

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051019\
 Data File : BE099598.D
 Acq On : 10 May 2019 14:41
 Operator : JU/SJ
 Sample : PB119621BS
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 11 01:00:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE050919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 09 13:32:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	2063	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	6872	0.40	ng	0.00
13) Acenaphthene-d10	14.50	164	4291	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	11493	0.40	ng	0.00
27) Chrysene-d12	21.43	240	17570	0.40	ng	0.00
34) Perylene-d12	23.97	264	21663	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	1823	0.32	ng	0.00
5) Phenol-d6	6.98	99	2431	0.33	ng	0.00
8) Nitrobenzene-d5	8.98	82	2143	0.33	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	5216	0.45	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	635	0.25	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	5697	0.34	ng	0.00
25) Fluoranthene-d10	19.27	212	50865	0.34	ng	0.00
29) Terphenyl-d14	19.87	244	11147	0.36	ng	0.00

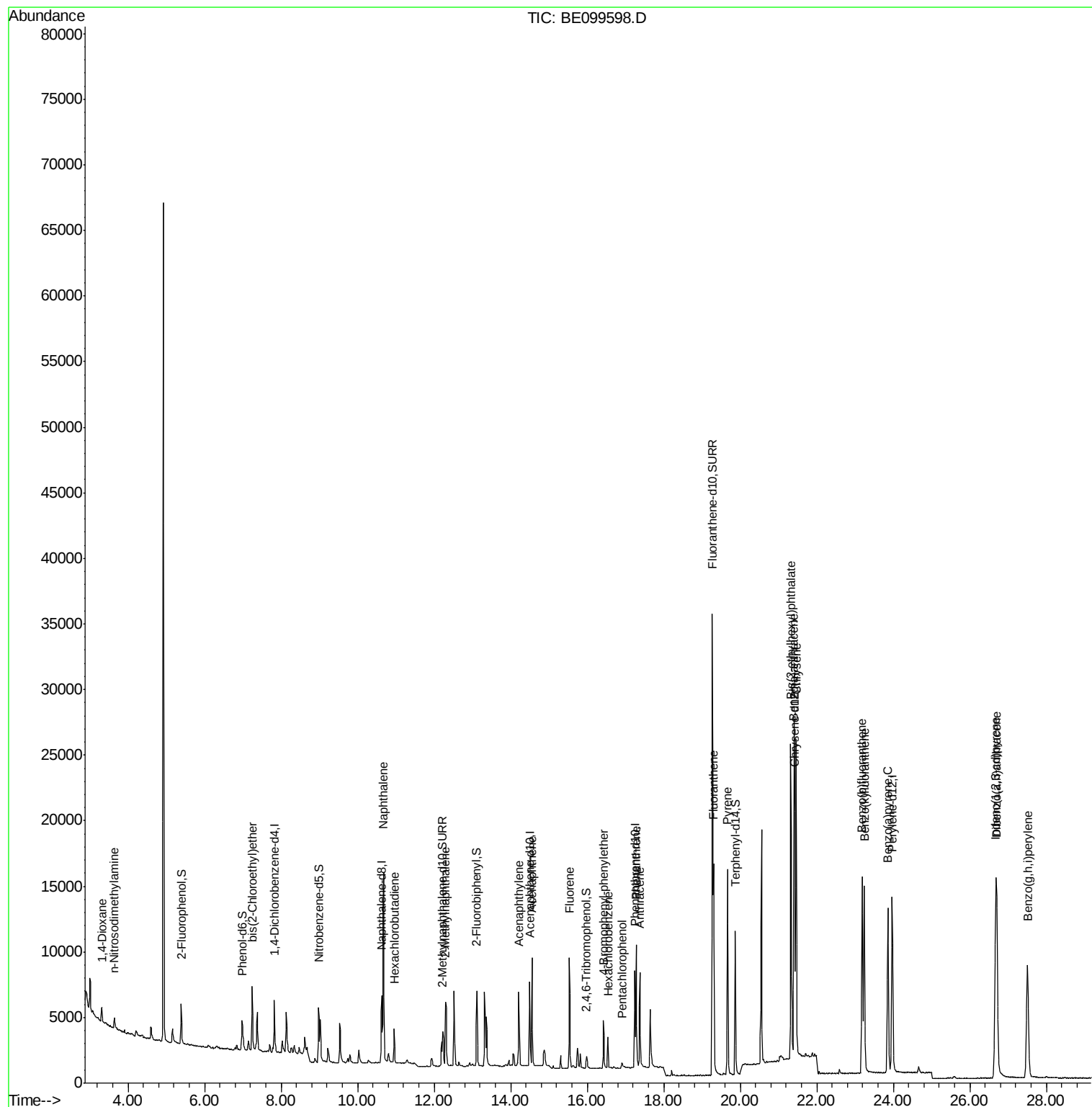
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.31	88	898	0.309	ng	# 79
3) n-Nitrosodimethylamine	3.64	42	587	0.326	ng	# 95
6) bis(2-Chloroethyl)ether	7.24	93	2121	0.344	ng	97
9) Naphthalene	10.68	128	25568	0.349	ng	100
10) Hexachlorobutadiene	10.95	225	1781	0.337	ng	98
12) 2-Methylnaphthalene	12.29	142	4156	0.347	ng	98
16) Acenaphthylene	14.21	152	6634	0.319	ng	99
17) Acenaphthene	14.56	154	3901	0.336	ng	99
18) Fluorene	15.53	166	5474	0.331	ng	98
20) 4-Bromophenyl-phenylether	16.43	248	2219	0.338	ng	94
21) Hexachlorobenzene	16.55	284	2279	0.346	ng	98
22) Pentachlorophenol	16.91	266	480	0.379	ng	# 90
23) Phenanthrene	17.28	178	9842	0.345	ng	100
24) Anthracene	17.38	178	8873	0.331	ng	99
26) Fluoranthene	19.31	202	15205	0.354	ng	100
28) Pyrene	19.67	202	16203	0.350	ng	99
30) Benzo(a)anthracene	21.40	228	21902	0.408	ng	98
31) Chrysene	21.46	228	21206	0.395	ng	99
32) Bis(2-ethylhexyl)phthalate	21.32	149	29919	0.388	ng	100
33) Indeno(1,2,3-cd)pyrene	26.68	276	27330	0.408	ng	99
35) Benzo(b)fluoranthene	23.18	252	21992	0.367	ng	99
36) Benzo(k)fluoranthene	23.24	252	23306	0.392	ng	98
37) Benzo(a)pyrene	23.85	252	21955	0.379	ng	98
38) Dibenzo(a,h)anthracene	26.71	278	22767	0.376	ng	99
39) Benzo(g,h,i)perylene	27.50	276	23039	0.376	ng	99

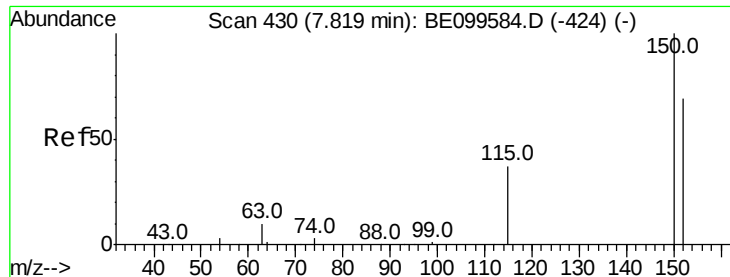
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

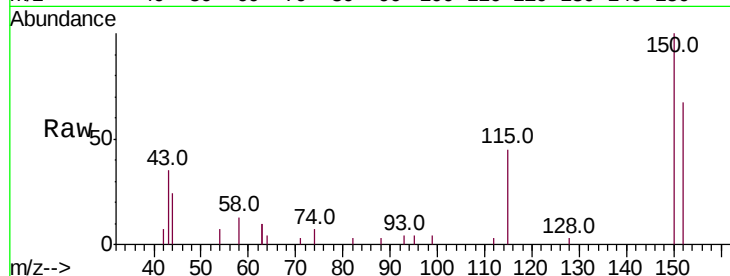
Tot Ion:152 Resp: 2063

Ion Ratio Lower Upper

152 100

150 149.7 114.2 171.4

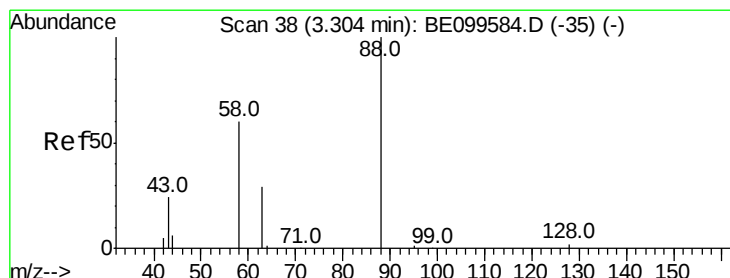
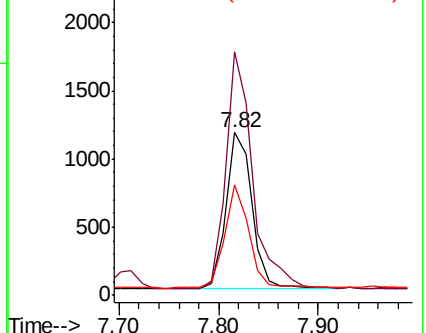
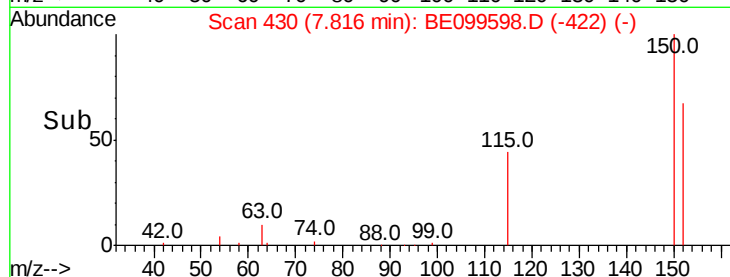
115 67.8 45.4 68.0



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



#2

1,4-Dioxane

Concen: 0.309 ng

RT: 3.31 min Scan# 39

Delta R.T. 0.01 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

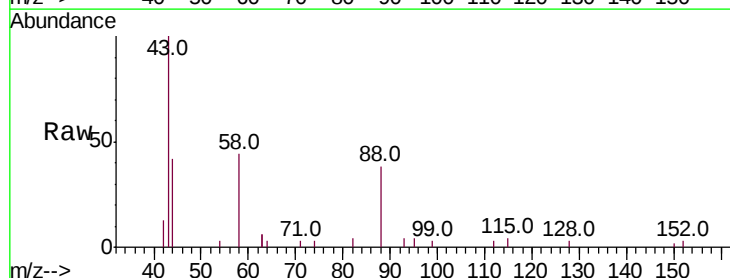
Tgt Ion: 88 Resp: 898

Ion Ratio Lower Upper

88 100

58 56.7 41.3 61.9

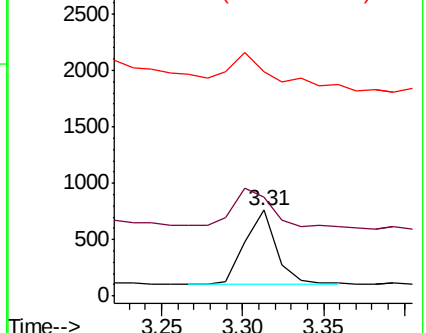
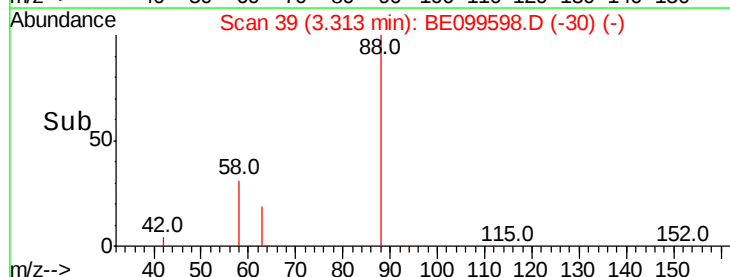
43 51.1 21.0 31.6#

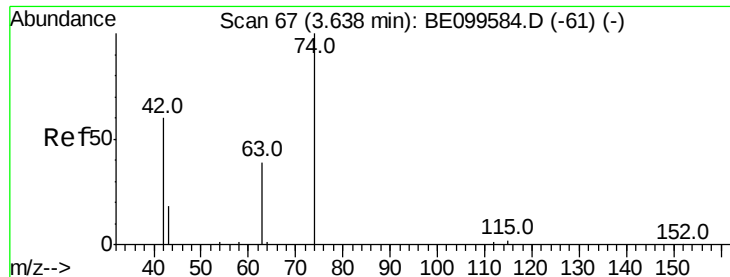


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.326 ng

RT: 3.64 min Scan# 67

Delta R.T. -0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampled :

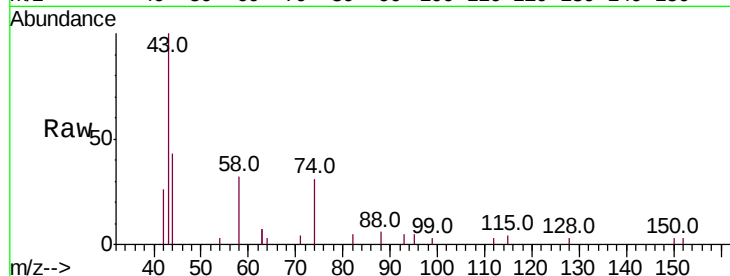
Tot Ion: 42 Resp: 587

Ion Ratio Lower Upper

42 100

74 177.7 136.9 205.3

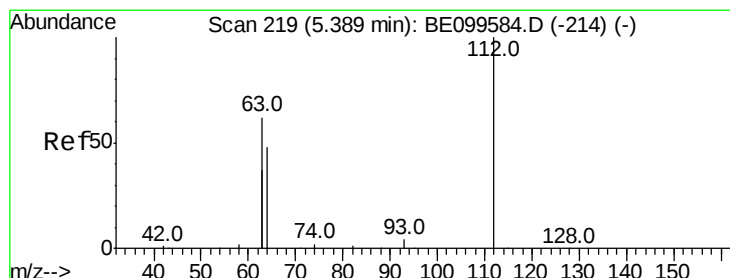
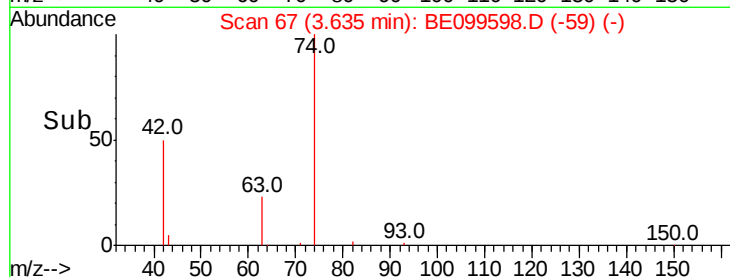
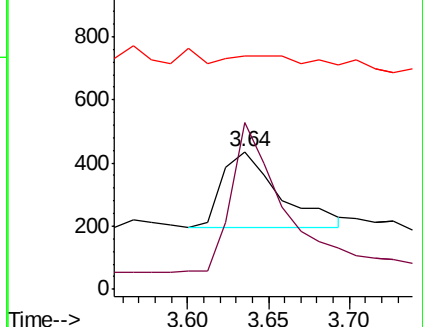
44 12.1 7.1 10.7#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.323 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

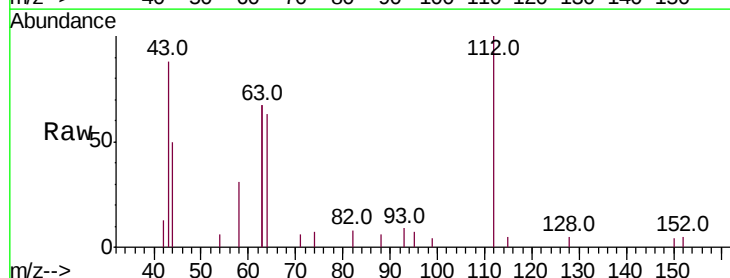
Tgt Ion: 112 Resp: 1823

Ion Ratio Lower Upper

112 100

64 57.9 46.2 69.4

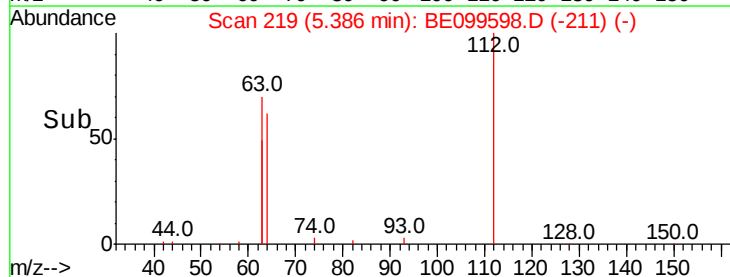
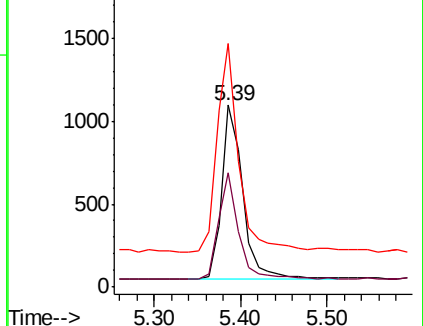
63 121.3 100.2 150.4

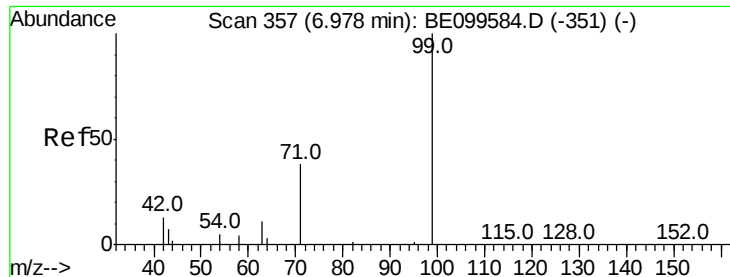


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.328 ng

RT: 6.98 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

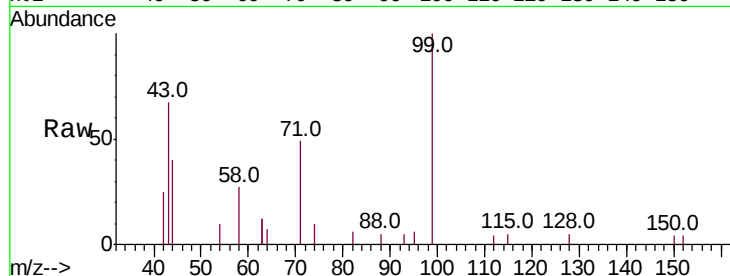
Tot Ion: 99 Resp: 2431

Ion Ratio Lower Upper

99 100

42 18.4 13.8 20.8

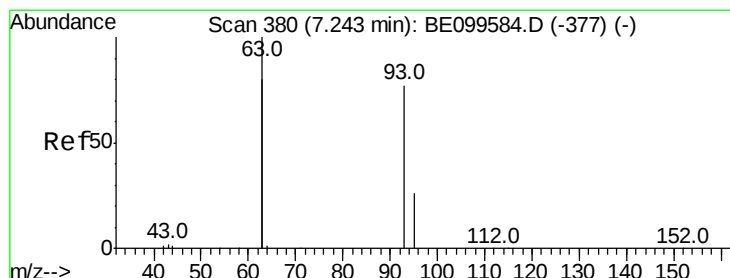
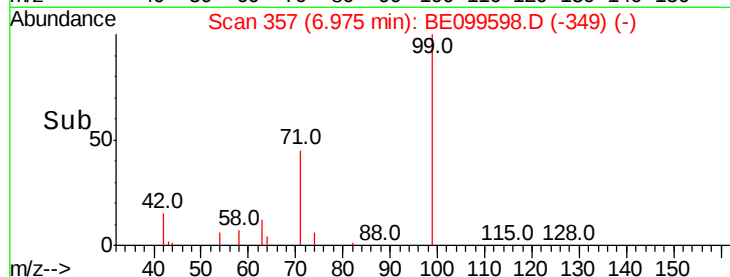
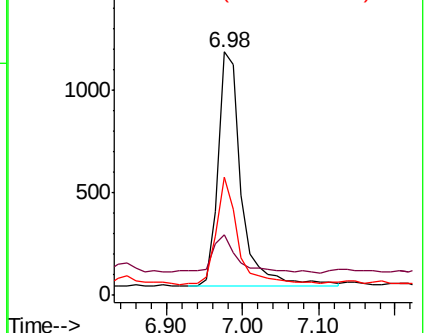
71 42.7 32.2 48.4



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



#6

bis(2-Chloroethyl)ether

Concen: 0.344 ng

RT: 7.24 min Scan# 380

Delta R.T. -0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

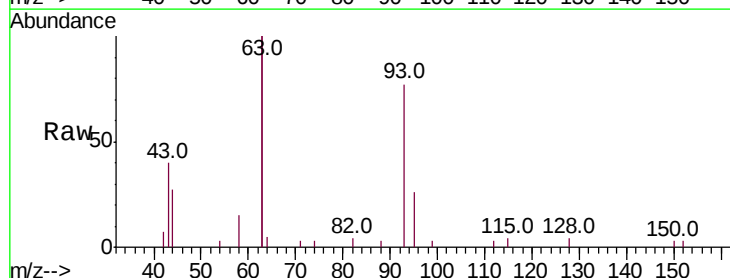
Tgt Ion: 93 Resp: 2121

Ion Ratio Lower Upper

93 100

63 261.7 213.4 320.0

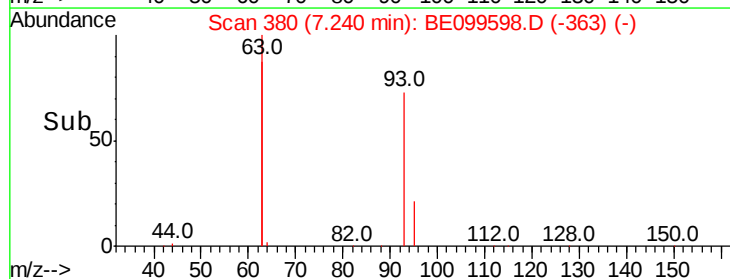
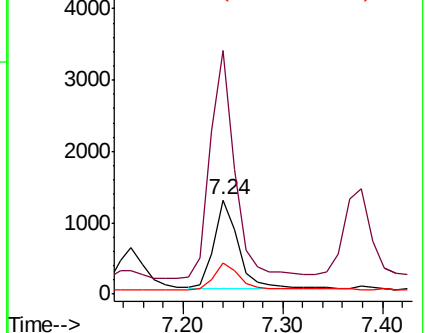
95 31.8 24.9 37.3

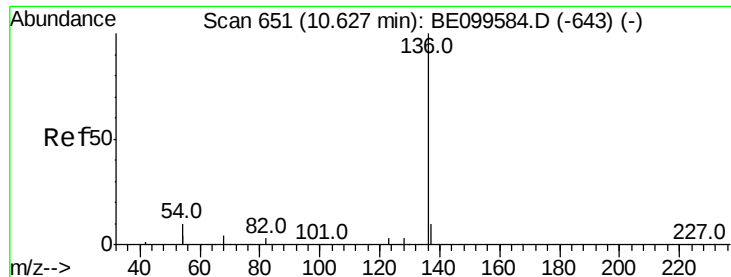


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 6872

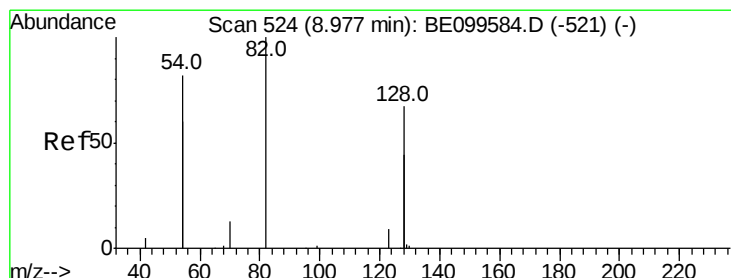
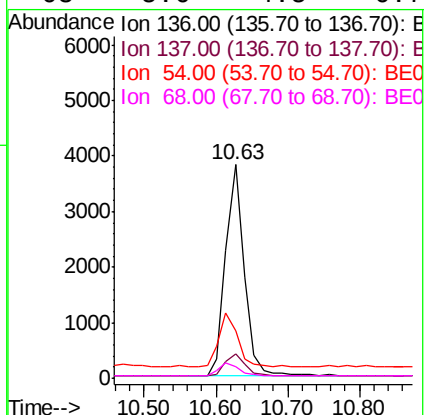
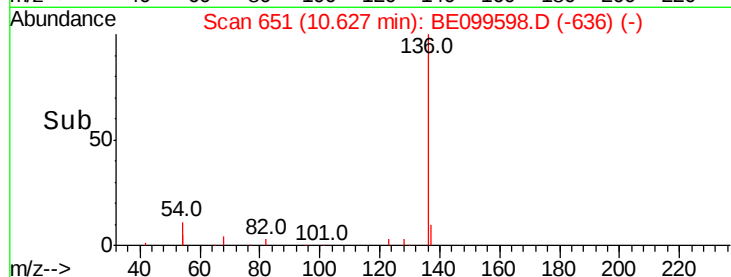
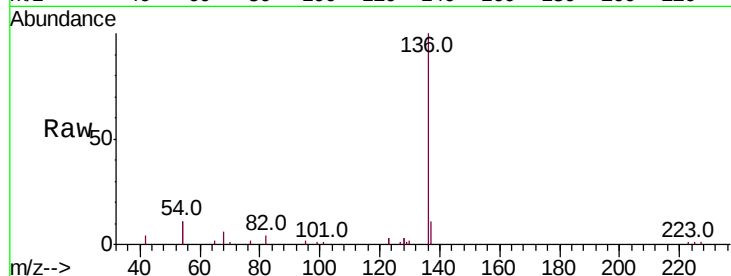
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 22.0 16.5 24.7

68 5.6 4.5 6.7



#8

Nitrobenzene-d5

Concen: 0.332 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

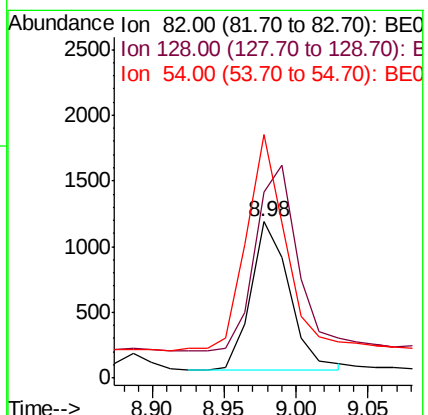
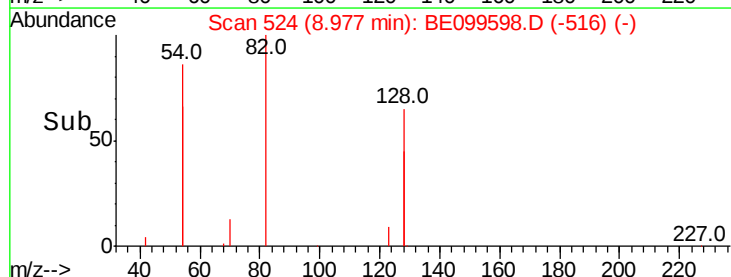
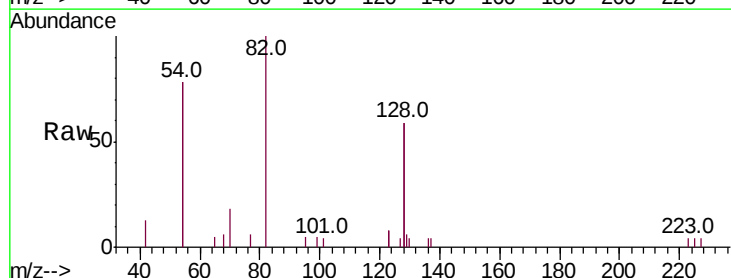
Tgt Ion: 82 Resp: 2143

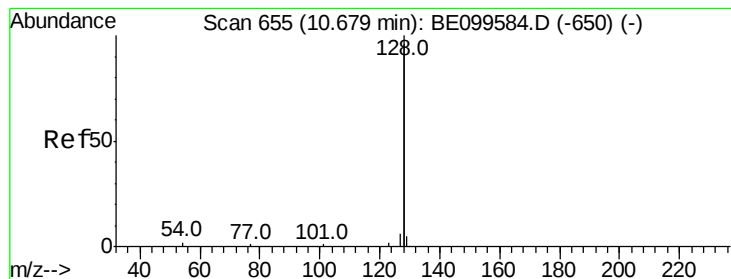
Ion Ratio Lower Upper

82 100

128 118.9 101.5 152.3

54 155.8 123.8 185.6





#9

Naphthalene

Concen: 0.349 ng

RT: 10.68 min Scan# 655

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

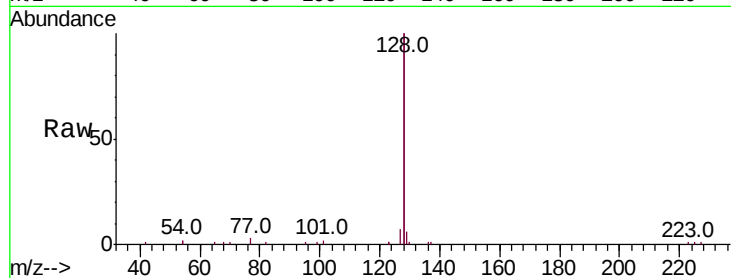
Tot Ion:128 Resp: 25568

Ion Ratio Lower Upper

128 100

129 2.9 2.4 3.6

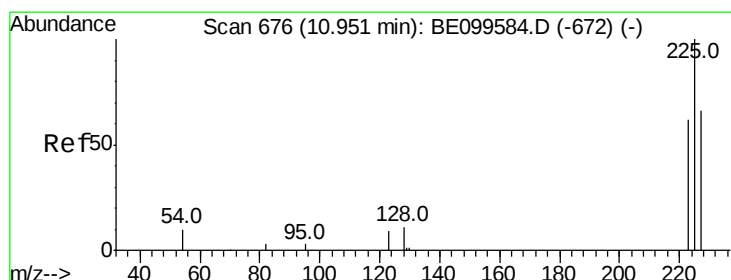
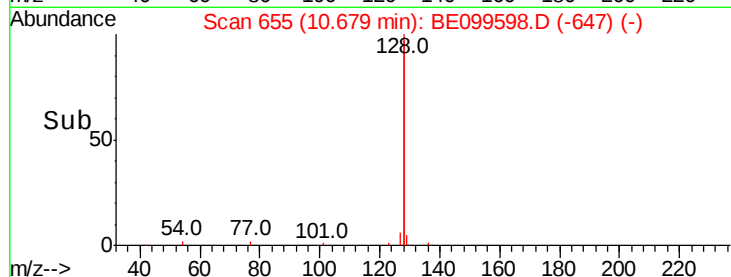
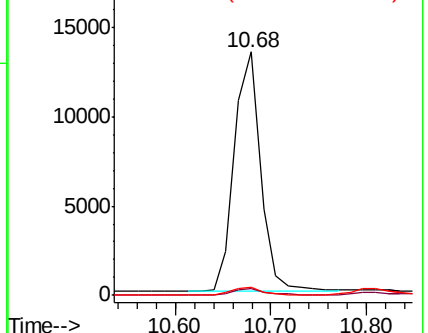
127 3.4 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.337 ng

RT: 10.95 min Scan# 676

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

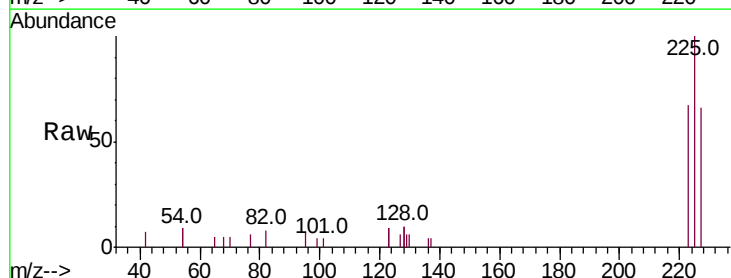
Tgt Ion:225 Resp: 1781

Ion Ratio Lower Upper

225 100

223 63.6 49.6 74.4

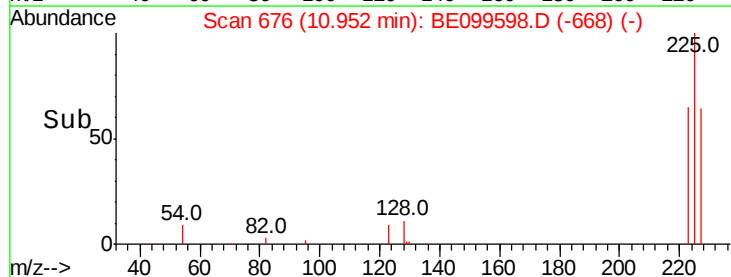
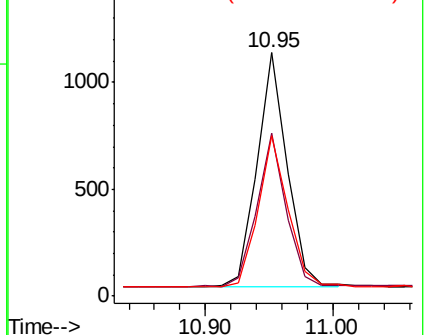
227 63.6 50.1 75.1

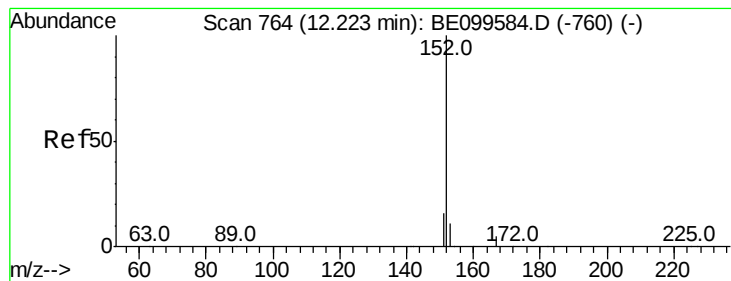


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

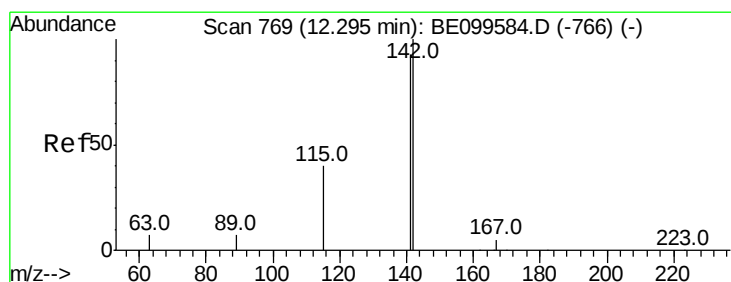
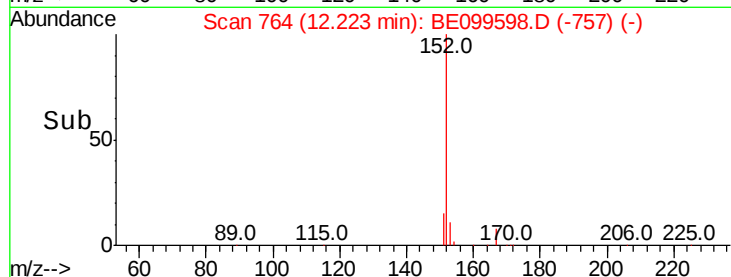
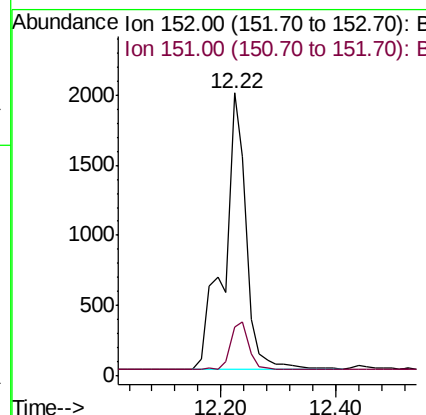
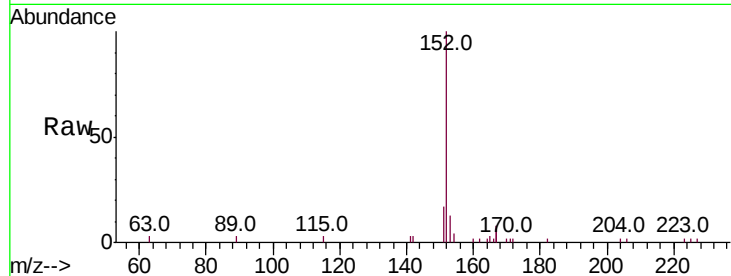




#11
 2-Methylnaphthalene-d10
 Concen: 0.453 ng
 RT: 12.22 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: BE099598.D
 Acq: 10 May 2019 14:41

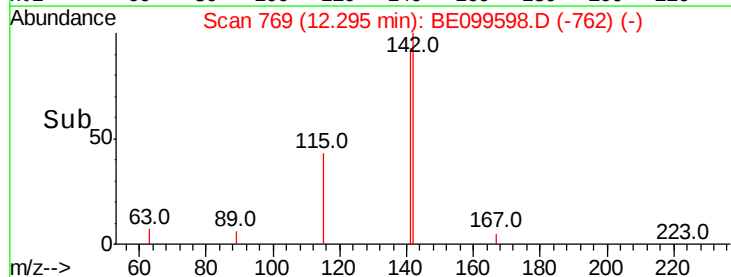
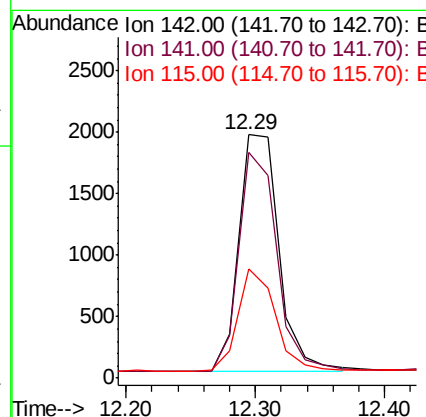
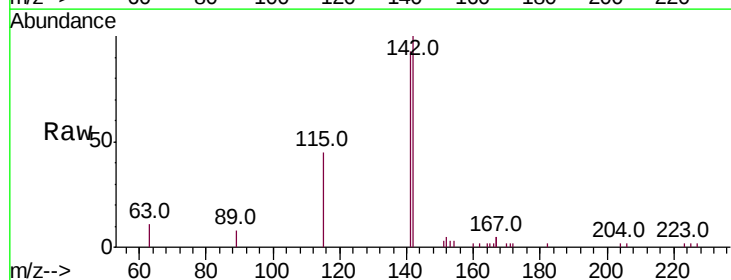
Instrument :
 BNA_E
 ClientSampleId :

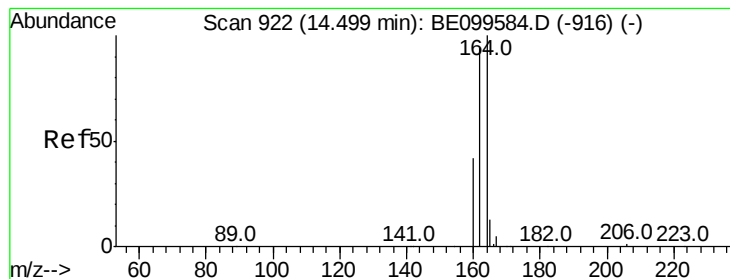
Tot Ion:152 Resp: 5216
 Ion Ratio Lower Upper
 152 100
 151 14.2 16.2 24.2#



#12
 2-Methylnaphthalene
 Concen: 0.347 ng
 RT: 12.29 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: BE099598.D
 Acq: 10 May 2019 14:41

Tgt Ion:142 Resp: 4156
 Ion Ratio Lower Upper
 142 100
 141 92.8 75.0 112.4
 115 45.1 33.7 50.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.50 min Scan# 922

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

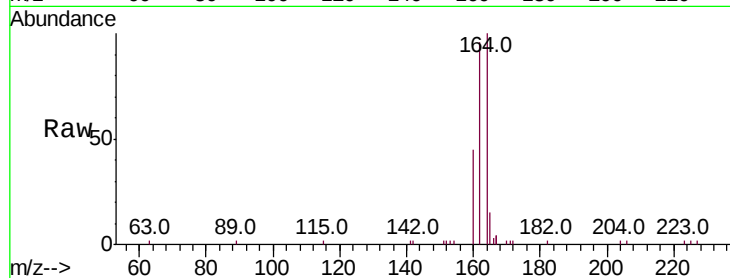
Tot Ion:164 Resp: 4291

Ion Ratio Lower Upper

164 100

162 95.6 75.3 112.9

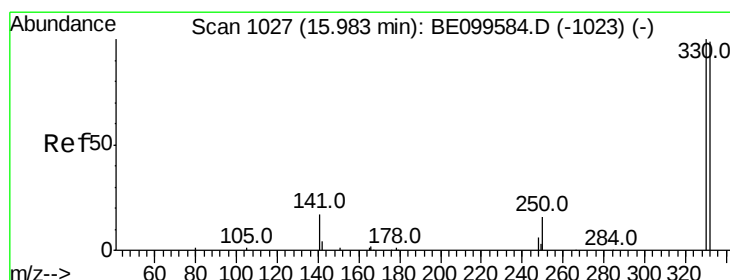
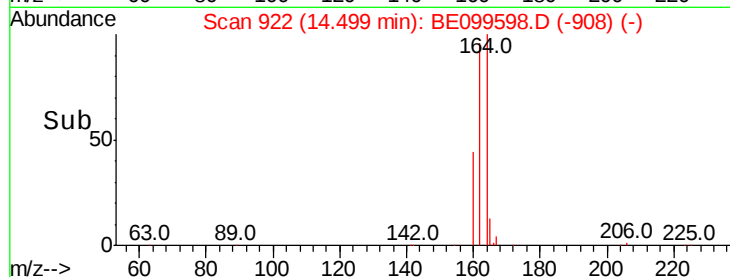
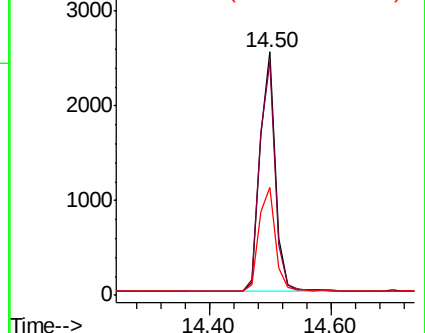
160 44.5 34.7 52.1



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: 0.250 ng

RT: 15.98 min Scan# 1027

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

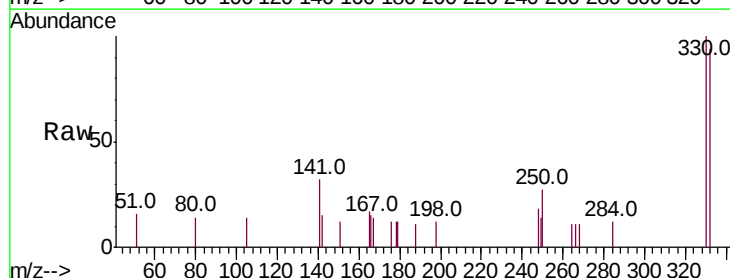
Tgt Ion:330 Resp: 635

Ion Ratio Lower Upper

330 100

332 97.2 78.7 118.1

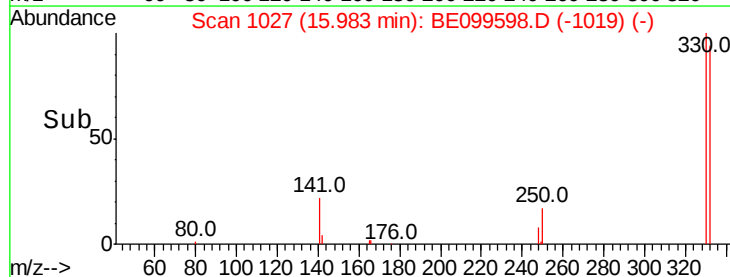
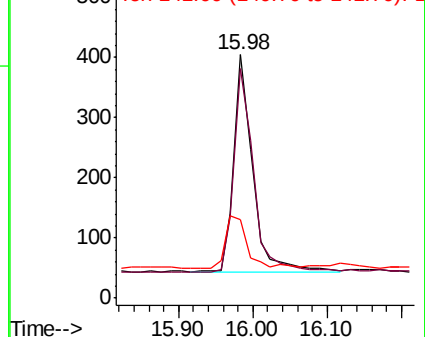
141 29.0 22.3 33.5

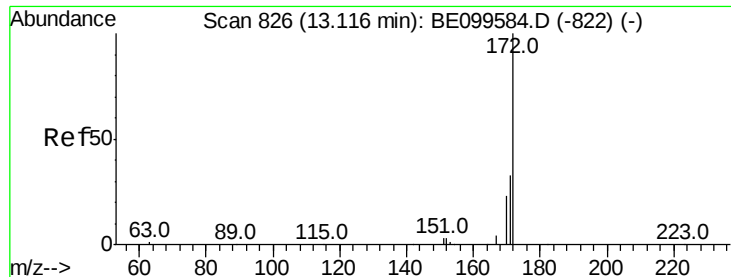


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

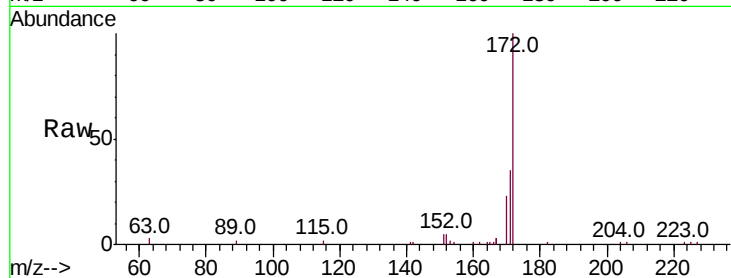




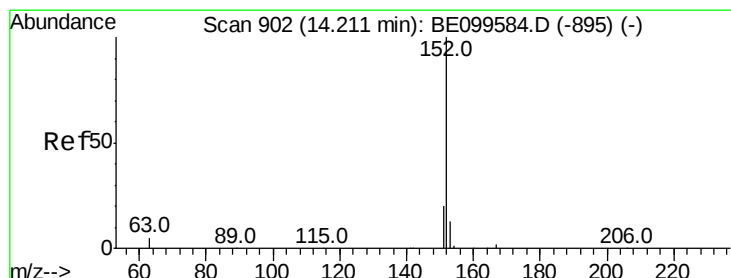
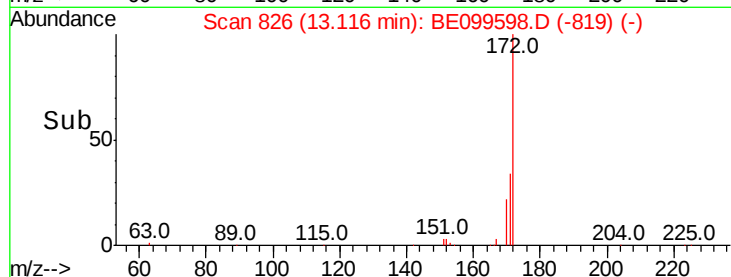
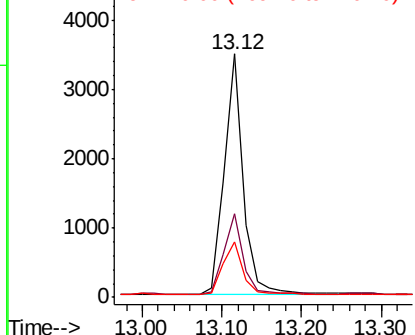
#15
2-Fluorobiphenyl
Concen: 0.342 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE099598.D
Acq: 10 May 2019 14:41

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 5697
Ion Ratio Lower Upper
172 100
171 34.6 27.5 41.3
170 22.8 19.1 28.7

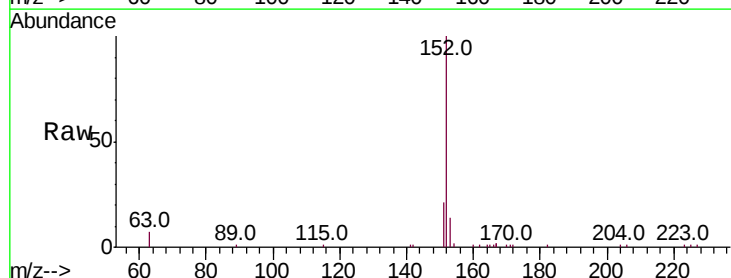


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

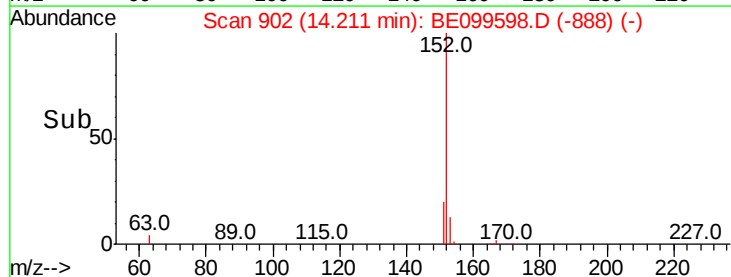
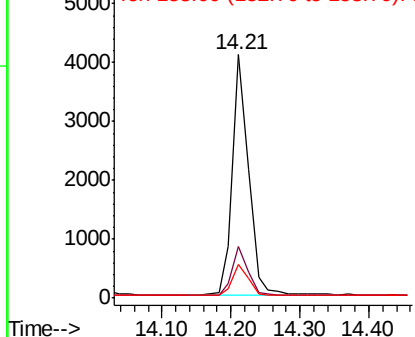


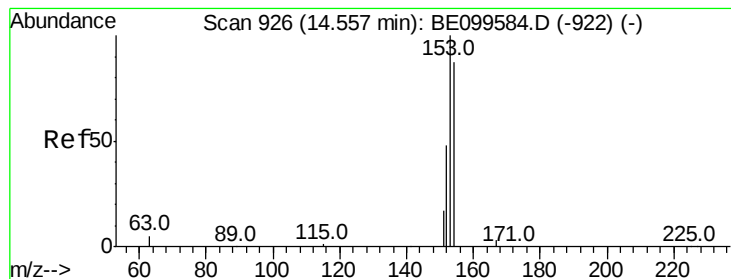
#16
Acenaphthylene
Concen: 0.319 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.00 min
Lab File: BE099598.D
Acq: 10 May 2019 14:41

Tgt Ion:152 Resp: 6634
Ion Ratio Lower Upper
152 100
151 19.7 15.5 23.3
153 13.2 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.336 ng

RT: 14.56 min Scan# 926

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

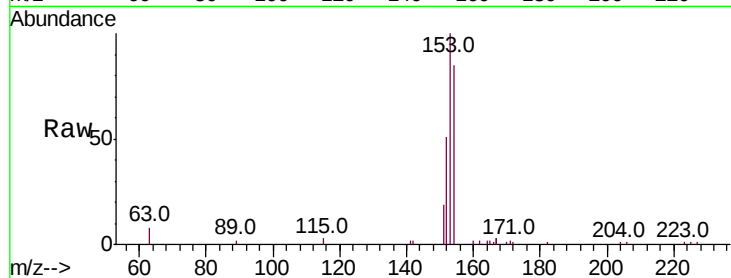
Instrument :

BNA_E

ClientSampleId :

Tot Ion:154 Resp: 3901

Ion	Ratio	Lower	Upper
154	100		
153	117.3	92.9	139.3
152	58.5	46.3	69.5

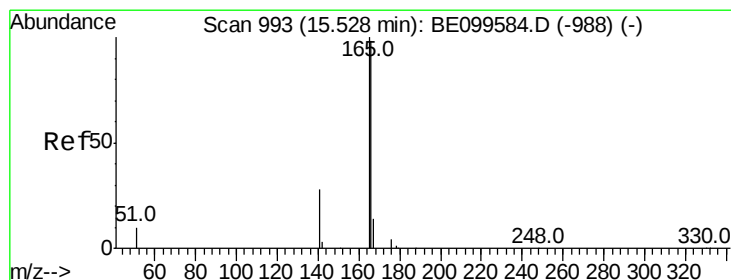
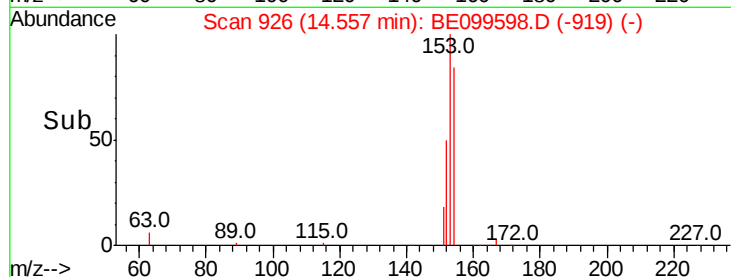
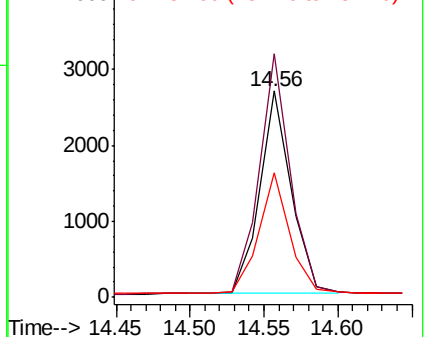


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.331 ng

RT: 15.53 min Scan# 993

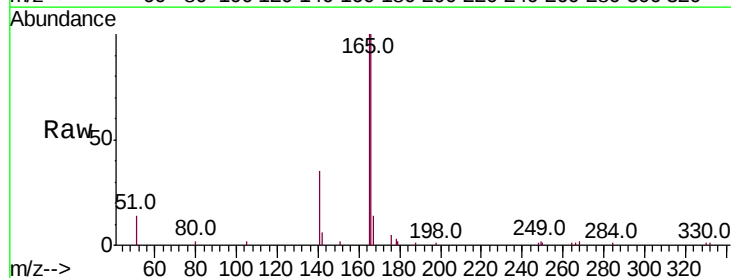
Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Tgt Ion:166 Resp: 5474

Ion	Ratio	Lower	Upper
166	100		
165	98.7	80.5	120.7
167	12.9	11.6	17.4

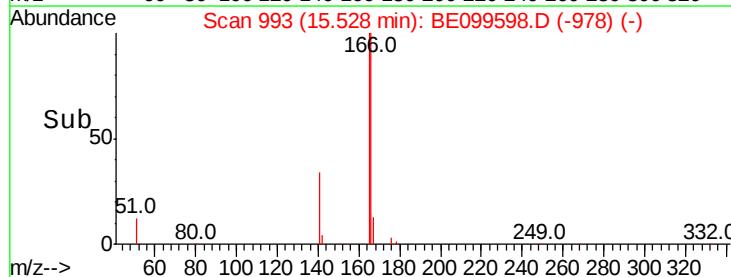
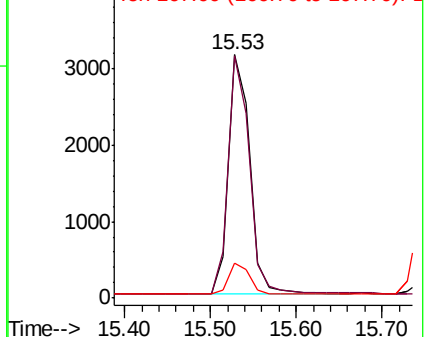


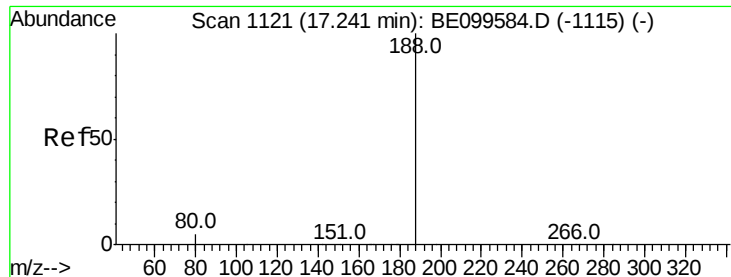
Abundance

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: 17.24 min Scan# 1121

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

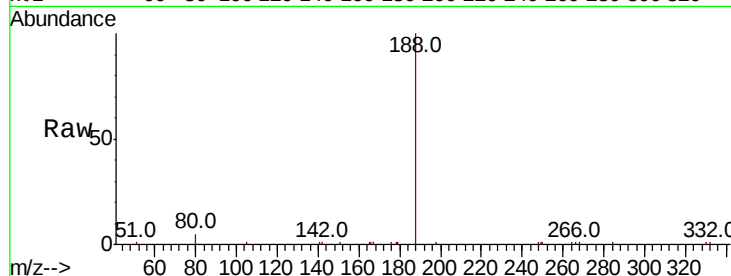
Tot Ion:188 Resp: 11493

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

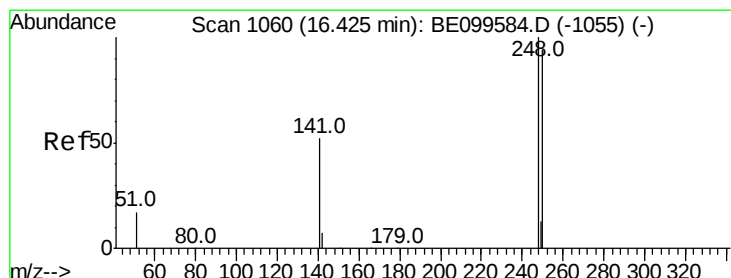
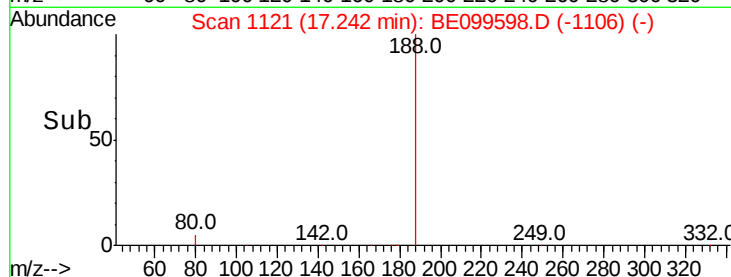
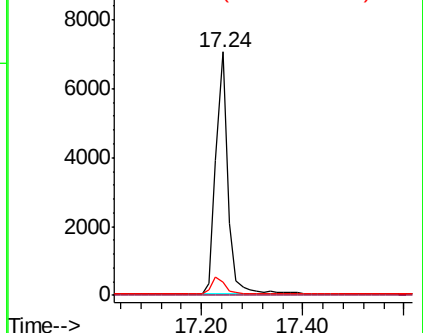
80 5.4 4.4 6.6



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



#20

4-Bromophenyl-phenylether

Concen: 0.338 ng

RT: 16.43 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

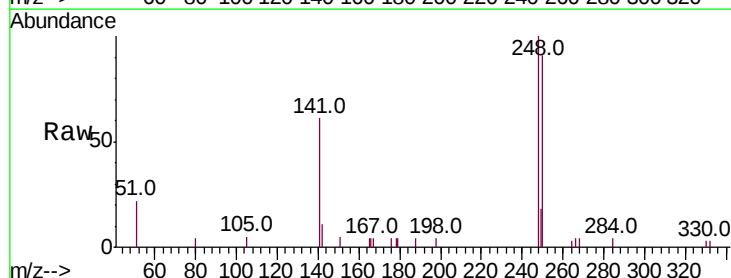
Tgt Ion:248 Resp: 2219

Ion Ratio Lower Upper

248 100

250 91.3 75.7 113.5

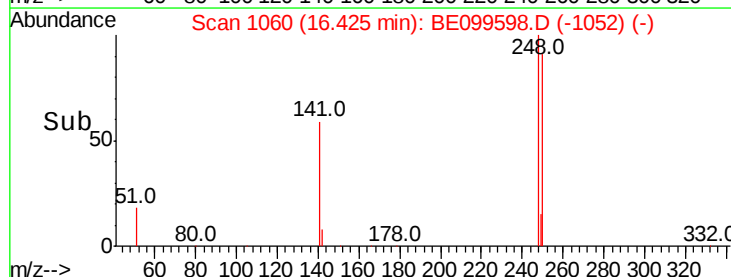
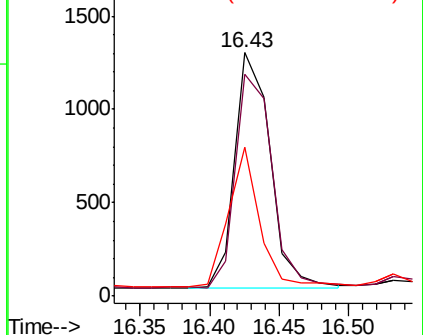
141 61.2 42.9 64.3

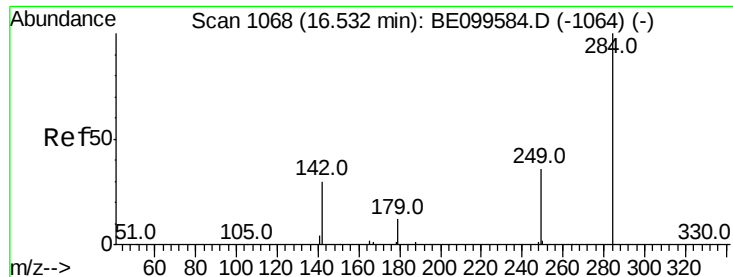


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.346 ng

RT: 16.55 min Scan# 1069

Delta R.T. 0.01 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

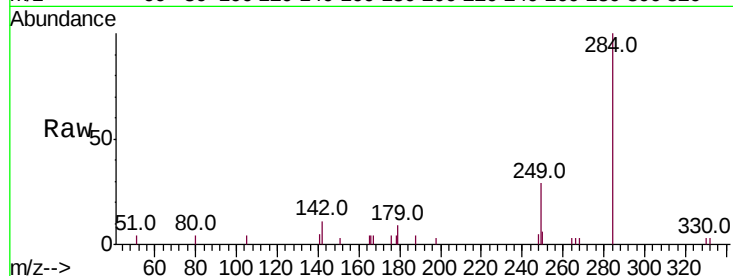
Tot Ion:284 Resp: 2279

Ion Ratio Lower Upper

284 100

142 24.0 20.6 30.8

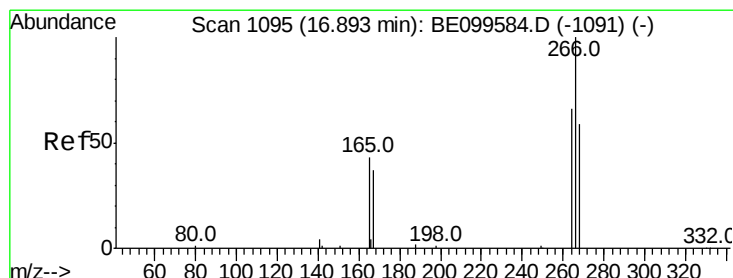
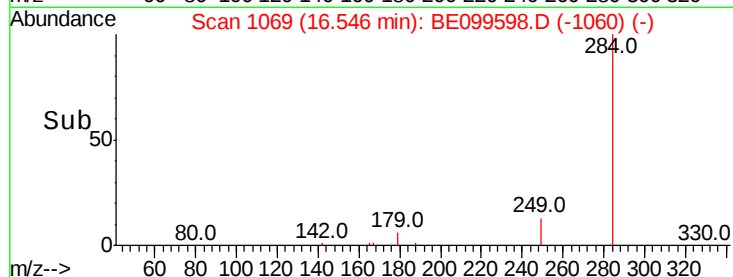
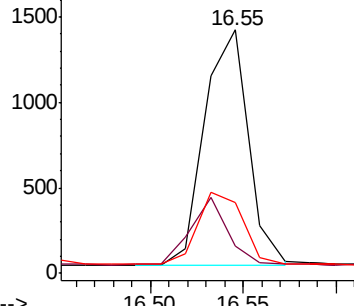
249 31.7 25.8 38.6



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.379 ng

RT: 16.91 min Scan# 1096

Delta R.T. 0.01 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

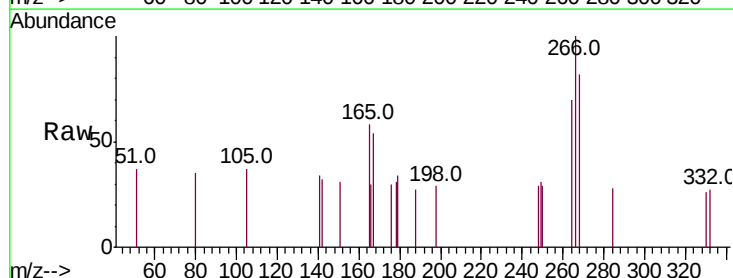
Tgt Ion:266 Resp: 480

Ion Ratio Lower Upper

266 100

264 70.5 57.3 85.9

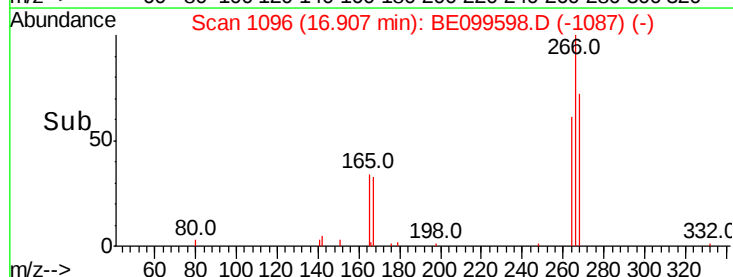
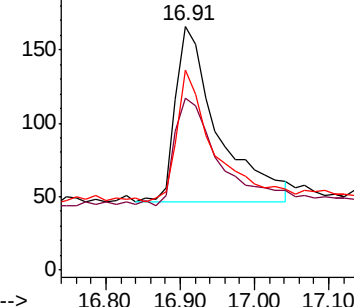
268 81.9 53.5 80.3#

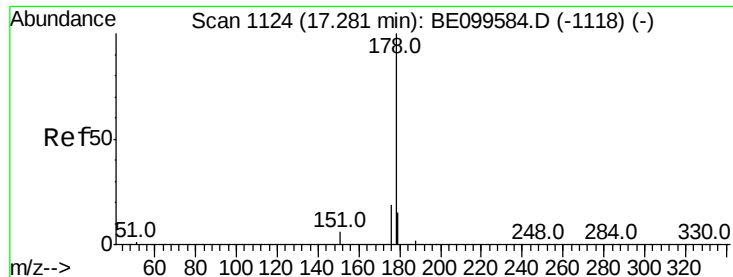


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.345 ng

RT: 17.28 min Scan# 1124

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

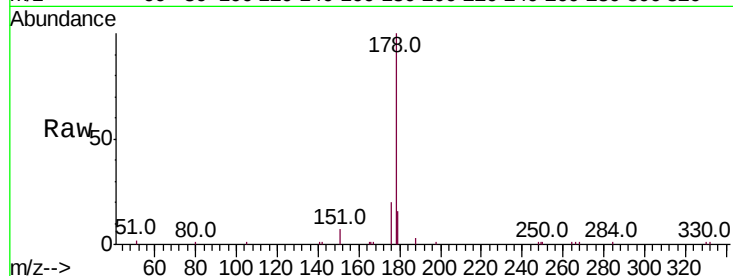
Instrument :

BNA_E

ClientSampleId :

Tot Ion:178 Resp: 9842

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	15.2	12.2	18.2

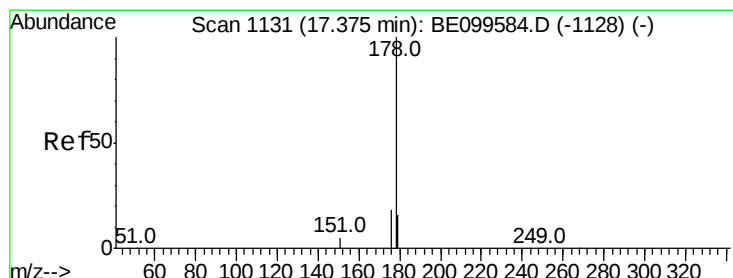
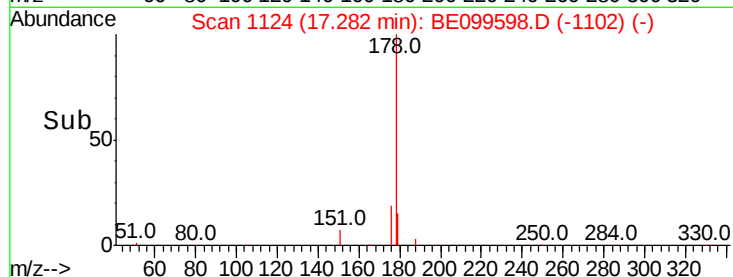
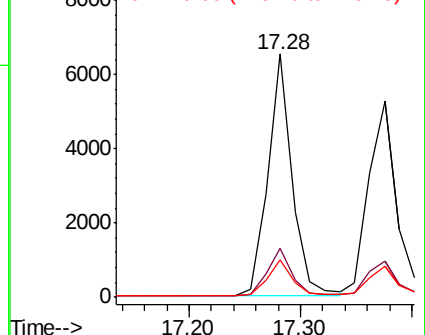


Abundance

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: 0.331 ng

RT: 17.38 min Scan# 1131

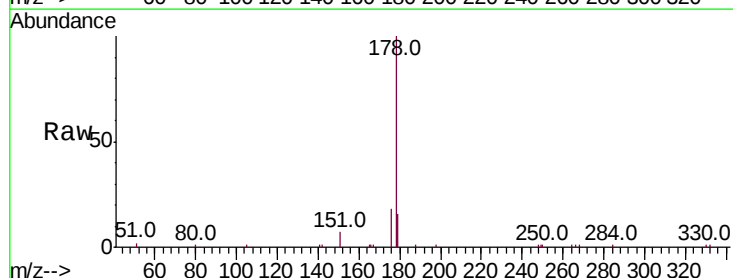
Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Tgt Ion:178 Resp: 8873

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.8	22.2
179	14.9	12.3	18.5

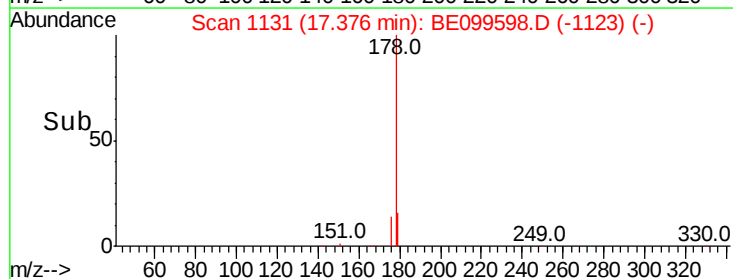
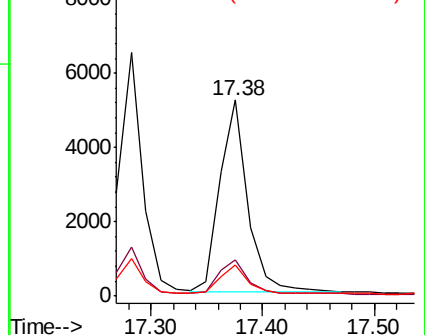


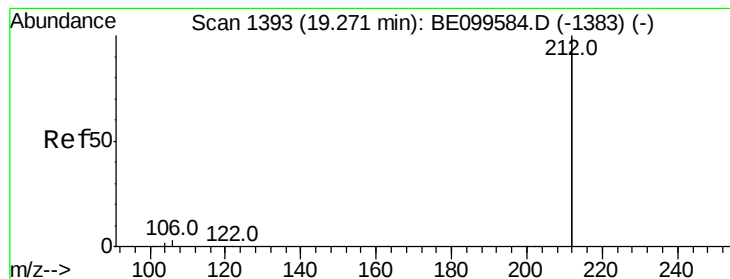
Abundance

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: 0.337 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

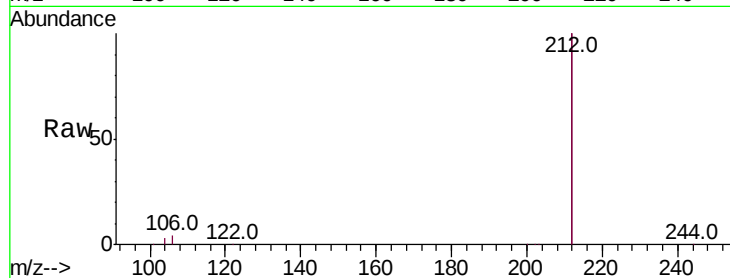
Tot Ion:212 Resp: 50865

Ion Ratio Lower Upper

212 100

106 1.8 1.4 2.2

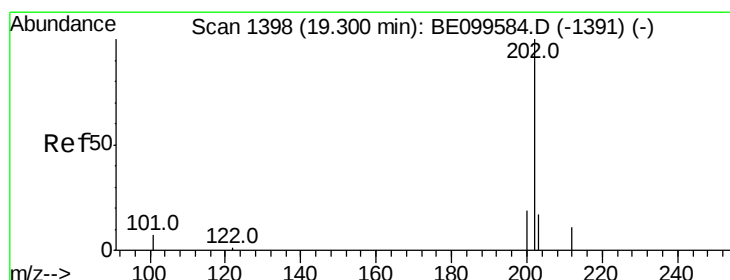
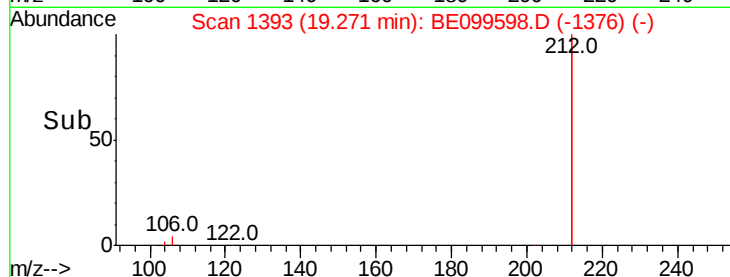
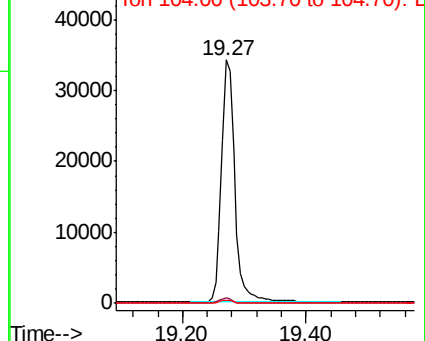
104 1.1 0.9 1.3



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.354 ng

RT: 19.31 min Scan# 1399

Delta R.T. 0.01 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

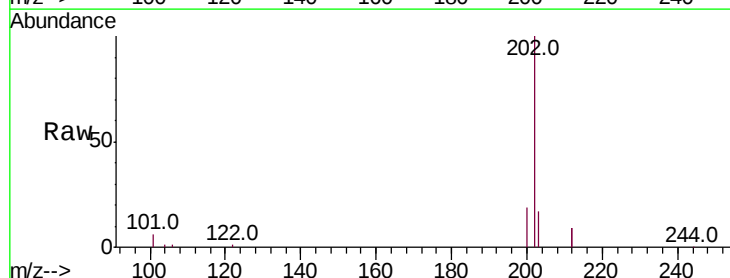
Tgt Ion:202 Resp: 15205

Ion Ratio Lower Upper

202 100

101 6.7 5.4 8.2

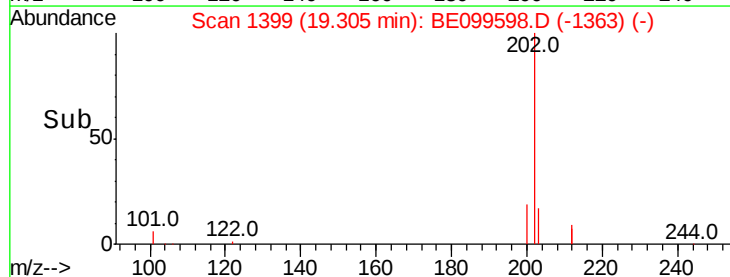
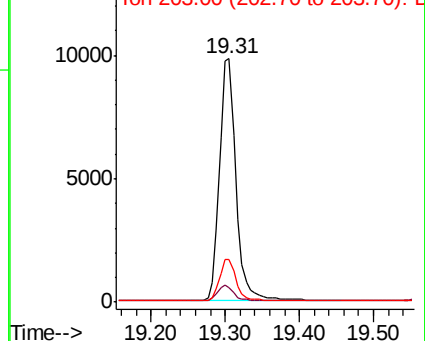
203 17.0 13.7 20.5

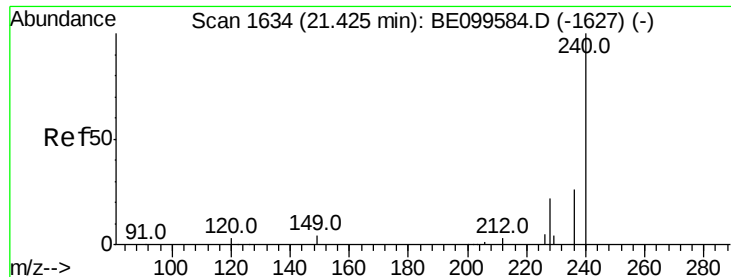


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

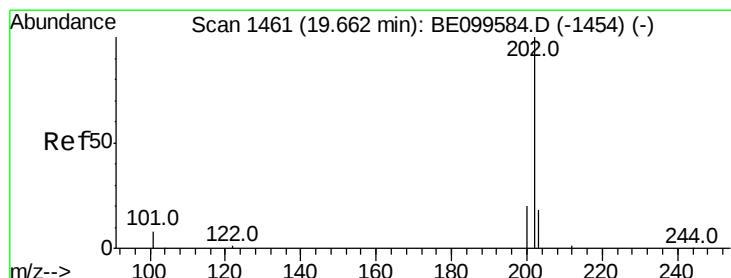
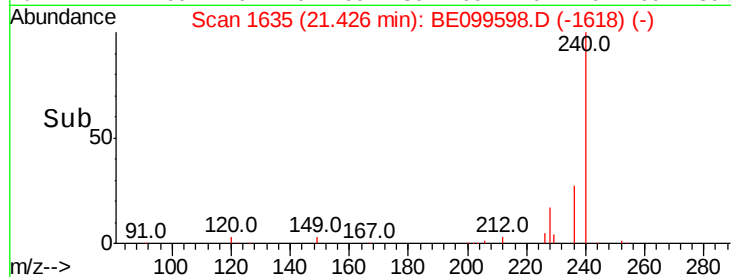
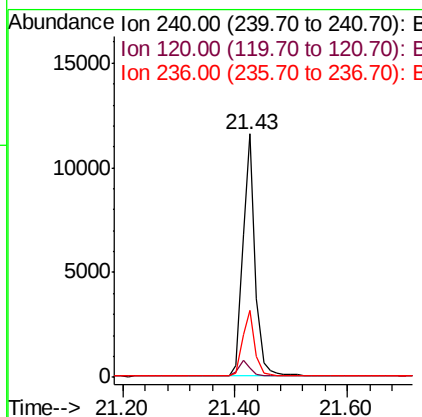
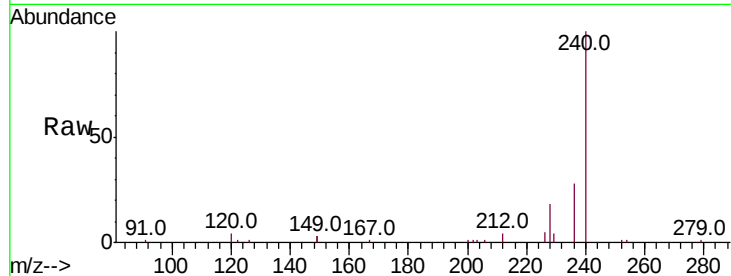




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: BE099598.D
 Acq: 10 May 2019 14:41

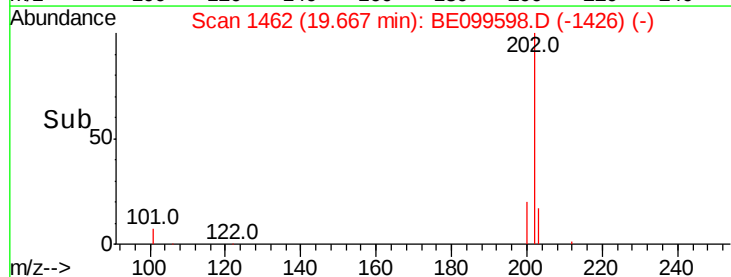
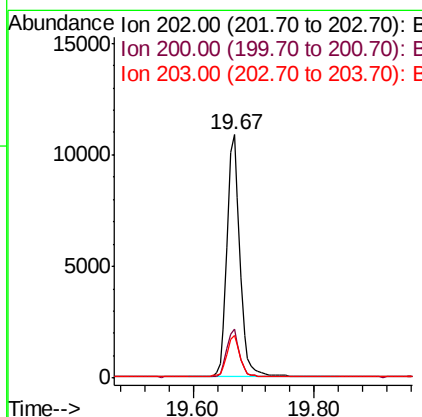
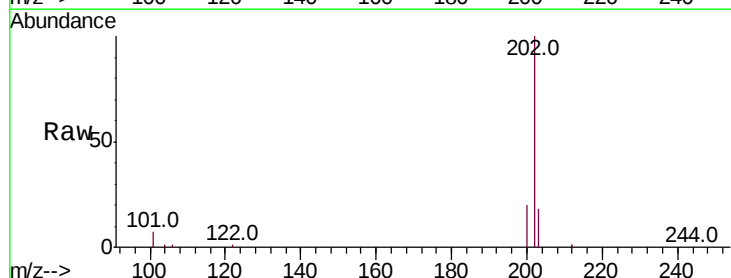
Instrument :
 BNA_E
 ClientSampleId :

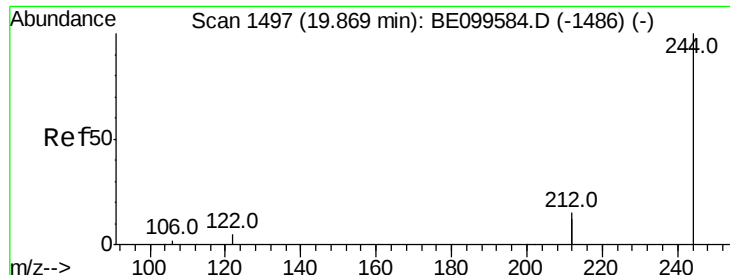
Tot Ion:240 Resp: 17570
 Ion Ratio Lower Upper
 240 100
 120 3.9 3.2 4.8
 236 27.7 21.0 31.6



#28
 Pyrene
 Concen: 0.350 ng
 RT: 19.67 min Scan# 1462
 Delta R.T. 0.01 min
 Lab File: BE099598.D
 Acq: 10 May 2019 14:41

Tgt Ion:202 Resp: 16203
 Ion Ratio Lower Upper
 202 100
 200 19.4 15.9 23.9
 203 18.0 14.1 21.1





#29

Terphenyl-d14

Concen: 0.357 ng

RT: 19.87 min Scan# 1497

Delta R.T. -0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampled :

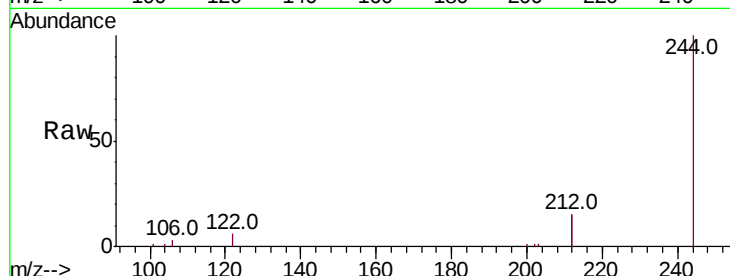
Tot Ion:244 Resp: 11147

Ion Ratio Lower Upper

244 100

212 29.9 24.4 36.6

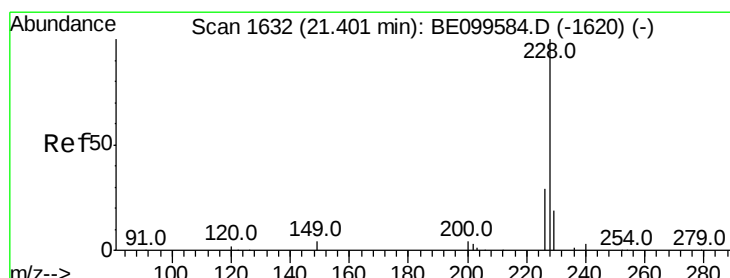
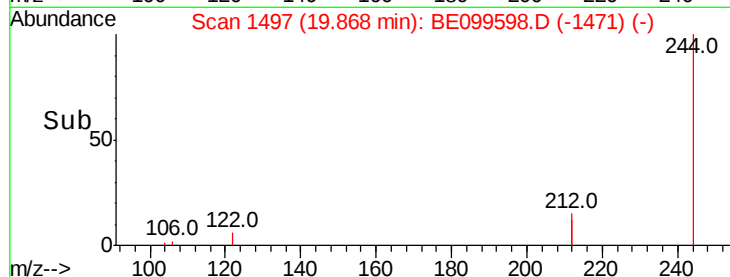
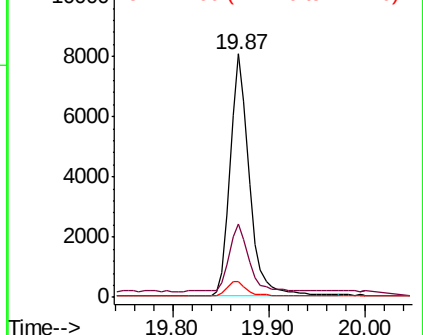
122 6.4 4.6 6.8



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: 0.408 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

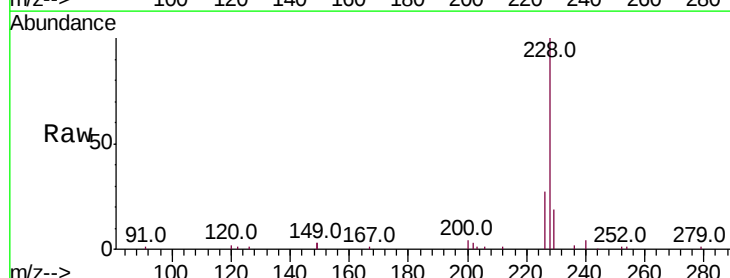
Tgt Ion:228 Resp: 21902

Ion Ratio Lower Upper

228 100

226 27.4 23.3 34.9

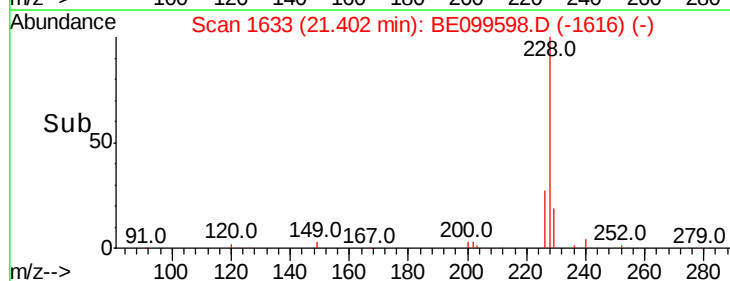
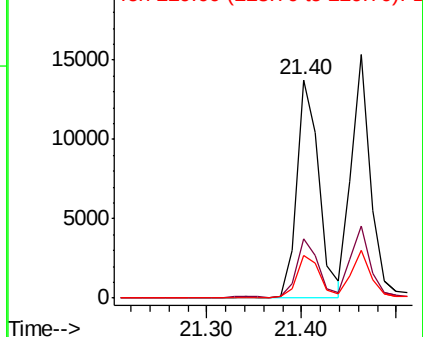
229 19.4 15.5 23.3

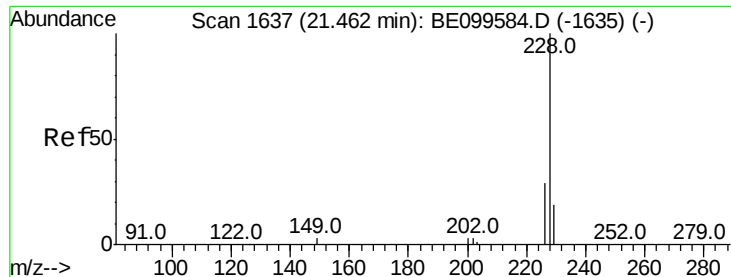


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.395 ng

RT: 21.46 min Scan# 1638

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampled :

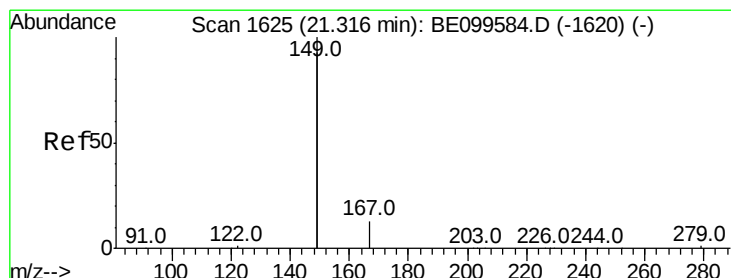
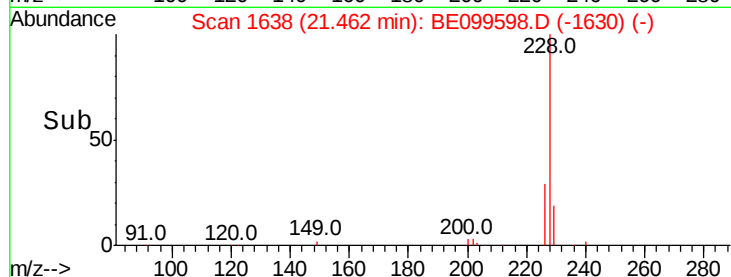
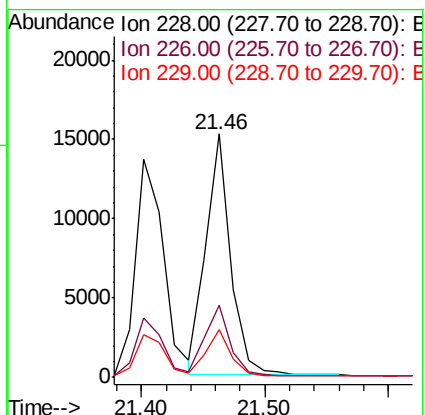
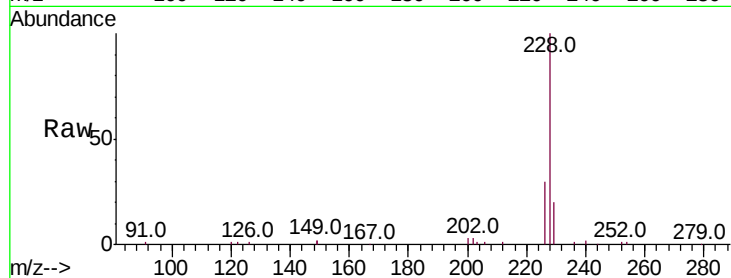
Tot Ion:228 Resp: 21206

Ion Ratio Lower Upper

228 100

226 29.5 23.2 34.8

229 19.8 15.6 23.4



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.388 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

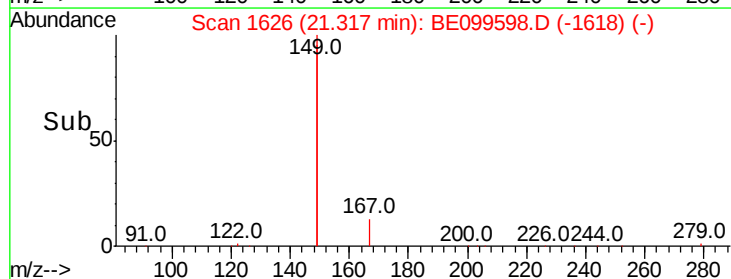
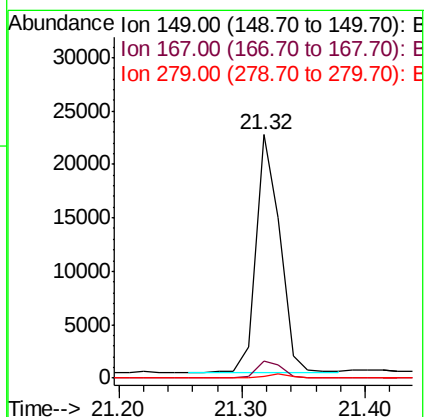
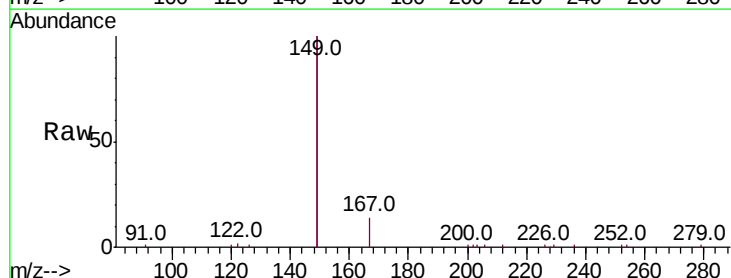
Tgt Ion:149 Resp: 29919

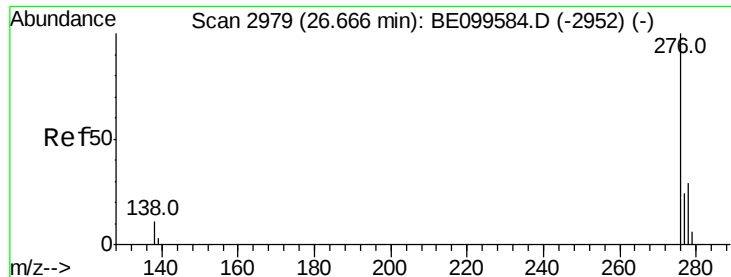
Ion Ratio Lower Upper

149 100

167 7.3 6.0 9.0

279 1.5 1.1 1.7

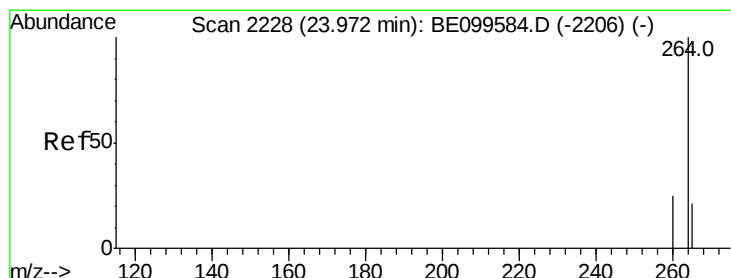
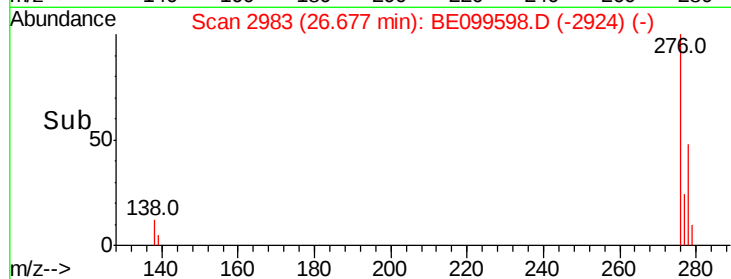
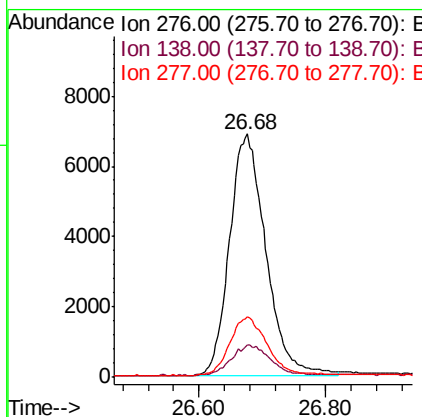
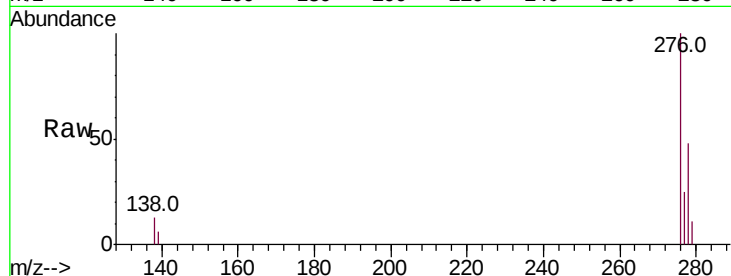




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.408 ng
 RT: 26.68 min Scan# 2983
 Delta R.T. 0.01 min
 Lab File: BE099598.D
 Acq: 10 May 2019 14:41

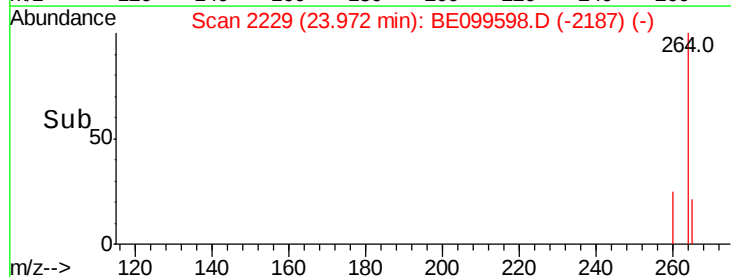
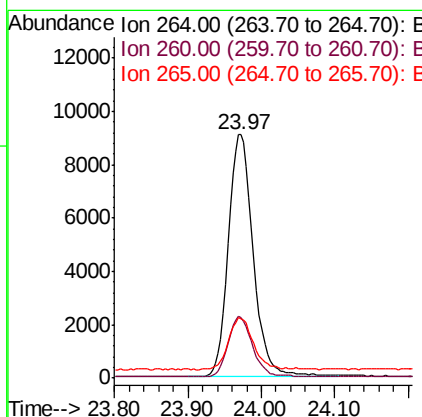
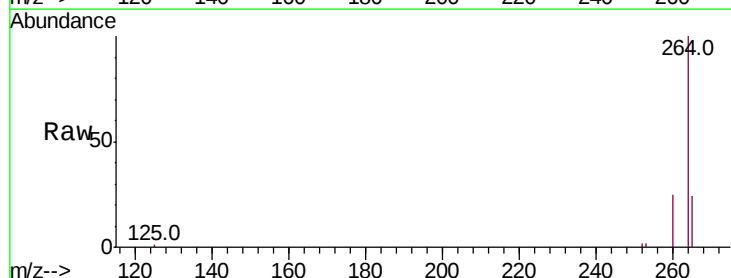
Instrument :
 BNA_E
 ClientSampleId :

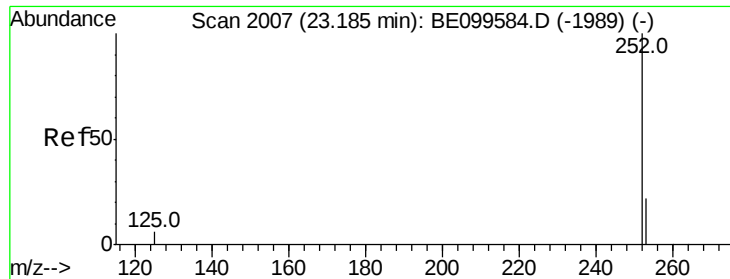
Tot Ion:276 Resp: 27330
 Ion Ratio Lower Upper
 276 100
 138 13.2 10.2 15.2
 277 24.6 19.8 29.8



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.97 min Scan# 2229
 Delta R.T. 0.00 min
 Lab File: BE099598.D
 Acq: 10 May 2019 14:41

Tgt Ion:264 Resp: 21663
 Ion Ratio Lower Upper
 264 100
 260 25.0 20.3 30.5
 265 24.3 20.9 31.3





#35

Benzo(b)fluoranthene

Concen: 0.367 ng

RT: 23.18 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :

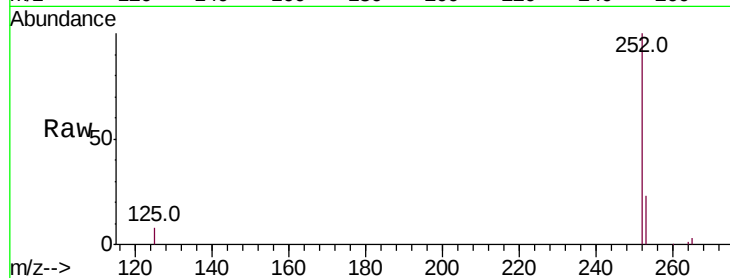
Tot Ion:252 Resp: 21992

Ion Ratio Lower Upper

252 100

253 23.4 18.6 28.0

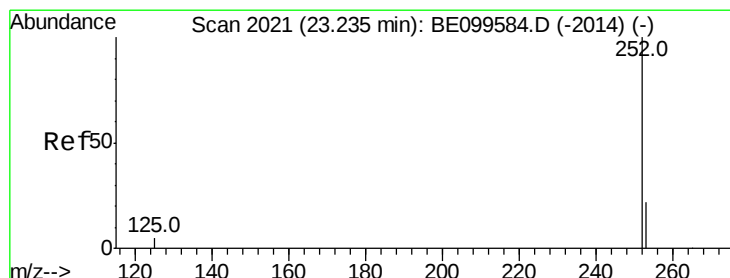
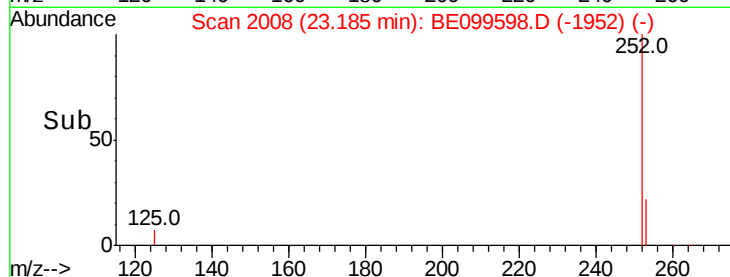
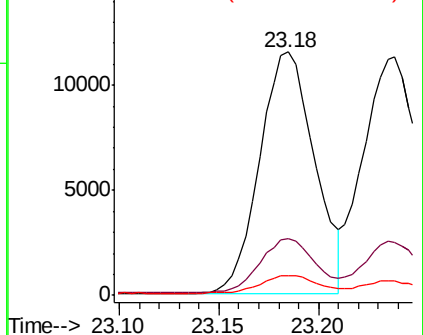
125 8.2 6.0 9.0



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



#36

Benzo(k)fluoranthene

Concen: 0.392 ng

RT: 23.24 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BE099598.D

Acq: 10 May 2019 14:41

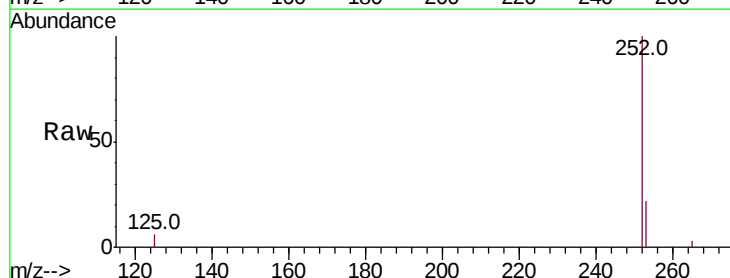
Tgt Ion:252 Resp: 23306

Ion Ratio Lower Upper

252 100

253 22.4 18.7 28.1

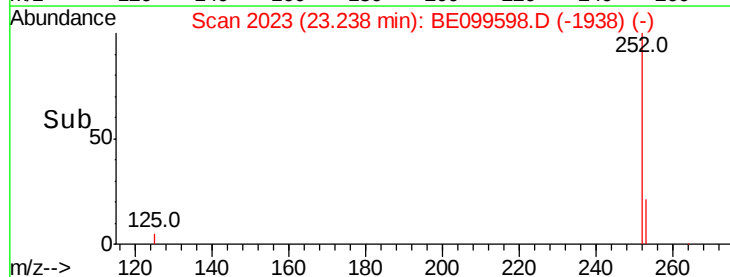
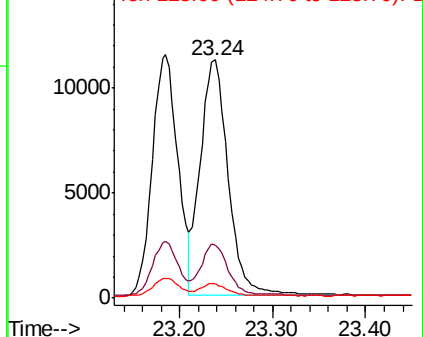
125 6.1 5.1 7.7

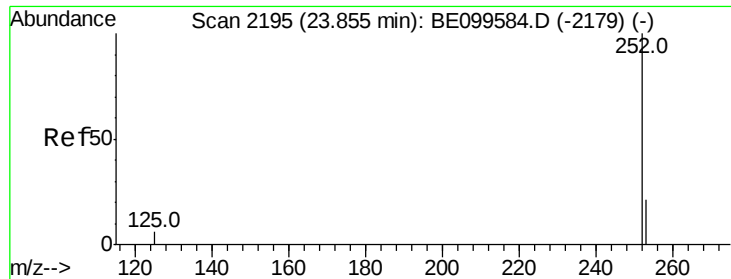


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

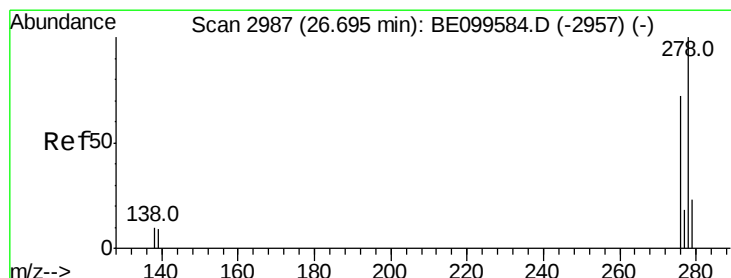
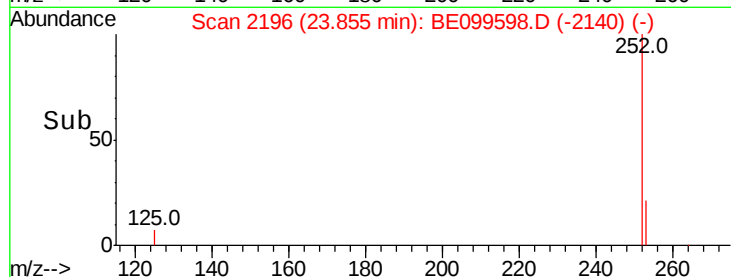
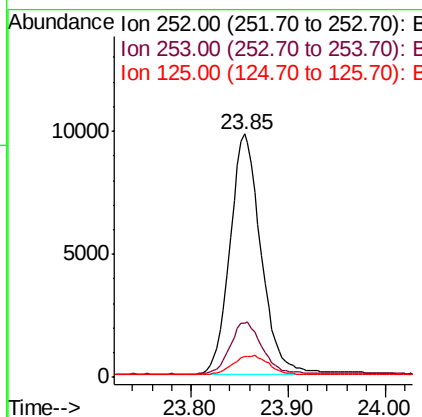
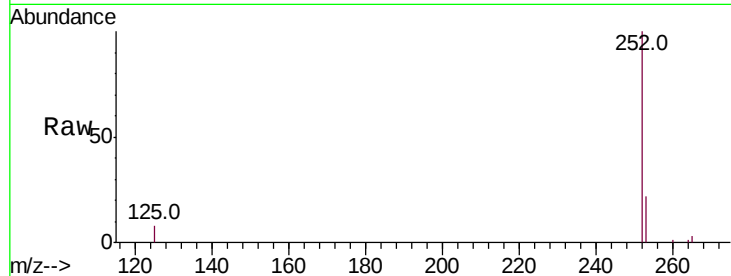




#37
Benzo(a)pyrene
Concen: 0.379 ng
RT: 23.85 min Scan# 2196
Delta R.T. 0.00 min
Lab File: BE099598.D
Acq: 10 May 2019 14:41

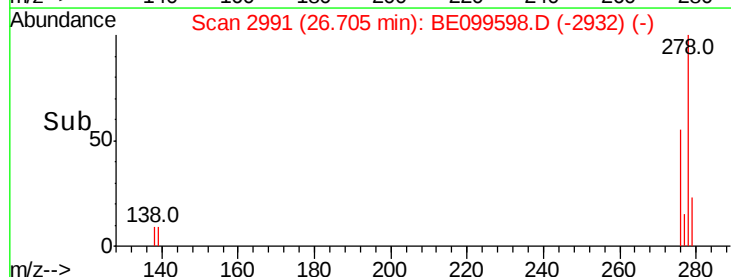
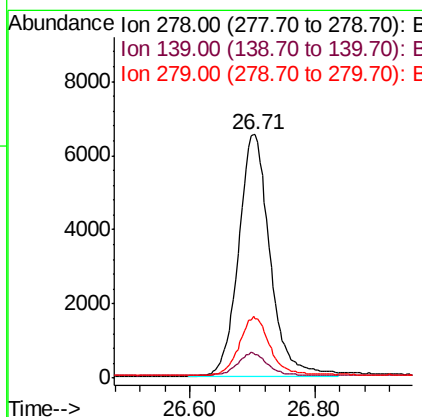
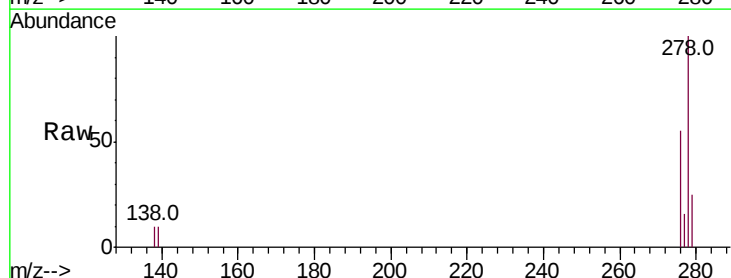
Instrument :
BNA_E
ClientSampleId :

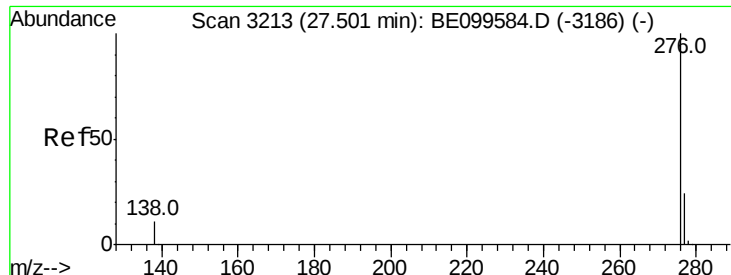
Tot Ion:252 Resp: 21955
Ion Ratio Lower Upper
252 100
253 22.3 18.6 27.8
125 8.5 6.4 9.6



#38
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 26.71 min Scan# 2991
Delta R.T. 0.01 min
Lab File: BE099598.D
Acq: 10 May 2019 14:41

Tgt Ion:278 Resp: 22767
Ion Ratio Lower Upper
278 100
139 9.8 8.3 12.5
279 24.5 19.4 29.2





#39

Benzo(a,h,i)perylene

Concen: 0.376 ng

RT: 27.50 min Scan# 3215

Delta R.T. 0.00 min

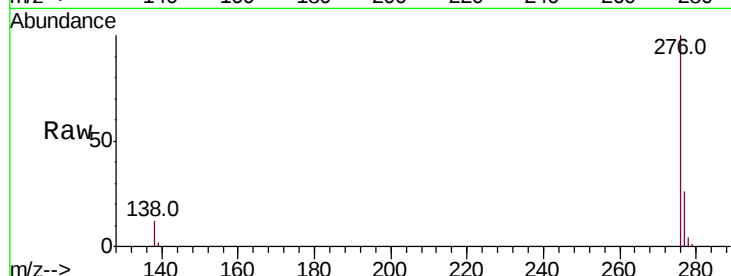
Lab File: BE099598.D

Acq: 10 May 2019 14:41

Instrument :

BNA_E

ClientSampleId :



Tot Ion:276 Resp: 23039

Ion Ratio Lower Upper

276 100

277 25.6 19.8 29.6

138 11.8 9.4 14.2

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

