

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080425\
 Data File : BF143303.D
 Acq On : 04 Aug 2025 18:32
 Operator : RC/JU
 Sample : Q2734-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-253

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/05/2025
 Supervised By :Jagrut Upadhyay 08/05/2025

Quant Time: Aug 05 00:52:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	107550	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	377002	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	165153	20.000	ng	0.00
64) Phenanthrene-d10	11.480	188	272147	20.000	ng	0.00
76) Chrysene-d12	14.127	240	243744	20.000	ng	0.00
86) Perylene-d12	15.639	264	174997	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	375209	55.207	ng	0.00
7) Phenol-d6	6.581	99	462656	54.083	ng	0.00
23) Nitrobenzene-d5	7.516	82	291230	38.506	ng	0.00
42) 2,4,6-Tribromophenol	10.780	330	93807	54.983	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	489217	40.512	ng	0.00
79) Terphenyl-d14	13.068	244	492692	30.080	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.504	178	160669	11.119	ng	100
72) Anthracene	11.557	178	44438	3.015	ng	98
75) Fluoranthene	12.698	202	489144	36.879	ng	98
78) Pyrene	12.927	202	485741	23.350	ng	98
81) Benzo(a)anthracene	14.115	228	270090	16.551	ng	96
83) Chrysene	14.151	228	227128	15.480	ng	96
87) Indeno(1,2,3-cd)pyrene	17.180	276	72642	5.887	ng	94
88) Benzo(b)fluoranthene	15.192	252	219769m	20.557	ng	
89) Benzo(k)fluoranthene	15.209	252	68738m	7.205	ng	
90) Benzo(a)pyrene	15.574	252	140350	14.249	ng	# 92
92) Benzo(g,h,i)perylene	17.645	276	70644	7.271	ng	94

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

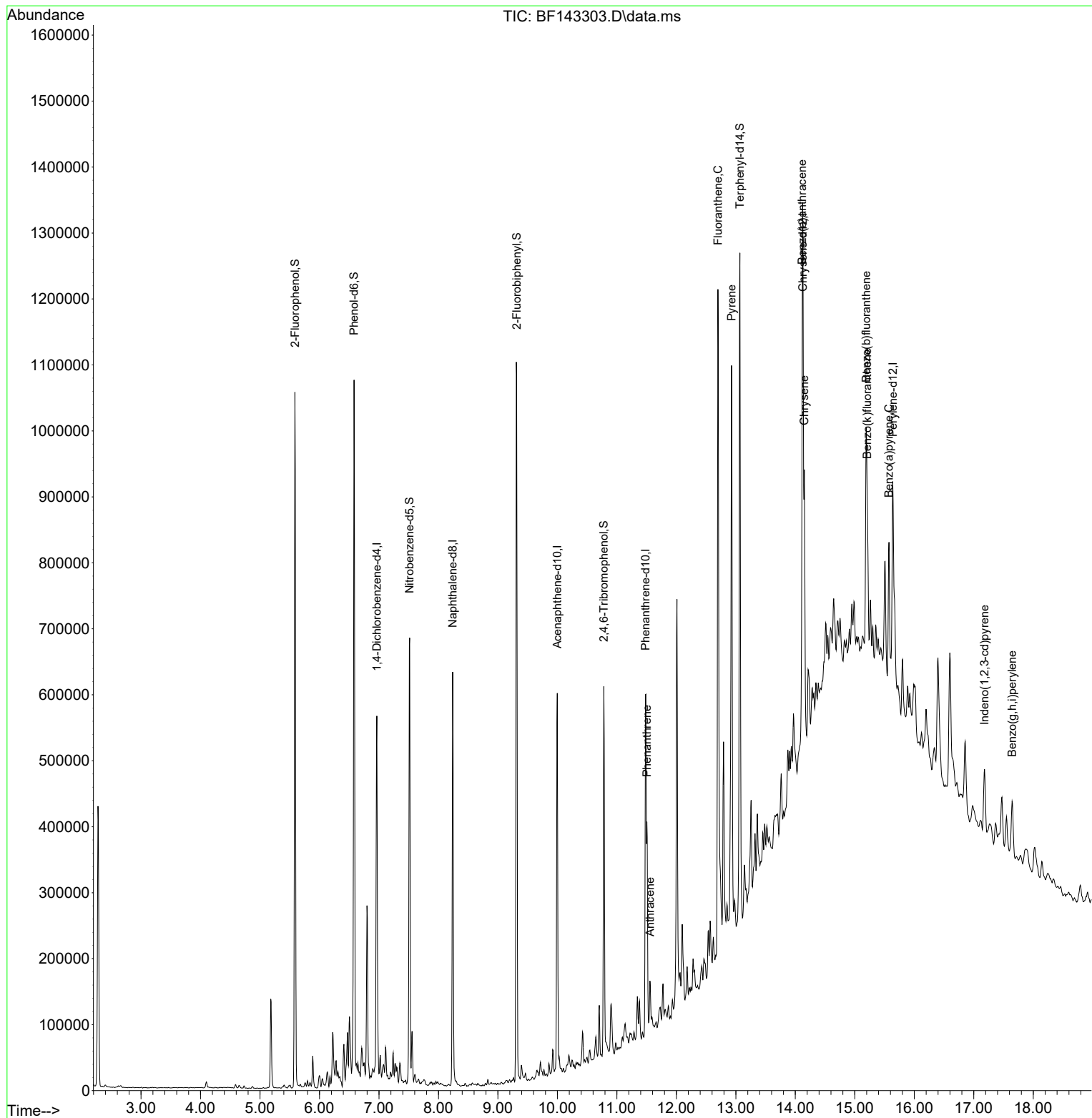
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080425\
Data File : BF143303.D
Acq On : 04 Aug 2025 18:32
Operator : RC/JU
Sample : Q2734-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

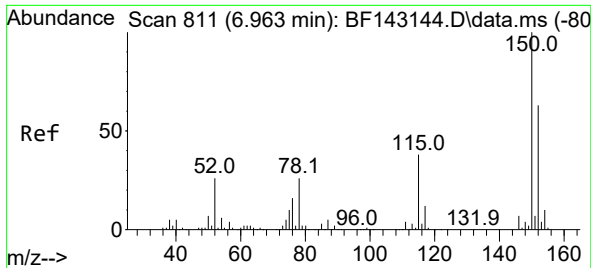
Instrument :
BNA_F
ClientSampleId :
VNJ-253

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

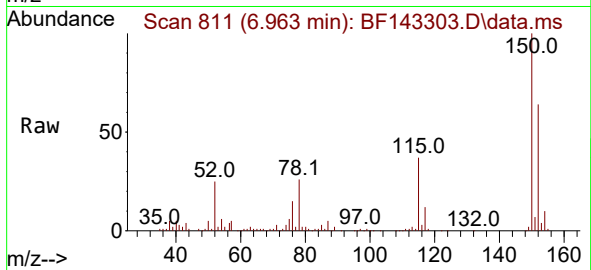
Quant Time: Aug 05 00:52:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32

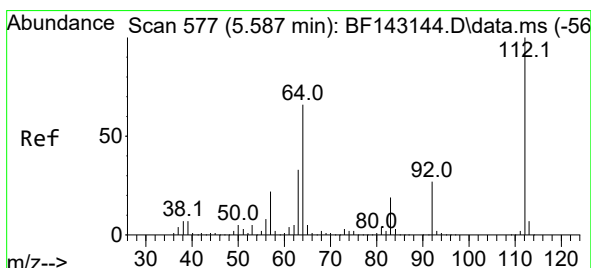
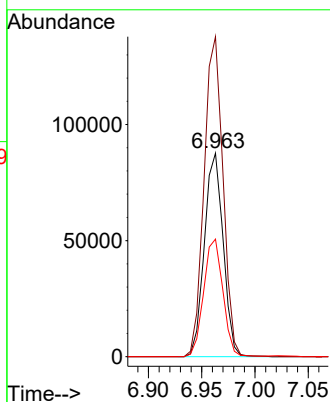
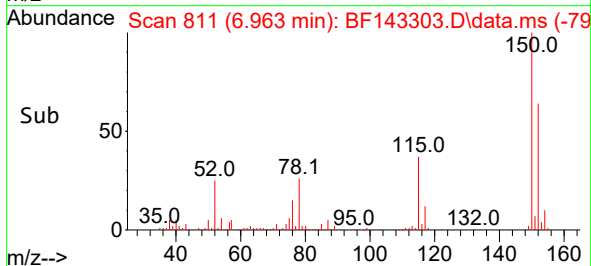
Instrument :
BNA_F
ClientSampleId :
VNJ-253



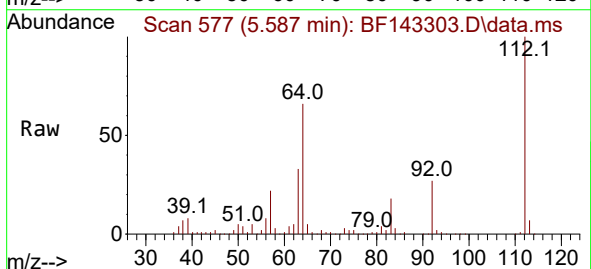
Tgt Ion:152 Resp: 107550
Ion Ratio Lower Upper
152 100
150 157.3 128.2 192.4
115 57.8 47.9 71.9

Manual Integrations
APPROVED

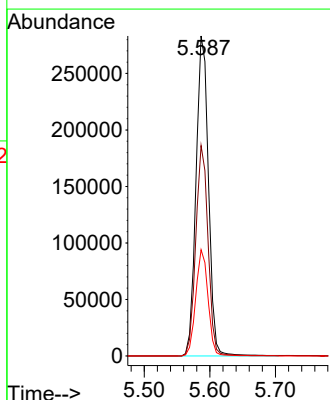
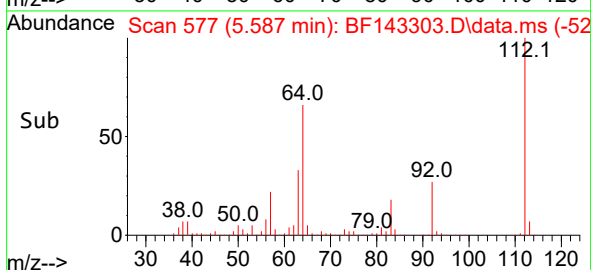
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

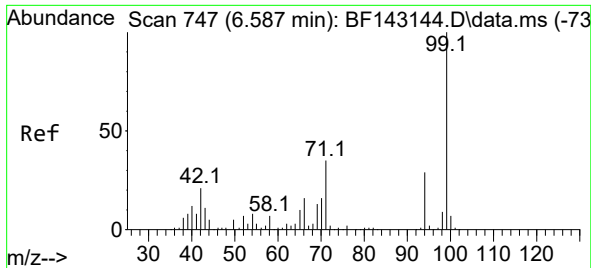


#5
2-Fluorophenol
Concen: 55.207 ng
RT: 5.587 min Scan# 577
Delta R.T. -0.000 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32



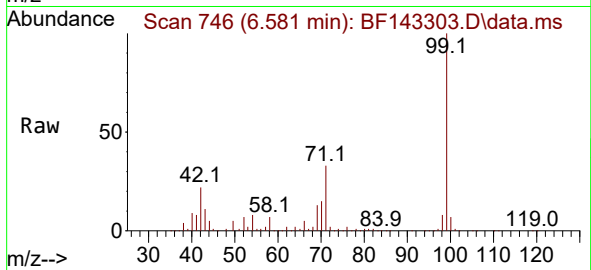
Tgt Ion:112 Resp: 375209
Ion Ratio Lower Upper
112 100
64 65.7 53.1 79.7
63 33.2 26.6 40.0





#7
Phenol-d6
Concen: 54.083 ng
RT: 6.581 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32

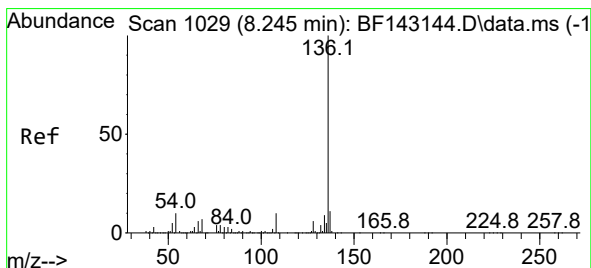
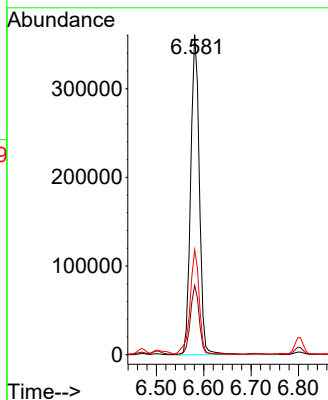
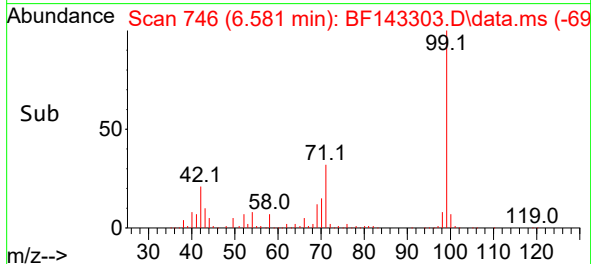
Instrument :
BNA_F
ClientSampleId :
VNJ-253



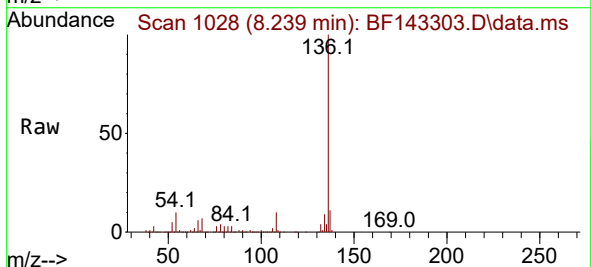
Tgt Ion: 99 Resp: 462650
Ion Ratio Lower Upper
99 100
42 21.6 17.0 25.6
71 32.8 27.7 41.5

Manual Integrations
APPROVED

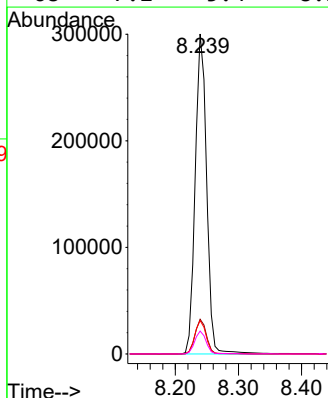
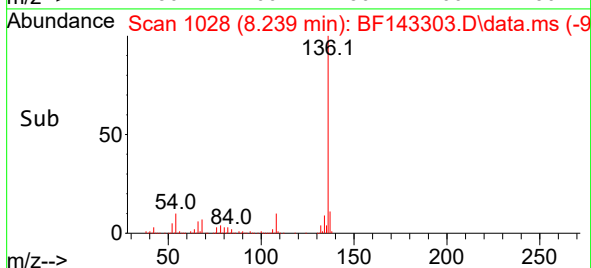
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

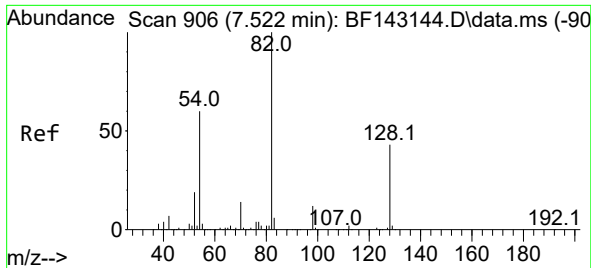


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32



Tgt Ion:136 Resp: 377002
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 10.5 8.2 12.2
68 7.2 5.4 8.2





#23

Nitrobenzene-d5

Concen: 38.506 ng

RT: 7.516 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Instrument :

BNA_F

ClientSampleId :

VNJ-253

Tgt Ion: 82 Resp: 291230

Ion Ratio Lower Upper

82 100

128 43.3 33.6 50.4

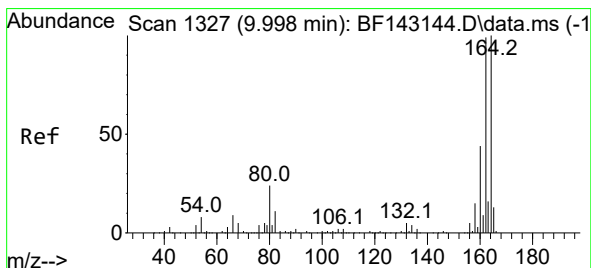
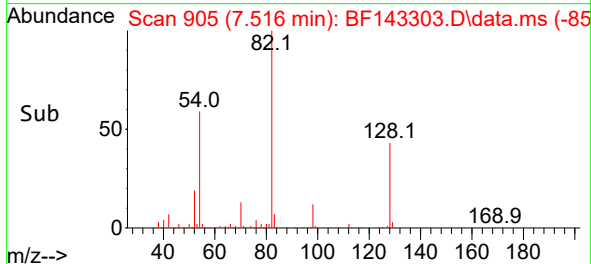
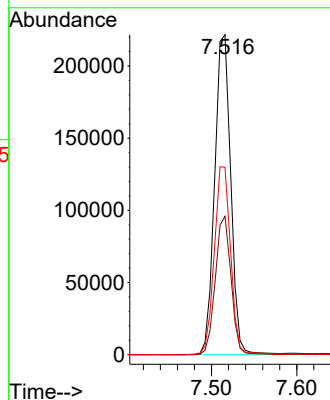
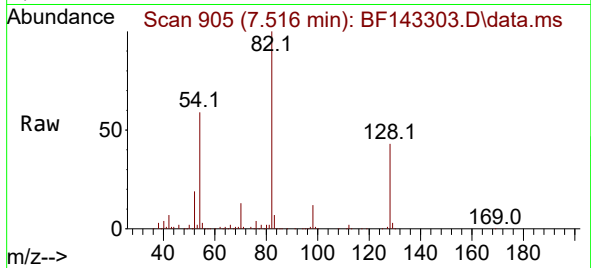
54 58.6 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

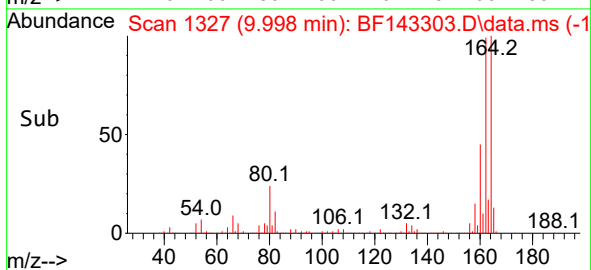
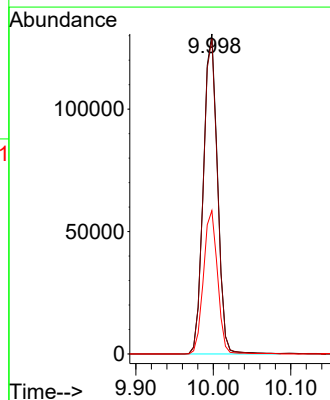
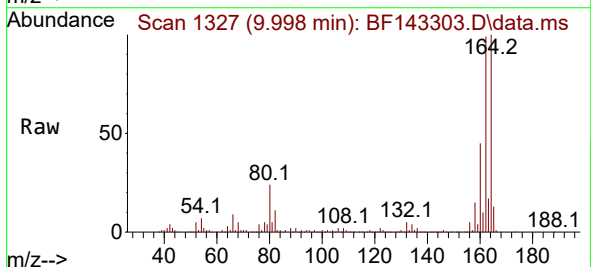
Tgt Ion:164 Resp: 165153

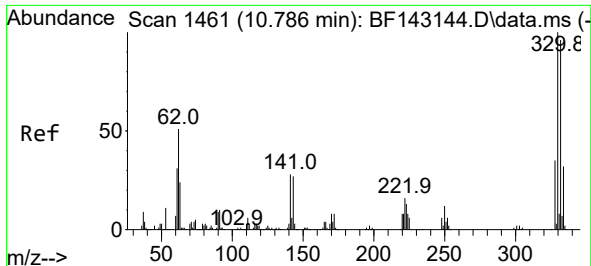
Ion Ratio Lower Upper

164 100

162 98.5 79.0 118.6

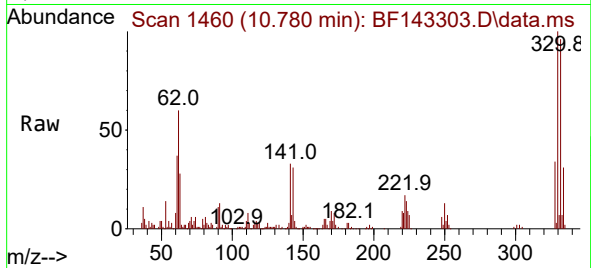
160 44.8 35.1 52.7





#42
2,4,6-Tribromophenol
Concen: 54.983 ng
RT: 10.780 min Scan# 1461
Delta R.T. -0.006 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32

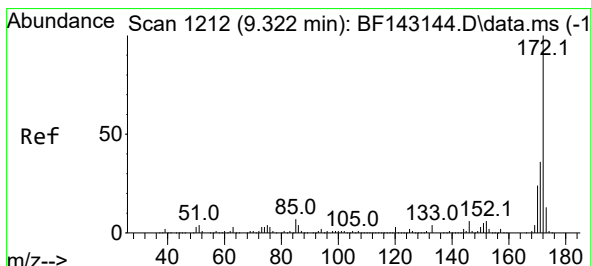
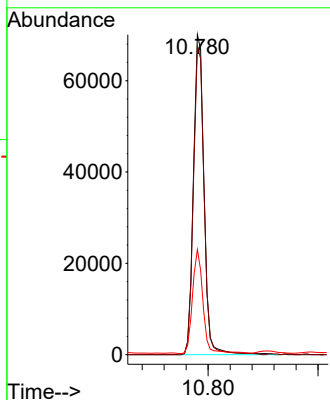
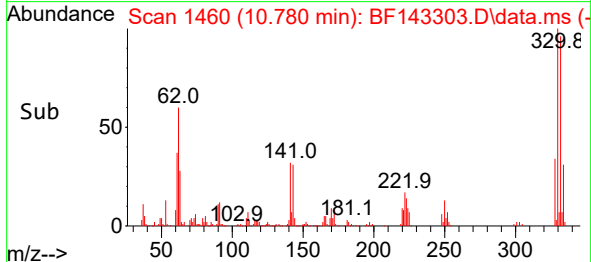
Instrument :
BNA_F
ClientSampleId :
VNJ-253



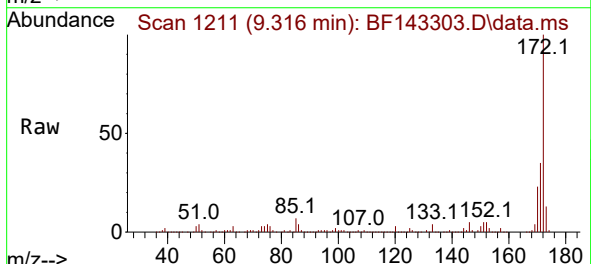
Tgt Ion: 330 Resp: 9380
Ion Ratio Lower Upper
330 100
332 96.5 76.7 115.1
141 32.0 23.3 34.9

Manual Integrations
APPROVED

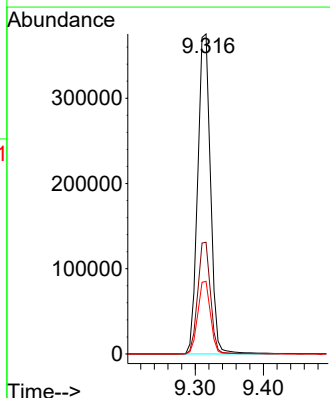
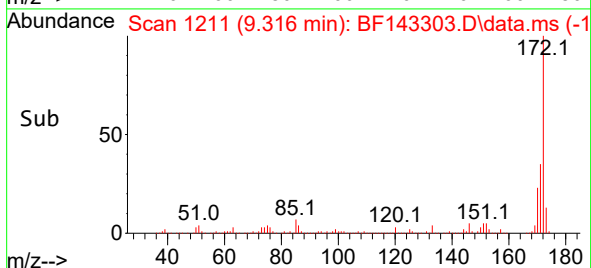
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

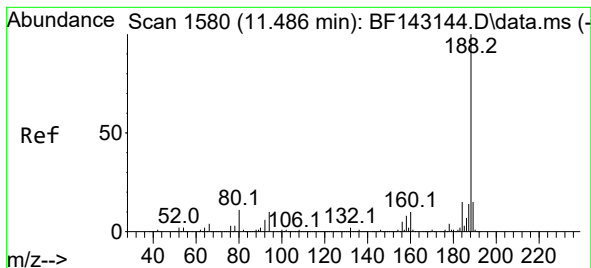


#45
2-Fluorobiphenyl
Concen: 40.512 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32



Tgt Ion: 172 Resp: 489217
Ion Ratio Lower Upper
172 100
171 34.9 28.6 42.8
170 22.7 18.8 28.2





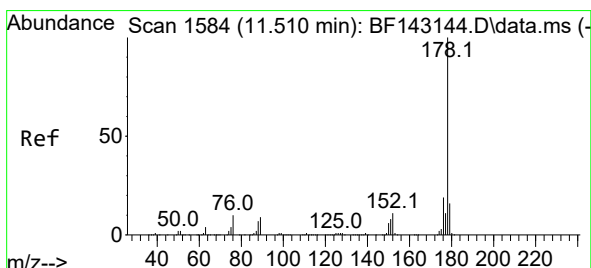
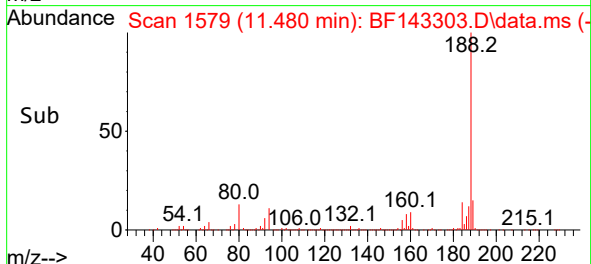
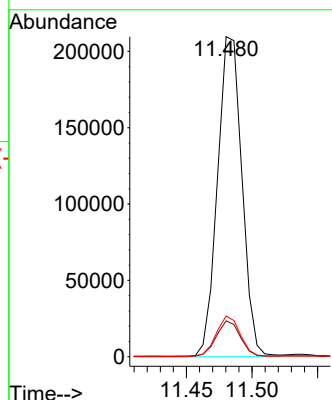
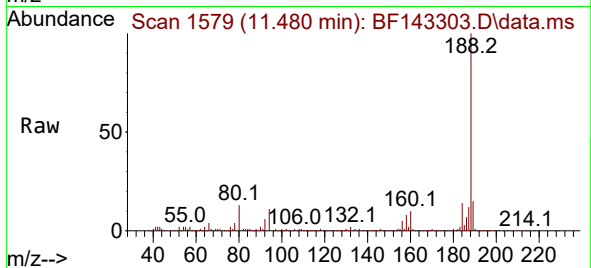
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.480 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32

Instrument :
BNA_F
ClientSampleId :
VNJ-253

Tgt Ion:188 Resp: 27214
Ion Ratio Lower Upper
188 100
94 11.2 8.3 12.5
80 12.7 9.0 13.6

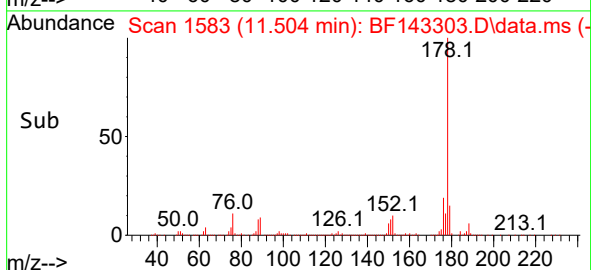
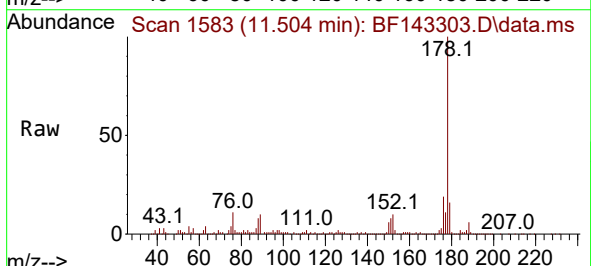
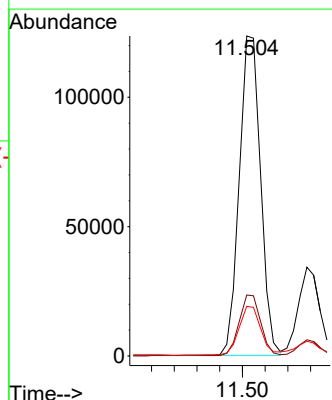
Manual Integrations
APPROVED

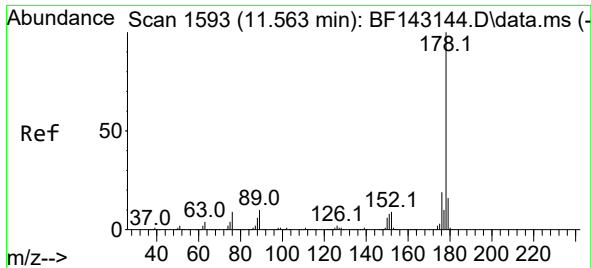
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025



#71
Phenanthrene
Concen: 11.119 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32

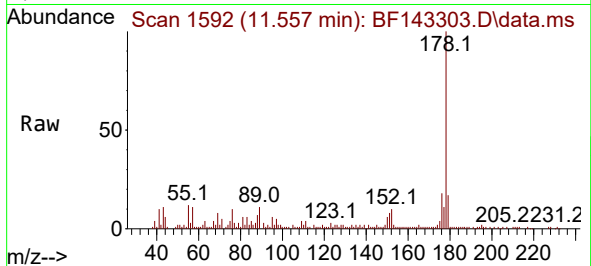
Tgt Ion:178 Resp: 160669
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.5 12.5 18.7





#72
 Anthracene
 Concen: 3.015 ng
 RT: 11.557 min Scan# 1593
 Delta R.T. -0.006 min
 Lab File: BF143303.D
 Acq: 04 Aug 2025 18:32

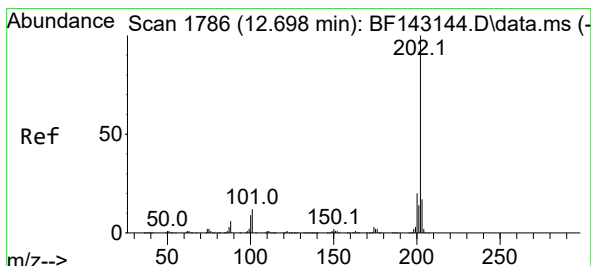
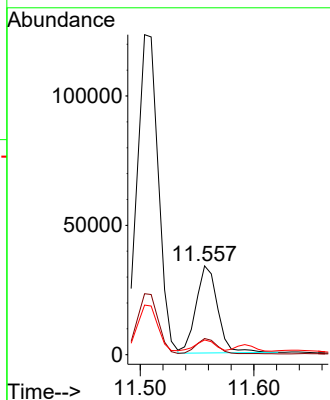
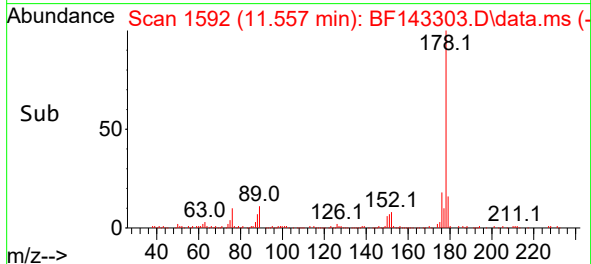
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-253



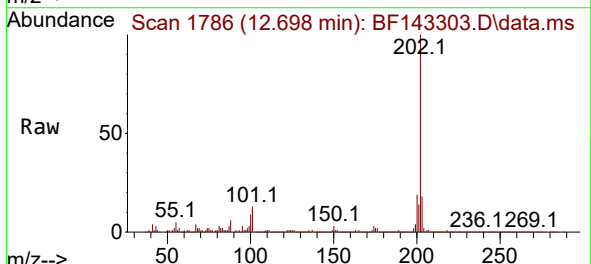
Tgt Ion:178 Resp: 44438
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.0 22.4
 179 16.6 12.5 18.7

Manual Integrations
 APPROVED

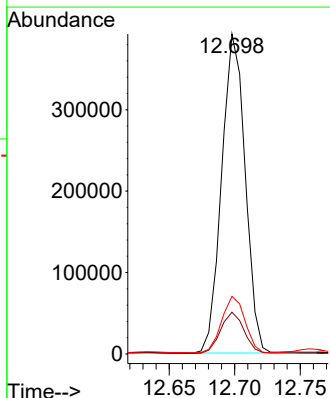
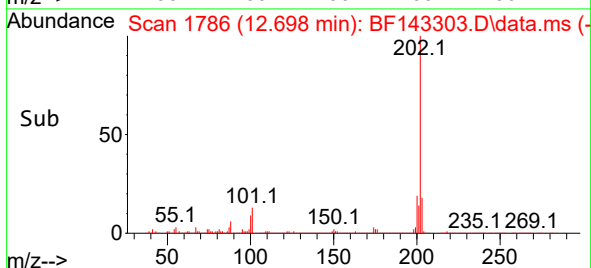
Reviewed By :Rahul Chavli 08/05/2025
 Supervised By :Jagrut Upadhyay 08/05/2025

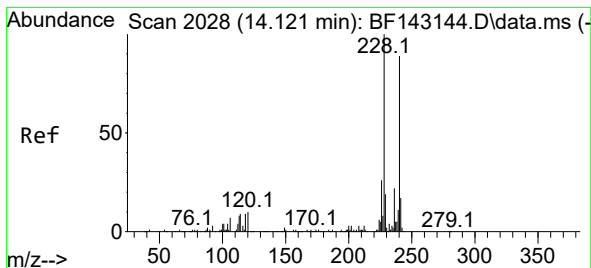


#75
 Fluoranthene
 Concen: 36.879 ng
 RT: 12.698 min Scan# 1786
 Delta R.T. -0.000 min
 Lab File: BF143303.D
 Acq: 04 Aug 2025 18:32



Tgt Ion:202 Resp: 489144
 Ion Ratio Lower Upper
 202 100
 101 13.1 0.0 31.7
 203 18.0 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.127 min Scan# 2028

Delta R.T. 0.006 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Instrument :

BNA_F

ClientSampleId :

VNJ-253

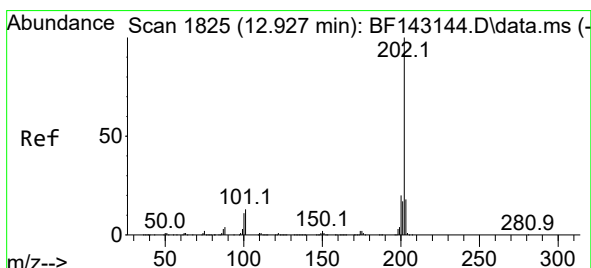
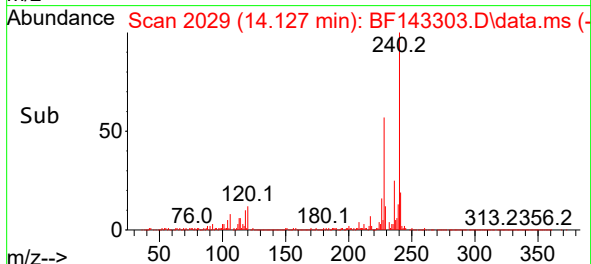
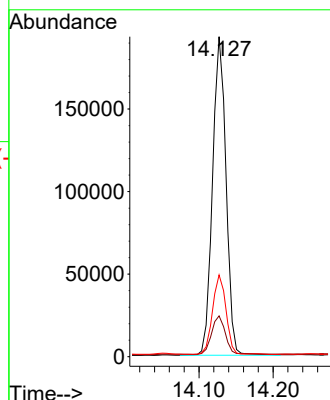
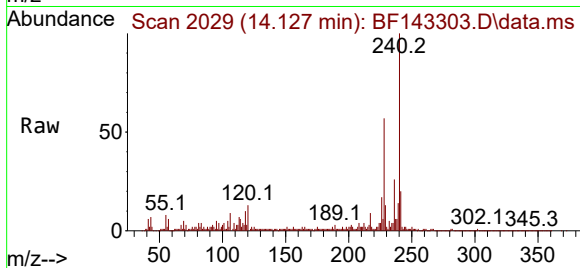
Tgt Ion:240 Resp: 243744
 Ion Ratio Lower Upper
 240 100
 120 12.8 9.4 14.2
 236 25.5 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#78

Pyrene

Concen: 23.350 ng

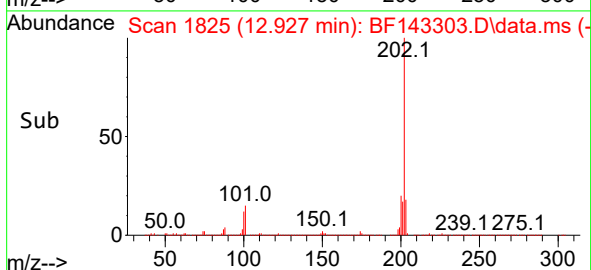
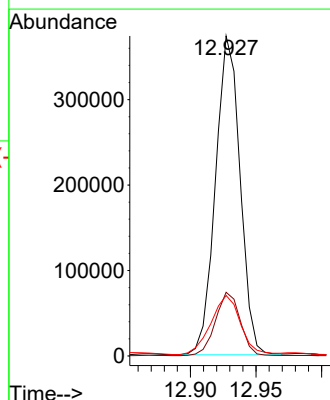
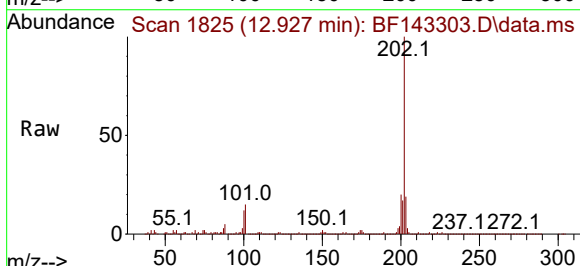
RT: 12.927 min Scan# 1825

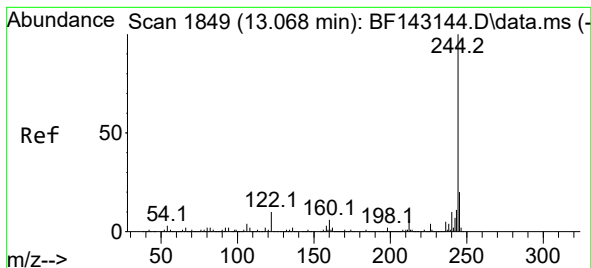
Delta R.T. -0.000 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Tgt Ion:202 Resp: 485741
 Ion Ratio Lower Upper
 202 100
 200 19.9 15.7 23.5
 203 18.9 14.2 21.2





#79

Terphenyl-d14

Concen: 30.080 ng

RT: 13.068 min Scan# 1849

Delta R.T. -0.000 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Instrument :

BNA_F

ClientSampleId :

VNJ-253

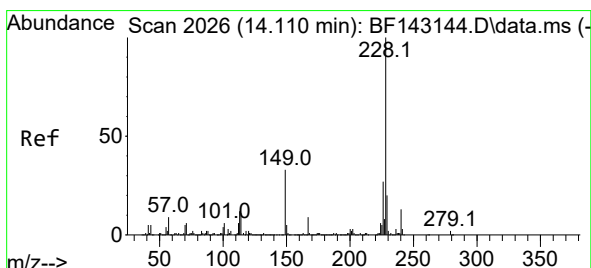
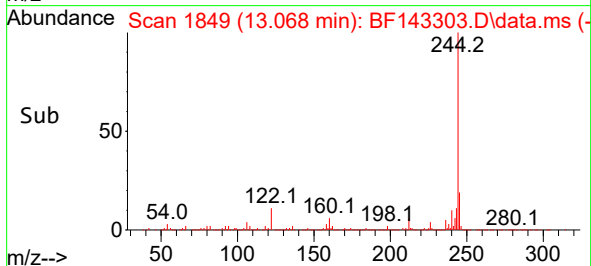
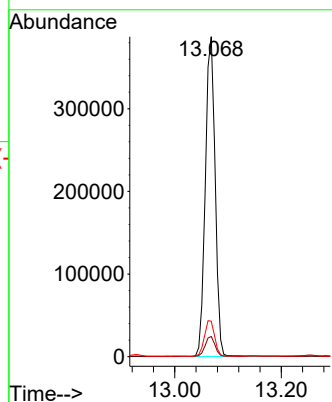
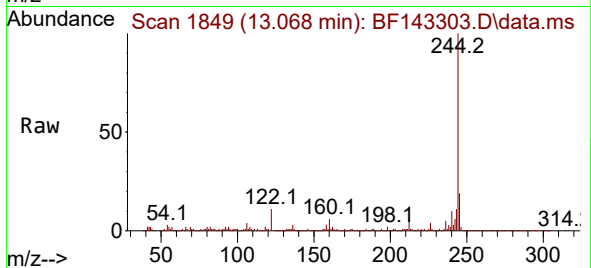
Tgt Ion:244 Resp: 492692
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.2 7.8
 122 11.1 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#81

Benzo(a)anthracene

Concen: 16.551 ng

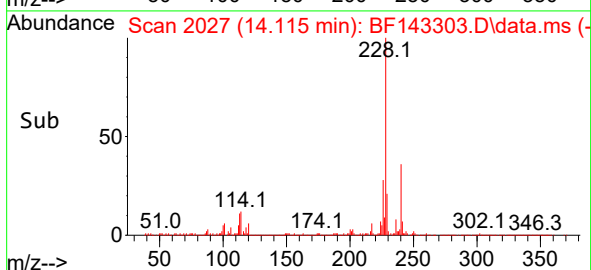
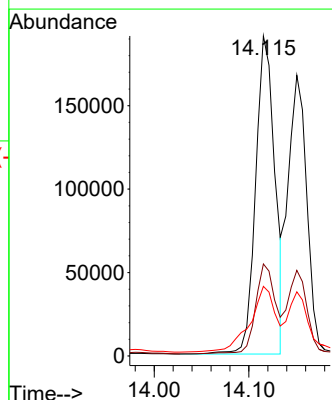
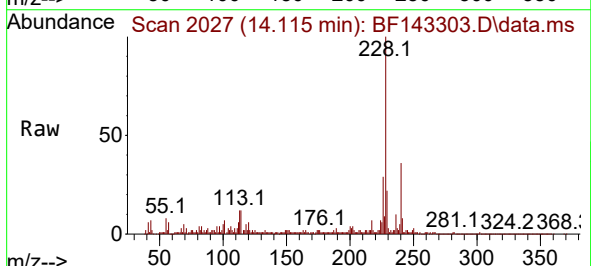
RT: 14.115 min Scan# 2027

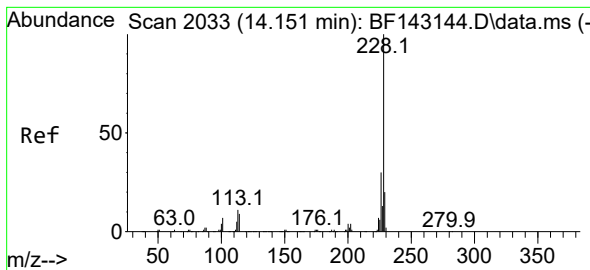
Delta R.T. 0.006 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Tgt Ion:228 Resp: 270090
 Ion Ratio Lower Upper
 228 100
 226 28.8 21.7 32.5
 229 21.8 15.8 23.6





#83

Chrysene

Concen: 15.480 ng

RT: 14.151 min Scan# 2033

Delta R.T. -0.000 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Instrument :

BNA_F

ClientSampleId :

VNJ-253

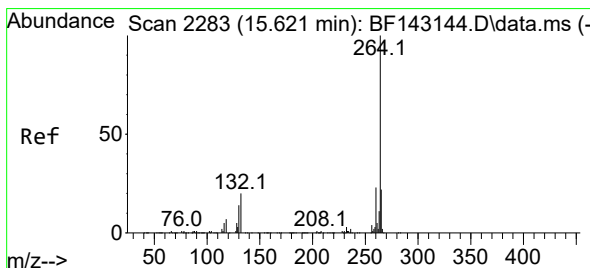
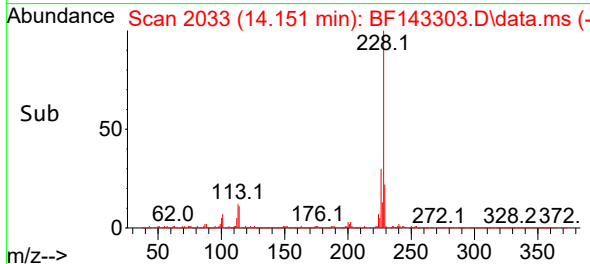
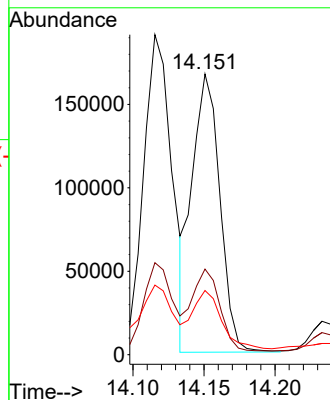
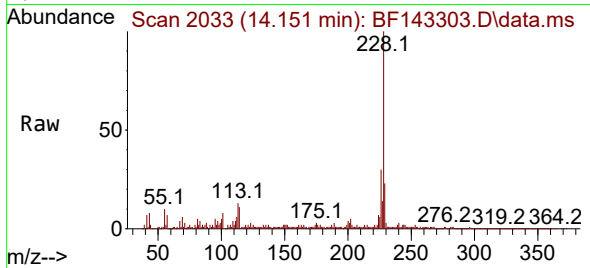
Tgt Ion:228	Resp: 227128
Ion Ratio	Lower Upper
228 100	
226 30.5	23.8 35.8
229 22.8	15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#86

Perylene-d12

Concen: 20.000 ng

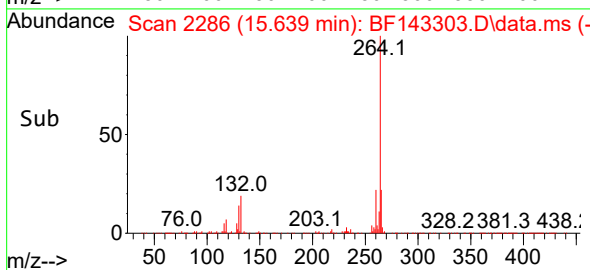
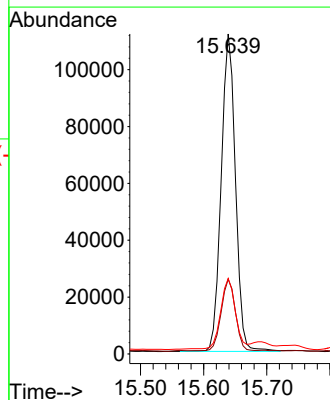
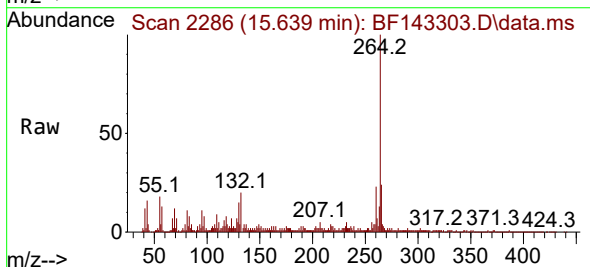
RT: 15.639 min Scan# 2286

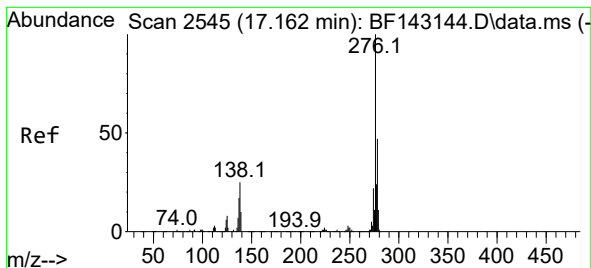
Delta R.T. 0.018 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Tgt Ion:264	Resp: 174997
Ion Ratio	Lower Upper
264 100	
260 23.4	18.5 27.7
265 23.6	17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.887 ng

RT: 17.180 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Instrument :

BNA_F

ClientSampleId :

VNJ-253

Tgt Ion: 276 Resp: 7264

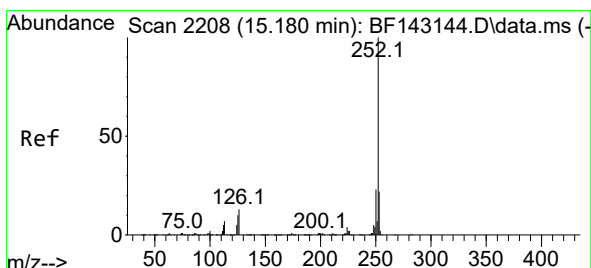
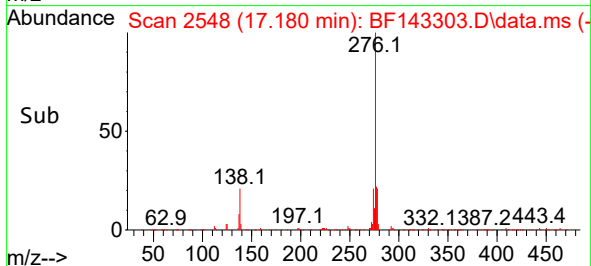
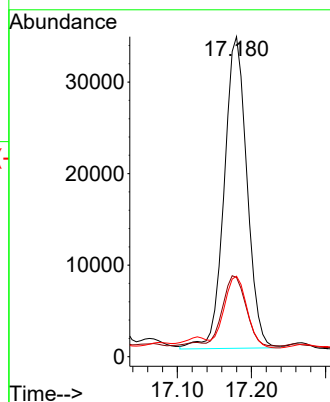
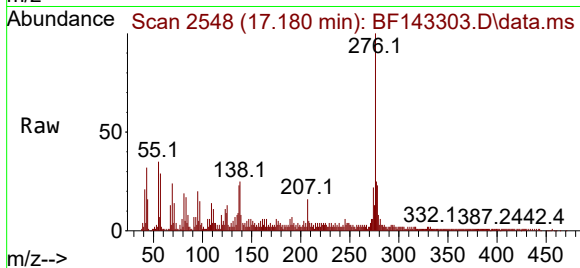
Ion	Ratio	Lower	Upper
276	100		
138	23.0	21.8	32.6
277	23.0	20.0	30.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#88

Benzo(b)fluoranthene

Concen: 20.557 ng m

RT: 15.192 min Scan# 2210

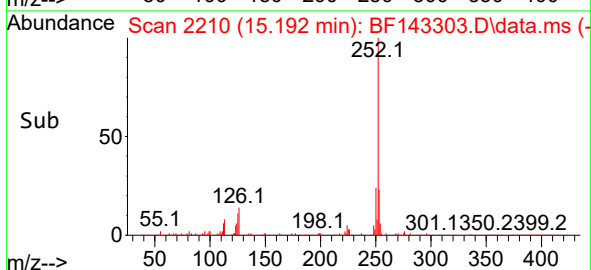
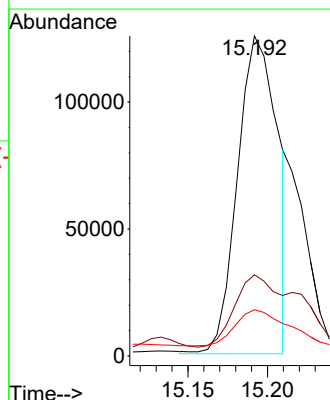
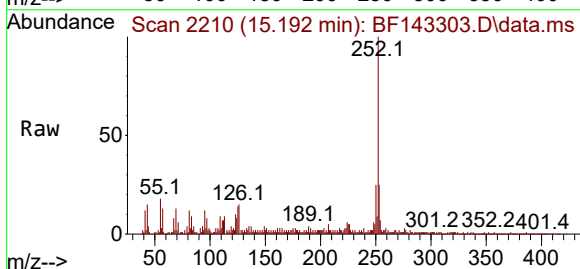
Delta R.T. 0.012 min

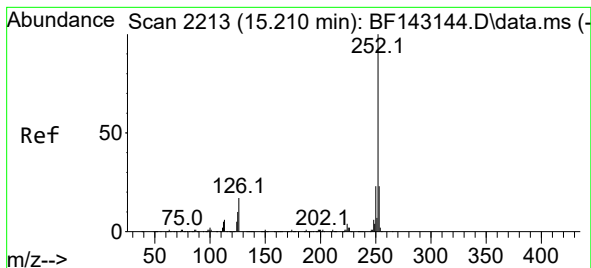
Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Tgt Ion: 252 Resp: 219769

Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.5	26.3
125	14.4	8.0	12.0





#89

Benzo(k)fluoranthene

Concen: 7.205 ng m

RT: 15.209 min Scan# 2213

Delta R.T. -0.000 min

Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Instrument :

BNA_F

ClientSampleId :

VNJ-253

Tgt Ion:252 Resp: 68738

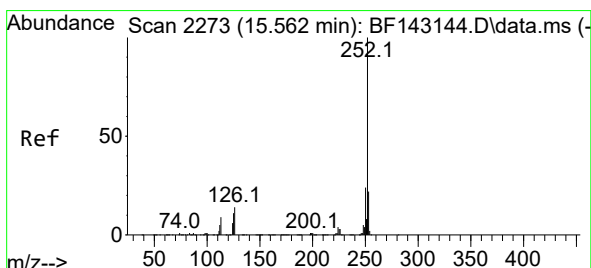
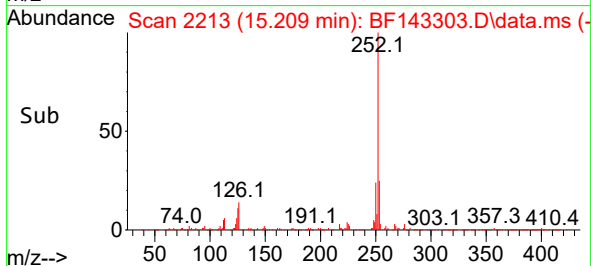
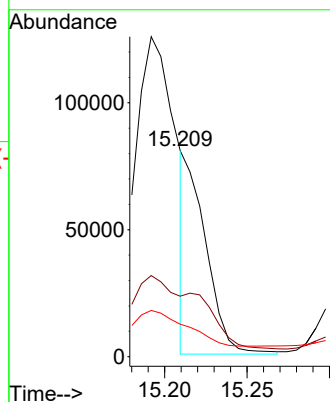
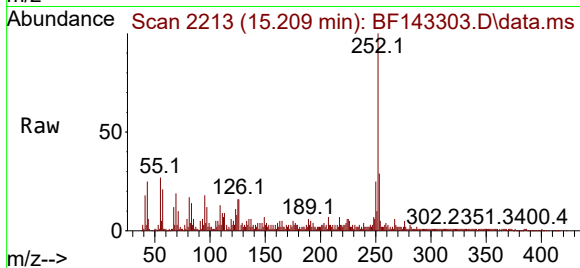
Ion	Ratio	Lower	Upper
252	100		
253	29.4	17.8	26.6
125	15.7	8.1	12.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#90

Benzo(a)pyrene

Concen: 14.249 ng

RT: 15.574 min Scan# 2275

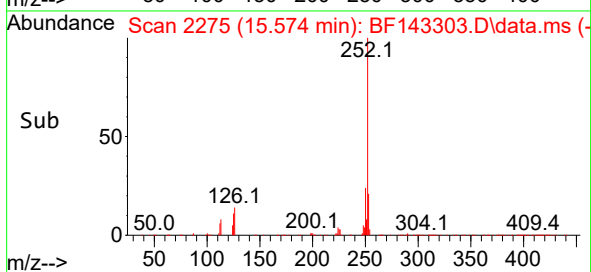
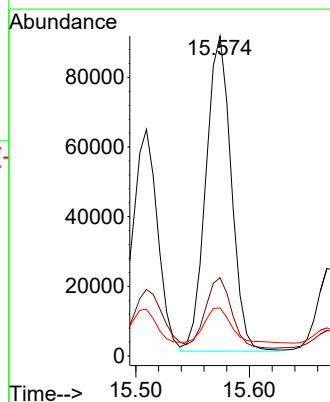
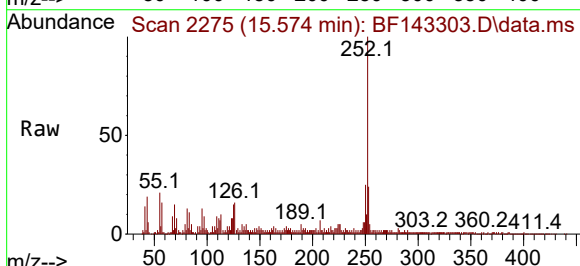
Delta R.T. 0.012 min

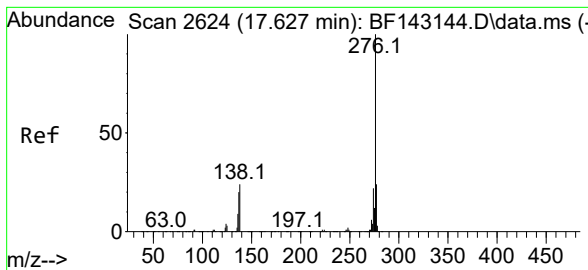
Lab File: BF143303.D

Acq: 04 Aug 2025 18:32

Tgt Ion:252 Resp: 140350

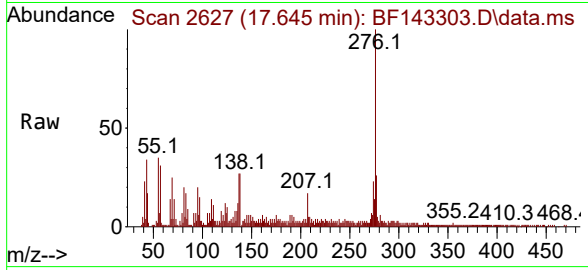
Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.3	25.9
125	15.0	8.6	13.0





#92
Benzo(g,h,i)perylene
Concen: 7.271 ng
RT: 17.645 min Scan# 20
Delta R.T. 0.018 min
Lab File: BF143303.D
Acq: 04 Aug 2025 18:32

Instrument :
BNA_F
ClientSampleId :
VNJ-253



Tgt Ion:276 Resp: 70644
Ion Ratio Lower Upper
276 100
277 26.2 19.1 28.7
138 27.2 18.9 28.3

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

