

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011420\
 Data File : BE101050.D
 Acq On : 14 Jan 2020 13:11
 Operator : JU
 Sample : L1103-07
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 14 20:41:56 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 08 18:36:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	3212	0.40	ng	0.00
7) Naphthalene-d8	10.51	136	13282	0.40	ng	0.01
13) Acenaphthene-d10	14.36	164	8985	0.40	ng	0.00
19) Phenanthrene-d10	17.09	188	21140	0.40	ng	0.00
27) Chrysene-d12	21.27	240	20938	0.40	ng	-0.01
34) Perylene-d12	23.69	264	23232	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.34	112	2112	0.29	ng	0.00
5) Phenol-d6	6.91	99	3240	0.35	ng	0.00
8) Nitrobenzene-d5	8.89	82	2464	0.26	ng	0.01
11) 2-Methylnaphthalene-d10	12.11	152	7327	0.29	ng	0.00
14) 2,4,6-Tribromophenol	15.85	330	454	0.18	ng	0.00
15) 2-Fluorobiphenyl	12.99	172	11148	0.33	ng	-0.01
25) Fluoranthene-d10	19.12	212	95571	0.33	ng	-0.01
29) Terphenyl-d14	19.72	244	18122	0.35	ng	-0.01

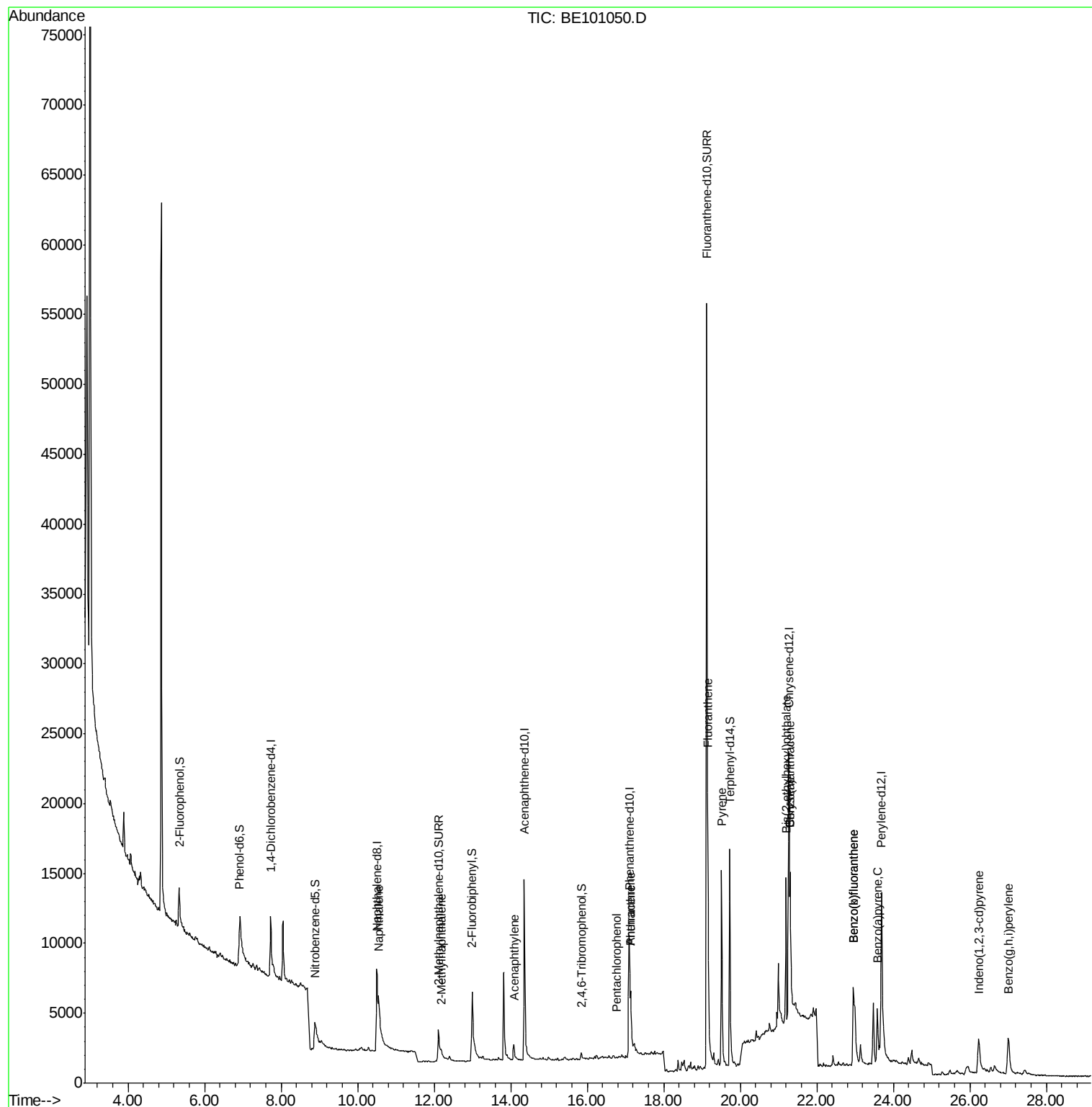
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.55	128	7302	0.050	ng	# 94
12) 2-Methylnaphthalene	12.18	142	572	0.026	ng	# 81
16) Acenaphthylene	14.08	152	2008	0.055	ng	96
22) Pentachlorophenol	16.76	266	13	0.253	ng	# 76
23) Phenanthrene	17.13	178	5023	0.087	ng	97
24) Anthracene	17.13	178	5023	0.092	ng	98
26) Fluoranthene	19.15	202	13374	0.185	ng	99
28) Pyrene	19.51	202	15751	0.202	ng	97
30) Benzo(a)anthracene	21.31	228	9704	0.162	ng	92
31) Chrysene	21.31	228	11061	0.125	ng	95
32) Bis(2-ethylhexyl)phthalate	21.20	149	12981	0.130	ng	99
33) Indeno(1,2,3-cd)pyrene	26.23	276	6080	0.087	ng	98
35) Benzo(b)fluoranthene	22.95	252	12056	0.185	ng	# 93
36) Benzo(k)fluoranthene	22.95	252	12056	0.128	ng	# 94
37) Benzo(a)pyrene	23.58	252	7717	0.122	ng	# 93
39) Benzo(g,h,i)perylene	27.01	276	7461	0.105	ng	93

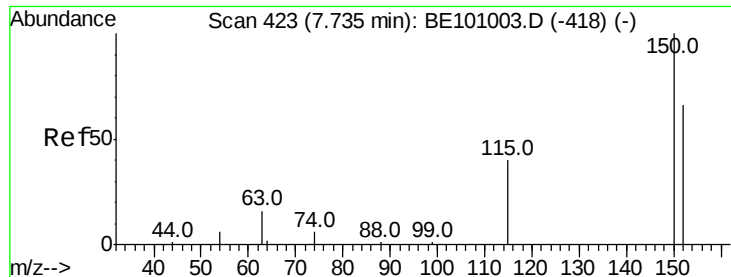
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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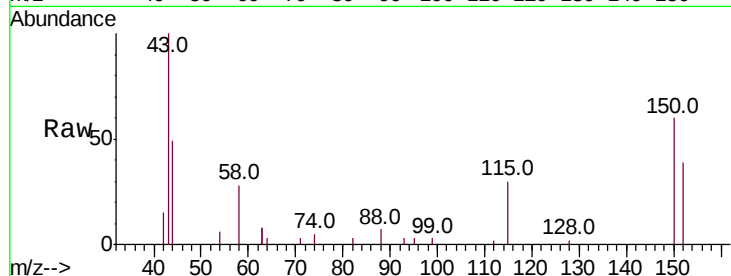


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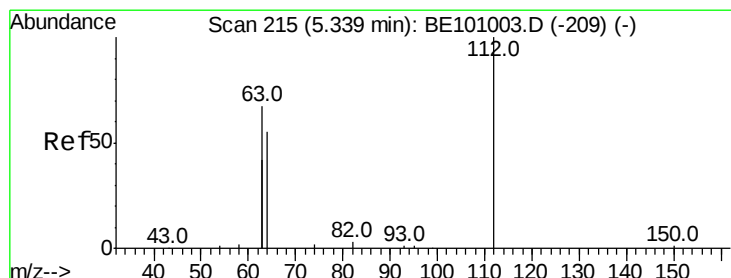
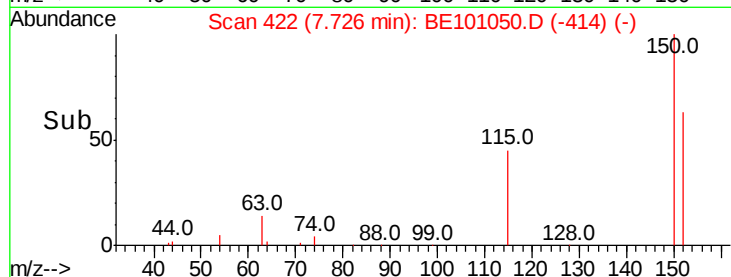
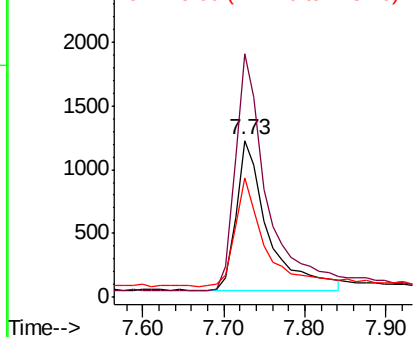
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.73 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE101050.D
Acq: 14 Jan 2020 13:11

Instrument :
BNA_E
ClientSampled :

Tot Ion:152 Resp: 3212
Ion Ratio Lower Upper
152 100
150 155.3 120.3 180.5
115 75.9 51.7 77.5



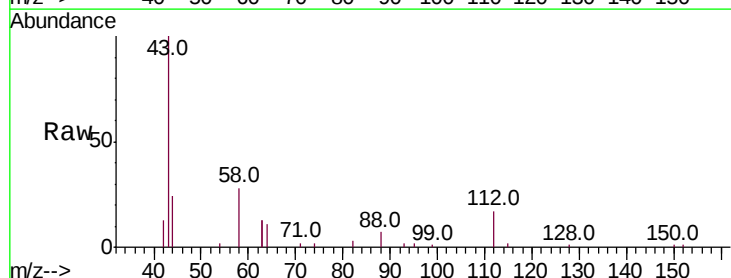
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



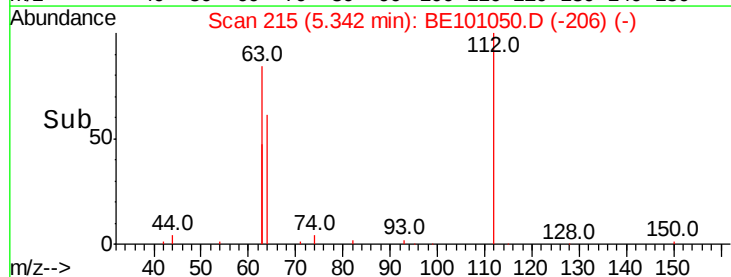
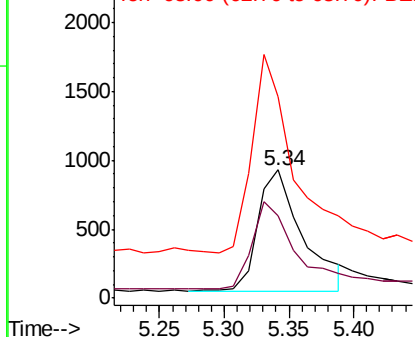
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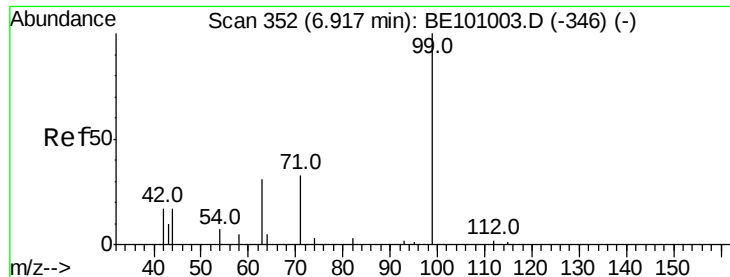
2-Fluorophenol
Concen: 0.292 ng
RT: 5.34 min Scan# 215
Delta R.T. 0.00 min
Lab File: BE101050.D
Acq: 14 Jan 2020 13:11

Tgt Ion:112 Resp: 2112
Ion Ratio Lower Upper
112 100
64 70.3 53.6 80.4
63 154.8 114.6 172.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.354 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

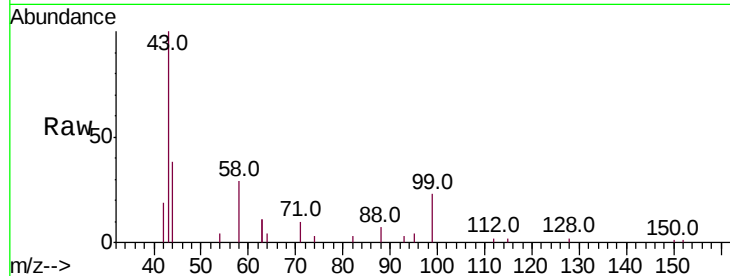
Tot Ion: 99 Resp: 3240

Ion Ratio Lower Upper

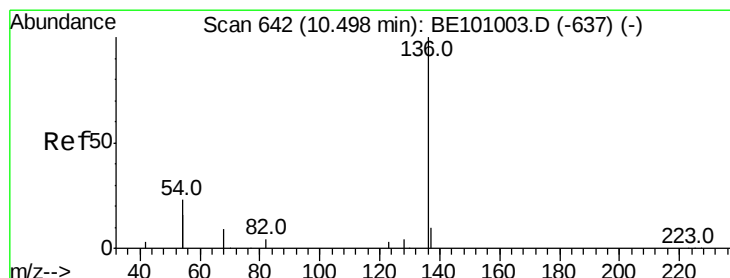
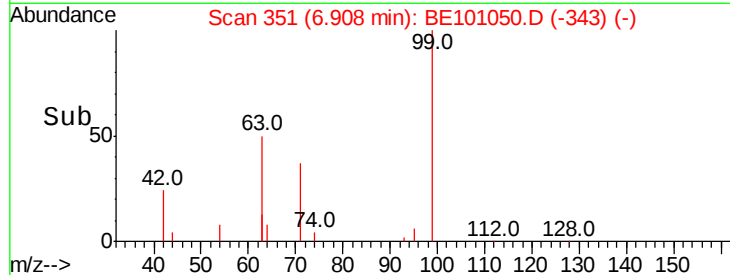
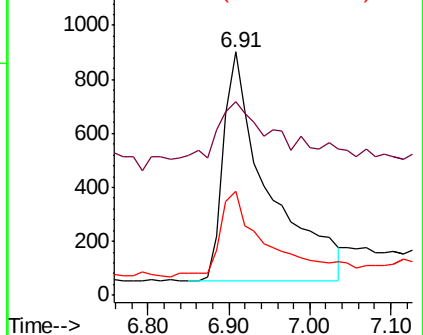
99 100

42 29.1 18.3 27.5#

71 37.6 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BE1
Ion 42.00 (41.70 to 42.70): BE1
Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.51 min Scan# 642

Delta R.T. 0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Tgt Ion: 136 Resp: 13282

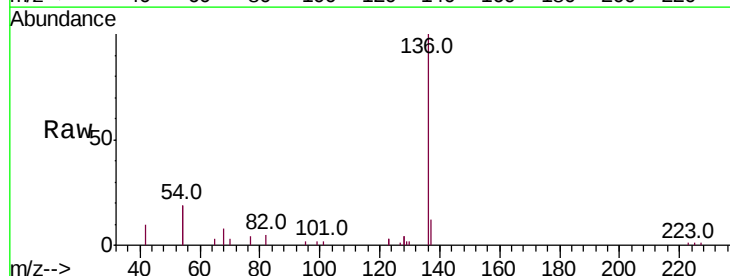
Ion Ratio Lower Upper

136 100

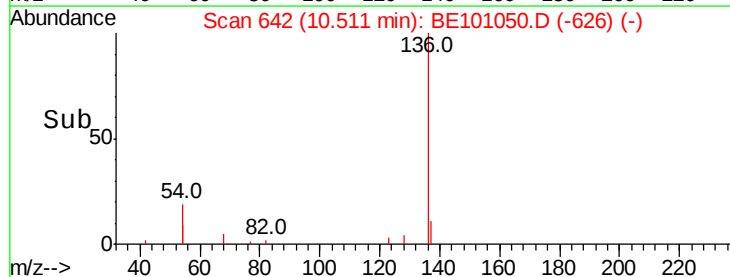
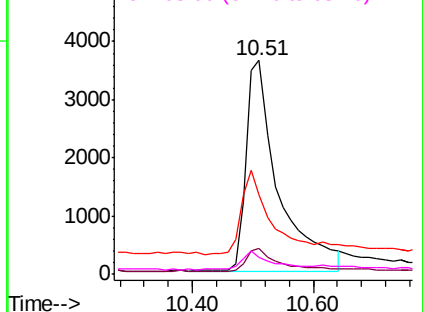
137 12.0 9.3 13.9

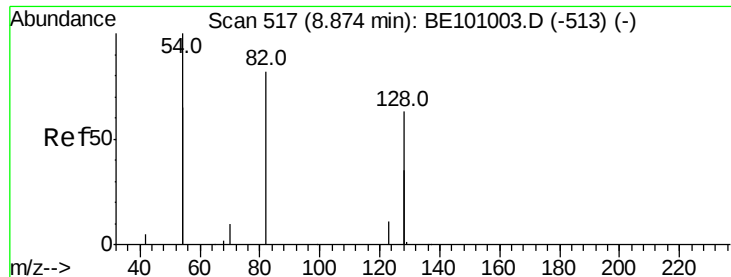
54 37.2 36.8 55.2

68 7.9 8.4 12.6#



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE1
Ion 68.00 (67.70 to 68.70): BE1

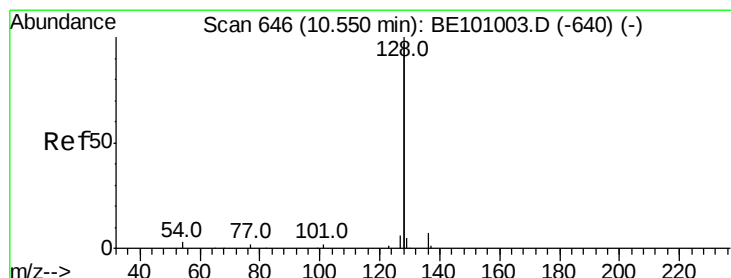
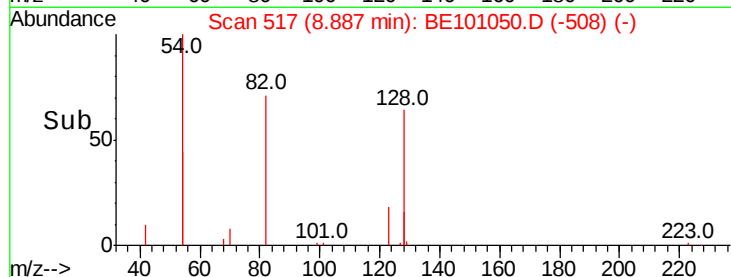
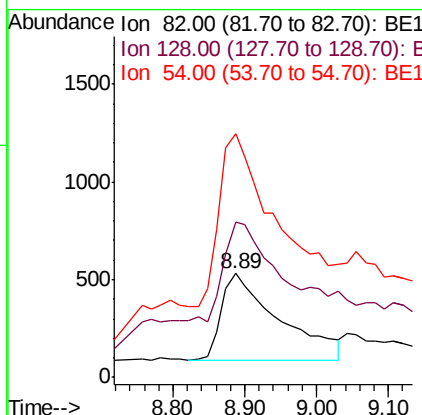
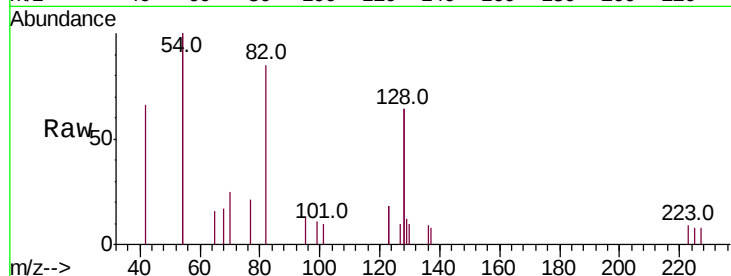




#8
 Nitrobenzene-d5
 Concen: 0.259 ng
 RT: 8.89 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: BE101050.D
 Acq: 14 Jan 2020 13:11

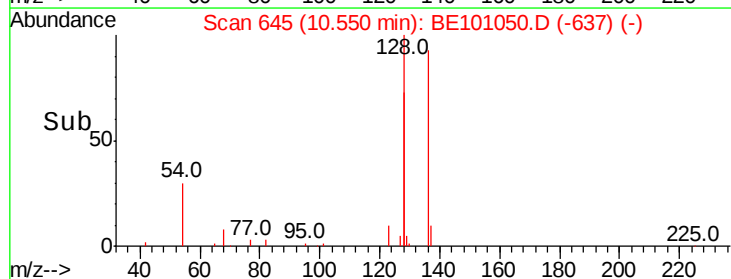
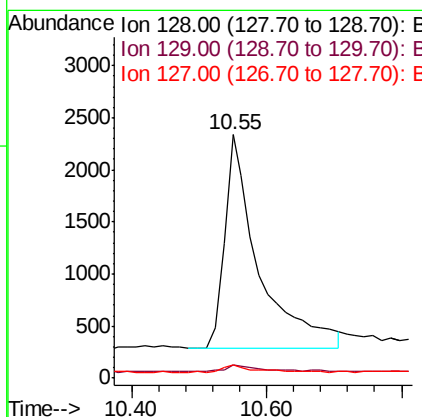
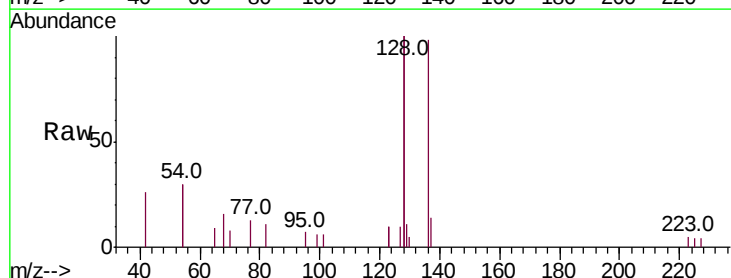
Instrument :
 BNA_E
 ClientSampleId :

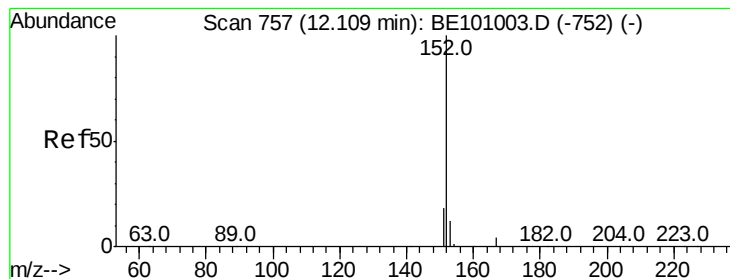
Tot Ion: 82 Resp: 2464
 Ion Ratio Lower Upper
 82 100
 128 149.2 109.8 164.6
 54 234.2 174.5 261.7



#9
 Naphthalene
 Concen: 0.050 ng
 RT: 10.55 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: BE101050.D
 Acq: 14 Jan 2020 13:11

Tgt Ion: 128 Resp: 7302
 Ion Ratio Lower Upper
 128 100
 129 5.3 2.3 3.5#
 127 5.2 2.7 4.1#

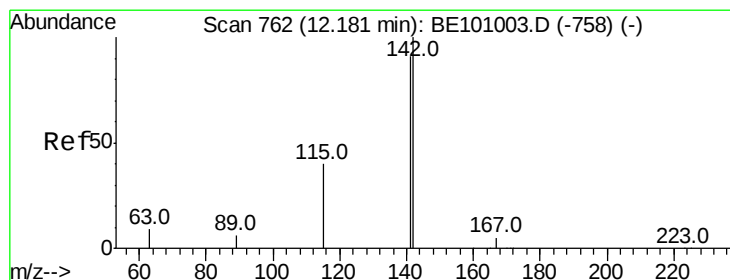
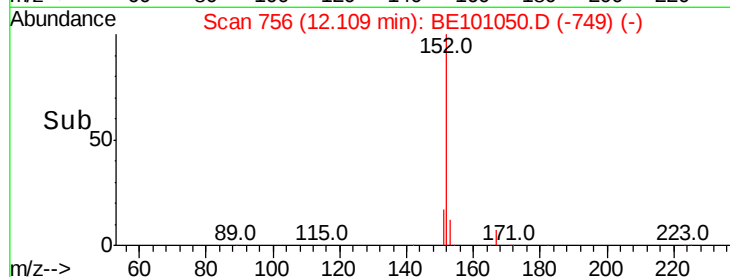
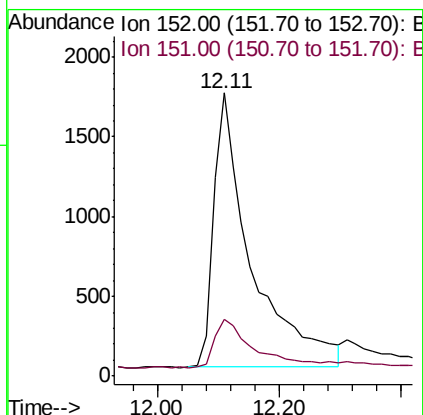
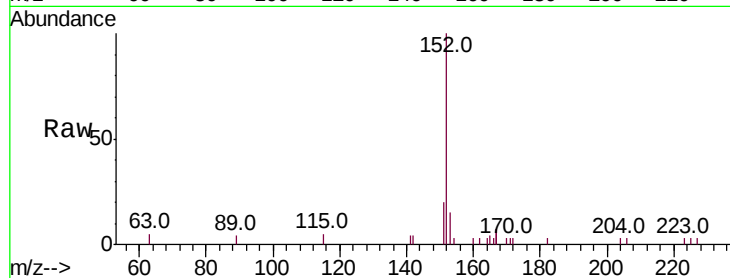




#11
 2-Methylnaphthalene-d10
 Concen: 0.289 ng
 RT: 12.11 min Scan# 756
 Delta R.T. 0.00 min
 Lab File: BE101050.D
 Acq: 14 Jan 2020 13:11

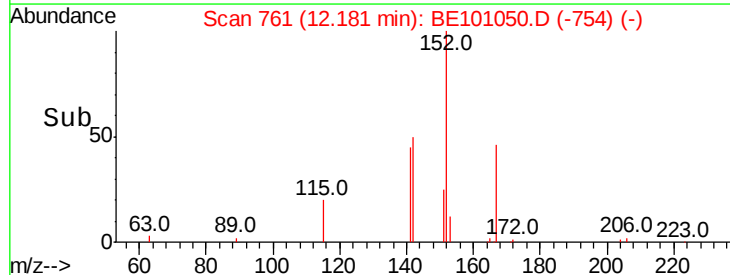
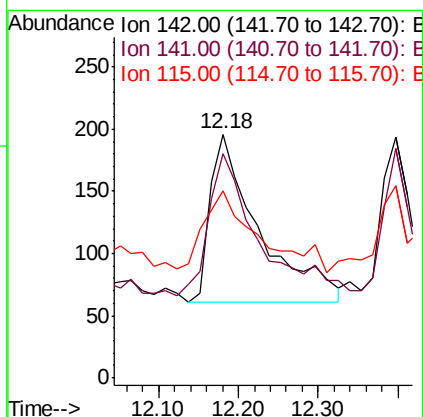
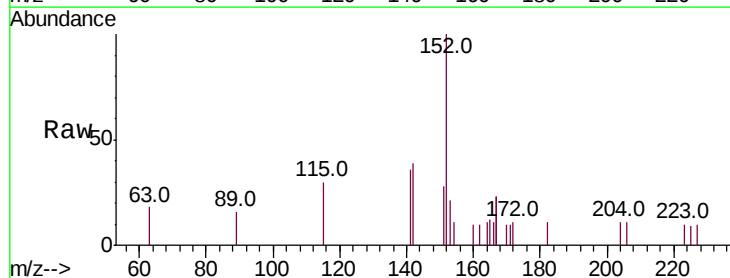
Instrument :
 BNA_E
 ClientSampleId :

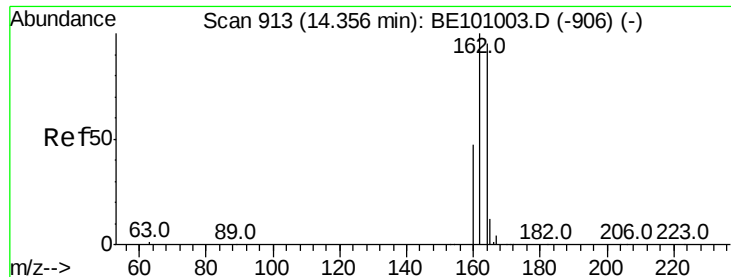
Tot Ion:152 Resp: 7327
 Ion Ratio Lower Upper
 152 100
 151 18.3 15.0 22.6



#12
 2-Methylnaphthalene
 Concen: 0.026 ng
 RT: 12.18 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: BE101050.D
 Acq: 14 Jan 2020 13:11

Tgt Ion:142 Resp: 572
 Ion Ratio Lower Upper
 142 100
 141 91.8 72.5 108.7
 115 77.0 33.0 49.6#

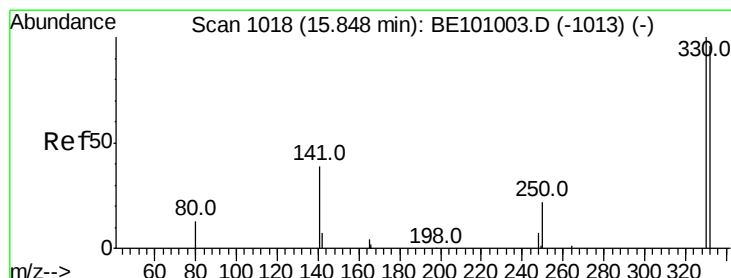
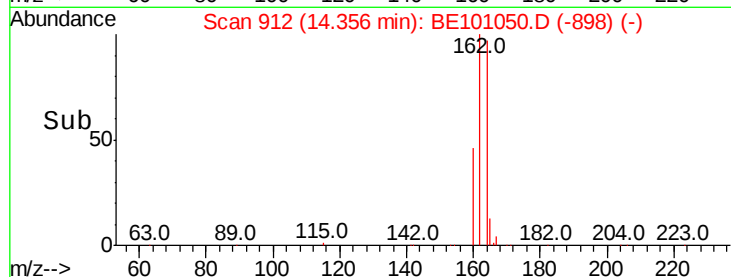
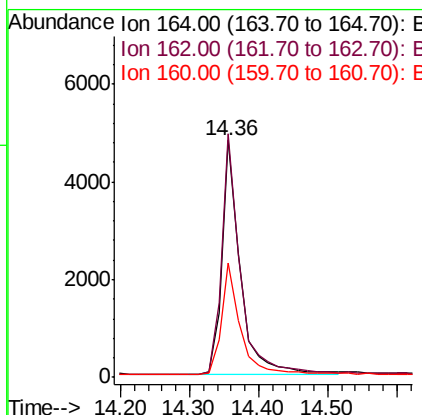
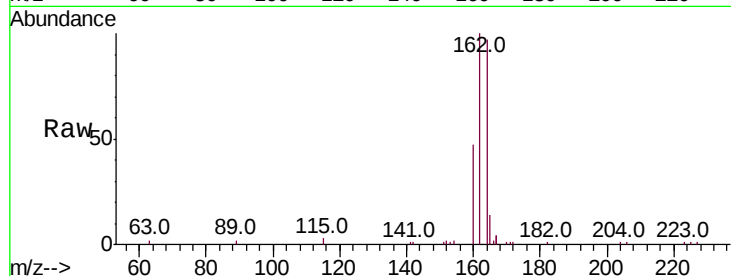




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.36 min Scan# 912
Delta R.T. 0.00 min
Lab File: BE101050.D
Acq: 14 Jan 2020 13:11

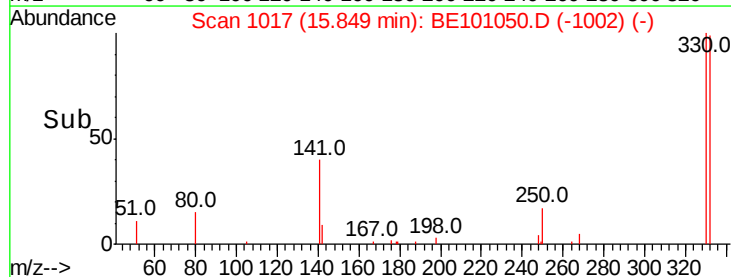
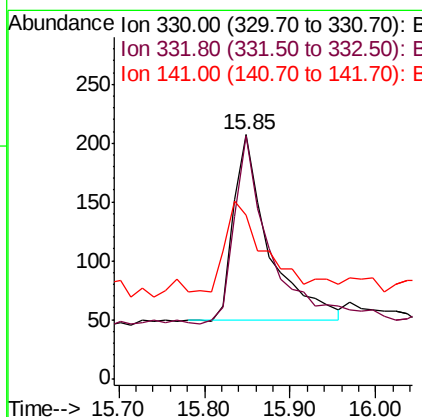
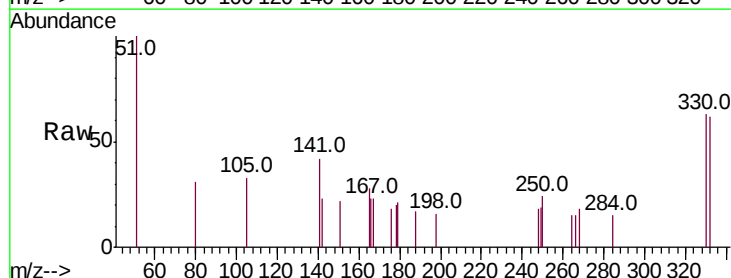
Instrument :
BNA_E
ClientSampleId :

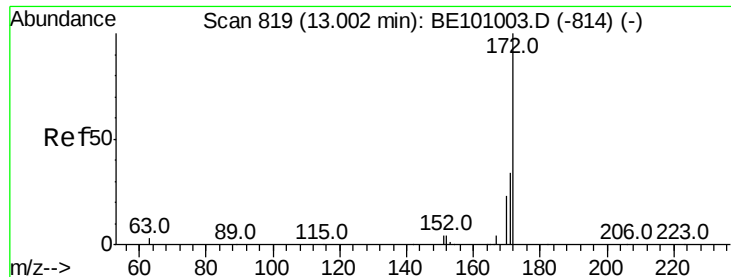
Tot Ion:164 Resp: 8985
Ion Ratio Lower Upper
164 100
162 102.7 84.1 126.1
160 48.3 40.4 60.6



#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.85 min Scan# 1017
Delta R.T. 0.00 min
Lab File: BE101050.D
Acq: 14 Jan 2020 13:11

Tgt Ion:330 Resp: 454
Ion Ratio Lower Upper
330 100
332 105.7 78.4 117.6
141 52.9 37.0 55.4

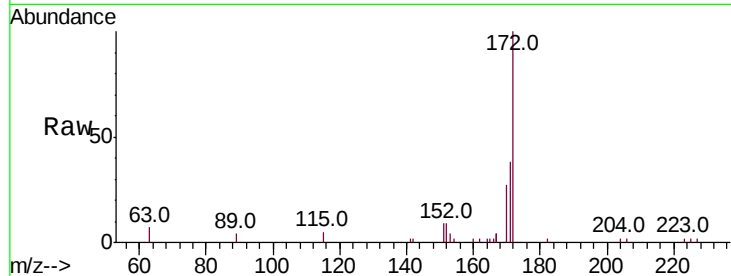




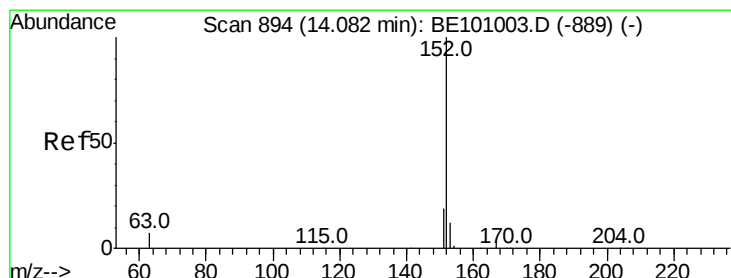
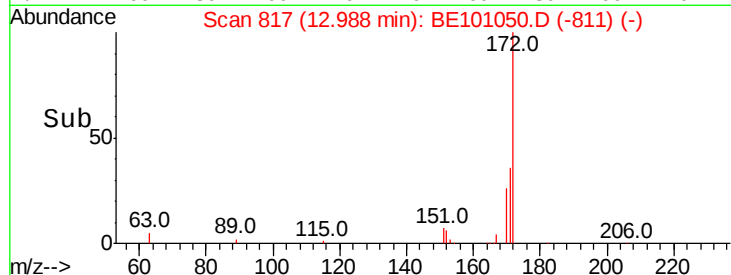
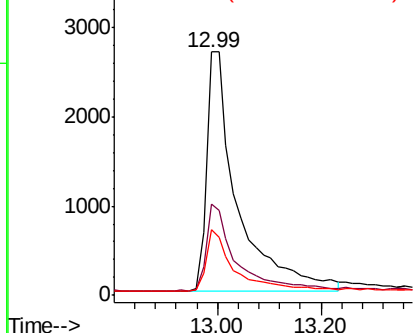
#15
2-Fluorobiphenyl
Concen: 0.327 ng
RT: 12.99 min Scan# 817
Delta R.T. -0.01 min
Lab File: BE101050.D
Acq: 14 Jan 2020 13:11

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 11148
Ion Ratio Lower Upper
172 100
171 37.6 28.2 42.2
170 26.8 18.9 28.3

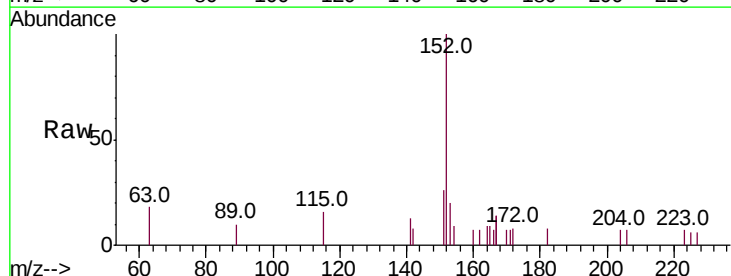


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

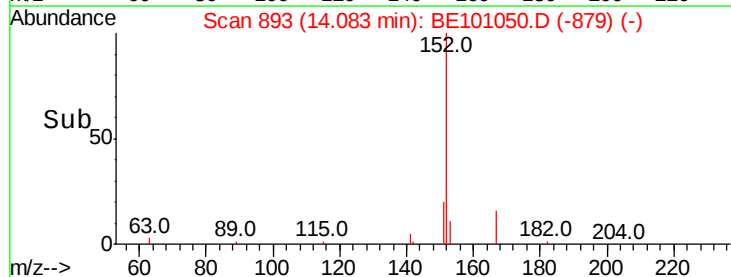
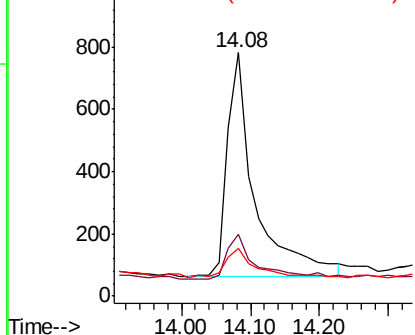


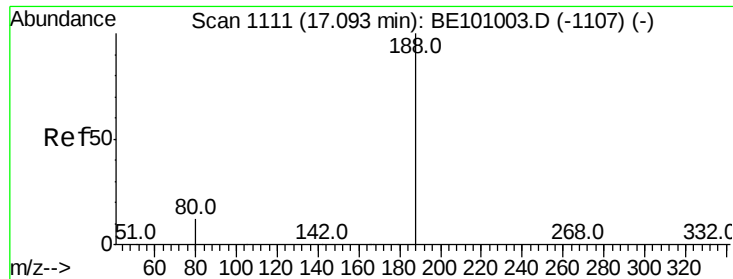
#16
Acenaphthylene
Concen: 0.055 ng
RT: 14.08 min Scan# 893
Delta R.T. 0.00 min
Lab File: BE101050.D
Acq: 14 Jan 2020 13:11

Tgt Ion:152 Resp: 2008
Ion Ratio Lower Upper
152 100
151 21.6 15.5 23.3
153 13.8 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.09 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampled :

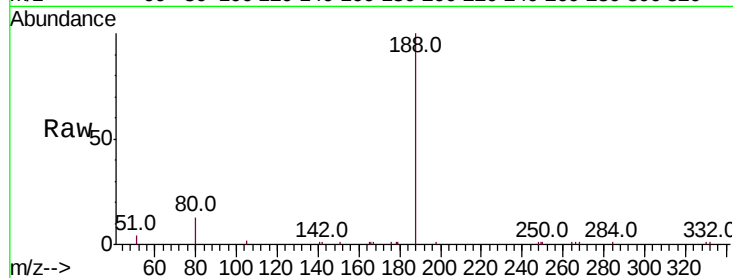
Tot Ion:188 Resp: 21140

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

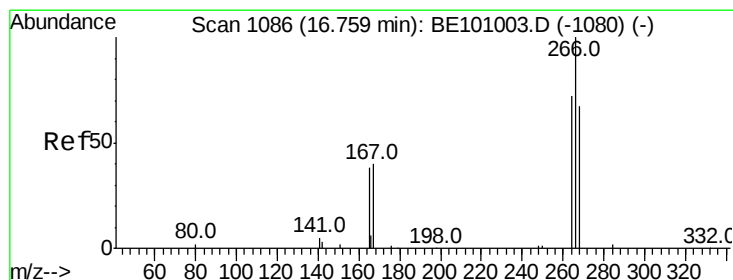
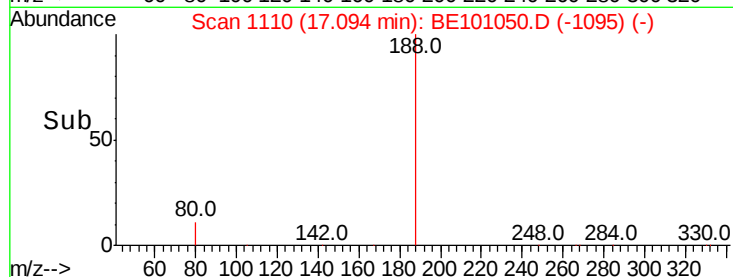
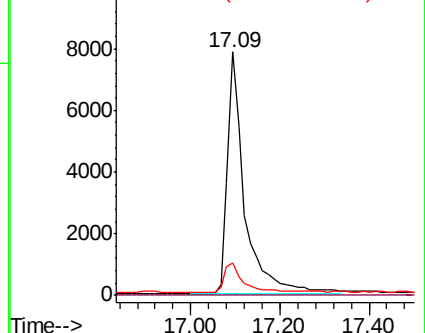
80 13.1 10.8 16.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#22

Pentachlorophenol

Concen: 0.253 ng

RT: 16.76 min Scan# 1085

Delta R.T. 0.00 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

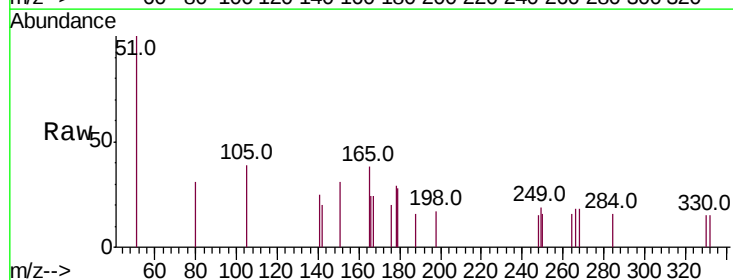
Tgt Ion:266 Resp: 13

Ion Ratio Lower Upper

266 100

264 89.7 61.0 91.4

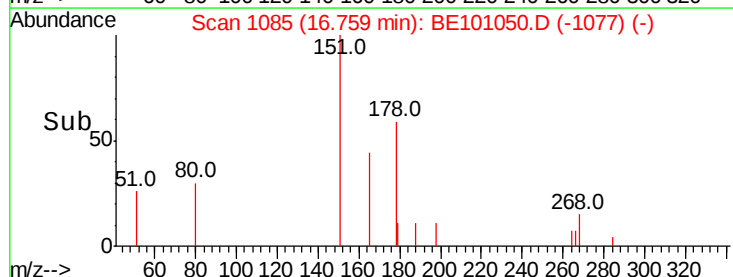
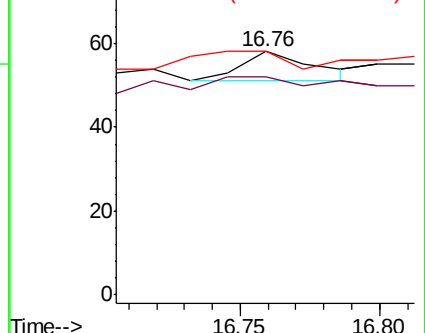
268 100.0 58.5 87.7#

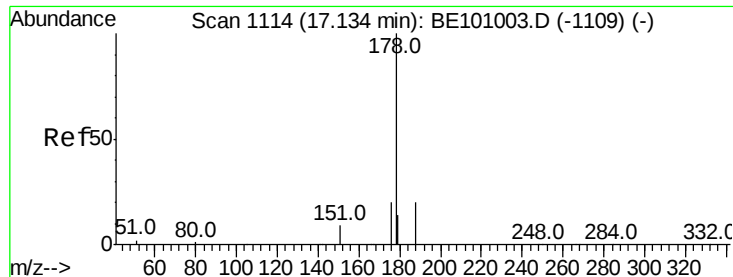


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.087 ng

RT: 17.13 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

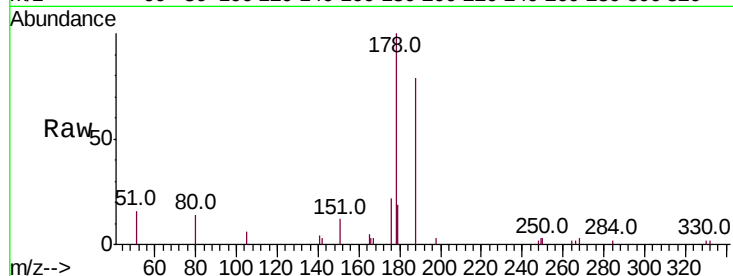
Tot Ion:178 Resp: 5023

Ion Ratio Lower Upper

178 100

176 18.9 15.7 23.5

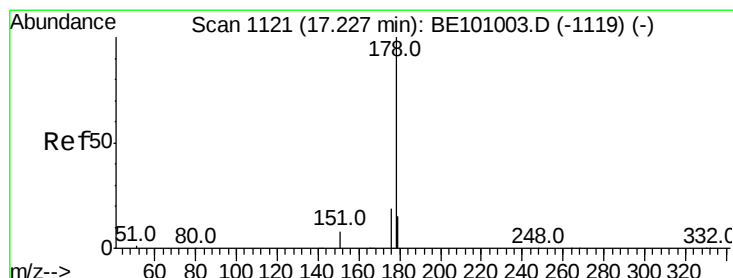
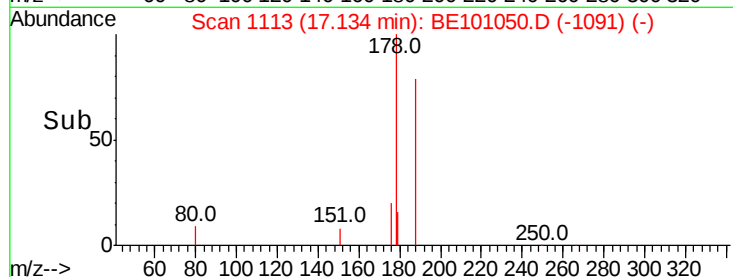
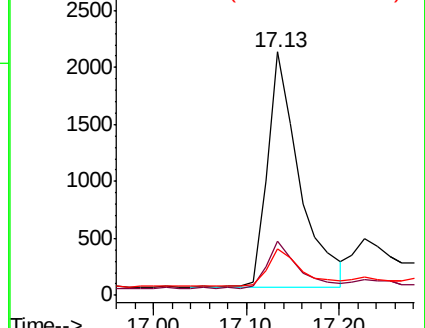
179 17.1 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.092 ng

RT: 17.13 min Scan# 1113

Delta R.T. -0.09 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

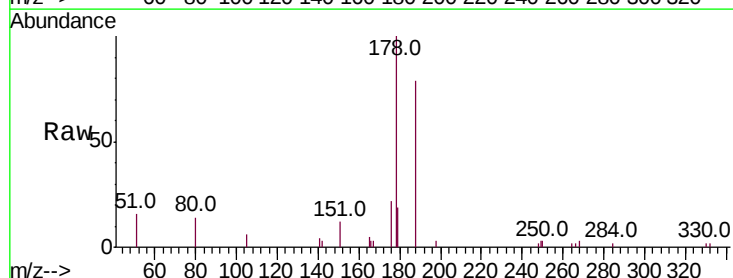
Tgt Ion:178 Resp: 5023

Ion Ratio Lower Upper

178 100

176 18.9 14.8 22.2

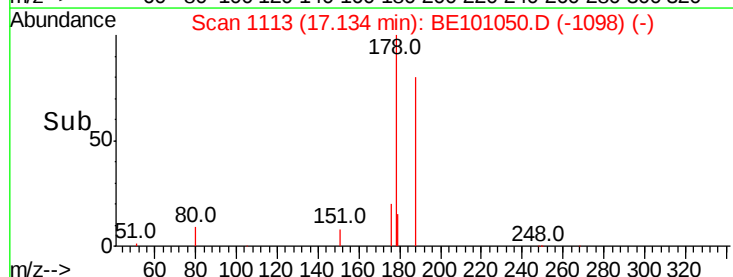
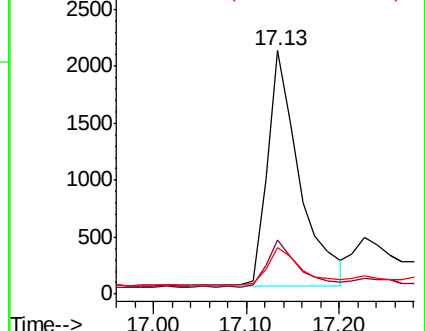
179 17.1 12.4 18.6

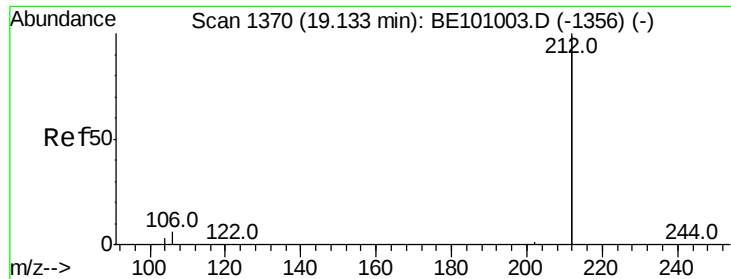


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.326 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

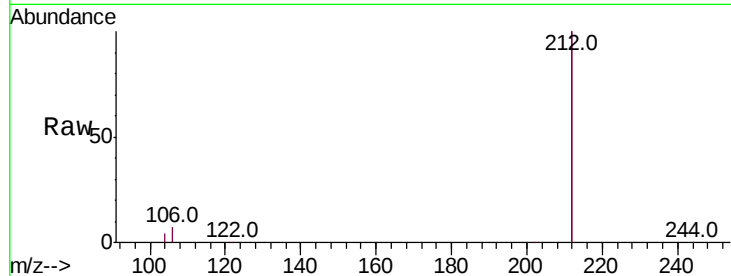
Tot Ion:212 Resp: 95571

Ion Ratio Lower Upper

212 100

106 3.2 2.6 3.8

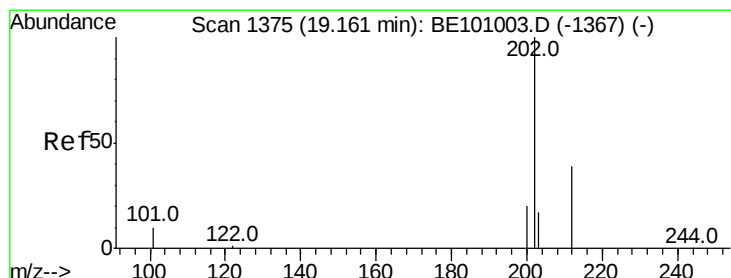
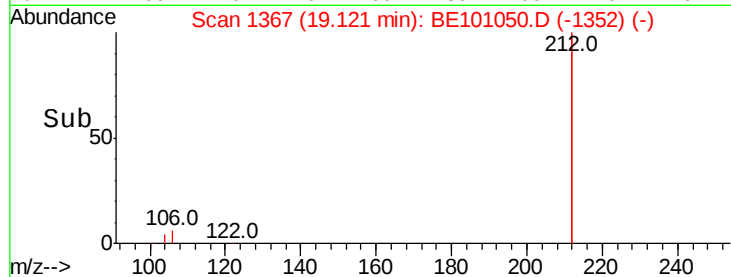
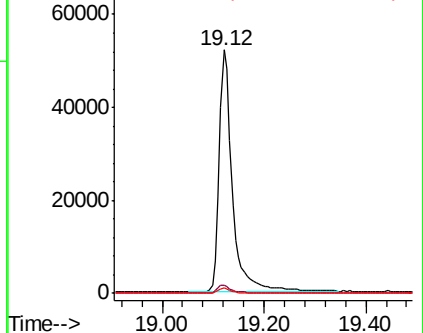
104 1.8 1.4 2.0



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.185 ng

RT: 19.15 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

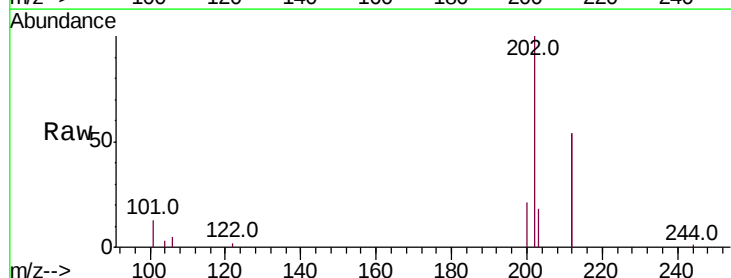
Tgt Ion:202 Resp: 13374

Ion Ratio Lower Upper

202 100

101 11.5 9.6 14.4

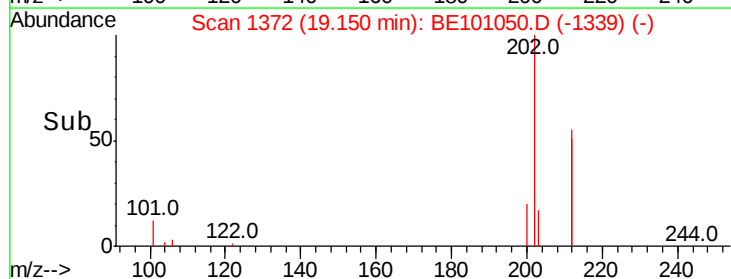
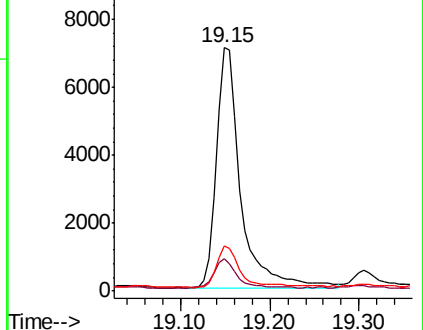
203 16.8 13.8 20.6

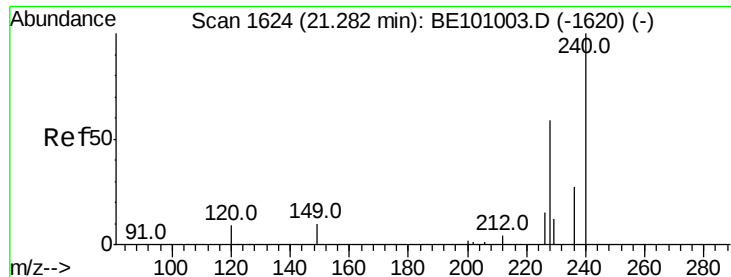


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

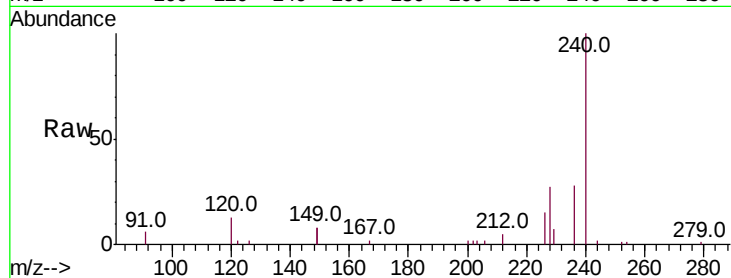
Tot Ion:240 Resp: 20938

Ion Ratio Lower Upper

240 100

120 13.1 8.6 13.0#

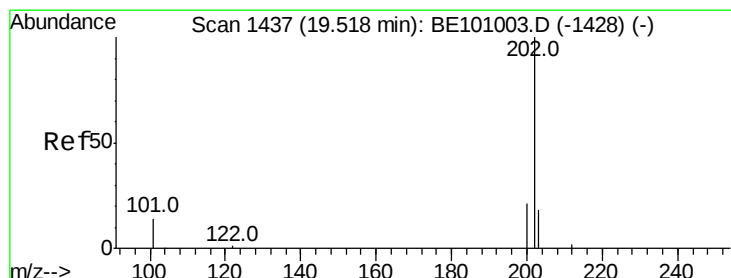
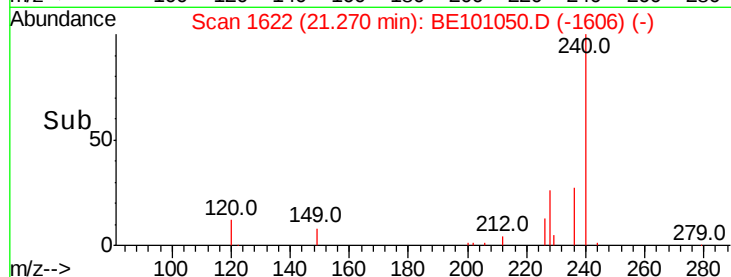
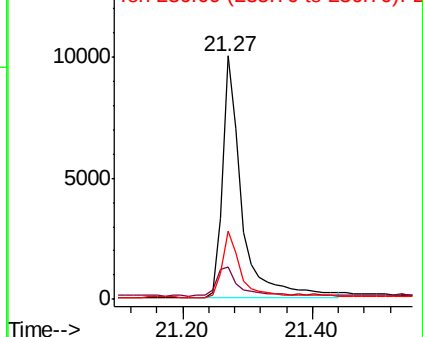
236 27.9 22.2 33.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.202 ng

RT: 19.51 min Scan# 1435

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

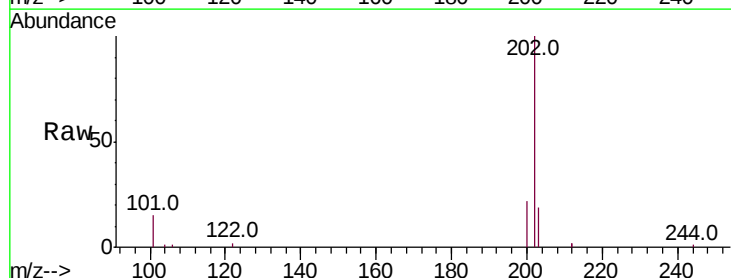
Tgt Ion:202 Resp: 15751

Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

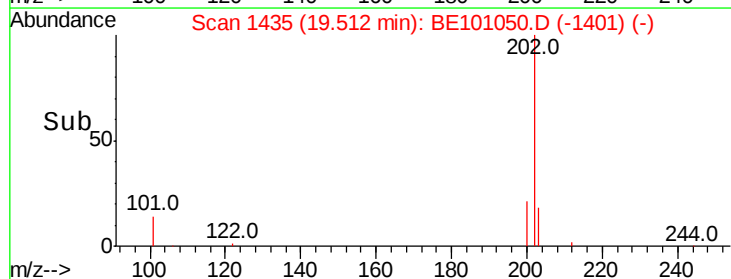
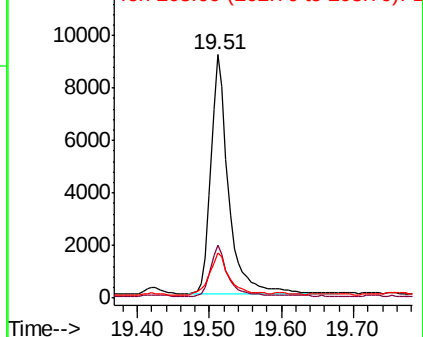
203 19.4 13.8 20.6

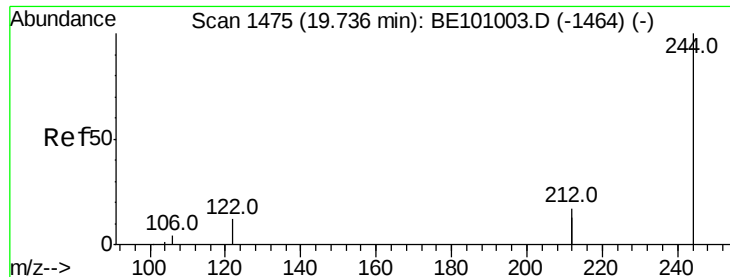


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.353 ng

RT: 19.72 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

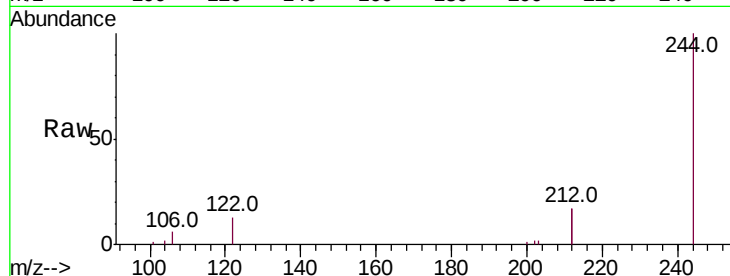
Tot Ion:244 Resp: 18122

Ion Ratio Lower Upper

244 100

212 33.5 27.2 40.8

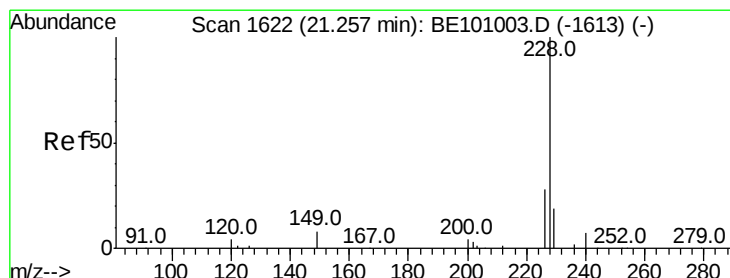
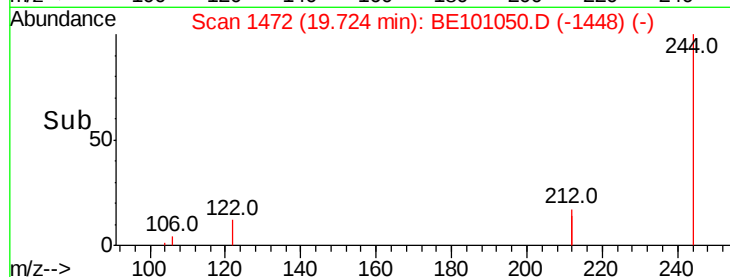
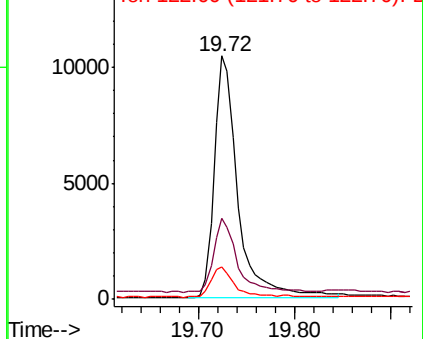
122 13.2 9.8 14.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.162 ng

RT: 21.31 min Scan# 1625

Delta R.T. 0.05 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

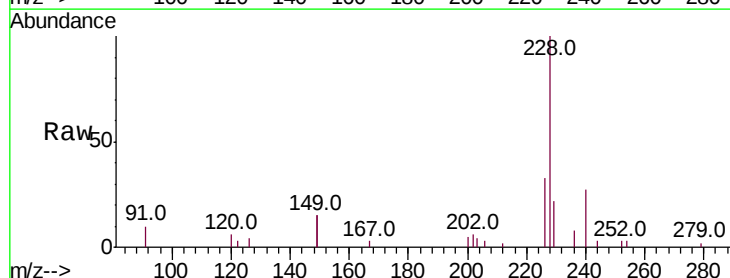
Tgt Ion:228 Resp: 9704

Ion Ratio Lower Upper

228 100

226 33.1 22.7 34.1

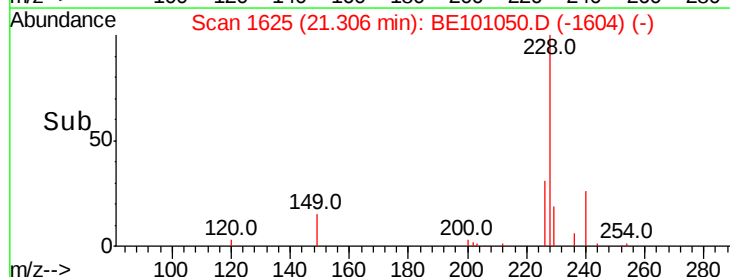
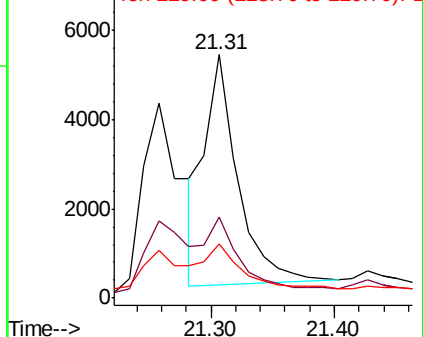
229 22.1 15.5 23.3

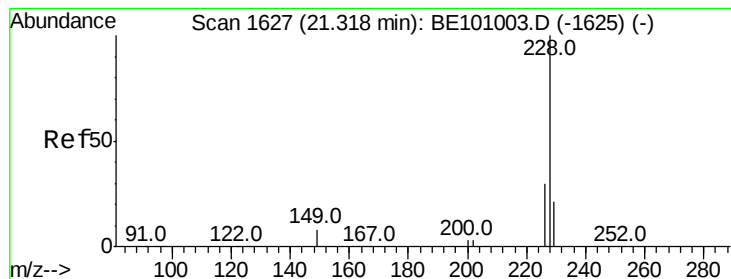


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.125 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

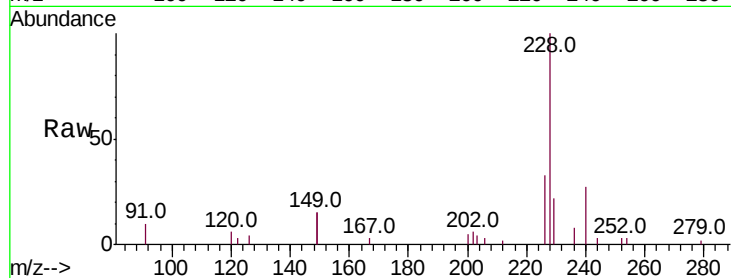
Tot Ion:228 Resp: 11061

Ion Ratio Lower Upper

228 100

226 33.1 23.5 35.3

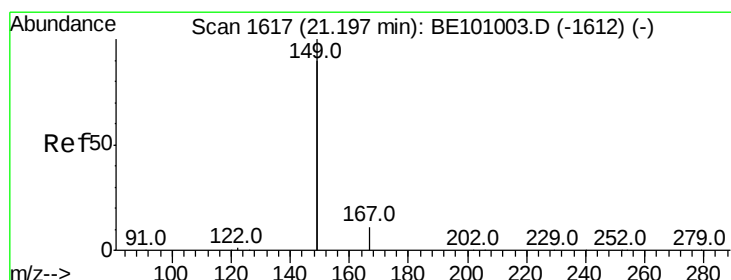
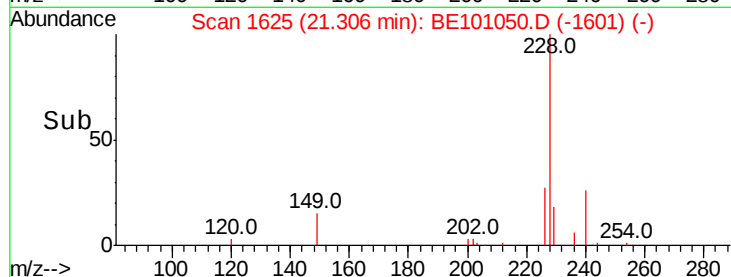
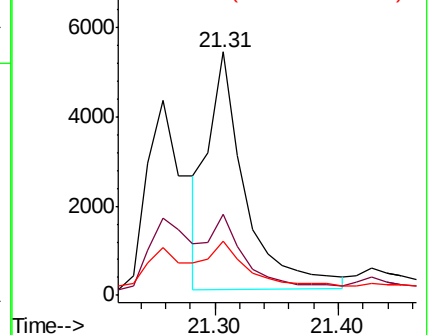
229 22.1 16.7 25.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.130 ng

RT: 21.20 min Scan# 1616

Delta R.T. 0.00 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

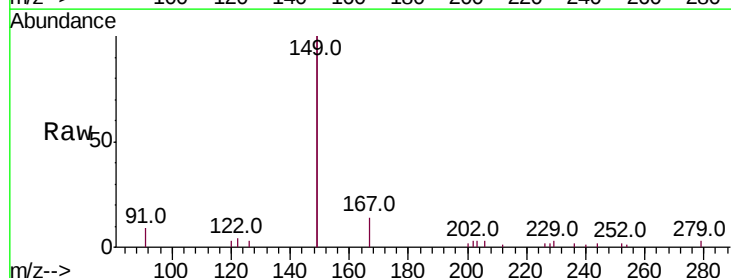
Tgt Ion:149 Resp: 12981

Ion Ratio Lower Upper

149 100

167 6.8 5.2 7.8

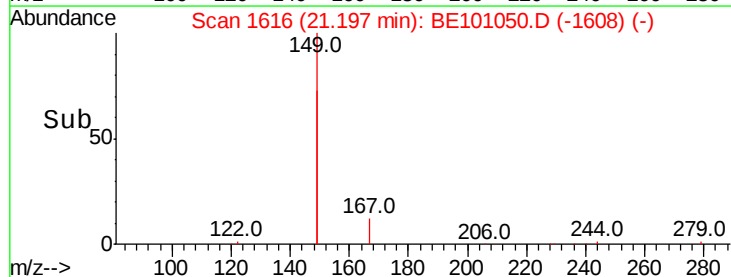
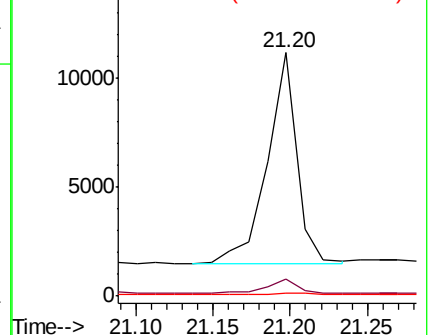
279 1.2 0.8 1.2

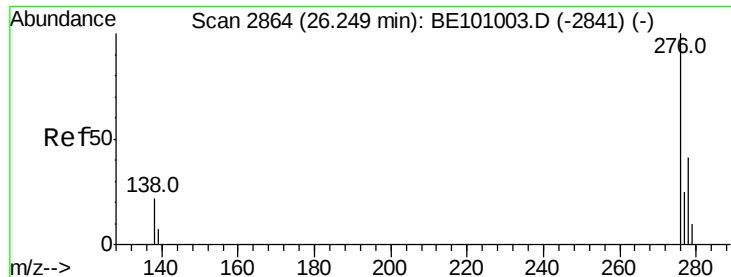


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.087 ng

RT: 26.23 min Scan# 2857

Delta R.T. -0.02 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

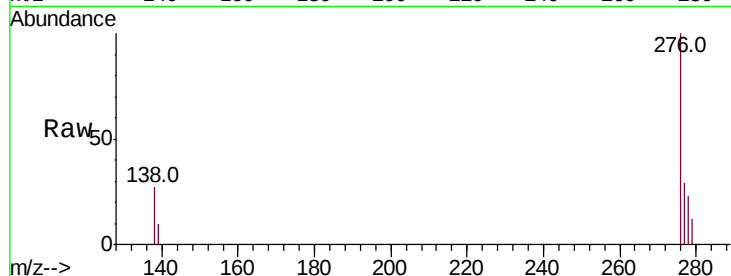
Tot Ion:276 Resp: 6080

Ion Ratio Lower Upper

276 100

138 19.2 16.1 24.1

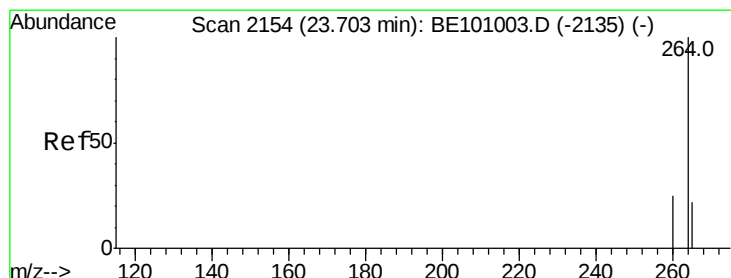
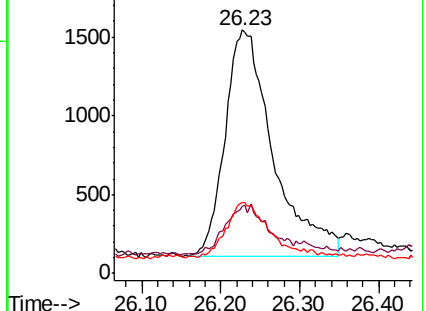
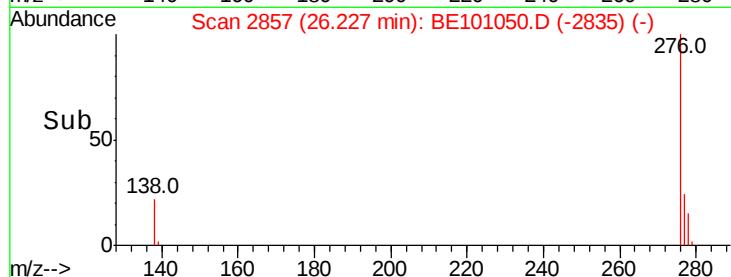
277 21.3 18.1 27.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.69 min Scan# 2150

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

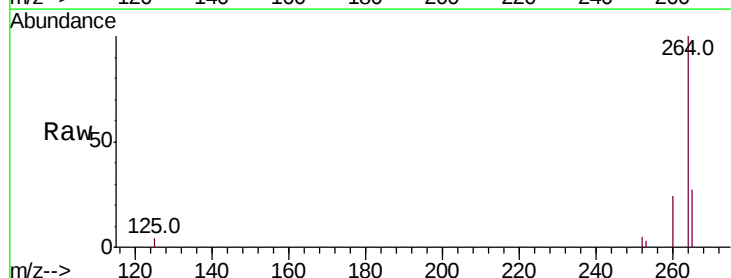
Tgt Ion:264 Resp: 23232

Ion Ratio Lower Upper

264 100

260 24.4 20.3 30.5

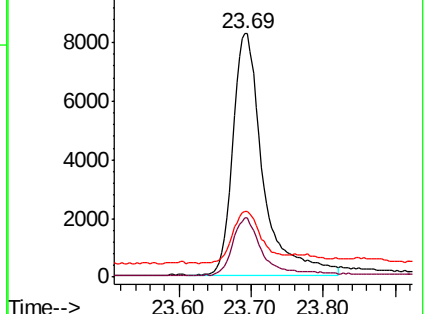
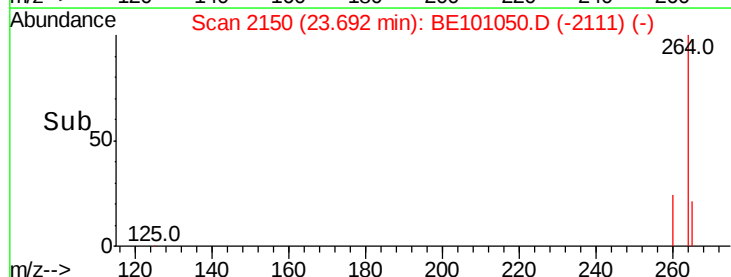
265 26.9 27.0 40.4#

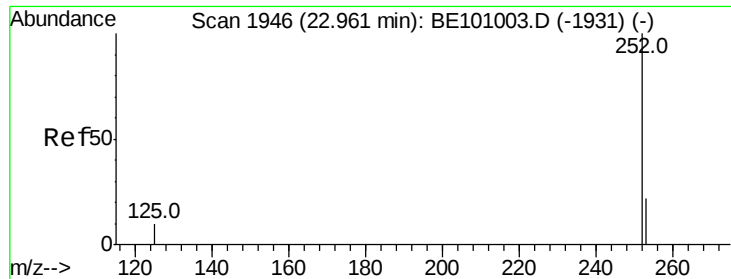


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.185 ng

RT: 22.95 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

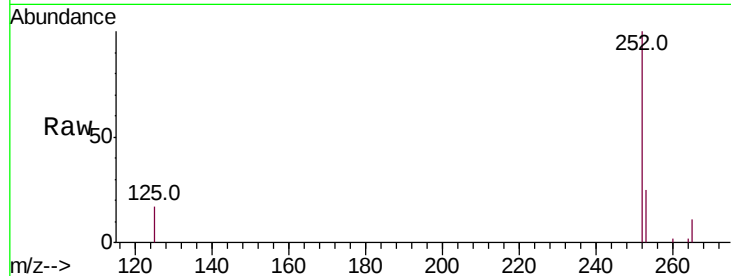
Tot Ion:252 Resp: 12056

Ion Ratio Lower Upper

252 100

253 25.0 18.5 27.7

125 17.4 9.5 14.3#

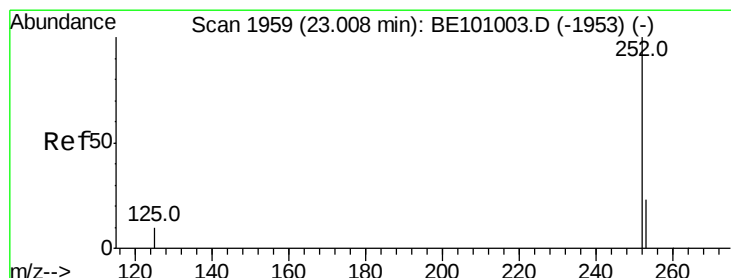
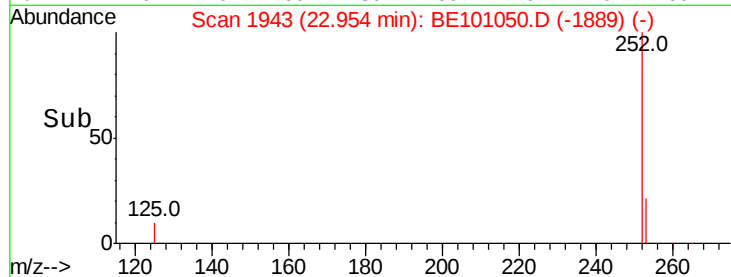
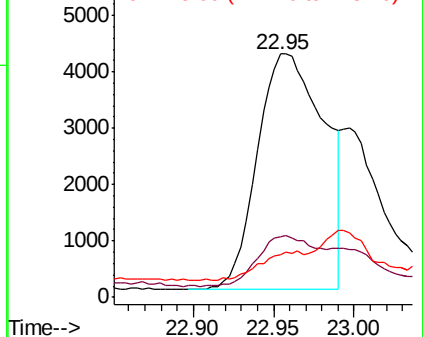


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.128 ng

RT: 22.95 min Scan# 1943

Delta R.T. -0.05 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

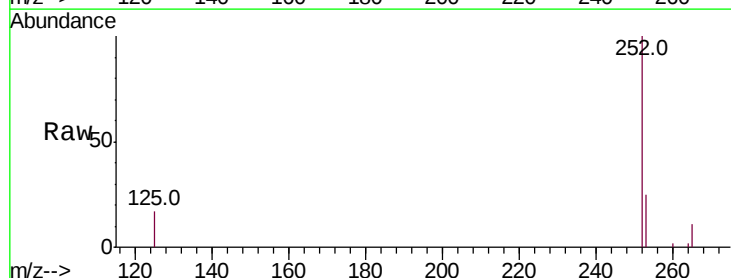
Tgt Ion:252 Resp: 12056

Ion Ratio Lower Upper

252 100

253 25.0 18.9 28.3

125 17.4 10.1 15.1#

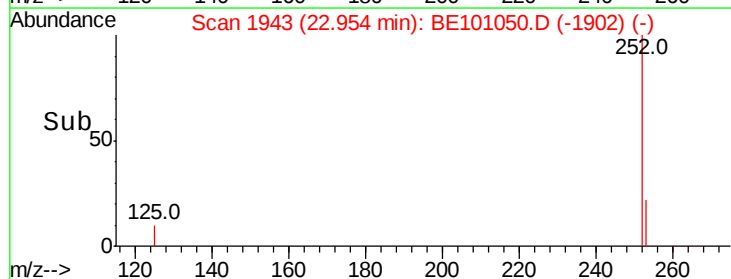
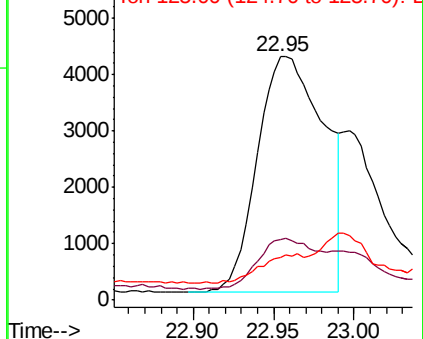


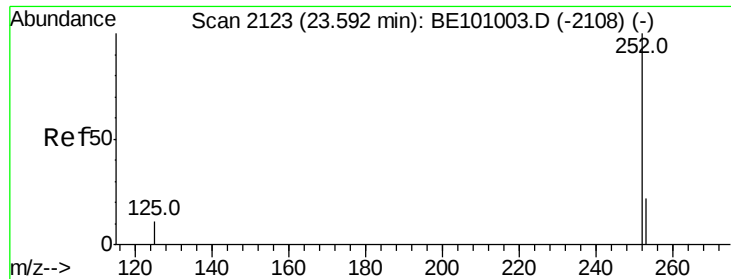
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.122 ng

RT: 23.58 min Scan# 2119

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

Instrument :

BNA_E

ClientSampleId :

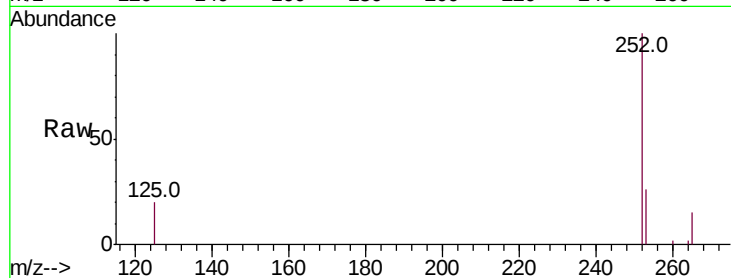
Tot Ion:252 Resp: 7717

Ion Ratio Lower Upper

252 100

253 26.4 19.4 29.2

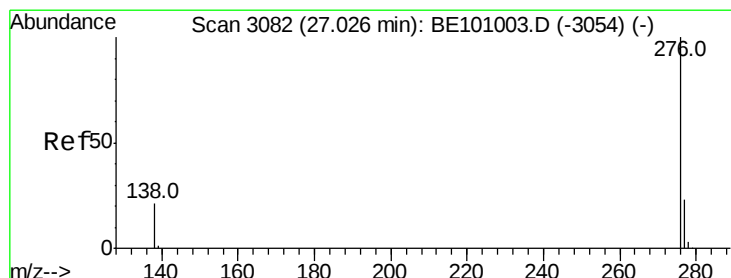
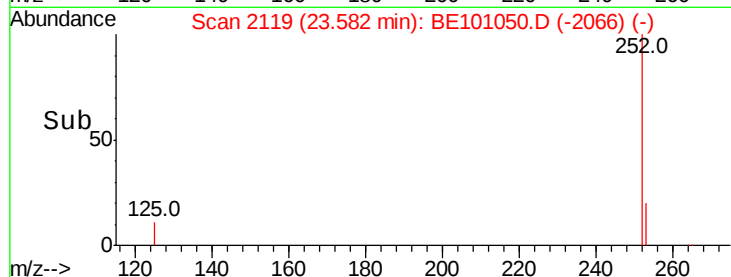
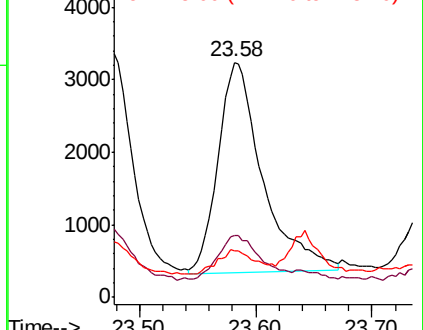
125 19.7 11.8 17.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.105 ng

RT: 27.01 min Scan# 3077

Delta R.T. -0.01 min

Lab File: BE101050.D

Acq: 14 Jan 2020 13:11

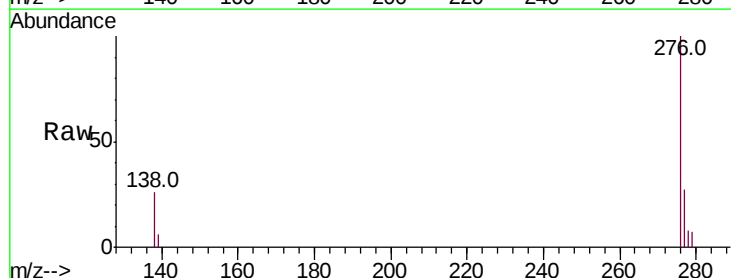
Tgt Ion:276 Resp: 7461

Ion Ratio Lower Upper

276 100

277 26.8 19.4 29.2

138 26.3 17.9 26.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

