

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099499.D
 Acq On : 2 May 2019 18:44
 Operator : JU/SJ
 Sample : K2533-08
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-025-B031-042219

Quant Time: May 03 02:10:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	2546	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	8990	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6635	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	20810	0.40	ng	0.00
27) Chrysene-d12	21.37	240	31074	0.40	ng	0.00
34) Perylene-d12	23.87	264	35292	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	2196	0.31	ng	0.00
5) Phenol-d6	6.96	99	3197	0.34	ng	-0.01
8) Nitrobenzene-d5	8.96	82	2600	0.31	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	4321	0.27	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1496	0.36	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	6602	0.26	ng	0.00
25) Fluoranthene-d10	19.22	212	79241	0.28	ng	0.00
29) Terphenyl-d14	19.82	244	16256	0.29	ng	0.00

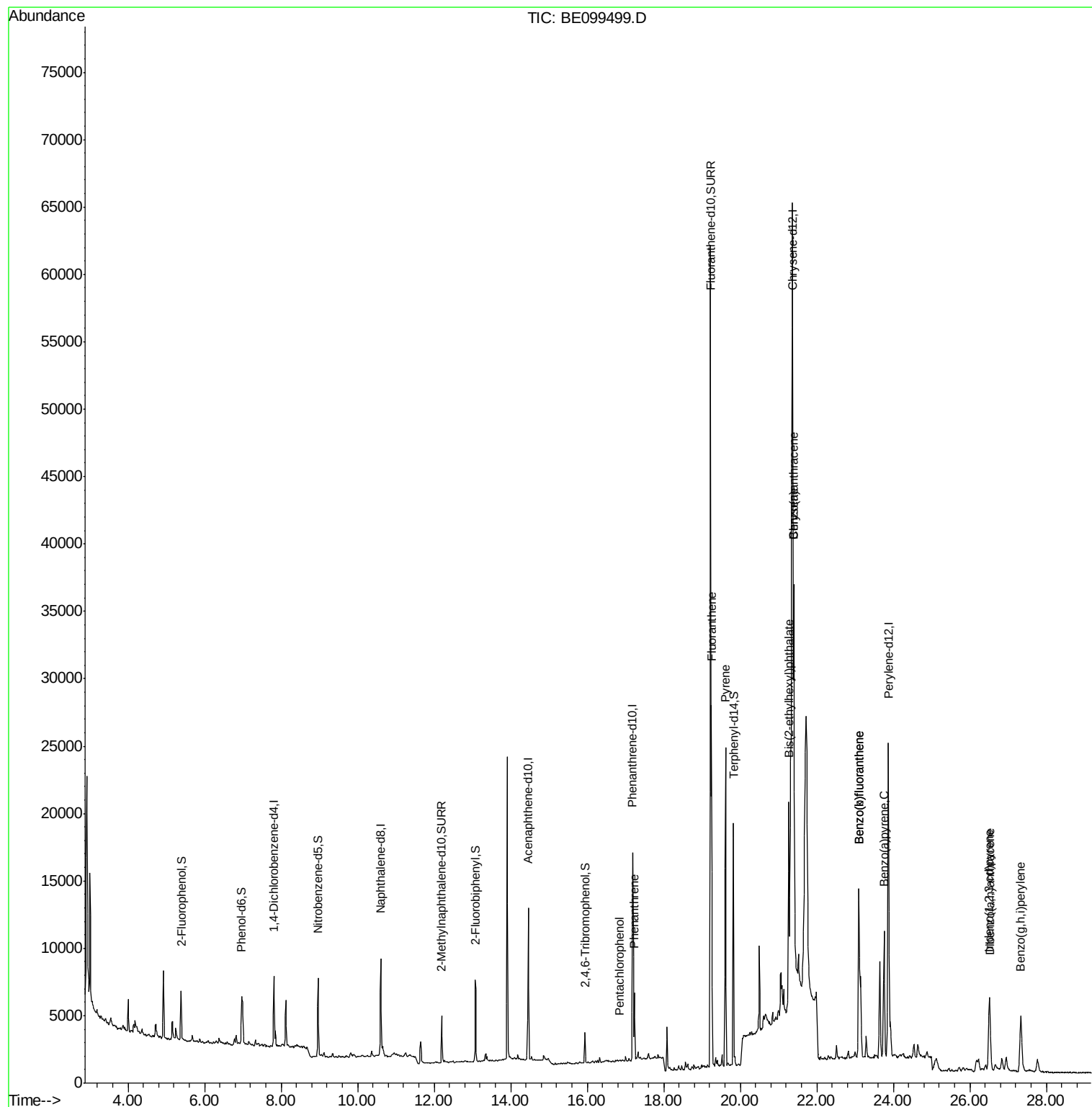
Target Compounds				Qvalue		
22) Pentachlorophenol	16.84	266	60	0.225	ng	# 59
23) Phenanthrene	17.23	178	5164	0.096	ng	96
26) Fluoranthene	19.25	202	24144	0.300	ng	99
28) Pyrene	19.62	202	22482	0.278	ng	# 96
30) Benzo(a)anthracene	21.40	228	17471	0.176	ng	92
31) Chrysene	21.40	228	17334	0.179	ng	# 95
32) Bis(2-ethylhexyl)phthalate	21.27	149	23475	0.096	ng	# 96
33) Indeno(1,2,3-cd)pyrene	26.51	276	11027	0.096	ng	98
35) Benzo(b)fluoranthene	23.10	252	22197	0.218	ng	# 86
36) Benzo(k)fluoranthene	23.10	252	22197	0.226	ng	# 87
37) Benzo(a)pyrene	23.76	252	14183	0.147	ng	# 86
38) Dibenzo(a,h)anthracene	26.53	278	2658	0.027	ng	# 58
39) Benzo(a,h,i)perylene	27.33	276	11203	0.114	ng	# 95

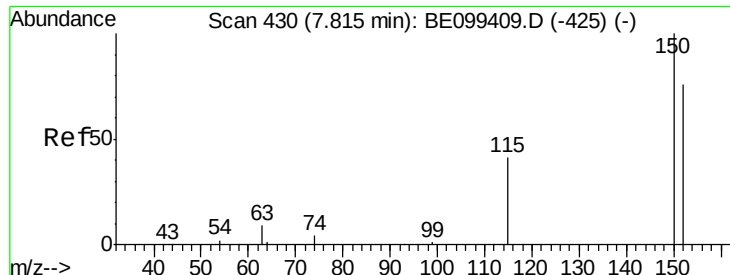
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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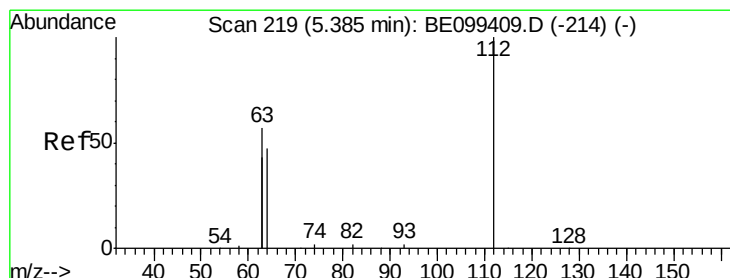
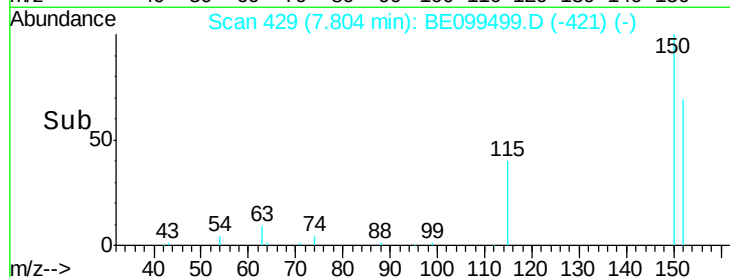
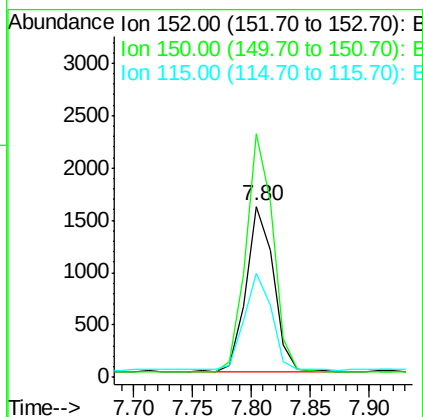
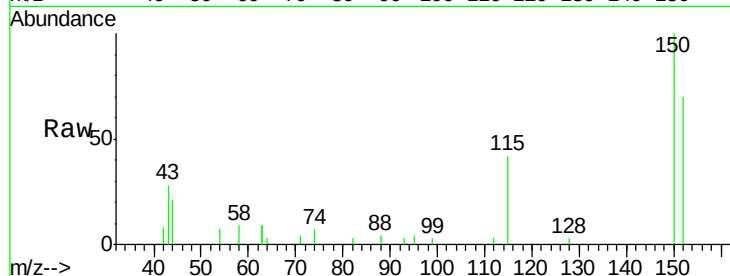


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.80 min Scan# 429
Delta R.T. -0.01 min
Lab File: BE099499.D
Acq: 2 May 2019 18:44

Instrument :
BNA_E
ClientSampleId :
PST-025-B031-042219

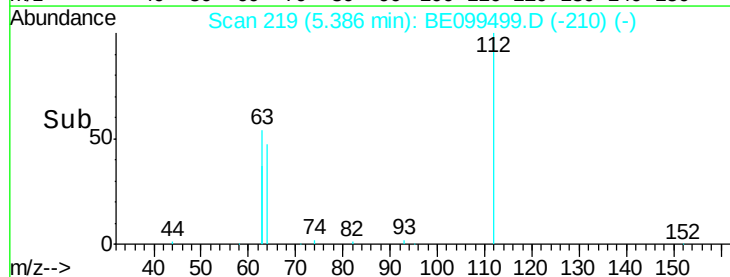
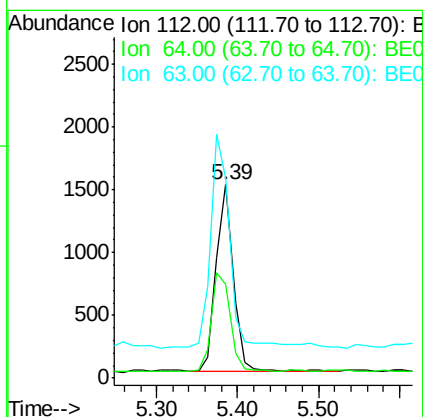
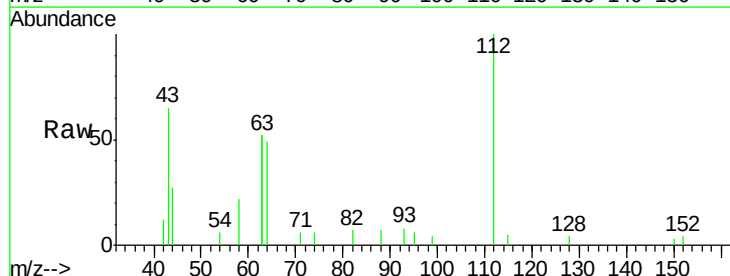
Tot Ion:152 Resp: 2546
Ion Ratio Lower Upper
152 100
150 142.2 104.8 157.2
115 60.4 46.6 69.8

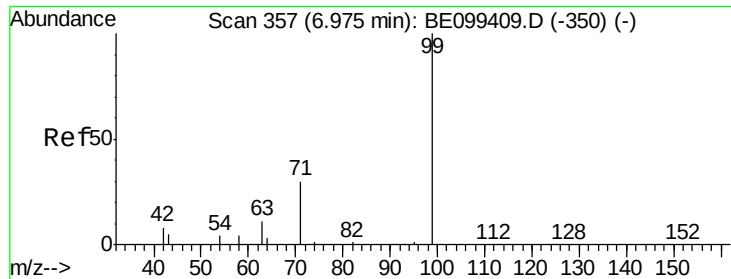


#4

2-Fluorophenol
Concen: 0.312 ng
RT: 5.39 min Scan# 219
Delta R.T. 0.00 min
Lab File: BE099499.D
Acq: 2 May 2019 18:44

Tgt Ion:112 Resp: 2196
Ion Ratio Lower Upper
112 100
64 58.6 47.4 71.0
63 125.6 104.3 156.5





#5

Phenol-d6

Concen: 0.341 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

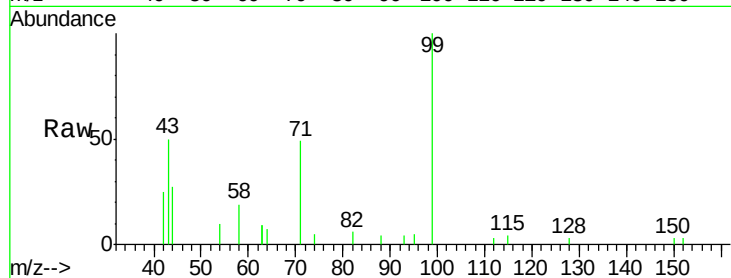
Tot Ion: 99 Resp: 3197

Ion Ratio Lower Upper

99 100

42 16.6 14.9 22.3

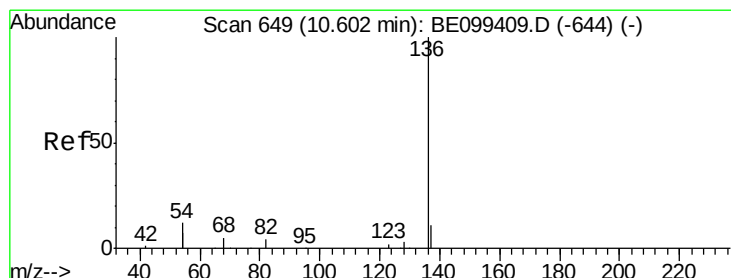
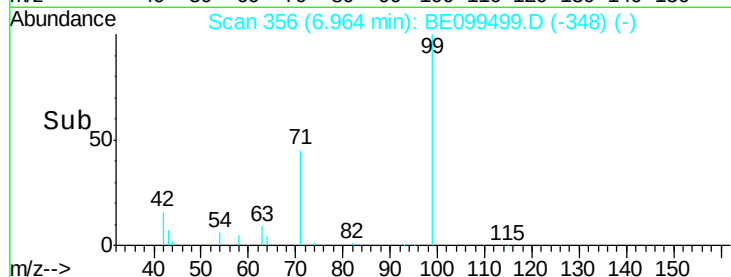
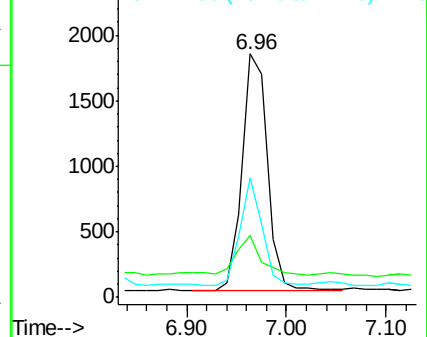
71 39.8 33.0 49.6



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: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Tgt Ion: 136 Resp: 8990

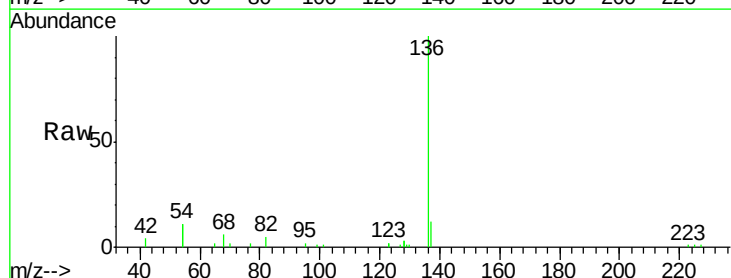
Ion Ratio Lower Upper

136 100

137 11.9 9.8 14.8

54 22.8 18.5 27.7

68 6.4 4.7 7.1

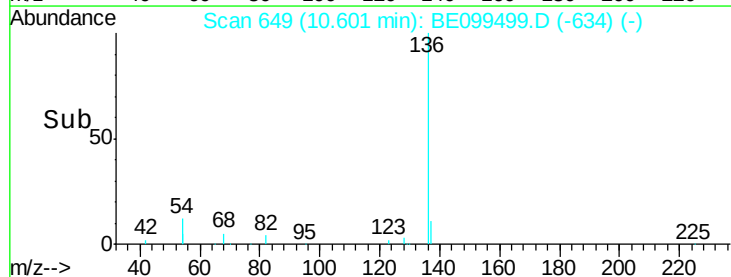
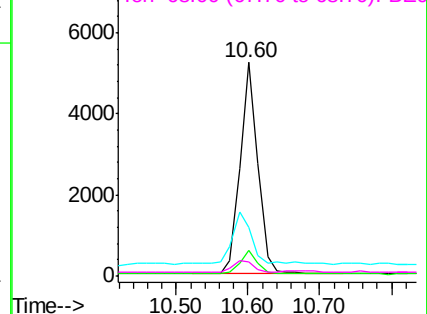


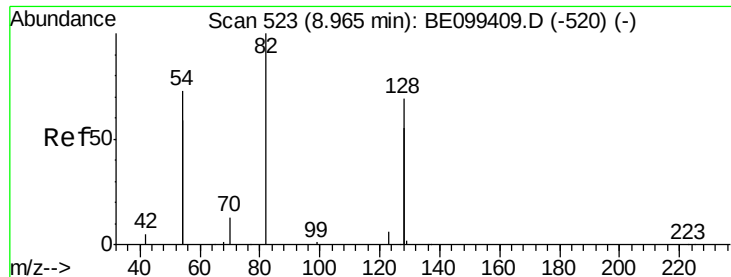
Abundance Ion 136.00 (135.70 to 136.70): BE0

Ion 137.00 (136.70 to 137.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.309 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

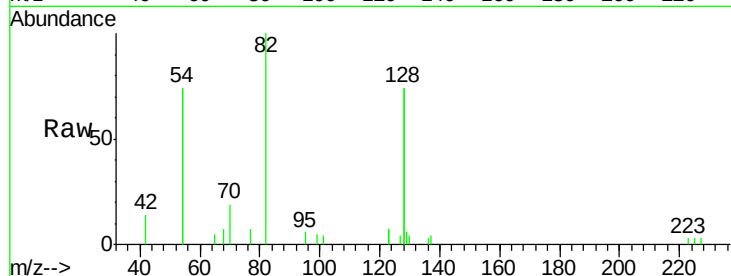
Tot Ion: 82 Resp: 2600

Ion Ratio Lower Upper

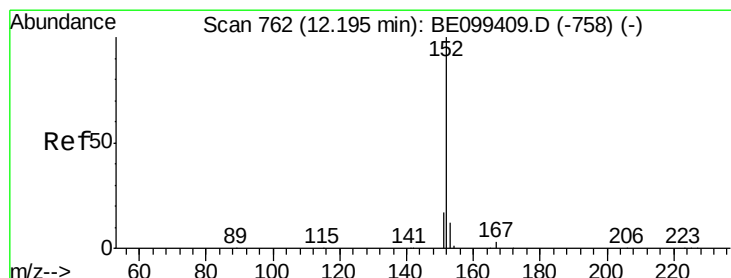
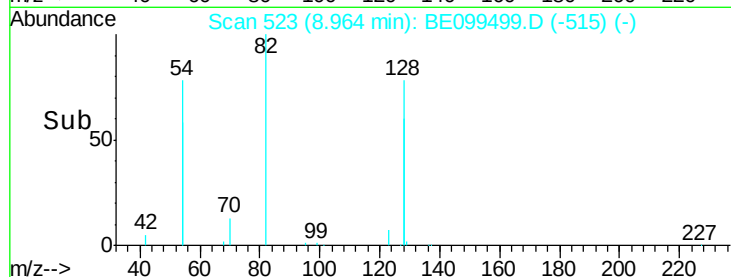
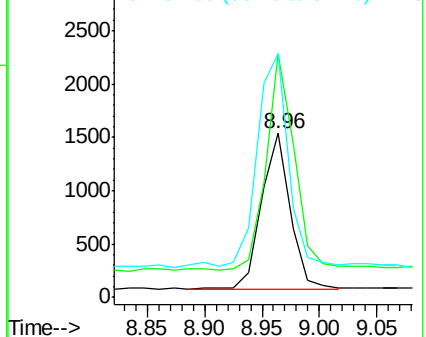
82 100

128 148.1 107.0 160.4

54 148.4 113.1 169.7



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: 0.267 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099499.D

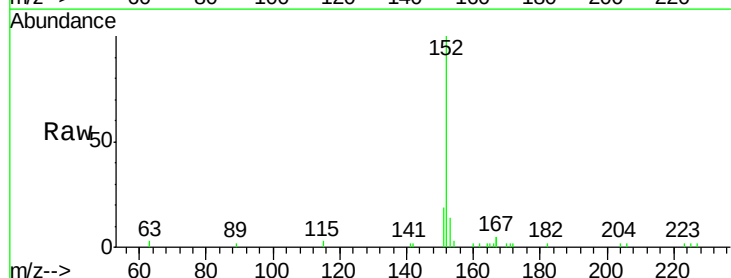
Acq: 2 May 2019 18:44

Tgt Ion: 152 Resp: 4321

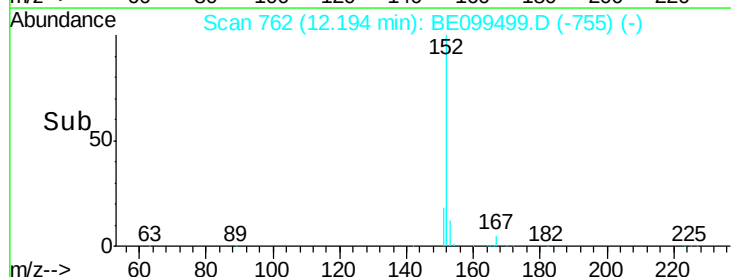
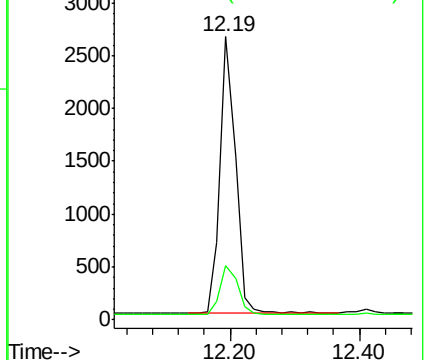
Ion Ratio Lower Upper

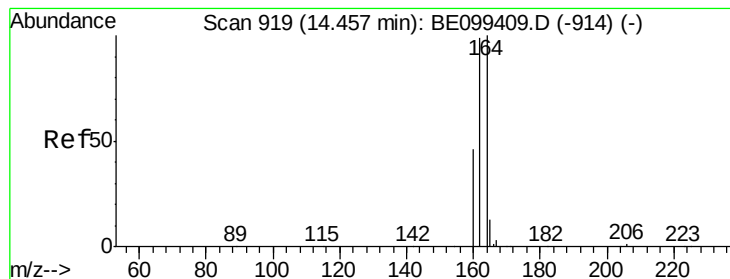
152 100

151 20.1 15.5 23.3



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: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

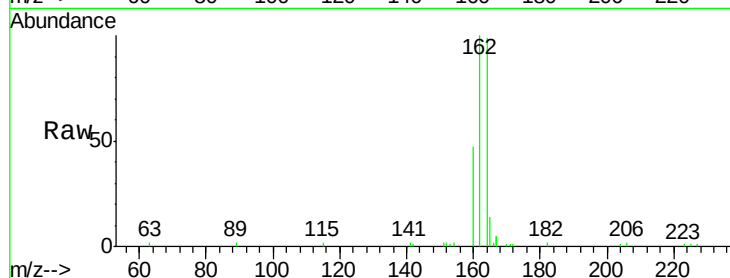
Tot Ion:164 Resp: 6635

Ion Ratio Lower Upper

164 100

162 101.2 79.0 118.4

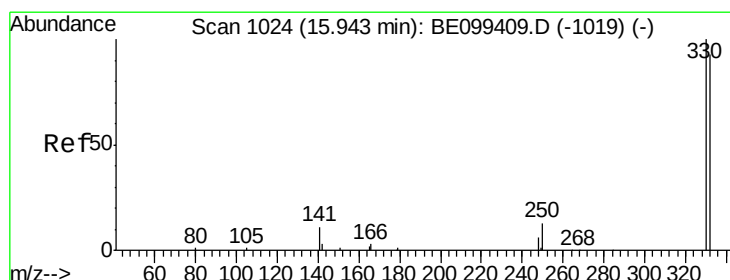
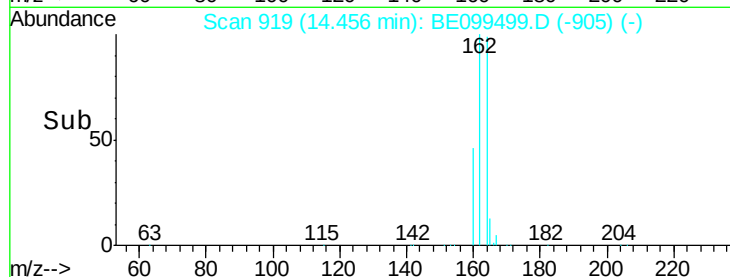
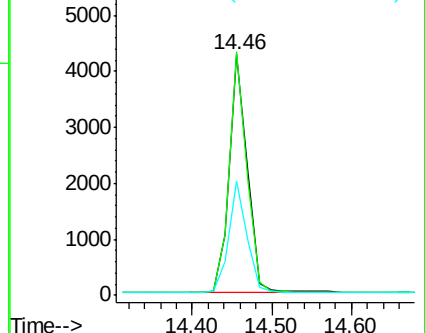
160 47.5 37.0 55.4



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: 0.358 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

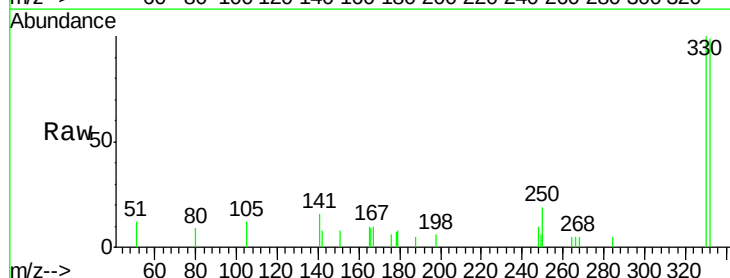
Tgt Ion:330 Resp: 1496

Ion Ratio Lower Upper

330 100

332 100.4 71.5 107.3

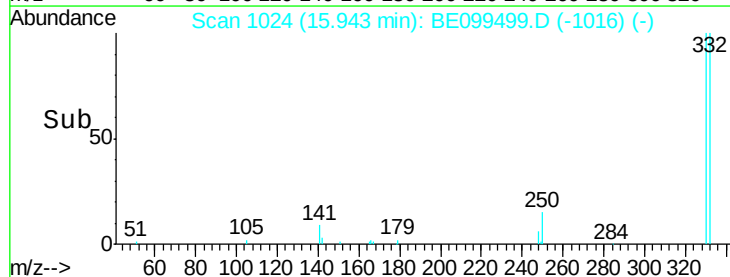
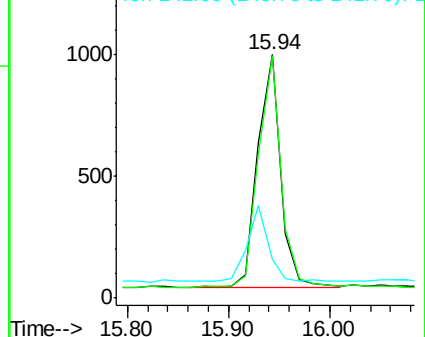
141 29.9 24.0 36.0

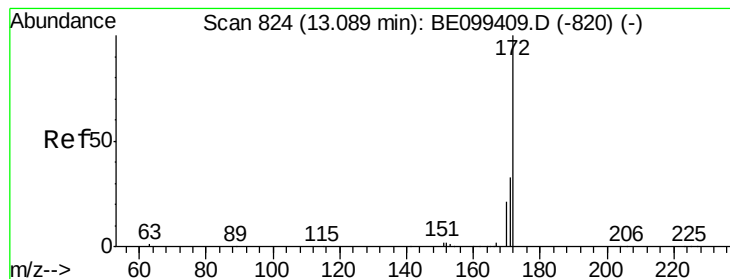


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.261 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

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PST-025-B031-042219

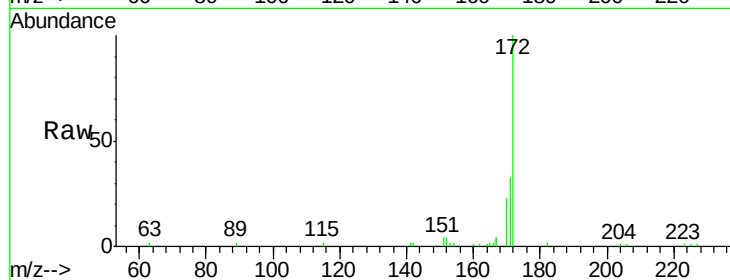
Tot Ion:172 Resp: 6602

Ion Ratio Lower Upper

172 100

171 33.3 26.6 39.8

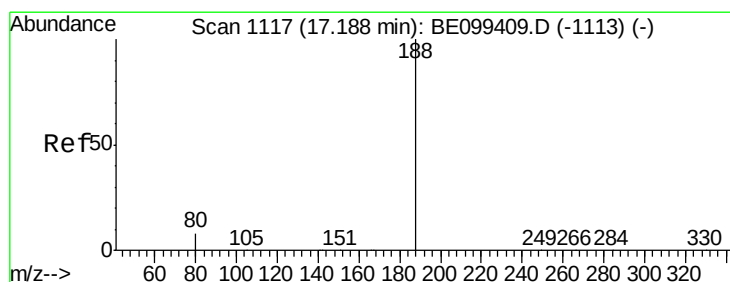
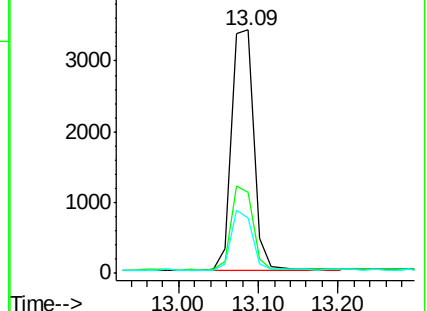
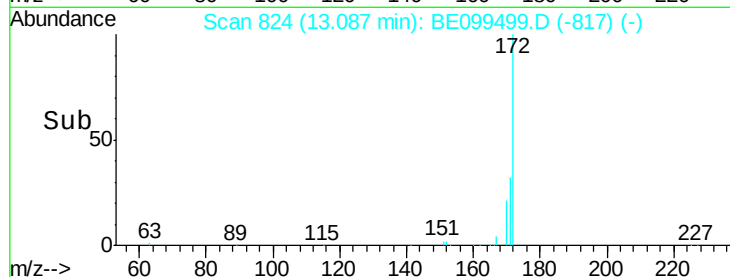
170 22.7 17.0 25.6



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: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

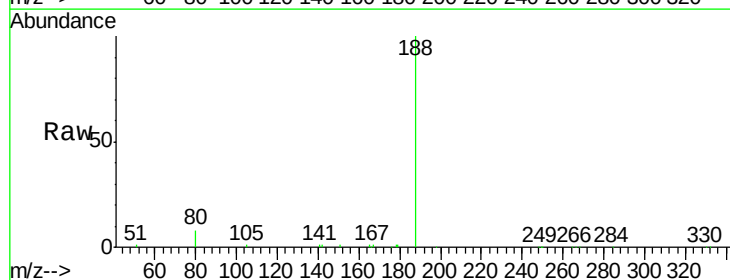
Tgt Ion:188 Resp: 20810

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

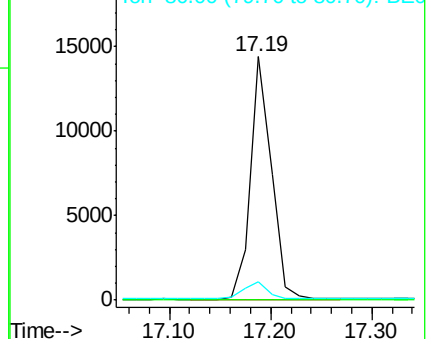
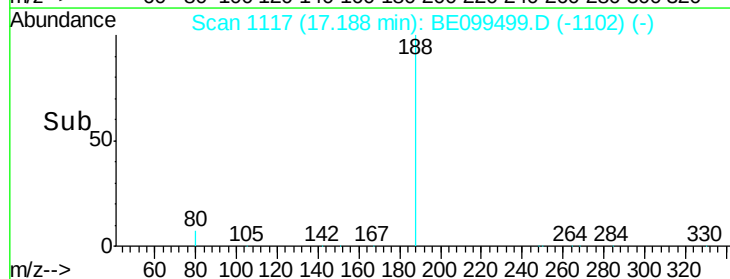
80 7.6 6.7 10.1

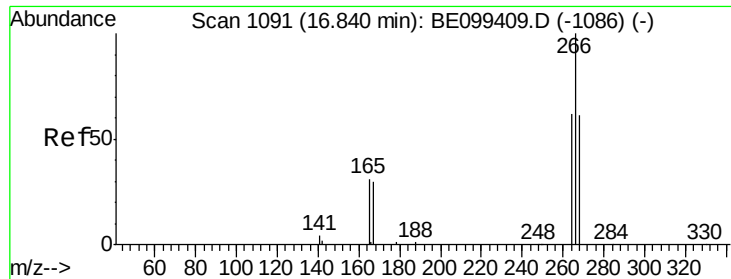


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

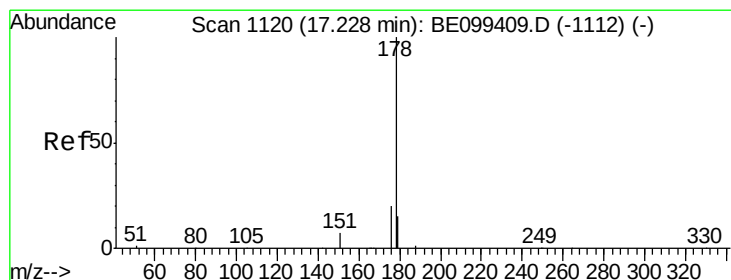
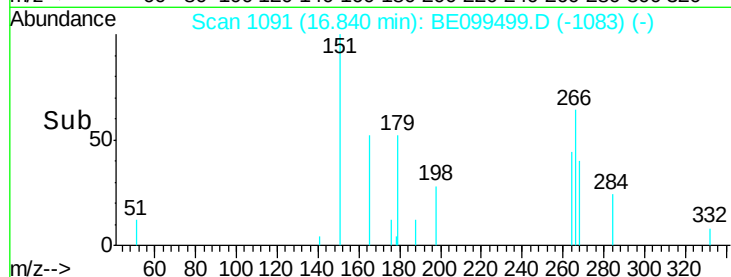
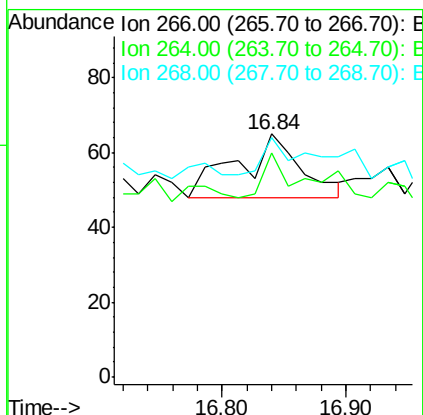
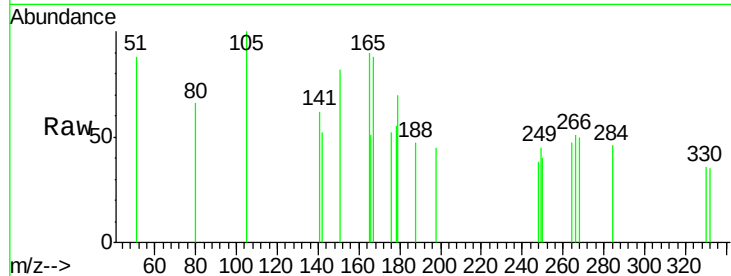




#22
 Pentachlorophenol
 Concen: 0.225 ng
 RT: 16.84 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: BE099499.D
 Acq: 2 May 2019 18:44

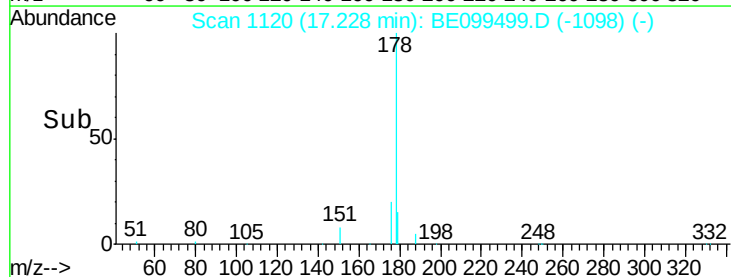
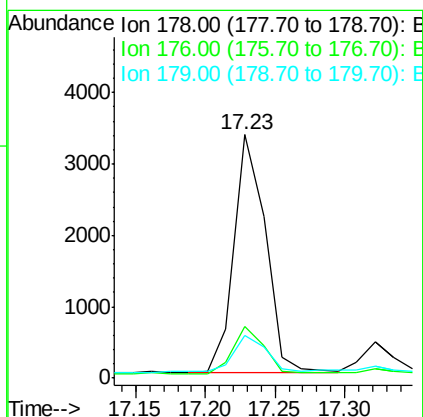
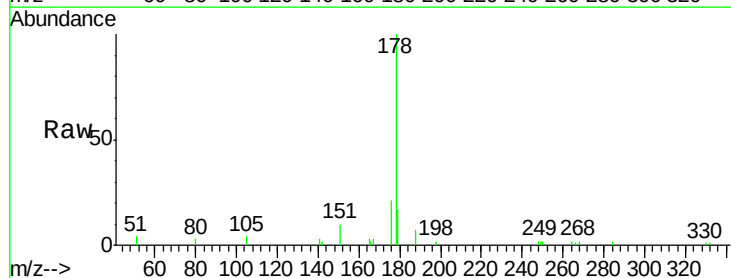
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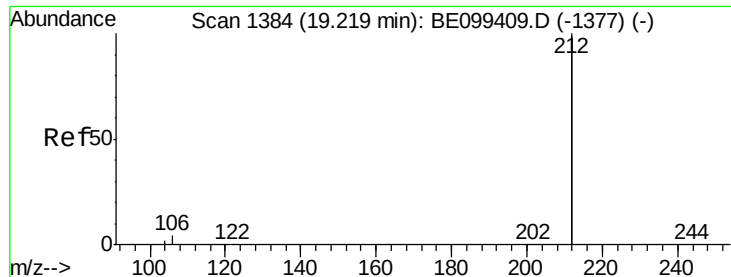
Tot Ion:266 Resp: 60
 Ion Ratio Lower Upper
 266 100
 264 92.3 50.8 76.2#
 268 98.5 50.5 75.7#



#23
 Phenanthrene
 Concen: 0.096 ng
 RT: 17.23 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: BE099499.D
 Acq: 2 May 2019 18:44

Tgt Ion:178 Resp: 5164
 Ion Ratio Lower Upper
 178 100
 176 20.1 15.6 23.4
 179 17.8 12.0 18.0





#25

Fluoranthene-d10

Concen: 0.283 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

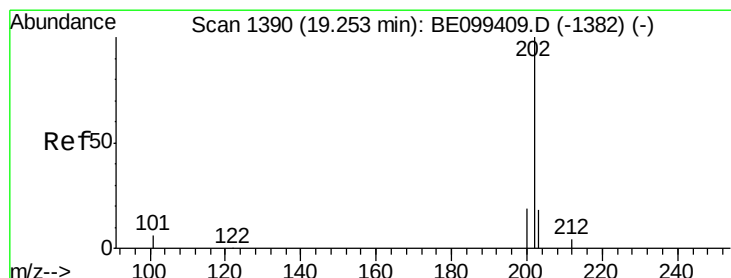
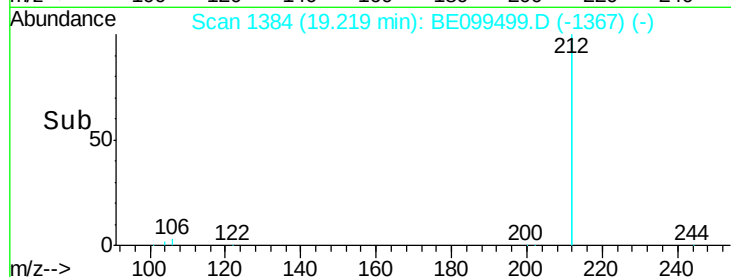
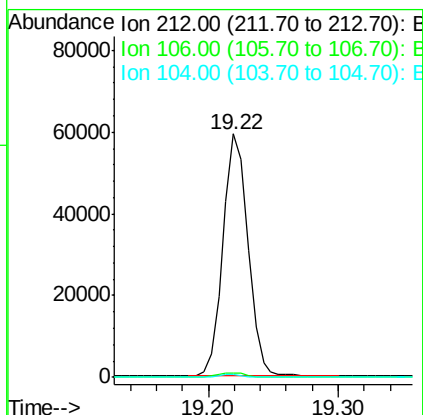
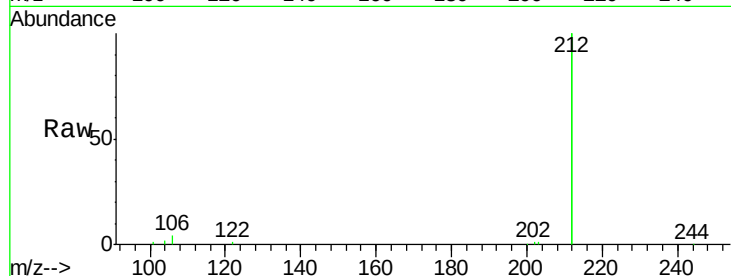
Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

Tot Ion:212	Resp:	79241
Ion	Ratio	Lower Upper
212	100	
106	1.8	1.5 2.3
104	1.1	0.9 1.3



#26

Fluoranthene

Concen: 0.300 ng

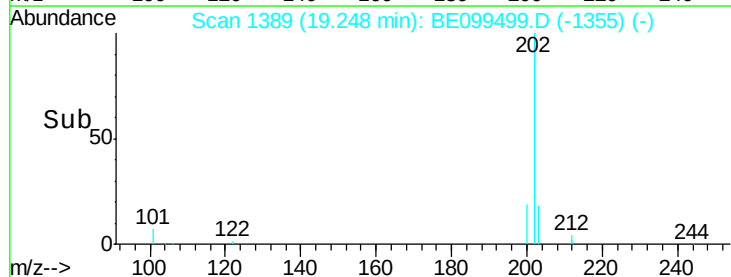
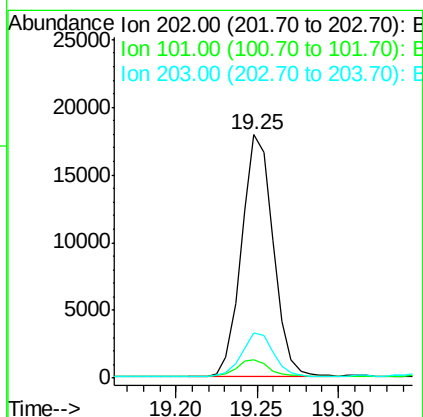
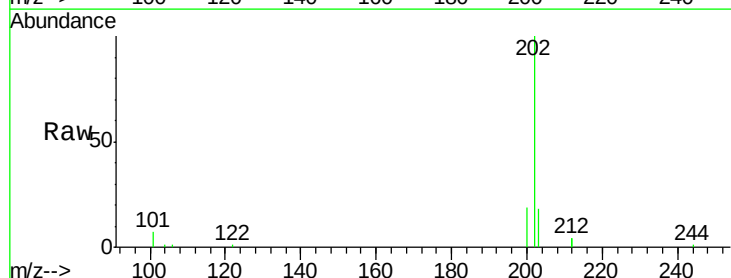
RT: 19.25 min Scan# 1389

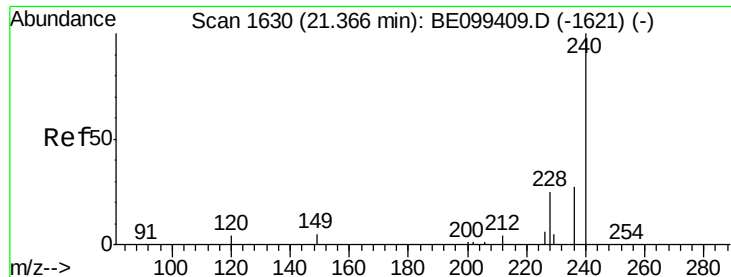
Delta R.T. -0.01 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Tgt Ion:202	Resp:	24144
Ion	Ratio	Lower Upper
202	100	
101	7.0	5.4 8.0
203	17.7	13.9 20.9





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

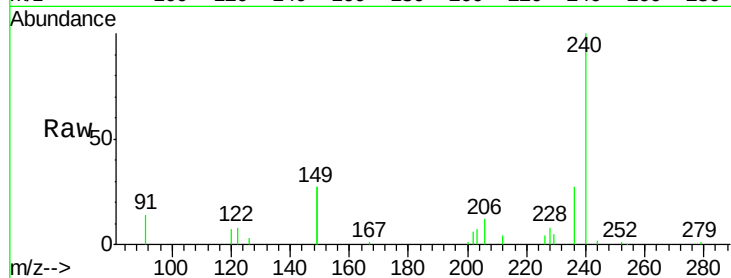
Tot Ion:240 Resp: 31074

Ion Ratio Lower Upper

240 100

120 7.0 4.0 6.0#

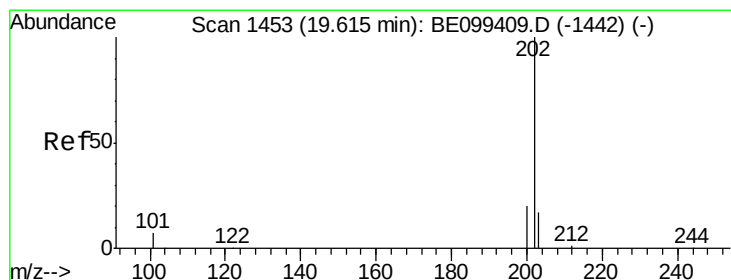
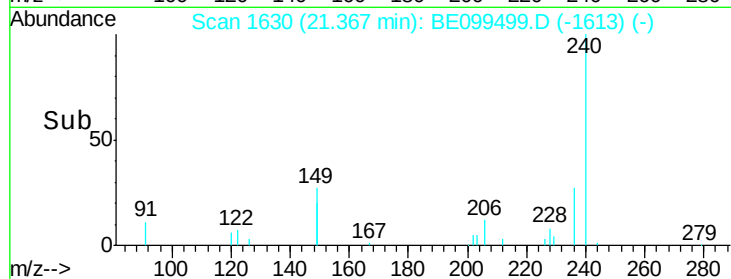
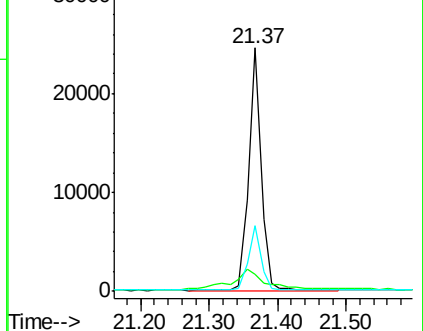
236 27.2 22.0 33.0



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: 0.278 ng

RT: 19.62 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

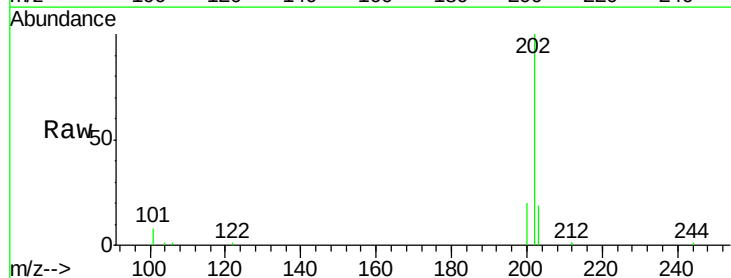
Tgt Ion:202 Resp: 22482

Ion Ratio Lower Upper

202 100

200 19.7 15.7 23.5

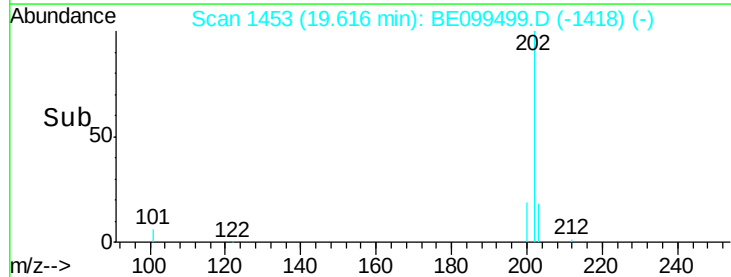
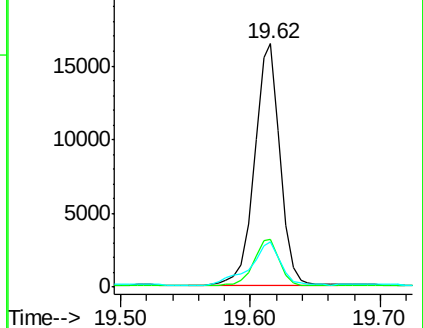
203 21.3 13.9 20.9#

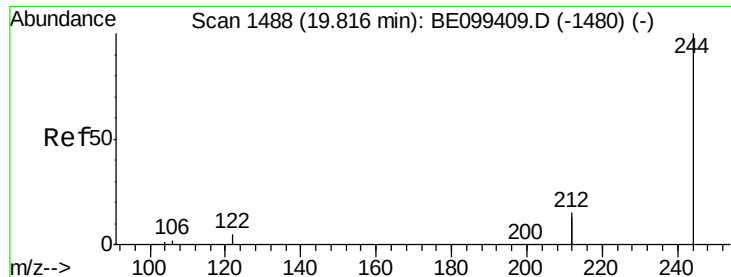


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.286 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

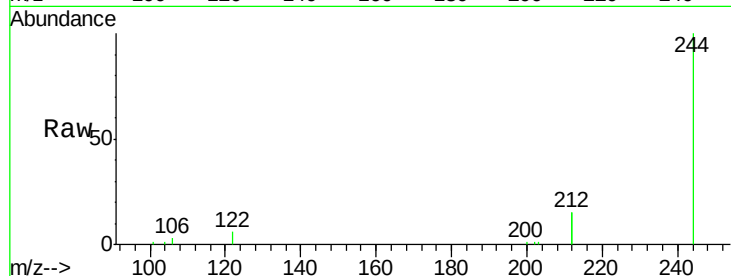
Tot Ion:244 Resp: 16256

Ion Ratio Lower Upper

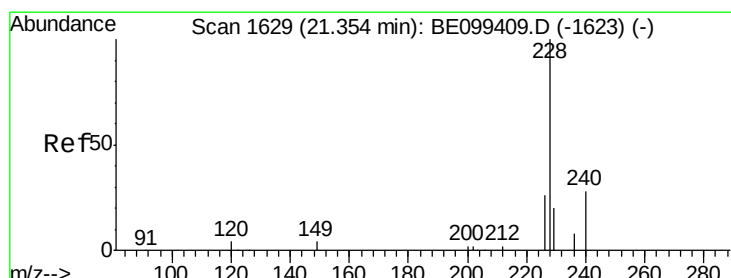
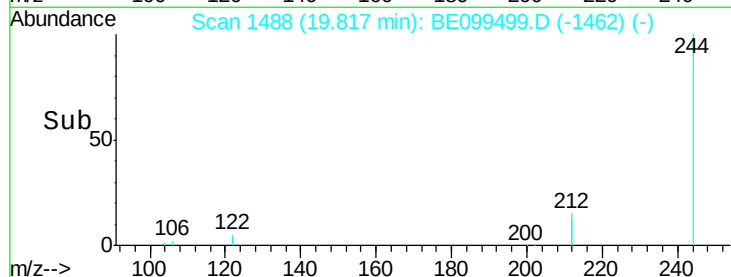
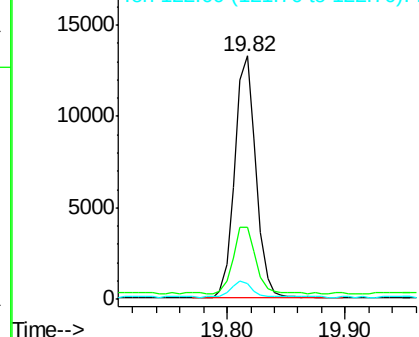
244 100

212 29.6 23.2 34.8

122 6.2 4.2 6.4



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: 0.176 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.05 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

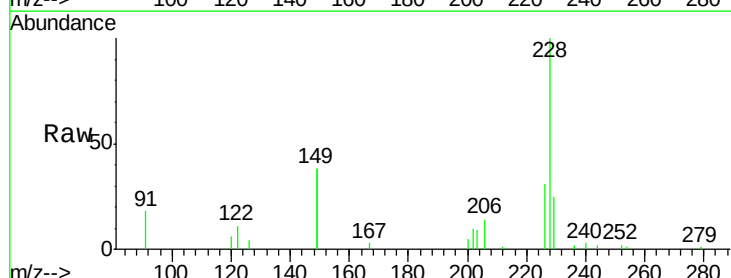
Tgt Ion:228 Resp: 17471

Ion Ratio Lower Upper

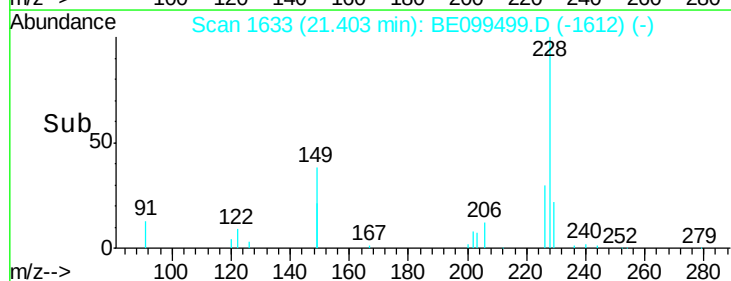
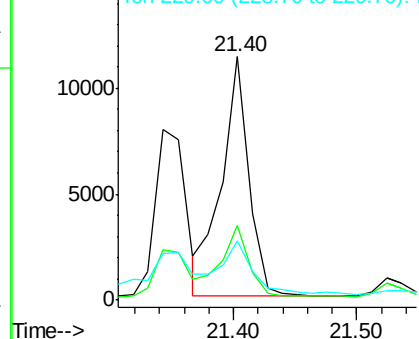
228 100

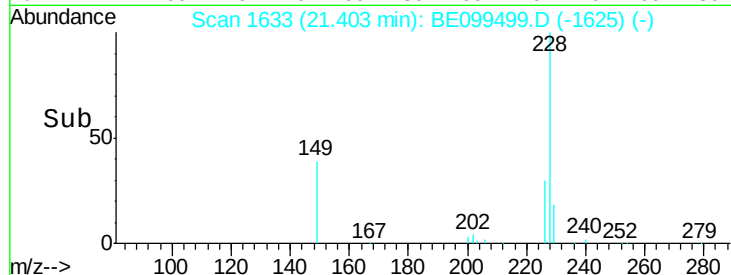
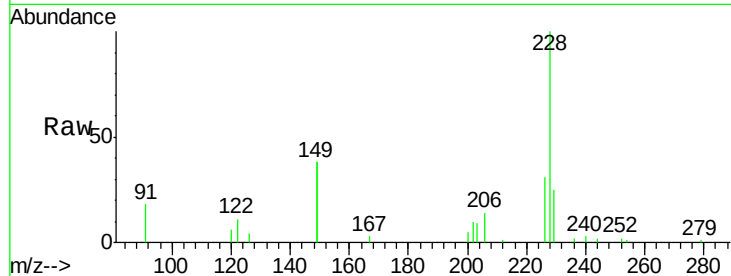
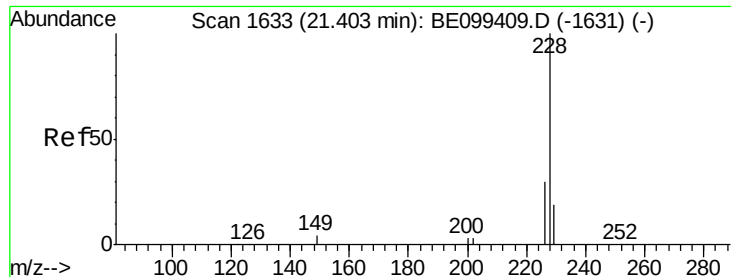
226 30.8 21.0 31.6

229 24.5 16.6 25.0



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: 0.179 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

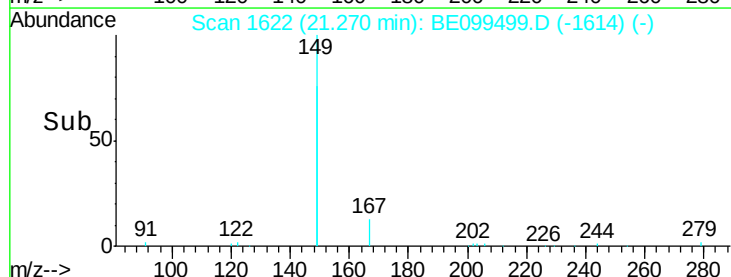
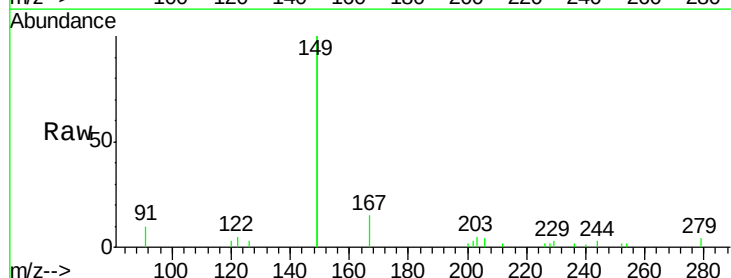
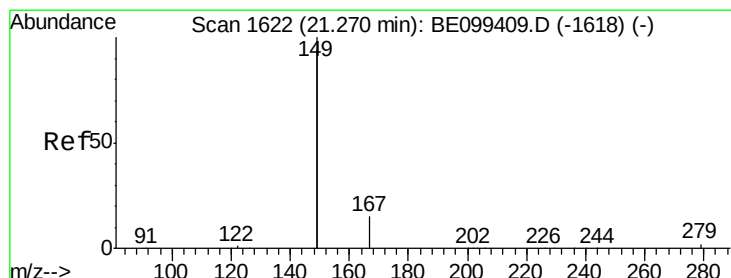
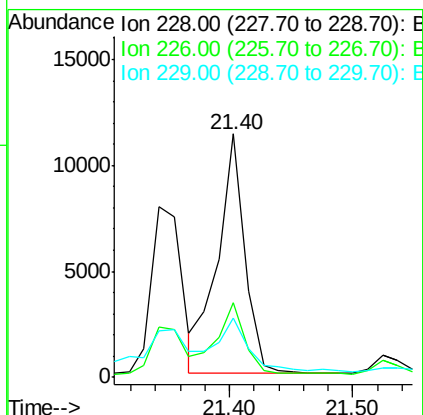
Tot Ion:228 Resp: 17334

Ion Ratio Lower Upper

228 100

226 30.8 24.0 36.0

229 24.5 15.8 23.8#



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.096 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

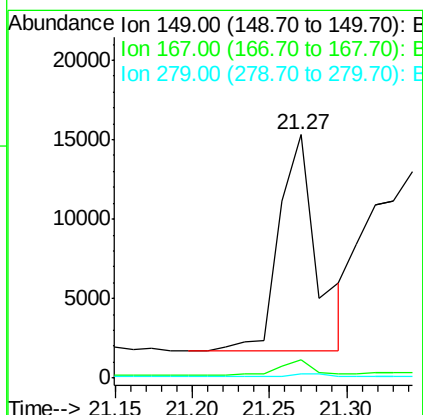
Tgt Ion:149 Resp: 23475

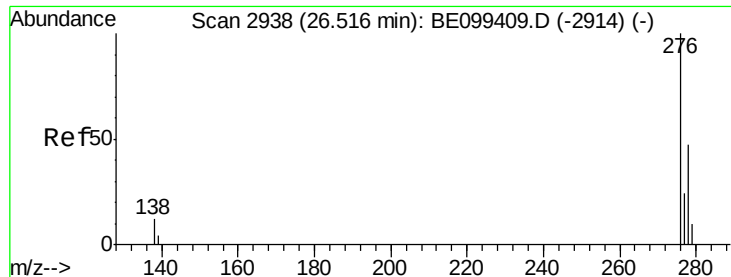
Ion Ratio Lower Upper

149 100

167 5.8 5.8 8.6#

279 1.1 1.0 1.6





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.096 ng

RT: 26.51 min Scan# 2937

Delta R.T. -0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

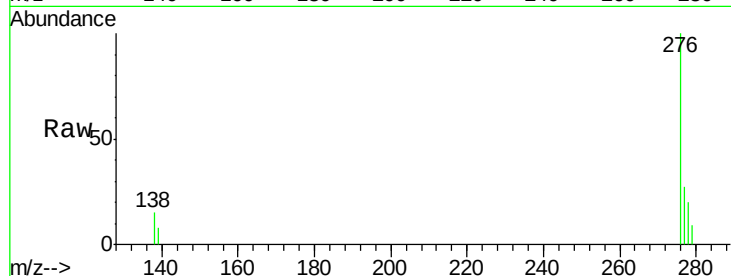
Tot Ion:276 Resp: 11027

Ion Ratio Lower Upper

276 100

138 11.7 10.2 15.2

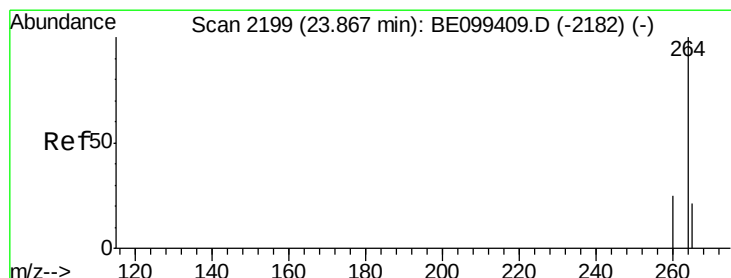
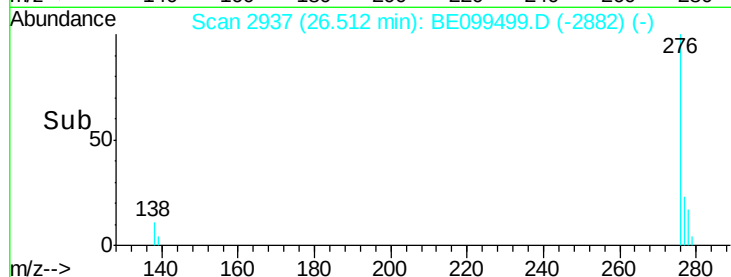
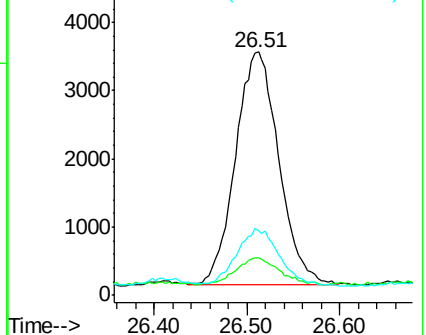
277 24.9 19.2 28.8



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: 23.87 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

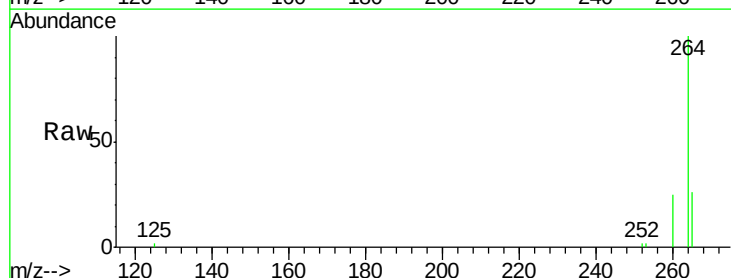
Tgt Ion:264 Resp: 35292

Ion Ratio Lower Upper

264 100

260 24.8 20.2 30.2

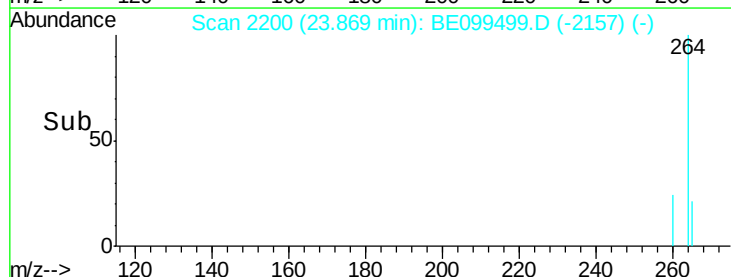
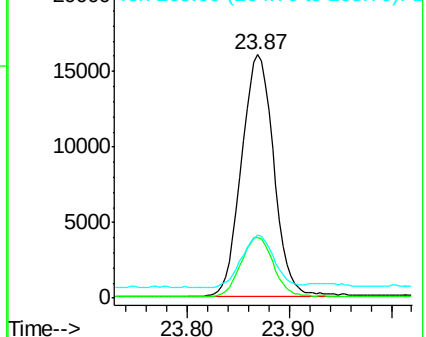
265 25.7 21.3 31.9

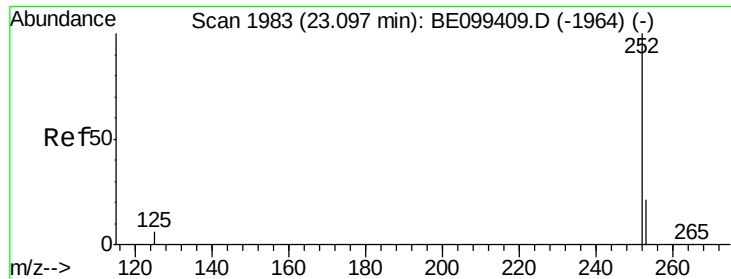


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

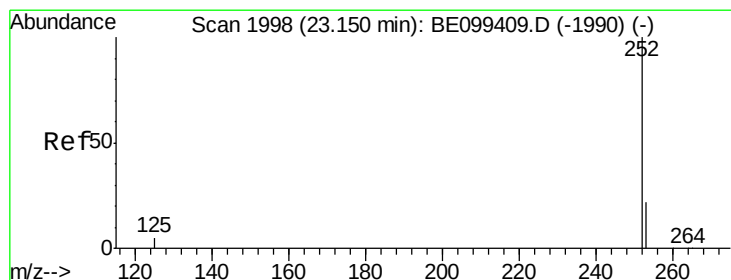
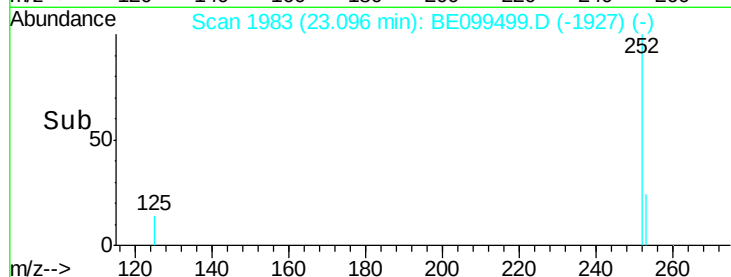
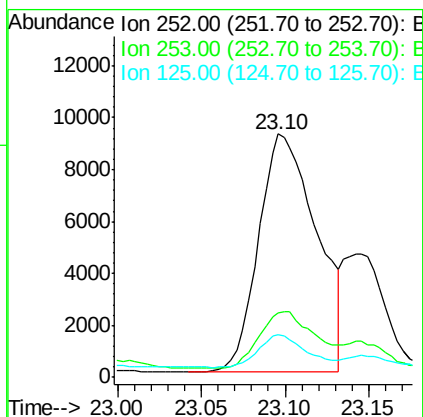
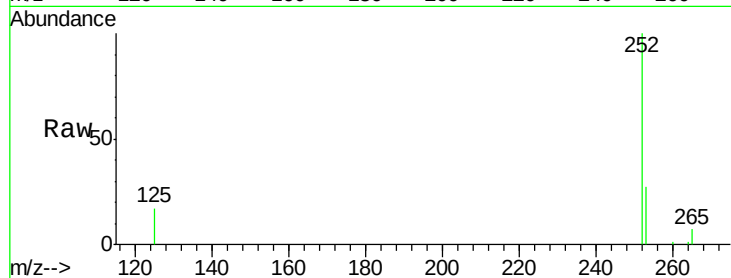




#35
Benzo(b)fluoranthene
Concen: 0.218 ng
RT: 23.10 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BE099499.D
Acq: 2 May 2019 18:44

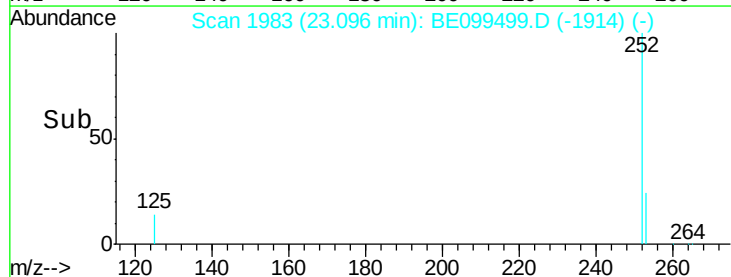
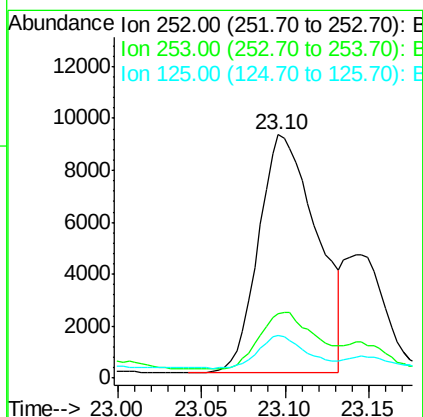
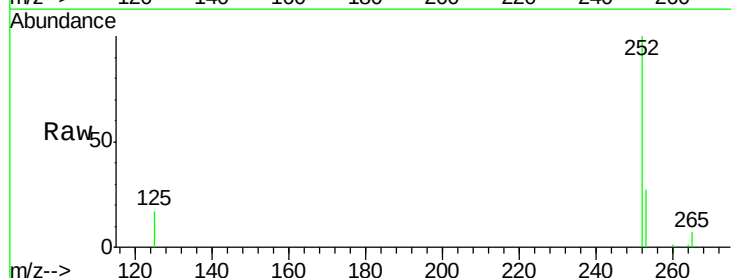
Instrument :
BNA_E
ClientSampleId :
PST-025-B031-042219

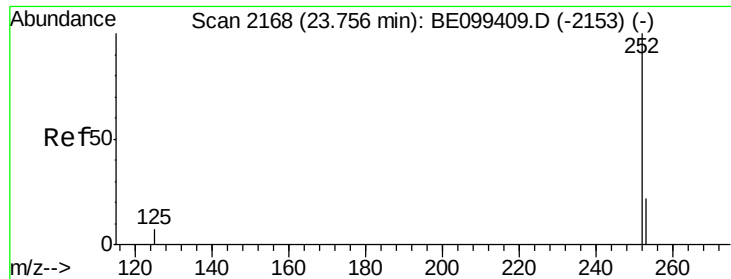
Tot Ion:252 Resp: 22197
Ion Ratio Lower Upper
252 100
253 26.7 18.1 27.1
125 17.3 5.6 8.4#



#36
Benzo(k)fluoranthene
Concen: 0.226 ng
RT: 23.10 min Scan# 1983
Delta R.T. -0.05 min
Lab File: BE099499.D
Acq: 2 May 2019 18:44

Tgt Ion:252 Resp: 22197
Ion Ratio Lower Upper
252 100
253 26.7 18.4 27.6
125 17.3 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.147 ng

RT: 23.76 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219

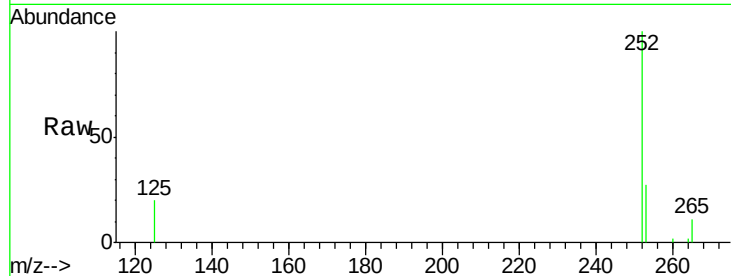
Tot Ion:252 Resp: 14183

Ion Ratio Lower Upper

252 100

253 27.4 18.9 28.3

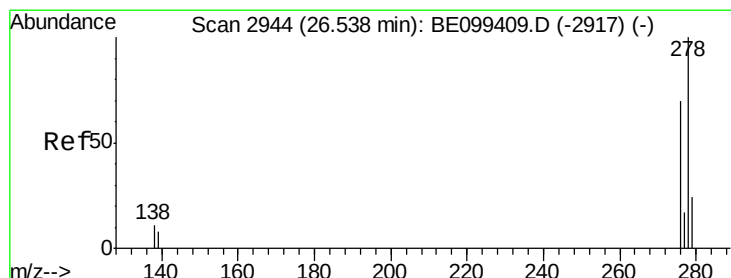
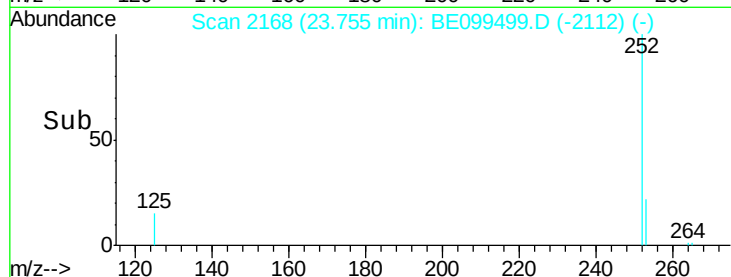
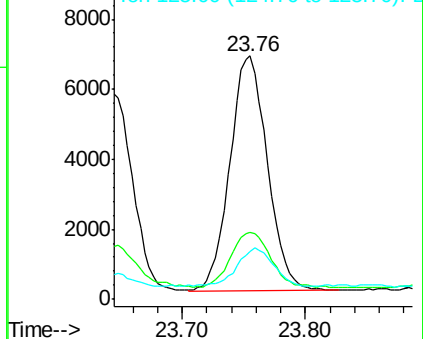
125 19.9 6.7 10.1#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.027 ng

RT: 26.53 min Scan# 2941

Delta R.T. -0.01 min

Lab File: BE099499.D

Acq: 2 May 2019 18:44

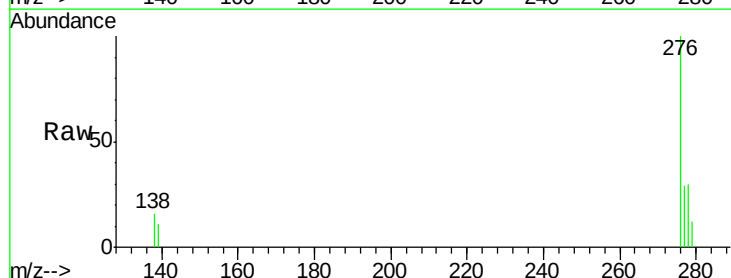
Tgt Ion:278 Resp: 2658

Ion Ratio Lower Upper

278 100

139 38.7 7.7 11.5#

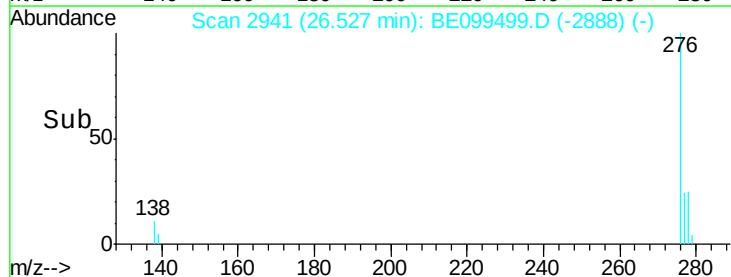
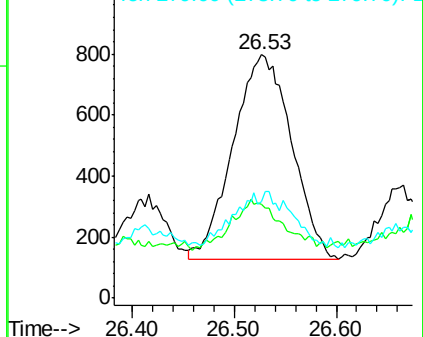
279 39.3 20.2 30.2#

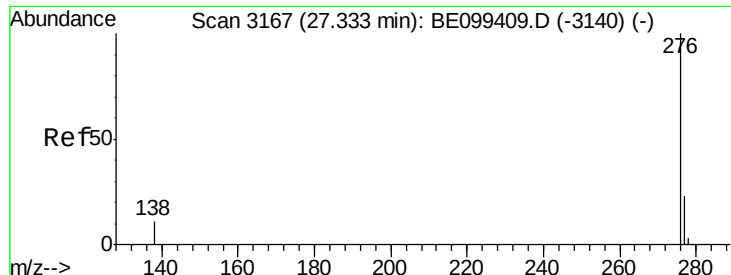


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.114 ng

RT: 27.33 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BE099499.D

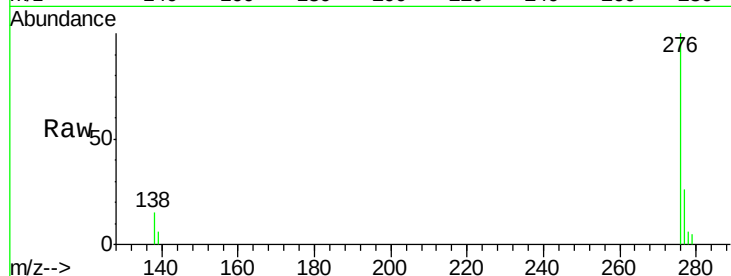
Acq: 2 May 2019 18:44

Instrument :

BNA_E

ClientSampleId :

PST-025-B031-042219



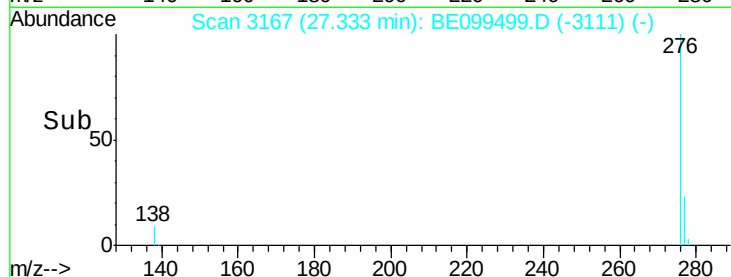
Tot Ion: 276 Resp: 11203

Ion Ratio Lower Upper

276 100

277 26.3 19.5 29.3

138 14.5 9.6 14.4



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

