

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
 Data File : BM042580.D
 Acq On : 03 Nov 2023 20:59
 Operator : MA/JU
 Sample : 05220-03 10X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-6(5-10)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023

Quant Time: Nov 03 22:41:32 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 03 15:52:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.916	152	32959	20.000	ng	0.00
21) Naphthalene-d8	10.734	136	126358	20.000	ng	0.00
39) Acenaphthene-d10	14.569	164	78881	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	174050	20.000	ng	0.00
76) Chrysene-d12	21.503	240	172190	20.000	ng	0.00
86) Perylene-d12	23.921	264	190010	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	27336	13.385	ng	0.01
7) Phenol-d6	7.081	99	34835	12.437	ng	0.00
23) Nitrobenzene-d5	9.116	82	24351	8.984	ng	0.00
42) 2,4,6-Tribromophenol	16.063	330	13278	12.893	ng	0.00
45) 2-Fluorobiphenyl	13.186	172	54391	9.278	ng	0.00
79) Terphenyl-d14	19.933	244	82408	8.115	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.363	178	111237	12.230	ng	99
72) Anthracene	17.457	178	30899	3.430	ng	99
75) Fluoranthene	19.374	202	204240	19.116	ng	99
78) Pyrene	19.745	202	199703	16.890	ng	99
81) Benzo(a)anthracene	21.486	228	125944	11.496	ng	98
83) Chrysene	21.539	228	116999	10.513	ng	96
87) Indeno(1,2,3-cd)pyrene	26.456	276	76399	6.756	ng	# 92
88) Benzo(b)fluoranthene	23.174	252	147835	13.965	ng	96
89) Benzo(k)fluoranthene	23.221	252	52156m	4.422	ng	
90) Benzo(a)pyrene	23.815	252	110872	10.638	ng	94
91) Dibenzo(a,h)anthracene	26.456	278	19300	5.827	ng	# 74
92) Benzo(g,h,i)perylene	27.244	276	82465	8.274	ng	# 94

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

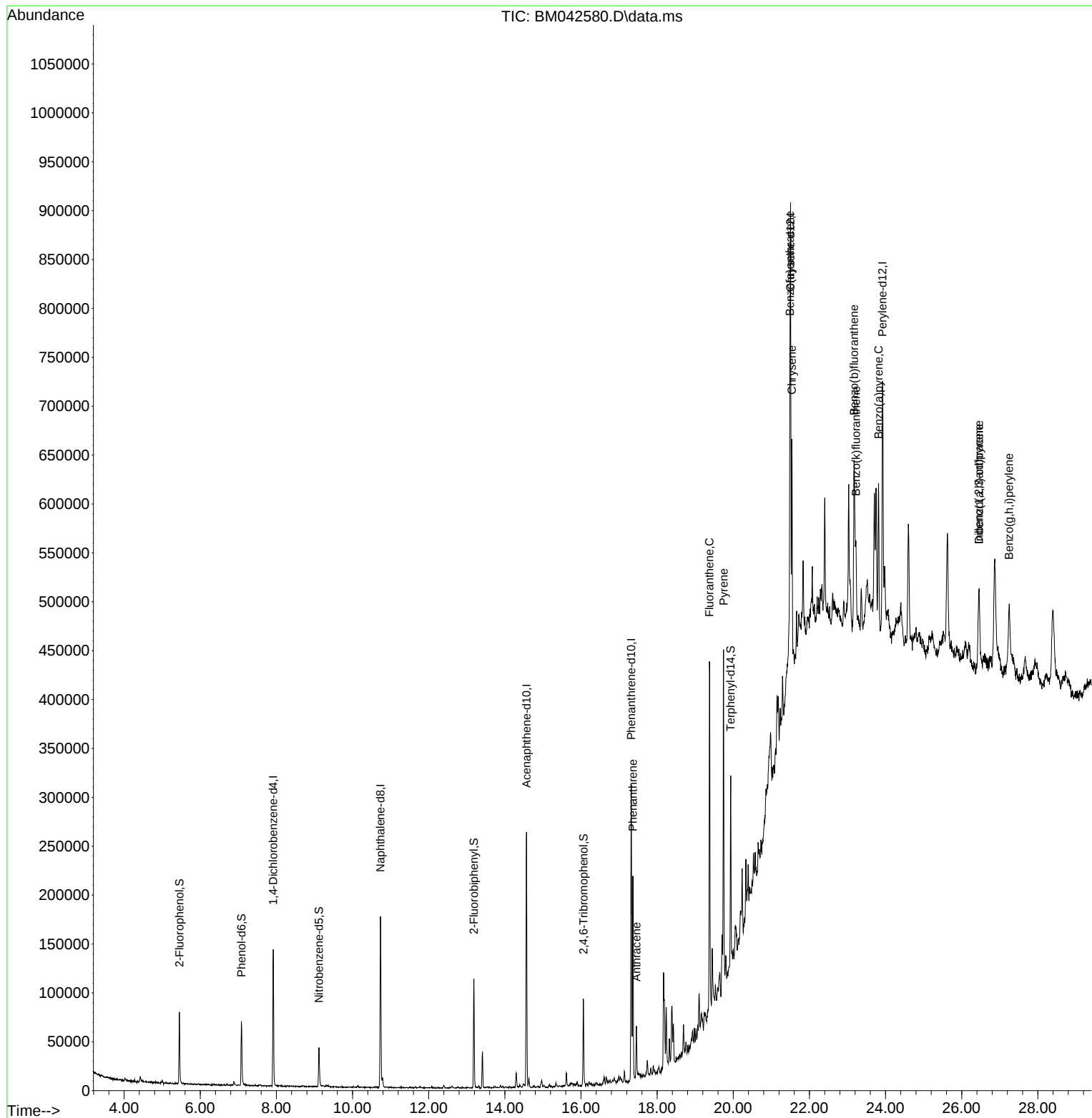
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
Data File : BM042580.D
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Misc :
ALS Vial : 15 Sample Multiplier: 1

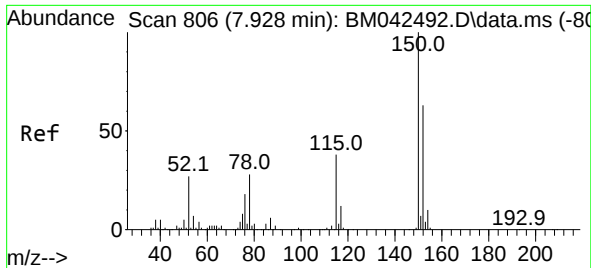
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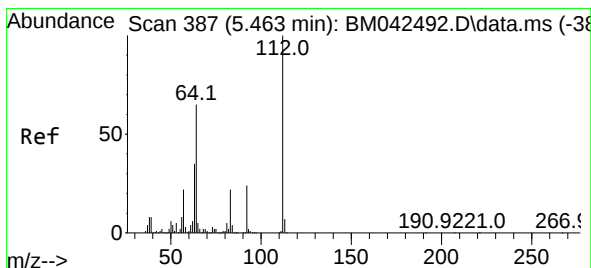
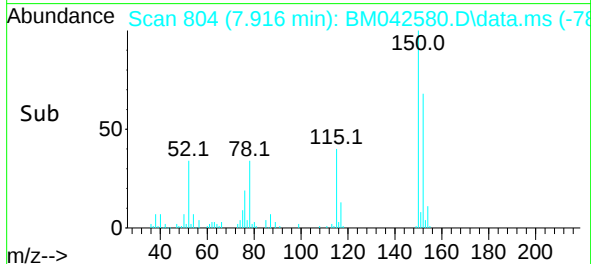
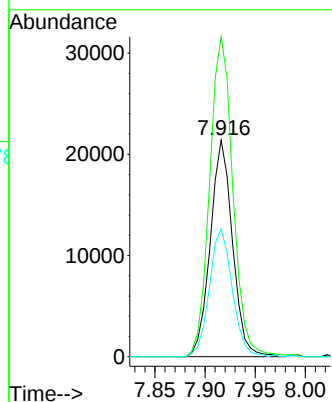
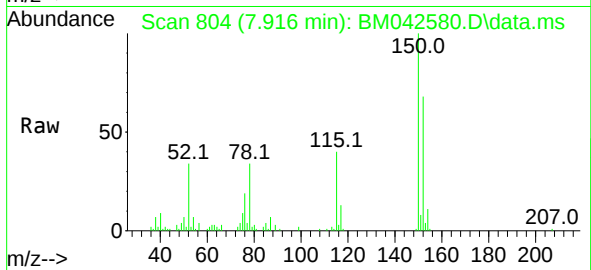
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.916 min Scan# 806
Delta R.T. 0.006 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59

Instrument :
BNA_M
Client Sample Id :
Z-6(5-10)

Tgt Ion:152 Resp: 32958
Ion Ratio Lower Upper
152 100
150 147.7 127.4 191.0
115 58.9 47.9 71.9

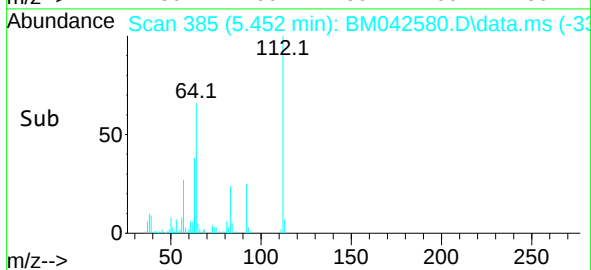
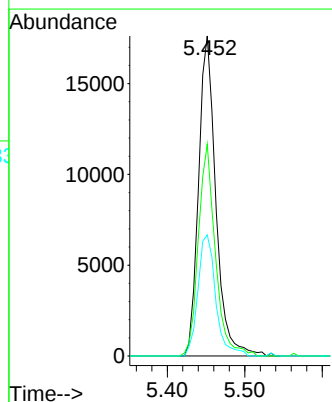
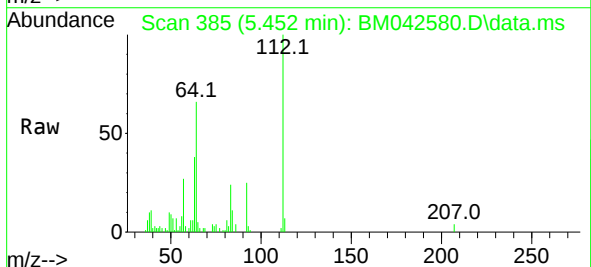
Manual Integrations
APPROVED

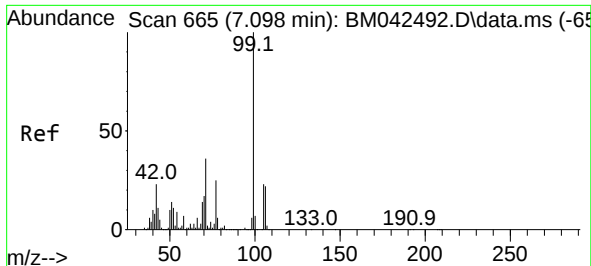
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023



#5
2-Fluorophenol
Concen: 13.385 ng
RT: 5.452 min Scan# 385
Delta R.T. 0.012 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59

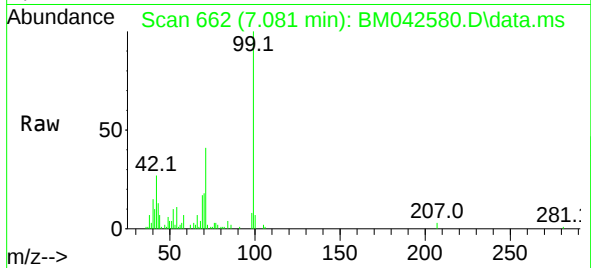
Tgt Ion:112 Resp: 27336
Ion Ratio Lower Upper
112 100
64 66.2 52.1 78.1
63 37.9 28.3 42.5





#7
Phenol-d6
Concen: 12.437 ng
RT: 7.081 min Scan# 60
Delta R.T. 0.006 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59

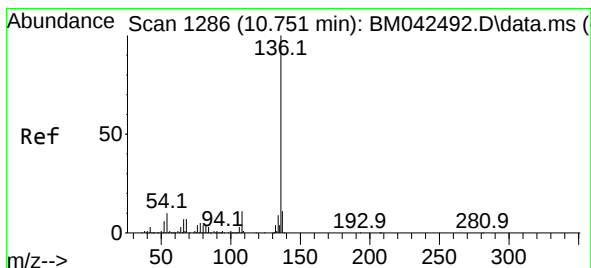
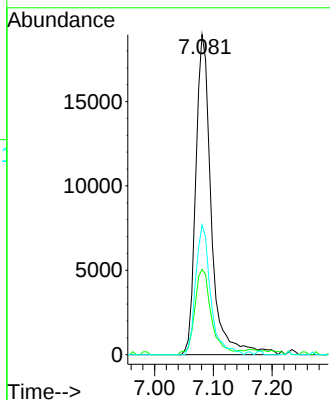
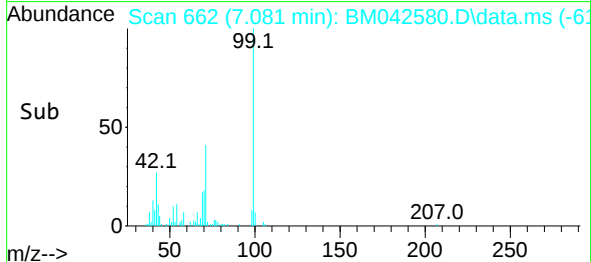
Instrument :
BNA_M
ClientSampleId :
Z-6(5-10)



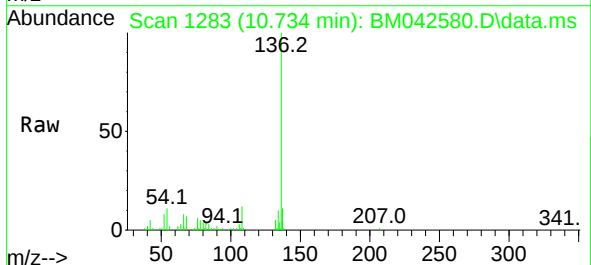
Tgt Ion: 99 Resp: 3483
Ion Ratio Lower Upper
99 100
42 26.6 18.7 28.1
71 40.6 29.1 43.7

Manual Integrations
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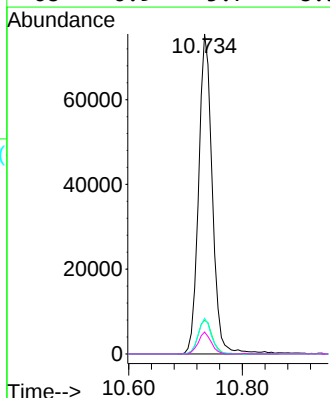
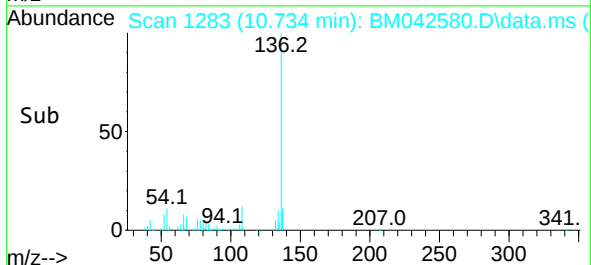
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023

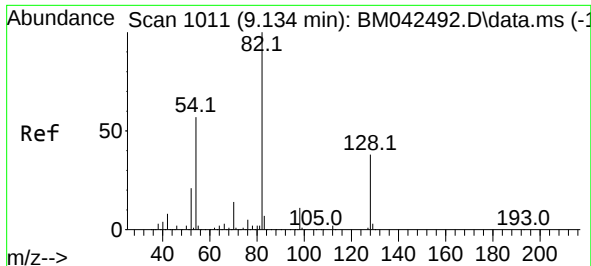


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.734 min Scan# 1283
Delta R.T. 0.006 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59



Tgt Ion:136 Resp: 126358
Ion Ratio Lower Upper
136 100
137 10.5 9.0 13.6
54 11.1 8.0 12.0
68 6.9 5.7 8.5





#23

Nitrobenzene-d5

Concen: 8.984 ng

RT: 9.116 min Scan# 1011

Delta R.T. 0.006 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

BNA_M

ClientSampleId :

Z-6(5-10)

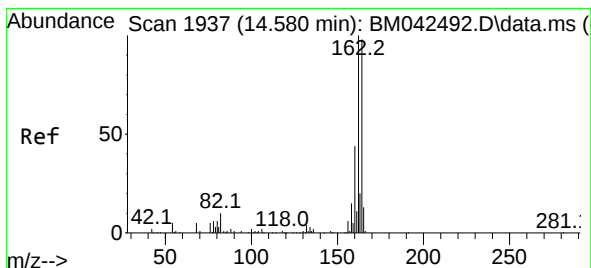
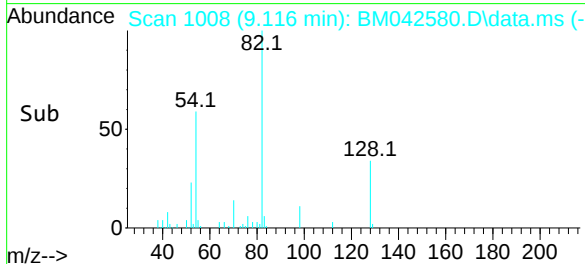
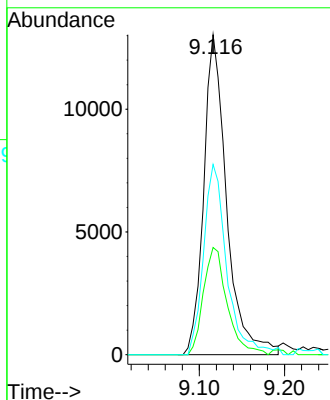
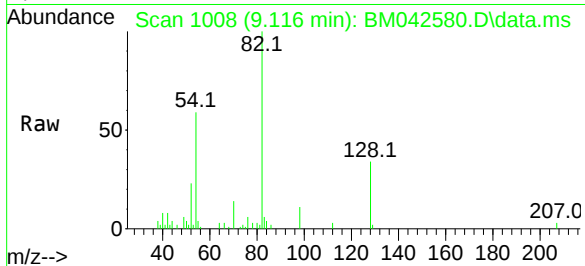
Tgt Ion: 82	Resp: 2435
Ion Ratio	Lower Upper
82	100
128	33.5 30.7 46.1
54	59.4 45.3 67.9

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

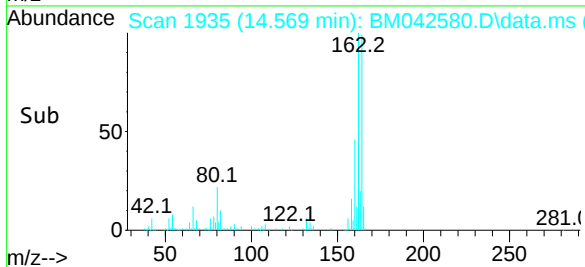
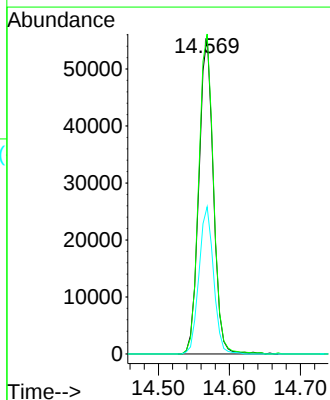
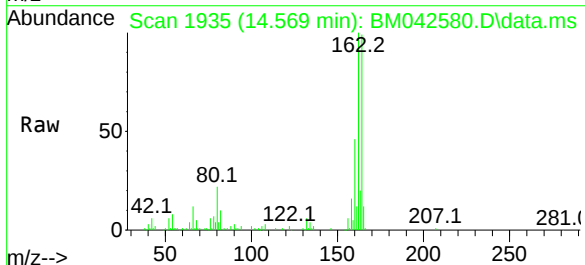
RT: 14.569 min Scan# 1935

Delta R.T. 0.006 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

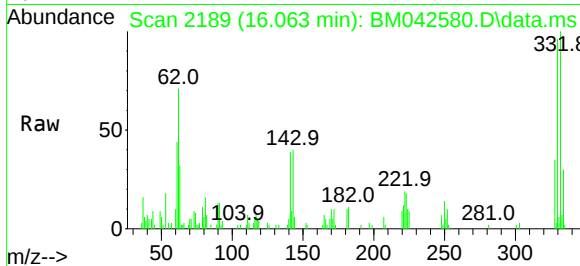
Tgt Ion:164	Resp: 78881
Ion Ratio	Lower Upper
164	100
162	100.6 81.6 122.4
160	46.3 36.2 54.4





#42
2,4,6-Tribromophenol
Concen: 12.893 ng
RT: 16.063 min Scan# 2191
Delta R.T. -0.000 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59

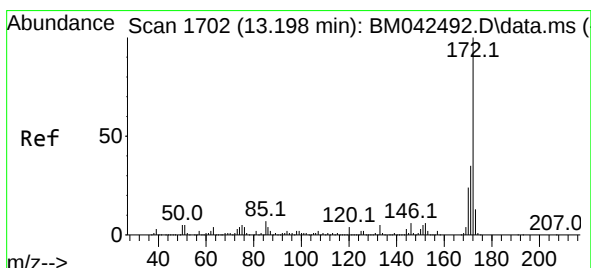
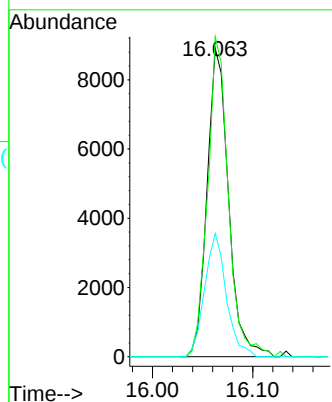
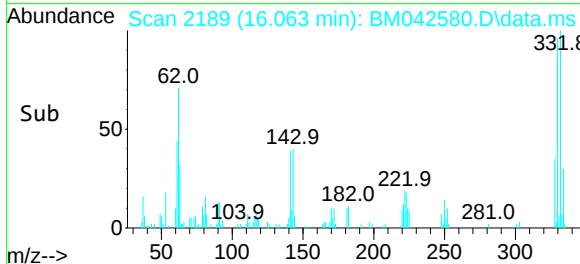
Instrument :
BNA_M
ClientSampleId :
Z-6(5-10)



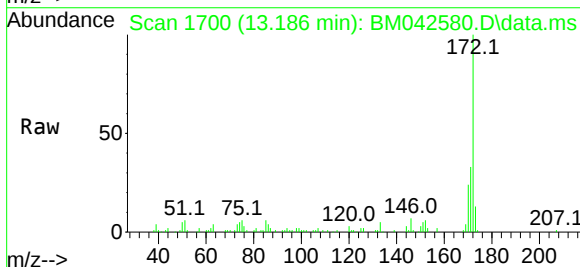
Tgt Ion:330 Resp: 13278
Ion Ratio Lower Upper
330 100
332 100.7 78.8 118.2
141 40.4 31.1 46.7

Manual Integrations
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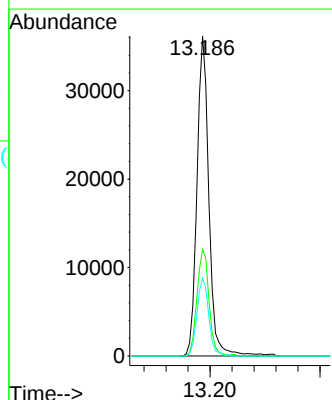
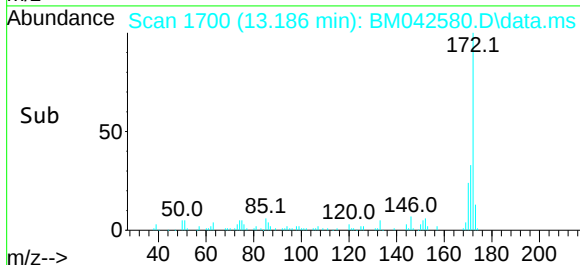
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023



#45
2-Fluorobiphenyl
Concen: 9.278 ng
RT: 13.186 min Scan# 1700
Delta R.T. -0.000 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59



Tgt Ion:172 Resp: 54391
Ion Ratio Lower Upper
172 100
171 33.4 28.2 42.2
170 24.4 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.321 min Scan# 24

Delta R.T. 0.006 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

BNA_M

ClientSampleId :

Z-6(5-10)

Tgt Ion:188 Resp: 174050

Ion Ratio Lower Upper

188 100

94 8.6 8.2 12.4

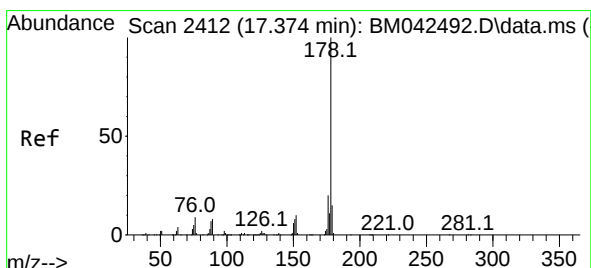
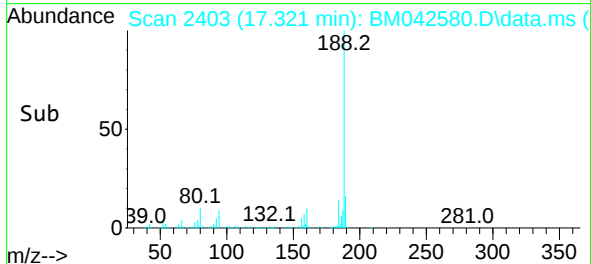
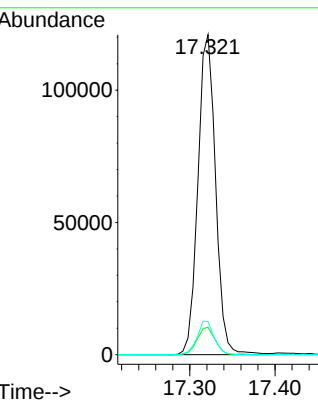
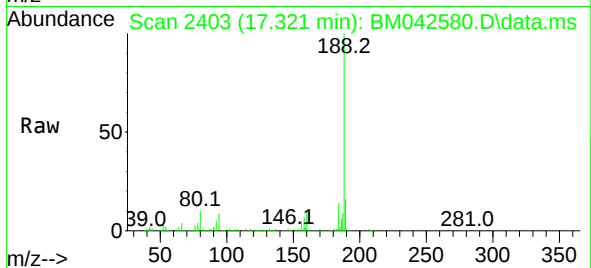
80 10.4 9.4 14.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/04/2023

Supervised By :mohammad ahmed 11/04/2023



#71

Phenanthrene

Concen: 12.230 ng

RT: 17.363 min Scan# 2410

Delta R.T. -0.000 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

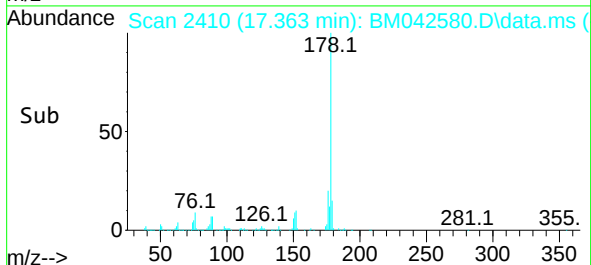
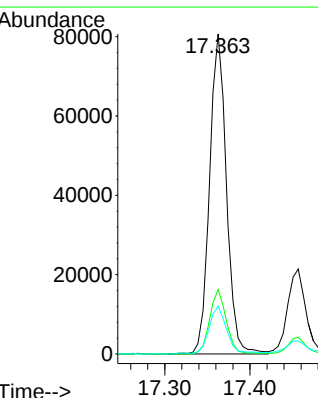
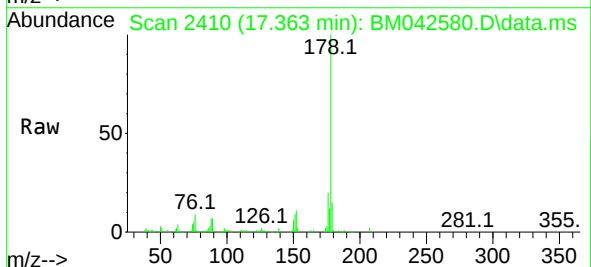
Tgt Ion:178 Resp: 111237

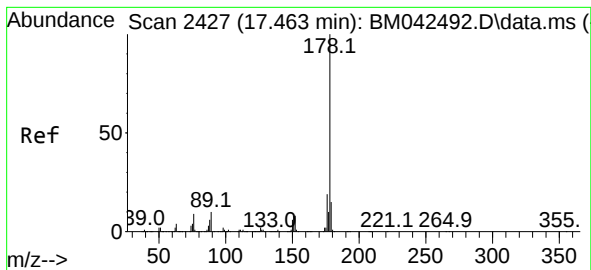
Ion Ratio Lower Upper

178 100

176 20.1 15.8 23.8

179 15.0 12.2 18.4





#72

Anthracene

Concen: 3.430 ng

RT: 17.457 min Scan# 2427

Delta R.T. 0.006 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

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ClientSampleId :

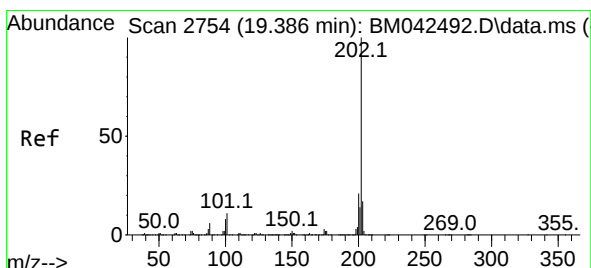
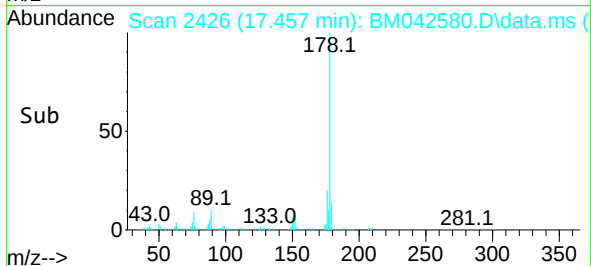
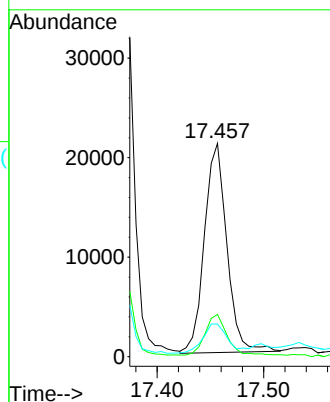
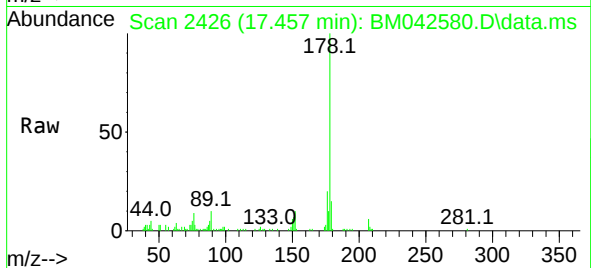
Z-6(5-10)

Tgt Ion:178 Resp: 30895
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.2 22.8
 179 15.3 12.3 18.5

Manual Integrations

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 Supervised By :mohammad ahmed 11/04/2023



#75

Fluoranthene

Concen: 19.116 ng

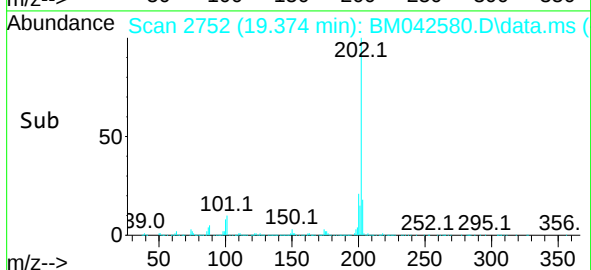
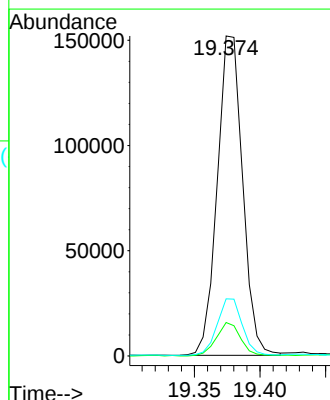
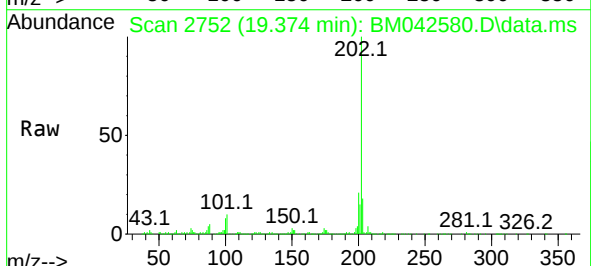
RT: 19.374 min Scan# 2752

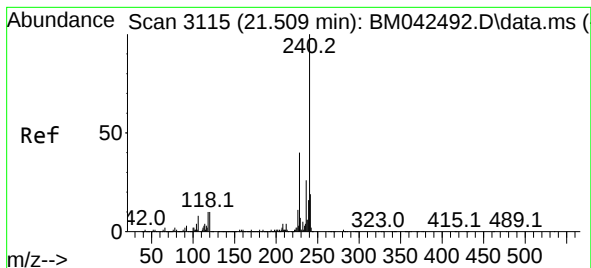
Delta R.T. -0.000 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Tgt Ion:202 Resp: 204240
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 30.5
 203 17.8 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.503 min Scan# 3115

Delta R.T. -0.000 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

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ClientSampleId :

Z-6(5-10)

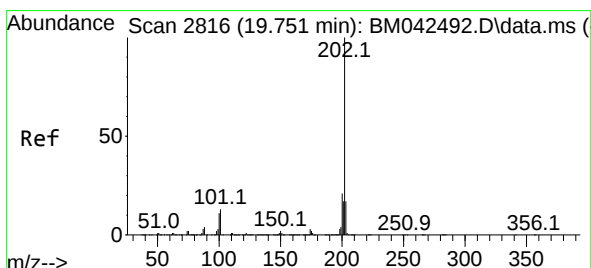
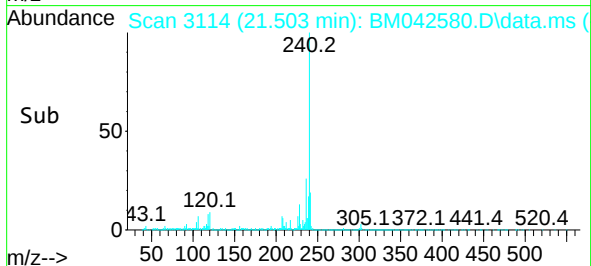
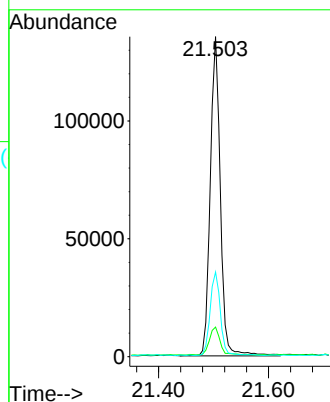
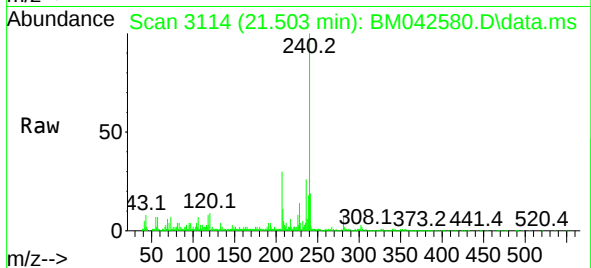
Tgt Ion:	240	Resp:	172190
Ion Ratio	Lower	Upper	
240	100		
120	9.3	8.3	12.5
236	26.4	20.8	31.2

Manual Integrations

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Supervised By :mohammad ahmed 11/04/2023



#78

Pyrene

Concen: 16.890 ng

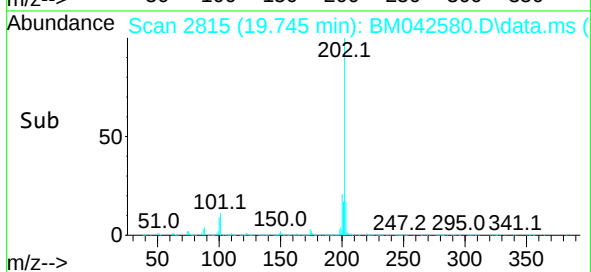
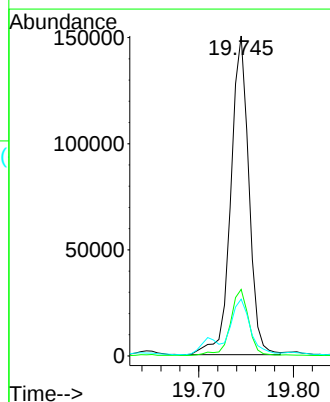
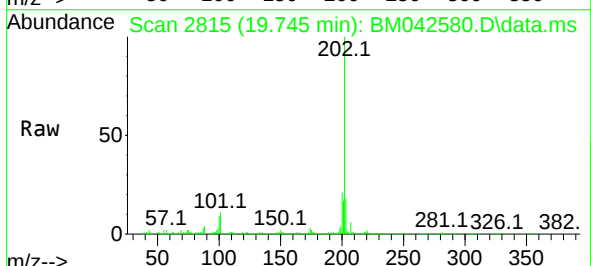
RT: 19.745 min Scan# 2815

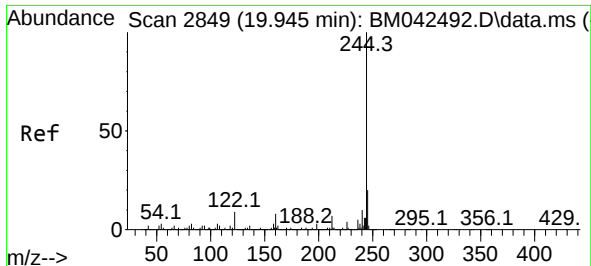
Delta R.T. 0.006 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

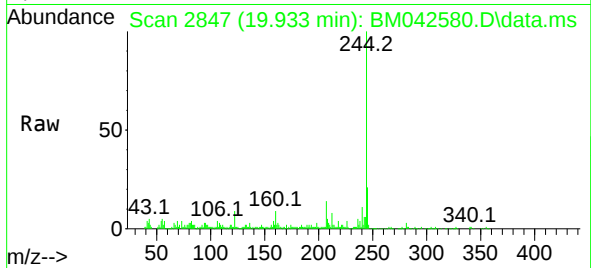
Tgt Ion:	202	Resp:	199703
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.9	25.3
203	17.8	13.7	20.5





#79
 Terphenyl-d14
 Concen: 8.115 ng
 RT: 19.933 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BM042580.D
 Acq: 03 Nov 2023 20:59

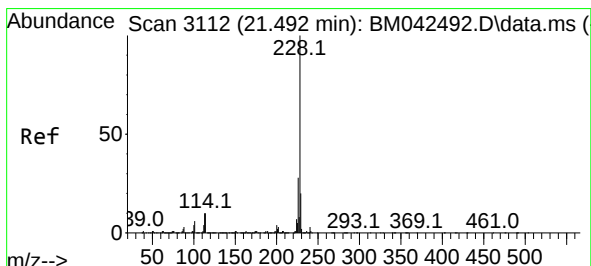
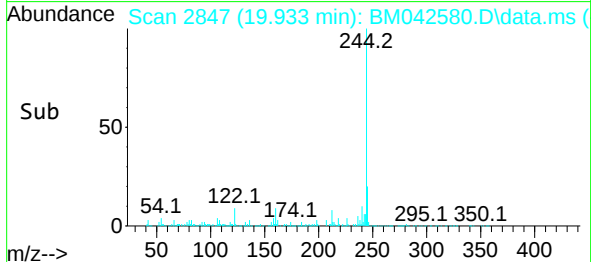
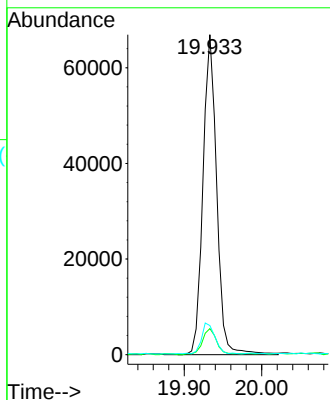
Instrument :
 BNA_M
 ClientSampleId :
 Z-6(5-10)



Tgt Ion:244 Resp: 82408
 Ion Ratio Lower Upper
 244 100
 212 8.1 5.4 8.2
 122 9.1 7.2 10.8

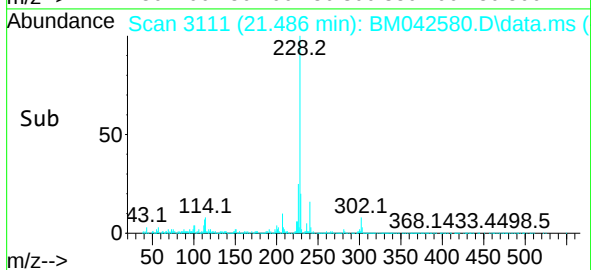
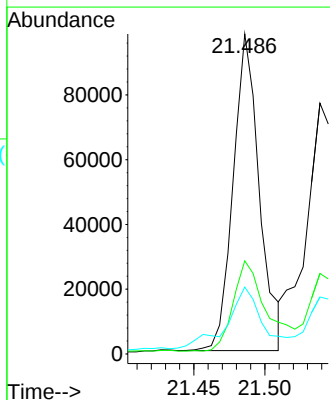
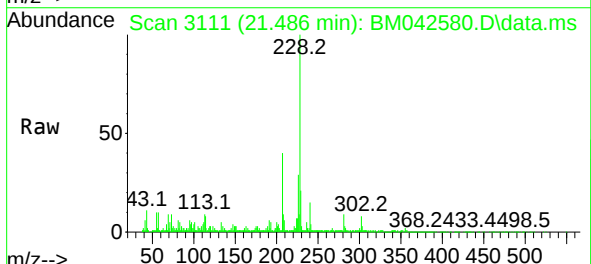
Manual Integrations
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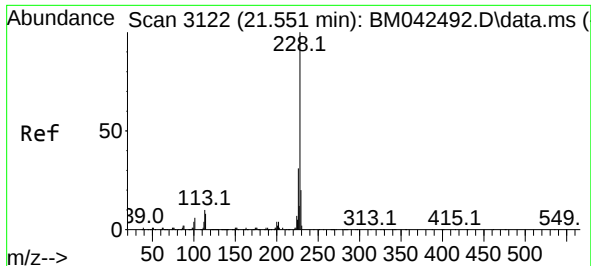
Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023



#81
 Benzo(a)anthracene
 Concen: 11.496 ng
 RT: 21.486 min Scan# 3111
 Delta R.T. -0.000 min
 Lab File: BM042580.D
 Acq: 03 Nov 2023 20:59

Tgt Ion:228 Resp: 125944
 Ion Ratio Lower Upper
 228 100
 226 29.1 22.3 33.5
 229 20.9 15.8 23.8





#83

Chrysene

Concen: 10.513 ng

RT: 21.539 min Scan# 31

Delta R.T. -0.000 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

BNA_M

ClientSampleId :

Z-6(5-10)

Tgt Ion:228 Resp: 11699

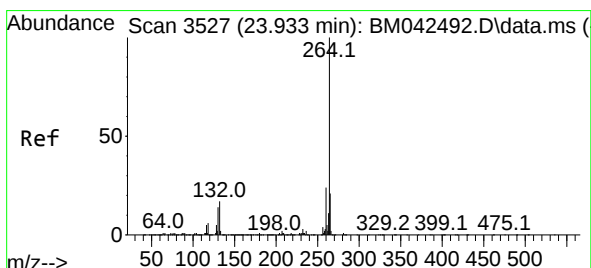
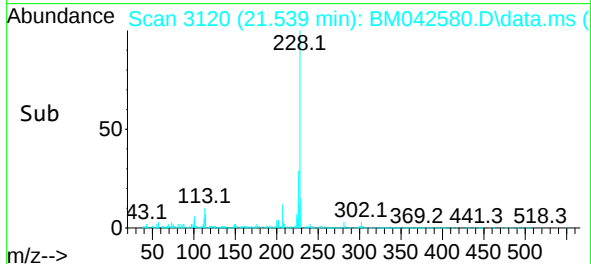
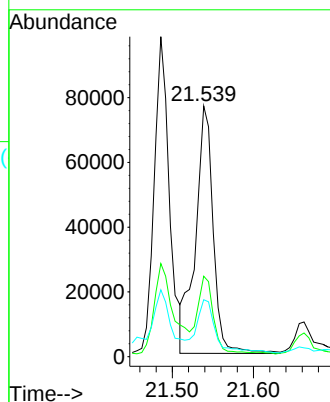
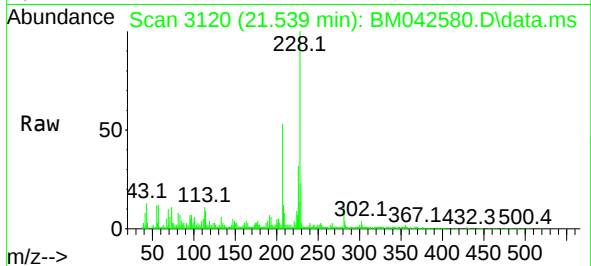
Ion	Ratio	Lower	Upper
228	100		
226	32.1	24.4	36.6
229	22.7	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2023

Supervised By :mohammad ahmed 11/04/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.921 min Scan# 3525

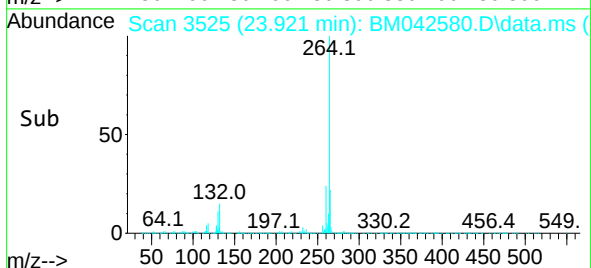
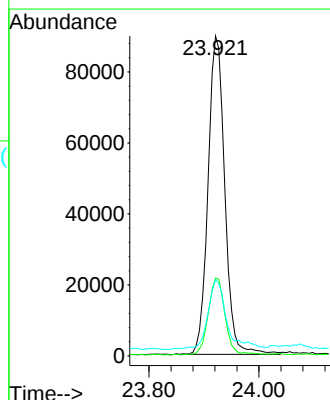
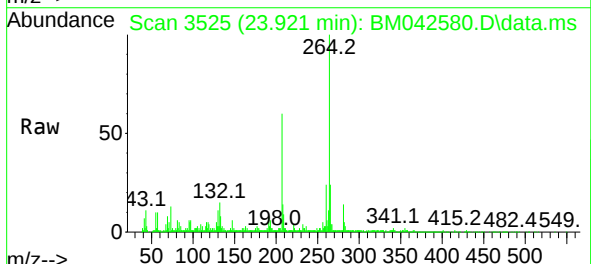
Delta R.T. 0.006 min

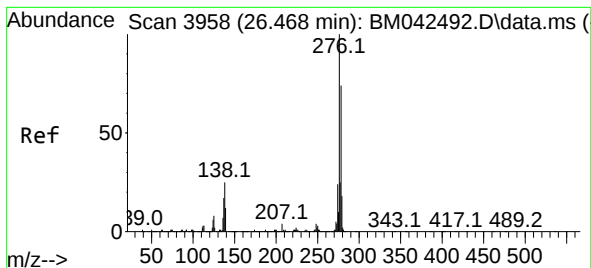
Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Tgt Ion:264 Resp: 190010

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.0	28.4
265	23.9	18.7	28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.756 ng

RT: 26.456 min Scan# 3398

Delta R.T. 0.006 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

BNA_M

ClientSampleId :

Z-6(5-10)

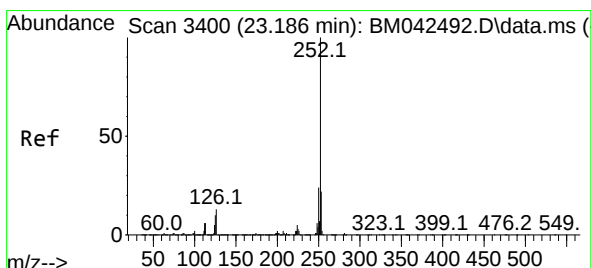
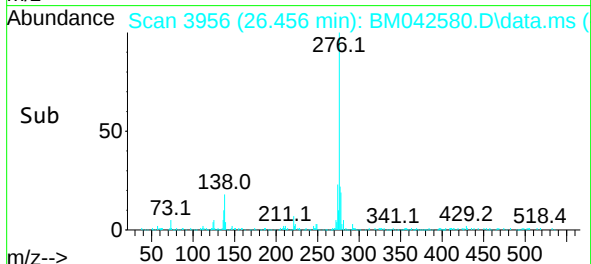
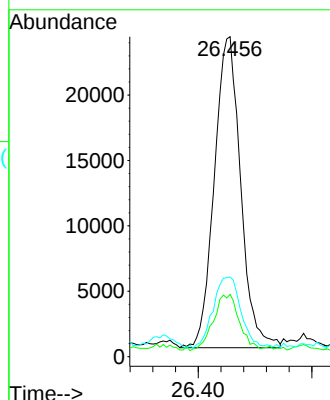
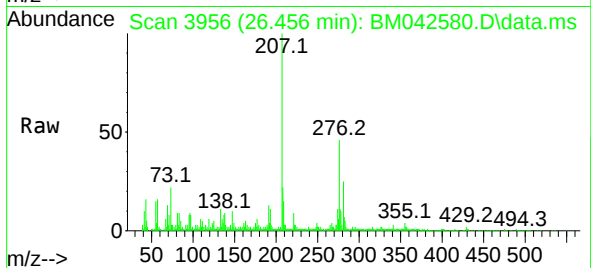
Tgt Ion:	276	Resp:	76399
Ion Ratio	Lower	Upper	
276	100		
138	17.8	20.6	31.0
277	24.5	19.5	29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2023

Supervised By :mohammad ahmed 11/04/2023



#88

Benzo(b)fluoranthene

Concen: 13.965 ng

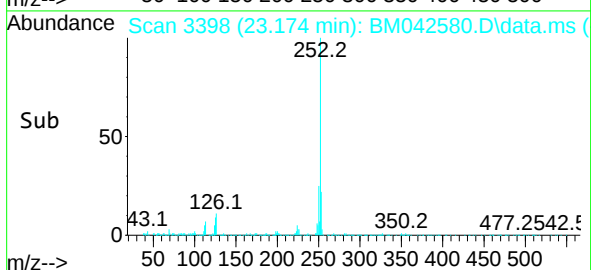
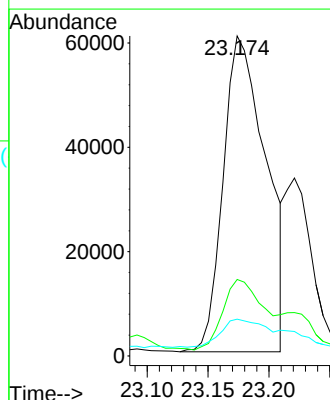
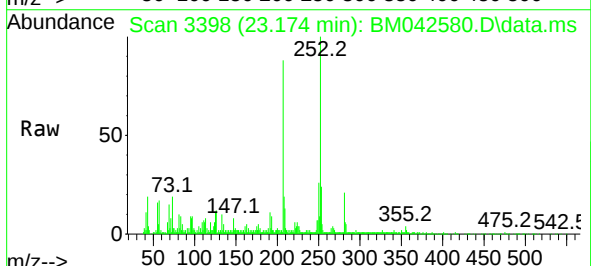
RT: 23.174 min Scan# 3398

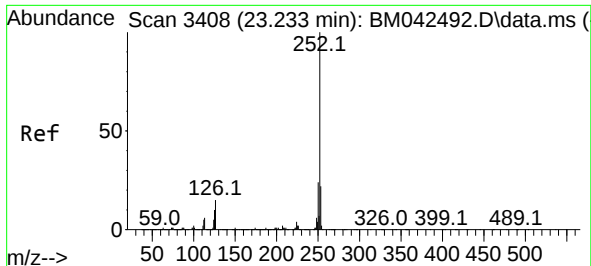
Delta R.T. -0.000 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Tgt Ion:	252	Resp:	147835
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.5	26.3
125	11.5	7.8	11.6





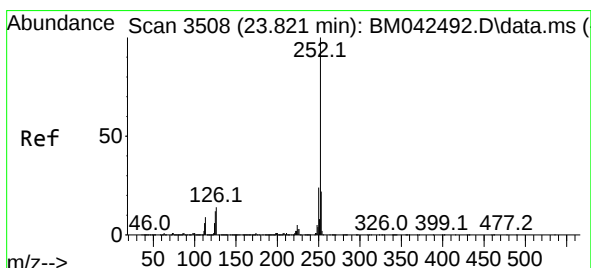
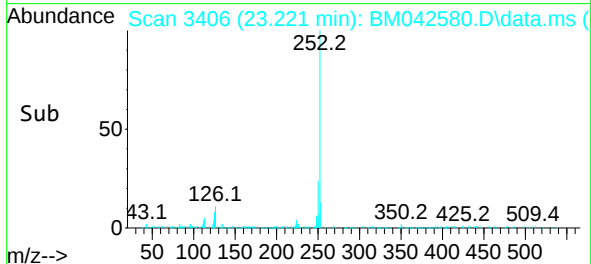
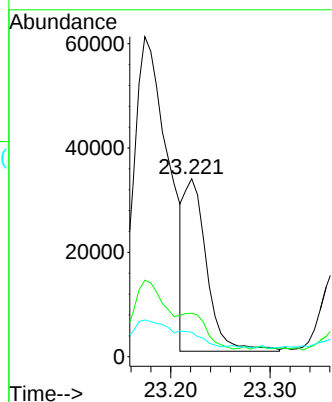
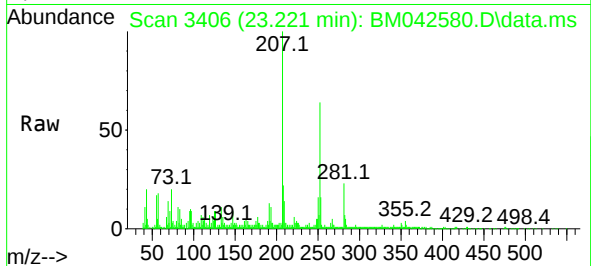
#89
Benzo(k)fluoranthene
Concen: 4.422 ng m
RT: 23.221 min Scan# 34
Delta R.T. -0.000 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59

Instrument :
BNA_M
ClientSampleId :
Z-6(5-10)

Tgt Ion:252 Resp: 52150
Ion Ratio Lower Upper
252 100
253 24.4 17.6 26.4
125 13.7 8.2 12.4

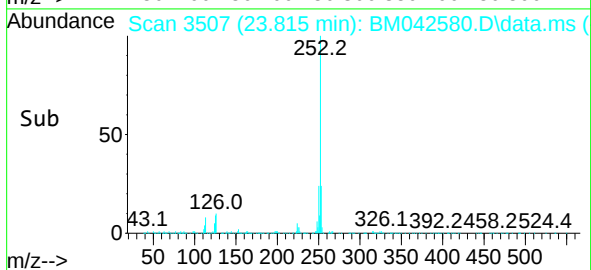
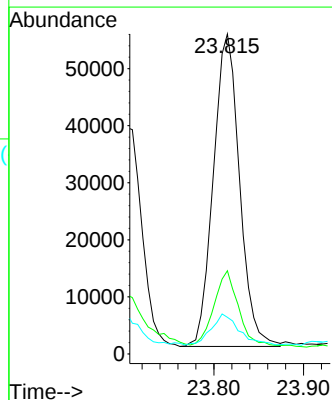
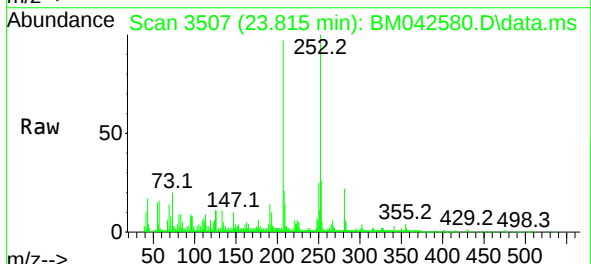
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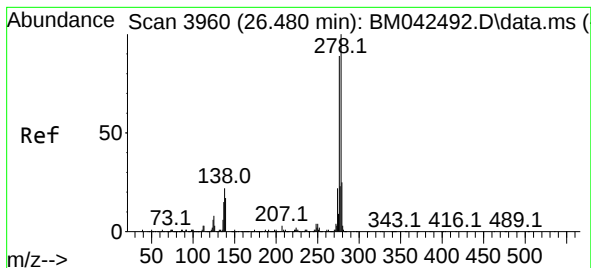
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023



#90
Benzo(a)pyrene
Concen: 10.638 ng
RT: 23.815 min Scan# 3507
Delta R.T. 0.006 min
Lab File: BM042580.D
Acq: 03 Nov 2023 20:59

Tgt Ion:252 Resp: 110872
Ion Ratio Lower Upper
252 100
253 26.0 17.5 26.3
125 11.4 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 5.827 ng

RT: 26.456 min Scan# 3956

Delta R.T. -0.012 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Instrument :

BNA_M

ClientSampleId :

Z-6(5-10)

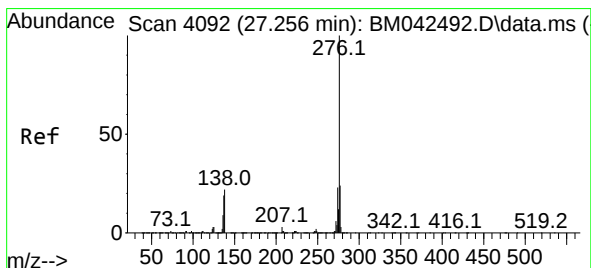
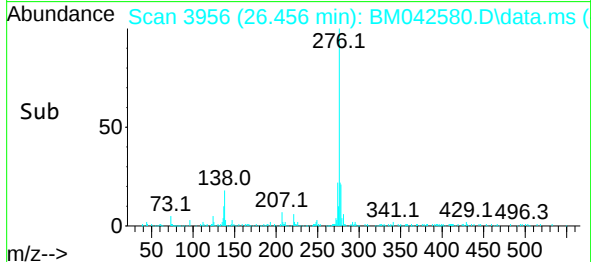
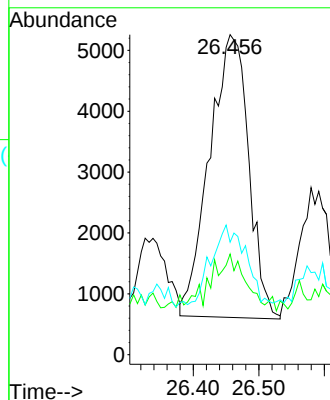
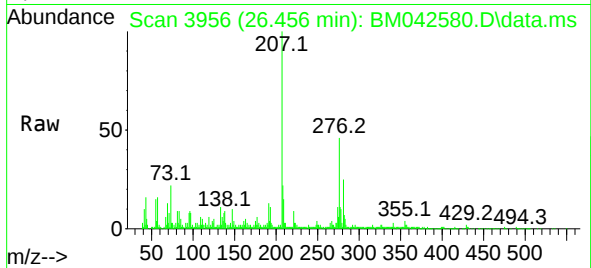
Tgt Ion:	278	Resp:	19300
Ion Ratio	Lower	Upper	
278	100		
139	31.5	13.4	20.2
279	35.2	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2023

Supervised By :mohammad ahmed 11/04/2023



#92

Benzo(g,h,i)perylene

Concen: 8.274 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.000 min

Lab File: BM042580.D

Acq: 03 Nov 2023 20:59

Tgt Ion:	276	Resp:	82465
Ion Ratio	Lower	Upper	
276	100		
277	25.2	19.2	28.8
138	16.8	17.3	25.9

