

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
 Data File : BF144417.D
 Acq On : 03 Dec 2025 14:08
 Operator : RC/JU
 Sample : Q3741-03
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B50-SP14-112025

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 03 14:29:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	52469	20.000	ng	-0.01
21) Naphthalene-d8	8.140	136	193698	20.000	ng	-0.02
39) Acenaphthene-d10	9.898	164	103555	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	160944	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	122787	20.000	ng	0.00
86) Perylene-d12	15.533	264	158132	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	175856	52.449	ng	0.00
7) Phenol-d6	6.498	99	268572	70.693	ng	0.00
23) Nitrobenzene-d5	7.422	82	163415	48.726	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	41445	31.893	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	360512	51.417	ng	-0.01
79) Terphenyl-d14	12.980	244	342879	44.356	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.163	128	35972	3.904	ng	100
37) 2-Methylnaphthalene	8.857	142	15494	2.515	ng	100
49) Acenaphthylene	9.763	152	22786	2.712	ng	96
52) Acenaphthene	9.934	154	17820	3.171	ng	92
55) Dibenzofuran	10.104	168	24558	3.121	ng	# 96
58) Fluorene	10.451	166	18079	3.022	ng	# 96
71) Phenanthrene	11.416	178	271887	33.930	ng	99
72) Anthracene	11.469	178	78986	9.694	ng	99
73) Carbazole	11.628	167	30373	4.384	ng	99
75) Fluoranthene	12.610	202	348383	42.087	ng	99
78) Pyrene	12.845	202	365877	36.957	ng	98
81) Benzo(a)anthracene	14.033	228	292970	34.426	ng	94
83) Chrysene	14.074	228	269665	34.326	ng	95
84) Bis(2-ethylhexyl)phtha...	14.010	149	13762	2.930	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.033	276	199577	17.582	ng	100
88) Benzo(b)fluoranthene	15.104	252	407914m	45.374	ng	
89) Benzo(k)fluoranthene	15.116	252	137441m	16.333	ng	
90) Benzo(a)pyrene	15.474	252	342940	41.349	ng	95
91) Dibenzo(a,h)anthracene	17.039	278	58121	6.375	ng	# 85
92) Benzo(g,h,i)perylene	17.492	276	186335	20.698	ng	100

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

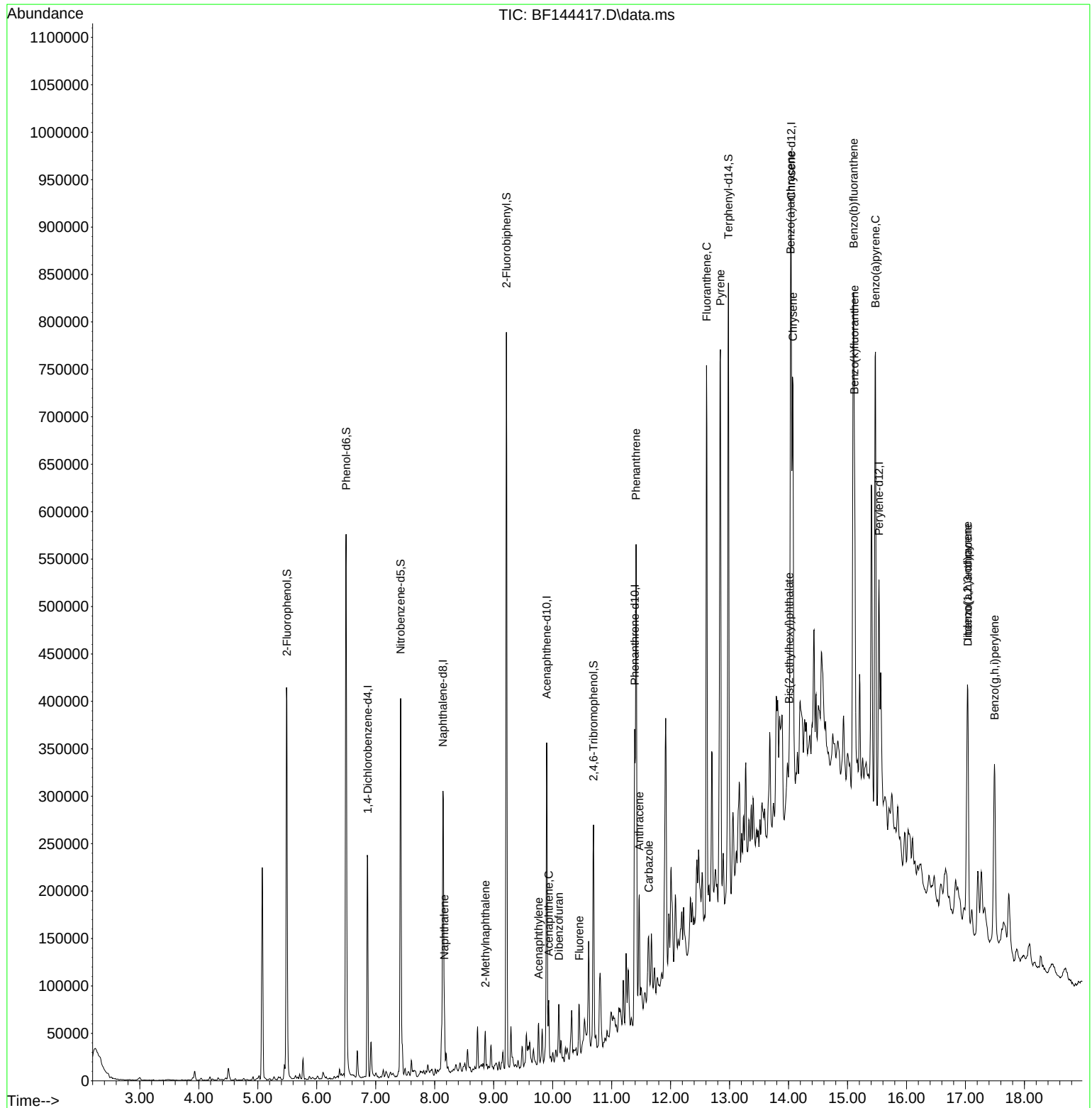
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
Data File : BF144417.D
Acq On : 03 Dec 2025 14:08
Operator : RC/JU
Sample : Q3741-03
Misc :
ALS Vial : 4 Sample Multiplier: 1

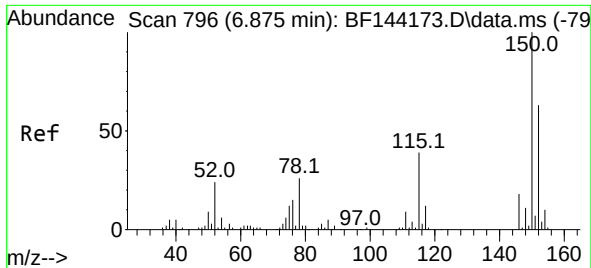
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

Quant Time: Dec 03 14:29:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

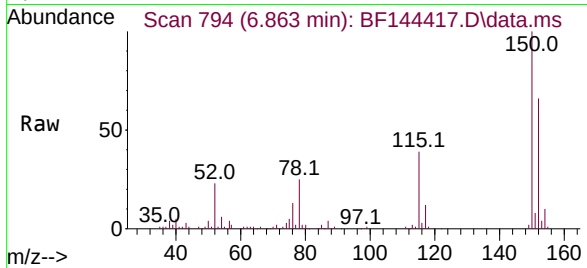
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

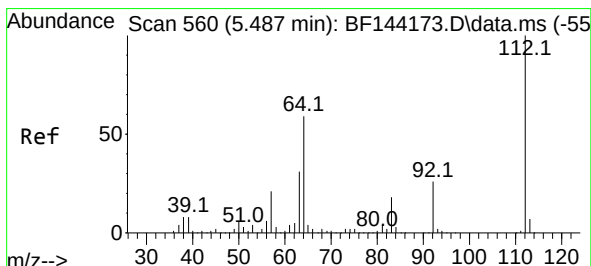
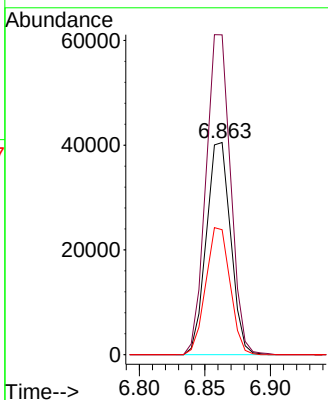
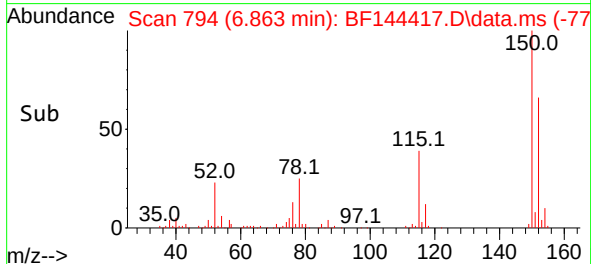
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



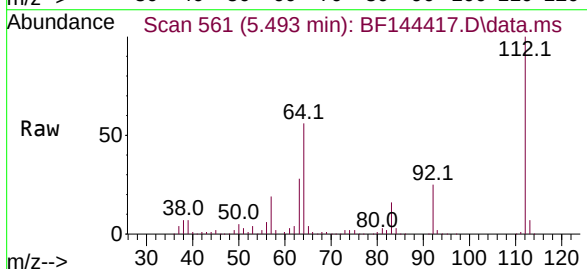
Tgt Ion:152 Resp: 52469
Ion Ratio Lower Upper
152 100
150 150.8 127.4 191.0
115 58.9 49.5 74.3

Manual Integrations
APPROVED

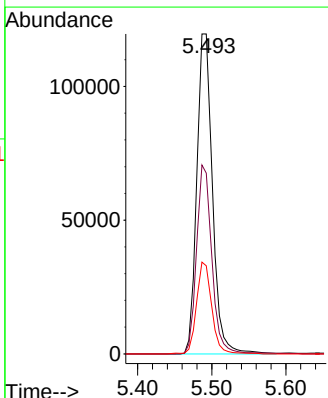
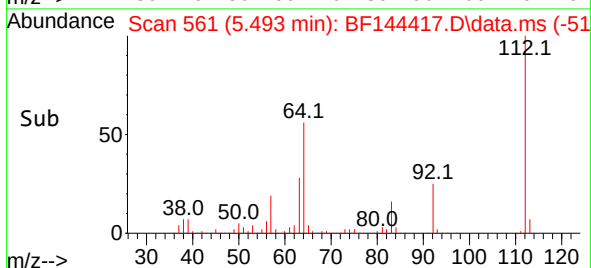
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#5
2-Fluorophenol
Concen: 52.449 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08



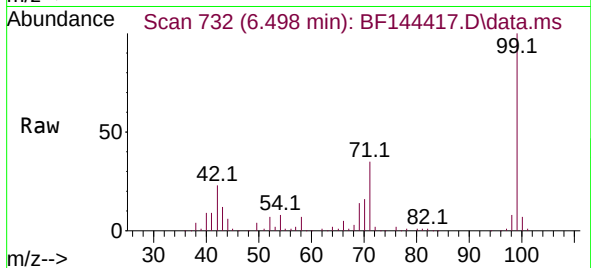
Tgt Ion:112 Resp: 175856
Ion Ratio Lower Upper
112 100
64 56.5 47.2 70.8
63 27.5 24.4 36.6





#7
Phenol-d6
Concen: 70.693 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

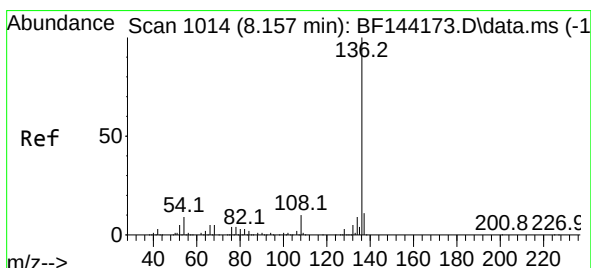
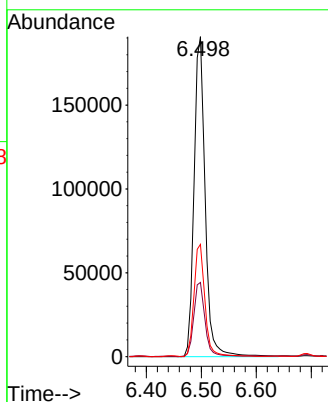
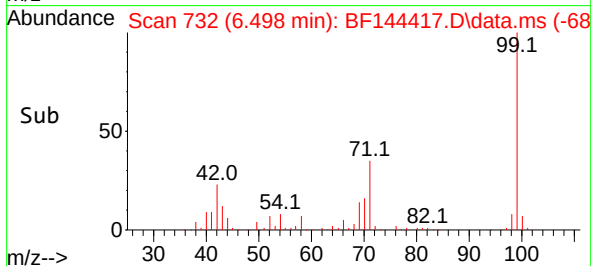
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



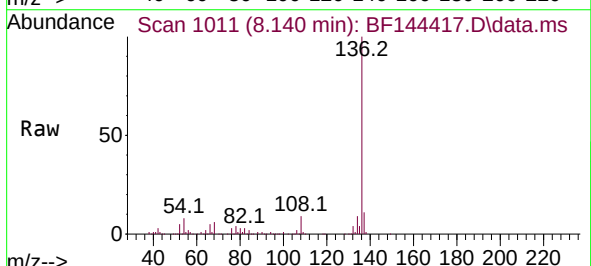
Tgt Ion: 99 Resp: 268572
Ion Ratio Lower Upper
99 100
42 23.2 20.9 31.3
71 35.1 31.4 47.2

Manual Integrations
APPROVED

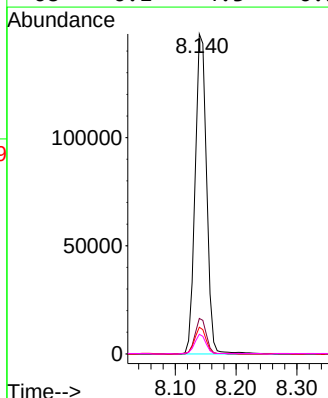
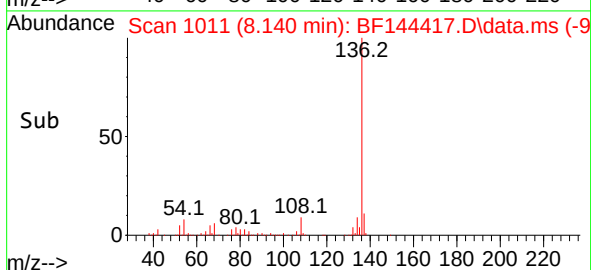
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

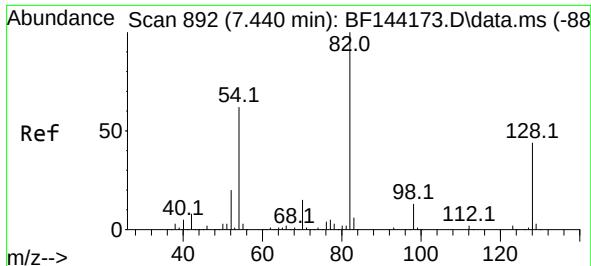


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.140 min Scan# 1011
Delta R.T. -0.018 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08



Tgt Ion:136 Resp: 193698
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.3 7.0 10.6
68 6.1 4.3 6.5





#23

Nitrobenzene-d5

Concen: 48.726 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144417.D

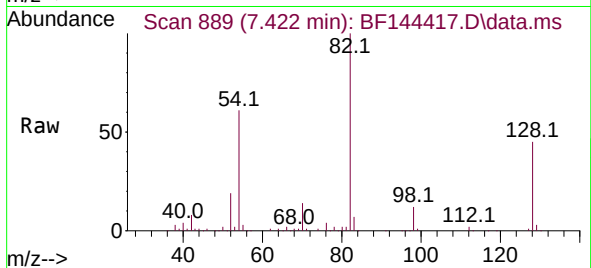
Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025



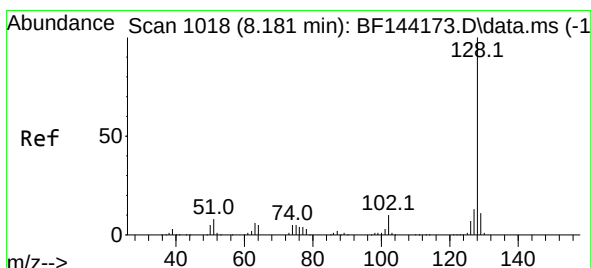
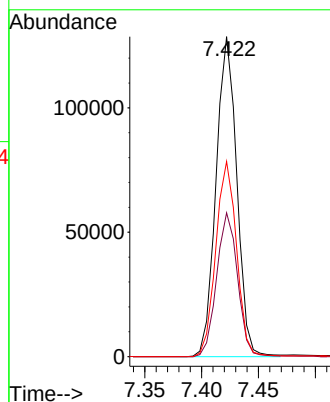
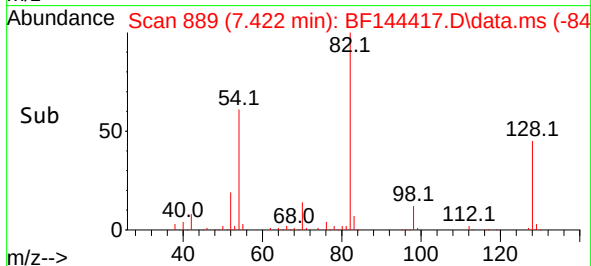
Tgt Ion: 82 Resp: 163415

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.7	52.1
54	61.0	49.5	74.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#31

Naphthalene

Concen: 3.904 ng

RT: 8.163 min Scan# 1015

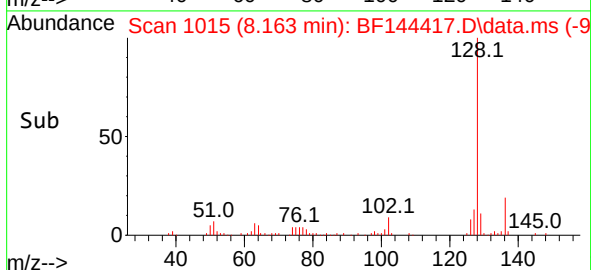
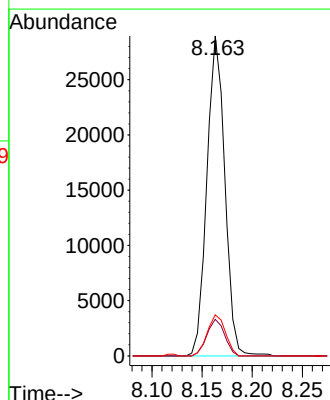
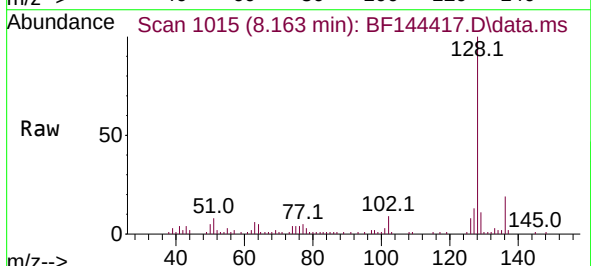
Delta R.T. -0.012 min

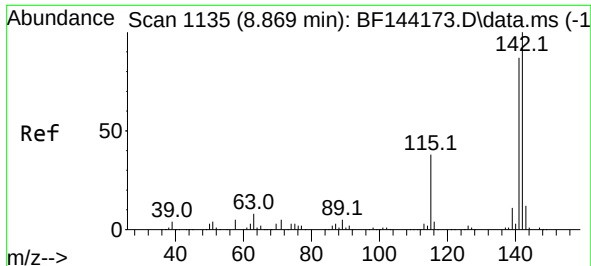
Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Tgt Ion:128 Resp: 35972

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.9	13.3
127	12.8	10.3	15.5





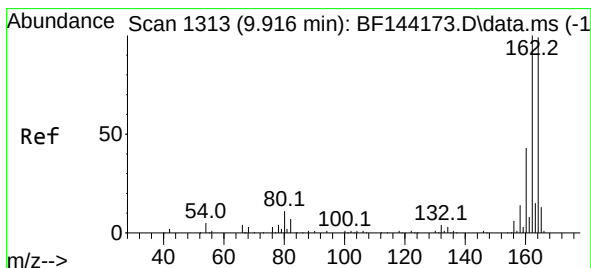
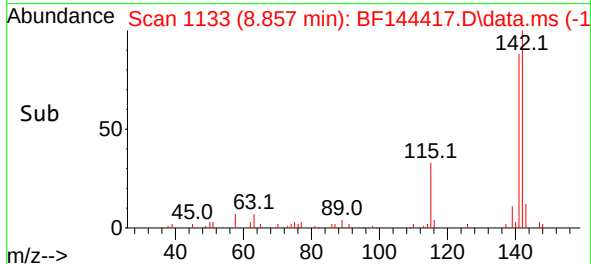
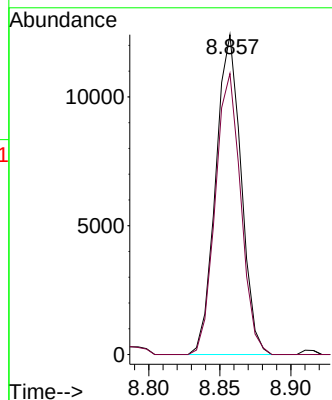
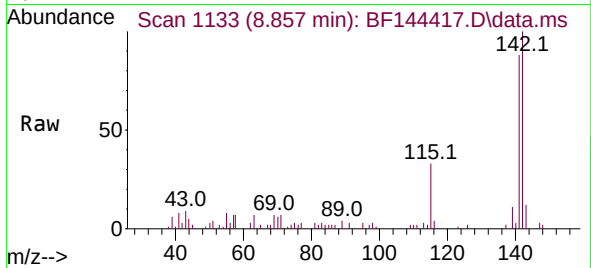
#37
2-Methylnaphthalene
Concen: 2.515 ng
RT: 8.857 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

Tgt Ion:142 Resp: 15494
Ion Ratio Lower Upper
142 100
141 87.8 69.9 104.9

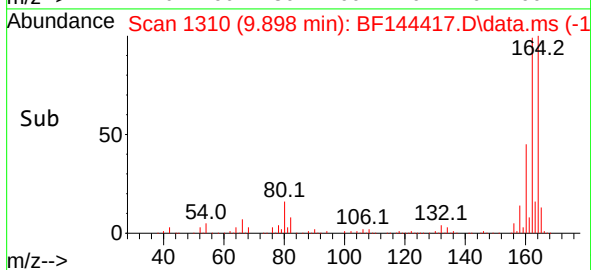
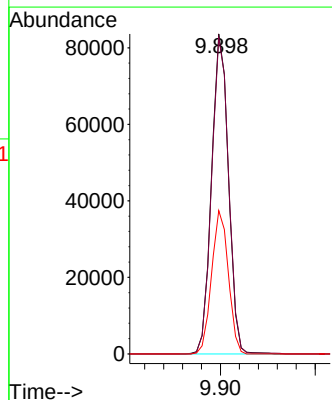
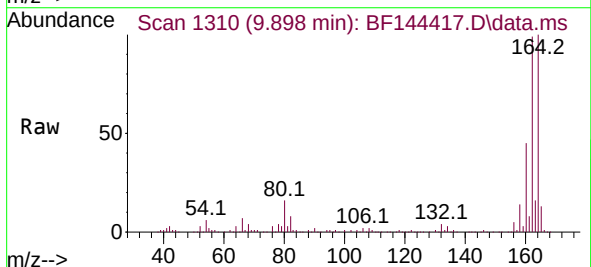
Manual Integrations
APPROVED

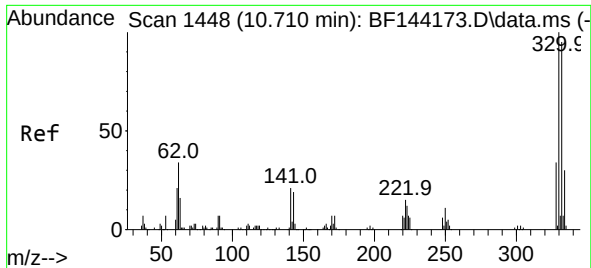
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

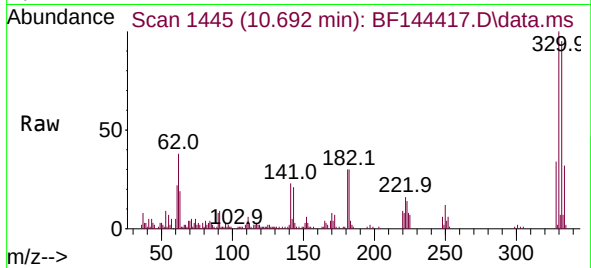
Tgt Ion:164 Resp: 103555
Ion Ratio Lower Upper
164 100
162 98.9 81.1 121.7
160 44.8 34.5 51.7





#42
2,4,6-Tribromophenol
Concen: 31.893 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

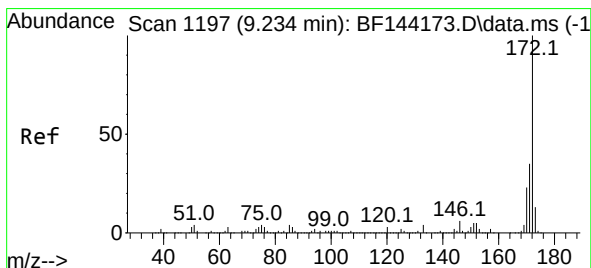
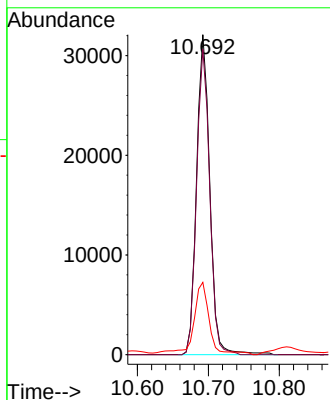
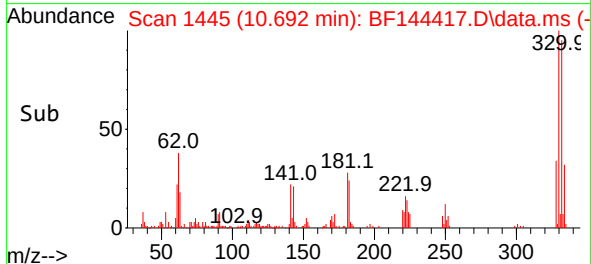
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



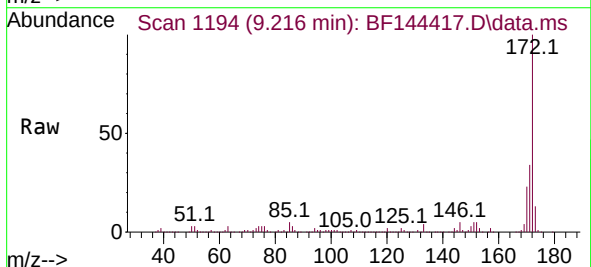
Tgt Ion: 330 Resp: 41445
Ion Ratio Lower Upper
330 100
332 94.2 76.7 115.1
141 27.0 17.8 26.8

Manual Integrations
APPROVED

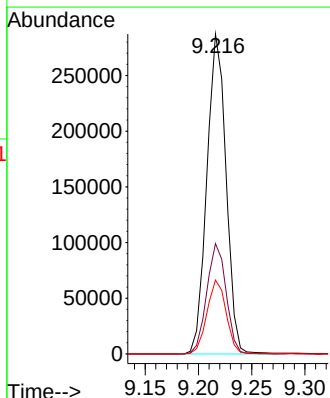
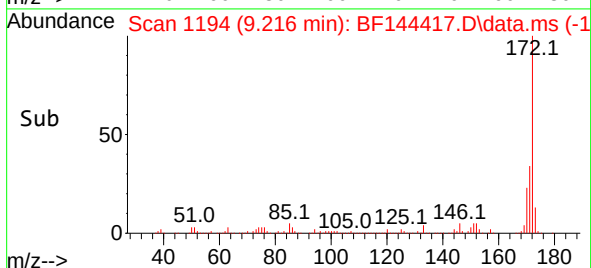
Reviewed By : Jagrut Upadhyay 12/04/2025
Supervised By : mohammad ahmed 12/09/2025

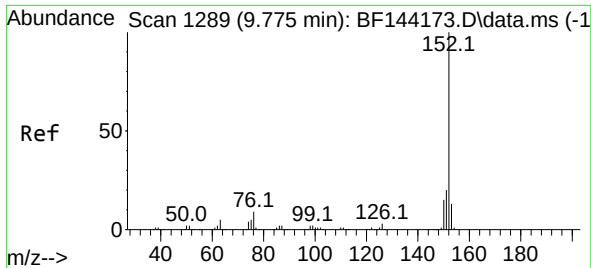


#45
2-Fluorobiphenyl
Concen: 51.417 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08



Tgt Ion: 172 Resp: 360512
Ion Ratio Lower Upper
172 100
171 34.5 28.1 42.1
170 23.1 18.6 28.0





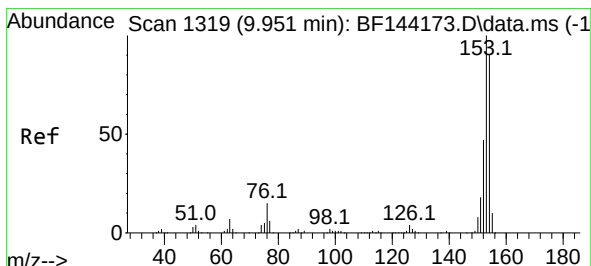
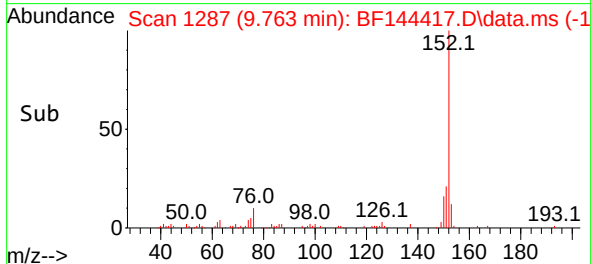
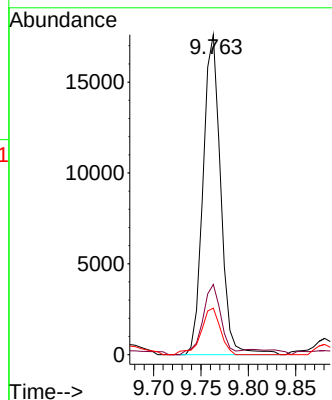
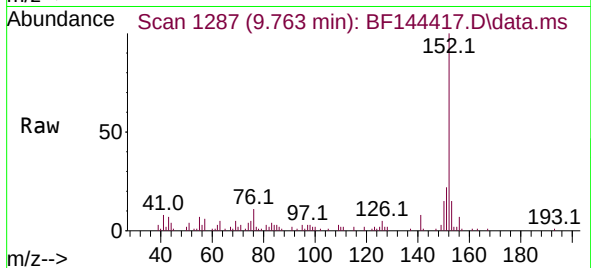
#49
Acenaphthylene
Concen: 2.712 ng
RT: 9.763 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Instrument : BNA_F
ClientSampleId : B50-SP14-112025

Tgt Ion:152 Resp: 22786
Ion Ratio Lower Upper
152 100
151 21.9 15.9 23.9
153 14.5 10.5 15.7

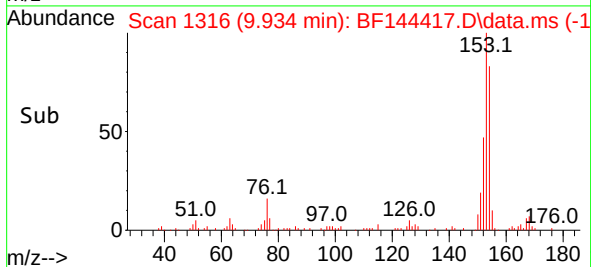
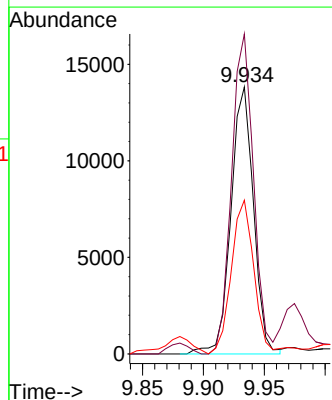
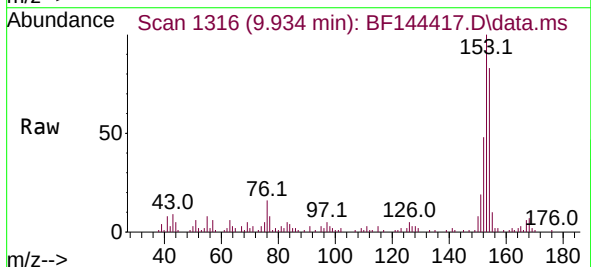
Manual Integrations
APPROVED

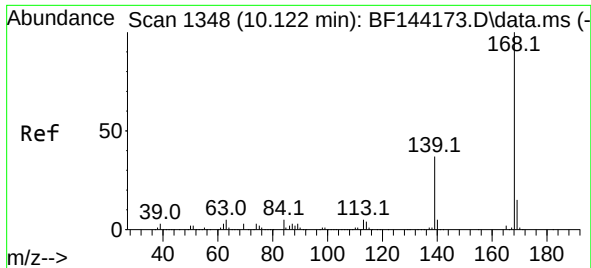
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#52
Acenaphthene
Concen: 3.171 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

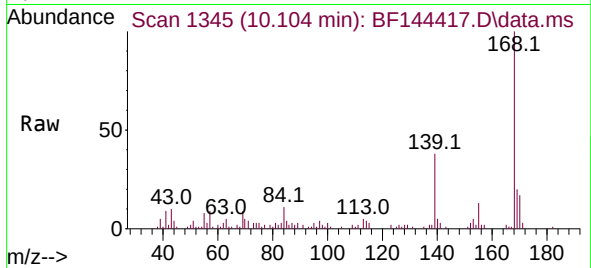
Tgt Ion:154 Resp: 17820
Ion Ratio Lower Upper
154 100
153 119.9 89.0 133.4
152 57.5 42.2 63.4





#55
Dibenzenofuran
Concen: 3.121 ng
RT: 10.104 min Scan# 1348
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

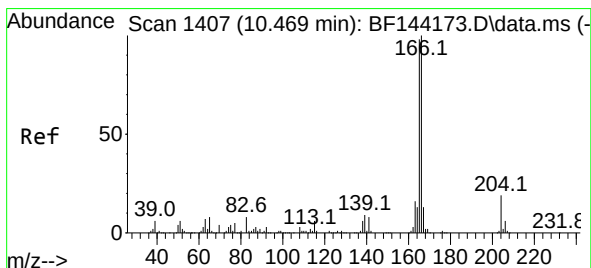
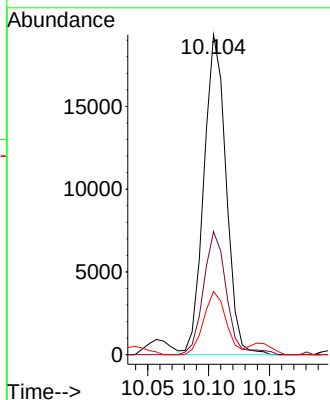
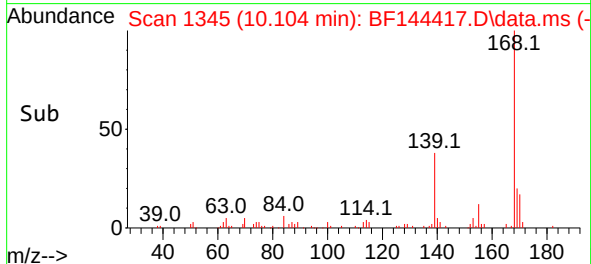
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



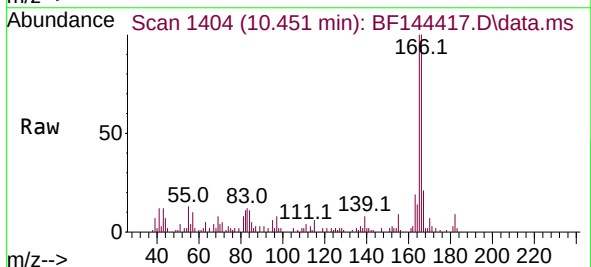
Tgt Ion:168 Resp: 24558
Ion Ratio Lower Upper
168 100
139 38.4 30.2 45.2
169 19.7 12.2 18.4

Manual Integrations
APPROVED

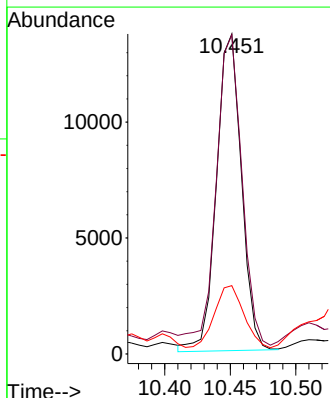
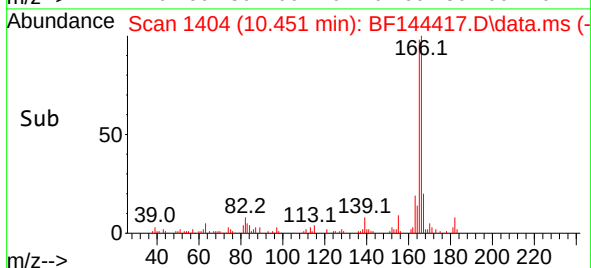
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

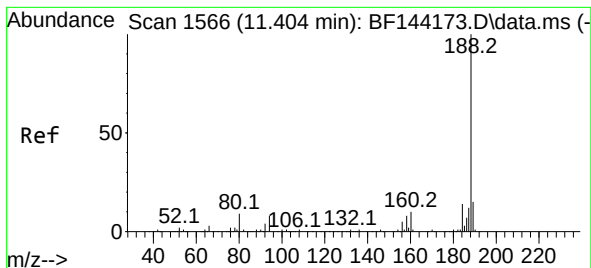


#58
Fluorene
Concen: 3.022 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08



Tgt Ion:166 Resp: 18079
Ion Ratio Lower Upper
166 100
165 99.7 78.6 118.0
167 21.3 10.4 15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

B50-SP14-112025

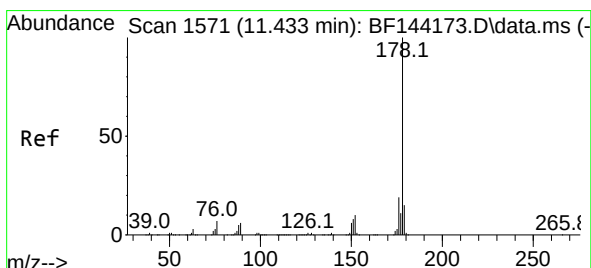
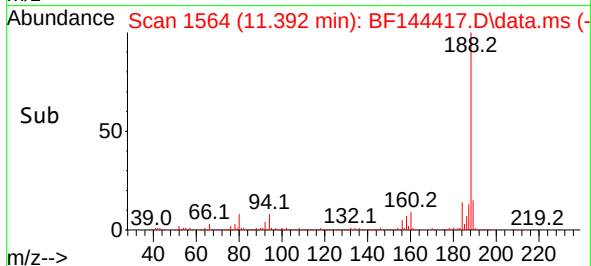
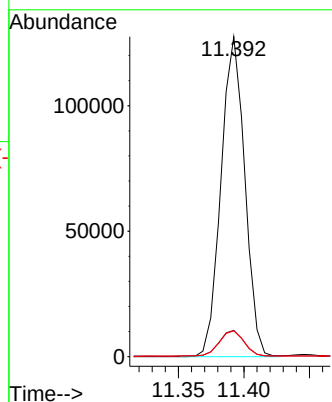
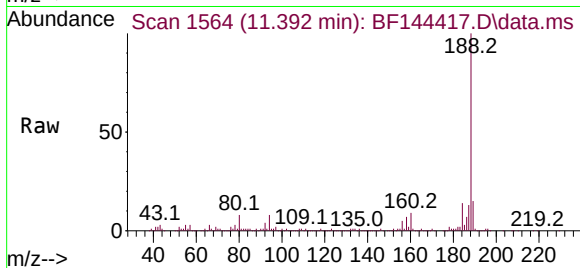
Tgt Ion:188 Resp: 160944

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.2	9.2
80	8.0	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#71

Phenanthrene

Concen: 33.930 ng

RT: 11.416 min Scan# 1568

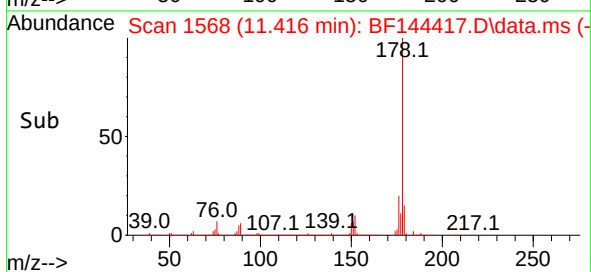
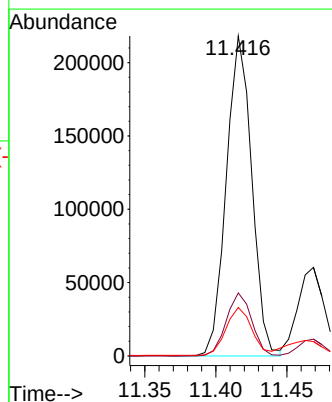
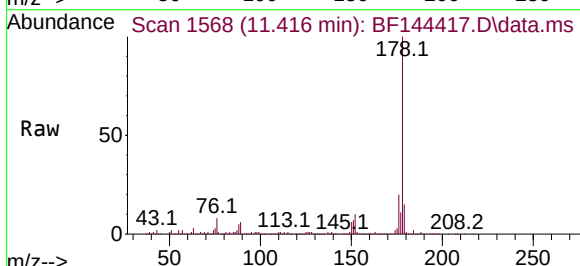
Delta R.T. -0.012 min

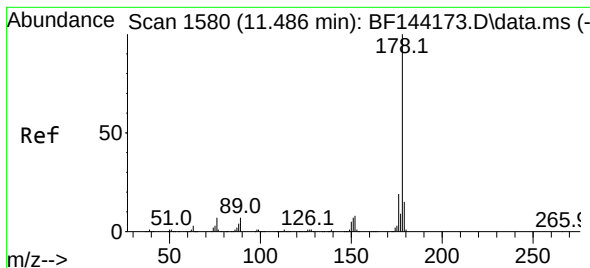
Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Tgt Ion:178 Resp: 271887

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.1	12.2	18.4





#72

Anthracene

Concen: 9.694 ng

RT: 11.469 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

Instrument :

BNA_F

ClientSampleId :

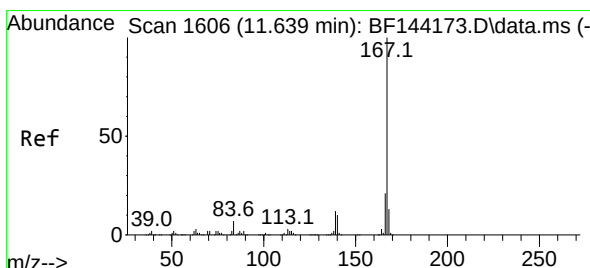
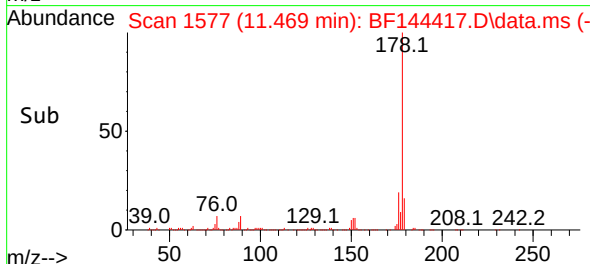
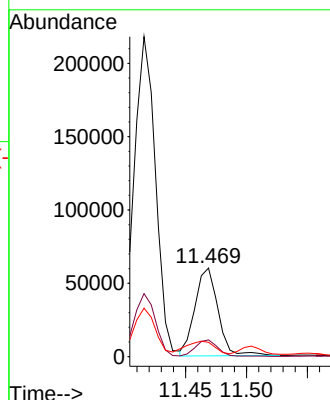
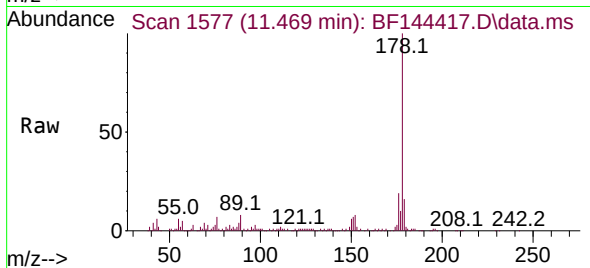
B50-SP14-112025

Tgt Ion:178 Resp: 78986
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.3 22.9
 179 16.1 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025



#73

Carbazole

Concen: 4.384 ng

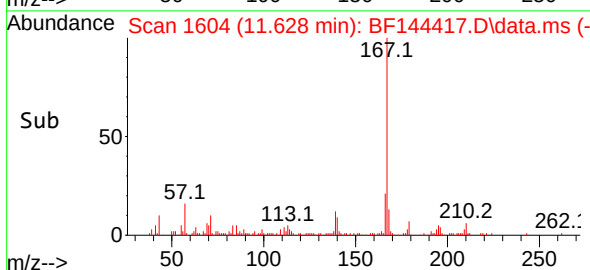
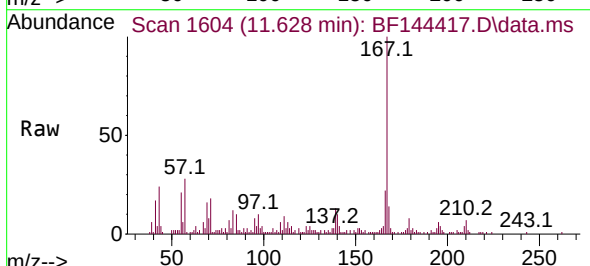
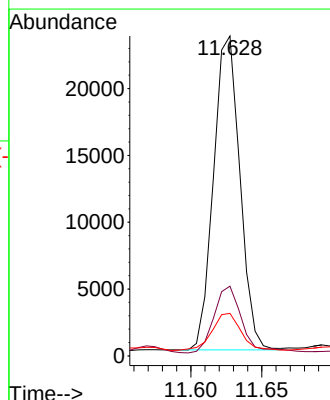
RT: 11.628 min Scan# 1604

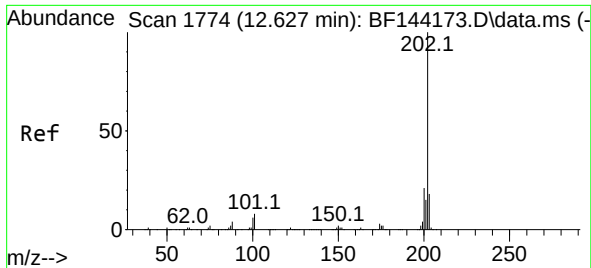
Delta R.T. -0.012 min

Lab File: BF144417.D

Acq: 03 Dec 2025 14:08

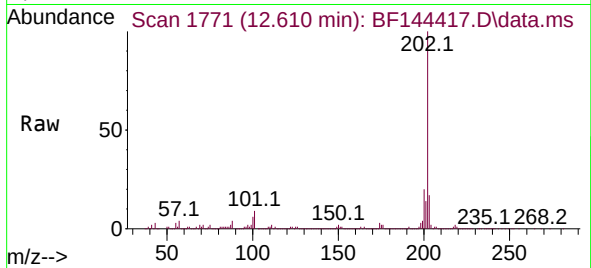
Tgt Ion:167 Resp: 30373
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.2 25.8
 139 13.3 9.9 14.9





#75
Fluoranthene
Concen: 42.087 ng
RT: 12.610 min Scan# 1771
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

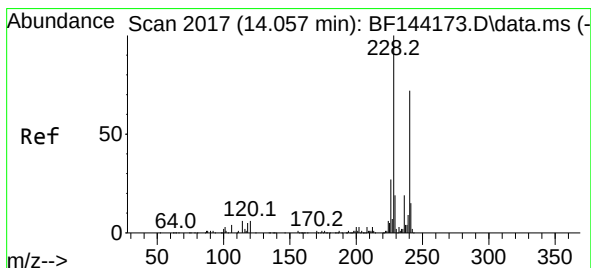
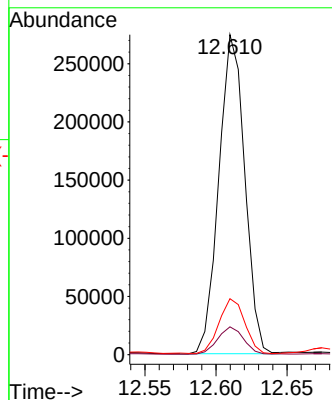
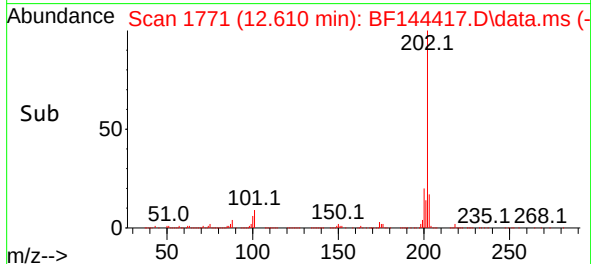
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



Tgt Ion:202 Resp: 34838
Ion Ratio Lower Upper
202 100
101 8.7 0.0 27.9
203 17.5 0.0 37.5

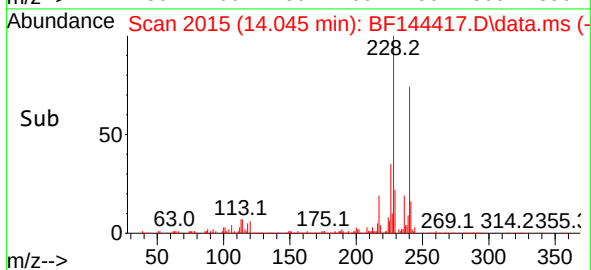
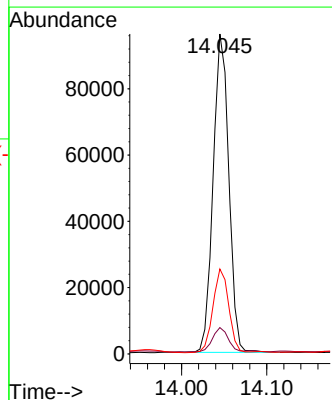
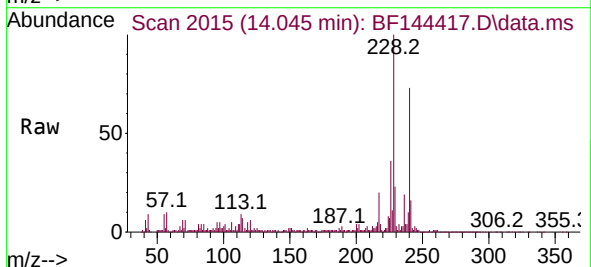
Manual Integrations
APPROVED

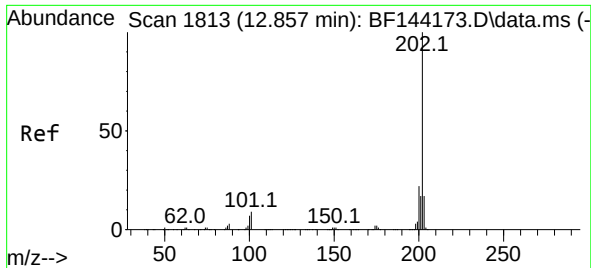
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

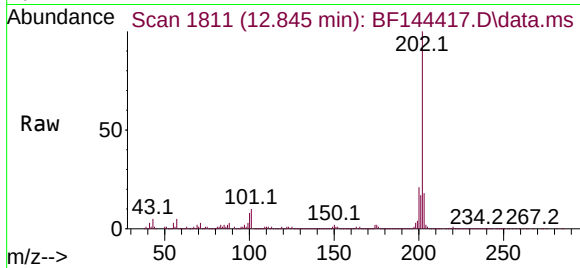
Tgt Ion:240 Resp: 122787
Ion Ratio Lower Upper
240 100
120 8.2 6.6 10.0
236 26.5 21.4 32.2





#78
Pyrene
Concen: 36.957 ng
RT: 12.845 min Scan# 1811
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

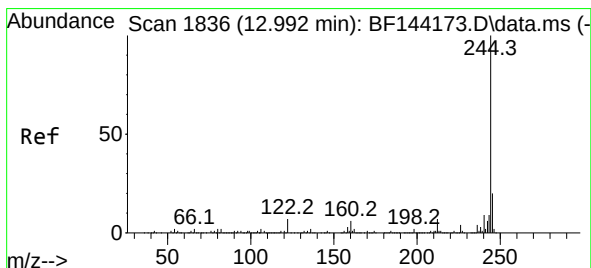
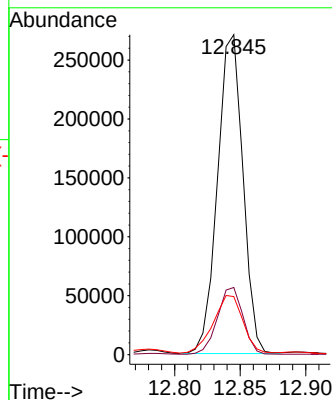
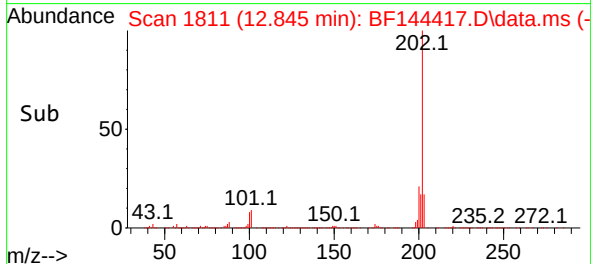
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



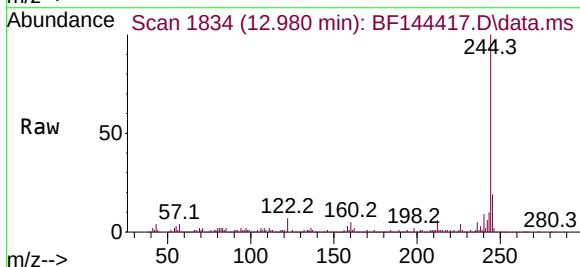
Tgt Ion:202 Resp: 365872
Ion Ratio Lower Upper
202 100
200 21.0 17.2 25.8
203 18.1 13.7 20.5

Manual Integrations
APPROVED

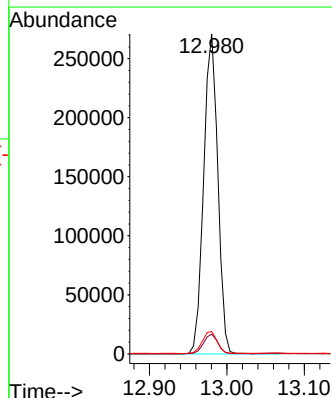
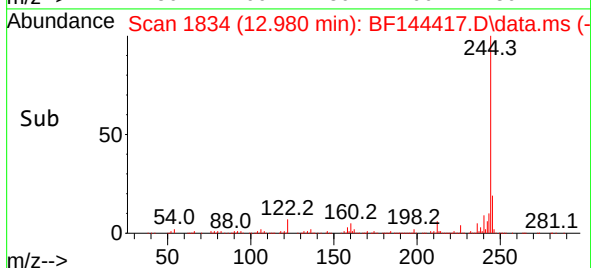
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

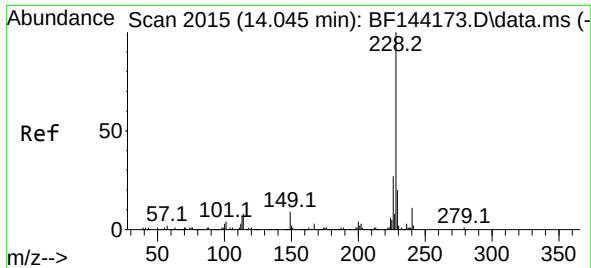


#79
Terphenyl-d14
Concen: 44.356 ng
RT: 12.980 min Scan# 1834
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08



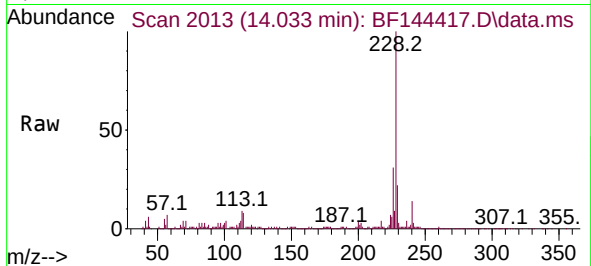
Tgt Ion:244 Resp: 342879
Ion Ratio Lower Upper
244 100
212 6.2 5.3 7.9
122 7.0 5.6 8.4





#81
Benzo(a)anthracene
Concen: 34.426 ng
RT: 14.033 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

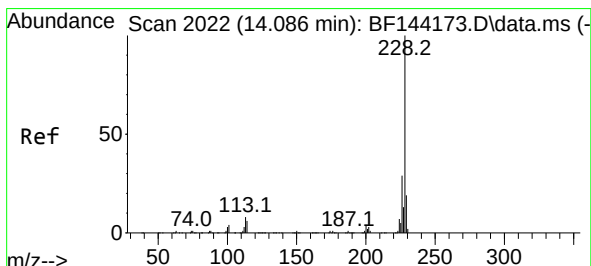
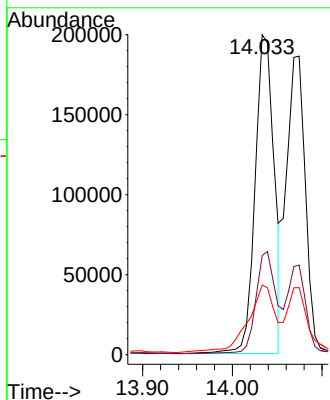
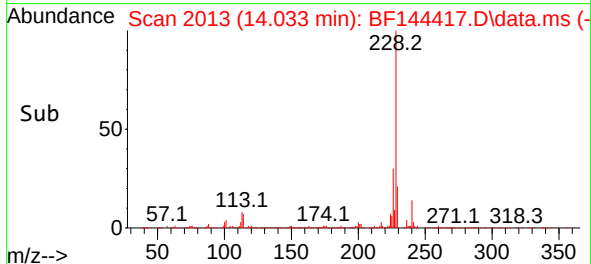
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



Tgt Ion:228 Resp: 292976
Ion Ratio Lower Upper
228 100
226 31.0 21.8 32.8
229 21.7 15.8 23.6

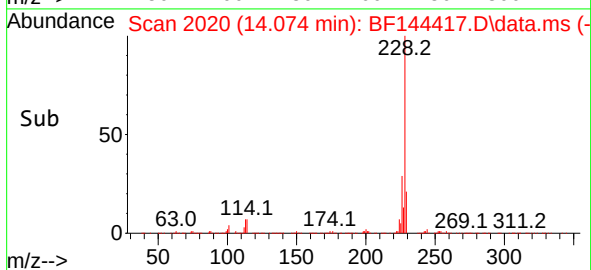
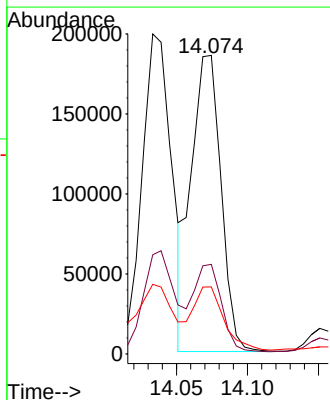
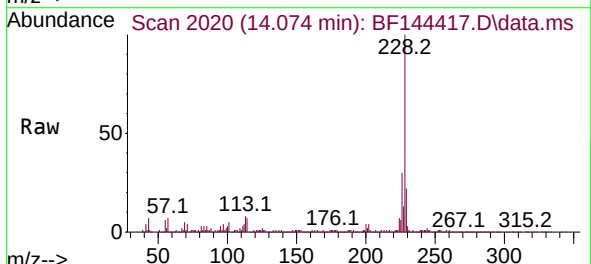
Manual Integrations
APPROVED

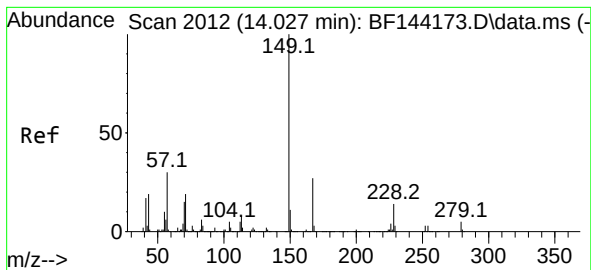
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#83
Chrysene
Concen: 34.326 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

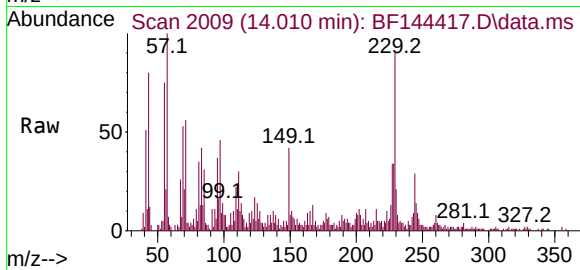
Tgt Ion:228 Resp: 269665
Ion Ratio Lower Upper
228 100
226 30.0 22.9 34.3
229 22.4 15.0 22.6





#84
Bis(2-ethylhexyl)phthalate
Concen: 2.930 ng
RT: 14.010 min Scan# 2012
Delta R.T. -0.018 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

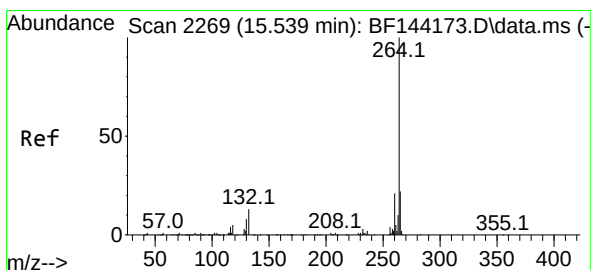
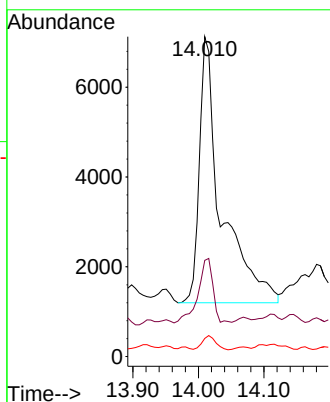
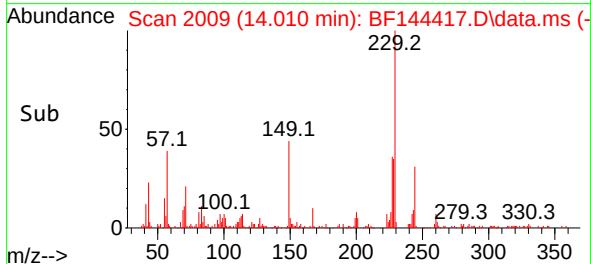
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



Tgt Ion:149 Resp: 13762
Ion Ratio Lower Upper
149 100
167 30.1 21.8 32.8
279 5.7 3.7 5.5

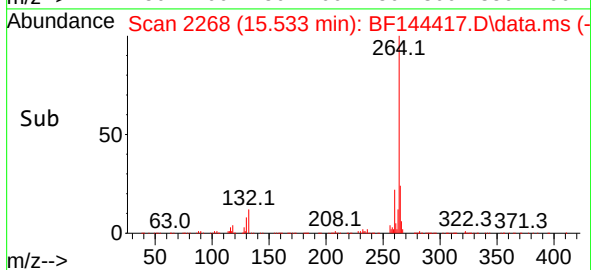
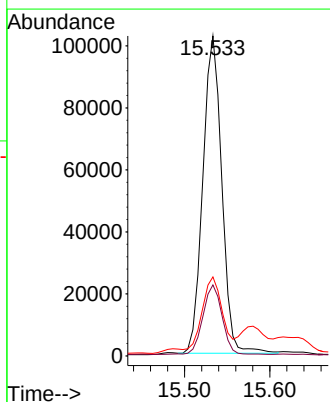
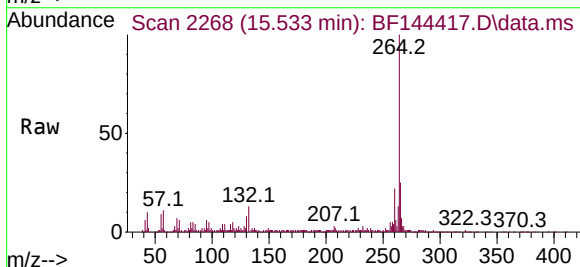
Manual Integrations
APPROVED

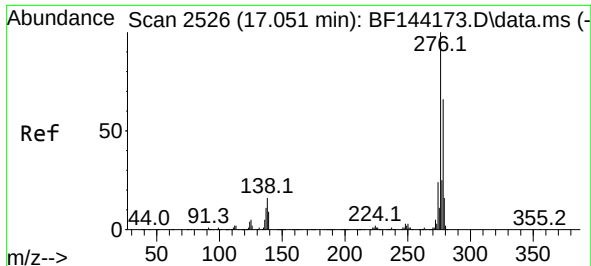
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:264 Resp: 158132
Ion Ratio Lower Upper
264 100
260 22.2 17.1 25.7
265 24.7 17.4 26.0





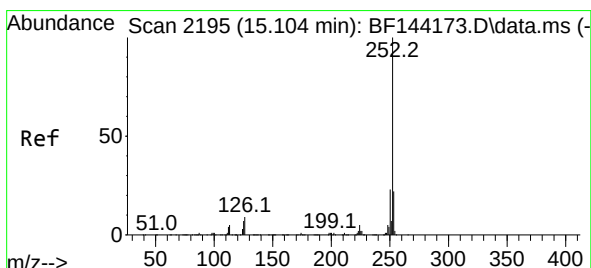
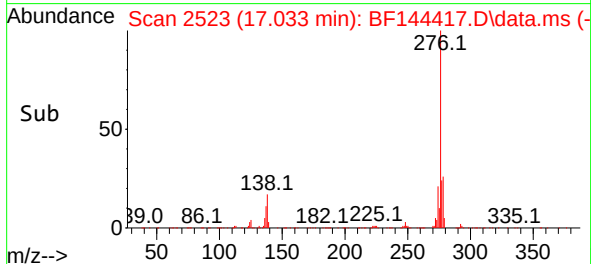
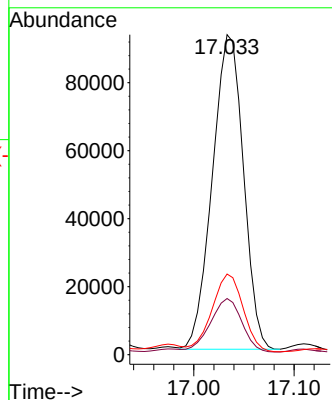
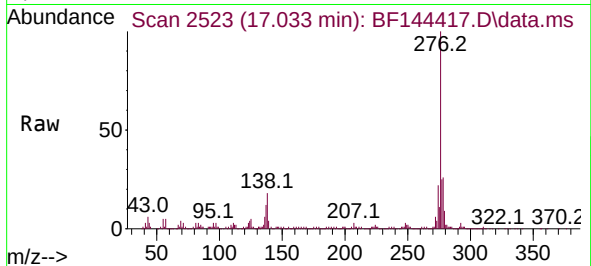
#87
Indeno(1,2,3-cd)pyrene
Concen: 17.582 ng
RT: 17.033 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

Tgt Ion:276 Resp: 199572
Ion Ratio Lower Upper
276 100
138 17.2 13.9 20.9
277 24.8 19.8 29.6

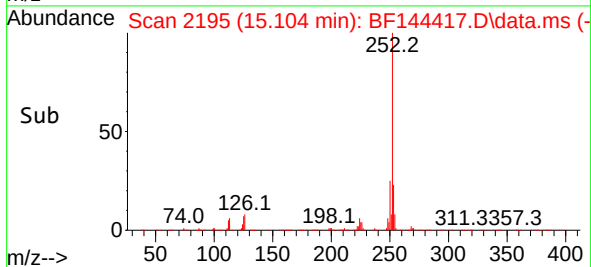
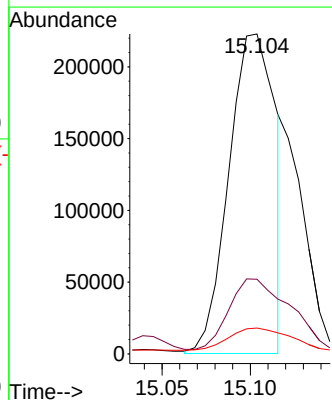
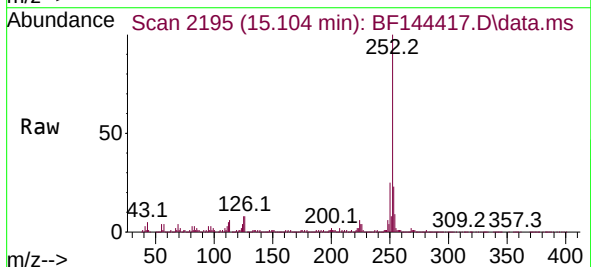
Manual Integrations
APPROVED

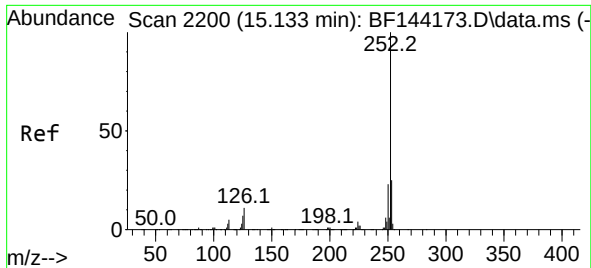
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#88
Benzo(b)fluoranthene
Concen: 45.374 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.006 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

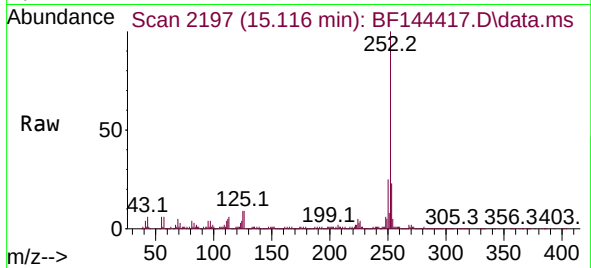
Tgt Ion:252 Resp: 407914
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.2
125 8.1 5.3 7.9#





#89
Benzo(k)fluoranthene
Concen: 16.333 ng m
RT: 15.116 min Scan# 2116
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

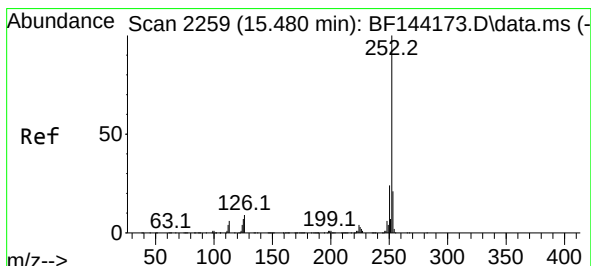
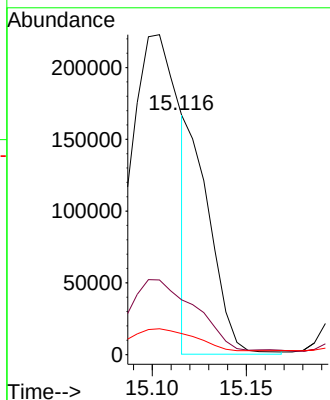
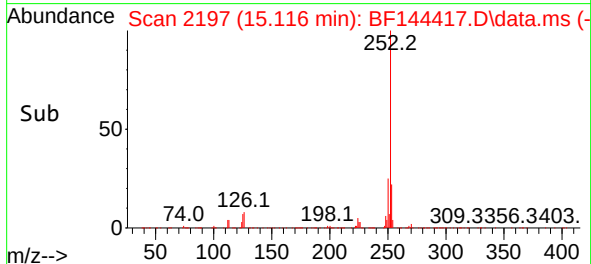
Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025



Tgt Ion:252 Resp: 137441
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 8.8 5.4 8.2

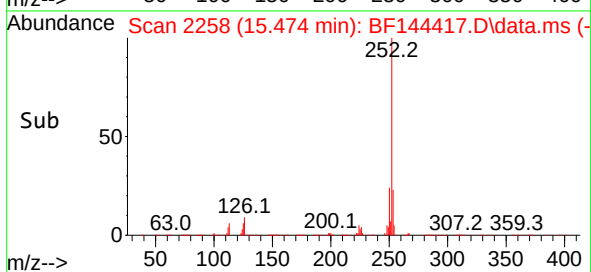
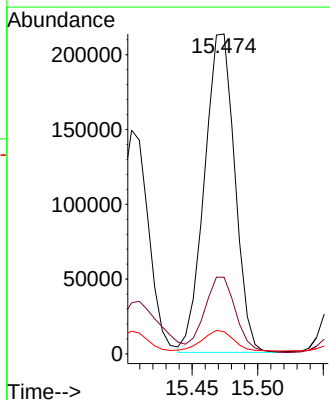
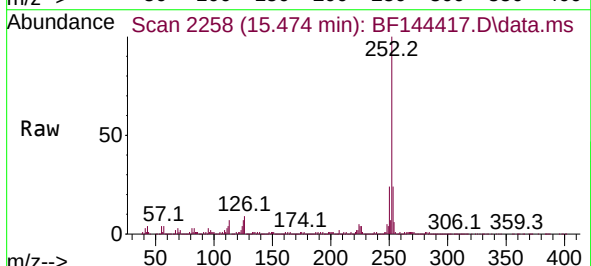
Manual Integrations
APPROVED

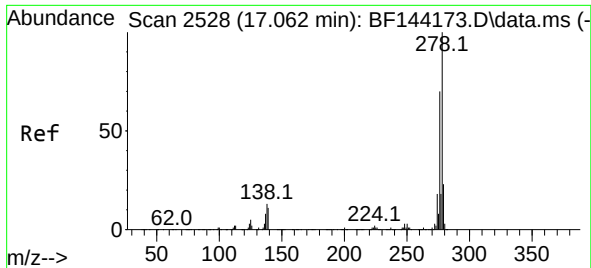
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#90
Benzo(a)pyrene
Concen: 41.349 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:252 Resp: 342940
Ion Ratio Lower Upper
252 100
253 23.9 16.7 25.1
125 6.9 5.7 8.5





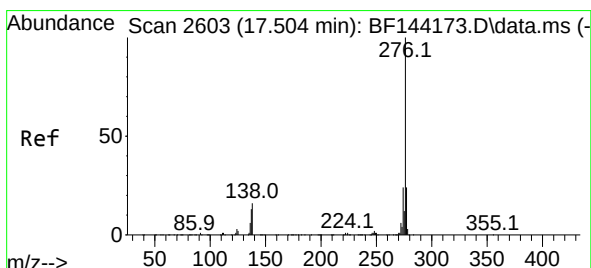
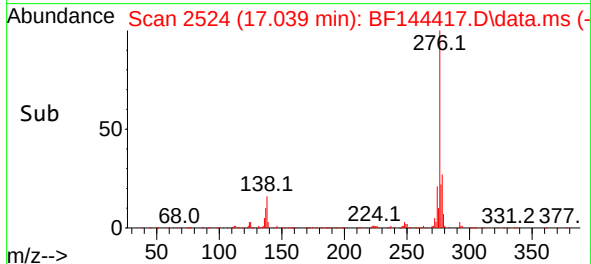
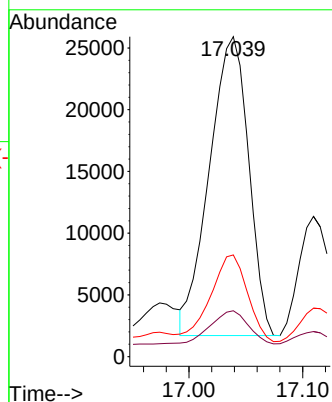
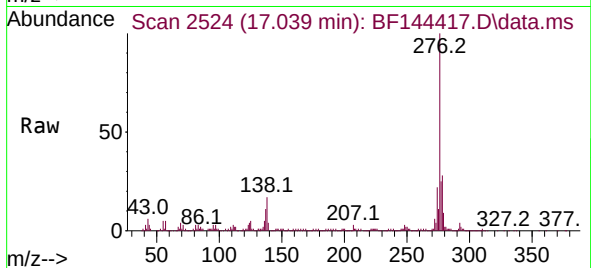
#91
Dibenzo(a,h)anthracene
Concen: 6.375 ng
RT: 17.039 min Scan# 2528
Delta R.T. -0.012 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Instrument :
BNA_F
ClientSampleId :
B50-SP14-112025

Tgt Ion:278 Resp: 5812
Ion Ratio Lower Upper
278 100
139 14.3 9.1 13.7
279 31.8 18.2 27.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#92
Benzo(g,h,i)perylene
Concen: 20.698 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.000 min
Lab File: BF144417.D
Acq: 03 Dec 2025 14:08

Tgt Ion:276 Resp: 186335
Ion Ratio Lower Upper
276 100
277 23.8 19.0 28.4
138 16.1 12.9 19.3

