

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099393.D
 Acq On : 27 Apr 2019 00:42
 Operator : JU/SJ
 Sample : K2533-15
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW023-042219

Quant Time: Apr 27 05:09:28 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	3569	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	14323	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	10616	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	29832	0.40	ng	0.01
27) Chrysene-d12	21.37	240	33600	0.40	ng	0.00
34) Perylene-d12	23.88	264	38407	0.40	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.40	112	3803	0.44	ng	0.01
5) Phenol-d6	6.98	99	5392	0.43	ng	0.00
8) Nitrobenzene-d5	8.98	82	5033	0.45	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	9588	0.38	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2502	0.71	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	13672	0.33	ng	0.00
25) Fluoranthene-d10	19.22	212	121717	0.34	ng	0.00
29) Terphenyl-d14	19.82	244	20785	0.31	ng	0.00

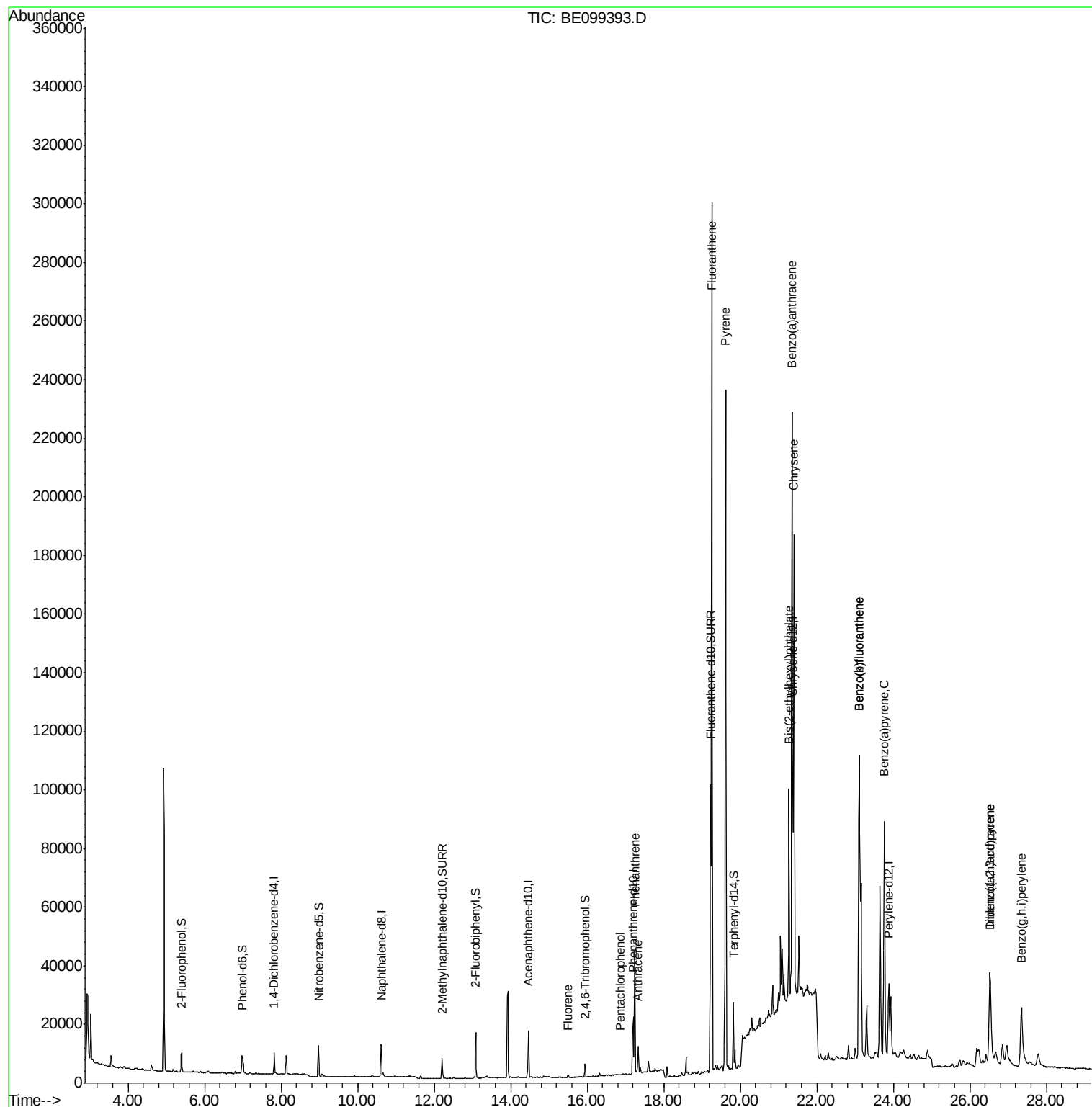
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Fluorene	15.50	166	967	0.023	ng	# 81
22) Pentachlorophenol	16.87	266	99	0.236	ng	# 71
23) Phenanthrene	17.24	178	47815	0.605	ng	99
24) Anthracene	17.32	178	10952	0.156	ng	99
26) Fluoranthene	19.25	202	264492	2.501	ng	# 98
28) Pyrene	19.61	202	225946	2.283	ng	# 93
30) Benzo(a)anthracene	21.35	228	178091	1.803	ng	98
31) Chrysene	21.40	228	161860	1.540	ng	95
32) Bis(2-ethylhexyl)phthalate	21.27	149	76335	0.849	ng	100
33) Indeno(1,2,3-cd)pyrene	26.52	276	71676	0.690	ng	# 91
35) Benzo(b)fluoranthene	23.11	252	205781	1.750	ng	95
36) Benzo(k)fluoranthene	23.11	252	205781	1.755	ng	97
37) Benzo(a)pyrene	23.76	252	136129	1.292	ng	96
38) Dibenzo(a,h)anthracene	26.54	278	17982	0.167	ng	# 70
39) Benzo(g,h,i)perylene	27.35	276	61863	0.567	ng	94

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. -0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

BNA_E

ClientSampleId :

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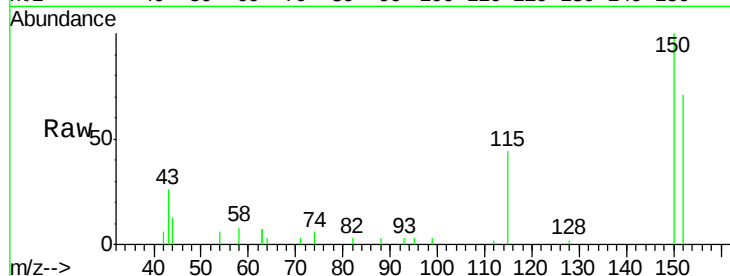
Tot Ion:152 Resp: 3569

Ion Ratio Lower Upper

152 100

150 141.4 119.5 179.3

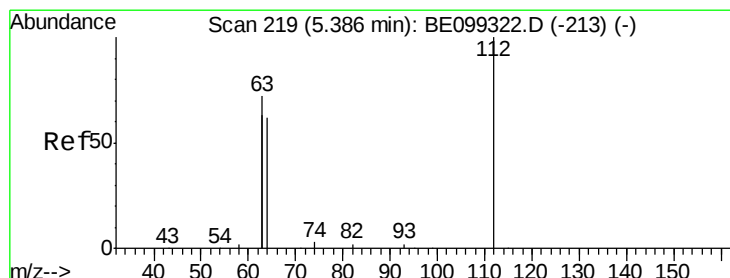
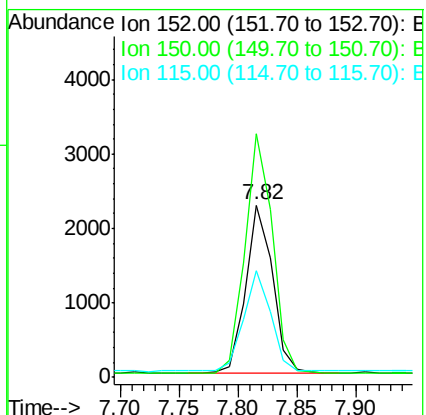
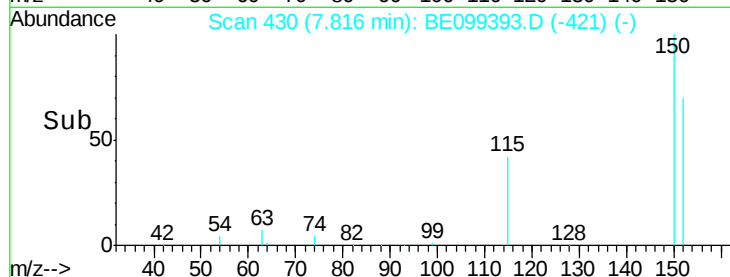
115 62.0 47.5 71.3



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: 0.436 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

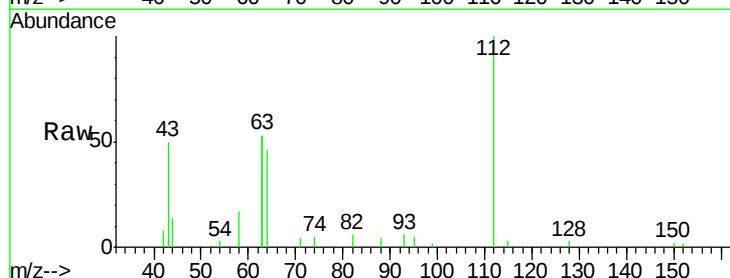
Tgt Ion:112 Resp: 3803

Ion Ratio Lower Upper

112 100

64 55.7 44.9 67.3

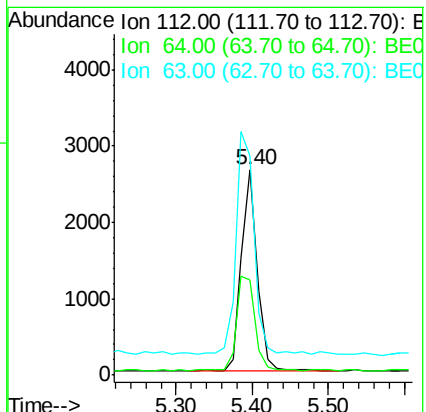
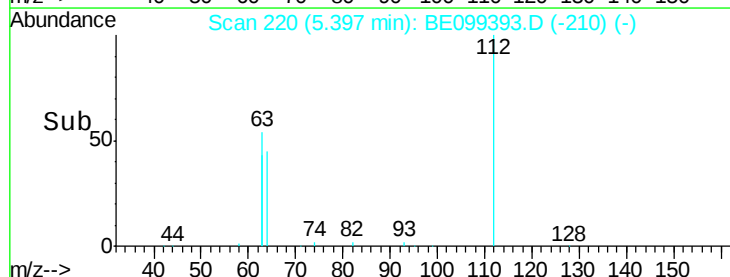
63 127.5 97.4 146.0

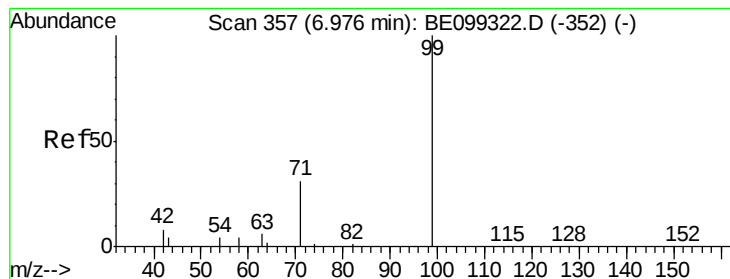


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.433 ng

RT: 6.98 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

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ClientSampleId :

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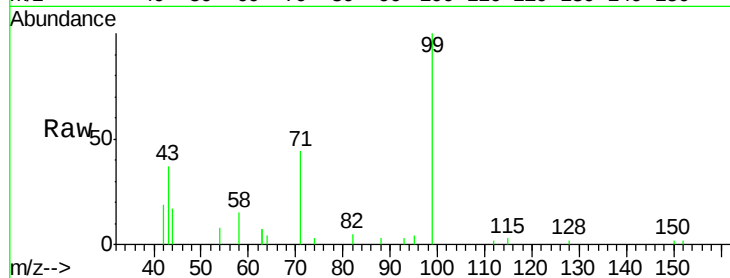
Tot Ion: 99 Resp: 5392

Ion Ratio Lower Upper

99 100

42 21.5 11.7 17.5#

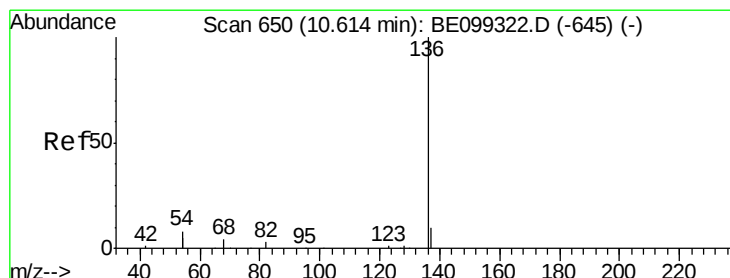
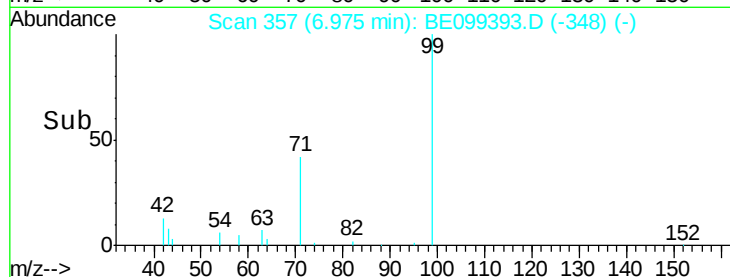
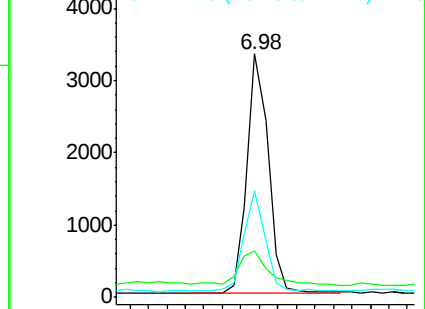
71 40.9 29.6 44.4



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: BE099393.D

Acq: 27 Apr 2019 00:42

Tgt Ion: 136 Resp: 14323

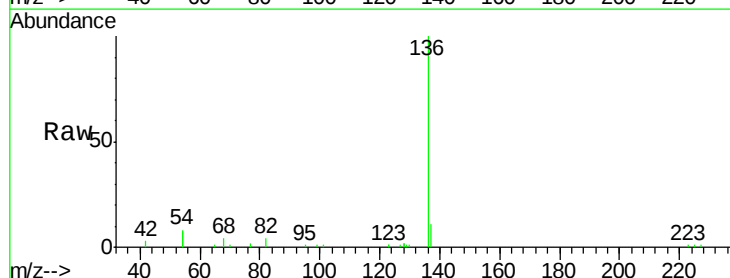
Ion Ratio Lower Upper

136 100

137 11.2 8.7 13.1

54 16.3 23.8 35.8#

68 4.3 6.4 9.6#

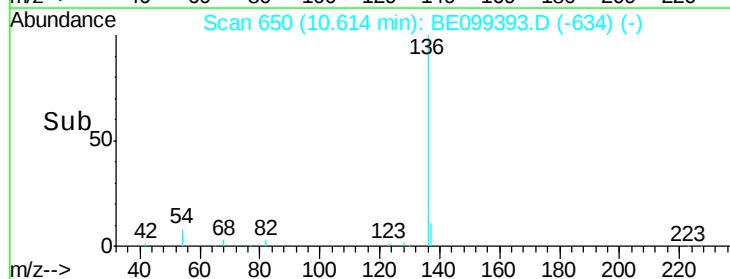
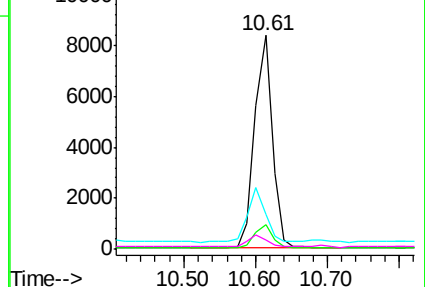


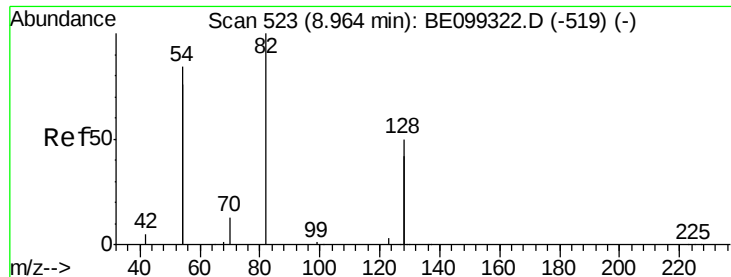
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.453 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

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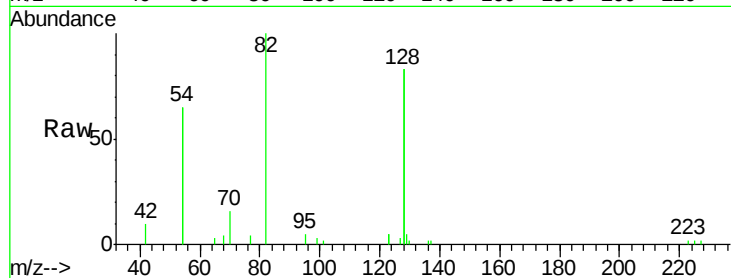
Tot Ion: 82 Resp: 5033

Ion Ratio Lower Upper

82 100

128 167.0 91.7 137.5#

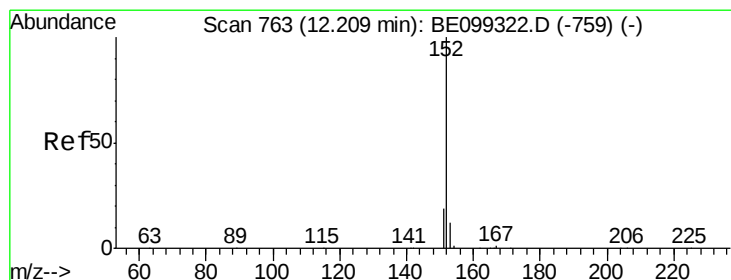
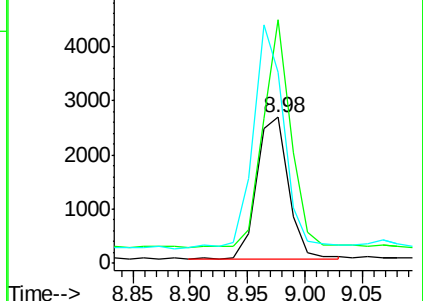
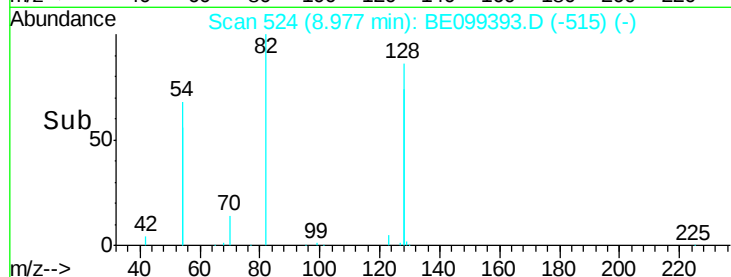
54 131.0 122.8 184.2



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: 0.379 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.01 min

Lab File: BE099393.D

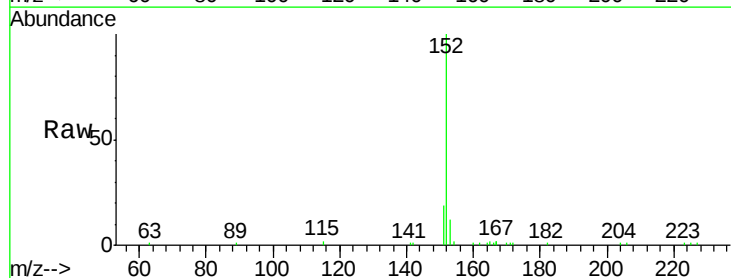
Acq: 27 Apr 2019 00:42

Tgt Ion: 152 Resp: 9588

Ion Ratio Lower Upper

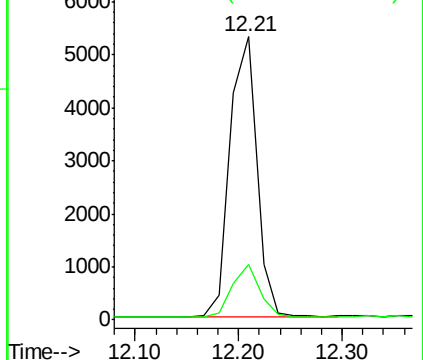
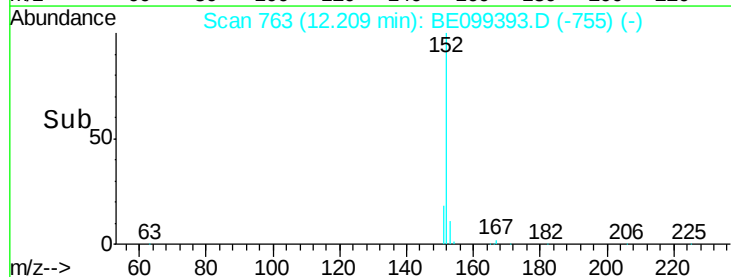
152 100

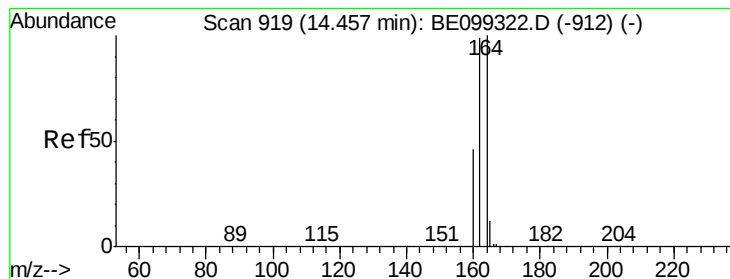
151 18.4 14.9 22.3



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

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ClientSampleId :

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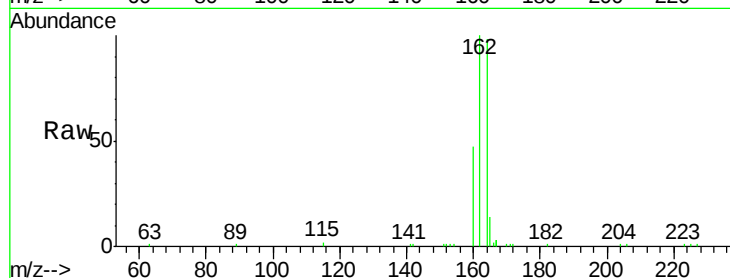
Tot Ion:164 Resp: 10616

Ion Ratio Lower Upper

164 100

162 101.7 77.8 116.6

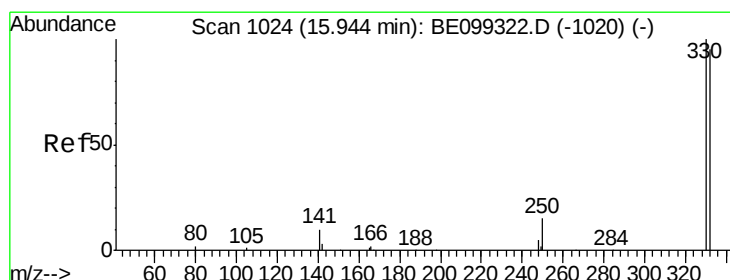
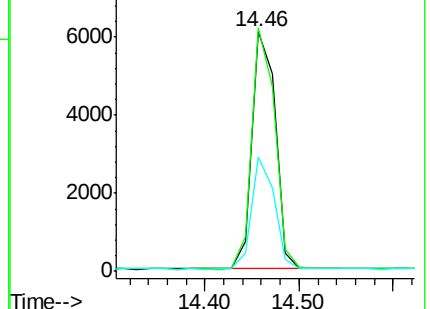
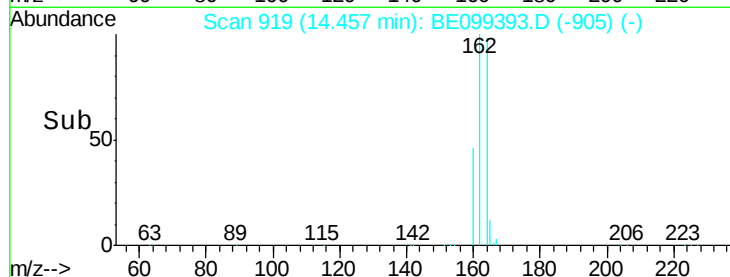
160 47.7 37.1 55.7



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: 0.710 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

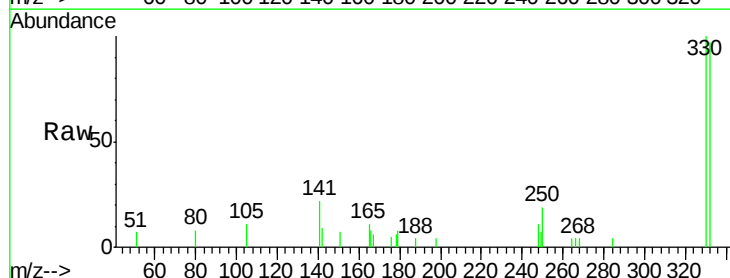
Tgt Ion:330 Resp: 2502

Ion Ratio Lower Upper

330 100

332 95.4 82.5 123.7

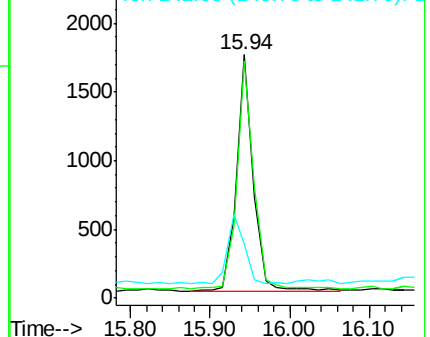
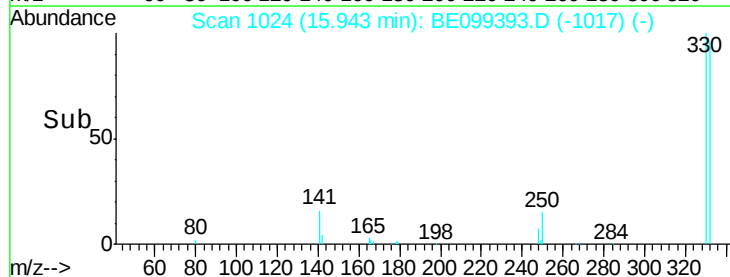
141 30.0 24.9 37.3

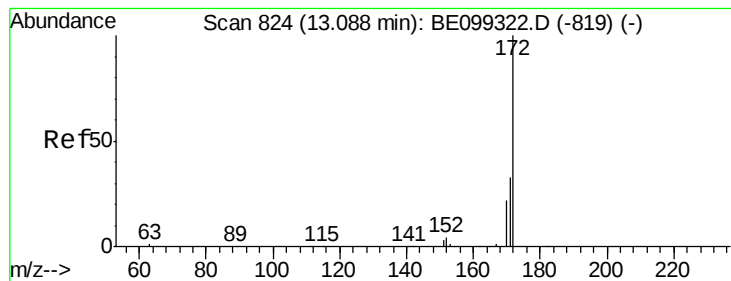


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.328 ng

RT: 13.09 min Scan# 824

Delta R.T. 0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

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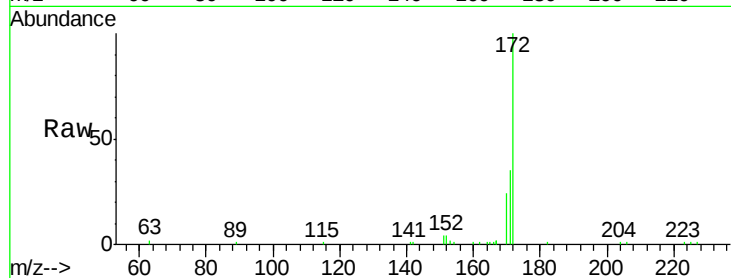
Tot Ion:172 Resp: 13672

Ion Ratio Lower Upper

172 100

171 34.6 26.2 39.2

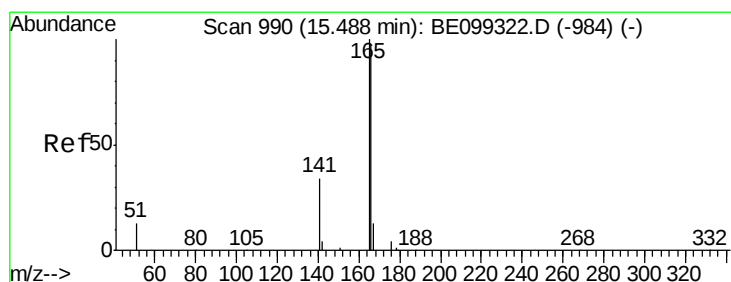
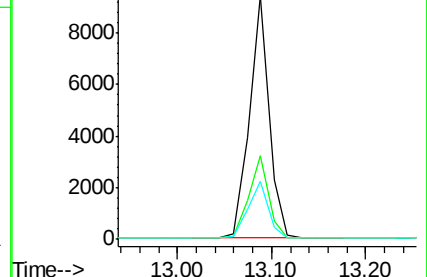
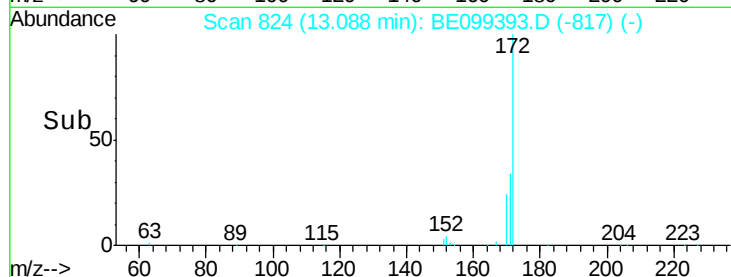
170 24.0 18.1 27.1



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



#18

Fluorene

Concen: 0.023 ng

RT: 15.50 min Scan# 991

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

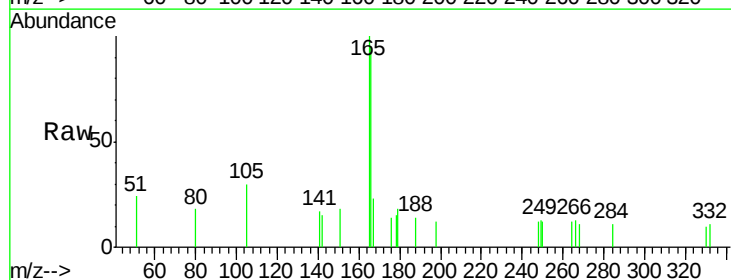
Tgt Ion:166 Resp: 967

Ion Ratio Lower Upper

166 100

165 78.9 79.7 119.5#

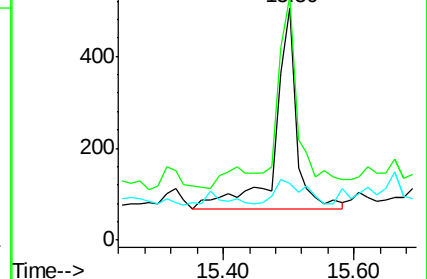
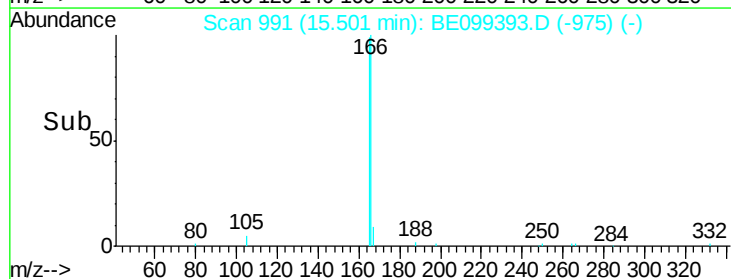
167 17.4 11.0 16.4#

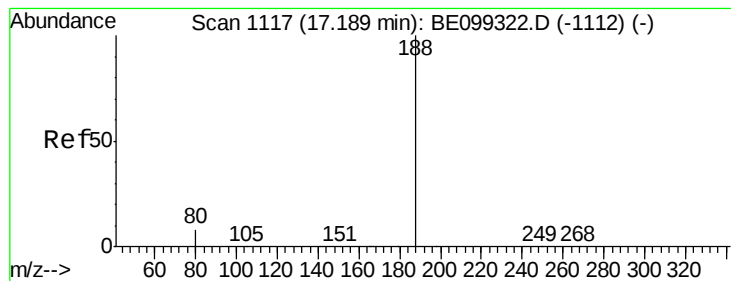


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

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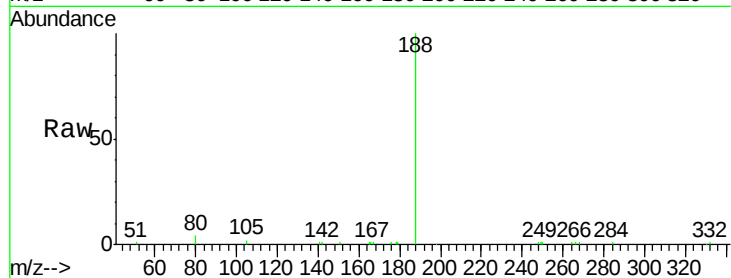
Tot Ion:188 Resp: 29832

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

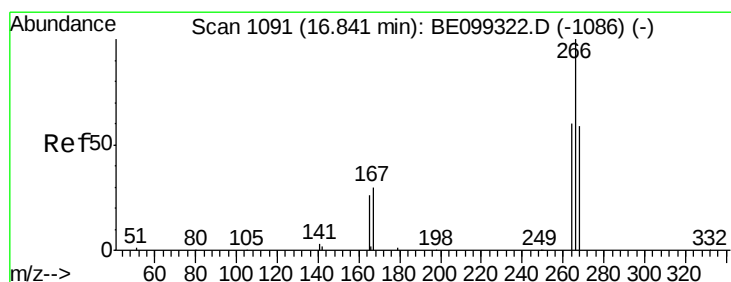
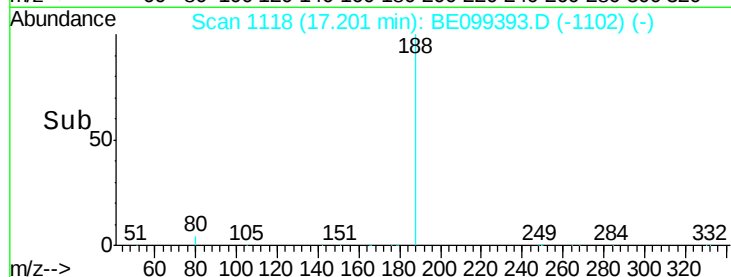
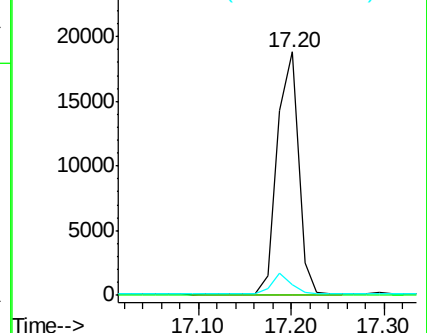
80 4.5 6.2 9.4#



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



#22

Pentachlorophenol

Concen: 0.236 ng

RT: 16.87 min Scan# 1093

Delta R.T. 0.03 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

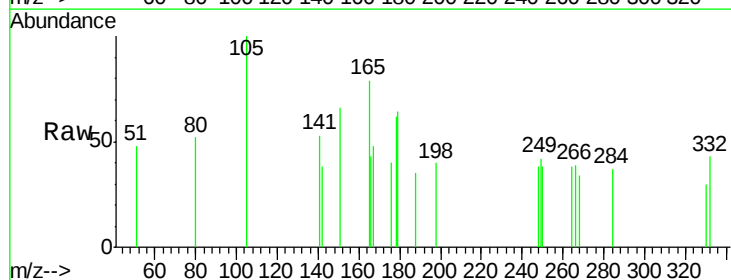
Tgt Ion:266 Resp: 99

Ion Ratio Lower Upper

266 100

264 96.1 54.5 81.7#

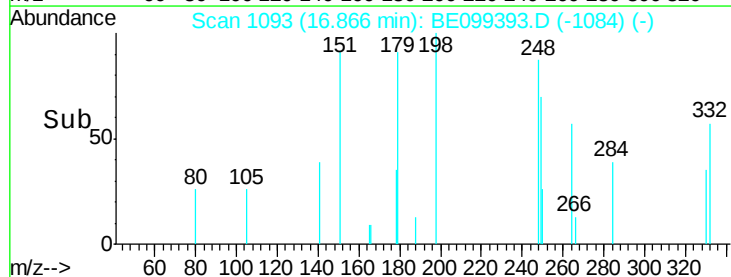
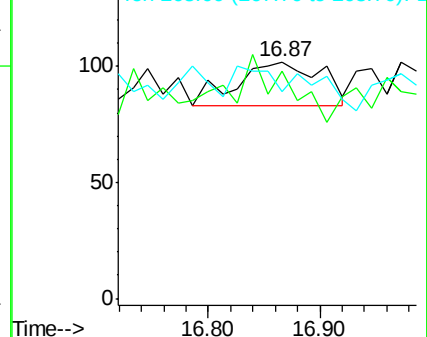
268 87.3 54.3 81.5#

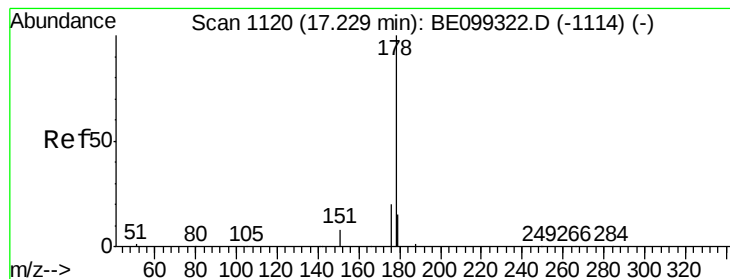


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.605 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

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EXT-028-SW023-042219

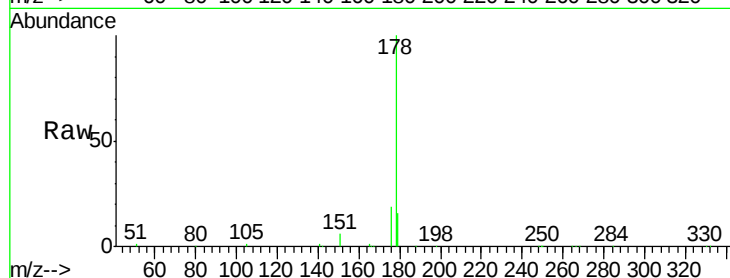
Tot Ion:178 Resp: 47815

Ion Ratio Lower Upper

178 100

176 19.6 15.3 22.9

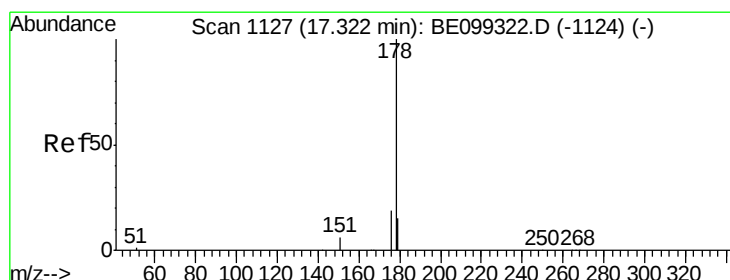
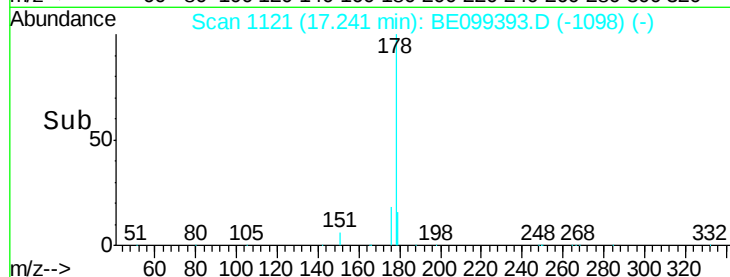
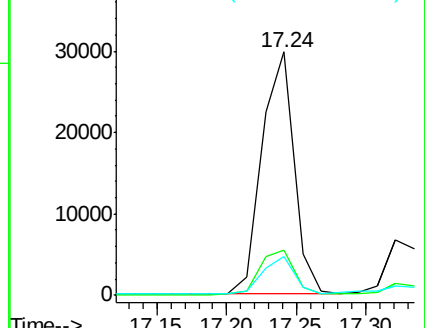
179 15.6 12.4 18.6



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



#24

Anthracene

Concen: 0.156 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

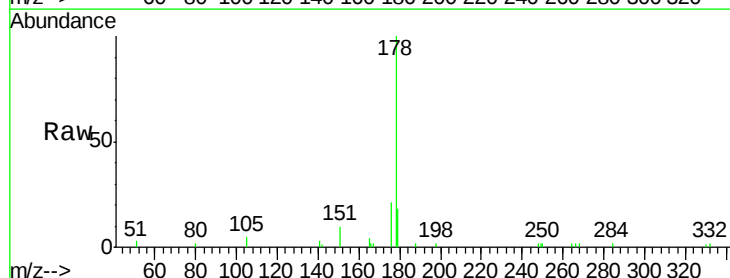
Tgt Ion:178 Resp: 10952

Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

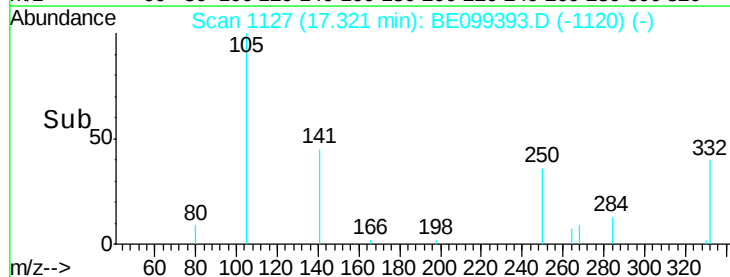
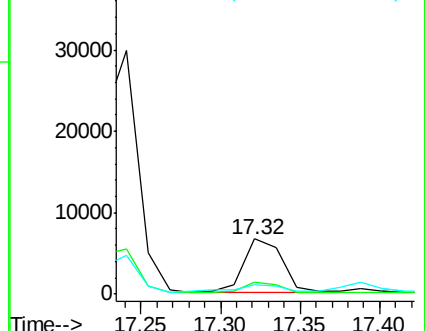
179 15.7 11.9 17.9

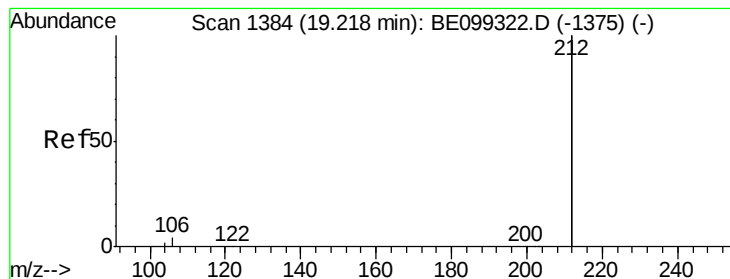


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.340 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW023-042219

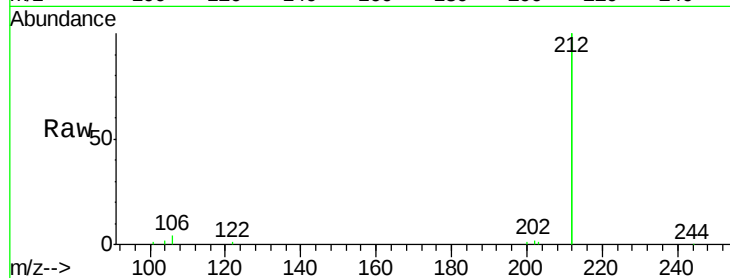
Tot Ion:212 Resp: 121717

Ion Ratio Lower Upper

212 100

106 1.8 1.8 2.6

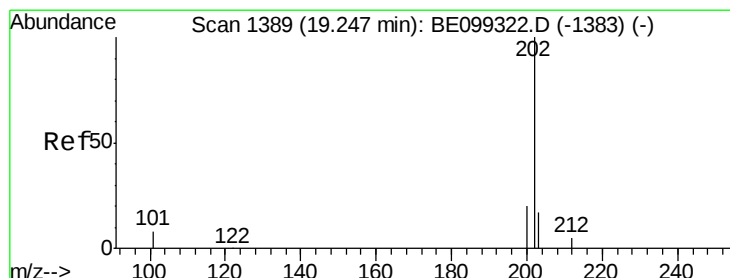
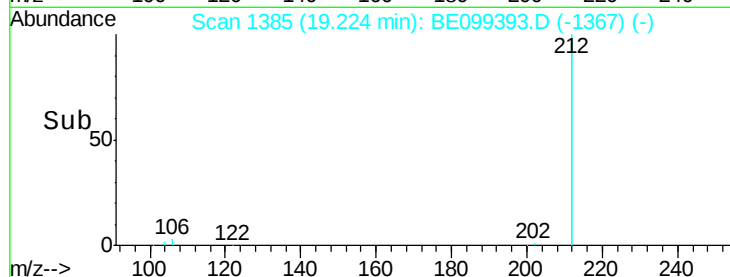
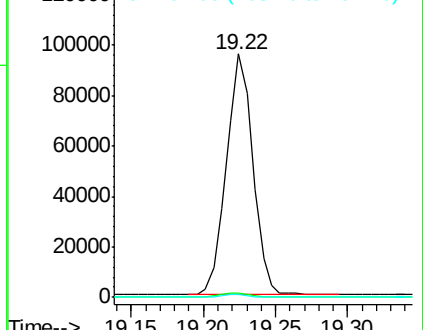
104 1.1 1.0 1.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 2.501 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

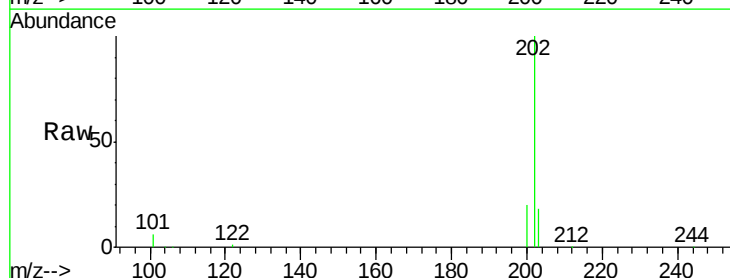
Tgt Ion:202 Resp: 264492

Ion Ratio Lower Upper

202 100

101 6.3 6.4 9.6#

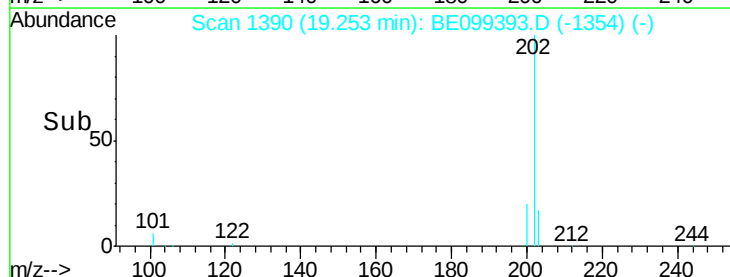
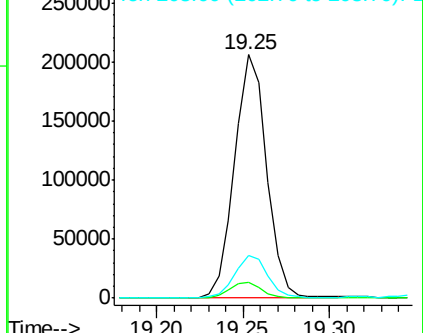
203 17.5 13.5 20.3

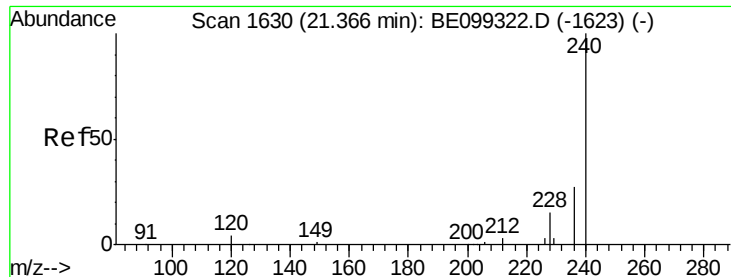


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

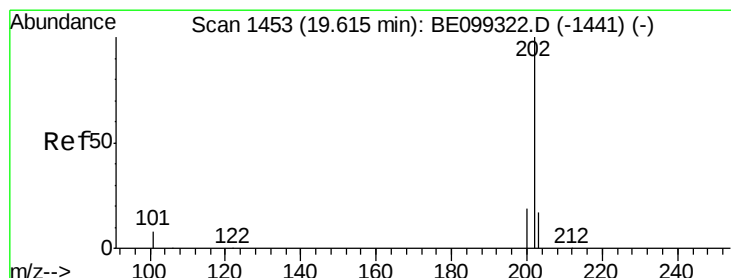
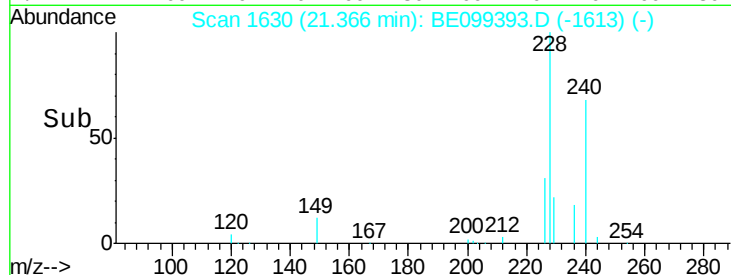
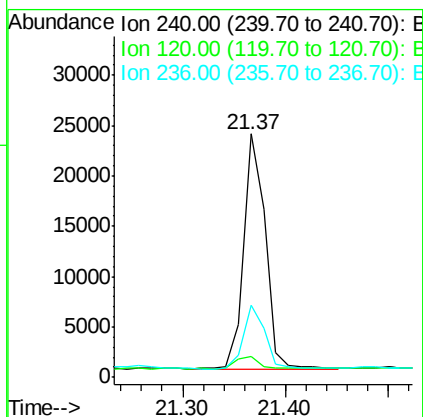
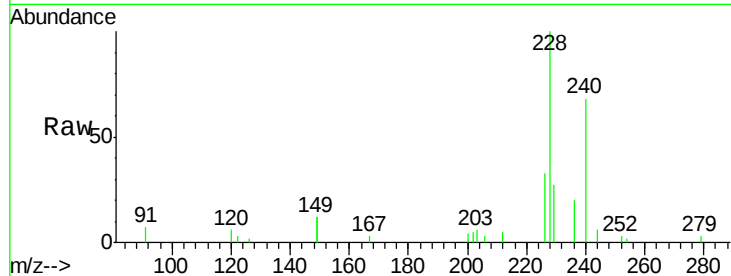




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: BE099393.D
 Acq: 27 Apr 2019 00:42

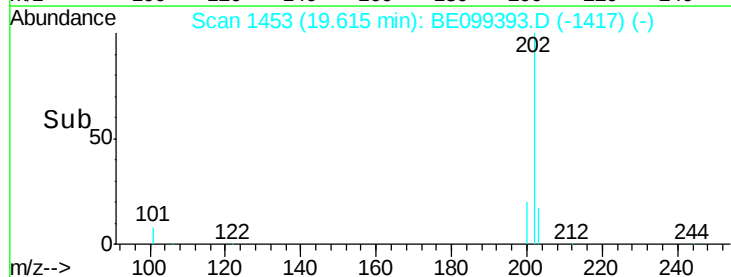
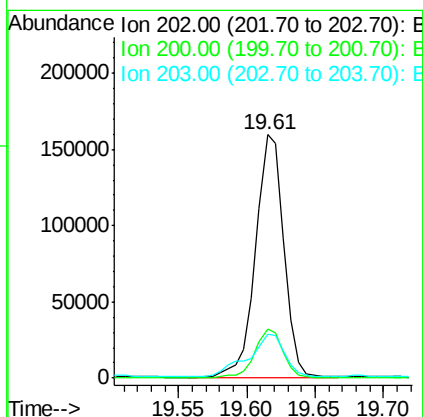
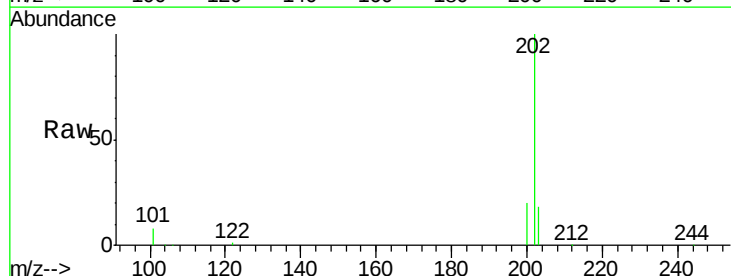
Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW023-042219

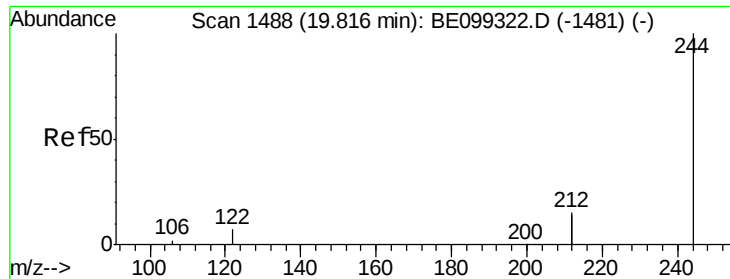
Tot Ion:240 Resp: 33600
 Ion Ratio Lower Upper
 240 100
 120 8.6 2.2 3.2#
 236 29.6 20.2 30.4



#28
 Pyrene
 Concen: 2.283 ng
 RT: 19.61 min Scan# 1453
 Delta R.T. 0.01 min
 Lab File: BE099393.D
 Acq: 27 Apr 2019 00:42

Tgt Ion:202 Resp: 225946
 Ion Ratio Lower Upper
 202 100
 200 20.0 15.7 23.5
 203 23.0 13.7 20.5#





#29

Terphenyl-d14

Concen: 0.314 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW023-042219

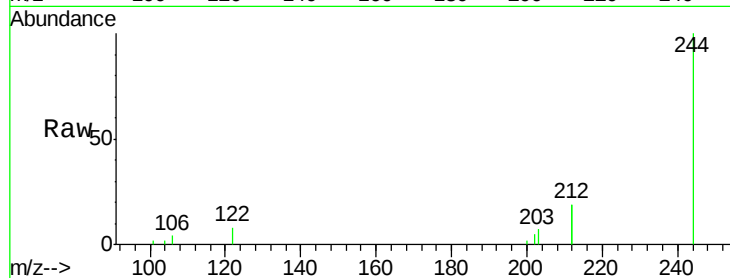
Tot Ion:244 Resp: 20785

Ion Ratio Lower Upper

244 100

212 38.5 22.6 33.8#

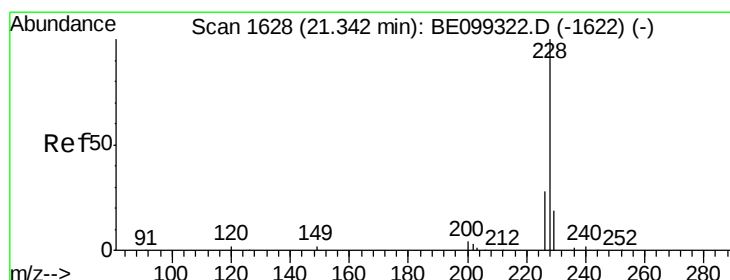
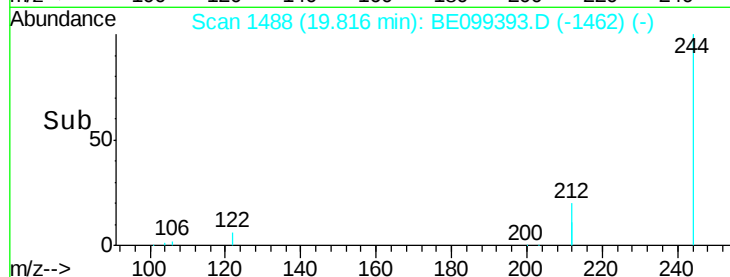
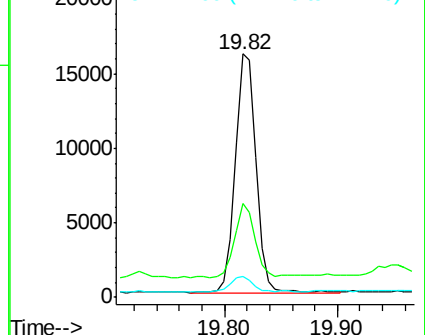
122 8.4 4.6 7.0#



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: 1.803 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

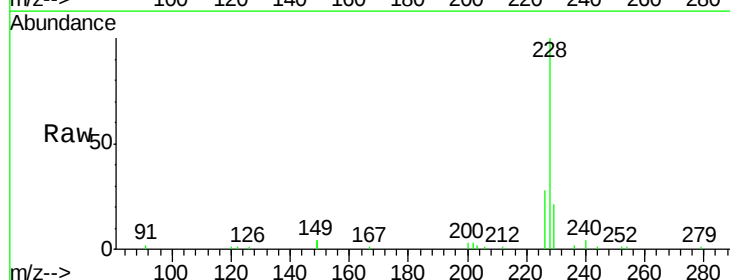
Tgt Ion:228 Resp: 178091

Ion Ratio Lower Upper

228 100

226 28.1 22.0 33.0

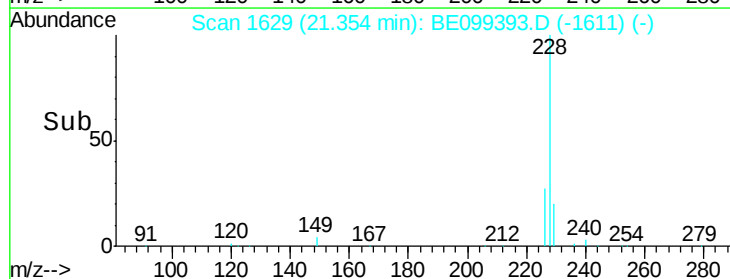
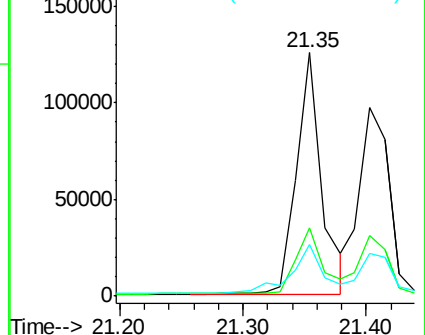
229 21.3 15.8 23.8

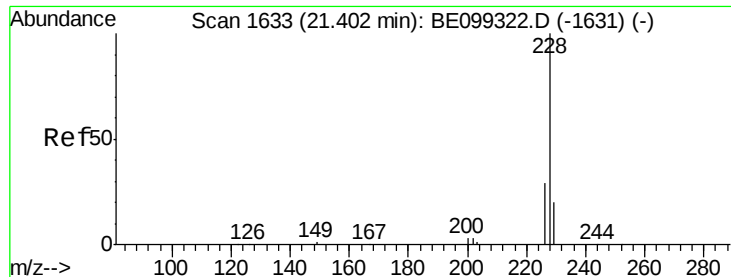


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.540 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW023-042219

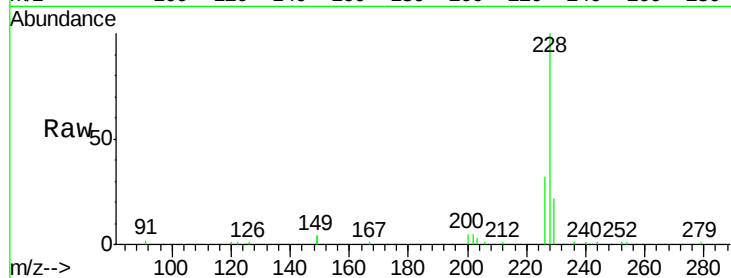
Tot Ion:228 Resp: 161860

Ion Ratio Lower Upper

228 100

226 32.4 23.4 35.2

229 22.3 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

150000

100000

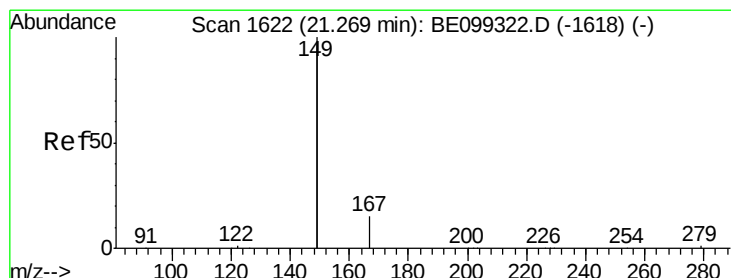
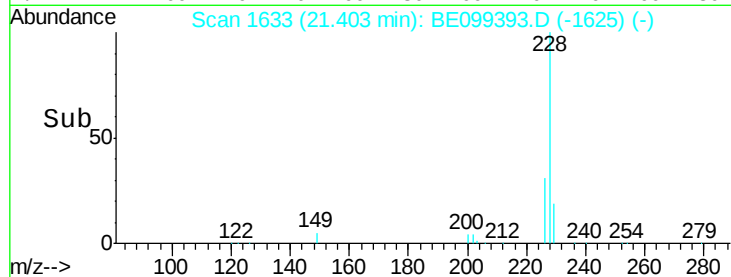
50000

0

21.40

21.50

Time-->



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.849 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

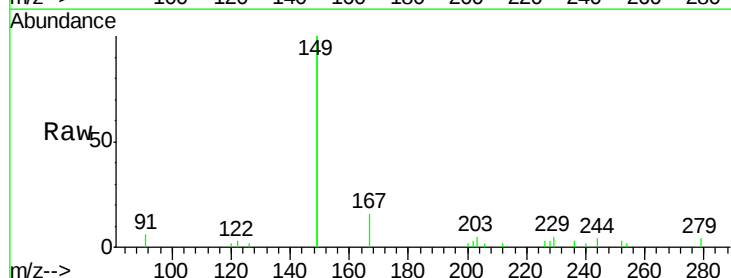
Tgt Ion:149 Resp: 76335

Ion Ratio Lower Upper

149 100

167 7.6 6.0 9.0

279 1.6 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

100000

80000

60000

40000

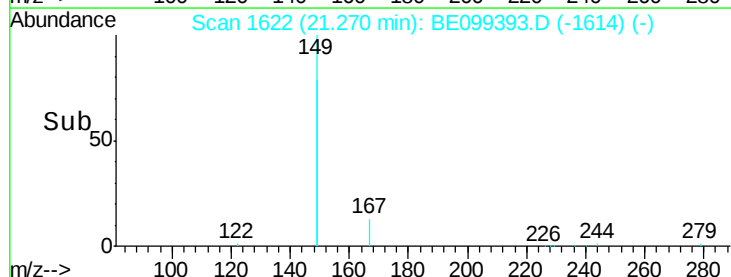
20000

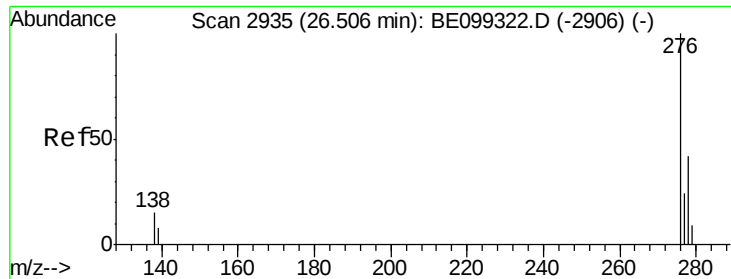
0

21.27

21.30

Time-->

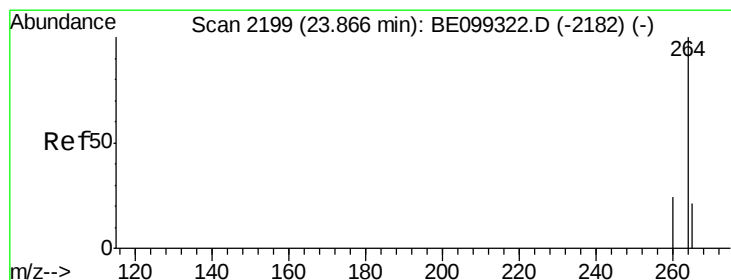
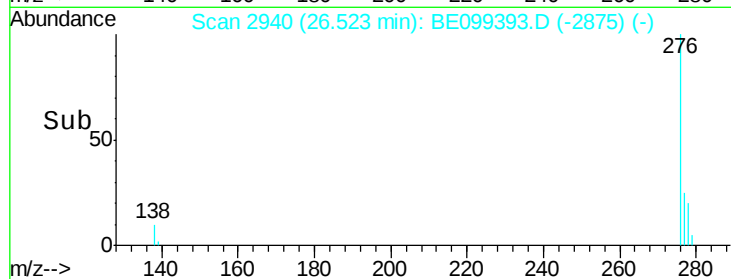
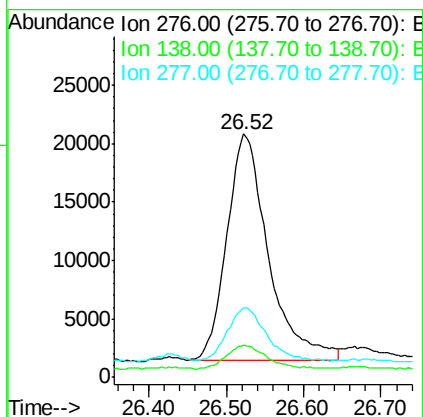
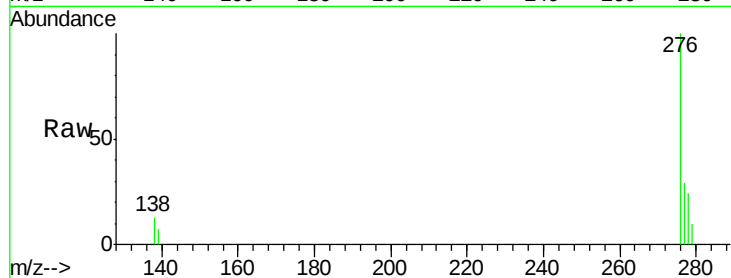




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.690 ng
 RT: 26.52 min Scan# 2940
 Delta R.T. 0.03 min
 Lab File: BE099393.D
 Acq: 27 Apr 2019 00:42

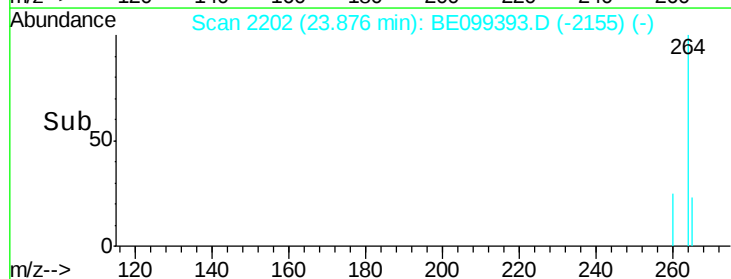
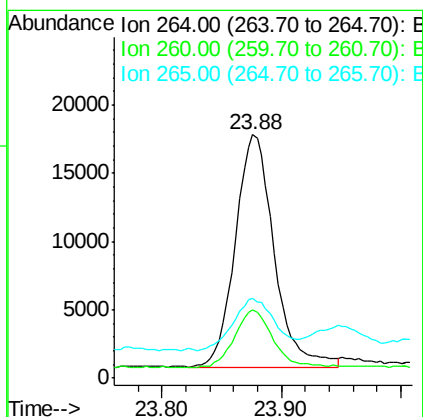
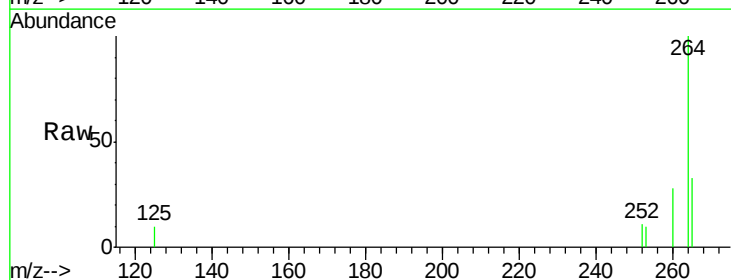
Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW023-042219

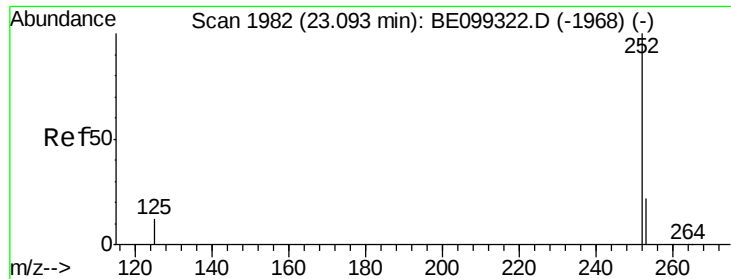
Tot Ion:276 Resp: 71676
 Ion Ratio Lower Upper
 276 100
 138 9.8 12.7 19.1#
 277 21.7 19.6 29.4



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.88 min Scan# 2202
 Delta R.T. 0.02 min
 Lab File: BE099393.D
 Acq: 27 Apr 2019 00:42

Tgt Ion:264 Resp: 38407
 Ion Ratio Lower Upper
 264 100
 260 28.2 20.1 30.1
 265 32.6 19.9 29.9#





#35

Benzo(b)fluoranthene

Concen: 1.750 ng

RT: 23.11 min Scan# 1986

Delta R.T. 0.02 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW023-042219

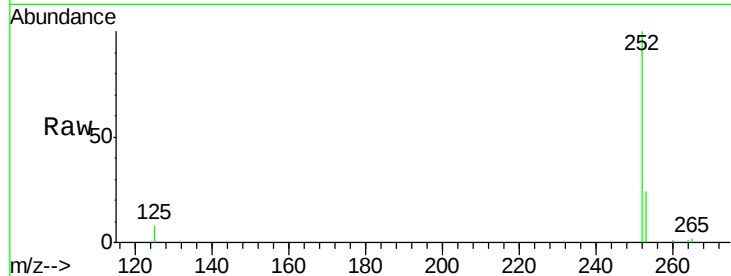
Tot Ion:252 Resp: 205781

Ion Ratio Lower Upper

252 100

253 24.4 17.3 25.9

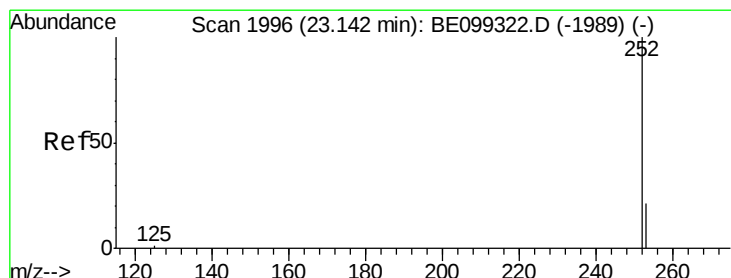
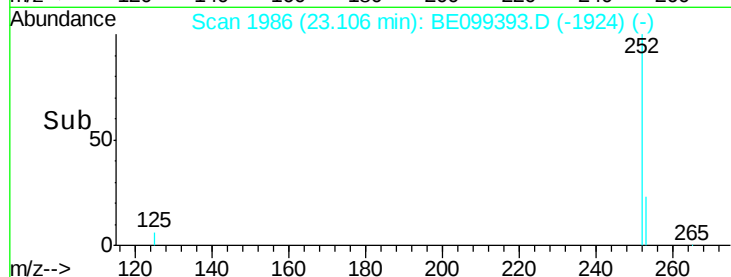
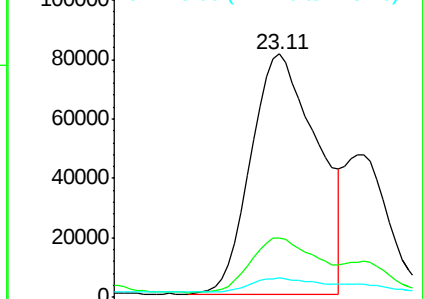
125 7.8 5.8 8.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 1.755 ng

RT: 23.11 min Scan# 1986

Delta R.T. -0.03 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

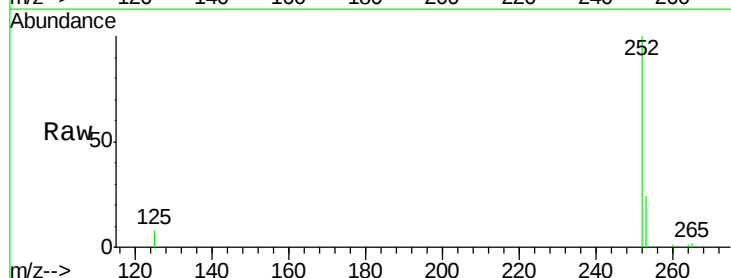
Tgt Ion:252 Resp: 205781

Ion Ratio Lower Upper

252 100

253 24.4 18.4 27.6

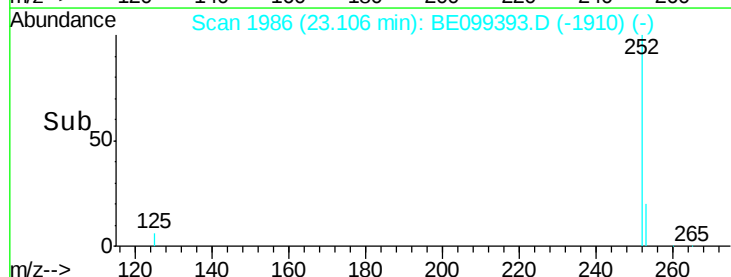
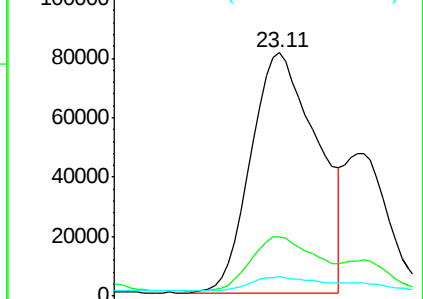
125 7.8 5.4 8.0

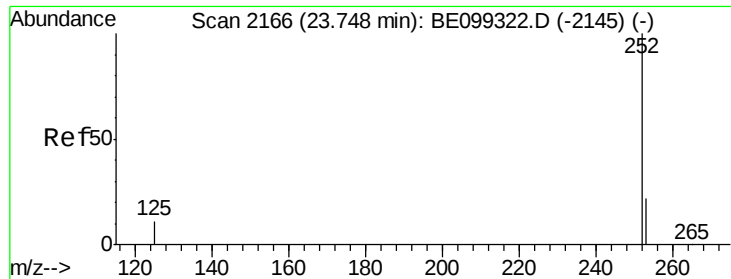


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 1.292 ng

RT: 23.76 min Scan# 2170

Delta R.T. 0.02 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW023-042219

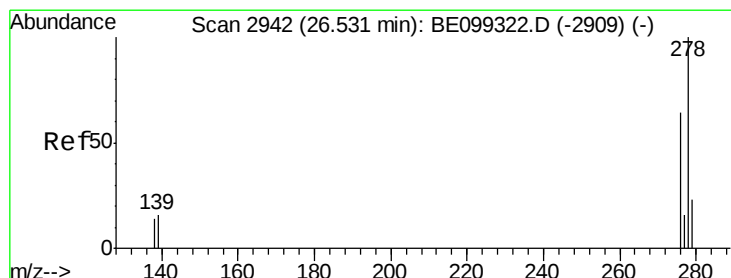
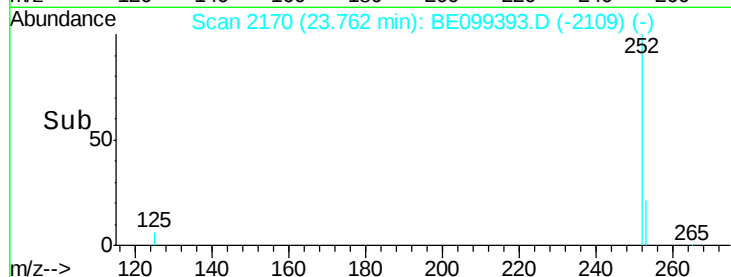
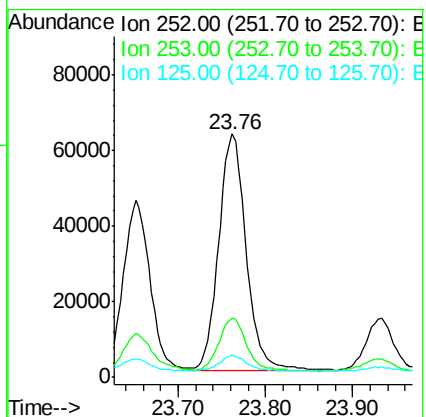
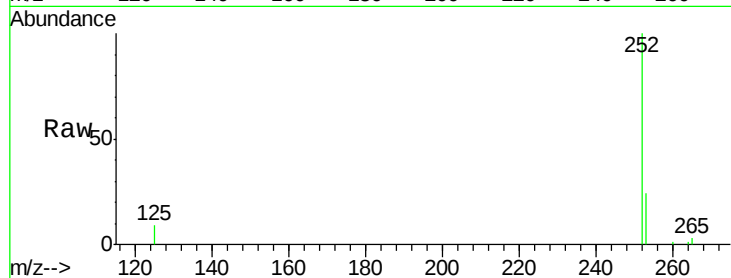
Tot Ion:252 Resp: 136129

Ion Ratio Lower Upper

252 100

253 24.3 17.6 26.4

125 8.9 6.5 9.7



#38

Dibenzo(a,h)anthracene

Concen: 0.167 ng

RT: 26.54 min Scan# 2944

Delta R.T. 0.02 min

Lab File: BE099393.D

Acq: 27 Apr 2019 00:42

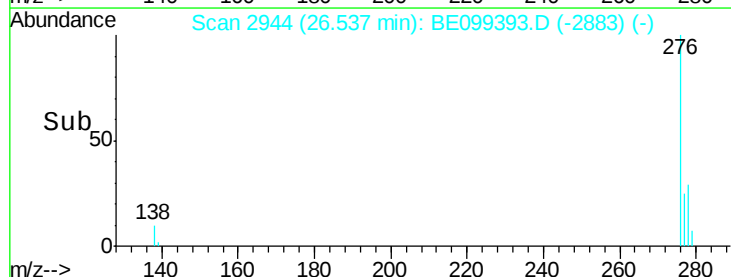
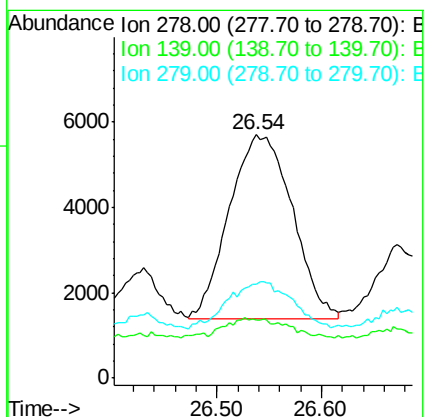
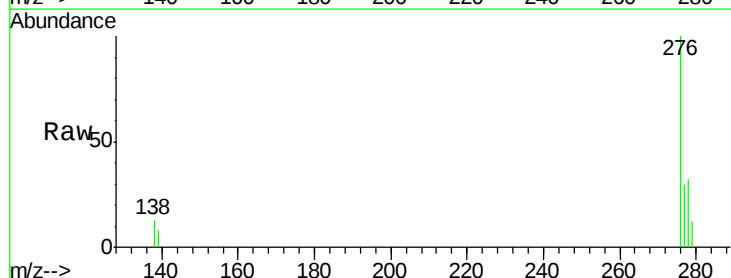
Tgt Ion:278 Resp: 17982

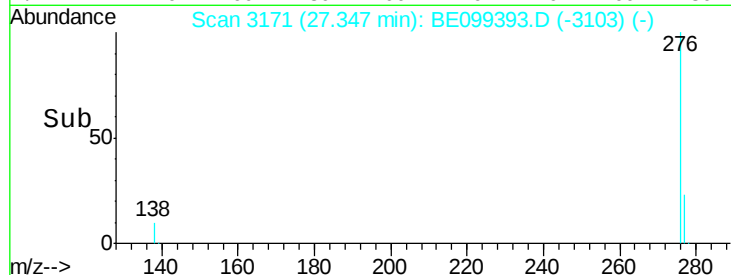
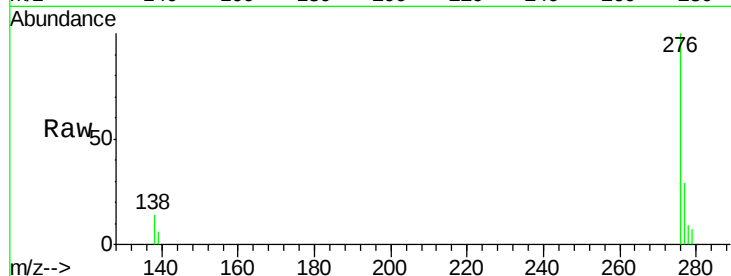
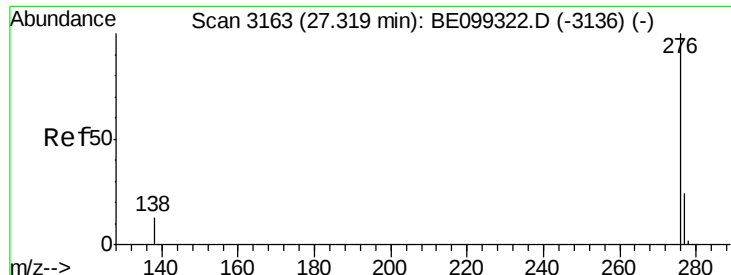
Ion Ratio Lower Upper

278 100

139 24.0 8.5 12.7#

279 38.3 19.8 29.8#





#39
 Benzo(a,h,i)perylene
 Concen: 0.567 ng
 RT: 27.35 min Scan# 3171
 Delta R.T. 0.04 min
 Lab File: BE099393.D
 Acq: 27 Apr 2019 00:42

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW023-042219

Tot Ion:276	Resp:	61863
Ion Ratio	Lower	Upper
276	100	
277	29.2	20.0 30.0
138	13.8	11.1 16.7

