

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032319\
 Data File : BE099119.D
 Acq On : 23 Mar 2019 19:32
 Operator : JU/SJ
 Sample : K2014-19
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-026-SW077-031919

Quant Time: Mar 23 22:37:16 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032219.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Mar 23 04:40:11 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	3098	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	11724	0.40	ng	-0.01
13) Acenaphthene-d10	14.49	164	7835	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	22827	0.40	ng	0.00
27) Chrysene-d12	21.39	240	33229	0.40	ng	0.00
34) Perylene-d12	23.90	264	35786	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.41	112	4059	0.44	ng	0.00
5) Phenol-d6	6.99	99	5889	0.44	ng	0.00
8) Nitrobenzene-d5	8.99	82	4073	0.79	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	8583	0.41	ng	-0.01
14) 2,4,6-Tribromophenol	15.96	330	1499	0.65	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	12298	0.39	ng	-0.01
25) Fluoranthene-d10	19.24	212	133961	0.44	ng	0.00
29) Terphenyl-d14	19.83	244	22899	0.33	ng	0.00

Target Compounds

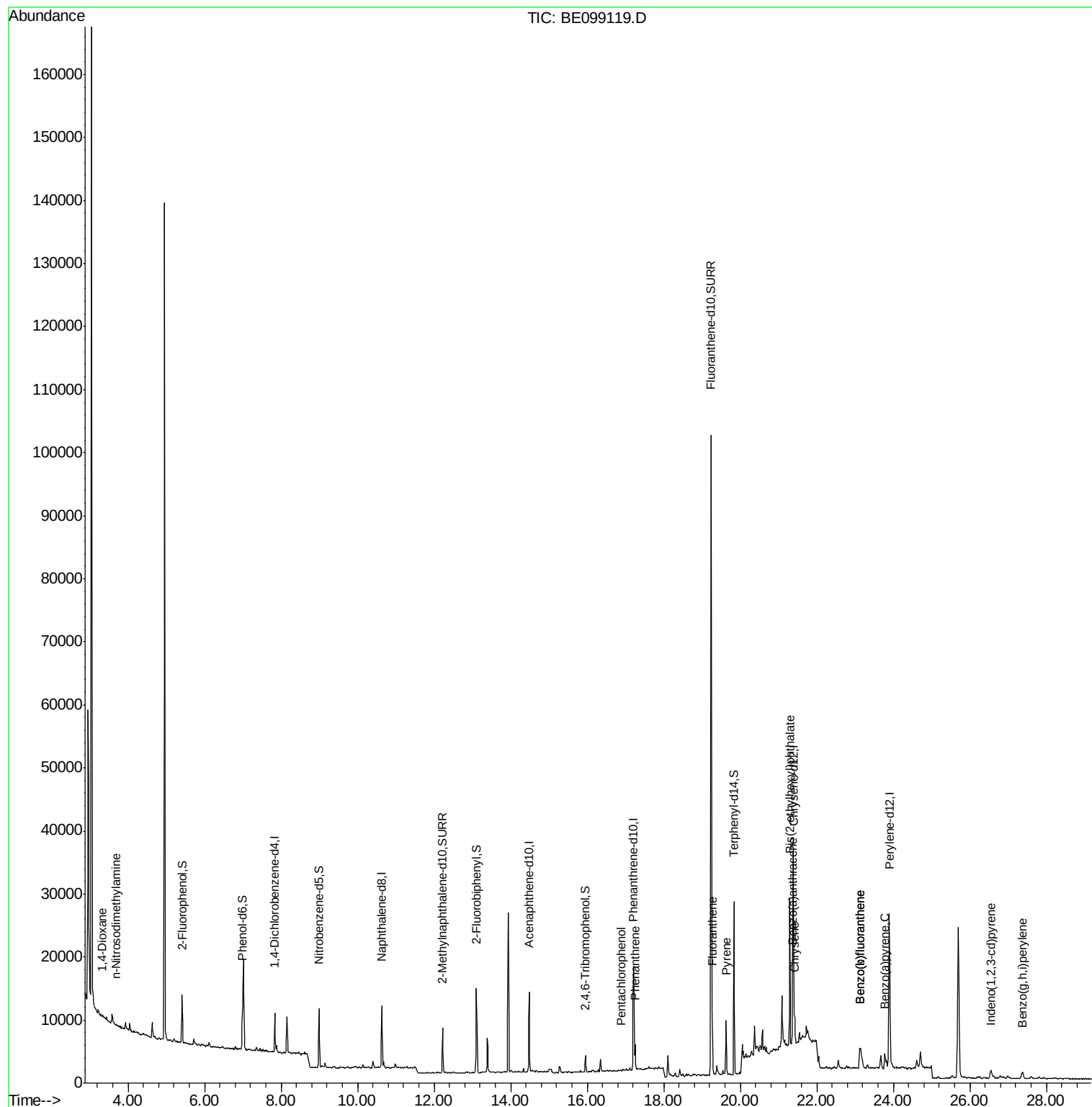
						Qvalue
2) 1,4-Dioxane	3.33	88	100	0.021	ng	# 1
3) n-Nitrosodimethylamine	3.69	42	85	0.034	ng	# 1
22) Pentachlorophenol	16.88	266	29	0.257	ng	95
23) Phenanthrene	17.26	178	4175	0.062	ng	97
26) Fluoranthene	19.27	202	7976	0.084	ng	# 94
28) Pyrene	19.63	202	7877	0.070	ng	# 95
30) Benzo(a)anthracene	21.37	228	4147	0.035	ng	# 88
31) Chrysene	21.43	228	4744	0.041	ng	# 89
32) Bis(2-ethylhexyl)phthalate	21.29	149	25181	0.166	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.55	276	2667	0.021	ng	# 89
35) Benzo(b)fluoranthene	23.12	252	5993	0.048	ng	# 70
36) Benzo(k)fluoranthene	23.12	252	5993	0.049	ng	# 73
37) Benzo(a)pyrene	23.78	252	3930	0.034	ng	# 66
39) Benzo(g,h,i)perylene	27.37	276	2687	0.024	ng	# 76

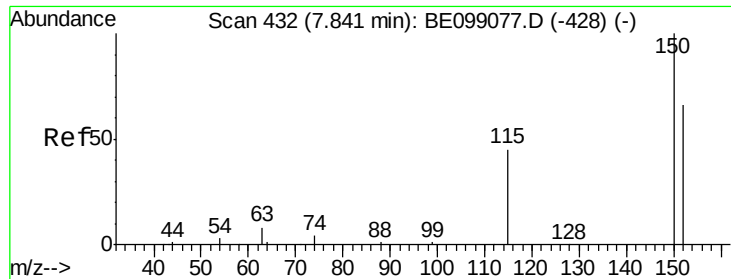
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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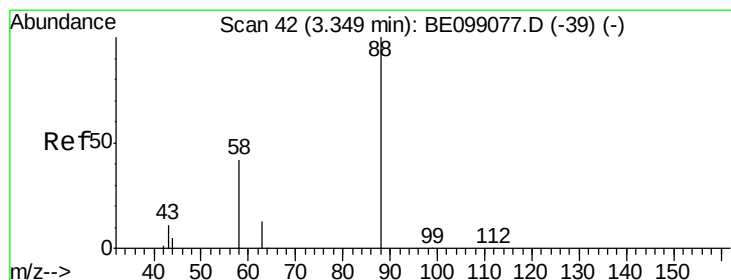
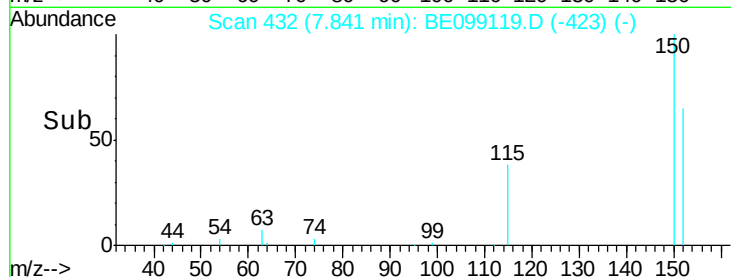
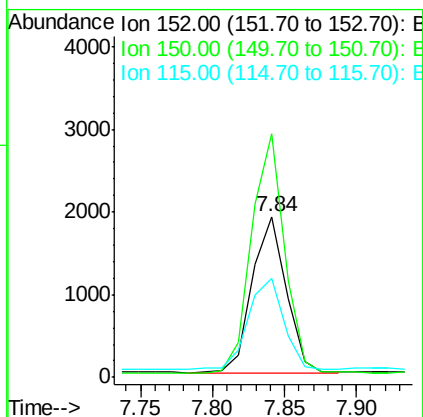
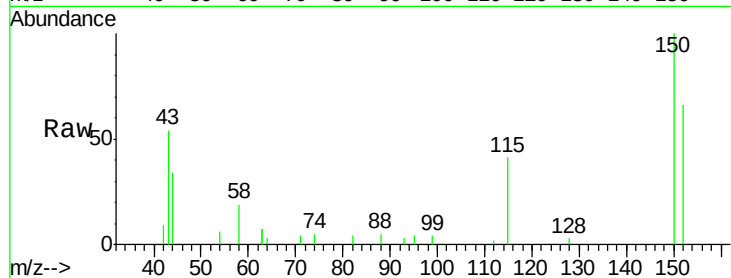


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. 0.00 min
Lab File: BE099119.D
Acq: 23 Mar 2019 19:32

Instrument :
BNA_E
ClientSampleId :
PST-026-SW077-031919

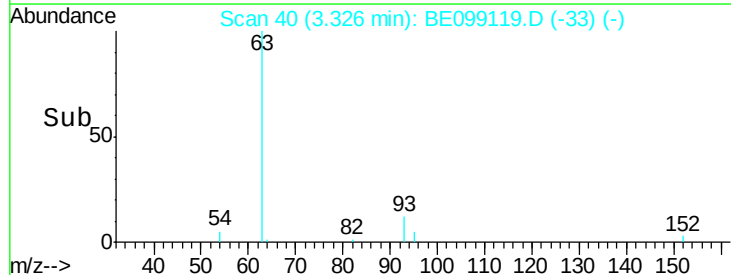
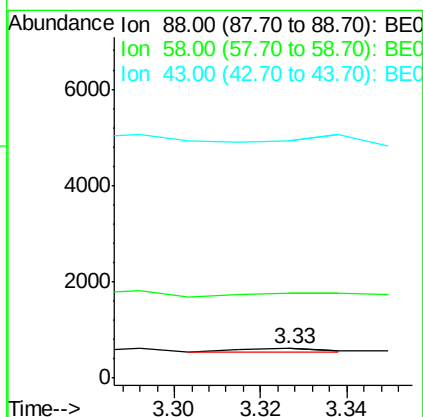
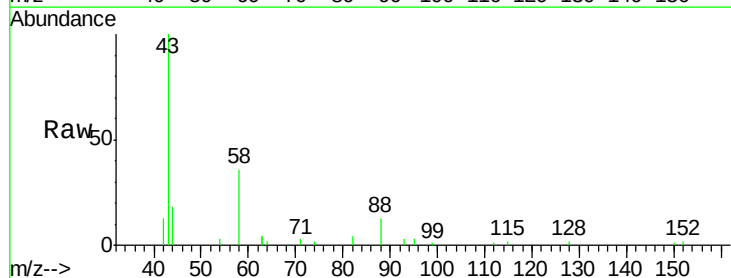
Tgt Ion: 152 Resp: 3098
Ion Ratio Lower Upper
152 100
150 151.3 122.5 183.7
115 61.6 57.4 86.2

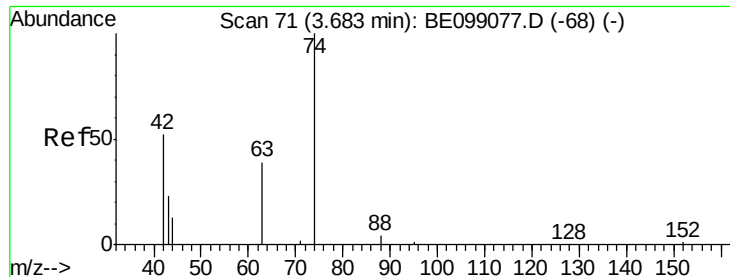


#2

1,4-Dioxane
Concen: 0.021 ng
RT: 3.33 min Scan# 40
Delta R.T. -0.02 min
Lab File: BE099119.D
Acq: 23 Mar 2019 19:32

Tgt Ion: 88 Resp: 100
Ion Ratio Lower Upper
88 100
58 320.0 52.0 78.0#
43 0.0 24.0 36.0#





#3

n-Nitrosodimethylamine

Concen: 0.034 ng

RT: 3.69 min Scan# 72

Delta R.T. 0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

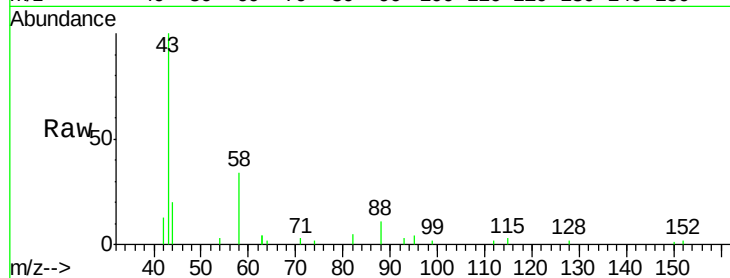
Tgt Ion: 42 Resp: 85

Ion Ratio Lower Upper

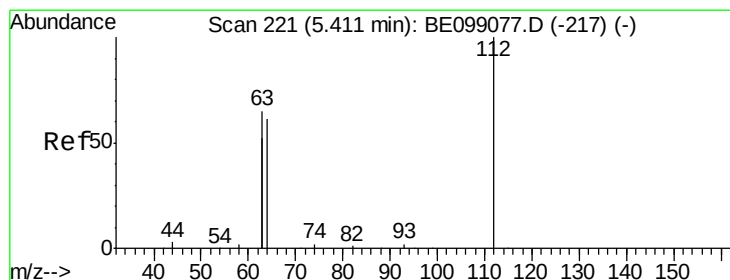
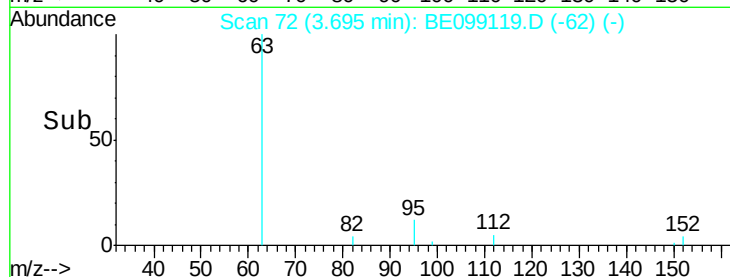
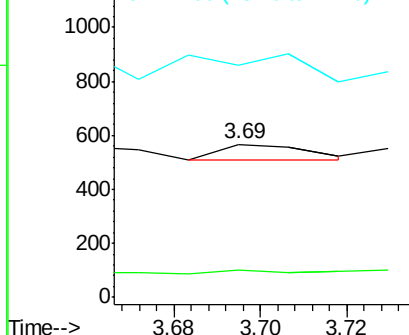
42 100

74 0.0 160.0 240.0#

44 196.5 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.440 ng

RT: 5.41 min Scan# 221

Delta R.T. 0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

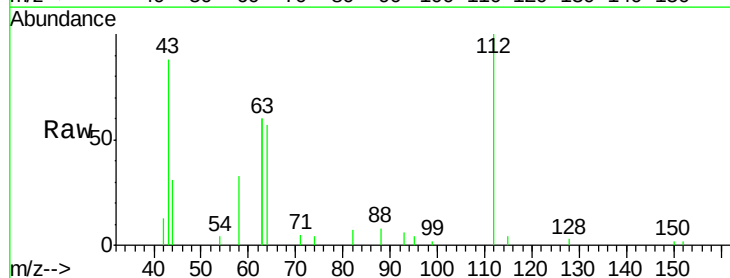
Tgt Ion: 112 Resp: 4059

Ion Ratio Lower Upper

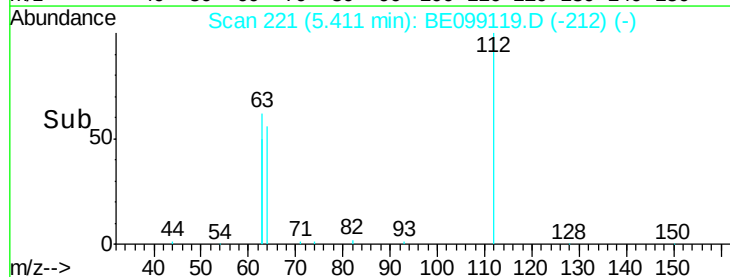
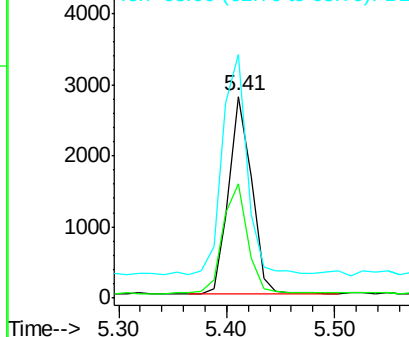
112 100

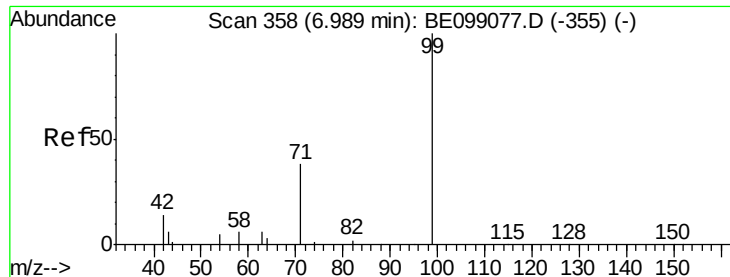
64 60.6 57.9 86.9

63 121.5 158.3 237.5#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.443 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

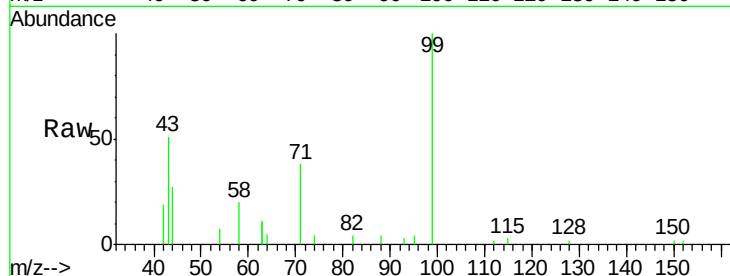
Tgt Ion: 99 Resp: 5889

Ion Ratio Lower Upper

99 100

42 24.6 24.2 36.2

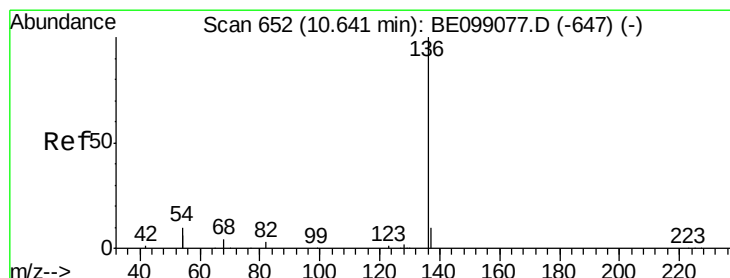
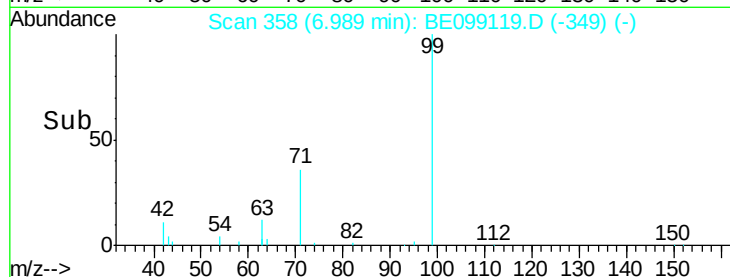
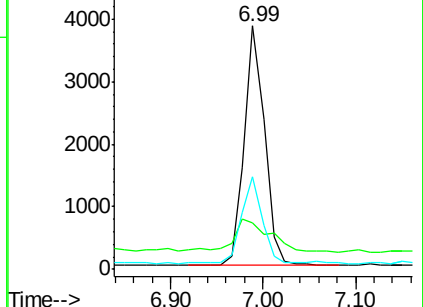
71 36.6 35.7 53.5



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Tgt Ion: 136 Resp: 11724

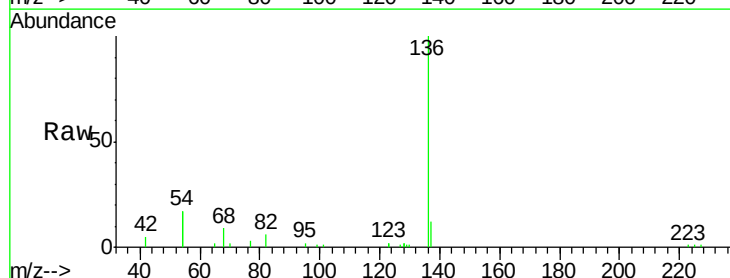
Ion Ratio Lower Upper

136 100

137 11.5 11.4 17.0

54 34.2 39.3 58.9#

68 8.8 6.7 10.1

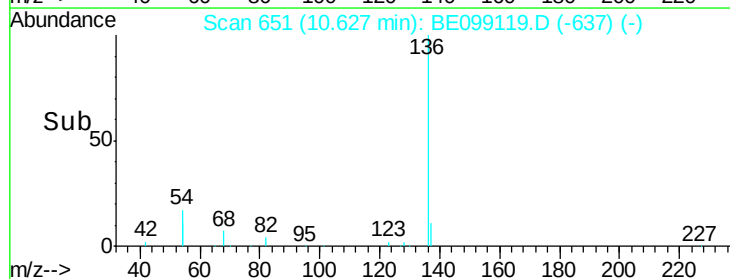
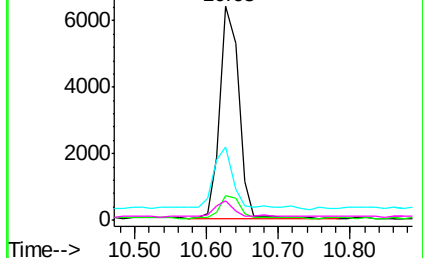


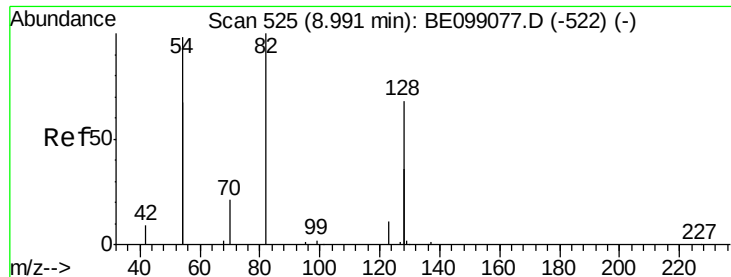
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.795 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

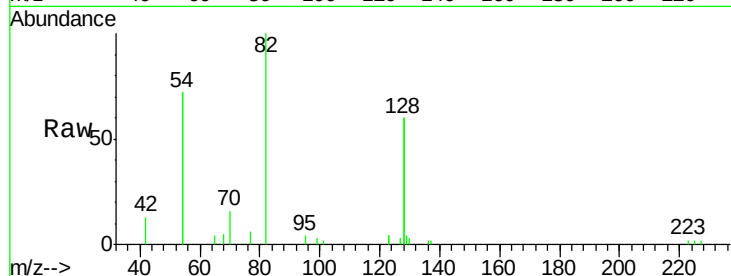
Tgt Ion: 82 Resp: 4073

Ion Ratio Lower Upper

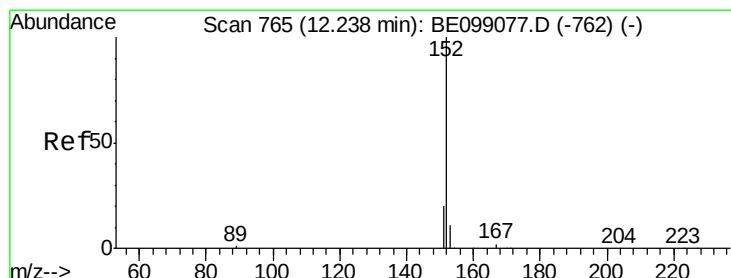
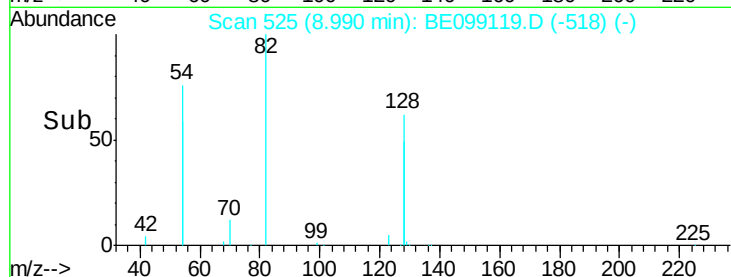
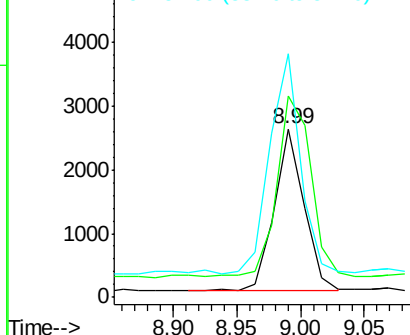
82 100

128 119.5 123.8 185.8#

54 144.5 203.4 305.2#



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.406 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.01 min

Lab File: BE099119.D

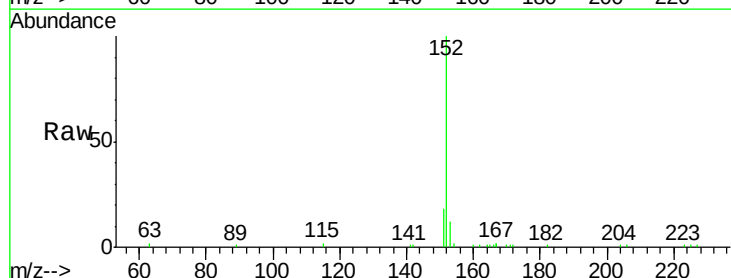
Acq: 23 Mar 2019 19:32

Tgt Ion: 152 Resp: 8583

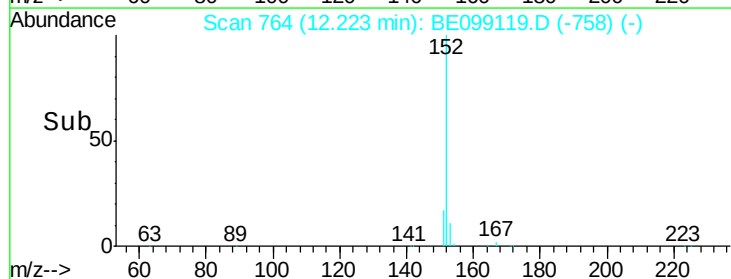
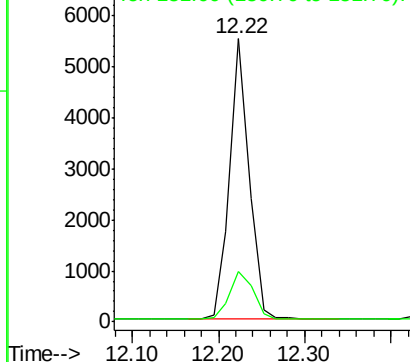
Ion Ratio Lower Upper

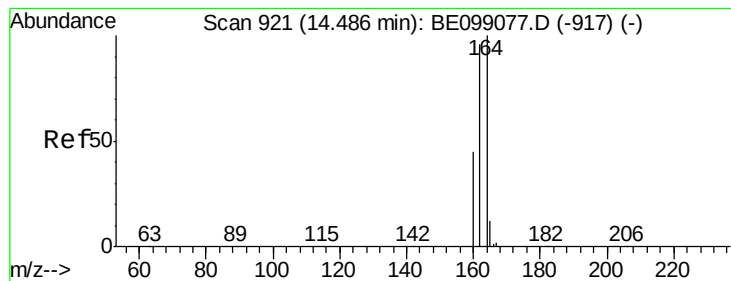
152 100

151 20.3 16.5 24.7



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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.49 min Scan# 921

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

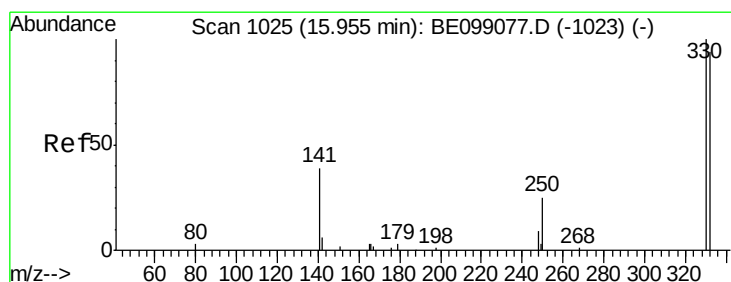
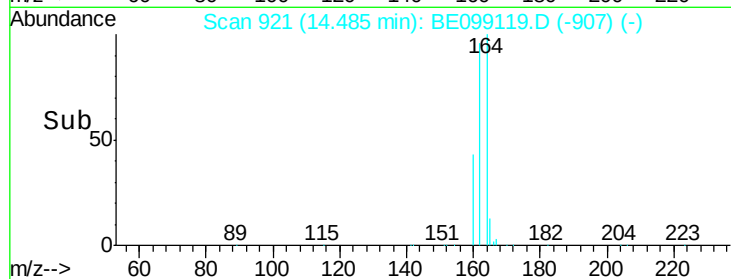
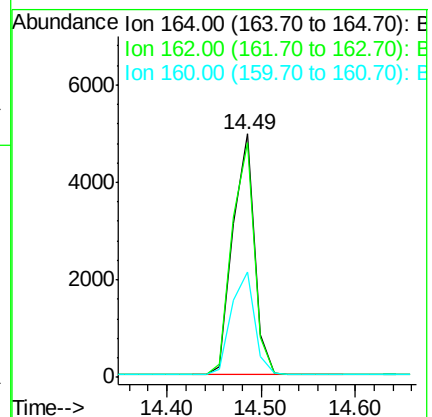
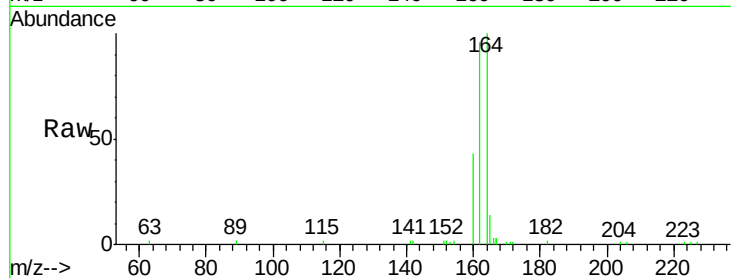
Tgt Ion:164 Resp: 7835

Ion Ratio Lower Upper

164 100

162 96.5 80.2 120.2

160 43.2 37.8 56.8



#14

2,4,6-Tribromophenol

Concen: 0.651 ng

RT: 15.96 min Scan# 1025

Delta R.T. 0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

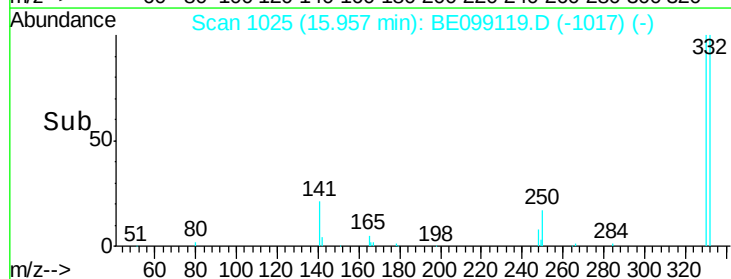
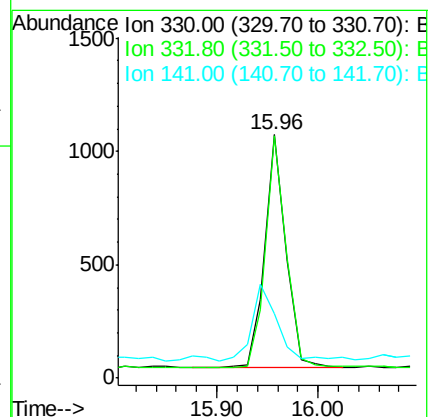
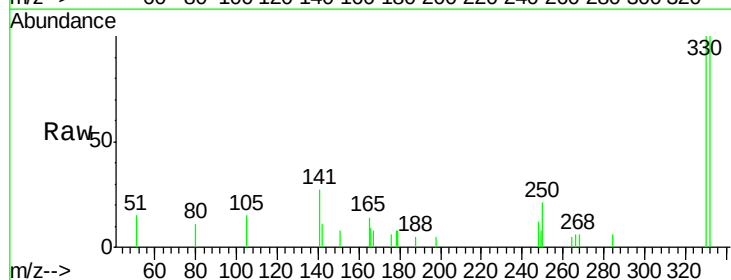
Tgt Ion:330 Resp: 1499

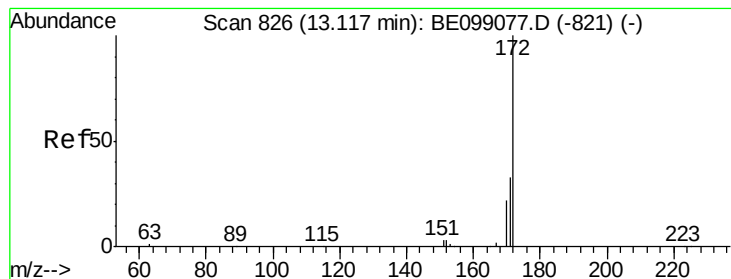
Ion Ratio Lower Upper

330 100

332 98.9 77.6 116.4

141 39.7 31.0 46.4





#15

2-Fluorobiphenyl

Concen: 0.395 ng

RT: 13.10 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

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ClientSampleId :

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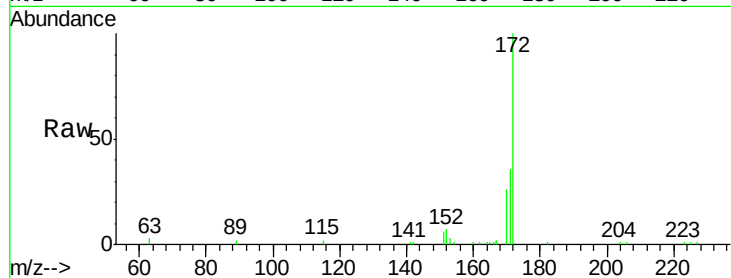
Tgt Ion:172 Resp: 12298

Ion Ratio Lower Upper

172 100

171 36.2 28.0 42.0

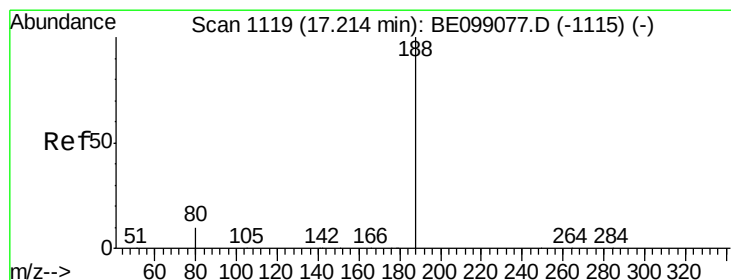
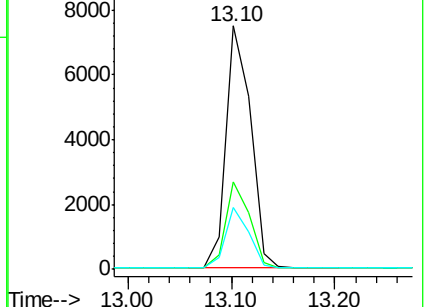
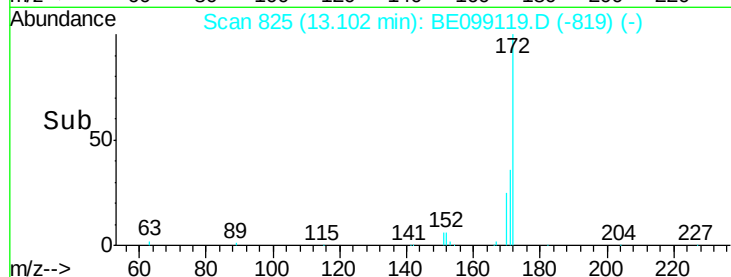
170 25.6 17.7 26.5



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. 0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

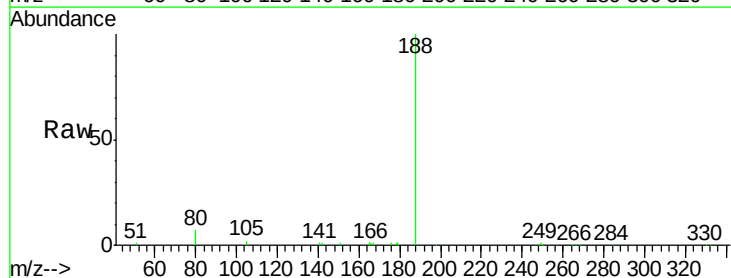
Tgt Ion:188 Resp: 22827

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

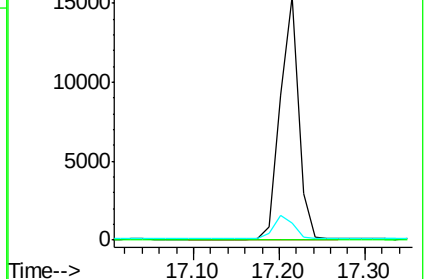
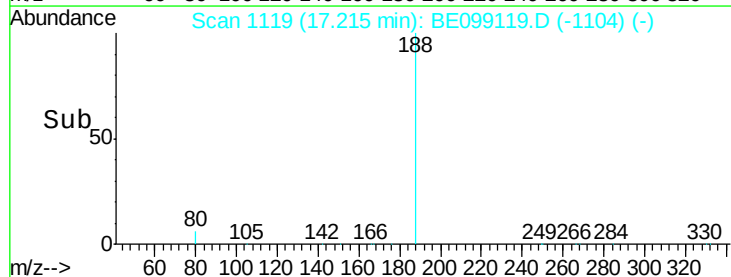
80 6.8 6.3 9.5

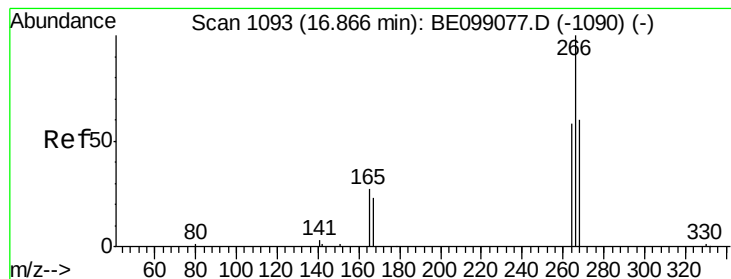


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.257 ng

RT: 16.88 min Scan# 1094

Delta R.T. 0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

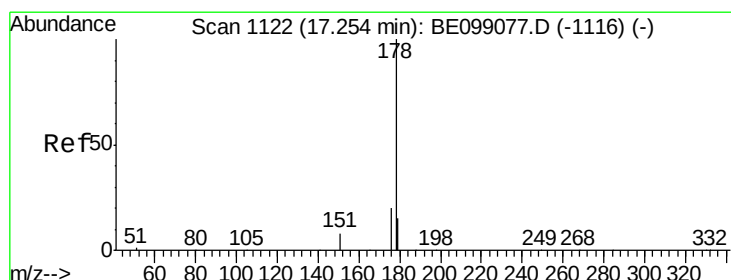
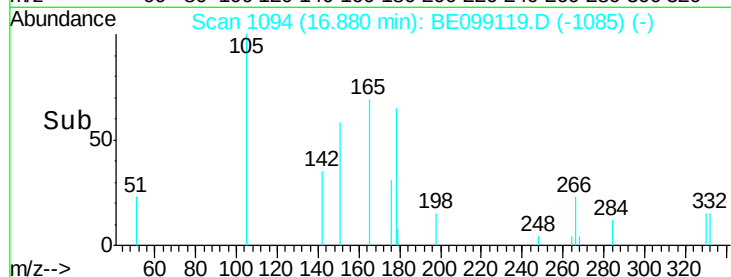
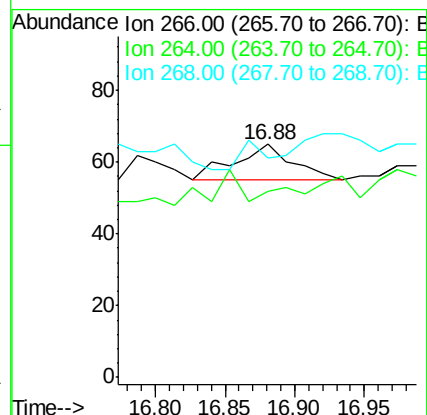
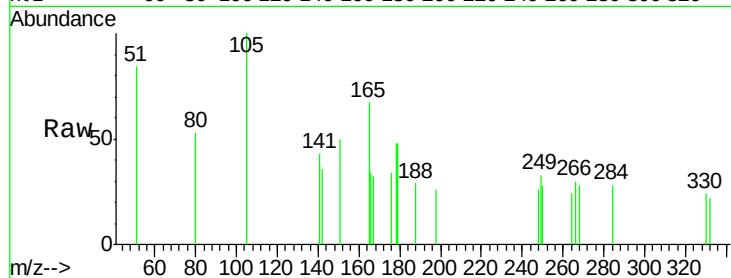
Tgt Ion: 266 Resp: 29

Ion Ratio Lower Upper

266 100

264 80.0 66.6 100.0

268 93.8 69.8 104.8



#23

Phenanthrene

Concen: 0.062 ng

RT: 17.26 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

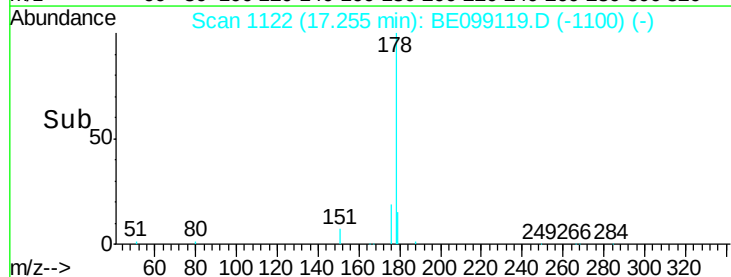
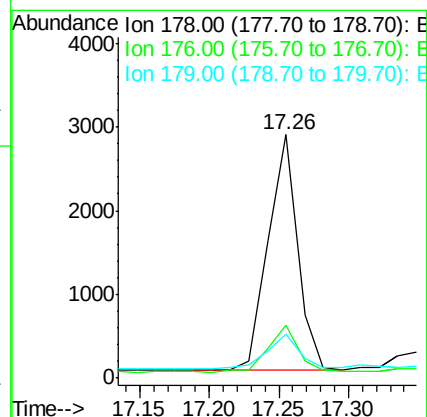
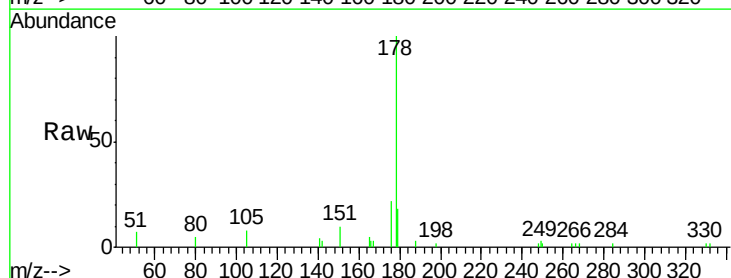
Tgt Ion: 178 Resp: 4175

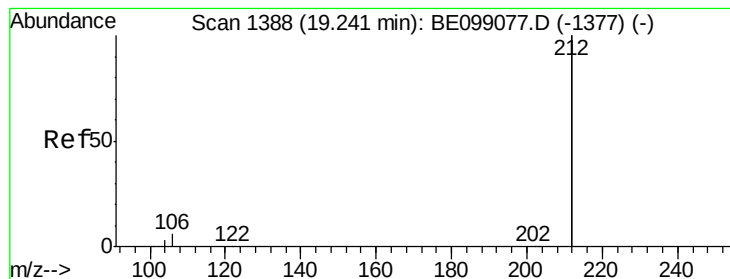
Ion Ratio Lower Upper

178 100

176 20.4 16.0 24.0

179 17.7 12.1 18.1





#25

Fluoranthene-d10

Concen: 0.440 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

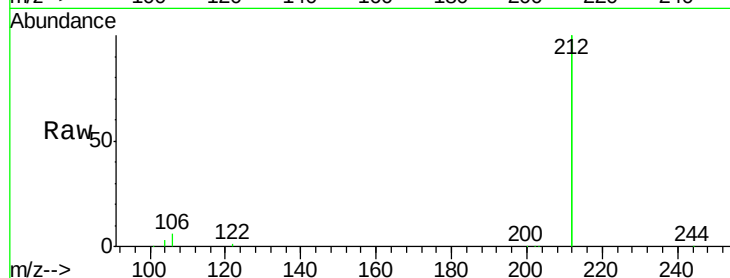
Tgt Ion:212 Resp: 133961

Ion Ratio Lower Upper

212 100

106 2.7 1.8 2.8

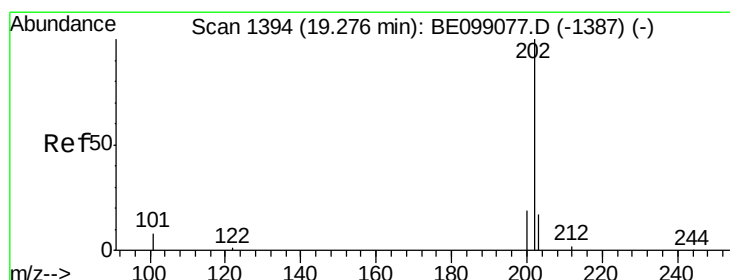
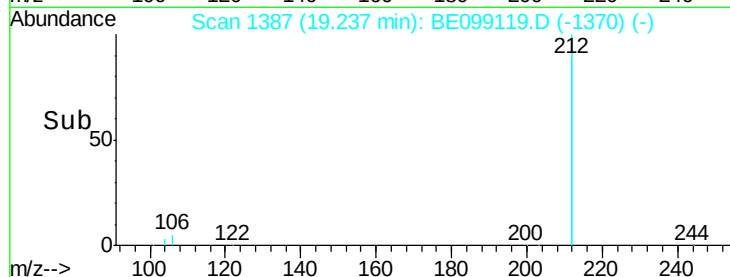
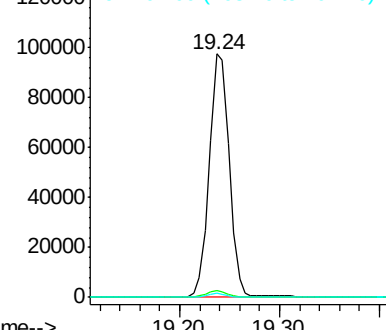
104 1.5 1.0 1.6



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: 0.084 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

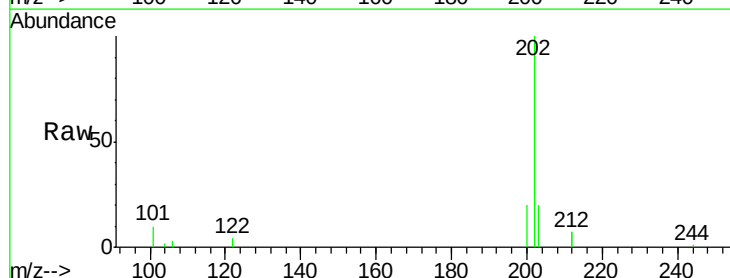
Tgt Ion:202 Resp: 7976

Ion Ratio Lower Upper

202 100

101 11.2 7.3 10.9#

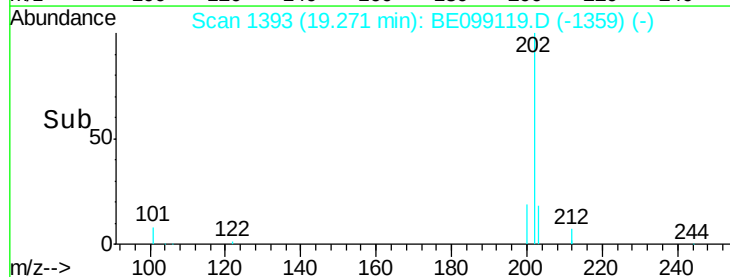
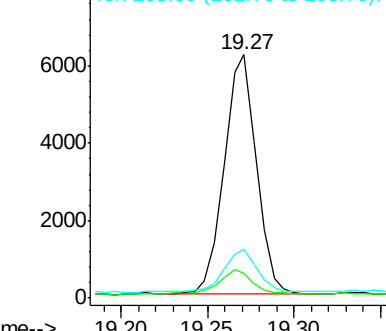
203 19.2 13.4 20.2

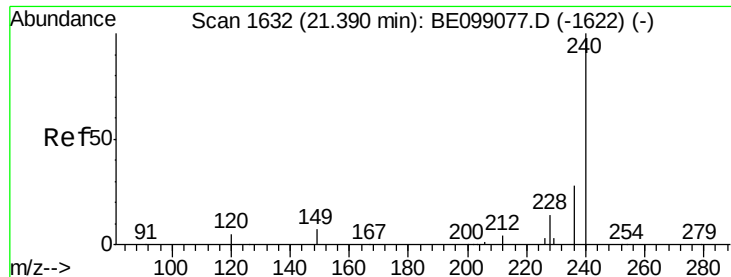


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.39 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

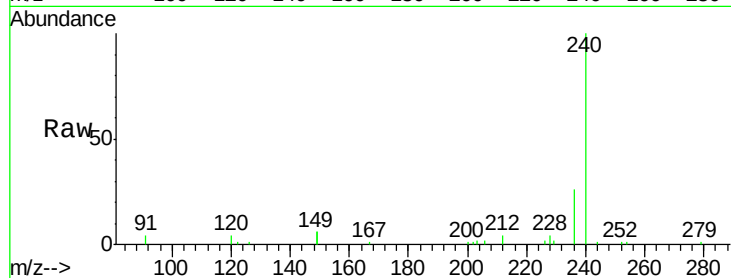
Tgt Ion:240 Resp: 33229

Ion Ratio Lower Upper

240 100

120 4.0 5.0 7.4#

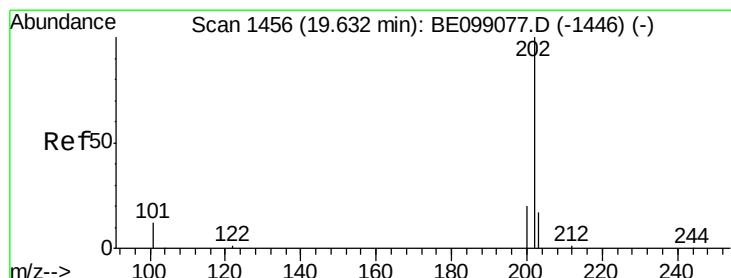
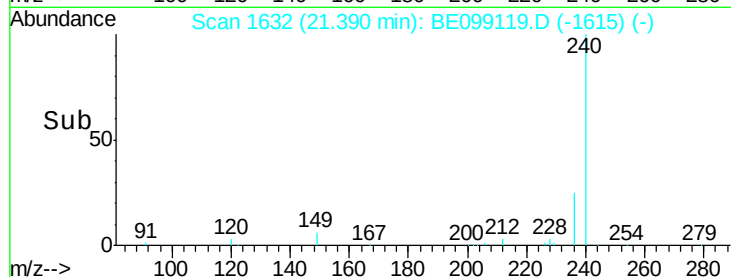
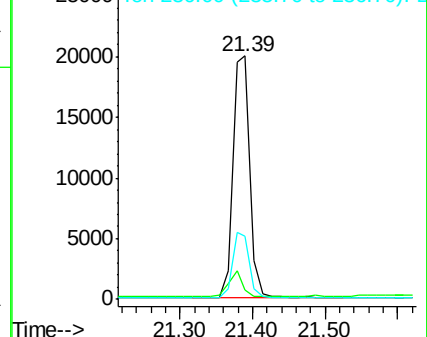
236 25.9 22.7 34.1



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: 0.070 ng

RT: 19.63 min Scan# 1455

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

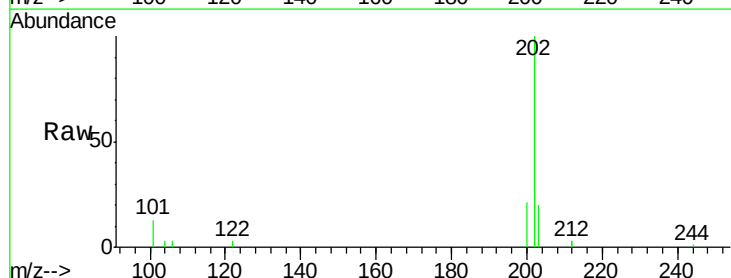
Tgt Ion:202 Resp: 7877

Ion Ratio Lower Upper

202 100

200 20.2 17.0 25.6

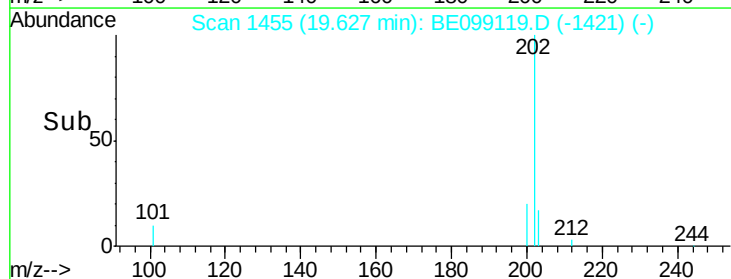
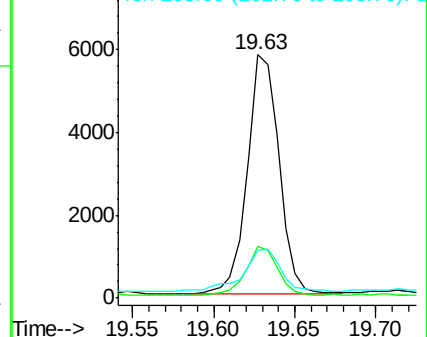
203 21.3 14.2 21.2#

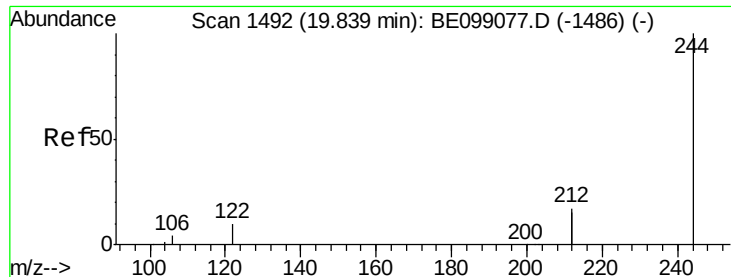


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.326 ng

RT: 19.83 min Scan# 1491

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

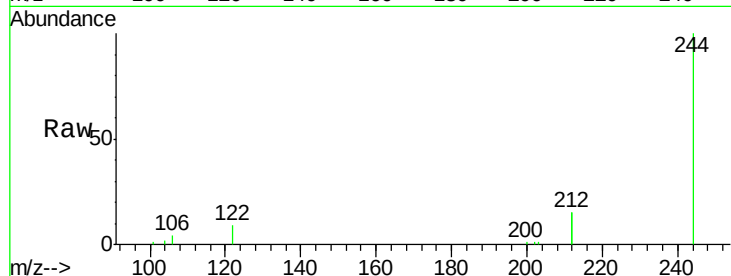
Tgt Ion:244 Resp: 22899

Ion Ratio Lower Upper

244 100

212 31.0 29.4 44.2

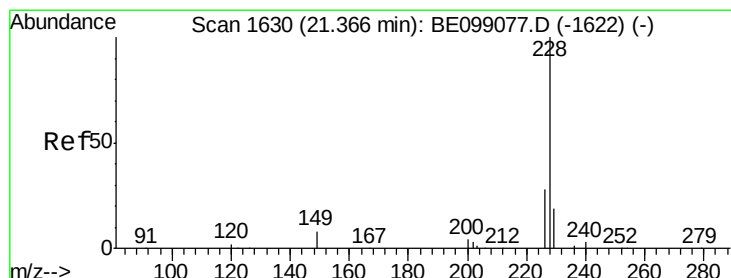
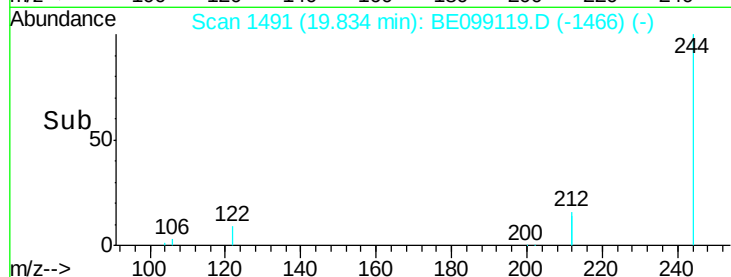
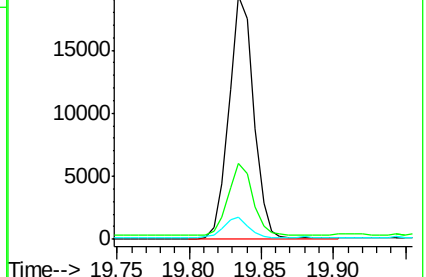
122 9.3 7.1 10.7



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: 0.035 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

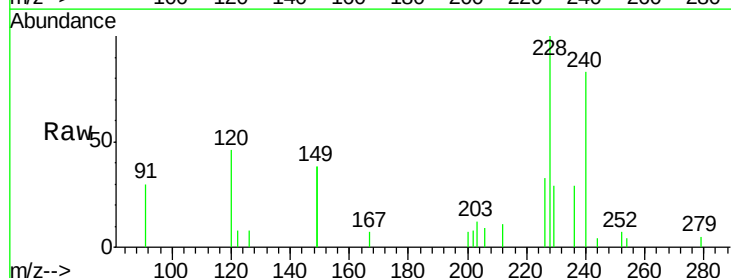
Tgt Ion:228 Resp: 4147

Ion Ratio Lower Upper

228 100

226 33.2 23.0 34.4

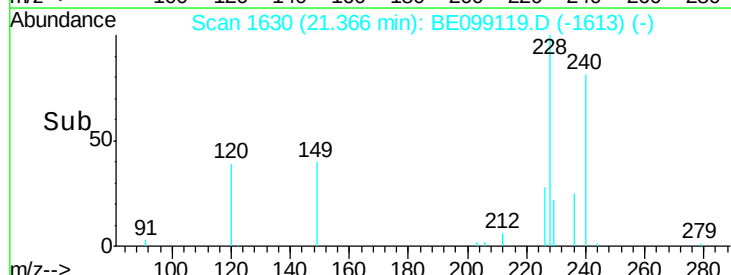
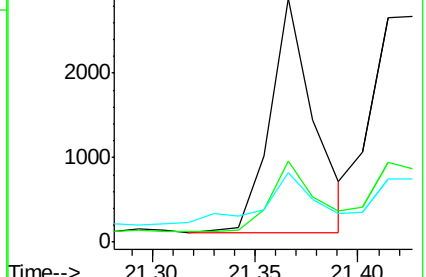
229 28.8 16.5 24.7#

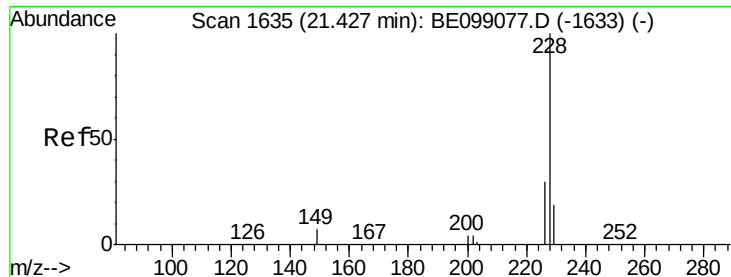


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.041 ng

RT: 21.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

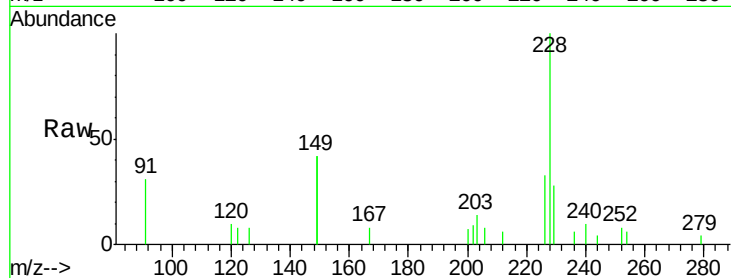
Tgt Ion:228 Resp: 4744

Ion Ratio Lower Upper

228 100

226 32.7 23.7 35.5

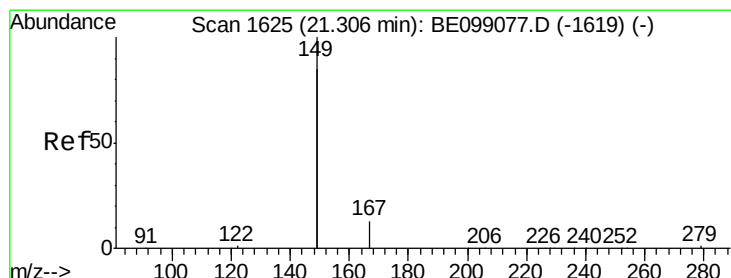
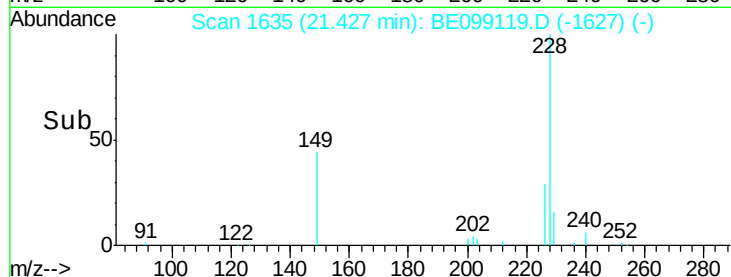
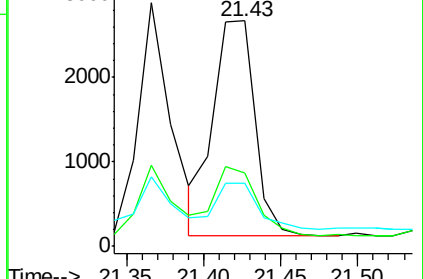
229 28.2 16.1 24.1#



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: 0.166 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

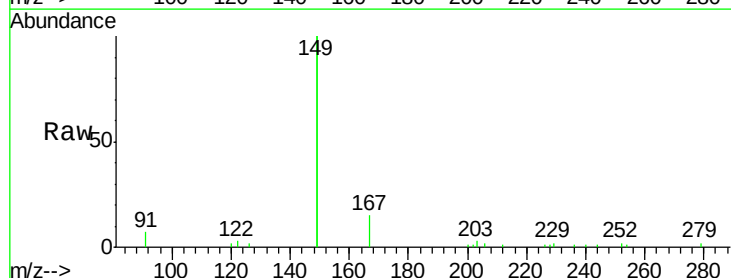
Tgt Ion:149 Resp: 25181

Ion Ratio Lower Upper

149 100

167 7.3 5.4 8.0

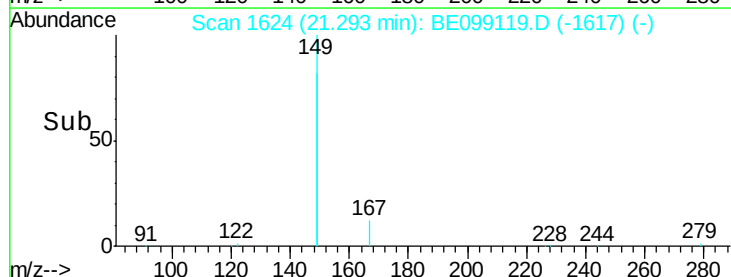
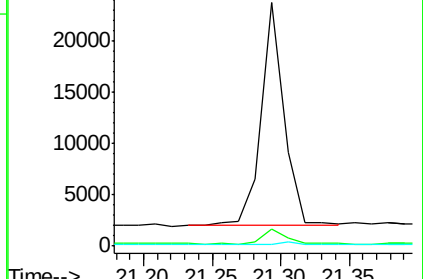
279 1.5 1.0 1.4#

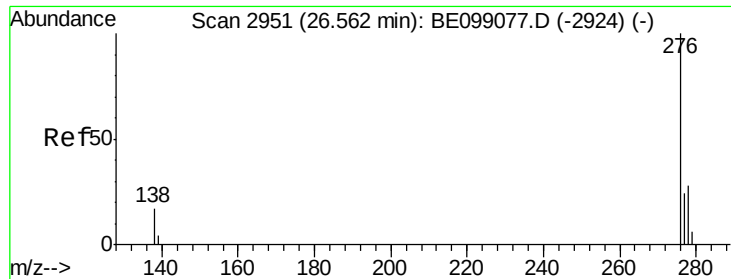


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.021 ng

RT: 26.55 min Scan# 2946

Delta R.T. -0.02 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

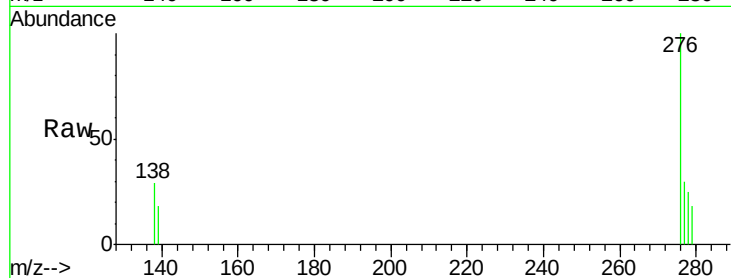
Tgt Ion:276 Resp: 2667

Ion Ratio Lower Upper

276 100

138 8.0 13.8 20.8#

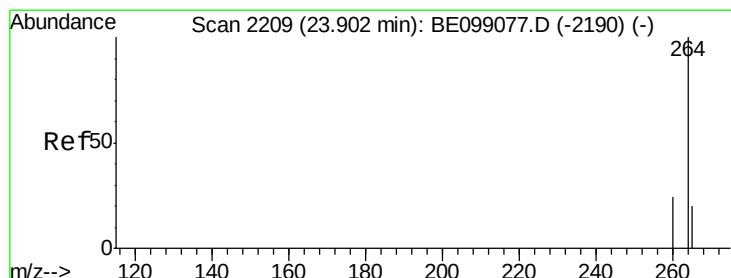
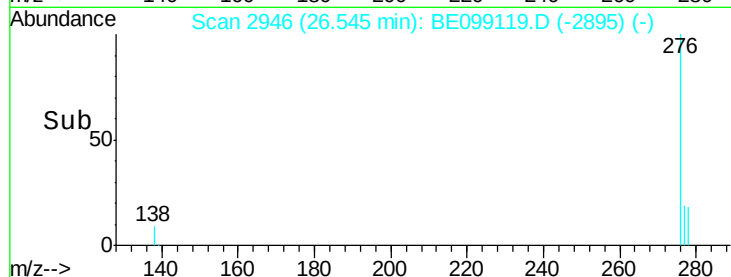
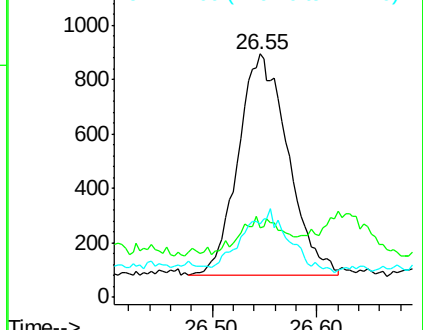
277 26.7 19.5 29.3



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: 23.90 min Scan# 2208

Delta R.T. -0.00 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

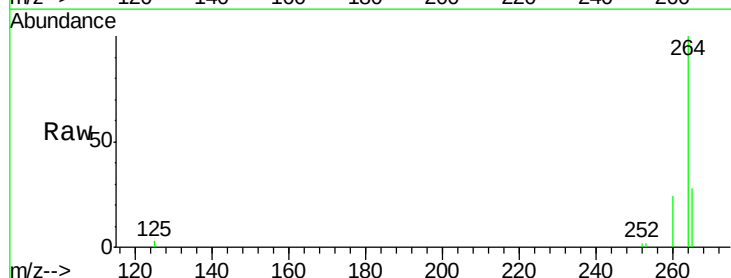
Tgt Ion:264 Resp: 35786

Ion Ratio Lower Upper

264 100

260 23.6 21.2 31.8

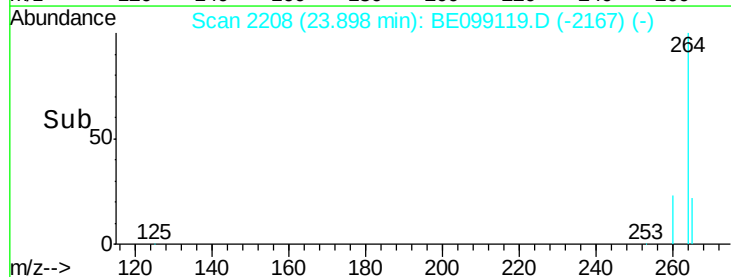
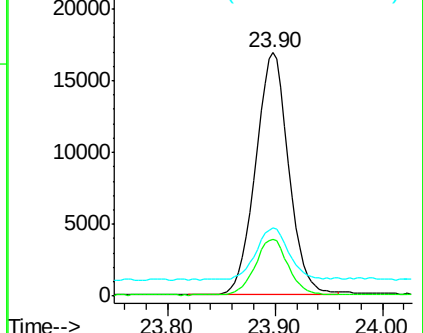
265 28.1 24.6 36.8

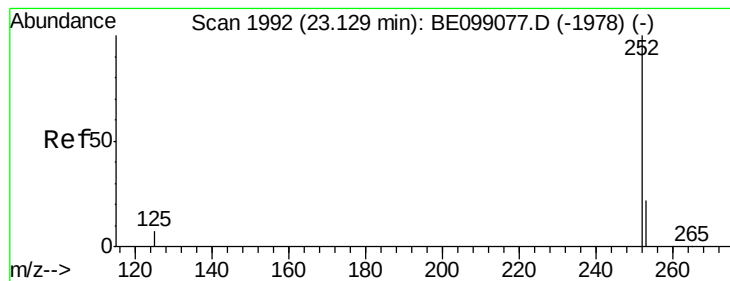


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.048 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

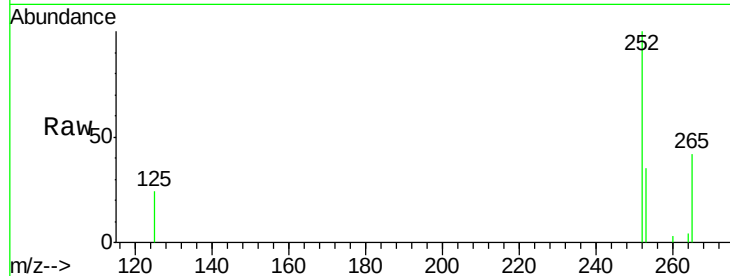
Tgt Ion: 252 Resp: 5993

Ion Ratio Lower Upper

252 100

253 35.0 18.2 27.2#

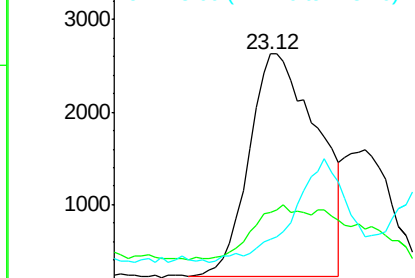
125 24.0 7.3 10.9#



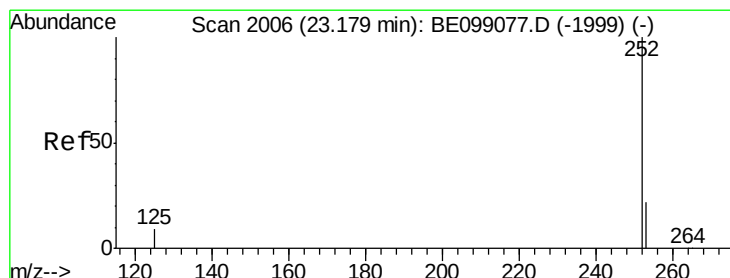
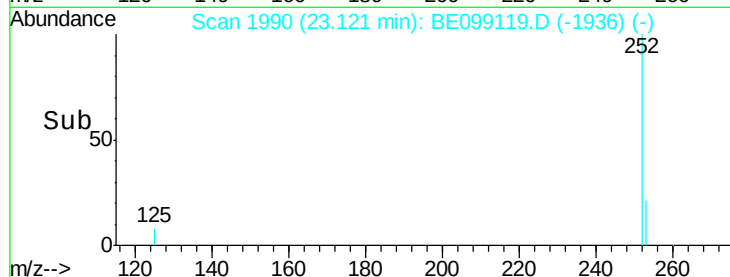
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time--> 23.05 23.10 23.15



#36

Benzo(k)fluoranthene

Concen: 0.049 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.06 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

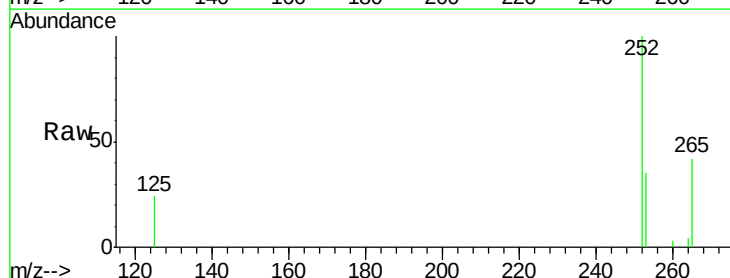
Tgt Ion: 252 Resp: 5993

Ion Ratio Lower Upper

252 100

253 35.0 19.3 28.9#

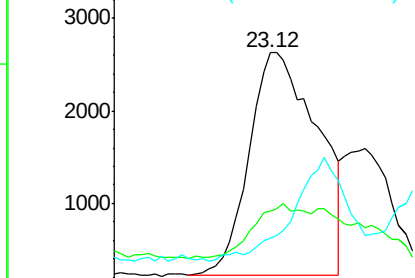
125 24.0 7.5 11.3#



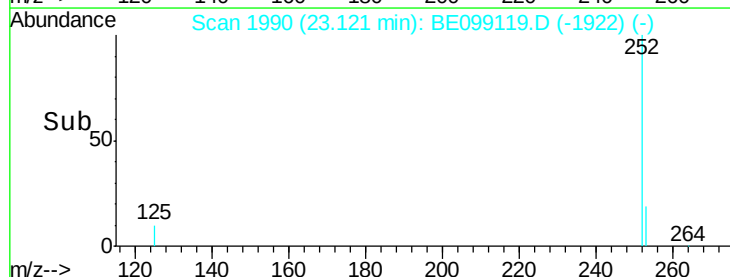
Abundance Ion 252.00 (251.70 to 252.70): E

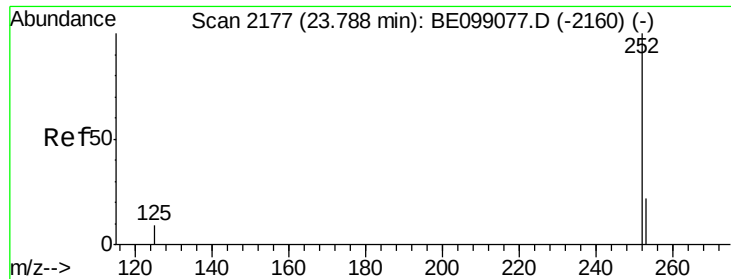
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time--> 23.05 23.10 23.15





#37

Benzo(a)pyrene

Concen: 0.034 ng

RT: 23.78 min Scan# 2175

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Instrument :

BNA_E

ClientSampleId :

PST-026-SW077-031919

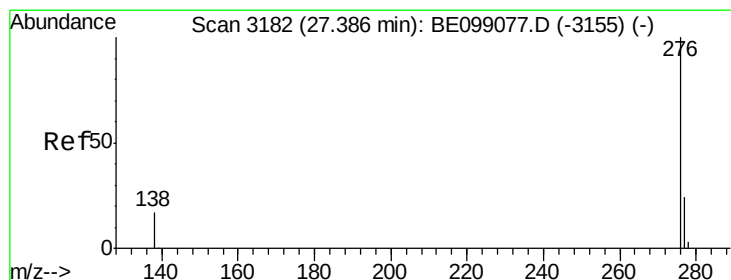
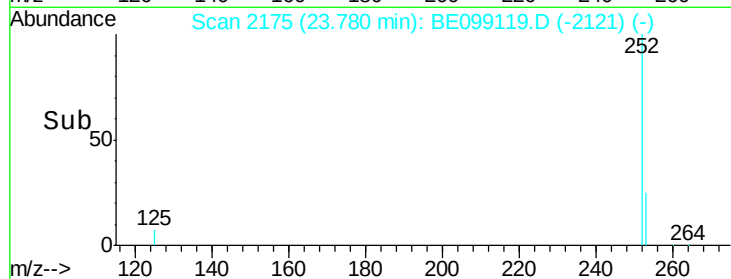
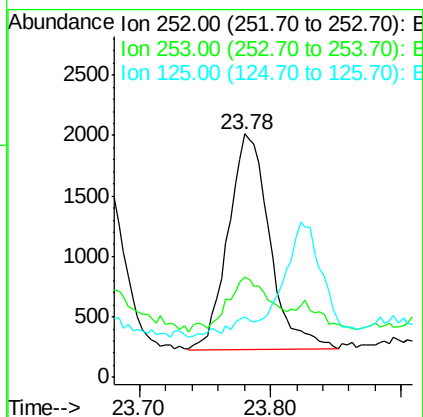
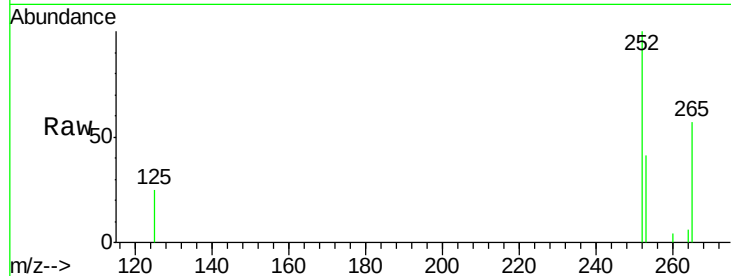
Tgt Ion:252 Resp: 3930

Ion Ratio Lower Upper

252 100

253 41.5 19.9 29.9#

125 25.0 9.0 13.4#



#39

Benzo(g,h,i)perylene

Concen: 0.024 ng

RT: 27.37 min Scan# 3178

Delta R.T. -0.01 min

Lab File: BE099119.D

Acq: 23 Mar 2019 19:32

Tgt Ion:276 Resp: 2687

Ion Ratio Lower Upper

276 100

277 31.1 20.4 30.6#

138 35.4 13.6 20.4#

