

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050119\
 Data File : BE099465.D
 Acq On : 1 May 2019 15:54
 Operator : JU/SJ
 Sample : K2589-16
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B187-042419

Quant Time: May 02 04:14:09 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	1832	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	7032	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6078	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19535	0.40	ng	0.00
27) Chrysene-d12	21.37	240	23026	0.40	ng	0.00
34) Perylene-d12	23.86	264	26875	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	1224	0.24	ng	0.00
5) Phenol-d6	6.96	99	1929	0.29	ng	-0.01
8) Nitrobenzene-d5	8.96	82	1469	0.22	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	2828	0.22	ng	0.00
14) 2,4,6-Tribromophenol	15.93	330	955	0.25	ng	-0.01
15) 2-Fluorobiphenyl	13.07	172	4284	0.18	ng	-0.02
25) Fluoranthene-d10	19.22	212	51074	0.19	ng	0.00
29) Terphenyl-d14	19.81	244	10133	0.24	ng	0.00

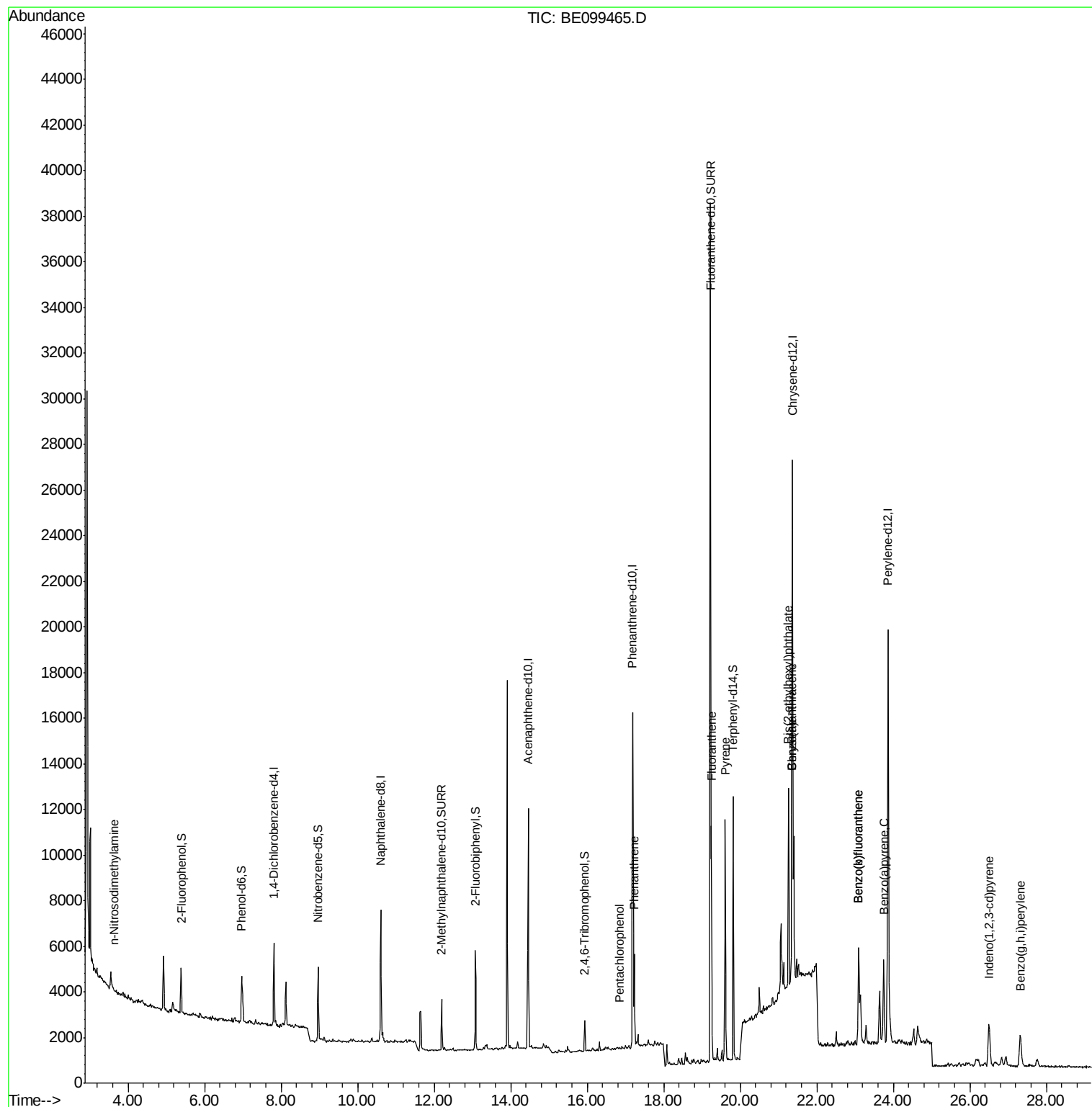
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.62	42	64	0.042	ng	# 1
22) Pentachlorophenol	16.84	266	20	0.219	ng	# 66
23) Phenanthrene	17.23	178	3940	0.078	ng	95
26) Fluoranthene	19.25	202	9333	0.124	ng	99
28) Pyrene	19.61	202	9841	0.164	ng	97
30) Benzo(a)anthracene	21.34	228	5718	0.078	ng	92
31) Chrysene	21.34	228	3783	0.053	ng	95
32) Bis(2-ethylhexyl)phthalate	21.26	149	12600	0.050	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.50	276	3647	0.043	ng	98
35) Benzo(b)fluoranthene	23.09	252	7619	0.098	ng	# 69
36) Benzo(k)fluoranthene	23.09	252	7619	0.102	ng	# 70
37) Benzo(a)pyrene	23.75	252	5422	0.074	ng	# 73
39) Benzo(a,h,i)perylene	27.32	276	3817	0.051	ng	# 87

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

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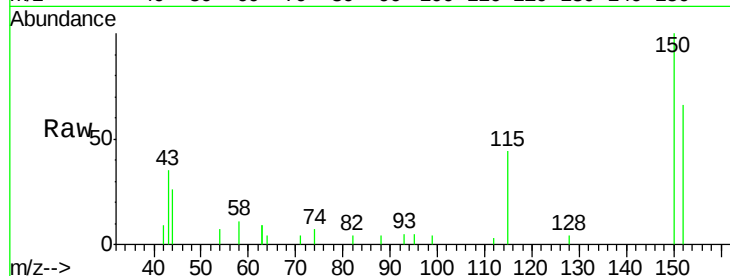


#1

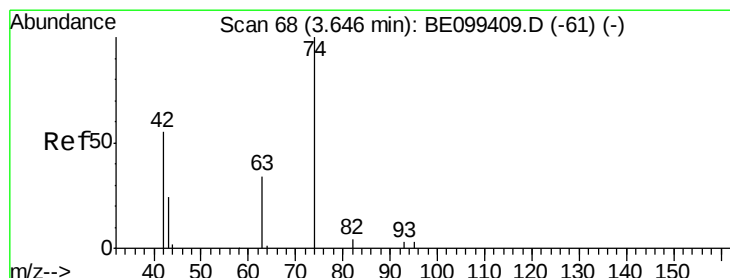
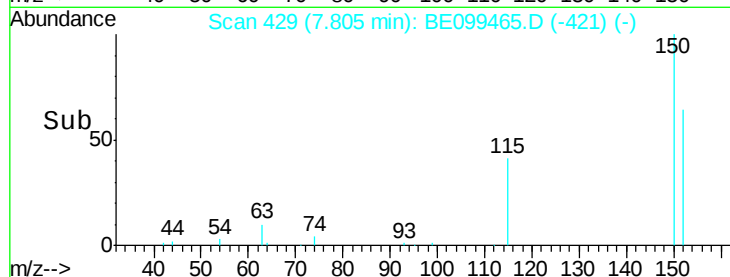
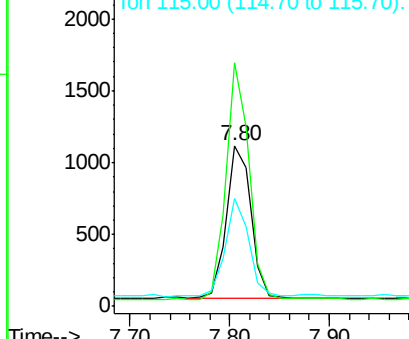
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.80 min Scan# 429
Delta R.T. -0.01 min
Lab File: BE099465.D
Acq: 1 May 2019 15:54

Instrument :
BNA_E
ClientSampleId :
PST-001-B187-042419

Tot Ion:152 Resp: 1832
Ion Ratio Lower Upper
152 100
150 151.5 104.8 157.2
115 66.8 46.6 69.8



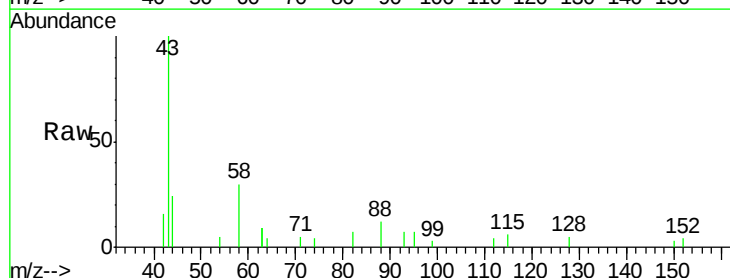
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



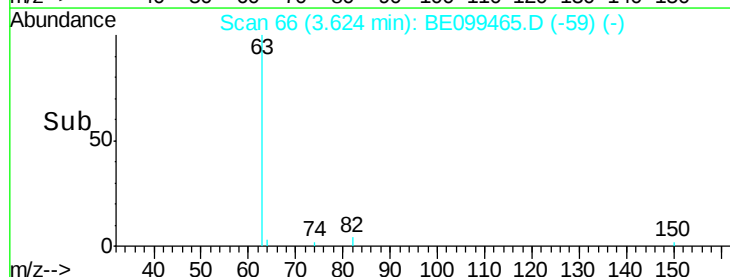
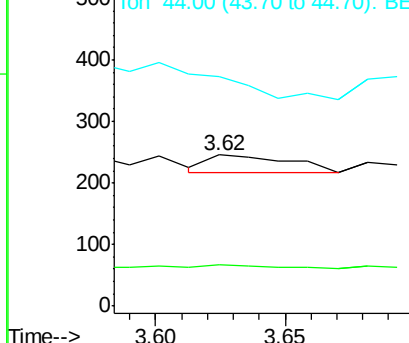
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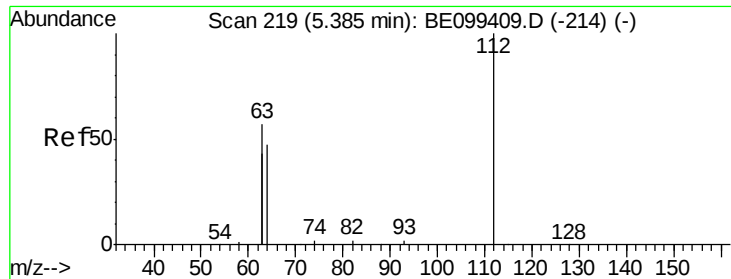
n-Nitrosodimethylamine
Concen: 0.042 ng
RT: 3.62 min Scan# 66
Delta R.T. -0.02 min
Lab File: BE099465.D
Acq: 1 May 2019 15:54

Tgt Ion: 42 Resp: 64
Ion Ratio Lower Upper
42 100
74 23.4 141.6 212.4#
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.242 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

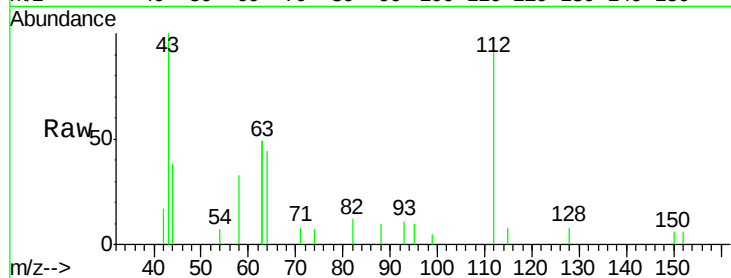
Tot Ion:112 Resp: 1224

Ion Ratio Lower Upper

112 100

64 57.5 47.4 71.0

63 127.0 104.3 156.5



Abundance Ion 112.00 (111.70 to 112.70): BE099409.D (-214) (-)

Ion 64.00 (63.70 to 64.70): BE099409.D (-214) (-)

Ion 63.00 (62.70 to 63.70): BE099409.D (-214) (-)

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

500

0

Time-->

5.30 5.35 5.40 5.45

5.39

1000

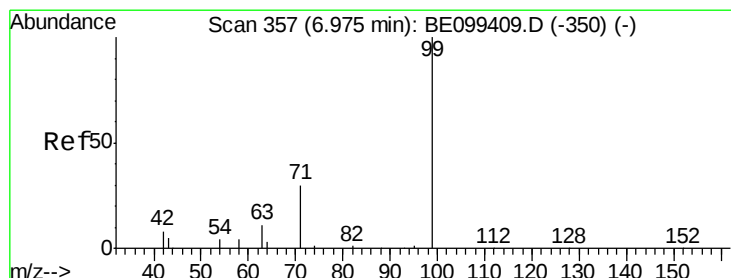
500

0

Time-->

5.30 5.35 5.40 5.45

5.39



#5

Phenol-d6

Concen: 0.286 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

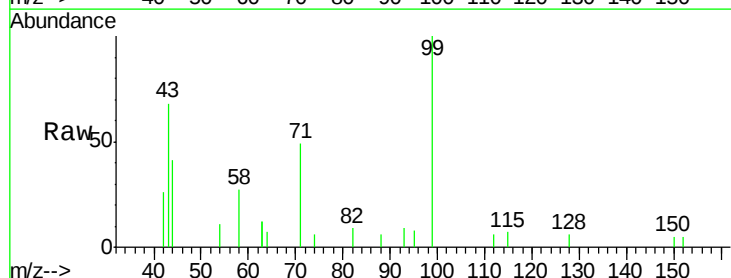
Tgt Ion: 99 Resp: 1929

Ion Ratio Lower Upper

99 100

42 15.3 14.9 22.3

71 38.6 33.0 49.6



Abundance Ion 99.00 (98.70 to 99.70): BE099409.D (-350) (-)

Ion 42.00 (41.70 to 42.70): BE099409.D (-350) (-)

Ion 71.00 (70.70 to 71.70): BE099409.D (-350) (-)

Time-->

6.90 6.95 7.00

6.96

1000

500

0

Time-->

6.90 6.95 7.00

6.96

1000

500

0

Time-->

6.90 6.95 7.00

6.96

1000

500

0

Time-->

6.90 6.95 7.00

6.96

1000

500

0

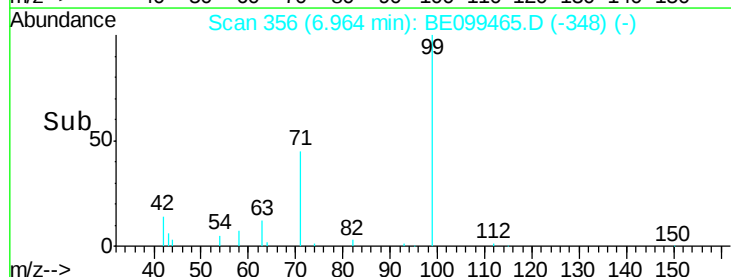
Time-->

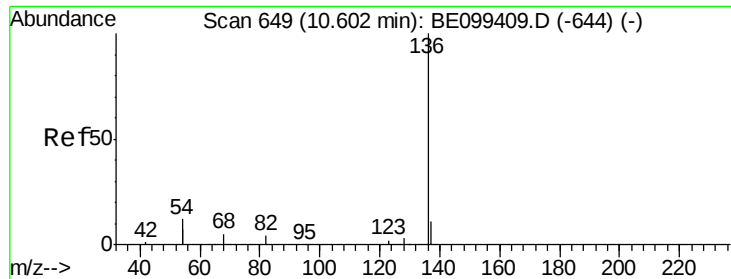
6.90 6.95 7.00

6.96

1000

500





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

Tot Ion:136 Resp: 7032

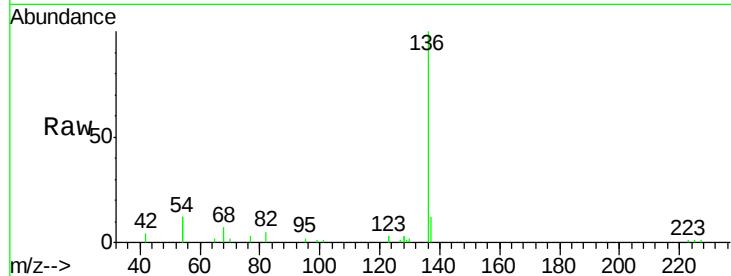
Ion Ratio Lower Upper

136 100

137 12.0 9.8 14.8

54 23.9 18.5 27.7

68 6.6 4.7 7.1

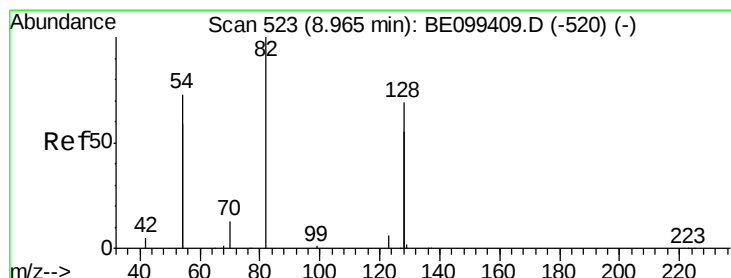
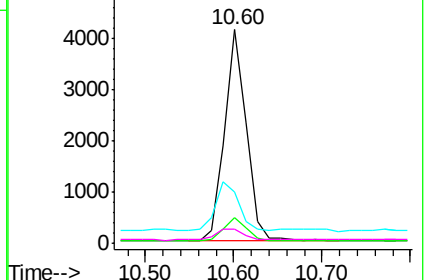
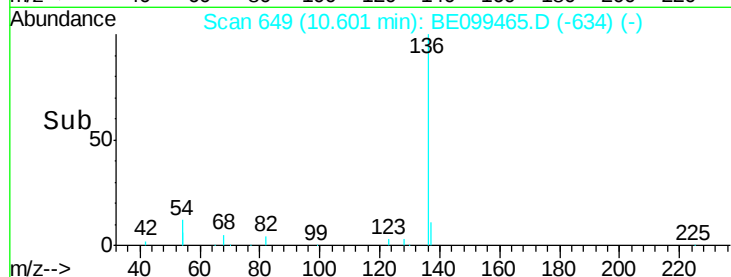


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.223 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

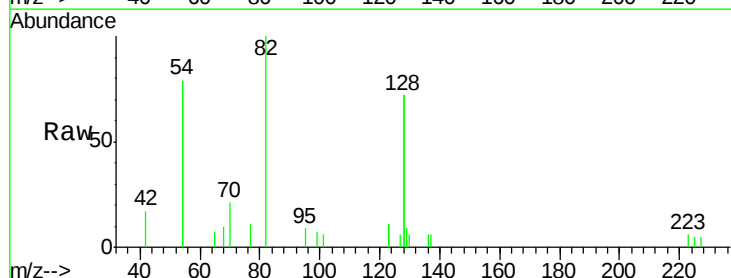
Tgt Ion: 82 Resp: 1469

Ion Ratio Lower Upper

82 100

128 145.0 107.0 160.4

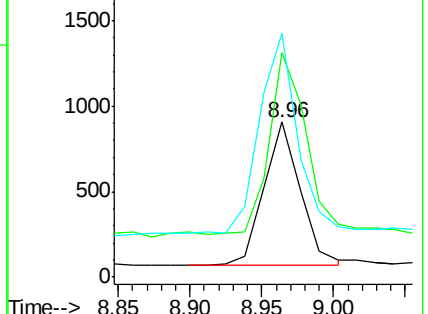
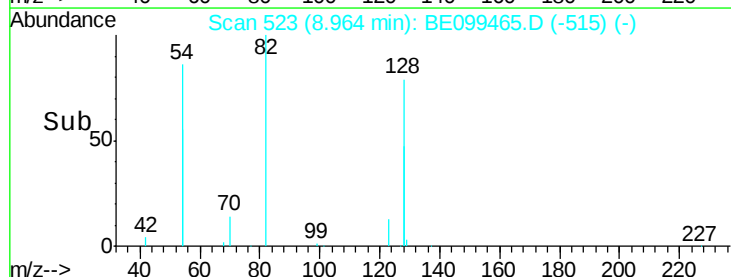
54 157.3 113.1 169.7

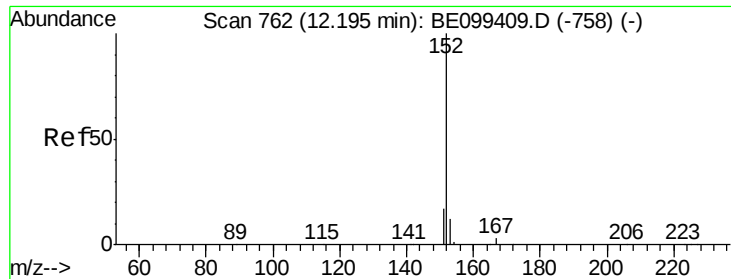


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

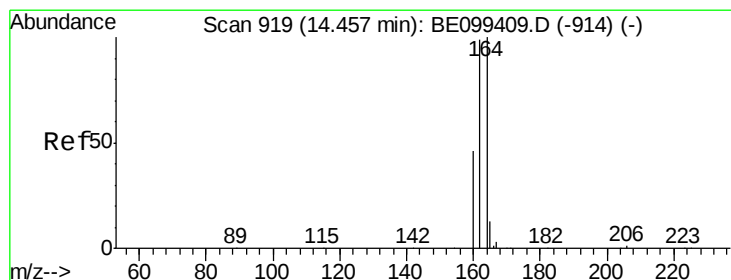
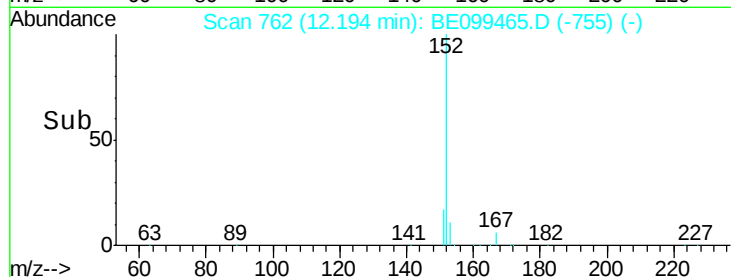
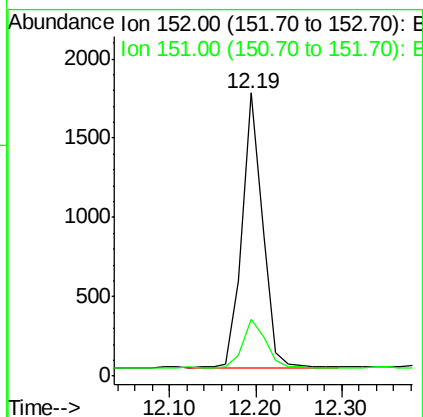
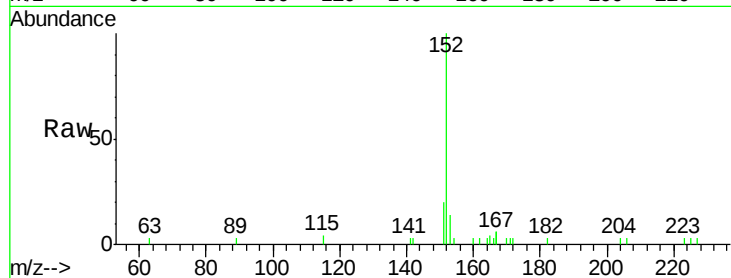




#11
 2-Methylnaphthalene-d10
 Concen: 0.223 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099465.D
 Acq: 1 May 2019 15:54

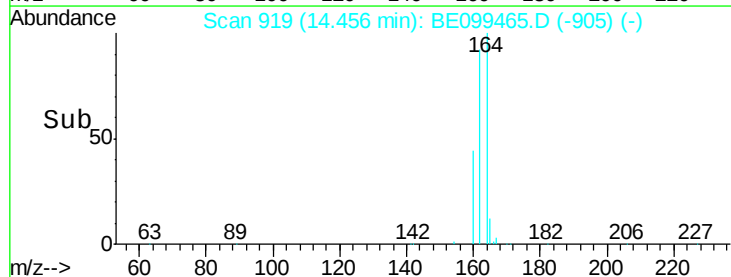
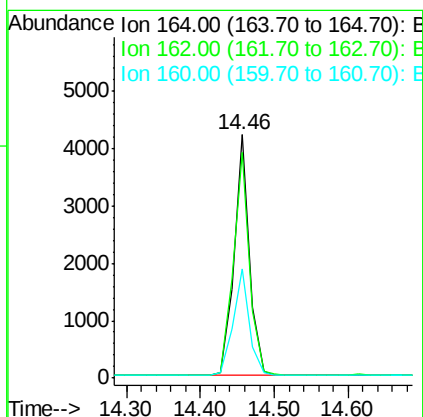
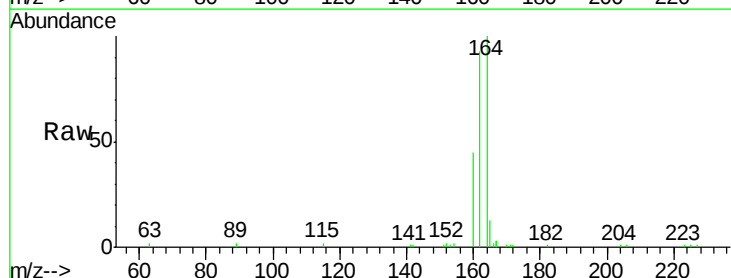
Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B187-042419

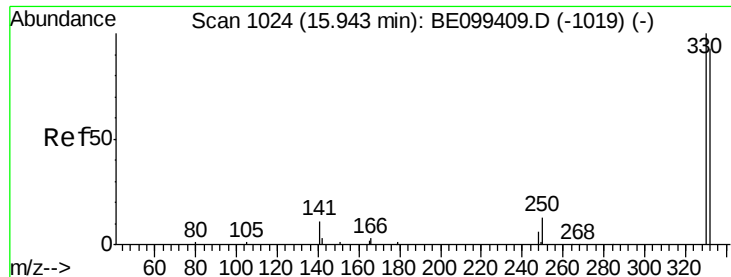
Tot Ion:152 Resp: 2828
 Ion Ratio Lower Upper
 152 100
 151 19.8 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099465.D
 Acq: 1 May 2019 15:54

Tgt Ion:164 Resp: 6078
 Ion Ratio Lower Upper
 164 100
 162 92.5 79.0 118.4
 160 44.7 37.0 55.4

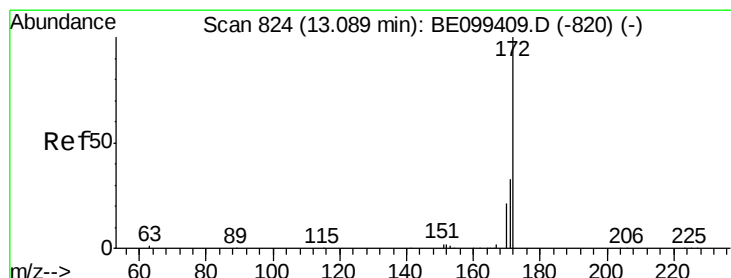
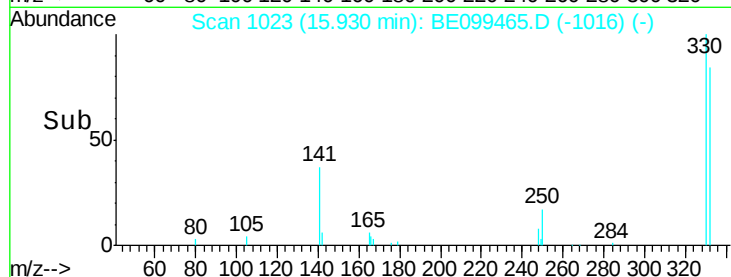
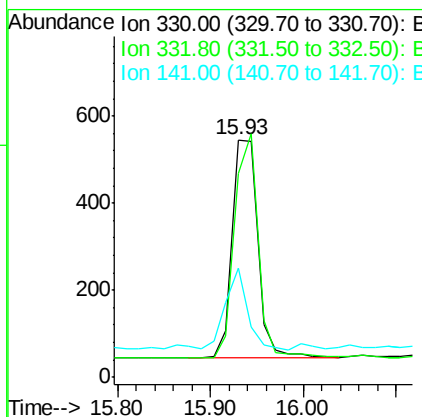
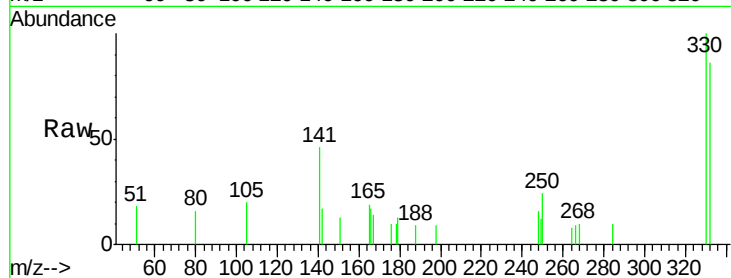




#14
2,4,6-Tribromophenol
Concen: 0.249 ng
RT: 15.93 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BE099465.D
Acq: 1 May 2019 15:54

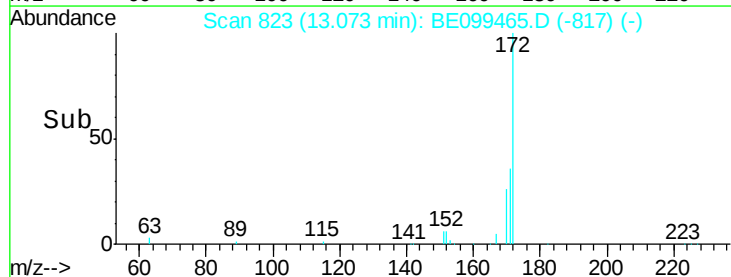
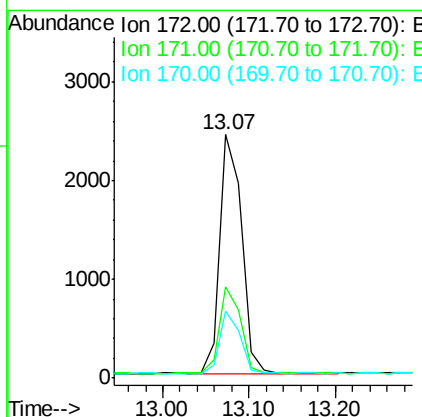
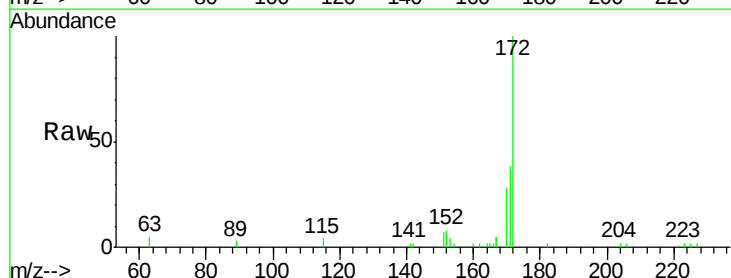
Instrument :
BNA_E
ClientSampleId :
PST-001-B187-042419

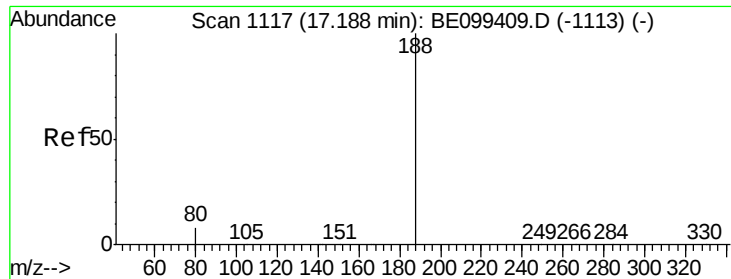
Tot Ion:330 Resp: 955
Ion Ratio Lower Upper
330 100
332 95.5 71.5 107.3
141 32.3 24.0 36.0



#15
2-Fluorobiphenyl
Concen: 0.185 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.02 min
Lab File: BE099465.D
Acq: 1 May 2019 15:54

Tgt Ion:172 Resp: 4284
Ion Ratio Lower Upper
172 100
171 37.6 26.6 39.8
170 27.5 17.0 25.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

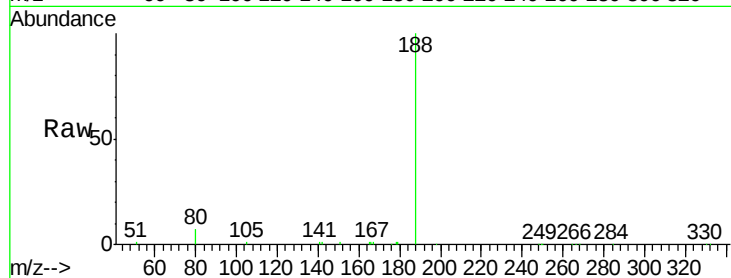
Tot Ion:188 Resp: 19535

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

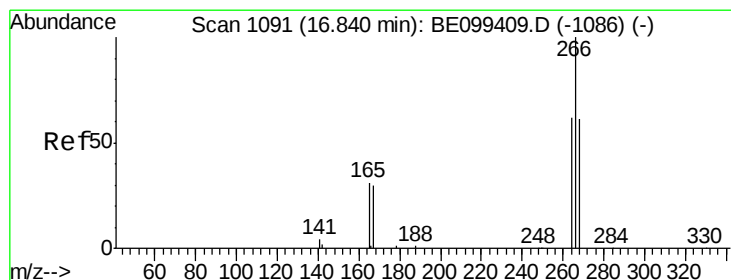
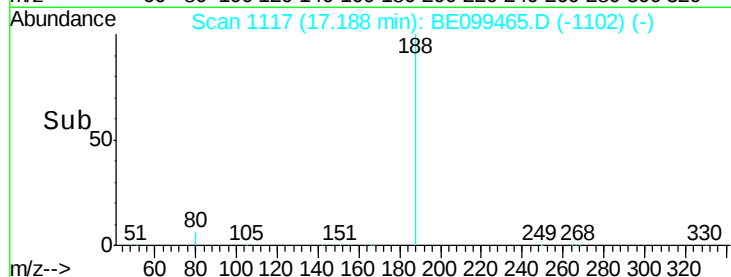
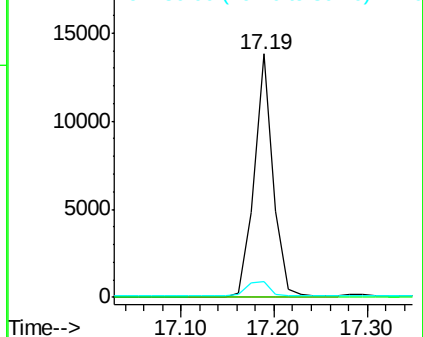
80 6.6 6.7 10.1#



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: 0.219 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

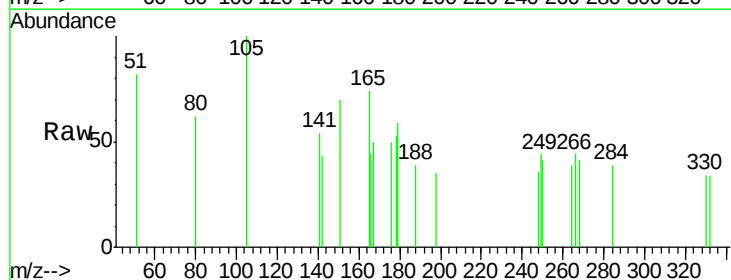
Tgt Ion:266 Resp: 20

Ion Ratio Lower Upper

266 100

264 88.3 50.8 76.2#

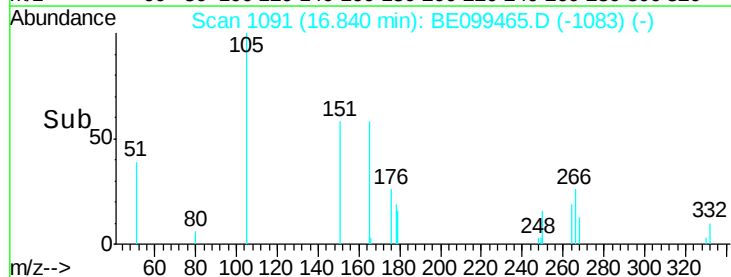
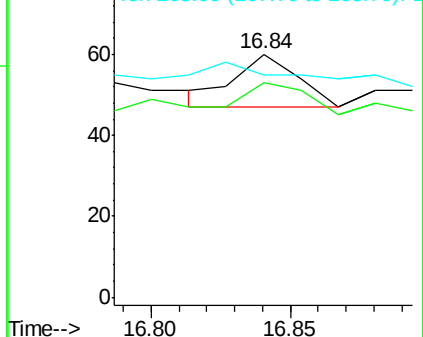
268 91.7 50.5 75.7#

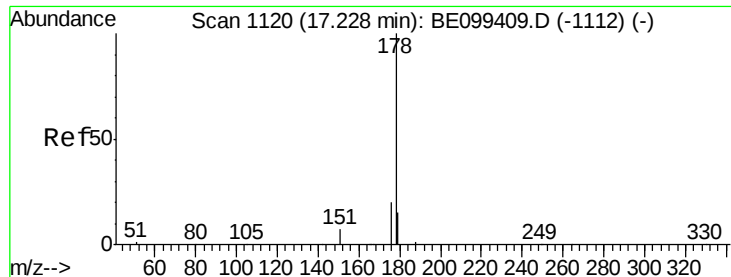


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.078 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

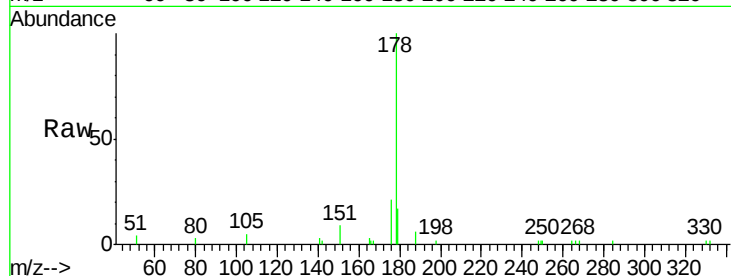
BNA_E

ClientSampleId :

PST-001-B187-042419

Tot Ion:178 Resp: 3940

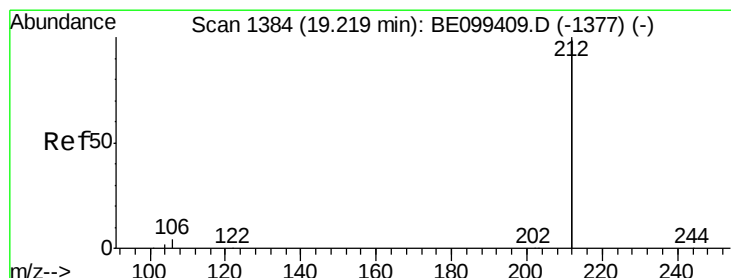
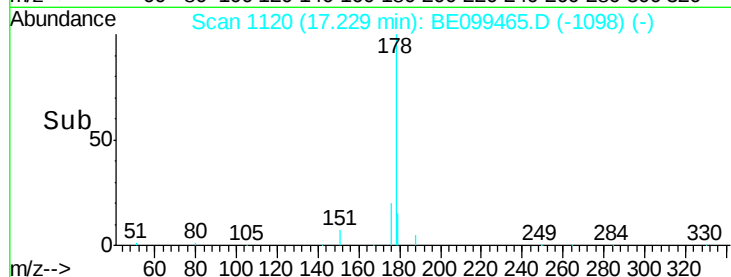
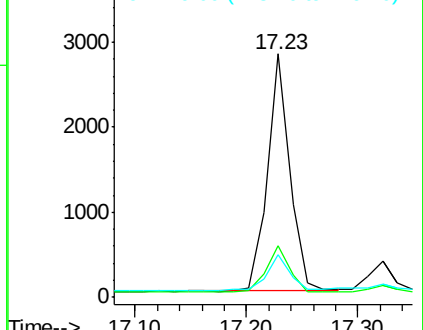
Ion	Ratio	Lower	Upper
178	100		
176	21.0	15.6	23.4
179	17.6	12.0	18.0



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



#25

Fluoranthene-d10

Concen: 0.194 ng

RT: 19.22 min Scan# 1384

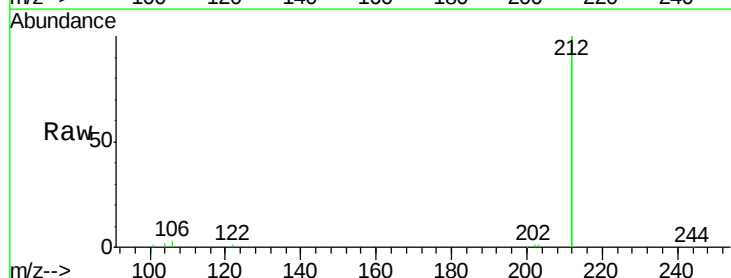
Delta R.T. 0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Tgt Ion:212 Resp: 51074

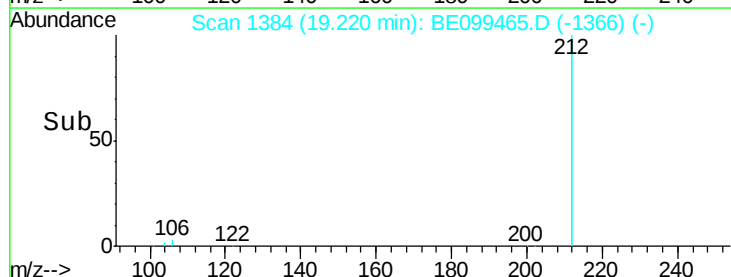
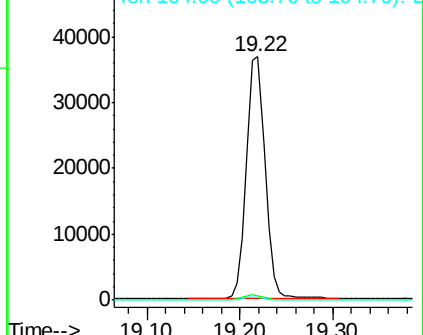
Ion	Ratio	Lower	Upper
212	100		
106	1.9	1.5	2.3
104	1.2	0.9	1.3

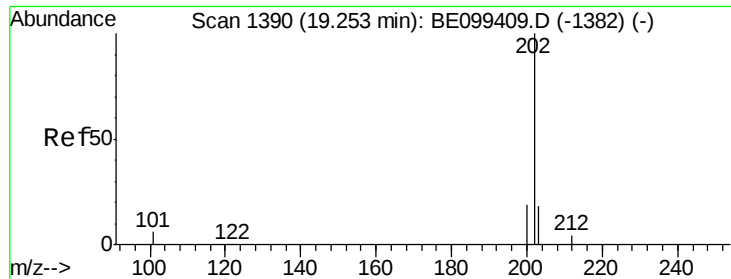


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

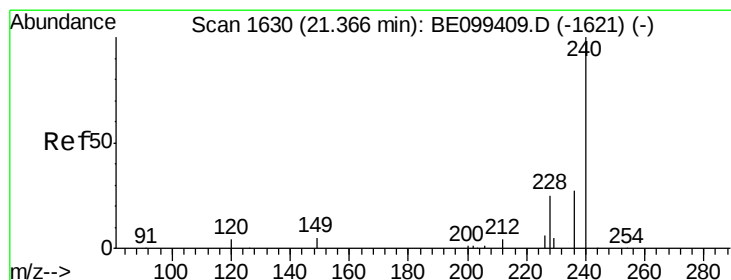
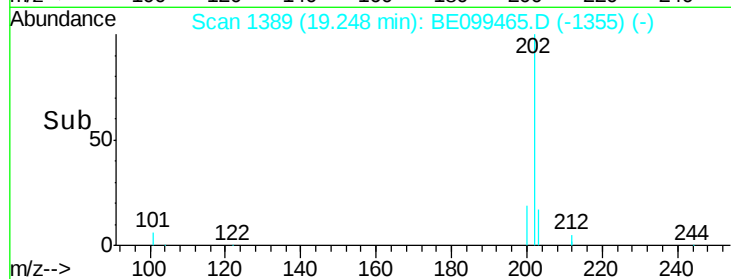
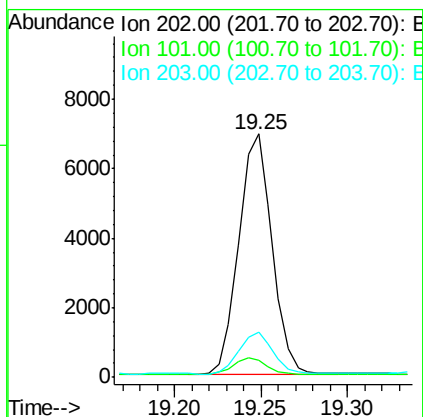
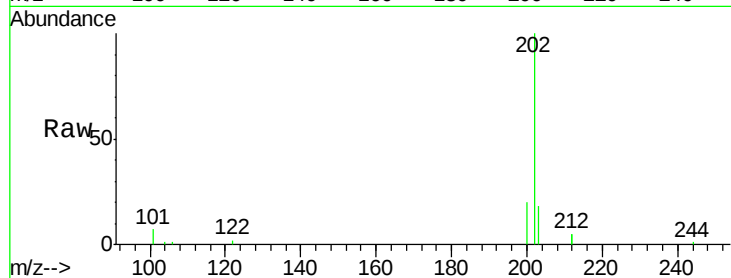




#26
Fluoranthene
 Concen: 0.124 ng
 RT: 19.25 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: BE099465.D
 Acq: 1 May 2019 15:54

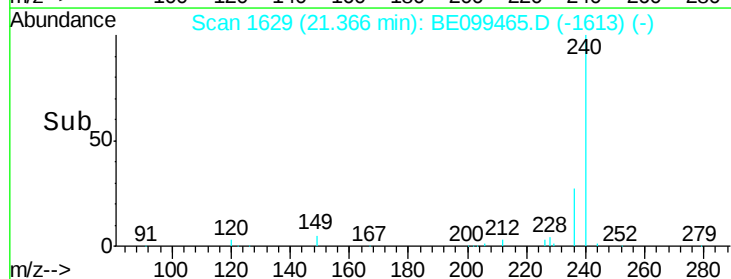
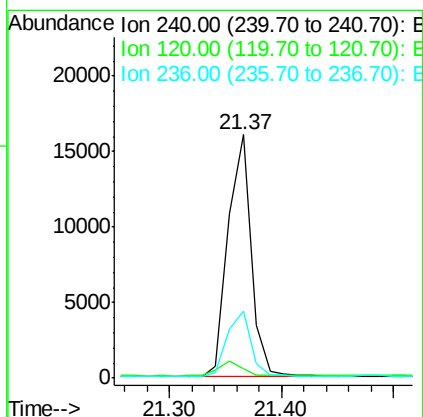
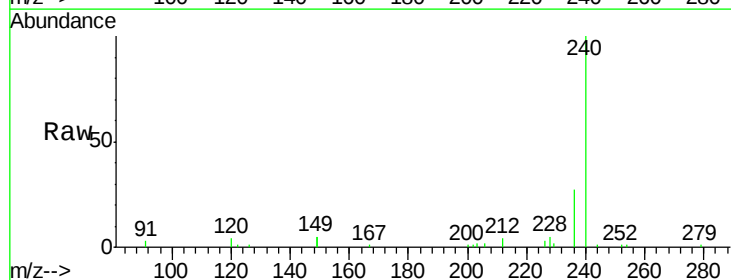
Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B187-042419

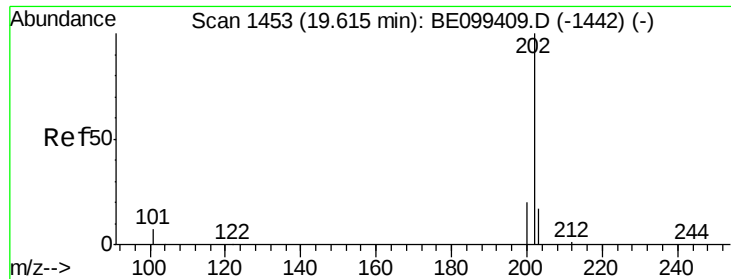
Tot Ion:202 Resp: 9333
 Ion Ratio Lower Upper
 202 100
 101 7.2 5.4 8.0
 203 17.5 13.9 20.9



#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: BE099465.D
 Acq: 1 May 2019 15:54

Tgt Ion:240 Resp: 23026
 Ion Ratio Lower Upper
 240 100
 120 3.6 4.0 6.0#
 236 27.2 22.0 33.0





#28

Pvrene

Concen: 0.164 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

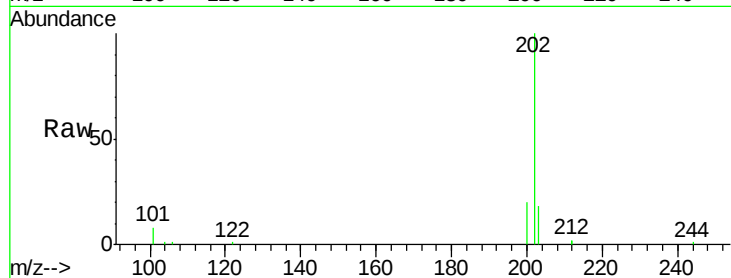
Tot Ion:202 Resp: 9841

Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

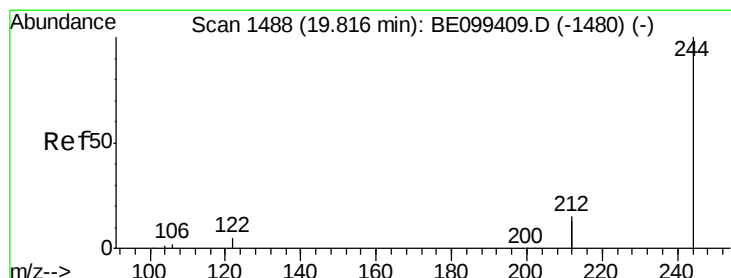
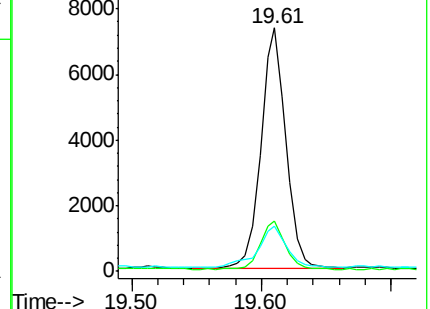
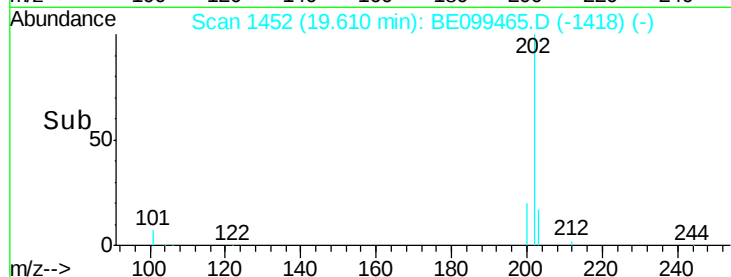
203 20.3 13.9 20.9



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: 0.240 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.00 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

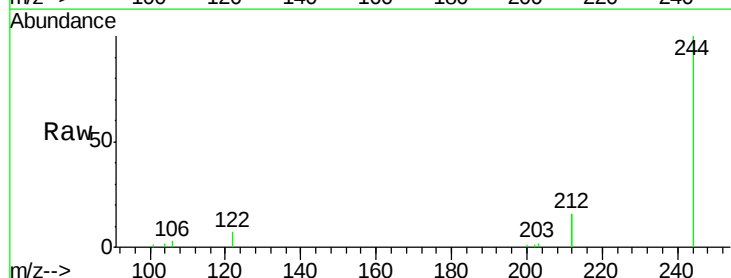
Tgt Ion:244 Resp: 10133

Ion Ratio Lower Upper

244 100

212 31.8 23.2 34.8

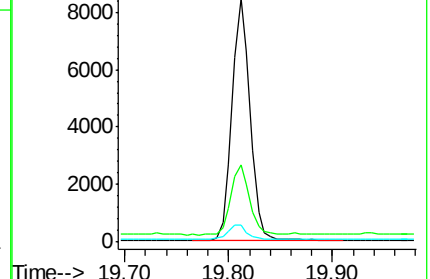
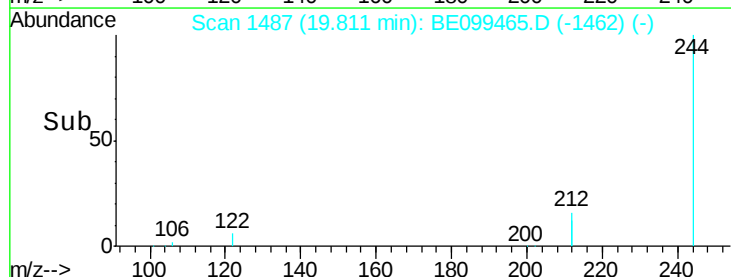
122 6.7 4.2 6.4#

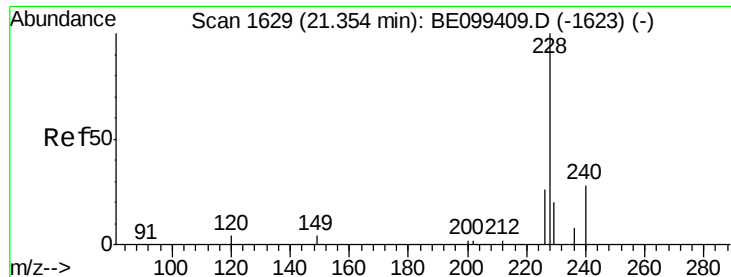


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.078 ng

RT: 21.34 min Scan# 1627

Delta R.T. -0.01 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

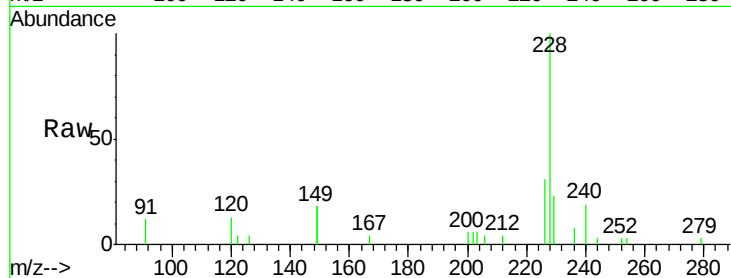
Tot Ion:228 Resp: 5718

Ion Ratio Lower Upper

228 100

226 31.3 21.0 31.6

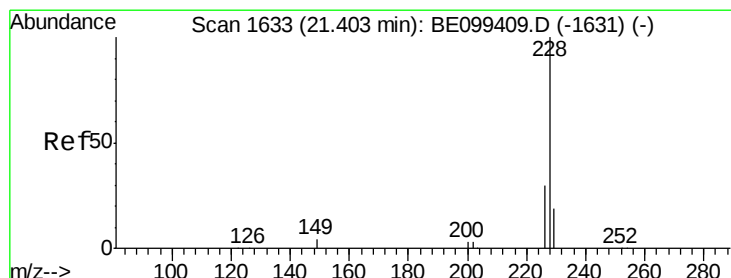
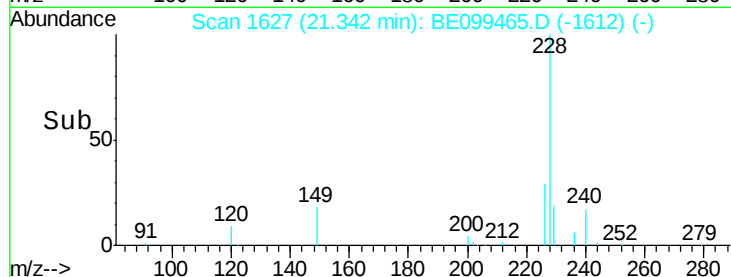
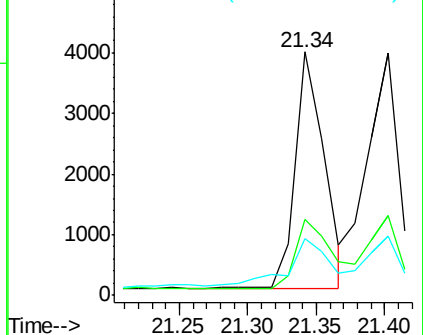
229 23.3 16.6 25.0



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: 0.053 ng

RT: 21.34 min Scan# 1627

Delta R.T. -0.06 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

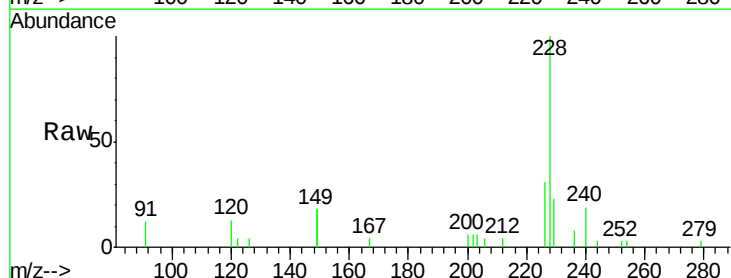
Tgt Ion:228 Resp: 3783

Ion Ratio Lower Upper

228 100

226 31.3 24.0 36.0

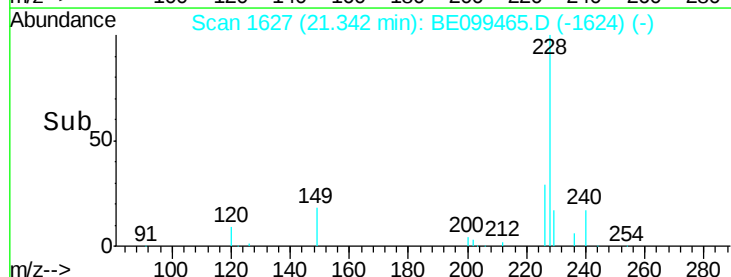
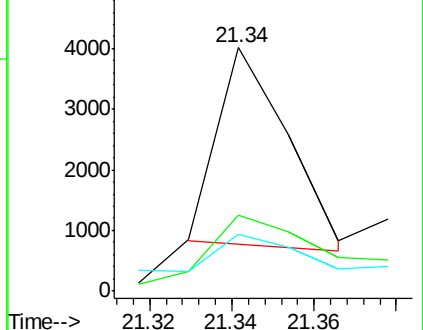
229 23.3 15.8 23.8

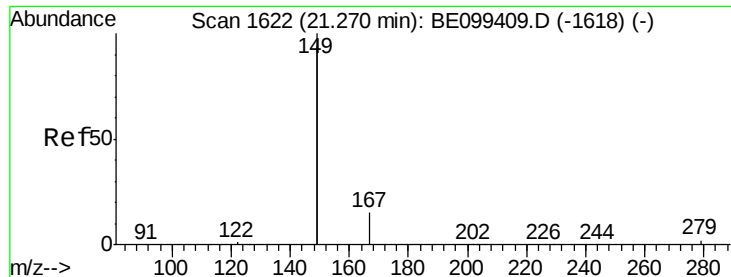


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.050 ng

RT: 21.26 min Scan# 1620

Delta R.T. -0.01 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

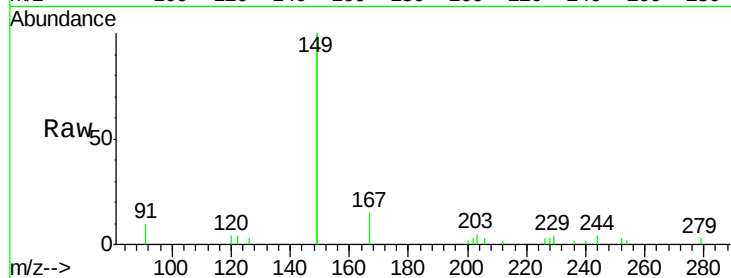
Tot Ion:149 Resp: 12600

Ion Ratio Lower Upper

149 100

167 7.7 5.8 8.6

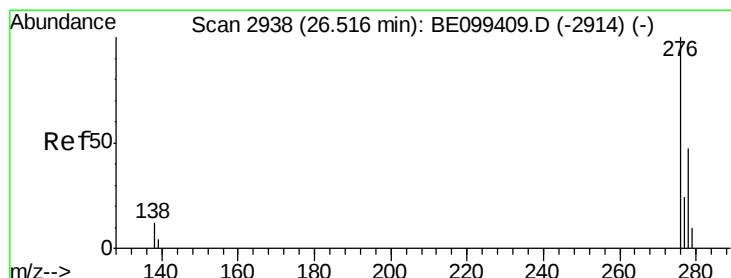
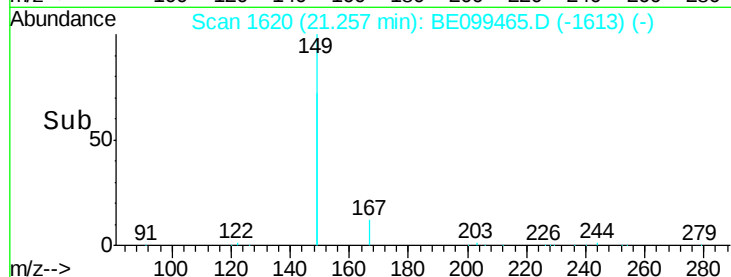
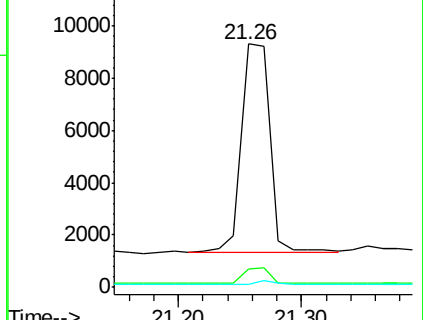
279 1.6 1.0 1.6#



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: 0.043 ng

RT: 26.50 min Scan# 2932

Delta R.T. -0.02 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

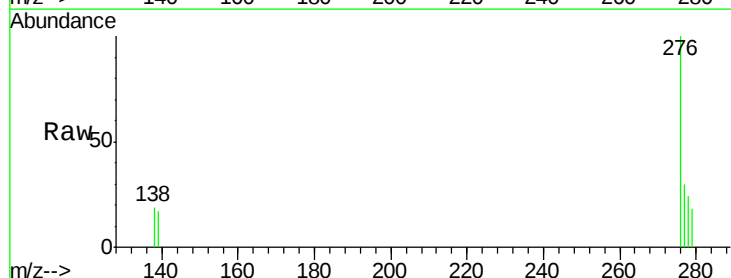
Tgt Ion:276 Resp: 3647

Ion Ratio Lower Upper

276 100

138 11.7 10.2 15.2

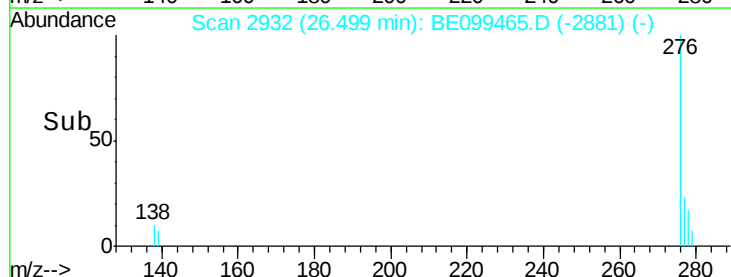
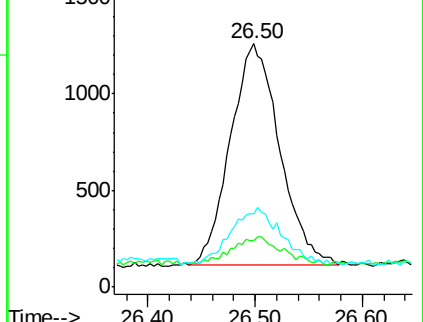
277 25.0 19.2 28.8

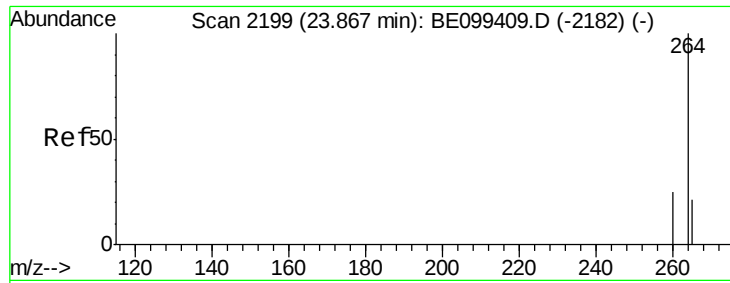


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

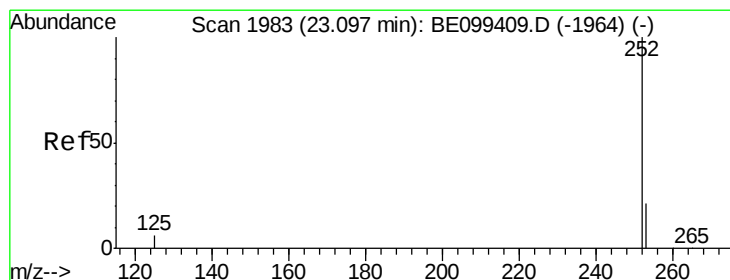
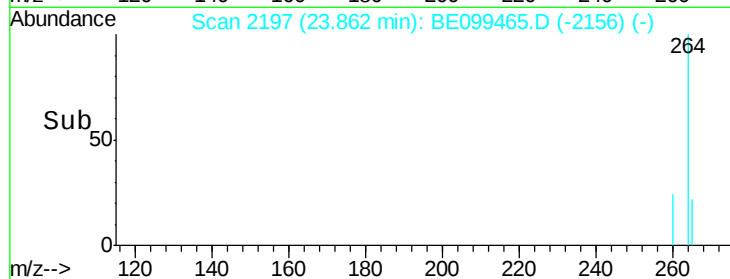
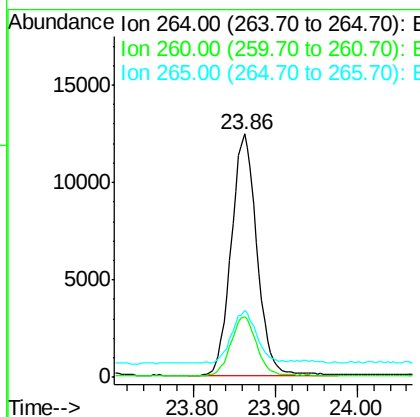
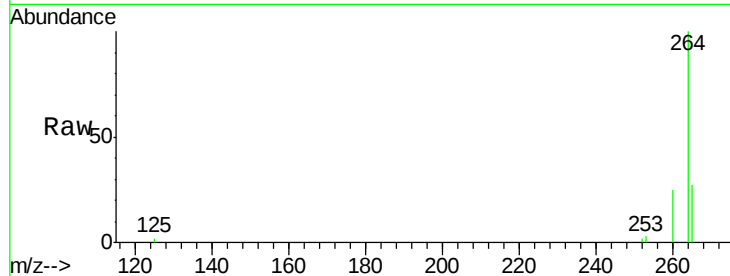




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2197
Delta R.T. -0.00 min
Lab File: BE099465.D
Acq: 1 May 2019 15:54

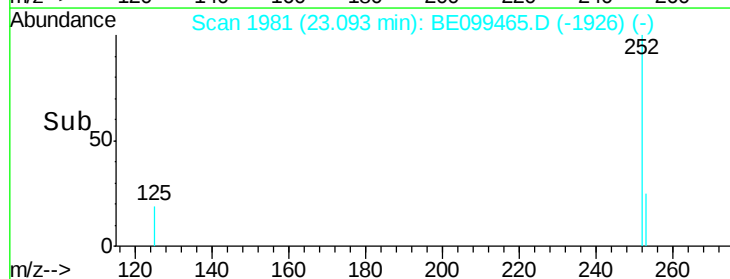
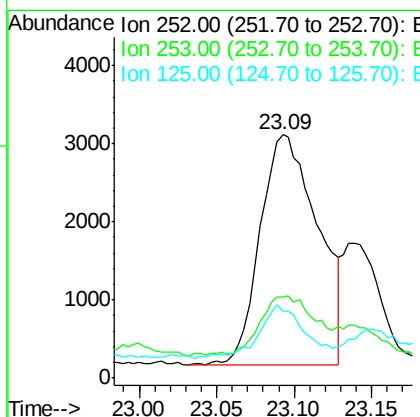
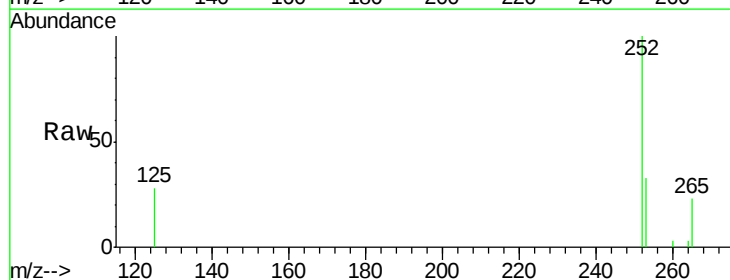
Instrument :
BNA_E
ClientSampleId :
PST-001-B187-042419

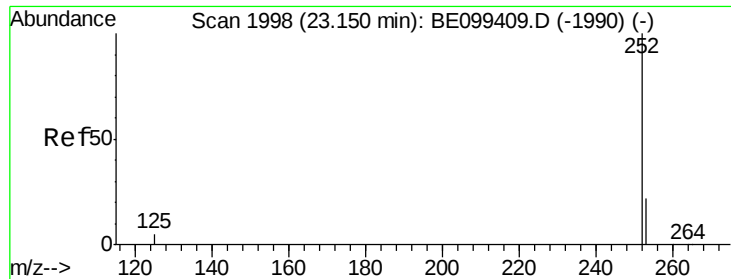
Tot Ion:264 Resp: 26875
Ion Ratio Lower Upper
264 100
260 24.9 20.2 30.2
265 27.4 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.098 ng
RT: 23.09 min Scan# 1981
Delta R.T. -0.00 min
Lab File: BE099465.D
Acq: 1 May 2019 15:54

Tgt Ion:252 Resp: 7619
Ion Ratio Lower Upper
252 100
253 33.4 18.1 27.1#
125 27.6 5.6 8.4#





#36

Benzo(k)fluoranthene

Concen: 0.102 ng

RT: 23.09 min Scan# 1981

Delta R.T. -0.06 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

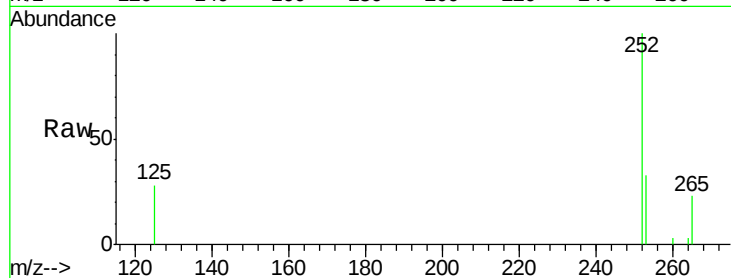
Tot Ion:252 Resp: 7619

Ion Ratio Lower Upper

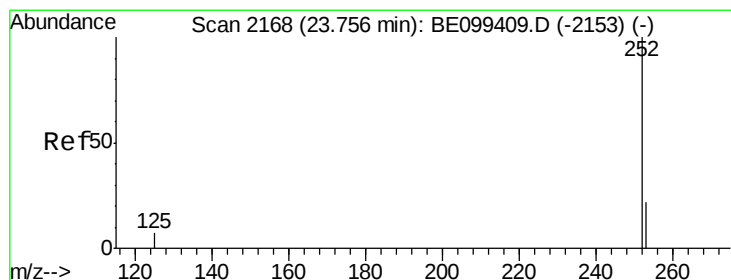
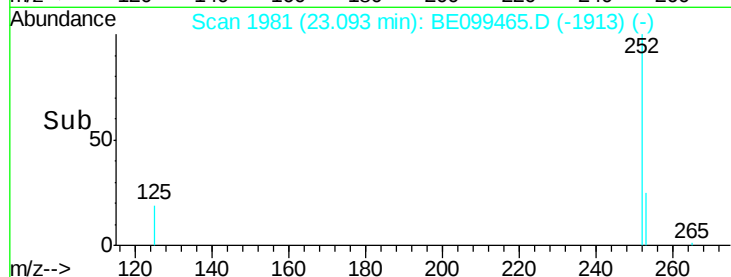
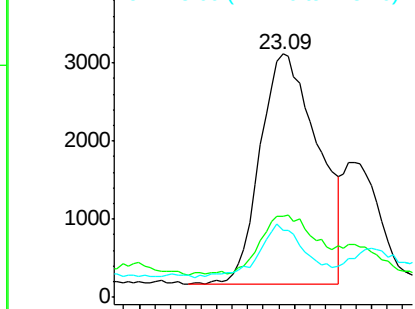
252 100

253 33.4 18.4 27.6#

125 27.6 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: 0.074 ng

RT: 23.75 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

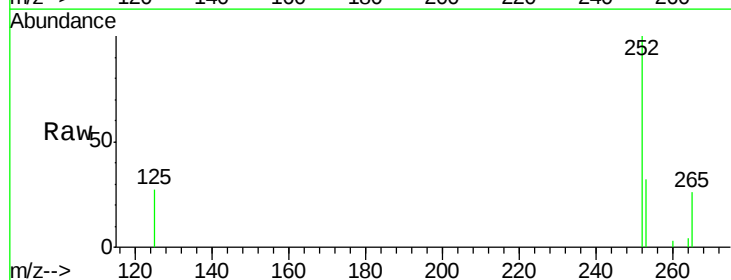
Tgt Ion:252 Resp: 5422

Ion Ratio Lower Upper

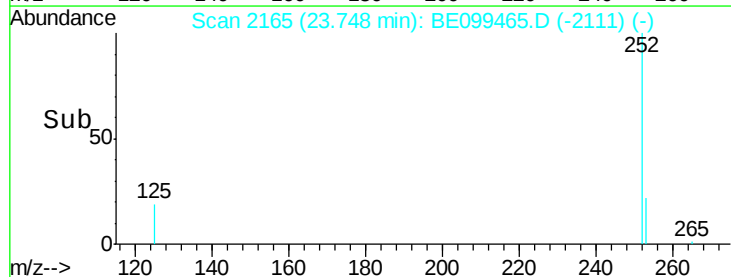
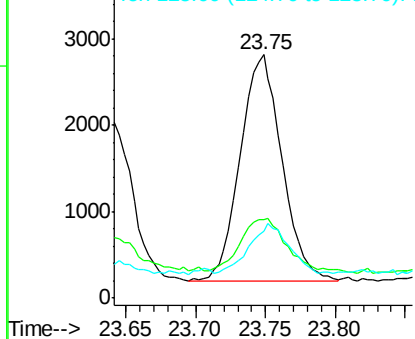
252 100

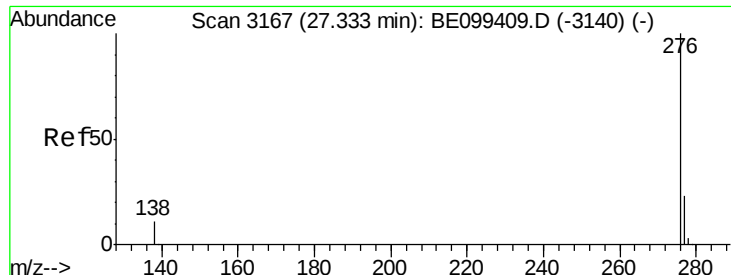
253 32.4 18.9 28.3#

125 27.4 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





#39

Benzo(a,h,i)perylene

Concen: 0.051 ng

RT: 27.32 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BE099465.D

Acq: 1 May 2019 15:54

Instrument :

BNA_E

ClientSampleId :

PST-001-B187-042419

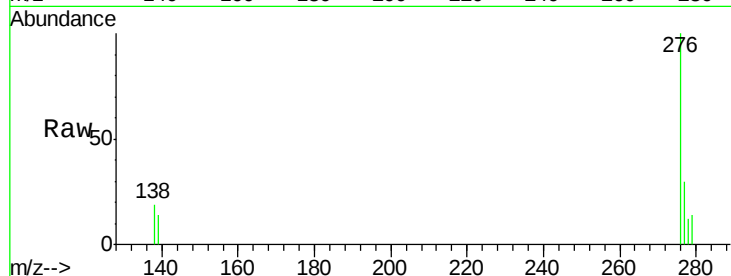
Tot Ion: 276 Resp: 3817

Ion Ratio Lower Upper

276 100

277 29.6 19.5 29.3#

138 18.9 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

