

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122023\
 Data File : BN029144.D
 Acq On : 20 Dec 2023 20:49
 Operator : MA/JU
 Sample : 05366-02RE
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 P-14(10-15)RE

Quant Time: Dec 21 01:10:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 18:03:30 2023
 Response via : Initial Calibration

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

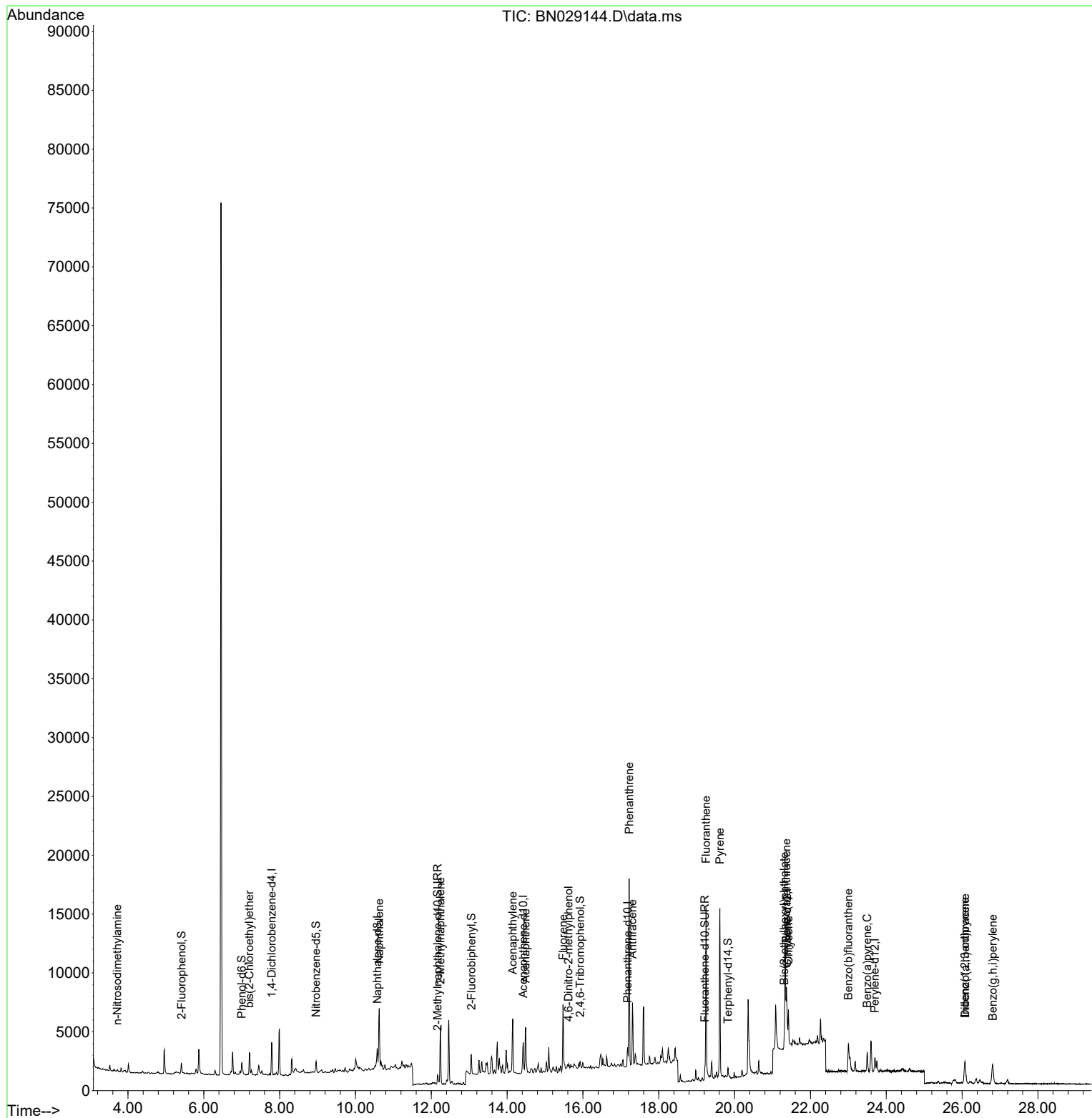
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	1360	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	2439	0.400	ng	-0.01
13) Acenaphthene-d10	14.425	164	1298	0.400	ng	0.00
19) Phenanthrene-d10	17.181	188	2355	0.400	ng	# 0.00
29) Chrysene-d12	21.384	240	1421	0.400	ng	0.00
35) Perylene-d12	23.701	264	1571	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.413	112	738	0.227	ng	0.00
5) Phenol-d6	7.002	99	853	0.238	ng	0.00
8) Nitrobenzene-d5	8.961	82	697	0.219	ng	0.00
11) 2-Methylnaphthalene-d10	12.166	152	1029	0.278	ng	0.00
14) 2,4,6-Tribromophenol	15.927	330	186	0.164	ng	0.00
15) 2-Fluorobiphenyl	13.057	172	1628	0.215	ng	0.00
27) Fluoranthene-d10	19.215	212	1330	0.233	ng	0.00
31) Terphenyl-d14	19.824	244	708	0.181	ng	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.716	42	23	0.026	ng	# 1
6) bis(2-Chloroethyl)ether	7.204	93	2674	0.962	ng	# 29
9) Naphthalene	10.626	128	6185	0.778	ng	96
12) 2-Methylnaphthalene	12.242	142	3197	0.615	ng	97
16) Acenaphthylene	14.148	152	3960	0.433	ng	# 95
17) Acenaphthene	14.490	154	1963	0.358	ng	96
18) Fluorene	15.473	166	3774	0.510	ng	99
20) 4,6-Dinitro-2-methylph...	15.617	198	8	0.070	ng	# 1
25) Phenanthrene	17.218	178	15463	1.591	ng	96
26) Anthracene	17.305	178	5733	0.610	ng	97
28) Fluoranthene	19.248	202	12873	1.281	ng	# 95
30) Pyrene	19.610	202	12954	1.157	ng	99
32) Benzo(a)anthracene	21.367	228	3327	0.426	ng	96
33) Chrysene	21.420	228	2429	0.314	ng	98
34) Bis(2-ethylhexyl)phtha...	21.313	149	2114	0.184	ng	# 55
36) Indeno(1,2,3-cd)pyrene	26.075	276	3566	0.352	ng	# 72
37) Benzo(b)fluoranthene	23.002	252	4236	0.530	ng	94
39) Benzo(a)pyrene	23.499	252	2289	0.321	ng	95
40) Dibenzo(a,h)anthracene	26.081	278	357	0.046	ng	# 51
41) Benzo(g,h,i)perylene	26.809	276	3547	0.414	ng	92

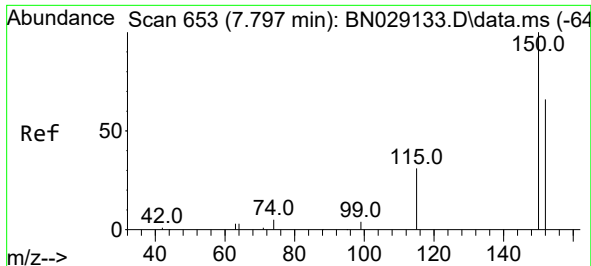
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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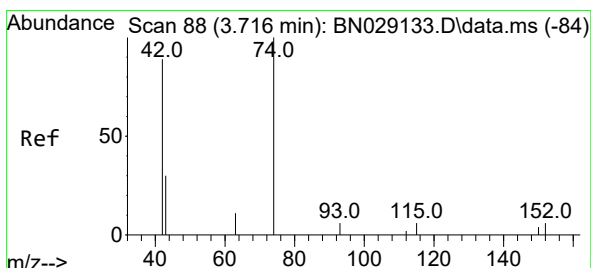
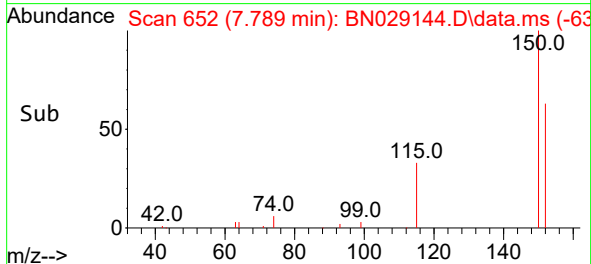
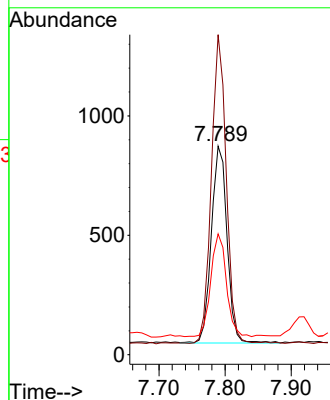
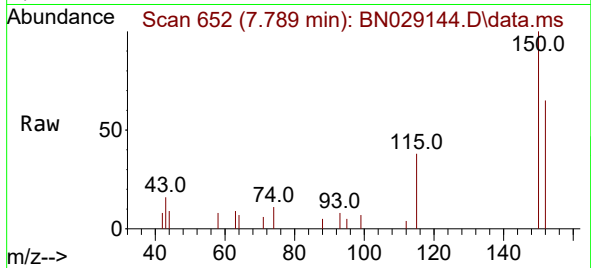




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

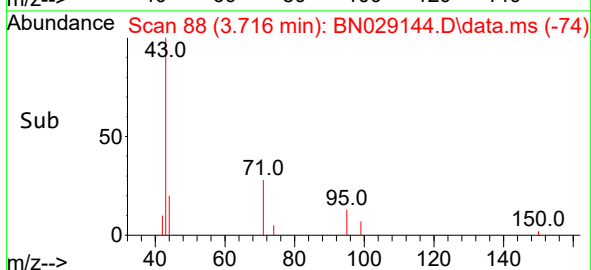
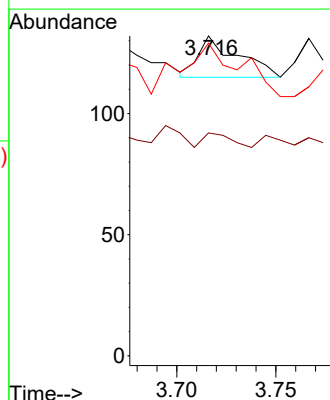
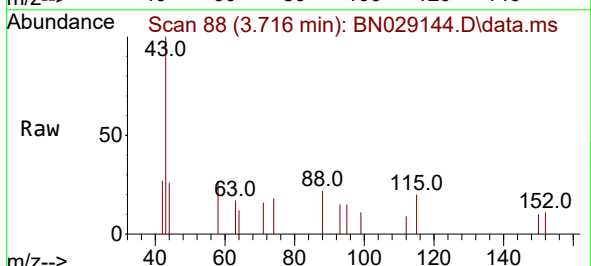
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

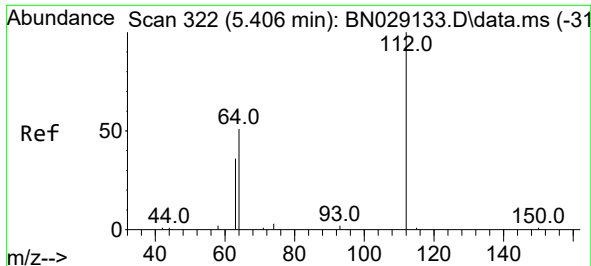
Tgt Ion:152 Resp: 1360
Ion Ratio Lower Upper
152 100
150 153.5 117.6 176.4
115 58.0 44.2 66.2



#3
n-Nitrosodimethylamine
Concen: 0.026 ng
RT: 3.716 min Scan# 88
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion: 42 Resp: 23
Ion Ratio Lower Upper
42 100
74 30.4 103.0 154.4#
44 200.0 3.2 4.8#

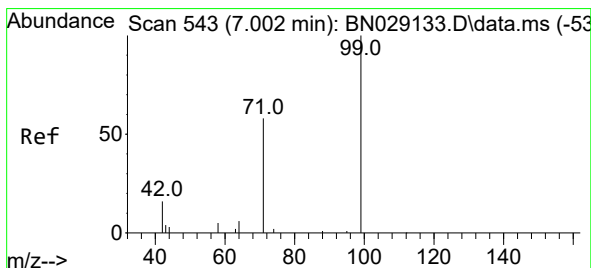
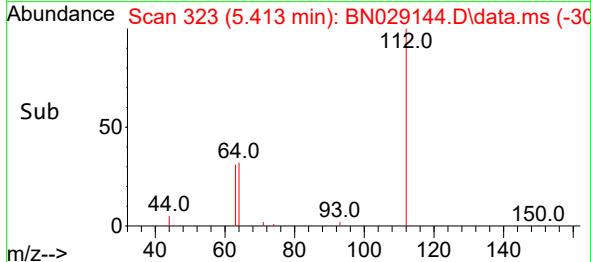
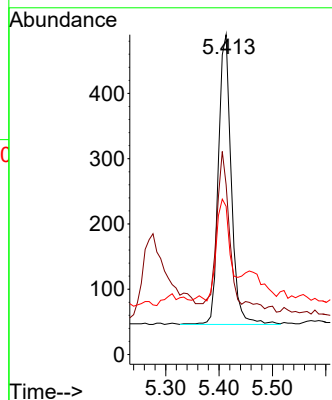
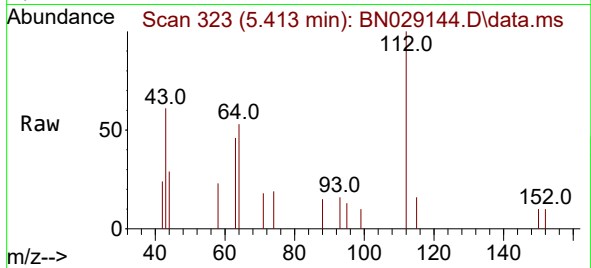




#4
2-Fluorophenol
Concen: 0.227 ng
RT: 5.413 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

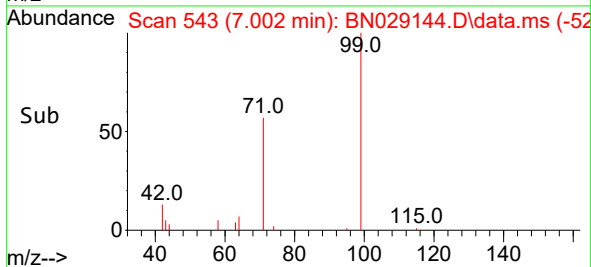
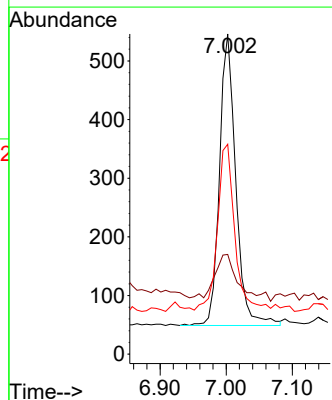
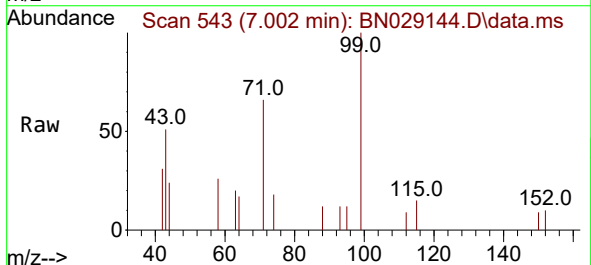
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

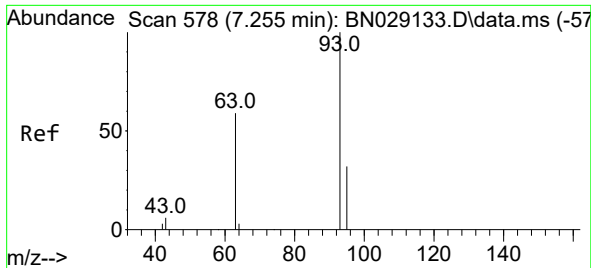
Tgt Ion:112 Resp: 738
Ion Ratio Lower Upper
112 100
64 59.1 38.6 58.0#
63 37.8 30.0 45.0



#5
Phenol-d6
Concen: 0.238 ng
RT: 7.002 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion: 99 Resp: 853
Ion Ratio Lower Upper
99 100
42 24.4 13.8 20.6#
71 60.0 45.4 68.2

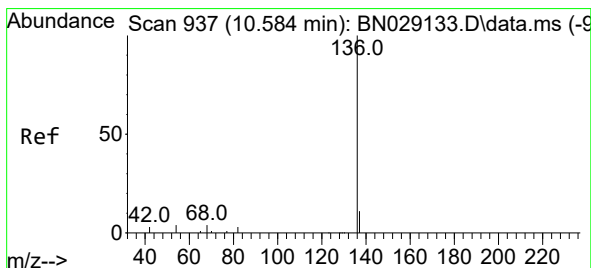
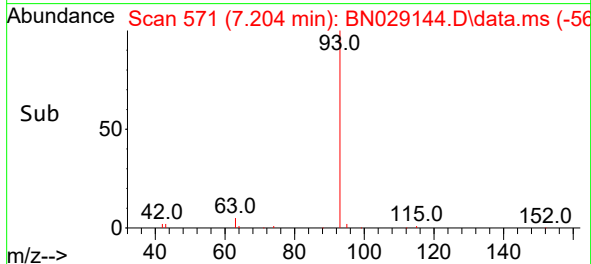
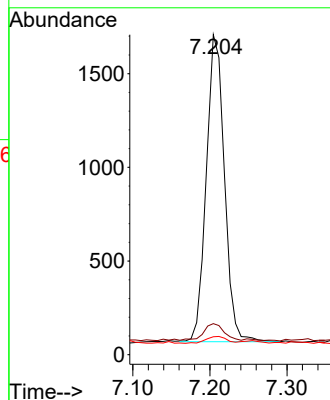
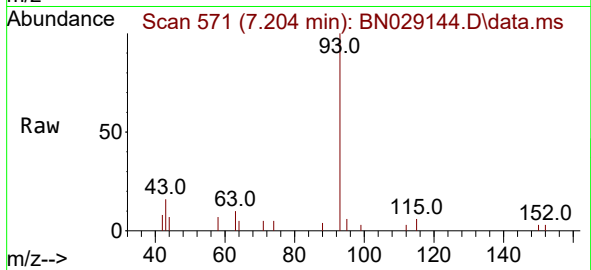




#6
bis(2-Chloroethyl)ether
Concen: 0.962 ng
RT: 7.204 min Scan# 51
Delta R.T. -0.051 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

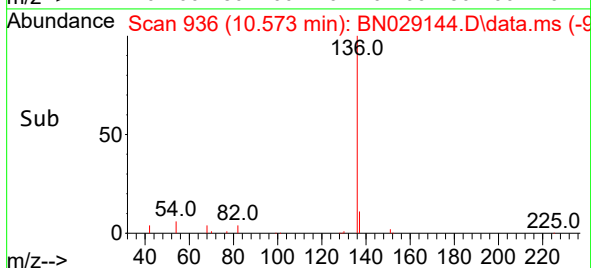
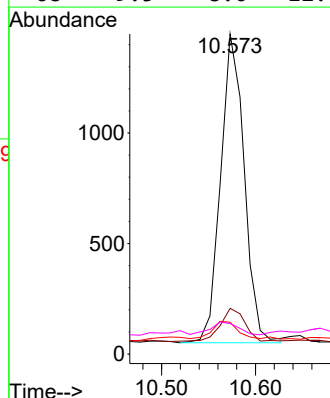
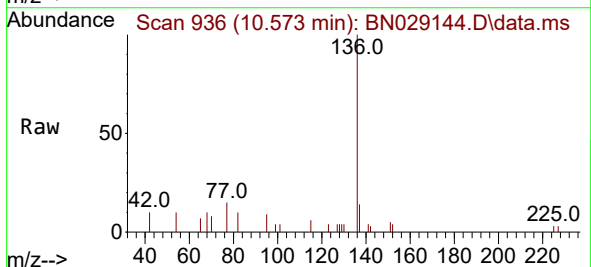
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

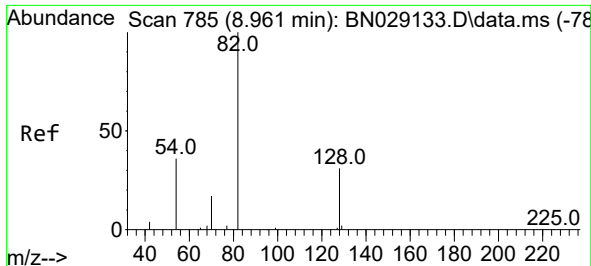
Tgt Ion: 93 Resp: 2674
Ion Ratio Lower Upper
93 100
63 5.9 57.0 85.6#
95 2.5 27.4 41.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion: 136 Resp: 2439
Ion Ratio Lower Upper
136 100
137 14.3 13.4 20.0
54 9.9 8.6 13.0
68 9.5 8.0 12.0

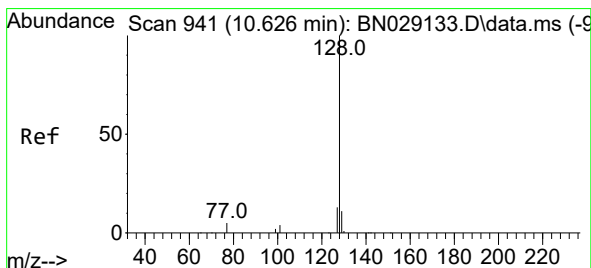
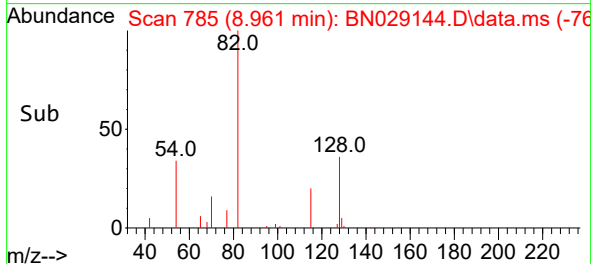
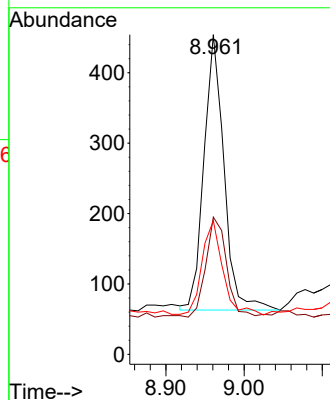
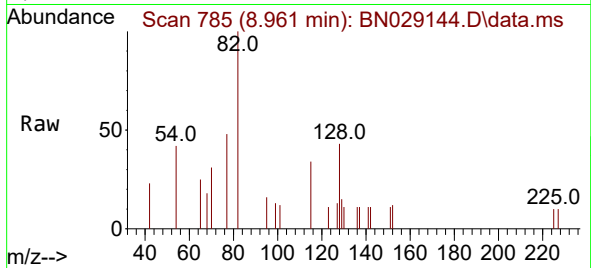




#8
Nitrobenzene-d5
Concen: 0.219 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

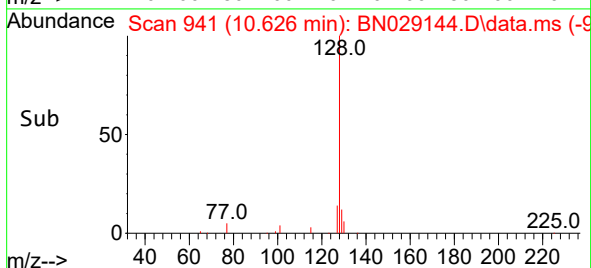
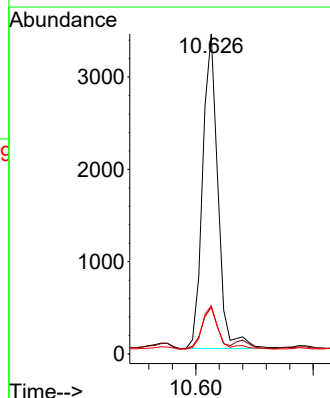
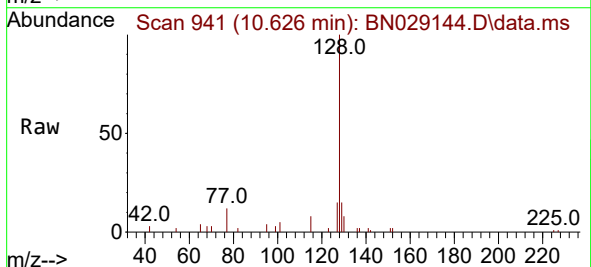
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

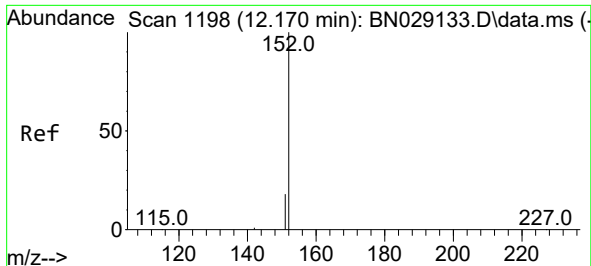
Tgt Ion:	82	Resp:	697
Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.0	49.4
54	41.9	35.8	53.8



#9
Naphthalene
Concen: 0.778 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion:	128	Resp:	6185
Ion	Ratio	Lower	Upper
128	100		
129	14.6	12.0	18.0
127	15.1	14.1	21.1





#11

2-Methylnaphthalene-d10

Concen: 0.278 ng

RT: 12.166 min Scan# 1197

Delta R.T. -0.004 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

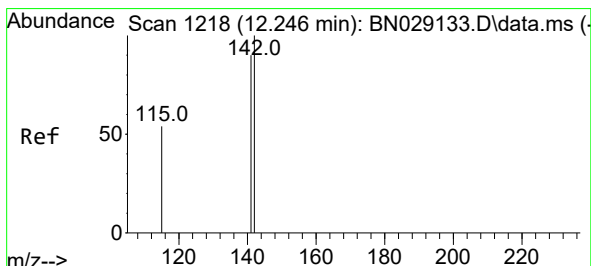
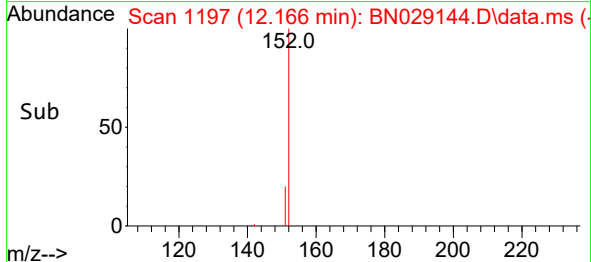
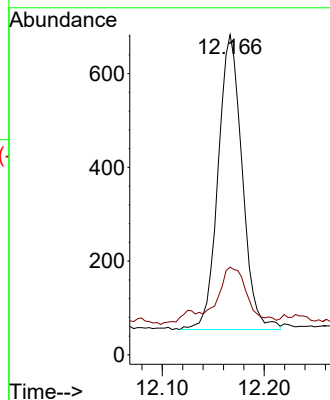
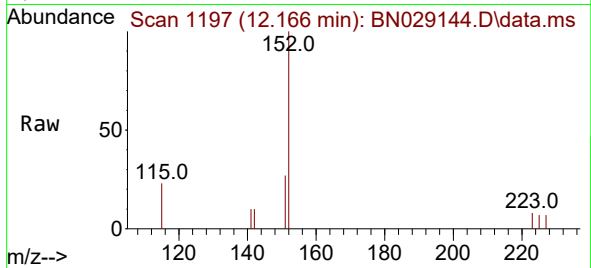
P-14(10-15)RE

Tgt Ion:152 Resp: 1029

Ion Ratio Lower Upper

152 100

151 19.8 17.4 26.2



#12

2-Methylnaphthalene

Concen: 0.615 ng

RT: 12.242 min Scan# 1217

Delta R.T. -0.004 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

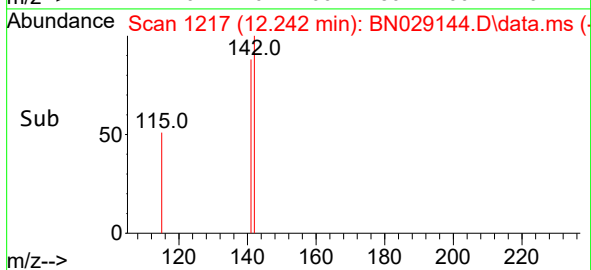
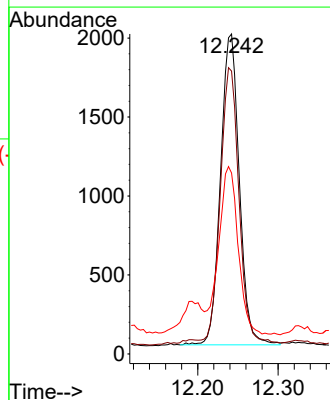
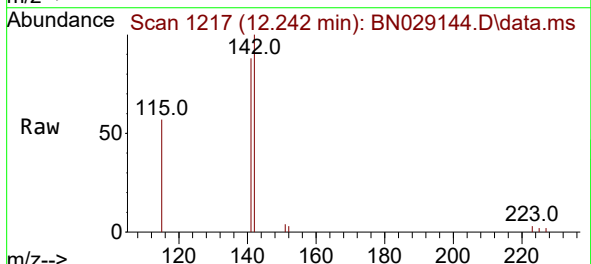
Tgt Ion:142 Resp: 3197

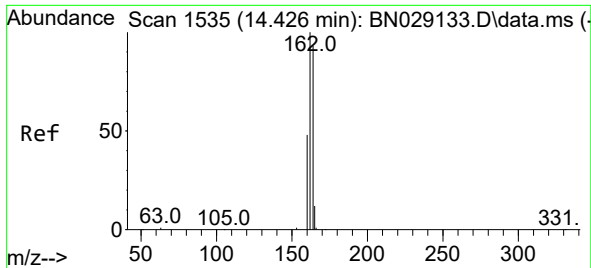
Ion Ratio Lower Upper

142 100

141 88.4 73.0 109.4

115 56.6 46.8 70.2

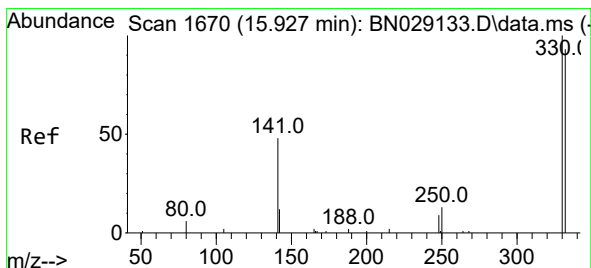
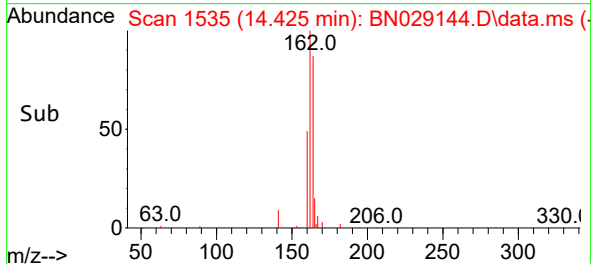
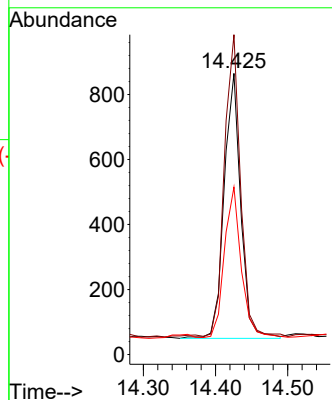
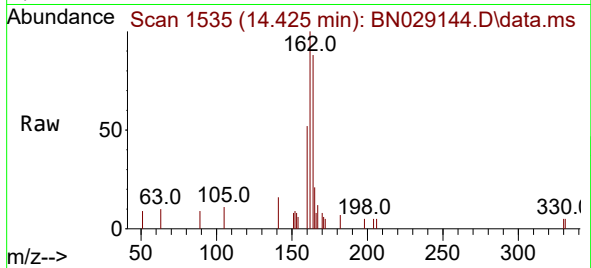




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.425 min Scan# 1535
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

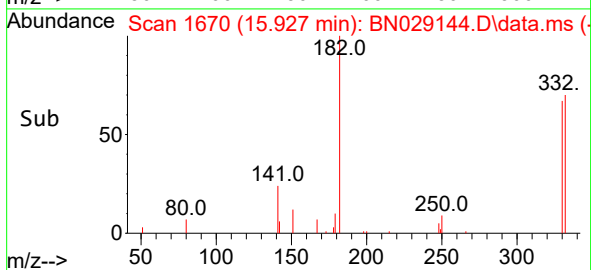
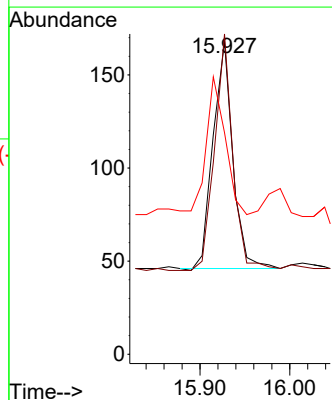
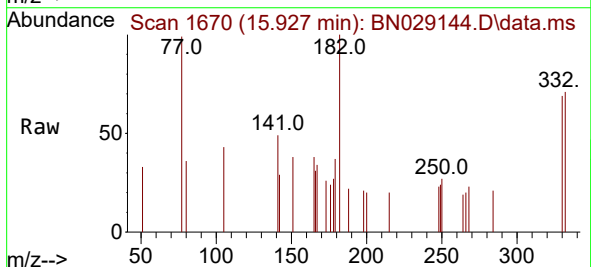
Instrument :
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P-14(10-15)RE

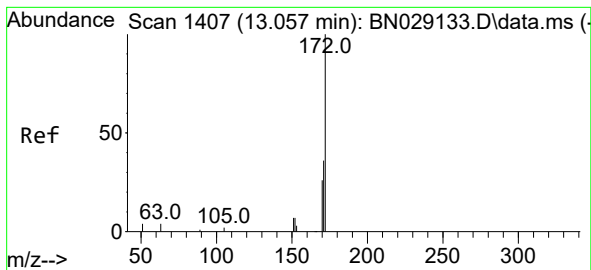
Tgt Ion:164 Resp: 1298
Ion Ratio Lower Upper
164 100
162 113.8 85.0 127.4
160 59.5 45.8 68.8



#14
2,4,6-Tribromophenol
Concen: 0.164 ng
RT: 15.927 min Scan# 1670
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion:330 Resp: 186
Ion Ratio Lower Upper
330 100
332 96.2 83.4 125.0
141 58.1 43.8 65.8

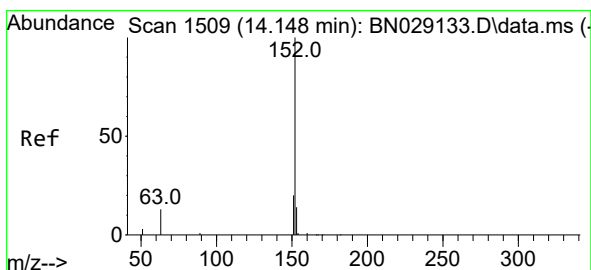
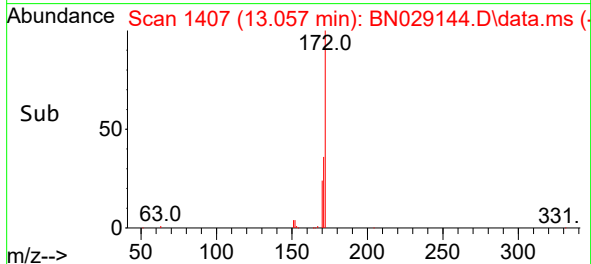
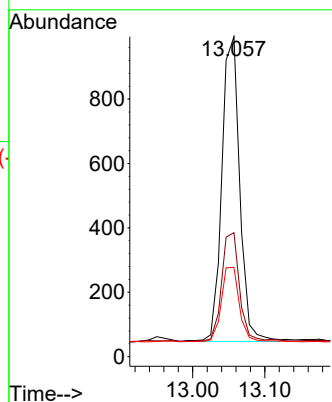
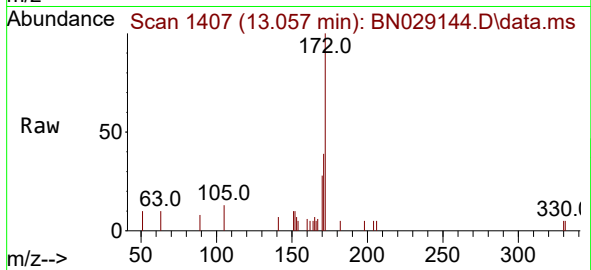




#15
2-Fluorobiphenyl
Concen: 0.215 ng
RT: 13.057 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

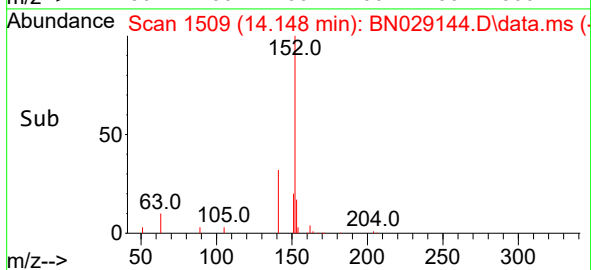
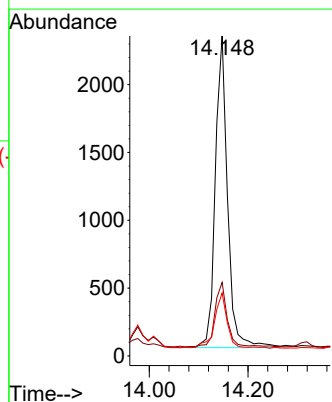
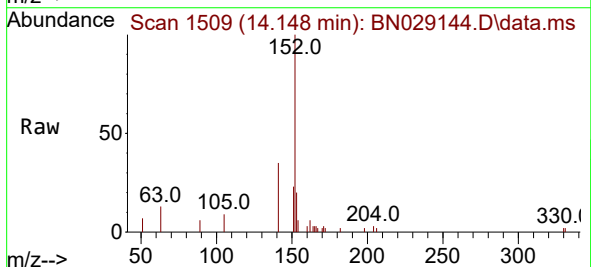
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

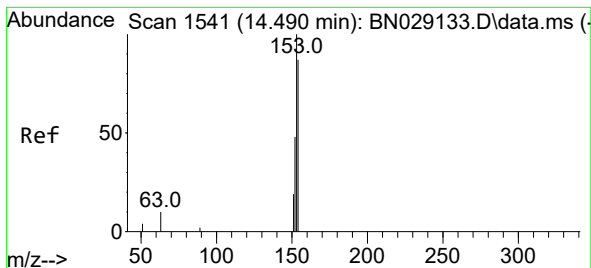
Tgt Ion:	172	Resp:	1628
Ion Ratio	Lower	Upper	
172	100		
171	38.7	32.2	48.4
170	27.9	25.0	37.4



#16
Acenaphthylene
Concen: 0.433 ng
RT: 14.148 min Scan# 1509
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion:	152	Resp:	3960
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	17.5	10.1	15.1





#17

Acenaphthene

Concen: 0.358 ng

RT: 14.490 min Scan# 1541

Delta R.T. -0.000 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

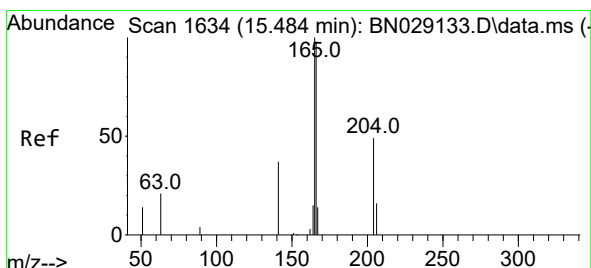
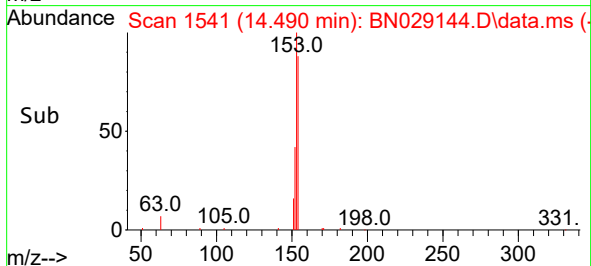
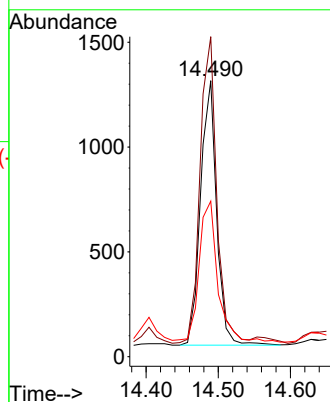
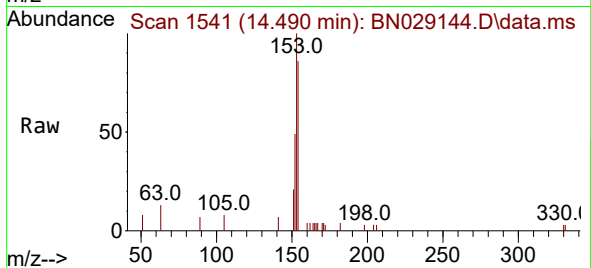
Tgt Ion:154 Resp: 1963

Ion Ratio Lower Upper

154 100

153 119.6 99.9 149.9

152 61.9 47.4 71.2



#18

Fluorene

Concen: 0.510 ng

RT: 15.473 min Scan# 1633

Delta R.T. -0.011 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

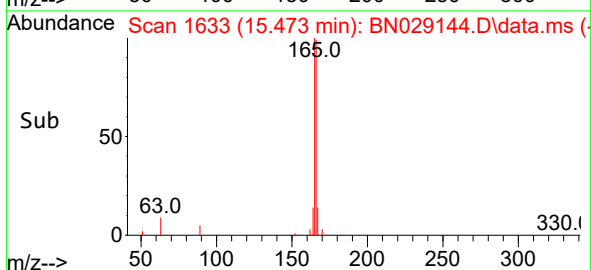
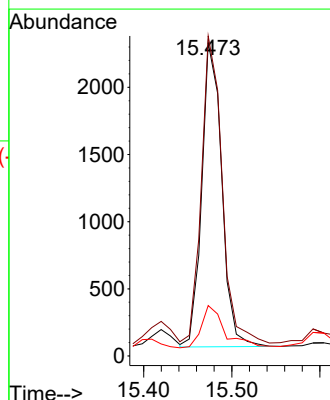
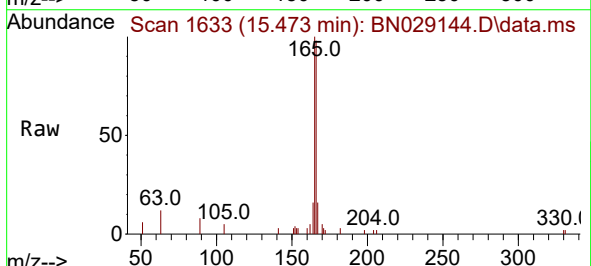
Tgt Ion:166 Resp: 3774

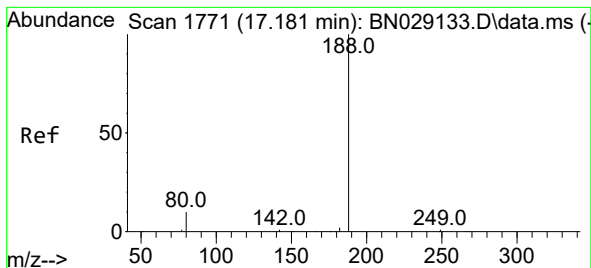
Ion Ratio Lower Upper

166 100

165 104.3 83.4 125.0

167 16.3 11.8 17.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.181 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

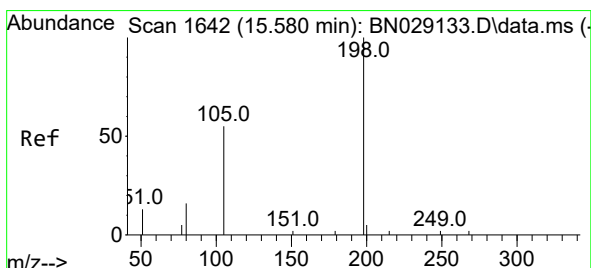
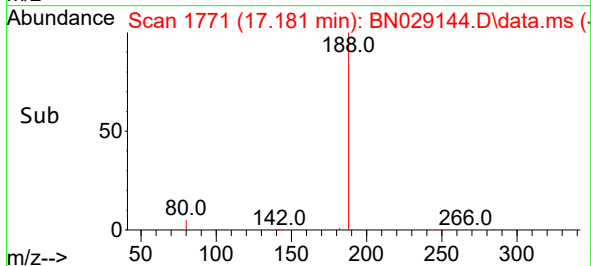
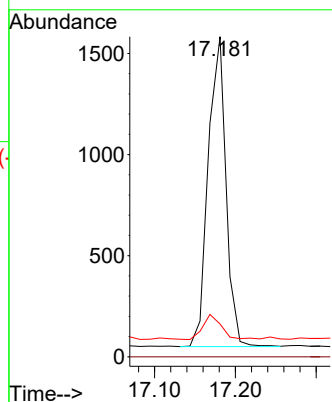
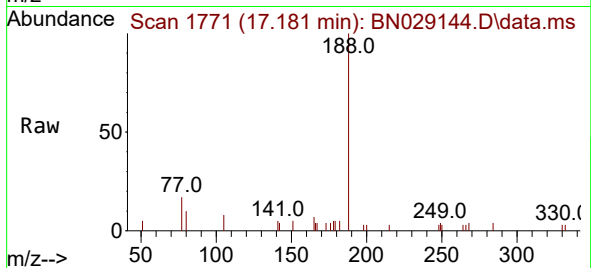
Tgt Ion:188 Resp: 2355

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 13.7 20.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.070 ng

RT: 15.617 min Scan# 1645

Delta R.T. 0.037 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

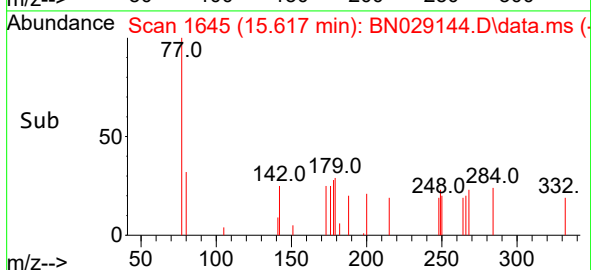
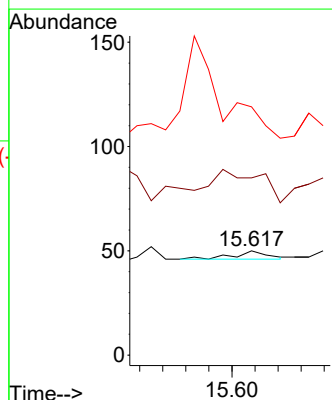
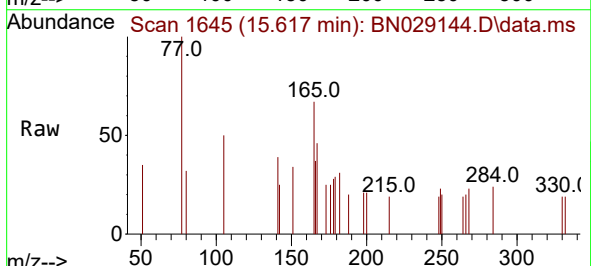
Tgt Ion:198 Resp: 8

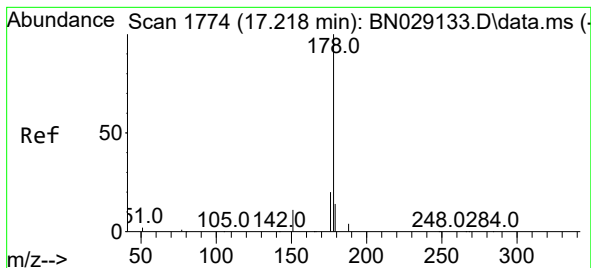
Ion Ratio Lower Upper

198 100

51 170.0 53.6 80.4#

105 238.0 65.6 98.4#





#25

Phenanthrene

Concen: 1.591 ng

RT: 17.218 min Scan# 1774

Delta R.T. -0.000 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

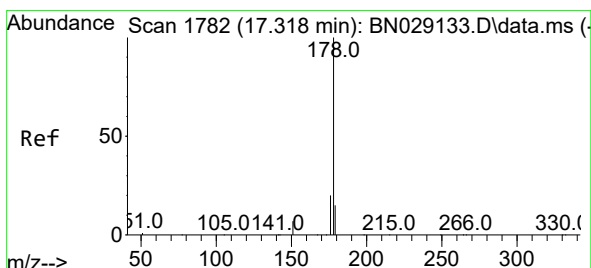
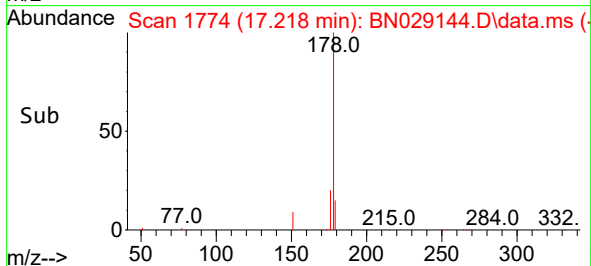
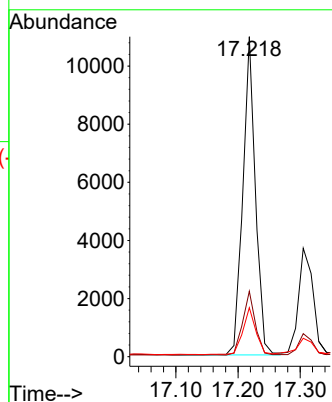
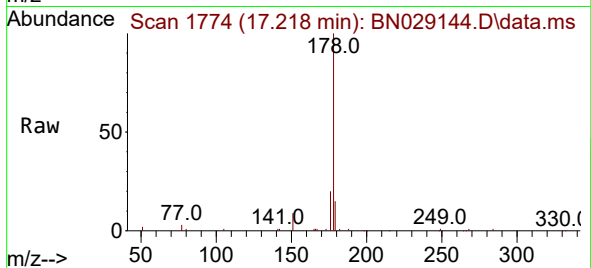
Tgt Ion:178 Resp: 15463

Ion Ratio Lower Upper

178 100

176 20.0 17.4 26.0

179 15.2 13.7 20.5



#26

Anthracene

Concen: 0.610 ng

RT: 17.305 min Scan# 1781

Delta R.T. -0.013 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

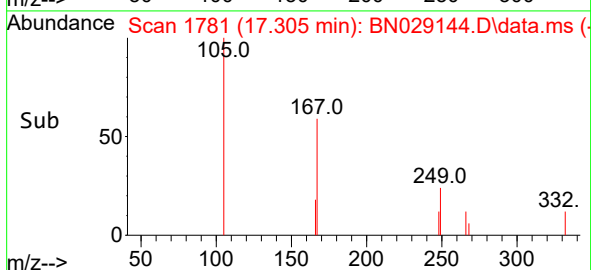
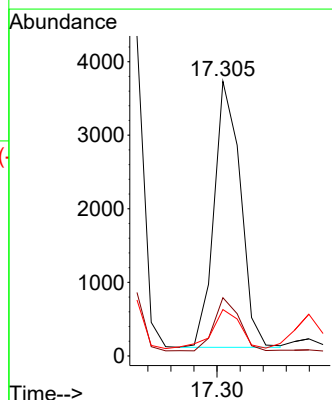
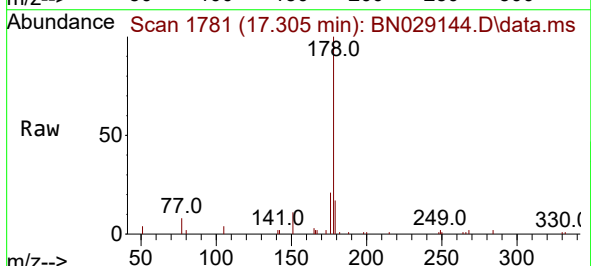
Tgt Ion:178 Resp: 5733

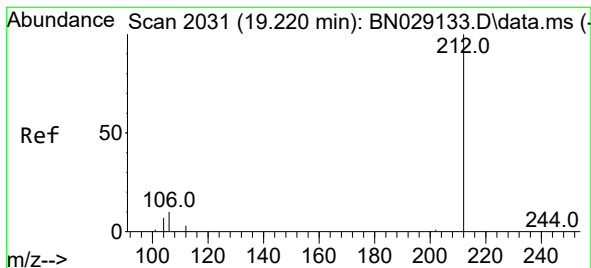
Ion Ratio Lower Upper

178 100

176 19.2 15.8 23.8

179 15.9 11.4 17.0





#27

Fluoranthene-d10

Concen: 0.233 ng

RT: 19.215 min Scan# 2030

Delta R.T. -0.005 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

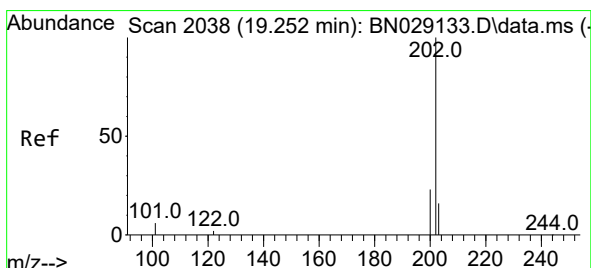
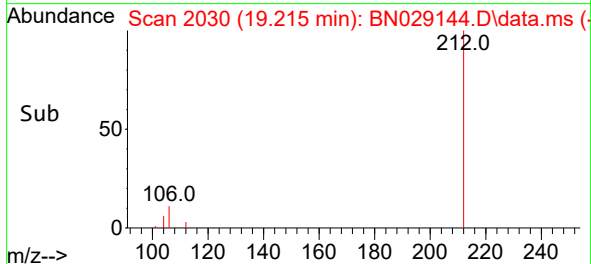
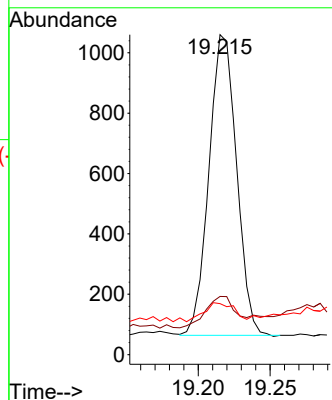
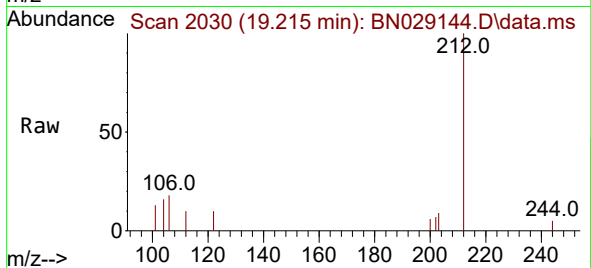
Tgt Ion:212 Resp: 1330

Ion Ratio Lower Upper

212 100

106 11.4 9.6 14.4

104 6.8 6.5 9.7



#28

Fluoranthene

Concen: 1.281 ng

RT: 19.248 min Scan# 2037

Delta R.T. -0.005 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

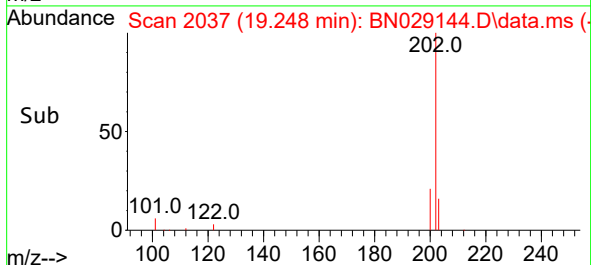
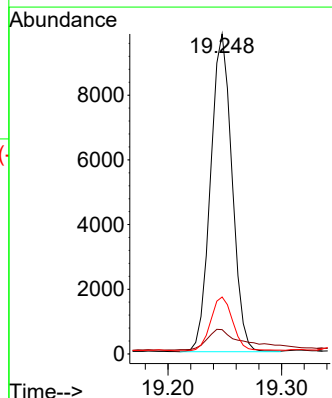
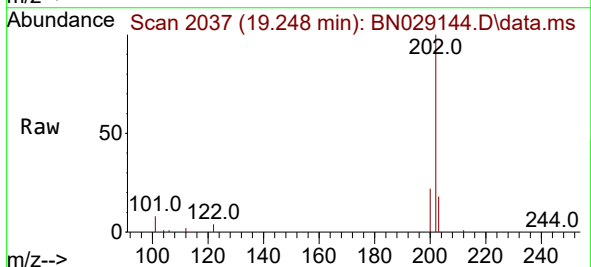
Tgt Ion:202 Resp: 12873

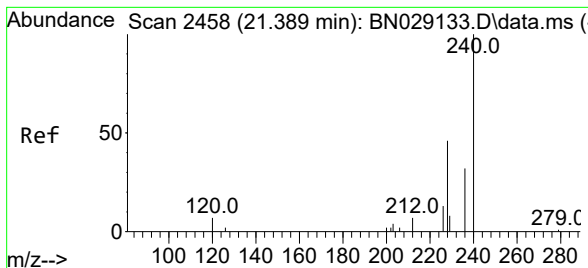
Ion Ratio Lower Upper

202 100

101 12.7 5.3 7.9

203 17.5 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 2458

Delta R.T. -0.004 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

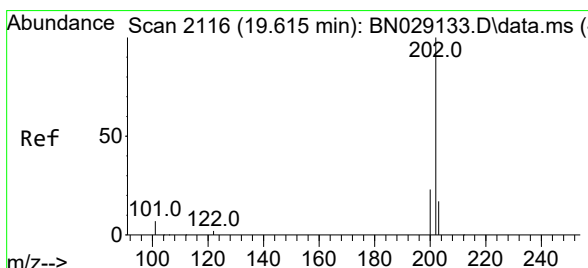
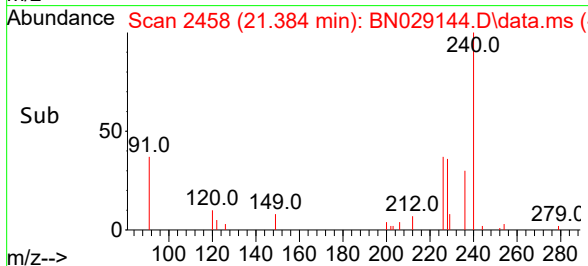
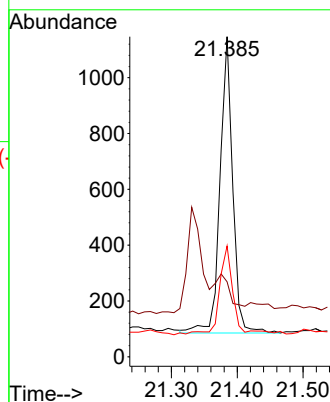
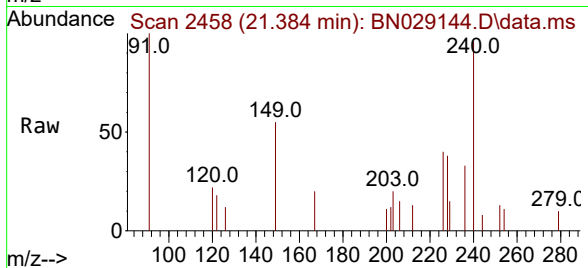
Tgt Ion:240 Resp: 1421

Ion Ratio Lower Upper

240 100

120 23.5 21.4 32.0

236 34.6 33.5 50.3



#30

Pyrene

Concen: 1.157 ng

RT: 19.610 min Scan# 2115

Delta R.T. -0.005 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

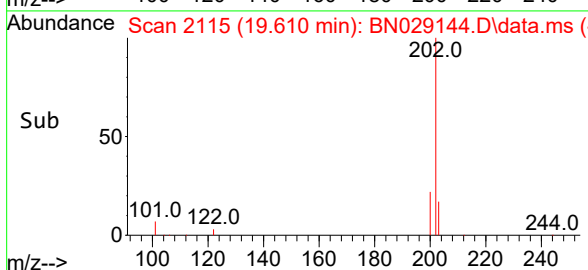
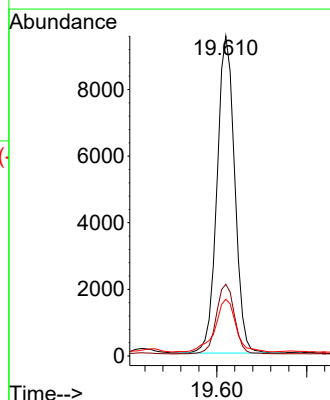
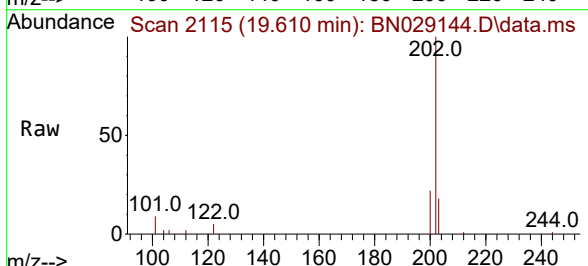
Tgt Ion:202 Resp: 12954

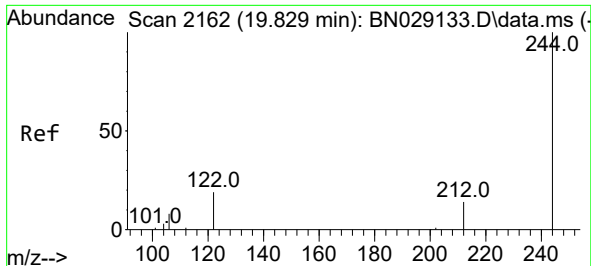
Ion Ratio Lower Upper

202 100

200 22.7 18.0 27.0

203 19.7 15.1 22.7

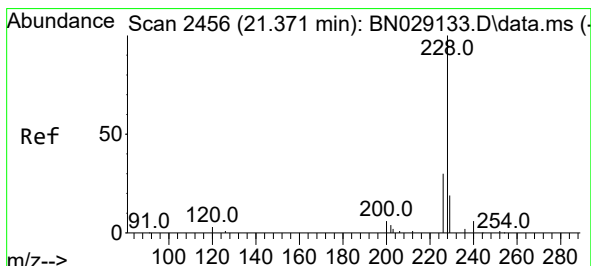
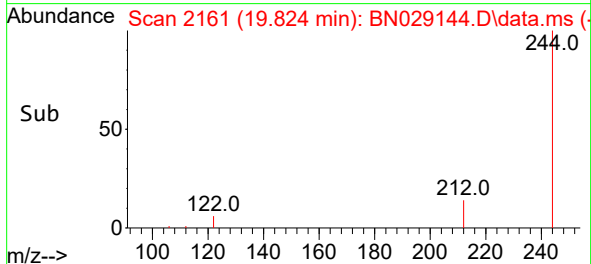
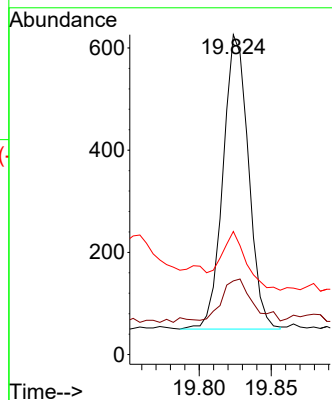
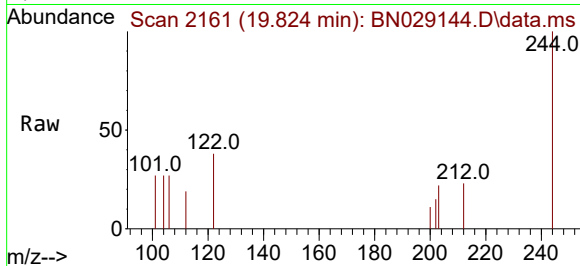




#31
 Terphenyl-d14
 Concen: 0.181 ng
 RT: 19.824 min Scan# 2162
 Delta R.T. -0.005 min
 Lab File: BN029144.D
 Acq: 20 Dec 2023 20:49

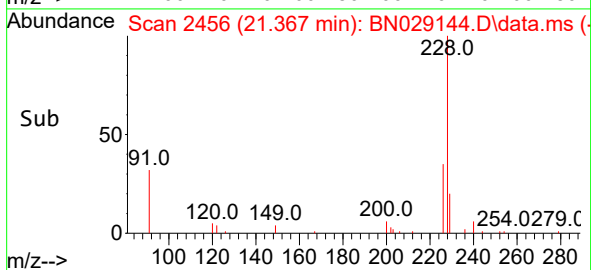
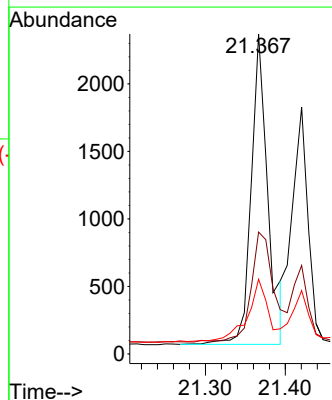
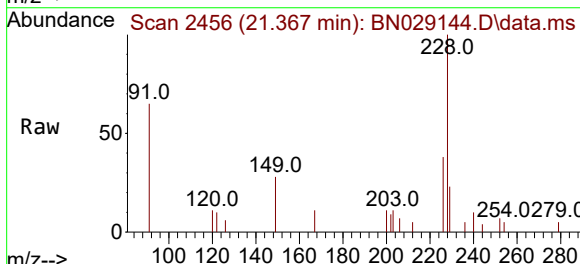
Instrument :
 BNA_N
 ClientSampleId :
 P-14(10-15)RE

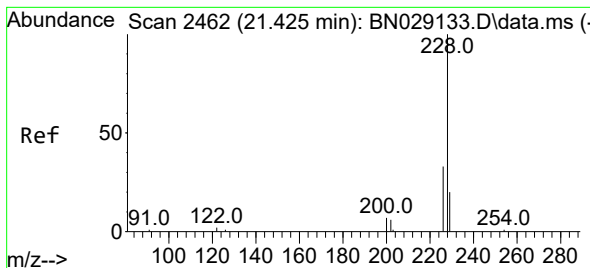
Tgt Ion:244 Resp: 708
 Ion Ratio Lower Upper
 244 100
 212 23.0 19.0 28.6
 122 38.5 22.5 33.7#



#32
 Benzo(a)anthracene
 Concen: 0.426 ng
 RT: 21.367 min Scan# 2456
 Delta R.T. -0.004 min
 Lab File: BN029144.D
 Acq: 20 Dec 2023 20:49

Tgt Ion:228 Resp: 3327
 Ion Ratio Lower Upper
 228 100
 226 38.1 27.6 41.4
 229 23.3 19.4 29.0





#33

Chrysene

Concen: 0.314 ng

RT: 21.420 min Scan# 2462

Delta R.T. -0.004 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

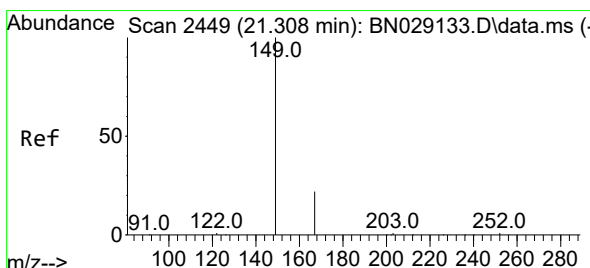
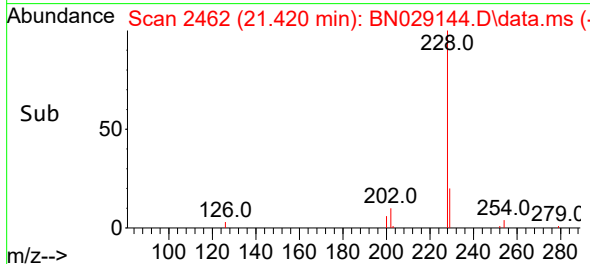
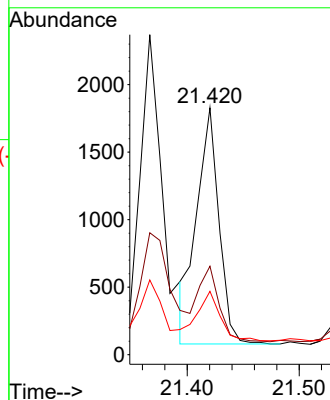
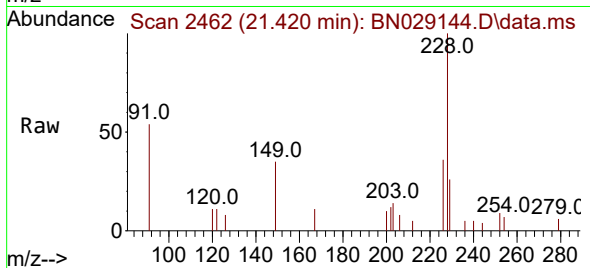
Tgt Ion:228 Resp: 2429

Ion Ratio Lower Upper

228 100

226 35.8 29.2 43.8

229 25.6 19.3 28.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.184 ng

RT: 21.313 min Scan# 2450

Delta R.T. 0.005 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

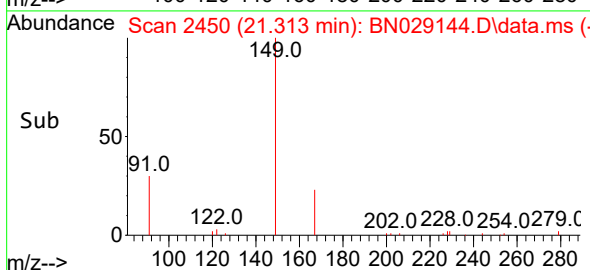
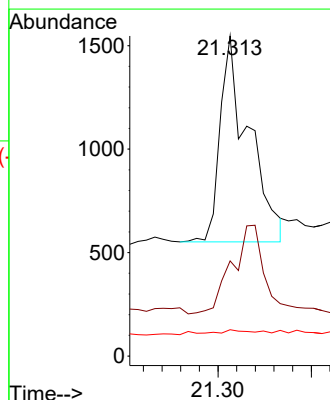
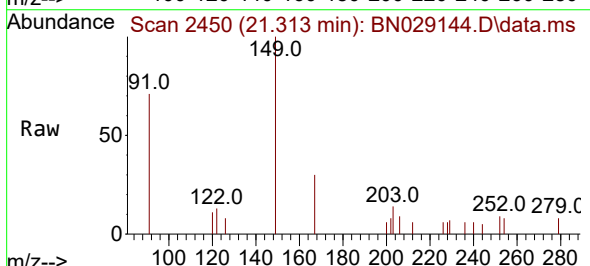
Tgt Ion:149 Resp: 2114

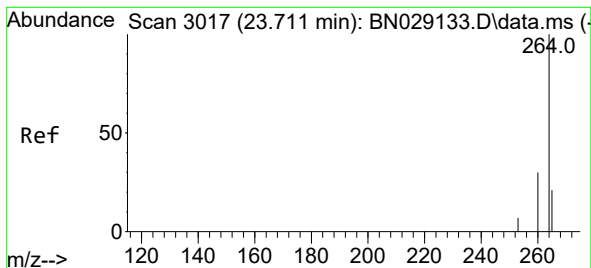
Ion Ratio Lower Upper

149 100

167 0.0 20.2 30.2#

279 1.1 2.5 3.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.701 min Scan# 3017

Delta R.T. -0.010 min

Lab File: BN029144.D

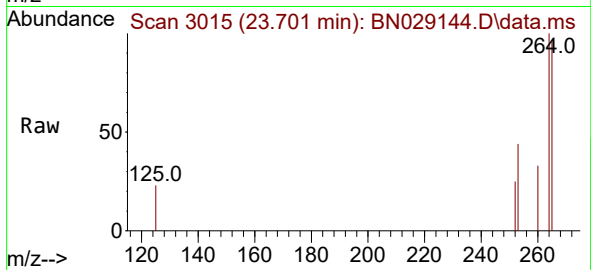
Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE



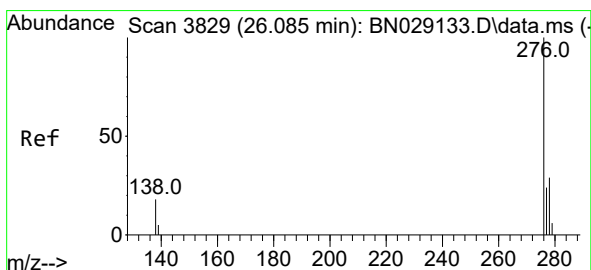
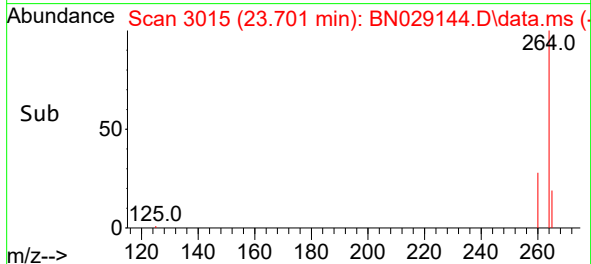
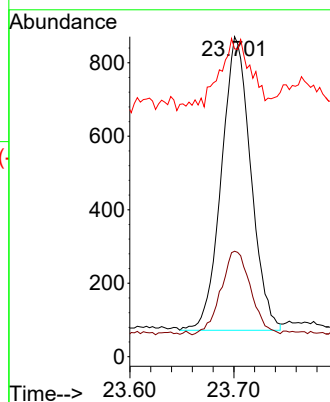
Tgt Ion:264 Resp: 1571

Ion Ratio Lower Upper

264 100

260 33.0 31.0 46.6

265 96.2 105.3 157.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.352 ng

RT: 26.075 min Scan# 3827

Delta R.T. -0.010 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

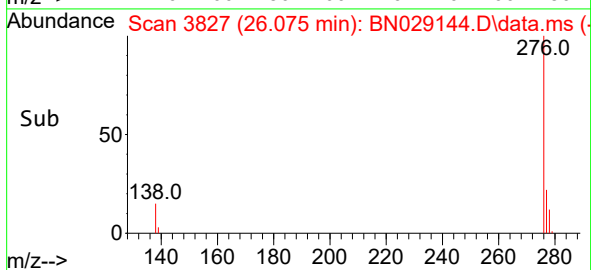
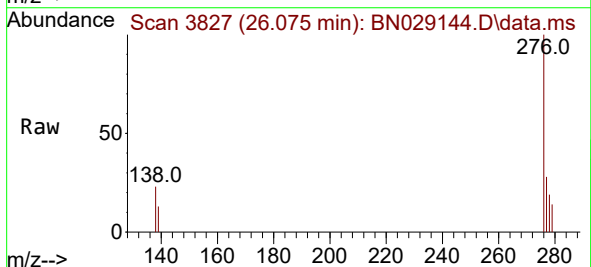
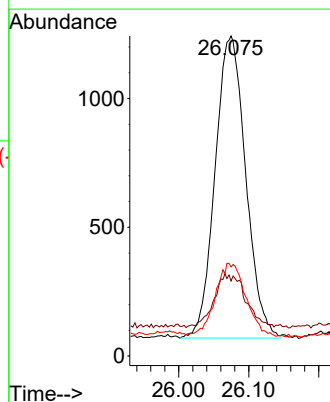
Tgt Ion:276 Resp: 3566

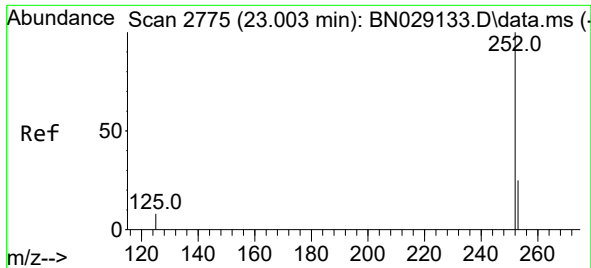
Ion Ratio Lower Upper

276 100

138 18.0 7.8 11.6#

277 24.1 9.2 13.8#

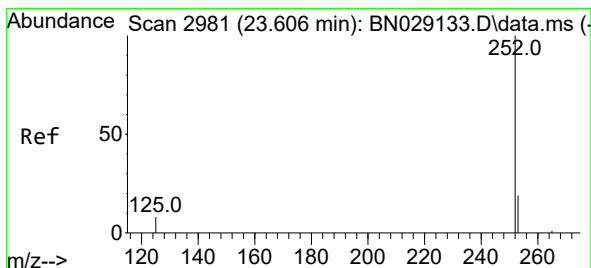
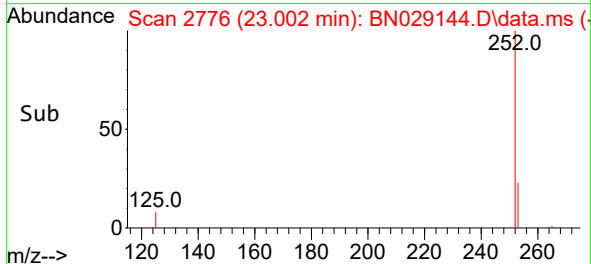
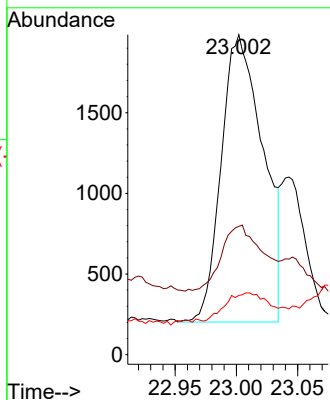
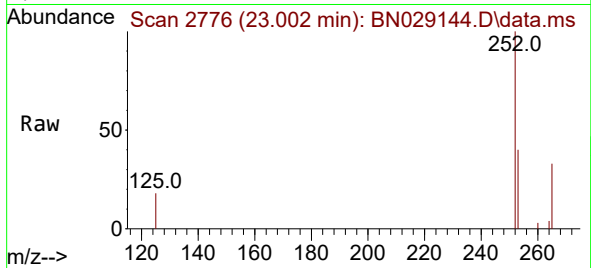




#37
Benzo(b)fluoranthene
Concen: 0.530 ng
RT: 23.002 min Scan# 21
Delta R.T. -0.002 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

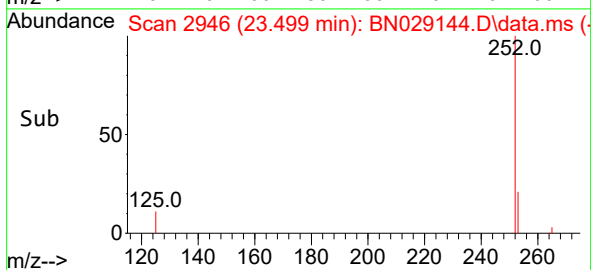
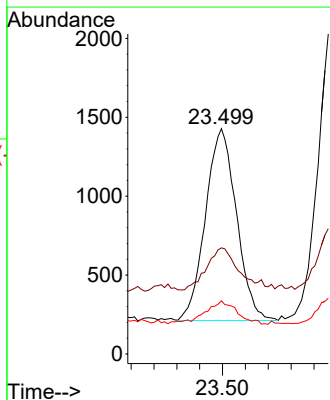
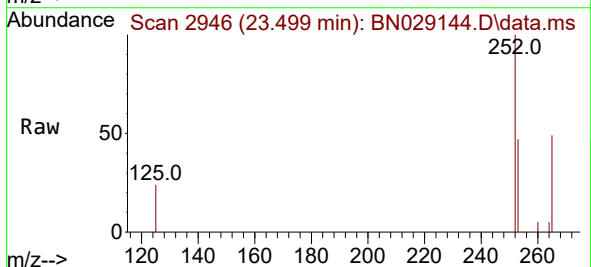
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

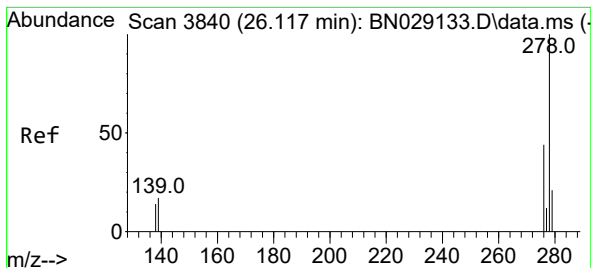
Tgt Ion:252 Resp: 4236
Ion Ratio Lower Upper
252 100
253 40.1 36.0 54.0
125 18.5 14.6 21.8



#39
Benzo(a)pyrene
Concen: 0.321 ng
RT: 23.499 min Scan# 2946
Delta R.T. -0.107 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion:252 Resp: 2289
Ion Ratio Lower Upper
252 100
253 47.1 40.3 60.5
125 23.6 16.7 25.1





#40

Dibenzo(a,h)anthracene

Concen: 0.046 ng

RT: 26.081 min Scan# 3829

Delta R.T. -0.037 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

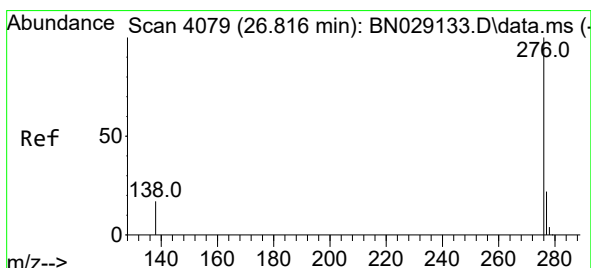
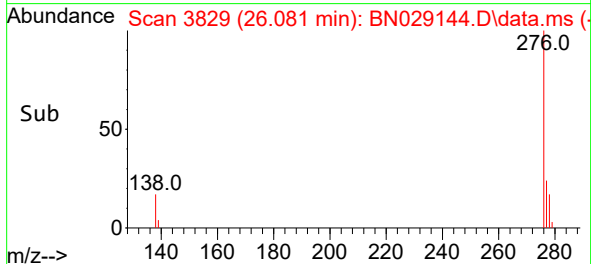
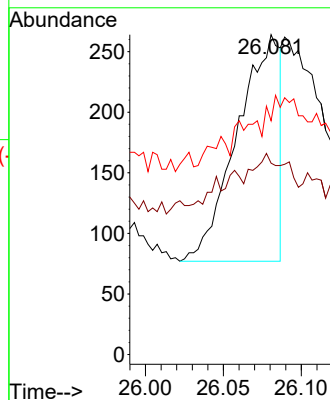
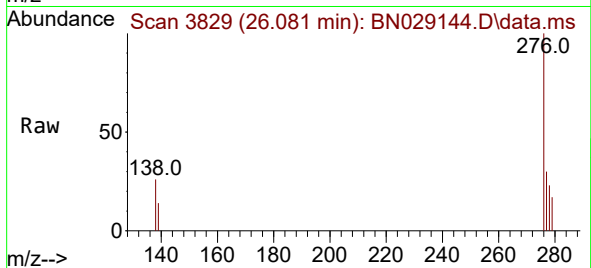
Tgt Ion:278 Resp: 357

Ion Ratio Lower Upper

278 100

139 59.8 24.2 36.2#

279 73.1 34.9 52.3#



#41

Benzo(g,h,i)perylene

Concen: 0.414 ng

RT: 26.809 min Scan# 4078

Delta R.T. -0.007 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Tgt Ion:276 Resp: 3547

Ion Ratio Lower Upper

276 100

277 27.4 25.5 38.3

138 24.4 22.9 34.3

