

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099525.D
 Acq On : 3 May 2019 10:54
 Operator : JU/SJ
 Sample : K2589-09
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B019-042419

Quant Time: May 03 13:25:21 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	2269	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	8374	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6378	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	20375	0.40	ng	0.00
27) Chrysene-d12	21.37	240	24748	0.40	ng	0.00
34) Perylene-d12	23.87	264	28678	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	1668	0.27	ng	0.00
5) Phenol-d6	6.97	99	2464	0.30	ng	0.00
8) Nitrobenzene-d5	8.96	82	2005	0.26	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	3916	0.26	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1238	0.31	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	5789	0.24	ng	0.00
25) Fluoranthene-d10	19.22	212	63891	0.23	ng	0.00
29) Terphenyl-d14	19.82	244	12608	0.28	ng	0.00

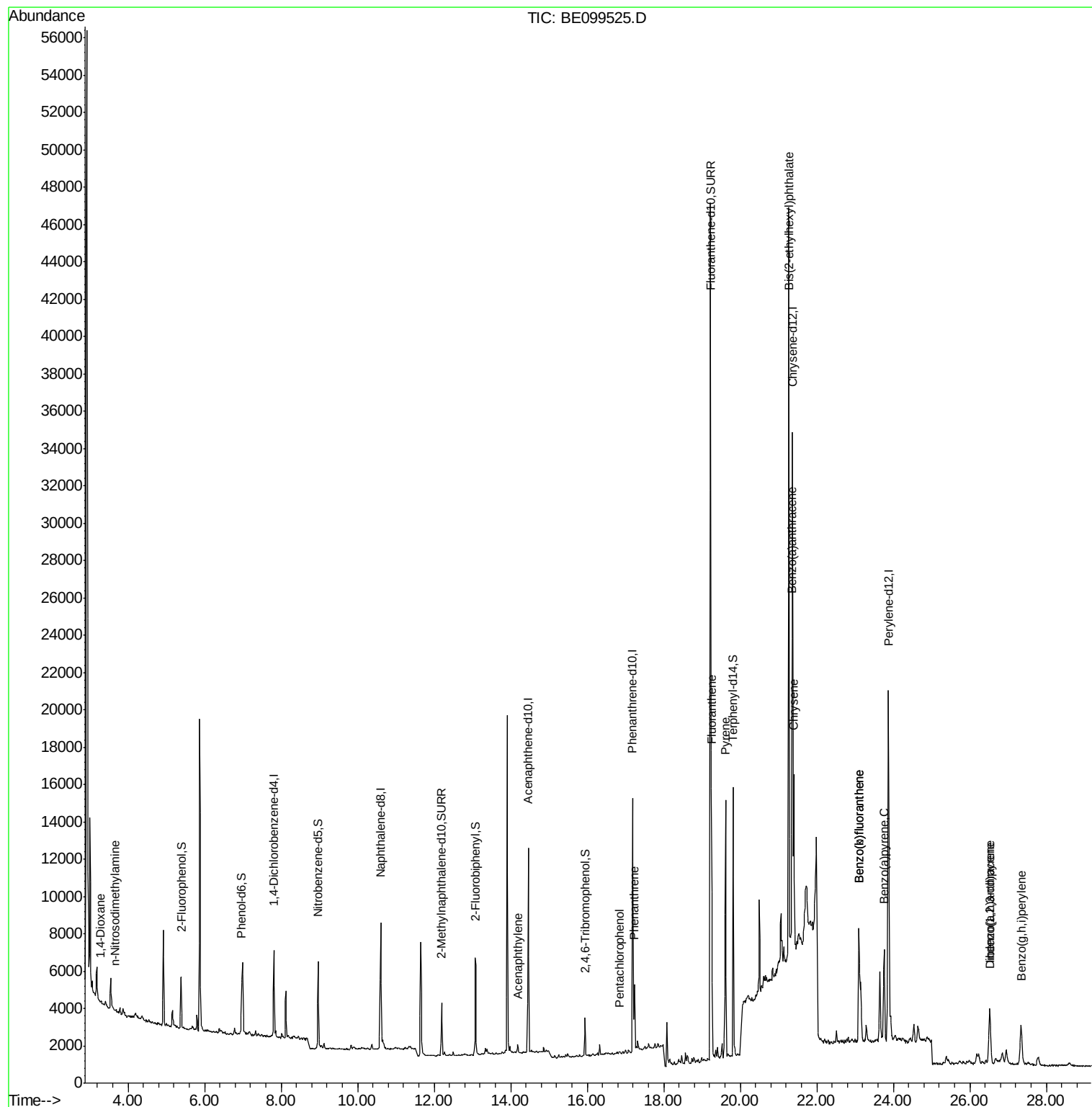
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.28	88	102	0.033	ng	# 82
3) n-Nitrosodimethylamine	3.65	42	48	0.026	ng	# 1
16) Acenaphthylene	14.18	152	719	0.023	ng	95
22) Pentachlorophenol	16.84	266	43	0.222	ng	# 50
23) Phenanthrene	17.23	178	4456	0.085	ng	98
26) Fluoranthene	19.25	202	12613	0.160	ng	# 96
28) Pyrene	19.62	202	13003	0.202	ng	# 95
30) Benzo(a)anthracene	21.35	228	6834	0.087	ng	# 83
31) Chrysene	21.40	228	9169	0.119	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.27	149	46878	0.350	ng	100
33) Indeno(1,2,3-cd)pyrene	26.52	276	5377	0.059	ng	# 96
35) Benzo(b)fluoranthene	23.10	252	10982	0.133	ng	# 71
36) Benzo(k)fluoranthene	23.10	252	10982	0.138	ng	# 72
37) Benzo(a)pyrene	23.76	252	7077	0.091	ng	# 68
38) Dibenzo(a,h)anthracene	26.53	278	1738	0.022	ng	# 30
39) Benzo(g,h,i)perylene	27.34	276	5725	0.071	ng	# 87

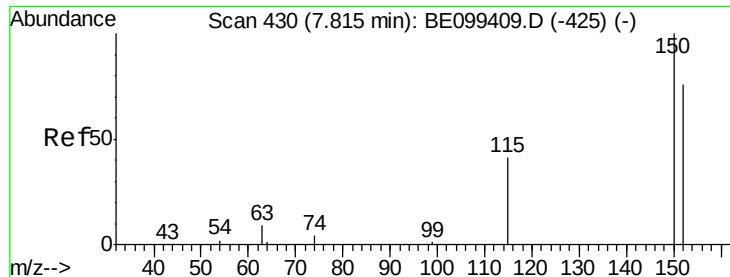
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

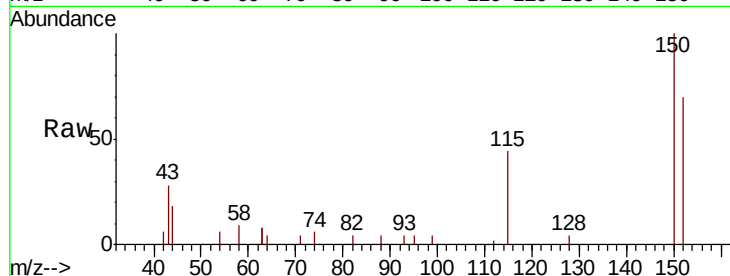
Tot Ion:152 Resp: 2269

Ion Ratio Lower Upper

152 100

150 143.2 104.8 157.2

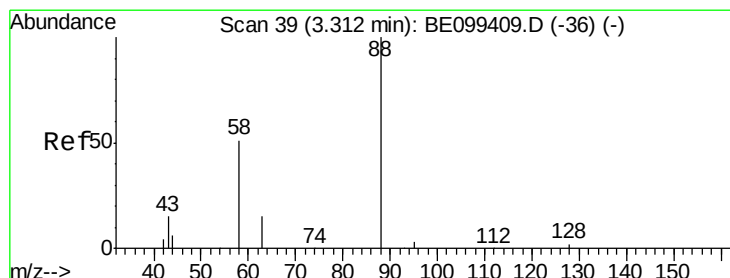
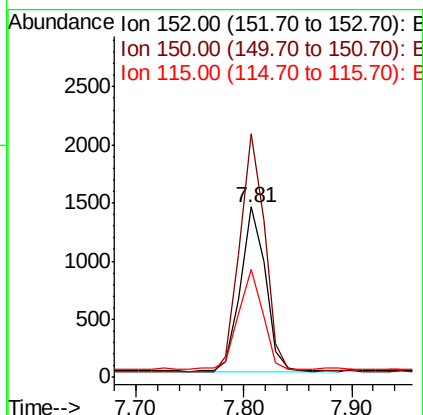
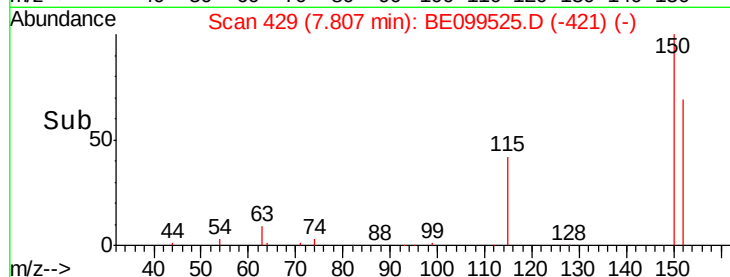
115 63.7 46.6 69.8



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: 0.033 ng

RT: 3.28 min Scan# 36

Delta R.T. -0.03 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

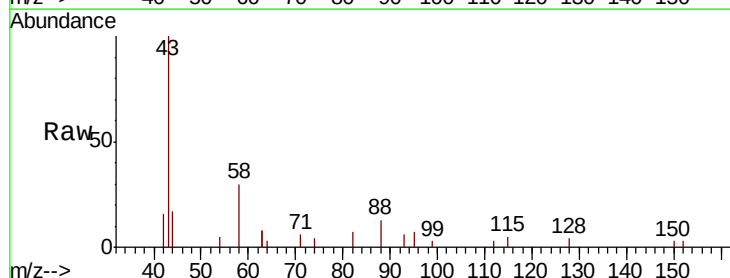
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

58 67.6 51.0 76.6

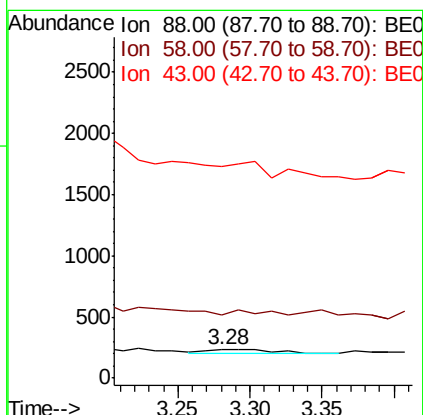
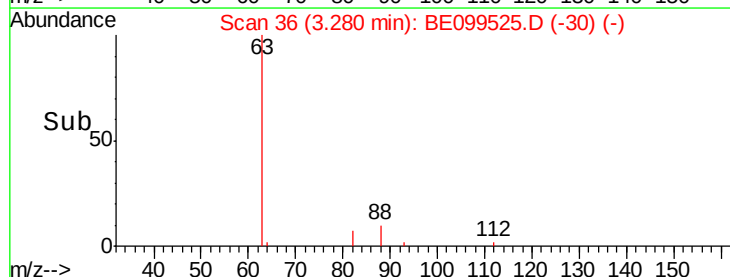
43 0.0 20.6 30.8#

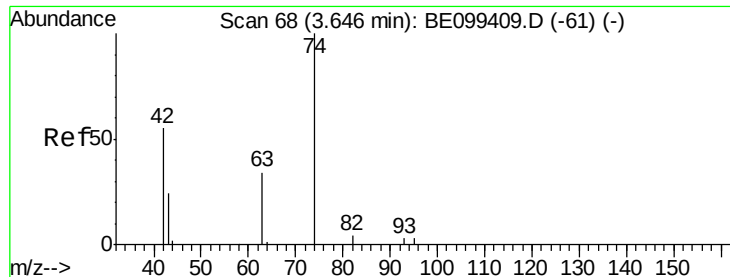


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.026 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

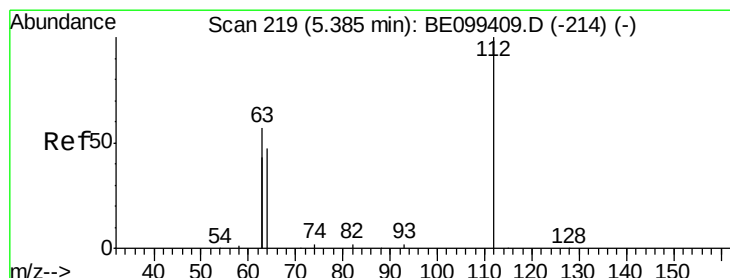
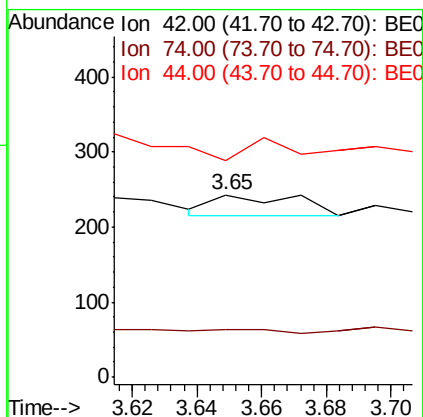
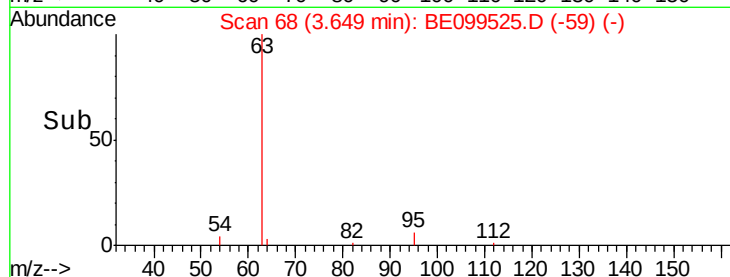
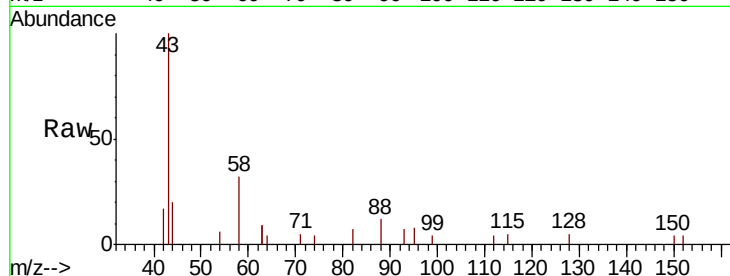
Tot Ion: 42 Resp: 48

Ion Ratio Lower Upper

42 100

74 0.0 141.6 212.4#

44 81.3 0.0 0.0#



#4

2-Fluorophenol

Concen: 0.266 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

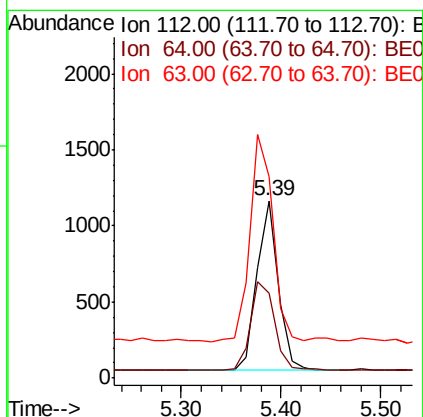
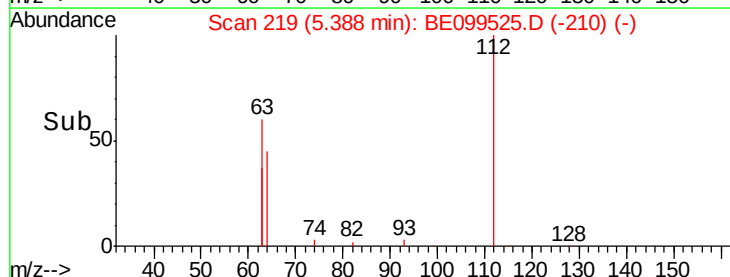
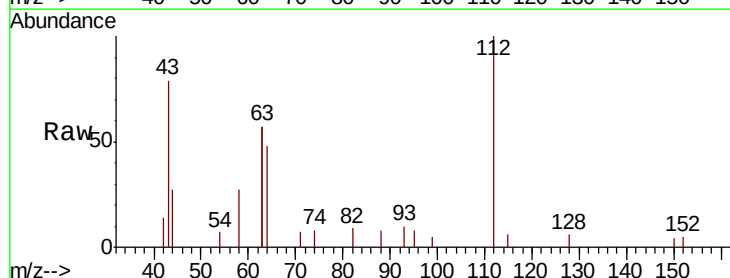
Tgt Ion: 112 Resp: 1668

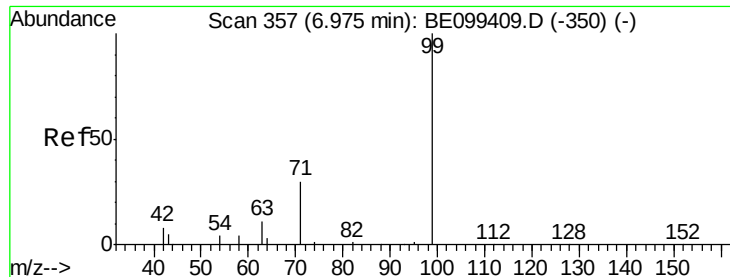
Ion Ratio Lower Upper

112 100

64 58.3 47.4 71.0

63 130.0 104.3 156.5





#5

Phenol-d6

Concen: 0.295 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

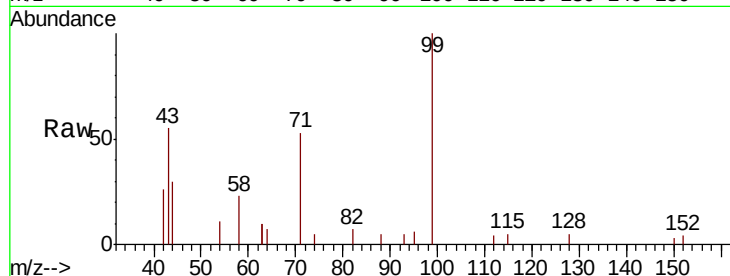
Tot Ion: 99 Resp: 2464

Ion Ratio Lower Upper

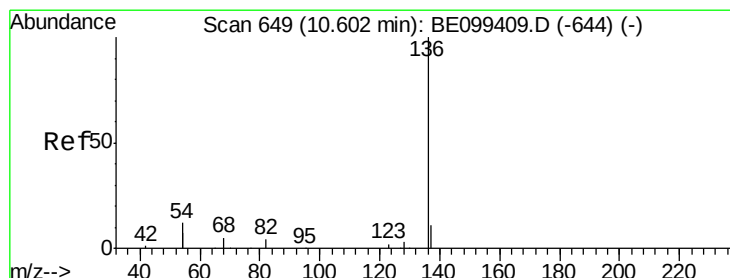
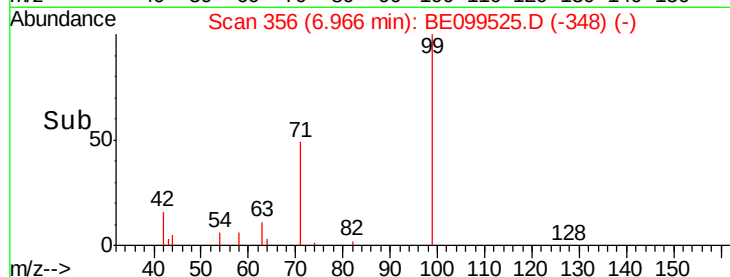
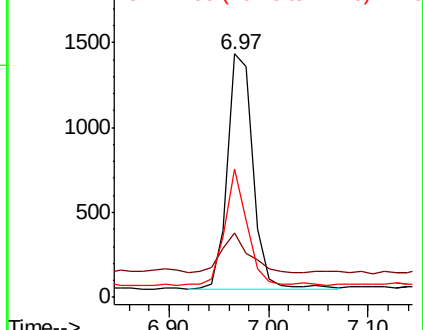
99 100

42 18.3 14.9 22.3

71 42.4 33.0 49.6



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Tgt Ion: 136 Resp: 8374

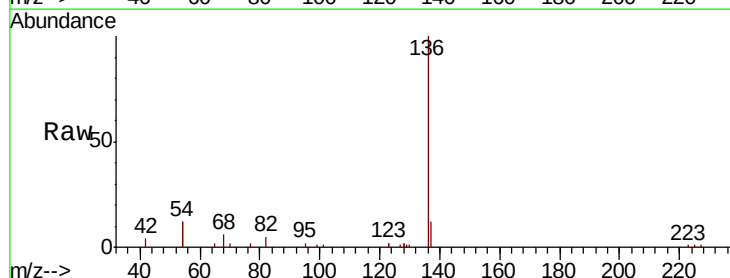
Ion Ratio Lower Upper

136 100

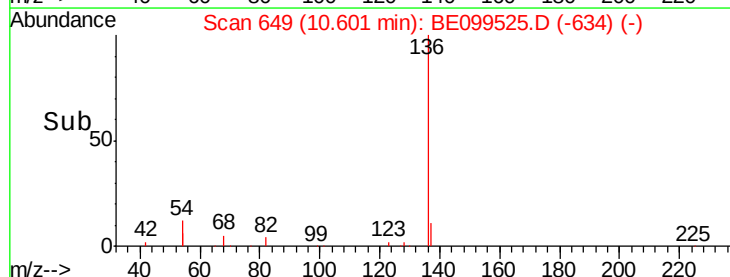
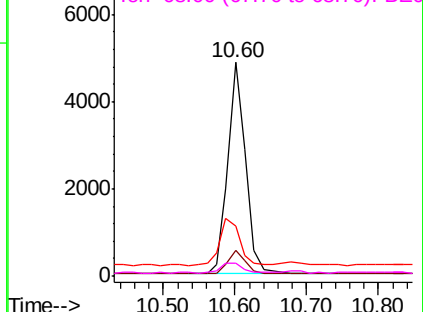
137 11.8 9.8 14.8

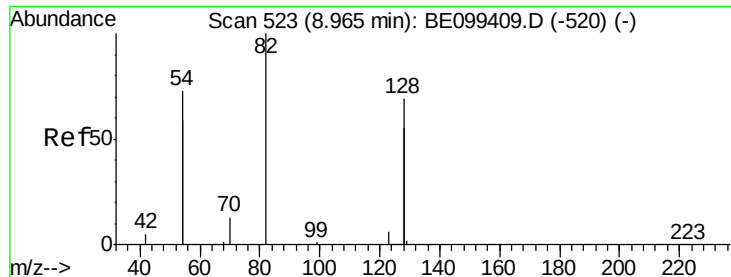
54 23.3 18.5 27.7

68 5.9 4.7 7.1



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.255 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

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ClientSampleId :

PST-001-B019-042419

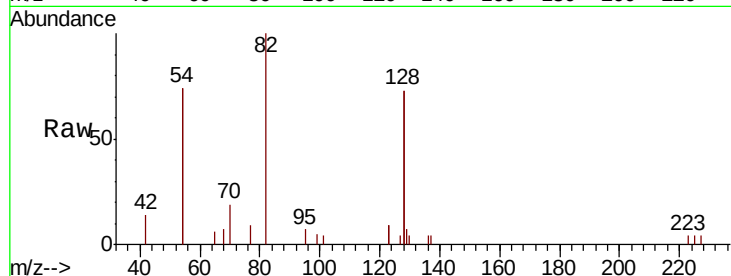
Tot Ion: 82 Resp: 2005

Ion Ratio Lower Upper

82 100

128 145.9 107.0 160.4

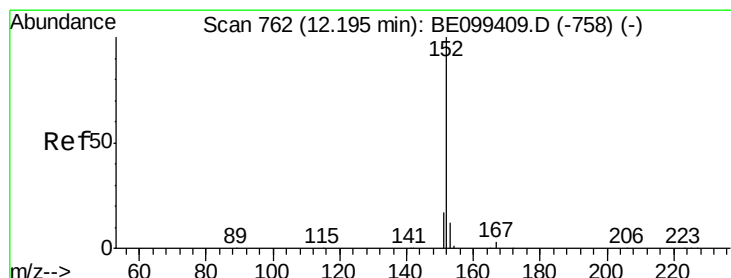
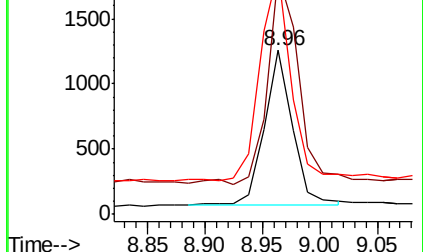
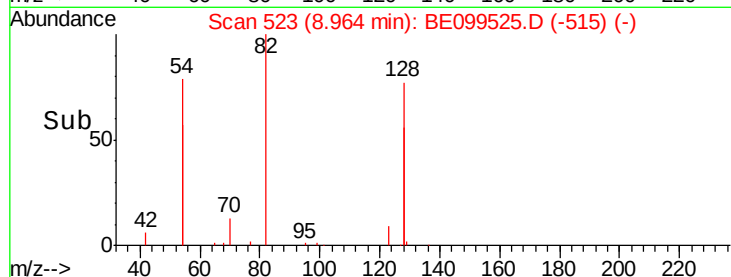
54 148.5 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.260 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099525.D

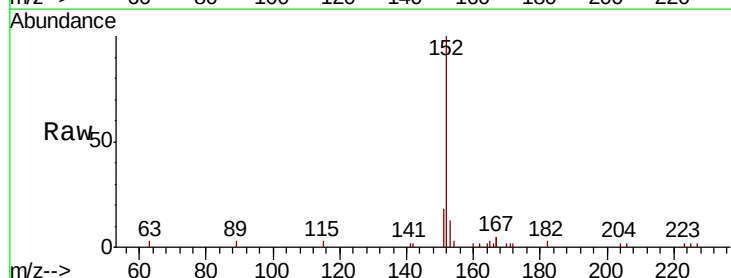
Acq: 3 May 2019 10:54

Tgt Ion:152 Resp: 3916

Ion Ratio Lower Upper

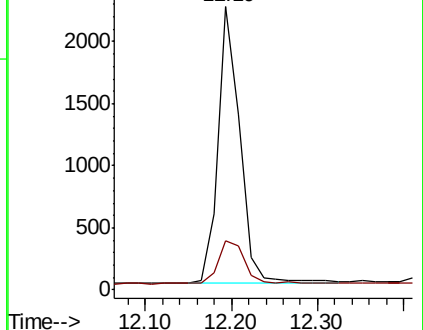
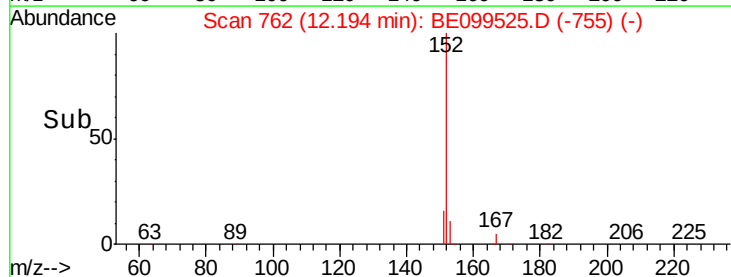
152 100

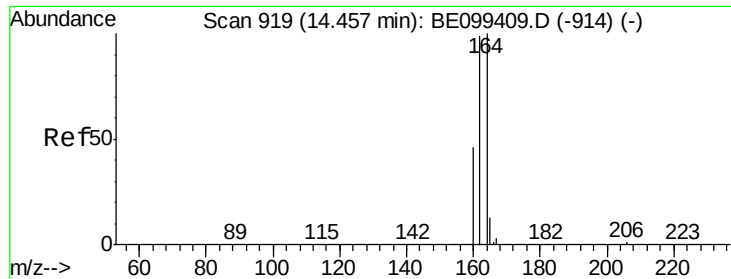
151 18.2 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

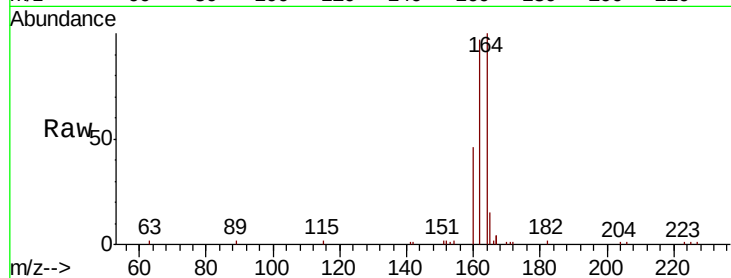




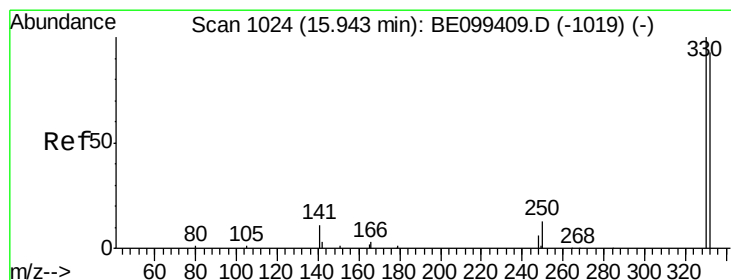
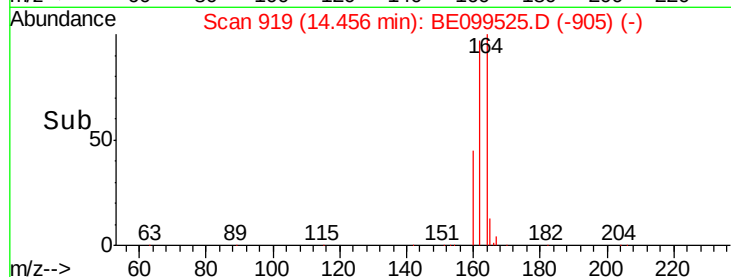
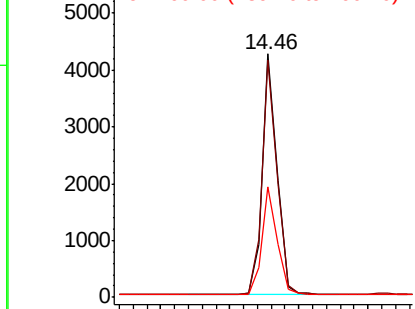
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

Instrument :
BNA_E
ClientSampleId :
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Tot Ion:164 Resp: 6378
Ion Ratio Lower Upper
164 100
162 97.4 79.0 118.4
160 45.5 37.0 55.4

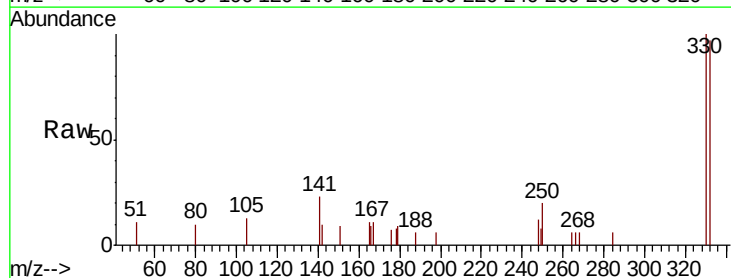


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

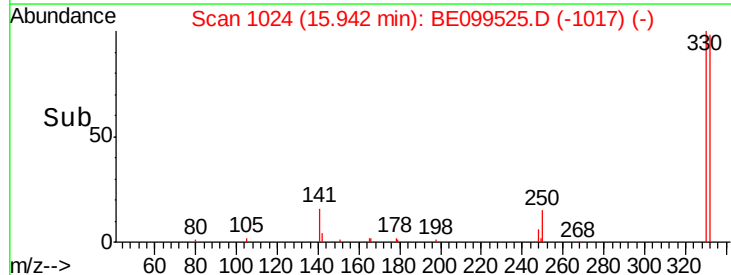
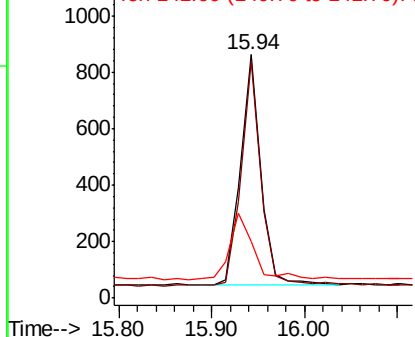


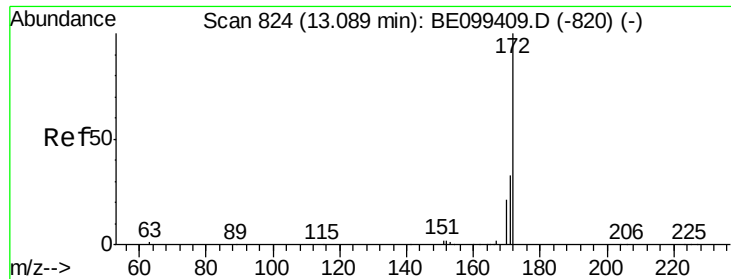
#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.94 min Scan# 1024
Delta R.T. -0.00 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

Tgt Ion:330 Resp: 1238
Ion Ratio Lower Upper
330 100
332 93.8 71.5 107.3
141 33.0 24.0 36.0



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

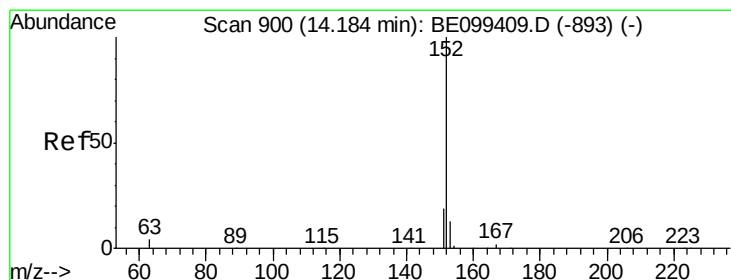
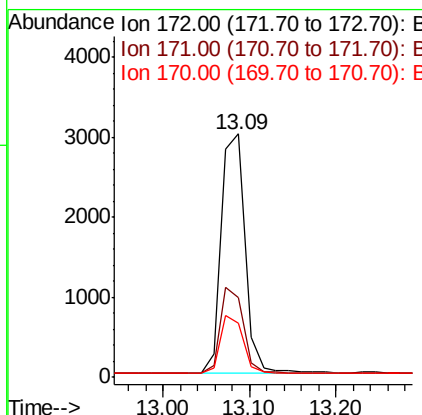
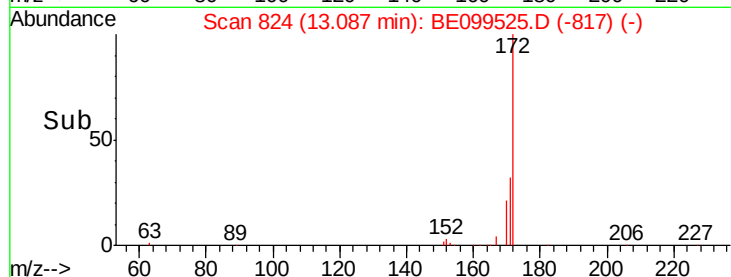
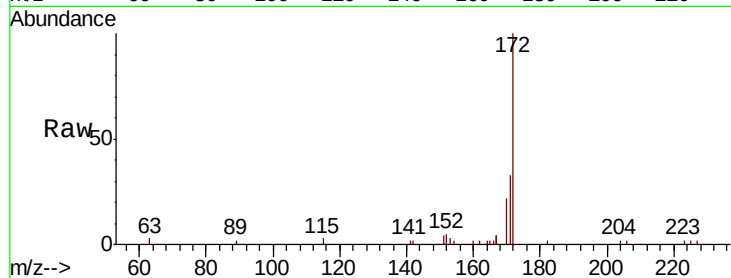




#15
2-Fluorobiphenyl
Concen: 0.238 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

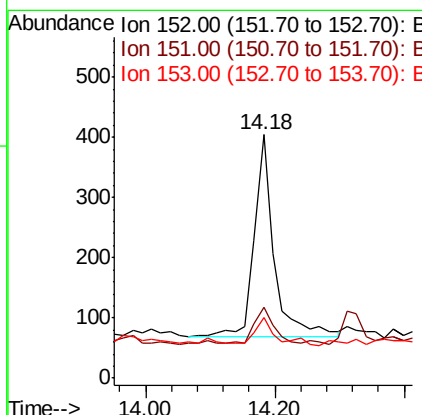
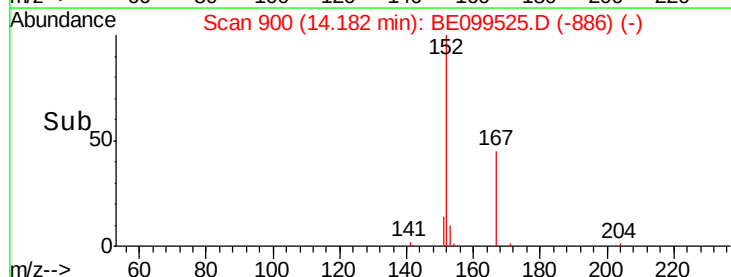
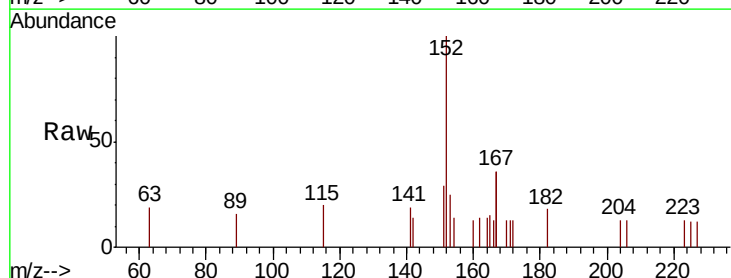
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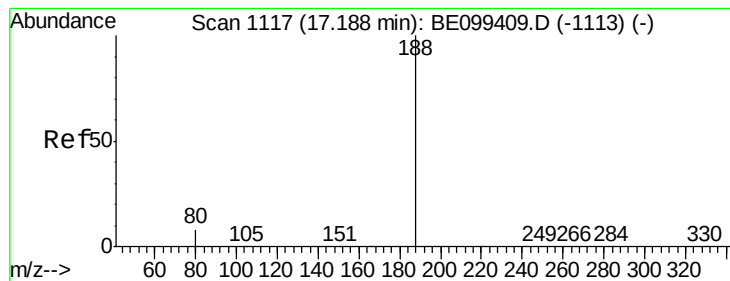
Tot Ion:172 Resp: 5789
Ion Ratio Lower Upper
172 100
171 32.7 26.6 39.8
170 22.3 17.0 25.6



#16
Acenaphthylene
Concen: 0.023 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

Tgt Ion:152 Resp: 719
Ion Ratio Lower Upper
152 100
151 16.6 15.4 23.2
153 13.8 9.8 14.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

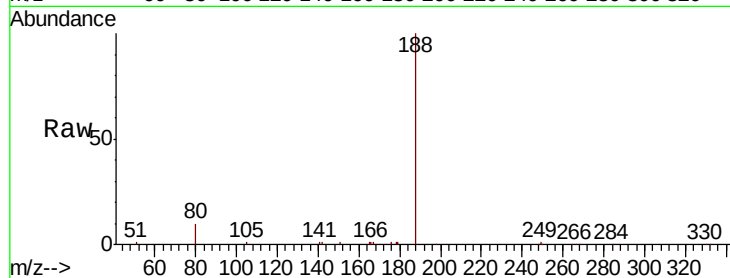
Tot Ion:188 Resp: 20375

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

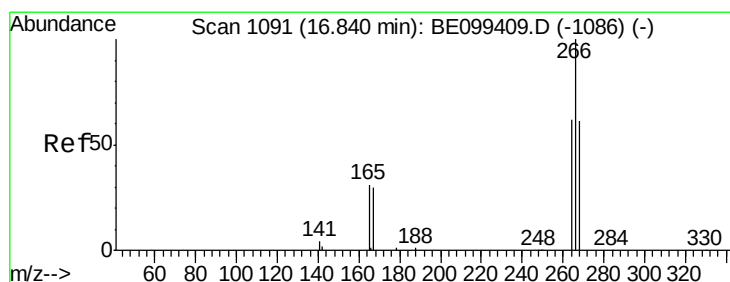
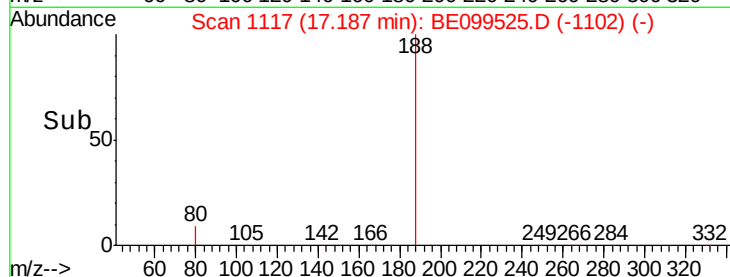
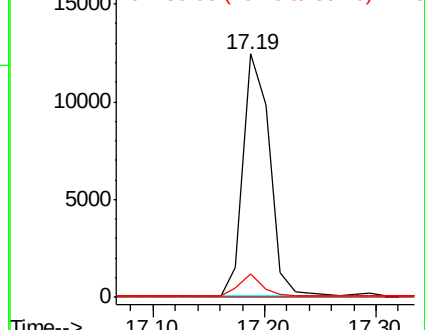
80 9.6 6.7 10.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.222 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

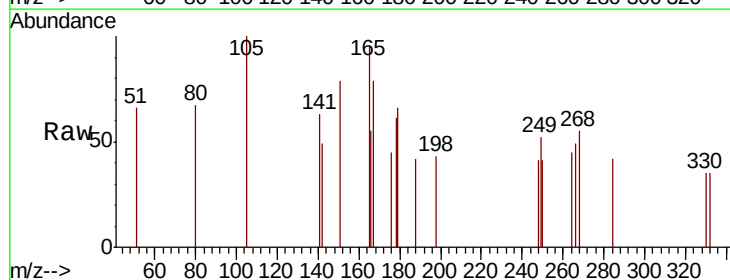
Tgt Ion:266 Resp: 43

Ion Ratio Lower Upper

266 100

264 92.1 50.8 76.2#

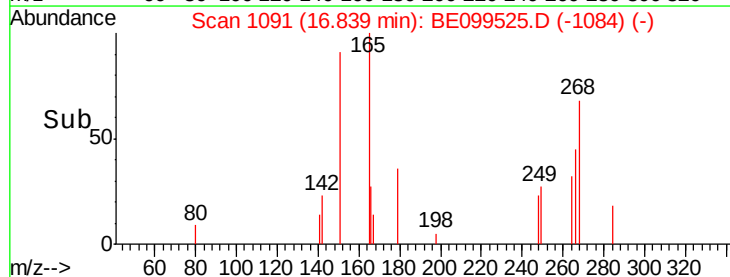
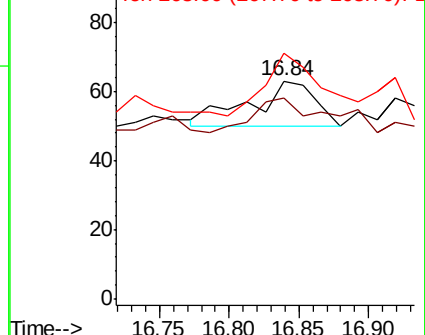
268 112.7 50.5 75.7#

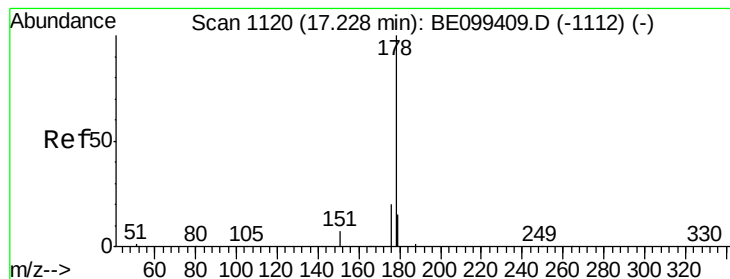


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.085 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

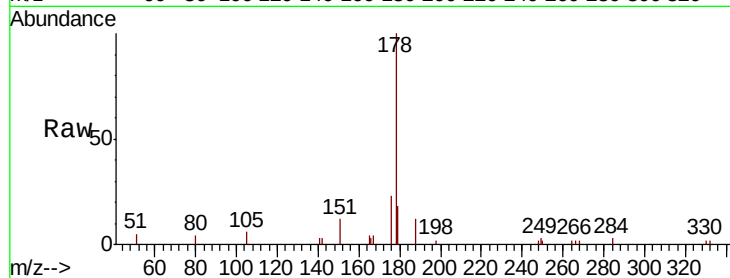
Tot Ion:178 Resp: 4456

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

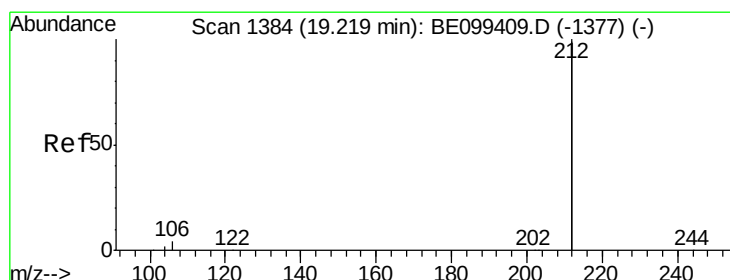
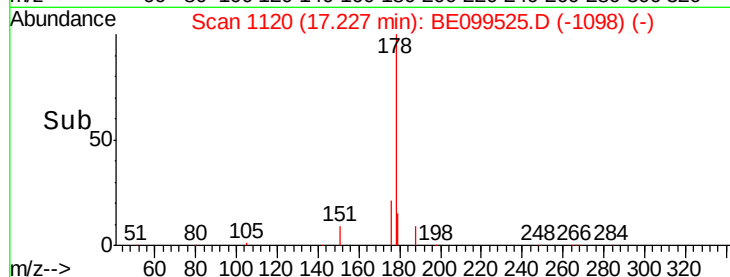
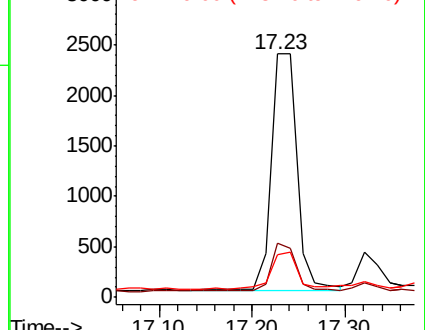
179 16.9 12.0 18.0



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: 0.233 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

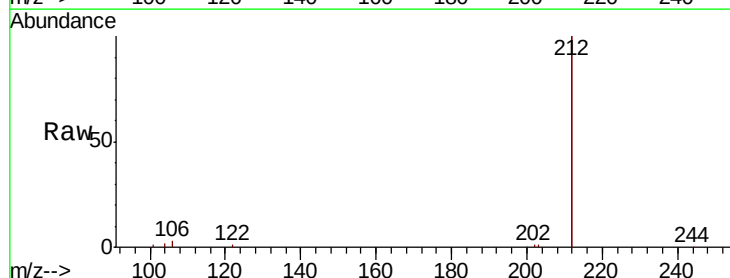
Tgt Ion:212 Resp: 63891

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

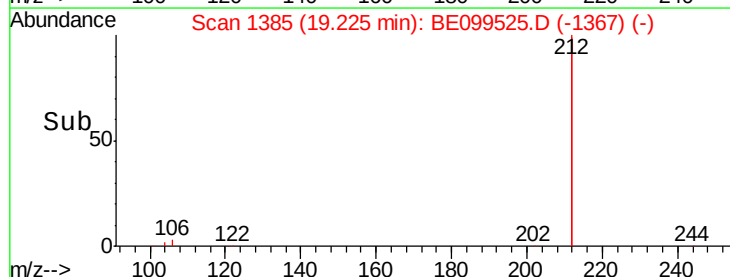
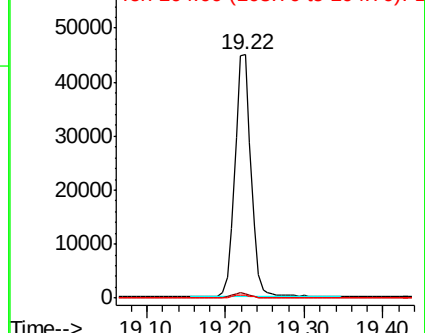
104 1.2 0.9 1.3

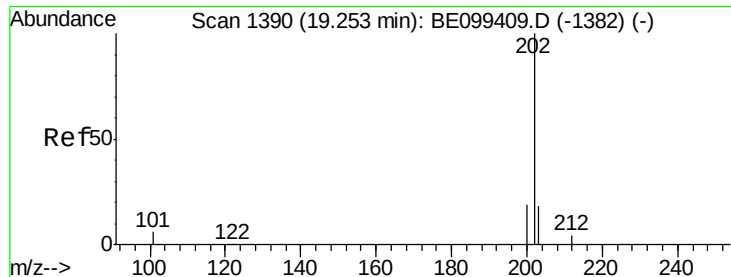


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

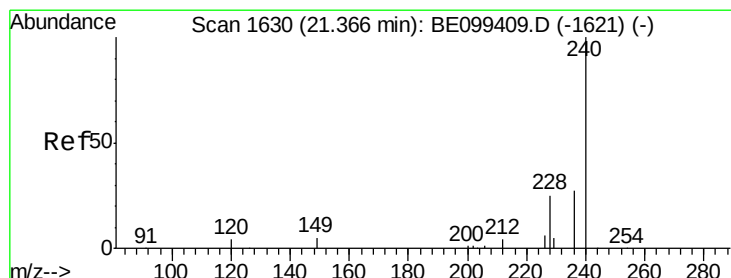
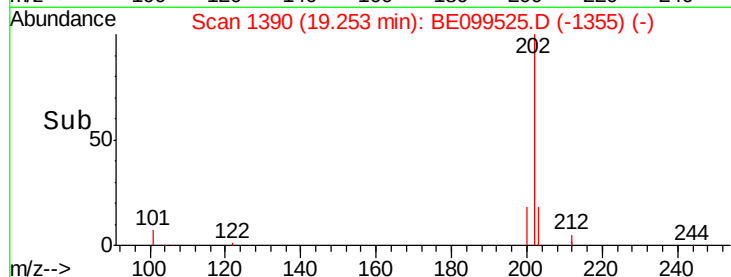
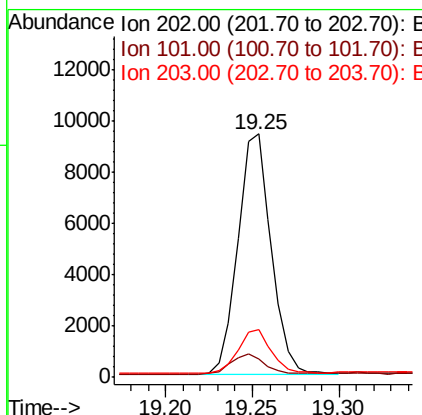
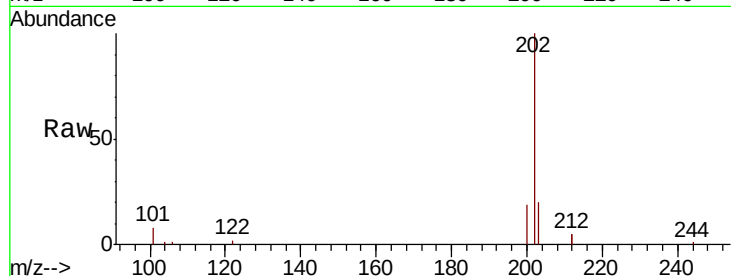




#26
Fluoranthene
Concen: 0.160 ng
RT: 19.25 min Scan# 1390
Delta R.T. 0.00 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

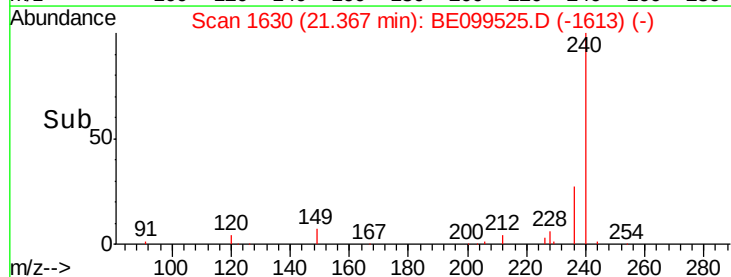
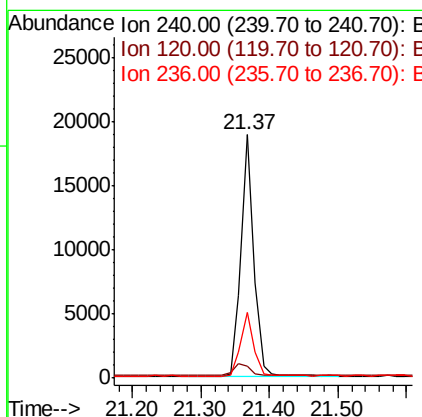
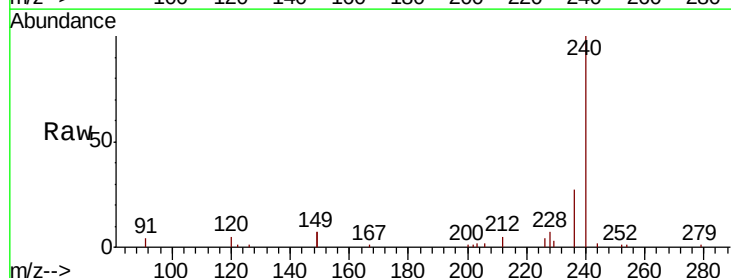
Instrument :
BNA_E
ClientSampleId :
PST-001-B019-042419

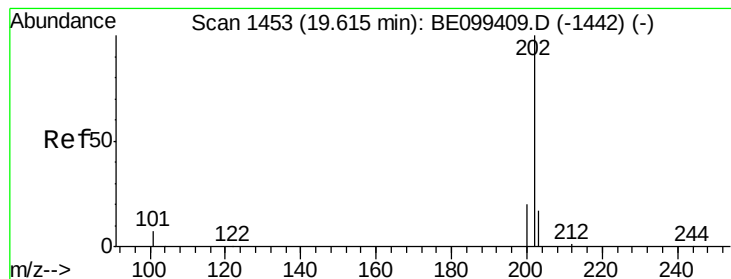
Tot Ion:202 Resp: 12613
Ion Ratio Lower Upper
202 100
101 9.8 5.4 8.0#
203 18.2 13.9 20.9



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

Tgt Ion:240 Resp: 24748
Ion Ratio Lower Upper
240 100
120 4.7 4.0 6.0
236 27.2 22.0 33.0





#28

Pvrene

Concen: 0.202 ng

RT: 19.62 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

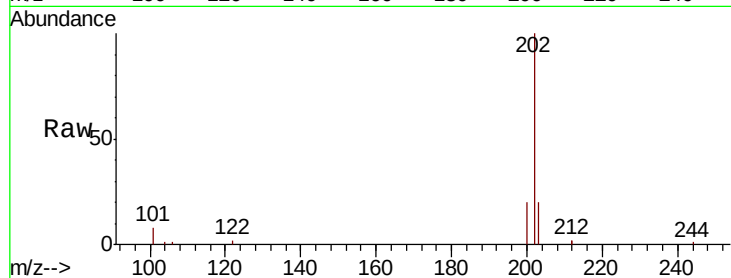
Tot Ion:202 Resp: 13003

Ion Ratio Lower Upper

202 100

200 20.0 15.7 23.5

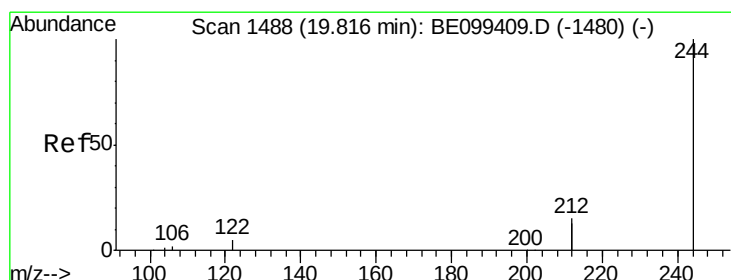
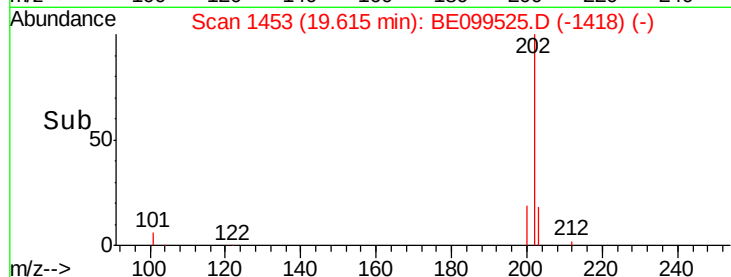
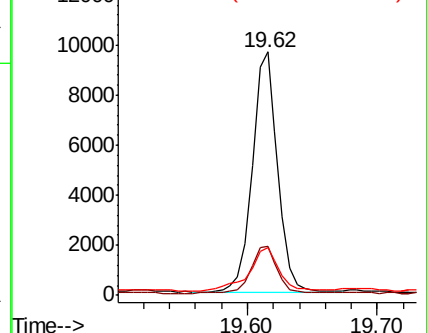
203 21.6 13.9 20.9#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.278 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

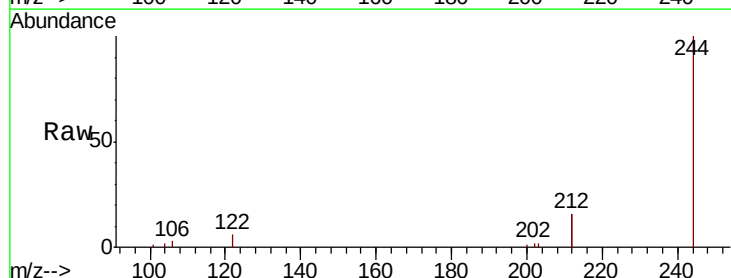
Tgt Ion:244 Resp: 12608

Ion Ratio Lower Upper

244 100

212 31.3 23.2 34.8

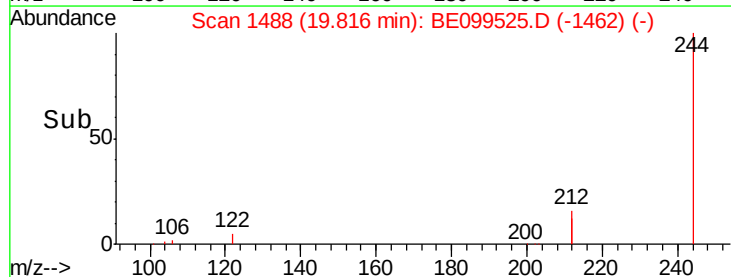
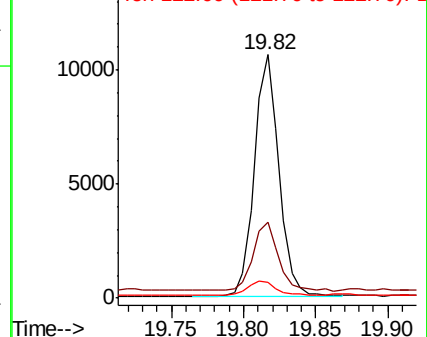
122 6.3 4.2 6.4

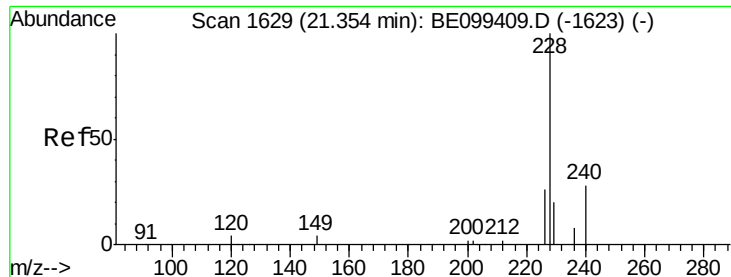


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.087 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

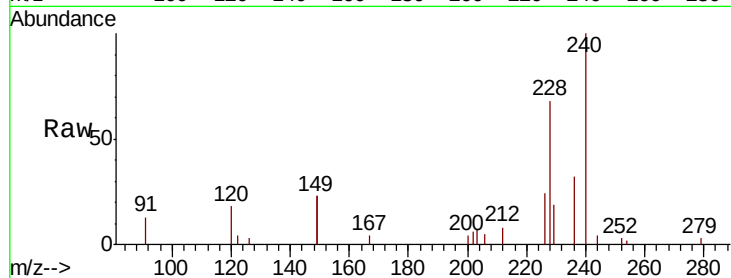
Tot Ion:228 Resp: 6834

Ion Ratio Lower Upper

228 100

226 35.2 21.0 31.6#

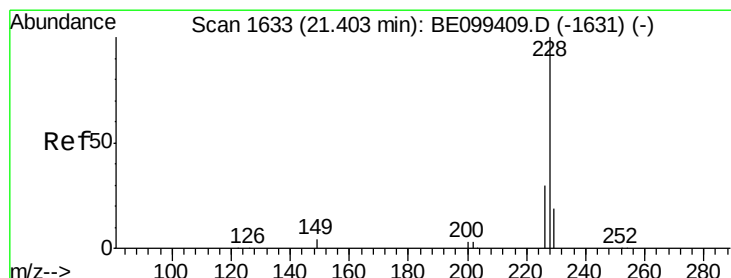
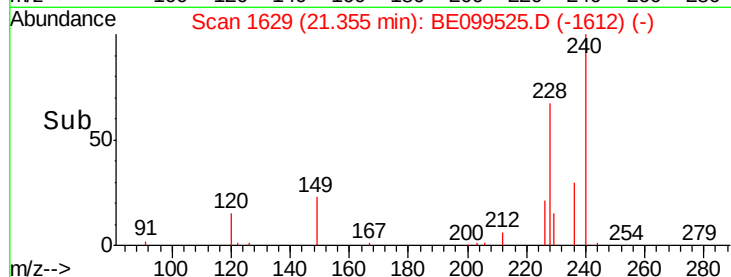
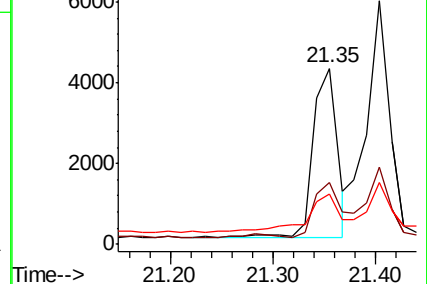
229 28.5 16.6 25.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.119 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

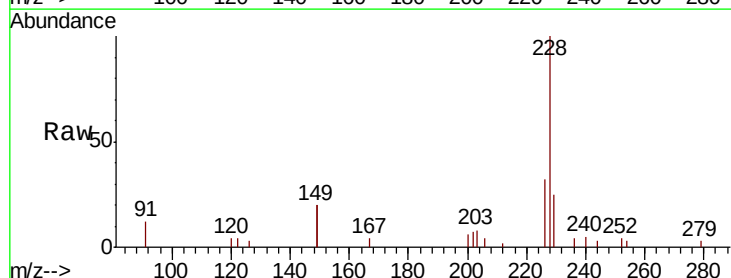
Tgt Ion:228 Resp: 9169

Ion Ratio Lower Upper

228 100

226 31.9 24.0 36.0

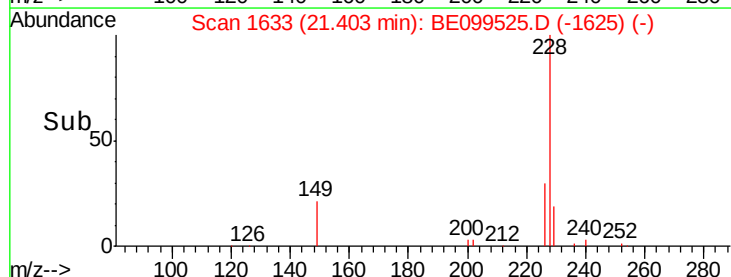
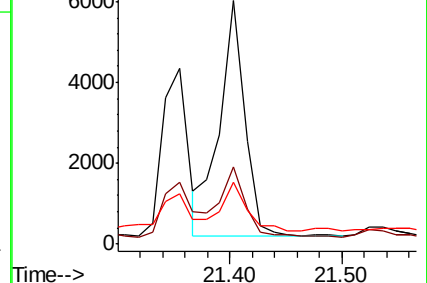
229 25.3 15.8 23.8#

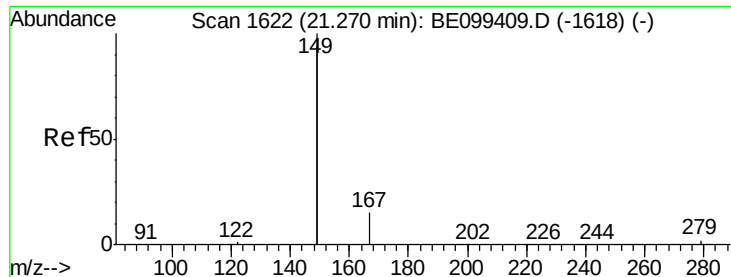


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.350 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

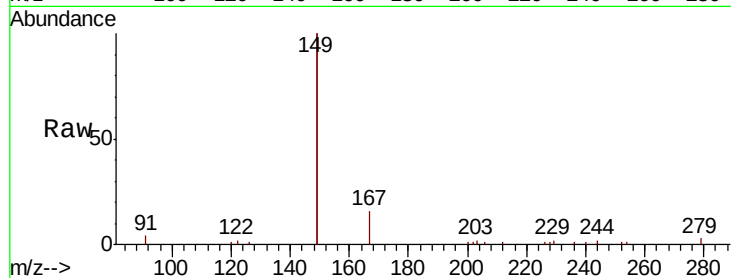
Tot Ion:149 Resp: 46878

Ion Ratio Lower Upper

149 100

167 7.3 5.8 8.6

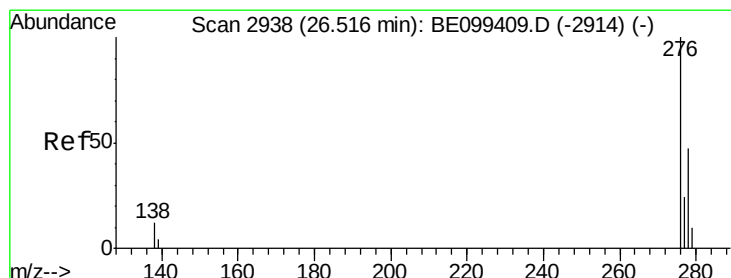
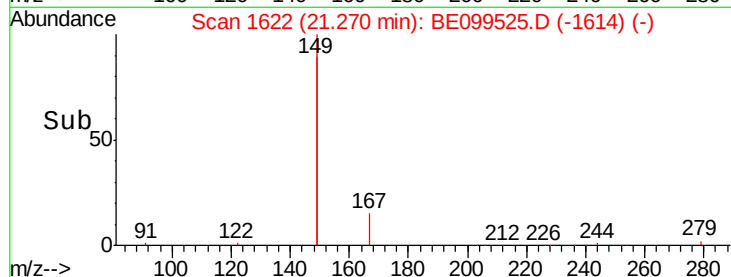
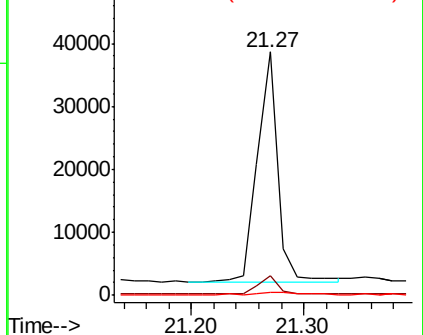
279 1.4 1.0 1.6



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: 0.059 ng

RT: 26.52 min Scan# 2938

Delta R.T. -0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

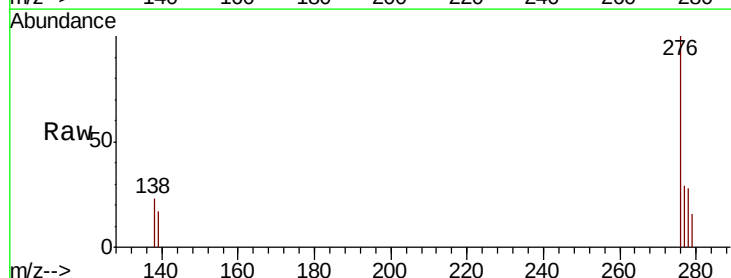
Tgt Ion:276 Resp: 5377

Ion Ratio Lower Upper

276 100

138 15.4 10.2 15.2#

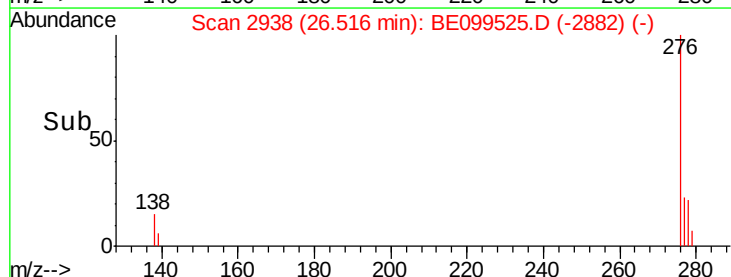
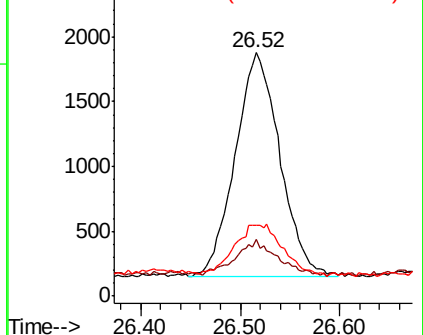
277 25.3 19.2 28.8

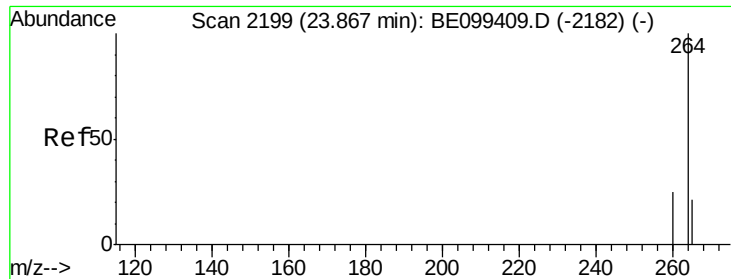


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

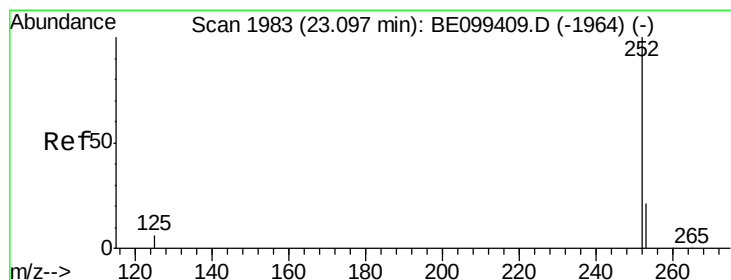
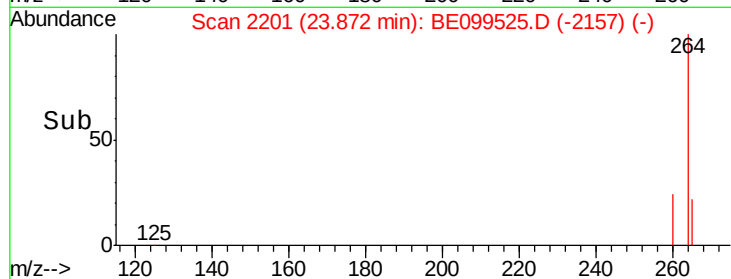
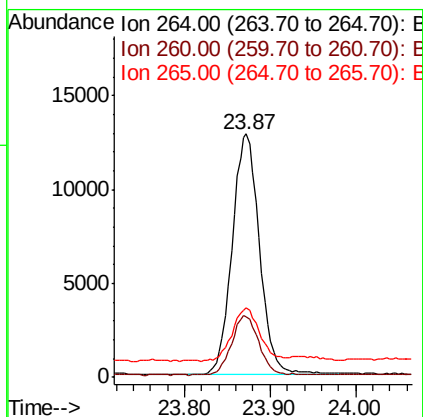
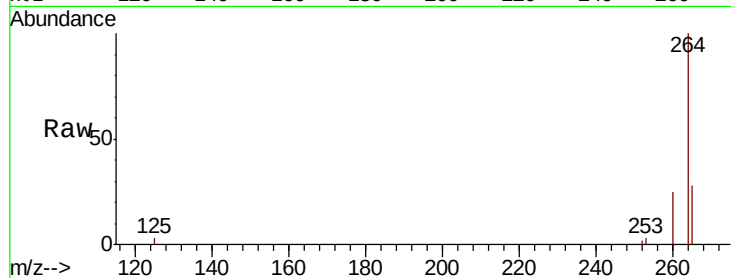




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.87 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

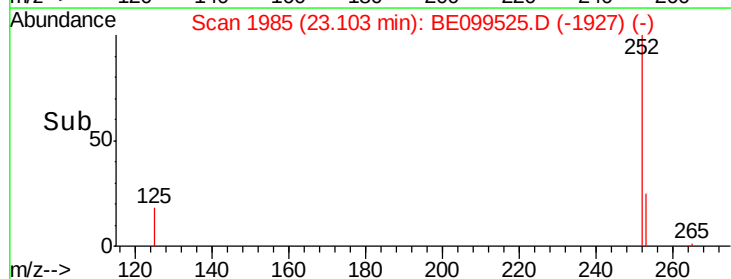
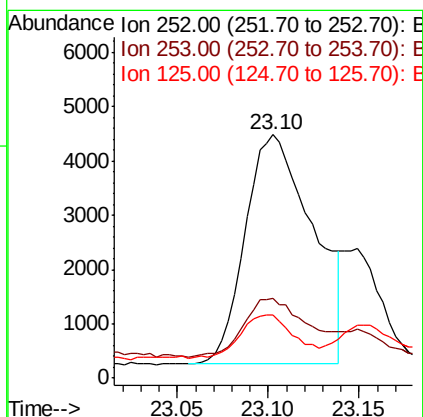
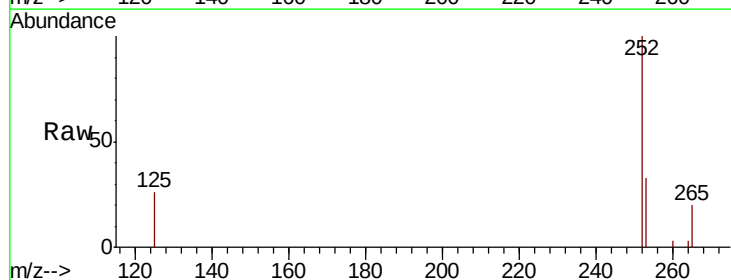
Instrument :
BNA_E
ClientSampleId :
PST-001-B019-042419

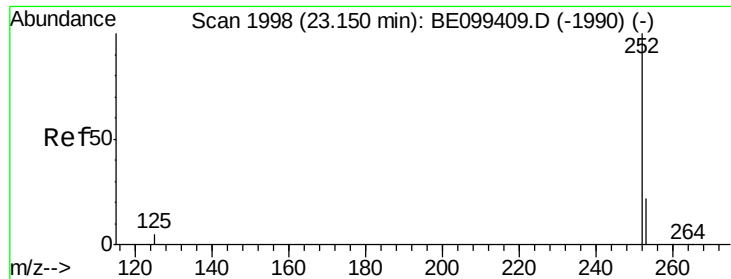
Tot Ion:264 Resp: 28678
Ion Ratio Lower Upper
264 100
260 25.1 20.2 30.2
265 28.4 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.133 ng
RT: 23.10 min Scan# 1985
Delta R.T. 0.01 min
Lab File: BE099525.D
Acq: 3 May 2019 10:54

Tgt Ion:252 Resp: 10982
Ion Ratio Lower Upper
252 100
253 32.6 18.1 27.1#
125 25.8 5.6 8.4#





#36

Benzo(k)fluoranthene

Concen: 0.138 ng

RT: 23.10 min Scan# 1985

Delta R.T. -0.05 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

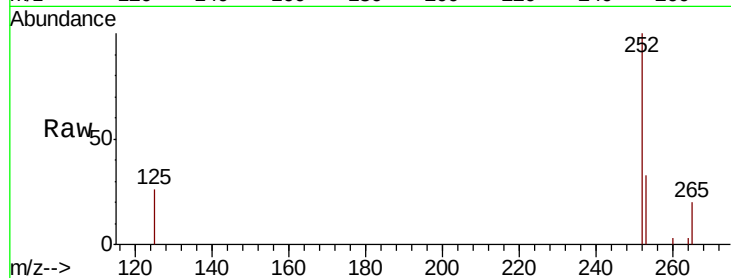
Tot Ion:252 Resp: 10982

Ion Ratio Lower Upper

252 100

253 32.6 18.4 27.6#

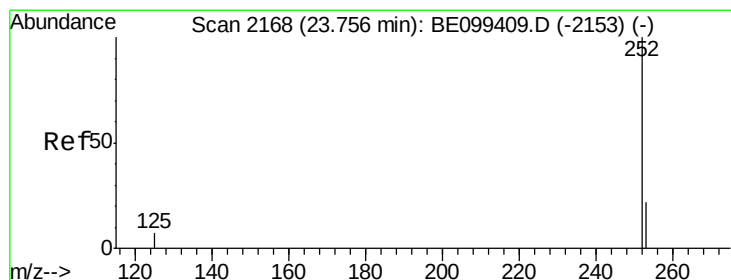
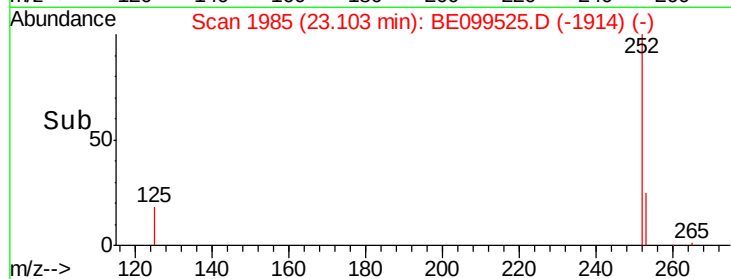
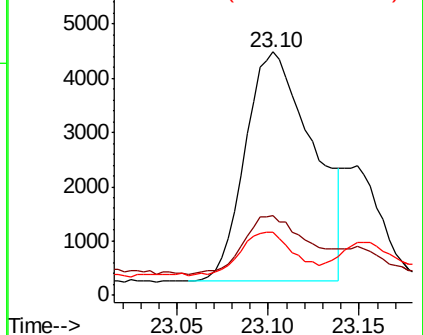
125 25.8 5.0 7.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

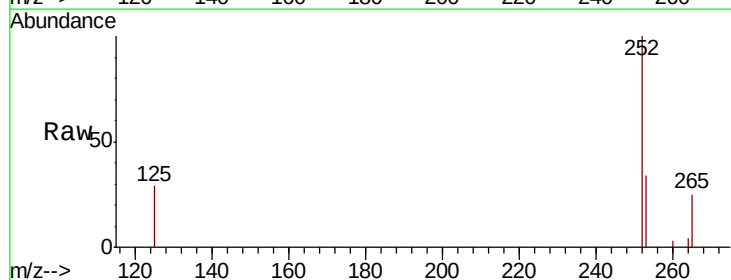
Tgt Ion:252 Resp: 7077

Ion Ratio Lower Upper

252 100

253 34.5 18.9 28.3#

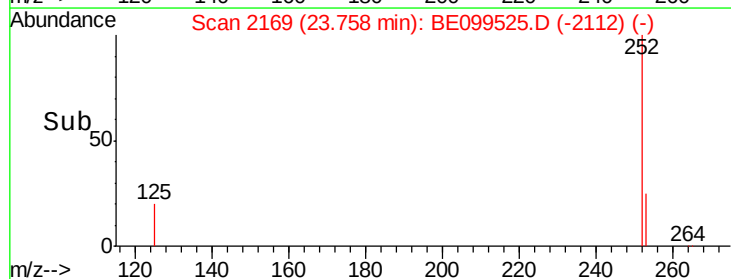
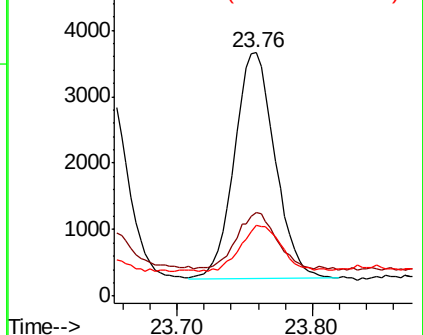
125 29.0 6.7 10.1#

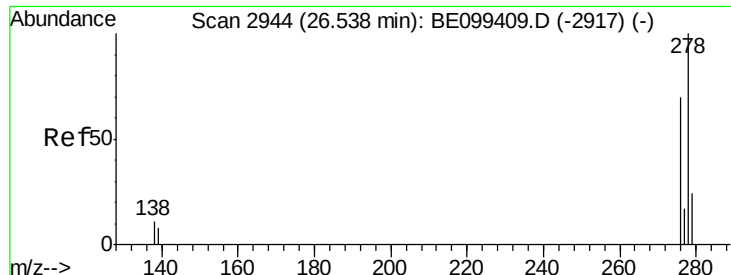


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.022 ng

RT: 26.53 min Scan# 2943

Delta R.T. -0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B019-042419

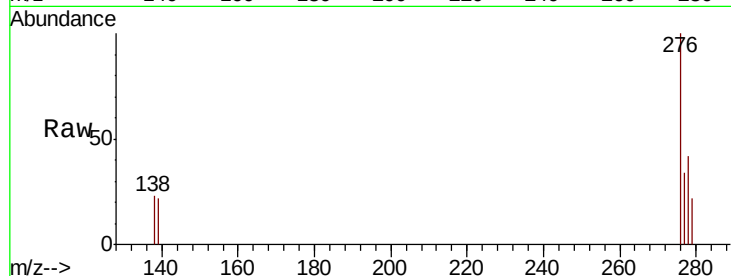
Tot Ion:278 Resp: 1738

Ion Ratio Lower Upper

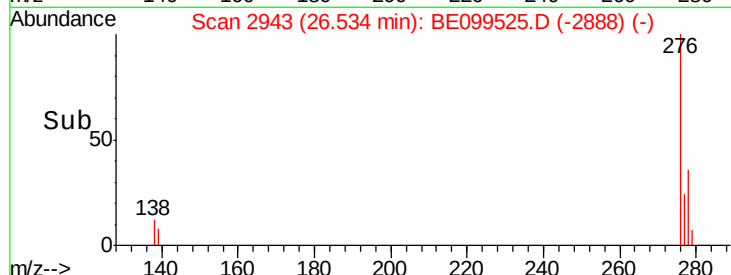
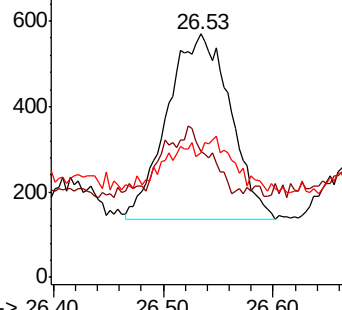
278 100

139 51.9 7.7 11.5#

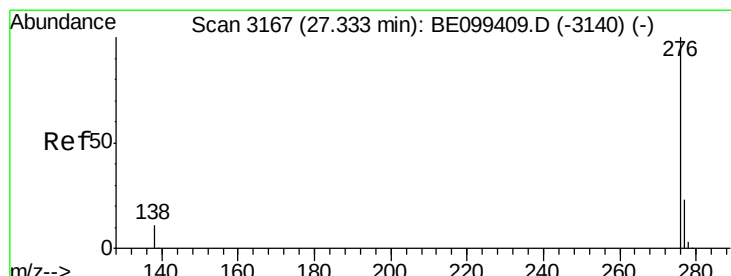
279 51.4 20.2 30.2#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



Time--> 26.40 26.50 26.60



#39

Benzo(g,h,i)perylene

Concen: 0.071 ng

RT: 27.34 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BE099525.D

Acq: 3 May 2019 10:54

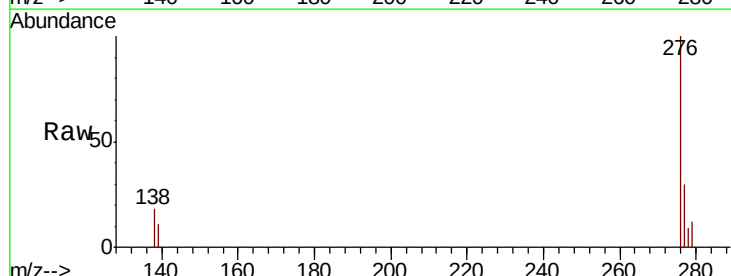
Tgt Ion:276 Resp: 5725

Ion Ratio Lower Upper

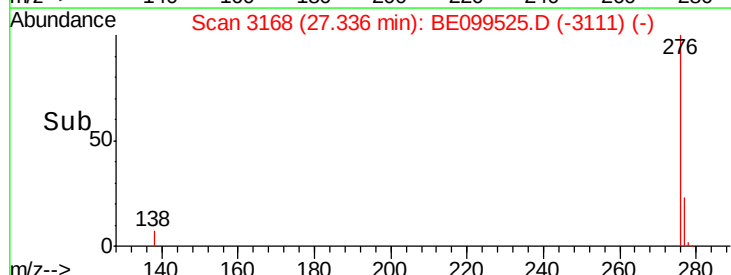
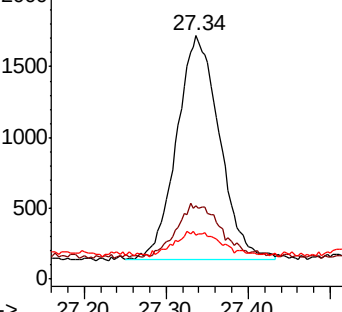
276 100

277 30.3 19.5 29.3#

138 17.9 9.6 14.4#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E



Time--> 27.20 27.30 27.40