

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060315\
 Data File : BF079695.D
 Acq On : 4 Jun 2015 8:49
 Operator : TP/IZ
 Sample : G2420-34DL 5X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.19(5)DL

Manual Integrations
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Quant Time: Jun 04 15:24:59 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 04 14:55:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	87494	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	339348	20.00	ng	0.00
38) Acenaphthene-d10	10.59	164	185349	20.00	ng	0.00
63) Phenanthrene-d10	12.13	188	341549	20.00	ng	-0.01
75) Chrysene-d12	15.26	240	368690	20.00	ng	-0.13
86) Perylene-d12	17.31	264	349100	20.00	ng	-0.17
System Monitoring Compounds						
5) 2-Fluorophenol	6.14	112	115432	24.35	ng	0.00
7) Phenol-d6	7.11	99	160129	23.85	ng	0.00
23) Nitrobenzene-d5	8.07	82	66991	10.13	ng	-0.01
41) 2,4,6-Tribromophenol	11.39	330	26779	17.51	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	187755	12.17	ng	0.00
78) Terphenyl-d14	13.89	244	202976	11.61	ng	-0.07
Target Compounds						Qvalue
31) Naphthalene	8.83	128	97037	5.47	ng	99
37) 2-Methylnaphthalene	9.53	142	31131	2.63	ng	97
51) Acenaphthene	10.63	154	31306	2.78	ng	96
54) Dibenzofuran	10.80	168	51902	3.18	ng	97
57) Fluorene	11.14	166	45217	3.39	ng	99
70) Phenanthrene	12.15	178	565741	29.96	ng	99
71) Anthracene	12.21	178	98374	5.18	ng	98
72) Carbazole	12.35	167	60525	3.47	ng	96
74) Fluoranthene	13.47	202	523410	25.71	ng	91
77) Pyrene	13.74	202	431056	20.31	ng	99
80) Benzo(a)anthracene	15.25	228	229047	11.36	ng	98
82) Chrysene	15.29	228	195643	9.64	ng	98
85) Indeno(1,2,3-cd)pyrene	19.36	276	89744	4.52	ng	96
87) Benzo(b)fluoranthene	16.72	252	240011m	13.30	ng	
88) Benzo(k)fluoranthene	16.75	252	80873m	3.83	ng	
89) Benzo(a)pyrene	17.22	252	163237	9.25	ng	98
91) Benzo(a,h,i)perylene	19.98	276	85669	4.89	ng	98

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

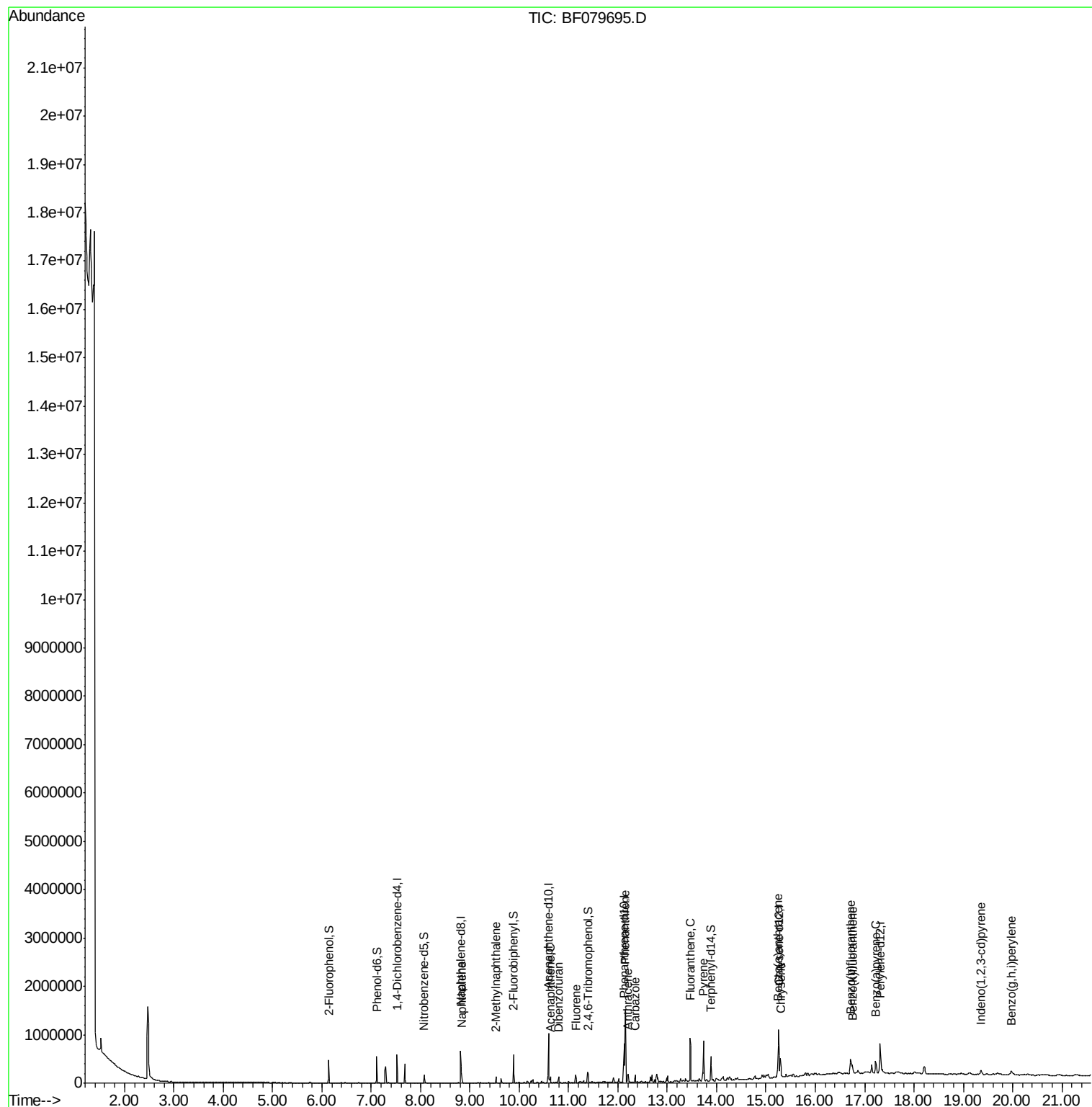
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060315\
Data File : BF079695.D
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Sample : G2420-34DL 5X
Misc :
ALS Vial : 41 Sample Multiplier: 1

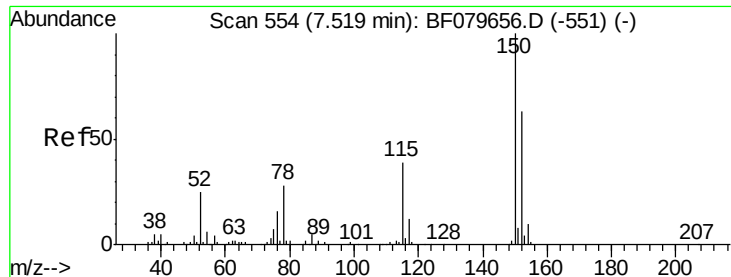
Instrument :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060315.M
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QLast Update : Thu Jun 04 14:55:40 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.52 min Scan# 554

Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

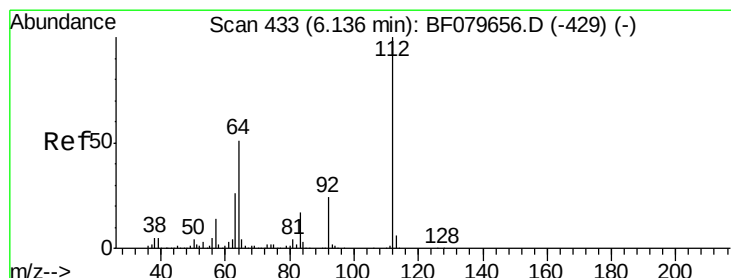
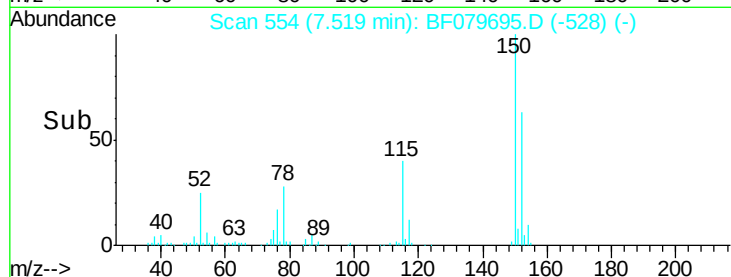
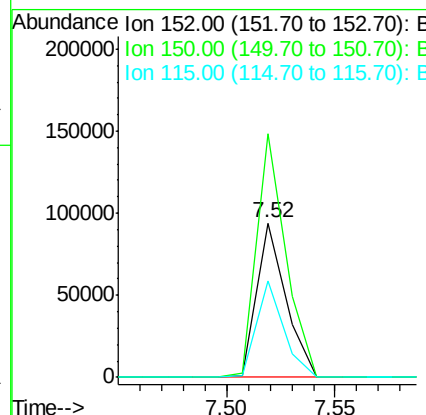
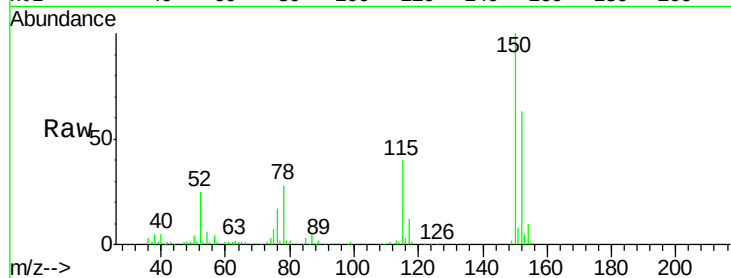
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	152	Resp:	87494
Ion Ratio	Lower	Upper	
152	100		
150	157.5	126.7	190.1
115	62.8	49.2	73.8

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#5

2-Fluorophenol

Concen: 24.35 ng

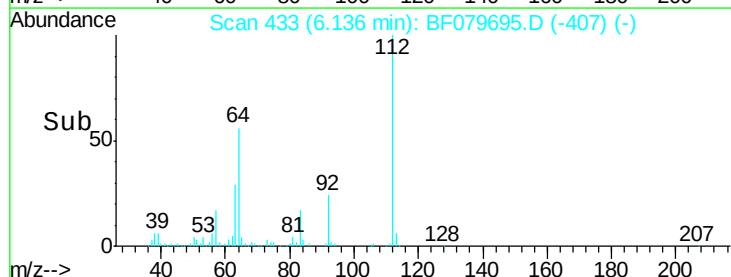
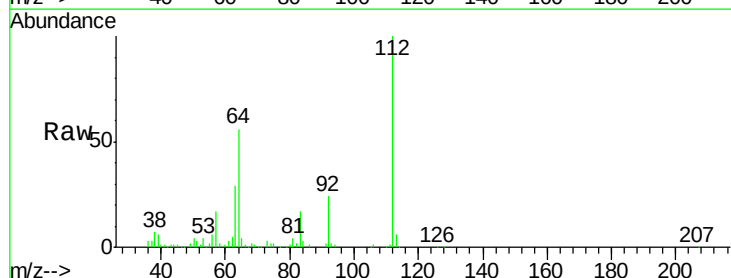
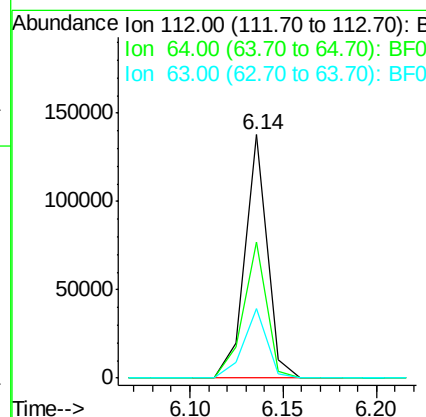
RT: 6.14 min Scan# 433

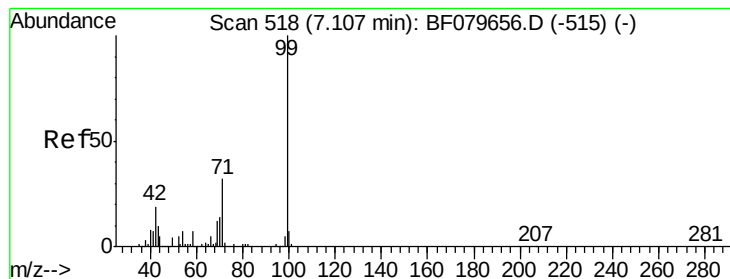
Delta R.T. 0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	112	Resp:	115432
Ion Ratio	Lower	Upper	
112	100		
64	55.9	41.1	61.7
63	28.6	20.5	30.7





#7

Phenol-d6

Concen: 23.85 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

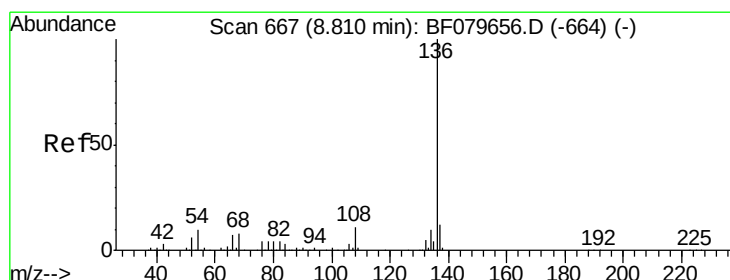
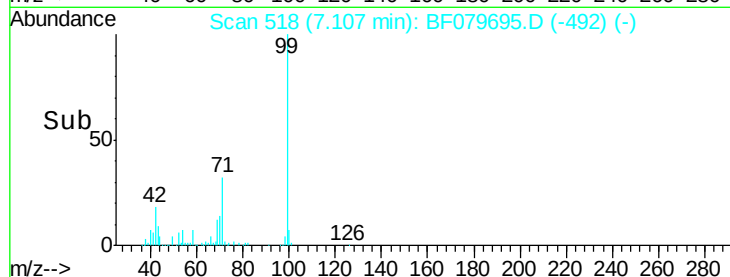
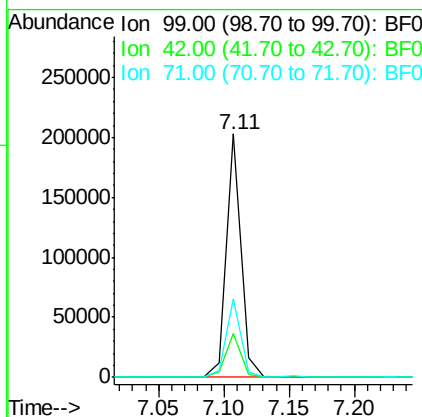
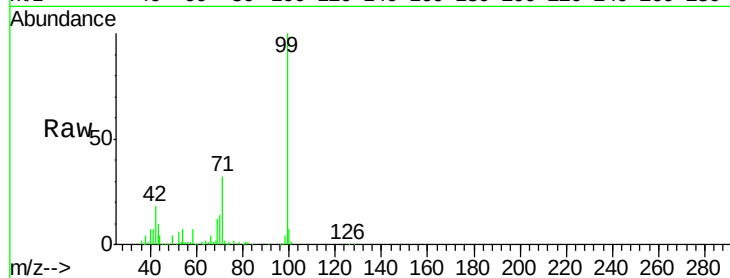
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	99	Resp:	160129
Ion Ratio	Lower	Upper	
99	100		
42	17.9	15.2	22.8
71	32.3	25.9	38.9

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#21

Naphthalene-d8

Concen: 20.00 ng

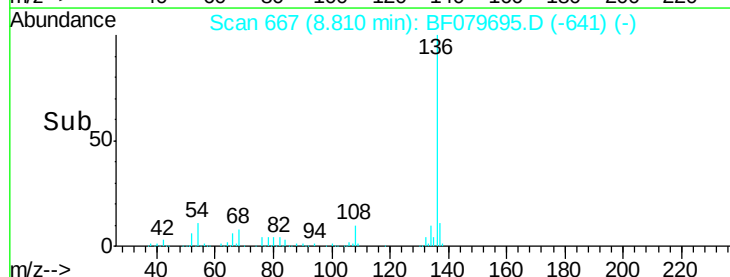
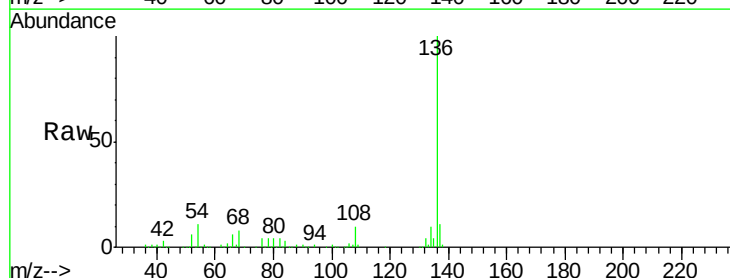
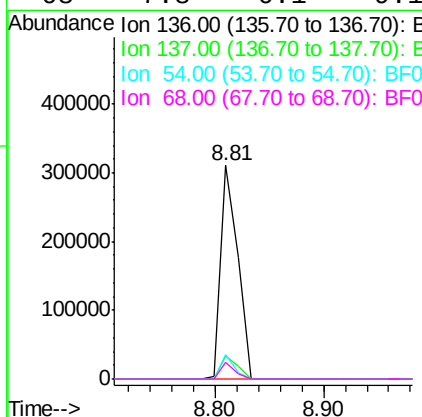
RT: 8.81 min Scan# 667

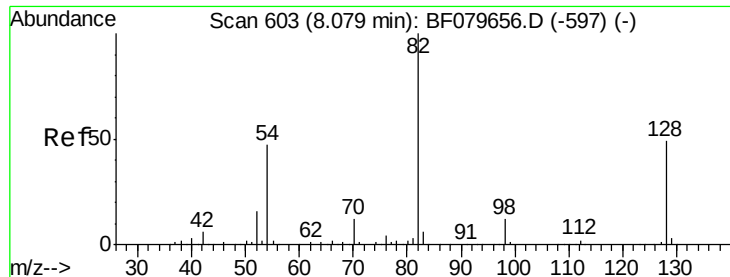
Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	136	Resp:	339348
Ion Ratio	Lower	Upper	
136	100		
137	10.9	9.3	13.9
54	11.3	8.3	12.5
68	7.8	6.1	9.1





#23

Nitrobenzene-d5

Concen: 10.13 ng

RT: 8.07 min Scan# 602

Delta R.T. -0.01 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

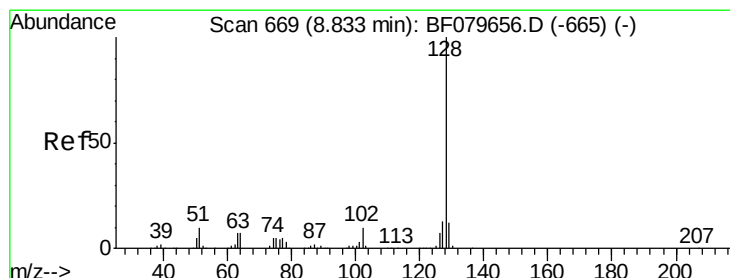
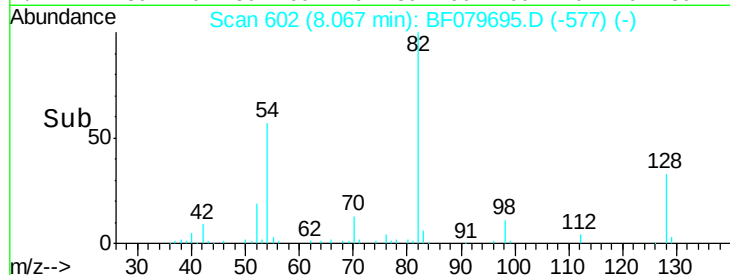
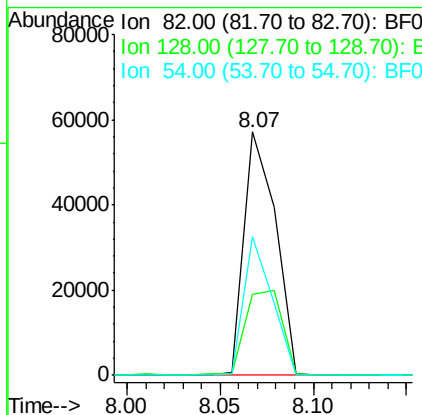
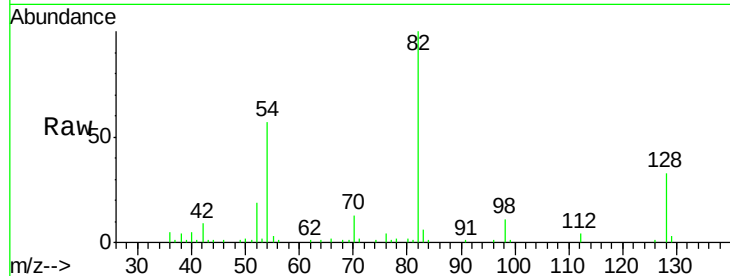
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	82	Resp:	66991
Ion Ratio		Lower	Upper
82	100		
128	33.4	39.4	59.0#
54	57.1	37.4	56.0#

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#31

Naphthalene

Concen: 5.47 ng

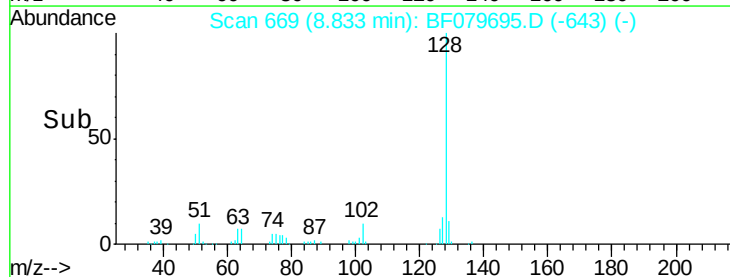
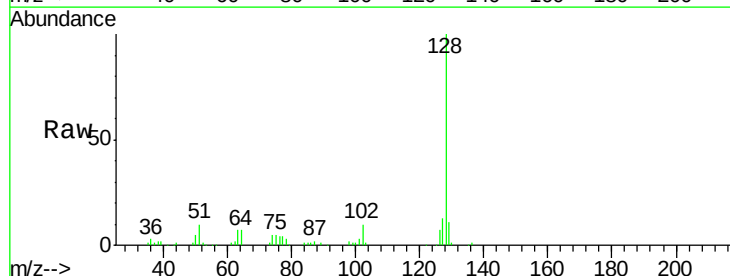
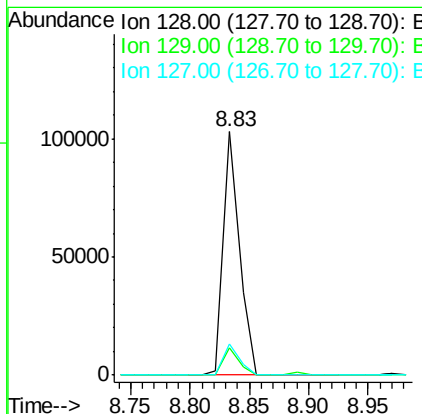
RT: 8.83 min Scan# 669

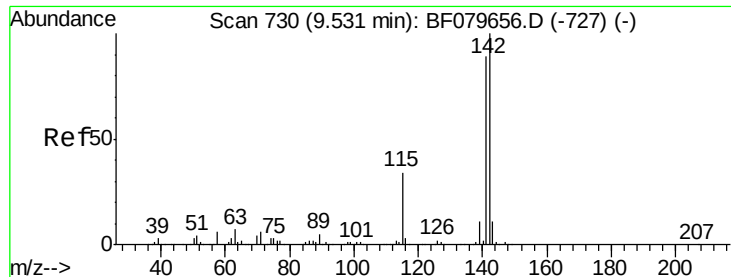
Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	128	Resp:	97037
Ion Ratio		Lower	Upper
128	100		
129	11.2	9.3	13.9
127	12.9	10.4	15.6





#37

2-Methylnaphthalene

Concen: 2.63 ng

RT: 9.53 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

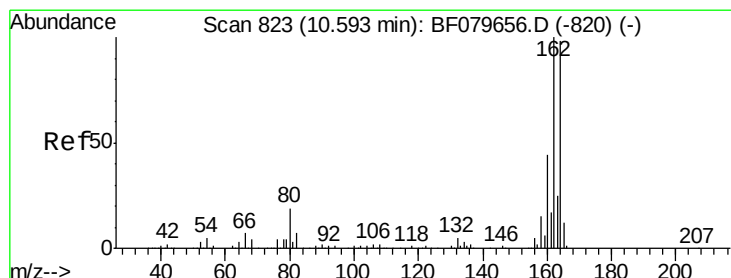
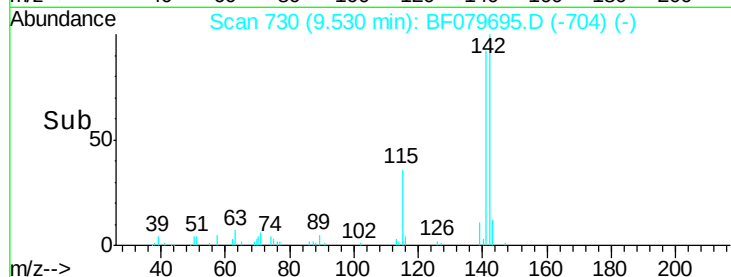
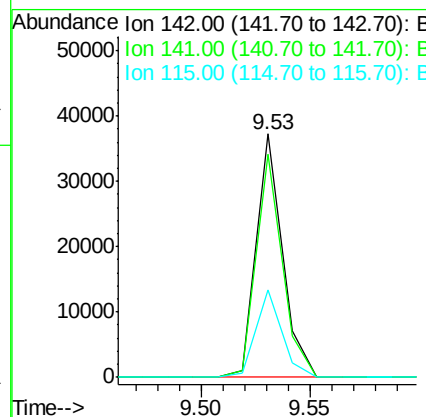
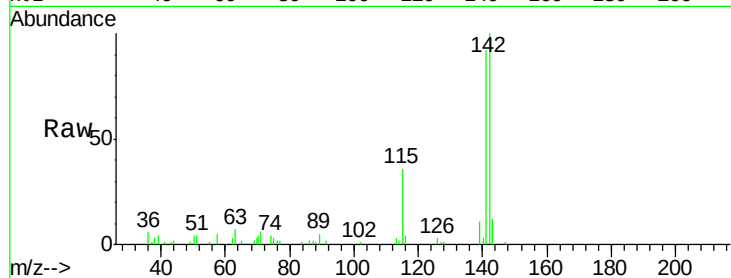
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	142	Resp:	31131
Ion Ratio	Lower	Upper	
142	100		
141	91.5	71.4	107.0
115	35.8	27.3	40.9

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#38

Acenaphthene-d10

Concen: 20.00 ng

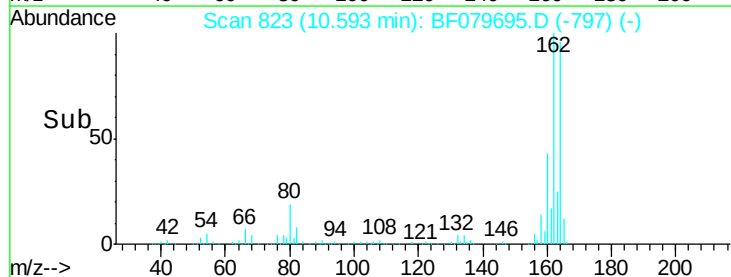
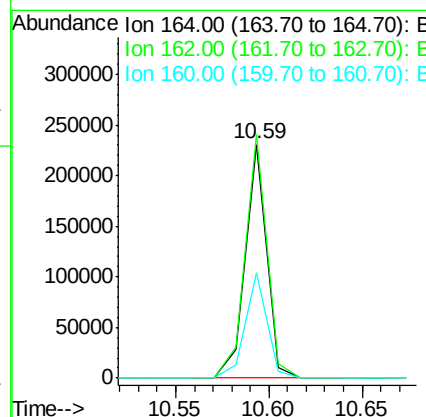
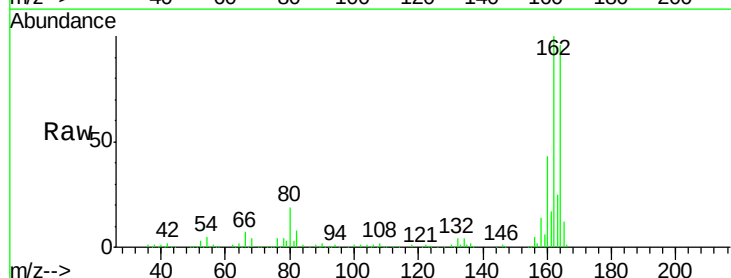
RT: 10.59 min Scan# 823

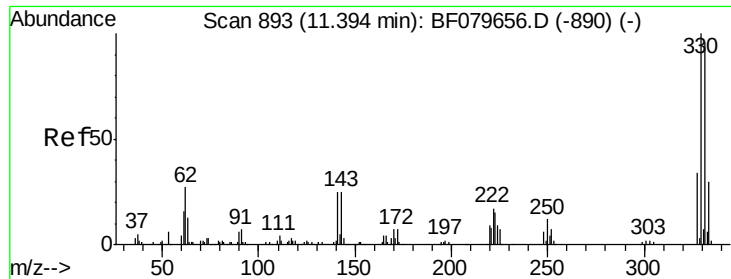
Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	164	Resp:	185349
Ion Ratio	Lower	Upper	
164	100		
162	104.2	82.0	123.0
160	45.3	35.9	53.9





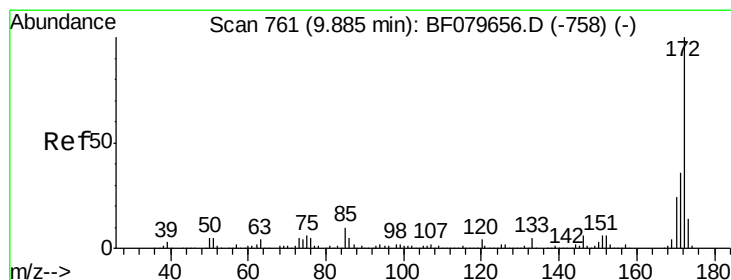
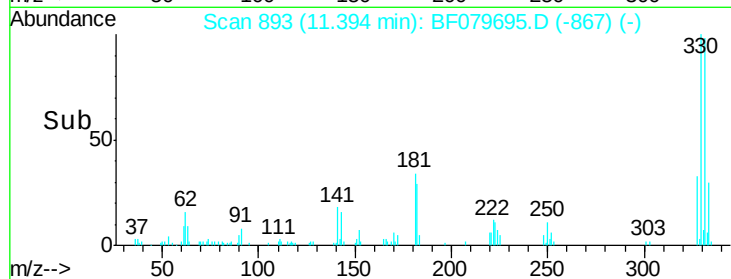
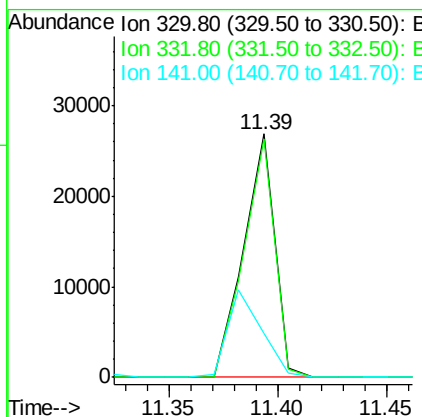
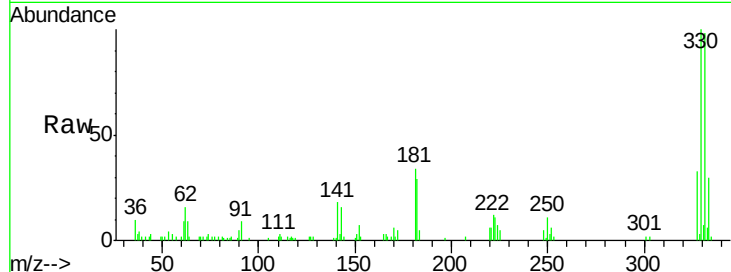
#41
 2,4,6-Tribromophenol
 Concen: 17.51 ng
 RT: 11.39 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: BF079695.D
 Acq: 4 Jun 2015 8:49

Instrument :
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 ClientSampleId :
 PENRD8.19(5)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.3	115.9
141	39.1	27.4	41.2

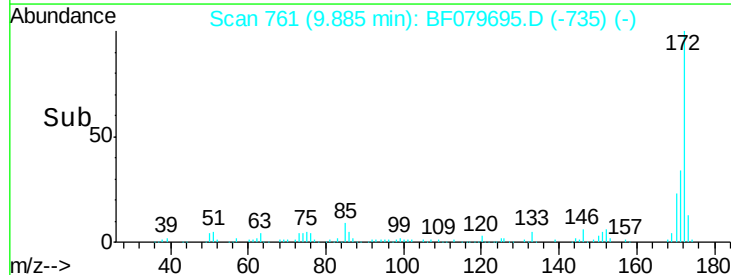
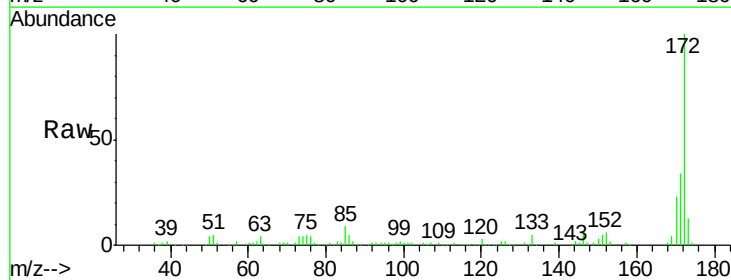
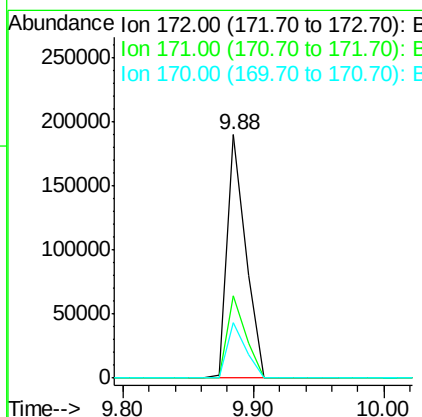
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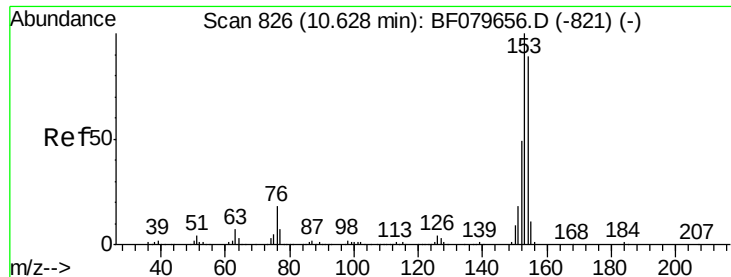
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#44
 2-Fluorobiphenyl
 Concen: 12.17 ng
 RT: 9.88 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: BF079695.D
 Acq: 4 Jun 2015 8:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	28.8	43.2
170	22.9	19.2	28.8





#51

Acenaphthene

Concen: 2.78 ng

RT: 10.63 min Scan# 826

Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

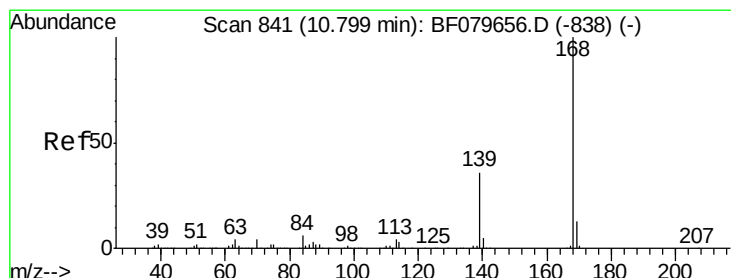
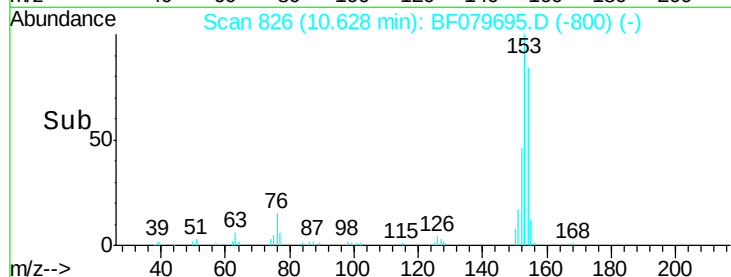
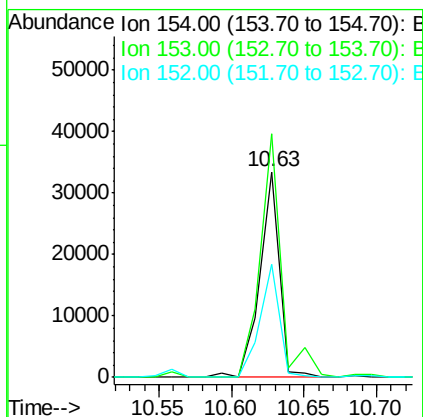
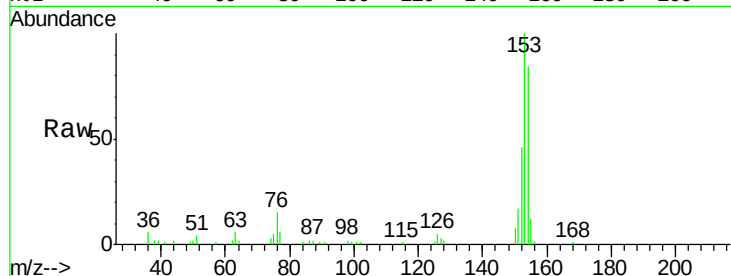
ClientSampleID :

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Tot Ion:	154	Resp:	31306
Ion Ratio	Lower	Upper	
154	100		
153	118.4	89.8	134.6
152	54.8	43.8	65.8

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#54

Dibenzofuran

Concen: 3.18 ng

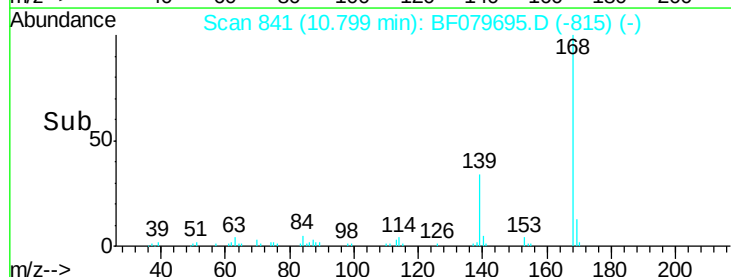
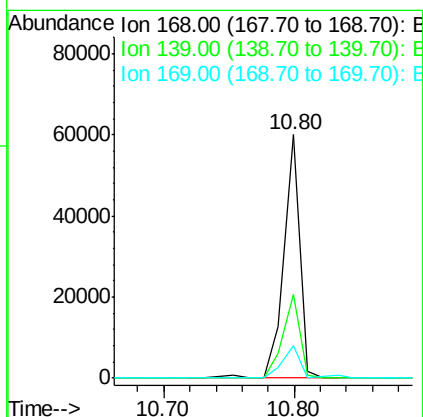
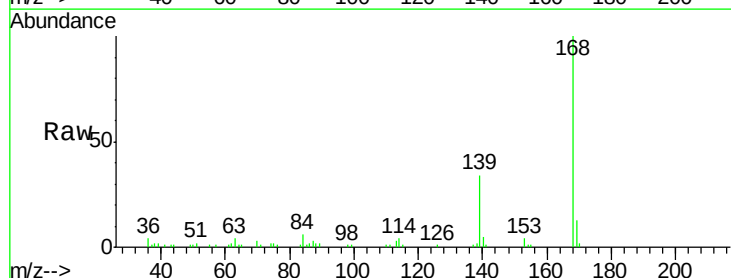
RT: 10.80 min Scan# 841

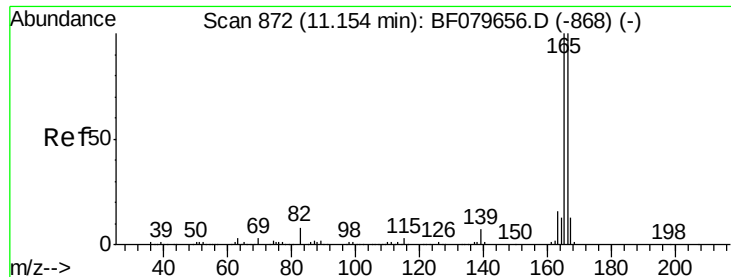
Delta R.T. -0.00 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	168	Resp:	51902
Ion Ratio	Lower	Upper	
168	100		
139	34.2	29.1	43.7
169	13.3	10.7	16.1





#57

Fluorene

Concen: 3.39 ng

RT: 11.14 min Scan# 871

Delta R.T. -0.01 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

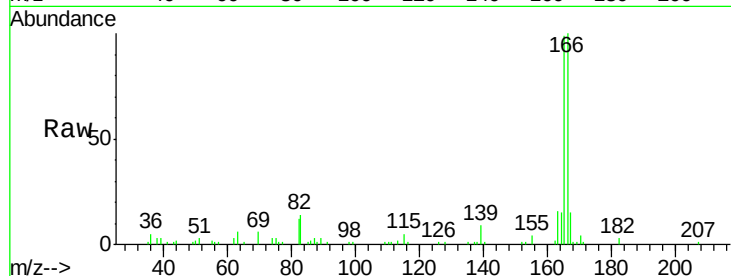
ClientSampleId :

PENRD8.19(5)DL

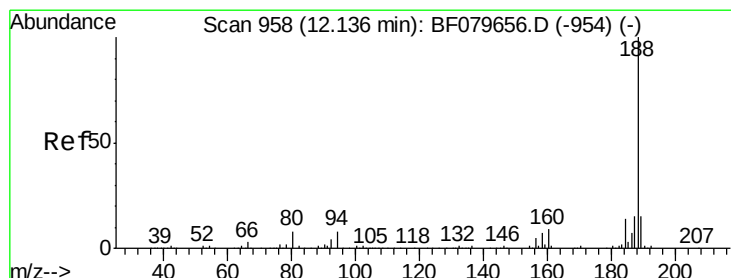
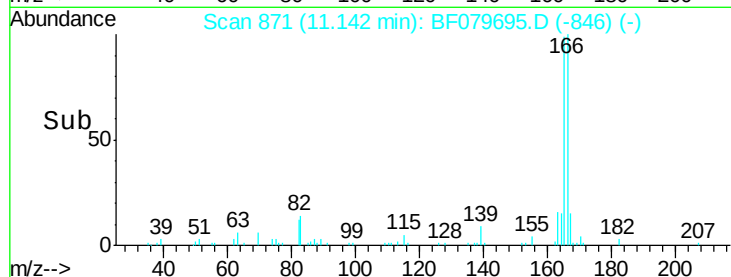
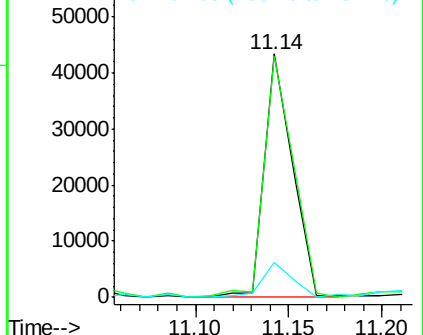
Tot Ion:	166	Resp:	45217
Ion Ratio	Lower	Upper	
166	100		
165	99.0	79.8	119.6
167	14.6	10.6	15.8

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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



#63

Phenanthrene-d10

Concen: 20.00 ng

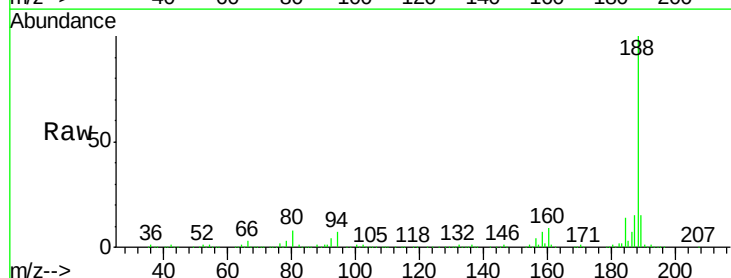
RT: 12.13 min Scan# 957

Delta R.T. -0.01 min

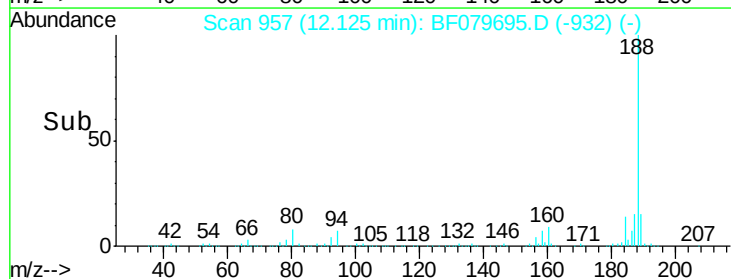
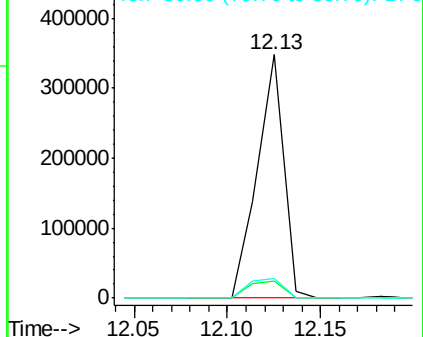
Lab File: BF079695.D

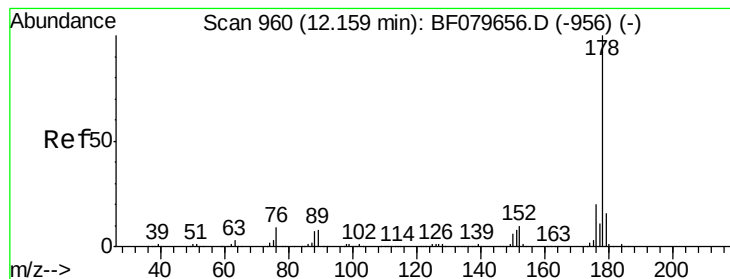
Acq: 4 Jun 2015 8:49

Tgt Ion:	188	Resp:	341549
Ion Ratio	Lower	Upper	
188	100		
94	6.9	6.1	9.1
80	8.0	6.2	9.2



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 29.96 ng

RT: 12.15 min Scan# 959

Delta R.T. -0.01 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

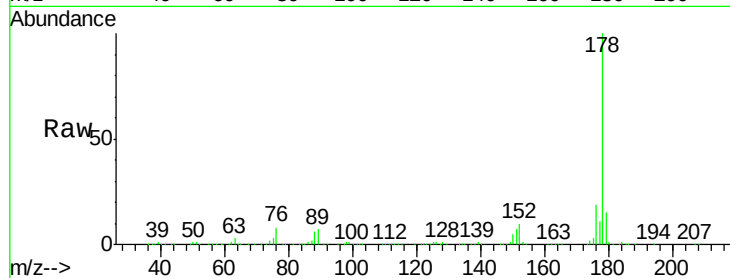
ClientSampleId :

PENRD8.19(5)DL

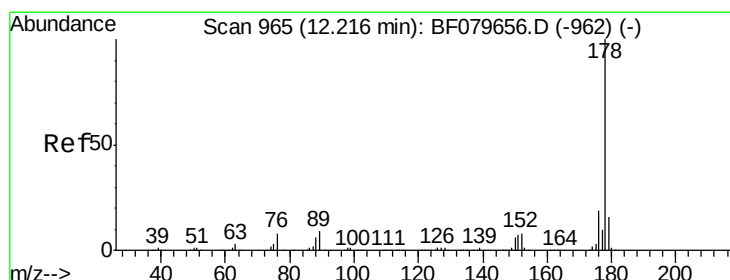
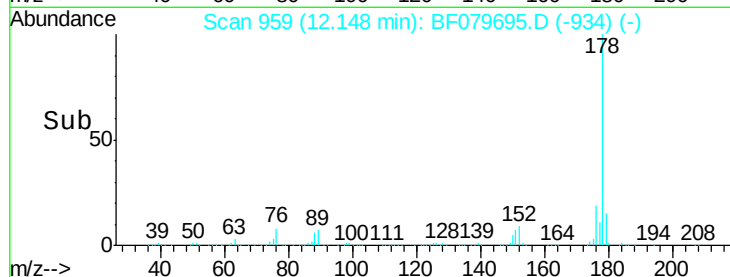
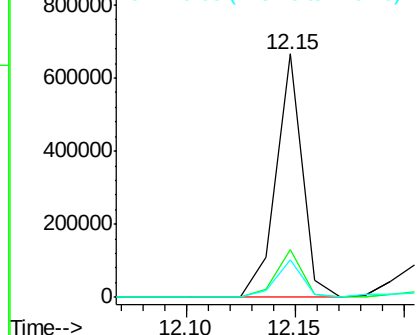
Tot Ion:178	Resp:	565741
Ion Ratio	Lower	Upper
178	100	
176	19.4	15.8 23.8
179	15.4	12.7 19.1

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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



#71

Anthracene

Concen: 5.18 ng

RT: 12.21 min Scan# 964

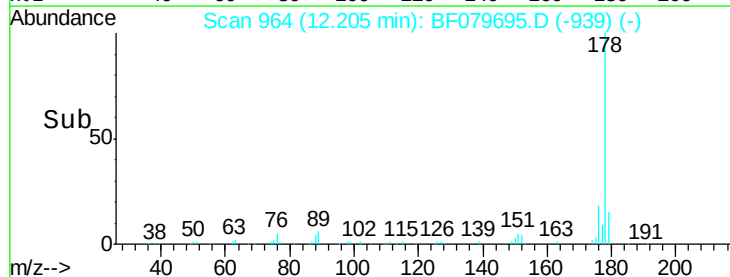
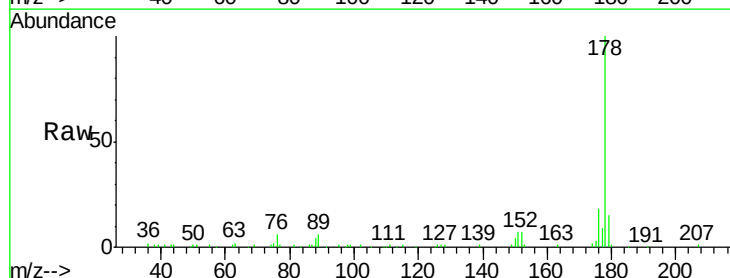
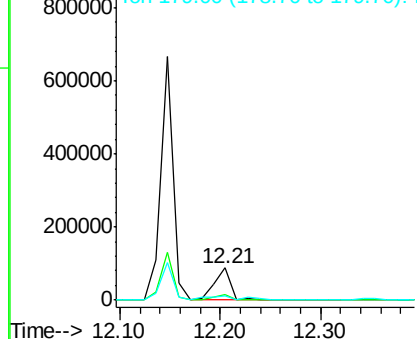
Delta R.T. -0.01 min

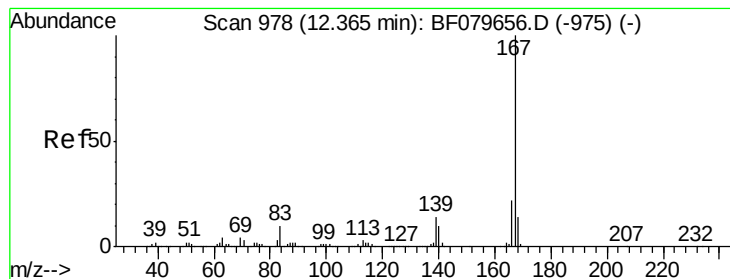
Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:178	Resp:	98374
Ion Ratio	Lower	Upper
178	100	
176	17.8	15.4 23.0
179	15.1	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





#72

Carbazole

Concen: 3.47 ng

RT: 12.35 min Scan# 977

Delta R.T. -0.01 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

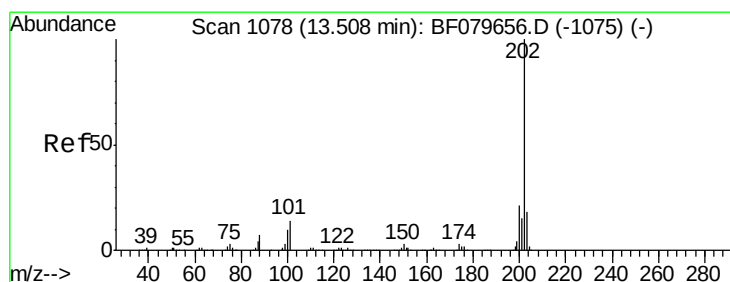
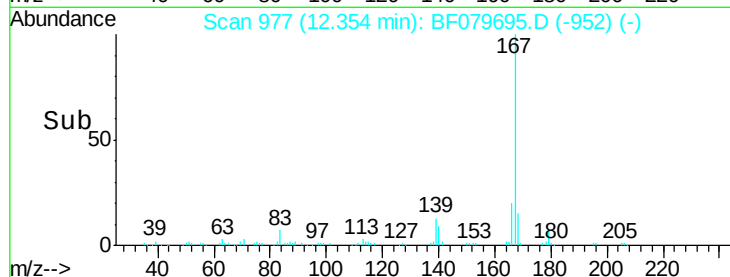
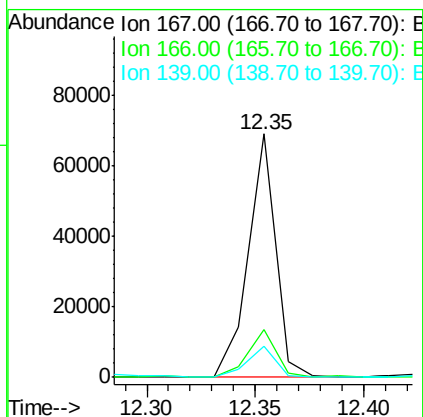
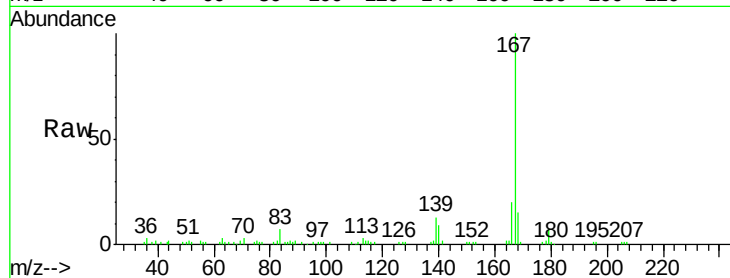
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	167	Resp:	60525
Ion Ratio	Lower	Upper	
167	100		
166	19.8	17.4	26.2
139	12.5	11.3	16.9

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#74

Fluoranthene

Concen: 25.71 ng

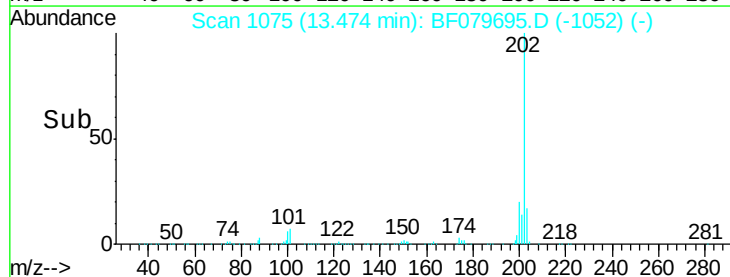
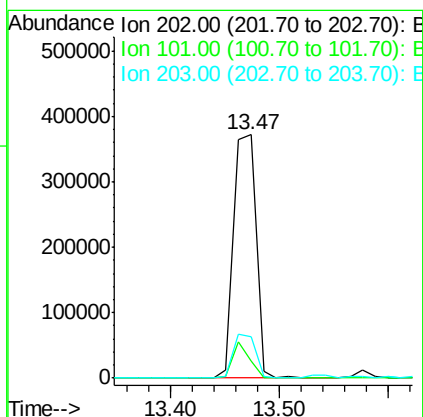
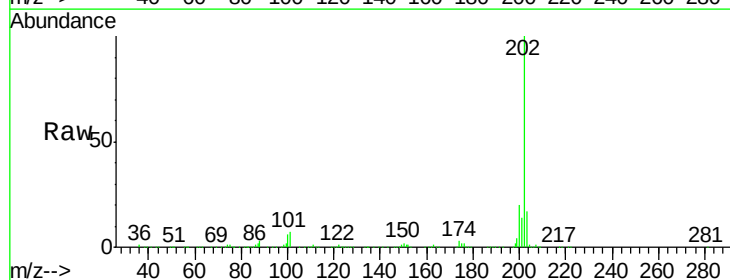
RT: 13.47 min Scan# 1075

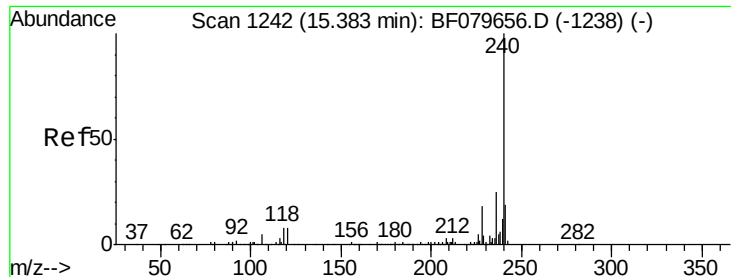
Delta R.T. -0.03 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	202	Resp:	523410
Ion Ratio	Lower	Upper	
202	100		
101	7.0	0.0	34.0
203	16.8	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.26 min Scan# 1231

Delta R.T. -0.13 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

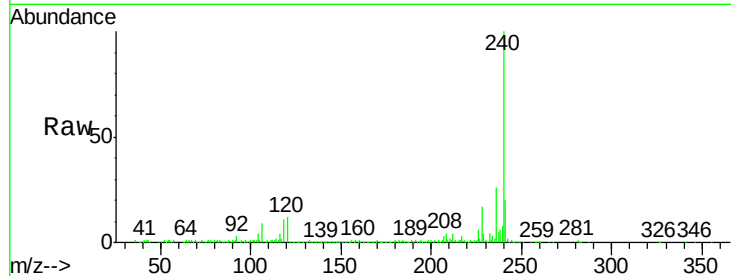
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	240	Resp:	368690
Ion Ratio	Lower	Upper	
240	100		
120	12.2	6.4	9.6#
236	25.7	20.2	30.4

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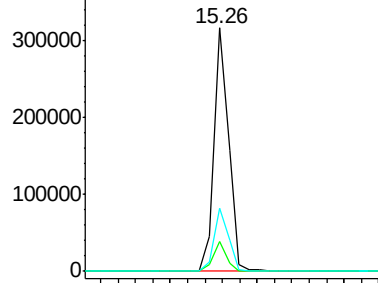
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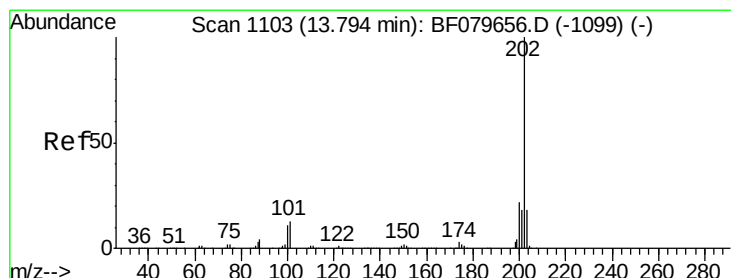
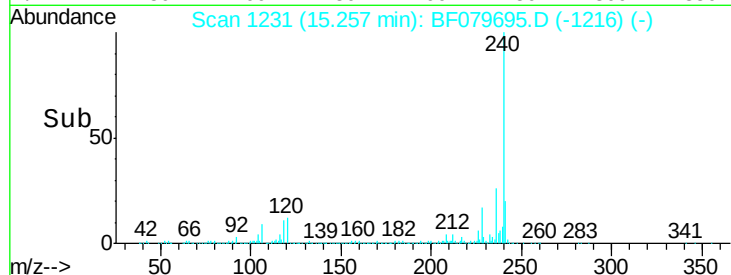
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 20.31 ng

RT: 13.74 min Scan# 1098

Delta R.T. -0.06 min

Lab File: BF079695.D

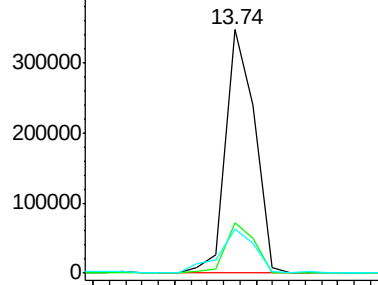
Acq: 4 Jun 2015 8:49

Tgt Ion:	202	Resp:	431056
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.4	26.0
203	18.1	14.5	21.7

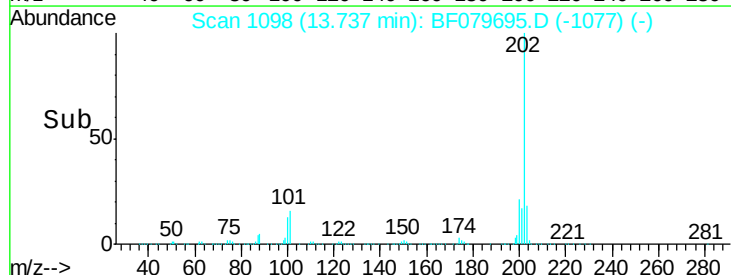
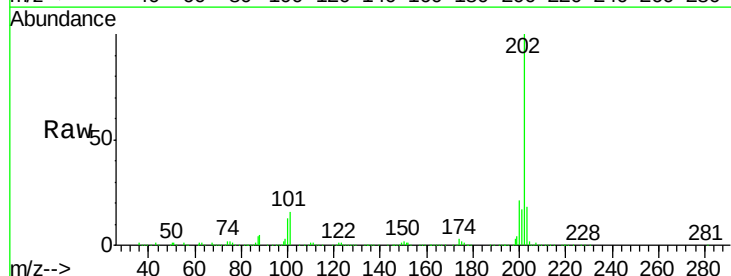
Abundance Ion 202.00 (201.70 to 202.70): E

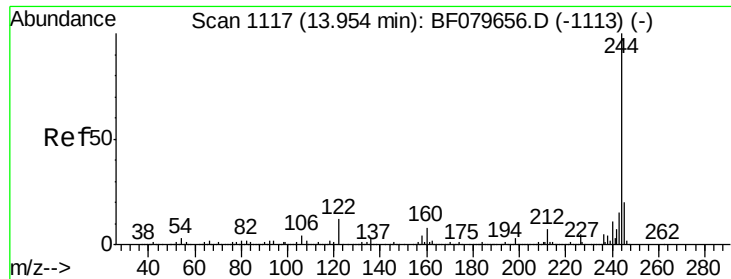
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#78

Terphenyl-d14

Concen: 11.61 ng

RT: 13.89 min Scan# 1111

Delta R.T. -0.07 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

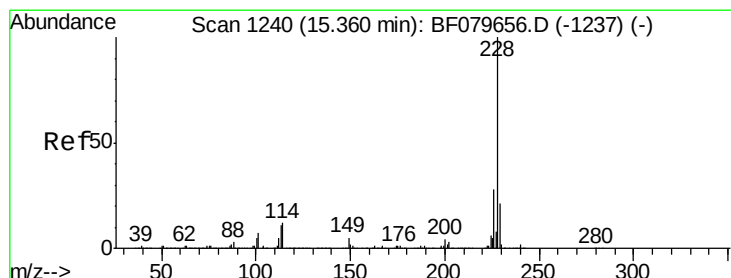
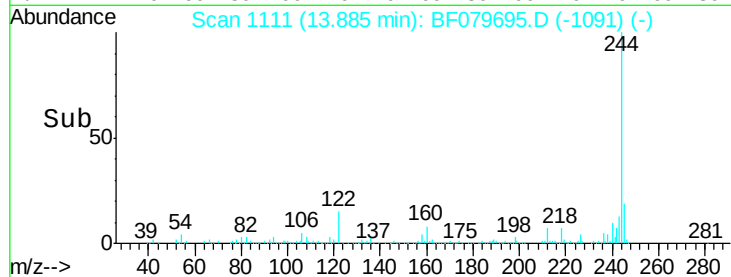
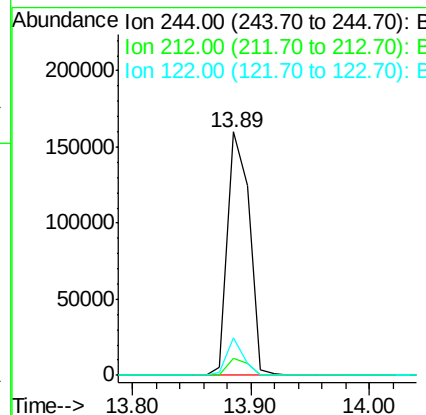
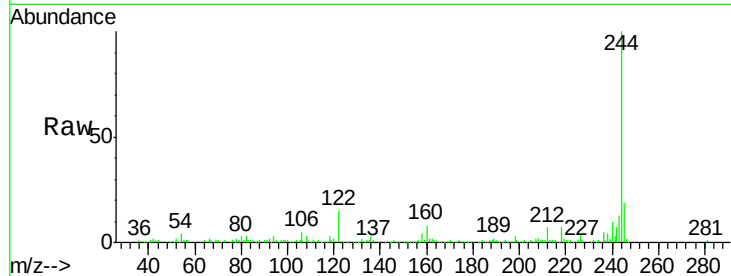
ClientSampleId :

PENRD8.19(5)DL

Tot Ion:	244	Resp:	202976
Ion Ratio		Lower	Upper
244	100		
212	7.2	5.9	8.9
122	15.3	9.8	14.6

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#80

Benzo(a)anthracene

Concen: 11.36 ng

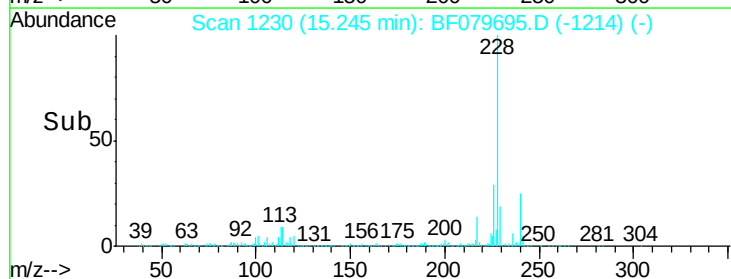
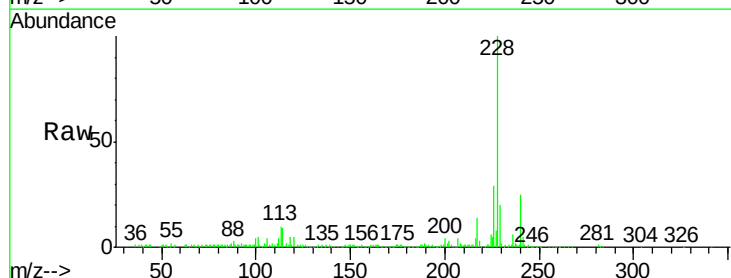
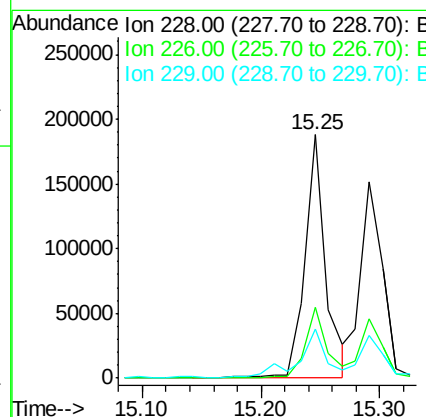
RT: 15.25 min Scan# 1230

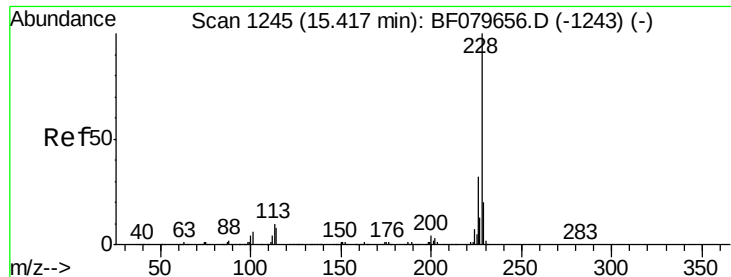
Delta R.T. -0.11 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Tgt Ion:	228	Resp:	229047
Ion Ratio		Lower	Upper
228	100		
226	29.1	22.5	33.7
229	19.9	16.6	24.8





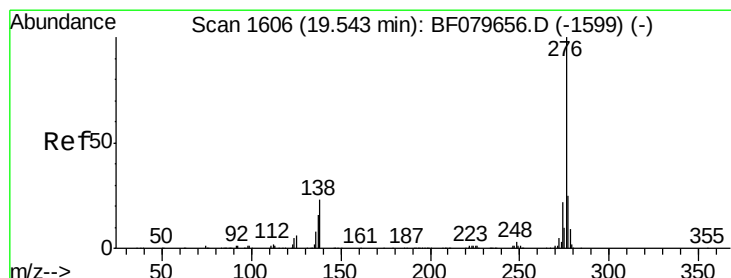
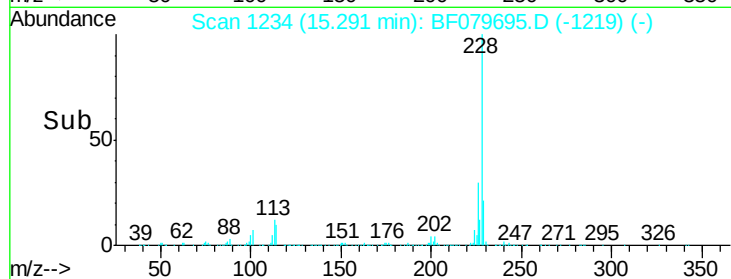
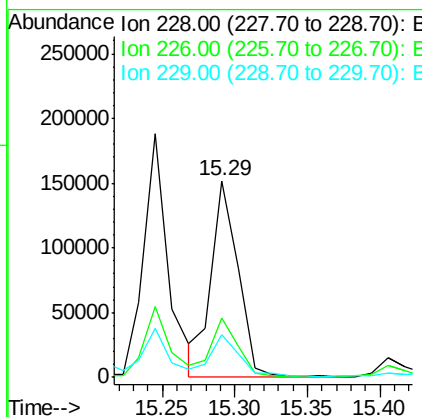
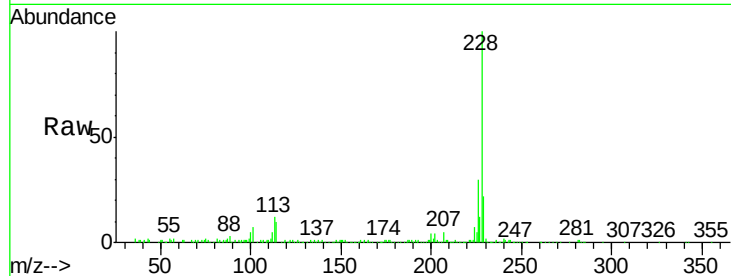
#82
Chrysene
Concen: 9.64 ng
RT: 15.29 min Scan# 1234
Delta R.T. -0.13 min
Lab File: BF079695.D
Acq: 4 Jun 2015 8:49

Instrument :
BNA_F
ClientSampleID :
PENRD8.19(5)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.2	37.8
229	21.7	16.3	24.5

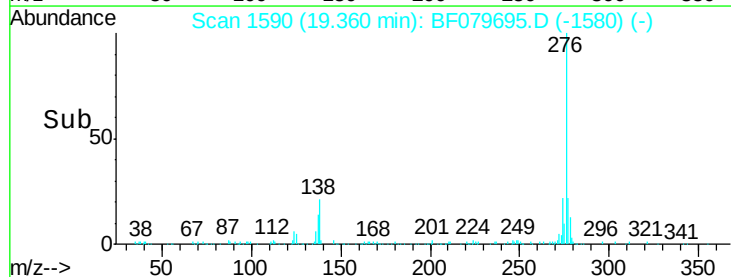
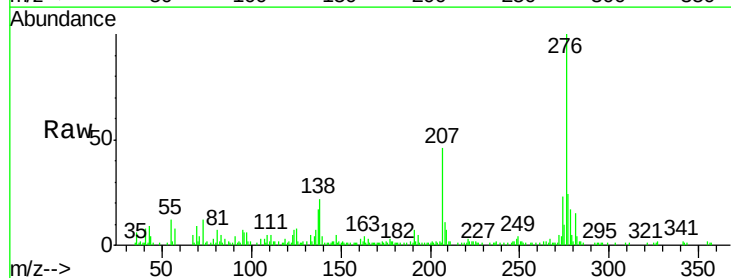
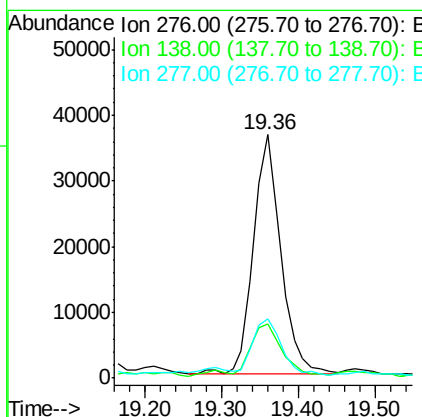
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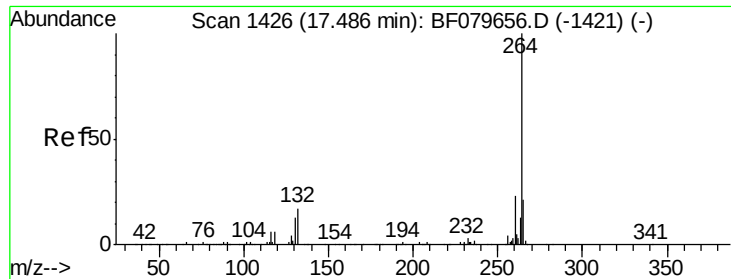
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#85
Indeno(1,2,3-cd)pyrene
Concen: 4.52 ng
RT: 19.36 min Scan# 1590
Delta R.T. -0.18 min
Lab File: BF079695.D
Acq: 4 Jun 2015 8:49

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.7	21.9	32.9
277	24.5	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.31 min Scan# 1411

Delta R.T. -0.17 min

Lab File: BF079695.D

Acq: 4 Jun 2015 8:49

Instrument :

BNA_F

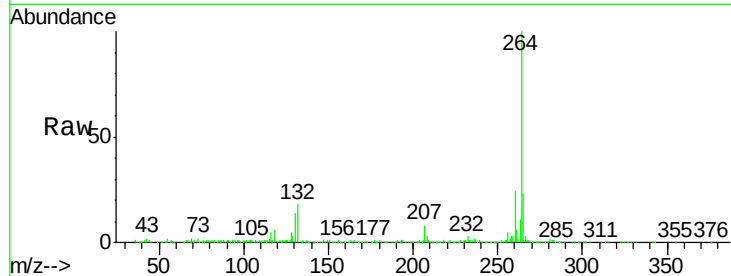
ClientSampleId :

PENRD8.19(5)DL

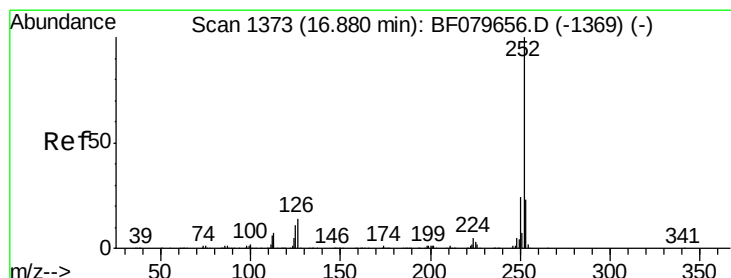
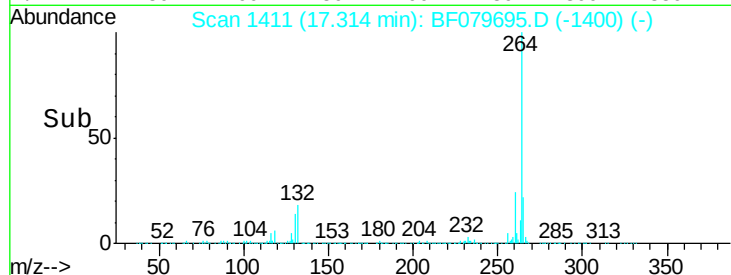
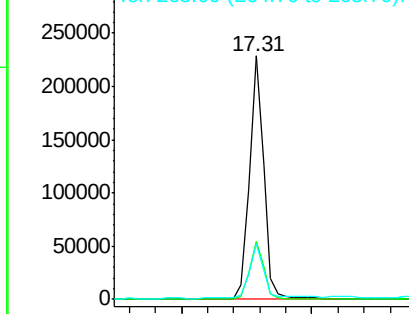
Tot Ion:	264	Resp:	349100
Ion Ratio	Lower	Upper	
264	100		
260	24.0	18.8	28.2
265	22.6	17.4	26.0

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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



#87

Benzo(b)fluoranthene

Concen: 13.30 ng m

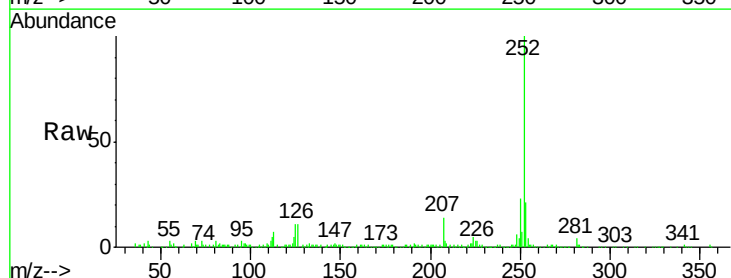
RT: 16.72 min Scan# 1359

Delta R.T. -0.16 min

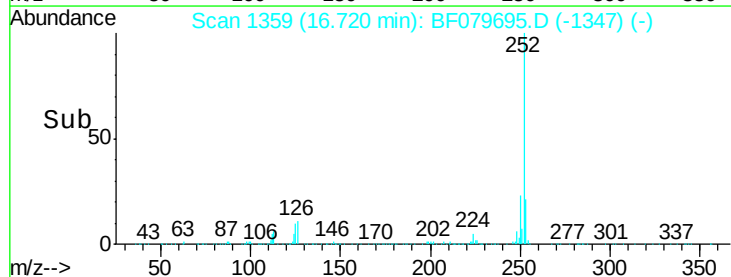
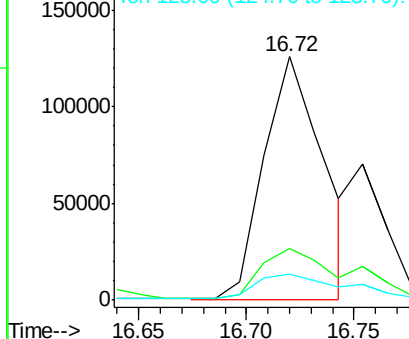
Lab File: BF079695.D

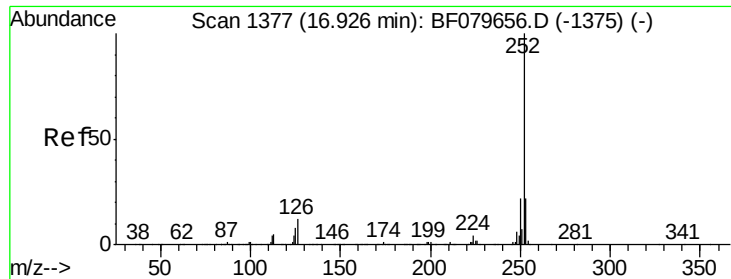
Acq: 4 Jun 2015 8:49

Tgt Ion:	252	Resp:	240011
Ion Ratio	Lower	Upper	
252	100		
253	21.3	18.0	27.0
125	10.9	8.7	13.1



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





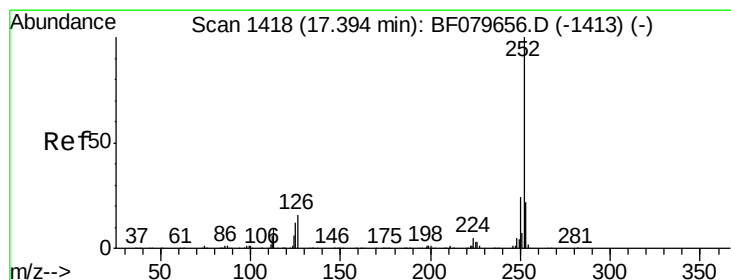
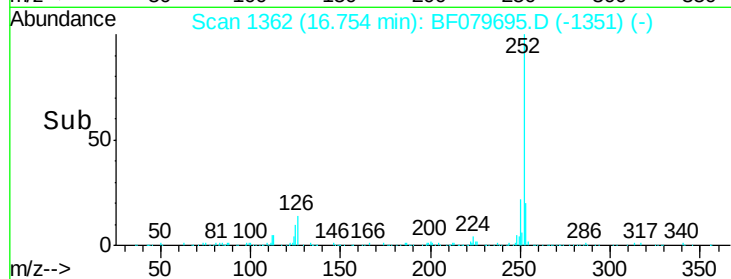
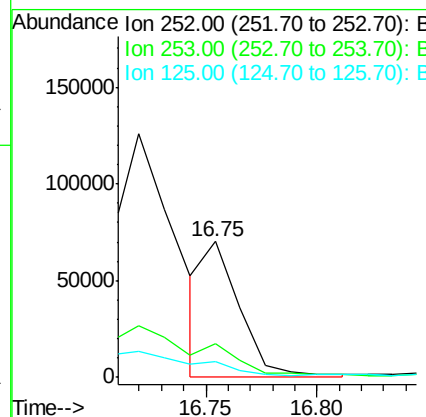
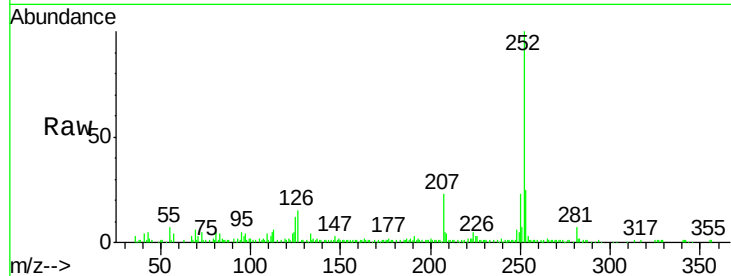
#88
Benzo(k)fluoranthene
Concen: 3.83 ng m
RT: 16.75 min Scan# 1362
Delta R.T. -0.17 min
Lab File: BF079695.D
Acq: 4 Jun 2015 8:49

Instrument :
BNA_F
ClientSampleId :
PENRD8.19(5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.4	26.2
125	11.9	7.1	10.7

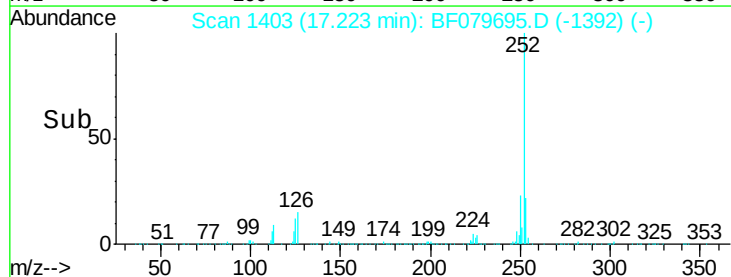
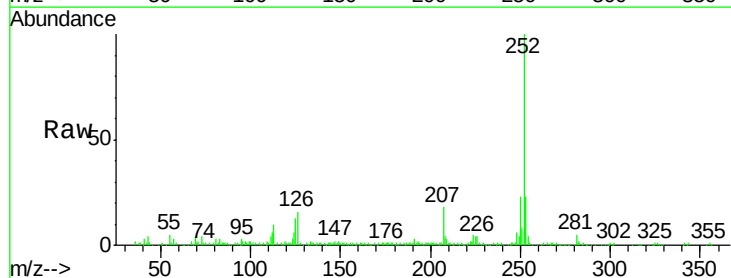
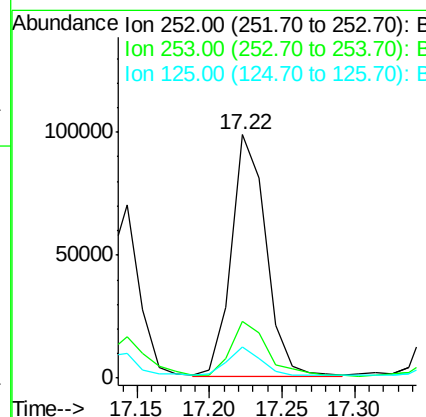
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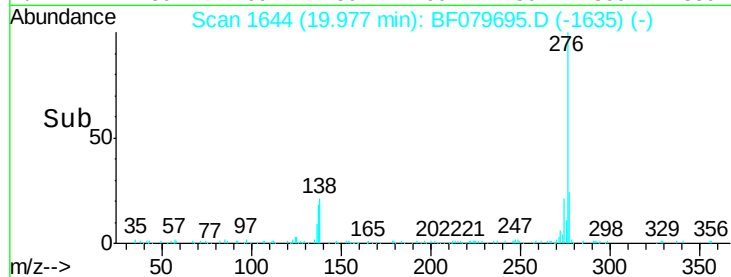
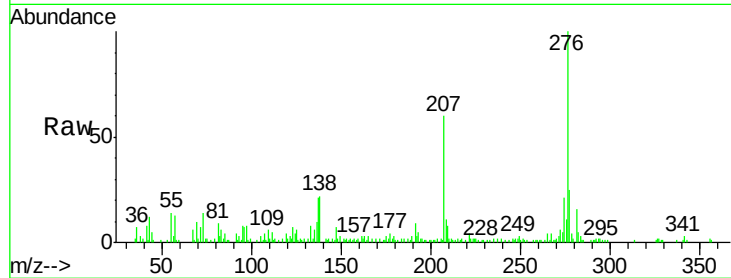
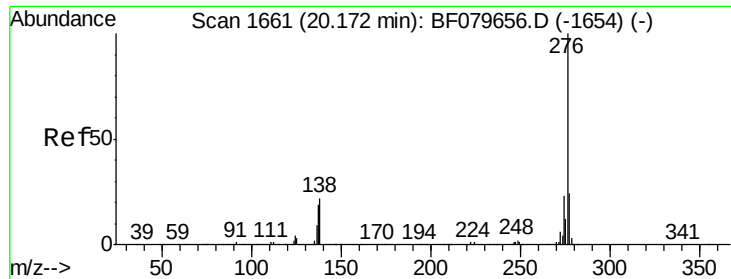
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#89
Benzo(a)pyrene
Concen: 9.25 ng
RT: 17.22 min Scan# 1403
Delta R.T. -0.17 min
Lab File: BF079695.D
Acq: 4 Jun 2015 8:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	13.0	9.4	14.0





#91
 Benzo(a,h,i)perylene
 Concen: 4.89 ng
 RT: 19.98 min Scan# 1644
 Delta R.T. -0.19 min
 Lab File: BF079695.D
 Acq: 4 Jun 2015 8:49

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.19(5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.1	28.7
138	22.5	17.4	26.0

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