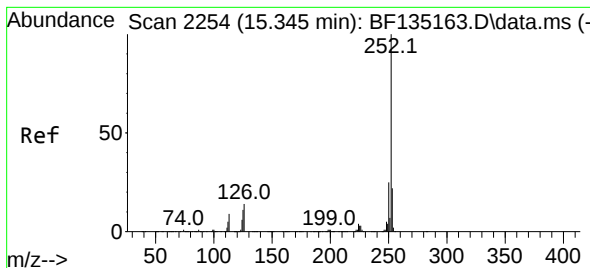
09/13/2023



#88
Benzo(b)fluoranthene
Concen: 5.933 ng m
RT: 14.980 min Scan# 2192
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Tgt Ion:252 Resp: 68691
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 13.8 7.1 10.7#





#90

Benzo(a)pyrene

Concen: 4.009 ng

RT: 15.339 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135181.D

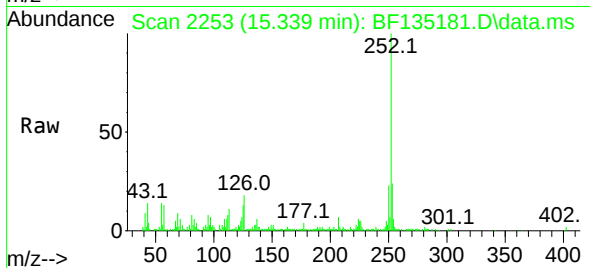
Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



Tgt Ion: 252 Resp: 44259

Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	12.5	9.2	13.8

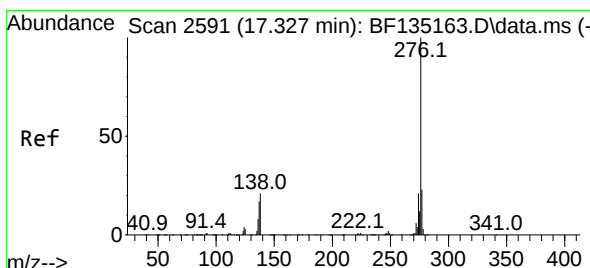
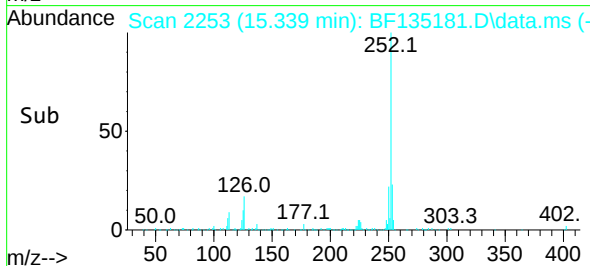
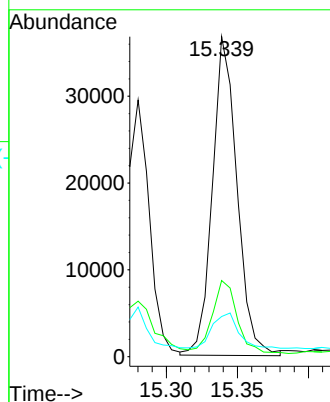
Manual Integrations
APPROVED

Reviewed By : Yogesh
Patel

09/13/2023

Supervised By : mohammad
ahmed

09/13/2023



#92

Benzo(g,h,i)perylene

Concen: 2.272 ng

RT: 17.315 min Scan# 2589

Delta R.T. -0.012 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Tgt Ion: 276 Resp: 27226

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.8	28.2
138	21.6	16.9	25.3

