

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099514.D
 Acq On : 3 May 2019 4:20
 Operator : JU/SJ
 Sample : K2569-09DL 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-004-SW019-042319DL

Quant Time: May 03 07:50:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	2445	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	9178	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7005	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	22259	0.40	ng	0.00
27) Chrysene-d12	21.37	240	28018	0.40	ng	0.00
34) Perylene-d12	23.87	264	31792	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	489	0.07	ng	0.00
5) Phenol-d6	6.98	99	654	0.07	ng	0.00
8) Nitrobenzene-d5	8.96	82	499	0.06	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	695	0.04	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	259	0.06	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	1046	0.04	ng	0.00
25) Fluoranthene-d10	19.22	212	8570	0.03	ng	0.00
29) Terphenyl-d14	19.82	244	1871	0.04	ng	0.00

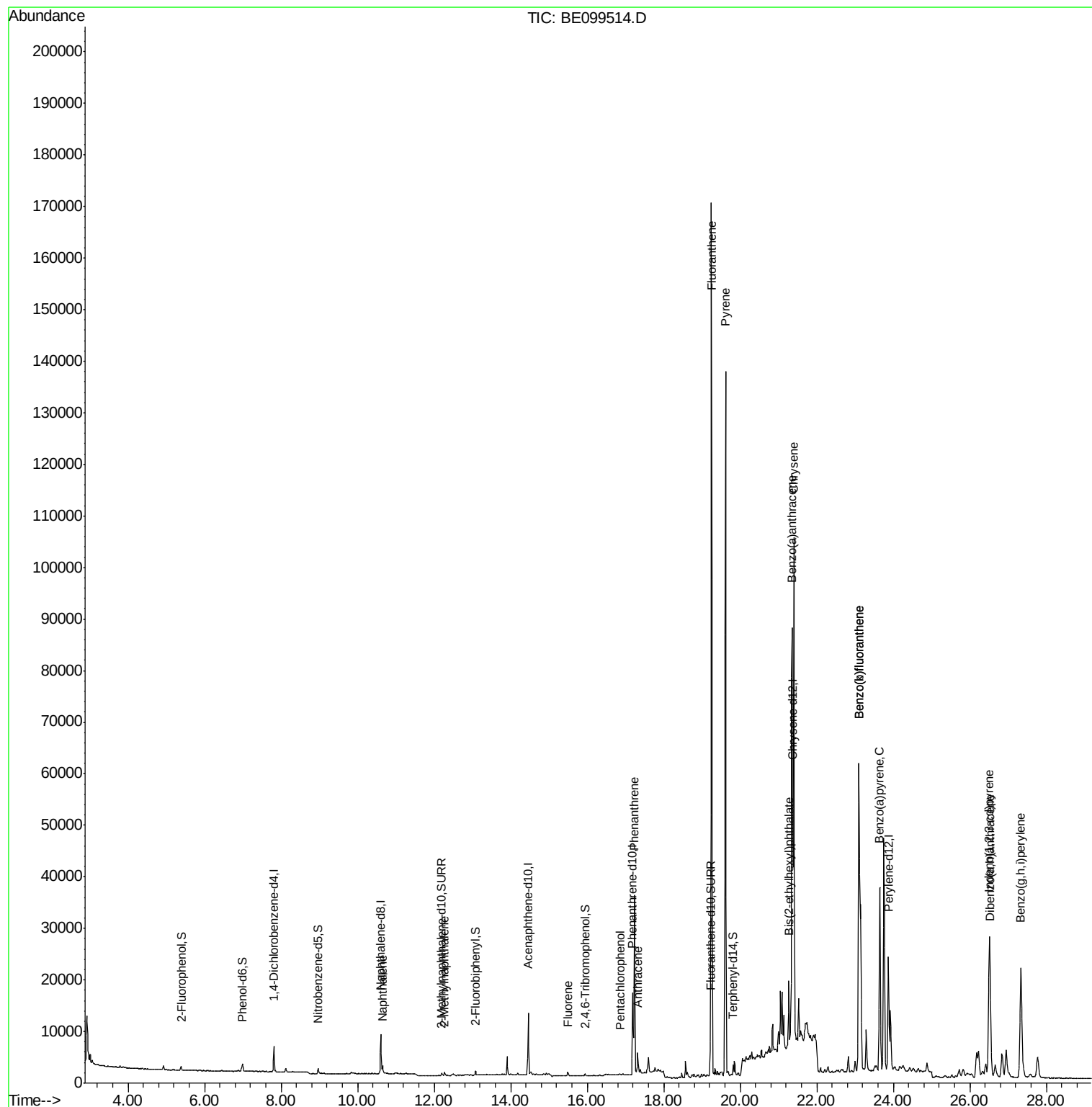
Target Compounds				Qvalue		
9) Naphthalene	10.65	128	2474	0.025	ng	# 91
12) 2-Methylnaphthalene	12.27	142	540	0.031	ng	# 88
18) Fluorene	15.49	166	744	0.026	ng	# 82
22) Pentachlorophenol	16.85	266	48	0.222	ng	# 65
23) Phenanthrene	17.23	178	36711	0.639	ng	100
24) Anthracene	17.32	178	4903	0.090	ng	96
26) Fluoranthene	19.25	202	158117	1.838	ng	100
28) Pyrene	19.62	202	130819	1.791	ng	# 95
30) Benzo(a)anthracene	21.35	228	76785	0.860	ng	98
31) Chrysene	21.40	228	94246	1.079	ng	98
32) Bis(2-ethylhexyl)phthalate	21.27	149	15032	0.048	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.51	276	57932	0.561	ng	98
35) Benzo(b)fluoranthene	23.10	252	115676	1.262	ng	98
36) Benzo(k)fluoranthene	23.10	252	115676	1.309	ng	99
37) Benzo(a)pyrene	23.64	252	57172	0.660	ng	99
38) Dibenzo(a,h)anthracene	26.54	278	13553	0.153	ng	# 90
39) Benzo(a,h,i)perylene	27.33	276	55685	0.627	ng	99

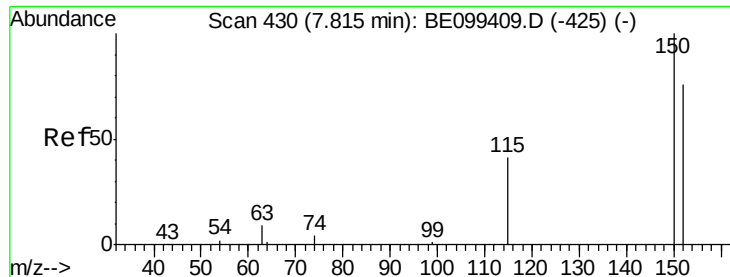
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

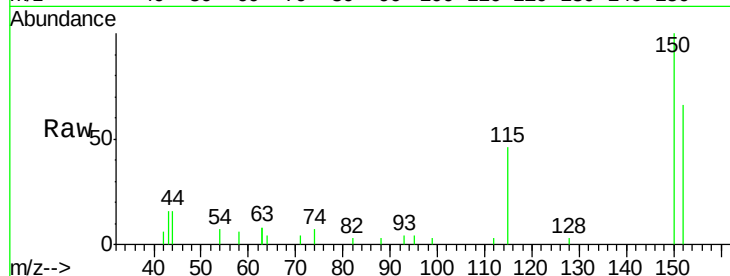
Tot Ion:152 Resp: 2445

Ion Ratio Lower Upper

152 100

150 151.9 104.8 157.2

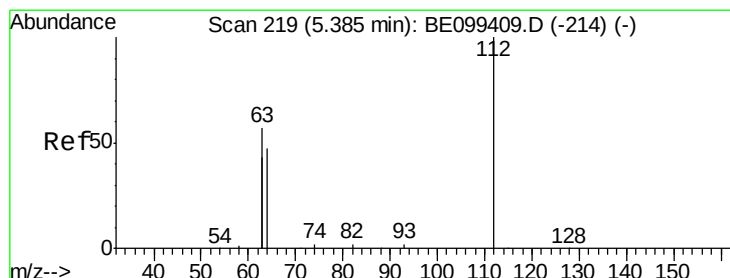
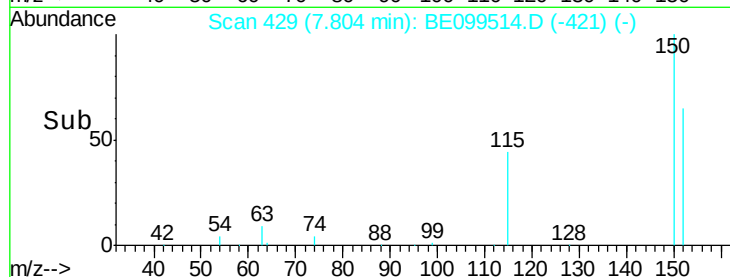
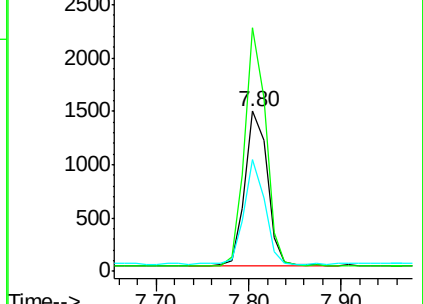
115 69.5 46.6 69.8



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



#4

2-Fluorophenol

Concen: 0.072 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

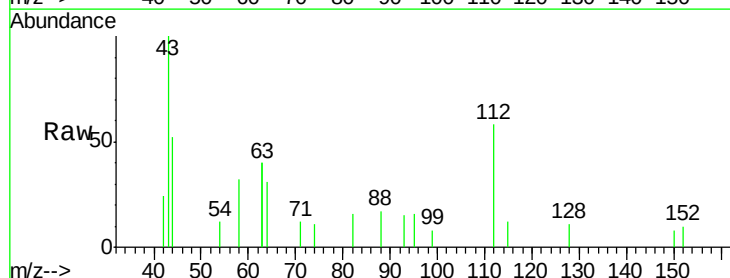
Tgt Ion:112 Resp: 489

Ion Ratio Lower Upper

112 100

64 57.7 47.4 71.0

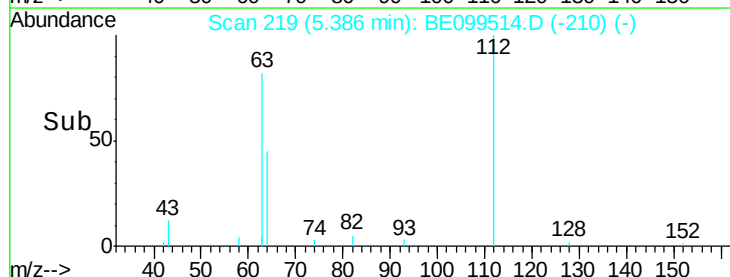
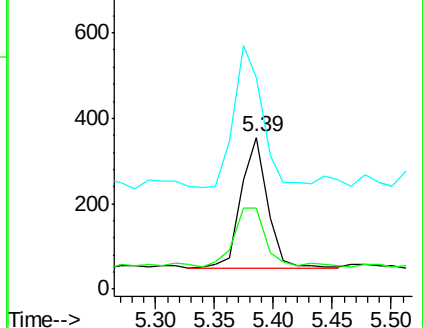
63 114.1 104.3 156.5

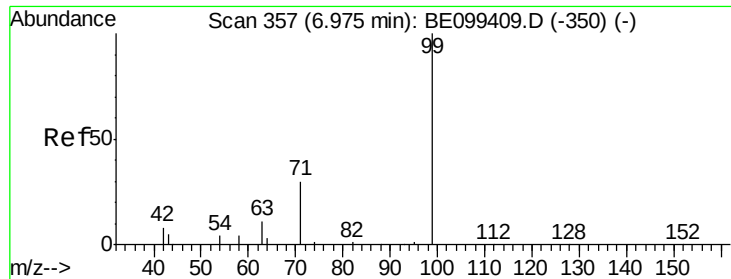


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.073 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

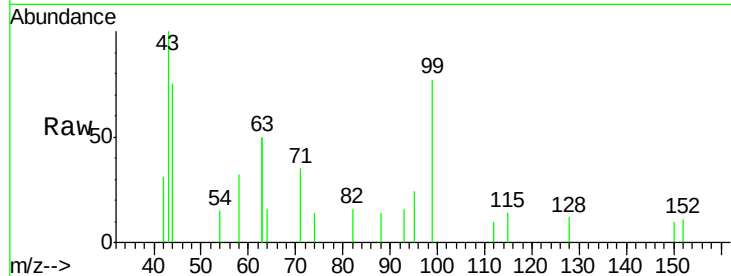
Tot Ion: 99 Resp: 654

Ion Ratio Lower Upper

99 100

42 0.0 14.9 22.3#

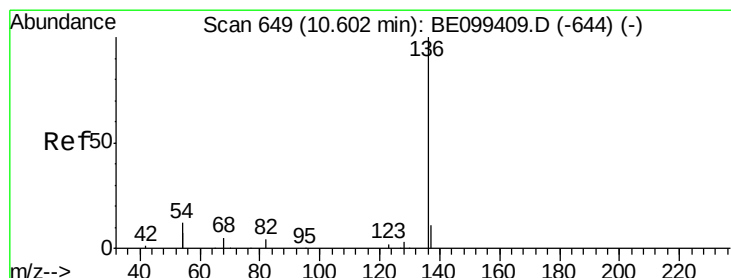
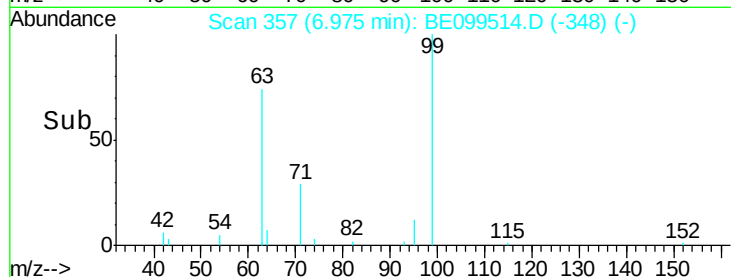
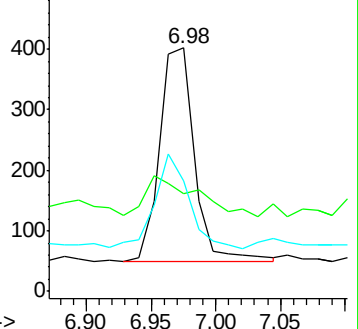
71 44.3 33.0 49.6



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: BE099514.D

Acq: 3 May 2019 4:20

Tgt Ion: 136 Resp: 9178

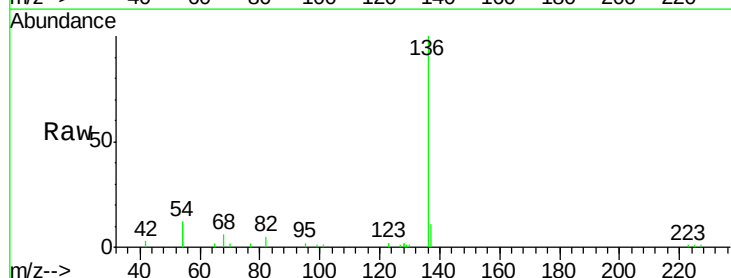
Ion Ratio Lower Upper

136 100

137 11.4 9.8 14.8

54 24.6 18.5 27.7

68 6.2 4.7 7.1

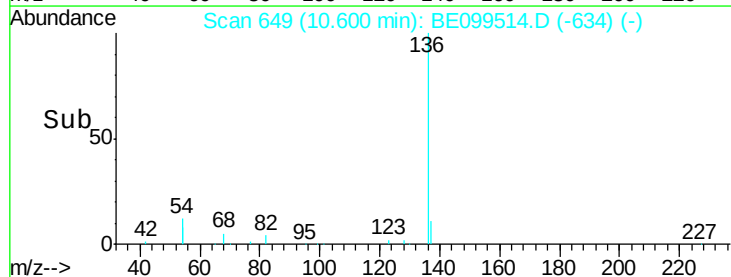
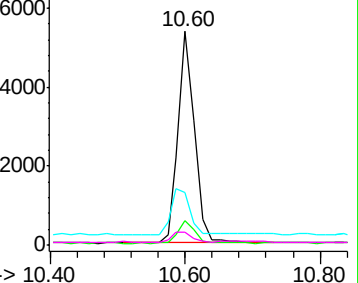


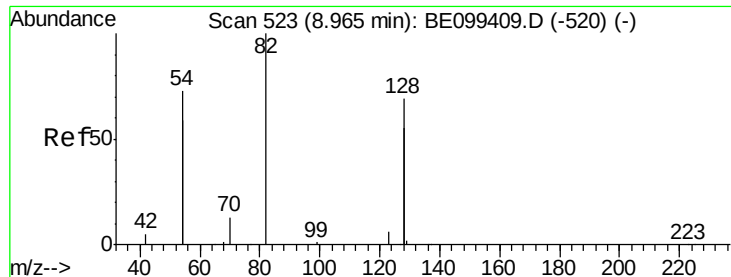
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.058 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

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PST-004-SW019-042319DL

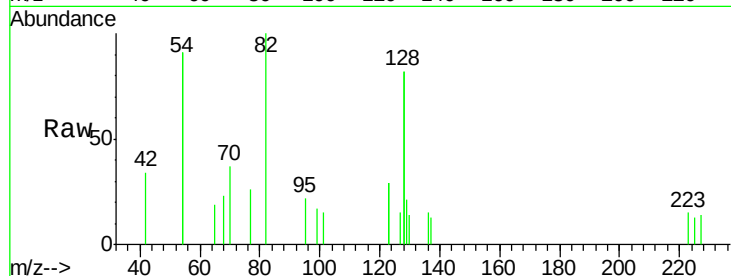
Tot Ion: 82 Resp: 499

Ion Ratio Lower Upper

82 100

128 163.9 107.0 160.4#

54 181.7 113.1 169.7#



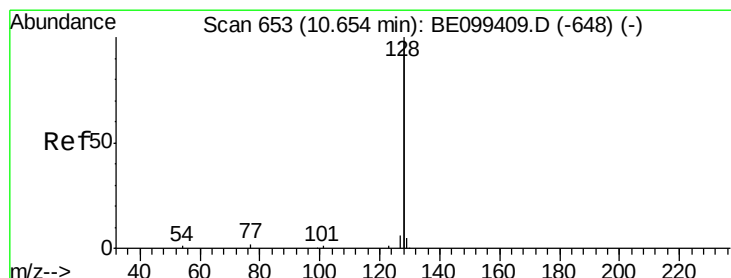
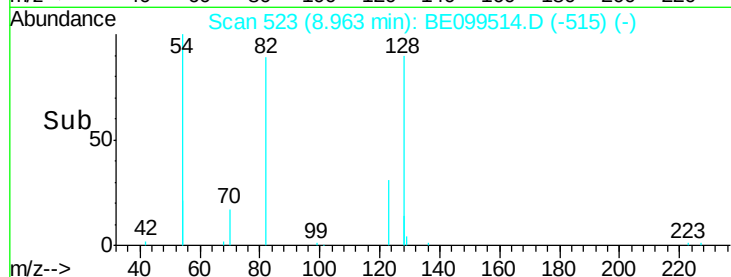
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

8.96

Time--> 8.85 8.90 8.95 9.00 9.05



#9

Naphthalene

Concen: 0.025 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

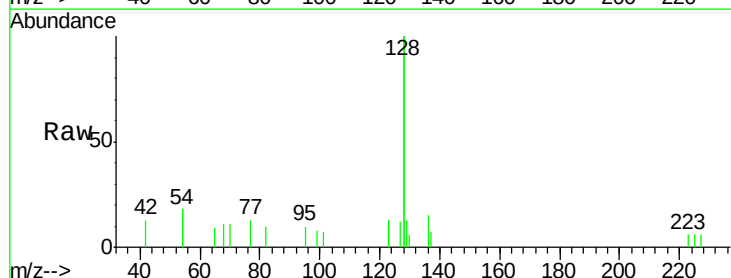
Tgt Ion: 128 Resp: 2474

Ion Ratio Lower Upper

128 100

129 6.6 2.4 3.6#

127 6.0 2.8 4.2#



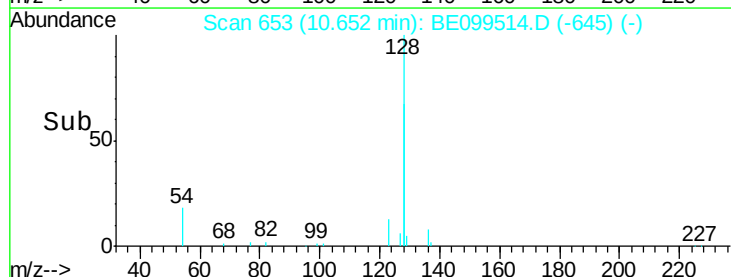
Abundance Ion 128.00 (127.70 to 128.70): E

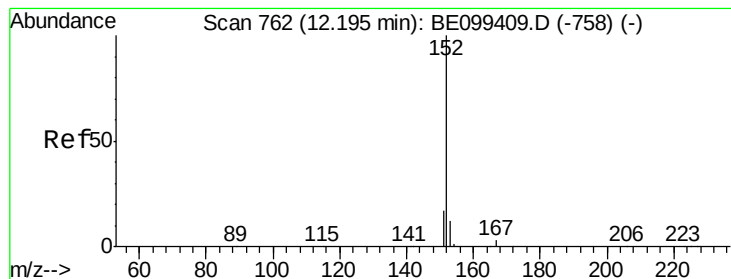
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.65

Time--> 10.60 10.70 10.80

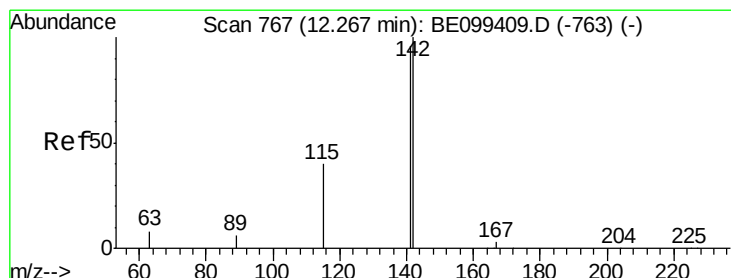
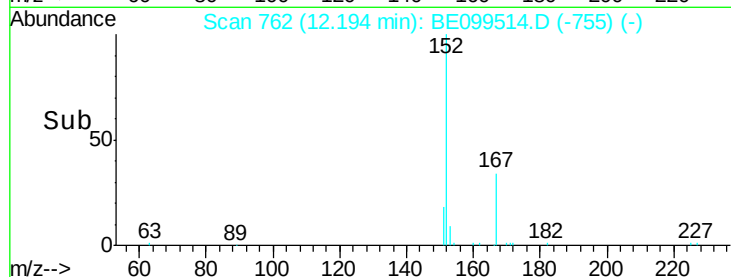
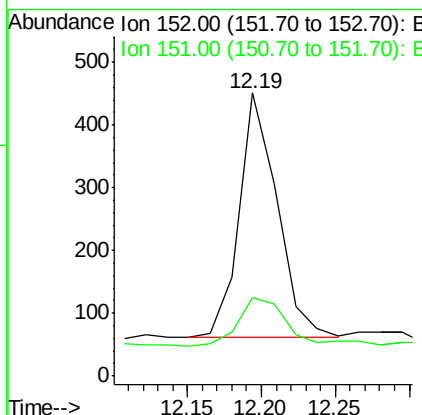
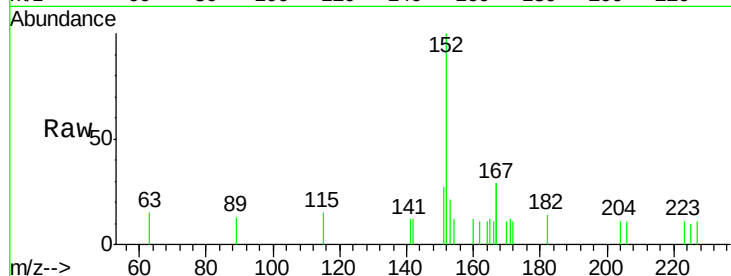




#11
2-Methylnaphthalene-d10
Concen: 0.042 ng
RT: 12.19 min Scan# 762
Delta R.T. -0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

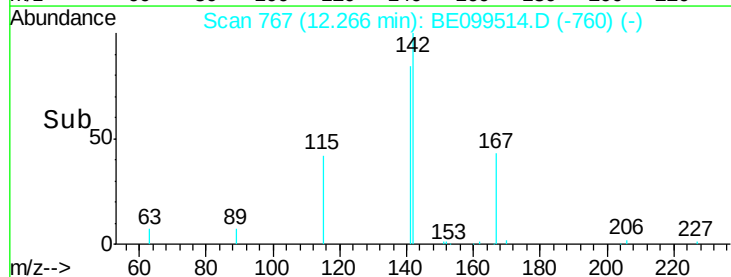
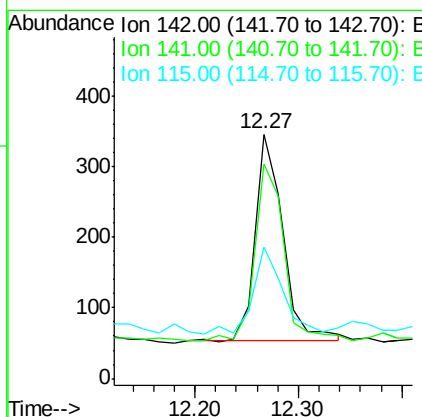
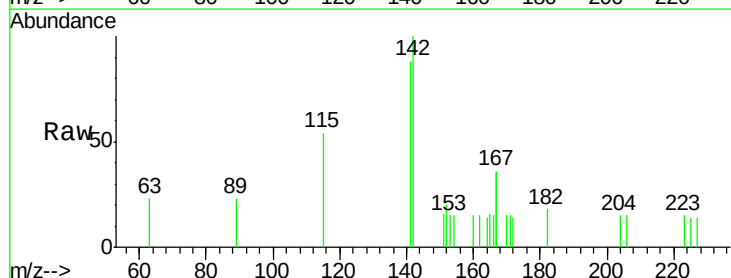
Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319DL

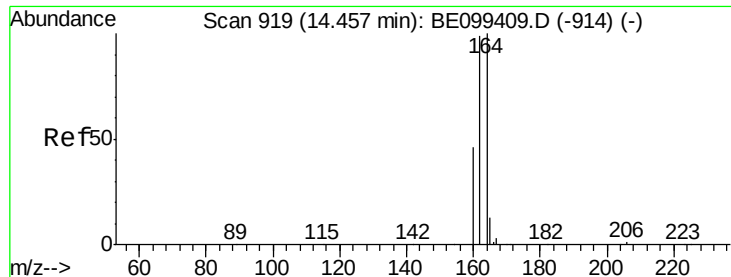
Tot Ion:152 Resp: 695
Ion Ratio Lower Upper
152 100
151 25.8 15.5 23.3#



#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Tgt Ion:142 Resp: 540
Ion Ratio Lower Upper
142 100
141 87.9 77.0 115.4
115 54.0 33.4 50.0#

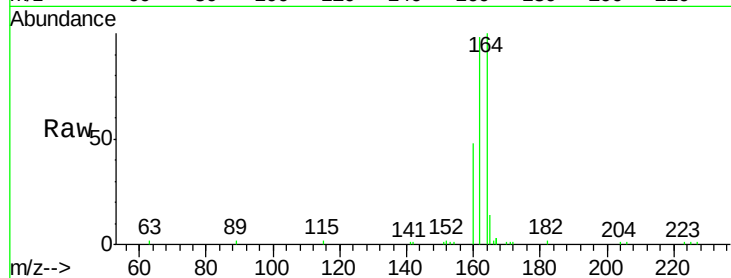




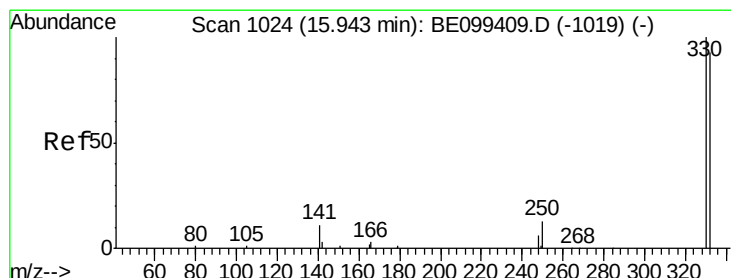
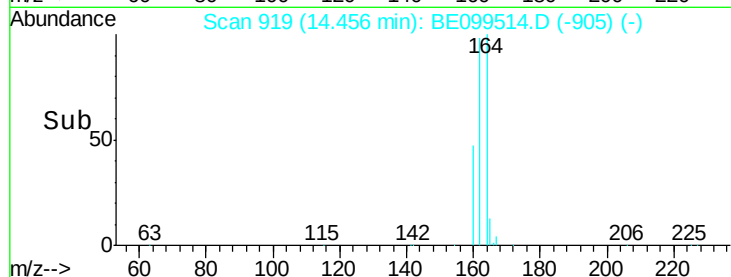
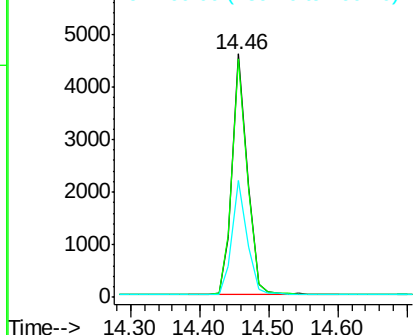
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319DL

Tot Ion:164 Resp: 7005
Ion Ratio Lower Upper
164 100
162 97.8 79.0 118.4
160 48.0 37.0 55.4

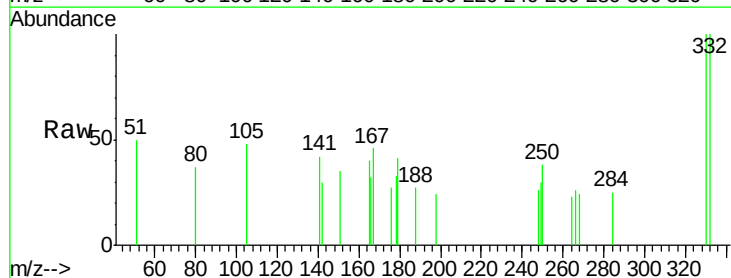


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

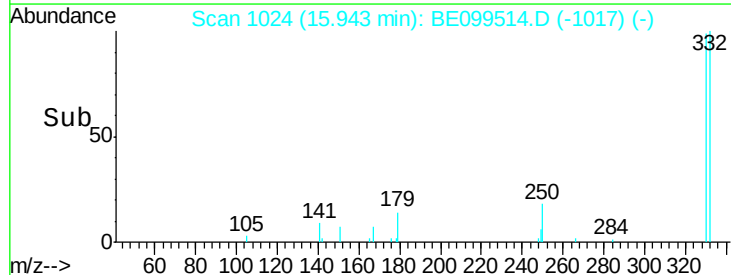
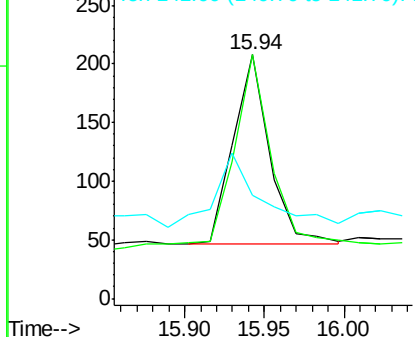


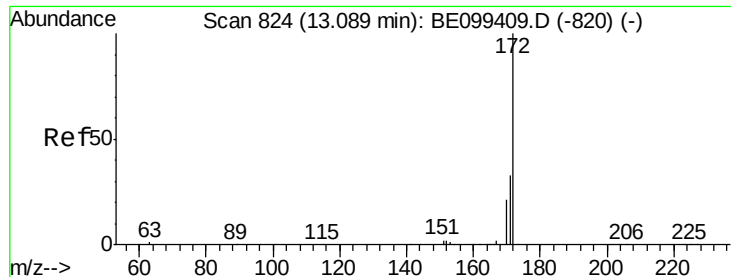
#14
2,4,6-Tribromophenol
Concen: 0.059 ng
RT: 15.94 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Tgt Ion:330 Resp: 259
Ion Ratio Lower Upper
330 100
332 111.6 71.5 107.3#
141 48.3 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

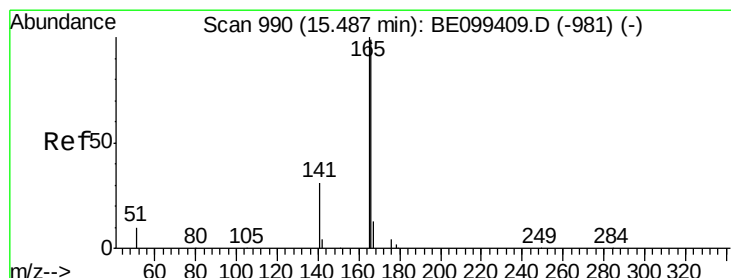
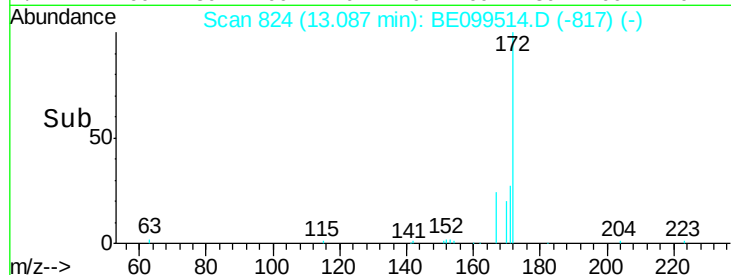
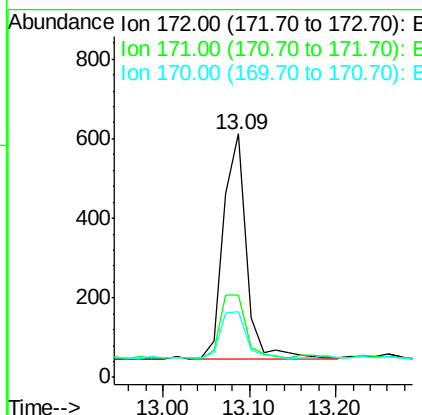
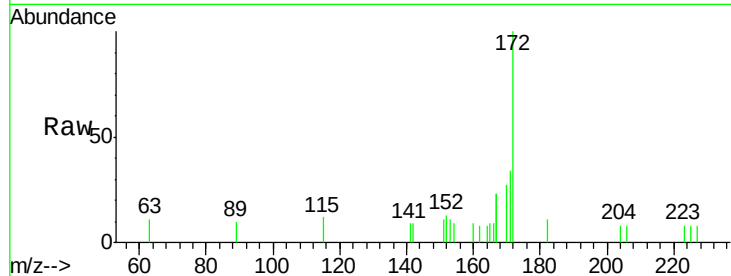




#15
2-Fluorobiphenyl
Concen: 0.039 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

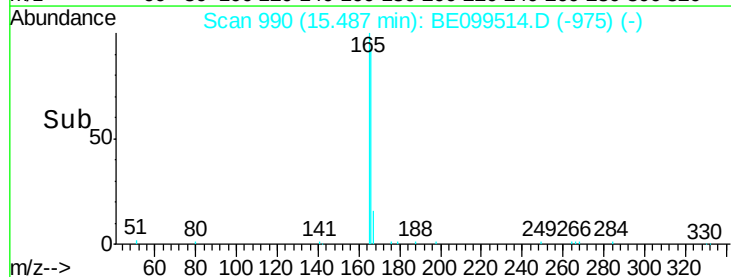
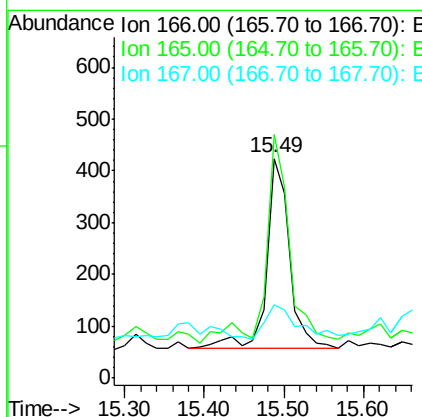
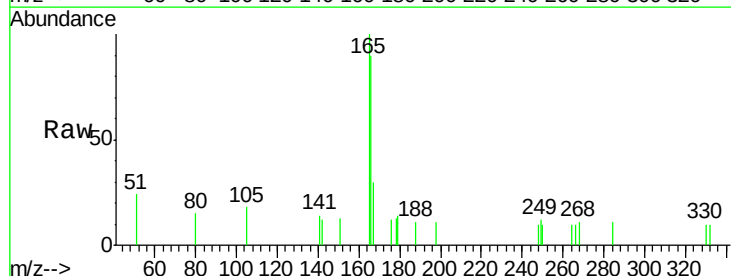
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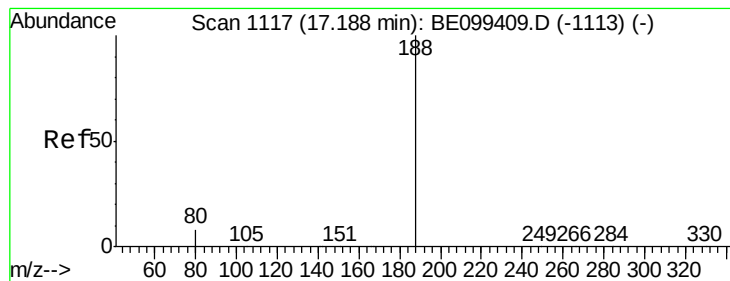
Tot Ion:172 Resp: 1046
Ion Ratio Lower Upper
172 100
171 33.7 26.6 39.8
170 27.0 17.0 25.6#



#18
Fluorene
Concen: 0.026 ng
RT: 15.49 min Scan# 990
Delta R.T. 0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Tgt Ion:166 Resp: 744
Ion Ratio Lower Upper
166 100
165 116.7 80.3 120.5
167 27.0 10.7 16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

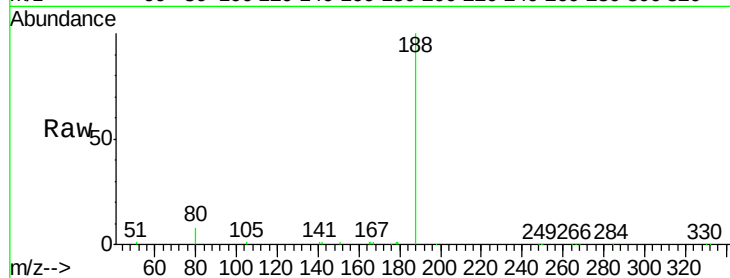
Tot Ion:188 Resp: 22259

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

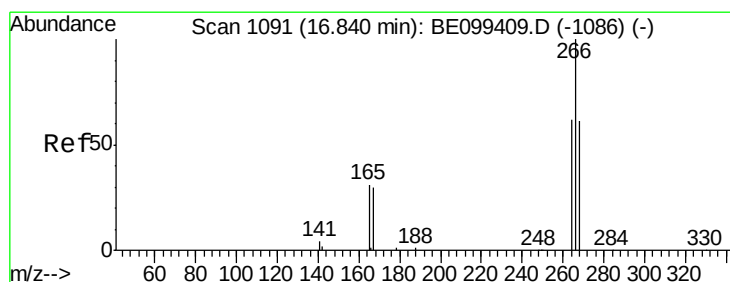
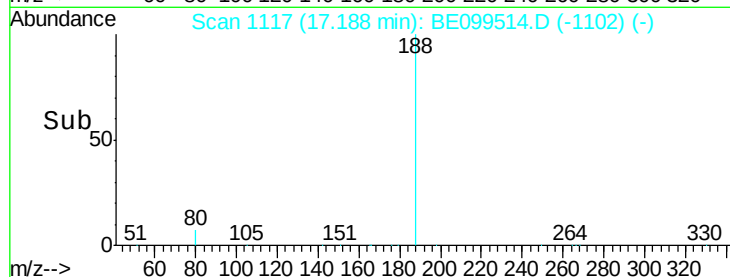
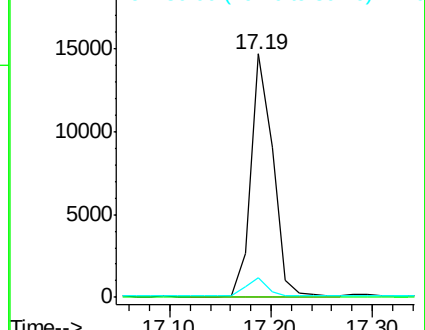
80 7.9 6.7 10.1



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: 16.85 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

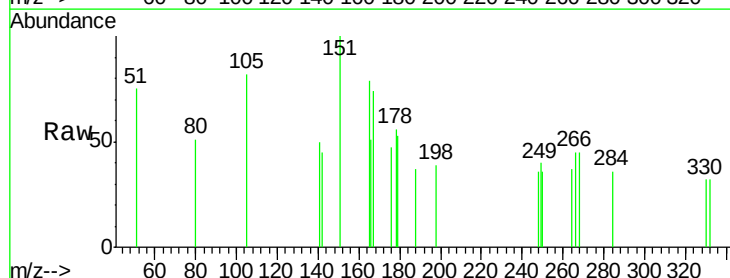
Tgt Ion:266 Resp: 48

Ion Ratio Lower Upper

266 100

264 81.8 50.8 76.2#

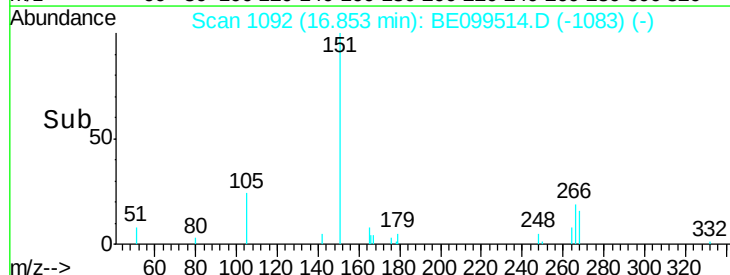
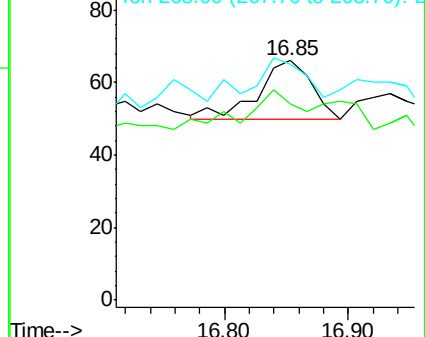
268 98.5 50.5 75.7#

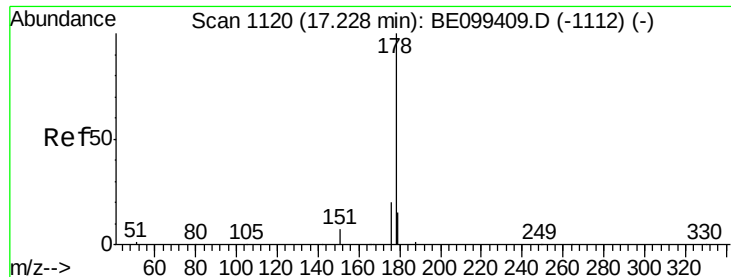


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.639 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

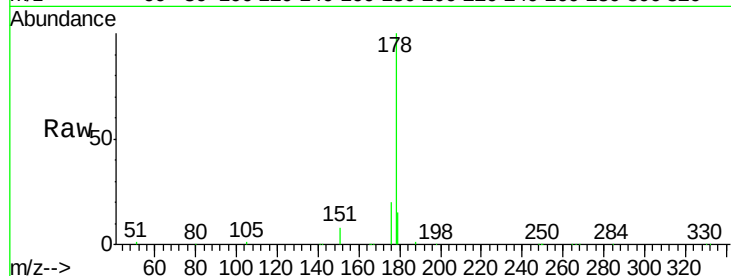
Tot Ion:178 Resp: 36711

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

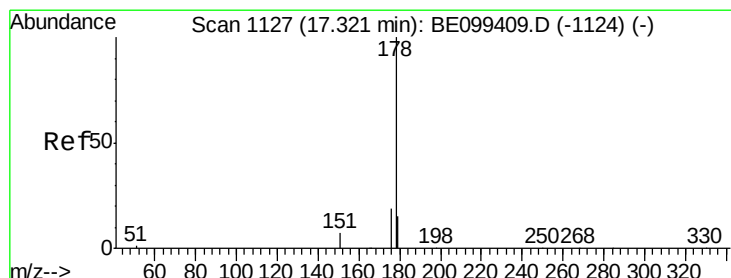
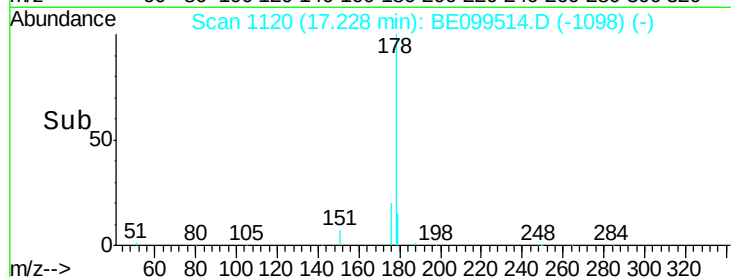
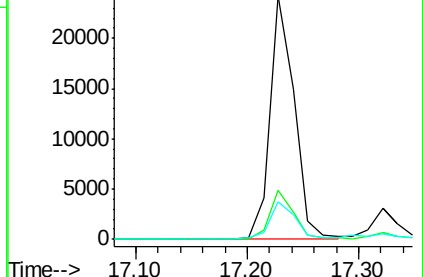
179 15.2 12.0 18.0



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



#24

Anthracene

Concen: 0.090 ng

RT: 17.32 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

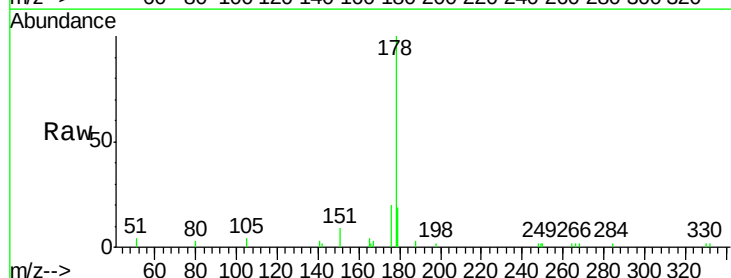
Tgt Ion:178 Resp: 4903

Ion Ratio Lower Upper

178 100

176 16.8 14.9 22.3

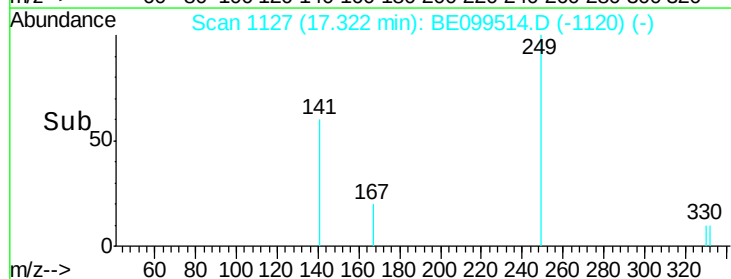
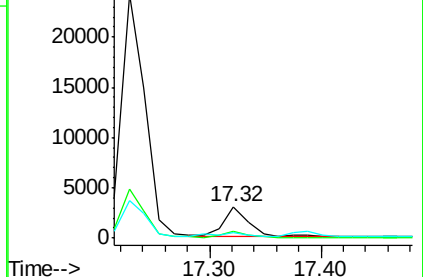
179 16.6 11.9 17.9

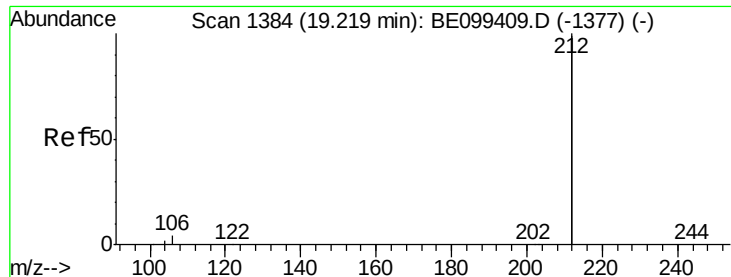


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.029 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

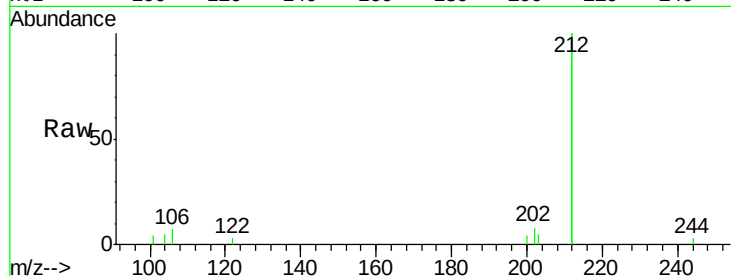
Tot Ion:212 Resp: 8570

Ion Ratio Lower Upper

212 100

106 2.2 1.5 2.3

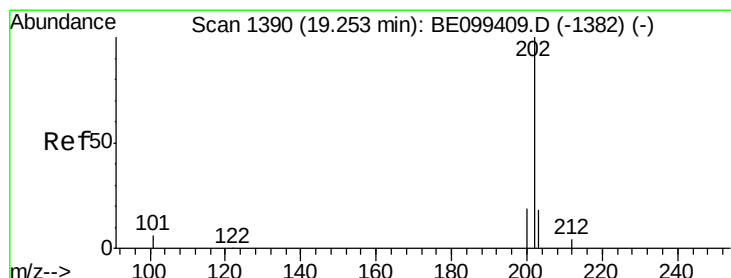
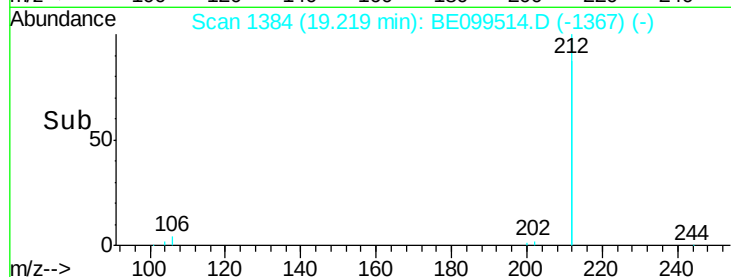
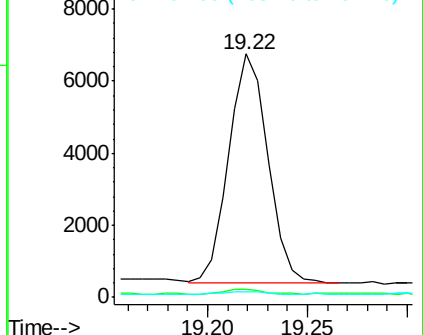
104 1.6 0.9 1.3#



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: 1.838 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

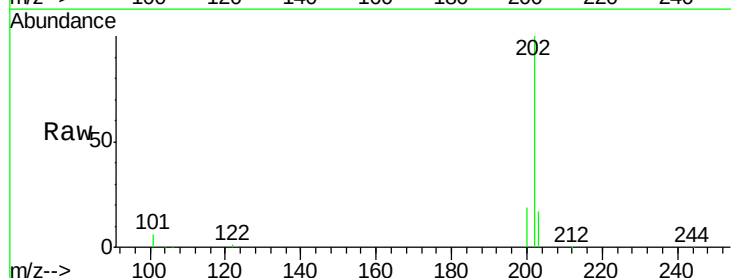
Tgt Ion:202 Resp: 158117

Ion Ratio Lower Upper

202 100

101 6.4 5.4 8.0

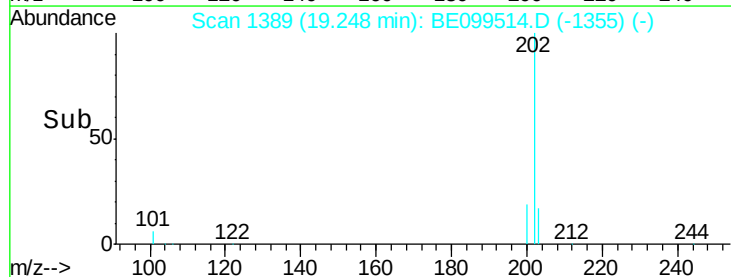
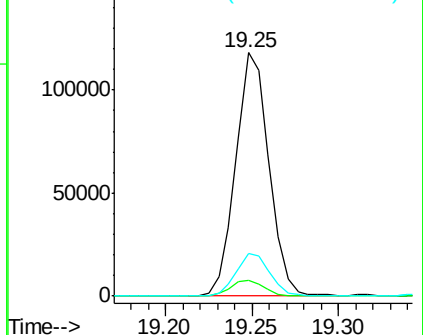
203 17.4 13.9 20.9

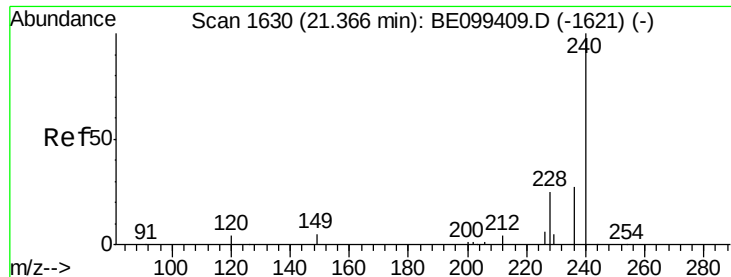


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

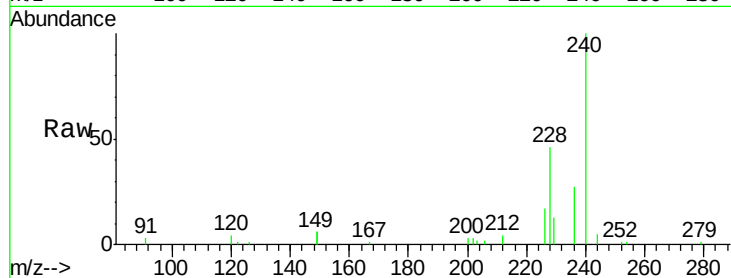
Tot Ion:240 Resp: 28018

Ion Ratio Lower Upper

240 100

120 4.0 4.0 6.0#

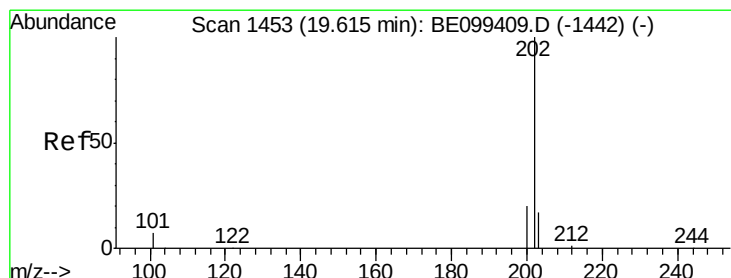
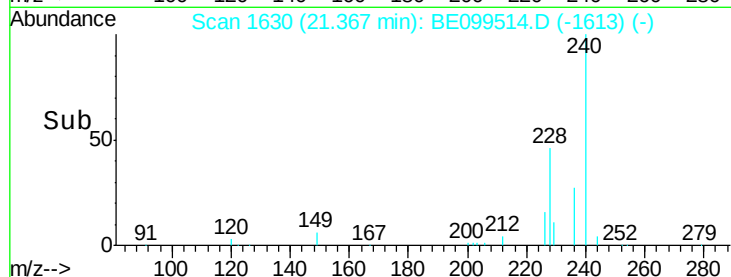
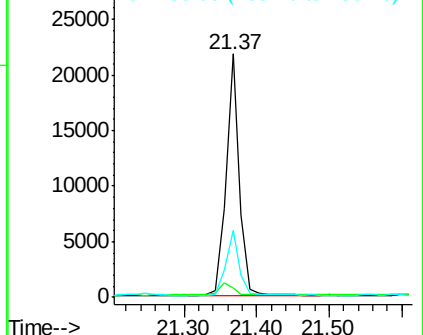
236 27.3 22.0 33.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 1.791 ng

RT: 19.62 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

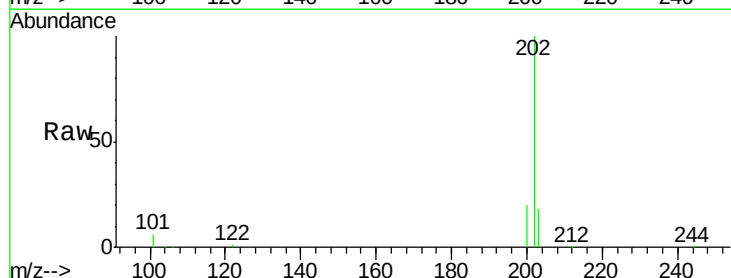
Tgt Ion:202 Resp: 130819

Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

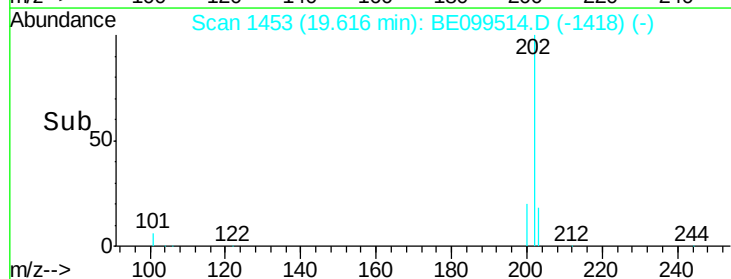
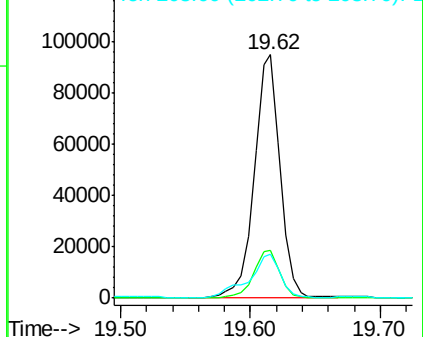
203 21.8 13.9 20.9#

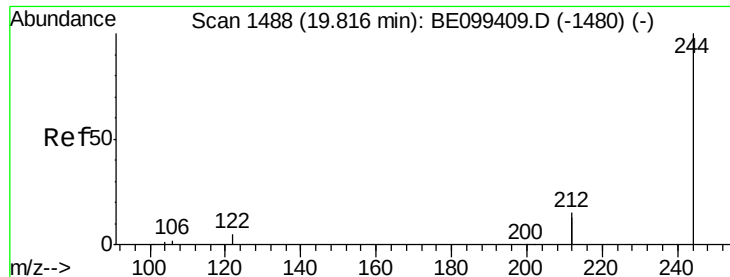


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.036 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

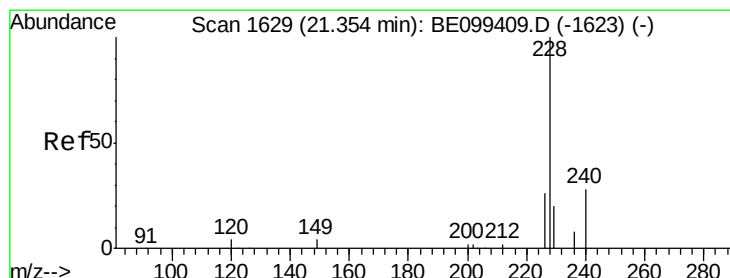
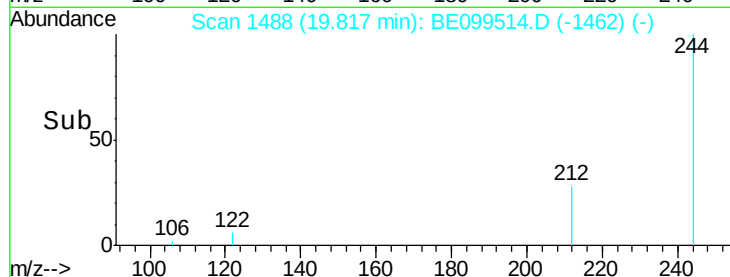
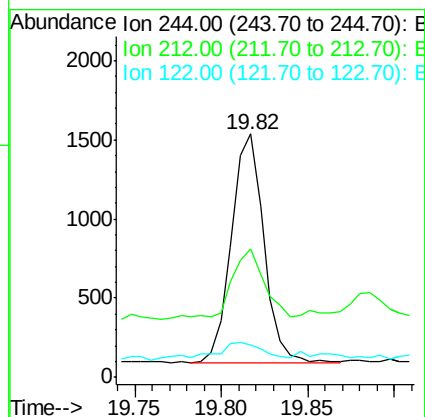
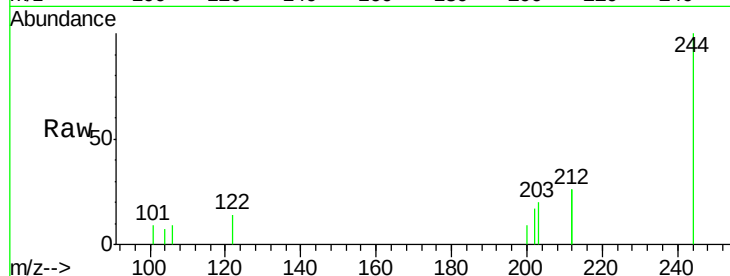
Tot Ion:244 Resp: 1871

Ion Ratio Lower Upper

244 100

212 52.5 23.2 34.8#

122 13.5 4.2 6.4#



#30

Benzo(a)anthracene

Concen: 0.860 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

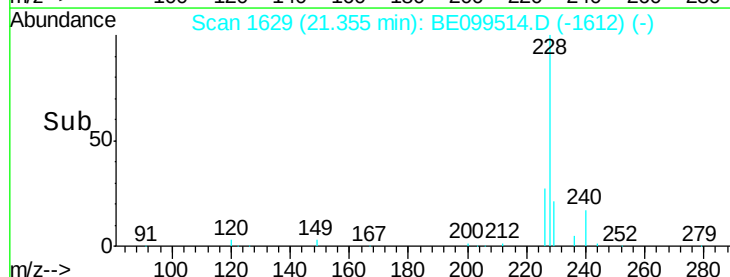
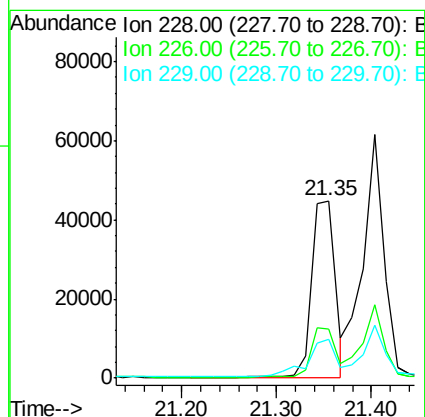
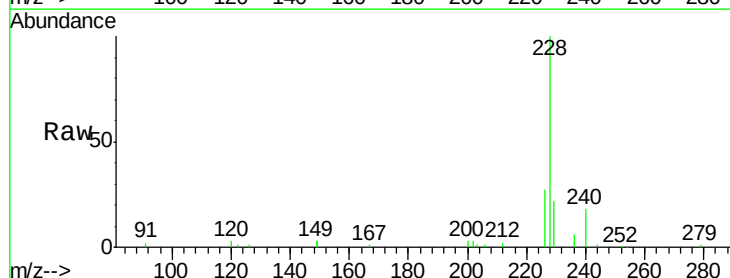
Tgt Ion:228 Resp: 76785

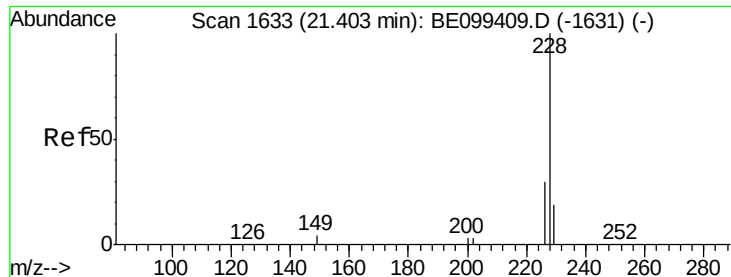
Ion Ratio Lower Upper

228 100

226 27.5 21.0 31.6

229 21.9 16.6 25.0





#31

Chrysene

Concen: 1.079 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

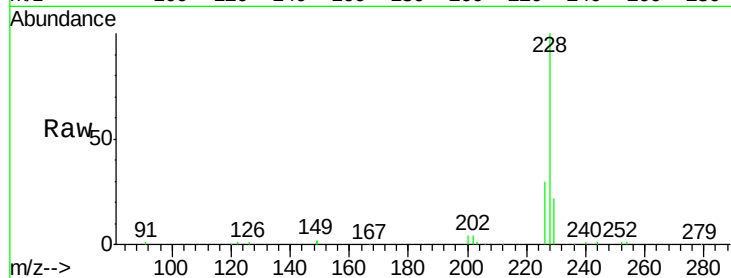
Tot Ion:228 Resp: 94246

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

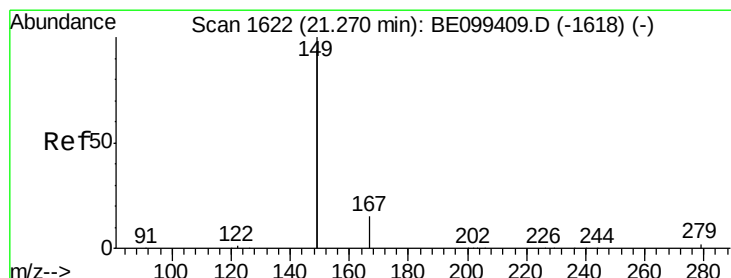
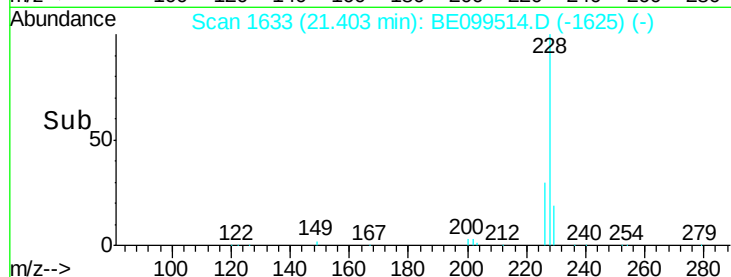
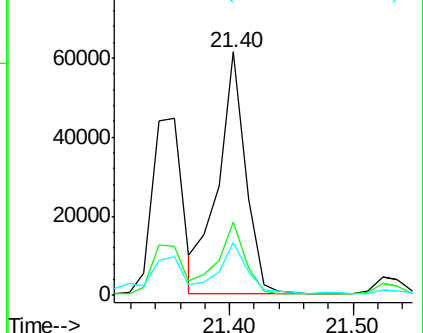
229 21.8 15.8 23.8



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: 0.048 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

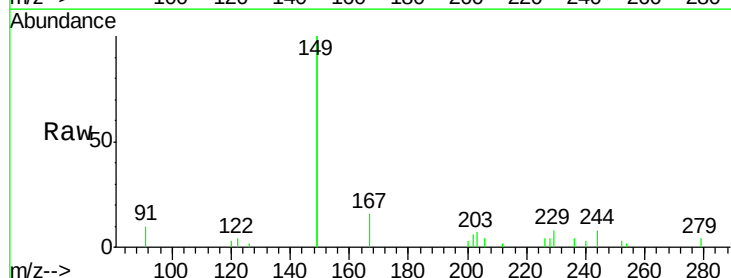
Tgt Ion:149 Resp: 15032

Ion Ratio Lower Upper

149 100

167 6.9 5.8 8.6

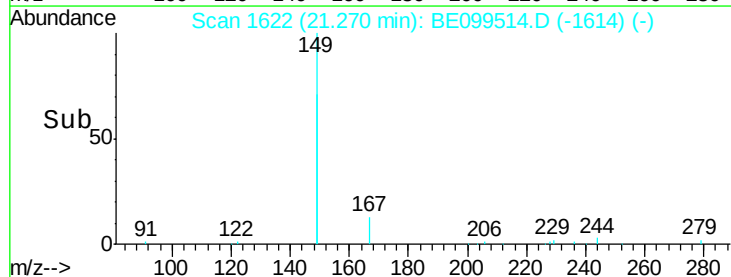
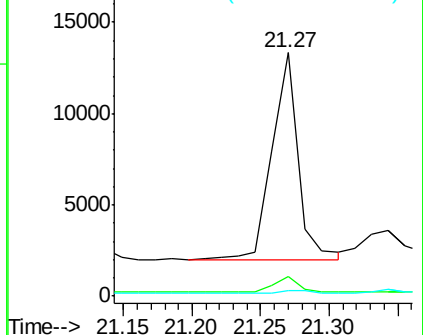
279 2.0 1.0 1.6#

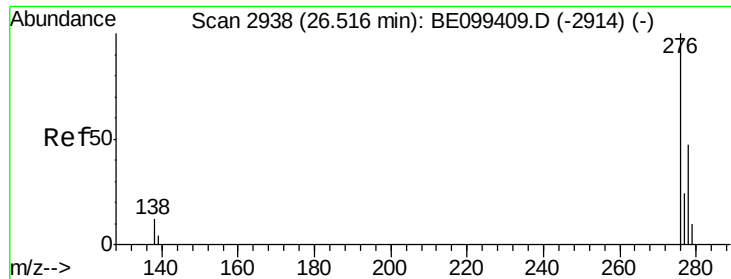


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

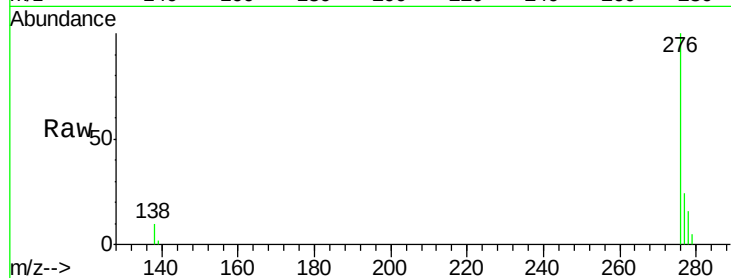




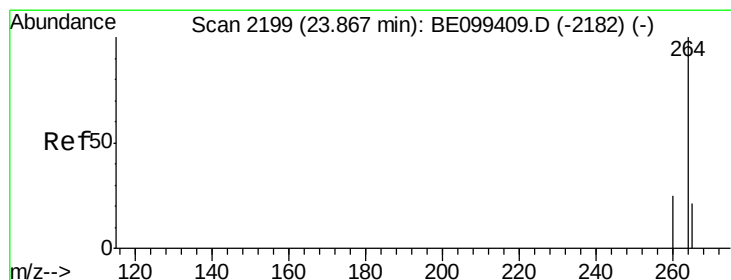
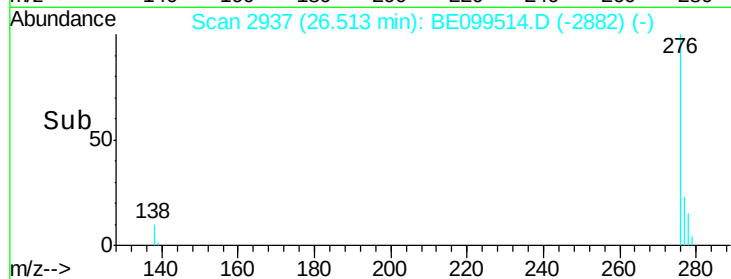
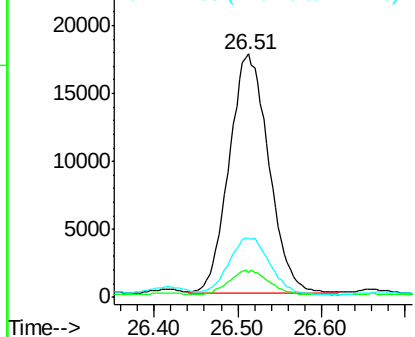
#33
Indeno(1,2,3-cd)pyrene
Concen: 0.561 ng
RT: 26.51 min Scan# 2937
Delta R.T. -0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319DL

Tot Ion:276 Resp: 57932
Ion Ratio Lower Upper
276 100
138 10.4 10.2 15.2
277 24.3 19.2 28.8

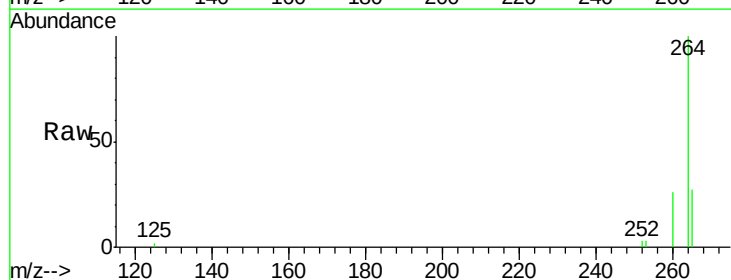


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

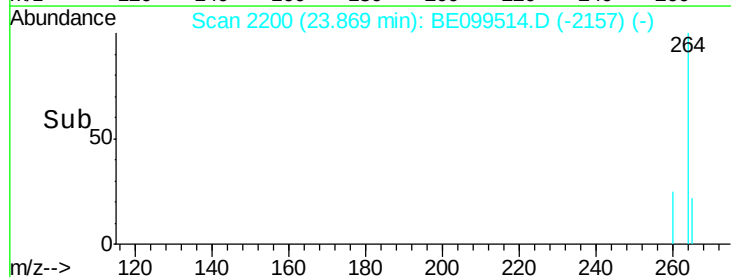
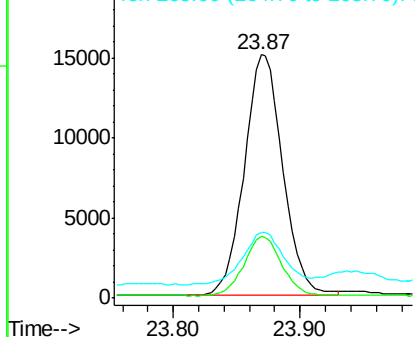


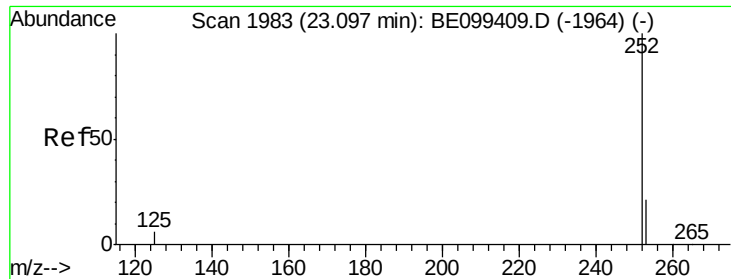
#34
Perylene-d12
Concen: 0.400 ng
RT: 23.87 min Scan# 2200
Delta R.T. 0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Tgt Ion:264 Resp: 31792
Ion Ratio Lower Upper
264 100
260 25.5 20.2 30.2
265 27.0 21.3 31.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

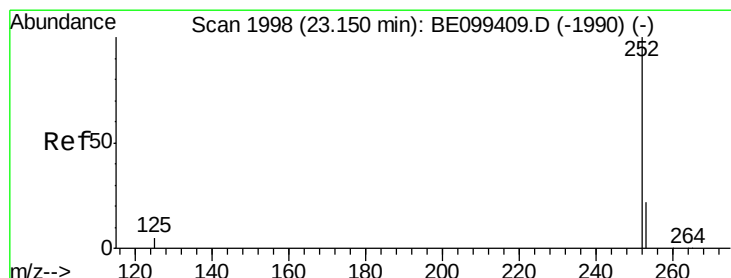
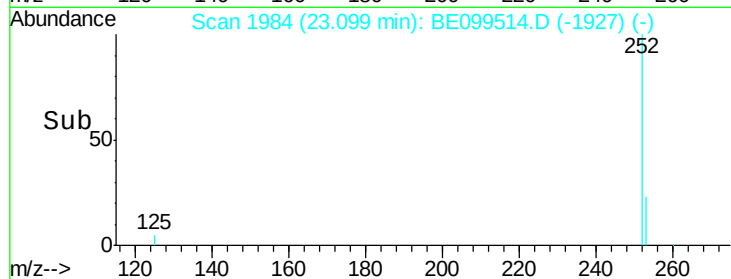
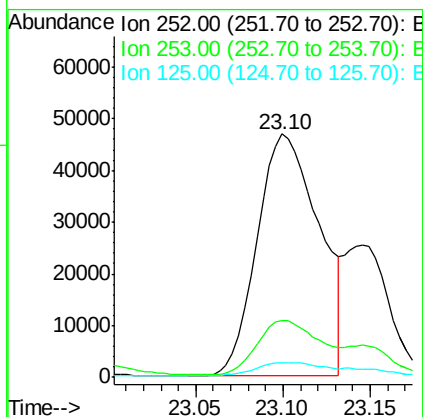
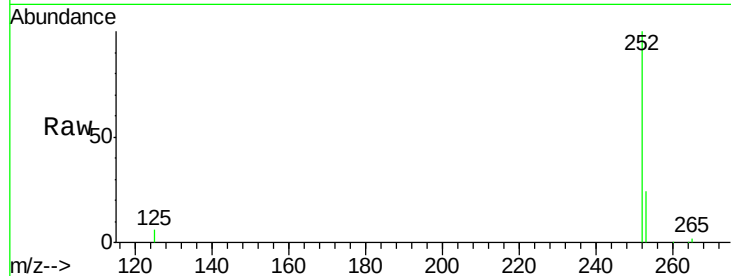




#35
Benzo(b)fluoranthene
Concen: 1.262 ng
RT: 23.10 min Scan# 1984
Delta R.T. 0.00 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

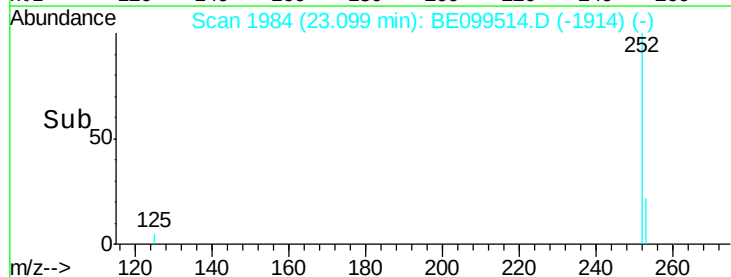
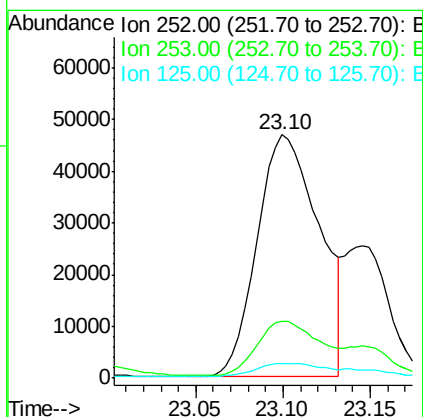
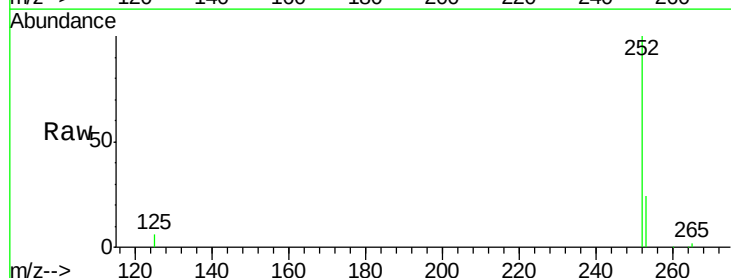
Instrument :
BNA_E
ClientSampleId :
PST-004-SW019-042319DL

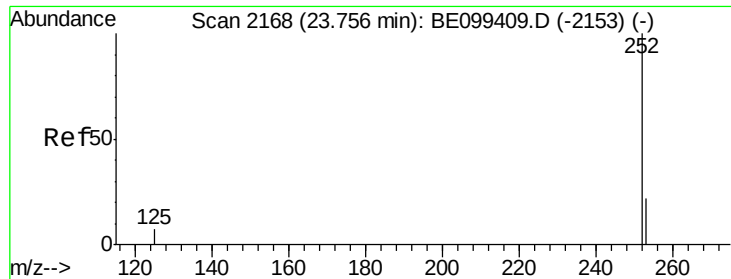
Tot Ion:252 Resp: 115676
Ion Ratio Lower Upper
252 100
253 23.5 18.1 27.1
125 6.1 5.6 8.4



#36
Benzo(k)fluoranthene
Concen: 1.309 ng
RT: 23.10 min Scan# 1984
Delta R.T. -0.05 min
Lab File: BE099514.D
Acq: 3 May 2019 4:20

Tgt Ion:252 Resp: 115676
Ion Ratio Lower Upper
252 100
253 23.5 18.4 27.6
125 6.1 5.0 7.4





#37

Benzo(a)pyrene

Concen: 0.660 ng

RT: 23.64 min Scan# 2137

Delta R.T. -0.11 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL

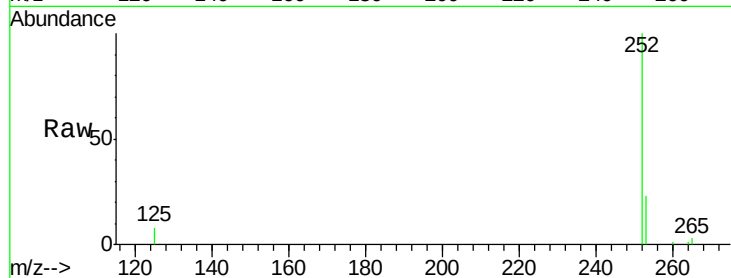
Tot Ion:252 Resp: 57172

Ion Ratio Lower Upper

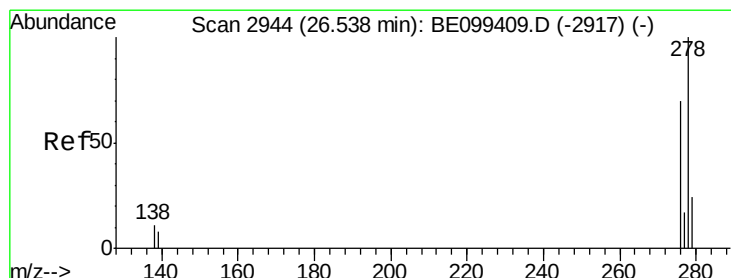
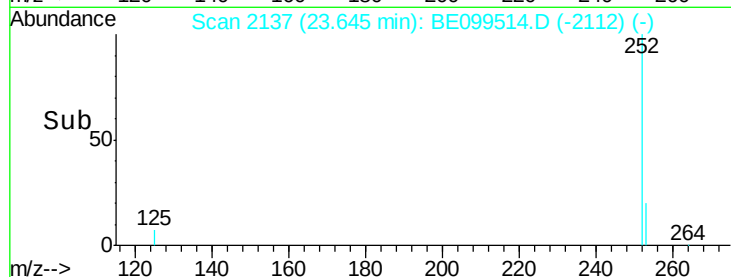
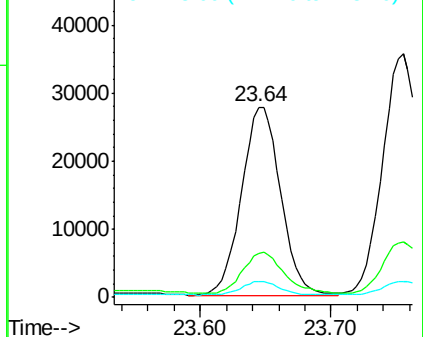
252 100

253 23.1 18.9 28.3

125 8.2 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: 0.153 ng

RT: 26.54 min Scan# 2944

Delta R.T. 0.00 min

Lab File: BE099514.D

Acq: 3 May 2019 4:20

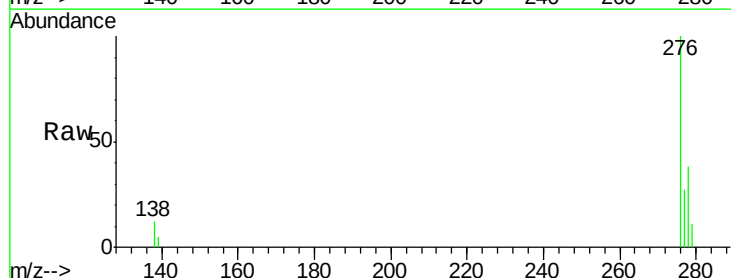
Tgt Ion:278 Resp: 13553

Ion Ratio Lower Upper

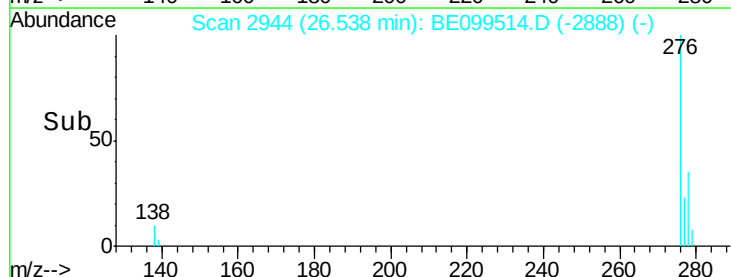
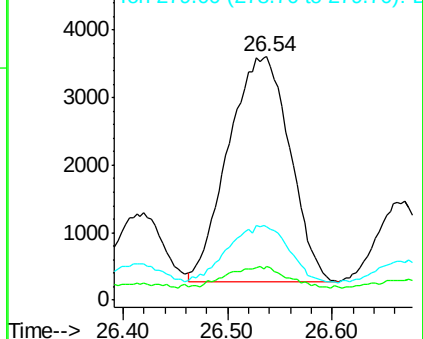
278 100

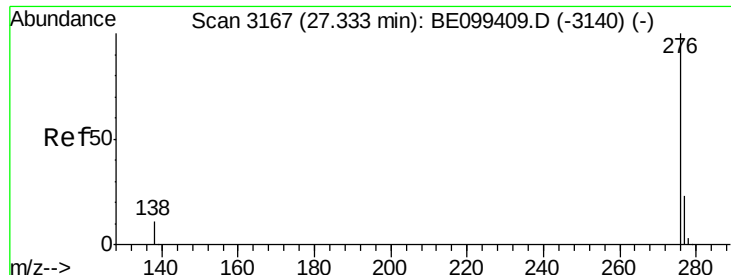
139 13.7 7.7 11.5#

279 30.1 20.2 30.2



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





#39

Benzo(a,h,i)perylene

Concen: 0.627 ng

RT: 27.33 min Scan# 3167

Delta R.T. 0.00 min

Lab File: BE099514.D

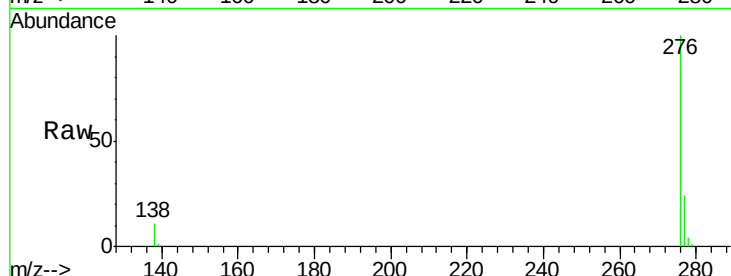
Acq: 3 May 2019 4:20

Instrument :

BNA_E

ClientSampleId :

PST-004-SW019-042319DL



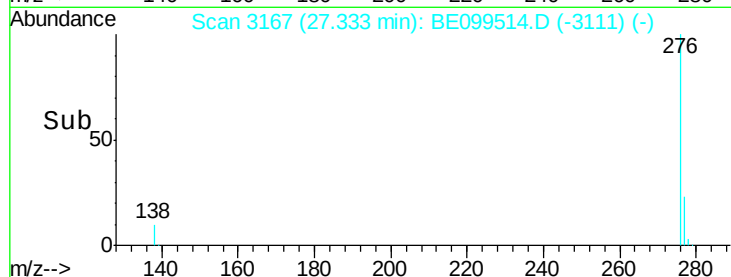
Tot Ion: 276 Resp: 55685

Ion Ratio Lower Upper

276 100

277 24.1 19.5 29.3

138 11.4 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

