

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140163.D
 Acq On : 30 Oct 2024 17:46
 Operator : RC/JU
 Sample : P4617-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Nov 01 02:17:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	86183	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	305744	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	142138	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	202228	20.000	ng	0.00
76) Chrysene-d12	14.080	240	174193	20.000	ng	0.03
86) Perylene-d12	15.598	264	176450	20.000	ng	0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	443034	80.476	ng	0.00
7) Phenol-d6	6.498	99	548519	76.930	ng	-0.01
23) Nitrobenzene-d5	7.439	82	363490	65.892	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	98098	73.785	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	581857	67.655	ng	-0.01
79) Terphenyl-d14	13.010	244	444127	41.546	ng	0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.781	152	84556	7.339	ng	99
58) Fluorene	10.475	166	29364	3.605	ng	# 92
71) Phenanthrene	11.439	178	161426	16.899	ng	100
72) Anthracene	11.492	178	88480	9.493	ng	98
75) Fluoranthene	12.633	202	453252	46.936	ng	99
78) Pyrene	12.869	202	517030	33.909	ng	99
81) Benzo(a)anthracene	14.068	228	387364m	34.161	ng	
83) Chrysene	14.104	228	308129	29.637	ng	96
87) Indeno(1,2,3-cd)pyrene	17.115	276	142277m	12.534	ng	
88) Benzo(b)fluoranthene	15.157	252	440227m	40.957	ng	
89) Benzo(k)fluoranthene	15.174	252	128222m	13.832	ng	
90) Benzo(a)pyrene	15.533	252	300577	33.985	ng	98
91) Dibenzo(a,h)anthracene	17.127	278	35517	3.751	ng	# 89
92) Benzo(g,h,i)perylene	17.580	276	124359	13.147	ng	98

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

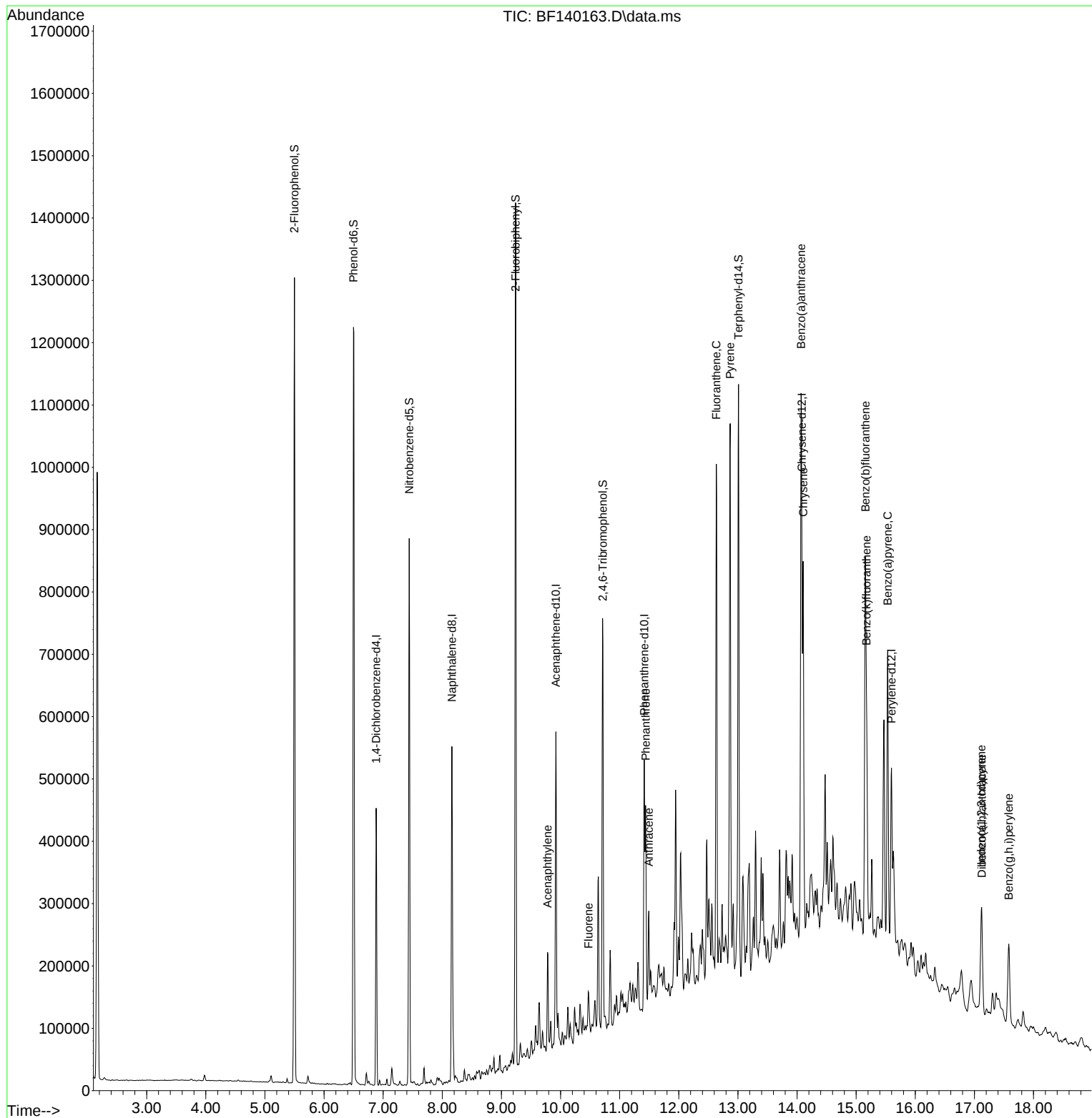
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
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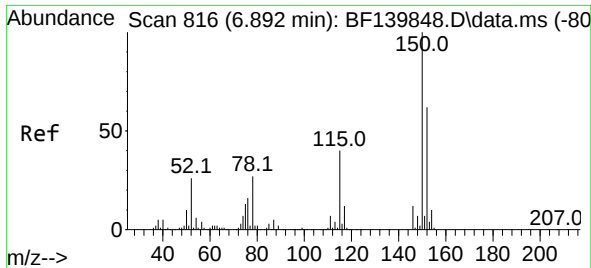
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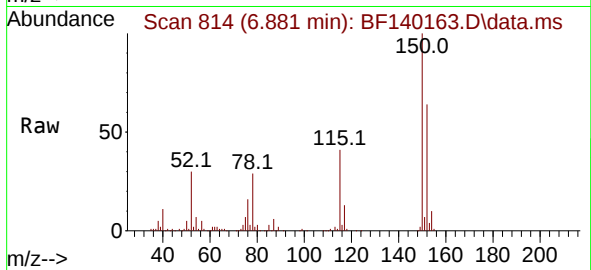
Quant Time: Nov 01 02:17:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 816
Delta R.T. -0.011 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

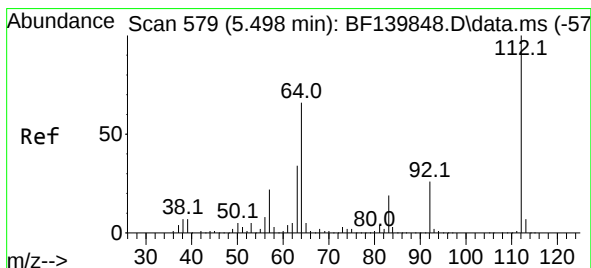
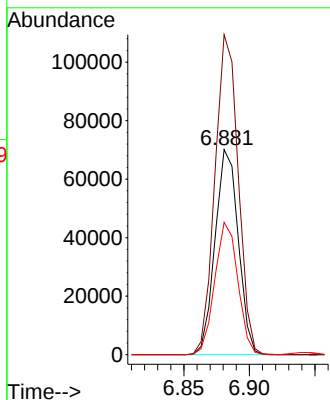
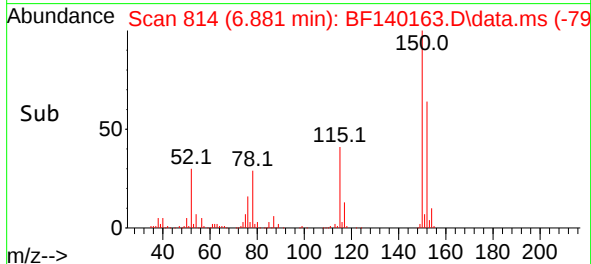
Instrument :
BNA_F
ClientSampleId :
RO-SOIL



Tgt Ion:152 Resp: 8618
Ion Ratio Lower Upper
152 100
150 156.0 130.2 195.2
115 64.5 51.4 77.2

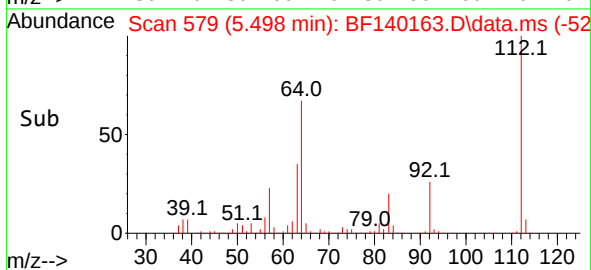
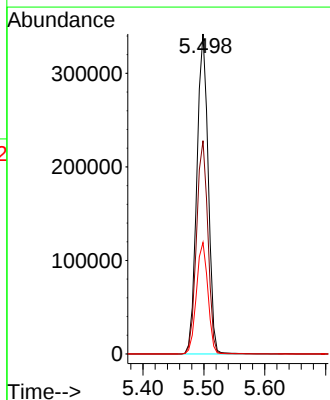
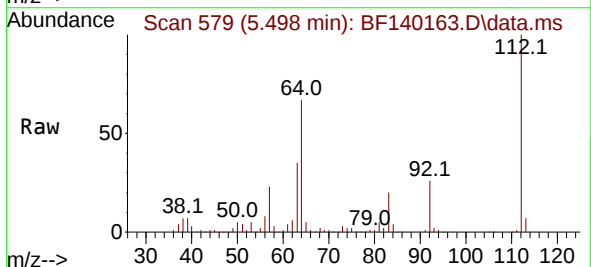
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#5
2-Fluorophenol
Concen: 80.476 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:112 Resp: 443034
Ion Ratio Lower Upper
112 100
64 66.6 53.0 79.6
63 34.9 27.0 40.4





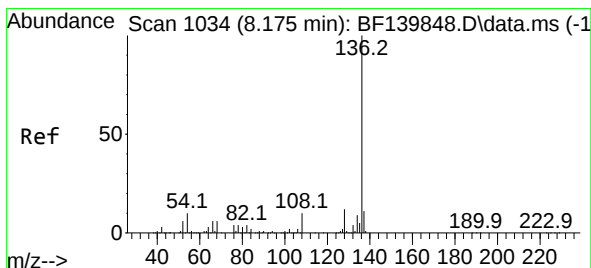
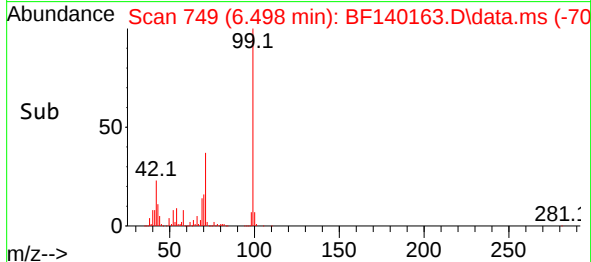
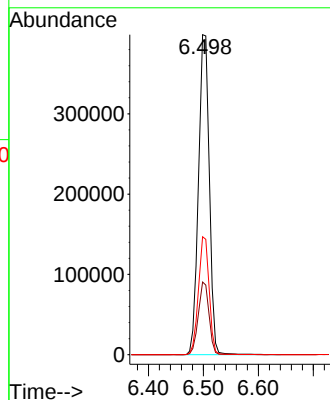
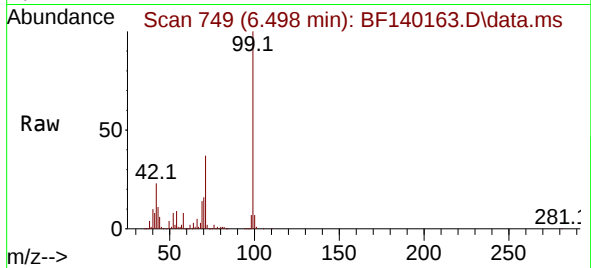
#7
Phenol-d6
Concen: 76.930 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion: 99 Resp: 548519
Ion Ratio Lower Upper
99 100
42 22.7 16.7 25.1
71 36.9 27.7 41.5

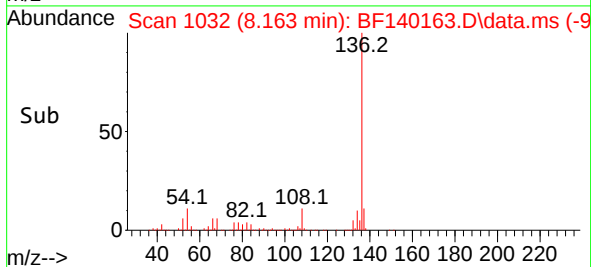
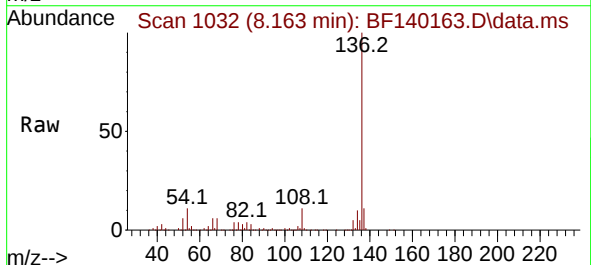
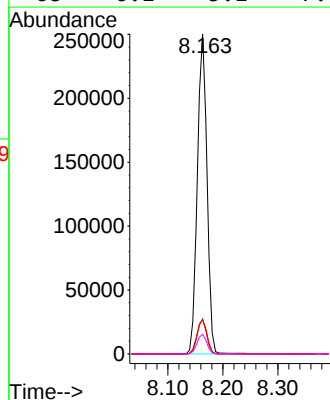
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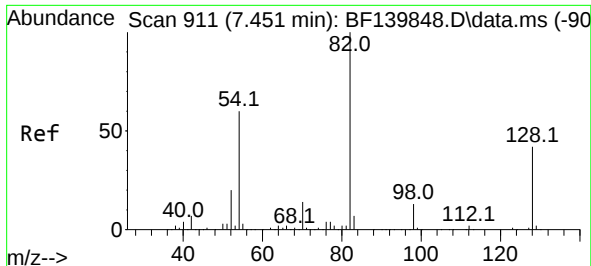
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:136 Resp: 305744
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 10.7 8.4 12.6
68 6.1 5.1 7.7





#23

Nitrobenzene-d5

Concen: 65.892 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF140163.D

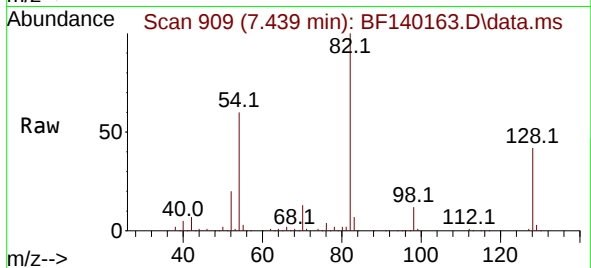
Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL



Tgt Ion: 82 Resp: 363490

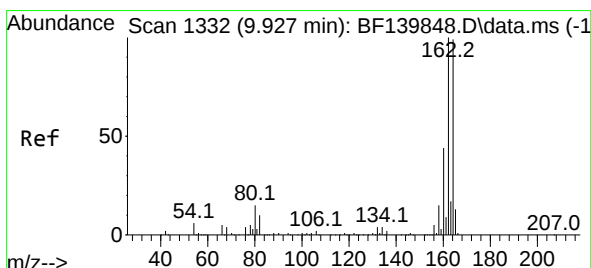
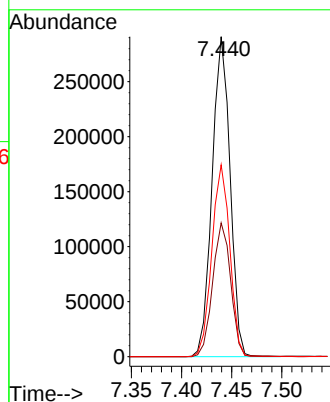
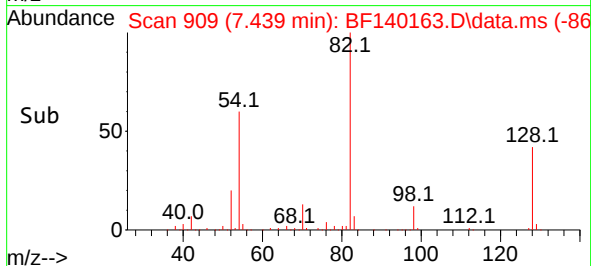
Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.4	50.0
54	59.9	47.8	71.8

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1331

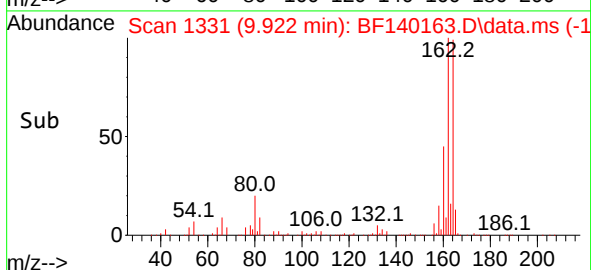
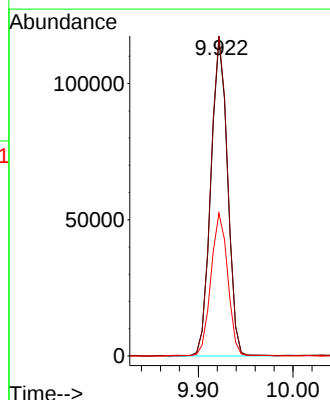
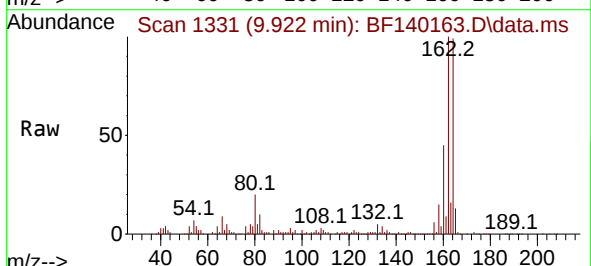
Delta R.T. -0.005 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Tgt Ion:164 Resp: 142138

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.0	121.4
160	45.1	35.4	53.0





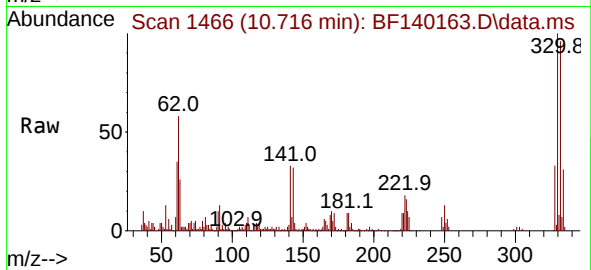
#42
2,4,6-Tribromophenol
Concen: 73.785 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL



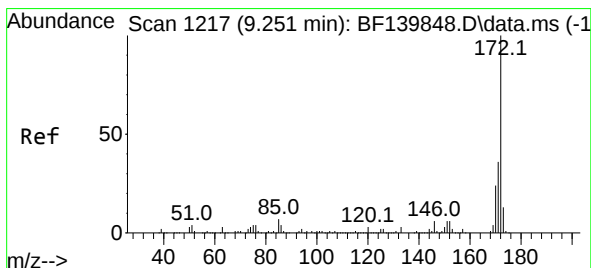
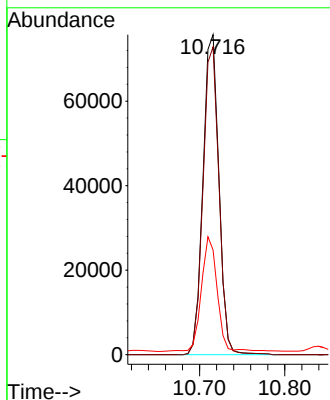
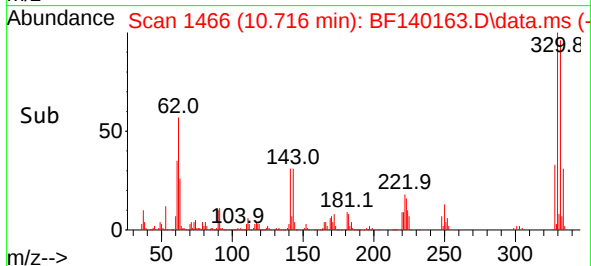
Tgt Ion:330 Resp: 98098
Ion Ratio Lower Upper
330 100
332 96.5 78.1 117.1
141 36.0 26.6 39.8

Manual Integrations

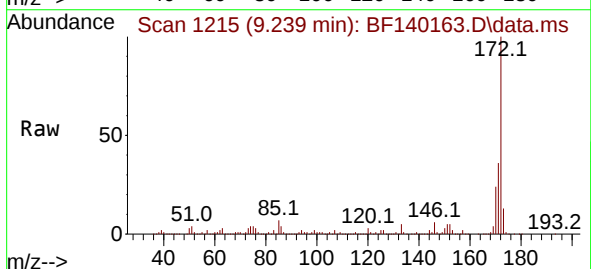
APPROVED

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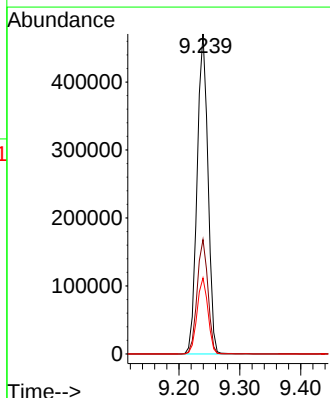
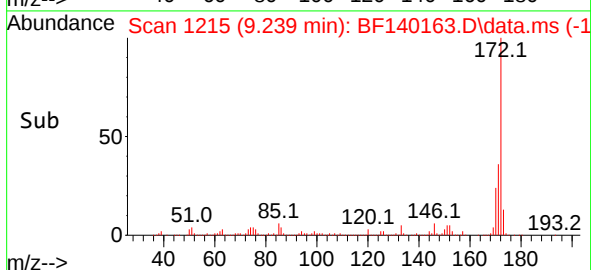
Supervised By :mohammad ahmed 11/04/2024

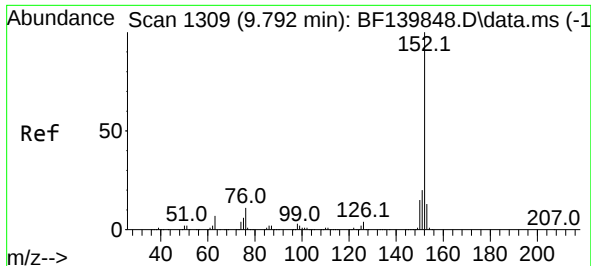


#45
2-Fluorobiphenyl
Concen: 67.655 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46



Tgt Ion:172 Resp: 581857
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 23.8 19.1 28.7





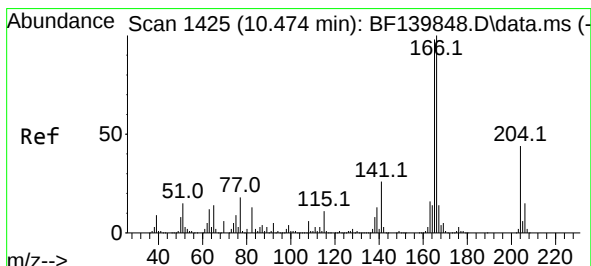
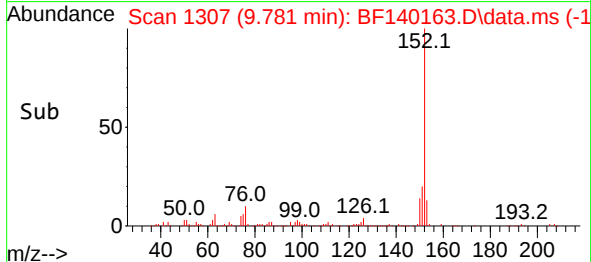
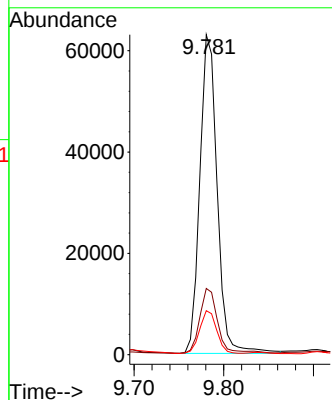
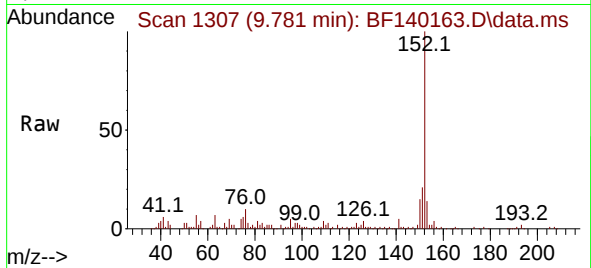
#49
Acenaphthylene
Concen: 7.339 ng
RT: 9.781 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion:152 Resp: 84550
Ion Ratio Lower Upper
152 100
151 20.7 15.9 23.9
153 13.7 10.7 16.1

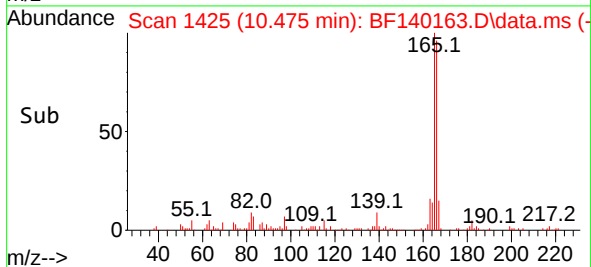
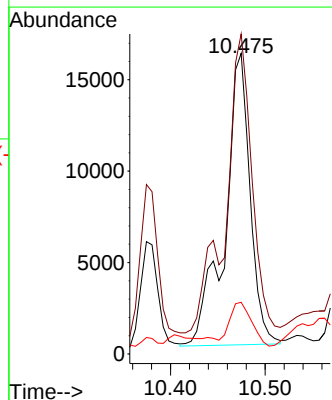
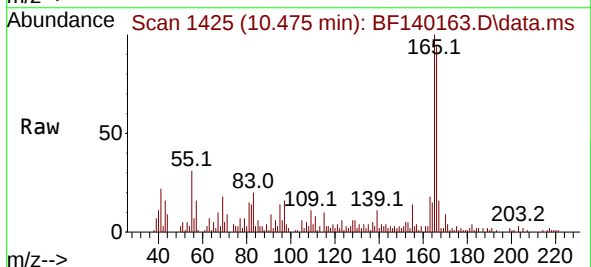
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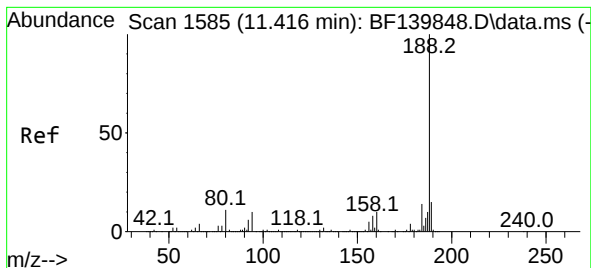
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#58
Fluorene
Concen: 3.605 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:166 Resp: 29364
Ion Ratio Lower Upper
166 100
165 106.4 78.5 117.7
167 17.2 10.9 16.3#





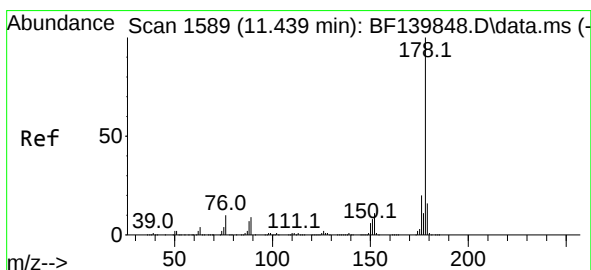
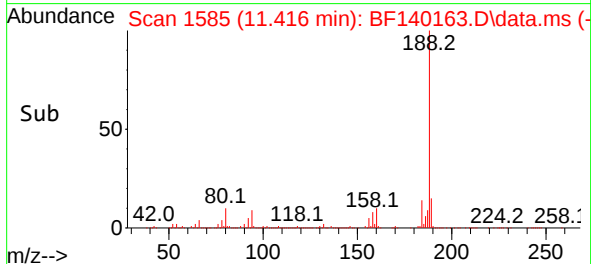
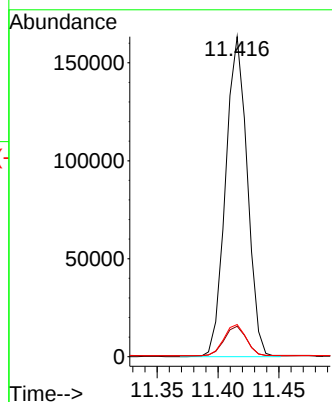
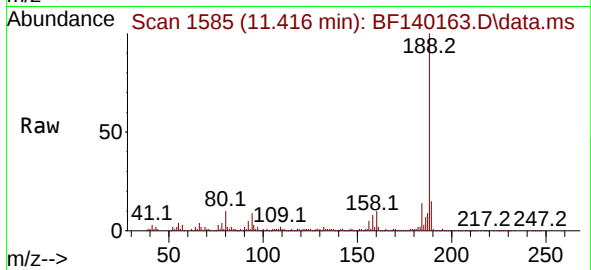
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion:188 Resp: 202228
Ion Ratio Lower Upper
188 100
94 9.5 7.9 11.9
80 10.1 9.0 13.4

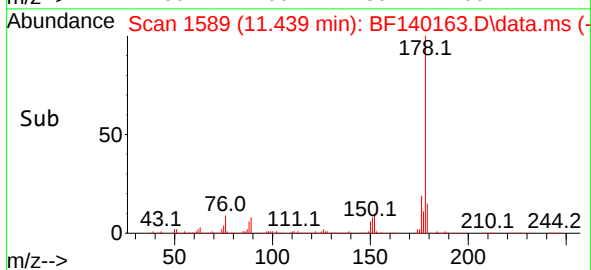
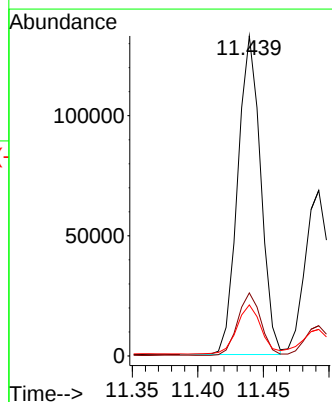
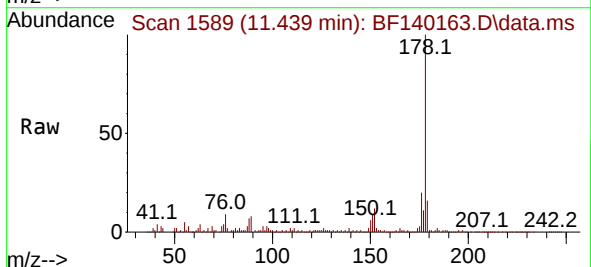
Manual Integrations
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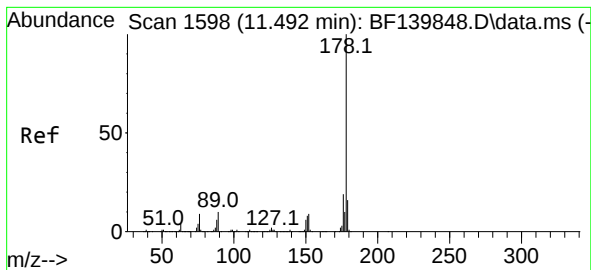
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#71
Phenanthrene
Concen: 16.899 ng
RT: 11.439 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

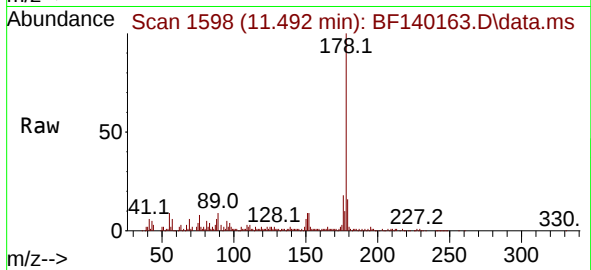
Tgt Ion:178 Resp: 161426
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.6
179 15.9 12.6 18.8





#72
 Anthracene
 Concen: 9.493 ng
 RT: 11.492 min Scan# 11492
 Delta R.T. 0.000 min
 Lab File: BF140163.D
 Acq: 30 Oct 2024 17:46

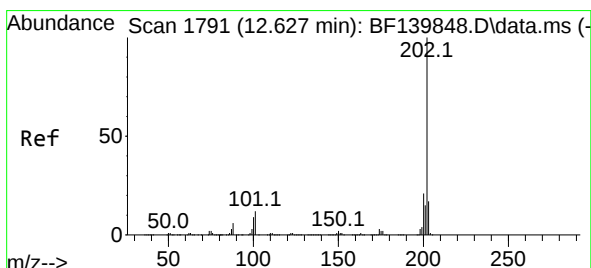
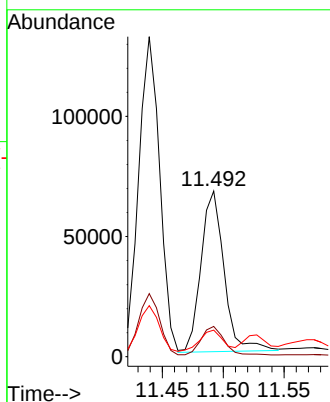
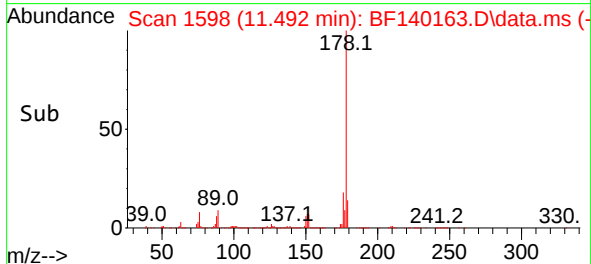
Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL



Tgt Ion:178 Resp: 88480
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.3 22.9
 179 16.0 12.4 18.6

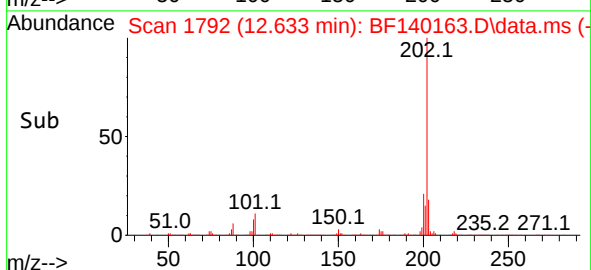
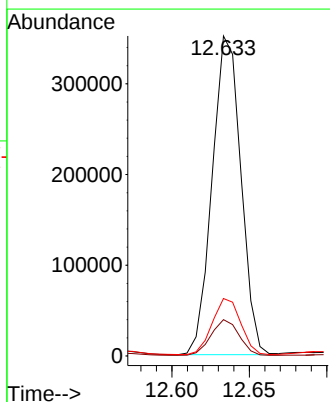
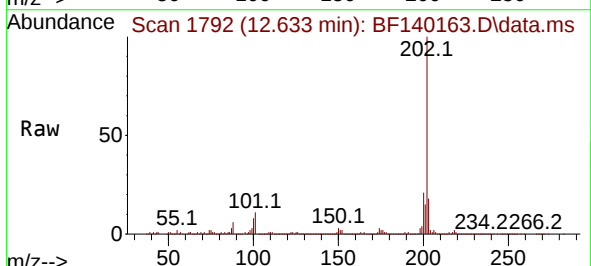
Manual Integrations
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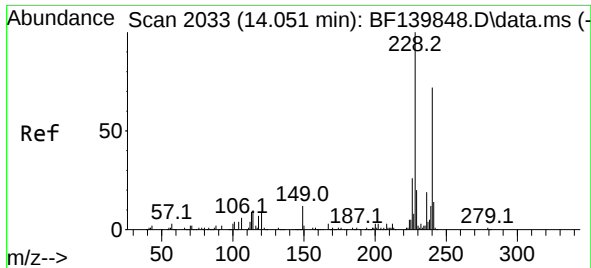
Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :mohammad ahmed 11/04/2024



#75
 Fluoranthene
 Concen: 46.936 ng
 RT: 12.633 min Scan# 1792
 Delta R.T. 0.006 min
 Lab File: BF140163.D
 Acq: 30 Oct 2024 17:46

Tgt Ion:202 Resp: 453252
 Ion Ratio Lower Upper
 202 100
 101 11.4 0.0 31.9
 203 18.0 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 2033
Delta R.T. 0.030 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

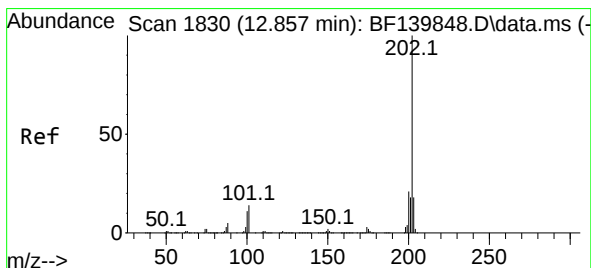
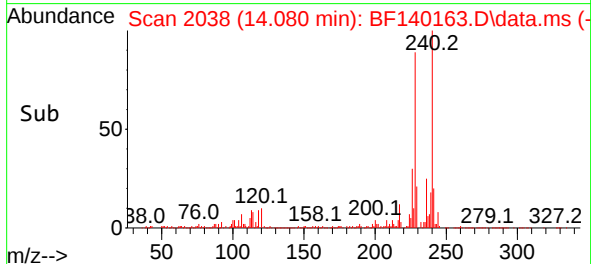
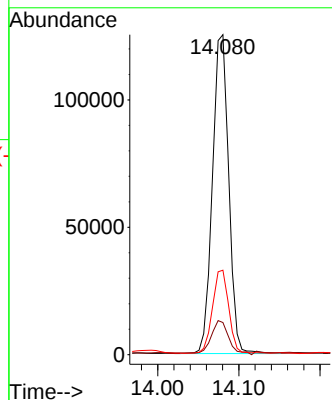
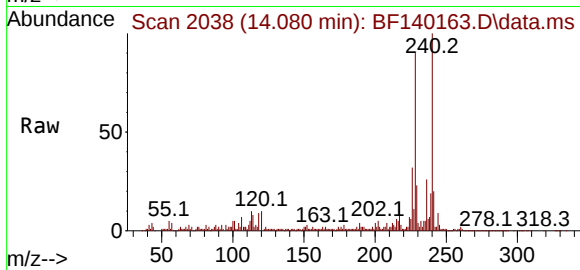
RO-SOIL

Tgt Ion:240 Resp: 17419
Ion Ratio Lower Upper
240 100
120 10.1 9.4 14.2
236 26.4 20.9 31.3

Manual Integrations

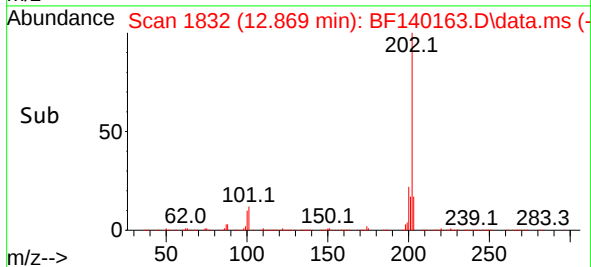
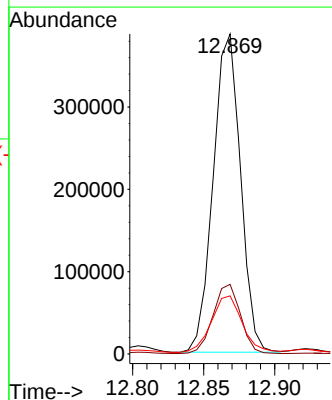
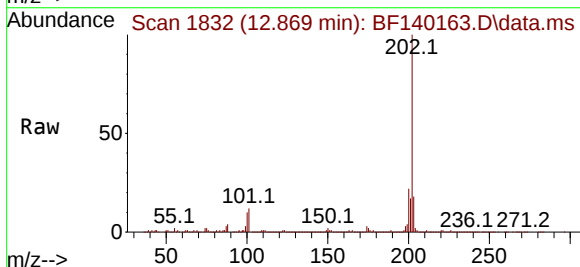
APPROVED

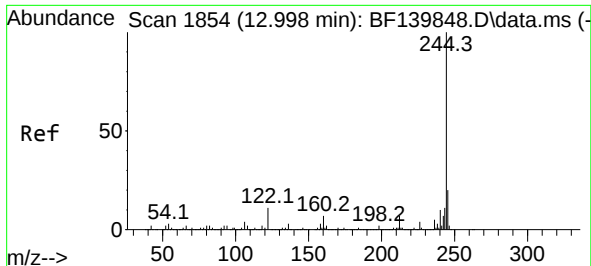
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#78
Pyrene
Concen: 33.909 ng
RT: 12.869 min Scan# 1832
Delta R.T. 0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:202 Resp: 517030
Ion Ratio Lower Upper
202 100
200 21.8 17.2 25.8
203 18.1 14.2 21.4





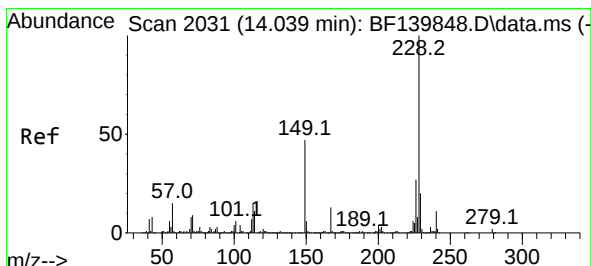
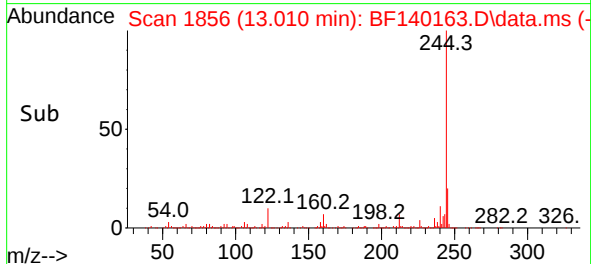
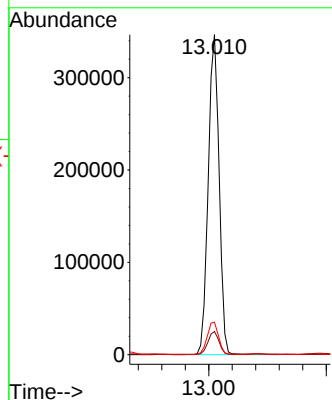
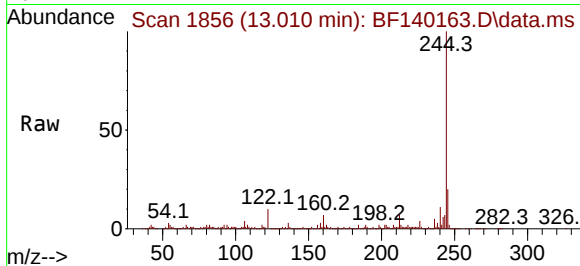
#79
Terphenyl-d14
Concen: 41.546 ng
RT: 13.010 min Scan# 1854
Delta R.T. 0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion:244 Resp: 444127
Ion Ratio Lower Upper
244 100
212 7.2 5.7 8.5
122 10.1 8.6 13.0

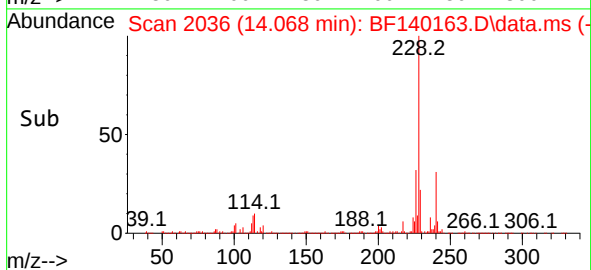
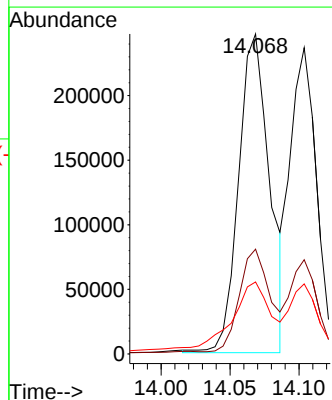
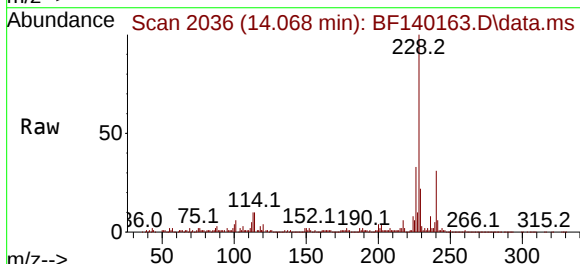
Manual Integrations
APPROVED

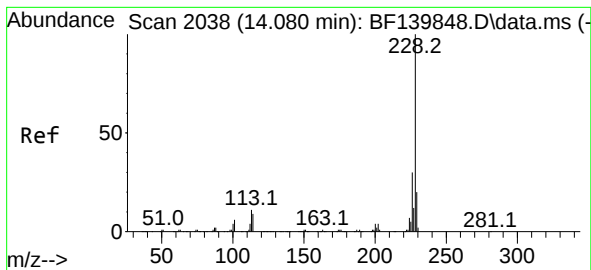
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#81
Benzo(a)anthracene
Concen: 34.161 ng m
RT: 14.068 min Scan# 2036
Delta R.T. 0.030 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:228 Resp: 387364
Ion Ratio Lower Upper
228 100
226 32.8 21.6 32.4#
229 22.5 16.1 24.1





#83

Chrysene

Concen: 29.637 ng

RT: 14.104 min Scan# 2038

Delta R.T. 0.024 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

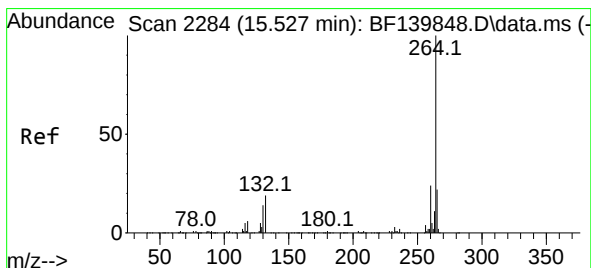
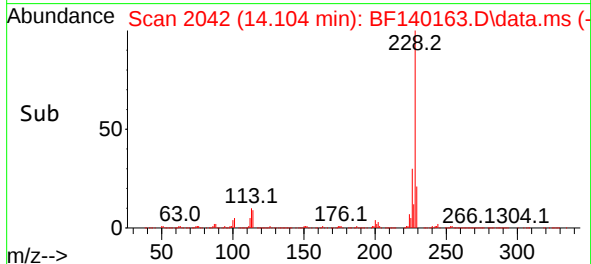
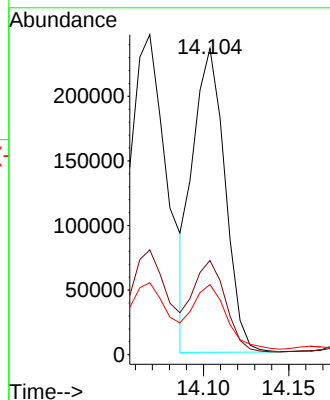
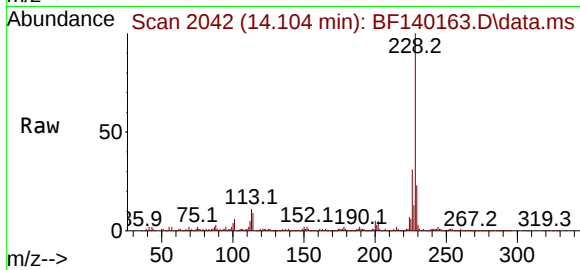
Tgt Ion:	228	Resp:	308129
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.1	36.1
229	22.9	15.8	23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#86

Perylene-d12

Concen: 20.000 ng

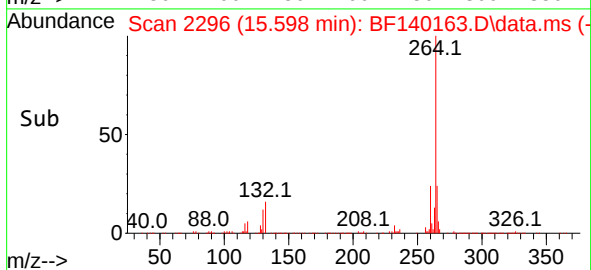
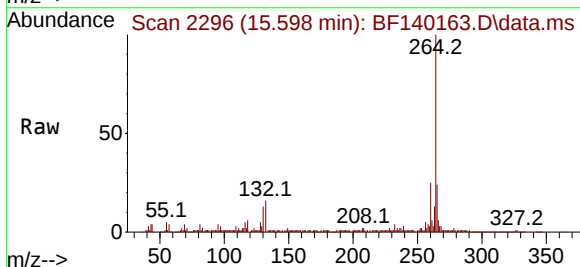
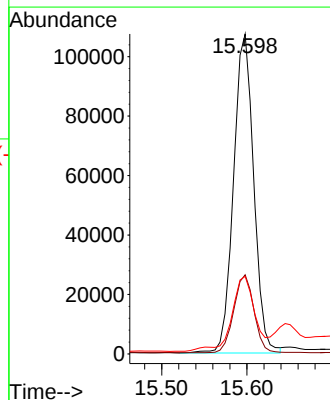
RT: 15.598 min Scan# 2296

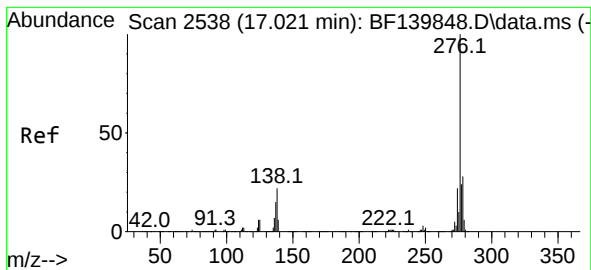
Delta R.T. 0.071 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Tgt Ion:	264	Resp:	176450
Ion Ratio	Lower	Upper	
264	100		
260	24.7	19.4	29.2
265	24.2	17.4	26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.534 ng m

RT: 17.115 min Scan# 2

Delta R.T. 0.094 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

Tgt Ion:276 Resp: 14227

Ion Ratio Lower Upper

276 100

138 4.4 20.4 30.6

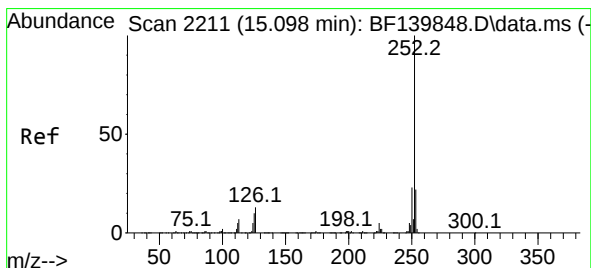
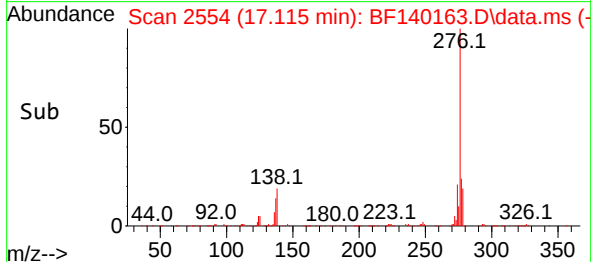
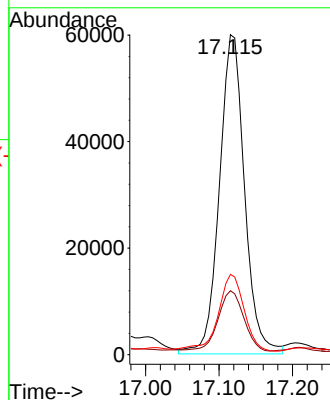
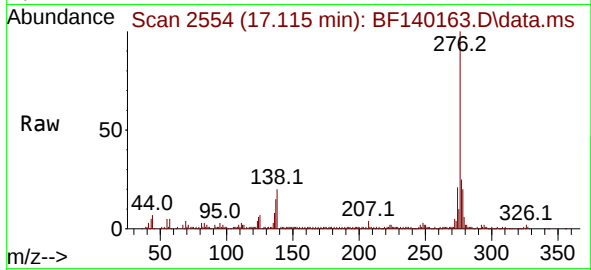
277 4.9 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#88

Benzo(b)fluoranthene

Concen: 40.957 ng m

RT: 15.157 min Scan# 2221

Delta R.T. 0.059 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

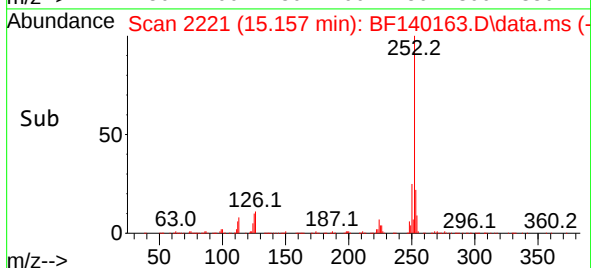
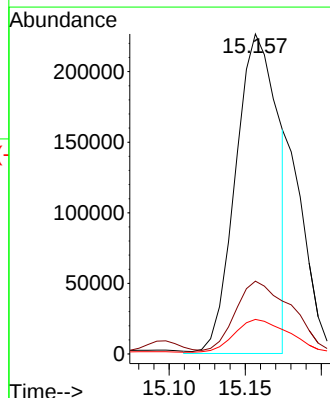
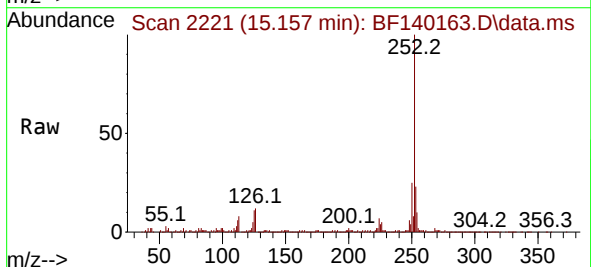
Tgt Ion:252 Resp: 440227

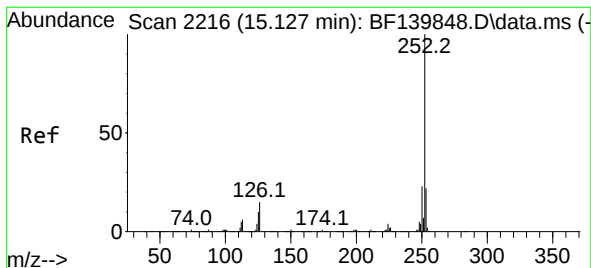
Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 10.8 7.9 11.9





#89

Benzo(k)fluoranthene

Concen: 13.832 ng m

RT: 15.174 min Scan# 21

Delta R.T. 0.047 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

Tgt Ion:252 Resp: 12822

Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

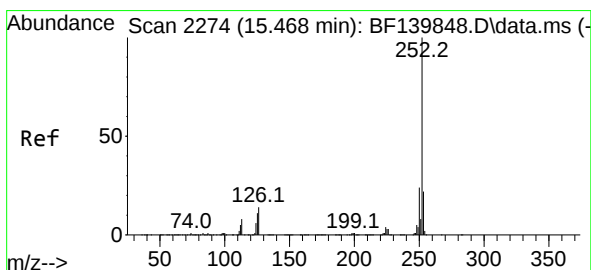
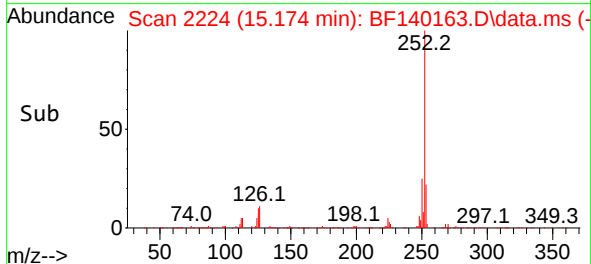
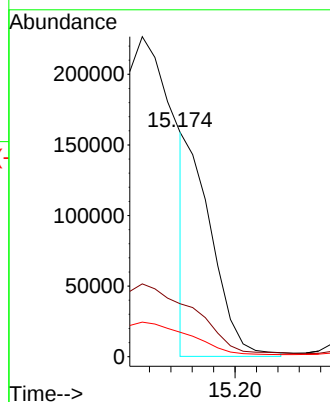
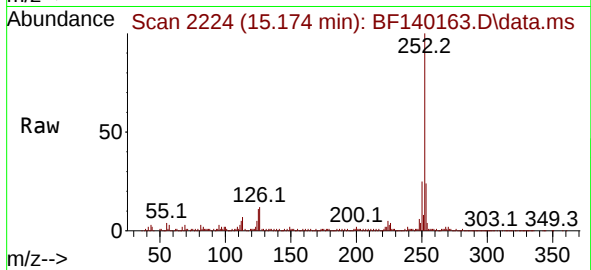
125 10.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#90

Benzo(a)pyrene

Concen: 33.985 ng

RT: 15.533 min Scan# 2285

Delta R.T. 0.065 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

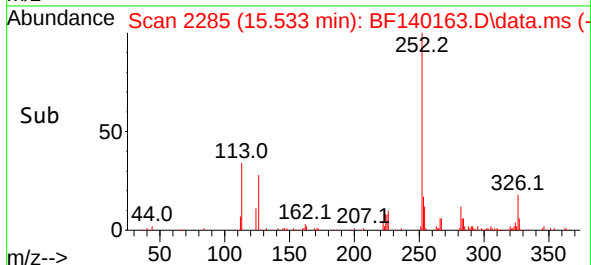
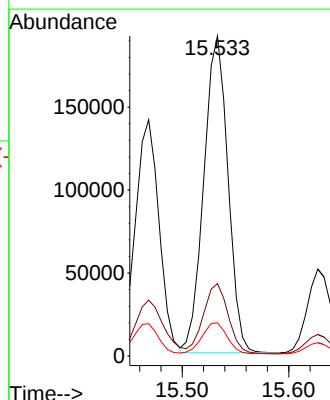
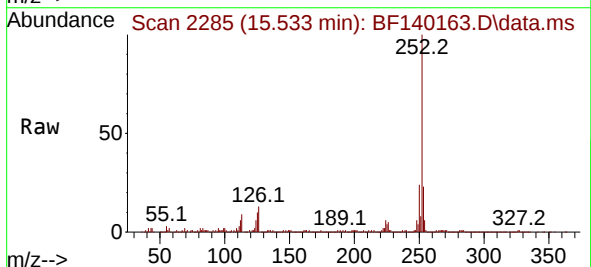
Tgt Ion:252 Resp: 300577

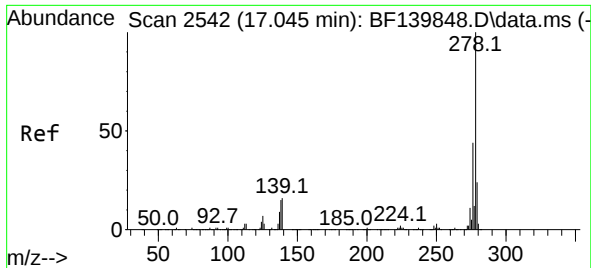
Ion Ratio Lower Upper

252 100

253 22.6 17.3 25.9

125 10.3 8.7 13.1





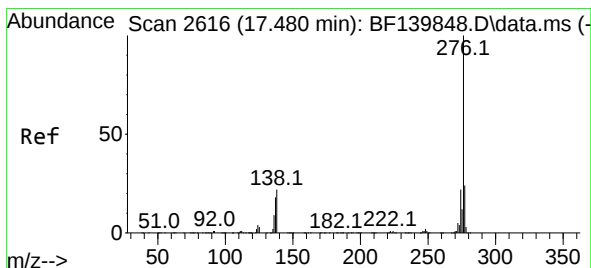
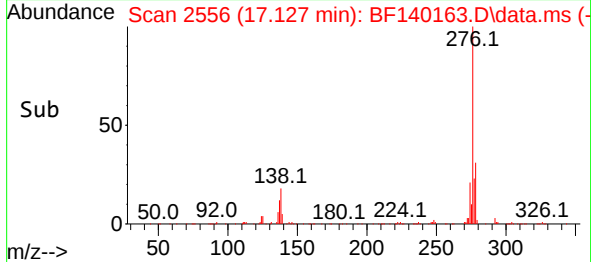
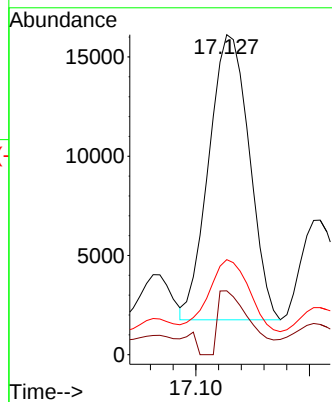
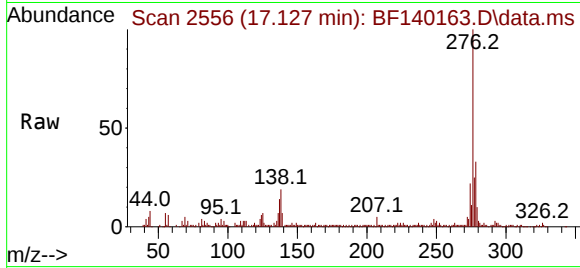
#91
Dibenzo(a,h)anthracene
Concen: 3.751 ng
RT: 17.127 min Scan# 21
Delta R.T. 0.082 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion:278 Resp: 3551
Ion Ratio Lower Upper
278 100
139 19.9 13.1 19.7
279 29.7 19.0 28.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#92
Benzo(g,h,i)perylene
Concen: 13.147 ng
RT: 17.580 min Scan# 2633
Delta R.T. 0.100 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:276 Resp: 124359
Ion Ratio Lower Upper
276 100
277 25.1 19.0 28.6
138 21.3 17.4 26.0

