

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021324\
 Data File : BP019686.D
 Acq On : 13 Feb 2024 19:58
 Operator : MA/JU
 Sample : P1454-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 VNJ-241

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/15/2024
 Supervised By :mohammad ahmed 02/15/2024

Quant Time: Feb 13 23:27:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 01 00:51:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.905	152	67299	20.000	ng	-0.01
21) Naphthalene-d8	10.698	136	247207	20.000	ng	-0.02
39) Acenaphthene-d10	14.534	164	158519	20.000	ng	-0.02
64) Phenanthrene-d10	17.292	188	369126	20.000	ng	-0.01
76) Chrysene-d12	21.386	240	397861	20.000	ng	0.00
86) Perylene-d12	23.804	264	474146	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	516238	123.647	ng	-0.01
7) Phenol-d6	7.075	99	671590	119.298	ng	-0.01
23) Nitrobenzene-d5	9.069	82	462217	81.019	ng	-0.02
42) 2,4,6-Tribromophenol	16.034	330	371310	160.428	ng	0.00
45) 2-Fluorobiphenyl	13.163	172	1047364	81.680	ng	-0.02
79) Terphenyl-d14	19.863	244	1939779	80.180	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.363	142	28122	2.997	ng	99
52) Acenaphthene	14.598	154	82463	9.119	ng	96
55) Dibenzofuran	14.934	168	123881	8.411	ng	# 95
58) Fluorene	15.586	166	166107	14.159	ng	99
71) Phenanthrene	17.339	178	959850	49.411	ng	99
72) Anthracene	17.428	178	151712	7.829	ng	98
73) Carbazole	17.704	167	58033	3.297	ng	97
75) Fluoranthene	19.304	202	1407111	59.295	ng	99
78) Pyrene	19.657	202	942700	33.573	ng	100
81) Benzo(a)anthracene	21.369	228	339056	12.106	ng	98
83) Chrysene	21.421	228	325735	12.250	ng	99
87) Indeno(1,2,3-cd)pyrene	26.321	276	94053	2.591	ng	# 95
88) Benzo(b)fluoranthene	23.063	252	277769	9.295	ng	98
89) Benzo(k)fluoranthene	23.110	252	98500m	3.451	ng	
90) Benzo(a)pyrene	23.692	252	149055	5.606	ng	98
92) Benzo(g,h,i)perylene	27.092	276	85305	2.817	ng	100

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

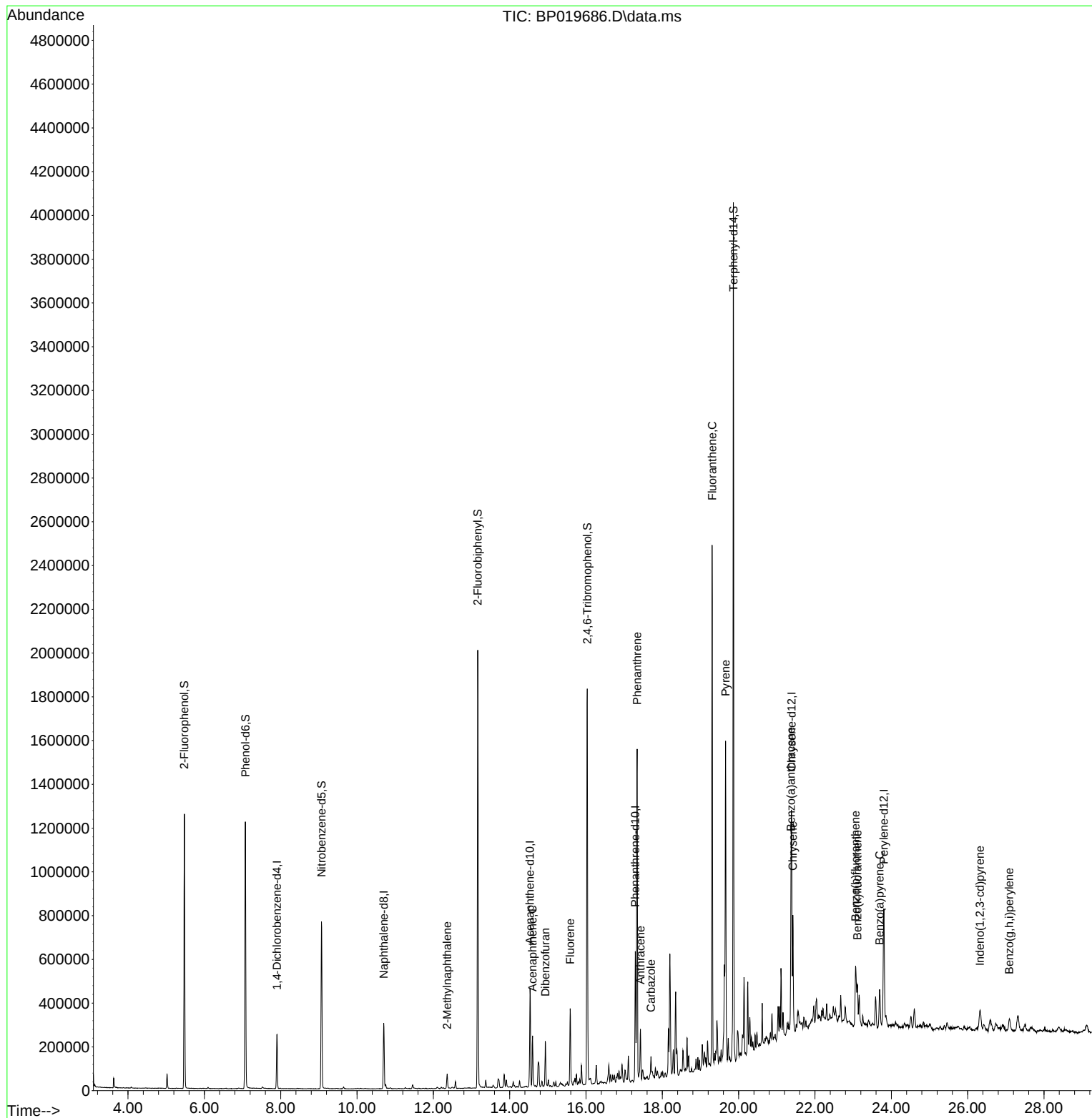
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021324\
Data File : BP019686.D
Acq On : 13 Feb 2024 19:58
Operator : MA/JU
Sample : P1454-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

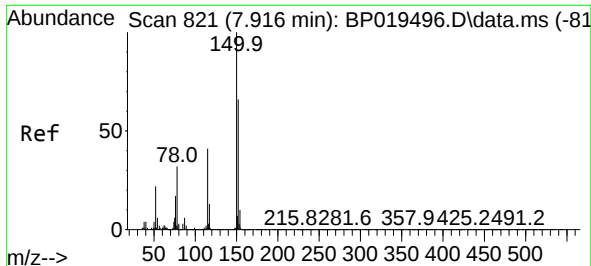
Instrument :
BNA_P
ClientSampleId :
VNJ-241

Quant Time: Feb 13 23:27:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 01 00:51:48 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024





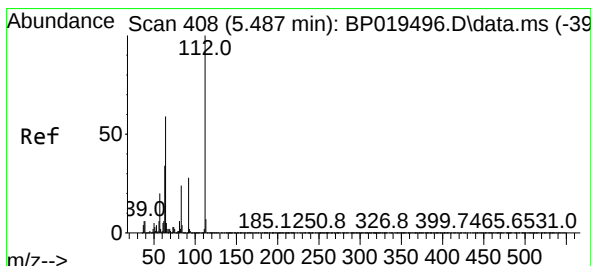
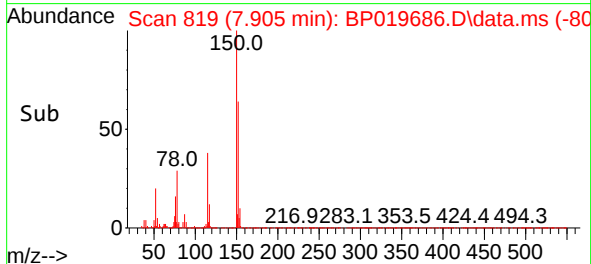
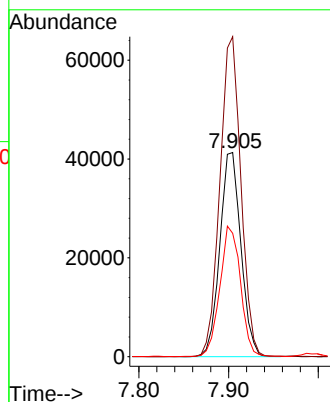
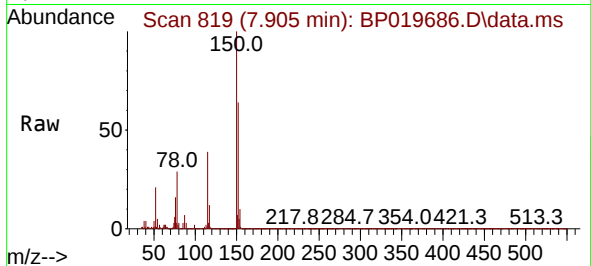
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.905 min Scan# 81
Delta R.T. -0.011 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Instrument :
BNA_P
ClientSampleId :
VNJ-241

Tgt Ion:152 Resp: 67299
Ion Ratio Lower Upper
152 100
150 156.7 121.8 182.8
115 60.4 49.9 74.9

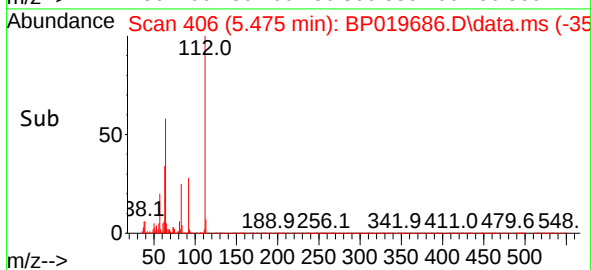
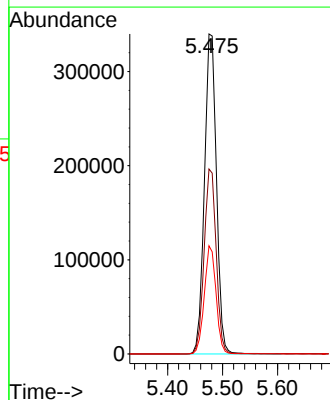
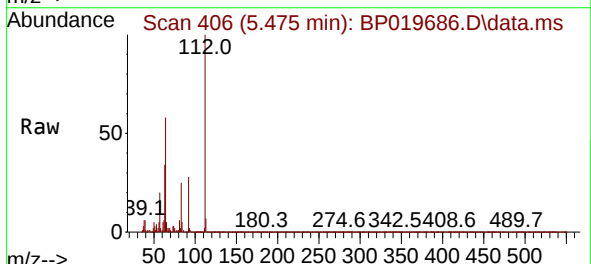
Manual Integrations
APPROVED

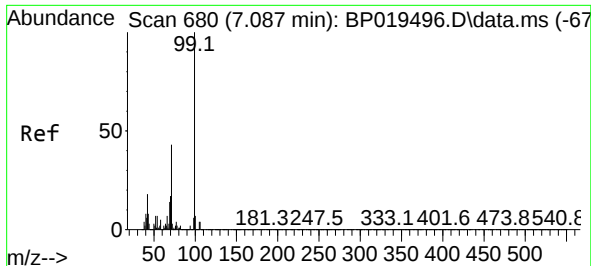
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#5
2-Fluorophenol
Concen: 123.647 ng
RT: 5.475 min Scan# 406
Delta R.T. -0.012 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

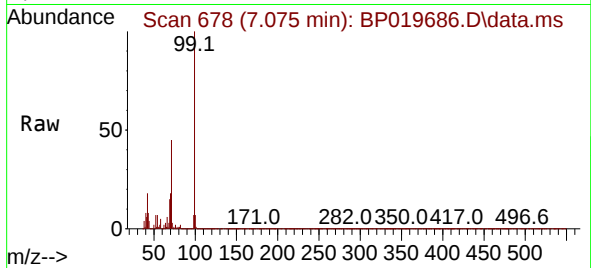
Tgt Ion:112 Resp: 516238
Ion Ratio Lower Upper
112 100
64 57.8 47.4 71.0
63 33.8 27.0 40.6





#7
Phenol-d6
Concen: 119.298 ng
RT: 7.075 min Scan# 61
Delta R.T. -0.012 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

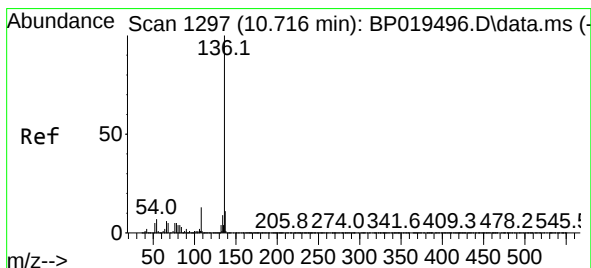
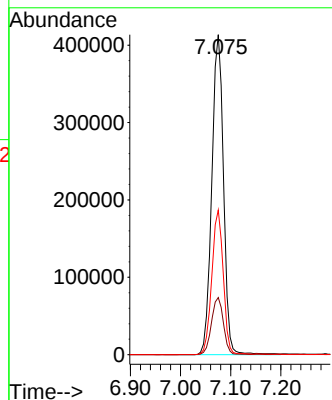
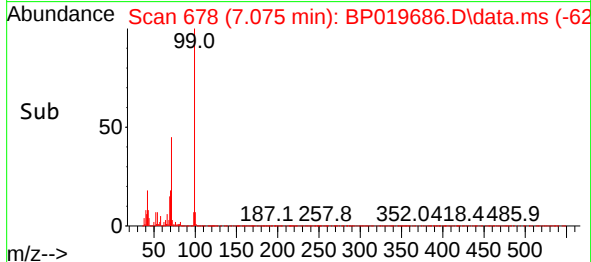
Instrument :
BNA_P
ClientSampleId :
VNJ-241



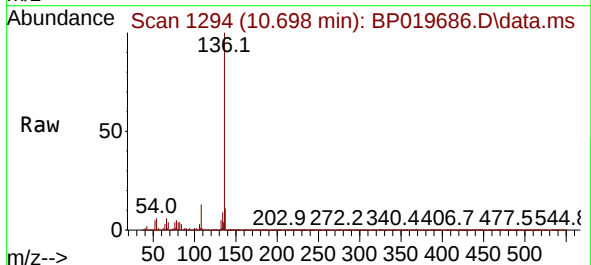
Tgt Ion: 99 Resp: 671590
Ion Ratio Lower Upper
99 100
42 17.9 14.7 22.1
71 45.2 34.8 52.2

Manual Integrations
APPROVED

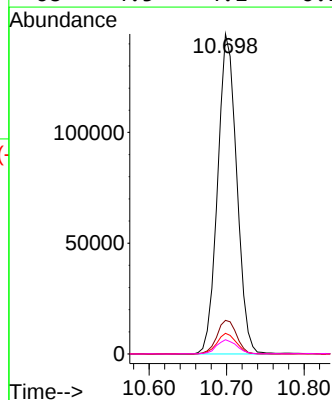
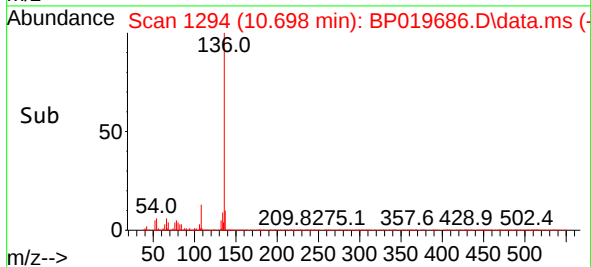
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024

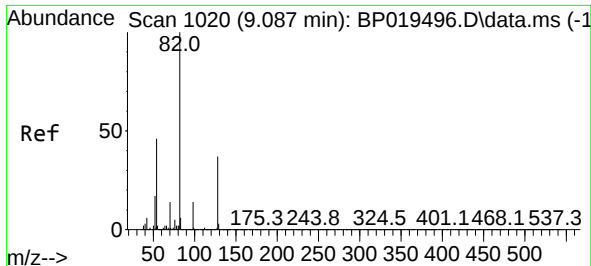


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.698 min Scan# 1294
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58



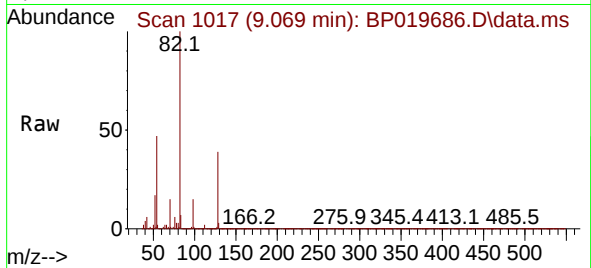
Tgt Ion:136 Resp: 247207
Ion Ratio Lower Upper
136 100
137 10.5 8.8 13.2
54 6.5 5.3 7.9
68 4.5 4.1 6.1





#23
Nitrobenzene-d5
Concen: 81.019 ng
RT: 9.069 min Scan# 1020
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

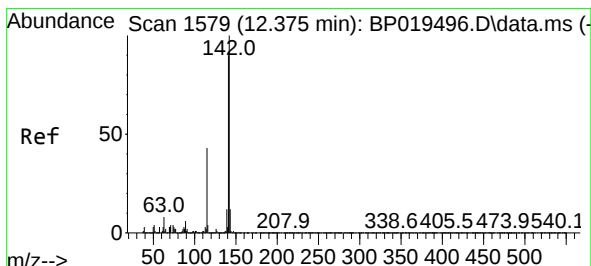
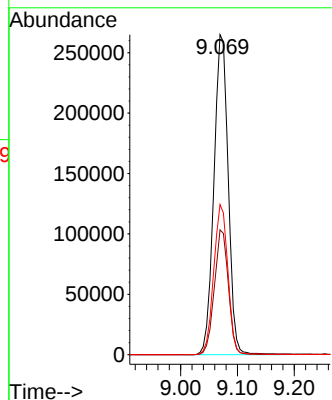
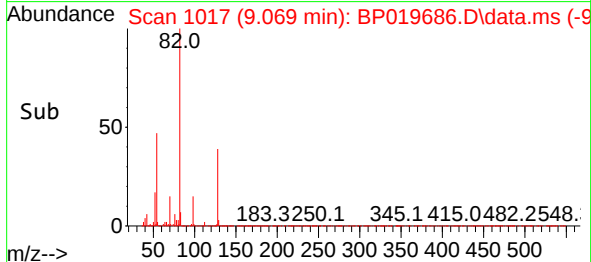
Instrument :
BNA_P
ClientSampleId :
VNJ-241



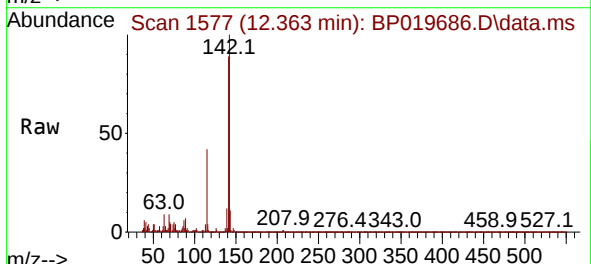
Tgt Ion: 82 Resp: 46221
Ion Ratio Lower Upper
82 100
128 39.0 29.7 44.5
54 46.9 36.8 55.2

Manual Integrations
APPROVED

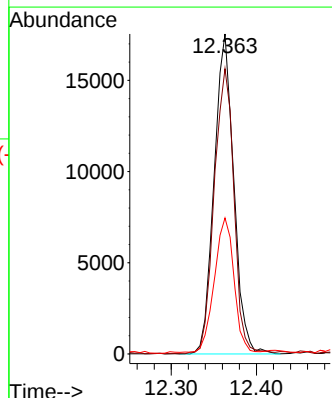
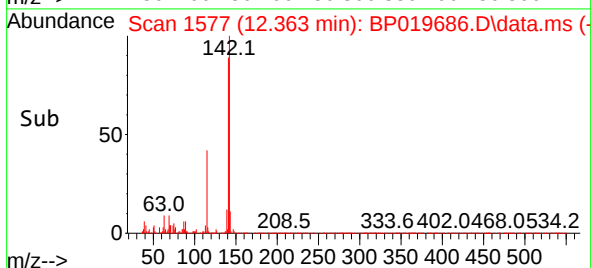
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024

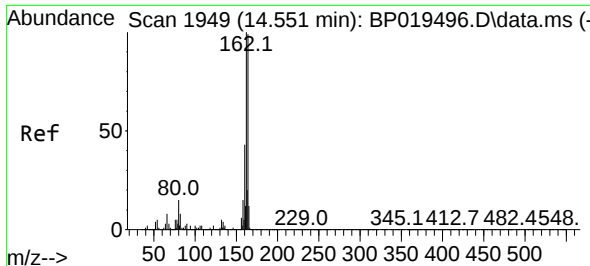


#37
2-Methylnaphthalene
Concen: 2.997 ng
RT: 12.363 min Scan# 1577
Delta R.T. -0.012 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58



Tgt Ion:142 Resp: 28122
Ion Ratio Lower Upper
142 100
141 89.2 72.2 108.4
115 42.5 34.2 51.2





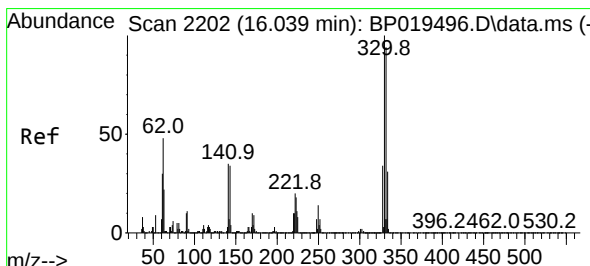
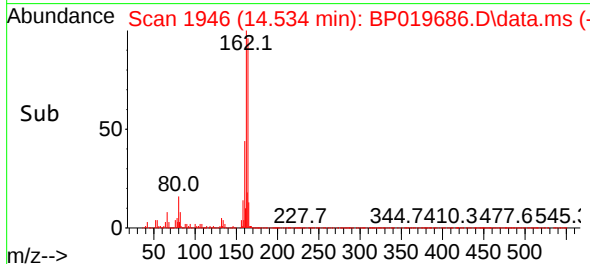
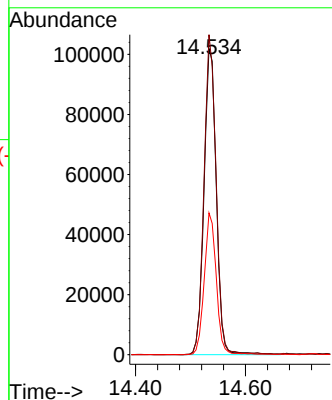
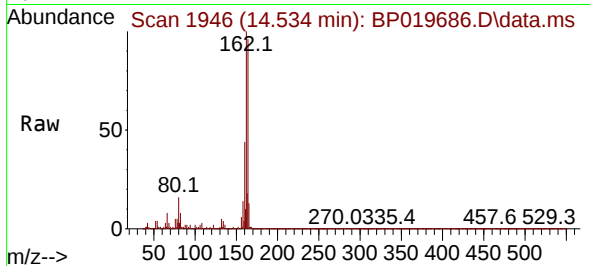
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.534 min Scan# 1946
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Instrument :
BNA_P
ClientSampleId :
VNJ-241

Tgt Ion:164 Resp: 158519
Ion Ratio Lower Upper
164 100
162 104.6 81.2 121.8
160 46.3 35.1 52.7

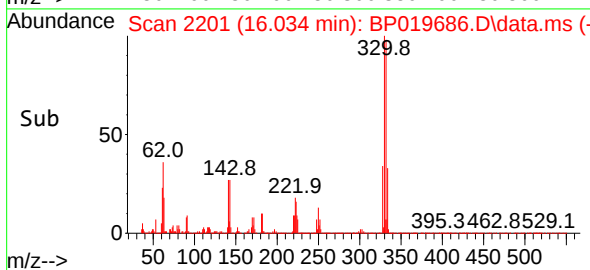
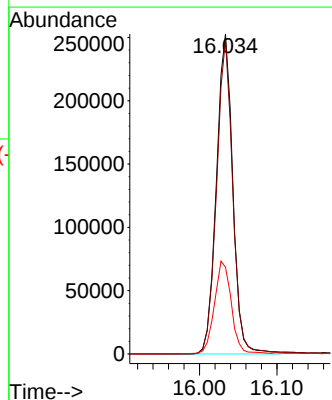
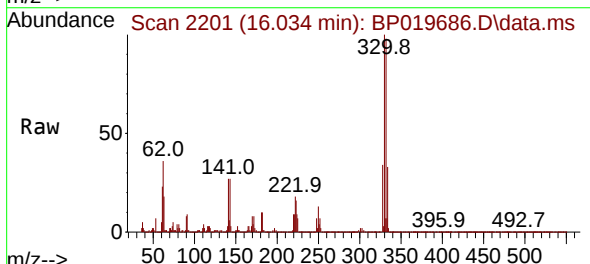
Manual Integrations
APPROVED

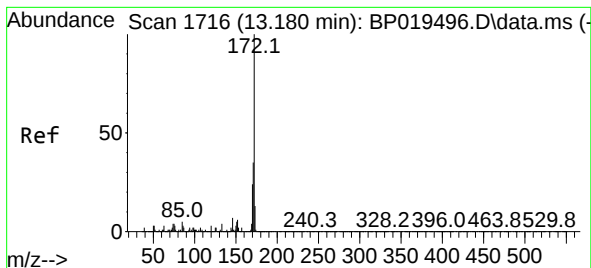
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#42
2,4,6-Tribromophenol
Concen: 160.428 ng
RT: 16.034 min Scan# 2201
Delta R.T. -0.006 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

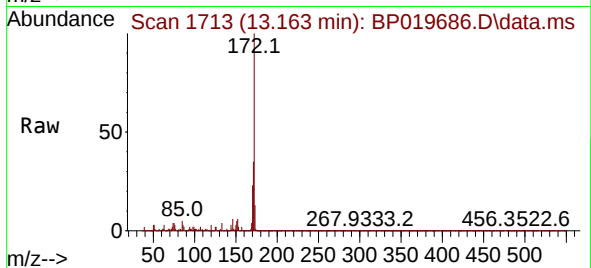
Tgt Ion:330 Resp: 371310
Ion Ratio Lower Upper
330 100
332 97.4 77.2 115.8
141 29.8 27.0 40.4





#45
2-Fluorobiphenyl
Concen: 81.680 ng
RT: 13.163 min Scan# 11
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

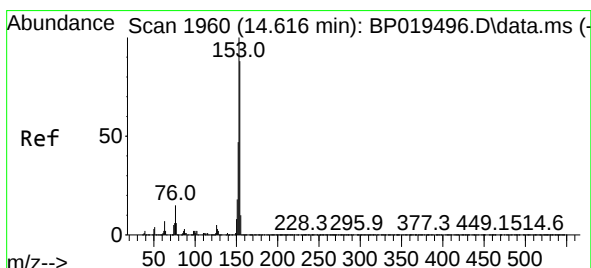
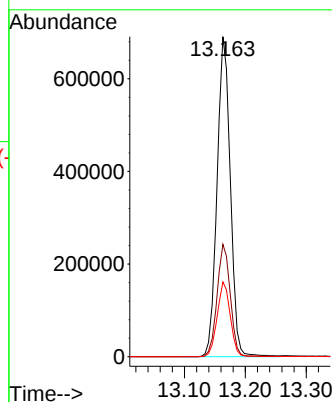
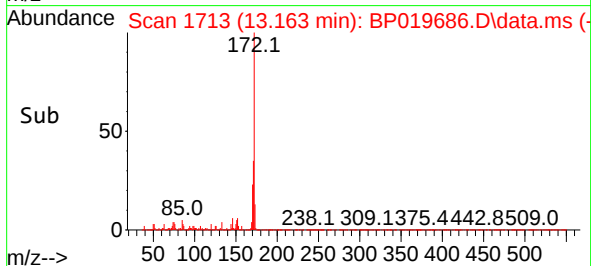
Instrument :
BNA_P
ClientSampleId :
VNJ-241



Tgt Ion:172 Resp: 1047364
Ion Ratio Lower Upper
172 100
171 35.1 28.2 42.4
170 23.4 18.9 28.3

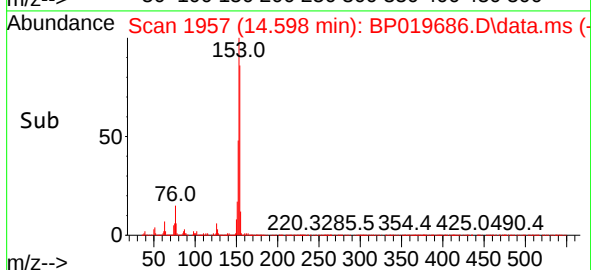
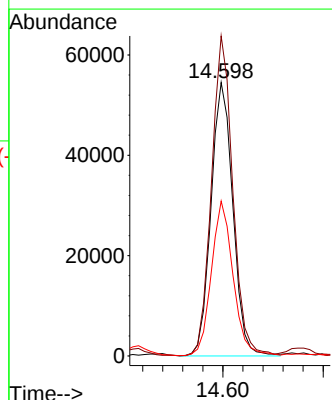
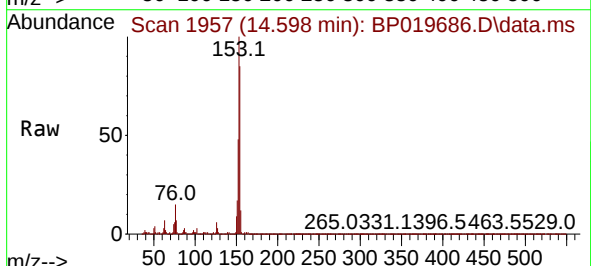
Manual Integrations
APPROVED

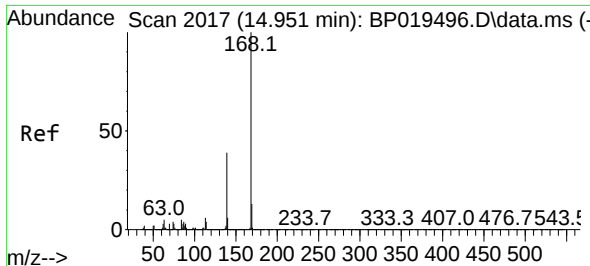
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#52
Acenaphthene
Concen: 9.119 ng
RT: 14.598 min Scan# 1957
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

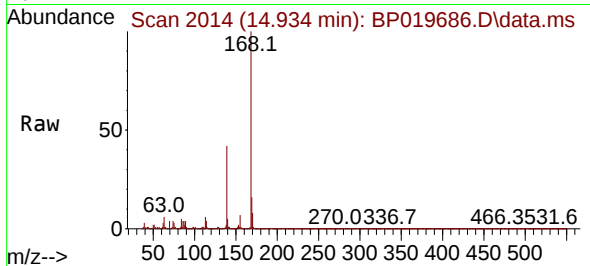
Tgt Ion:154 Resp: 82463
Ion Ratio Lower Upper
154 100
153 117.0 90.5 135.7
152 56.6 42.1 63.1





#55
Dibenzenofuran
Concen: 8.411 ng
RT: 14.934 min Scan# 2014
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

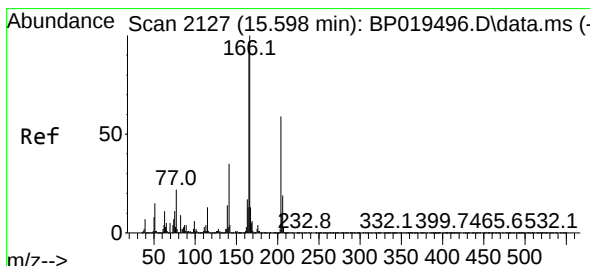
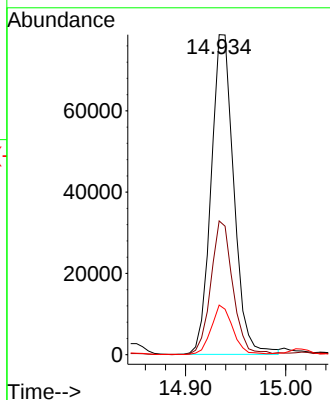
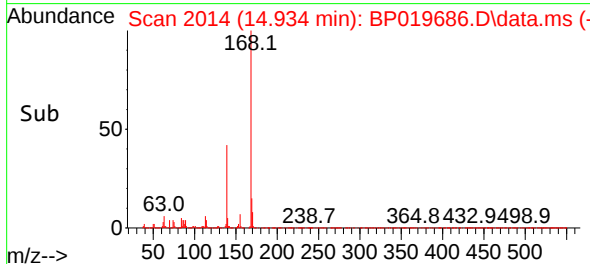
Instrument :
BNA_P
ClientSampleId :
VNJ-241



Tgt Ion:168 Resp: 12388
Ion Ratio Lower Upper
168 100
139 41.8 31.5 47.3
169 15.5 10.3 15.5

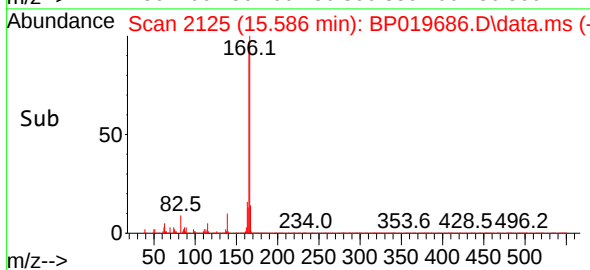
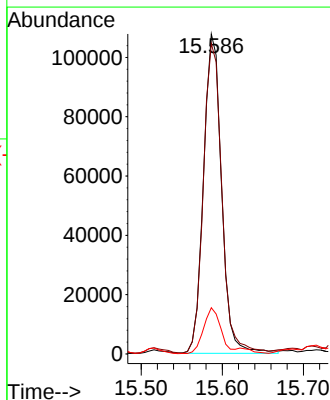
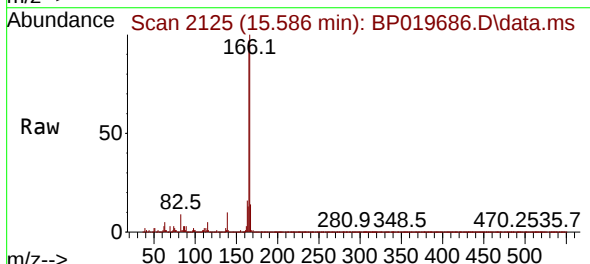
Manual Integrations
APPROVED

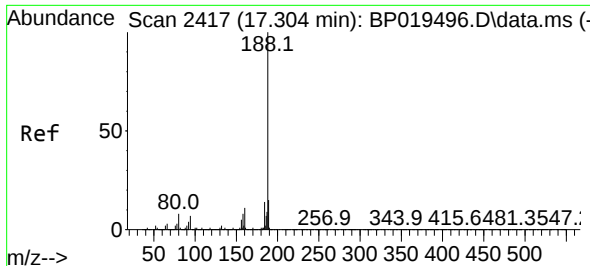
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#58
Fluorene
Concen: 14.159 ng
RT: 15.586 min Scan# 2125
Delta R.T. -0.012 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Tgt Ion:166 Resp: 166107
Ion Ratio Lower Upper
166 100
165 97.0 77.8 116.8
167 14.5 10.7 16.1





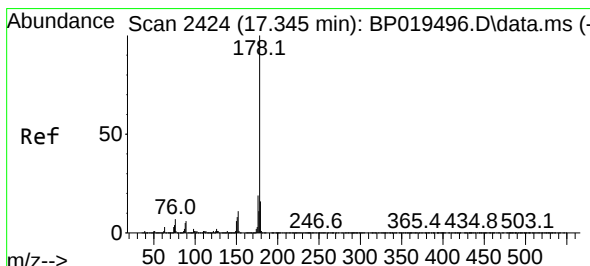
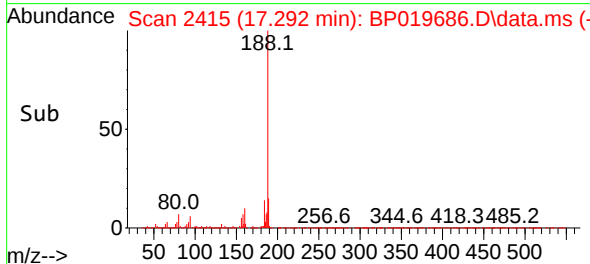
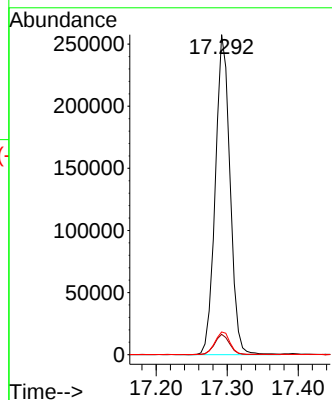
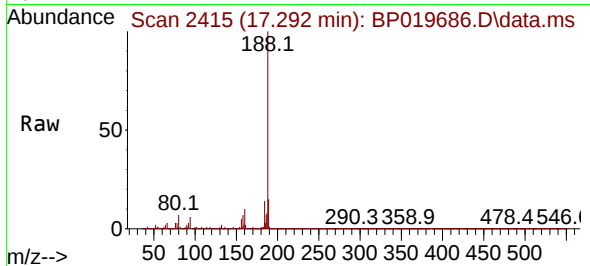
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.292 min Scan# 2415
Delta R.T. -0.012 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Instrument :
BNA_P
ClientSampleId :
VNJ-241

Tgt Ion:188 Resp: 369120
Ion Ratio Lower Upper
188 100
94 6.4 5.4 8.2
80 7.1 6.3 9.5

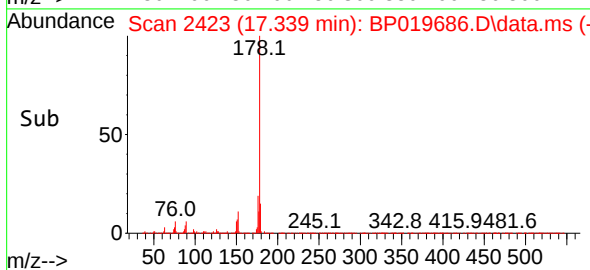
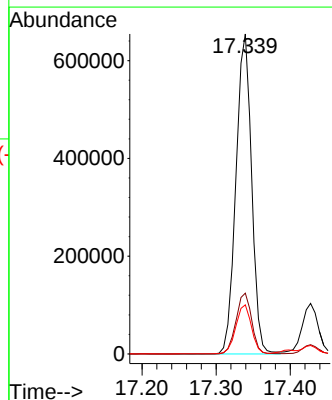
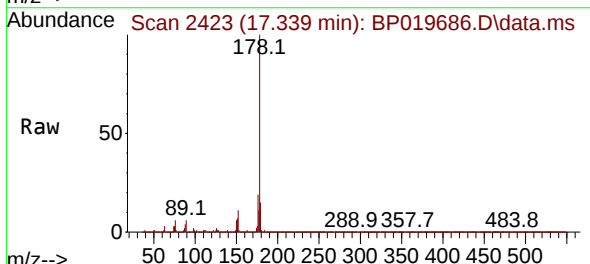
Manual Integrations
APPROVED

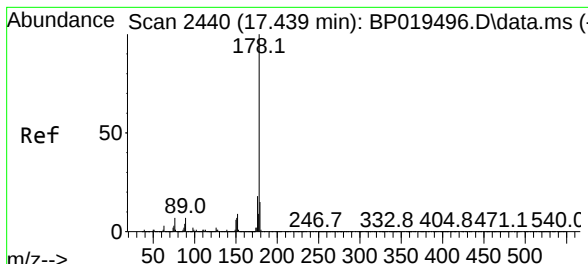
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#71
Phenanthrene
Concen: 49.411 ng
RT: 17.339 min Scan# 2423
Delta R.T. -0.006 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Tgt Ion:178 Resp: 959850
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.4 12.6 19.0





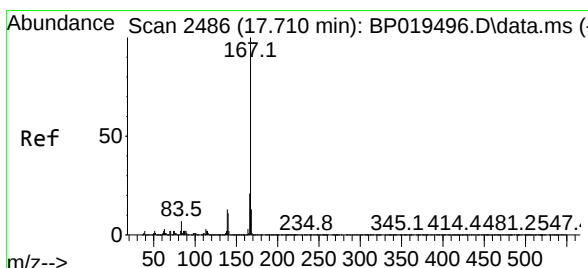
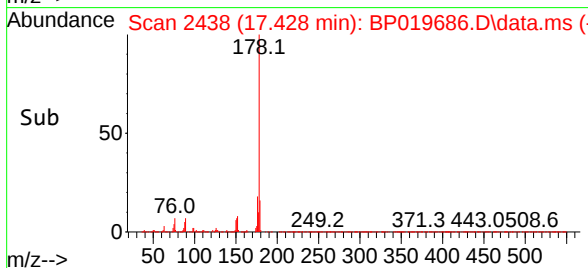
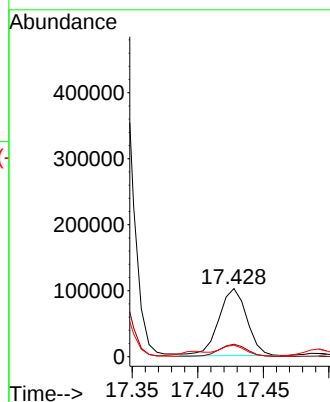
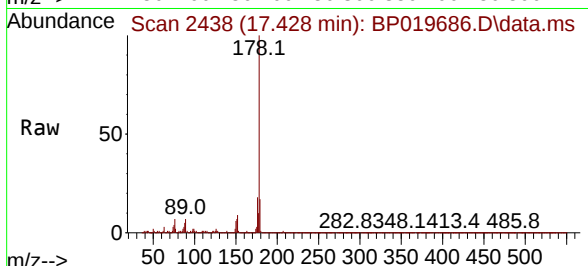
#72
 Anthracene
 Concen: 7.829 ng
 RT: 17.428 min Scan# 2440
 Delta R.T. -0.012 min
 Lab File: BP019686.D
 Acq: 13 Feb 2024 19:58

Instrument :
 BNA_P
 ClientSampleId :
 VNJ-241

Tgt Ion:178 Resp: 15171
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.7 22.1
 179 16.8 12.2 18.2

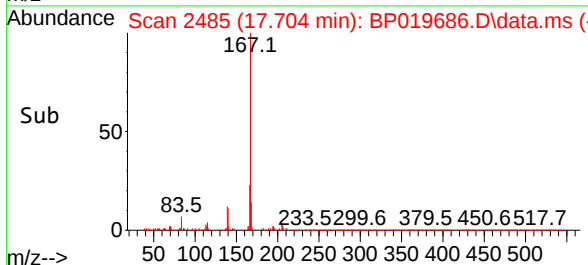
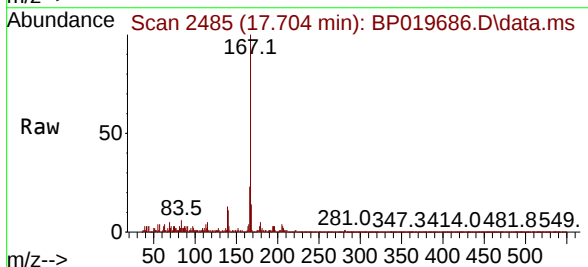
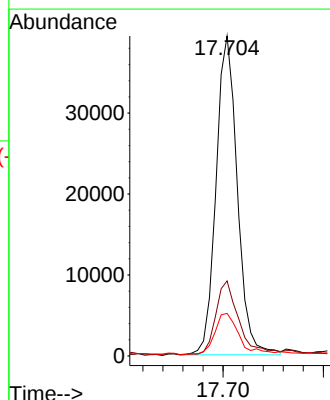
Manual Integrations
 APPROVED

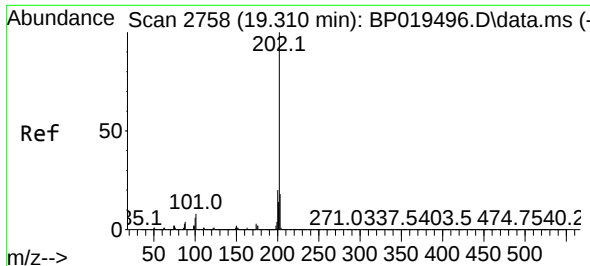
Reviewed By :Yogesh Patel 02/15/2024
 Supervised By :mohammad ahmed 02/15/2024



#73
 Carbazole
 Concen: 3.297 ng
 RT: 17.704 min Scan# 2485
 Delta R.T. -0.006 min
 Lab File: BP019686.D
 Acq: 13 Feb 2024 19:58

Tgt Ion:167 Resp: 58033
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.2 25.8
 139 13.3 10.6 15.8





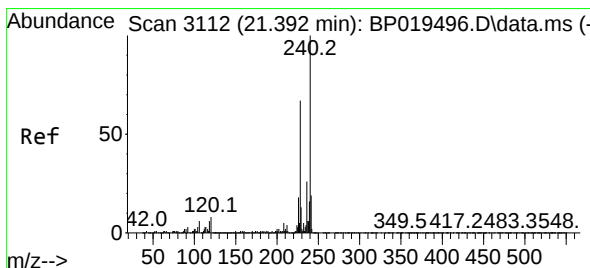
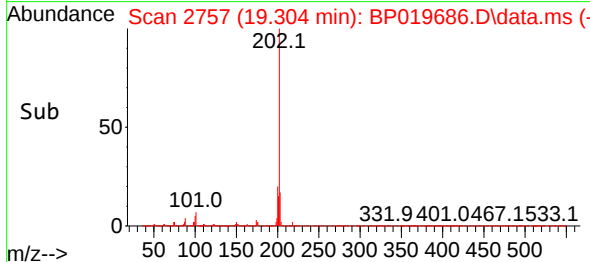
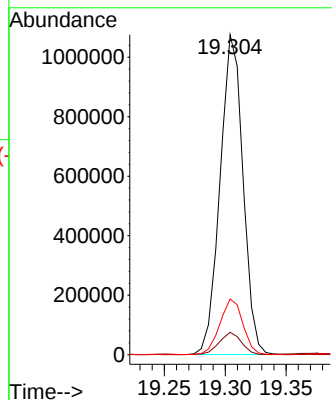
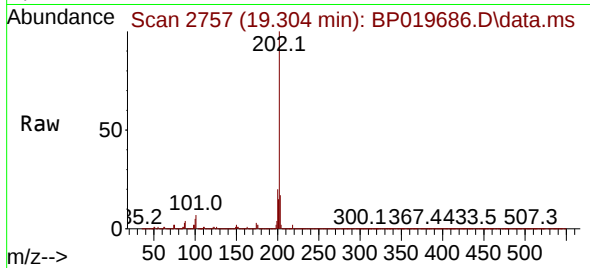
#75
Fluoranthene
Concen: 59.295 ng
RT: 19.304 min Scan# 2111
Delta R.T. -0.006 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Instrument :
BNA_P
ClientSampleId :
VNJ-241

Tgt Ion:202 Resp: 140711
Ion Ratio Lower Upper
202 100
101 7.0 0.0 27.7
203 17.4 0.0 37.5

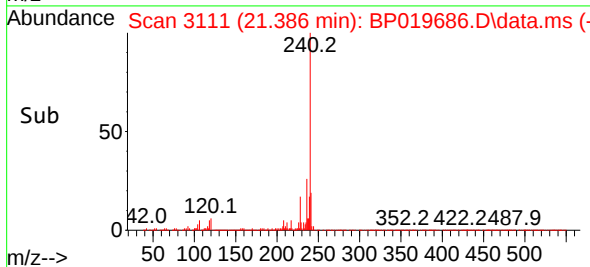
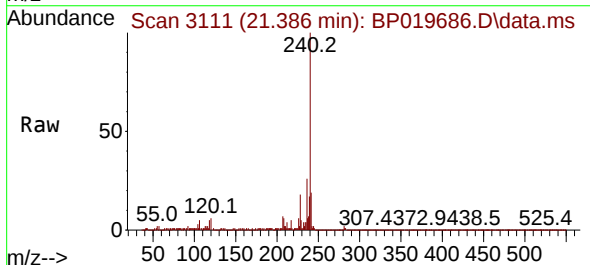
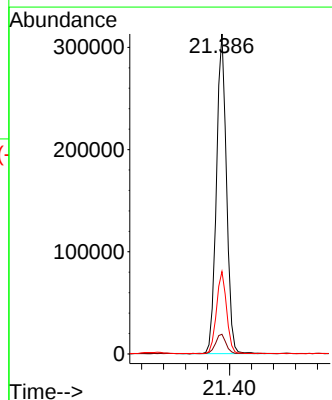
Manual Integrations
APPROVED

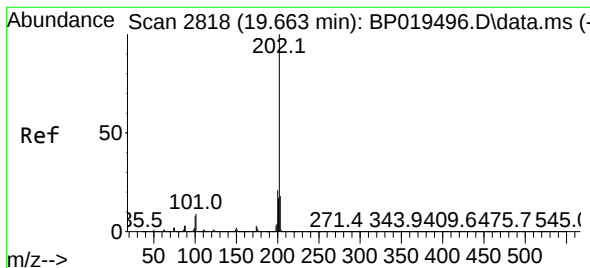
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Tgt Ion:240 Resp: 397861
Ion Ratio Lower Upper
240 100
120 6.1 6.1 9.1
236 25.8 20.7 31.1





#78

Pyrene

Concen: 33.573 ng

RT: 19.657 min Scan# 2817

Delta R.T. -0.006 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Instrument :

BNA_P

ClientSampleId :

VNJ-241

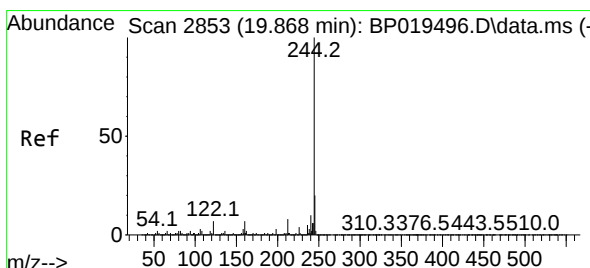
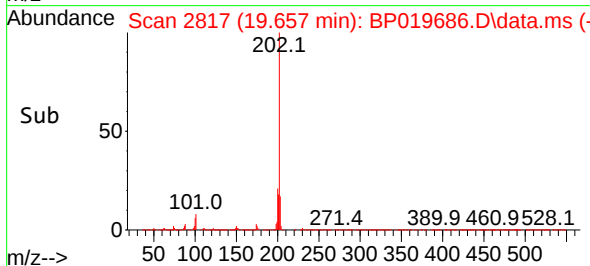
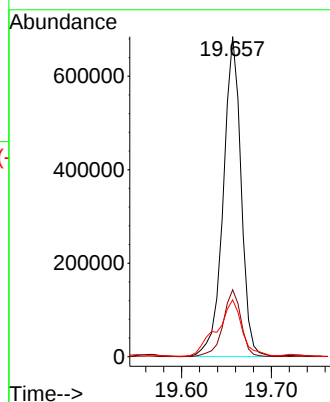
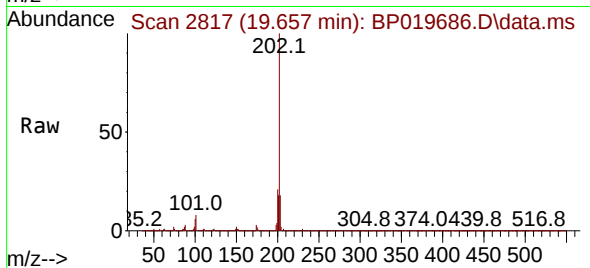
Tgt Ion:	202	Resp:	942700
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.9	25.3
203	17.8	14.2	21.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#79

Terphenyl-d14

Concen: 80.180 ng

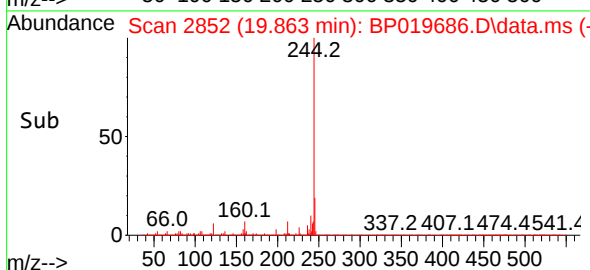
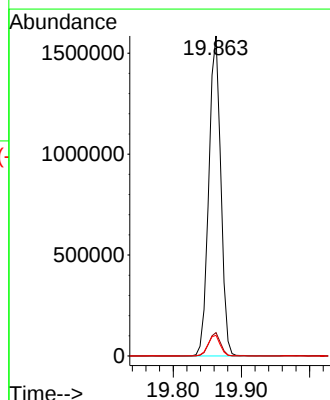
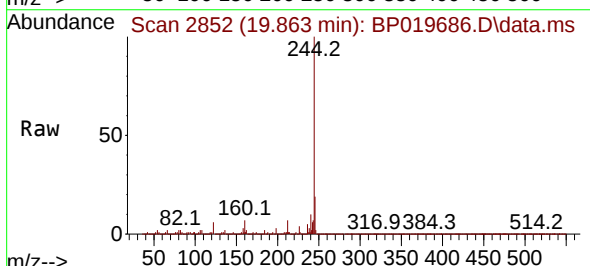
RT: 19.863 min Scan# 2852

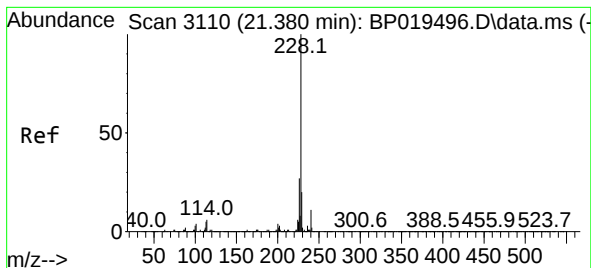
Delta R.T. -0.006 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Tgt Ion:	244	Resp:	1939779
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.1	9.1
122	6.5	5.9	8.9





#81

Benzo(a)anthracene

Concen: 12.106 ng

RT: 21.369 min Scan# 3110

Delta R.T. -0.012 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Instrument :

BNA_P

ClientSampleId :

VNJ-241

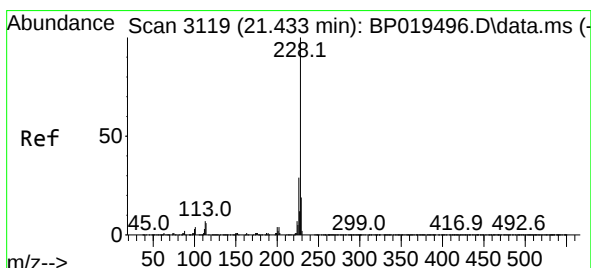
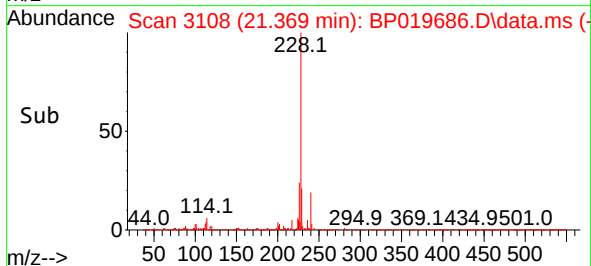
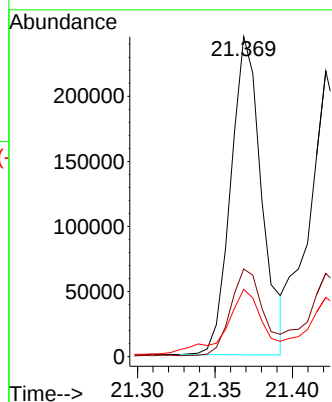
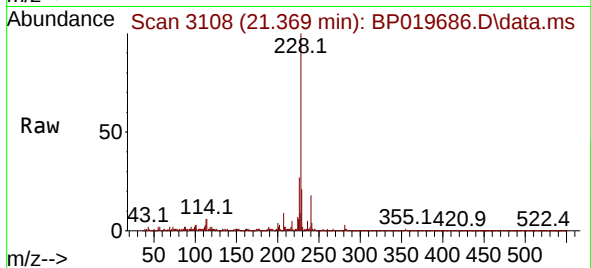
Tgt Ion:228 Resp: 339050
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.7 32.5
 229 21.0 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#83

Chrysene

Concen: 12.250 ng

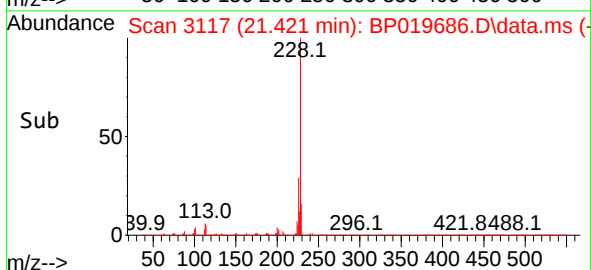
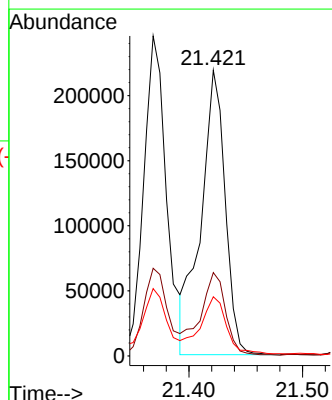
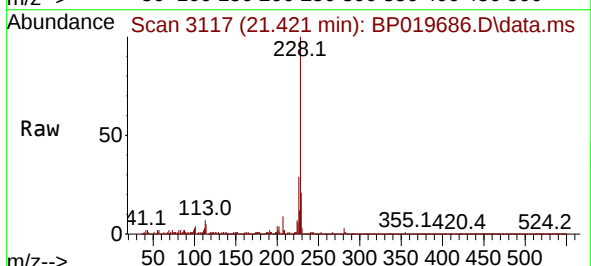
RT: 21.421 min Scan# 3117

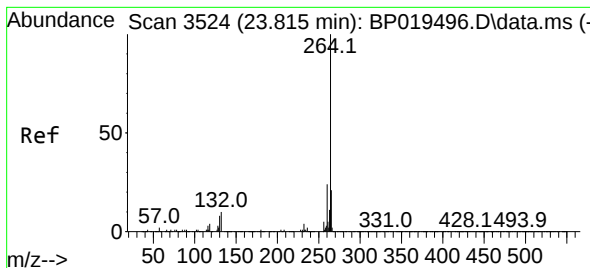
Delta R.T. -0.012 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Tgt Ion:228 Resp: 325735
 Ion Ratio Lower Upper
 228 100
 226 29.2 23.4 35.2
 229 20.7 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.804 min Scan# 3

Delta R.T. -0.012 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Instrument :

BNA_P

ClientSampleId :

VNJ-241

Tgt Ion:264 Resp: 474140

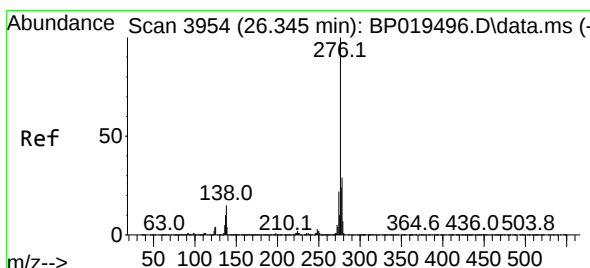
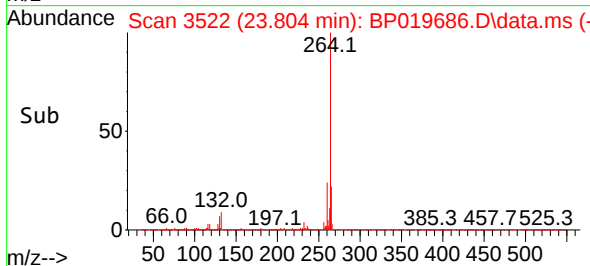
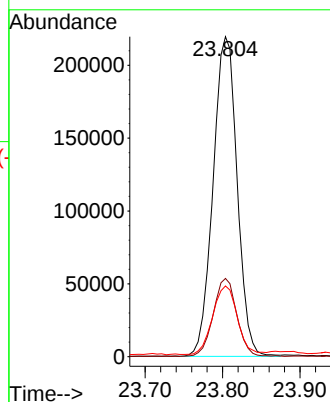
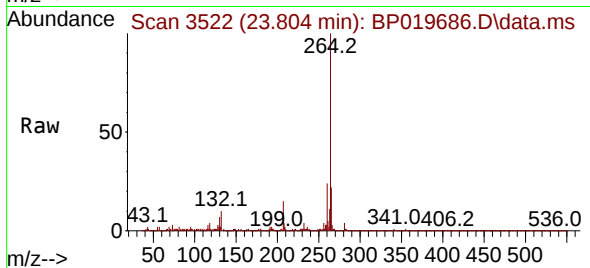
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.1	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.591 ng

RT: 26.321 min Scan# 3950

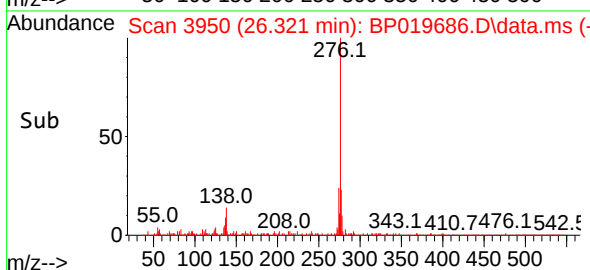
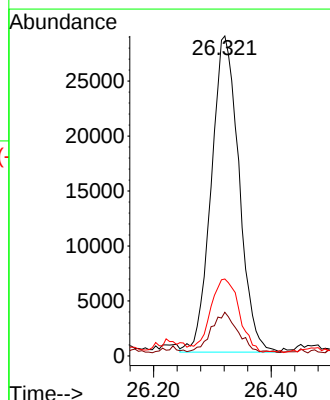
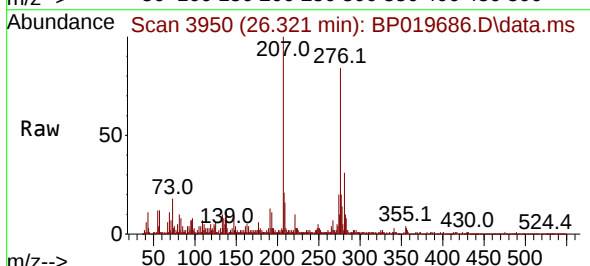
Delta R.T. -0.023 min

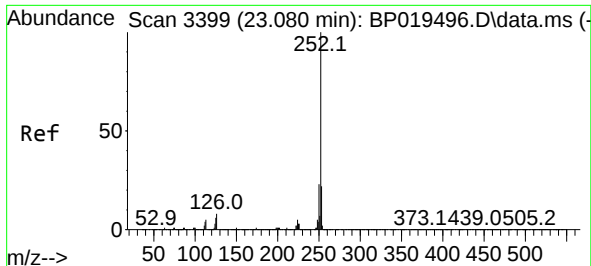
Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Tgt Ion:276 Resp: 94053

Ion	Ratio	Lower	Upper
276	100		
138	12.7	13.1	19.7#
277	23.7	20.3	30.5





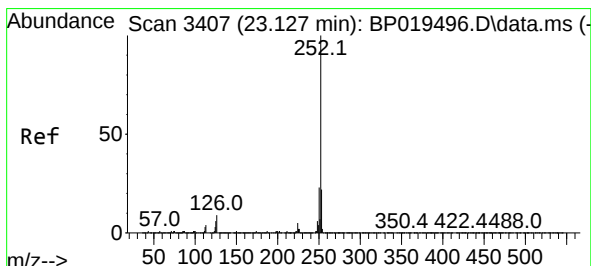
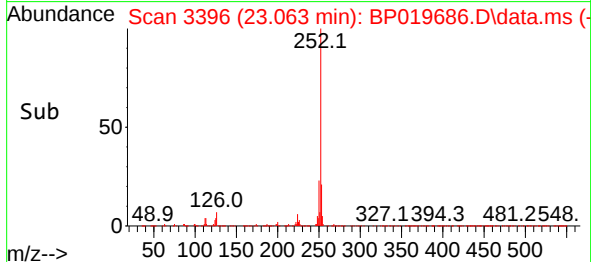
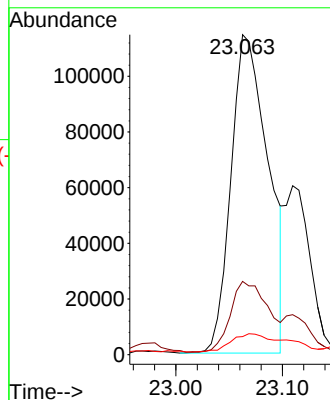
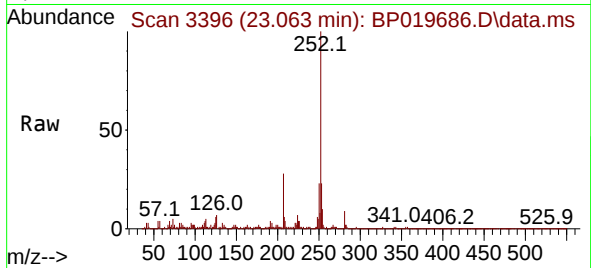
#88
Benzo(b)fluoranthene
Concen: 9.295 ng
RT: 23.063 min Scan# 31
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Instrument :
BNA_P
ClientSampleId :
VNJ-241

Tgt Ion:252 Resp: 277769
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 5.6 4.9 7.3

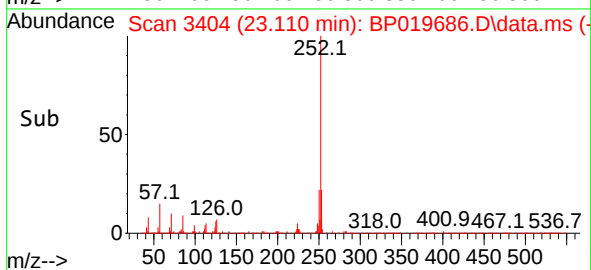
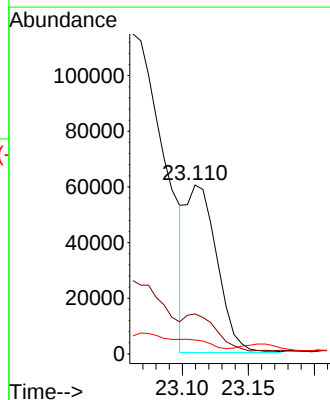
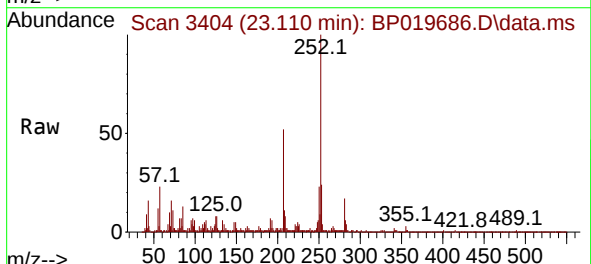
Manual Integrations
APPROVED

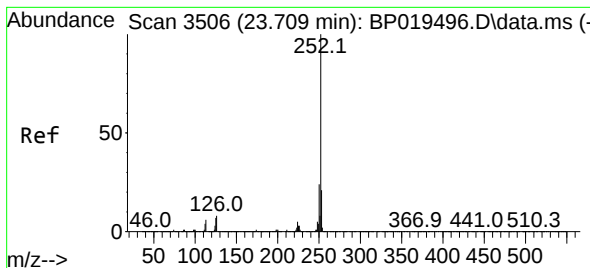
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#89
Benzo(k)fluoranthene
Concen: 3.451 ng m
RT: 23.110 min Scan# 3404
Delta R.T. -0.017 min
Lab File: BP019686.D
Acq: 13 Feb 2024 19:58

Tgt Ion:252 Resp: 98500
Ion Ratio Lower Upper
252 100
253 23.7 17.1 25.7
125 8.3 5.0 7.6#





#90

Benzo(a)pyrene

Concen: 5.606 ng

RT: 23.692 min Scan# 3506

Delta R.T. -0.017 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Instrument :

BNA_P

ClientSampleId :

VNJ-241

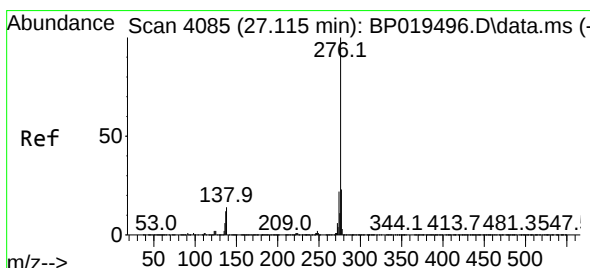
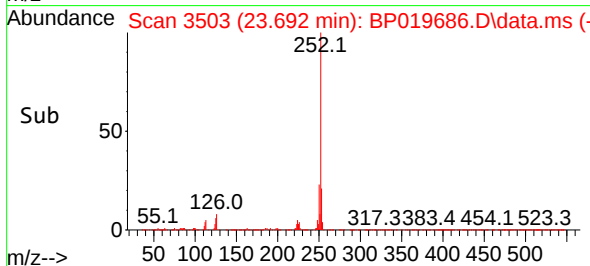
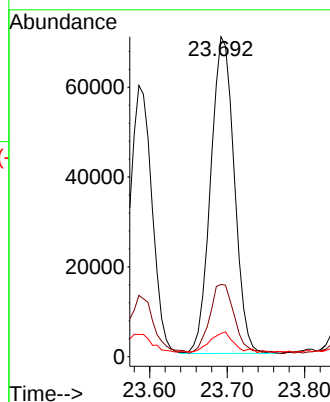
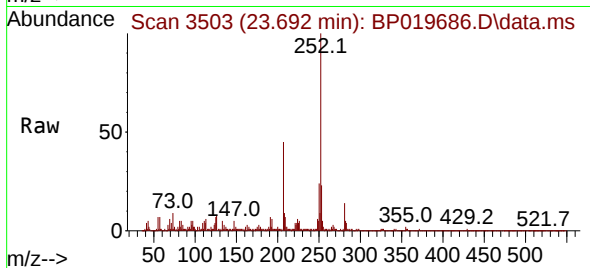
Tgt Ion:	252	Resp:	14905
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.1	25.7
125	7.2	5.6	8.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#92

Benzo(g,h,i)perylene

Concen: 2.817 ng

RT: 27.092 min Scan# 4081

Delta R.T. -0.023 min

Lab File: BP019686.D

Acq: 13 Feb 2024 19:58

Tgt Ion:	276	Resp:	85305
Ion Ratio	Lower	Upper	
276	100		
277	23.3	18.6	28.0
138	13.2	10.9	16.3

