

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082024\
 Data File : BM047282.D
 Acq On : 20 Aug 2024 22:54
 Operator : RC/JU
 Sample : P3652-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIVONIA-SOIL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 08/21/2024
 Supervised By :mohammad ahmed 08/22/2024

Quant Time: Aug 21 02:50:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Aug 11 23:47:58 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.358	152	312401	20.000	ng	-0.02
21) Naphthalene-d8	10.110	136	1173929	20.000	ng	-0.02
39) Acenaphthene-d10	14.016	164	750515	20.000	ng	-0.02
64) Phenanthrene-d10	16.780	188	1466462	20.000	ng	-0.01
76) Chrysene-d12	21.021	240	1120664	20.000	ng	-0.01
86) Perylene-d12	23.715	264	1172515	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.016	112	1787400	102.234	ng	0.00
7) Phenol-d6	6.575	99	2372286	98.473	ng	-0.01
23) Nitrobenzene-d5	8.505	82	1605354	68.858	ng	-0.02
42) 2,4,6-Tribromophenol	15.528	330	948634	109.009	ng	-0.01
45) 2-Fluorobiphenyl	12.628	172	3602771	74.048	ng	-0.02
79) Terphenyl-d14	19.451	244	4718156	90.213	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	16.822	178	353347	4.801	ng	99
75) Fluoranthene	18.857	202	765144	8.548	ng	99
78) Pyrene	19.221	202	771573	9.642	ng	99
81) Benzo(a)anthracene	21.004	228	369486	4.966	ng	97
83) Chrysene	21.057	228	352897	5.000	ng	98
87) Indeno(1,2,3-cd)pyrene	26.697	276	216314	2.854	ng	95
88) Benzo(b)fluoranthene	22.874	252	432918	6.217	ng	98
89) Benzo(k)fluoranthene	22.921	252	141862m	2.157	ng	
90) Benzo(a)pyrene	23.586	252	313832	5.203	ng	97
92) Benzo(g,h,i)perylene	27.627	276	223763	3.514	ng	97

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

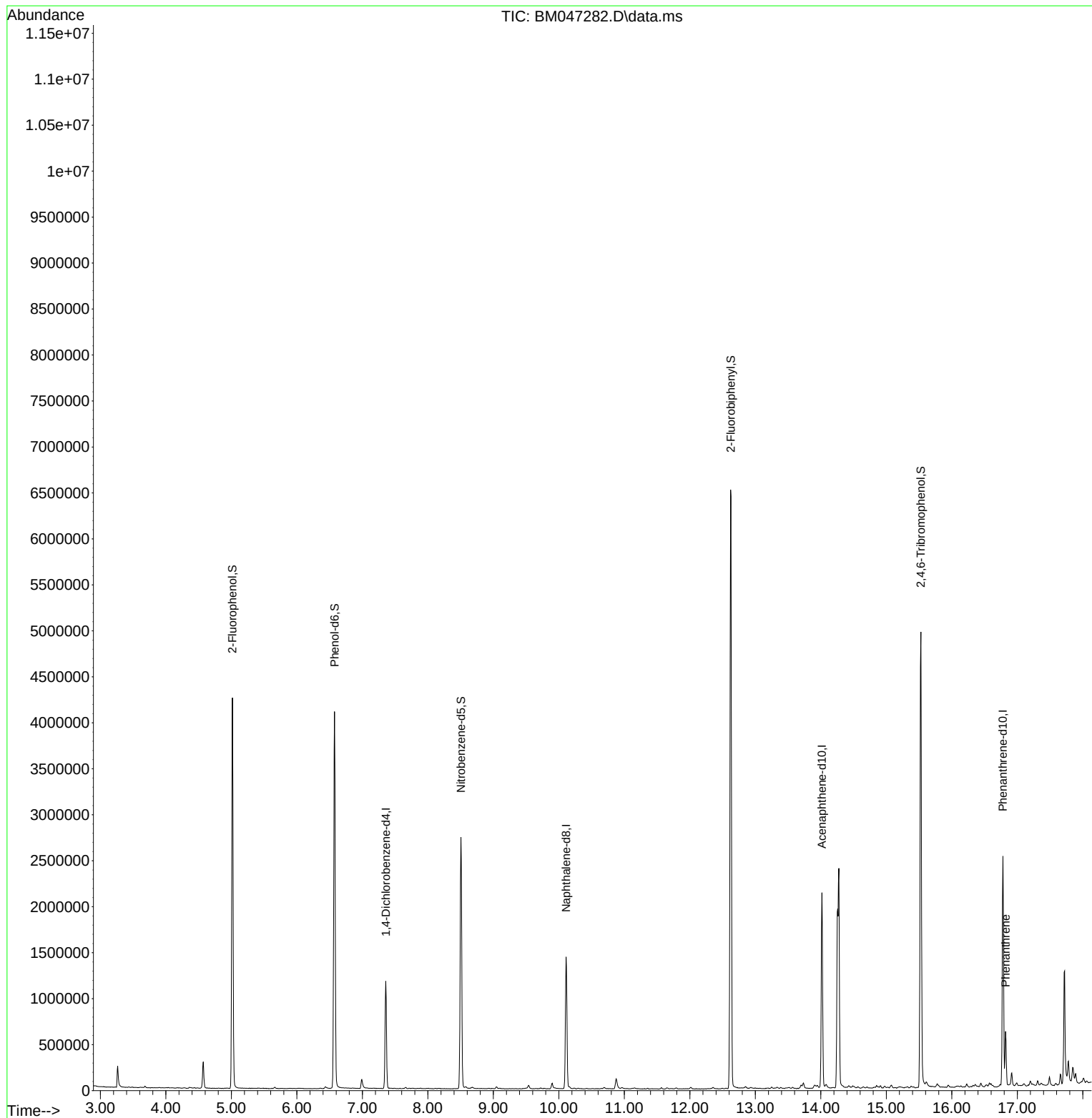
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082024\
Data File : BM047282.D
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Operator : RC/JU
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ALS Vial : 11 Sample Multiplier: 1

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Quant Time: Aug 21 02:50:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Aug 11 23:47:58 2024
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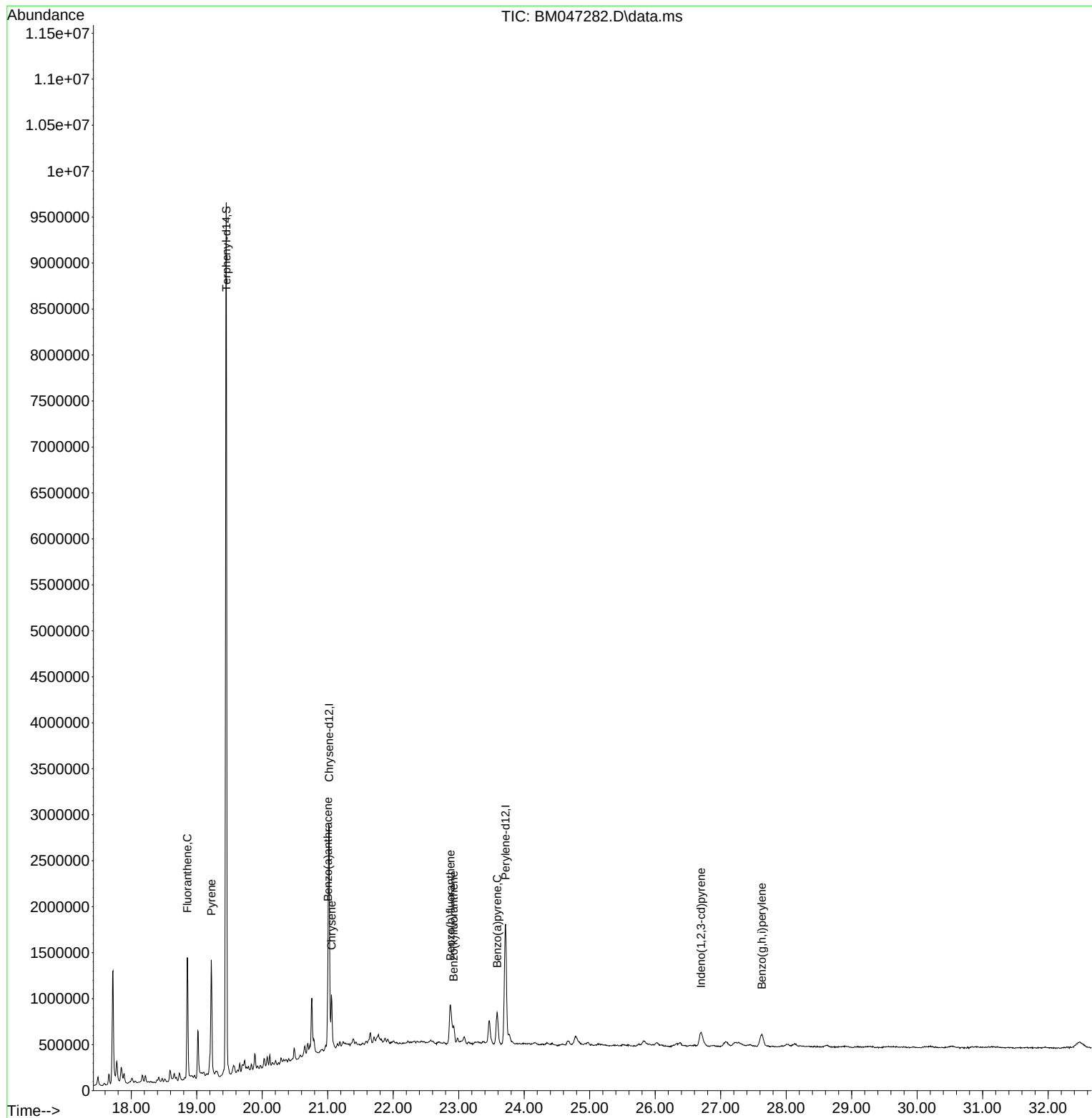
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082024\
Data File : BM047282.D
Acq On : 20 Aug 2024 22:54
Operator : RC/JU
Sample : P3652-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

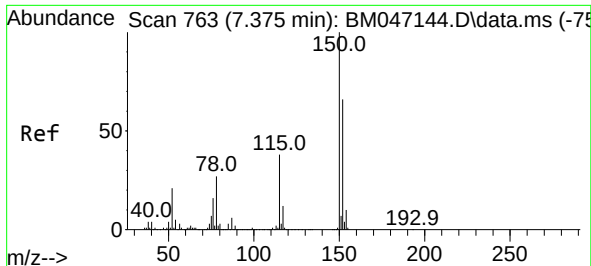
Instrument :
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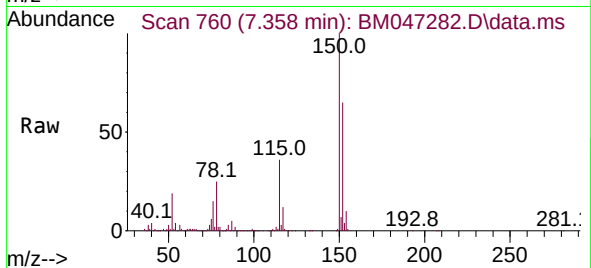
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.358 min Scan# 70
Delta R.T. -0.017 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

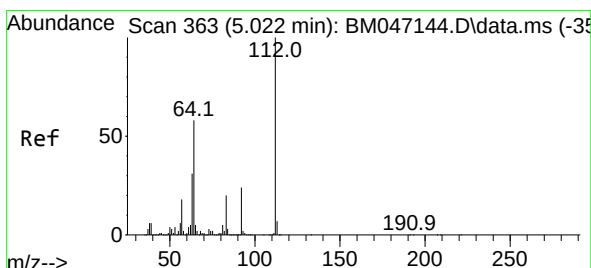
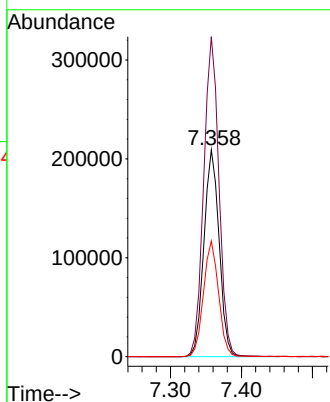
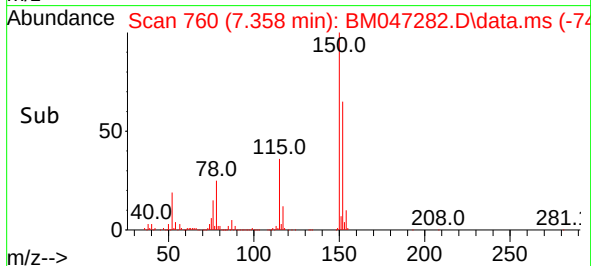
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOIL



Tgt Ion:152 Resp: 31240
Ion Ratio Lower Upper
152 100
150 154.6 120.5 180.7
115 55.8 45.5 68.3

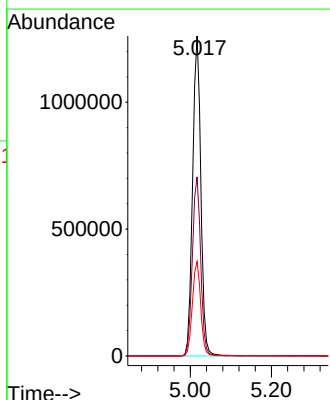
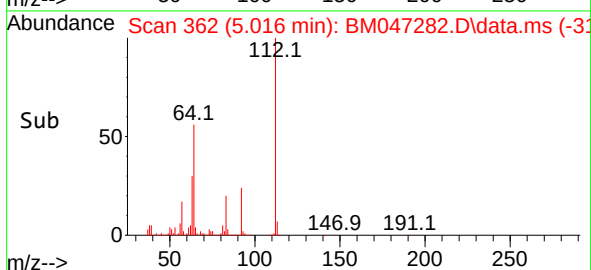
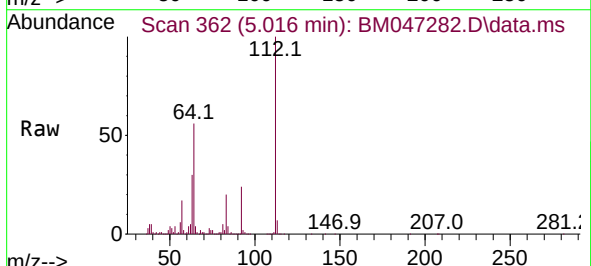
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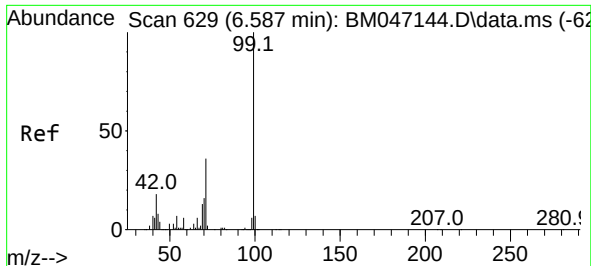
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#5
2-Fluorophenol
Concen: 102.234 ng
RT: 5.016 min Scan# 362
Delta R.T. -0.006 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

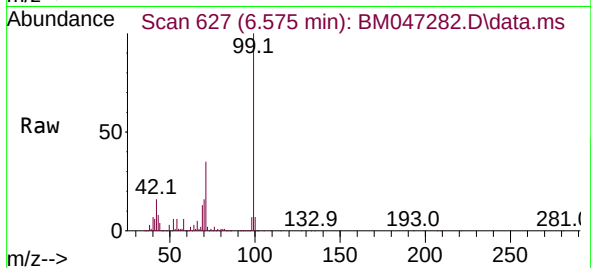
Tgt Ion:112 Resp: 1787400
Ion Ratio Lower Upper
112 100
64 55.9 46.7 70.1
63 29.5 24.8 37.2





#7
Phenol-d6
Concen: 98.473 ng
RT: 6.575 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

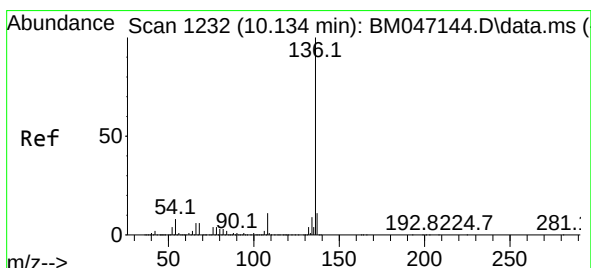
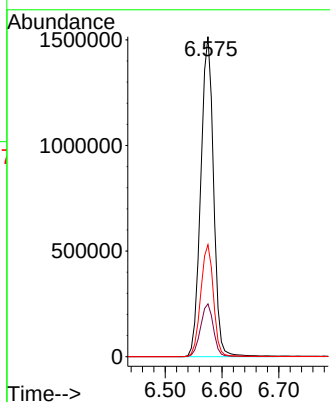
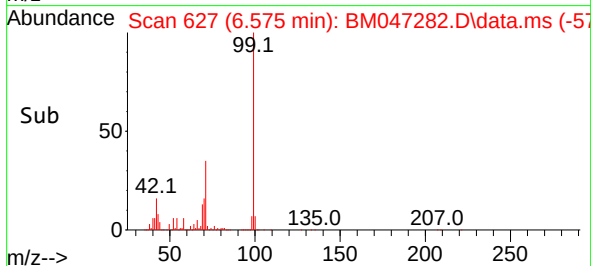
Instrument :
BNA_M
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Tgt Ion: 99 Resp: 2372280
Ion Ratio Lower Upper
99 100
42 16.5 14.1 21.1
71 35.0 28.5 42.7

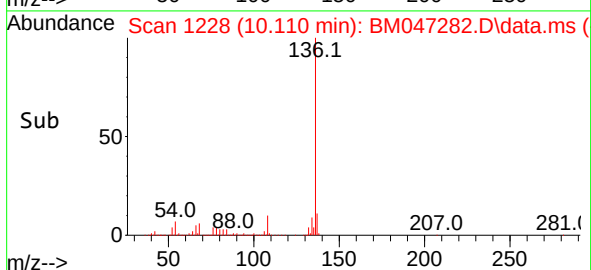
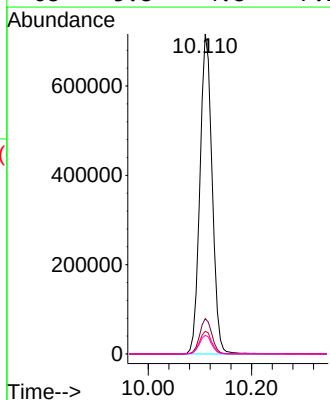
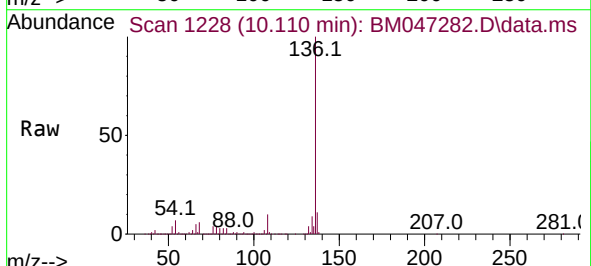
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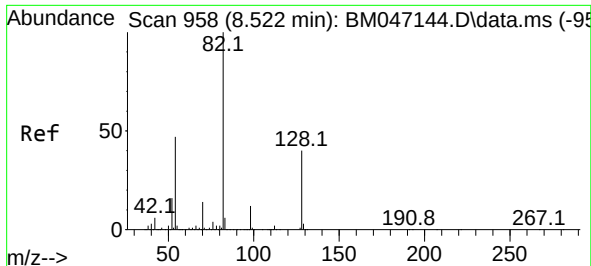
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.110 min Scan# 1228
Delta R.T. -0.023 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

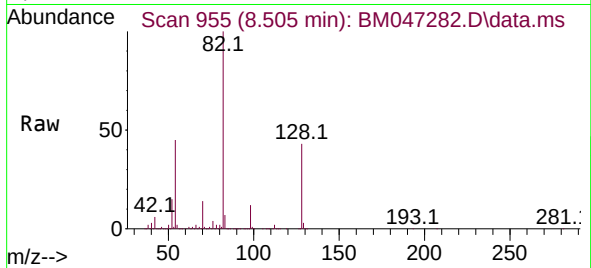
Tgt Ion:136 Resp: 1173929
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 7.1 6.0 9.0
68 5.8 4.8 7.2





#23
Nitrobenzene-d5
Concen: 68.858 ng
RT: 8.505 min Scan# 91
Delta R.T. -0.017 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

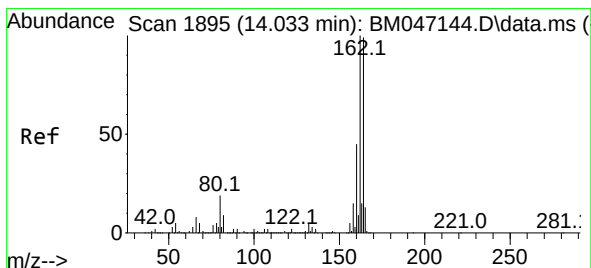
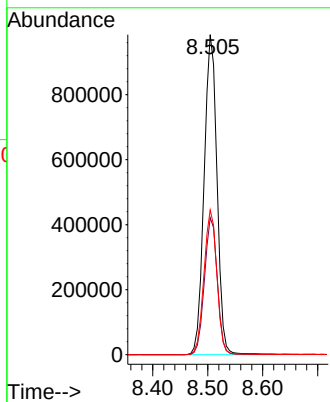
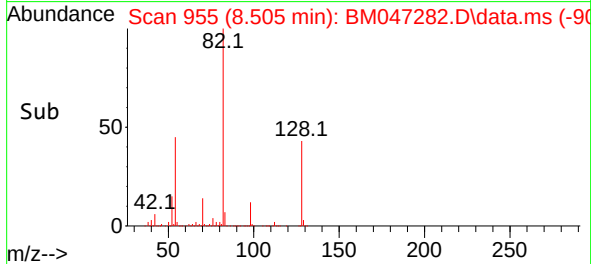
Instrument :
BNA_M
ClientSampleId :
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Tgt Ion: 82 Resp: 1605354
Ion Ratio Lower Upper
82 100
128 42.8 32.3 48.5
54 45.3 37.4 56.2

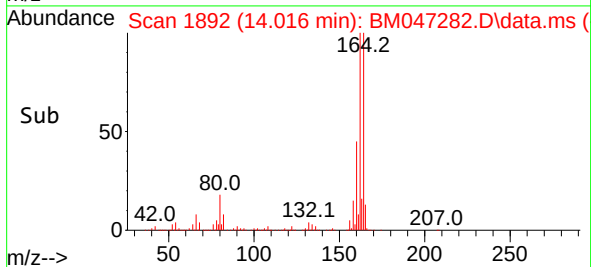
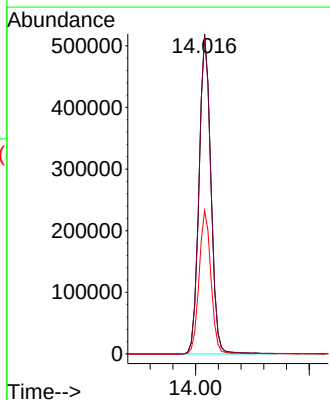
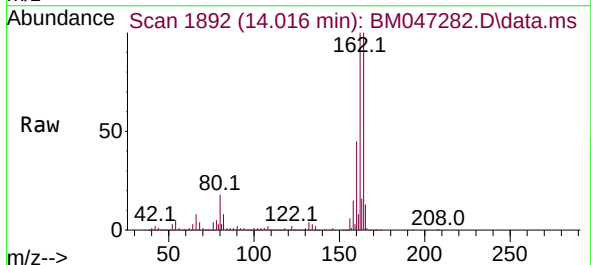
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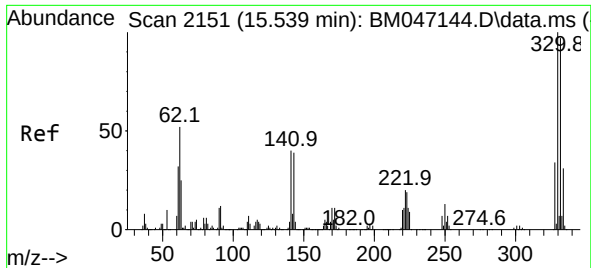
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.016 min Scan# 1892
Delta R.T. -0.018 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

Tgt Ion:164 Resp: 750515
Ion Ratio Lower Upper
164 100
162 99.6 80.7 121.1
160 44.8 36.0 54.0





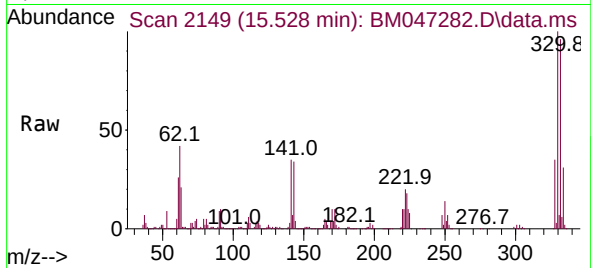
#42
2,4,6-Tribromophenol
Concen: 109.009 ng
RT: 15.528 min Scan# 2151
Delta R.T. -0.012 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOIL

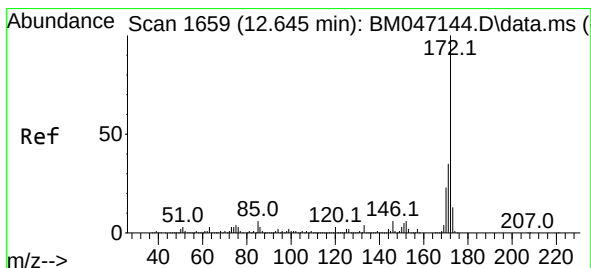
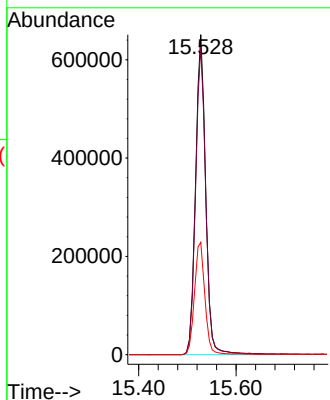
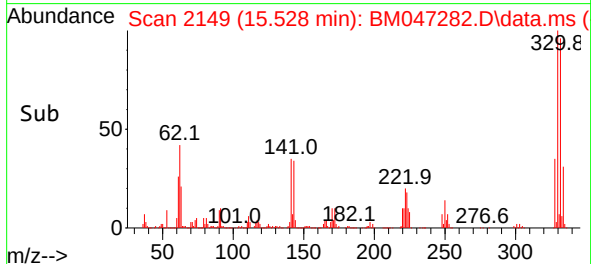


Tgt Ion:330 Resp: 948634
Ion Ratio Lower Upper
330 100
332 95.8 77.4 116.2
141 35.8 31.6 47.4

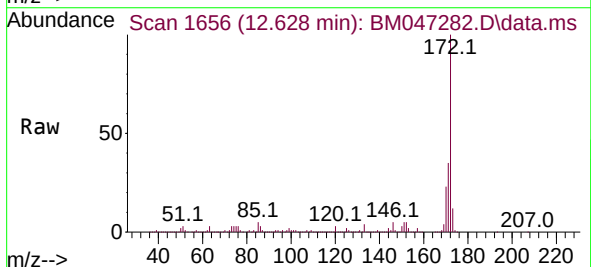
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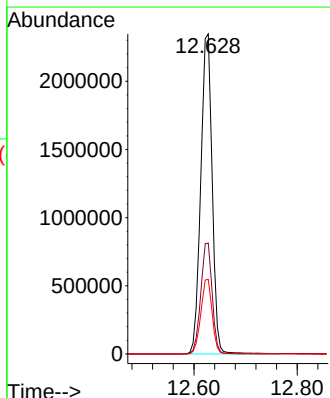
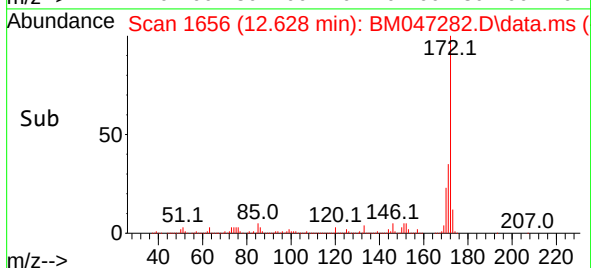
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

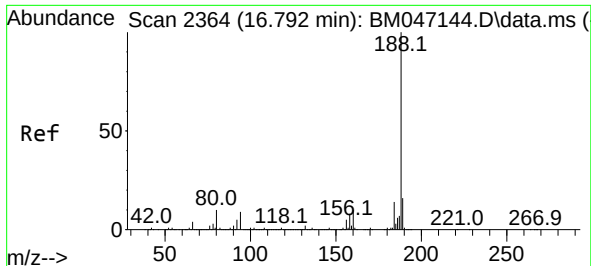


#45
2-Fluorobiphenyl
Concen: 74.048 ng
RT: 12.628 min Scan# 1656
Delta R.T. -0.017 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54



Tgt Ion:172 Resp: 3602771
Ion Ratio Lower Upper
172 100
171 34.6 27.8 41.6
170 23.3 18.7 28.1





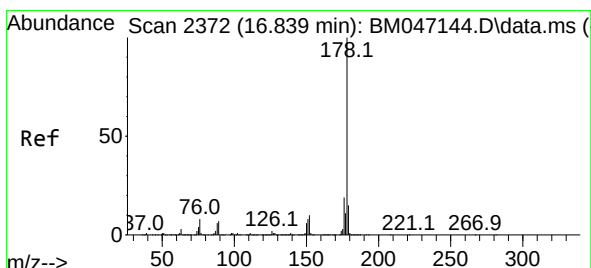
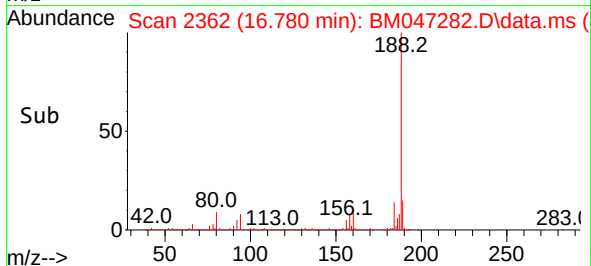
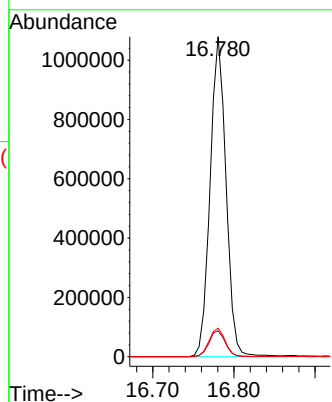
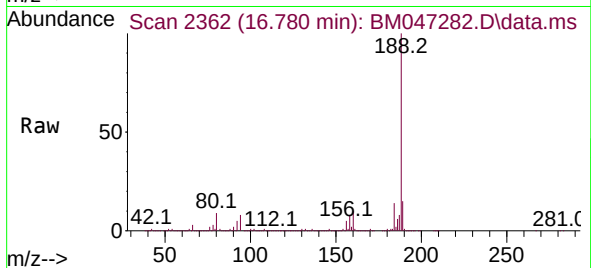
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.780 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOIL

Tgt Ion:188 Resp: 1466462
Ion Ratio Lower Upper
188 100
94 8.1 7.0 10.6
80 8.9 8.0 12.0

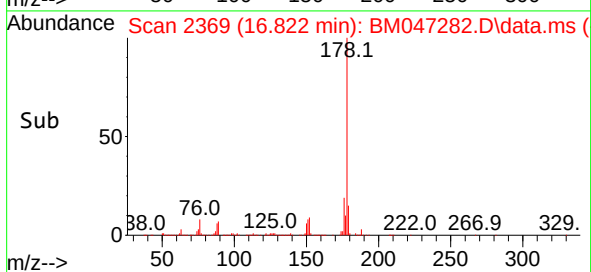
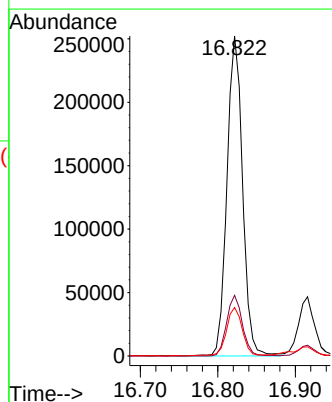
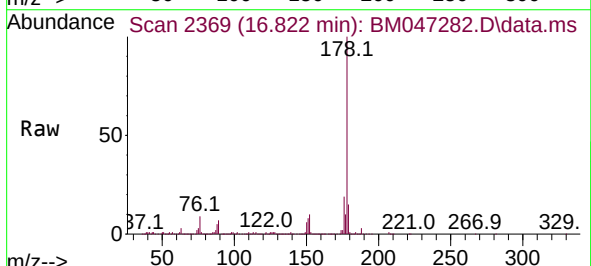
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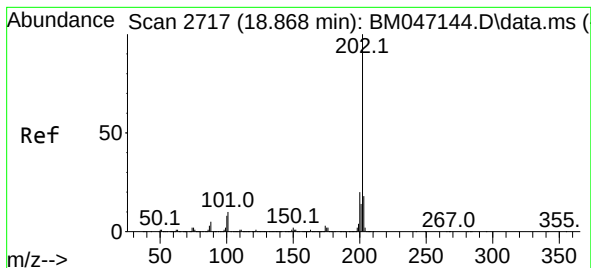
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#71
Phenanthrene
Concen: 4.801 ng
RT: 16.822 min Scan# 2369
Delta R.T. -0.017 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

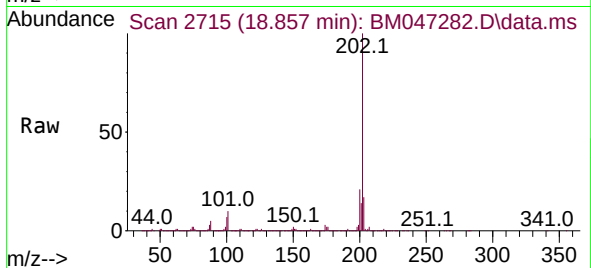
Tgt Ion:178 Resp: 353347
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.2 12.4 18.6





#75
Fluoranthene
Concen: 8.548 ng
RT: 18.857 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

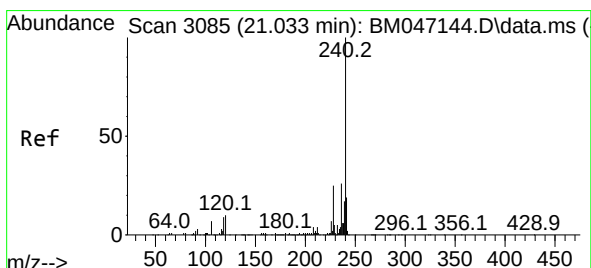
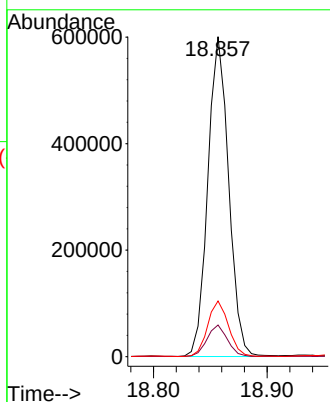
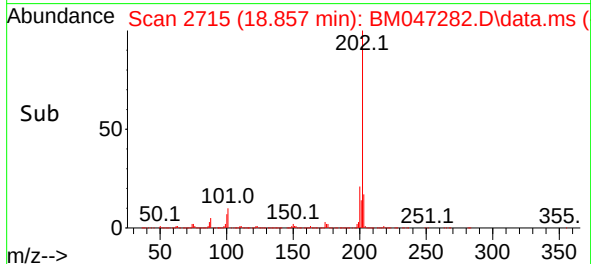
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOIL



Tgt Ion:202 Resp: 765144
Ion Ratio Lower Upper
202 100
101 9.9 0.0 30.2
203 17.4 0.0 37.6

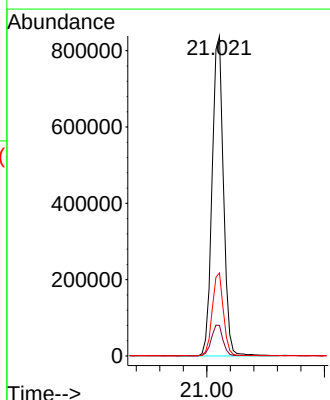
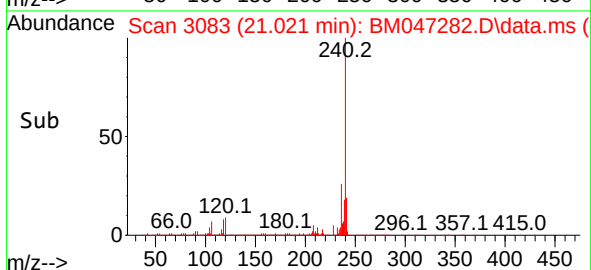
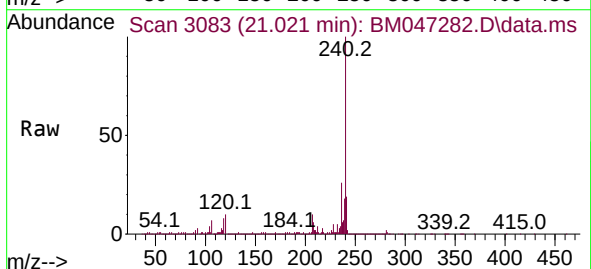
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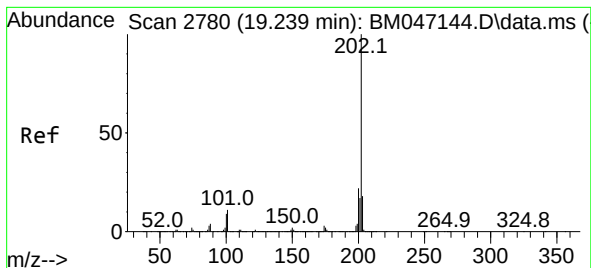
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.021 min Scan# 3083
Delta R.T. -0.012 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

Tgt Ion:240 Resp: 1120664
Ion Ratio Lower Upper
240 100
120 9.5 8.2 12.2
236 25.9 20.6 30.8





#78

Pyrene

Concen: 9.642 ng

RT: 19.221 min Scan# 21

Delta R.T. -0.017 min

Lab File: BM047282.D

Acq: 20 Aug 2024 22:54

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOIL

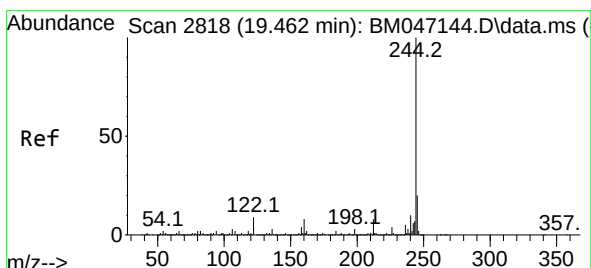
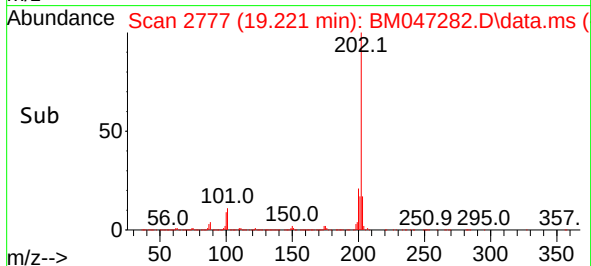
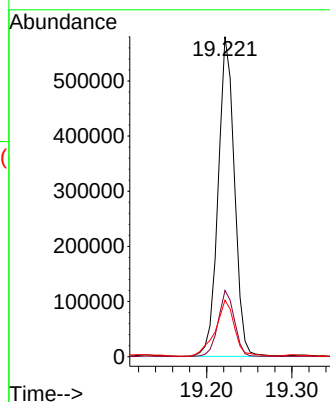
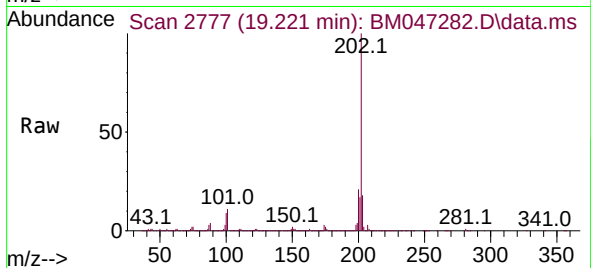
Tgt Ion:202 Resp: 77157

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.2	25.8
203	17.7	14.2	21.2

Manual Integrations

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Supervised By :mohammad ahmed 08/22/2024



#79

Terphenyl-d14

Concen: 90.213 ng

RT: 19.451 min Scan# 2816

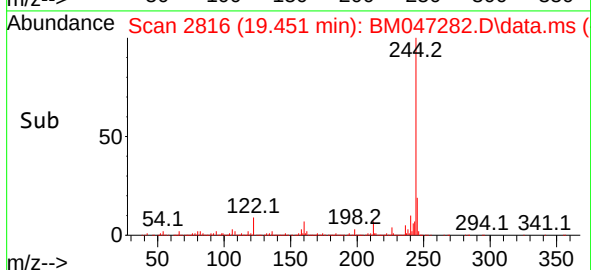
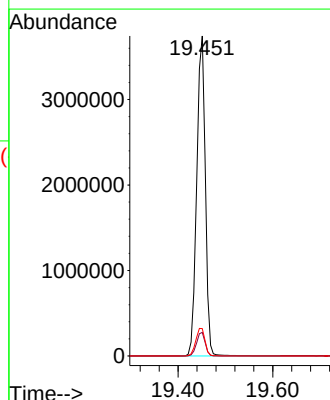
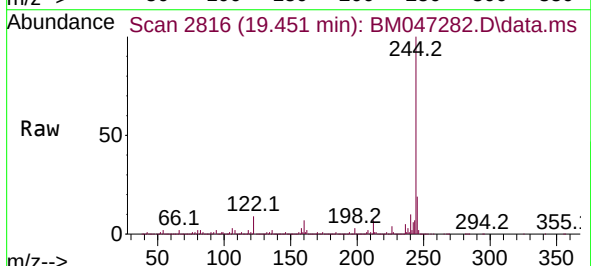
Delta R.T. -0.012 min

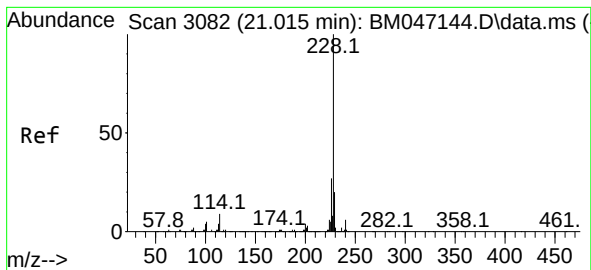
Lab File: BM047282.D

Acq: 20 Aug 2024 22:54

Tgt Ion:244 Resp: 4718156

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.2	9.4
122	8.5	7.1	10.7





#81

Benzo(a)anthracene

Concen: 4.966 ng

RT: 21.004 min Scan# 3082

Delta R.T. -0.012 min

Lab File: BM047282.D

Acq: 20 Aug 2024 22:54

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOIL

Tgt Ion:228 Resp: 369480

Ion Ratio Lower Upper

228 100

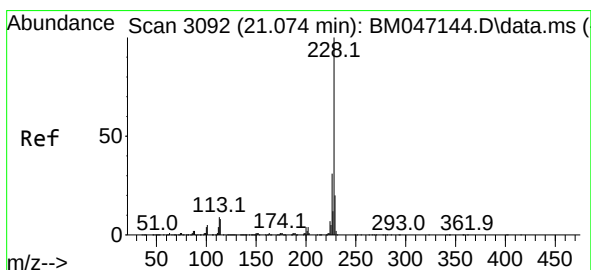
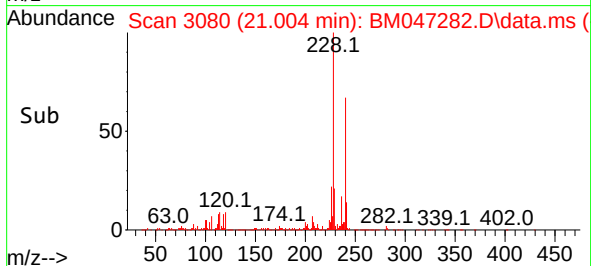
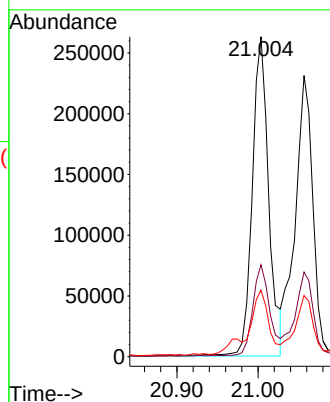
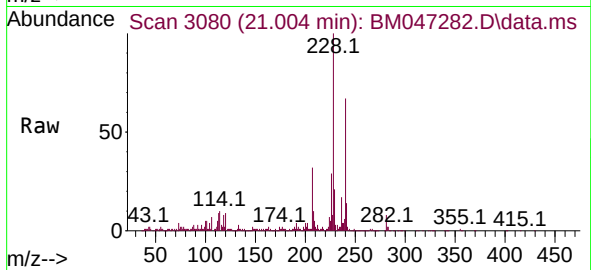
226 28.7 21.8 32.6

229 20.8 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#83

Chrysene

Concen: 5.000 ng

RT: 21.057 min Scan# 3089

Delta R.T. -0.017 min

Lab File: BM047282.D

Acq: 20 Aug 2024 22:54

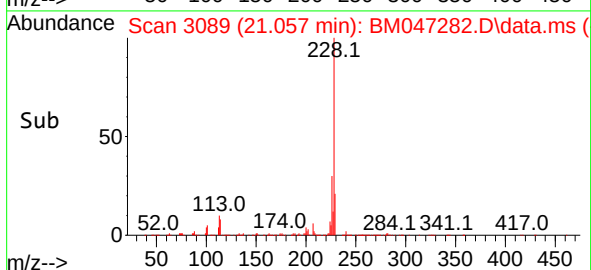
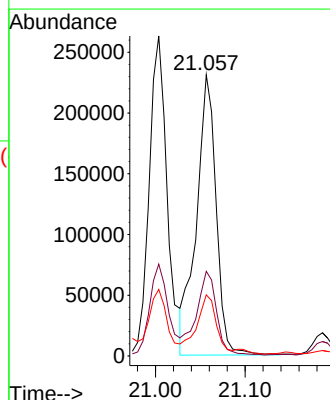
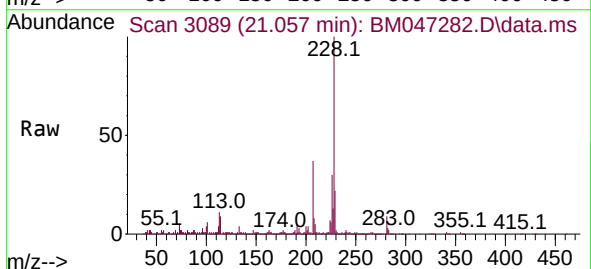
Tgt Ion:228 Resp: 352897

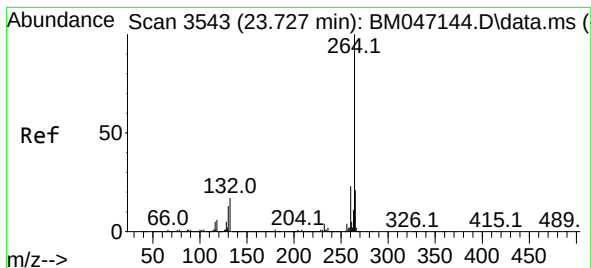
Ion Ratio Lower Upper

228 100

226 30.1 24.4 36.6

229 21.8 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.715 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM047282.D

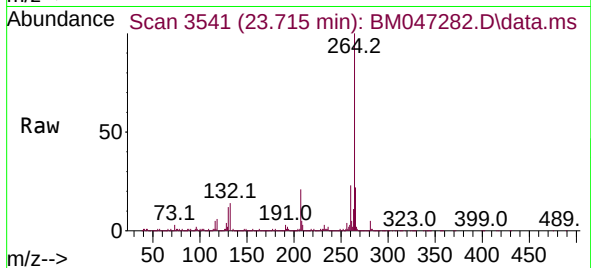
Acq: 20 Aug 2024 22:54

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOIL



Tgt Ion:264 Resp: 117251

Ion Ratio Lower Upper

264 100

260 22.9 18.5 27.7

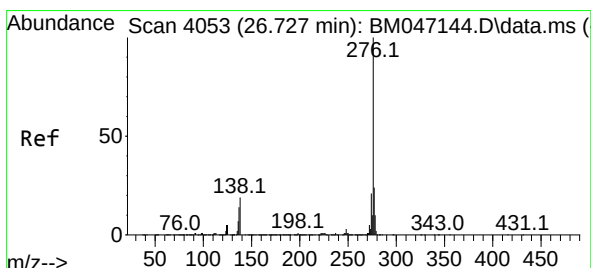
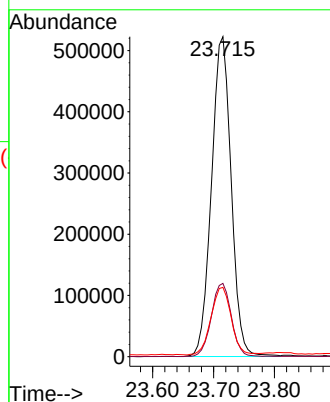
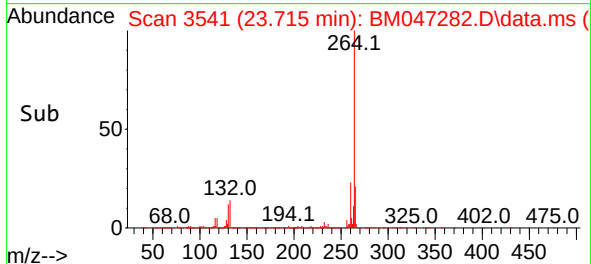
265 21.7 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.854 ng

RT: 26.697 min Scan# 4048

Delta R.T. -0.029 min

Lab File: BM047282.D

Acq: 20 Aug 2024 22:54

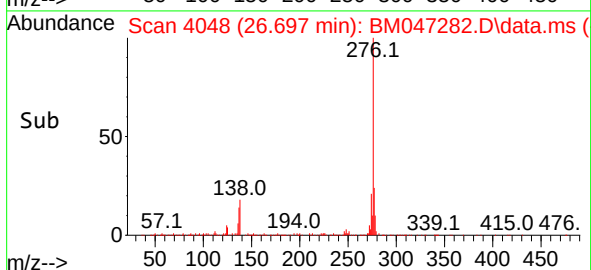
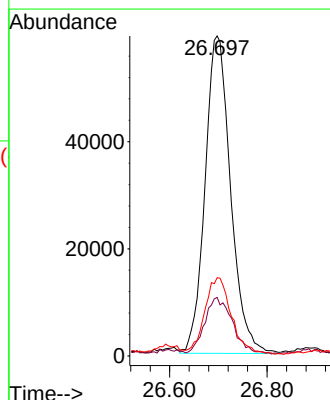
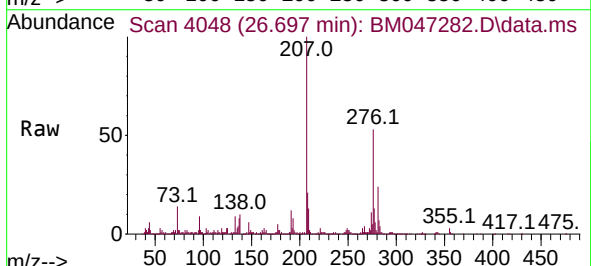
Tgt Ion:276 Resp: 216314

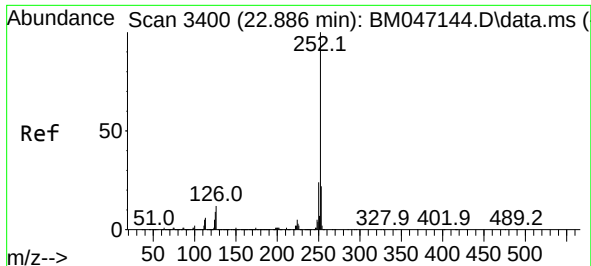
Ion Ratio Lower Upper

276 100

138 19.4 19.4 29.0

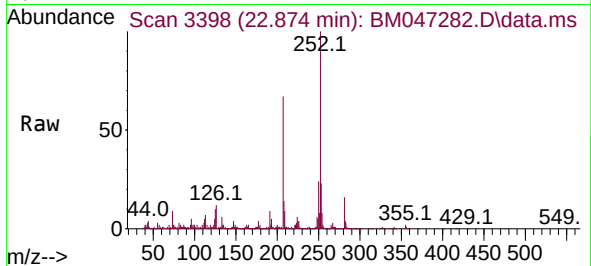
277 24.6 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 6.217 ng
RT: 22.874 min Scan# 31
Delta R.T. -0.012 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54

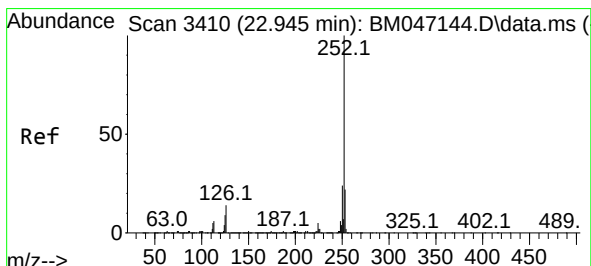
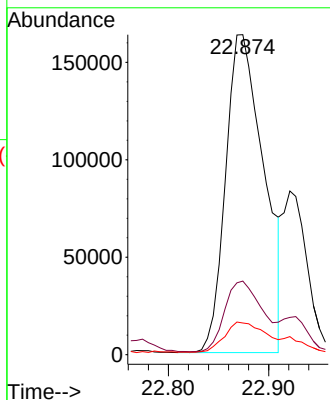
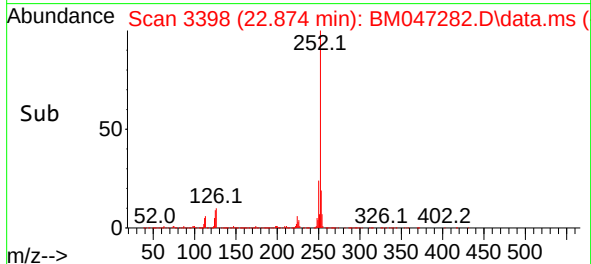
Instrument :
BNA_M
ClientSampleId :
LIVONIA-SOIL



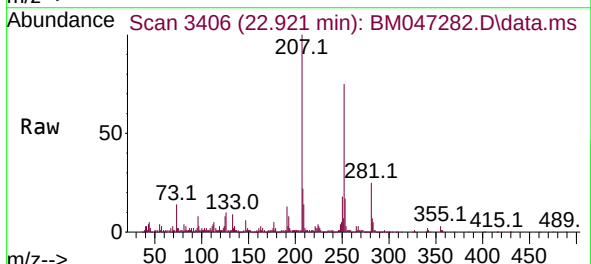
Tgt Ion:252 Resp: 432918
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.6
125 9.9 7.4 11.0

Manual Integrations
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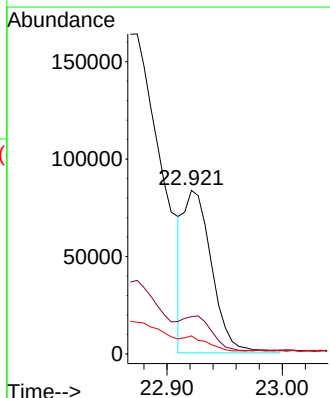
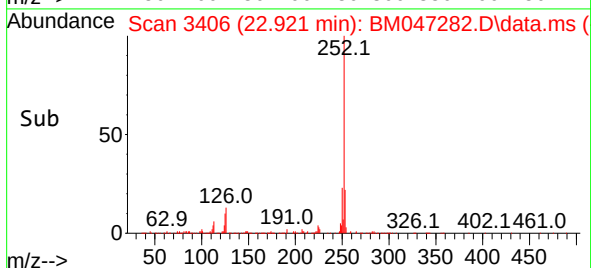
Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

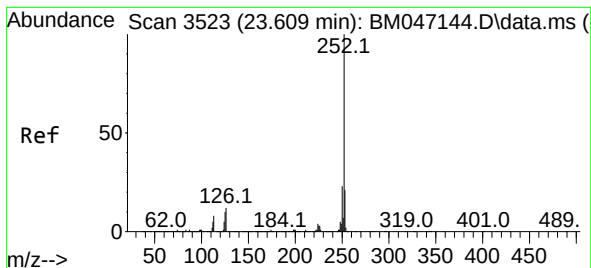


#89
Benzo(k)fluoranthene
Concen: 2.157 ng m
RT: 22.921 min Scan# 3406
Delta R.T. -0.023 min
Lab File: BM047282.D
Acq: 20 Aug 2024 22:54



Tgt Ion:252 Resp: 141862
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 11.0 7.4 11.2





#90

Benzo(a)pyrene

Concen: 5.203 ng

RT: 23.586 min Scan# 31383

Delta R.T. -0.023 min

Lab File: BM047282.D

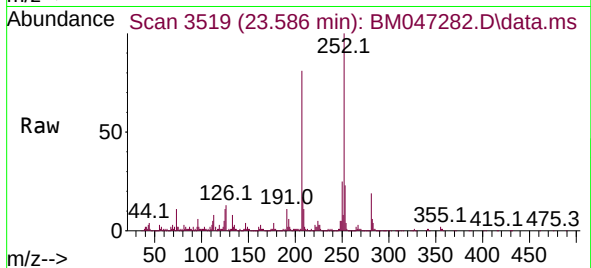
Acq: 20 Aug 2024 22:54

Instrument :

BNA_M

ClientSampleId :

LIVONIA-SOIL

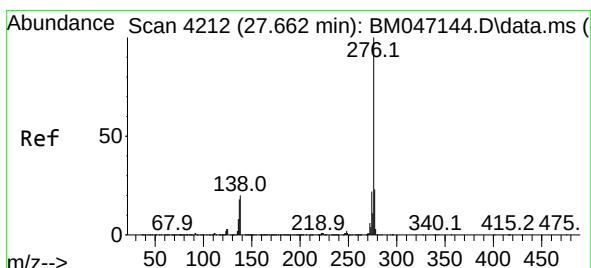
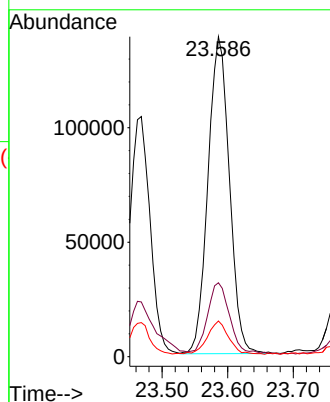
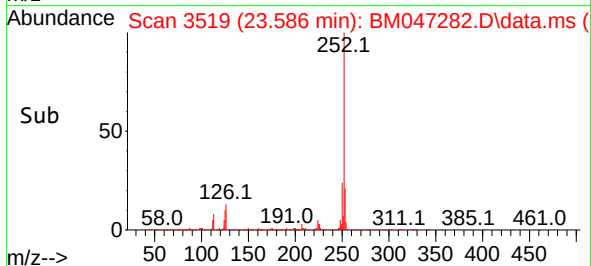


Tgt Ion:	252	Resp:	31383
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.1	25.7
125	11.2	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#92

Benzo(g,h,i)perylene

Concen: 3.514 ng

RT: 27.627 min Scan# 4206

Delta R.T. -0.035 min

Lab File: BM047282.D

Acq: 20 Aug 2024 22:54

Tgt Ion:	276	Resp:	223763
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.8	28.2
138	18.8	16.2	24.4

