

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099398.D
 Acq On : 27 Apr 2019 3:44
 Operator : JU/SJ
 Sample : K2533-16
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW022-042219

Quant Time: Apr 27 05:10:26 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 19 06:51:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	3397	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	13936	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	9903	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	27525	0.40	ng	0.01
27) Chrysene-d12	21.37	240	30481	0.40	ng	0.00
34) Perylene-d12	23.88	264	35250	0.40	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	3776	0.45	ng	0.01
5) Phenol-d6	6.98	99	5409	0.46	ng	0.00
8) Nitrobenzene-d5	8.98	82	4910	0.45	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	9344	0.38	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2353	0.72	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	13568	0.35	ng	0.00
25) Fluoranthene-d10	19.22	212	117242	0.35	ng	0.00
29) Terphenyl-d14	19.82	244	20264	0.34	ng	0.00

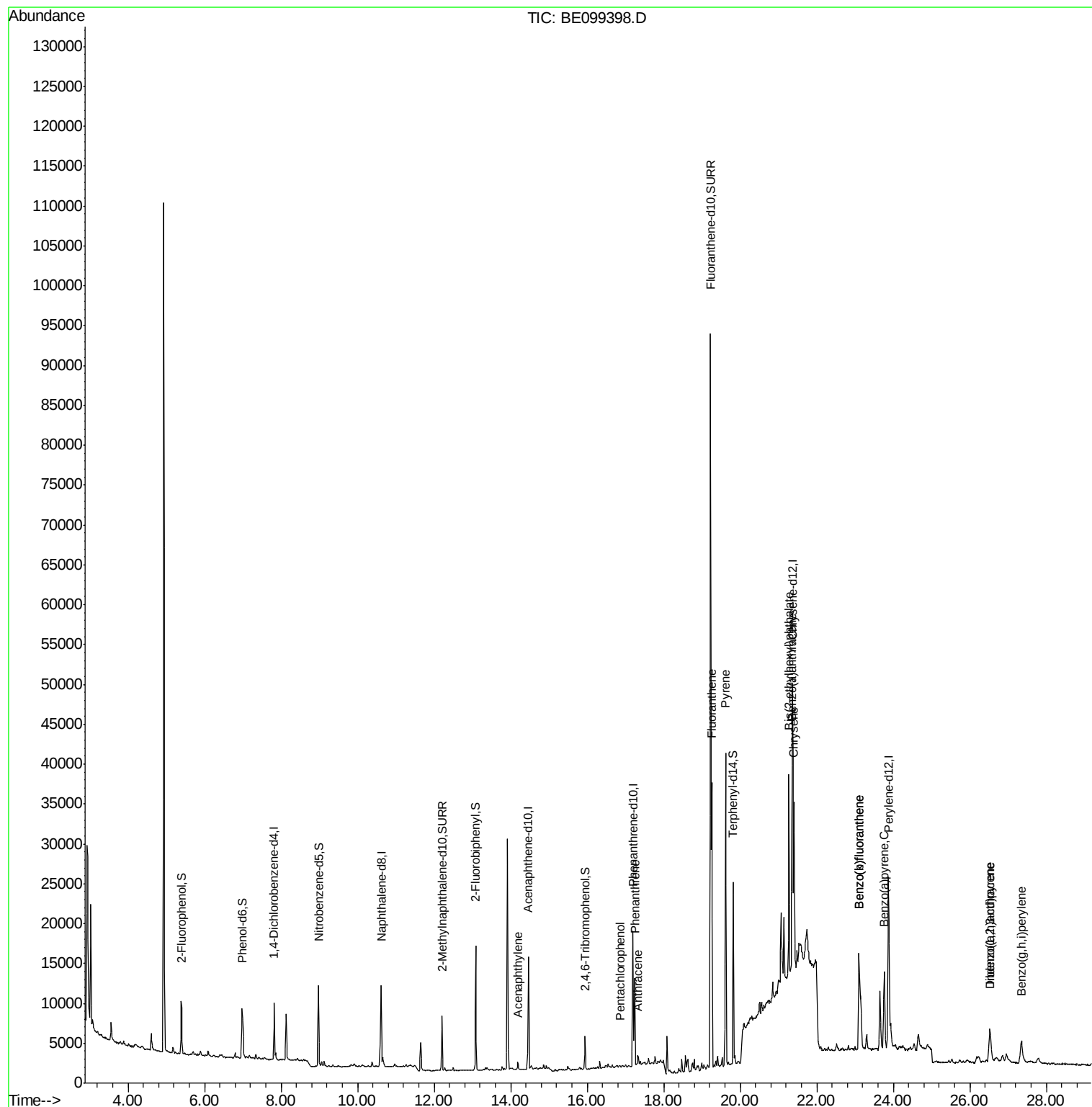
Target Compounds				Qvalue		
16) Acenaphthylene	14.18	152	1282	0.029	ng	# 93
22) Pentachlorophenol	16.85	266	40	0.227	ng	# 78
23) Phenanthrene	17.24	178	12836	0.176	ng	# 98
24) Anthracene	17.32	178	1829	0.028	ng	# 92
26) Fluoranthene	19.25	202	32446	0.333	ng	# 98
28) Pyrene	19.61	202	37741	0.420	ng	# 96
30) Benzo(a)anthracene	21.35	228	20322	0.227	ng	# 90
31) Chrysene	21.40	228	21696	0.228	ng	# 90
32) Bis(2-ethylhexyl)phthalate	21.27	149	26294	0.322	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.52	276	9378	0.100	ng	# 95
35) Benzo(b)fluoranthene	23.11	252	24551	0.227	ng	# 78
36) Benzo(k)fluoranthene	23.11	252	24551	0.228	ng	# 81
37) Benzo(a)pyrene	23.76	252	16624	0.172	ng	# 77
38) Dibenzo(a,h)anthracene	26.55	278	2593	0.026	ng	# 2
39) Benzo(g,h,i)perylene	27.35	276	8785	0.088	ng	# 75

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. 0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

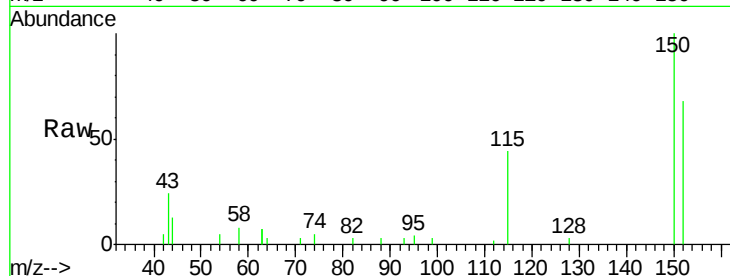
Tot Ion:152 Resp: 3397

Ion Ratio Lower Upper

152 100

150 146.5 119.5 179.3

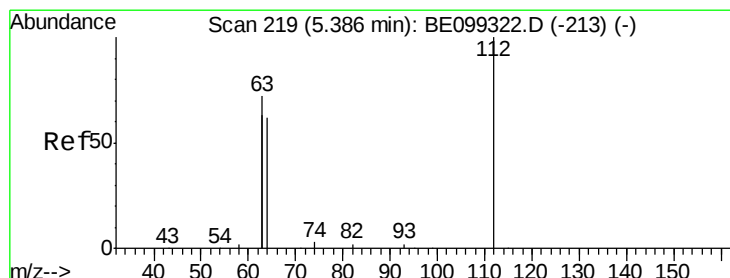
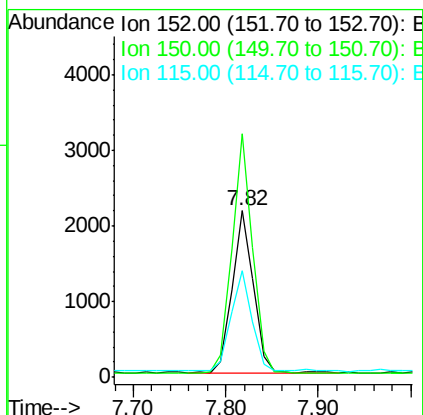
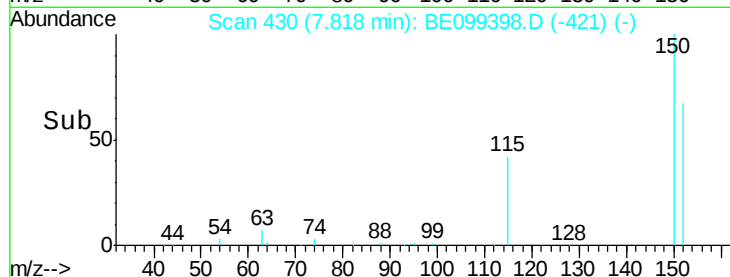
115 64.1 47.5 71.3



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



#4

2-Fluorophenol

Concen: 0.455 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

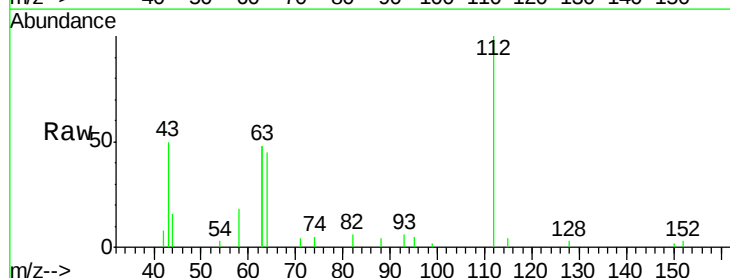
Tgt Ion:112 Resp: 3776

Ion Ratio Lower Upper

112 100

64 57.4 44.9 67.3

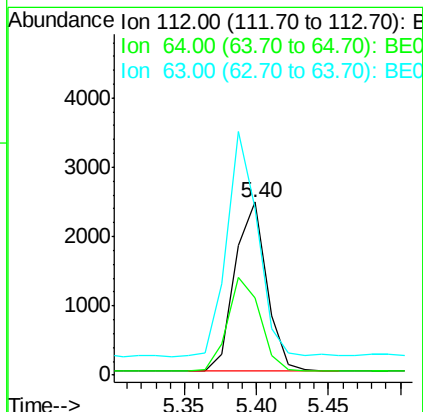
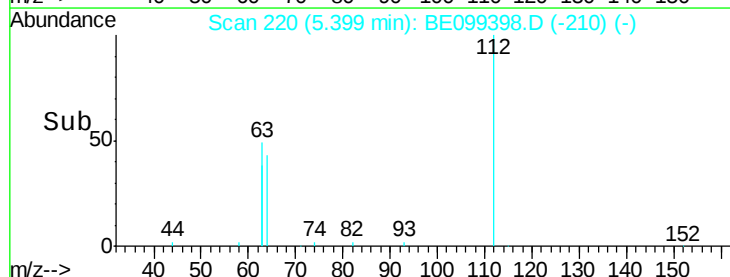
63 127.0 97.4 146.0

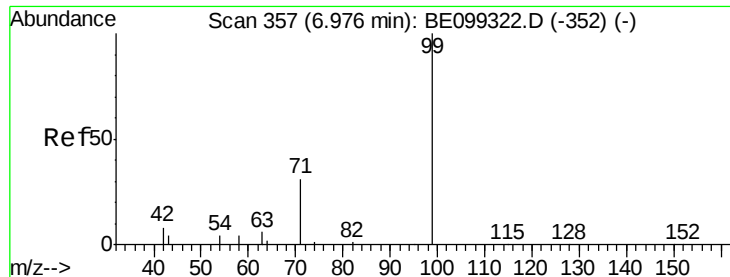


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.457 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

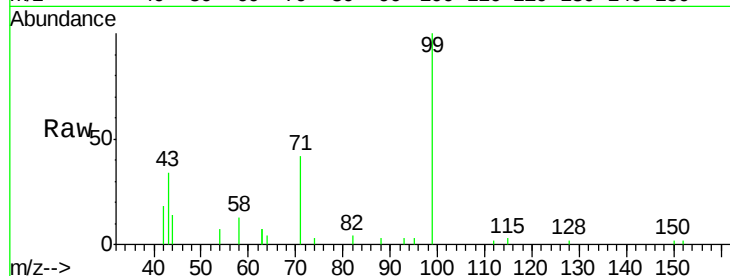
Tot Ion: 99 Resp: 5409

Ion Ratio Lower Upper

99 100

42 18.8 11.7 17.5#

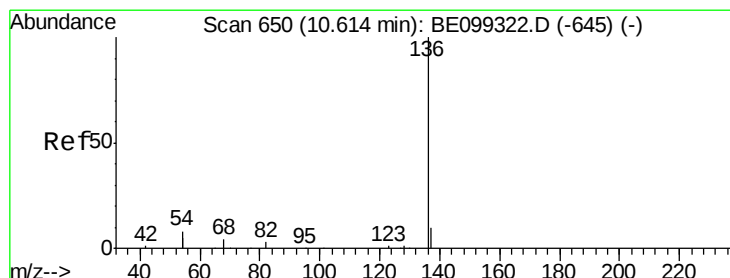
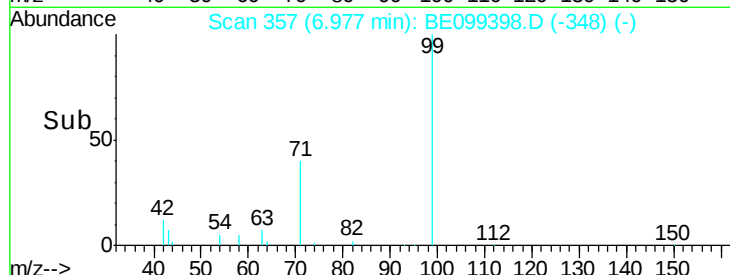
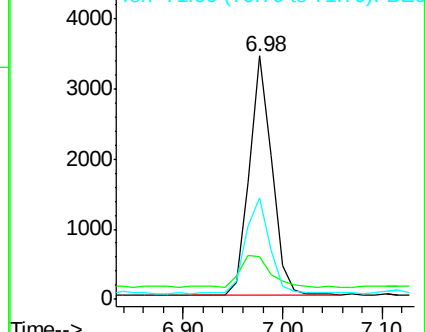
71 42.6 29.6 44.4



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: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Tgt Ion: 136 Resp: 13936

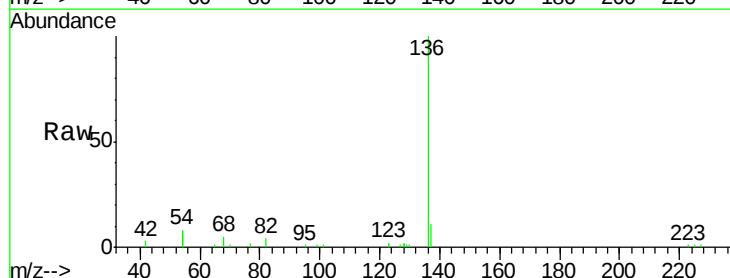
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 16.3 23.8 35.8#

68 4.6 6.4 9.6#

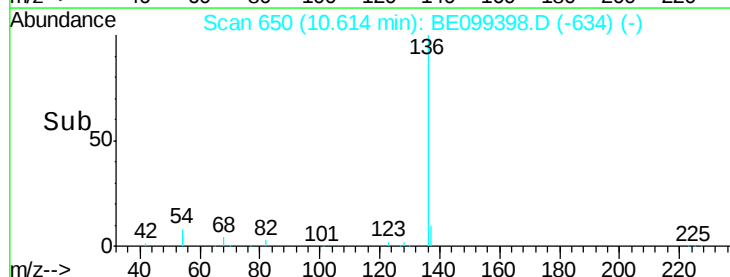
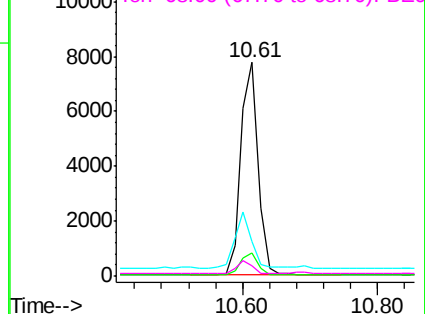


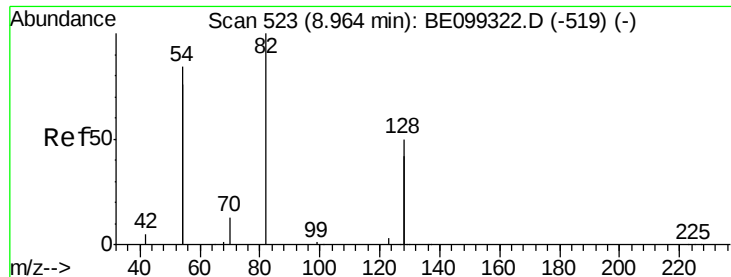
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

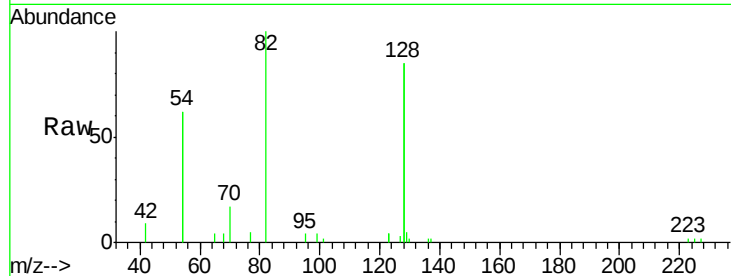




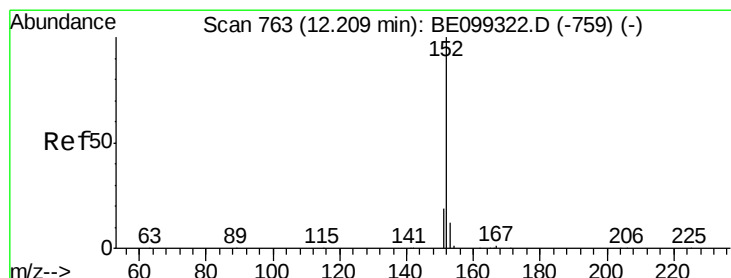
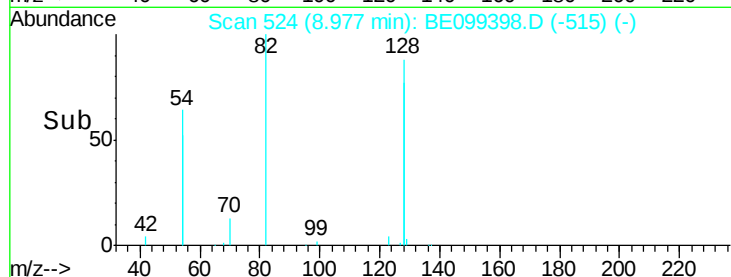
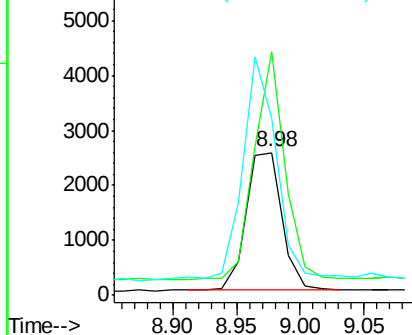
#8
 Nitrobenzene-d5
 Concen: 0.454 ng
 RT: 8.98 min Scan# 524
 Delta R.T. 0.01 min
 Lab File: BE099398.D
 Acq: 27 Apr 2019 3:44

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW022-042219

Tot Ion: 82 Resp: 4910
 Ion Ratio Lower Upper
 82 100
 128 170.7 91.7 137.5#
 54 124.6 122.8 184.2

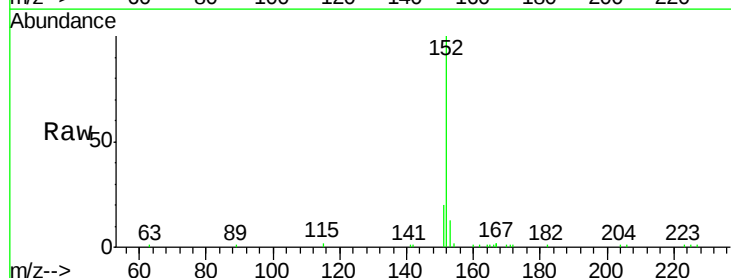


Abundance Ion 82.00 (81.70 to 82.70): BE0
 Ion 128.00 (127.70 to 128.70): BE0
 Ion 54.00 (53.70 to 54.70): BE0

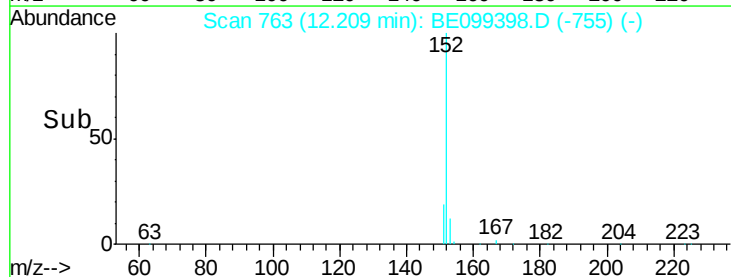
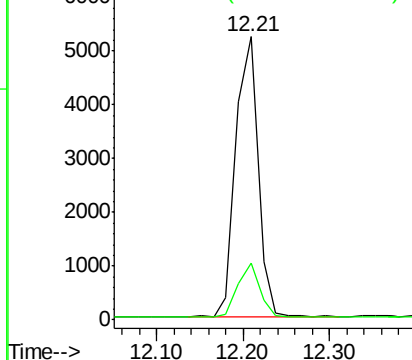


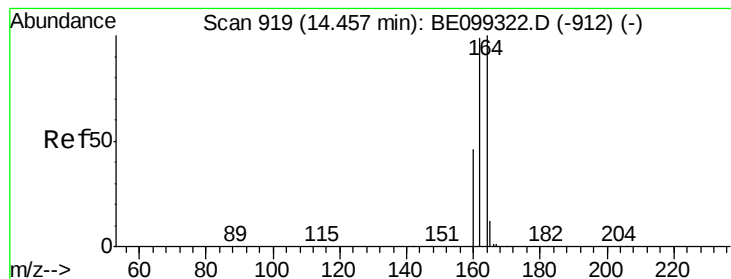
#11
 2-Methylnaphthalene-d10
 Concen: 0.380 ng
 RT: 12.21 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: BE099398.D
 Acq: 27 Apr 2019 3:44

Tgt Ion: 152 Resp: 9344
 Ion Ratio Lower Upper
 152 100
 151 19.0 14.9 22.3



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: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

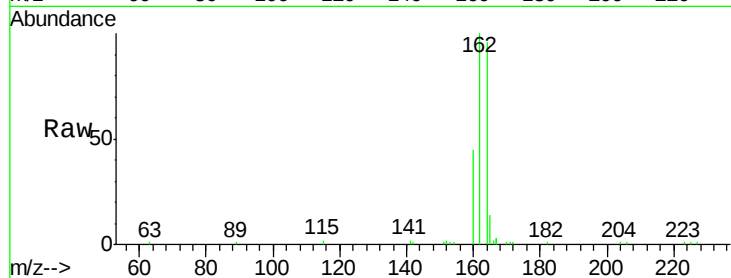
Tot Ion:164 Resp: 9903

Ion Ratio Lower Upper

164 100

162 104.4 77.8 116.6

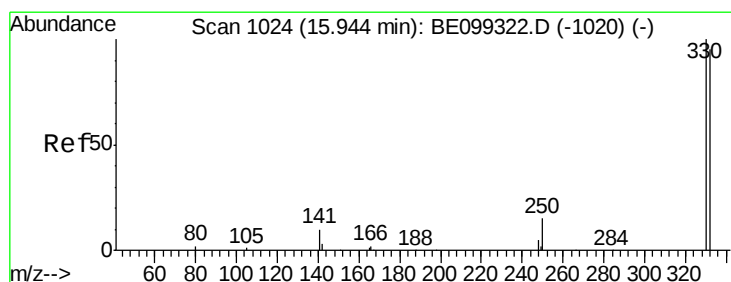
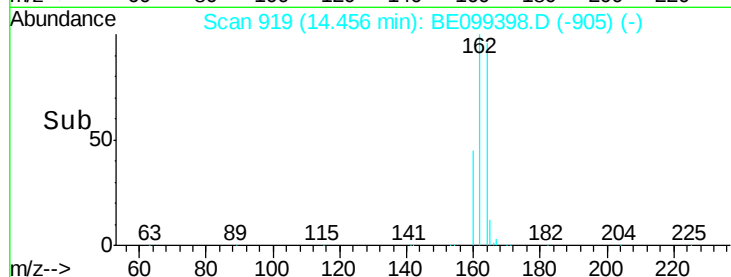
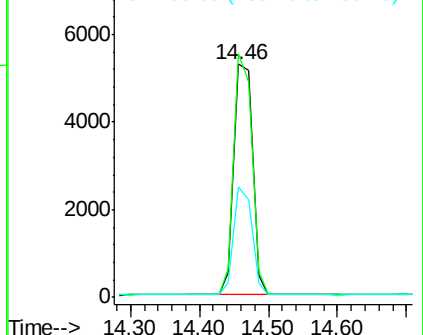
160 47.5 37.1 55.7



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: 0.715 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

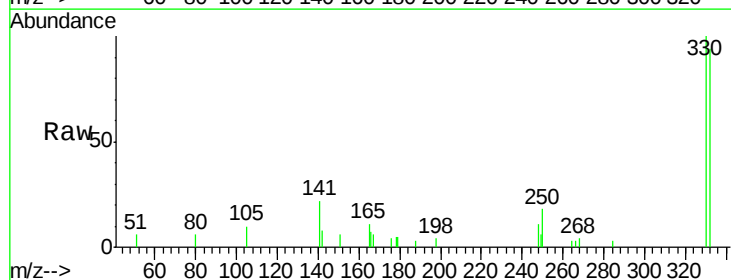
Tgt Ion:330 Resp: 2353

Ion Ratio Lower Upper

330 100

332 96.4 82.5 123.7

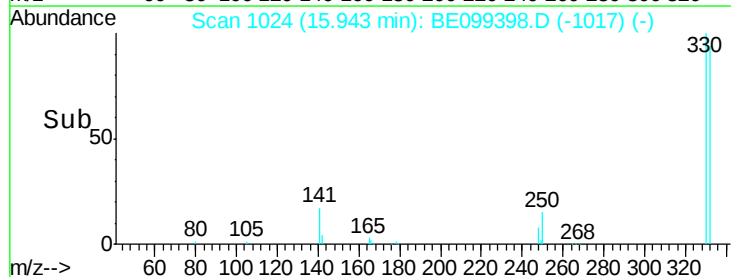
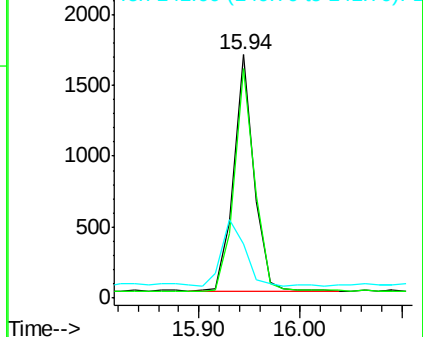
141 31.7 24.9 37.3

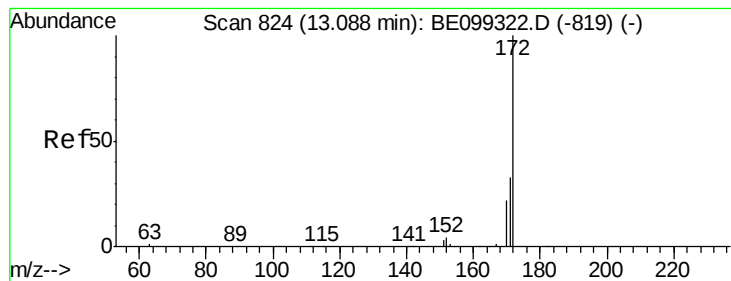


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

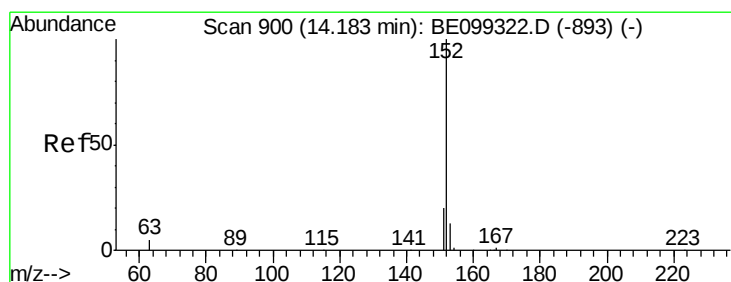
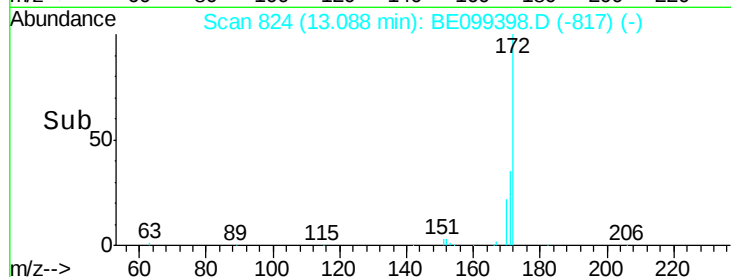
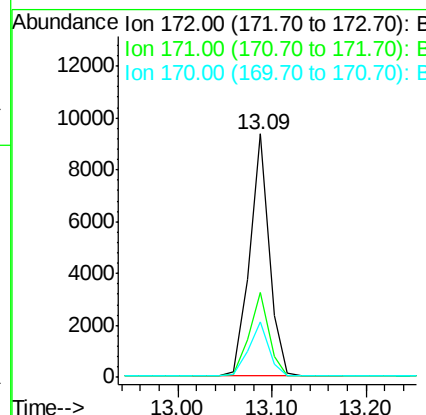
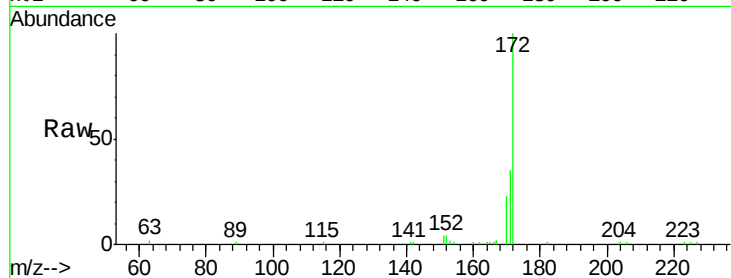




#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099398.D
Acq: 27 Apr 2019 3:44

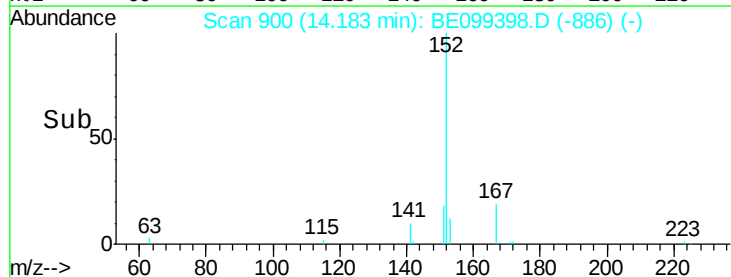
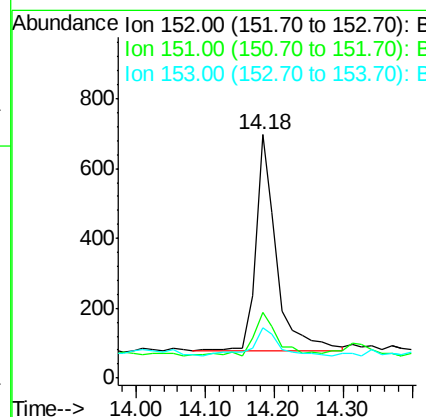
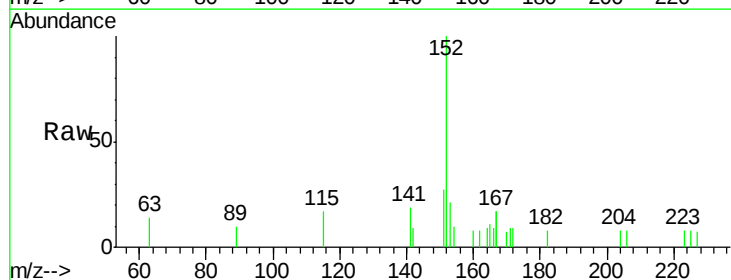
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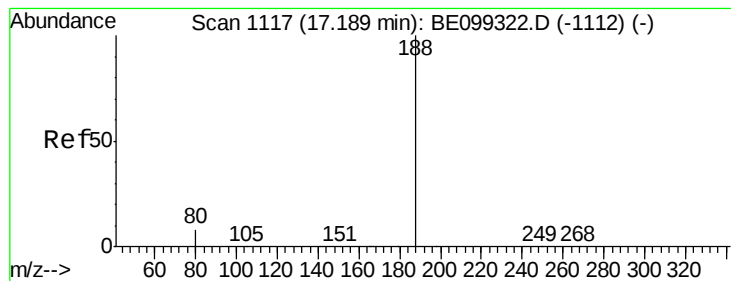
Tot Ion:172 Resp: 13568
Ion Ratio Lower Upper
172 100
171 35.0 26.2 39.2
170 22.9 18.1 27.1



#16
Acenaphthylene
Concen: 0.029 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099398.D
Acq: 27 Apr 2019 3:44

Tgt Ion:152 Resp: 1282
Ion Ratio Lower Upper
152 100
151 22.2 15.5 23.3
153 15.9 10.2 15.4#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

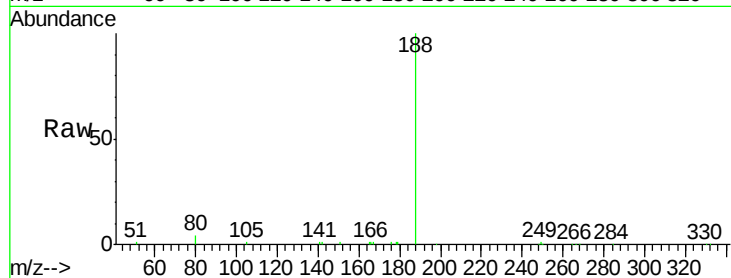
Tot Ion:188 Resp: 27525

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 4.5 6.2 9.4#



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

20000

15000

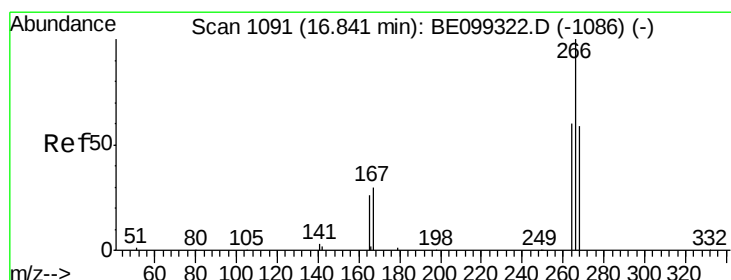
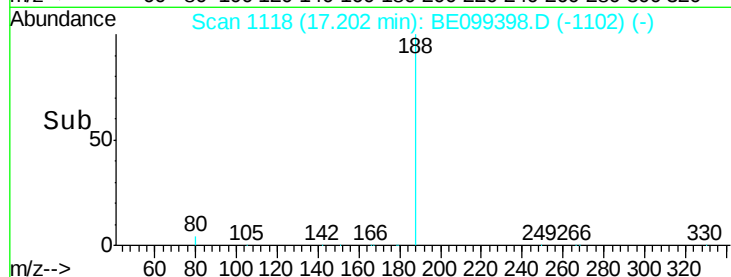
10000

5000

0

17.10 17.20 17.30

Time-->



#22

Pentachlorophenol

Concen: 0.227 ng

RT: 16.85 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

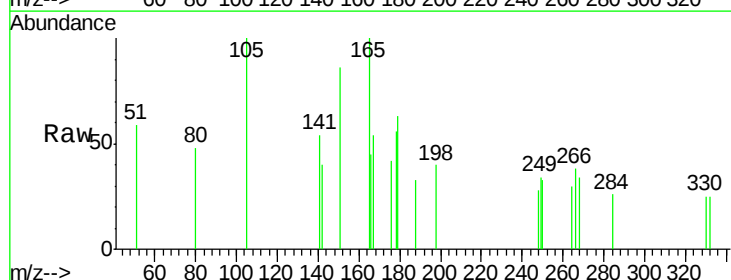
Tgt Ion:266 Resp: 40

Ion Ratio Lower Upper

266 100

264 80.5 54.5 81.7

268 90.9 54.3 81.5#



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

100

80

60

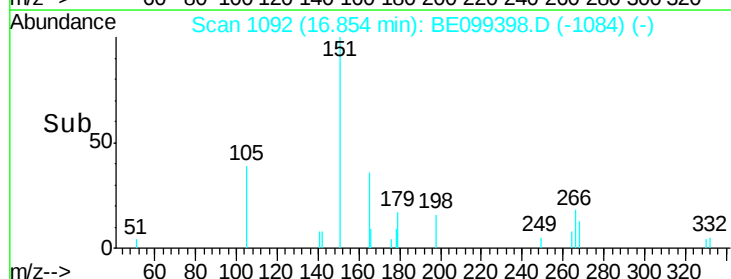
40

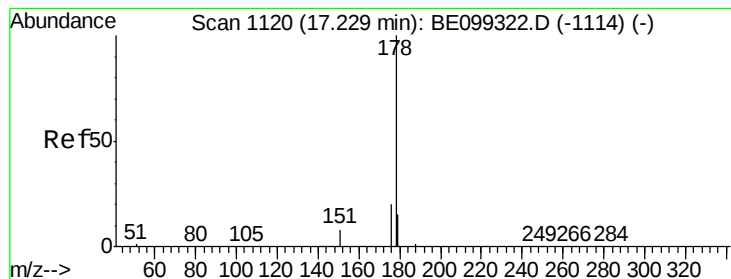
20

0

16.80 16.85 16.90

Time-->





#23

Phenanthrene

Concen: 0.176 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

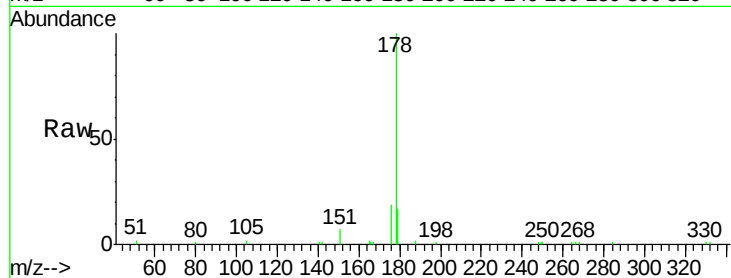
Tot Ion:178 Resp: 12836

Ion Ratio Lower Upper

178 100

176 19.7 15.3 22.9

179 16.8 12.4 18.6

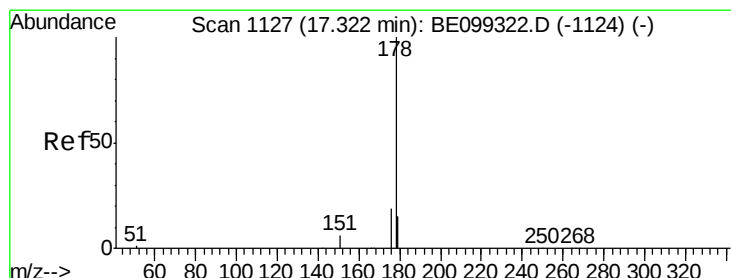
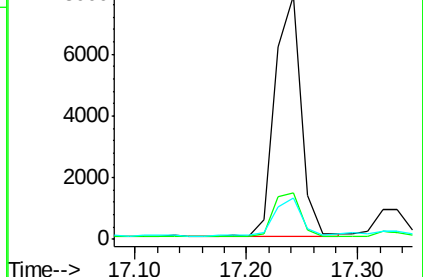
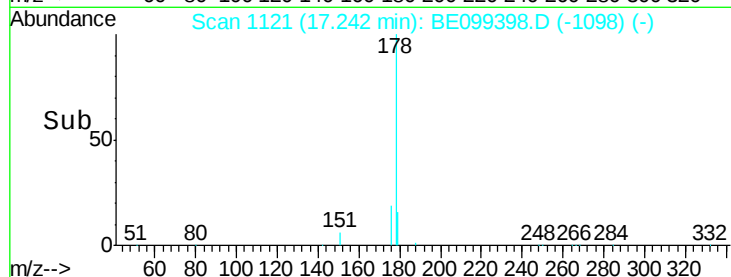


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



#24

Anthracene

Concen: 0.028 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

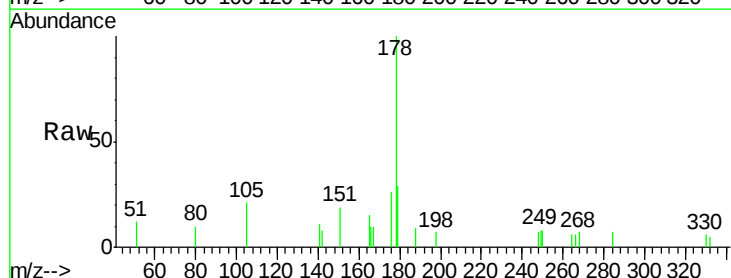
Tgt Ion:178 Resp: 1829

Ion Ratio Lower Upper

178 100

176 22.7 15.1 22.7#

179 11.7 11.9 17.9#

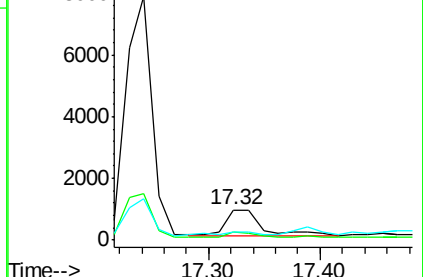
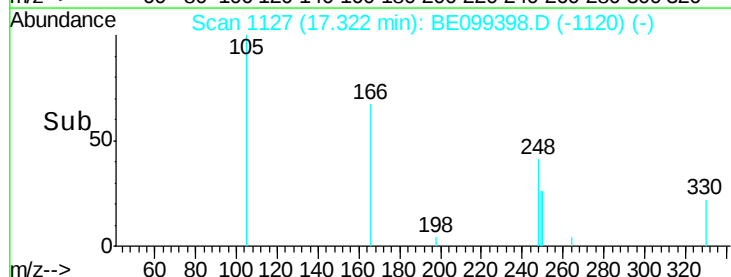


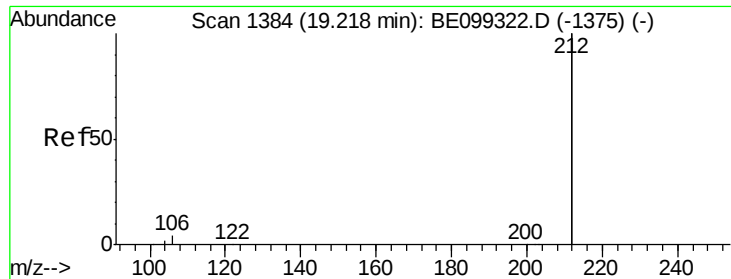
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->

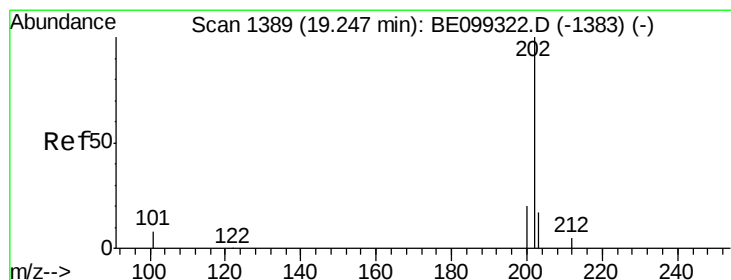
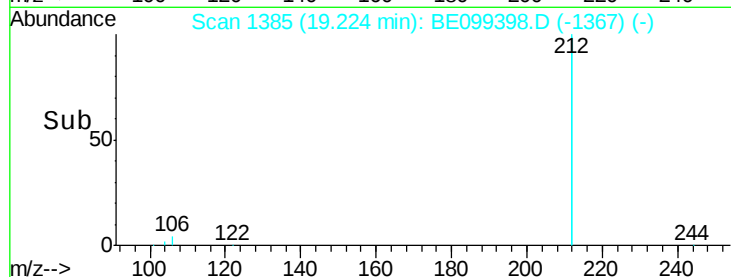
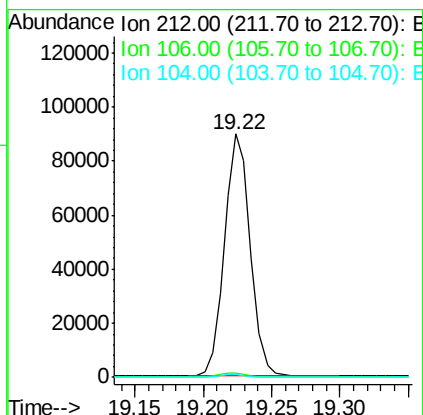
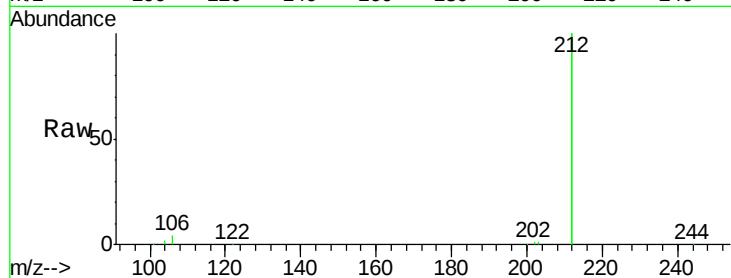




#25
 Fluoranthene-d10
 Concen: 0.355 ng
 RT: 19.22 min Scan# 1385
 Delta R.T. 0.01 min
 Lab File: BE099398.D
 Acq: 27 Apr 2019 3:44

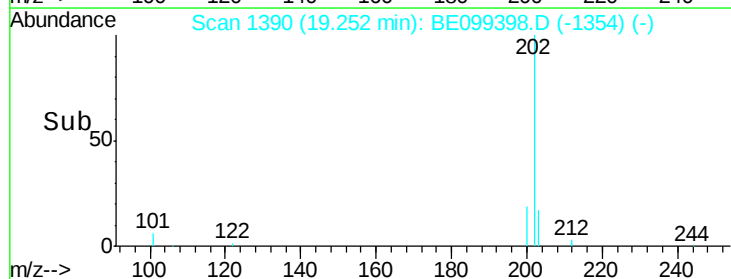
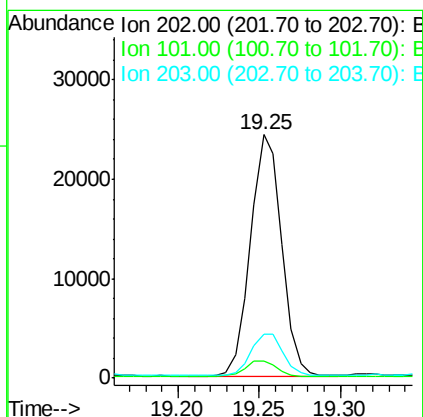
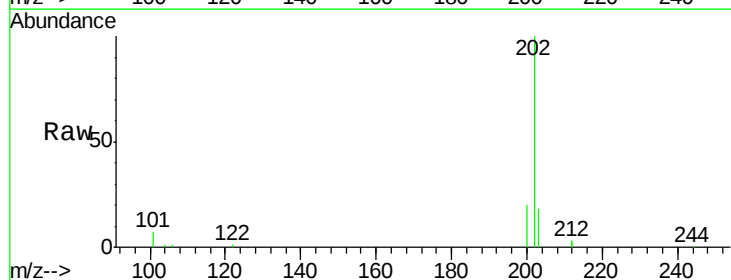
Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW022-042219

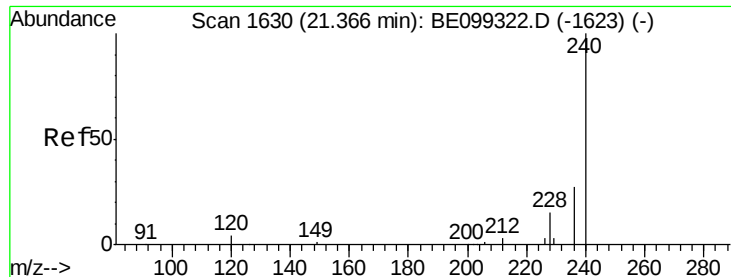
Tot Ion:212 Resp: 117242
 Ion Ratio Lower Upper
 212 100
 106 1.9 1.8 2.6
 104 1.1 1.0 1.4



#26
 Fluoranthene
 Concen: 0.333 ng
 RT: 19.25 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: BE099398.D
 Acq: 27 Apr 2019 3:44

Tgt Ion:202 Resp: 32446
 Ion Ratio Lower Upper
 202 100
 101 6.9 6.4 9.6
 203 17.8 13.5 20.3

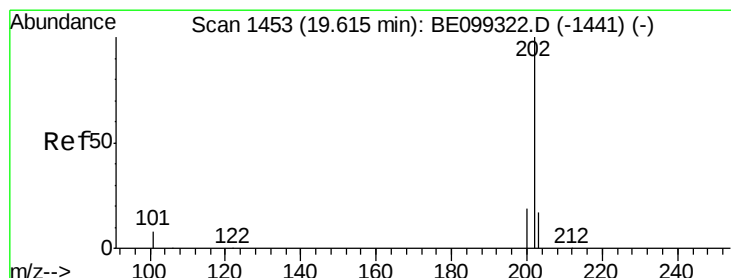
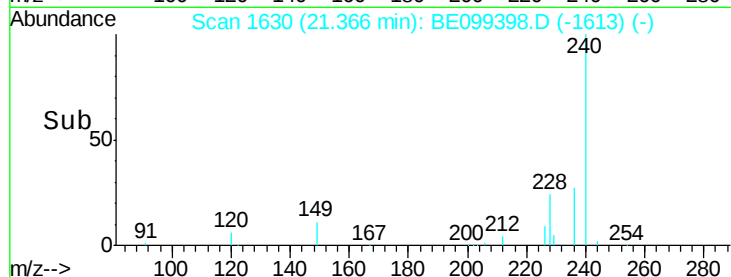
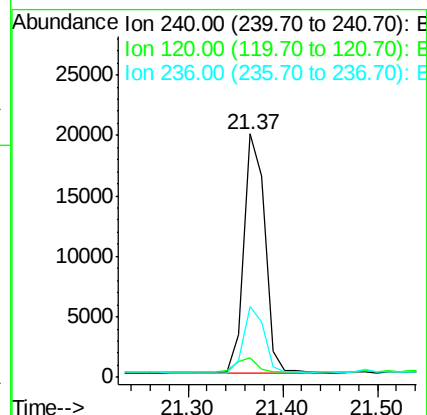
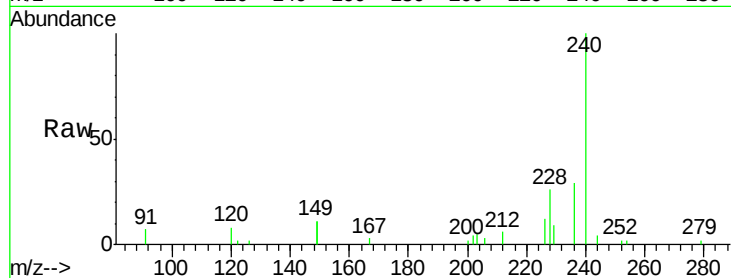




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.00 min
Lab File: BE099398.D
Acq: 27 Apr 2019 3:44

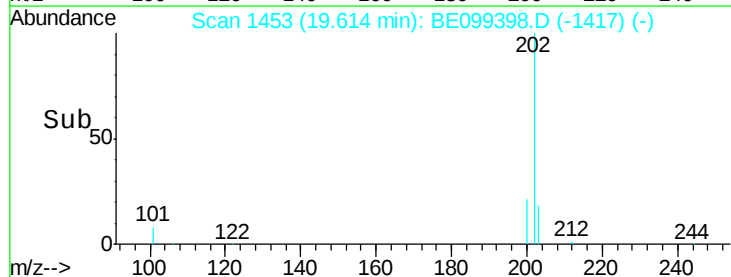
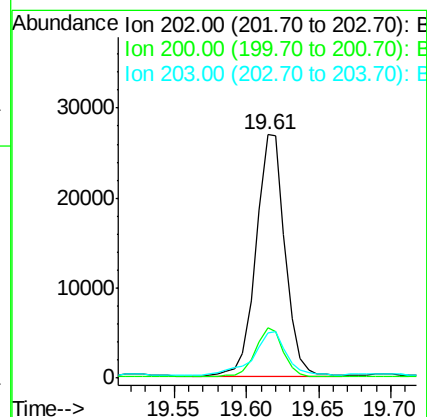
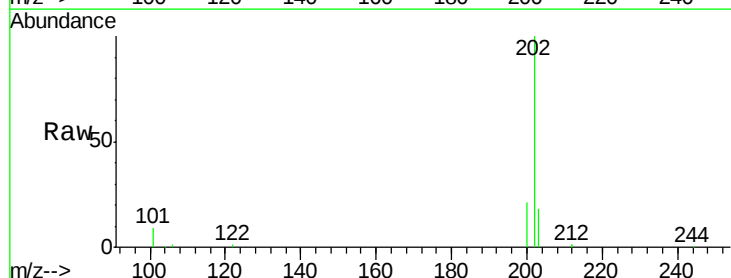
Instrument :
BNA_E
ClientSampleId :
EXT-028-SW022-042219

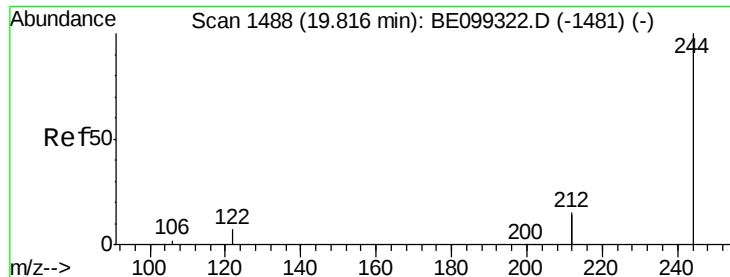
Tot Ion:240 Resp: 30481
Ion Ratio Lower Upper
240 100
120 8.3 2.2 3.2#
236 29.1 20.2 30.4



#28
Pyrene
Concen: 0.420 ng
RT: 19.61 min Scan# 1453
Delta R.T. 0.01 min
Lab File: BE099398.D
Acq: 27 Apr 2019 3:44

Tgt Ion:202 Resp: 37741
Ion Ratio Lower Upper
202 100
200 19.8 15.7 23.5
203 20.6 13.7 20.5#





#29

Terphenyl-d14

Concen: 0.338 ng

RT: 19.82 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

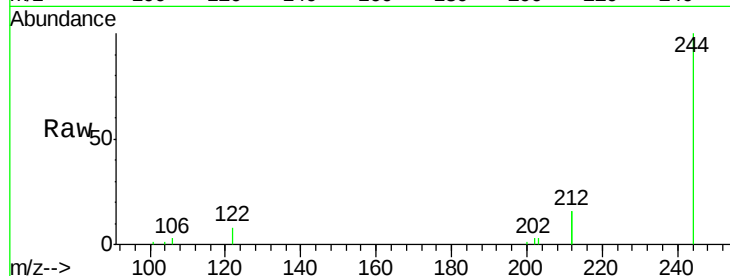
Tot Ion:244 Resp: 20264

Ion Ratio Lower Upper

244 100

212 32.8 22.6 33.8

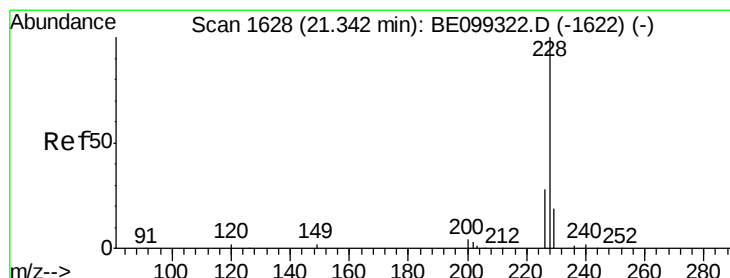
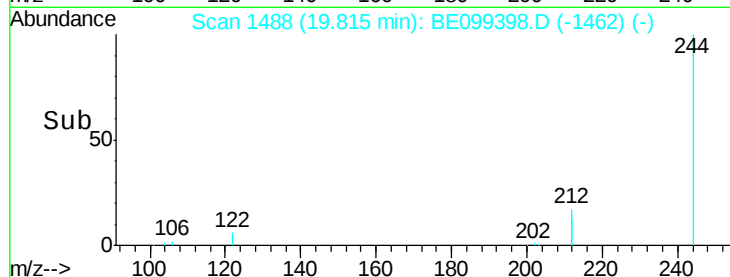
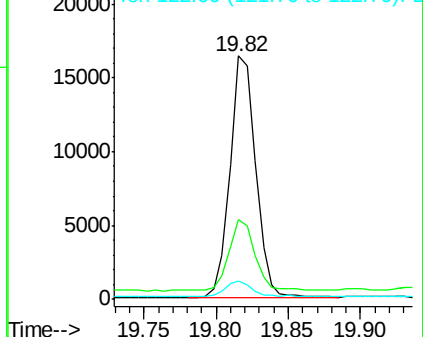
122 7.5 4.6 7.0#



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: 0.227 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

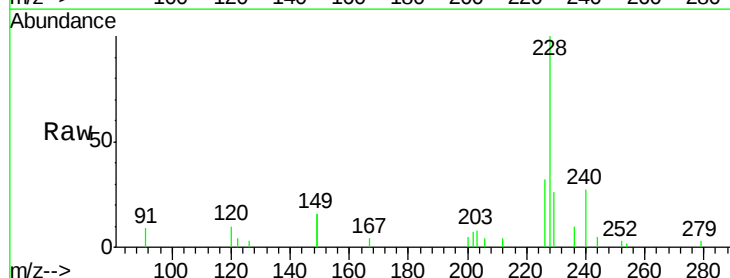
Tgt Ion:228 Resp: 20322

Ion Ratio Lower Upper

228 100

226 31.7 22.0 33.0

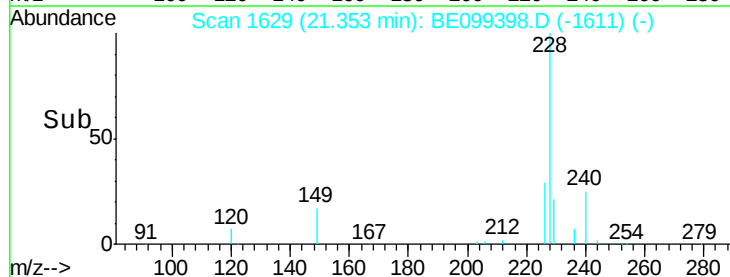
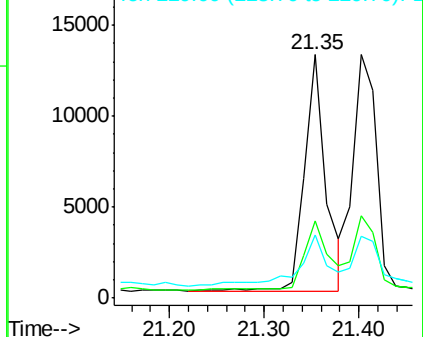
229 26.1 15.8 23.8#

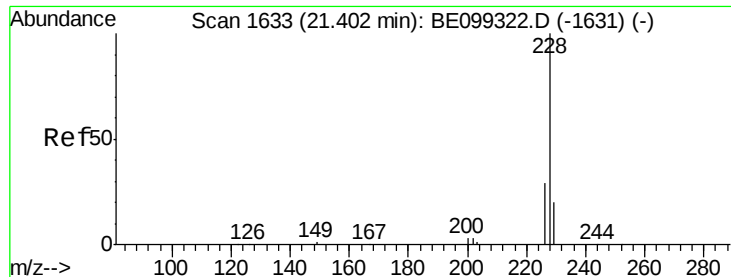


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.228 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

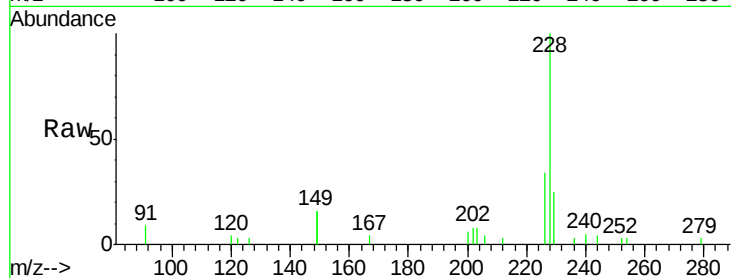
Tot Ion:228 Resp: 21696

Ion Ratio Lower Upper

228 100

226 34.0 23.4 35.2

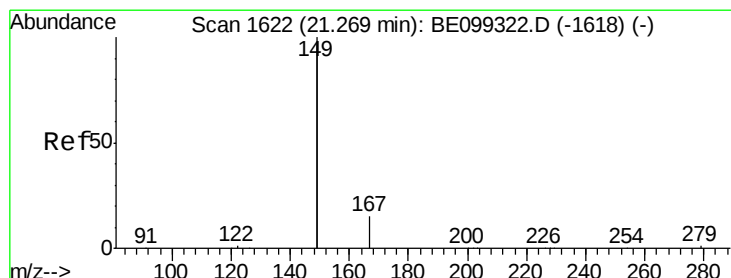
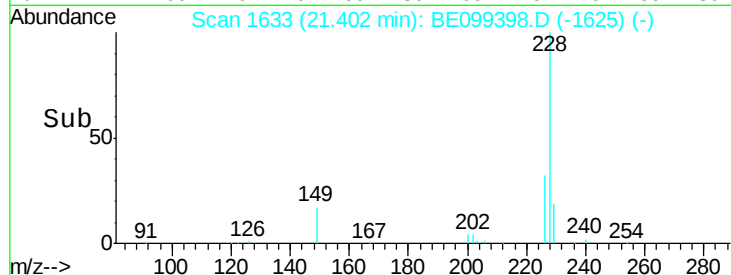
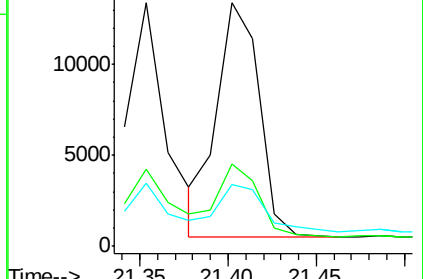
229 25.4 16.2 24.2#



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: 0.322 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.00 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

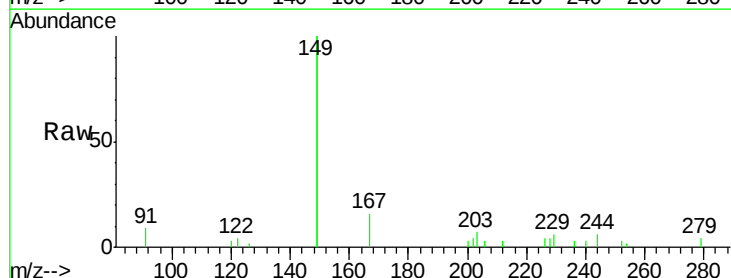
Tgt Ion:149 Resp: 26294

Ion Ratio Lower Upper

149 100

167 8.2 6.0 9.0

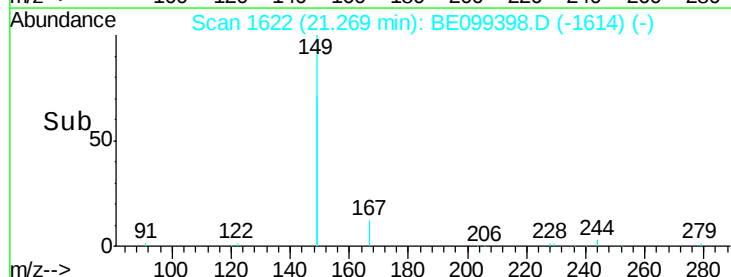
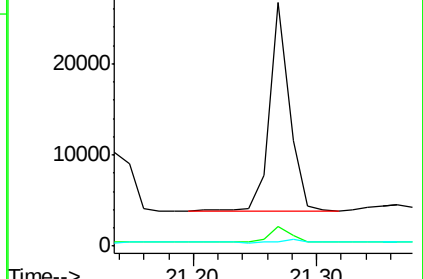
279 2.0 1.1 1.7#

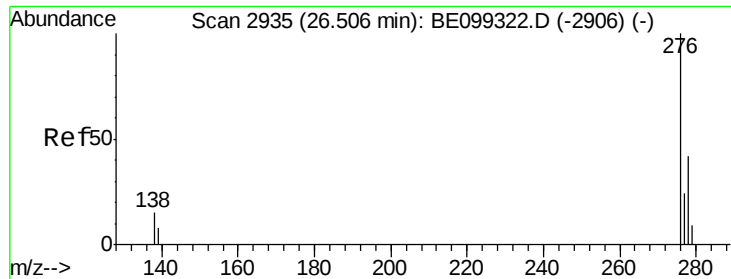


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

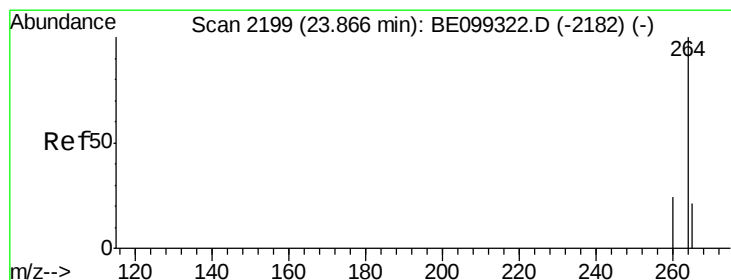
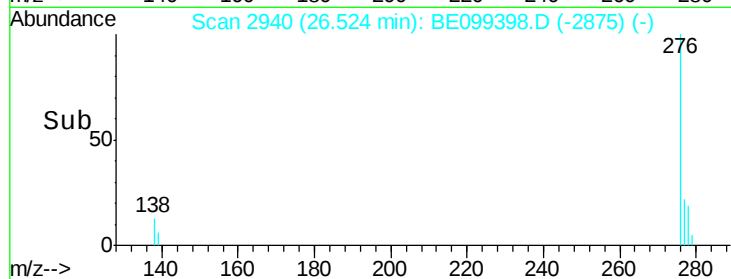
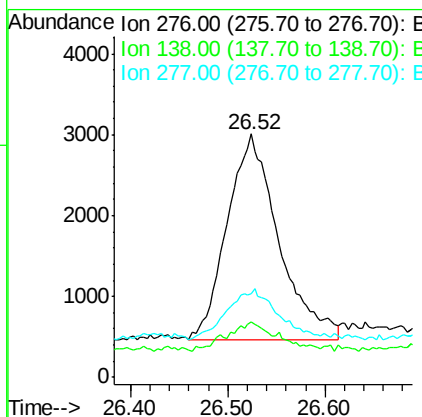
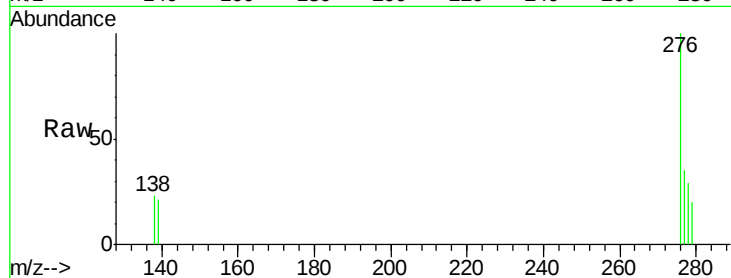




#33
Indeno(1,2,3-cd)pyrene
Concen: 0.100 ng
RT: 26.52 min Scan# 2940
Delta R.T. 0.03 min
Lab File: BE099398.D
Acq: 27 Apr 2019 3:44

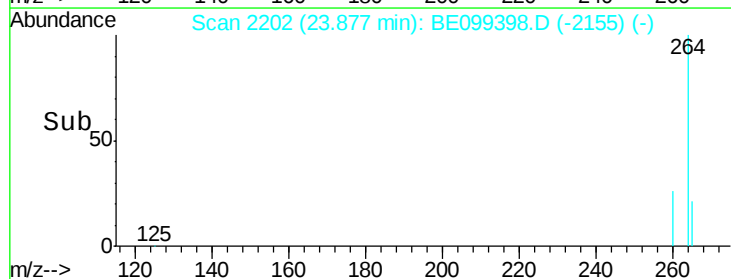
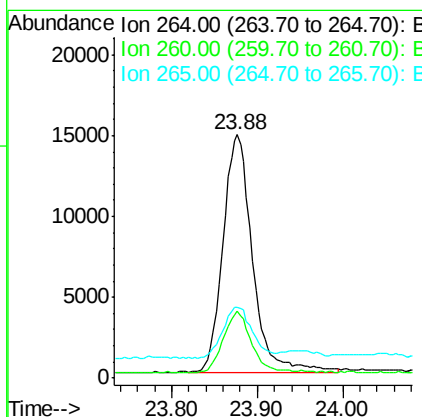
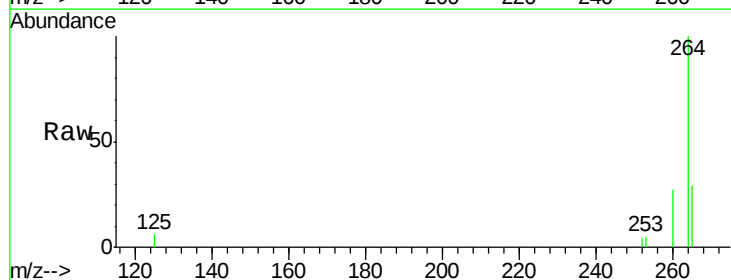
Instrument :
BNA_E
ClientSampleId :
EXT-028-SW022-042219

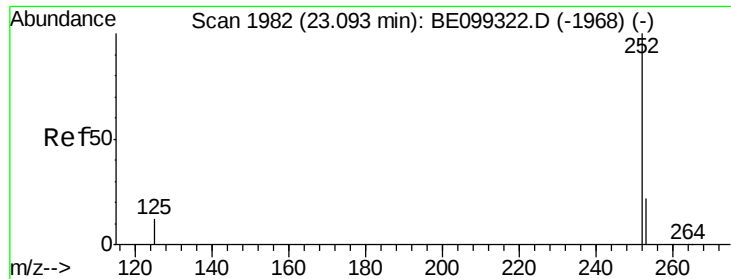
Tot Ion:276 Resp: 9378
Ion Ratio Lower Upper
276 100
138 10.2 12.7 19.1#
277 24.4 19.6 29.4



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.88 min Scan# 2202
Delta R.T. 0.02 min
Lab File: BE099398.D
Acq: 27 Apr 2019 3:44

Tgt Ion:264 Resp: 35250
Ion Ratio Lower Upper
264 100
260 27.3 20.1 30.1
265 29.1 19.9 29.9





#35

Benzo(b)fluoranthene

Concen: 0.227 ng

RT: 23.11 min Scan# 1986

Delta R.T. 0.02 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

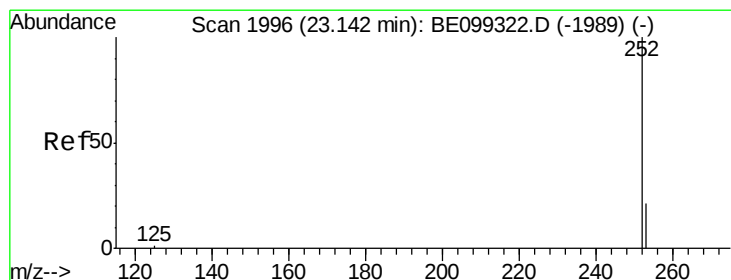
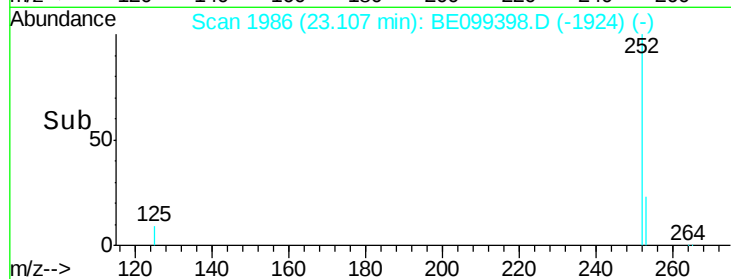
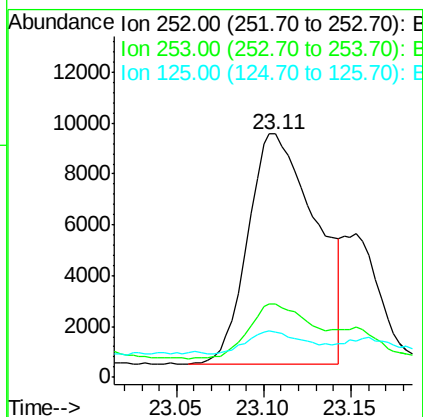
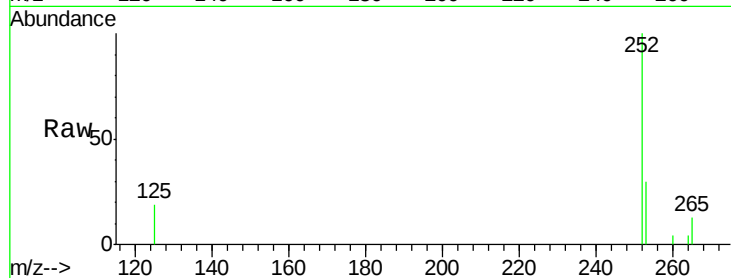
BNA_E

ClientSampleId :

EXT-028-SW022-042219

Tot Ion:252 Resp: 24551

Ion	Ratio	Lower	Upper
252	100		
253	30.1	17.3	25.9#
125	18.6	5.8	8.6#



#36

Benzo(k)fluoranthene

Concen: 0.228 ng

RT: 23.11 min Scan# 1986

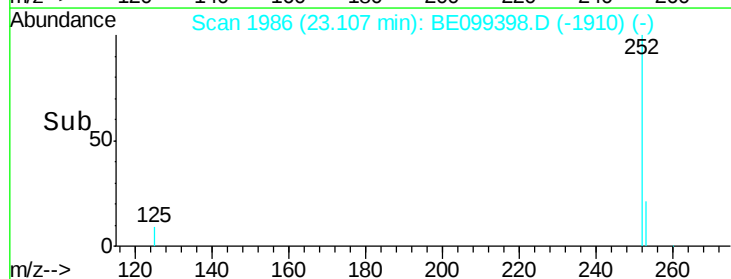
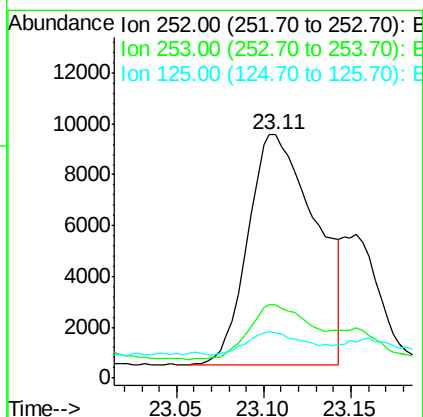
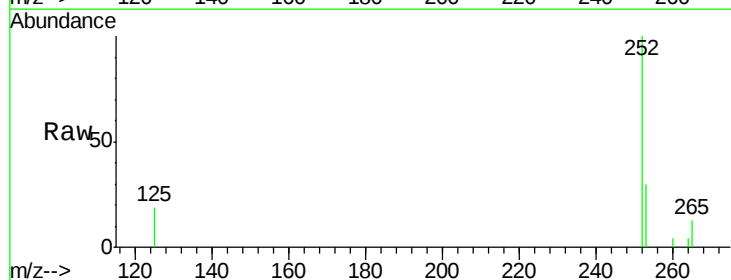
Delta R.T. -0.03 min

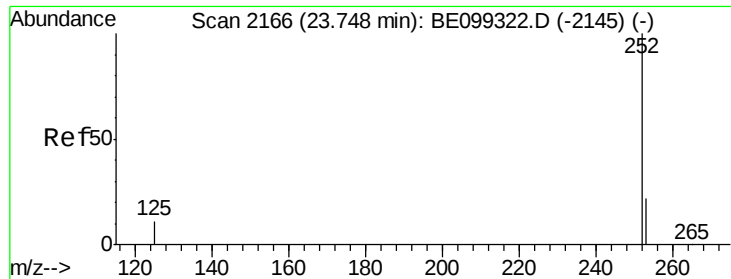
Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Tgt Ion:252 Resp: 24551

Ion	Ratio	Lower	Upper
252	100		
253	30.1	18.4	27.6#
125	18.6	5.4	8.0#





#37

Benzo(a)pyrene

Concen: 0.172 ng

RT: 23.76 min Scan# 2170

Delta R.T. 0.02 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

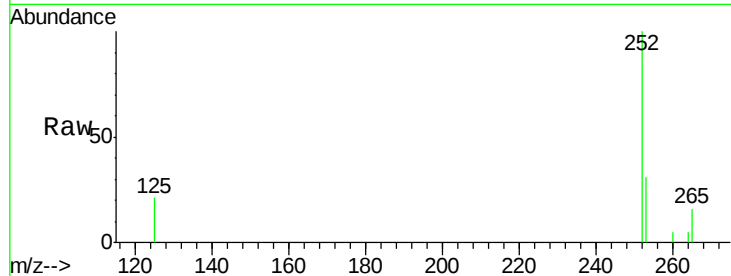
Tot Ion:252 Resp: 16624

Ion Ratio Lower Upper

252 100

253 30.5 17.6 26.4#

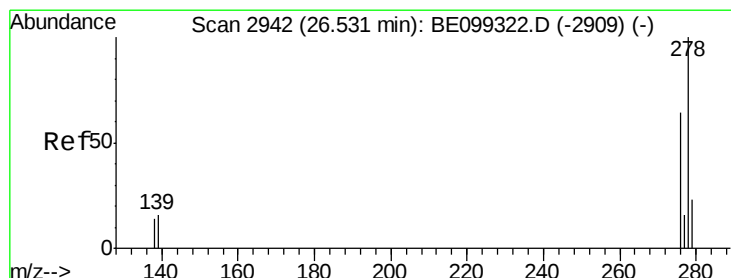
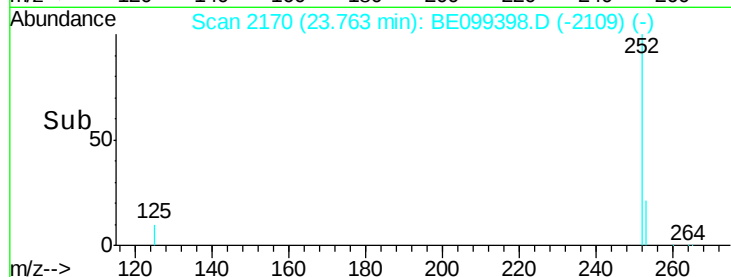
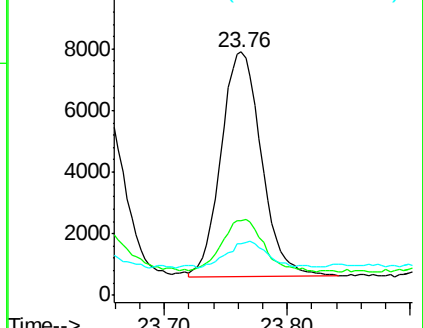
125 21.2 6.5 9.7#



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: 0.026 ng

RT: 26.55 min Scan# 2946

Delta R.T. 0.03 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

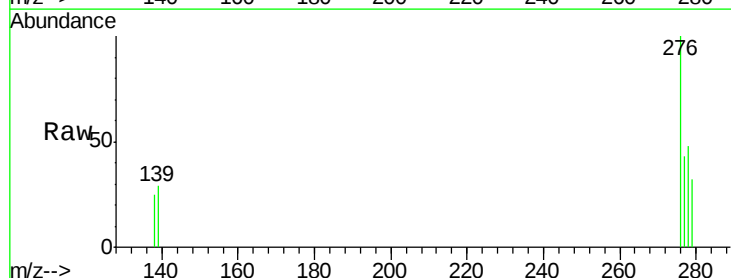
Tgt Ion:278 Resp: 2593

Ion Ratio Lower Upper

278 100

139 61.5 8.5 12.7#

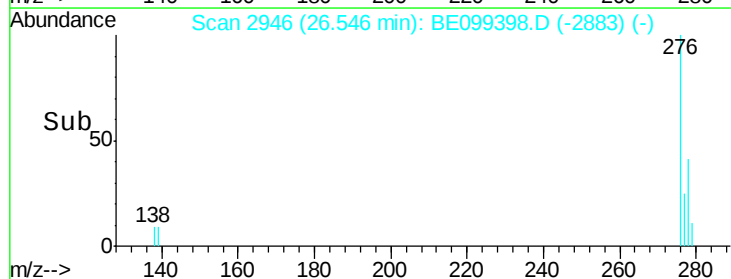
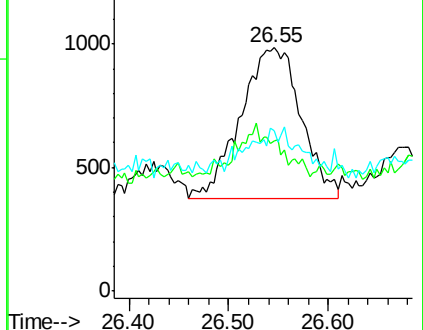
279 65.8 19.8 29.8#

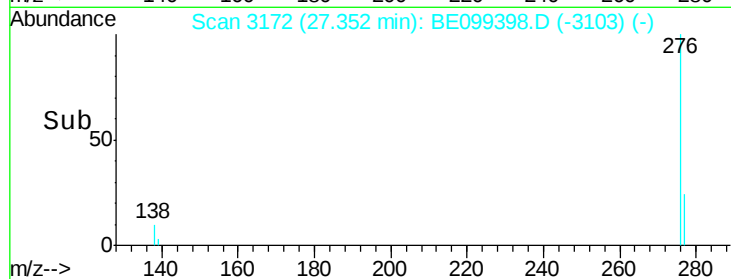
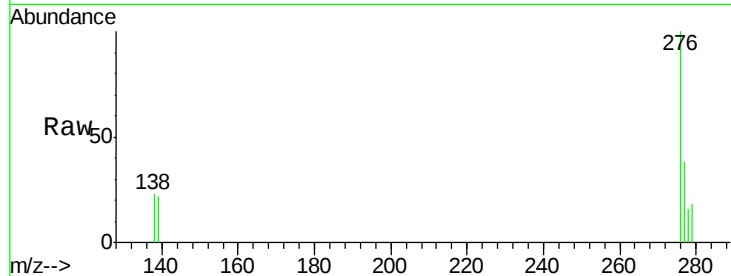
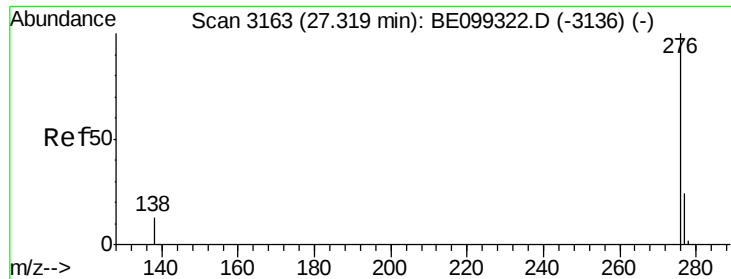


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.088 ng

RT: 27.35 min Scan# 3172

Delta R.T. 0.05 min

Lab File: BE099398.D

Acq: 27 Apr 2019 3:44

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW022-042219

Tot Ion: 276 Resp: 8785

Ion Ratio Lower Upper

276 100

277 38.3 20.0 30.0#

138 23.0 11.1 16.7#

