

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050119\
 Data File : BE099470.D
 Acq On : 1 May 2019 18:57
 Operator : JU/SJ
 Sample : K2589-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B203-042519

Quant Time: May 02 04:15:02 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	1963	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	7392	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5757	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	18885	0.40	ng	0.00
27) Chrysene-d12	21.37	240	24825	0.40	ng	0.00
34) Perylene-d12	23.86	264	28213	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	2272	0.42	ng	0.00
5) Phenol-d6	6.97	99	3284	0.45	ng	0.00
8) Nitrobenzene-d5	8.96	82	2646	0.38	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	5161	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1628	0.45	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	7618	0.35	ng	-0.01
25) Fluoranthene-d10	19.22	212	92930	0.37	ng	0.00
29) Terphenyl-d14	19.81	244	18559	0.41	ng	0.00

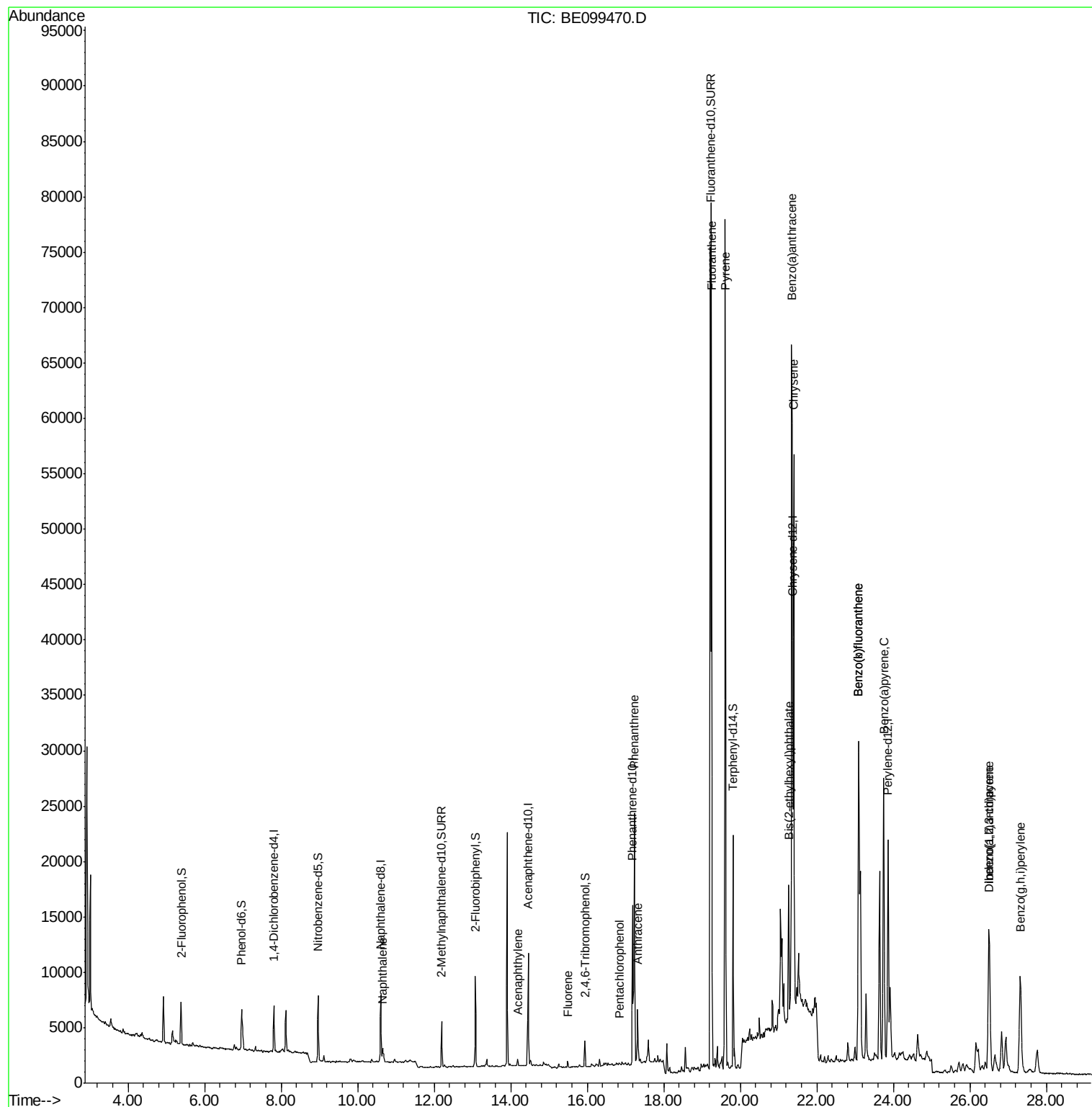
Target Compounds				Qvalue		
9) Naphthalene	10.65	128	2046	0.025	ng	# 89
16) Acenaphthylene	14.18	152	970	0.034	ng	99
18) Fluorene	15.49	166	484	0.020	ng	# 91
22) Pentachlorophenol	16.84	266	54	0.225	ng	# 68
23) Phenanthrene	17.23	178	22473	0.461	ng	99
24) Anthracene	17.32	178	4851	0.104	ng	# 93
26) Fluoranthene	19.25	202	73705	1.010	ng	100
28) Pyrene	19.61	202	69819	1.079	ng	# 95
30) Benzo(a)anthracene	21.34	228	54451	0.688	ng	97
31) Chrysene	21.40	228	49417	0.638	ng	96
32) Bis(2-ethylhexyl)phthalate	21.27	149	17430	0.084	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.50	276	25677	0.281	ng	97
35) Benzo(b)fluoranthene	23.09	252	56408	0.693	ng	96
36) Benzo(k)fluoranthene	23.09	252	56408	0.719	ng	# 97
37) Benzo(a)pyrene	23.75	252	41658	0.542	ng	98
38) Dibenzo(a,h)anthracene	26.52	278	7200	0.092	ng	# 80
39) Benzo(a,h,i)perylene	27.32	276	23422	0.297	ng	98

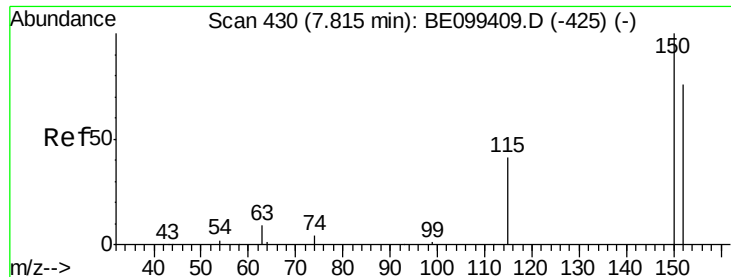
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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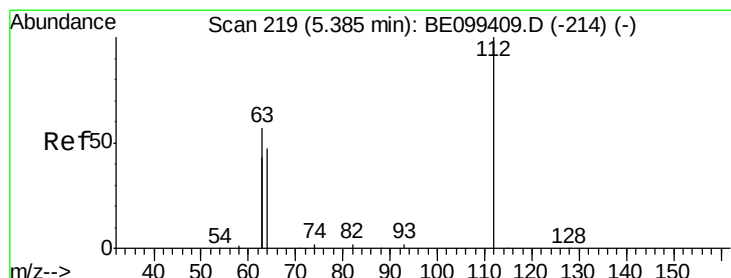
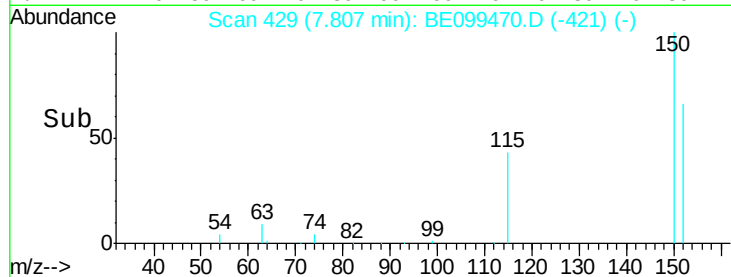
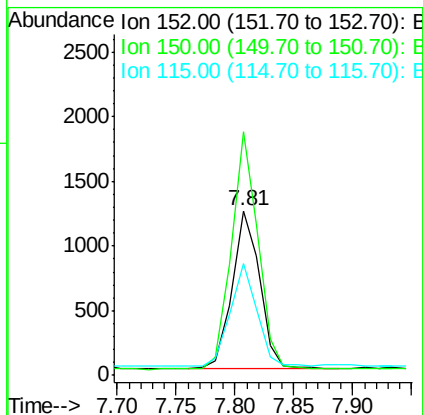
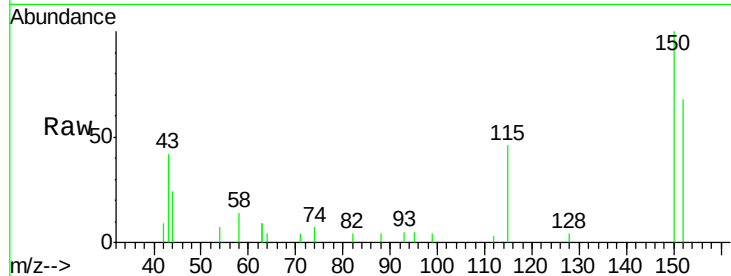


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.81 min Scan# 429
Delta R.T. -0.01 min
Lab File: BE099470.D
Acq: 1 May 2019 18:57

Instrument :
BNA_E
ClientSampleId :
PST-001-B203-042519

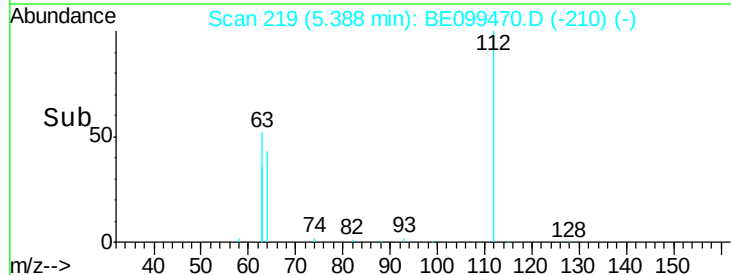
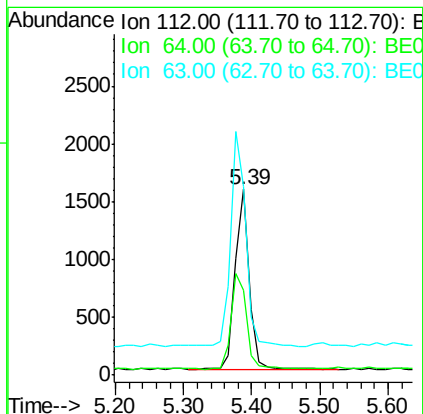
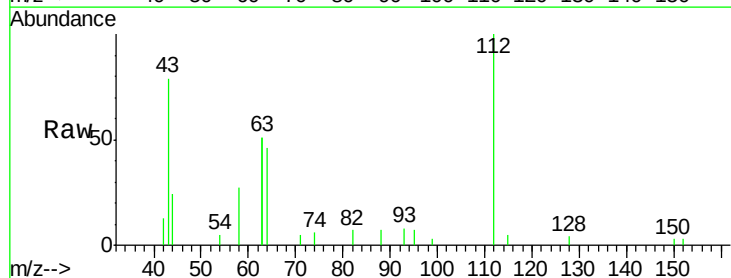
Tot Ion:152 Resp: 1963
Ion Ratio Lower Upper
152 100
150 148.1 104.8 157.2
115 67.8 46.6 69.8

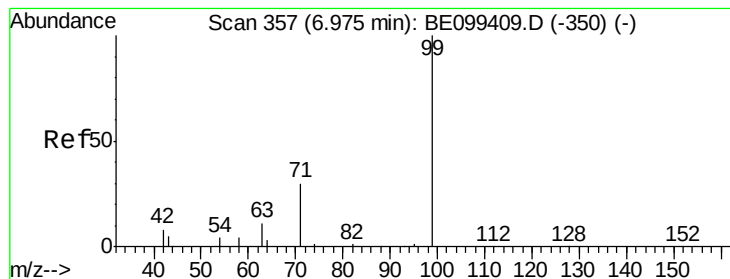


#4

2-Fluorophenol
Concen: 0.419 ng
RT: 5.39 min Scan# 219
Delta R.T. 0.00 min
Lab File: BE099470.D
Acq: 1 May 2019 18:57

Tgt Ion:112 Resp: 2272
Ion Ratio Lower Upper
112 100
64 58.6 47.4 71.0
63 128.7 104.3 156.5





#5

Phenol-d6

Concen: 0.455 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

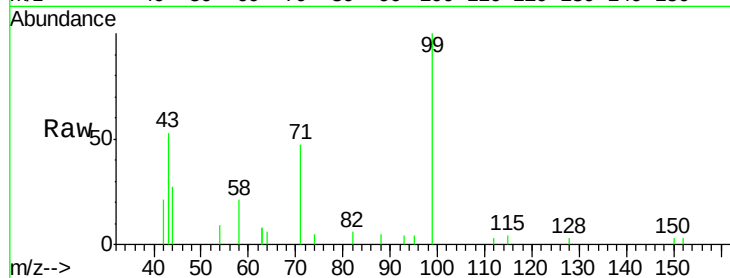
Tot Ion: 99 Resp: 3284

Ion Ratio Lower Upper

99 100

42 16.3 14.9 22.3

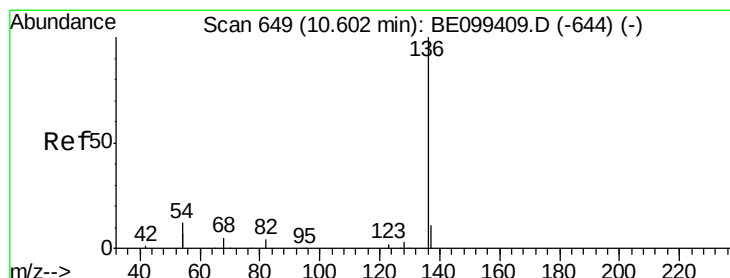
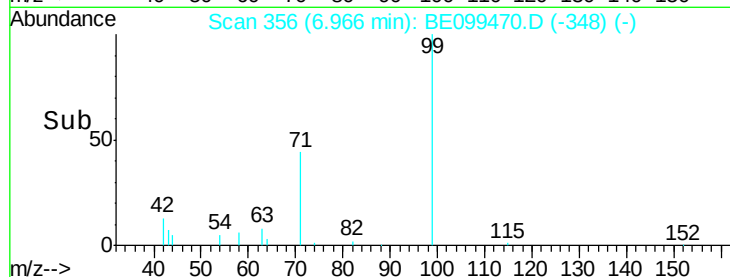
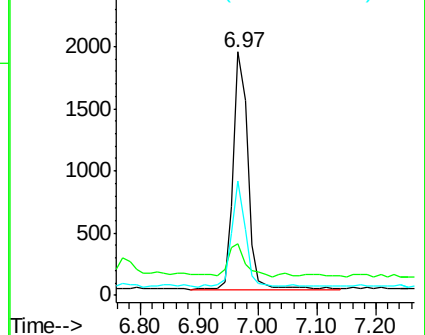
71 41.8 33.0 49.6



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: BE099470.D

Acq: 1 May 2019 18:57

Tgt Ion: 136 Resp: 7392

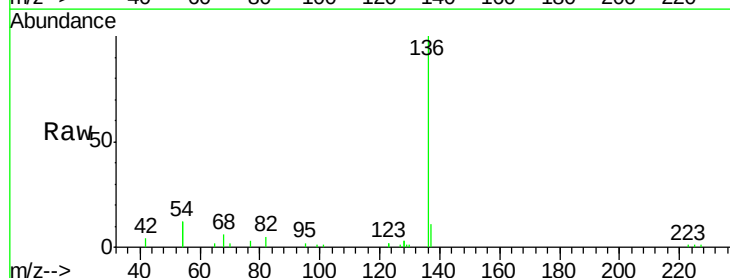
Ion Ratio Lower Upper

136 100

137 11.2 9.8 14.8

54 23.4 18.5 27.7

68 5.7 4.7 7.1

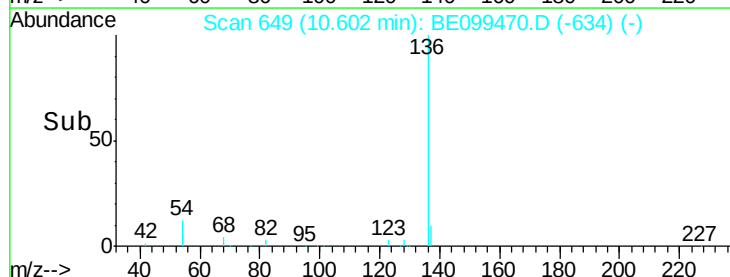
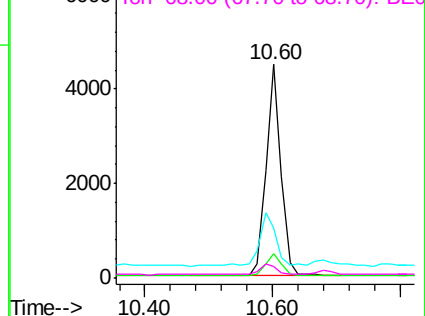


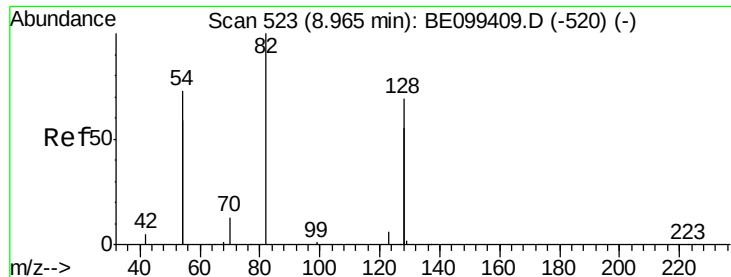
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.382 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

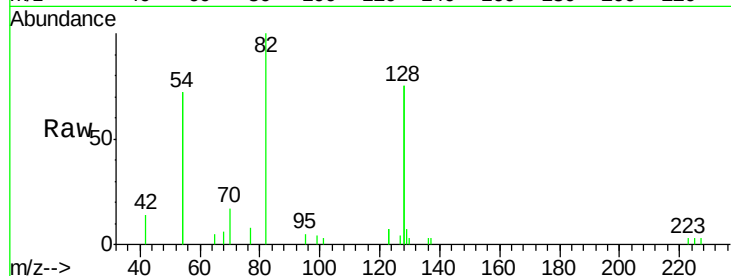
Tot Ion: 82 Resp: 2646

Ion Ratio Lower Upper

82 100

128 150.2 107.0 160.4

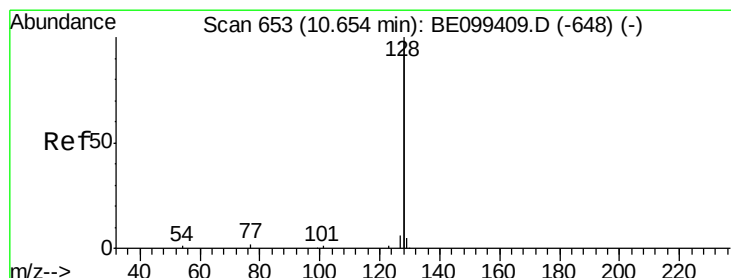
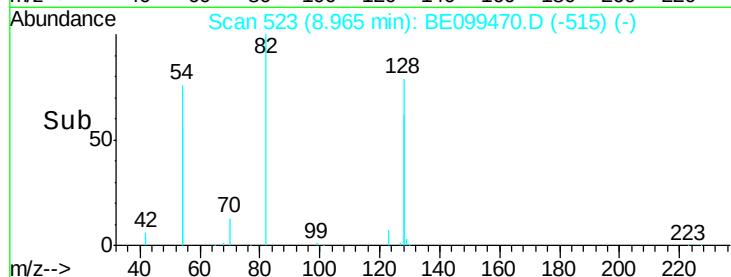
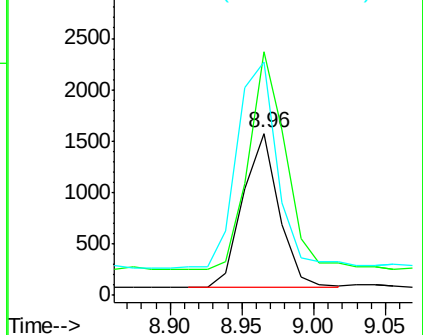
54 143.9 113.1 169.7



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



#9

Naphthalene

Concen: 0.025 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

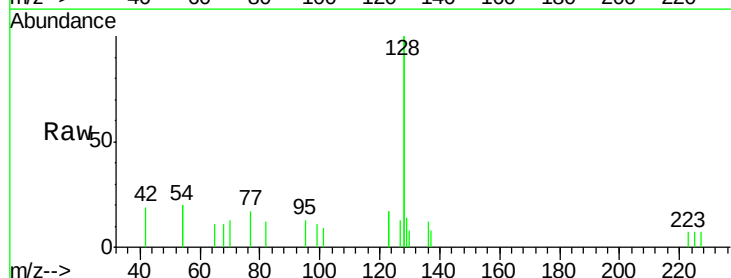
Tgt Ion: 128 Resp: 2046

Ion Ratio Lower Upper

128 100

129 6.9 2.4 3.6#

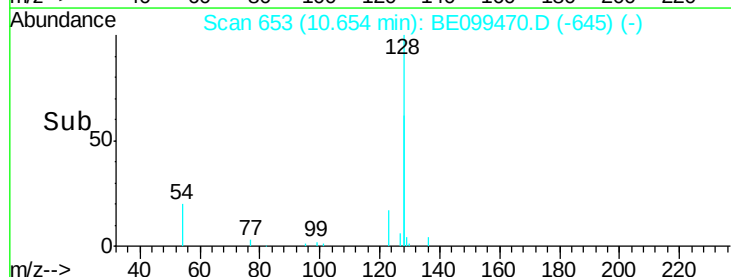
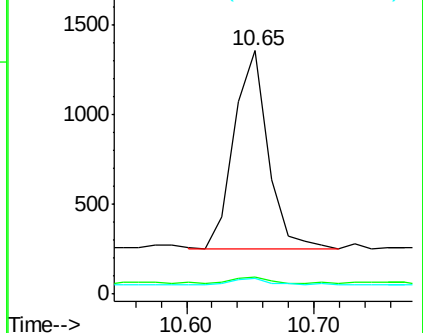
127 6.7 2.8 4.2#

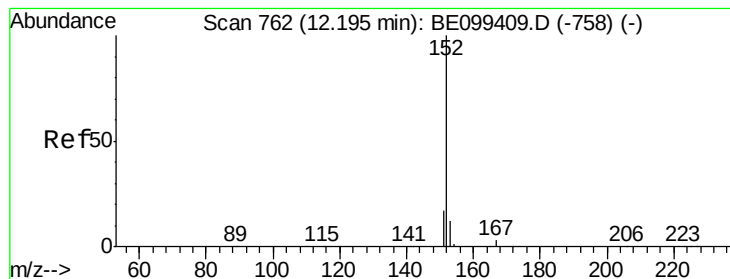


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

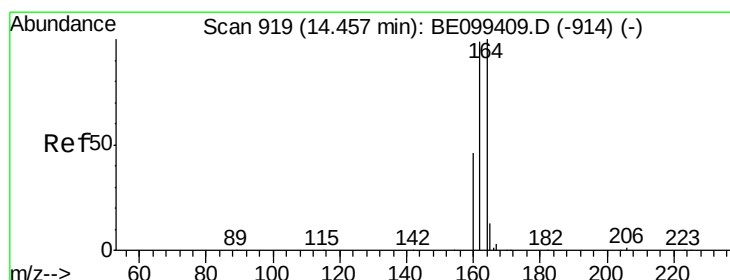
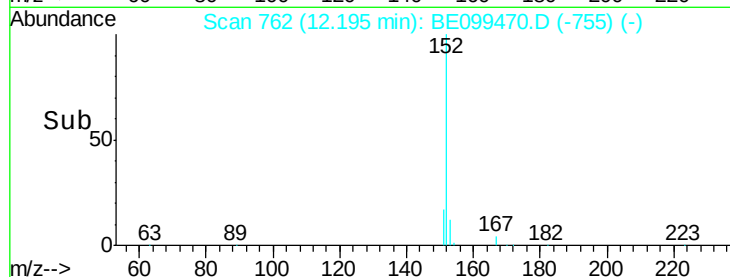
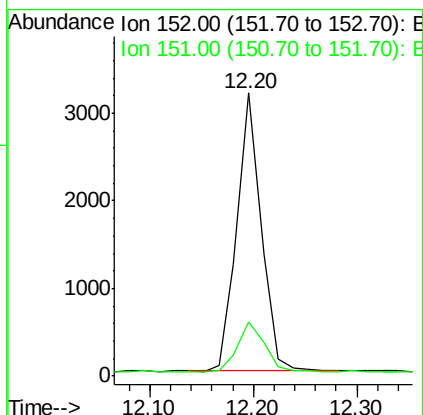
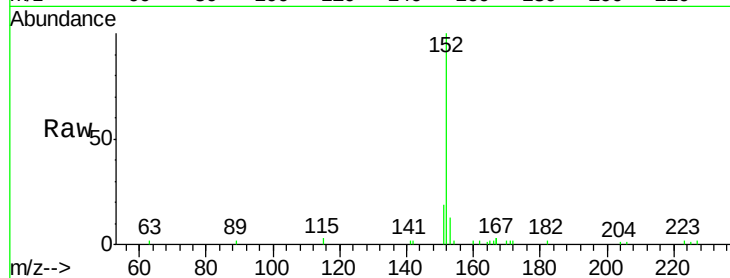




#11
 2-Methylnaphthalene-d10
 Concen: 0.388 ng
 RT: 12.20 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099470.D
 Acq: 1 May 2019 18:57

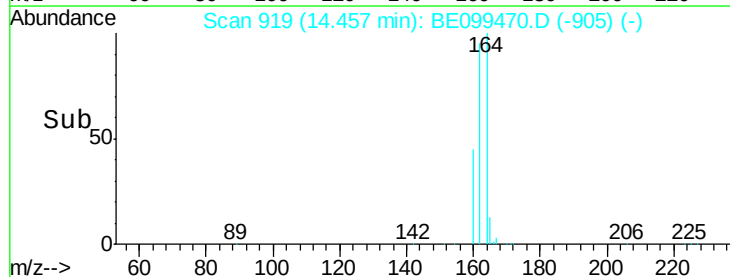
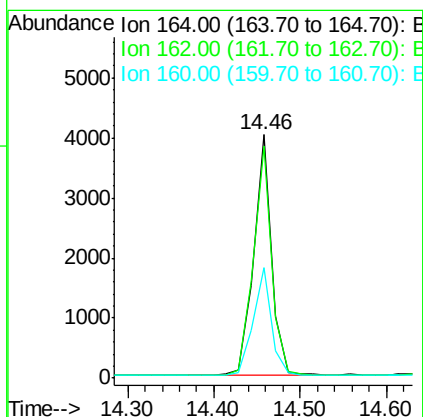
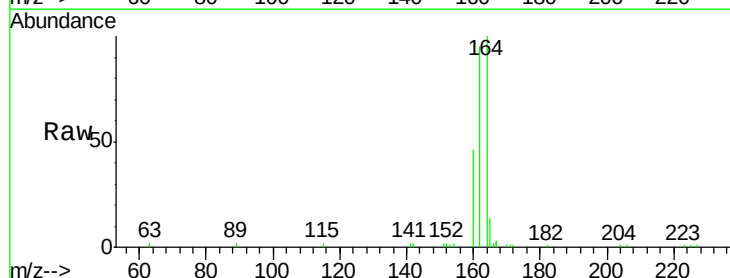
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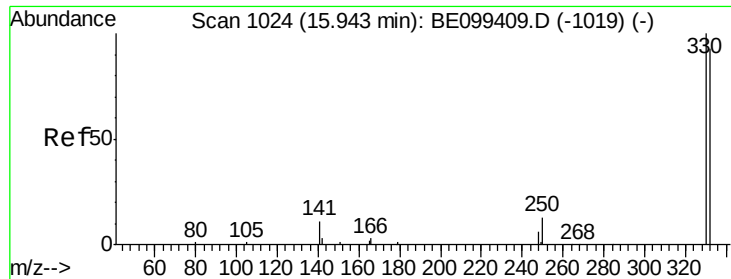
Tot Ion:152 Resp: 5161
 Ion Ratio Lower Upper
 152 100
 151 20.0 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099470.D
 Acq: 1 May 2019 18:57

Tgt Ion:164 Resp: 5757
 Ion Ratio Lower Upper
 164 100
 162 95.1 79.0 118.4
 160 45.5 37.0 55.4

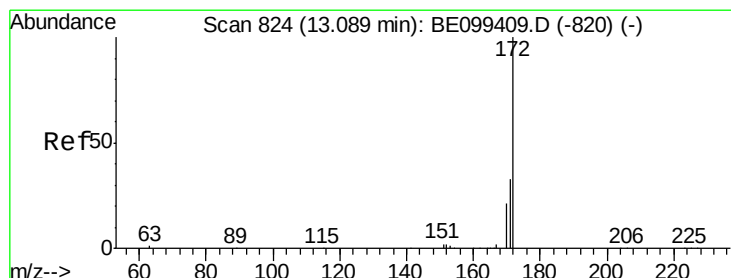
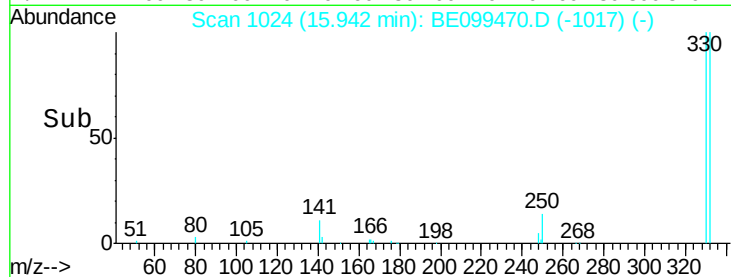
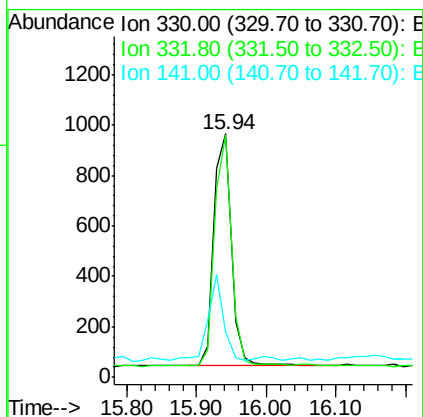
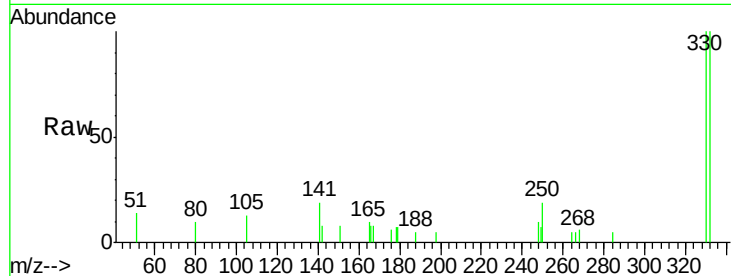




#14
 2,4,6-Tribromophenol
 Concen: 0.449 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099470.D
 Acq: 1 May 2019 18:57

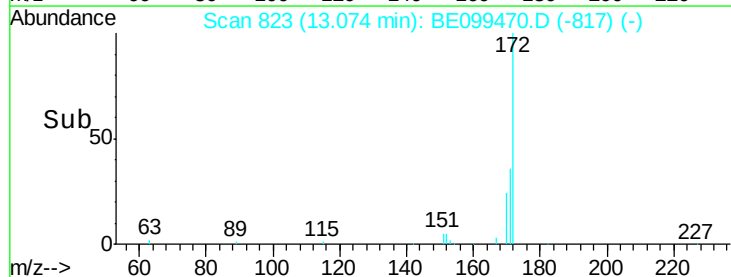
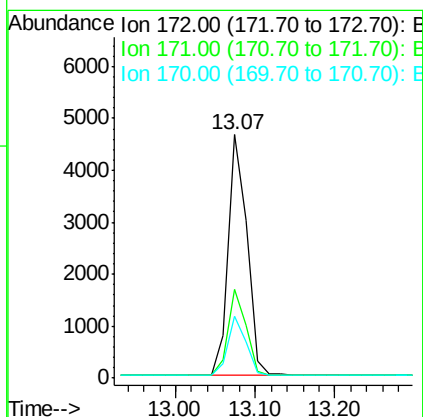
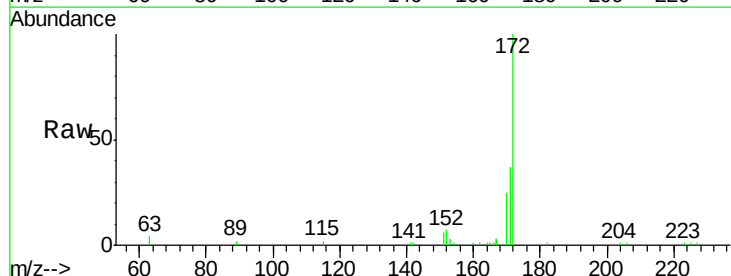
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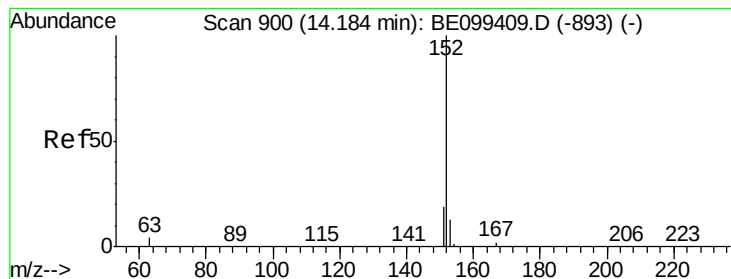
Tot Ion:330 Resp: 1628
 Ion Ratio Lower Upper
 330 100
 332 95.1 71.5 107.3
 141 31.1 24.0 36.0



#15
 2-Fluorobiphenyl
 Concen: 0.347 ng
 RT: 13.07 min Scan# 823
 Delta R.T. -0.01 min
 Lab File: BE099470.D
 Acq: 1 May 2019 18:57

Tgt Ion:172 Resp: 7618
 Ion Ratio Lower Upper
 172 100
 171 36.7 26.6 39.8
 170 25.3 17.0 25.6





#16

Acenaphthylene

Concen: 0.034 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

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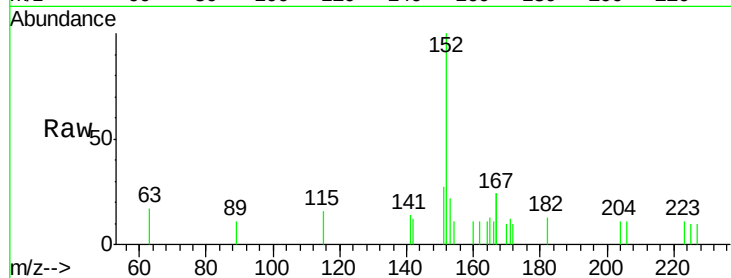
Tot Ion:152 Resp: 970

Ion Ratio Lower Upper

152 100

151 19.6 15.4 23.2

153 13.1 9.8 14.6



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

14.18

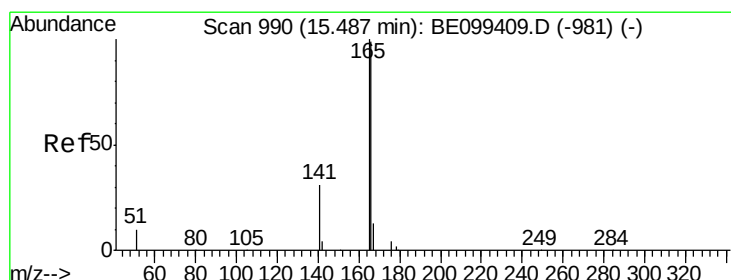
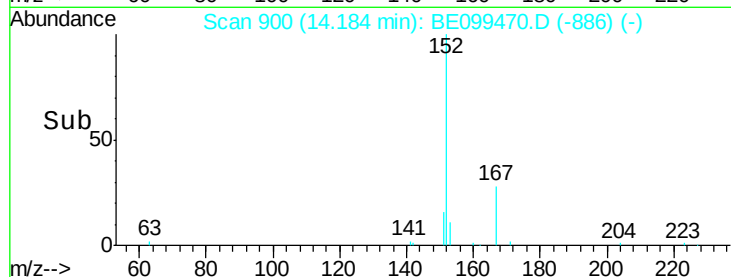
400

200

0

14.10 14.20 14.30

Time-->



#18

Fluorene

Concen: 0.020 ng

RT: 15.49 min Scan# 990

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

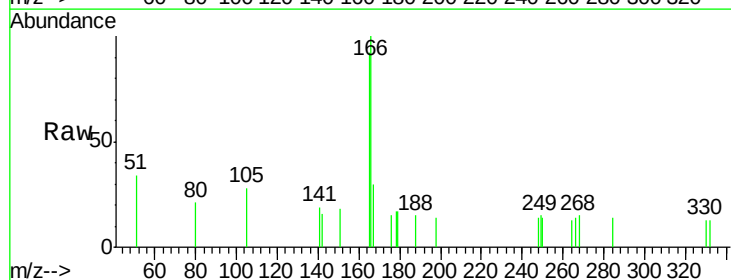
Tgt Ion:166 Resp: 484

Ion Ratio Lower Upper

166 100

165 93.6 80.3 120.5

167 22.3 10.7 16.1#



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

15.49

400

300

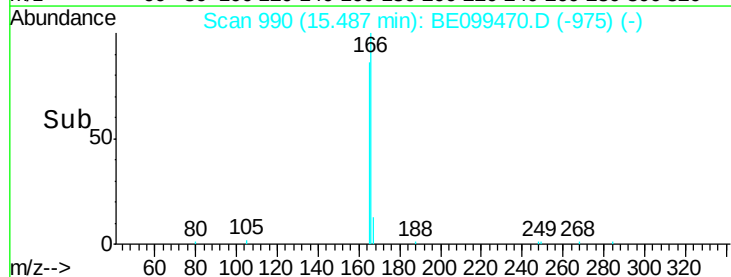
200

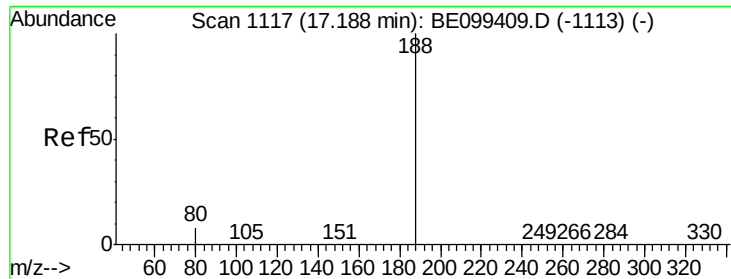
100

0

15.30 15.40 15.50 15.60

Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

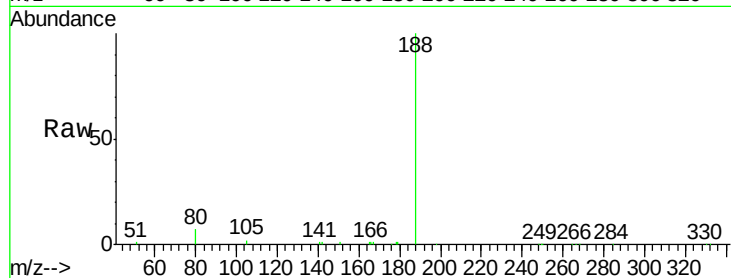
Tot Ion:188 Resp: 18885

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

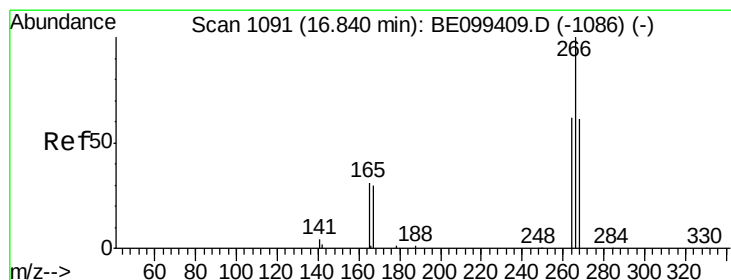
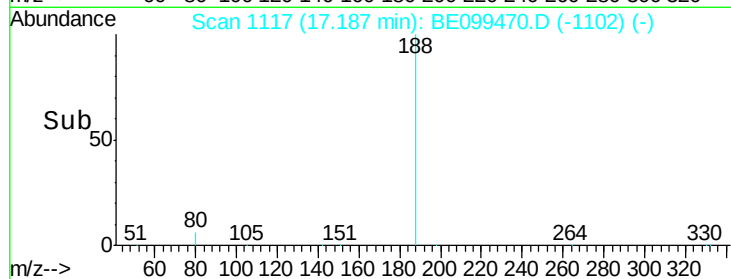
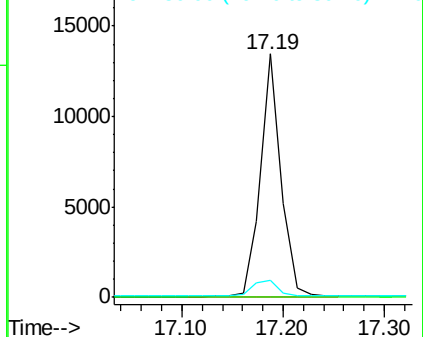
80 7.1 6.7 10.1



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: 0.225 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

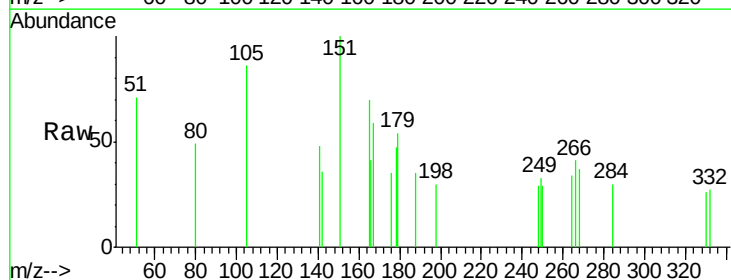
Tgt Ion:266 Resp: 54

Ion Ratio Lower Upper

266 100

264 84.5 50.8 76.2#

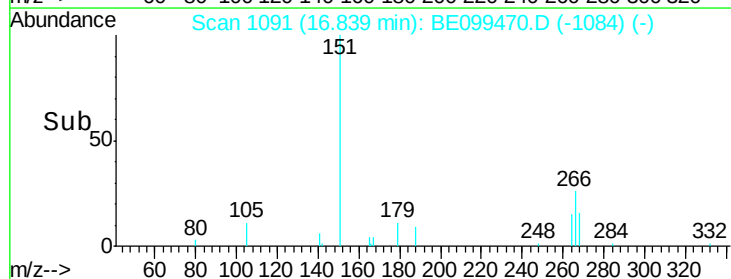
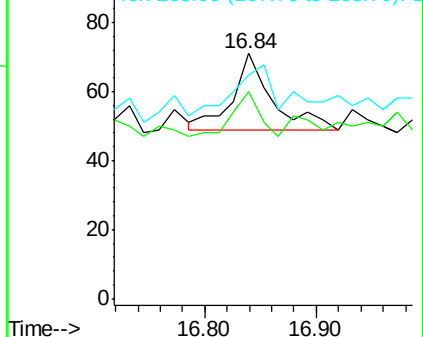
268 91.5 50.5 75.7#

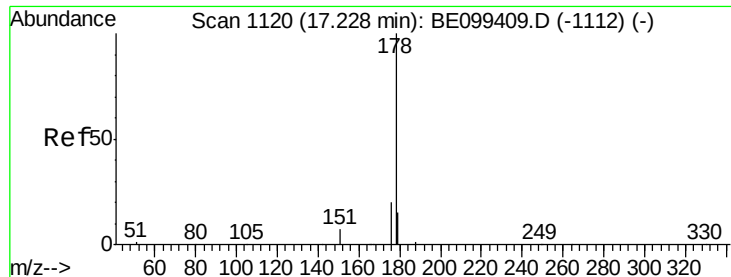


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.461 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

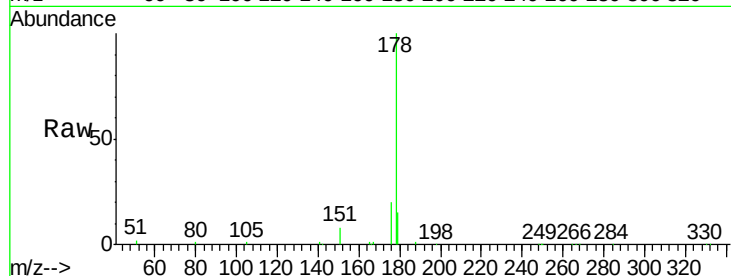
Tot Ion:178 Resp: 22473

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

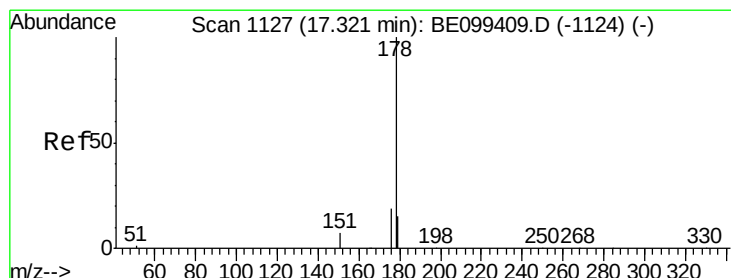
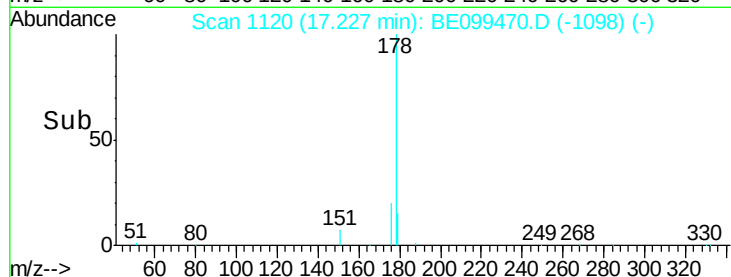
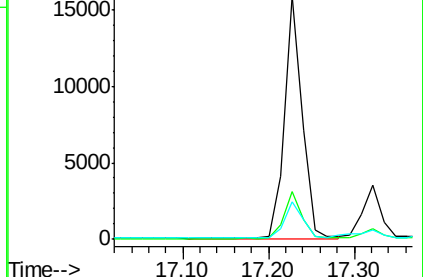
179 15.6 12.0 18.0



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: 0.104 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

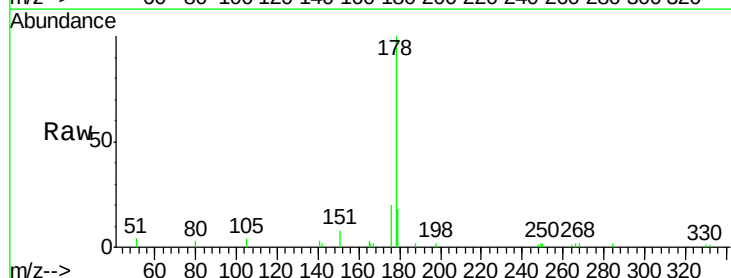
Tgt Ion:178 Resp: 4851

Ion Ratio Lower Upper

178 100

176 19.7 14.9 22.3

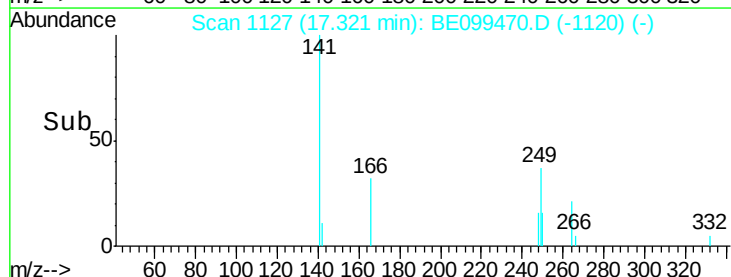
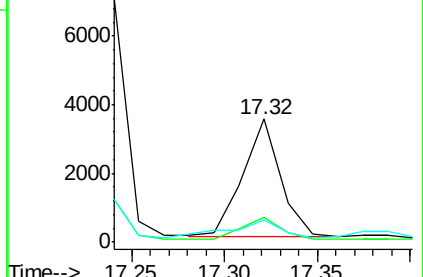
179 20.2 11.9 17.9#

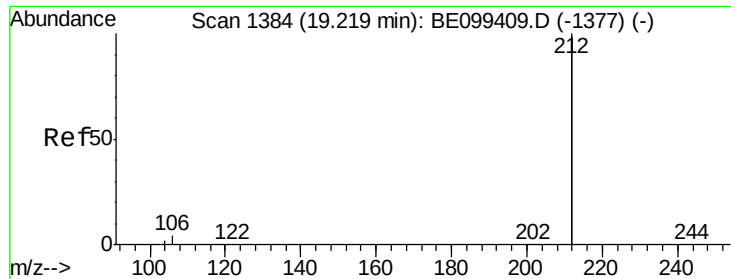


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

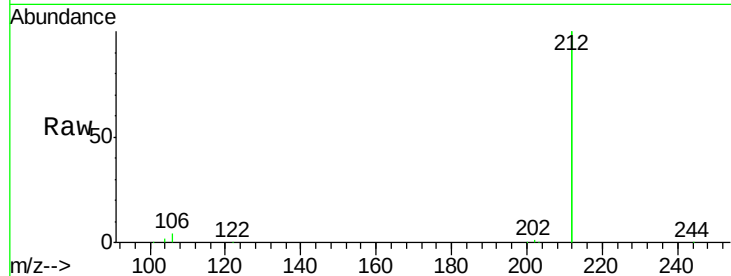
Tot Ion:212 Resp: 92930

Ion Ratio Lower Upper

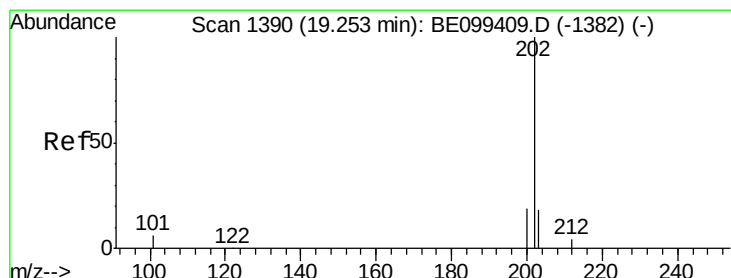
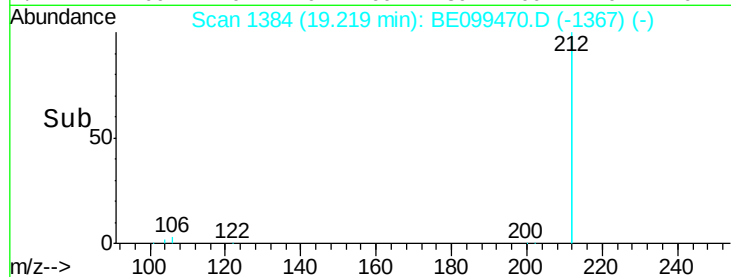
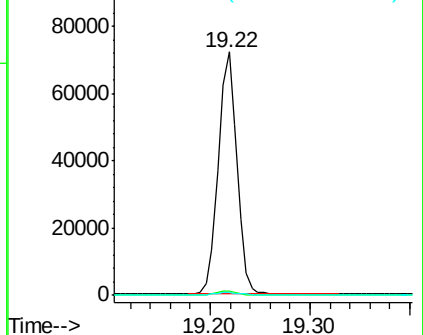
212 100

106 1.9 1.5 2.3

104 1.3 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: 1.010 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

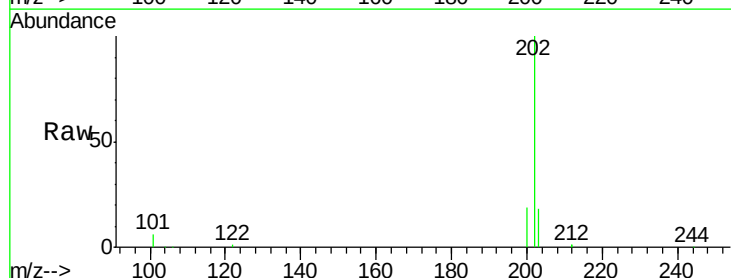
Tgt Ion:202 Resp: 73705

Ion Ratio Lower Upper

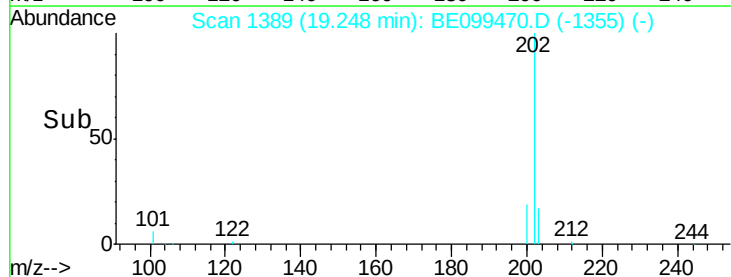
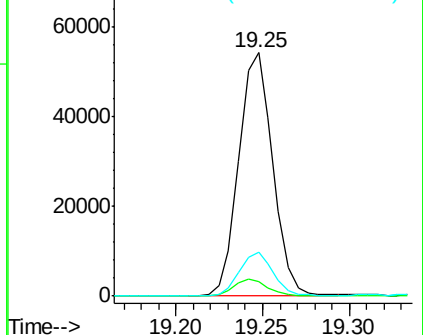
202 100

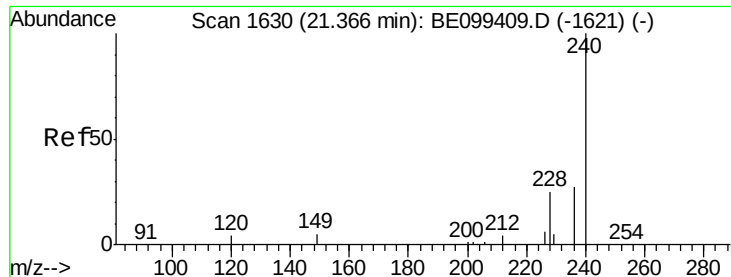
101 6.8 5.4 8.0

203 17.7 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: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

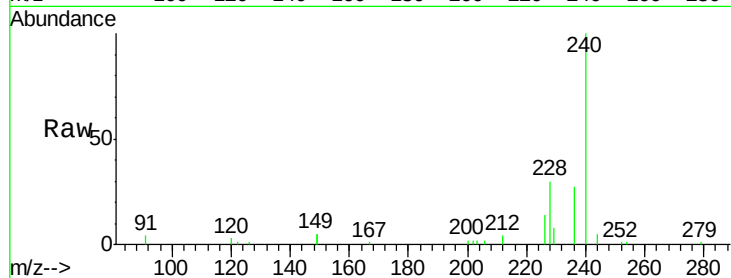
Tot Ion:240 Resp: 24825

Ion Ratio Lower Upper

240 100

120 3.2 4.0 6.0#

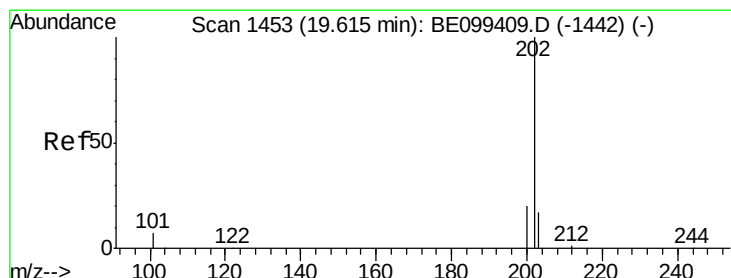
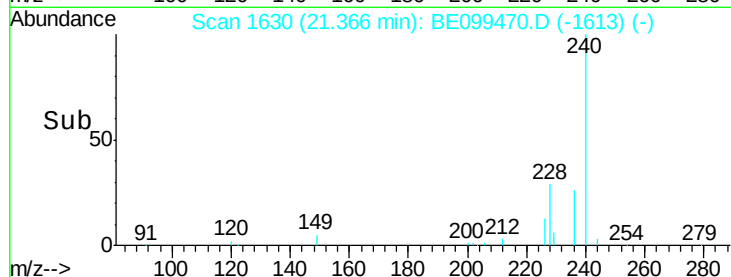
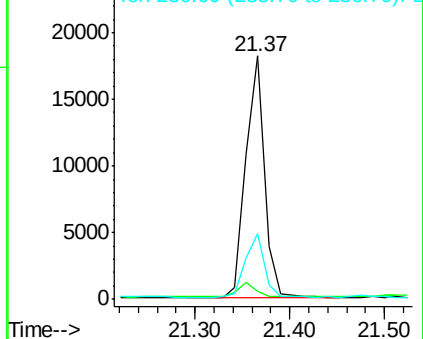
236 26.8 22.0 33.0



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: 1.079 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

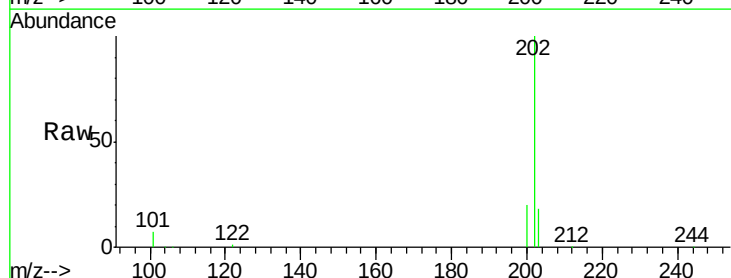
Tgt Ion:202 Resp: 69819

Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

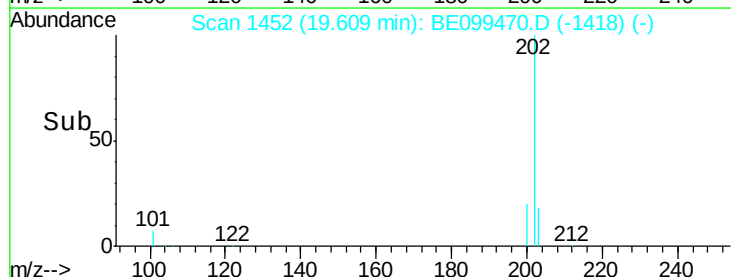
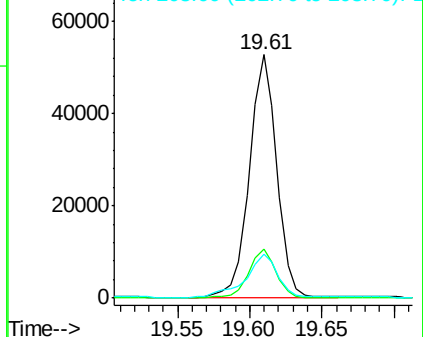
203 21.3 13.9 20.9#

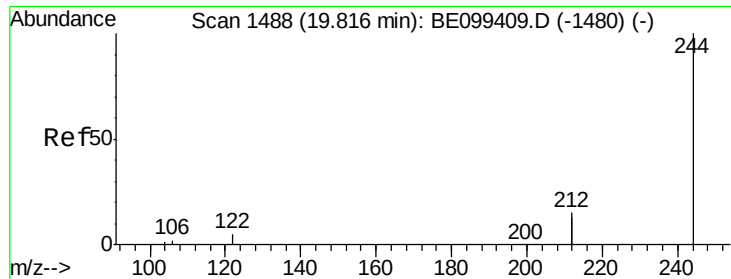


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.408 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

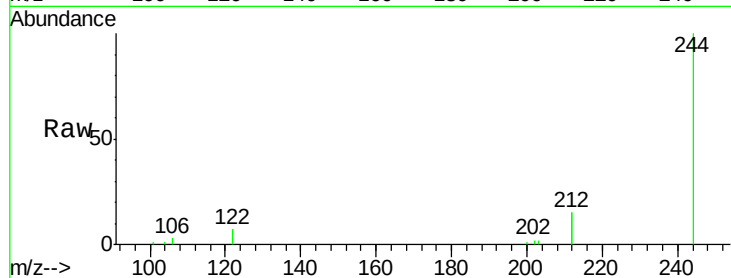
Tot Ion:244 Resp: 18559

Ion Ratio Lower Upper

244 100

212 29.7 23.2 34.8

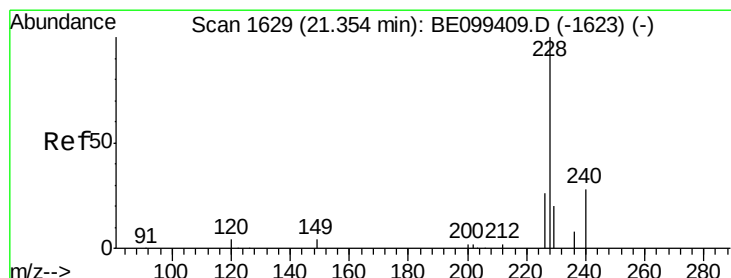
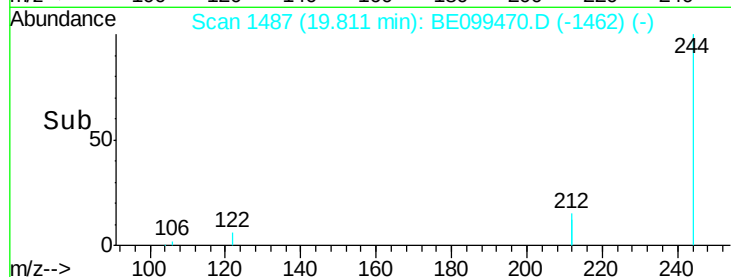
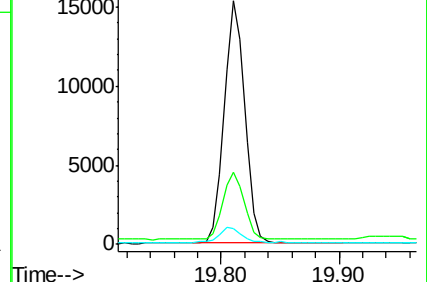
122 6.5 4.2 6.4#



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: 0.688 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

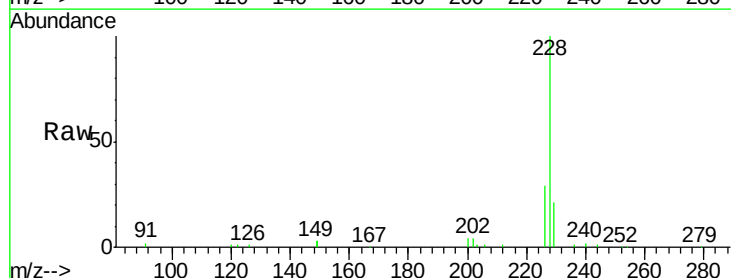
Tgt Ion:228 Resp: 54451

Ion Ratio Lower Upper

228 100

226 28.5 21.0 31.6

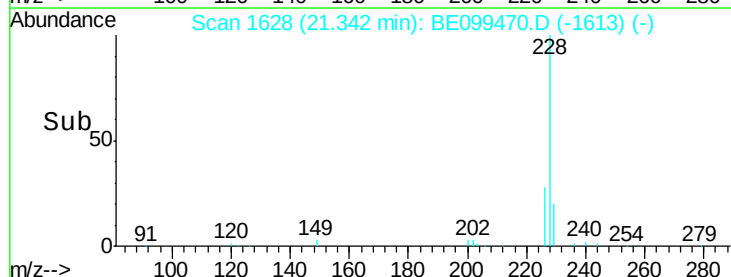
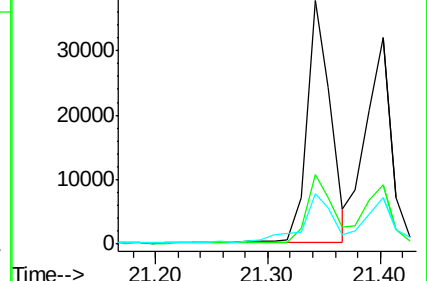
229 20.7 16.6 25.0

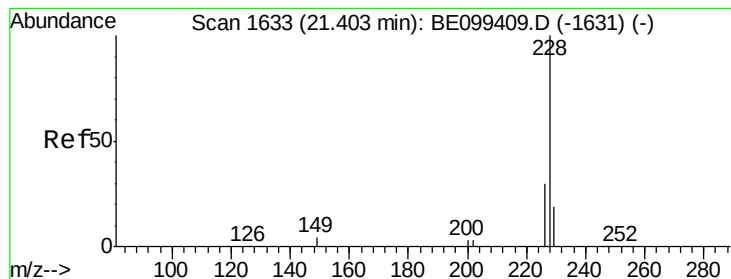


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.638 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

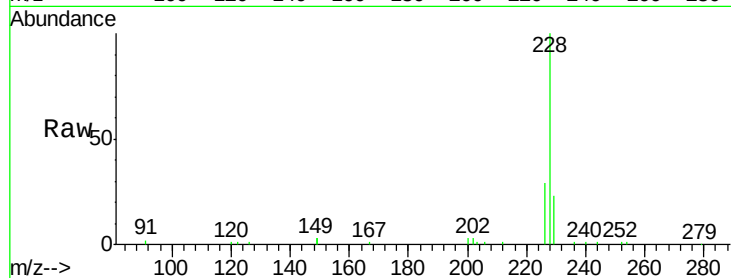
Tot Ion:228 Resp: 49417

Ion Ratio Lower Upper

228 100

226 28.9 24.0 36.0

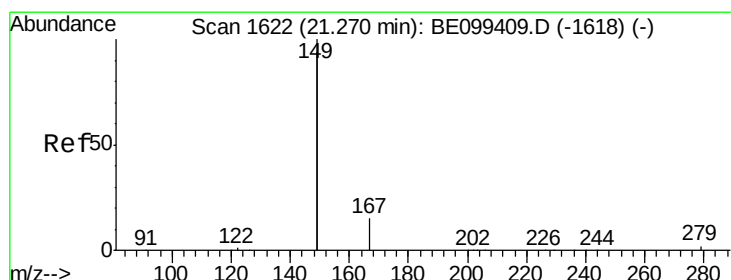
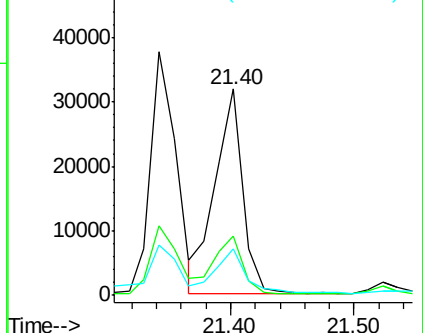
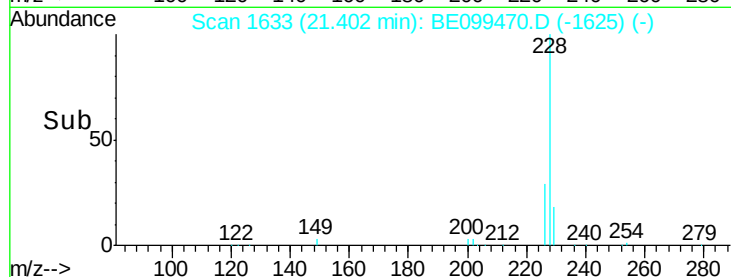
229 22.7 15.8 23.8



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: 0.084 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

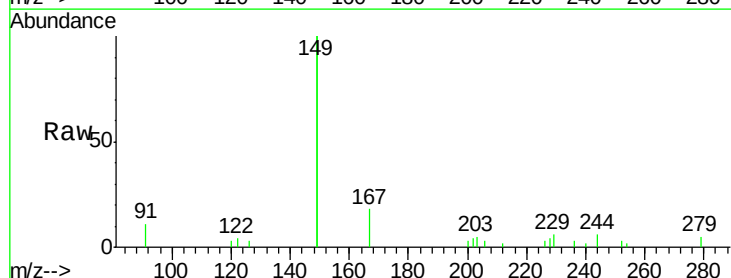
Tgt Ion:149 Resp: 17430

Ion Ratio Lower Upper

149 100

167 7.5 5.8 8.6

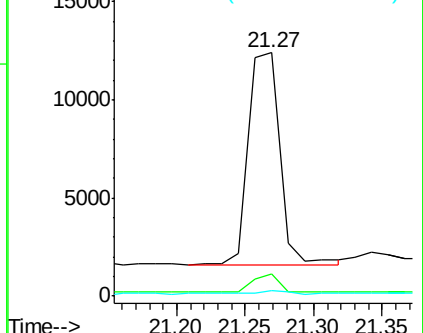
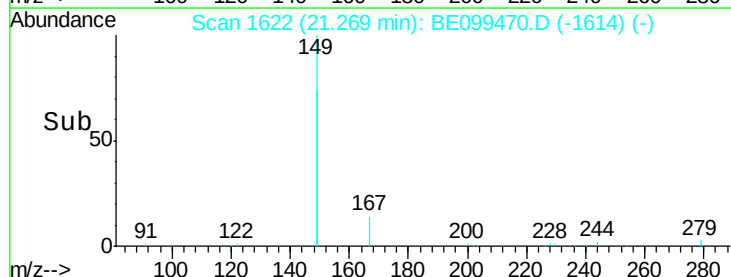
279 1.7 1.0 1.6#

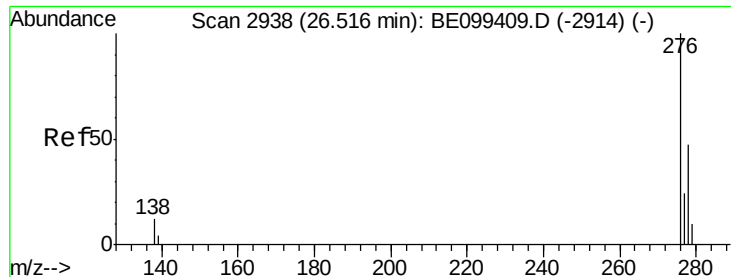


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.281 ng

RT: 26.50 min Scan# 2933

Delta R.T. -0.02 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

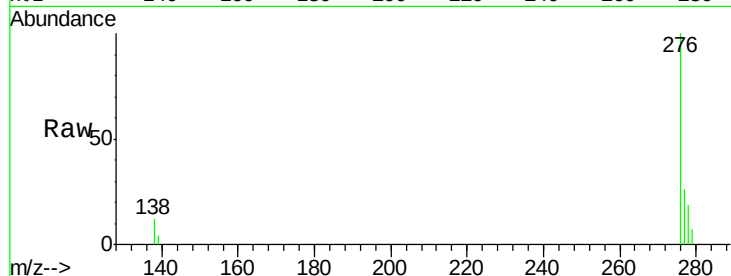
Tot Ion:276 Resp: 25677

Ion Ratio Lower Upper

276 100

138 10.7 10.2 15.2

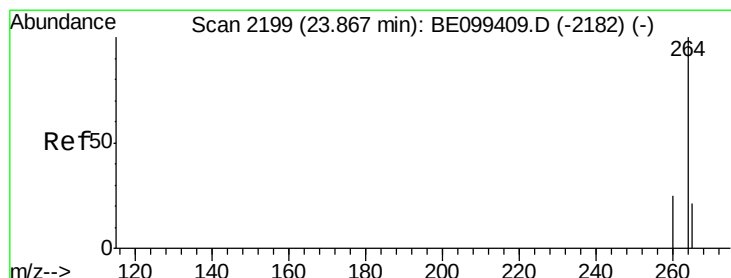
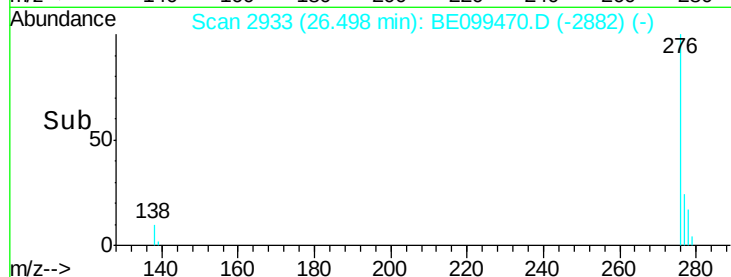
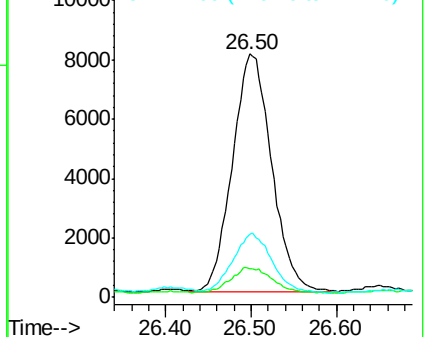
277 24.7 19.2 28.8



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: 23.86 min Scan# 2198

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

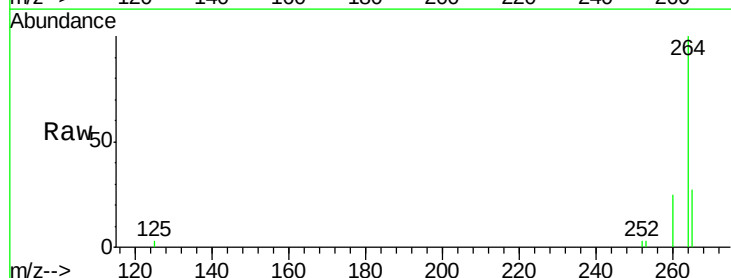
Tgt Ion:264 Resp: 28213

Ion Ratio Lower Upper

264 100

260 25.2 20.2 30.2

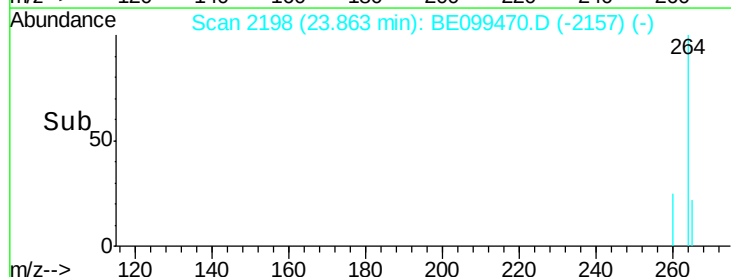
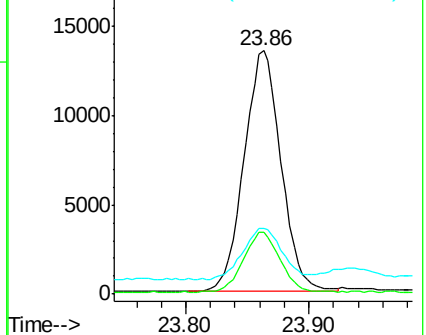
265 27.1 21.3 31.9

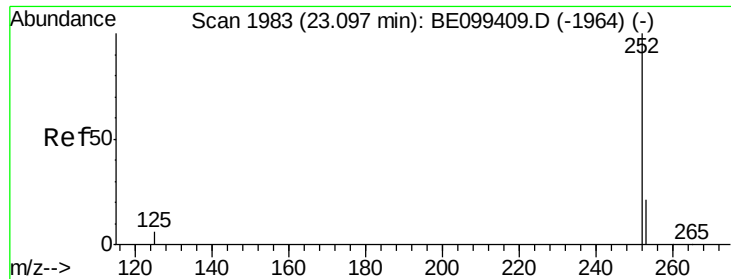


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.693 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.00 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

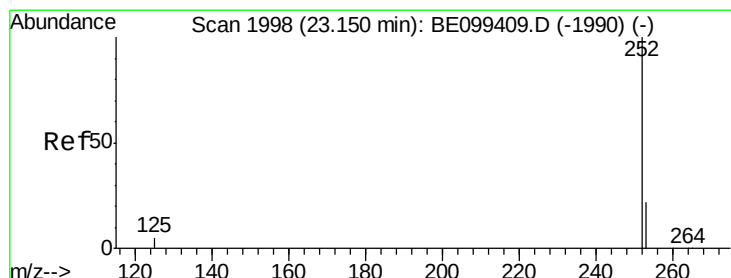
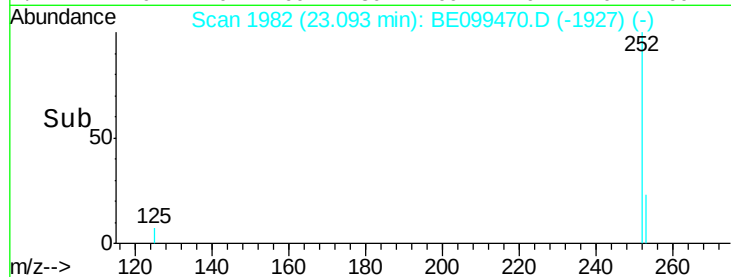
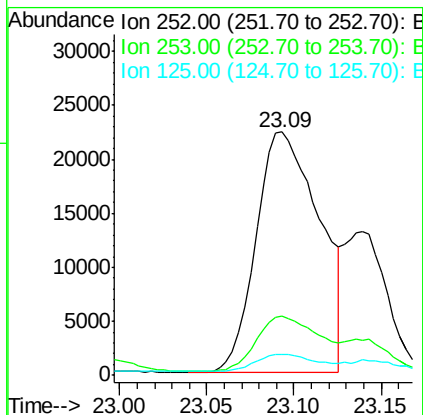
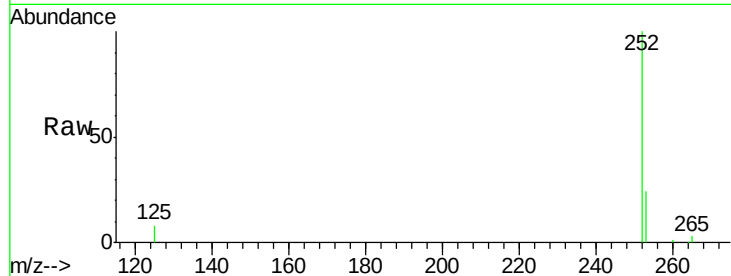
Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

Tot Ion:252	Resp:	56408
Ion Ratio	Lower	Upper
252	100	
253	24.3	18.1 27.1
125	8.4	5.6 8.4



#36

Benzo(k)fluoranthene

Concen: 0.719 ng

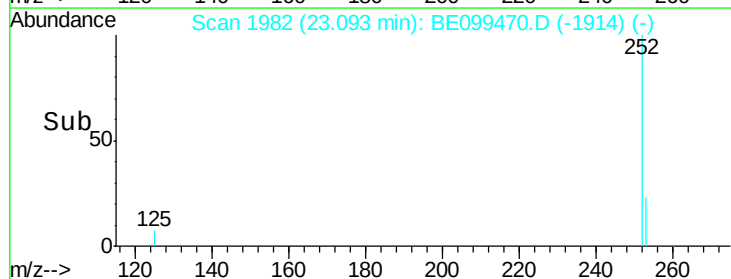
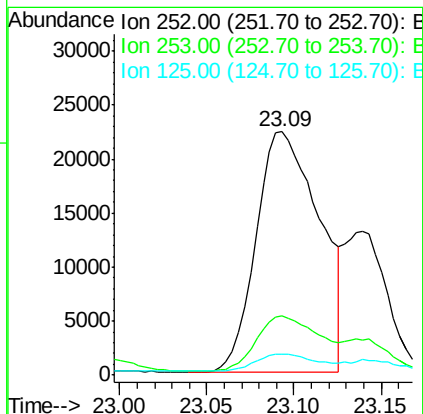
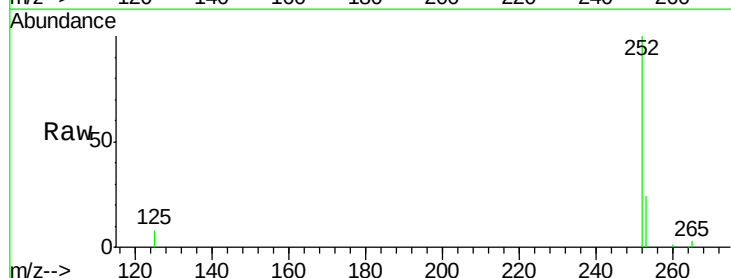
RT: 23.09 min Scan# 1982

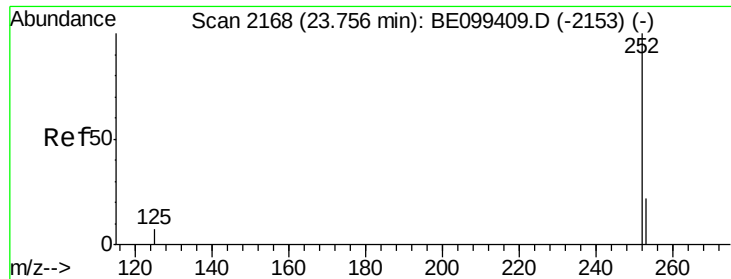
Delta R.T. -0.06 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Tgt Ion:252	Resp:	56408
Ion Ratio	Lower	Upper
252	100	
253	24.3	18.4 27.6
125	8.4	5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.542 ng

RT: 23.75 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

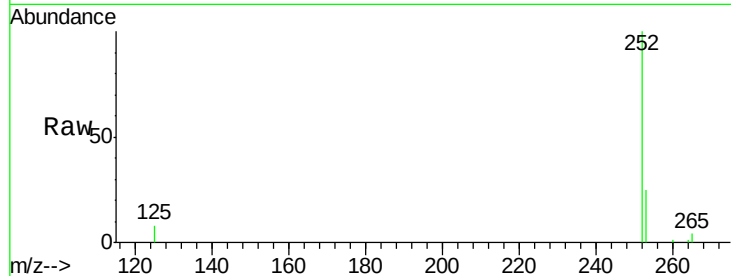
Tot Ion:252 Resp: 41658

Ion Ratio Lower Upper

252 100

253 24.7 18.9 28.3

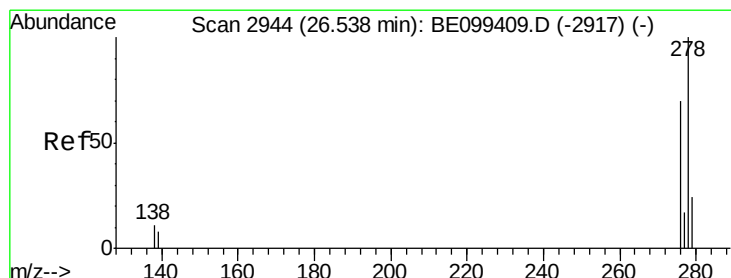
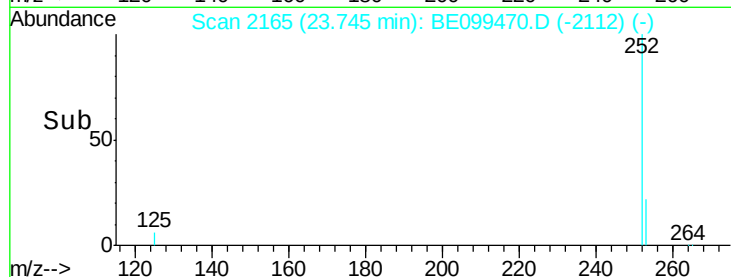
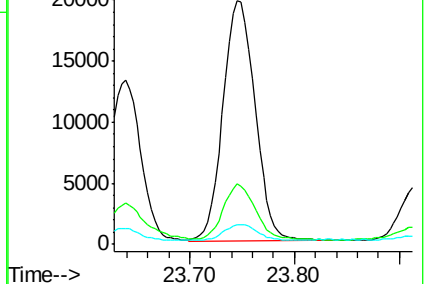
125 8.1 6.7 10.1



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: 0.092 ng

RT: 26.52 min Scan# 2938

Delta R.T. -0.02 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

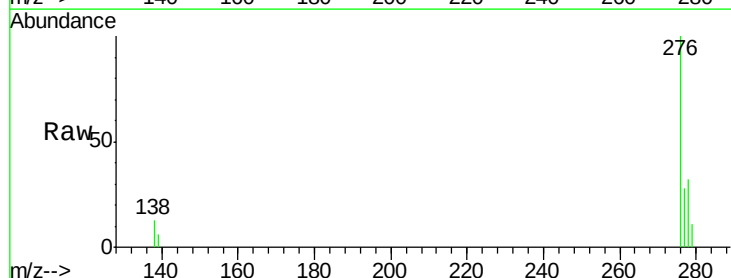
Tgt Ion:278 Resp: 7200

Ion Ratio Lower Upper

278 100

139 17.3 7.7 11.5#

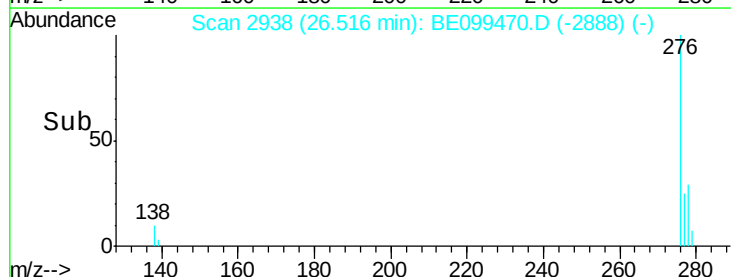
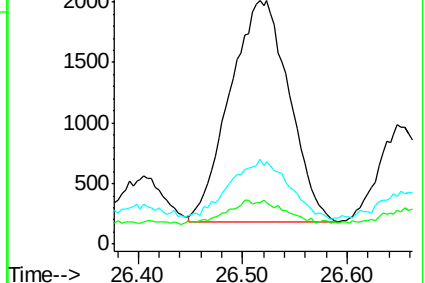
279 34.8 20.2 30.2#

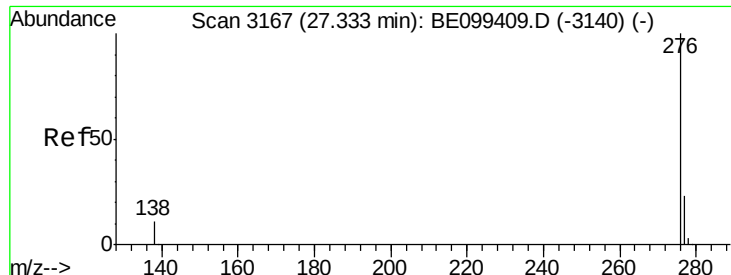


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.297 ng

RT: 27.32 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BE099470.D

Acq: 1 May 2019 18:57

Instrument :

BNA_E

ClientSampleId :

PST-001-B203-042519

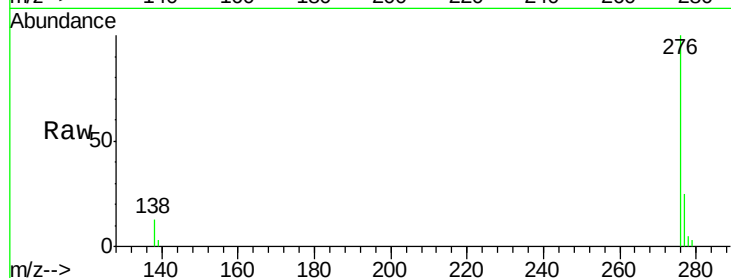
Tot Ion: 276 Resp: 23422

Ion Ratio Lower Upper

276 100

277 25.2 19.5 29.3

138 13.4 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

