

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032319\
 Data File : BE099105.D
 Acq On : 23 Mar 2019 10:44
 Operator : JU/SJ
 Sample : K1947-10
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-025-B127-031319

Quant Time: Mar 23 22:35:10 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	3274	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	12262	0.40	ng	0.00
13) Acenaphthene-d10	14.48	164	8140	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	23483	0.40	ng	0.00
27) Chrysene-d12	21.39	240	35375	0.40	ng	0.00
34) Perylene-d12	23.90	264	38540	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	4007	0.41	ng	0.00
5) Phenol-d6	6.99	99	6129	0.44	ng	0.00
8) Nitrobenzene-d5	8.99	82	3640	0.68	ng	-0.01
11) 2-Methylnaphthalene-d10	12.22	152	7339	0.33	ng	-0.02
14) 2,4,6-Tribromophenol	15.96	330	1589	0.66	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	12756	0.39	ng	-0.02
25) Fluoranthene-d10	19.24	212	101089	0.32	ng	0.00
29) Terphenyl-d14	19.83	244	24854	0.33	ng	0.00

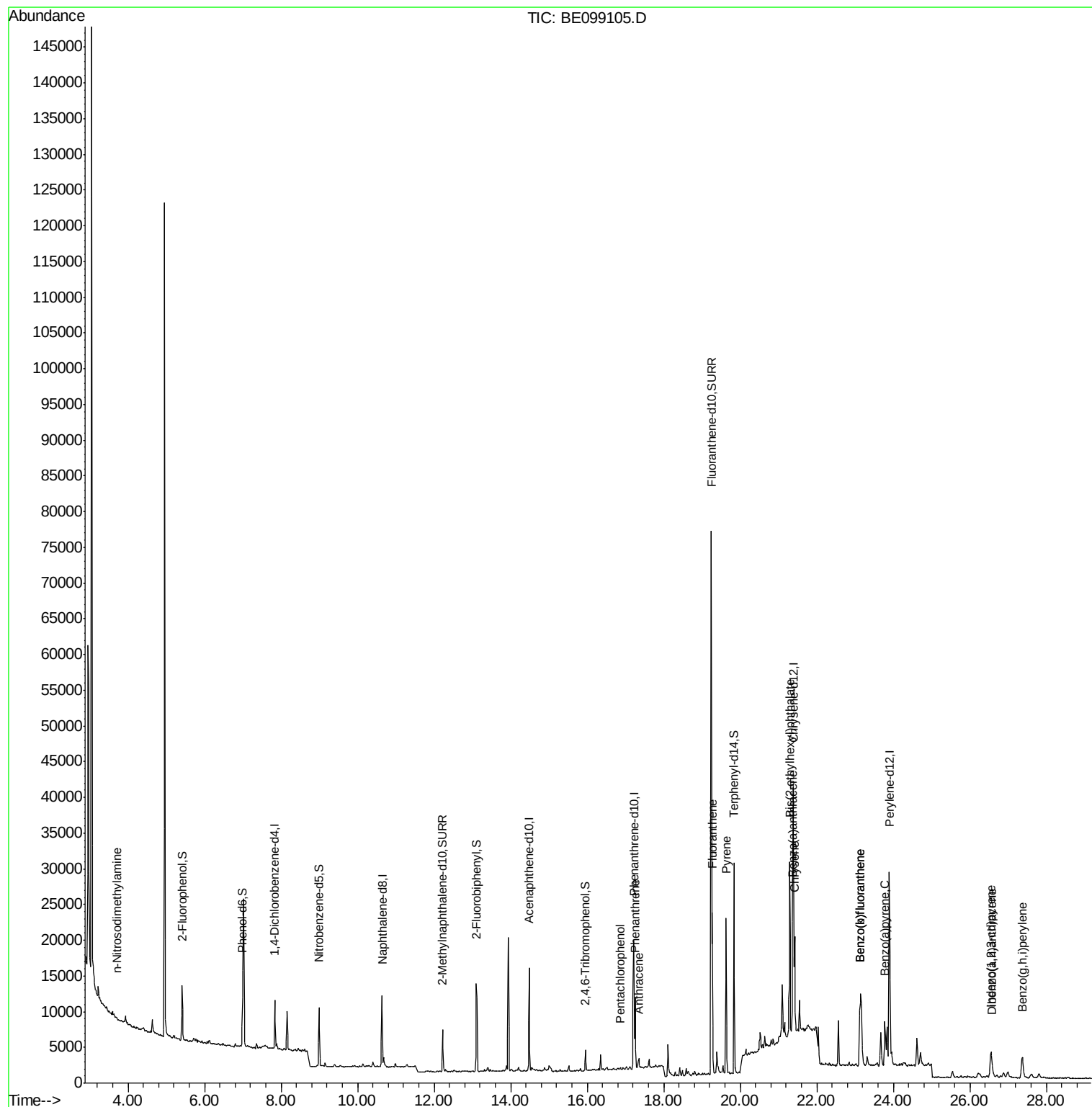
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.70	42	66	0.025	ng	# 1
22) Pentachlorophenol	16.85	266	133	0.278	ng	86
23) Phenanthrene	17.25	178	9776	0.140	ng	96
24) Anthracene	17.35	178	1693	0.026	ng	# 94
26) Fluoranthene	19.27	202	19879	0.203	ng	97
28) Pyrene	19.63	202	20466	0.171	ng	95
30) Benzo(a)anthracene	21.37	228	11801	0.095	ng	99
31) Chrysene	21.43	228	13054	0.105	ng	96
32) Bis(2-ethylhexyl)phthalate	21.29	149	34779	0.215	ng	98
33) Indeno(1,2,3-cd)pyrene	26.55	276	7403	0.055	ng	# 90
35) Benzo(b)fluoranthene	23.12	252	15434	0.116	ng	# 85
36) Benzo(k)fluoranthene	23.12	252	15434	0.118	ng	# 88
37) Benzo(a)pyrene	23.78	252	10943	0.089	ng	# 91
38) Dibenzo(a,h)anthracene	26.58	278	2571	0.021	ng	# 61
39) Benzo(g,h,i)perylene	27.37	276	7405	0.060	ng	97

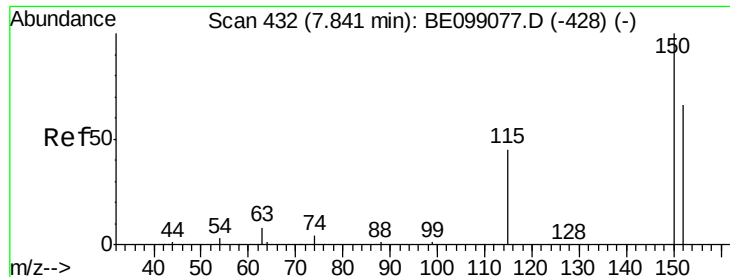
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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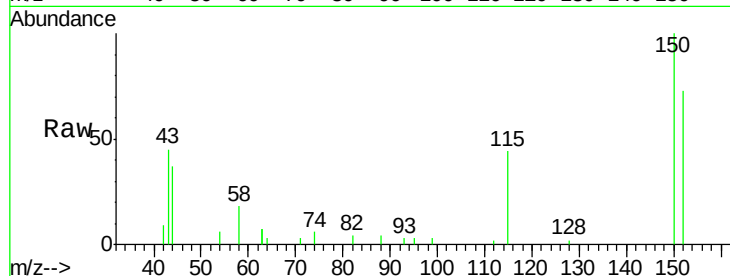


#1

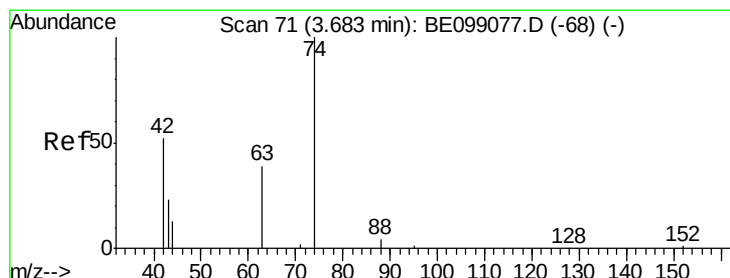
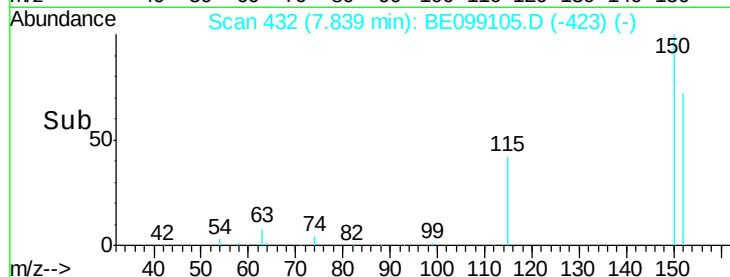
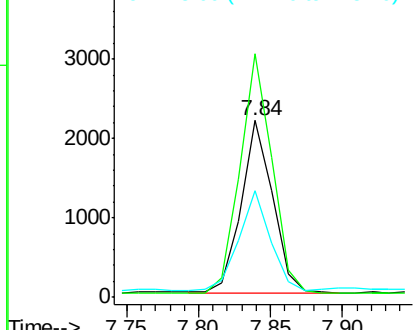
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. -0.00 min
Lab File: BE099105.D
Acq: 23 Mar 2019 10:44

Instrument :
BNA_E
ClientSampleId :
PST-025-B127-031319

Tgt Ion:152 Resp: 3274
Ion Ratio Lower Upper
152 100
150 137.6 122.5 183.7
115 60.6 57.4 86.2



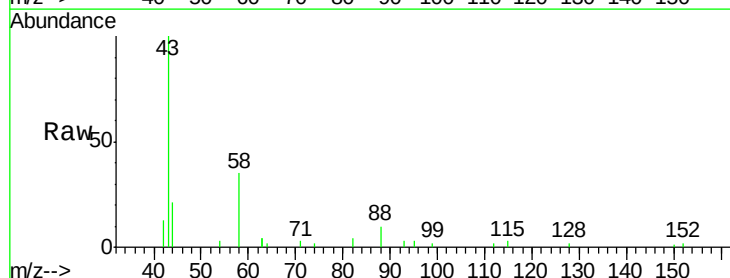
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



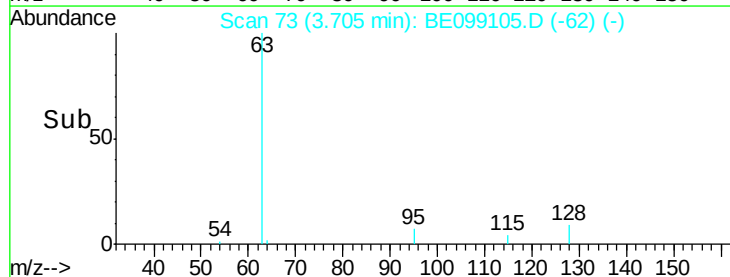
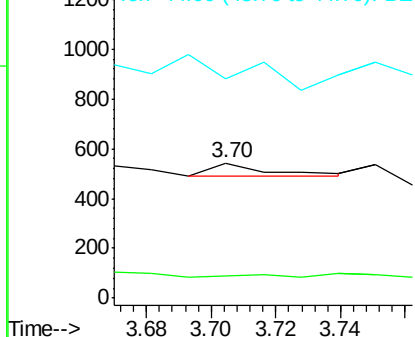
#3

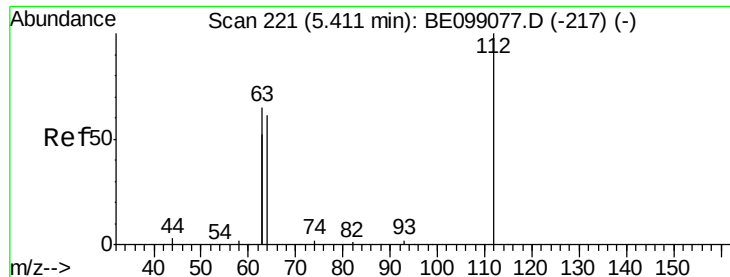
n-Nitrosodimethylamine
Concen: 0.025 ng
RT: 3.70 min Scan# 73
Delta R.T. 0.02 min
Lab File: BE099105.D
Acq: 23 Mar 2019 10:44

Tgt Ion: 42 Resp: 66
Ion Ratio Lower Upper
42 100
74 15.2 160.0 240.0#
44 0.0 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: 0.411 ng

RT: 5.41 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

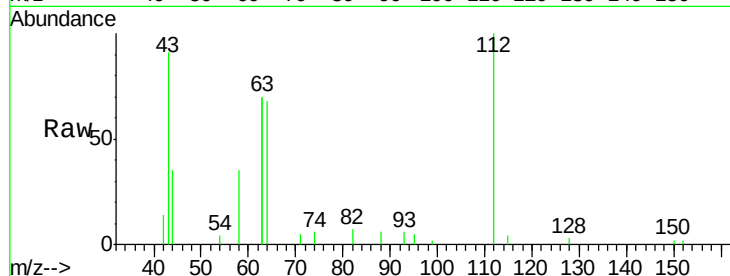
Tgt Ion: 112 Resp: 4007

Ion Ratio Lower Upper

112 100

64 60.1 57.9 86.9

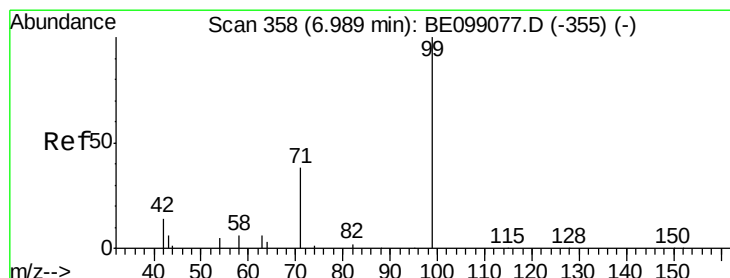
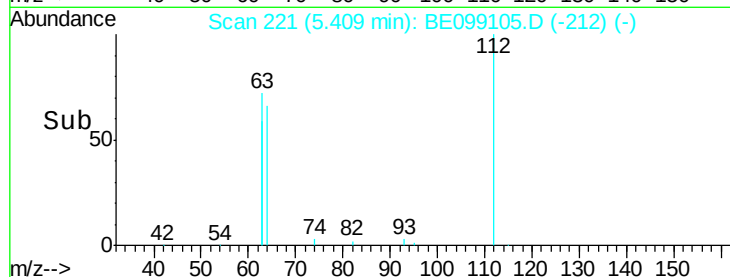
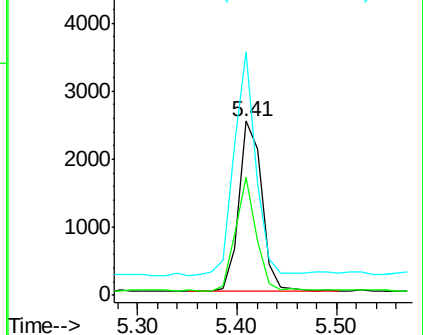
63 123.2 158.3 237.5#



Abundance Ion 112.00 (111.70 to 112.70): BE099077.D (-217) (-)

Ion 64.00 (63.70 to 64.70): BE099077.D (-217) (-)

Ion 63.00 (62.70 to 63.70): BE099077.D (-217) (-)



#5

Phenol-d6

Concen: 0.437 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

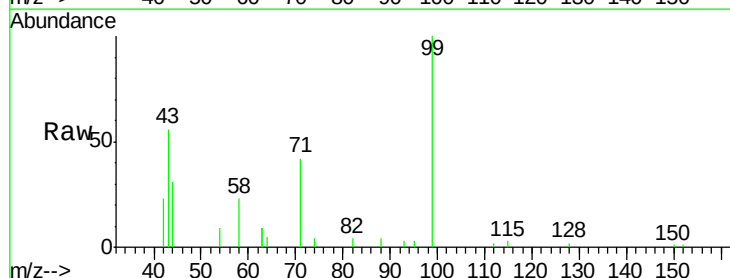
Tgt Ion: 99 Resp: 6129

Ion Ratio Lower Upper

99 100

42 25.9 24.2 36.2

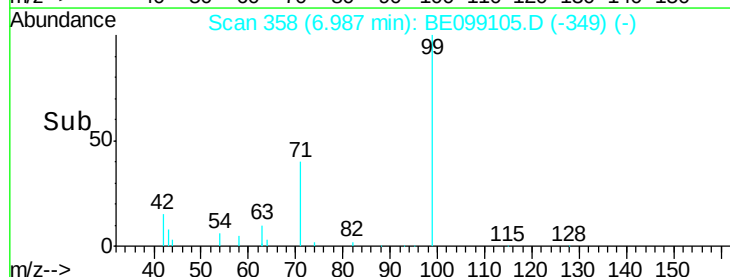
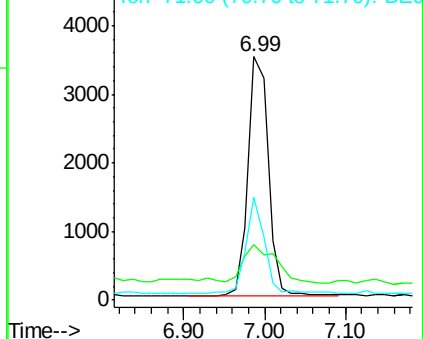
71 37.1 35.7 53.5

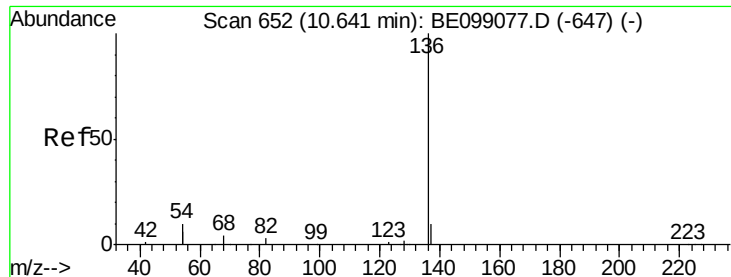


Abundance Ion 99.00 (98.70 to 99.70): BE099077.D (-355) (-)

Ion 42.00 (41.70 to 42.70): BE099077.D (-355) (-)

Ion 71.00 (70.70 to 71.70): BE099077.D (-355) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

Tgt Ion:136 Resp: 12262

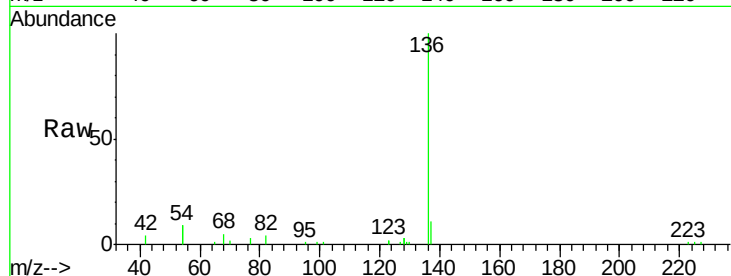
Ion Ratio Lower Upper

136 100

137 11.4 11.4 17.0

54 18.1 39.3 58.9#

68 5.4 6.7 10.1#

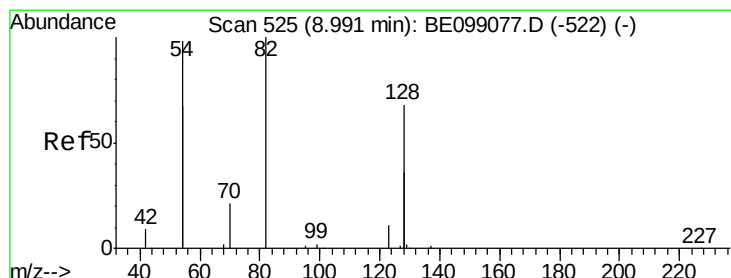
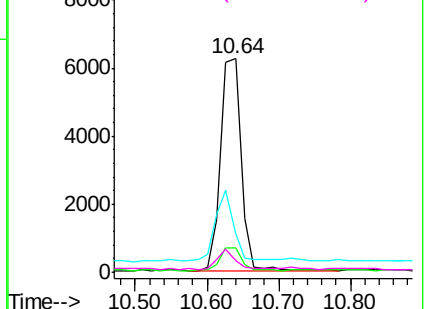
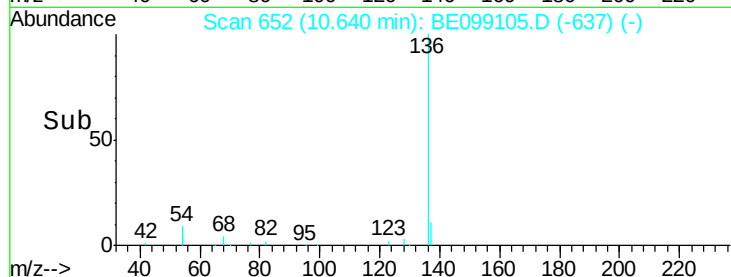


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.679 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

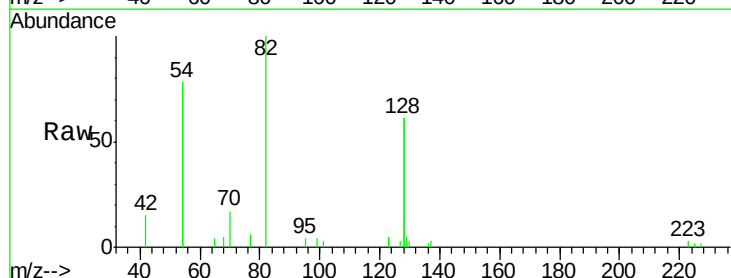
Tgt Ion: 82 Resp: 3640

Ion Ratio Lower Upper

82 100

128 122.1 123.8 185.8#

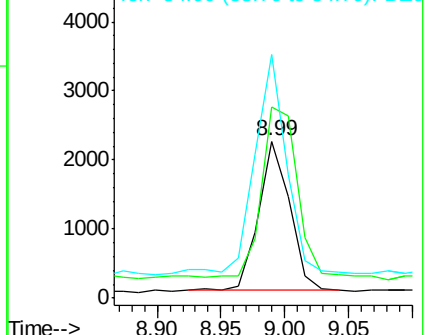
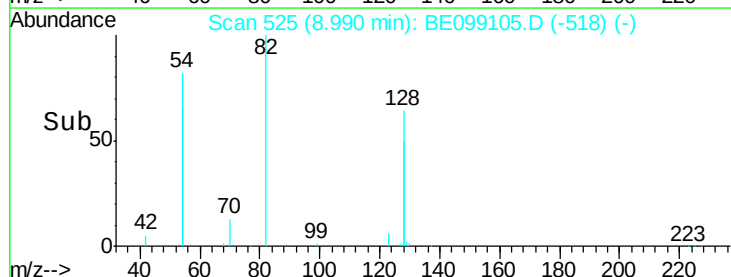
54 155.5 203.4 305.2#

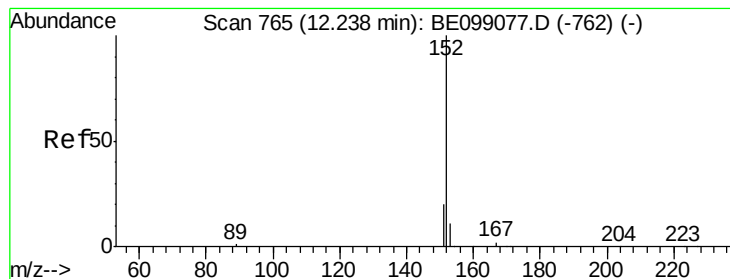


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.332 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.02 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

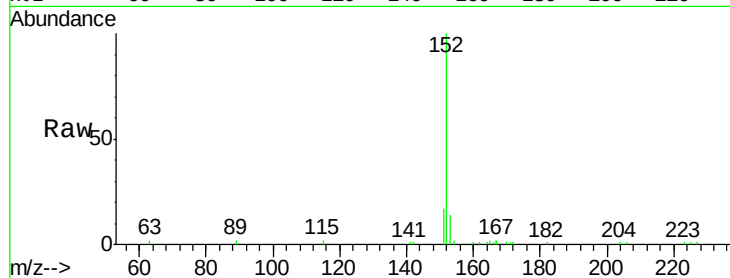
PST-025-B127-031319

Tgt Ion:152 Resp: 7339

Ion Ratio Lower Upper

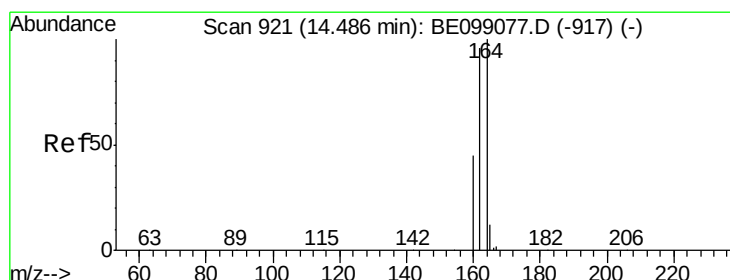
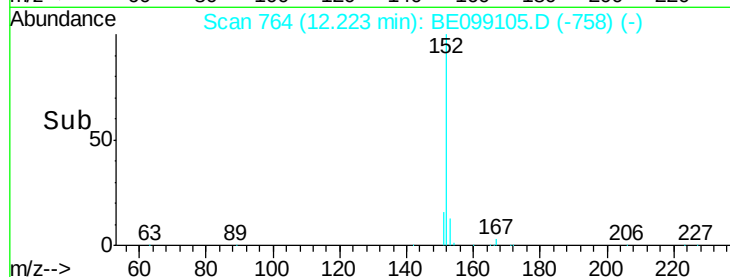
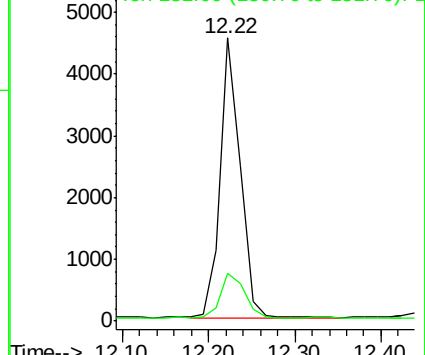
152 100

151 18.7 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: 14.48 min Scan# 921

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

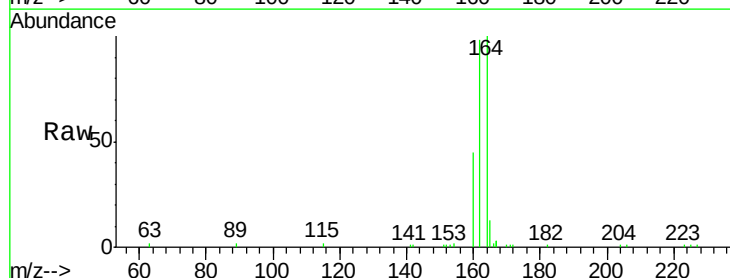
Tgt Ion:164 Resp: 8140

Ion Ratio Lower Upper

164 100

162 97.7 80.2 120.2

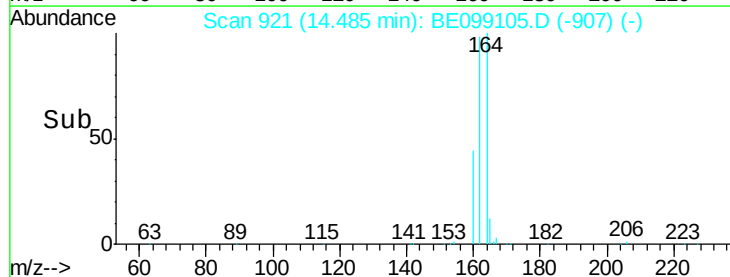
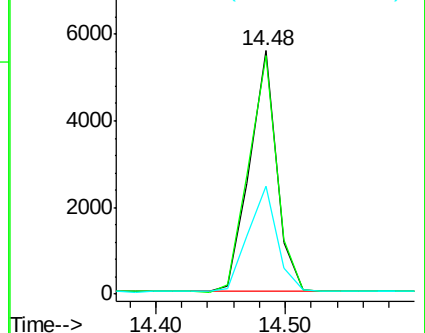
160 44.6 37.8 56.8

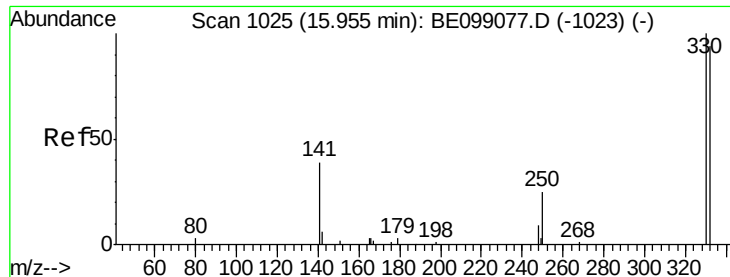


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

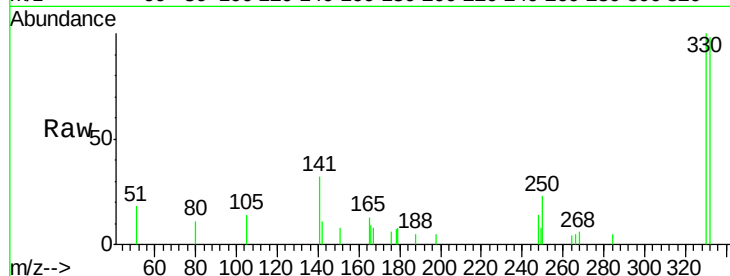




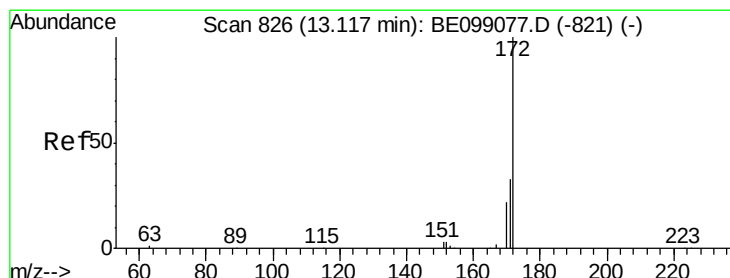
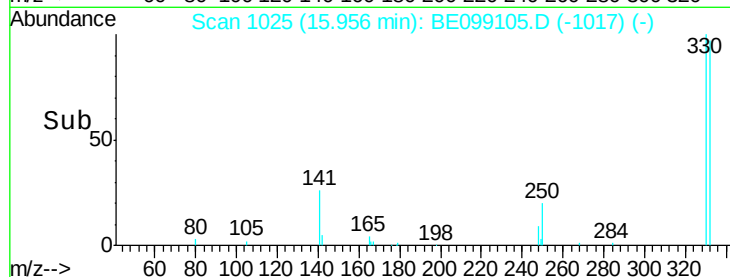
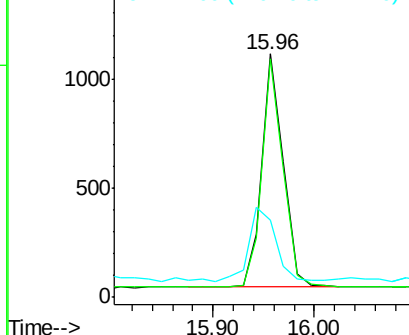
#14
 2,4,6-Tribromophenol
 Concen: 0.664 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. 0.00 min
 Lab File: BE099105.D
 Acq: 23 Mar 2019 10:44

Instrument :
 BNA_E
 ClientSampleId :
 PST-025-B127-031319

Tgt Ion: 330 Resp: 1589
 Ion Ratio Lower Upper
 330 100
 332 95.7 77.6 116.4
 141 39.6 31.0 46.4

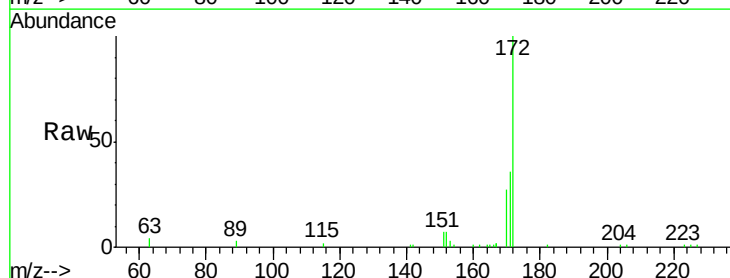


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

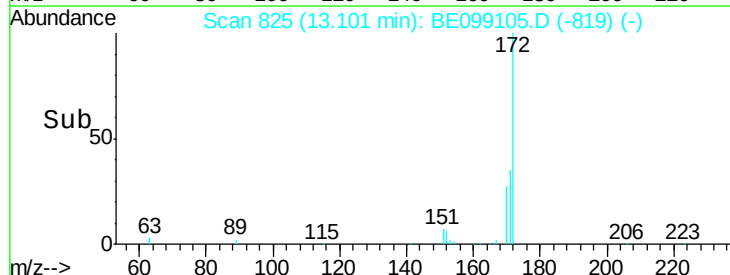
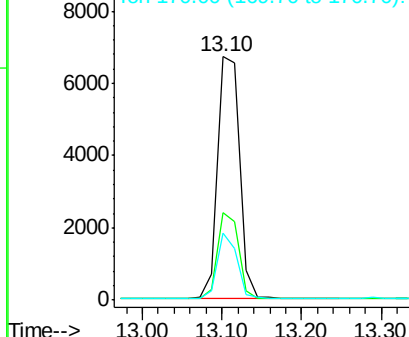


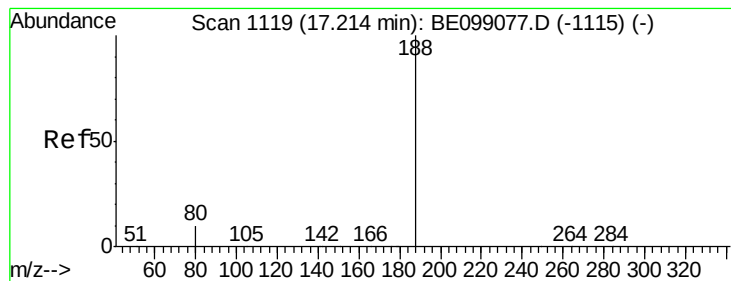
#15
 2-Fluorobiphenyl
 Concen: 0.394 ng
 RT: 13.10 min Scan# 825
 Delta R.T. -0.02 min
 Lab File: BE099105.D
 Acq: 23 Mar 2019 10:44

Tgt Ion: 172 Resp: 12756
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.0 42.0
 170 27.3 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: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

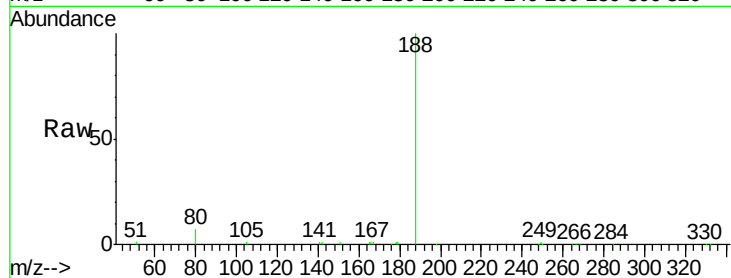
Tgt Ion:188 Resp: 23483

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

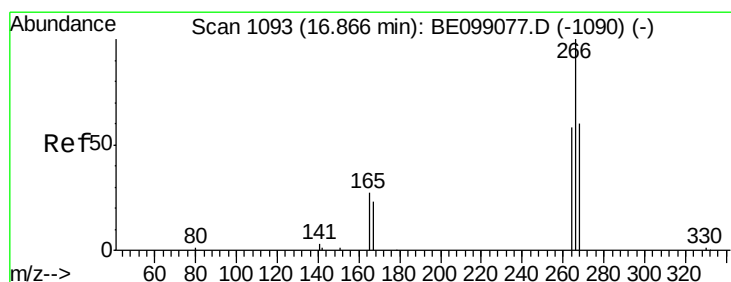
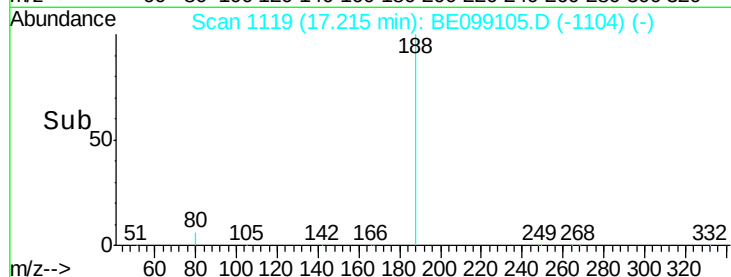
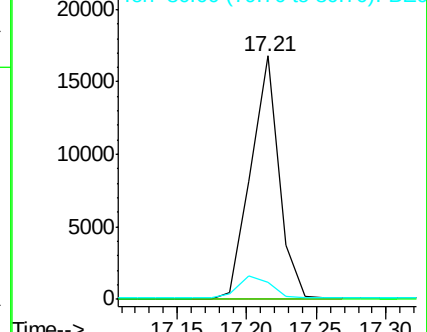
80 7.0 6.3 9.5



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: 0.278 ng

RT: 16.85 min Scan# 1092

Delta R.T. -0.01 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

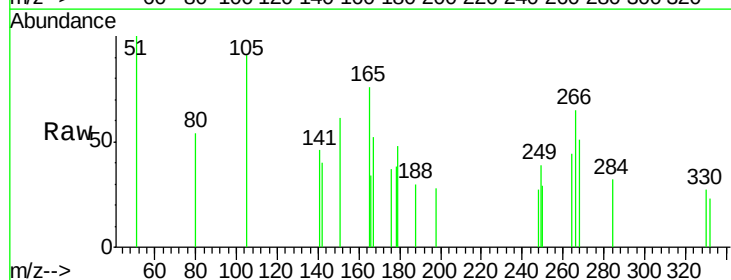
Tgt Ion:266 Resp: 133

Ion Ratio Lower Upper

266 100

264 67.2 66.6 100.0

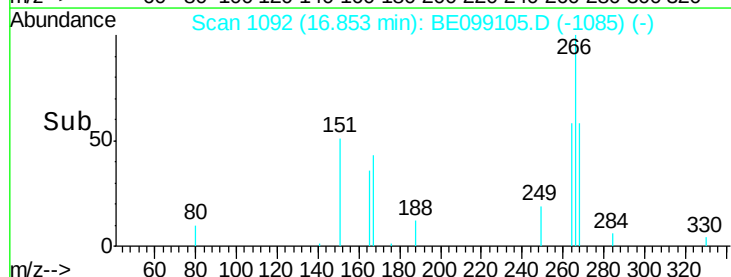
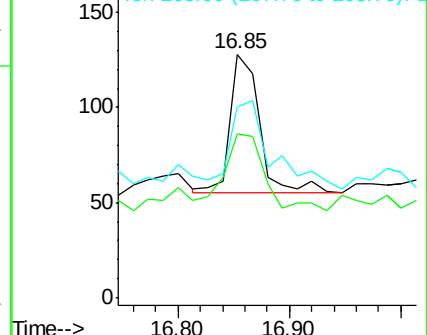
268 78.1 69.8 104.8

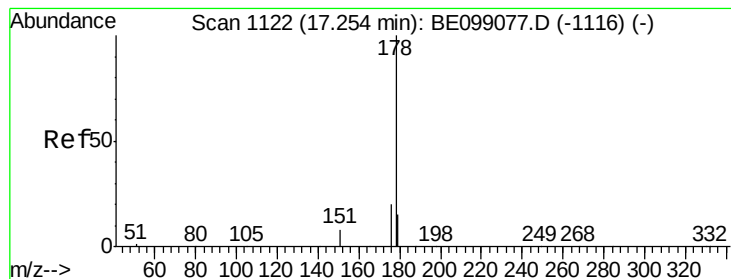


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.140 ng

RT: 17.25 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

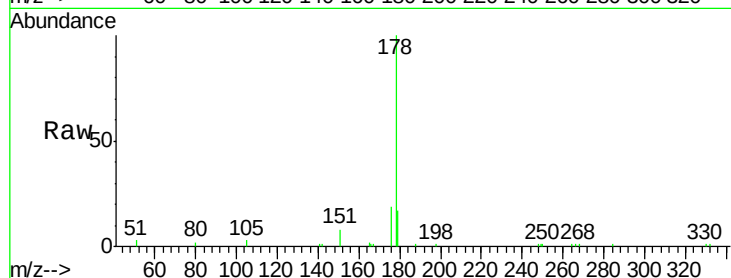
Tgt Ion:178 Resp: 9776

Ion Ratio Lower Upper

178 100

176 19.2 16.0 24.0

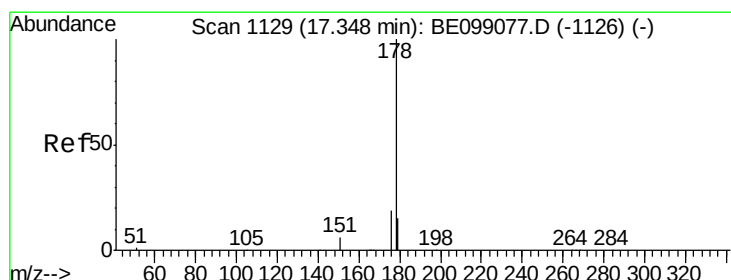
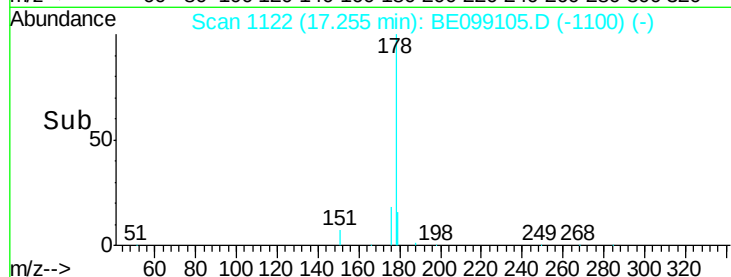
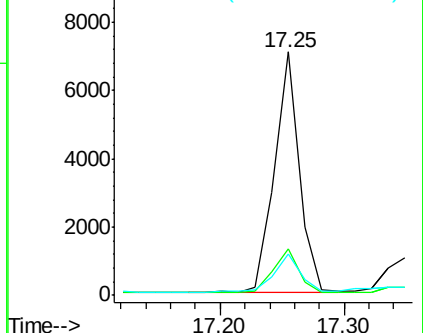
179 17.6 12.1 18.1



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: 0.026 ng

RT: 17.35 min Scan# 1129

Delta R.T. 0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

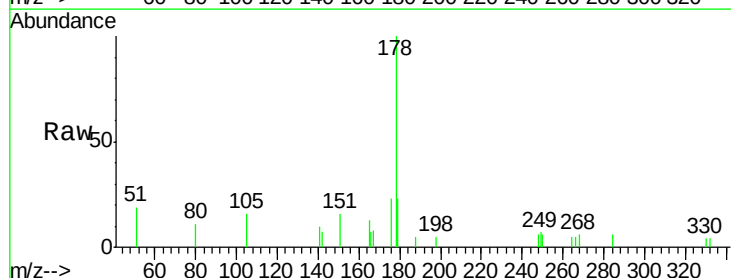
Tgt Ion:178 Resp: 1693

Ion Ratio Lower Upper

178 100

176 19.8 15.4 23.0

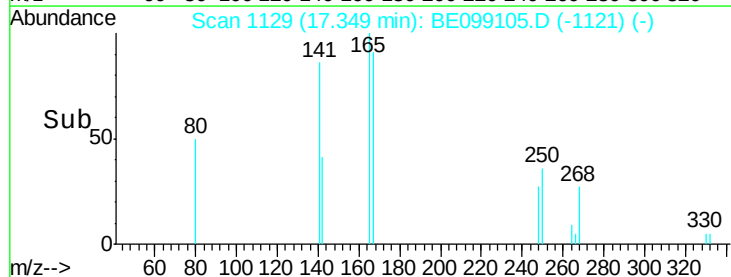
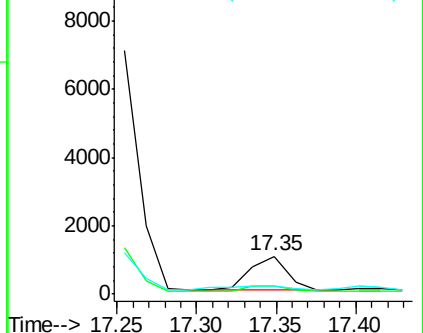
179 20.6 12.2 18.4#

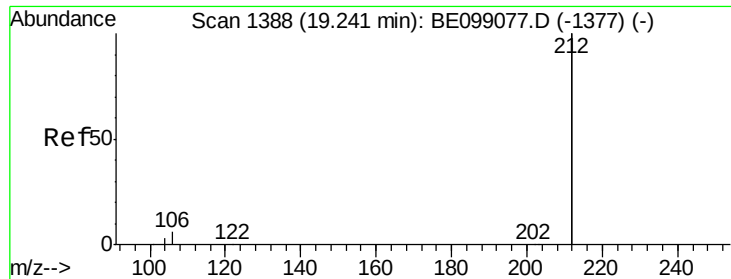


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.323 ng

RT: 19.24 min Scan# 1388

Delta R.T. 0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

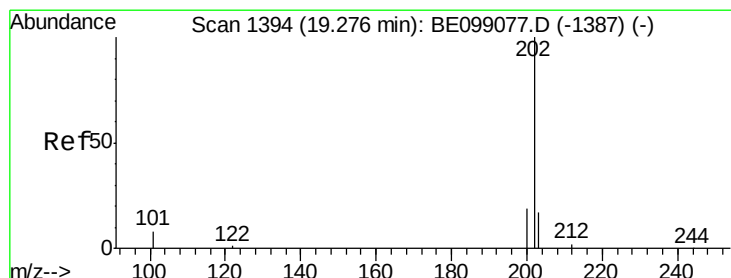
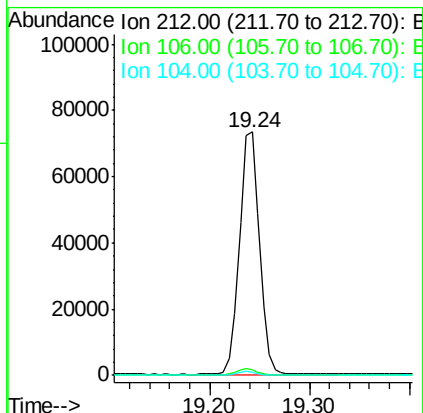
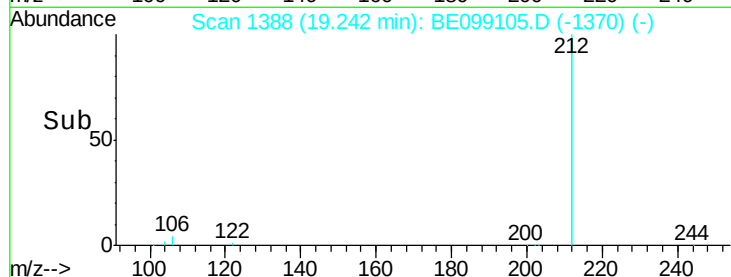
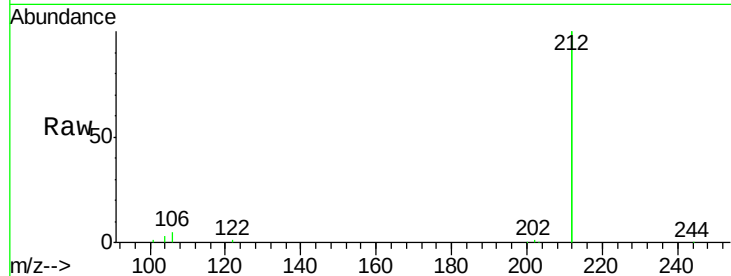
Tgt Ion:212 Resp: 101089

Ion Ratio Lower Upper

212 100

106 2.8 1.8 2.8#

104 1.5 1.0 1.6



#26

Fluoranthene

Concen: 0.203 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

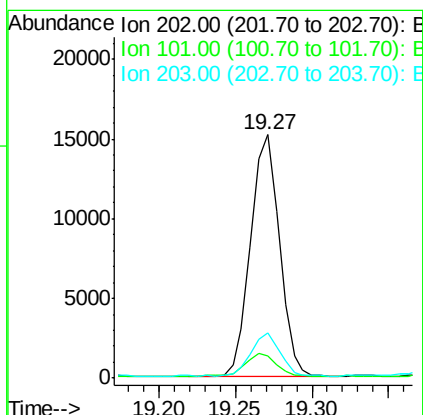
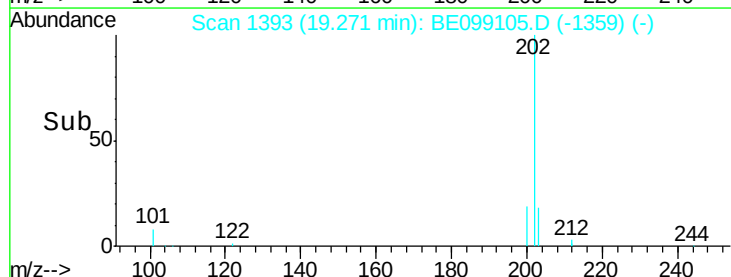
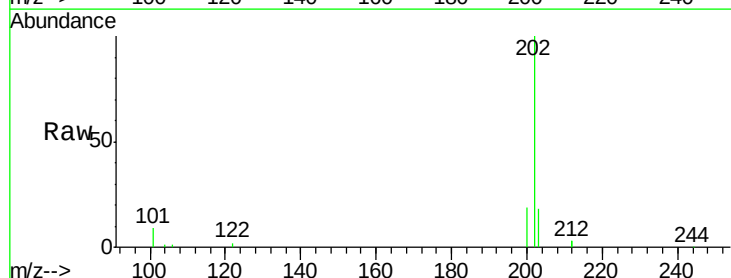
Tgt Ion:202 Resp: 19879

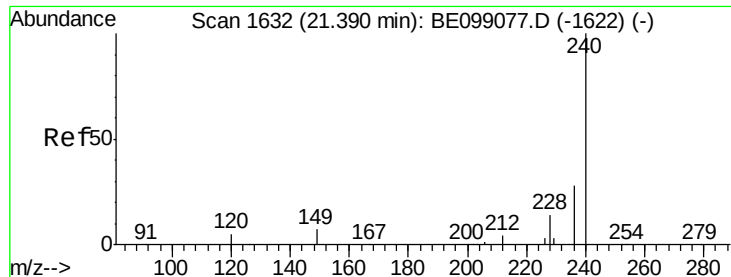
Ion Ratio Lower Upper

202 100

101 10.5 7.3 10.9

203 17.6 13.4 20.2





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.39 min Scan# 1631

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

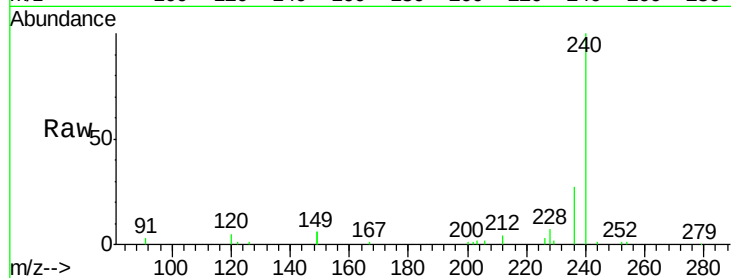
Tgt Ion:240 Resp: 35375

Ion Ratio Lower Upper

240 100

120 4.8 5.0 7.4#

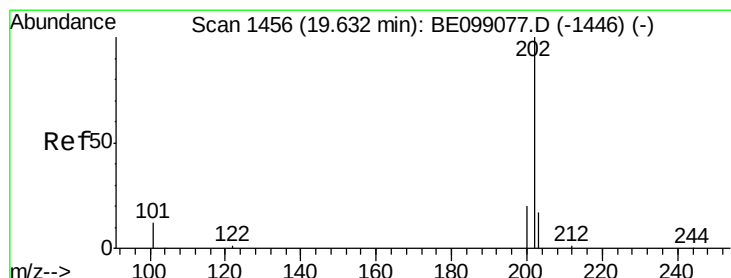
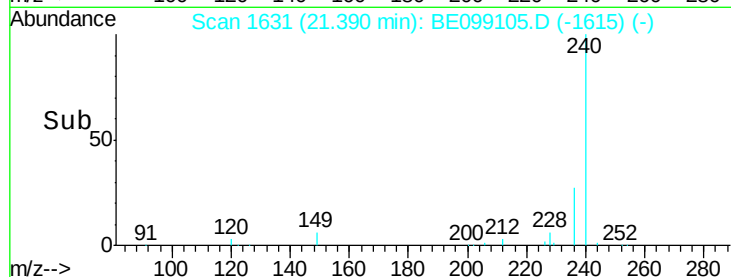
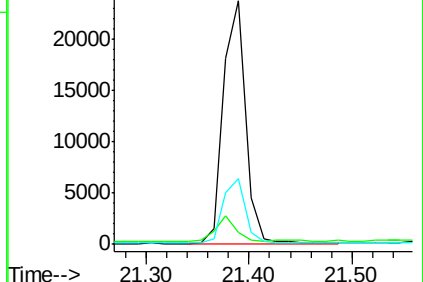
236 27.0 22.7 34.1



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: 0.171 ng

RT: 19.63 min Scan# 1456

Delta R.T. 0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

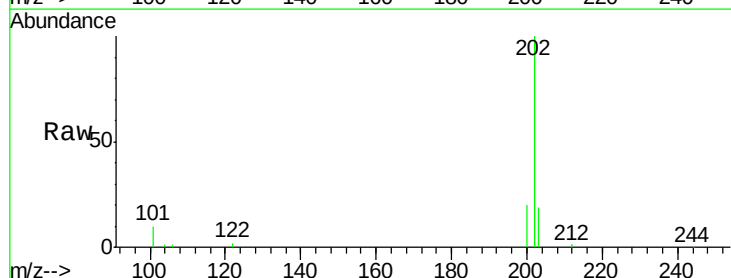
Tgt Ion:202 Resp: 20466

Ion Ratio Lower Upper

202 100

200 20.2 17.0 25.6

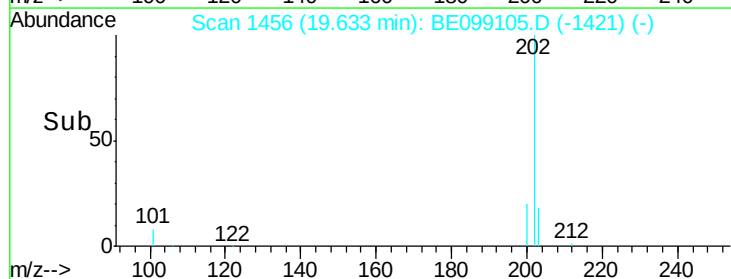
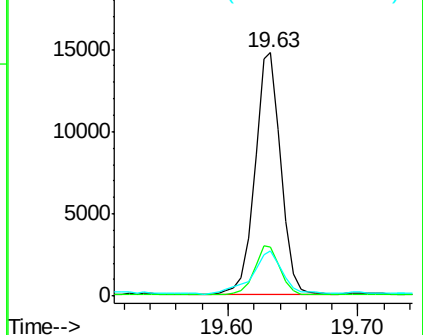
203 20.9 14.2 21.2

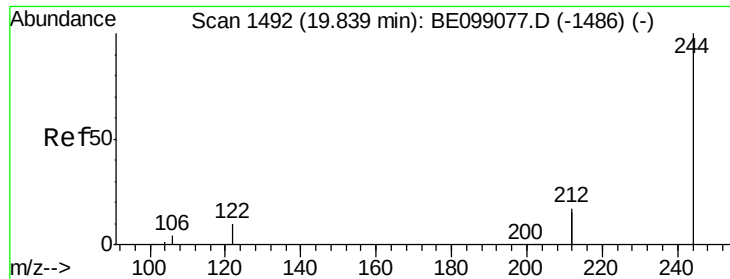


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.332 ng

RT: 19.83 min Scan# 1491

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

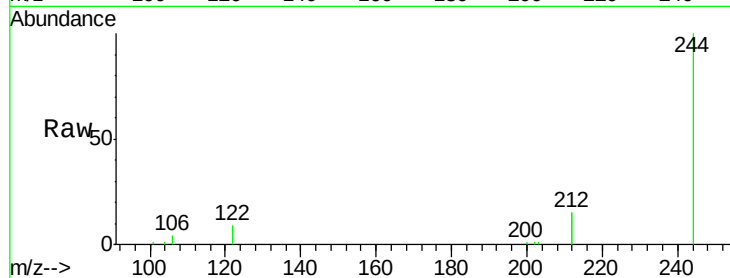
Tgt Ion:244 Resp: 24854

Ion Ratio Lower Upper

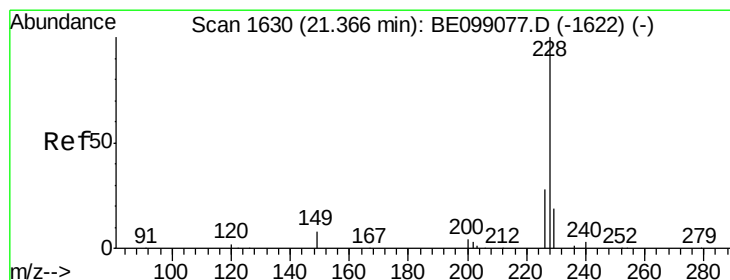
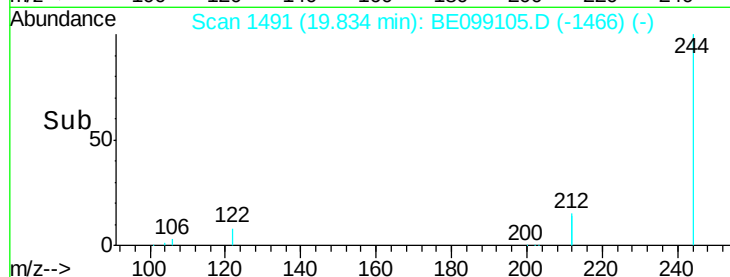
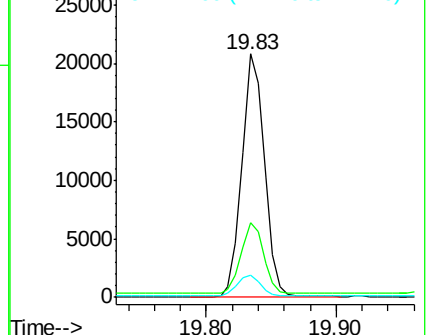
244 100

212 30.8 29.4 44.2

122 9.0 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: 0.095 ng

RT: 21.37 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

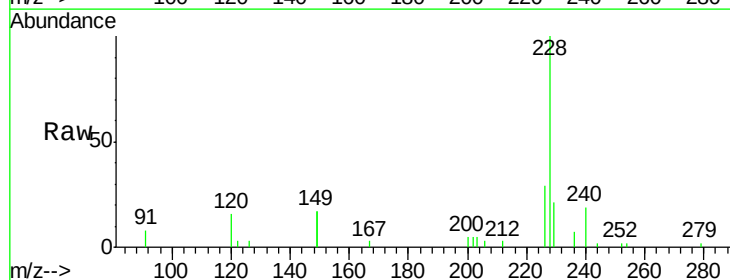
Tgt Ion:228 Resp: 11801

Ion Ratio Lower Upper

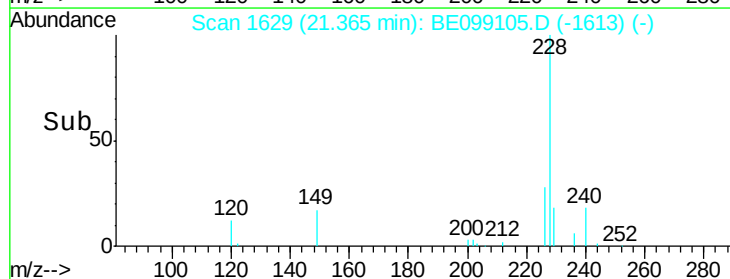
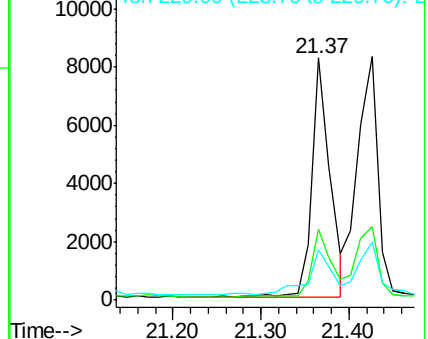
228 100

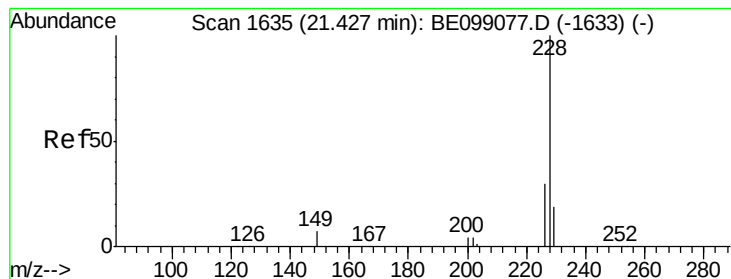
226 29.2 23.0 34.4

229 21.0 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: 0.105 ng

RT: 21.43 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

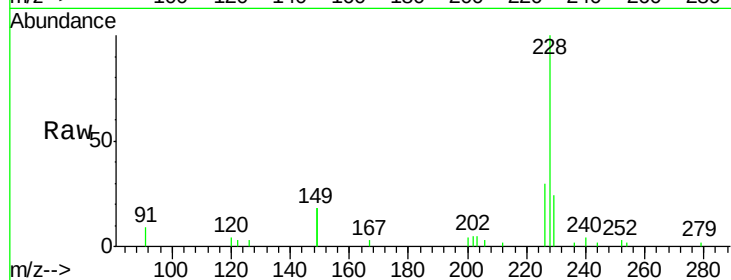
Tgt Ion: 228 Resp: 13054

Ion Ratio Lower Upper

228 100

226 30.2 23.7 35.5

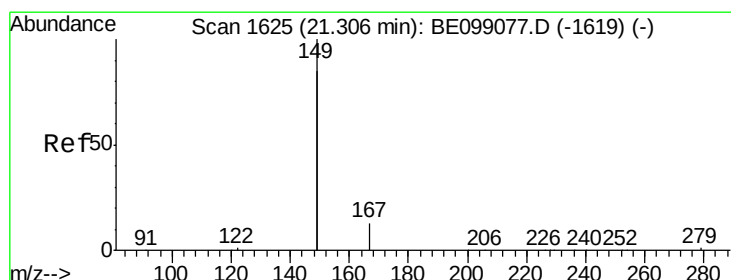
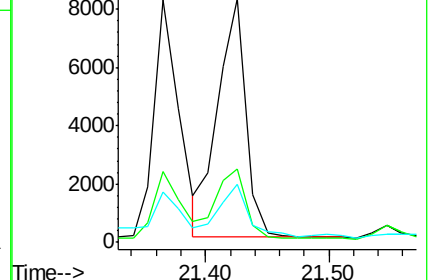
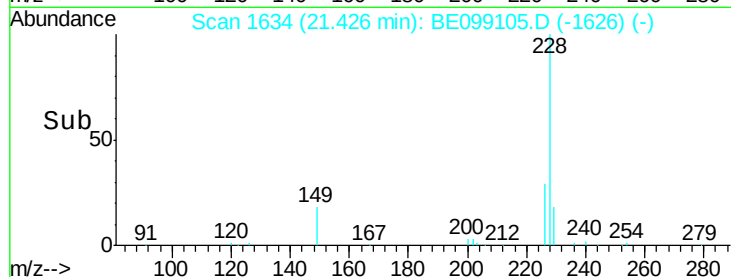
229 23.7 16.1 24.1



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: 0.215 ng

RT: 21.29 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

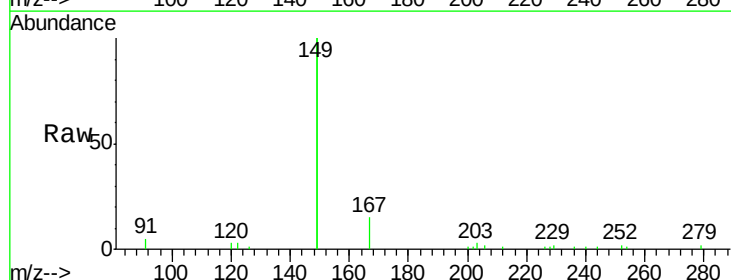
Tgt Ion: 149 Resp: 34779

Ion Ratio Lower Upper

149 100

167 7.5 5.4 8.0

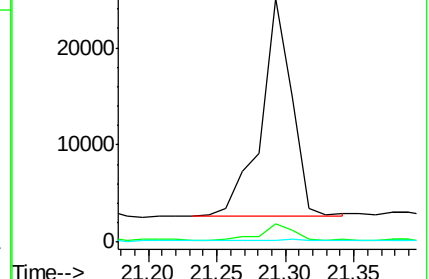
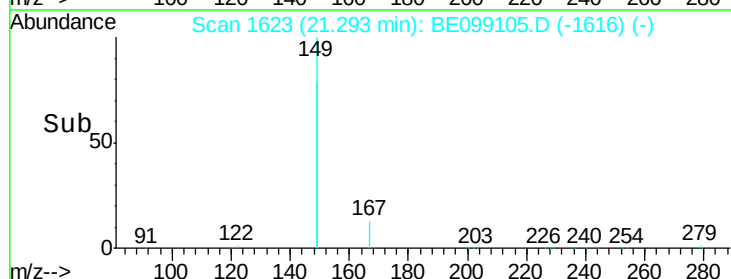
279 1.0 1.0 1.4

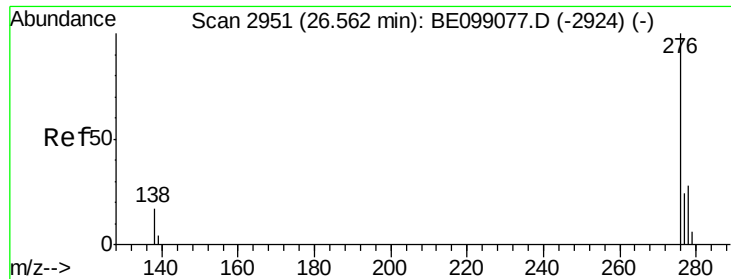


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.055 ng

RT: 26.55 min Scan# 2947

Delta R.T. -0.01 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

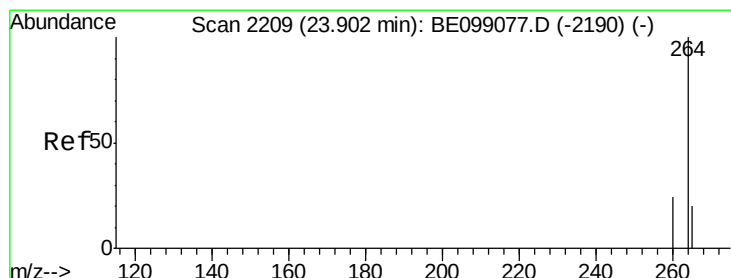
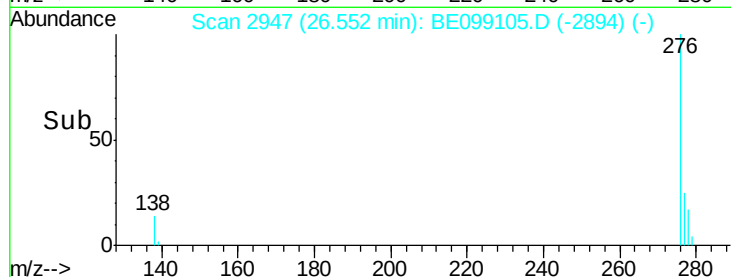
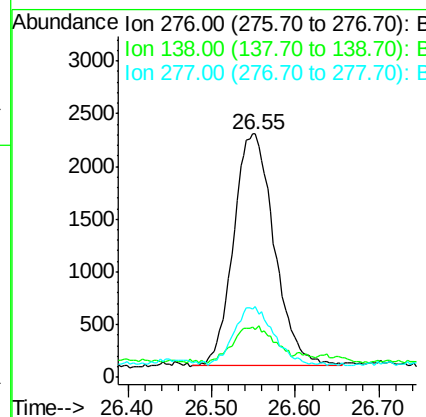
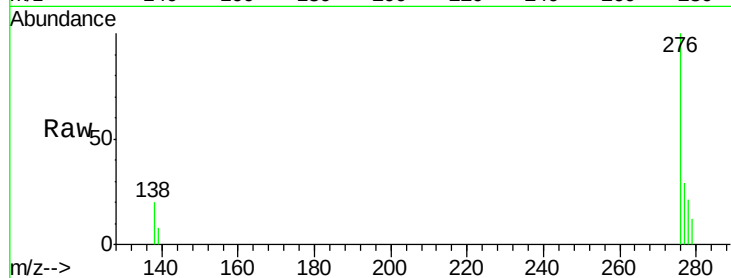
Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

Tgt Ion:	276	Resp:	7403
Ion	Ratio	Lower	Upper
276	100		
138	7.1	13.8	20.8#
277	24.3	19.5	29.3



#34

Perylene-d12

Concen: 0.400 ng

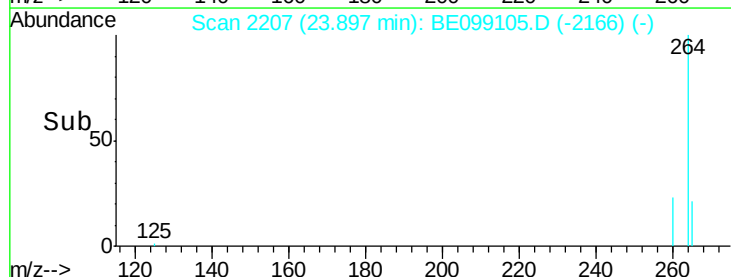
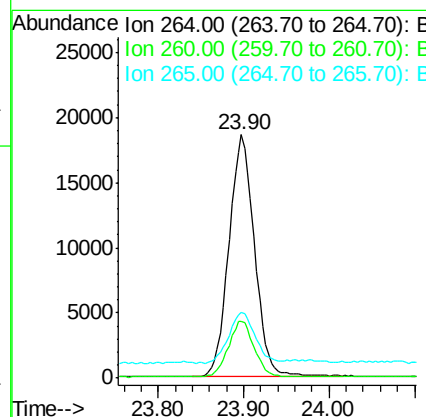
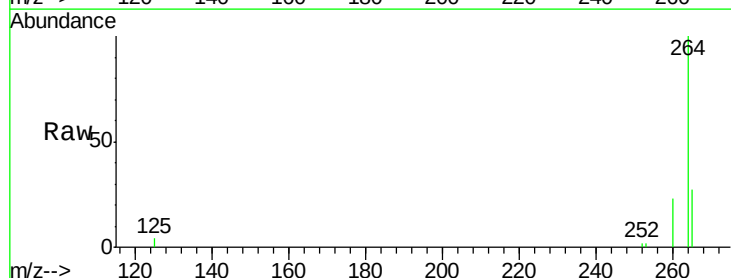
RT: 23.90 min Scan# 2207

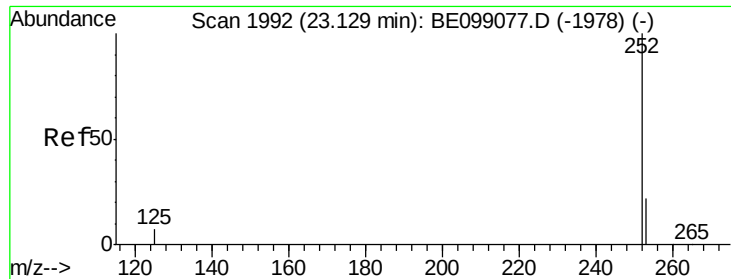
Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Tgt Ion:	264	Resp:	38540
Ion	Ratio	Lower	Upper
264	100		
260	23.4	21.2	31.8
265	27.1	24.6	36.8





#35

Benzo(b)fluoranthene

Concen: 0.116 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.00 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

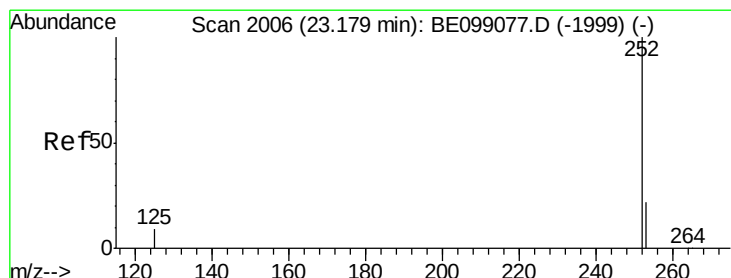
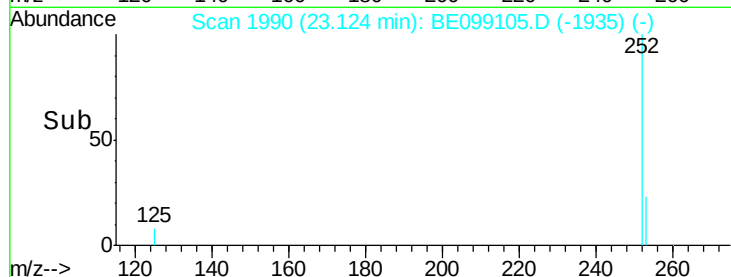
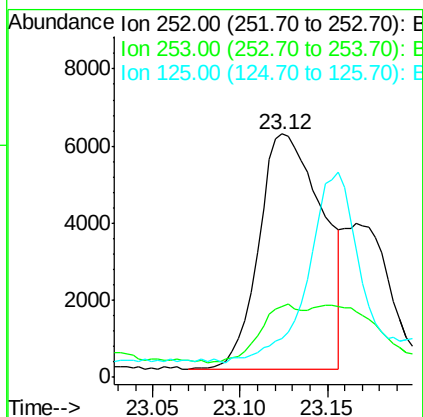
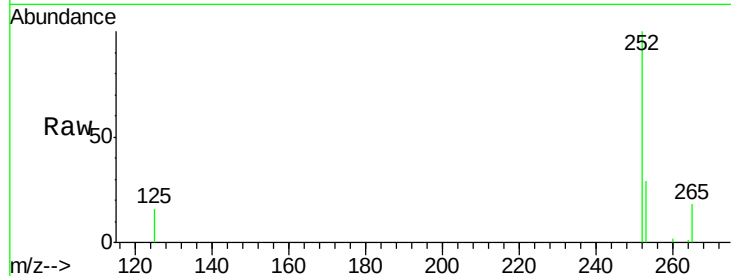
BNA_E

ClientSampleId :

PST-025-B127-031319

Tgt Ion:252 Resp: 15434

Ion	Ratio	Lower	Upper
252	100		
253	29.0	18.2	27.2#
125	15.9	7.3	10.9#



#36

Benzo(k)fluoranthene

Concen: 0.118 ng

RT: 23.12 min Scan# 1990

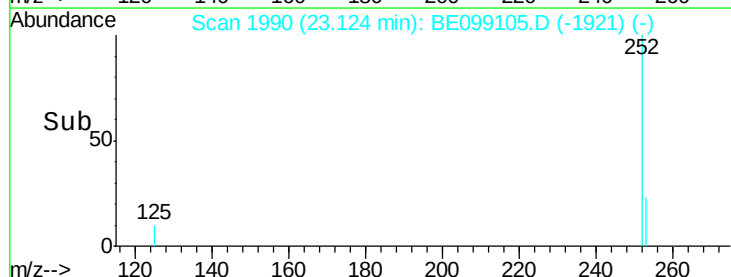
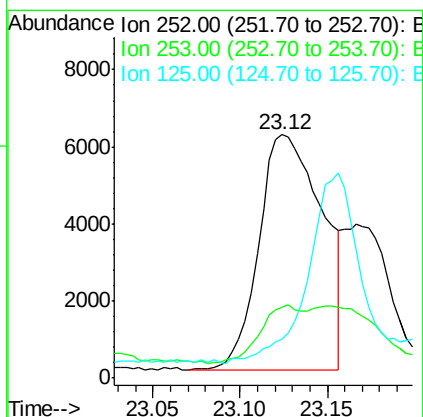
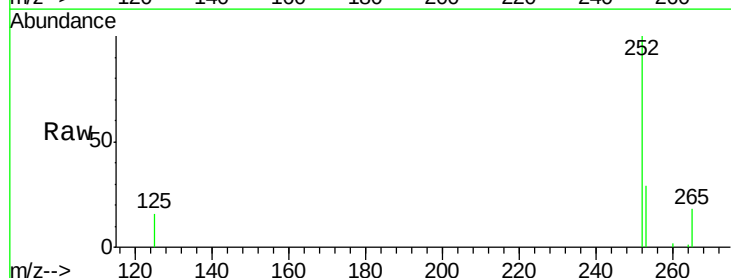
Delta R.T. -0.05 min

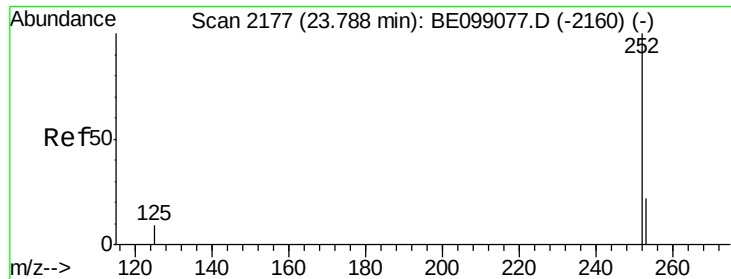
Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Tgt Ion:252 Resp: 15434

Ion	Ratio	Lower	Upper
252	100		
253	29.0	19.3	28.9#
125	15.9	7.5	11.3#





#37

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319

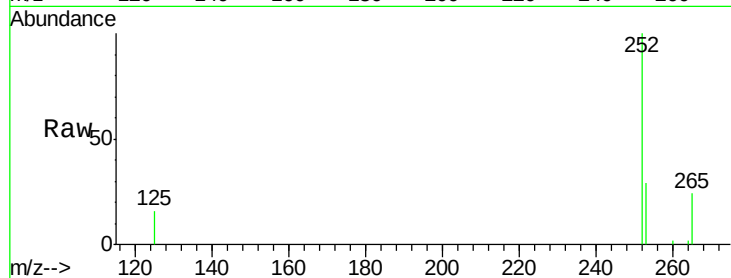
Tgt Ion:252 Resp: 10943

Ion Ratio Lower Upper

252 100

253 28.5 19.9 29.9

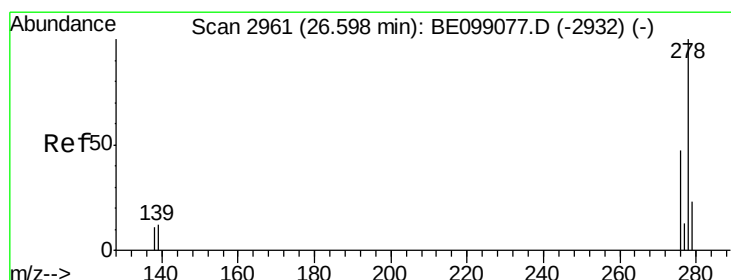
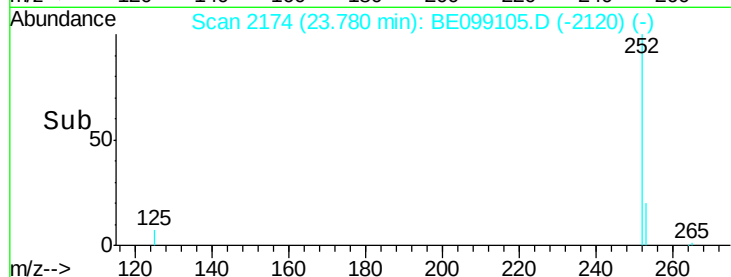
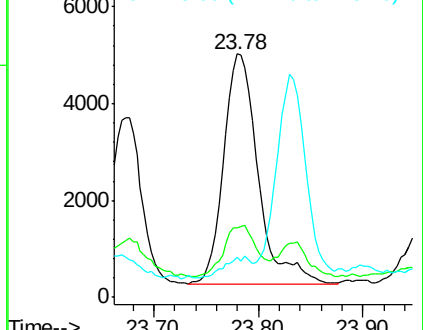
125 16.2 9.0 13.4#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.021 ng

RT: 26.58 min Scan# 2955

Delta R.T. -0.02 min

Lab File: BE099105.D

Acq: 23 Mar 2019 10:44

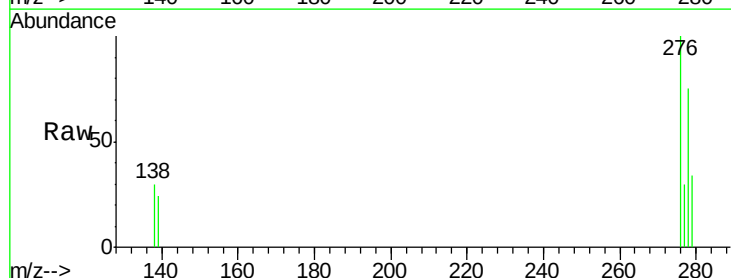
Tgt Ion:278 Resp: 2571

Ion Ratio Lower Upper

278 100

139 31.7 11.8 17.6#

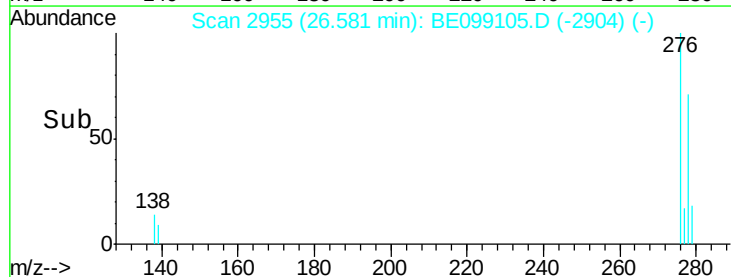
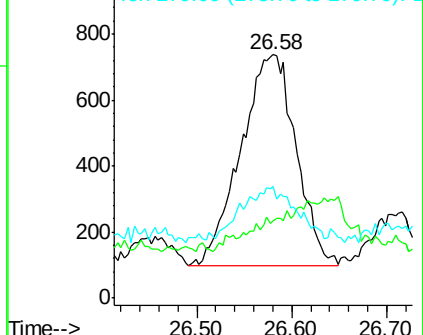
279 45.8 21.1 31.7#

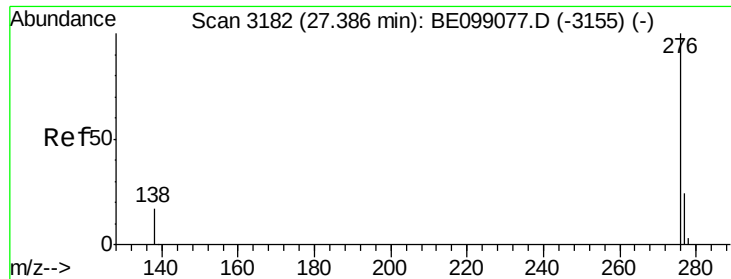


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.060 ng

RT: 27.37 min Scan# 3176

Delta R.T. -0.02 min

Lab File: BE099105.D

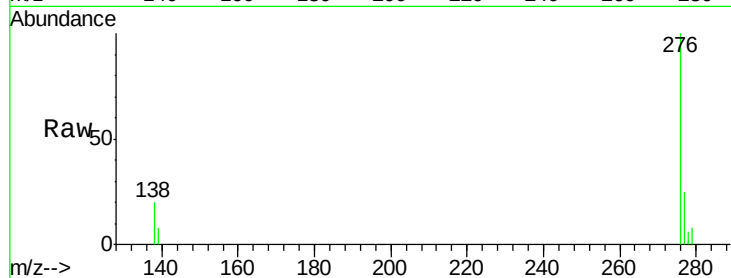
Acq: 23 Mar 2019 10:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B127-031319



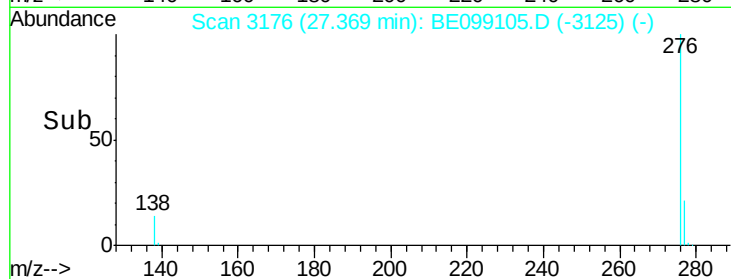
Tgt Ion: 276 Resp: 7405

Ion Ratio Lower Upper

276 100

277 25.3 20.4 30.6

138 19.5 13.6 20.4



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

