

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\
 Data File : BF087766.D
 Acq On : 6 Jun 2016 22:21
 Operator : UM/SJ
 Sample : H3267-01DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SC-1491(0-4)DL

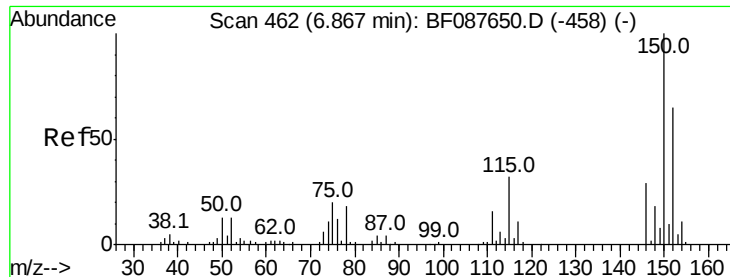
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Quant Time: Jun 07 02:16:29 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 04 11:07:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	102689	20.00	ng	-0.02
21) Naphthalene-d8	8.14	136	413123	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	156734	20.00	ng	-0.02
63) Phenanthrene-d10	11.37	188	281807	20.00	ng	-0.01
75) Chrysene-d12	14.00	240	212737	20.00	ng	-0.02
86) Perylene-d12	15.43	264	170891	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	169405	26.66	ng	-0.01
7) Phenol-d6	6.47	99	188510	23.66	ng	-0.02
23) Nitrobenzene-d5	7.40	82	98344	13.77	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	38068	24.20	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	212652	16.72	ng	-0.02
78) Terphenyl-d14	12.95	244	133300	15.29	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.75	152	88486	5.60	ng	99
49) Dimethylphthalate	9.61	163	29998	2.63	ng	# 98
70) Phenanthrene	11.39	178	69078	4.52	ng	98
71) Anthracene	11.44	178	89186	5.83	ng	98
74) Fluoranthene	12.58	202	450413	29.96	ng	97
77) Pyrene	12.81	202	458947	30.30	ng	99
80) Benzo(a)anthracene	13.99	228	287457	23.41	ng	# 92
82) Chrysene	14.02	228	197792m	16.19	ng	
85) Indeno(1,2,3-cd)pyrene	16.81	276	73931	7.32	ng	# 100
87) Benzo(b)fluoranthene	15.02	252	271003m	24.38	ng	
88) Benzo(k)fluoranthene	15.04	252	47147m	5.10	ng	
89) Benzo(a)pyrene	15.37	252	145847m	15.61	ng	
90) Dibenzo(a,h)anthracene	16.82	278	19801	2.49	ng	# 93
91) Benzo(g,h,i)perylene	17.22	276	67653	8.43	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 460

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

Tot Ion:152 Resp: 102689

Ion Ratio Lower Upper

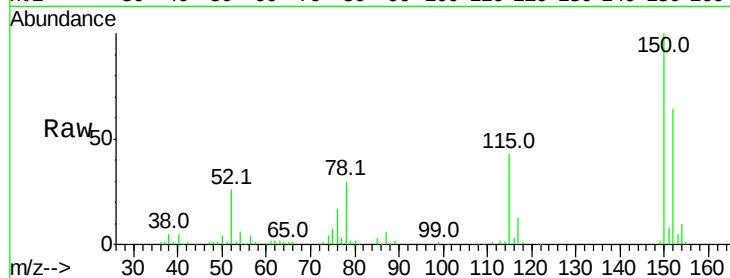
152 100

150 156.2 123.8 185.6

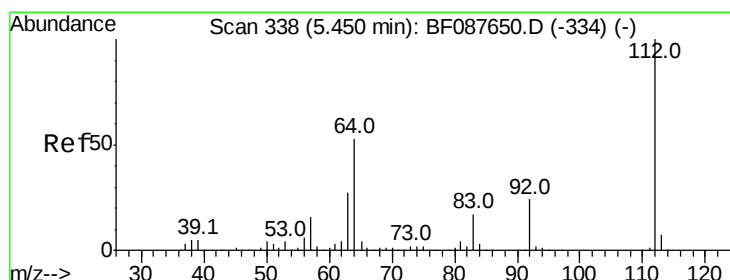
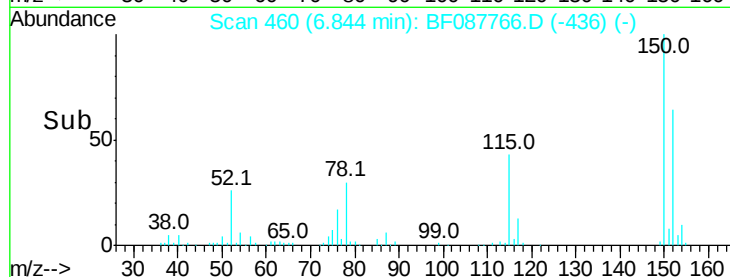
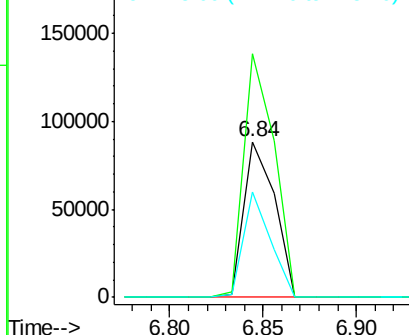
115 67.4 39.6 59.4#

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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



#5

2-Fluorophenol

Concen: 26.66 ng

RT: 5.44 min Scan# 337

Delta R.T. -0.01 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

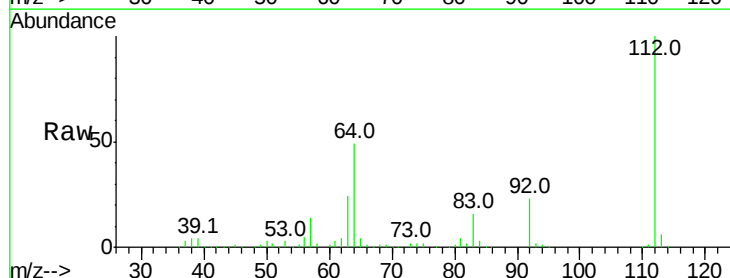
Tgt Ion:112 Resp: 169405

Ion Ratio Lower Upper

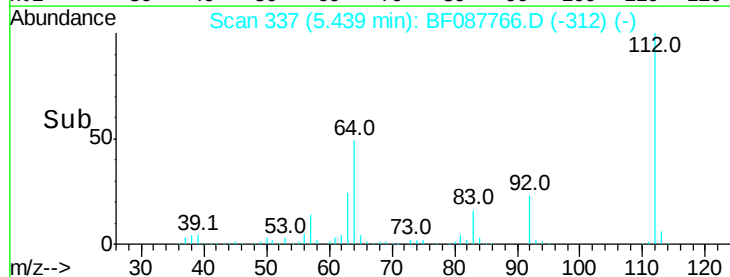
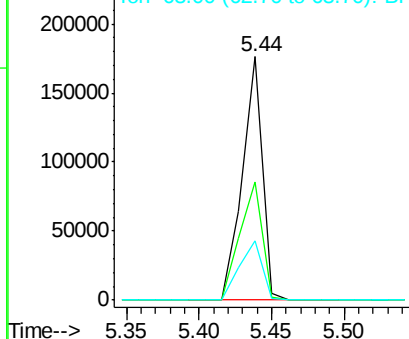
112 100

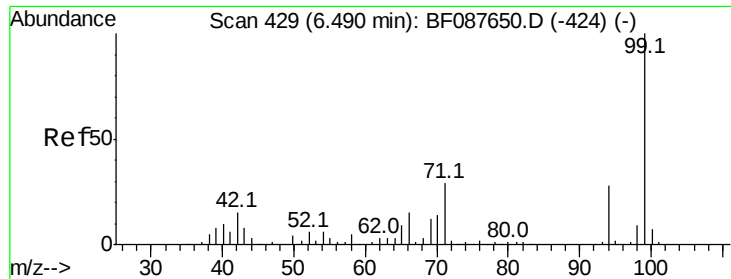
64 48.6 42.2 63.2

63 24.3 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 23.66 ng

RT: 6.47 min Scan# 427

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

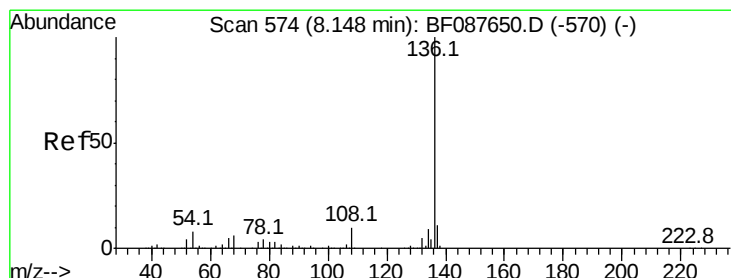
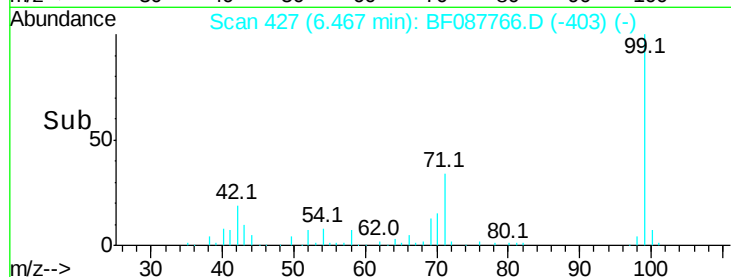
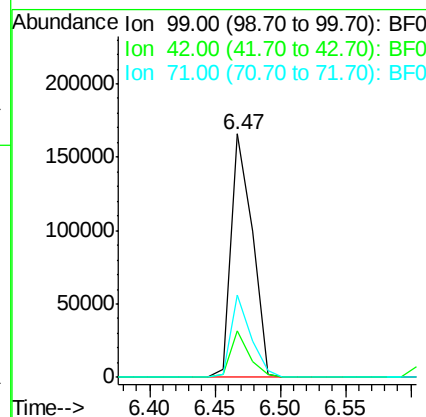
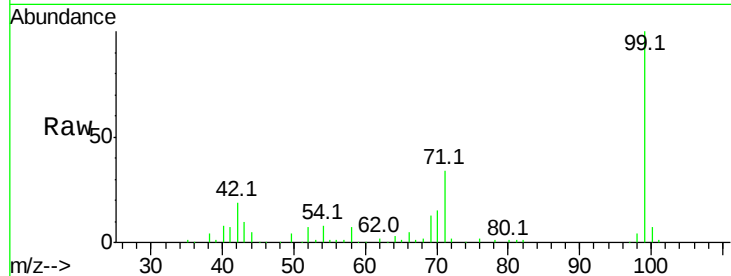
ClientSampleId :

SC-1491(0-4)DL

Tot Ion:	99	Resp:	188510
Ion Ratio	Lower	Upper	
99	100		
42	19.2	12.2	18.2#
71	33.7	23.4	35.0

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#21

Naphthalene-d8

Concen: 20.00 ng

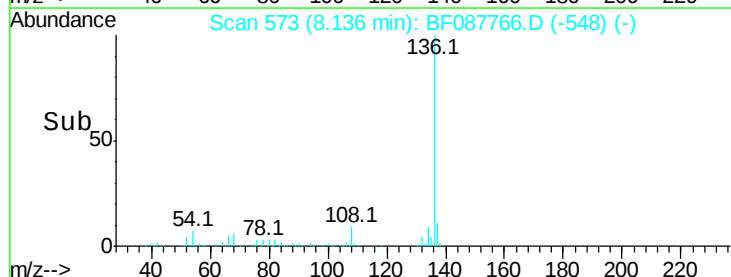
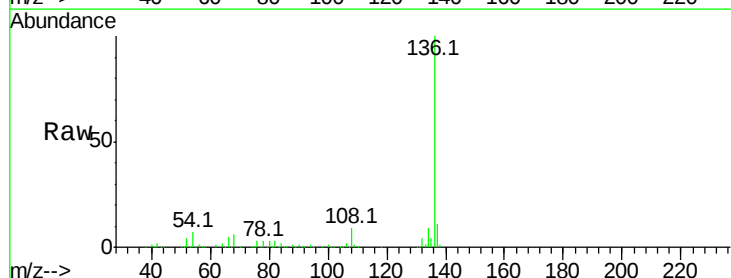
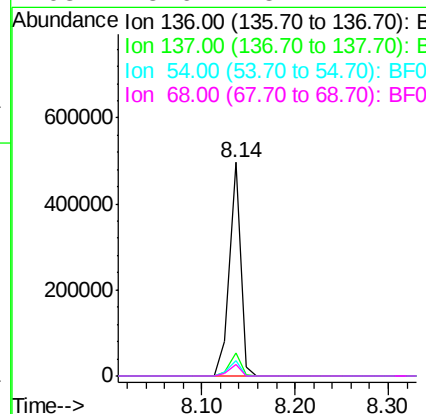
RT: 8.14 min Scan# 573

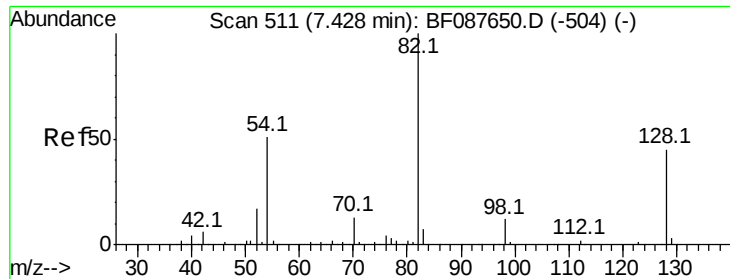
Delta R.T. -0.01 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion:	136	Resp:	413123
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.1	13.7
54	6.9	6.6	10.0
68	5.6	5.1	7.7





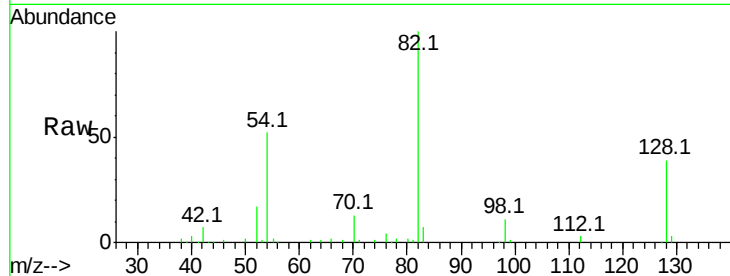
#23
 Nitrobenzene-d5
 Concen: 13.77 ng
 RT: 7.40 min Scan# 509
 Delta R.T. -0.02 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

Instrument :
 BNA_F
 ClientSampleId :
 SC-1491(0-4)DL

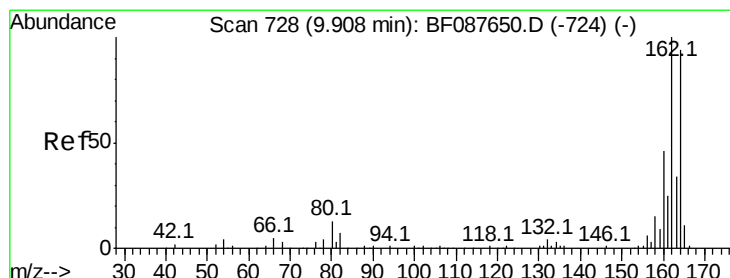
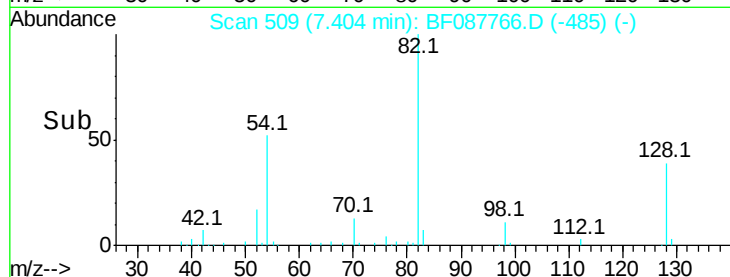
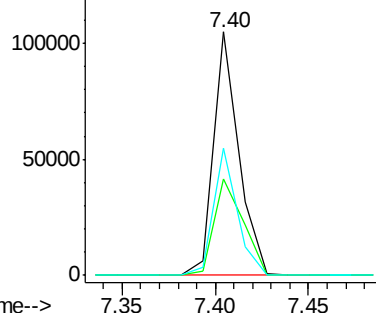
Tot Ion	Ratio	Lower	Upper
82	100		
128	39.4	35.9	53.9
54	52.4	40.9	61.3

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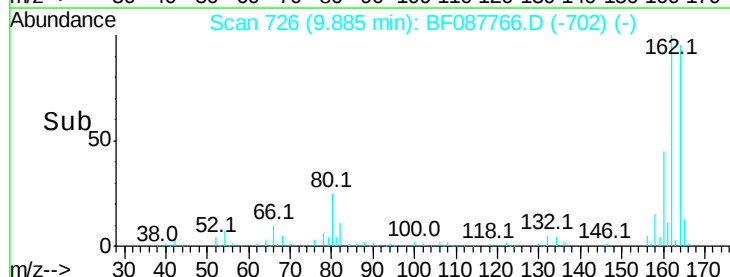
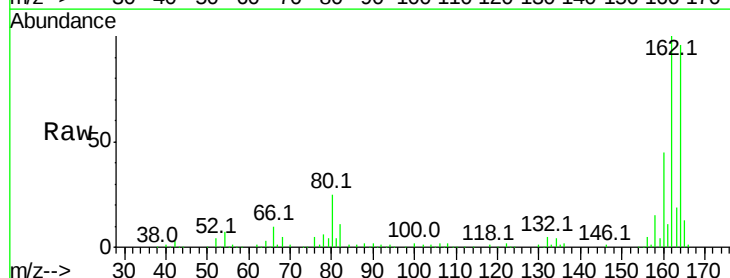
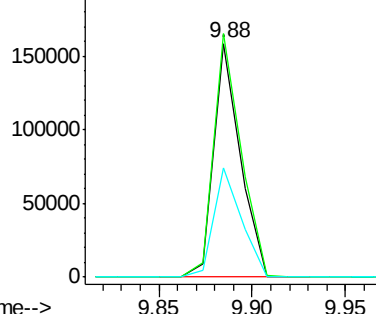
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

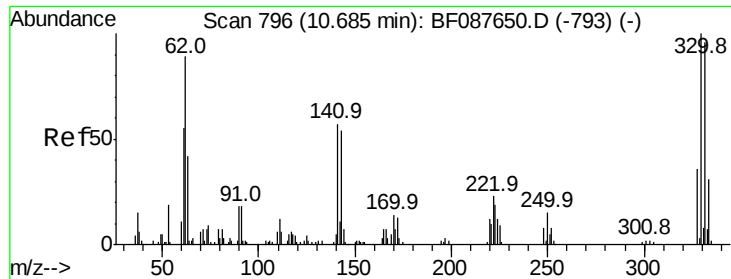


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.88 min Scan# 726
 Delta R.T. -0.02 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	85.4	128.2
160	46.6	39.5	59.3

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





#41

2,4,6-Tribromophenol

Concen: 24.20 ng

RT: 10.67 min Scan# 795

Delta R.T. -0.01 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

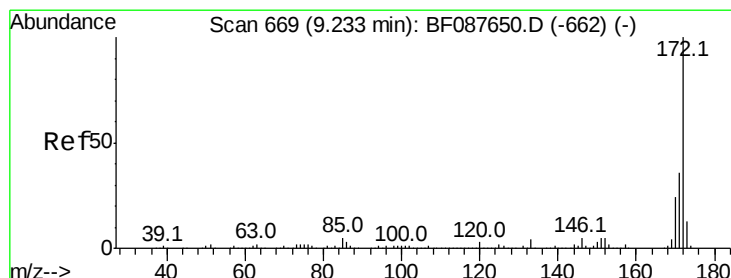
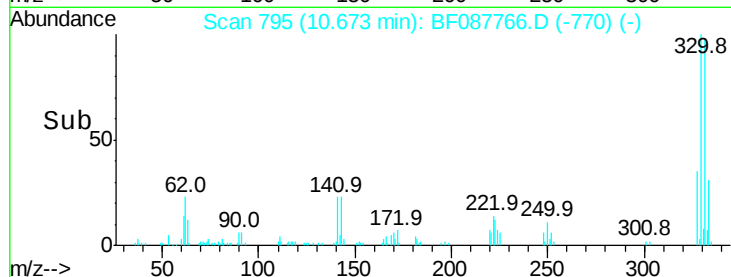
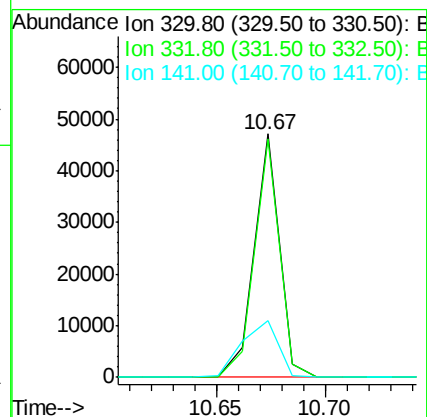
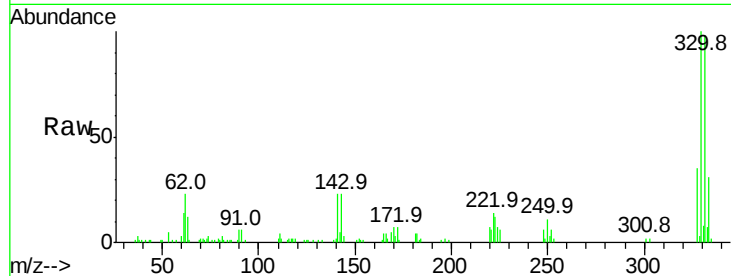
ClientSampleId :

SC-1491(0-4)DL

Tot Ion:	330	Resp:	38068
Ion Ratio	Lower	Upper	
330	100		
332	96.6	0.0	0.0#
141	33.7	0.0	0.0#

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#44

2-Fluorobiphenyl

Concen: 16.72 ng

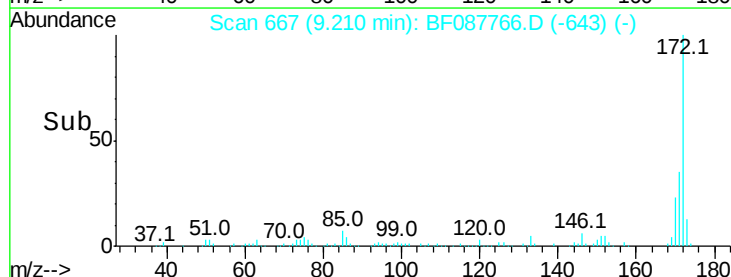
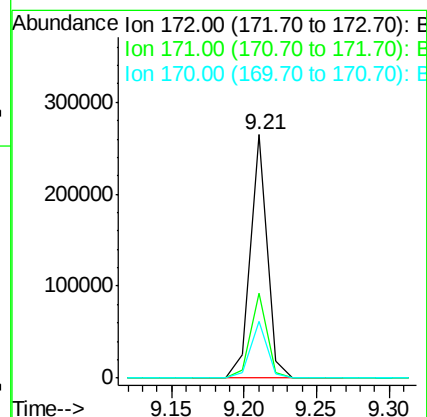
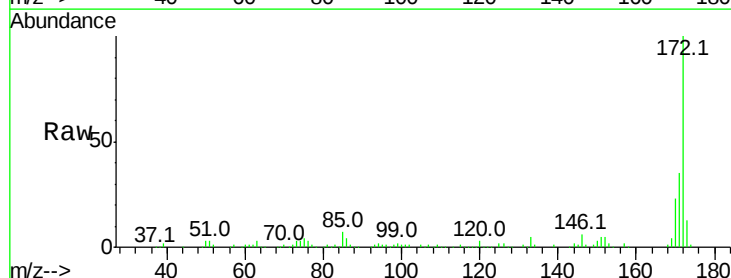
RT: 9.21 min Scan# 667

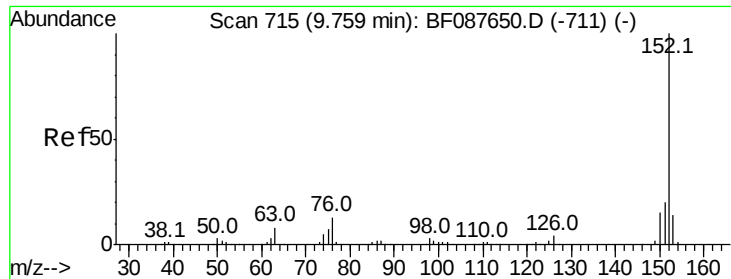
Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion:	172	Resp:	212652
Ion Ratio	Lower	Upper	
172	100		
171	34.9	28.6	43.0
170	23.3	19.2	28.8





#48

Acenaphthylene

Concen: 5.60 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.01 min

Lab File: BF087766.D

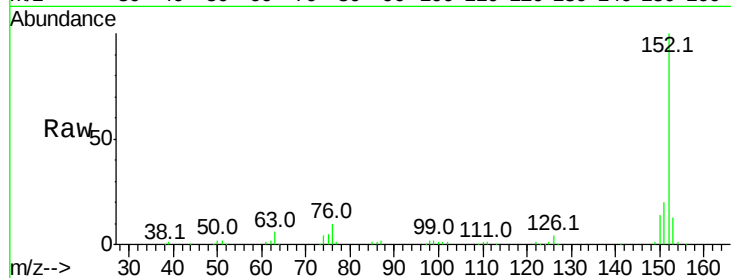
Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

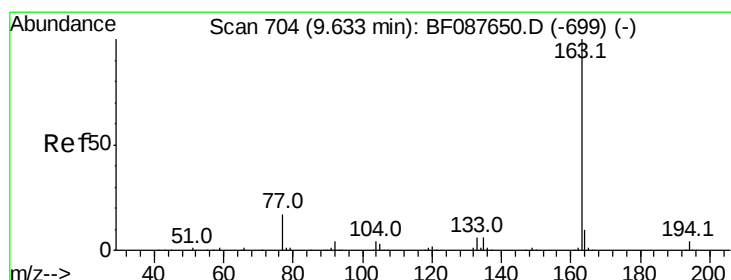
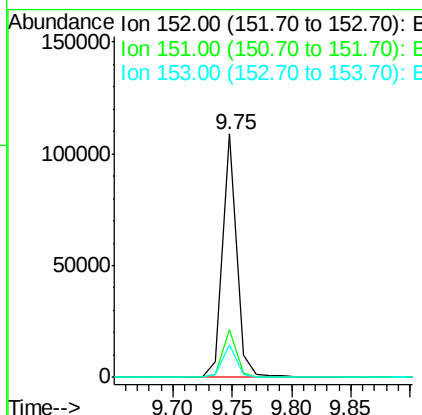
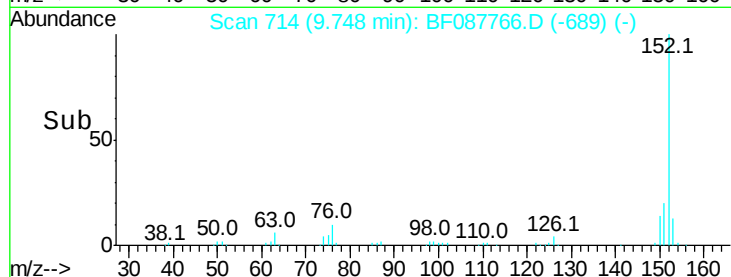
SC-1491(0-4)DL



Tot Ion:	152	Resp:	88486
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.2	24.4
153	13.1	11.0	16.6

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#49

Dimethylphthalate

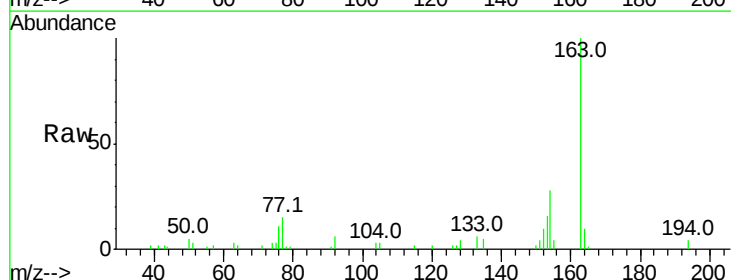
Concen: 2.63 ng

RT: 9.61 min Scan# 702

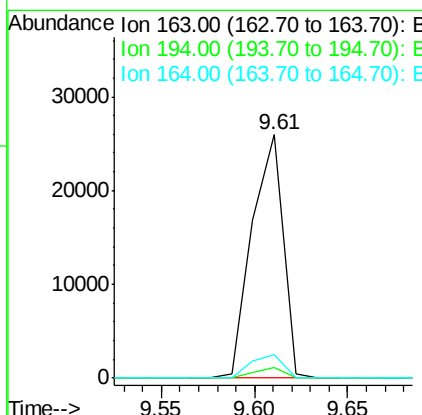
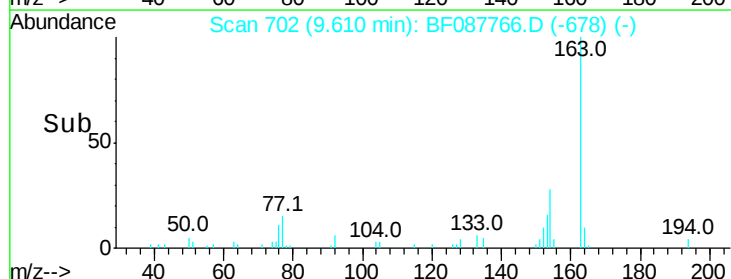
Delta R.T. -0.02 min

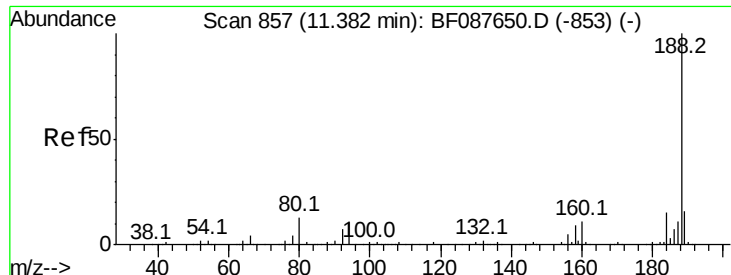
Lab File: BF087766.D

Acq: 6 Jun 2016 22:21



Tgt Ion:	163	Resp:	29998
Ion Ratio	Lower	Upper	
163	100		
194	4.4	2.8	4.2#
164	9.7	8.3	12.5





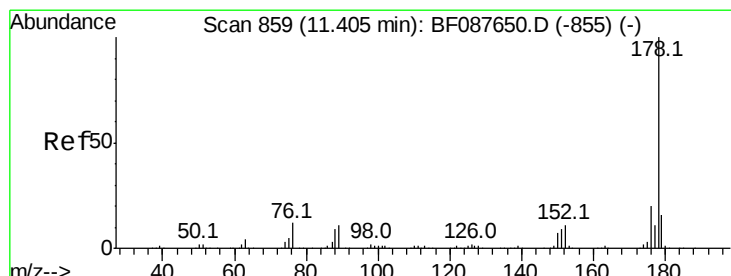
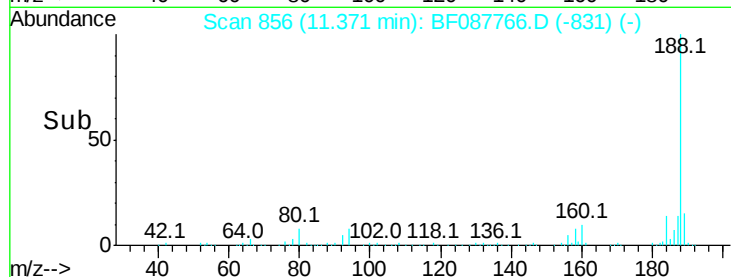
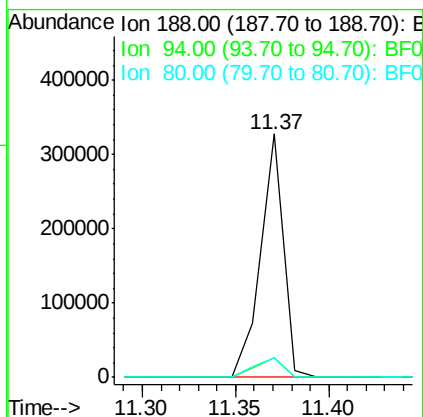
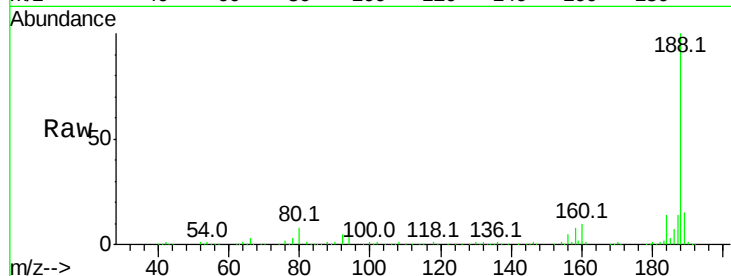
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 856
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.1	9.0	13.6#
80	8.1	10.0	15.0#

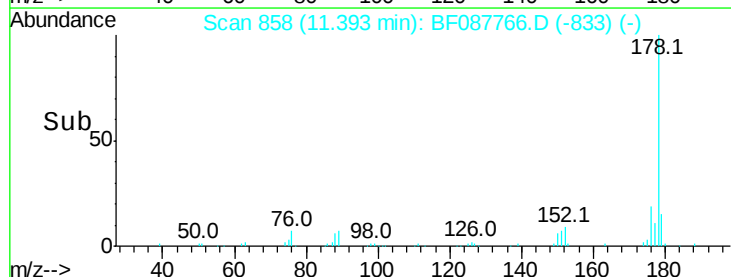
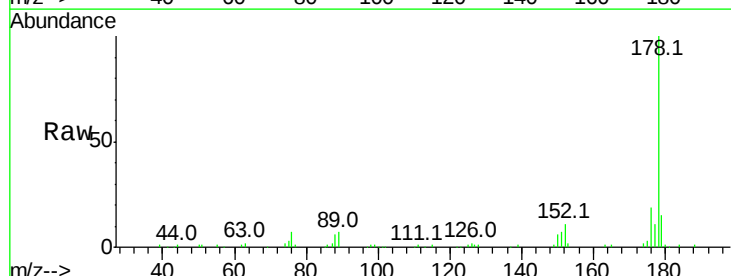
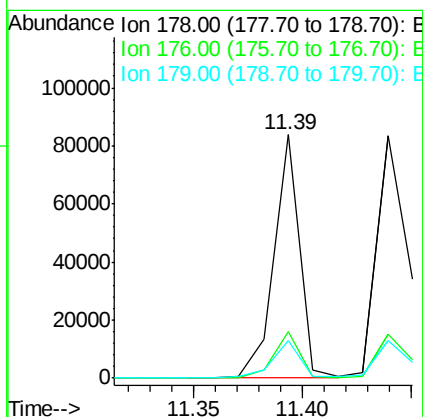
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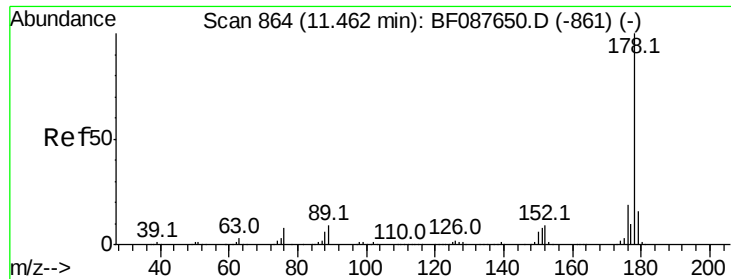
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#70
Phenanthrene
Concen: 4.52 ng
RT: 11.39 min Scan# 858
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.9	15.8	23.6
179	15.3	13.0	19.4





#71

Anthracene

Concen: 5.83 ng

RT: 11.44 min Scan# 862

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

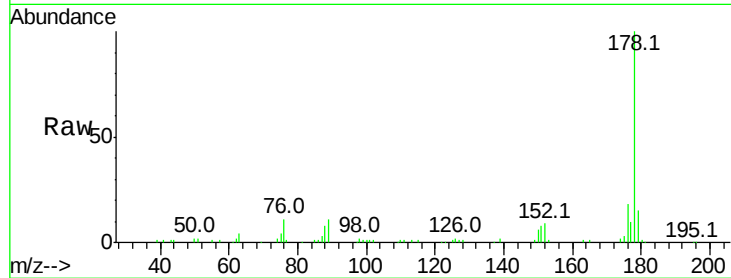
ClientSampleId :

SC-1491(0-4)DL

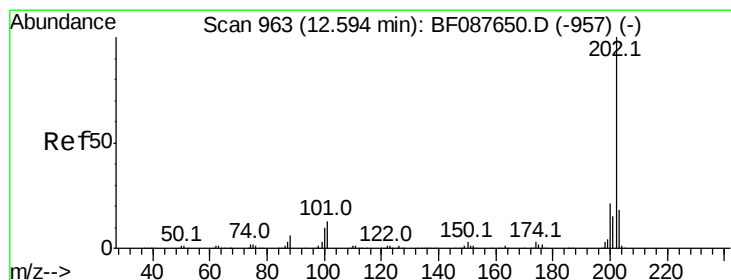
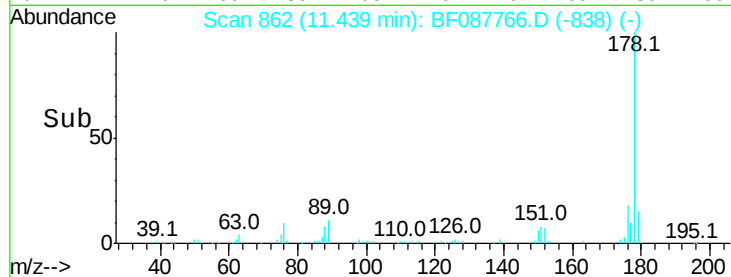
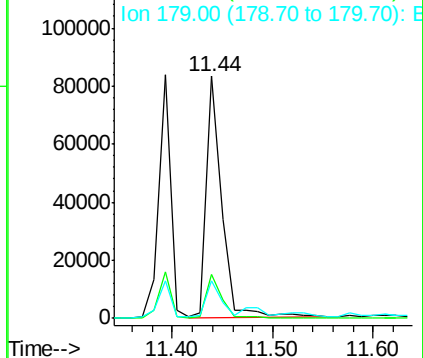
Tot Ion:	178	Resp:	89186
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.6	23.4
179	15.3	12.8	19.2

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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



#74

Fluoranthene

Concen: 29.96 ng

RT: 12.58 min Scan# 962

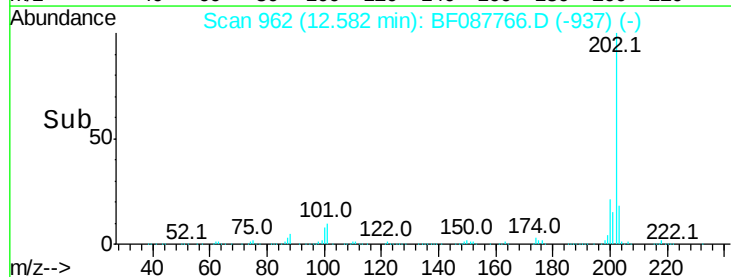
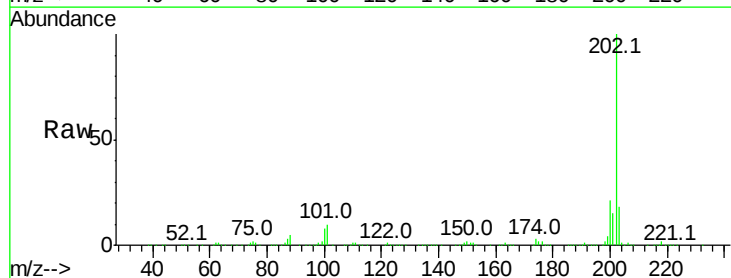
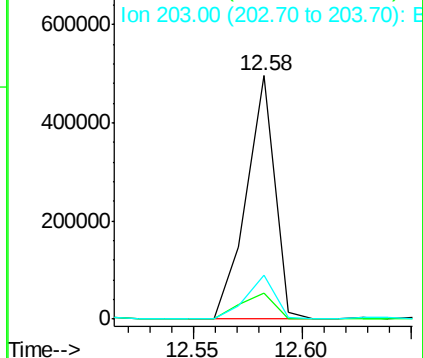
Delta R.T. -0.01 min

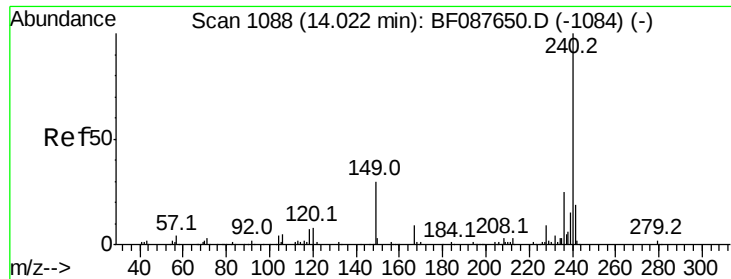
Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion:	202	Resp:	450413
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	33.1
203	17.8	0.0	38.1

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





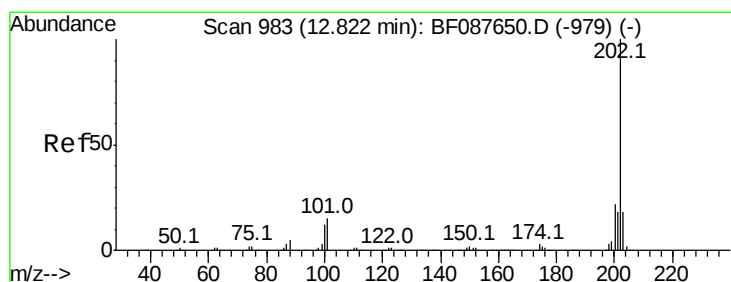
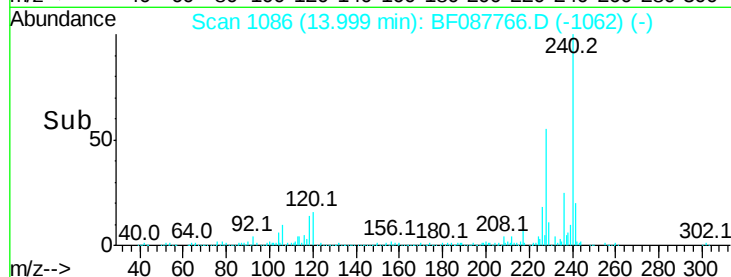
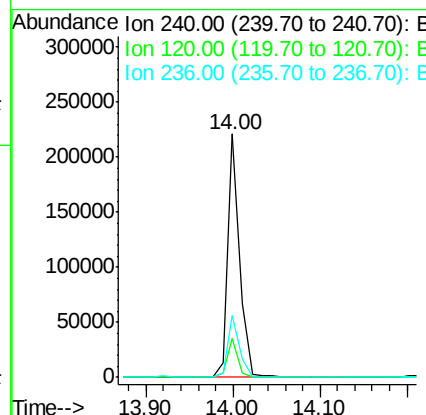
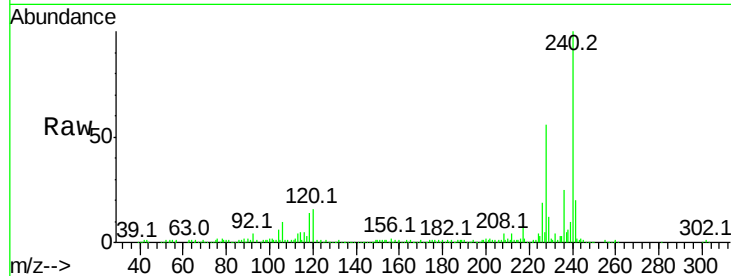
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.00 min Scan# 1086
Delta R.T. -0.02 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
SC-1491(0-4)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.9	6.8	10.2#
236	25.4	20.2	30.2

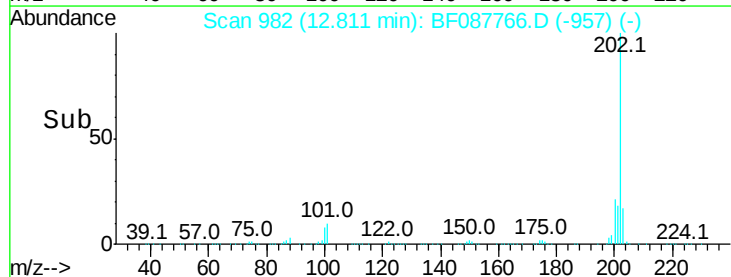
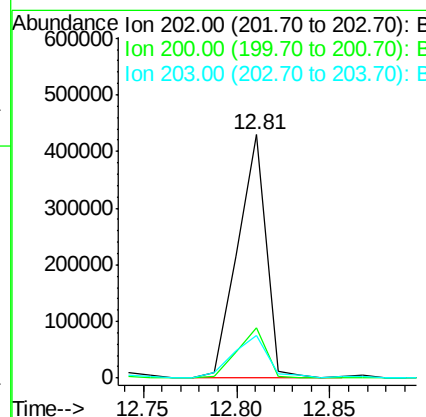
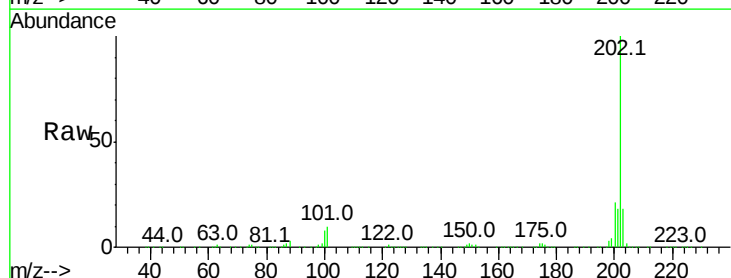
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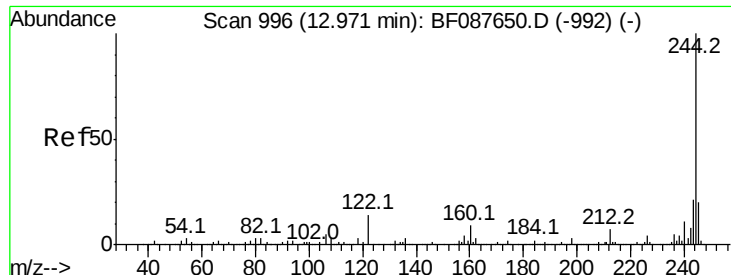
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#77
Pyrene
Concen: 30.30 ng
RT: 12.81 min Scan# 982
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.4	26.2
203	17.6	14.5	21.7





#78

Terphenyl-d14

Concen: 15.29 ng

RT: 12.95 min Scan# 994

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

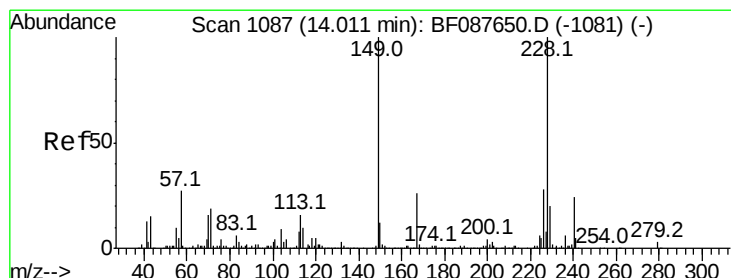
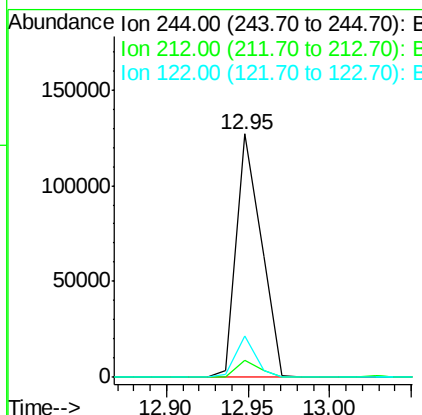
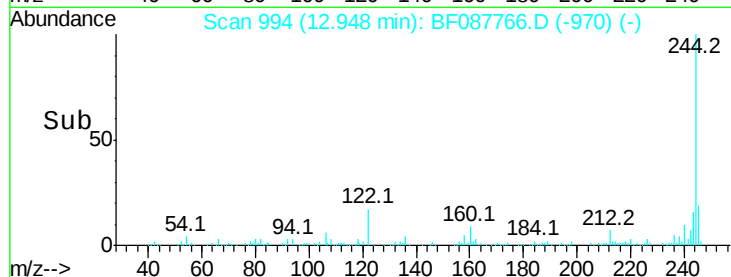
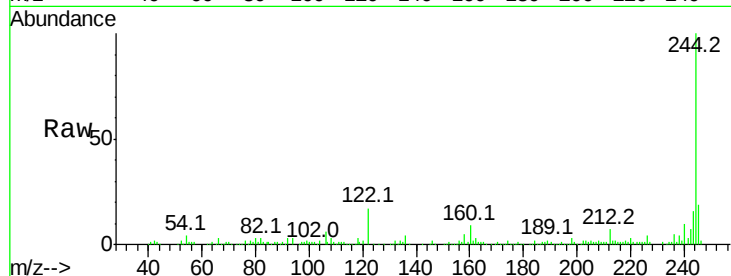
ClientSampleId :

SC-1491(0-4)DL

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	7.2	6.0	9.0
122	16.8	11.2	16.8#

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#80

Benzo(a)anthracene

Concen: 23.41 ng

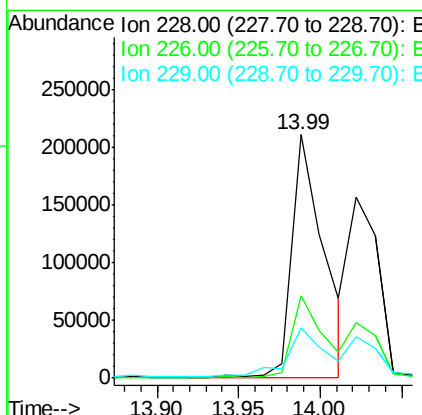
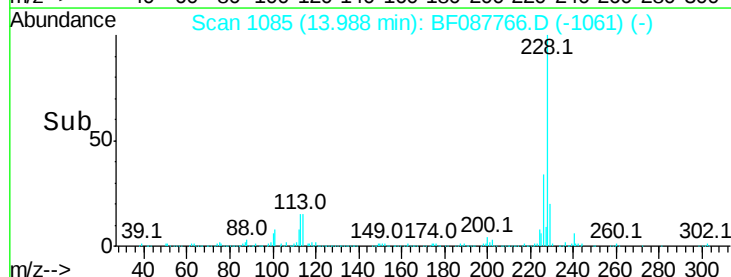
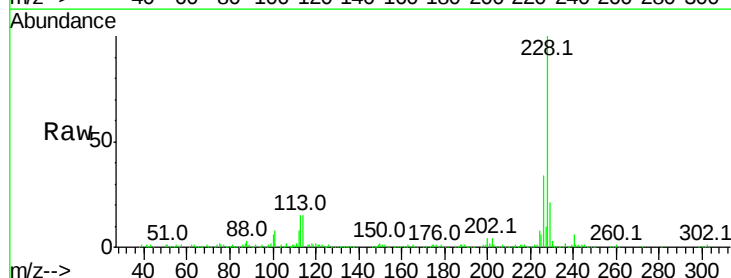
RT: 13.99 min Scan# 1085

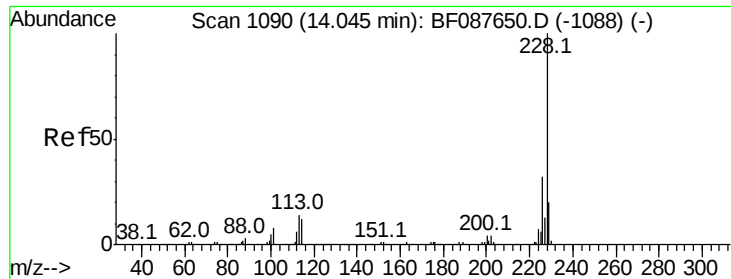
Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	34.0	22.3	33.5#
229	20.9	16.0	24.0





#82

Chrysene

Concen: 16.19 ng/mL

RT: 14.02 min Scan# 1088

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

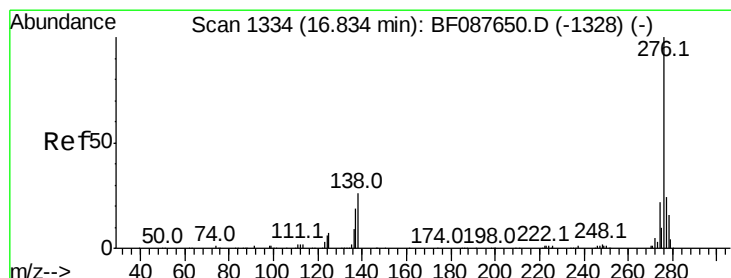
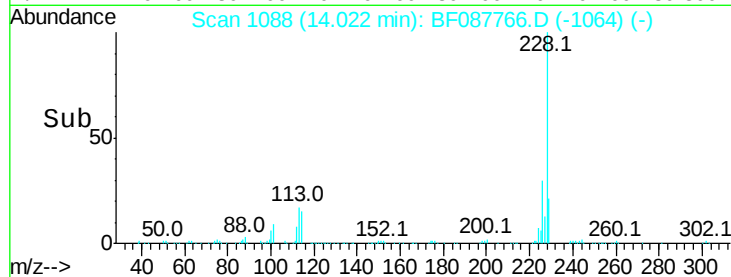
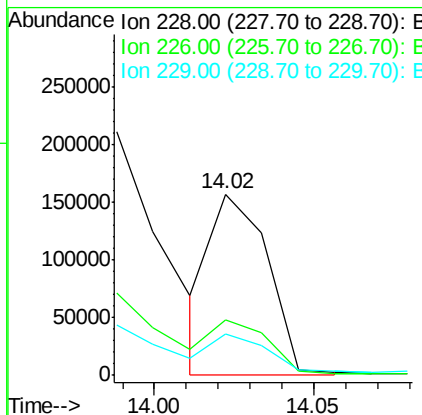
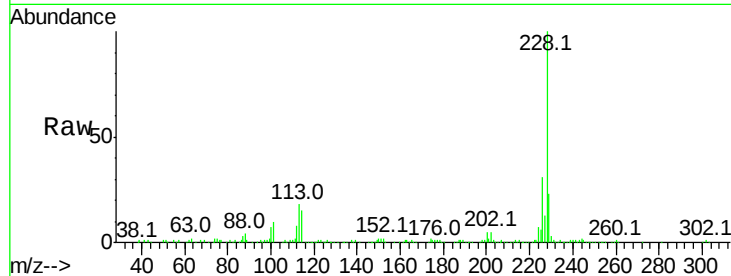
ClientSampleId :

SC-1491(0-4)DL

Tot Ion:	228	Resp:	197792
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.4	38.2
229	22.5	16.3	24.5

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#85

Indeno(1,2,3-cd)pyrene

Concen: 7.32 ng/mL

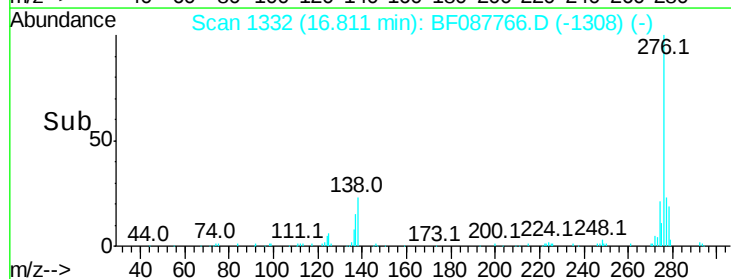
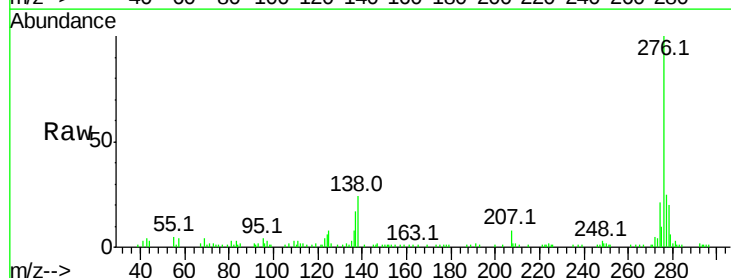
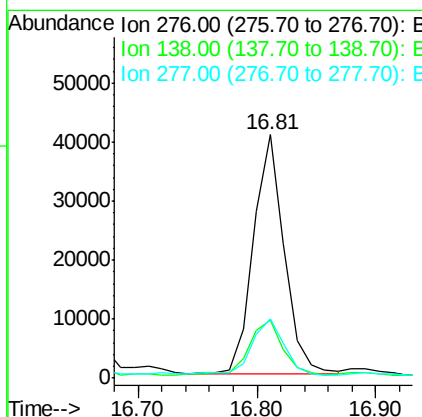
RT: 16.81 min Scan# 1332

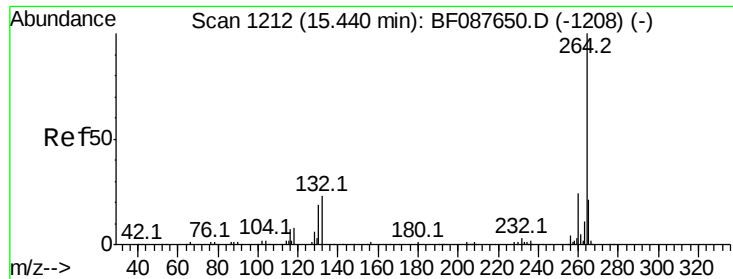
Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion:	276	Resp:	73931
Ion Ratio	Lower	Upper	
276	100		
138	24.8	0.0	0.0#
277	24.4	0.0	0.0#





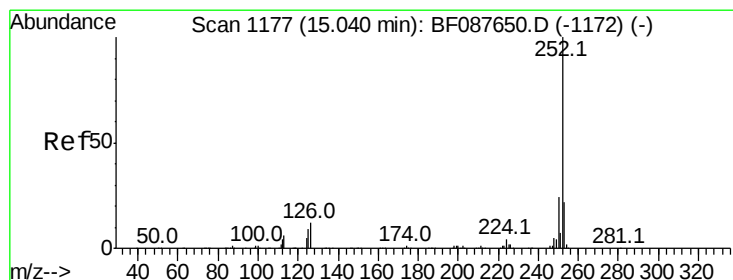
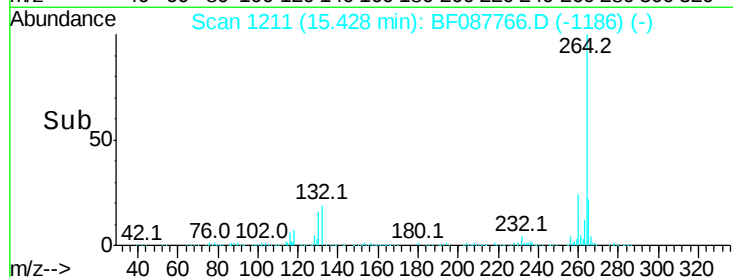
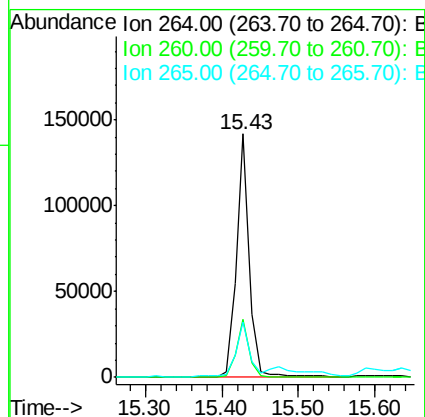
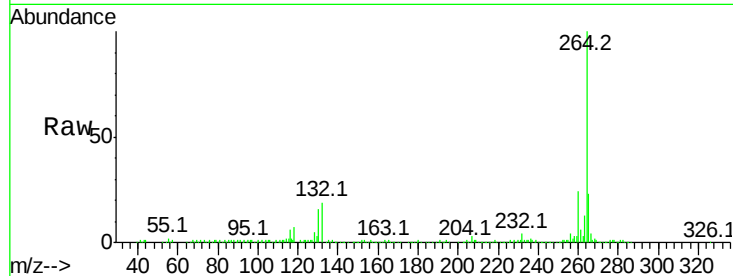
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1211
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
SC-1491(0-4)DL

Tot Ion	Ratio	Resp Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.6	16.9	25.3

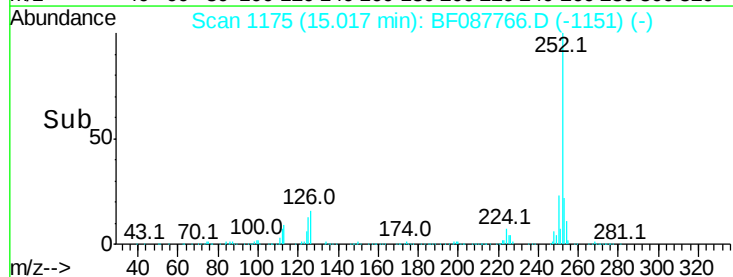
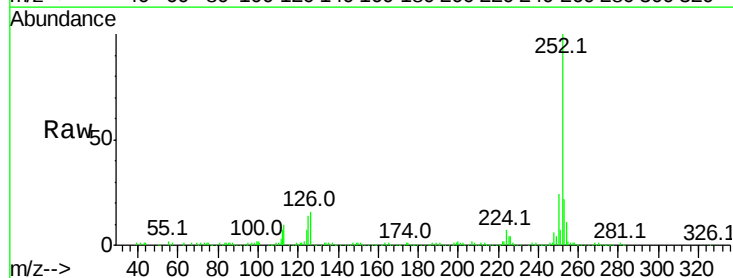
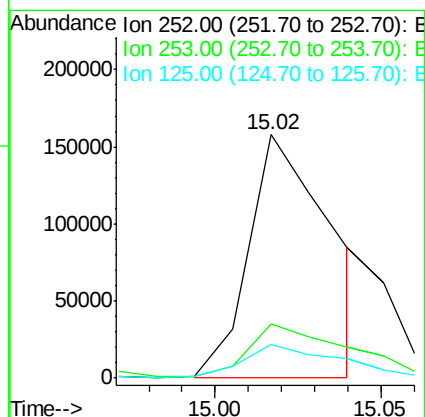
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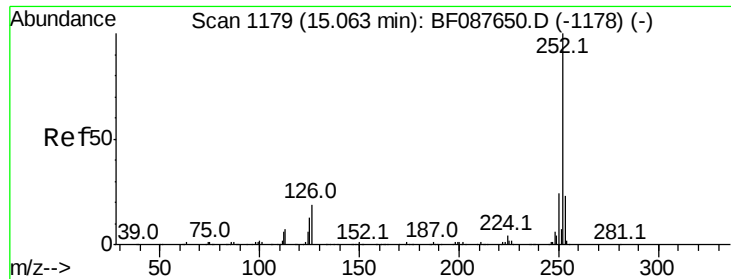
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#87
Benzo(b)fluoranthene
Concen: 24.38 ng m
RT: 15.02 min Scan# 1175
Delta R.T. -0.02 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.2	17.4	26.2
125	13.6	7.1	10.7#





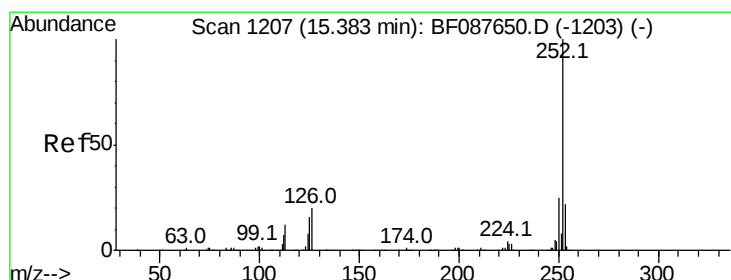
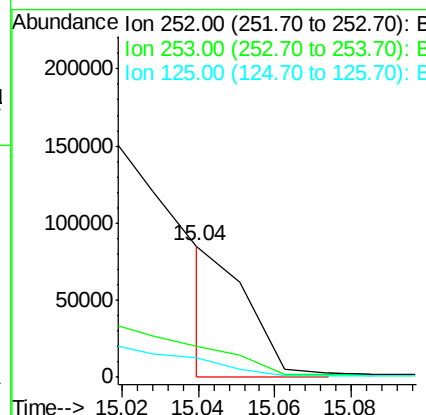
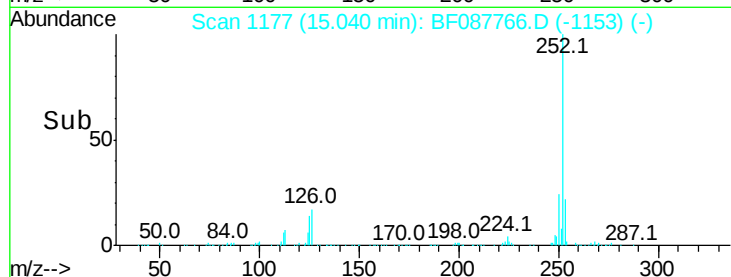
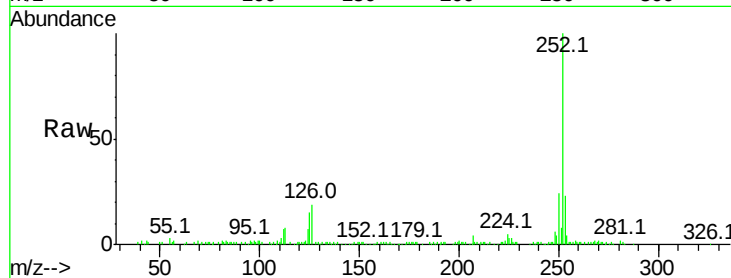
#88
Benzo(k)fluoranthene
Concen: 5.10 ng m
RT: 15.04 min Scan# 1177
Delta R.T. -0.02 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
SC-1491(0-4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.0	27.0
125	14.9	11.2	16.8

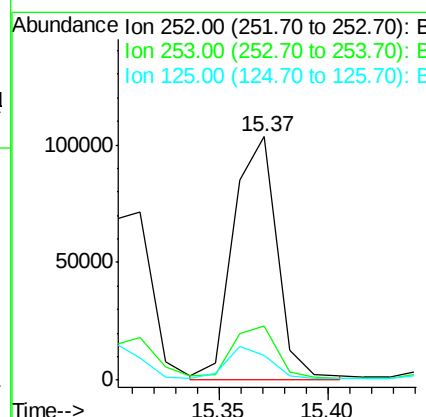
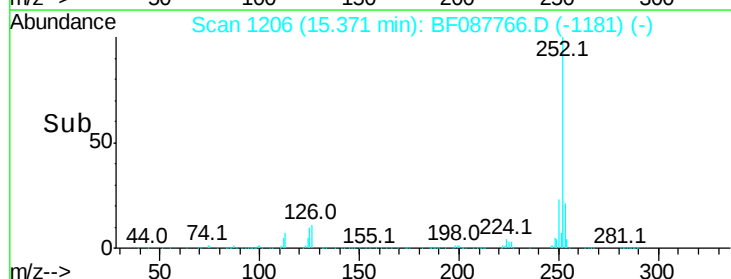
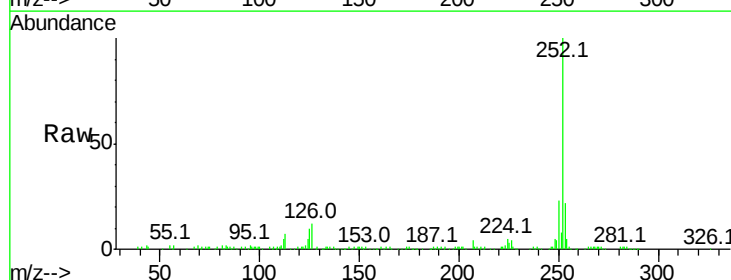
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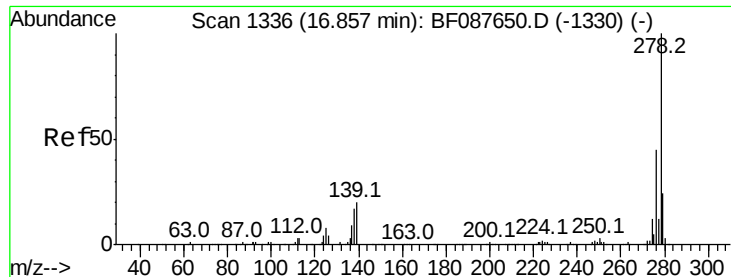
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#89
Benzo(a)pyrene
Concen: 15.61 ng m
RT: 15.37 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	10.2	12.5	18.7





#90

Dibenzo(a,h)anthracene

Concen: 2.49 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.03 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

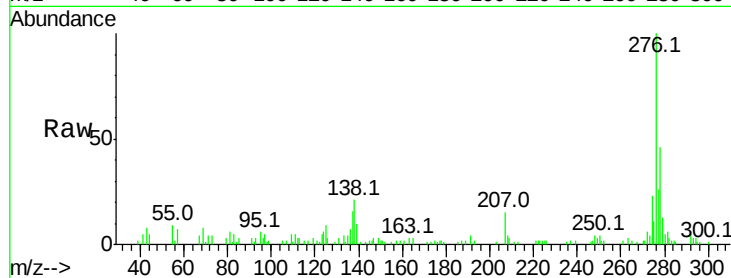
ClientSampleId :

SC-1491(0-4)DL

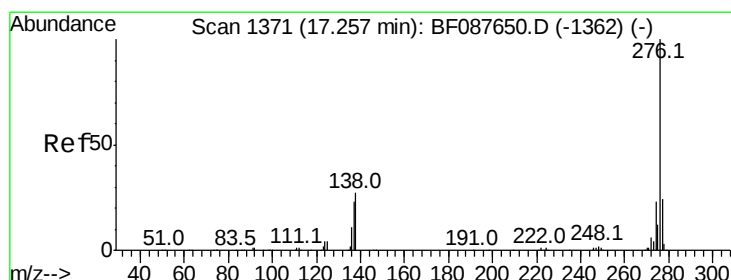
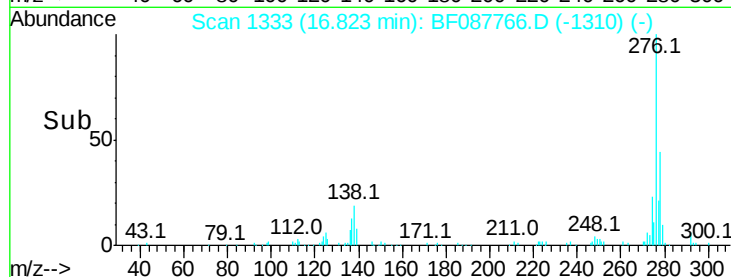
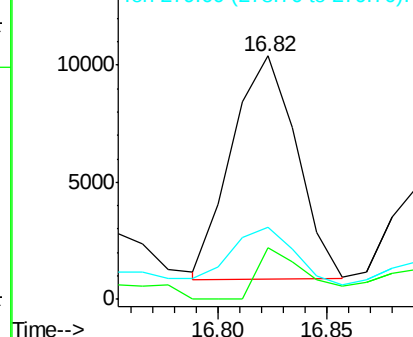
Tot Ion:	278	Resp:	19801
Ion Ratio	Lower	Upper	
278	100		
139	21.4	15.7	23.5
279	29.4	19.4	29.2

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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



#91

Benzo(g,h,i)perylene

Concen: 8.43 ng

RT: 17.22 min Scan# 1368

Delta R.T. -0.03 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion:	276	Resp:	67653
Ion Ratio	Lower	Upper	
276	100		
277	24.4	18.9	28.3
138	25.2	21.4	32.2

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

