

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
 Data File : BF142497.D
 Acq On : 21 May 2025 20:03
 Operator : RC/JU
 Sample : Q2074-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-12

Quant Time: May 22 01:02:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

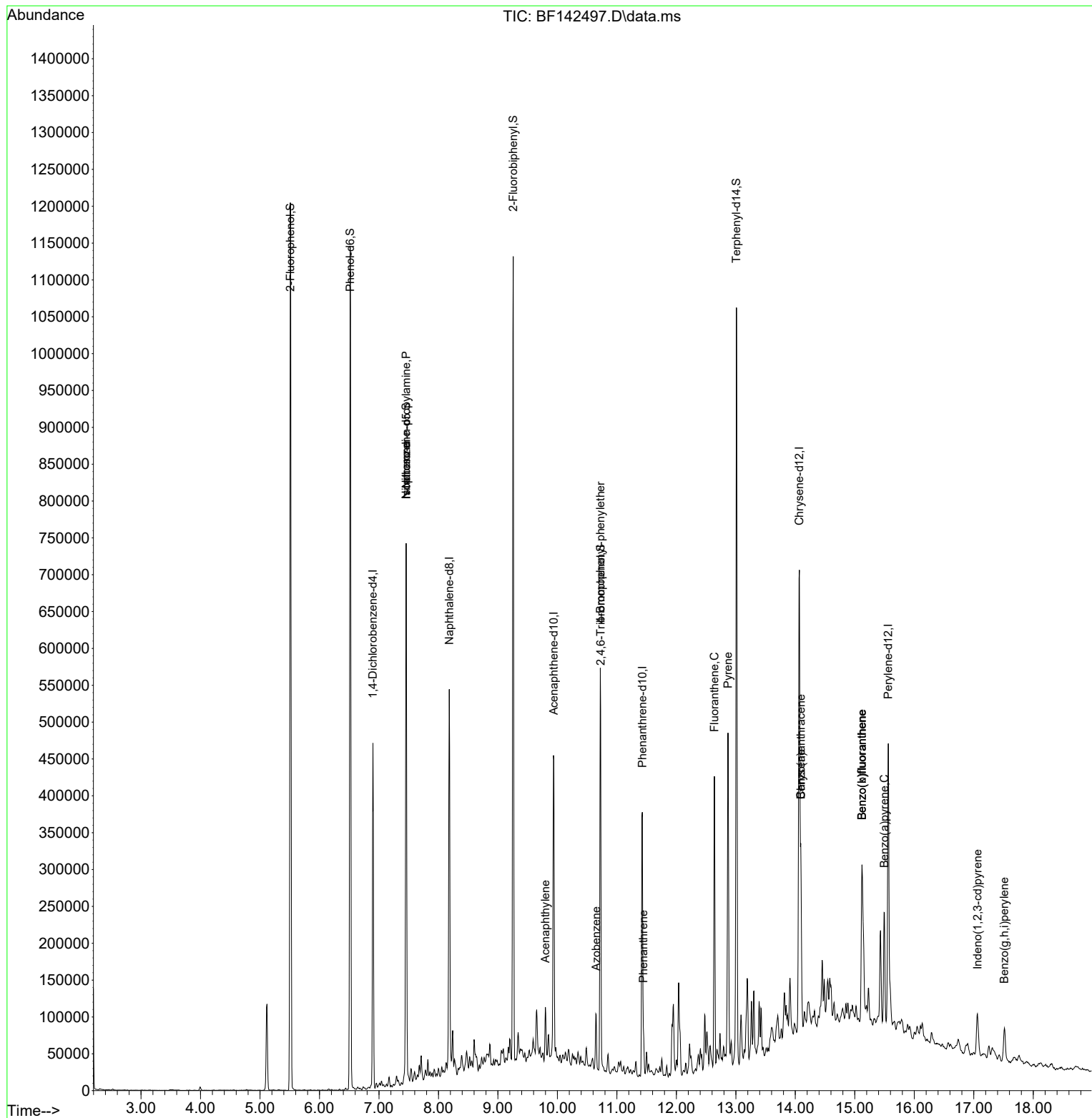
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	97395	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	321844	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	125382	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	190005	20.000	ng	0.00
76) Chrysene-d12	14.069	240	238862	20.000	ng	0.00
86) Perylene-d12	15.563	264	223453	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	462922	80.077	ng	0.00
7) Phenol-d6	6.516	99	530067	76.171	ng	-0.02
23) Nitrobenzene-d5	7.457	82	304142	51.530	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	92141	66.213	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	482404	51.628	ng	-0.01
79) Terphenyl-d14	13.010	244	487109	27.868	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.457	70	44506	10.319	ng	# 74
25) Isophorone	7.457	82	289594	29.346	ng	# 63
49) Acenaphthylene	9.798	152	35247	2.904	ng	99
63) Azobenzene	10.651	77	17170	2.366	ng	# 1
67) 4-Bromophenyl-phenylether	10.722	248	5896	2.624	ng	# 1
71) Phenanthrene	11.445	178	28594	2.816	ng	98
75) Fluoranthene	12.639	202	216327	22.800	ng	99
78) Pyrene	12.869	202	255707	11.476	ng	99
81) Benzo(a)anthracene	14.092	228	128789	8.074	ng	94
83) Chrysene	14.092	228	128789	8.986	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	41175	2.454	ng	96
88) Benzo(b)fluoranthene	15.121	252	189730	14.346	ng	# 96
89) Benzo(k)fluoranthene	15.121	252	189730	15.317	ng	# 96
90) Benzo(a)pyrene	15.498	252	95905	7.693	ng	97
92) Benzo(g,h,i)perylene	17.515	276	40056	2.943	ng	98

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

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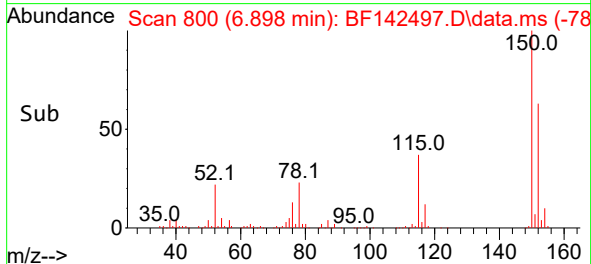
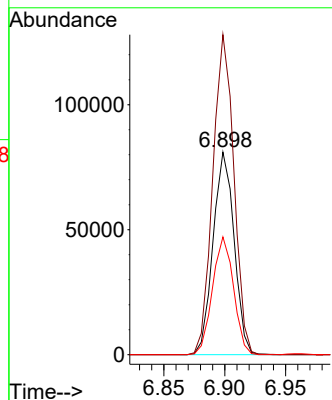
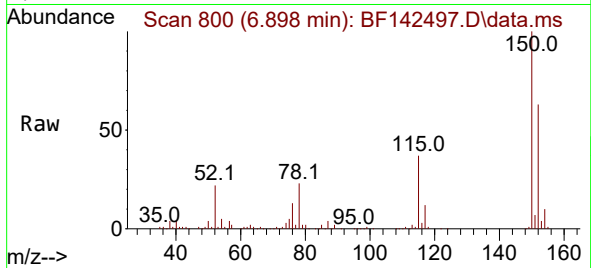




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

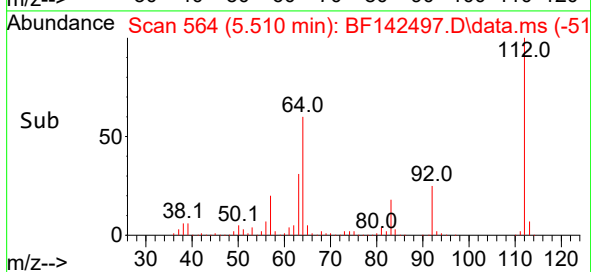
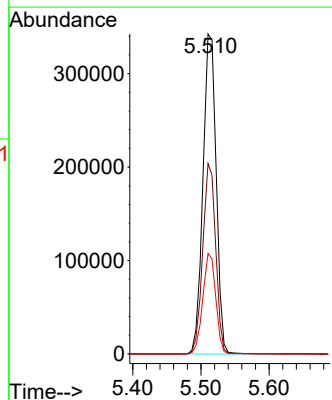
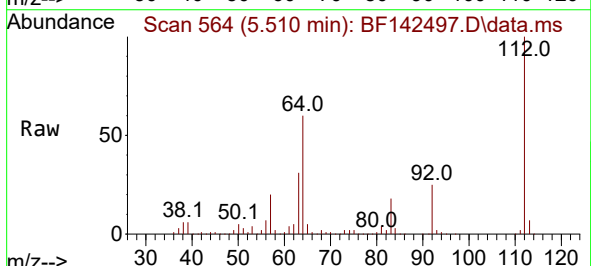
Instrument :
BNA_F
ClientSampleId :
TP-12

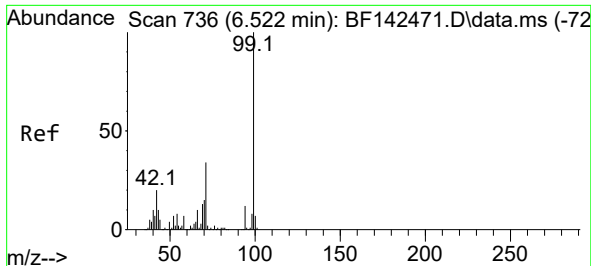
Tgt Ion:152 Resp: 97395
Ion Ratio Lower Upper
152 100
150 157.9 128.2 192.4
115 58.1 48.3 72.5



#5
2-Fluorophenol
Concen: 80.077 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

Tgt Ion:112 Resp: 462922
Ion Ratio Lower Upper
112 100
64 59.5 47.5 71.3
63 31.4 24.9 37.3

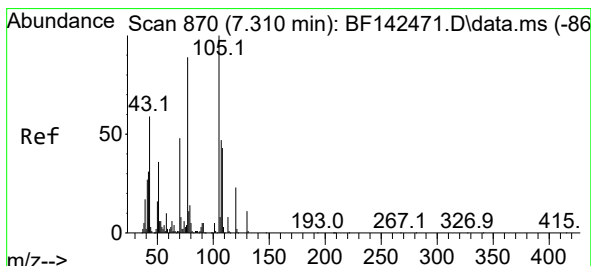
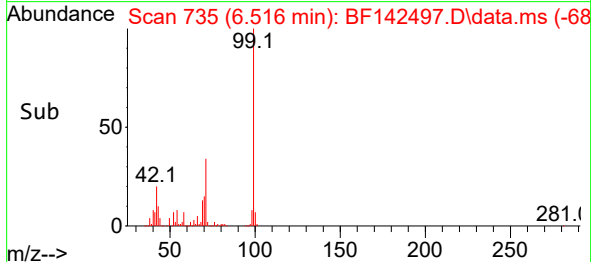
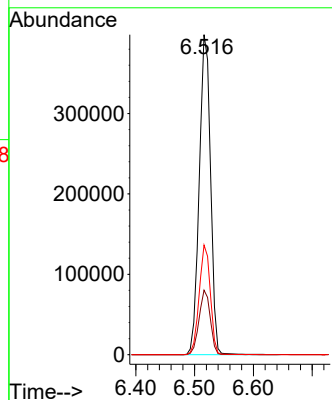
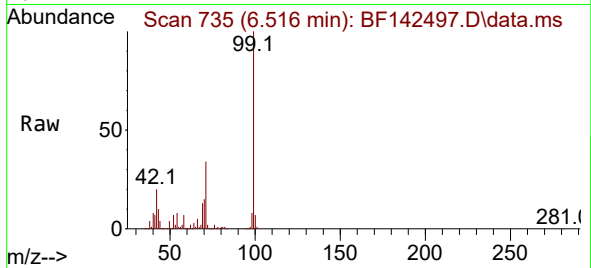




#7
Phenol-d6
Concen: 76.171 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

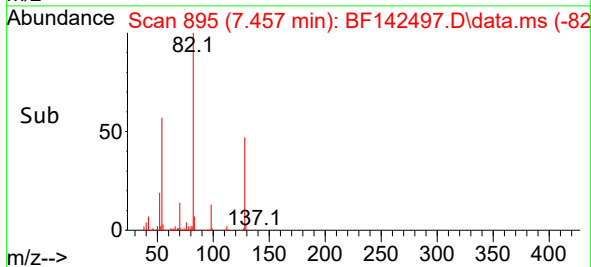
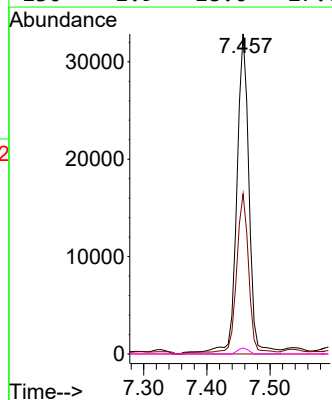
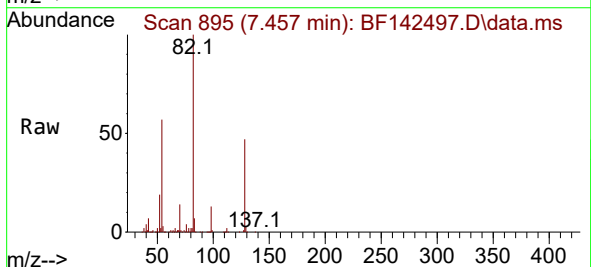
Instrument :
BNA_F
ClientSampleId :
TP-12

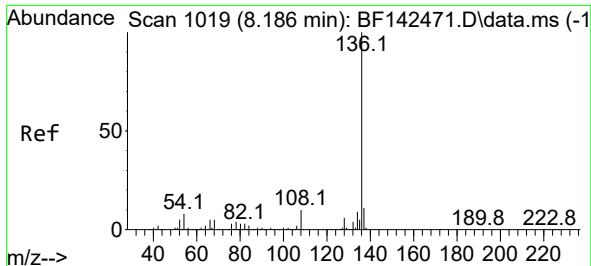
Tgt Ion: 99 Resp: 530067
Ion Ratio Lower Upper
99 100
42 20.2 16.2 24.2
71 34.3 27.3 40.9



#19
n-Nitroso-di-n-propylamine
Concen: 10.319 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.130 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

Tgt Ion: 70 Resp: 44506
Ion Ratio Lower Upper
70 100
42 50.0 52.4 78.6#
101 0.0 7.8 11.8#
130 1.9 18.0 27.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

Instrument :

BNA_F

ClientSampleId :

TP-12

Tgt Ion:136 Resp: 321844

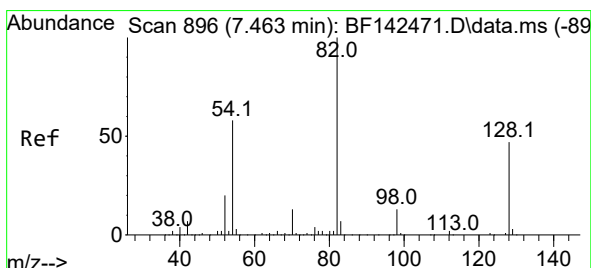
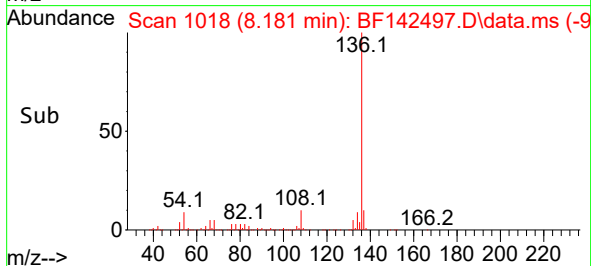
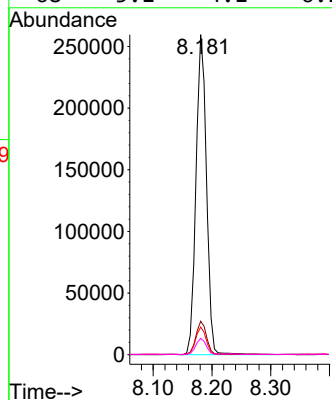
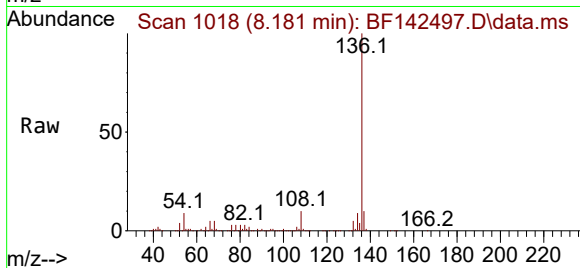
Ion Ratio Lower Upper

136 100

137 10.5 8.6 13.0

54 8.7 6.6 10.0

68 5.1 4.1 6.1



#23

Nitrobenzene-d5

Concen: 51.530 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

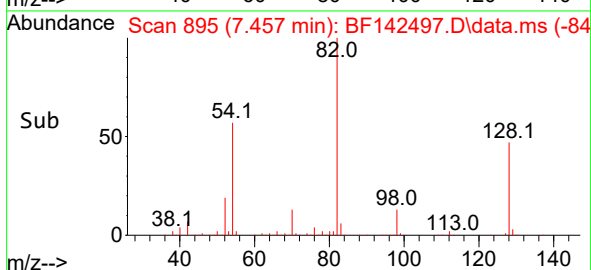
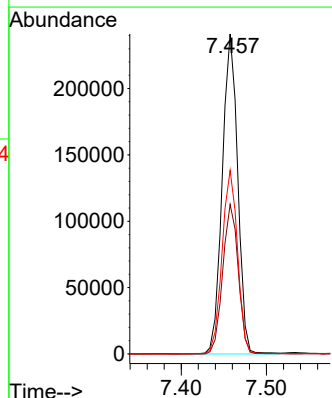
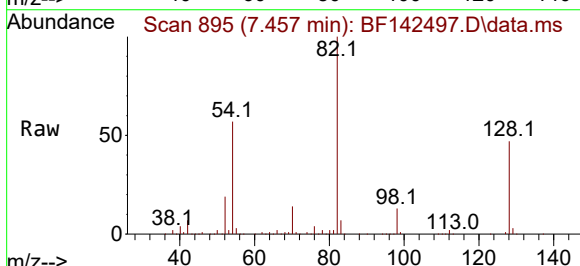
Tgt Ion: 82 Resp: 304142

Ion Ratio Lower Upper

82 100

128 46.8 37.4 56.2

54 57.4 46.6 70.0

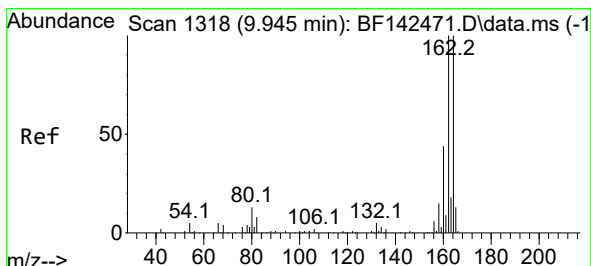
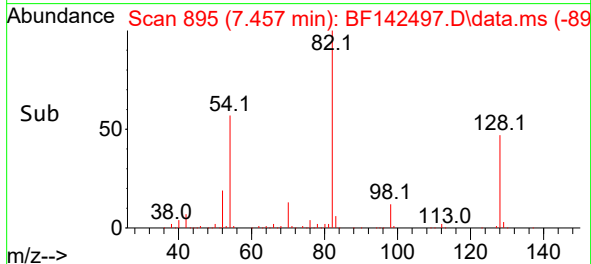
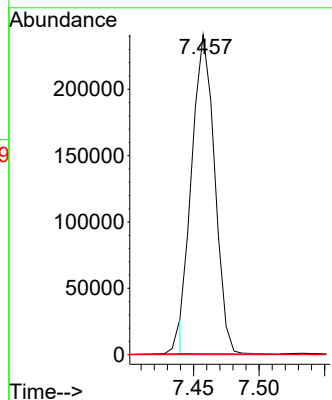
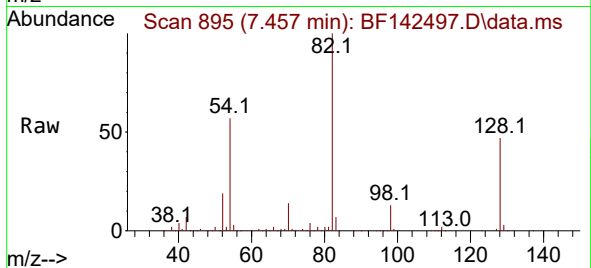




#25
Isophorone
Concen: 29.346 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.276 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

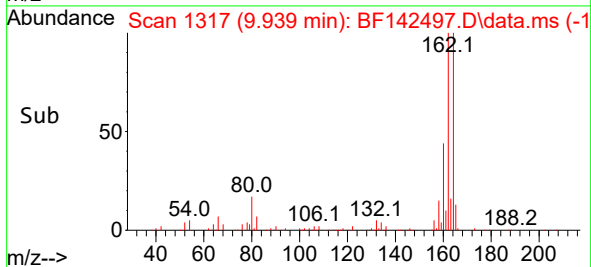
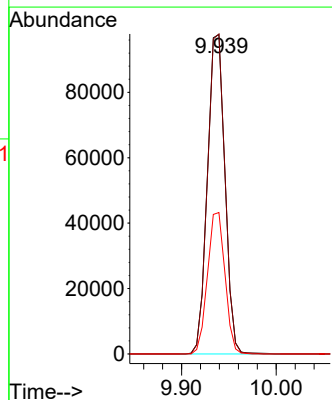
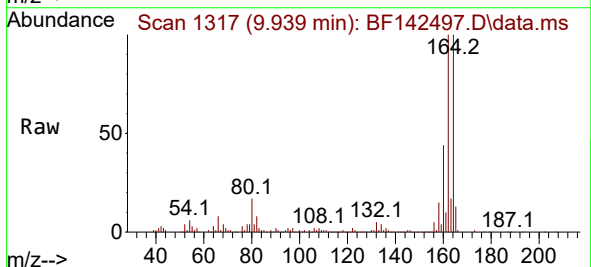
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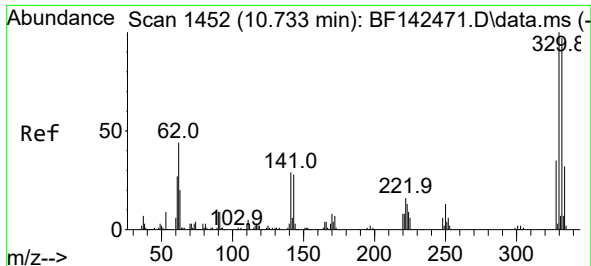
Tgt Ion: 82 Resp: 289594
Ion Ratio Lower Upper
82 100
95 0.3 6.0 9.0#
138 0.0 15.5 23.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

Tgt Ion:164 Resp: 125382
Ion Ratio Lower Upper
164 100
162 100.2 80.2 120.4
160 44.3 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 66.213 ng

RT: 10.728 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

Instrument :

BNA_F

ClientSampleId :

TP-12

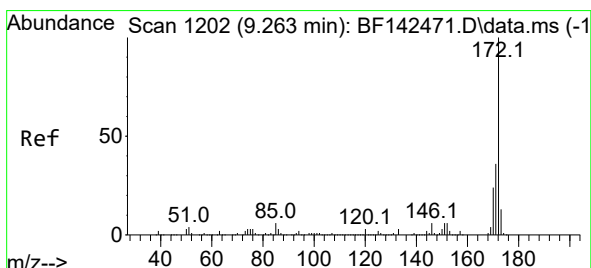
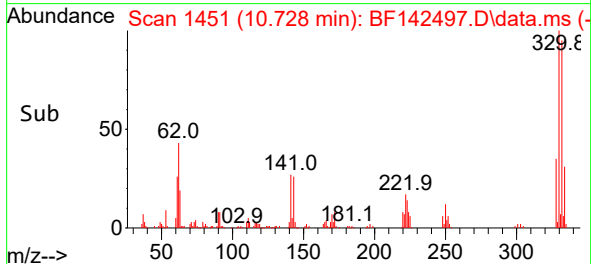
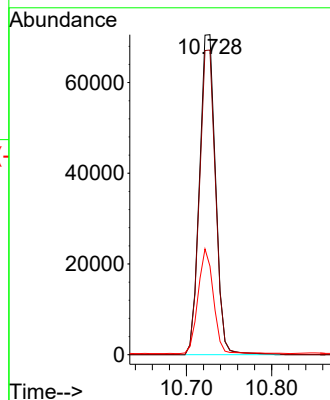
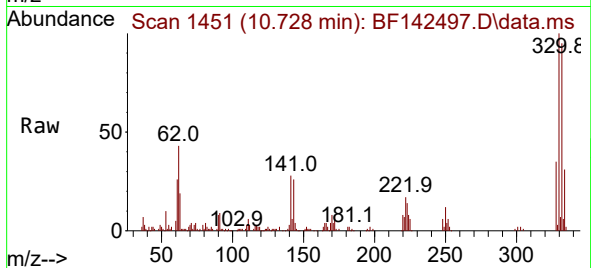
Tgt Ion:330 Resp: 92141

Ion Ratio Lower Upper

330 100

332 95.9 77.6 116.4

141 31.5 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 51.628 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

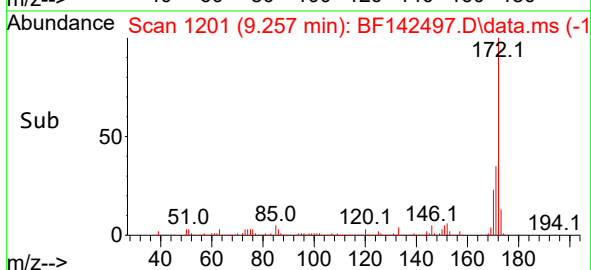
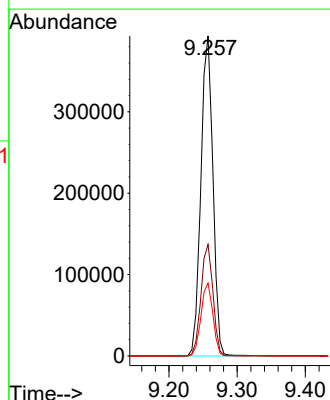
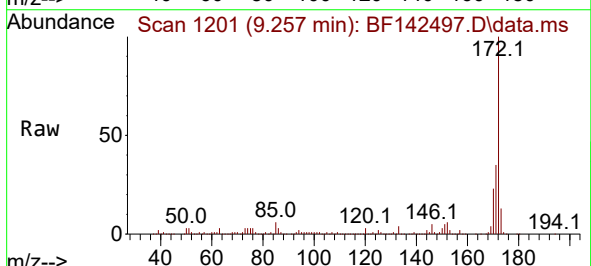
Tgt Ion:172 Resp: 482404

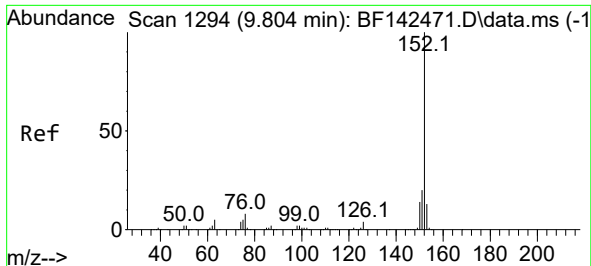
Ion Ratio Lower Upper

172 100

171 34.8 28.6 42.8

170 22.7 18.9 28.3

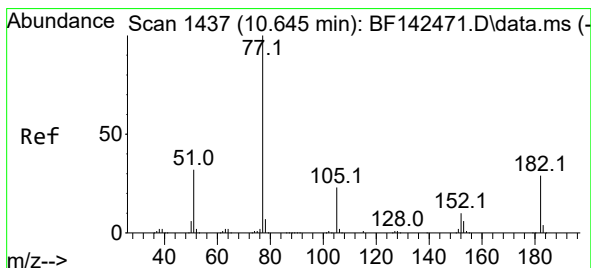
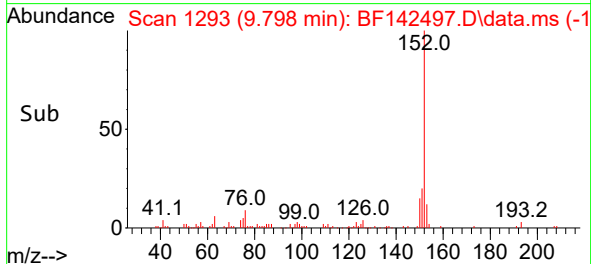
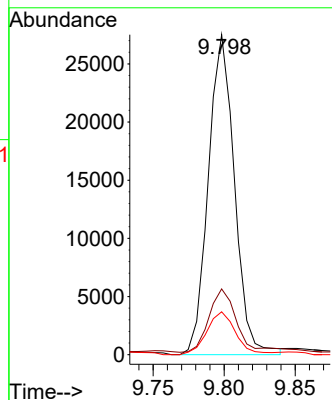
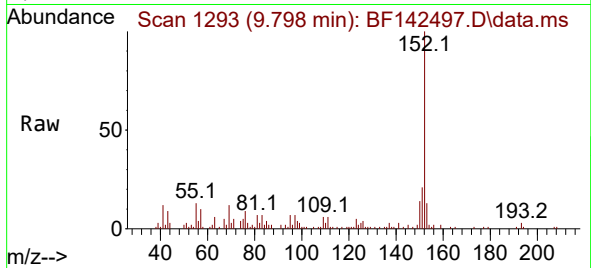




#49
Acenaphthylene
Concen: 2.904 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

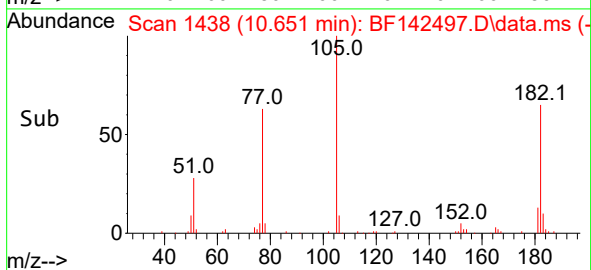
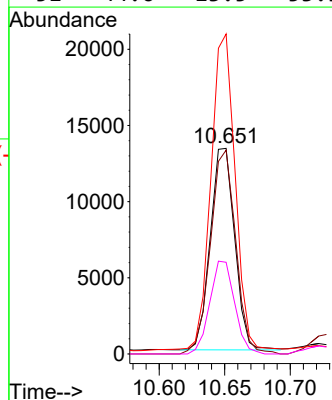
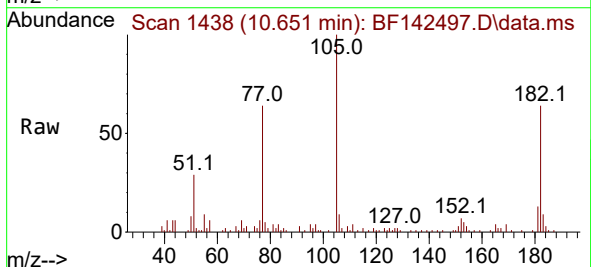
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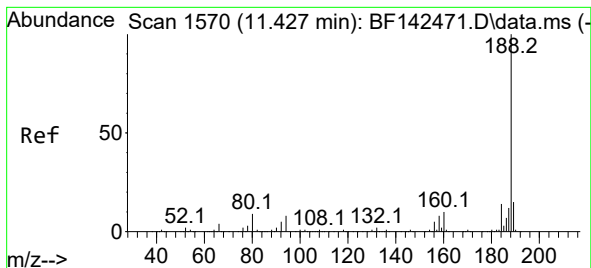
Tgt Ion:152	Resp:	35247
Ion Ratio	Lower	Upper
152	100	
151	20.6	15.8 23.8
153	13.4	10.6 15.8



#63
Azobenzene
Concen: 2.366 ng
RT: 10.651 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

Tgt Ion: 77	Resp:	17170
Ion Ratio	Lower	Upper
77	100	
182	99.1	9.0 49.0#
105	155.6	2.4 42.4#
51	44.6	13.5 53.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.428 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

Instrument :

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ClientSampleId :

TP-12

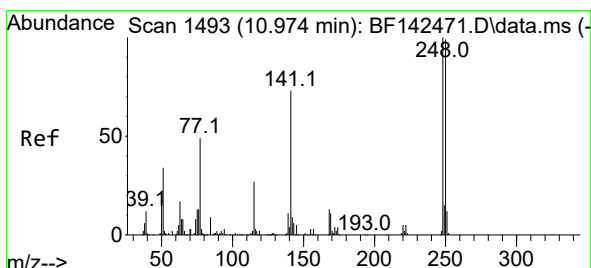
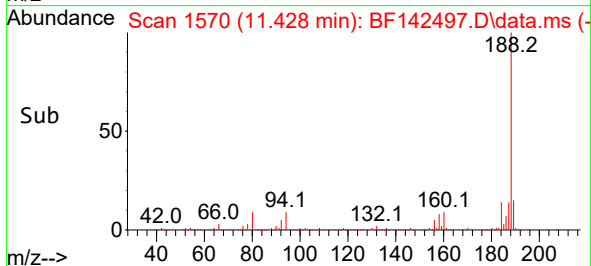
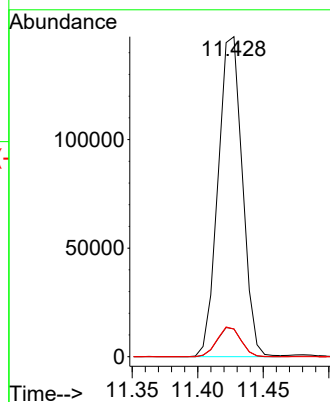
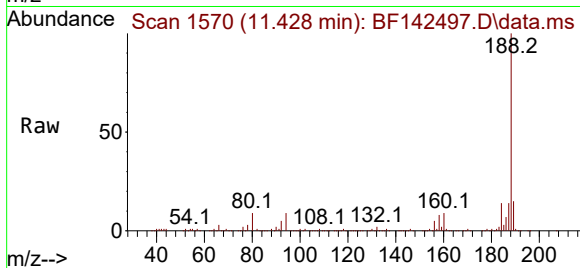
Tgt Ion:188 Resp: 190005

Ion Ratio Lower Upper

188 100

94 8.7 6.6 10.0

80 8.7 7.4 11.0



#67

4-Bromophenyl-phenylether

Concen: 2.624 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.253 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

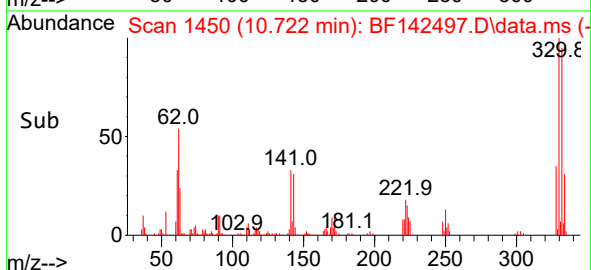
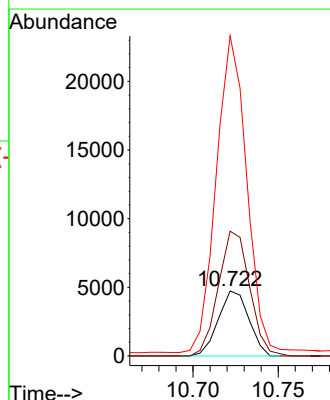
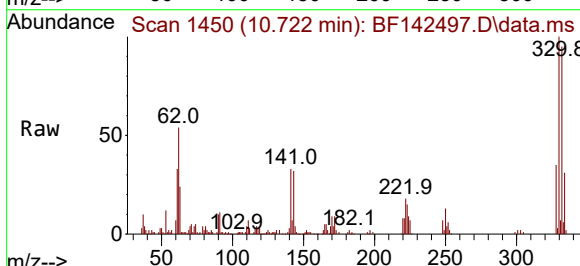
Tgt Ion:248 Resp: 5896

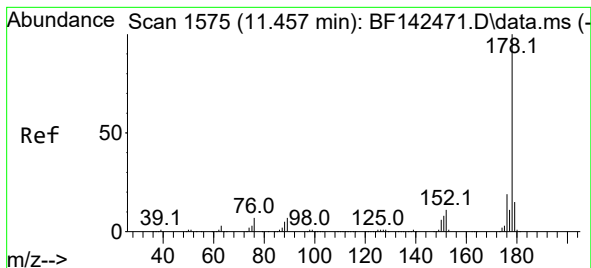
Ion Ratio Lower Upper

248 100

250 192.0 79.0 118.4#

141 492.4 58.4 87.6#





#71

Phenanthrene

Concen: 2.816 ng

RT: 11.445 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

Instrument :

BNA_F

ClientSampleId :

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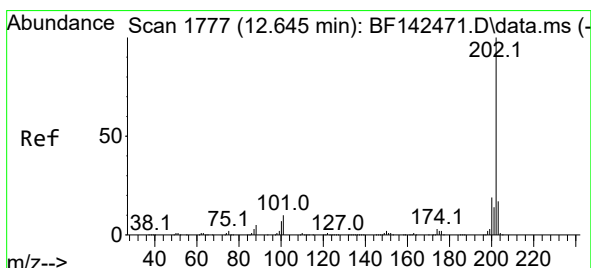
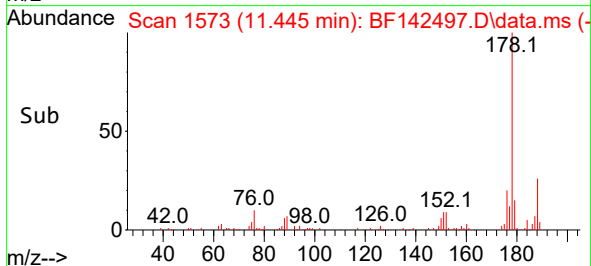
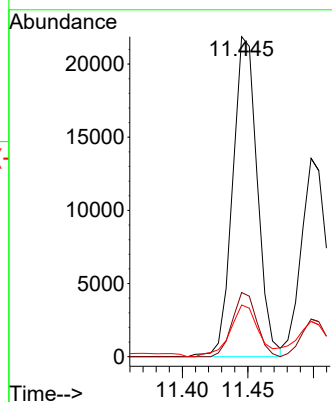
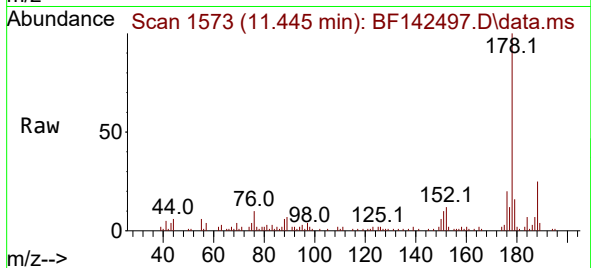
Tgt Ion:178 Resp: 28594

Ion Ratio Lower Upper

178 100

176 20.0 15.4 23.0

179 16.1 12.3 18.5



#75

Fluoranthene

Concen: 22.800 ng

RT: 12.639 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

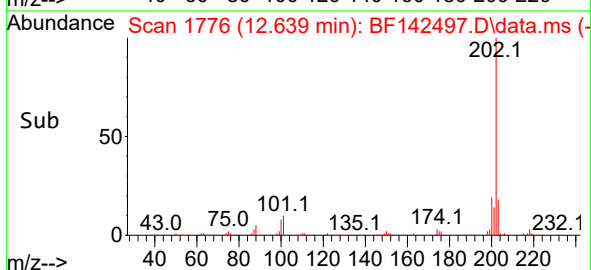
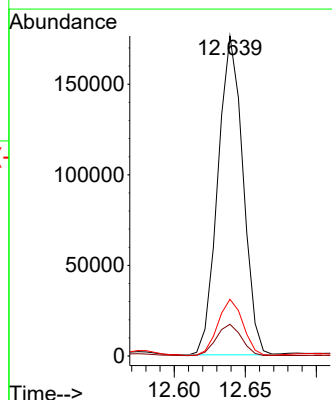
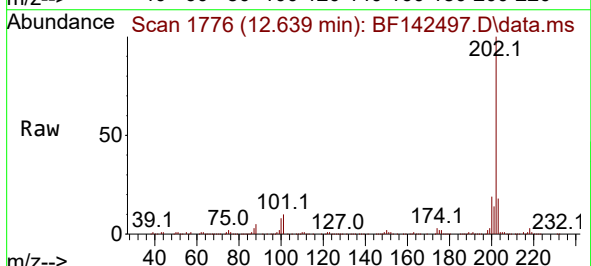
Tgt Ion:202 Resp: 216327

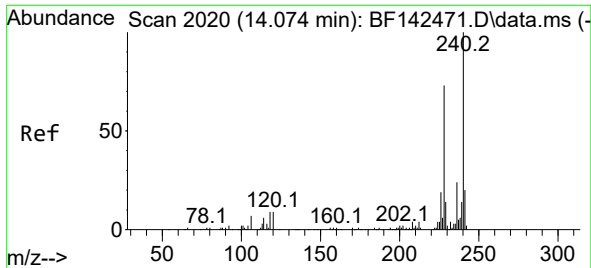
Ion Ratio Lower Upper

202 100

101 9.9 0.0 29.6

203 17.7 0.0 37.2

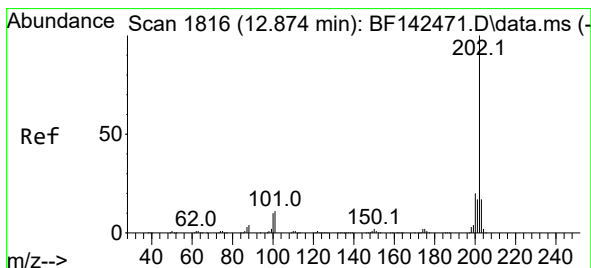
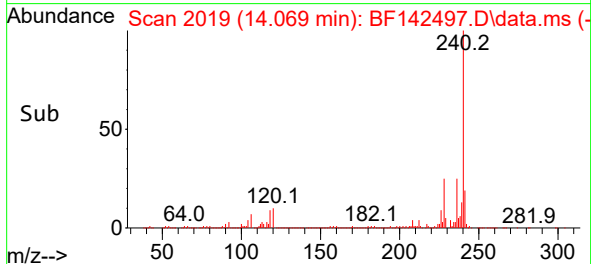
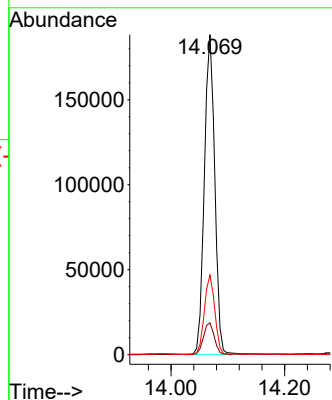
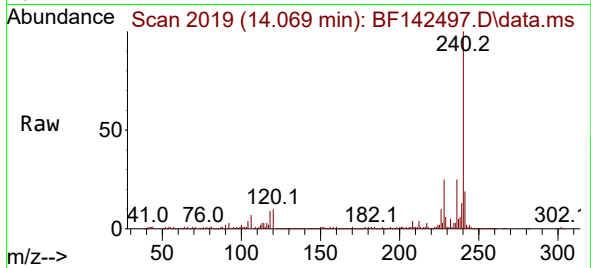




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

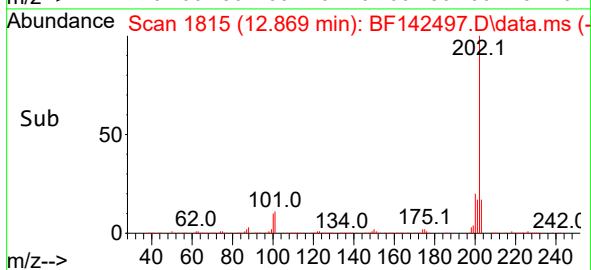
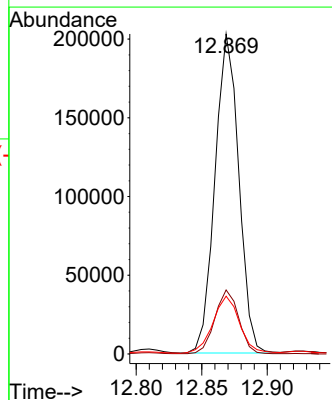
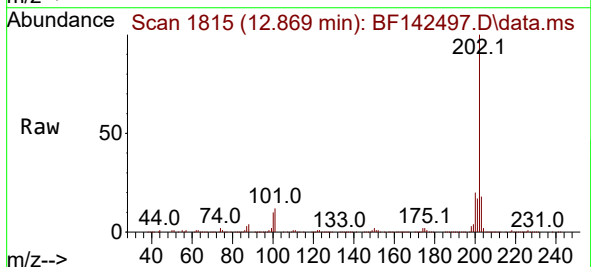
Instrument :
BNA_F
ClientSampleId :
TP-12

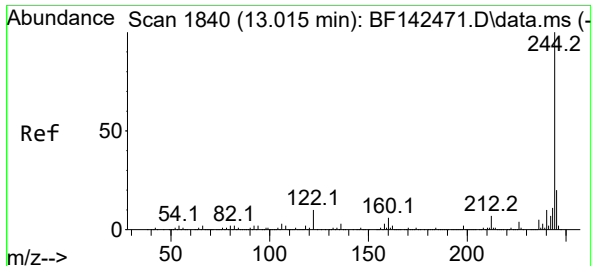
Tgt Ion:240 Resp: 238862
Ion Ratio Lower Upper
240 100
120 10.0 7.5 11.3
236 24.8 19.6 29.4



#78
Pyrene
Concen: 11.476 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

Tgt Ion:202 Resp: 255707
Ion Ratio Lower Upper
202 100
200 20.0 16.1 24.1
203 18.1 13.9 20.9

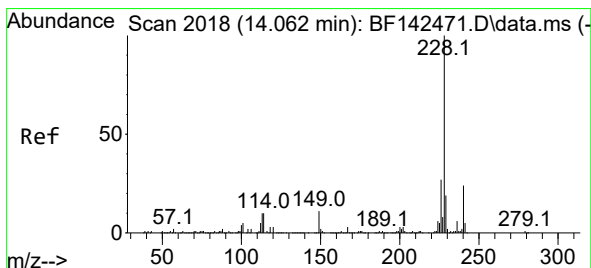
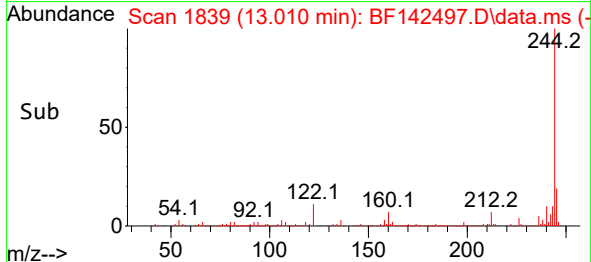
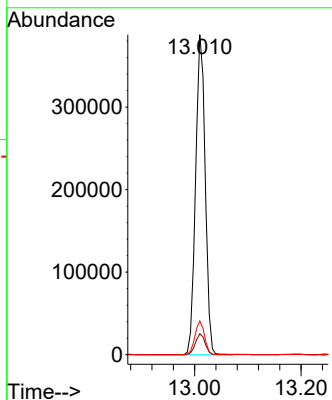
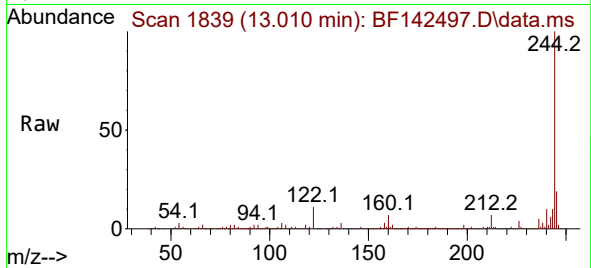




#79
 Terphenyl-d14
 Concen: 27.868 ng
 RT: 13.010 min Scan# 1840
 Delta R.T. -0.006 min
 Lab File: BF142497.D
 Acq: 21 May 2025 20:03

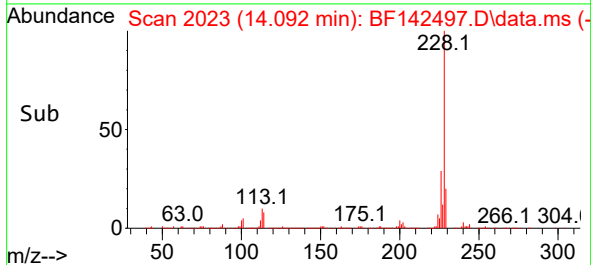
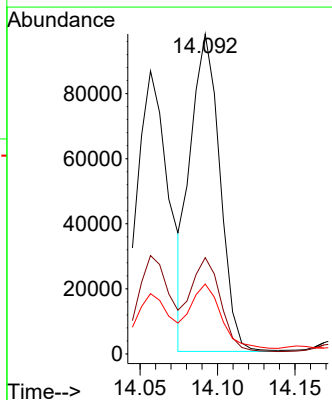
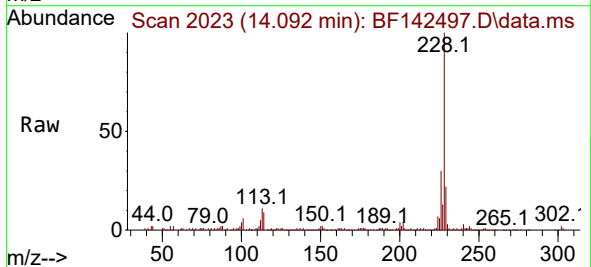
Instrument :
 BNA_F
 ClientSampleId :
 TP-12

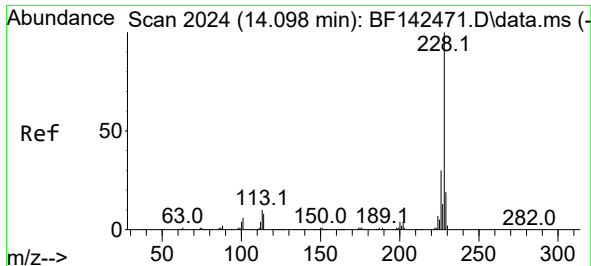
Tgt Ion:244 Resp: 487109
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.3 7.9
 122 10.6 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 8.074 ng
 RT: 14.092 min Scan# 2023
 Delta R.T. 0.030 min
 Lab File: BF142497.D
 Acq: 21 May 2025 20:03

Tgt Ion:228 Resp: 128789
 Ion Ratio Lower Upper
 228 100
 226 30.1 21.2 31.8
 229 21.9 15.5 23.3

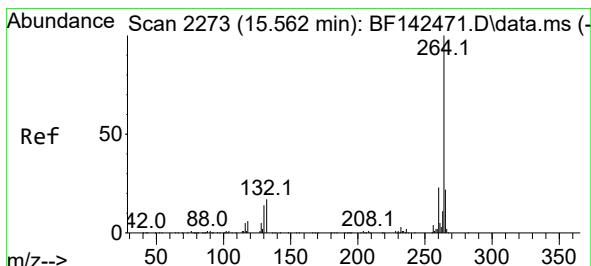
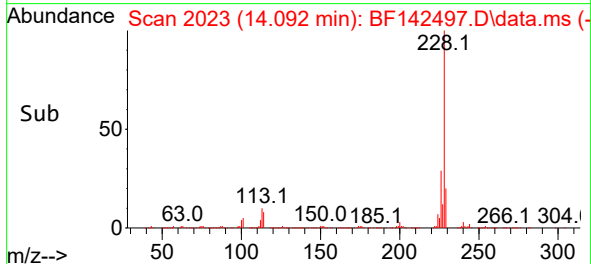
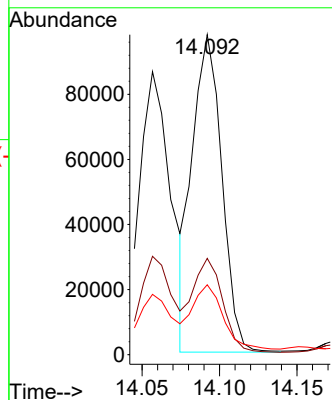
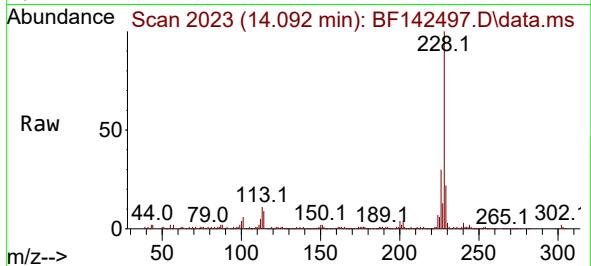




#83
Chrysene
Concen: 8.986 ng
RT: 14.092 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

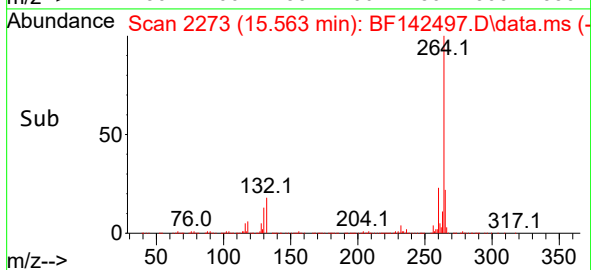
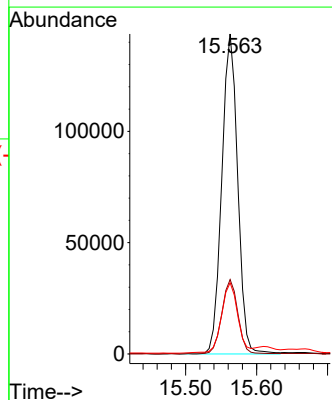
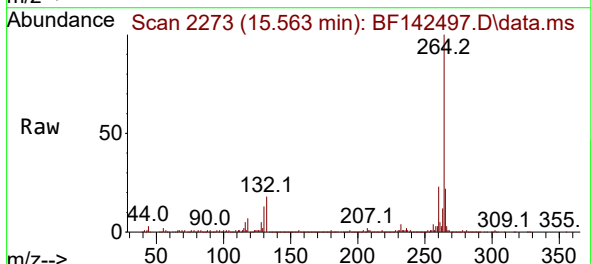
Instrument :
BNA_F
ClientSampleId :
TP-12

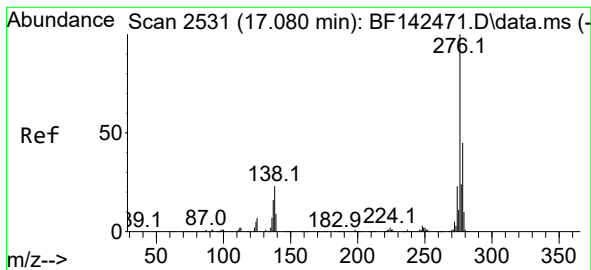
Tgt Ion:228 Resp: 128789
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.6
229 21.9 15.4 23.2



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142497.D
Acq: 21 May 2025 20:03

Tgt Ion:264 Resp: 223453
Ion Ratio Lower Upper
264 100
260 23.3 18.6 28.0
265 22.2 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.454 ng

RT: 17.062 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

Instrument :

BNA_F

ClientSampleId :

TP-12

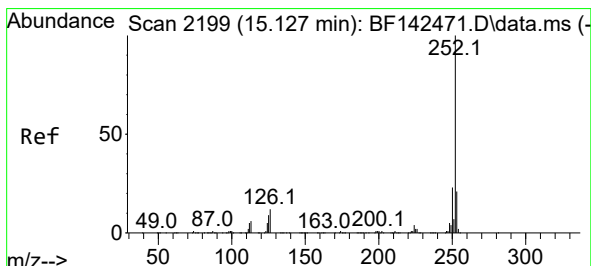
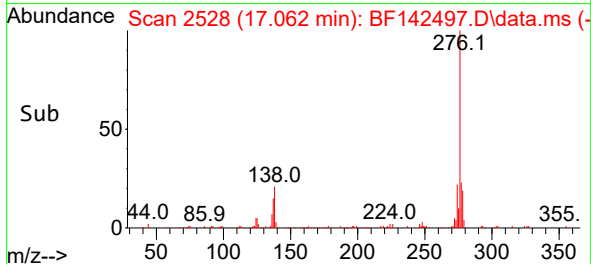
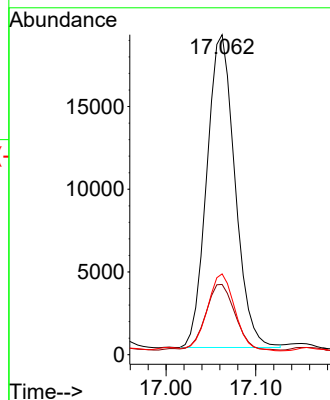
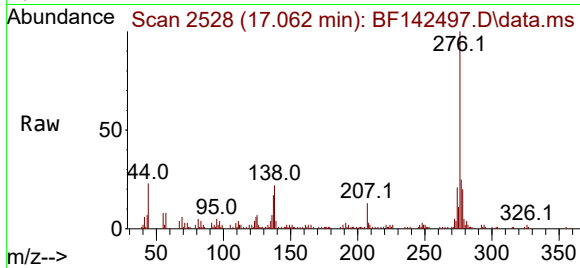
Tgt Ion:276 Resp: 41175

Ion Ratio Lower Upper

276 100

138 22.2 19.9 29.9

277 24.2 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 14.346 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

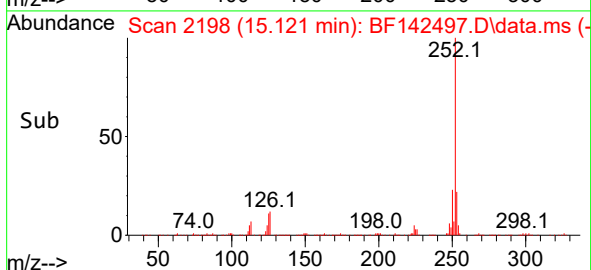
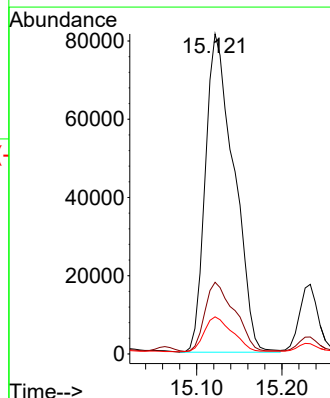
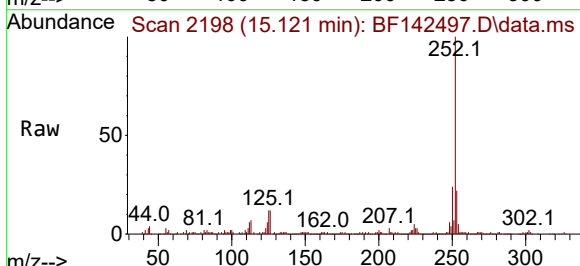
Tgt Ion:252 Resp: 189730

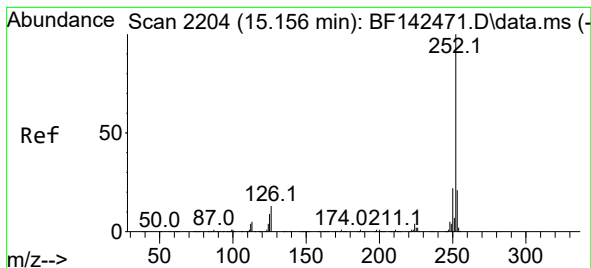
Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.4

125 11.6 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 15.317 ng

RT: 15.121 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

Instrument :

BNA_F

ClientSampleId :

TP-12

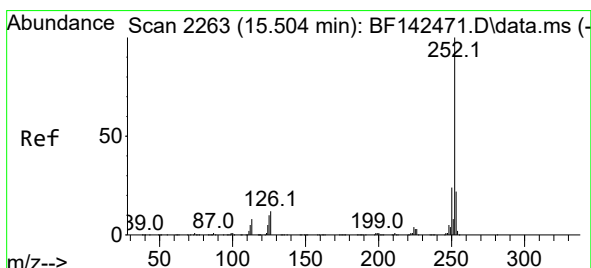
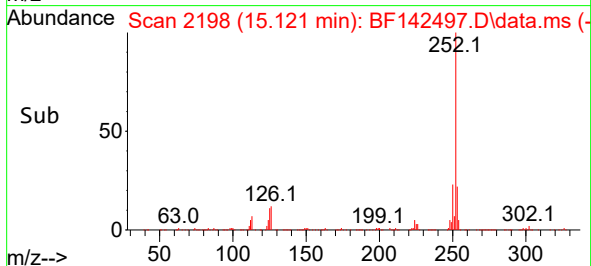
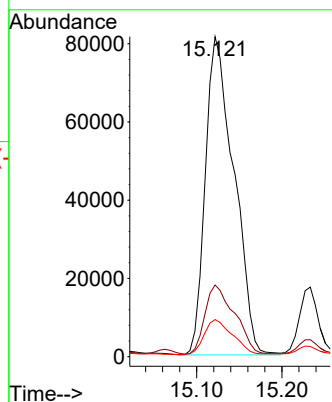
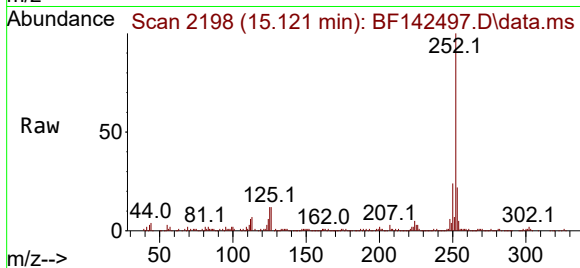
Tgt Ion:252 Resp: 189730

Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.4

125 11.6 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 7.693 ng

RT: 15.498 min Scan# 2262

Delta R.T. -0.012 min

Lab File: BF142497.D

Acq: 21 May 2025 20:03

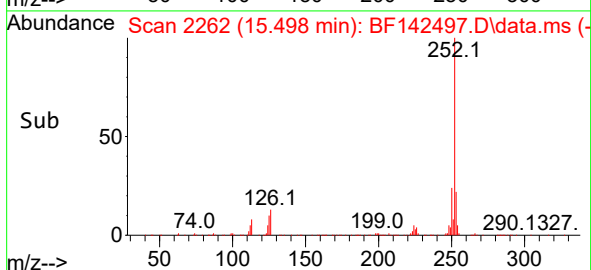
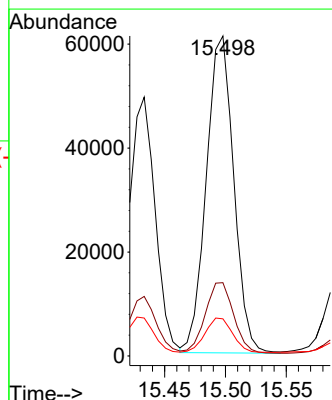
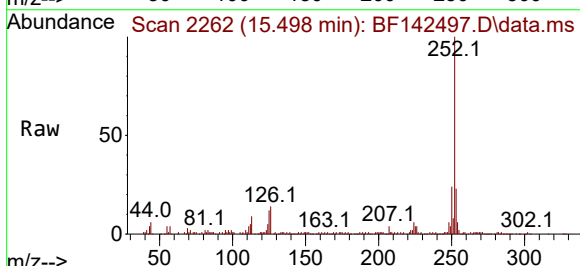
Tgt Ion:252 Resp: 95905

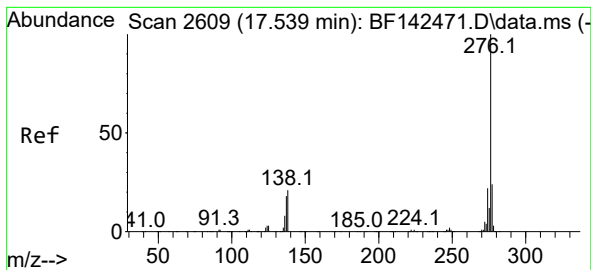
Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

125 11.6 7.9 11.9





#92

Benzo(g,h,i)perylene

Concen: 2.943 ng

RT: 17.515 min Scan# 20

Delta R.T. -0.041 min

Lab File: BF142497.D

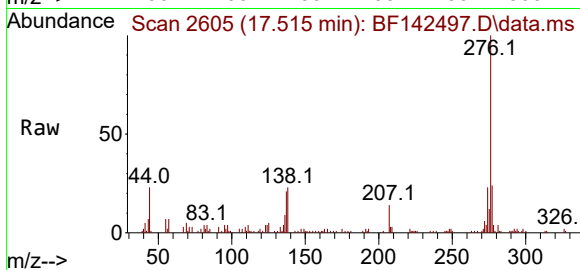
Acq: 21 May 2025 20:03

Instrument :

BNA_F

ClientSampleId :

TP-12



Tgt Ion:276 Resp: 40056

Ion Ratio Lower Upper

276 100

277 24.2 19.2 28.8

138 23.2 16.8 25.2

