

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE062615\
 Data File : BE089976.D
 Acq On : 27 Jun 2015 14:43
 Operator : TP/IZ
 Sample : G2782-26 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0620204-150624

Quant Time: Jun 29 00:56:42 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 25 16:51:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	23404	5.00	ng	0.00
6) Naphthalene-d8	10.39	136	117691	5.00	ng	0.00
12) Acenaphthene-d10	14.24	164	71390	5.00	ng	0.00
18) Phenanthrene-d10	16.98	188	164163	5.00	ng	0.00
25) Chrysene-d12	21.14	240	181710	5.00	ng	0.00
32) Perylene-d12	23.47	264	169503	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.26	112	26015	6.16	ng	0.00
5) Phenol-d6	6.81	99	44941	6.94	ng	0.00
7) Nitrobenzene-d5	8.77	82	28038	3.20	ng	0.00
13) 2,4,6-Tribromophenol	15.74	330	8387	6.71	ng	0.00
14) 2-Fluorobiphenyl	12.86	172	66807	3.21	ng	0.00
27) Terphenyl-d14	19.60	244	95587	3.05	ng	0.00

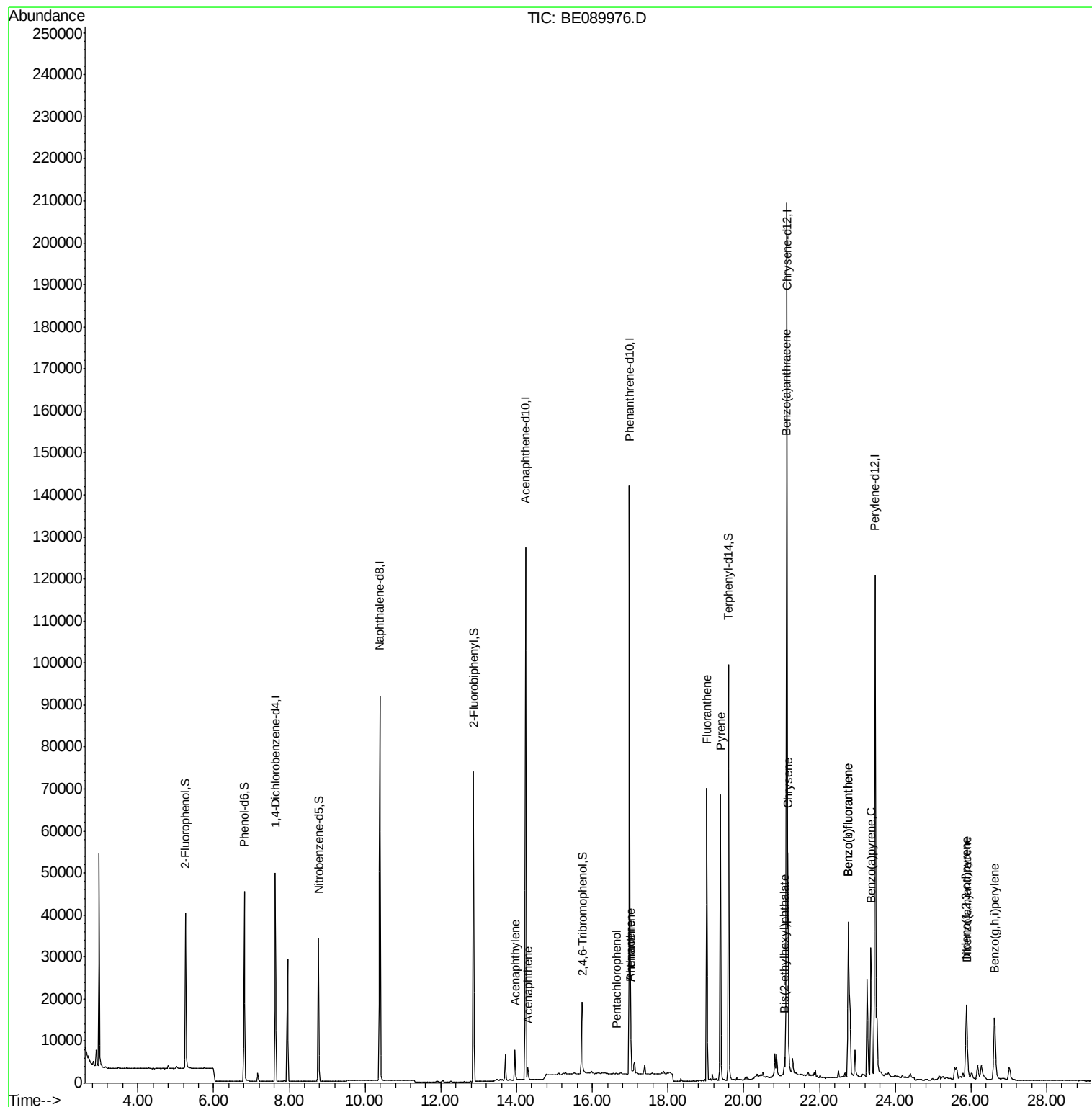
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.36	88	33	Below Cal	#	1
15) Acenaphthylene	13.95	152	10210	0.08	ng	99
16) Acenaphthene	14.30	154	498	0.03	ng	92
21) Pentachlorophenol	16.63	266	78	0.48	ng	# 74
22) Phenanthrene	17.01	178	14646	0.36	ng	99
23) Anthracene	17.01	178	14598	0.38	ng	98
24) Fluoranthene	19.02	202	61430	1.37	ng	100
26) Pyrene	19.38	202	60423	1.31	ng	96
28) Benzo(a)anthracene	21.12	228	44117	1.02	ng	98
29) Chrysene	21.17	228	49040	1.03	ng	97
30) Bis(2-ethylhexyl)phthalate	21.07	149	4323	1.17	ng	94
31) Indeno(1,2,3-cd)pyrene	25.88	276	31543	0.90	ng	# 100
33) Benzo(b)fluoranthene	22.76	252	67897	1.89	ng	96
34) Benzo(k)fluoranthene	22.76	252	67897	1.67	ng	98
35) Benzo(a)pyrene	23.36	252	43377	1.36	ng	98
36) Dibenzo(a,h)anthracene	25.90	278	7477	0.25	ng	# 89
37) Benzo(g,h,i)perylene	26.62	276	34680	1.09	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.63 min Scan# 856

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

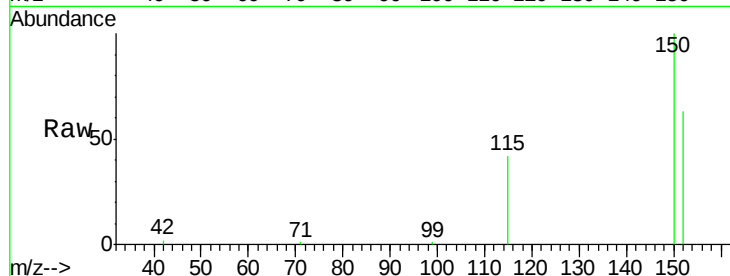
Tgt Ion:152 Resp: 23404

Ion Ratio Lower Upper

152 100

150 158.7 124.6 186.8

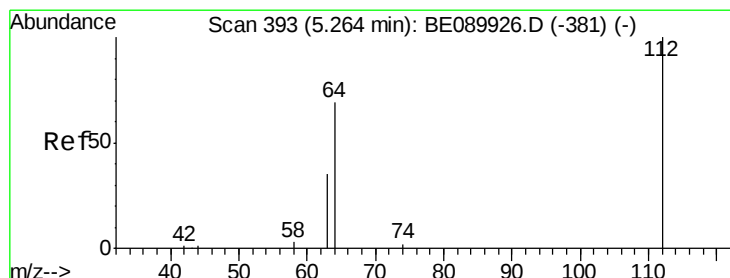
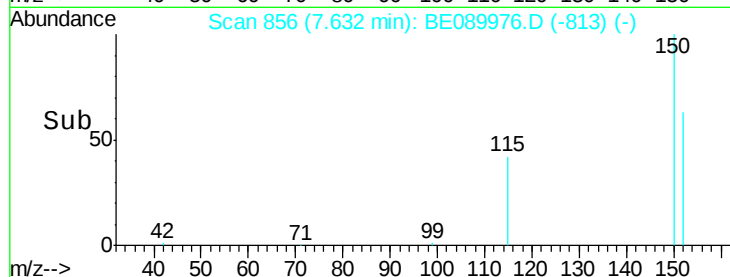
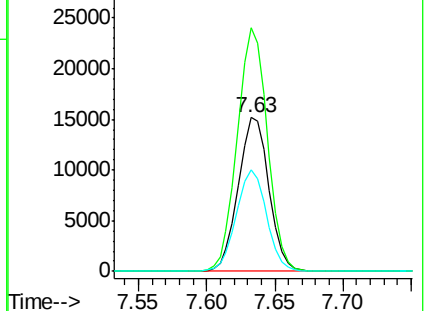
115 66.3 51.6 77.4



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: 6.16 ng

RT: 5.26 min Scan# 392

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

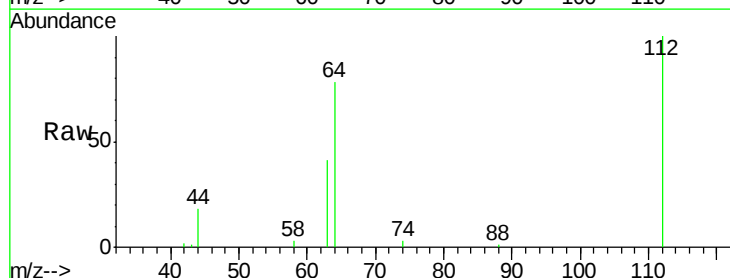
Tgt Ion:112 Resp: 26015

Ion Ratio Lower Upper

112 100

64 72.5 57.4 86.2

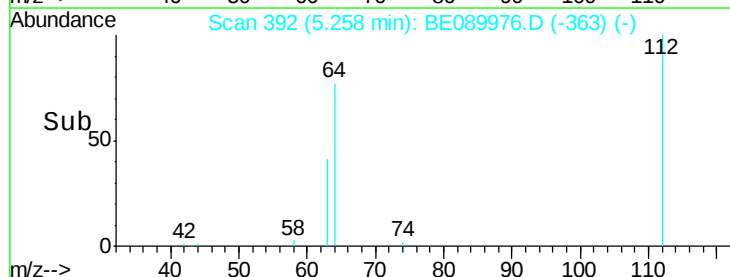
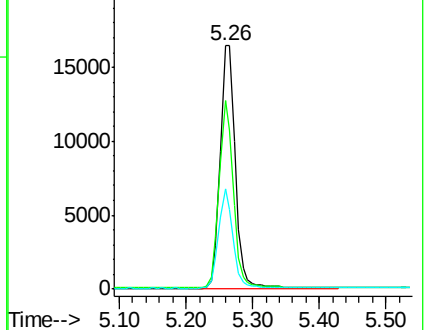
63 38.0 31.2 46.8

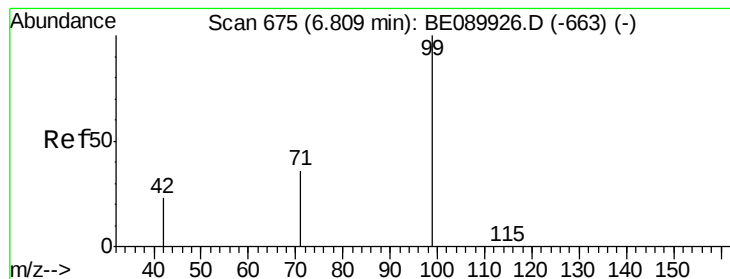


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 6.94 ng

RT: 6.81 min Scan# 675

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

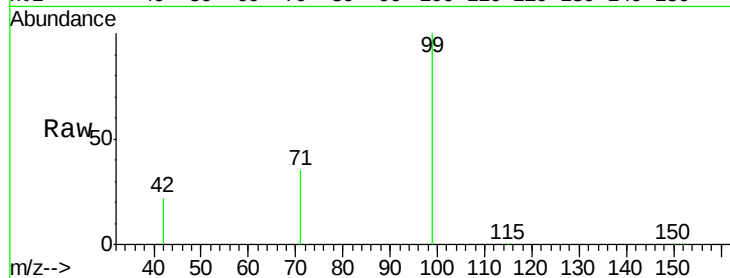
Tgt Ion: 99 Resp: 44941

Ion Ratio Lower Upper

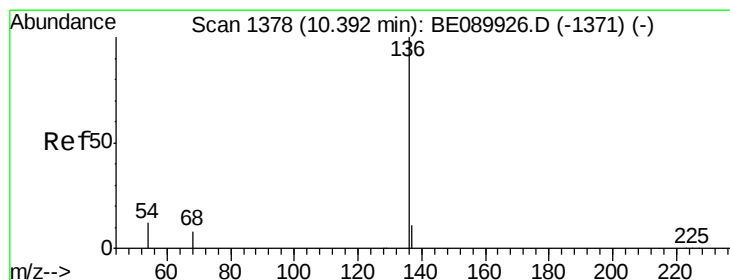
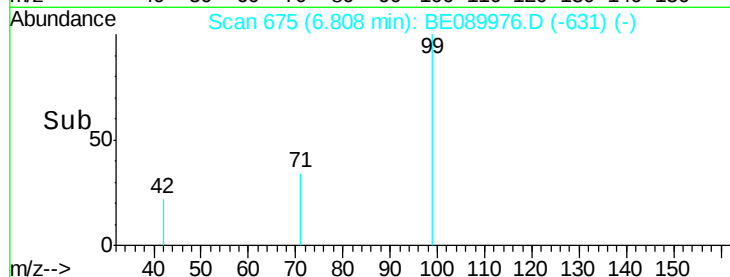
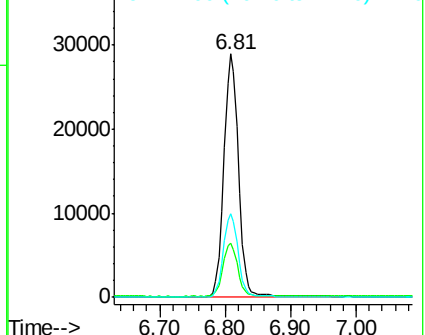
99 100

42 22.2 19.5 29.3

71 34.4 27.8 41.6



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



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 1378

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Tgt Ion: 136 Resp: 117691

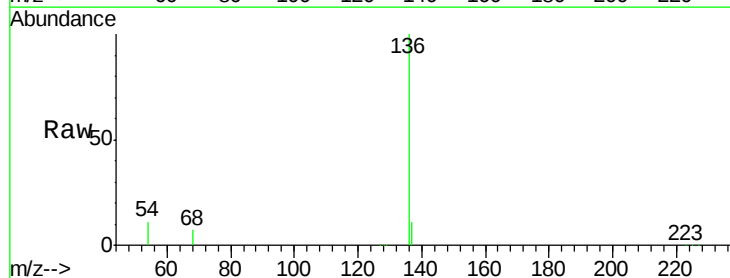
Ion Ratio Lower Upper

136 100

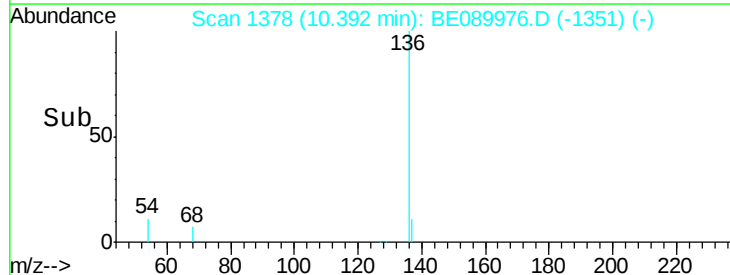
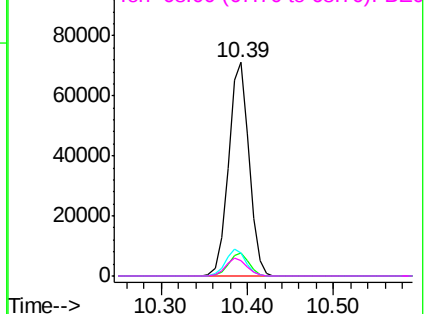
137 11.0 8.7 13.1

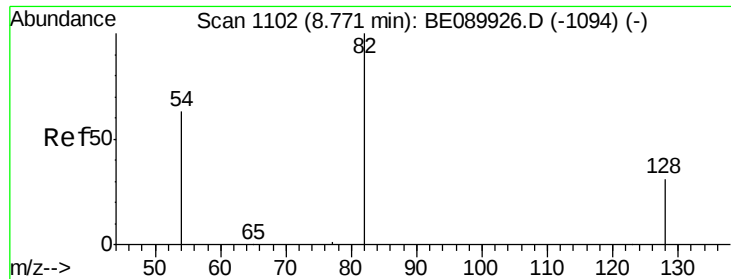
54 10.8 9.7 14.5

68 7.5 6.5 9.7



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





#7

Nitrobenzene-d5

Concen: 3.20 ng

RT: 8.77 min Scan# 1102

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

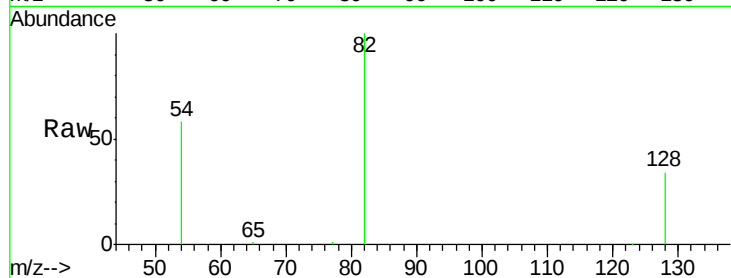
Tgt Ion: 82 Resp: 28038

Ion Ratio Lower Upper

82 100

128 33.9 25.6 38.4

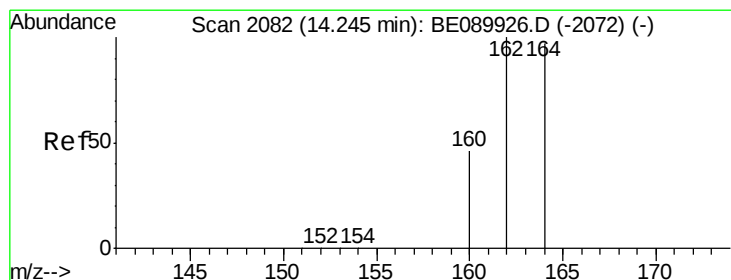
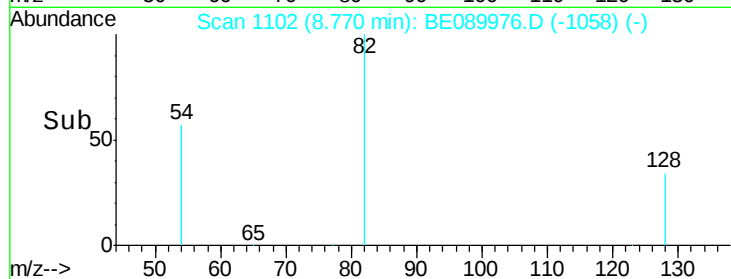
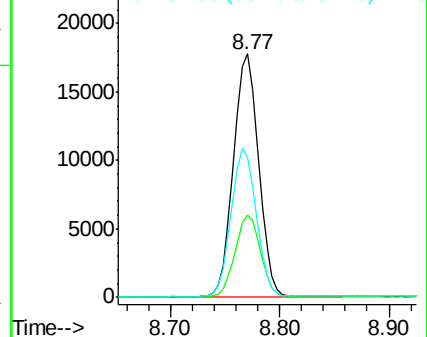
54 57.6 51.2 76.8



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



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.24 min Scan# 2081

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

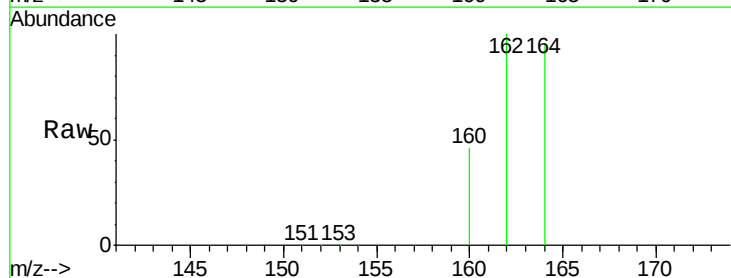
Tgt Ion: 164 Resp: 71390

Ion Ratio Lower Upper

164 100

162 104.1 82.7 124.1

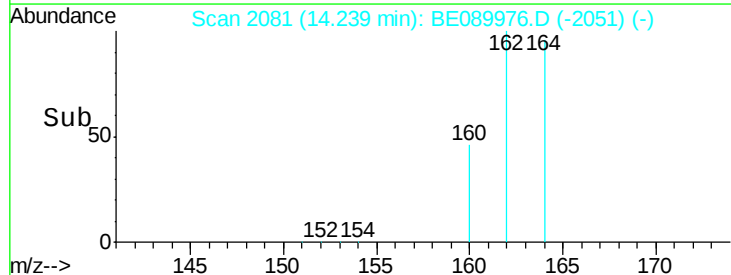
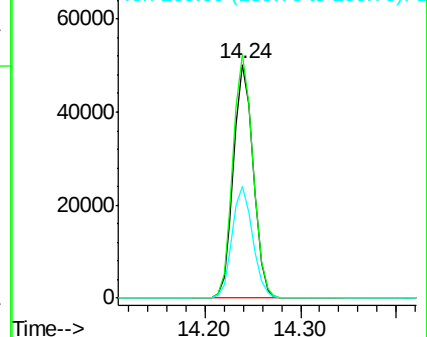
160 47.7 38.3 57.5

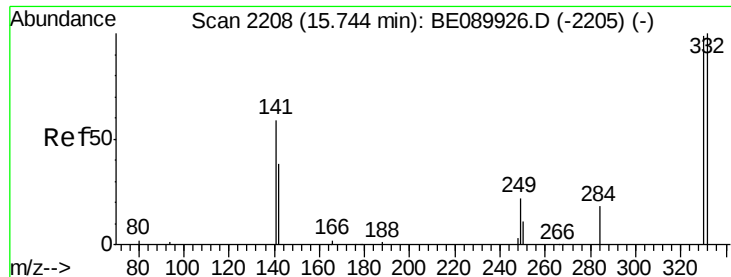


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

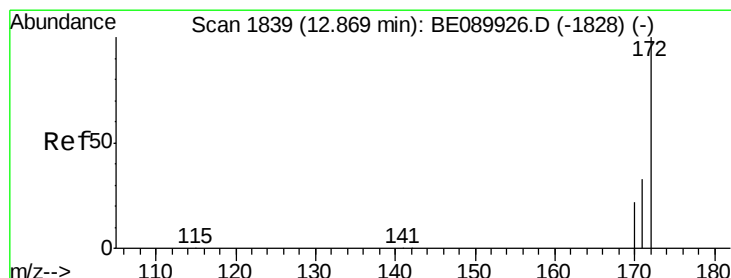
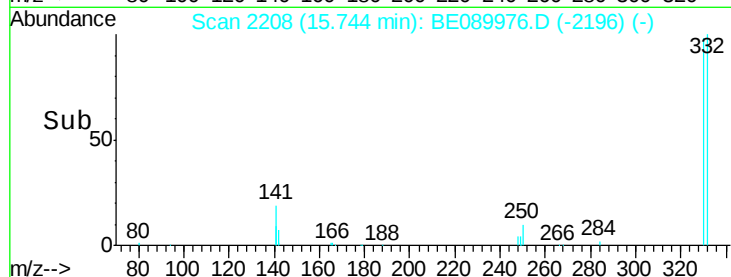
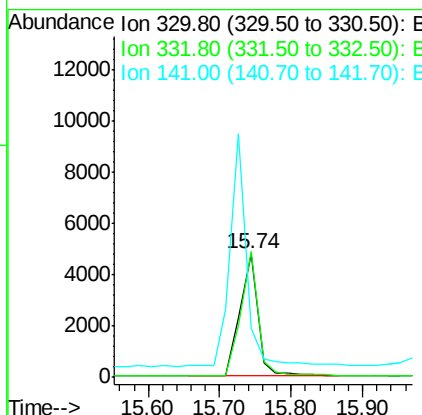
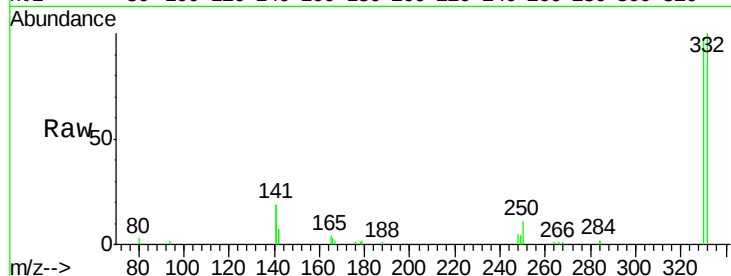




#13
 2,4,6-Tribromophenol
 Concen: 6.71 ng
 RT: 15.74 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: BE089976.D
 Acq: 27 Jun 2015 14:43

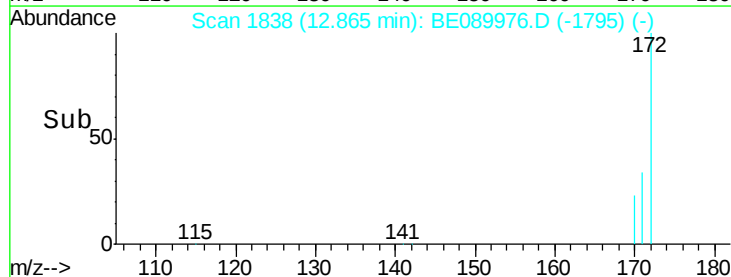
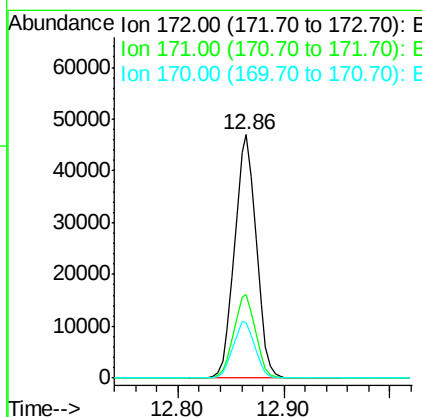
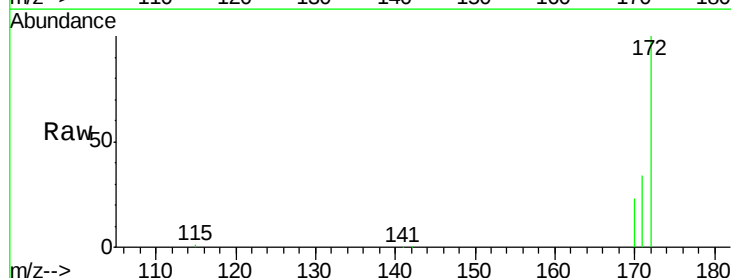
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0620204-150624

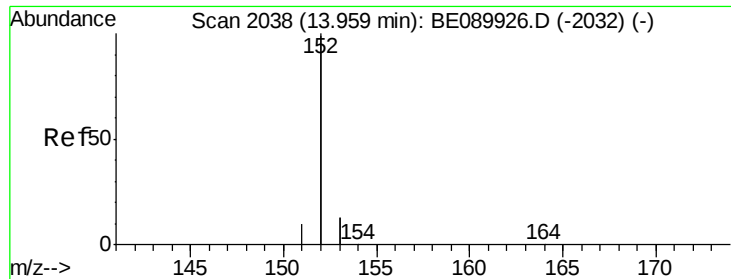
Tgt Ion:330 Resp: 8387
 Ion Ratio Lower Upper
 330 100
 332 98.0 77.9 116.9
 141 176.2 142.8 214.2



#14
 2-Fluorobiphenyl
 Concen: 3.21 ng
 RT: 12.86 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: BE089976.D
 Acq: 27 Jun 2015 14:43

Tgt Ion:172 Resp: 66807
 Ion Ratio Lower Upper
 172 100
 171 34.2 26.7 40.1
 170 22.6 17.5 26.3





#15

Acenaphthylene

Concen: 0.08 ng

RT: 13.95 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

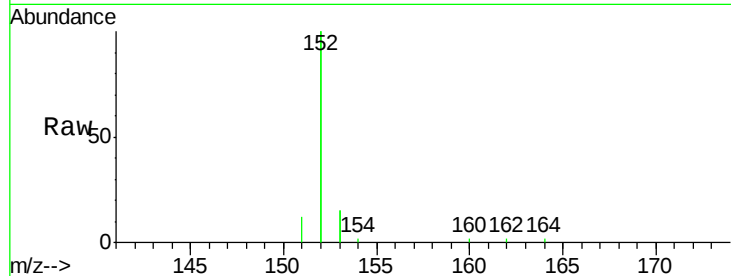
Tgt Ion:152 Resp: 10210

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

153 12.6 10.4 15.6



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

13.95

6000

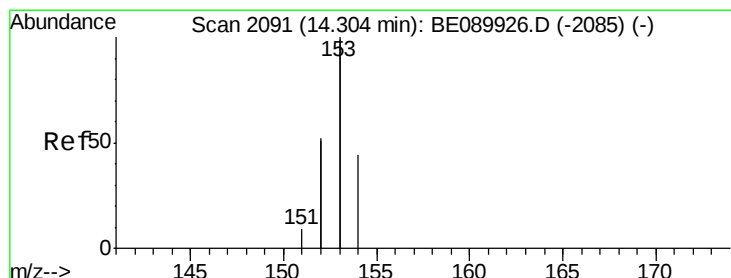
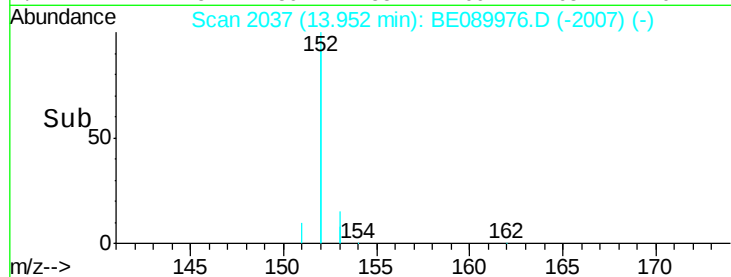
4000

2000

0

Time-->

13.90 14.00 14.10



#16

Acenaphthene

Concen: 0.03 ng

RT: 14.30 min Scan# 2091

Delta R.T. 0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

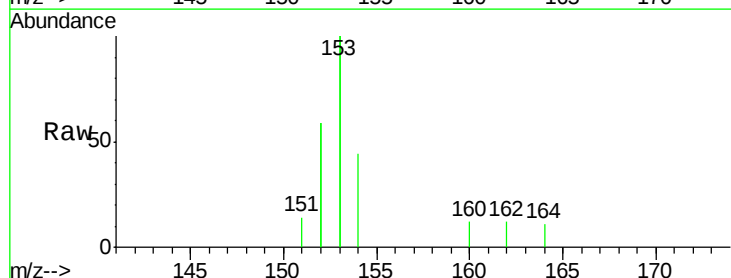
Tgt Ion:154 Resp: 498

Ion Ratio Lower Upper

154 100

153 471.9 362.8 544.2

152 258.0 194.6 291.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

14.30

2000

1500

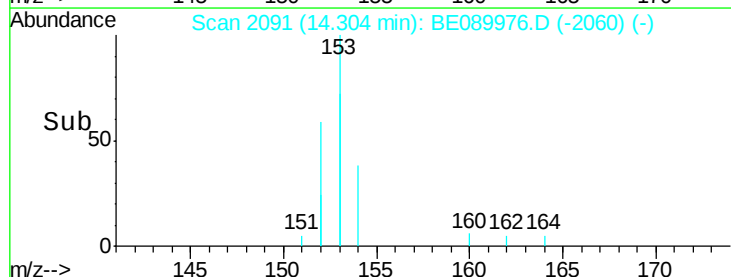
1000

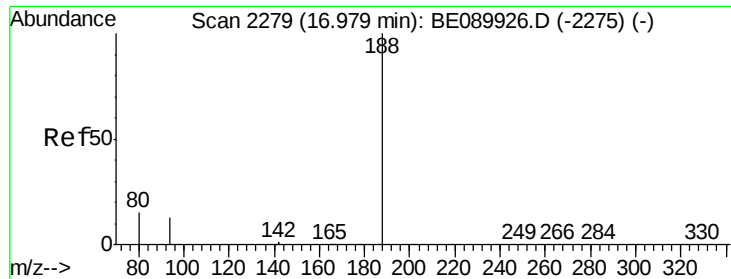
500

0

Time-->

14.25 14.30 14.35





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.98 min Scan# 2279

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

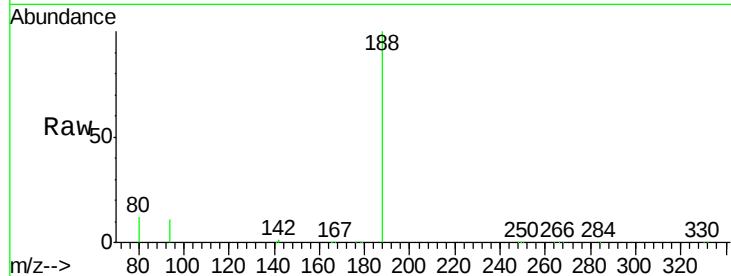
Tgt Ion:188 Resp: 164163

Ion Ratio Lower Upper

188 100

94 11.2 10.6 16.0

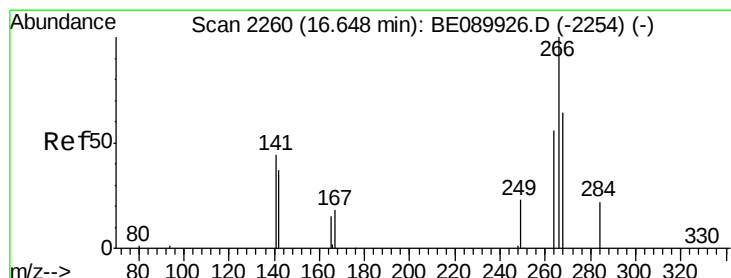
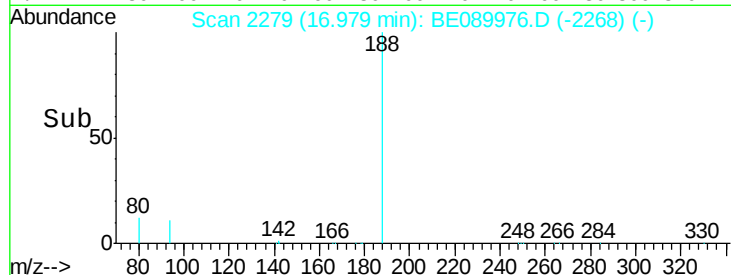
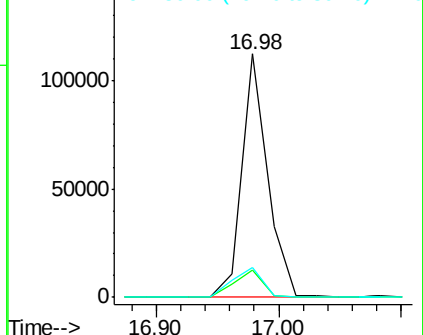
80 12.4 11.8 17.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#21

Pentachlorophenol

Concen: 0.48 ng

RT: 16.63 min Scan# 2259

Delta R.T. -0.02 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

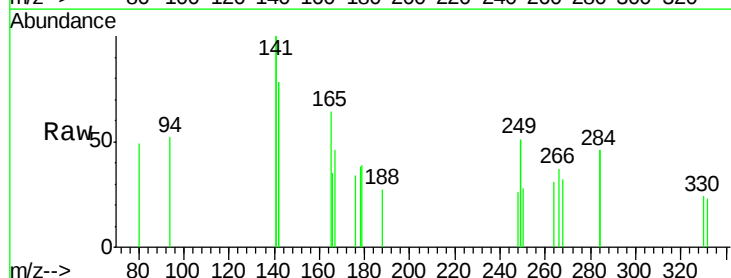
Tgt Ion:266 Resp: 78

Ion Ratio Lower Upper

266 100

268 86.8 54.4 81.6#

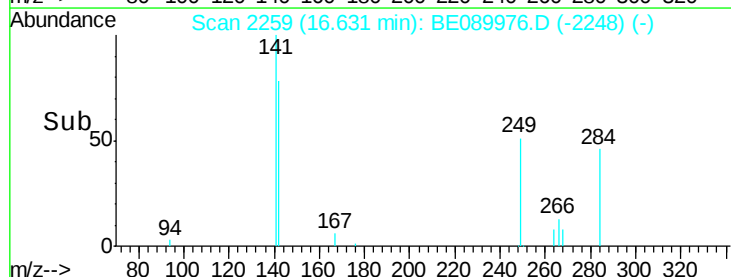
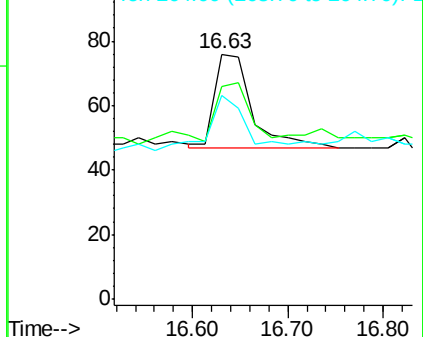
264 82.9 48.2 72.2#

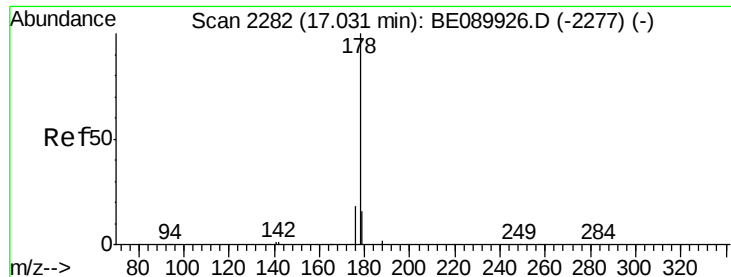


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 0.36 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.02 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

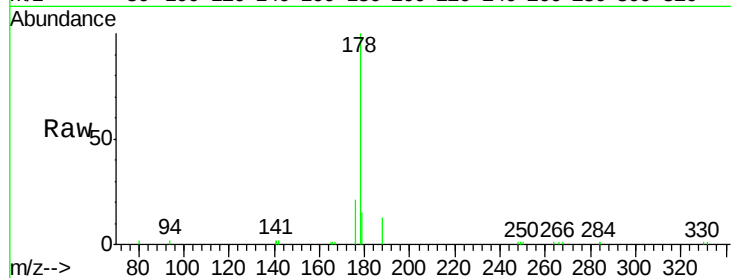
Tgt Ion:178 Resp: 14646

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

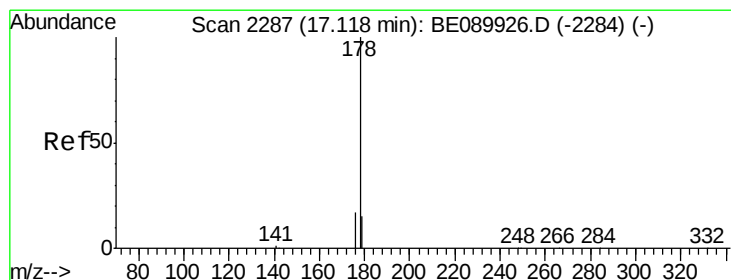
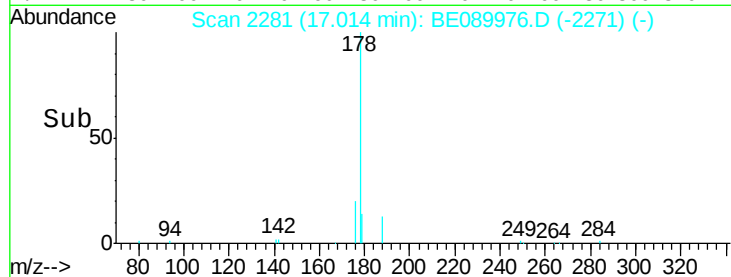
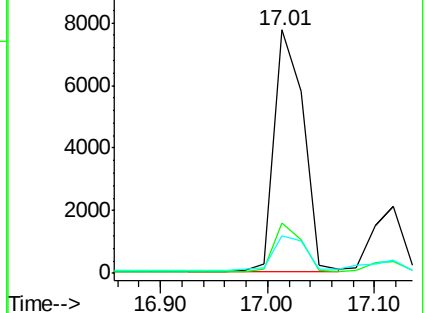
179 16.5 12.6 19.0



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



#23

Anthracene

Concen: 0.38 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.10 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

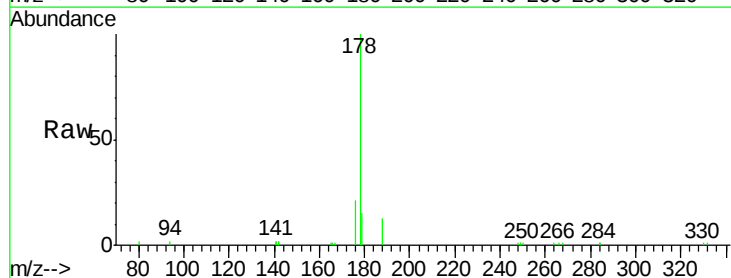
Tgt Ion:178 Resp: 14598

Ion Ratio Lower Upper

178 100

176 19.1 14.6 21.8

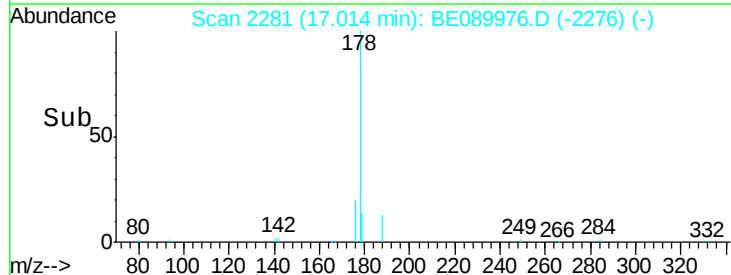
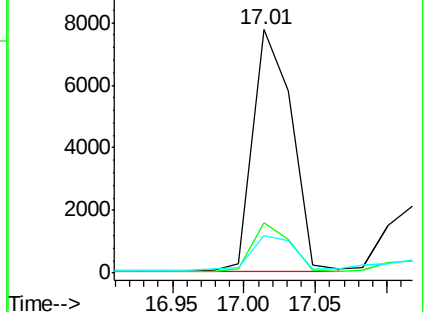
179 16.3 12.3 18.5

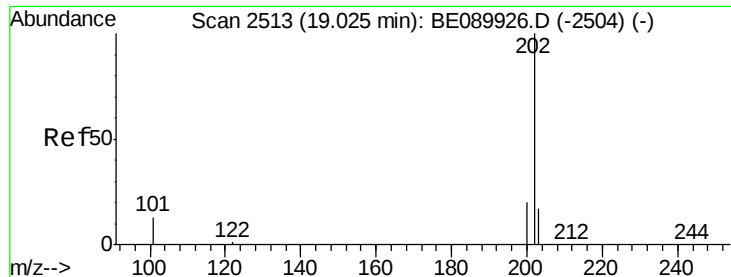


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene

Concen: 1.37 ng

RT: 19.02 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

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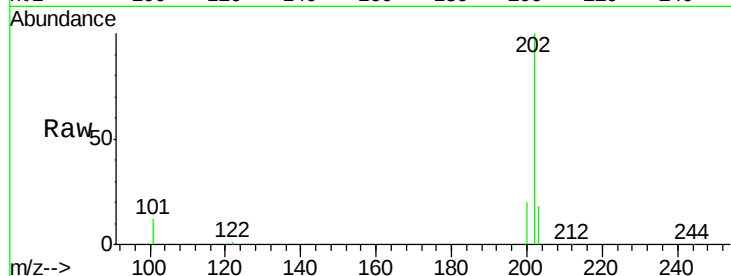
Tgt Ion:202 Resp: 61430

Ion Ratio Lower Upper

202 100

101 13.3 10.6 16.0

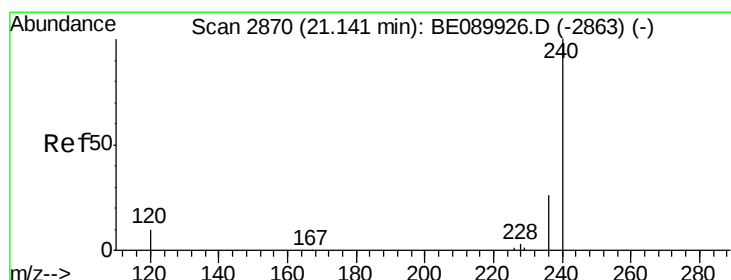
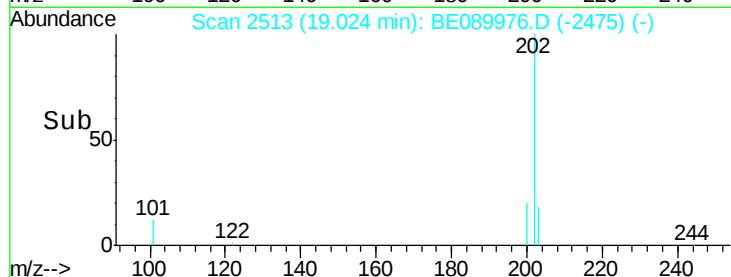
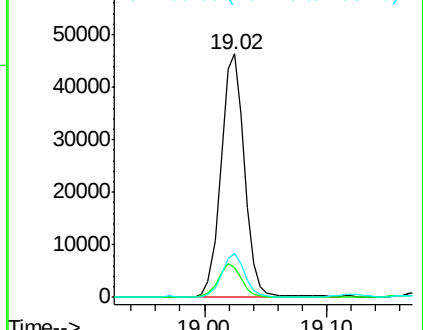
203 17.4 13.8 20.8



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



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.14 min Scan# 2870

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

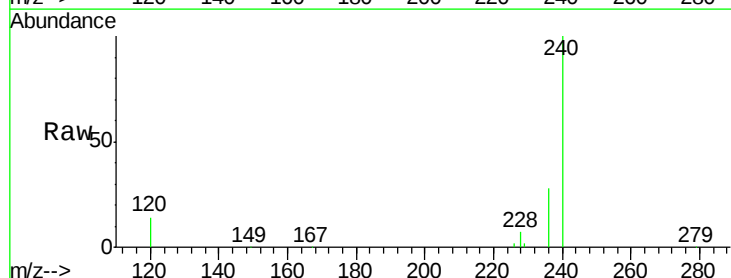
Tgt Ion:240 Resp: 181710

Ion Ratio Lower Upper

240 100

120 13.6 7.9 11.9#

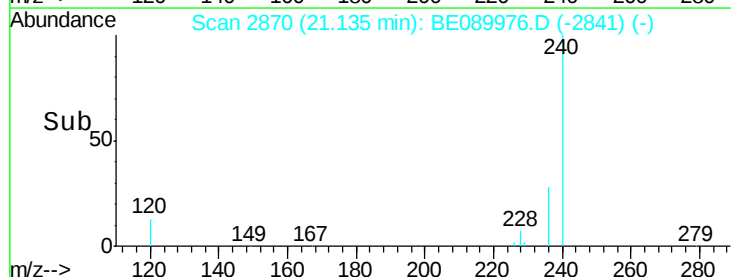
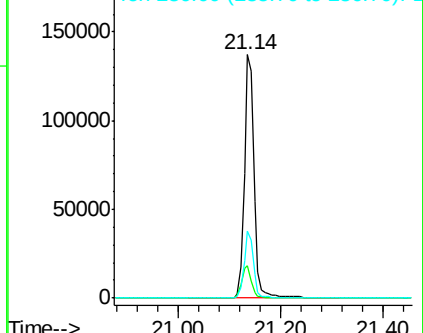
236 27.7 21.2 31.8

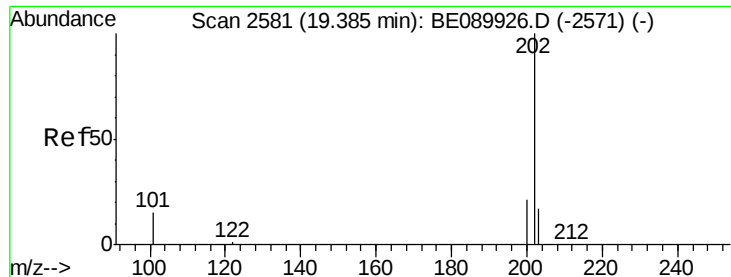


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

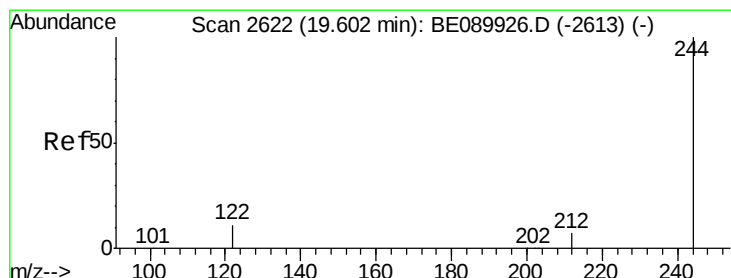
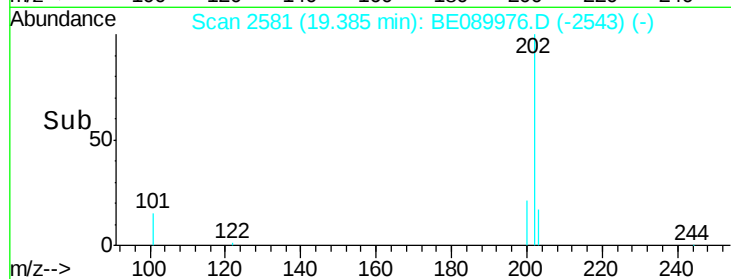
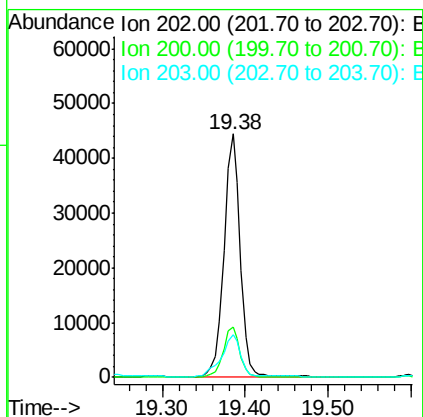
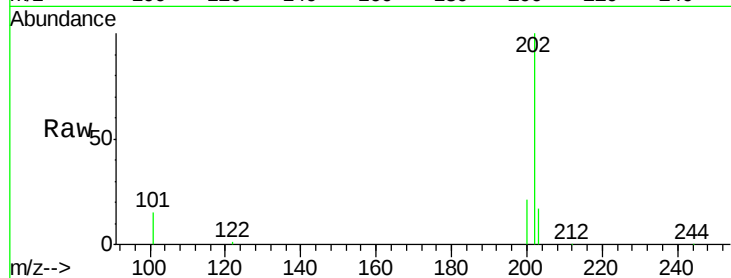




#26
 Pyrene
 Concen: 1.31 ng
 RT: 19.38 min Scan# 2581
 Delta R.T. -0.00 min
 Lab File: BE089976.D
 Acq: 27 Jun 2015 14:43

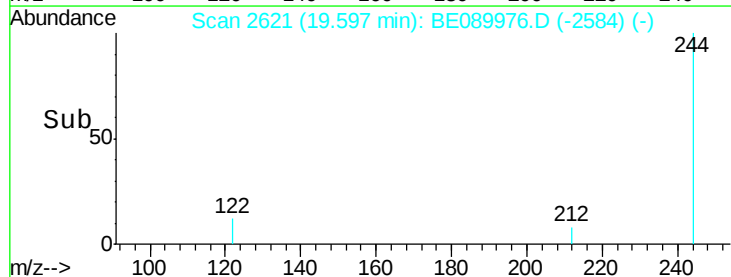
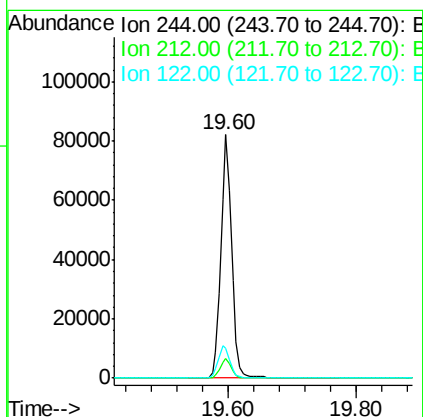
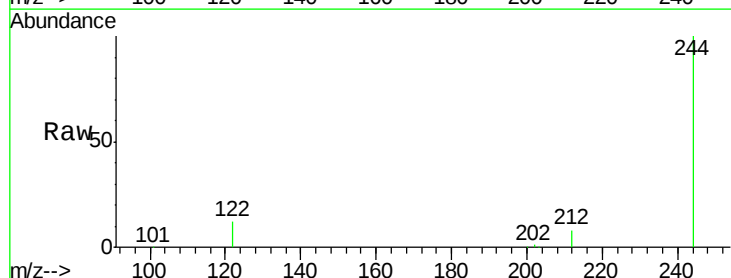
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0620204-150624

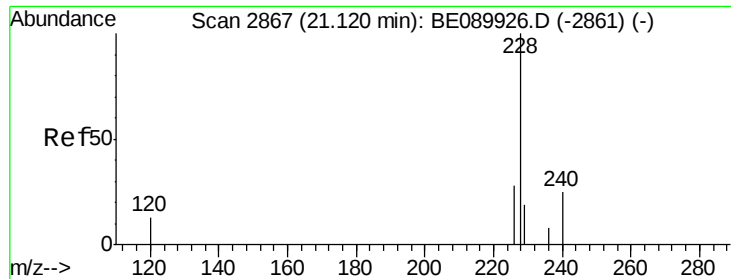
Tgt Ion: 202 Resp: 60423
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.6 25.0
 203 20.6 13.9 20.9



#27
 Terphenyl-d14
 Concen: 3.05 ng
 RT: 19.60 min Scan# 2621
 Delta R.T. -0.01 min
 Lab File: BE089976.D
 Acq: 27 Jun 2015 14:43

Tgt Ion: 244 Resp: 95587
 Ion Ratio Lower Upper
 244 100
 212 7.9 6.1 9.1
 122 12.1 8.7 13.1

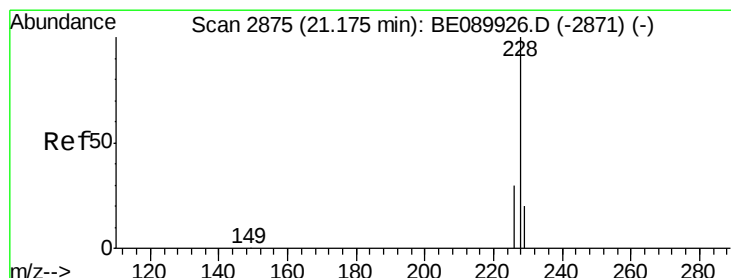
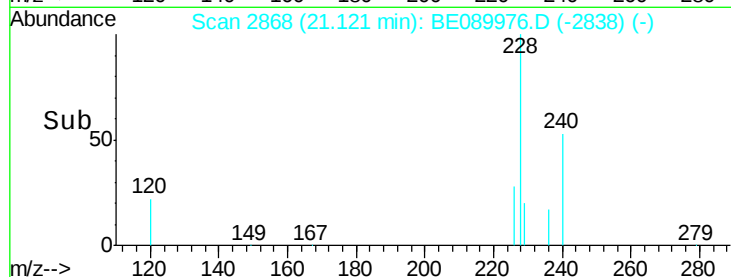
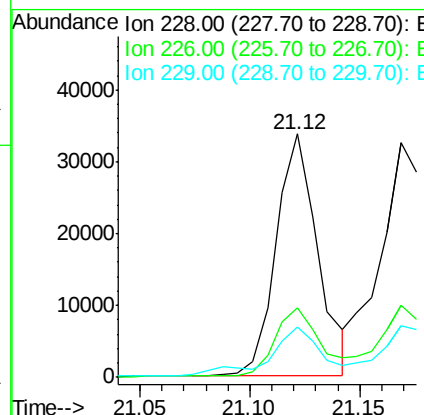
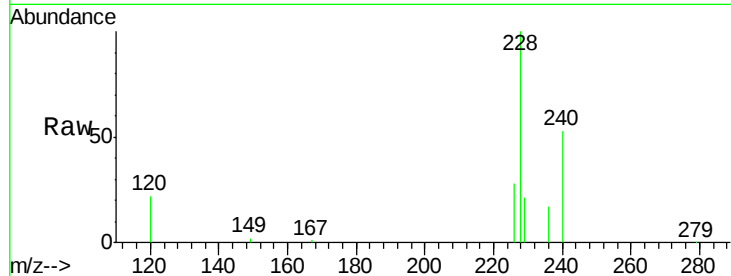




#28
Benzo(a)anthracene
Concen: 1.02 ng
RT: 21.12 min Scan# 2868
Delta R.T. 0.00 min
Lab File: BE089976.D
Acq: 27 Jun 2015 14:43

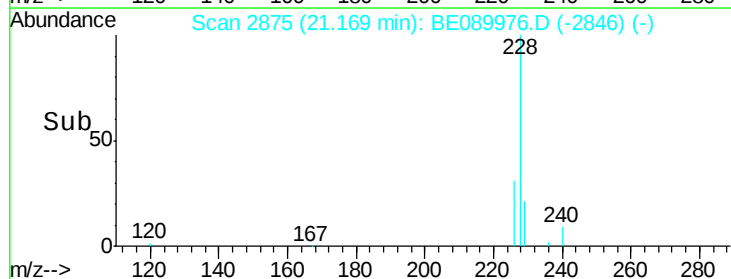
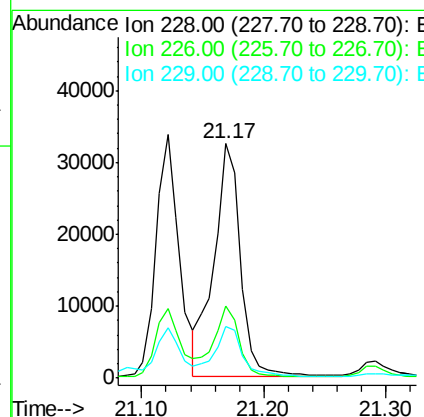
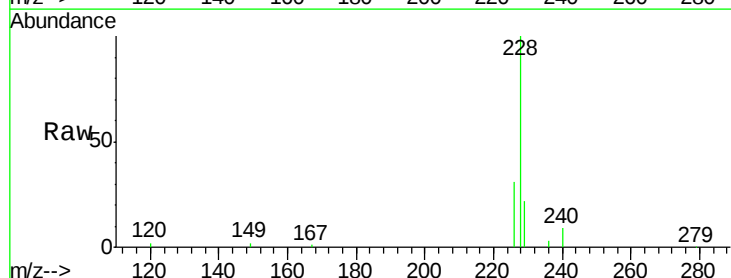
Instrument :
BNA_E
ClientSampleId :
X1SS0620204-150624

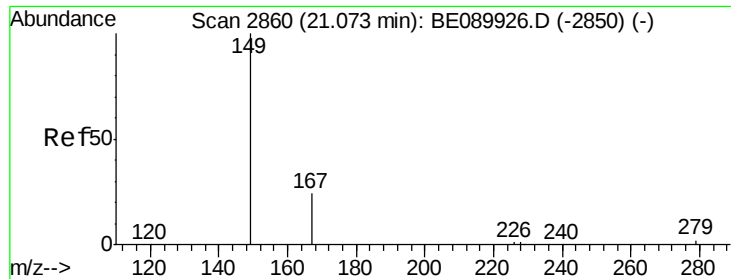
Tgt Ion:228 Resp: 44117
Ion Ratio Lower Upper
228 100
226 28.4 22.2 33.4
229 20.7 15.3 22.9



#29
Chrysene
Concen: 1.03 ng
RT: 21.17 min Scan# 2875
Delta R.T. -0.01 min
Lab File: BE089976.D
Acq: 27 Jun 2015 14:43

Tgt Ion:228 Resp: 49040
Ion Ratio Lower Upper
228 100
226 30.9 23.7 35.5
229 21.9 15.8 23.8





#30

Bis(2-ethylhexyl)phthalate

Concen: 1.17 ng

RT: 21.07 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

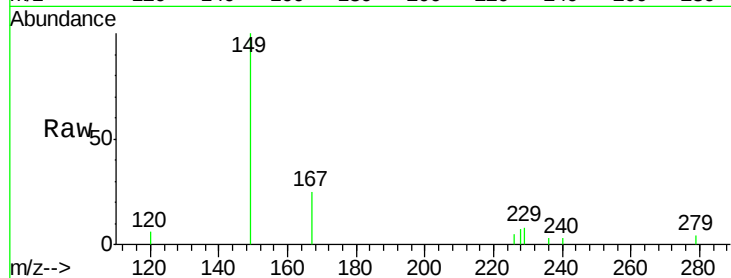
Tgt Ion:149 Resp: 4323

Ion Ratio Lower Upper

149 100

167 28.9 20.3 30.5

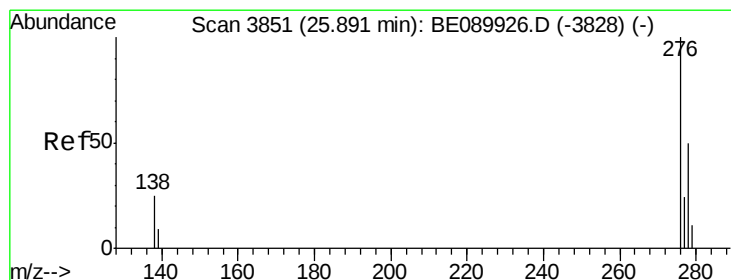
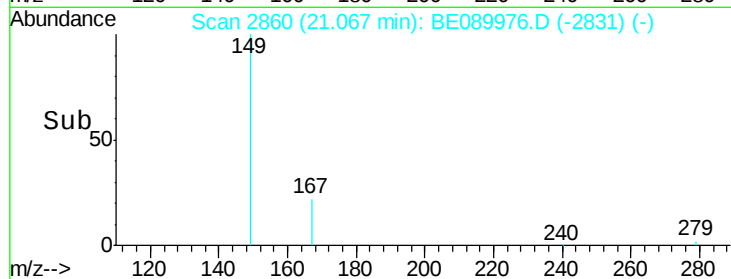
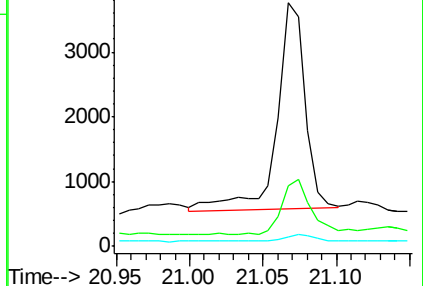
279 3.7 2.7 4.1



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



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.90 ng

RT: 25.88 min Scan# 3848

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

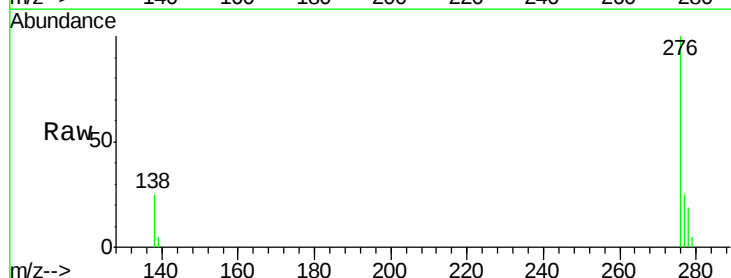
Tgt Ion:276 Resp: 31543

Ion Ratio Lower Upper

276 100

138 22.8 0.0 0.0#

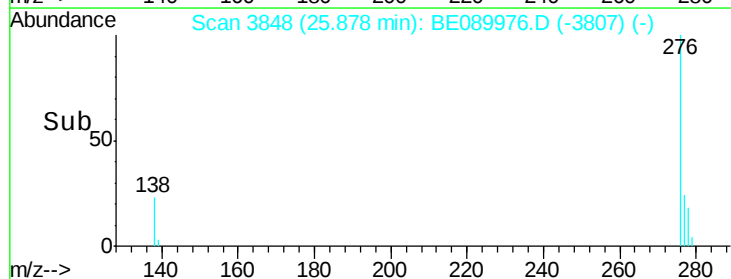
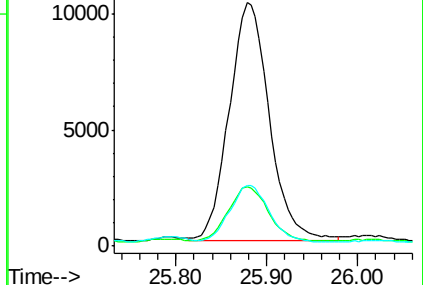
277 23.3 0.0 0.0#

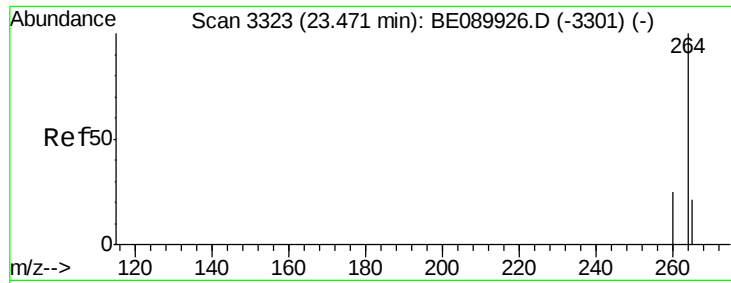


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

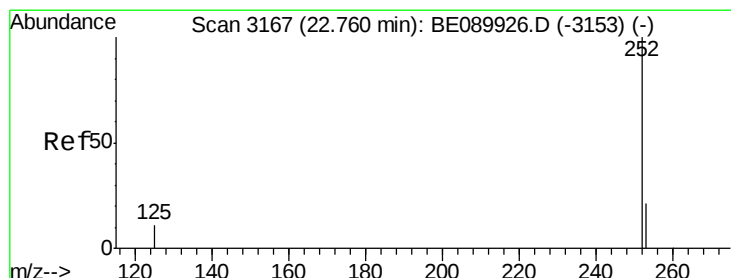
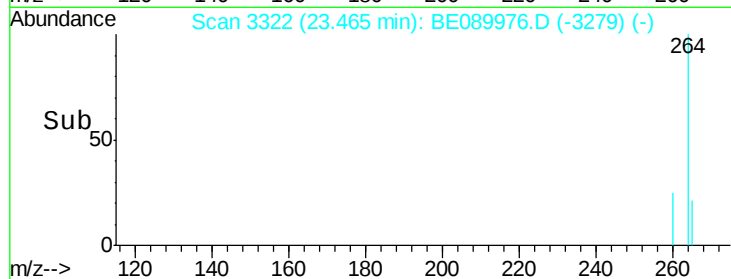
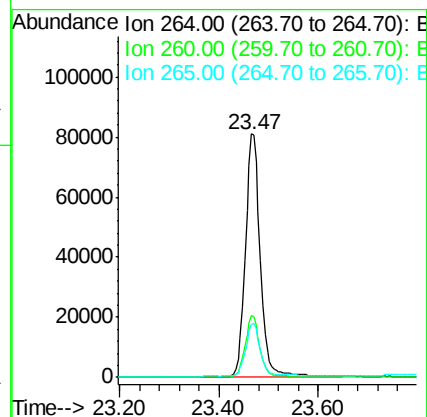
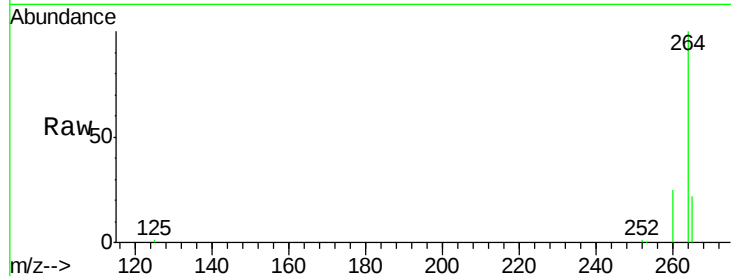




#32
Perylene-d12
Concen: 5.00 ng
RT: 23.47 min Scan# 3322
Delta R.T. -0.01 min
Lab File: BE089976.D
Acq: 27 Jun 2015 14:43

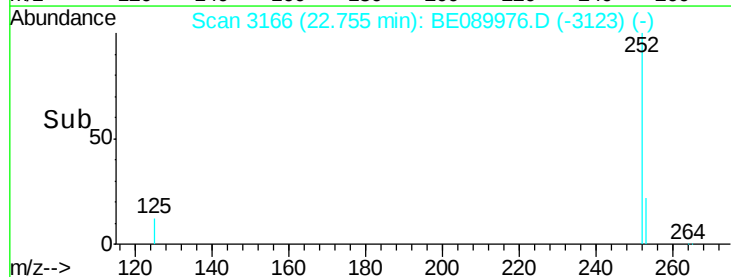
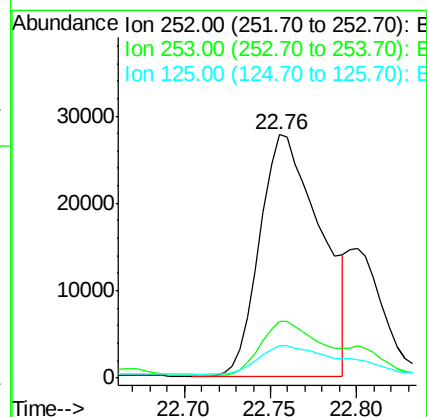
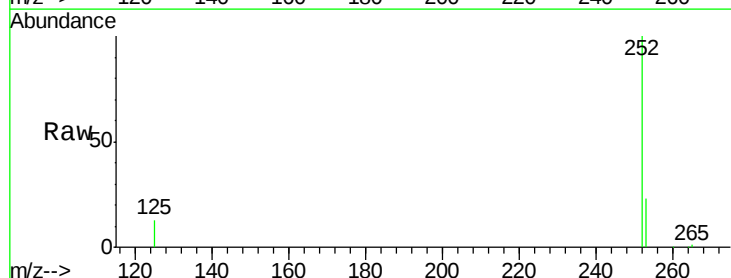
Instrument :
BNA_E
ClientSampleId :
X1SS0620204-150624

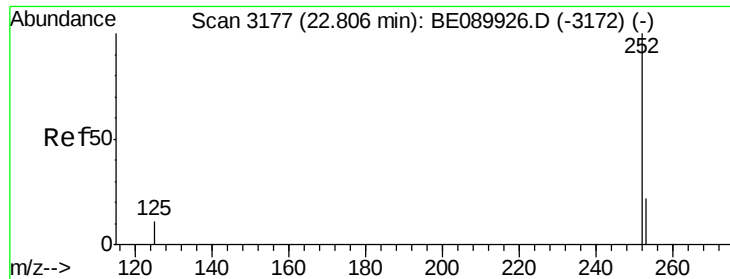
Tgt Ion: 264 Resp: 169503
Ion Ratio Lower Upper
264 100
260 25.3 19.8 29.6
265 21.7 17.3 25.9



#33
Benzo(b)fluoranthene
Concen: 1.89 ng
RT: 22.76 min Scan# 3166
Delta R.T. -0.01 min
Lab File: BE089976.D
Acq: 27 Jun 2015 14:43

Tgt Ion: 252 Resp: 67897
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 13.2 9.3 13.9





#34

Benzo(k)fluoranthene

Concen: 1.67 ng

RT: 22.76 min Scan# 3166

Delta R.T. -0.05 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

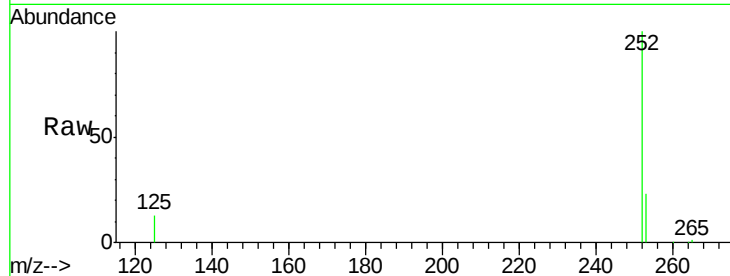
Tgt Ion:252 Resp: 67897

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

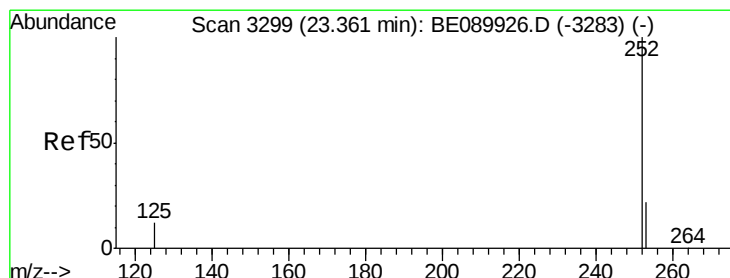
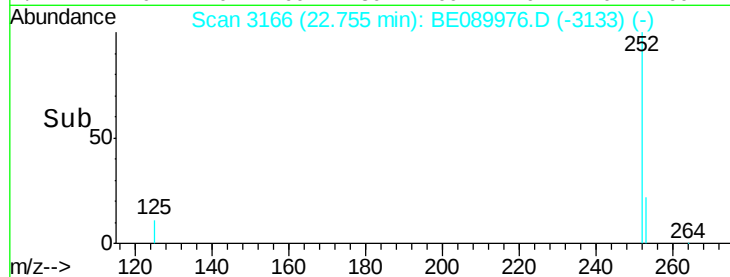
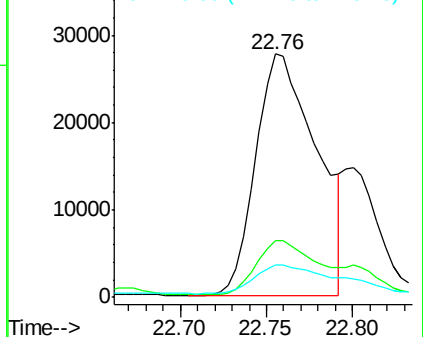
125 13.2 9.2 13.8



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



#35

Benzo(a)pyrene

Concen: 1.36 ng

RT: 23.36 min Scan# 3299

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

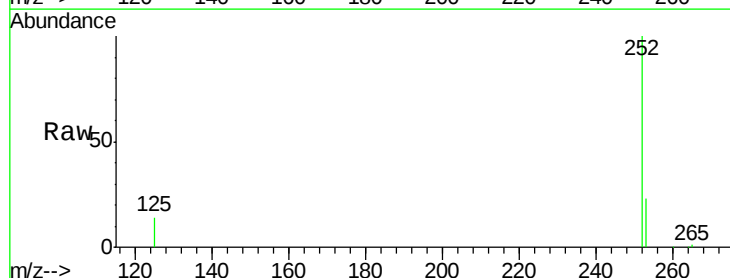
Tgt Ion:252 Resp: 43377

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

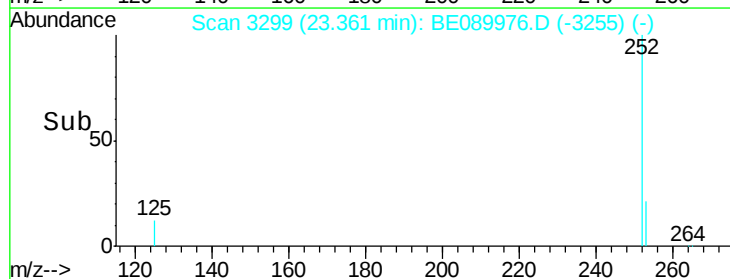
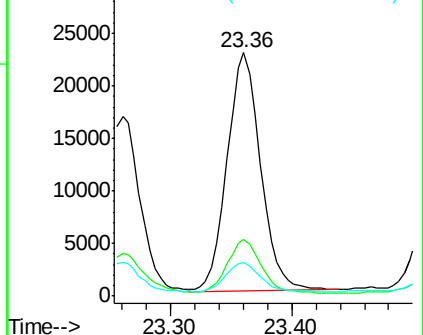
125 13.9 10.3 15.5

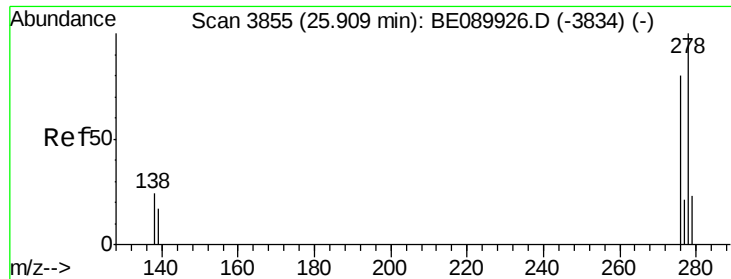


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#36

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 25.90 min Scan# 3852

Delta R.T. -0.01 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

Instrument :

BNA_E

ClientSampleId :

X1SS0620204-150624

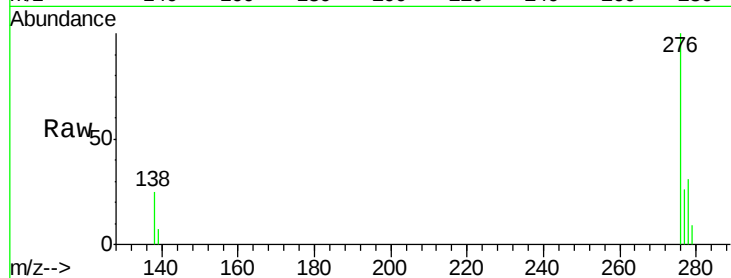
Tgt Ion: 278 Resp: 7477

Ion Ratio Lower Upper

278 100

139 23.4 14.1 21.1#

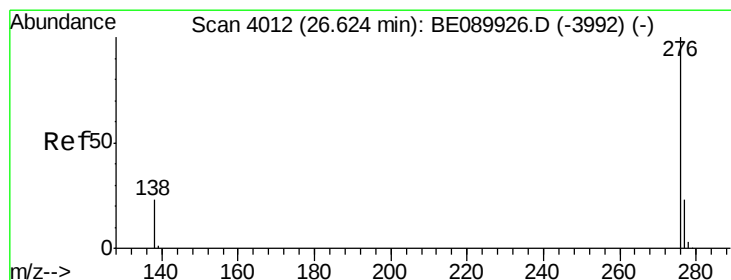
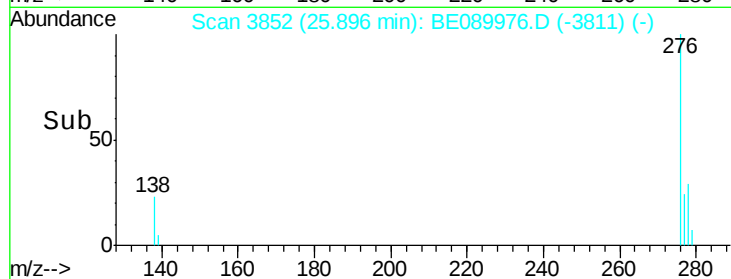
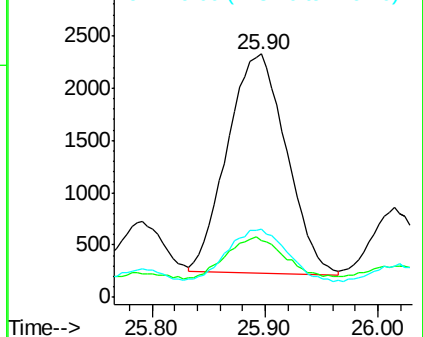
279 28.0 19.0 28.6



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



#37

Benzo(g,h,i)perylene

Concen: 1.09 ng

RT: 26.62 min Scan# 4011

Delta R.T. -0.00 min

Lab File: BE089976.D

Acq: 27 Jun 2015 14:43

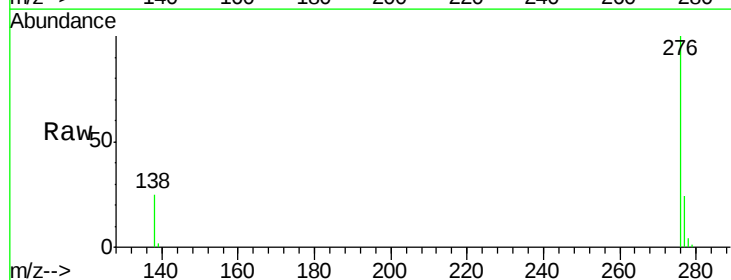
Tgt Ion: 276 Resp: 34680

Ion Ratio Lower Upper

276 100

277 24.2 19.0 28.4

138 24.8 18.8 28.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

