

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121225\
 Data File : BP026319.D
 Acq On : 12 Dec 2025 21:10
 Operator : RC/JU
 Sample : Q3846-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 BU-02-12112025

Quant Time: Dec 15 02:20:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP111825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 15 01:38:31 2025
 Response via : Initial Calibration

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

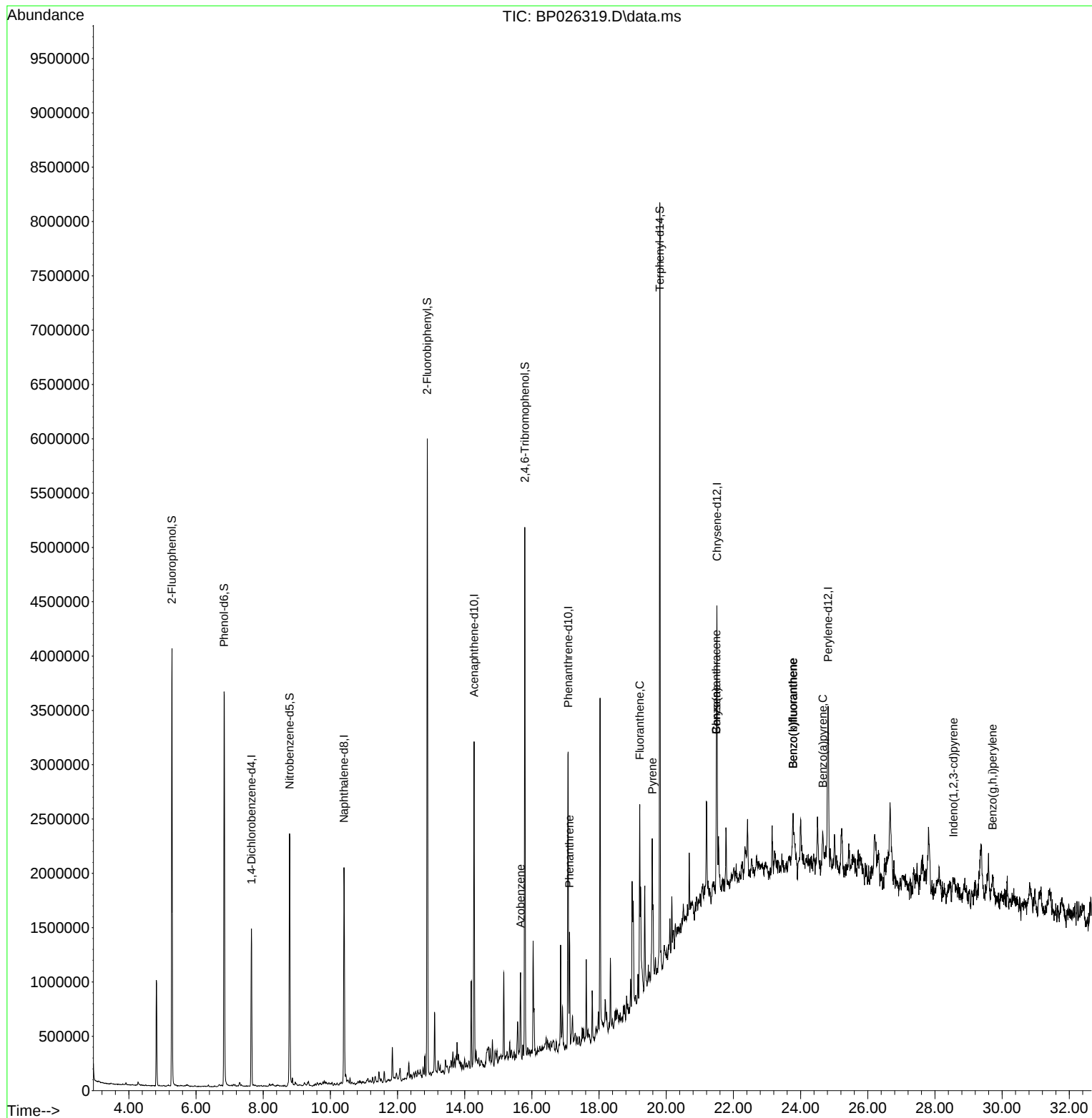
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.649	152	422378	20.000	ng	-0.02
21) Naphthalene-d8	10.407	136	1642712	20.000	ng	-0.04
39) Acenaphthene-d10	14.278	164	1008230	20.000	ng	-0.04
64) Phenanthrene-d10	17.078	188	1793274	20.000	ng	-0.05
76) Chrysene-d12	21.507	240	1378390	20.000	ng	-0.07
86) Perylene-d12	24.818	264	1553759	20.000	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.284	112	1857264	70.693	ng	0.00
7) Phenol-d6	6.837	99	2252833	67.932	ng	-0.02
23) Nitrobenzene-d5	8.784	82	1377668	47.737	ng	-0.03
42) 2,4,6-Tribromophenol	15.789	330	973331	74.234	ng	-0.04
45) 2-Fluorobiphenyl	12.884	172	3360526	48.459	ng	-0.04
79) Terphenyl-d14	19.807	244	3656902	54.226	ng	-0.06
Target Compounds						
						Qvalue
63) Azobenzene	15.660	77	210398	3.321	ng	# 1
71) Phenanthrene	17.119	178	672272	6.650	ng	100
75) Fluoranthene	19.213	202	988009	8.030	ng	98
78) Pyrene	19.583	202	872405	9.712	ng	98
81) Benzo(a)anthracene	21.489	228	391915	4.145	ng	95
83) Chrysene	21.489	228	391915	4.378	ng	96
87) Indeno(1,2,3-cd)pyrene	28.547	276	267394	2.277	ng	97
88) Benzo(b)fluoranthene	23.777	252	536232	5.679	ng	# 85
89) Benzo(k)fluoranthene	23.777	252	536232	5.677	ng	# 85
90) Benzo(a)pyrene	24.659	252	360018	4.021	ng	# 86
92) Benzo(g,h,i)perylene	29.712	276	280534	2.930	ng	# 90

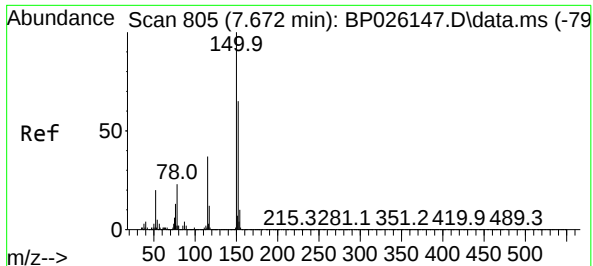
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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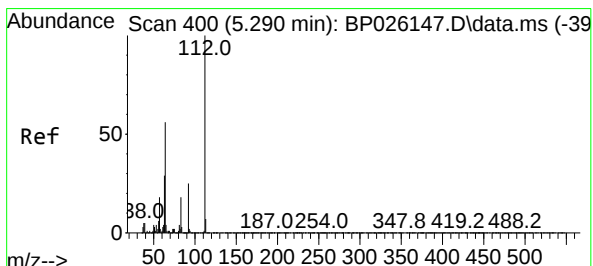
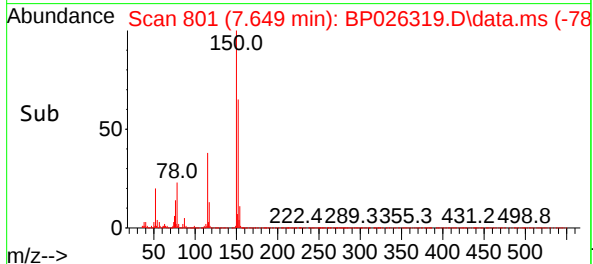
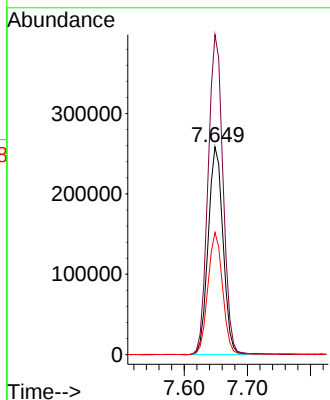
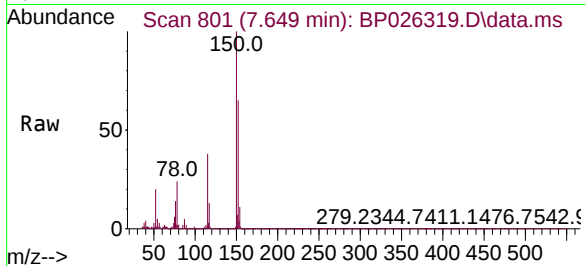




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.649 min Scan# 805
Delta R.T. -0.023 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

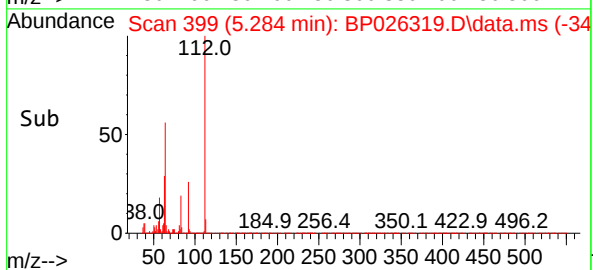
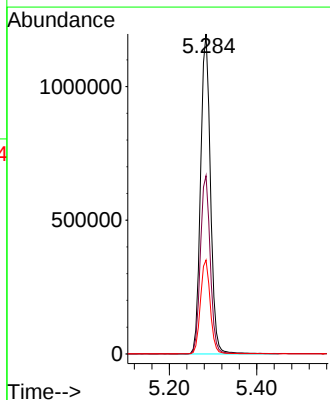
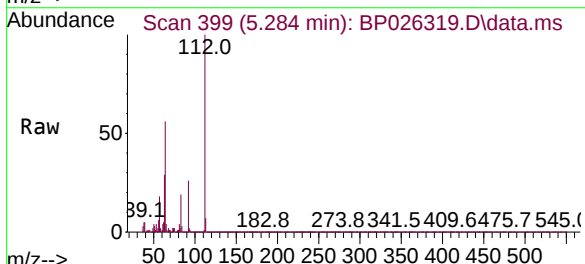
Instrument :
BNA_P
ClientSampleId :
BU-02-12112025

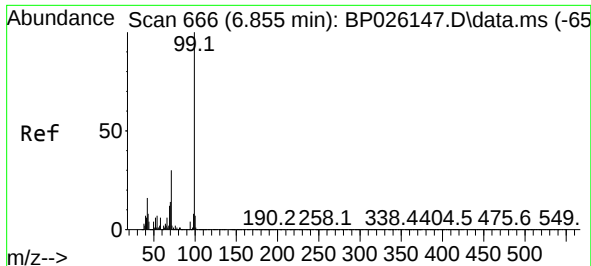
Tgt Ion:152 Resp: 422378
Ion Ratio Lower Upper
152 100
150 154.0 123.0 184.6
115 58.8 46.3 69.5



#5
2-Fluorophenol
Concen: 70.693 ng
RT: 5.284 min Scan# 399
Delta R.T. -0.006 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

Tgt Ion:112 Resp: 1857264
Ion Ratio Lower Upper
112 100
64 55.7 45.8 68.6
63 29.3 23.5 35.3

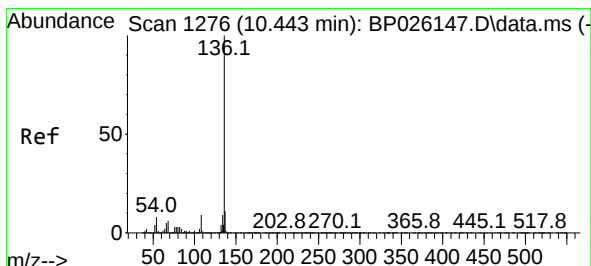
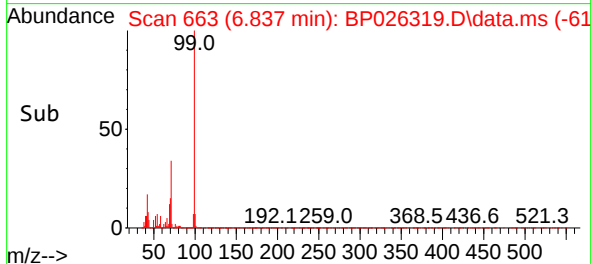
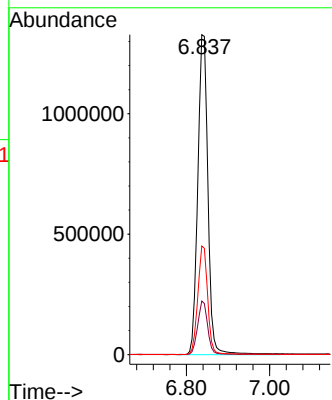
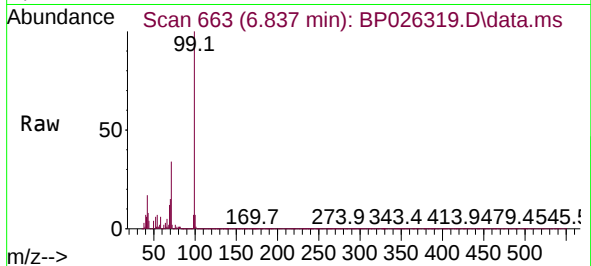




#7
Phenol-d6
Concen: 67.932 ng
RT: 6.837 min Scan# 60
Delta R.T. -0.018 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

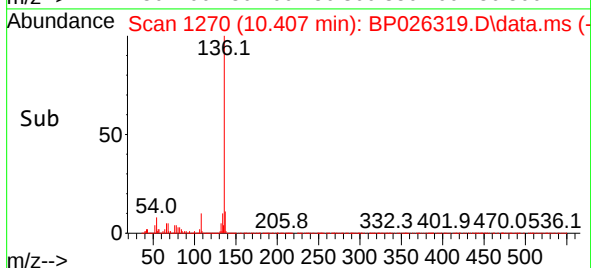
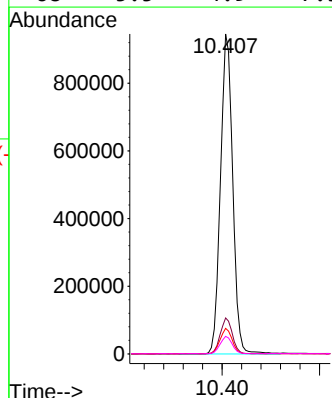
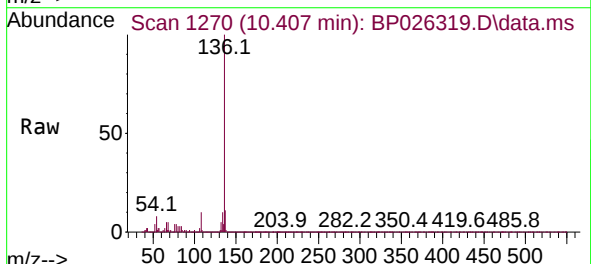
Instrument :
BNA_P
ClientSampleId :
BU-02-12112025

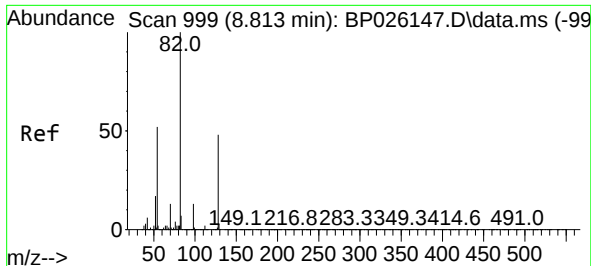
Tgt Ion: 99 Resp: 2252833
Ion Ratio Lower Upper
99 100
42 16.7 12.9 19.3
71 33.9 24.8 37.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.407 min Scan# 1270
Delta R.T. -0.035 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

Tgt Ion: 136 Resp: 1642712
Ion Ratio Lower Upper
136 100
137 11.2 8.7 13.1
54 8.0 6.4 9.6
68 5.5 4.9 7.3



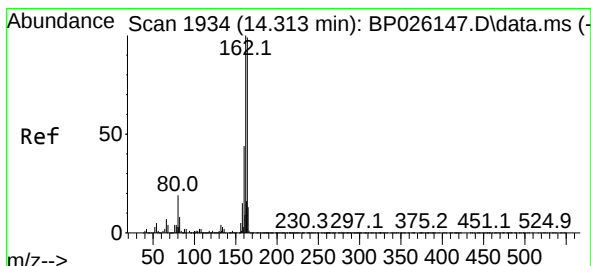
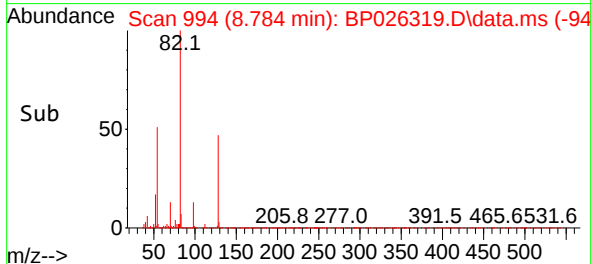
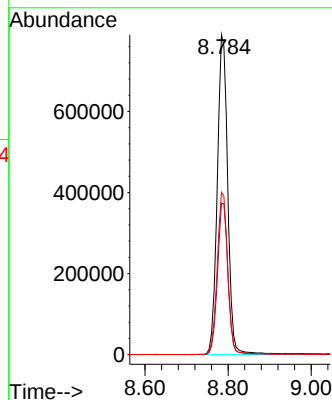
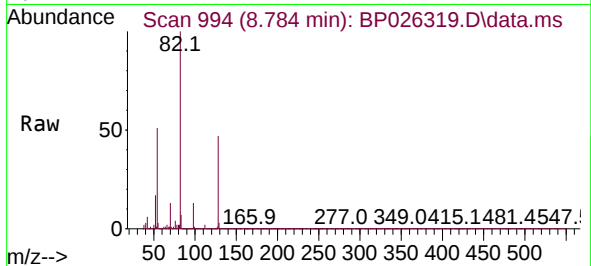


#23
Nitrobenzene-d5
Concen: 47.737 ng
RT: 8.784 min Scan# 999
Delta R.T. -0.030 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

Instrument :
BNA_P
ClientSampleId :
BU-02-12112025

Tgt Ion: 82 Resp: 1377668

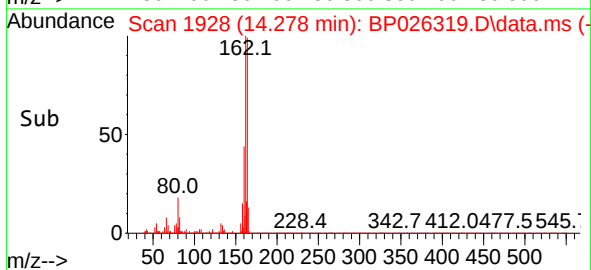
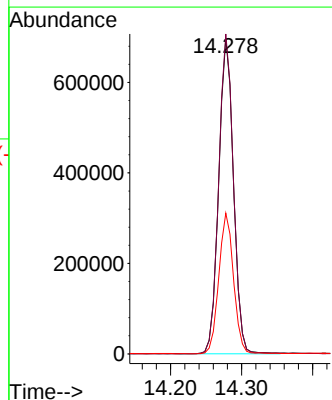
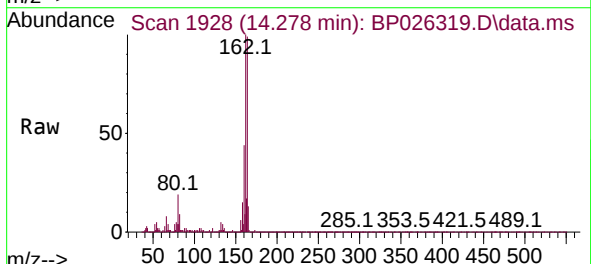
Ion	Ratio	Lower	Upper
82	100		
128	47.4	37.4	56.0
54	50.7	41.6	62.4

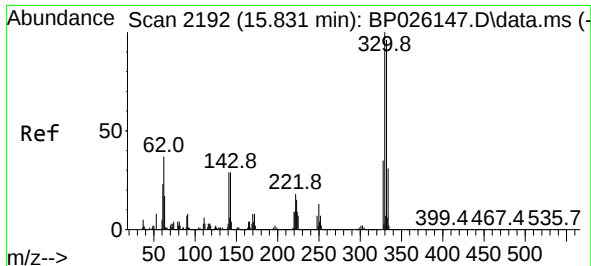


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.278 min Scan# 1928
Delta R.T. -0.035 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

Tgt Ion: 164 Resp: 1008230

Ion	Ratio	Lower	Upper
164	100		
162	101.4	80.3	120.5
160	44.6	35.2	52.8

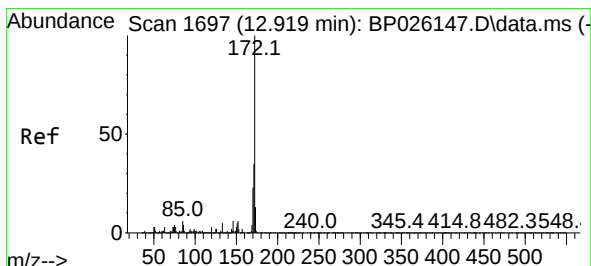
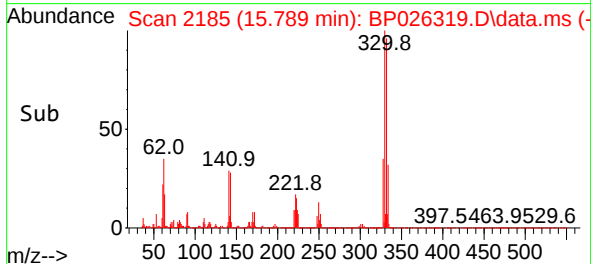
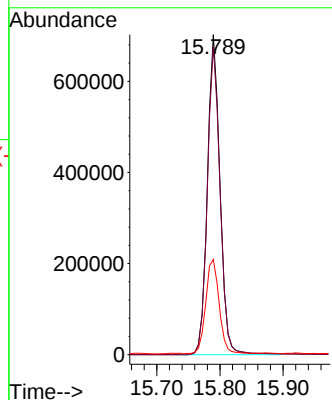
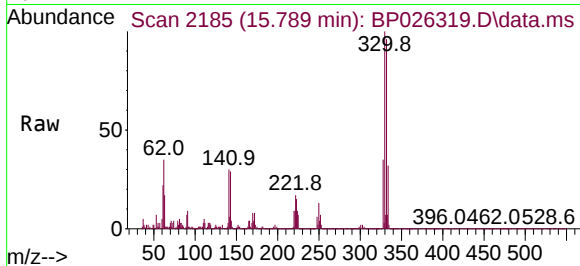




#42
2,4,6-Tribromophenol
Concen: 74.234 ng
RT: 15.789 min Scan# 2192
Delta R.T. -0.041 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

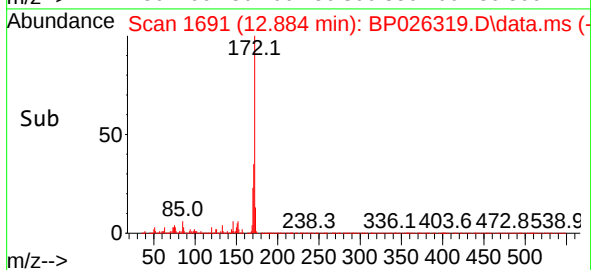
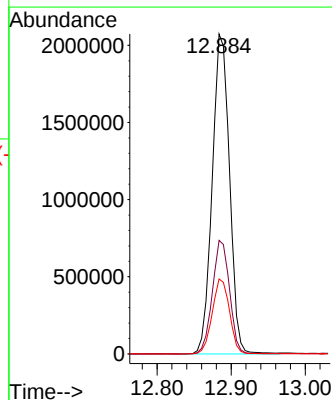
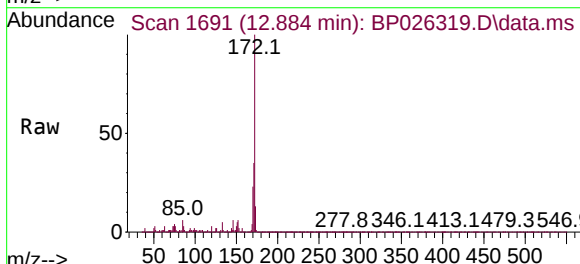
Instrument :
BNA_P
ClientSampleId :
BU-02-12112025

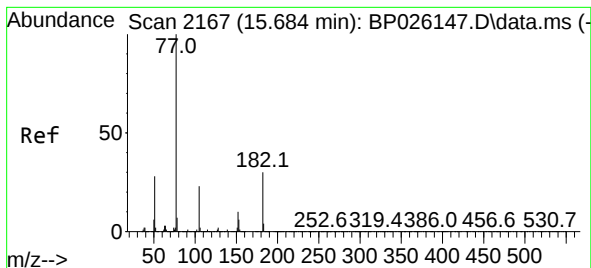
Tgt Ion:	330	Resp:	973331
Ion Ratio	Lower	Upper	
330	100		
332	97.3	78.0	117.0
141	31.3	26.8	40.2



#45
2-Fluorobiphenyl
Concen: 48.459 ng
RT: 12.884 min Scan# 1691
Delta R.T. -0.035 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

Tgt Ion:	172	Resp:	3360526
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.2	42.4
170	23.5	18.7	28.1





#63

Azobenzene

Concen: 3.321 ng

RT: 15.660 min Scan# 21

Delta R.T. -0.024 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025

Tgt Ion: 77 Resp: 210398

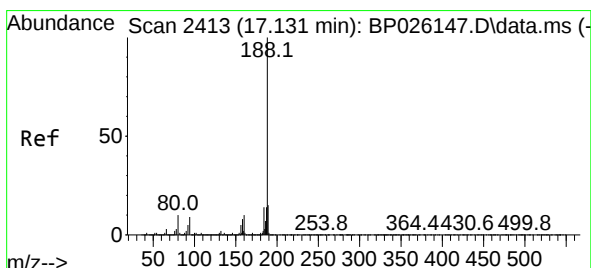
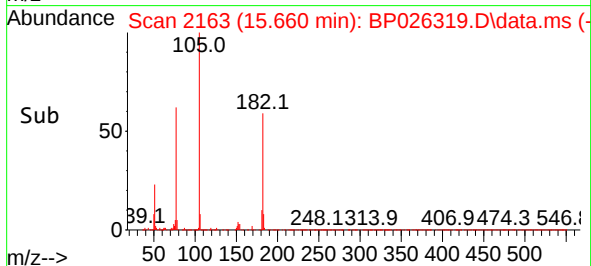
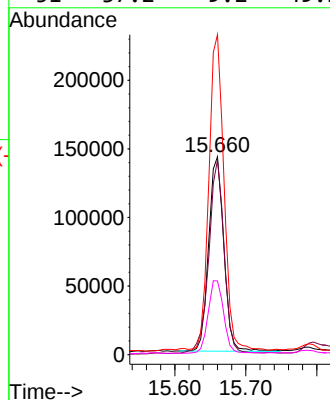
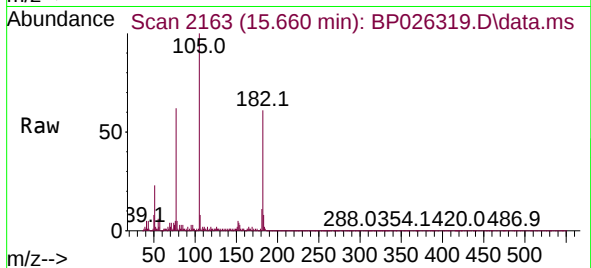
Ion Ratio Lower Upper

77 100

182 98.3 8.8 48.8#

105 161.7 2.6 42.6#

51 37.2 9.2 49.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.078 min Scan# 2404

Delta R.T. -0.053 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

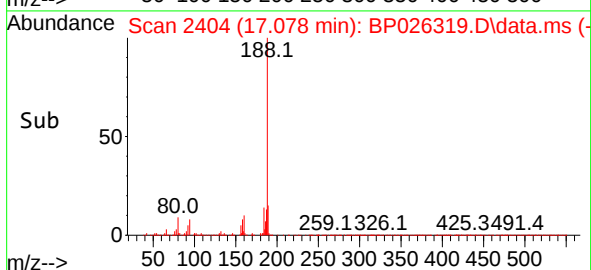
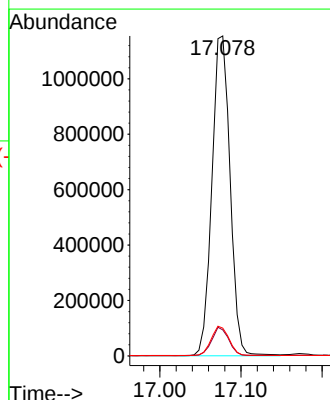
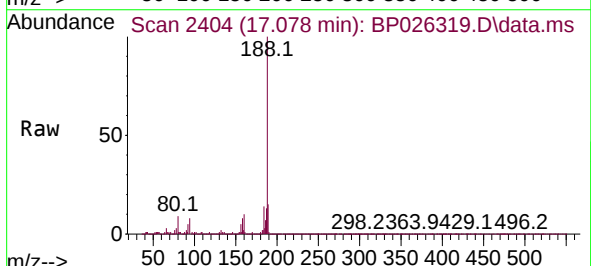
Tgt Ion:188 Resp: 1793274

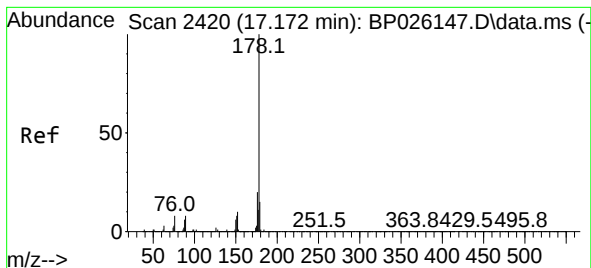
Ion Ratio Lower Upper

188 100

94 8.1 7.8 11.6

80 8.7 8.2 12.2





#71

Phenanthrene

Concen: 6.650 ng

RT: 17.119 min Scan# 24

Delta R.T. -0.053 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025

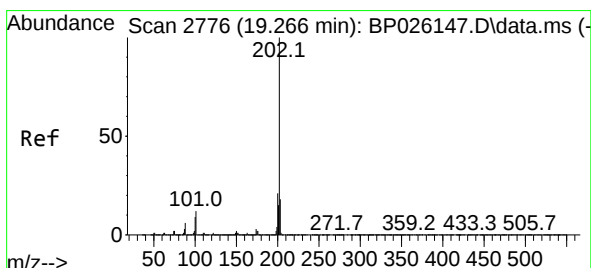
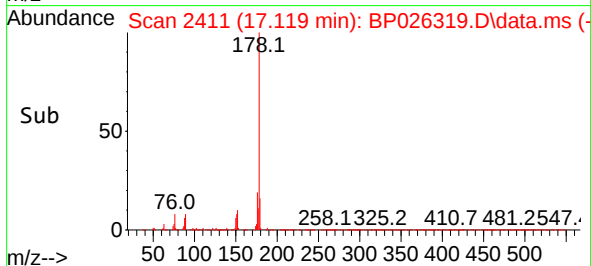
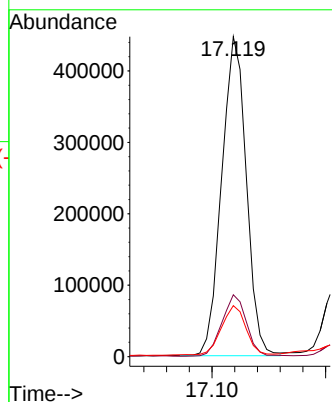
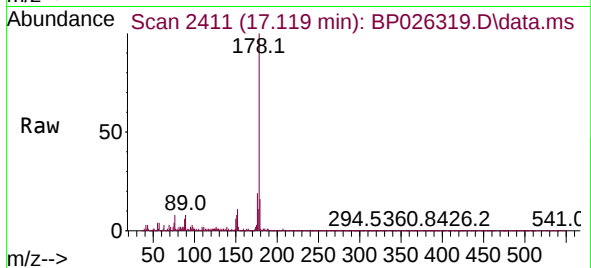
Tgt Ion:178 Resp: 672272

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.9 12.4 18.6



#75

Fluoranthene

Concen: 8.030 ng

RT: 19.213 min Scan# 2767

Delta R.T. -0.053 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

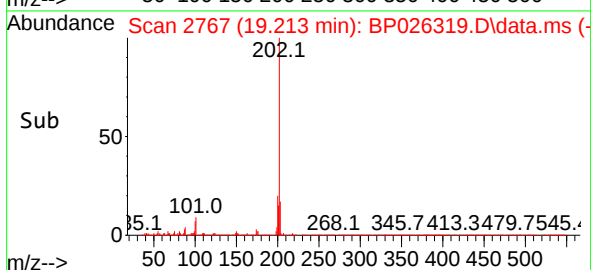
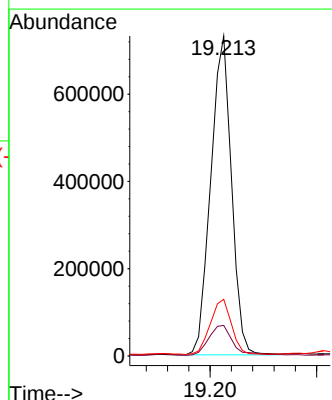
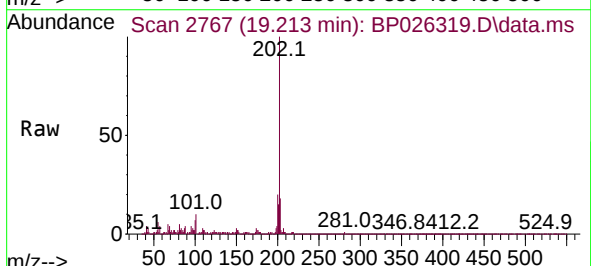
Tgt Ion:202 Resp: 988009

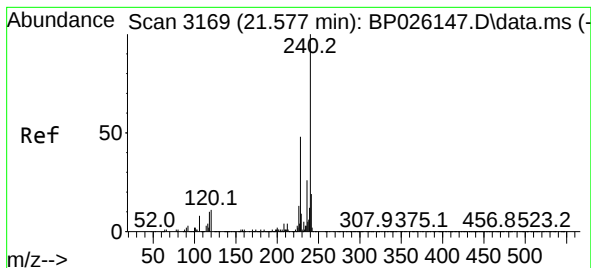
Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.2

203 17.7 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.507 min Scan# 31

Delta R.T. -0.071 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025

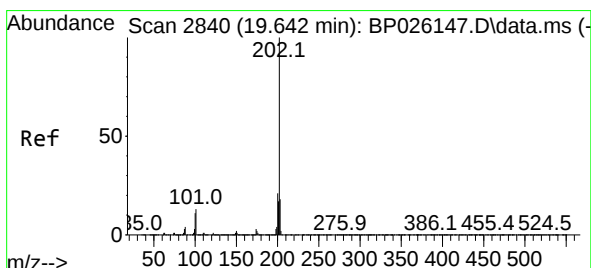
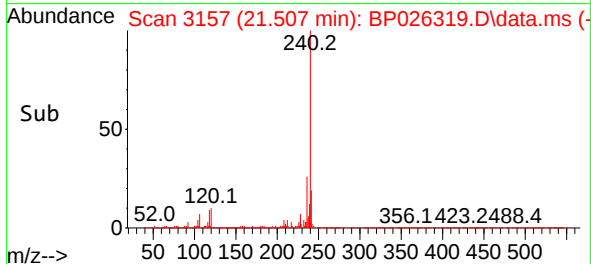
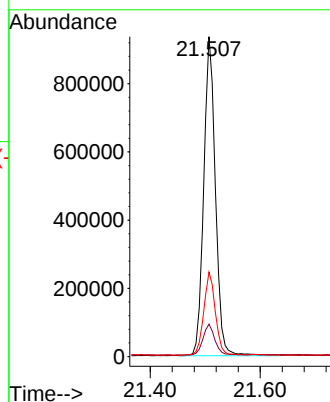
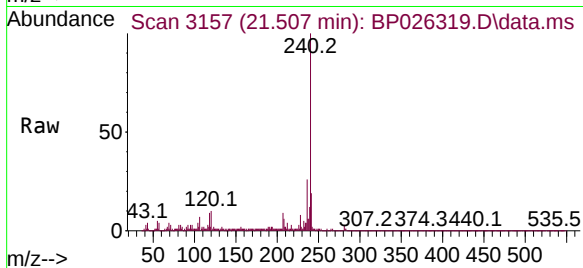
Tgt Ion:240 Resp: 1378390

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

236 26.4 20.4 30.6



#78

Pyrene

Concen: 9.712 ng

RT: 19.583 min Scan# 2830

Delta R.T. -0.059 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

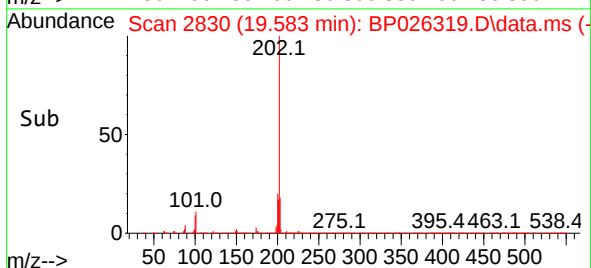
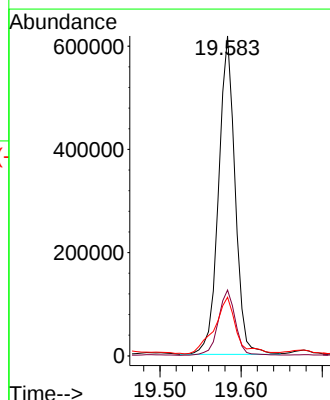
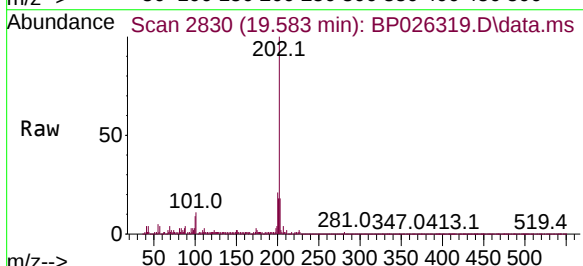
Tgt Ion:202 Resp: 872405

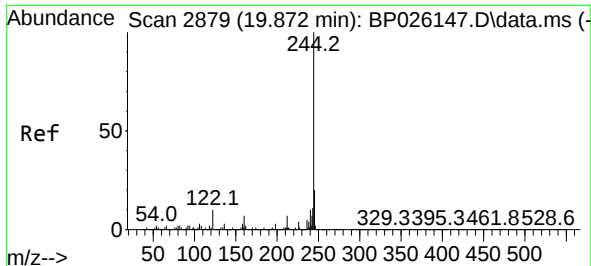
Ion Ratio Lower Upper

202 100

200 20.6 16.9 25.3

203 18.3 13.8 20.8

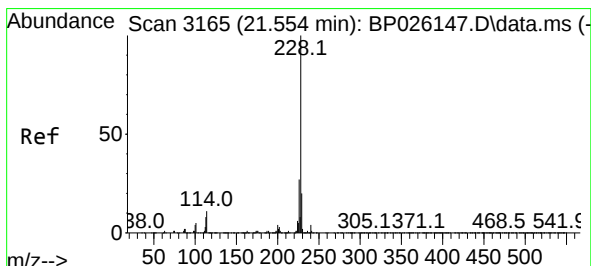
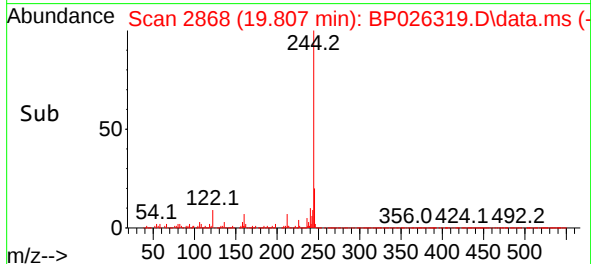
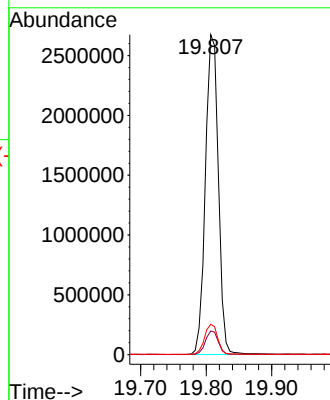
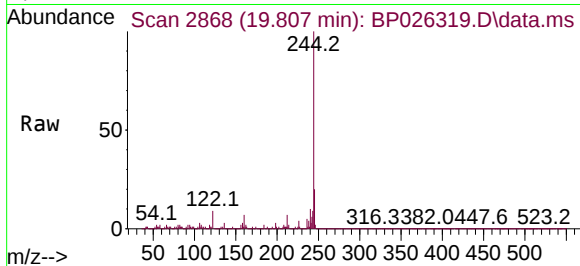




#79
Terphenyl-d14
Concen: 54.226 ng
RT: 19.807 min Scan# 21
Delta R.T. -0.065 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

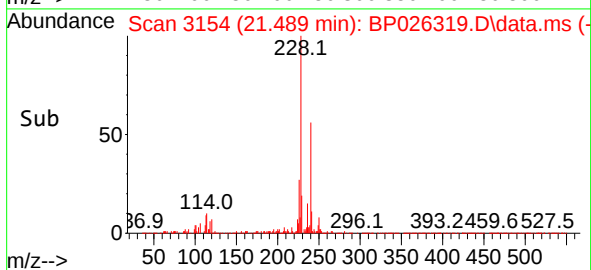
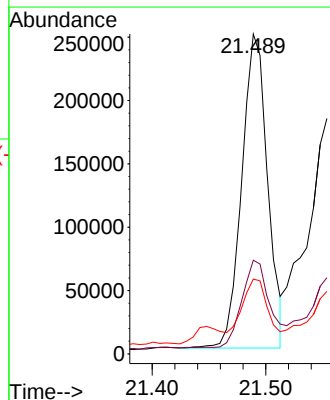
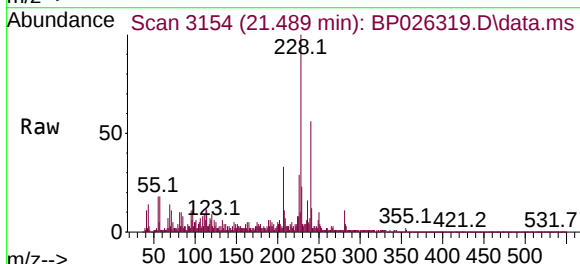
Instrument :
BNA_P
ClientSampleId :
BU-02-12112025

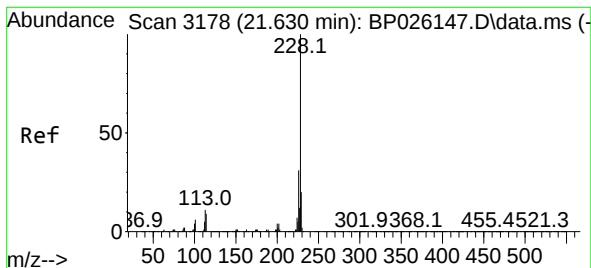
Tgt Ion:244 Resp: 3656902
Ion Ratio Lower Upper
244 100
212 7.4 5.8 8.8
122 9.5 8.2 12.2



#81
Benzo(a)anthracene
Concen: 4.145 ng
RT: 21.489 min Scan# 3154
Delta R.T. -0.065 min
Lab File: BP026319.D
Acq: 12 Dec 2025 21:10

Tgt Ion:228 Resp: 391915
Ion Ratio Lower Upper
228 100
226 29.3 21.8 32.8
229 23.4 15.9 23.9





#83

Chrysene

Concen: 4.378 ng

RT: 21.489 min Scan# 31

Delta R.T. -0.141 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025

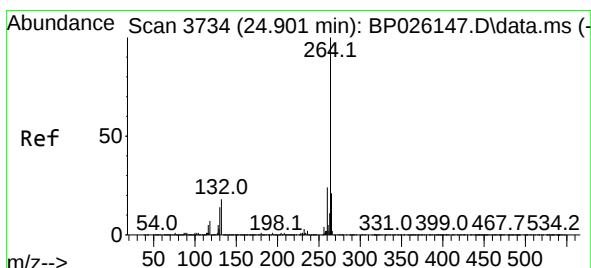
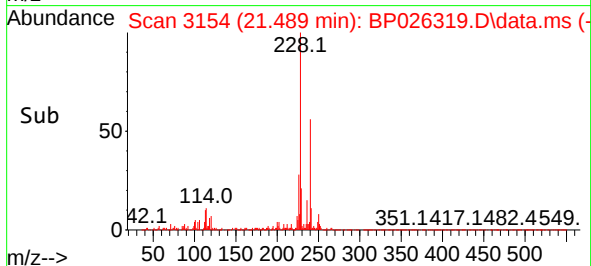
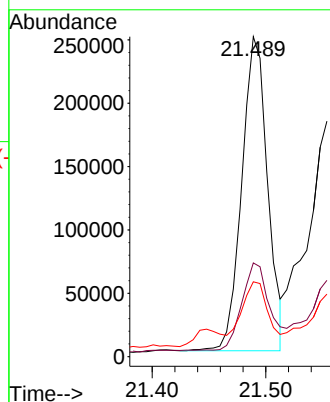
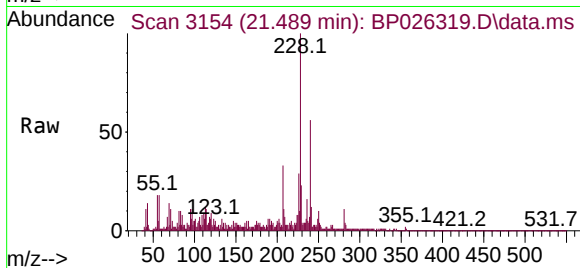
Tgt Ion:228 Resp: 391915

Ion Ratio Lower Upper

228 100

226 29.3 23.9 35.9

229 23.4 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.818 min Scan# 3720

Delta R.T. -0.082 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

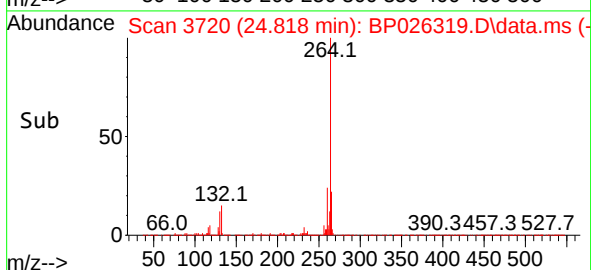
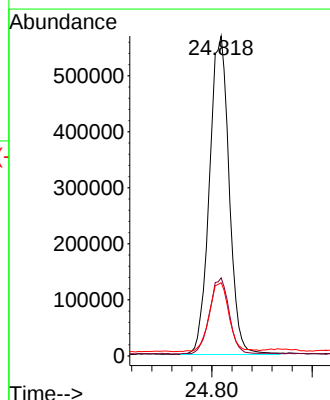
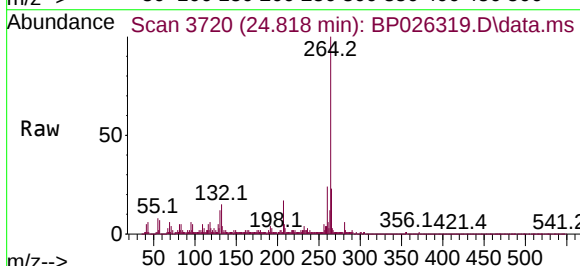
Tgt Ion:264 Resp: 1553759

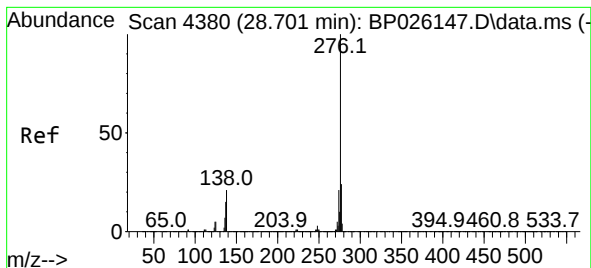
Ion Ratio Lower Upper

264 100

260 24.4 18.7 28.1

265 22.9 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.277 ng

RT: 28.547 min Scan# 4380

Delta R.T. -0.153 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025

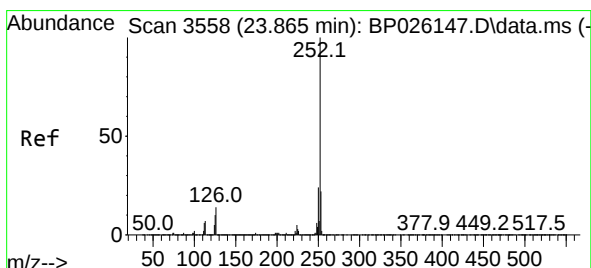
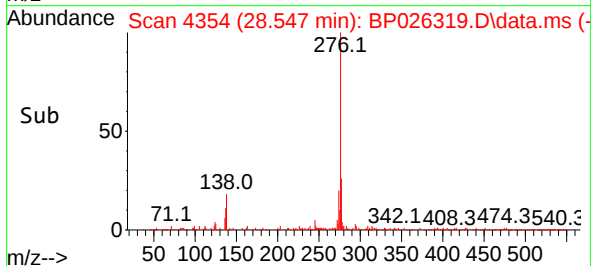
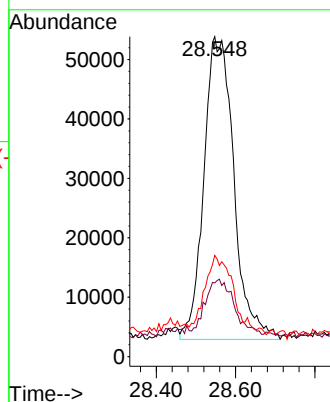
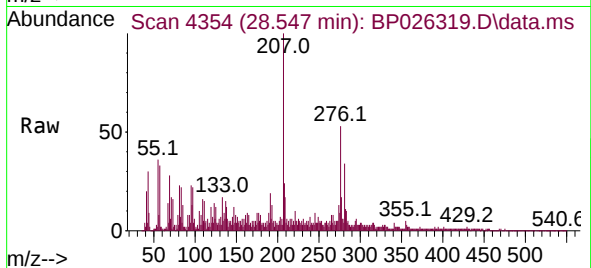
Tgt Ion:276 Resp: 267394

Ion Ratio Lower Upper

276 100

138 18.6 13.8 20.8

277 22.3 16.7 25.1



#88

Benzo(b)fluoranthene

Concen: 5.679 ng

RT: 23.777 min Scan# 3543

Delta R.T. -0.088 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

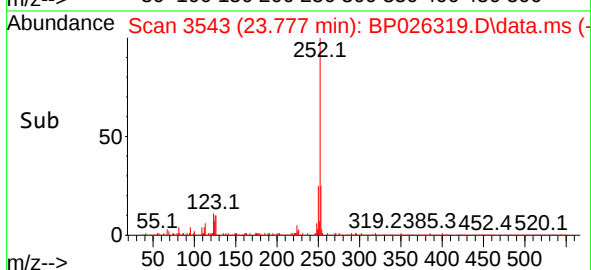
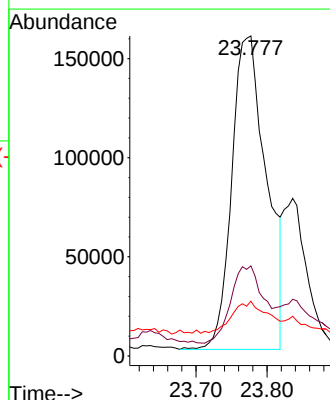
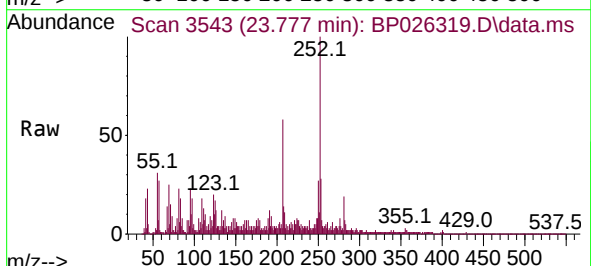
Tgt Ion:252 Resp: 536232

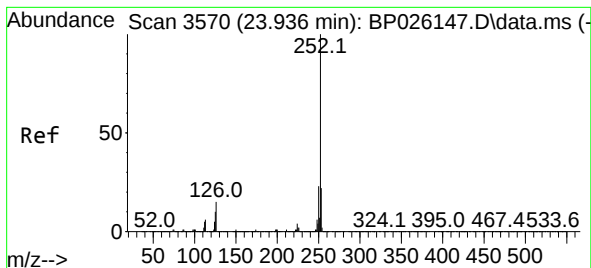
Ion Ratio Lower Upper

252 100

253 28.1 17.6 26.4#

125 17.1 8.2 12.4#





#89

Benzo(k)fluoranthene

Concen: 5.677 ng

RT: 23.777 min Scan# 31

Delta R.T. -0.159 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025

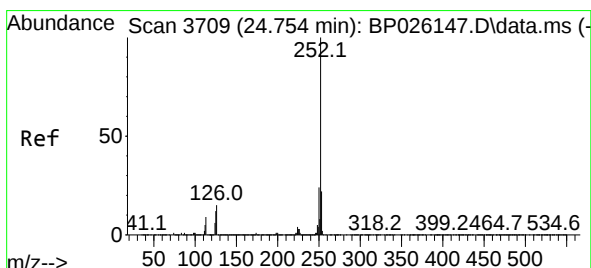
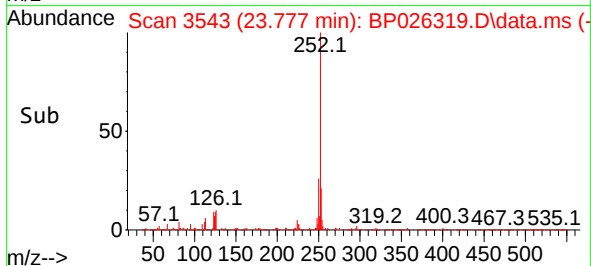
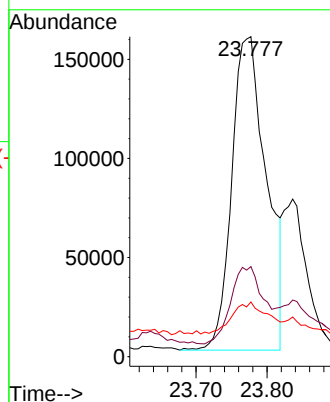
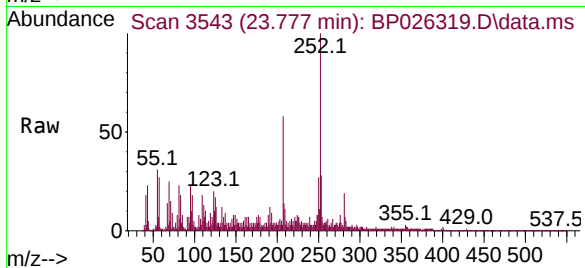
Tgt Ion:252 Resp: 536232

Ion Ratio Lower Upper

252 100

253 28.1 17.6 26.4#

125 17.1 7.5 11.3#



#90

Benzo(a)pyrene

Concen: 4.021 ng

RT: 24.659 min Scan# 3693

Delta R.T. -0.094 min

Lab File: BP026319.D

Acq: 12 Dec 2025 21:10

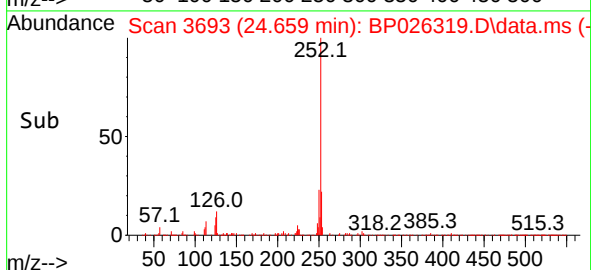
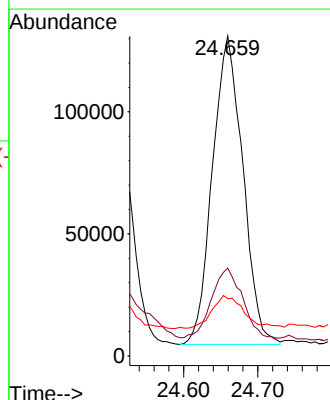
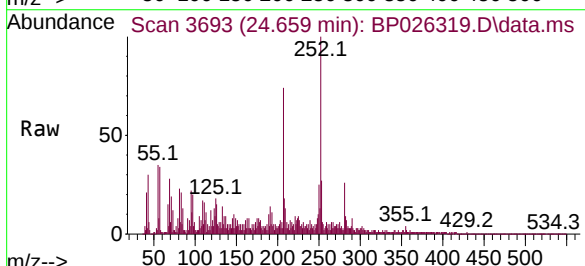
Tgt Ion:252 Resp: 360018

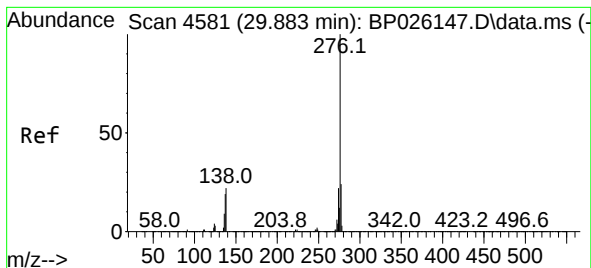
Ion Ratio Lower Upper

252 100

253 27.5 17.4 26.2#

125 17.9 9.0 13.6#





#92

Benzo(g,h,i)perylene

Concen: 2.930 ng

RT: 29.712 min Scan# 4552

Delta R.T. -0.171 min

Lab File: BP026319.D

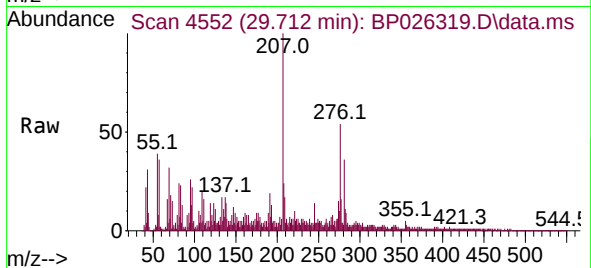
Acq: 12 Dec 2025 21:10

Instrument :

BNA_P

ClientSampleId :

BU-02-12112025



Tgt Ion:276 Resp: 280534

Ion Ratio Lower Upper

276 100

277 30.3 18.8 28.2#

138 25.4 17.8 26.6

