

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
 Data File : BF096247.D
 Acq On : 28 Jun 2017 14:11
 Operator : SJ/MA
 Sample : I3920-01DL 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OB-1DL

Manual Integrations
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Quant Time: Jun 28 17:09:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	152252	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	621880	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	244858	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	389275	20.00	ng	0.01
75) Chrysene-d12	13.93	240	346970	20.00	ng	0.01
86) Perylene-d12	15.36	264	329154	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	117159	11.09	ng	0.00
7) Phenol-d6	6.40	99	143388	11.21	ng	0.00
23) Nitrobenzene-d5	7.33	82	69878	7.78	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	22189	11.51	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	121522	9.09	ng	-0.01
78) Terphenyl-d14	12.87	244	86968	6.25	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.09	128	266288	8.88	ng	99
37) 2-Methylnaphthalene	8.77	142	74381	3.82	ng	96
51) Acenaphthene	9.85	154	89049	5.85	ng	98
54) Dibenzofuran	10.02	168	146928	7.39	ng	99
70) Phenanthrene	11.32	178	1161940	62.50	ng	99
71) Anthracene	11.37	178	324140	14.90	ng	98
72) Carbazole	11.52	167	142339	5.93	ng	95
74) Fluoranthene	12.51	202	1043072	48.24	ng	97
77) Pyrene	12.73	202	913124	32.02	ng	99
80) Benzo(a)anthracene	13.92	228	425855	20.13	ng	100
82) Chrysene	13.95	228	361848	16.54	ng	97
85) Indeno(1,2,3-cd)pyrene	16.74	276	172283	9.49	ng	93
87) Benzo(b)fluoranthene	14.94	252	435913m	20.16	ng	
88) Benzo(k)fluoranthene	14.97	252	135754m	6.88	ng	
89) Benzo(a)pyrene	15.29	252	306901	16.07	ng	# 94
90) Dibenzo(a,h)anthracene	16.75	278	47685	3.19	ng	# 79
91) Benzo(a,h,i)perylene	17.17	276	158489	10.20	ng	97

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

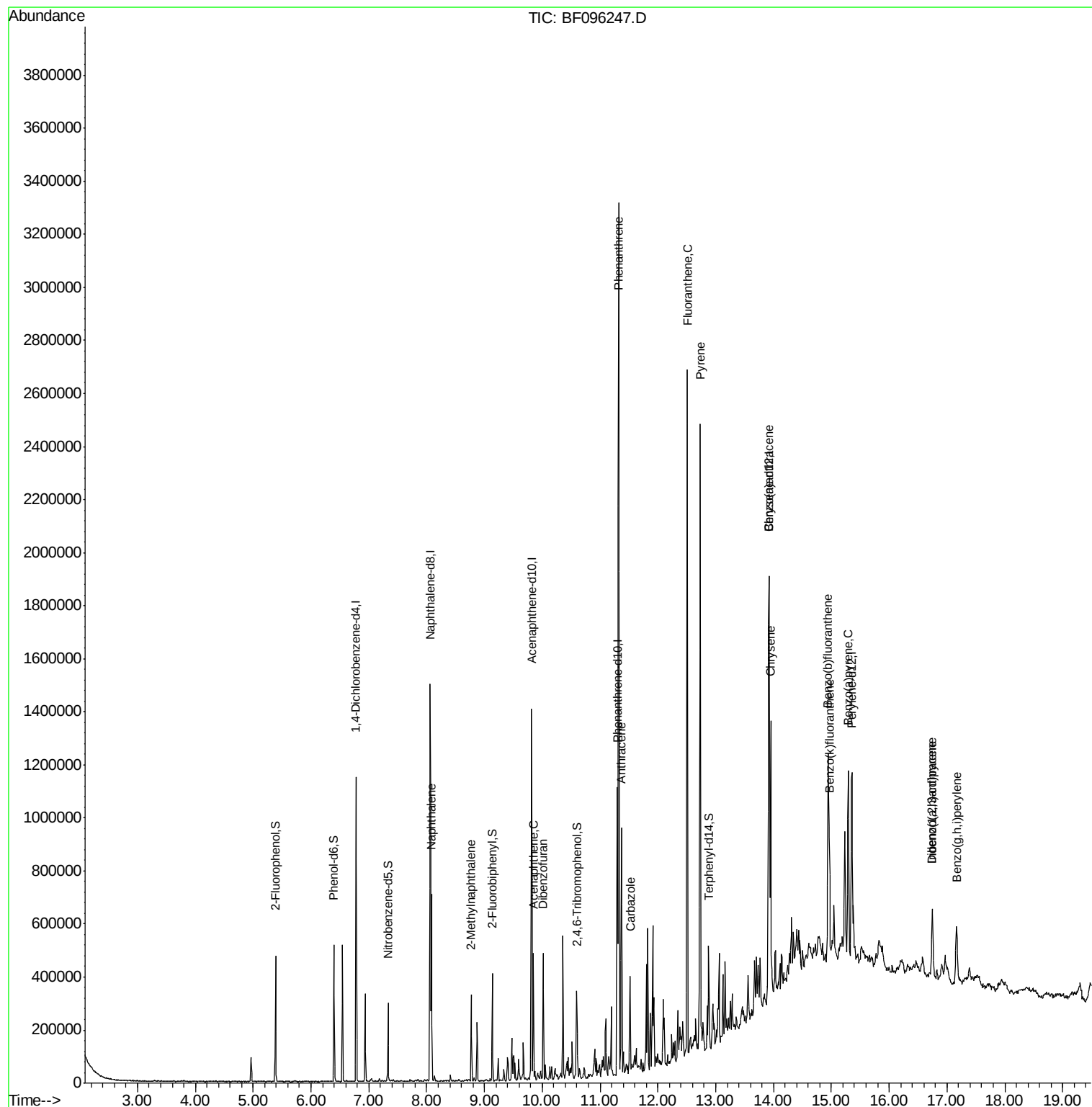
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
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#1

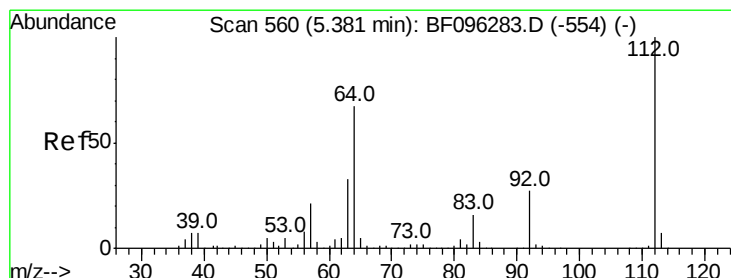
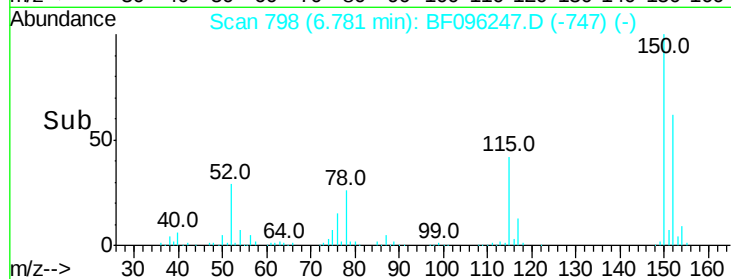
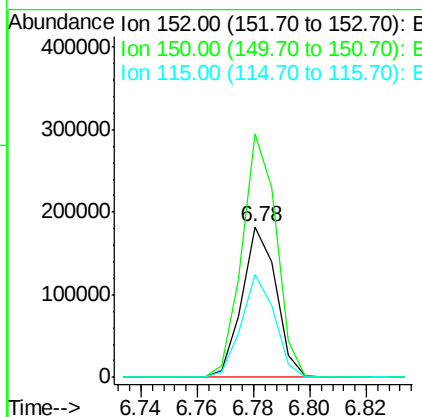
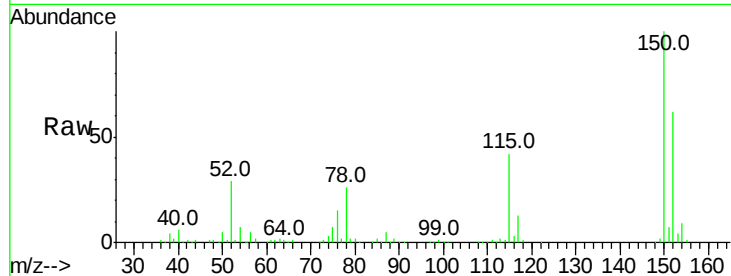
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.00 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Instrument :
BNA_F
ClientSampleId :
OB-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.1	126.2	189.2
115	68.1	52.2	78.2

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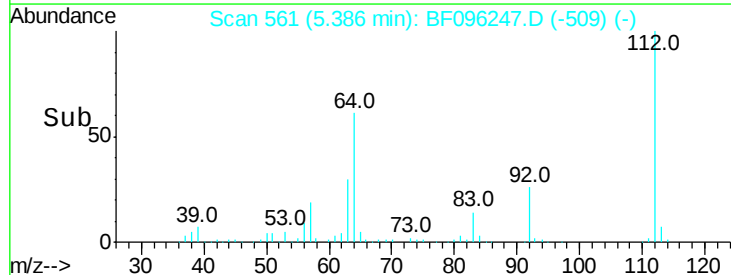
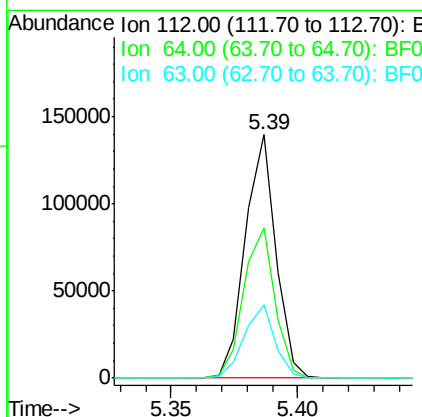
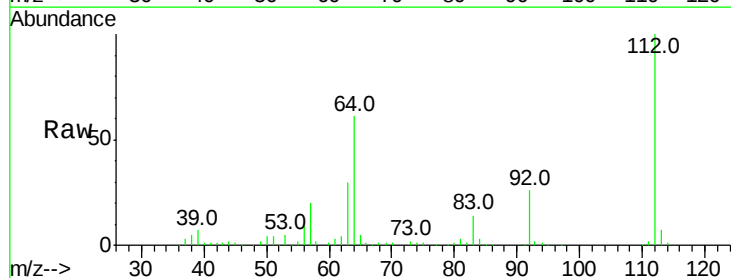
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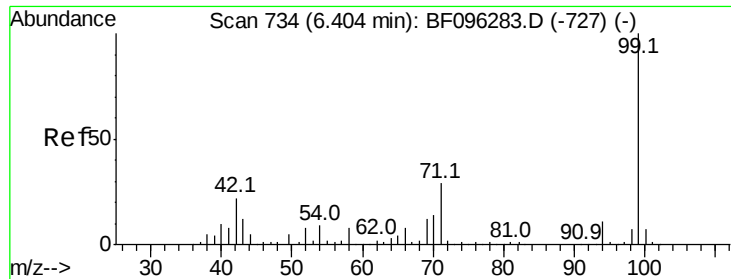


#5

2-Fluorophenol
Concen: 11.09 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.4	46.0	69.0
63	30.2	23.4	35.0





#7

Phenol-d6

Concen: 11.21 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

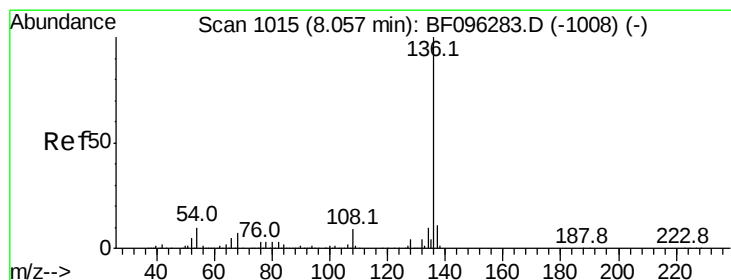
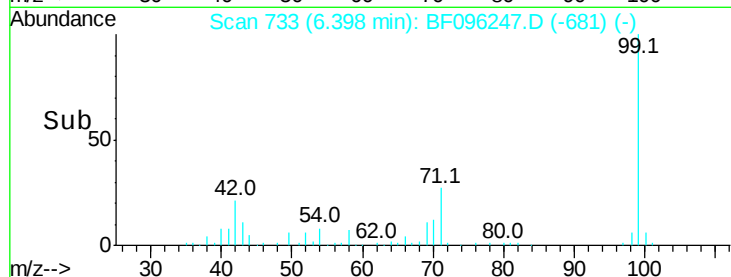
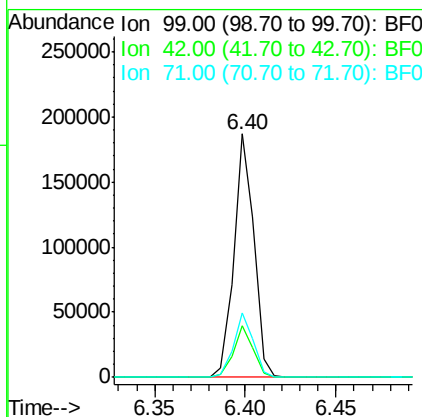
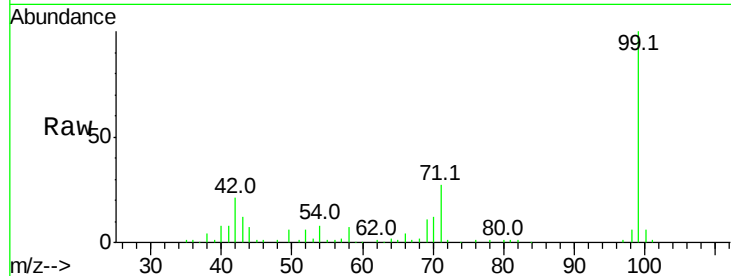
ClientSampled :

OB-1DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		143388		
42	21.1	13.5	20.3#		
71	26.5	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

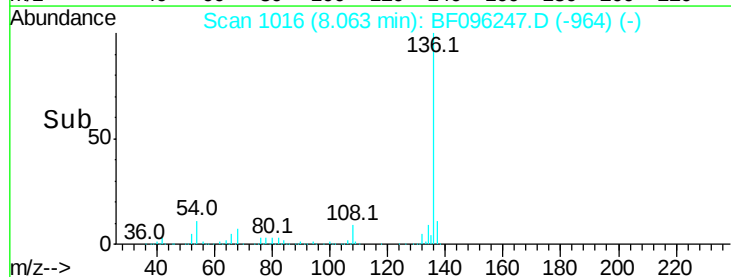
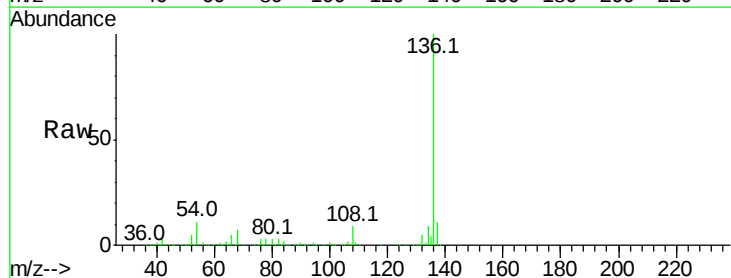
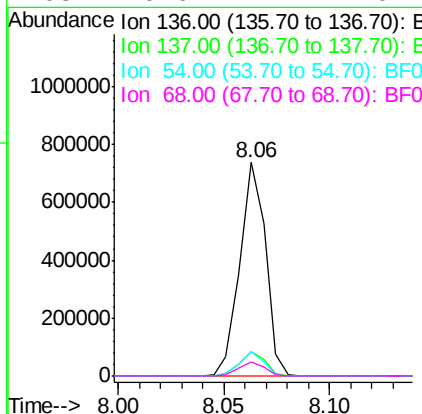
RT: 8.06 min Scan# 1016

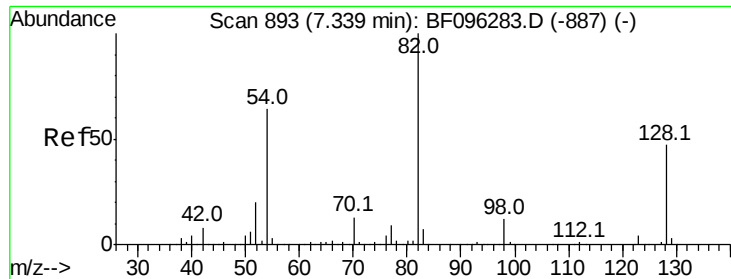
Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		621880		
137	11.3	8.5	12.7		
54	11.4	4.9	7.3#		
68	6.6	4.1	6.1#		





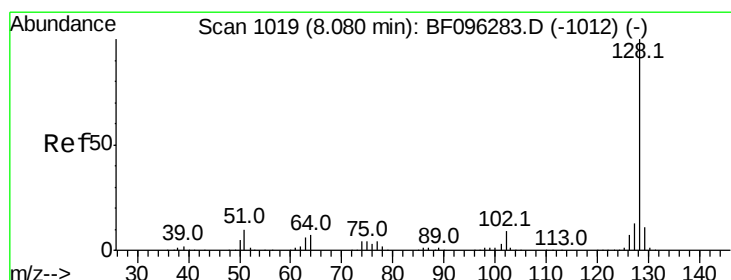
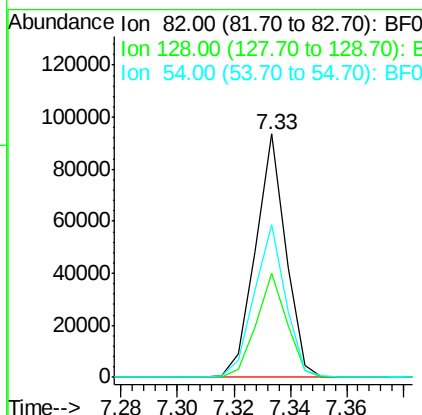
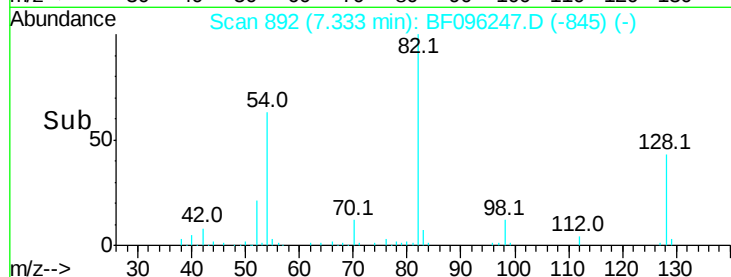
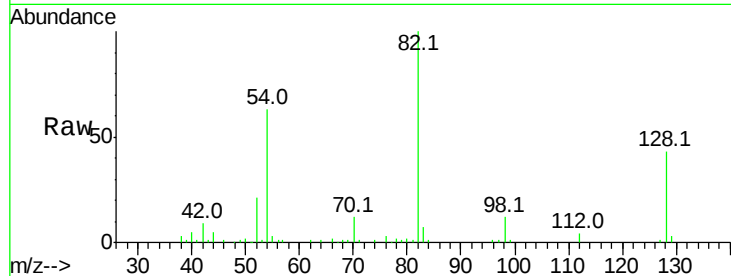
#23
Nitrobenzene-d5
Concen: 7.78 ng
RT: 7.33 min Scan# 892
Delta R.T. -0.02 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Instrument :
BNA_F
ClientSampled :
OB-1DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.0	51.0
54	62.7	42.2	63.2

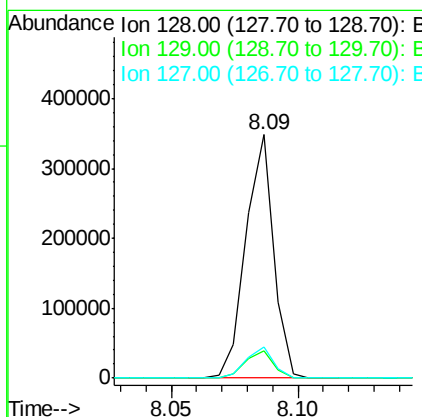
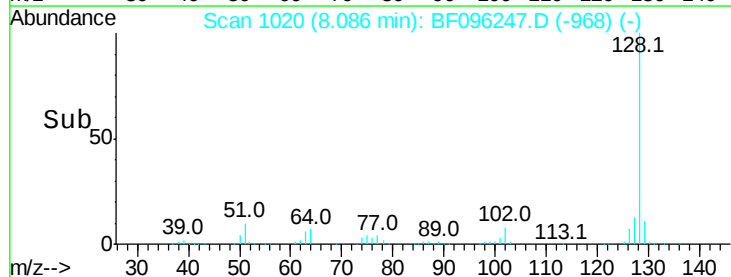
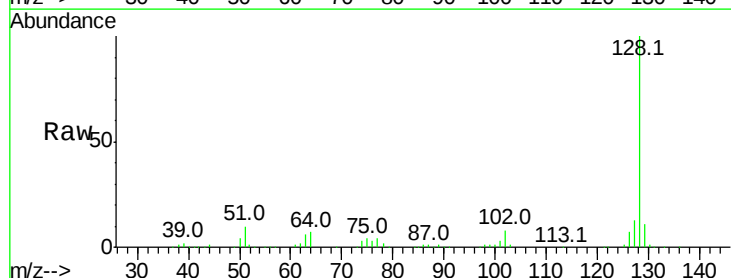
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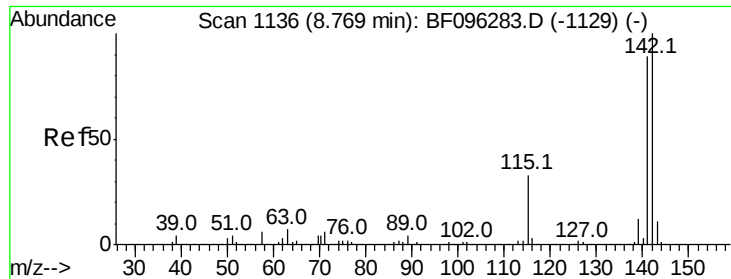
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#31
Naphthalene
Concen: 8.88 ng
RT: 8.09 min Scan# 1020
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.0	10.8	16.2





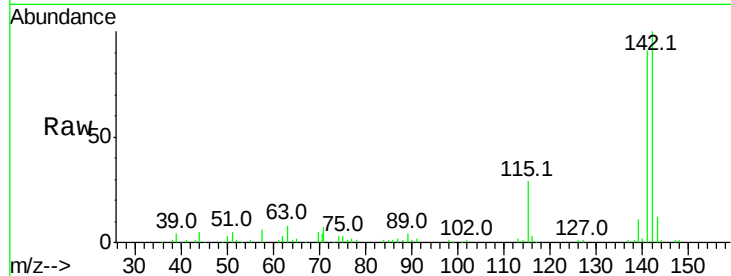
#37
2-Methylnaphthalene
Concen: 3.82 ng
RT: 8.77 min Scan# 1137
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Instrument :
BNA_F
ClientSampled :
OB-1DL

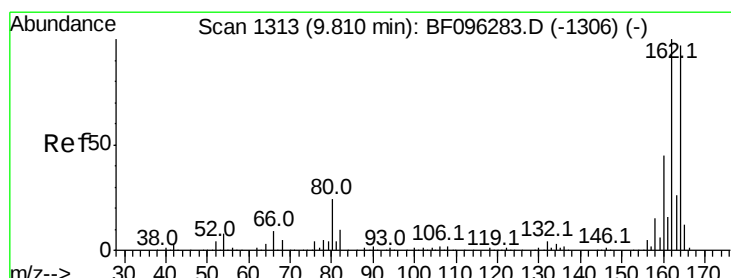
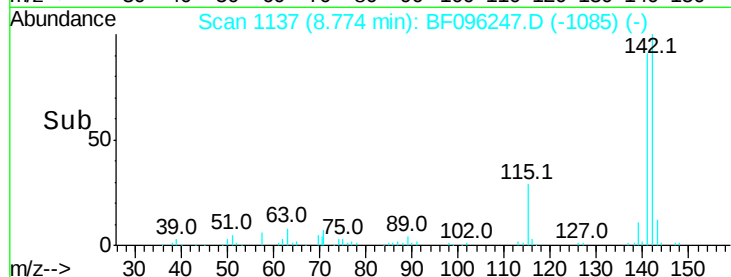
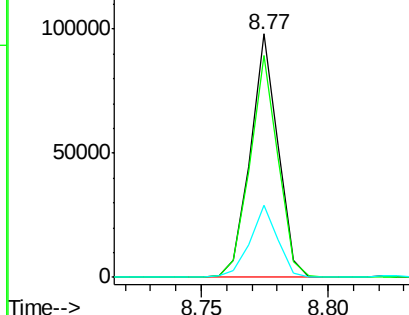
Tot Ion	Ratio	Lower	Upper
142	100		
141	91.3	71.3	106.9
115	29.4	27.1	40.7

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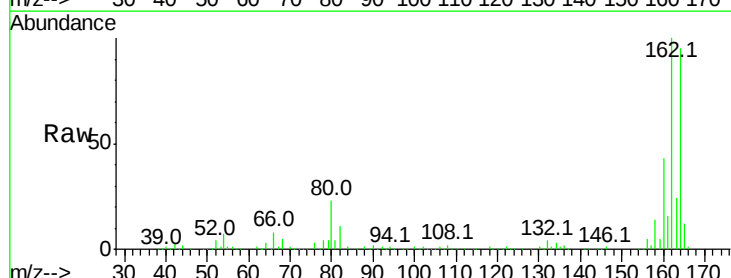


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

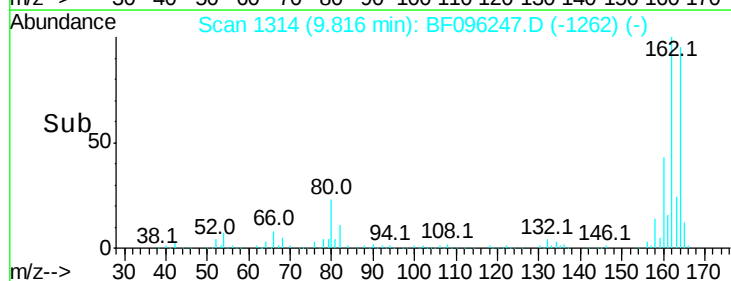
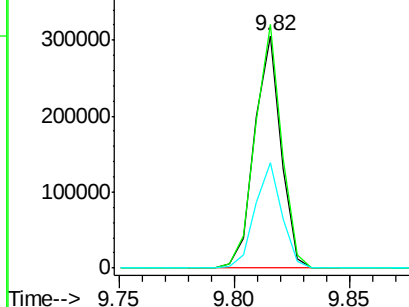


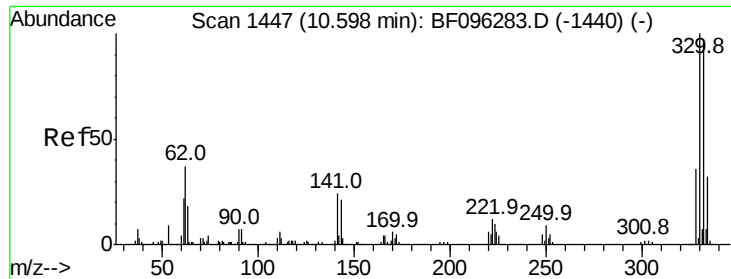
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.82 min Scan# 1314
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.8	82.6	123.8
160	45.3	36.2	54.2



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





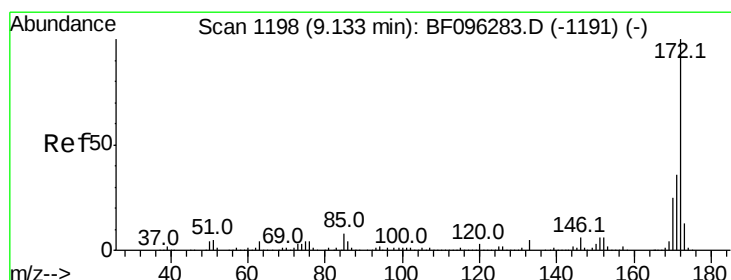
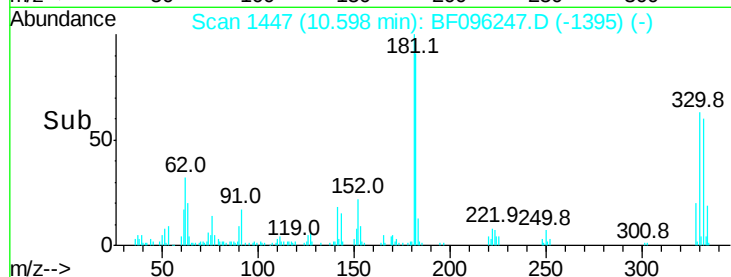
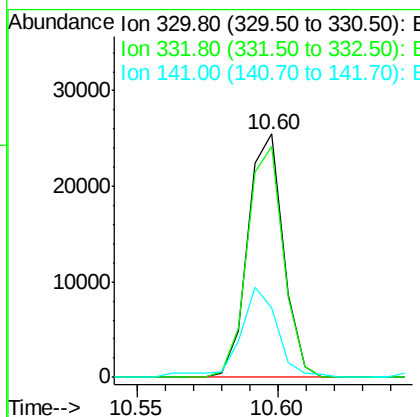
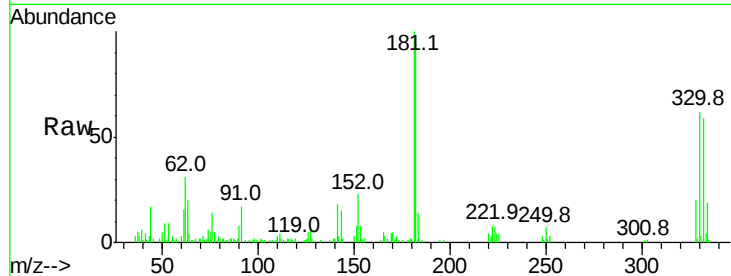
#41
 2,4,6-Tribromophenol
 Concen: 11.51 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. 0.01 min
 Lab File: BF096247.D
 Acq: 28 Jun 2017 14:11

Instrument :
 BNA_F
 ClientSampleId :
 OB-1DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.6	115.0
141	39.1	31.4	47.2

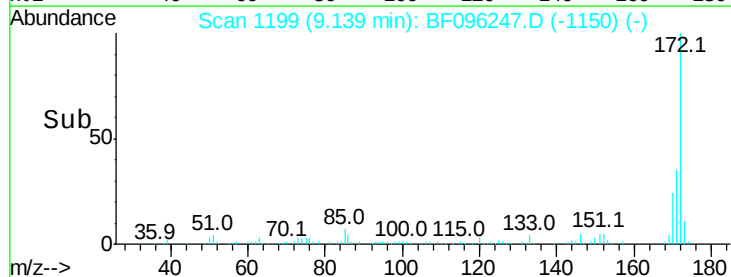
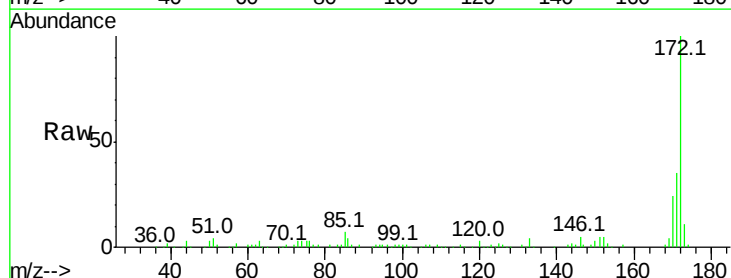
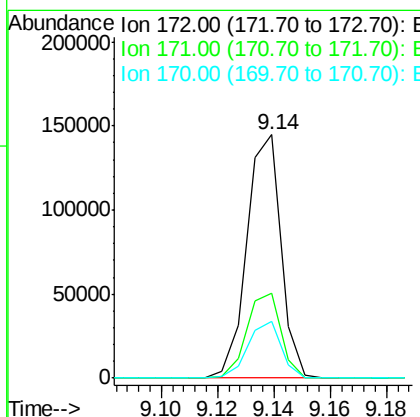
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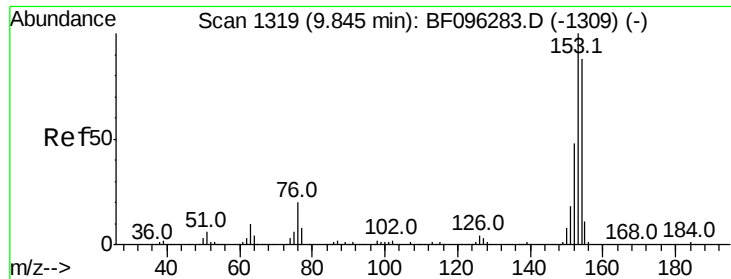
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#44
 2-Fluorobiphenyl
 Concen: 9.09 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF096247.D
 Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.6	44.4
170	23.6	19.8	29.8





#51

Acenaphthene

Concen: 5.85 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

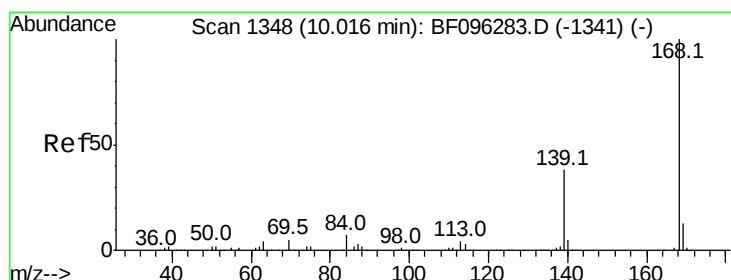
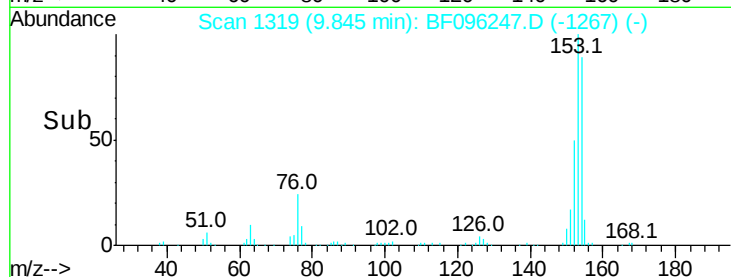
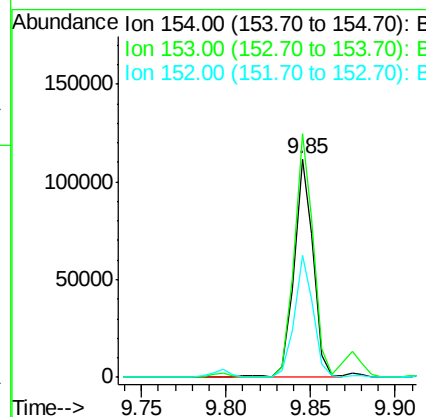
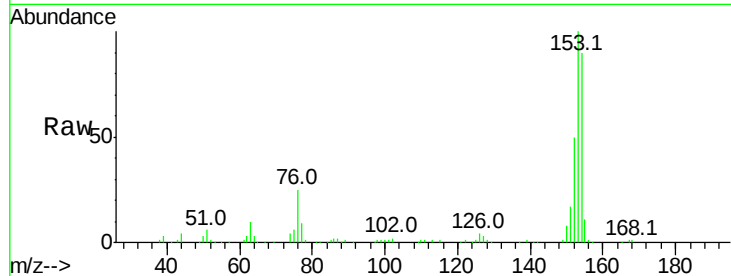
ClientSampleId :

OB-1DL

Tot Ion:	154	Resp:	89049
Ion Ratio	Lower	Upper	
154	100		
153	111.4	90.5	135.7
152	55.6	43.6	65.4

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#54

Dibenzofuran

Concen: 7.39 ng

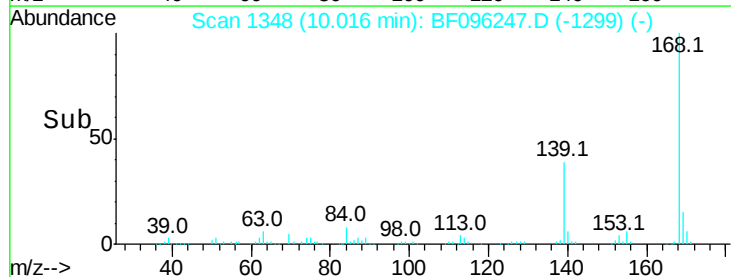
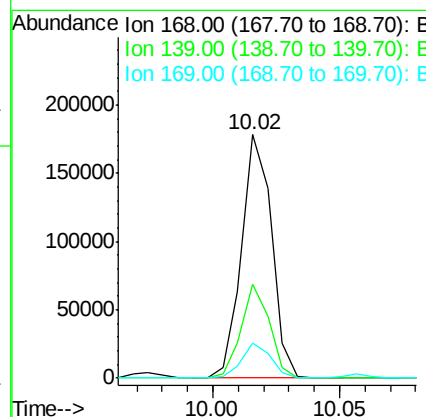
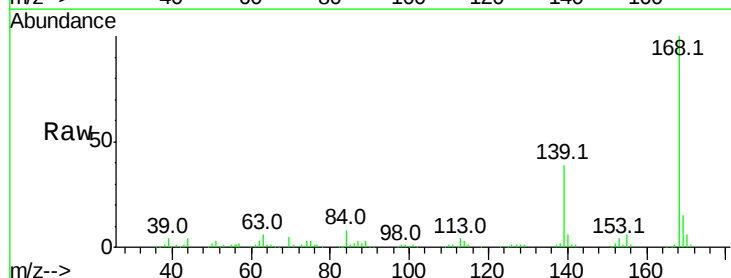
RT: 10.02 min Scan# 1348

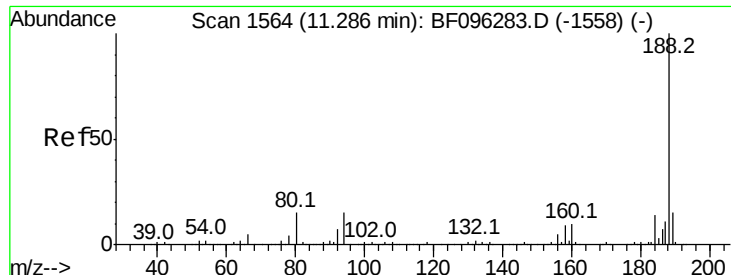
Delta R.T. -0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Tgt Ion:	168	Resp:	146928
Ion Ratio	Lower	Upper	
168	100		
139	38.5	30.6	45.8
169	14.6	10.8	16.2





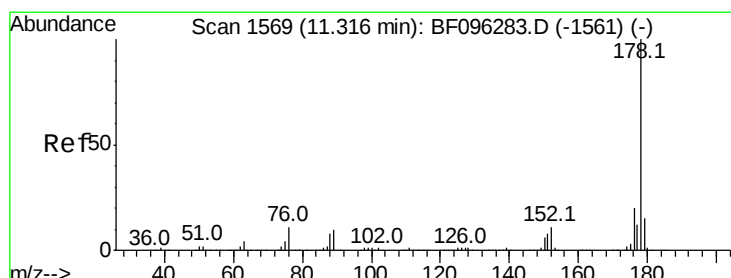
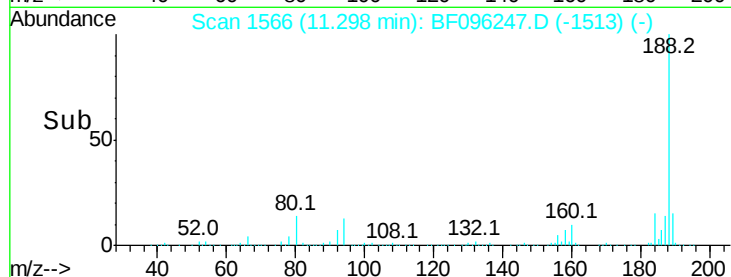
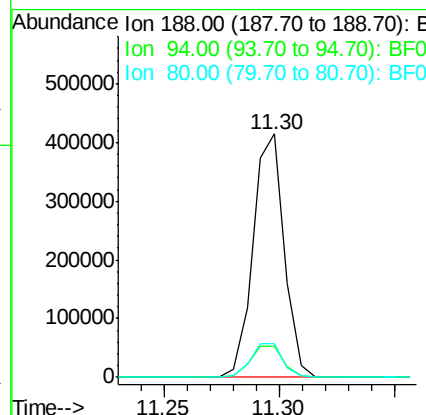
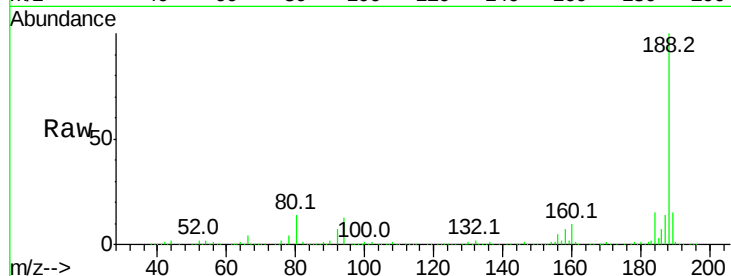
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 1566
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Instrument :
BNA_F
ClientSampled :
OB-1DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	389275		
94	13.0		9.4	14.2
80	14.0		10.2	15.2

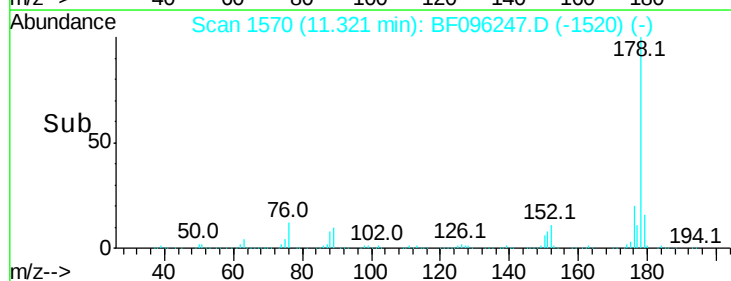
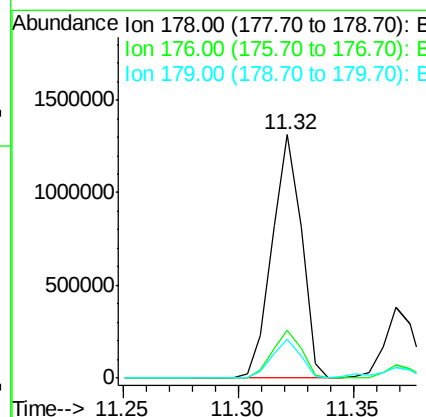
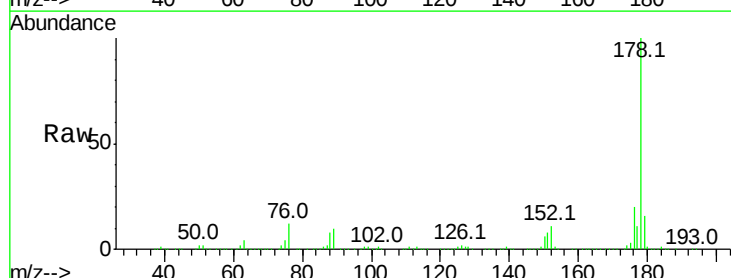
Manual Integrations
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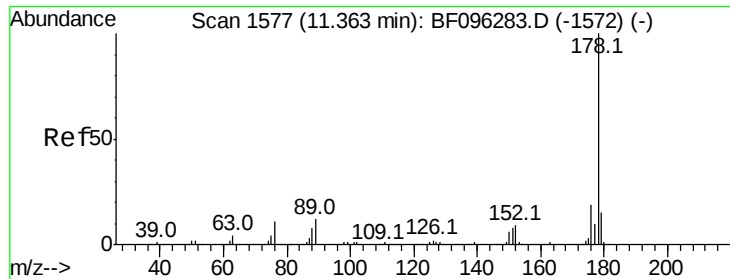
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#70
Phenanthrene
Concen: 62.50 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1161940		
176	19.8		16.2	24.4
179	15.8		12.6	19.0





#71

Anthracene

Concen: 14.90 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

ClientSampleId :

OB-1DL

Tot Ion:178 Resp: 324140

Ion Ratio Lower Upper

178 100

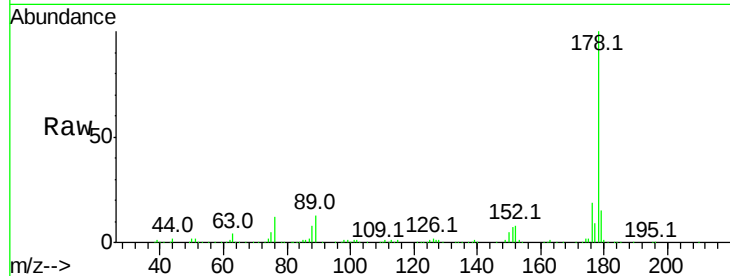
176 18.8 15.8 23.8

179 15.5 12.7 19.1

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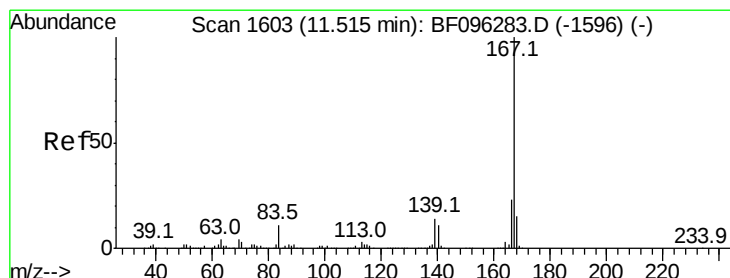
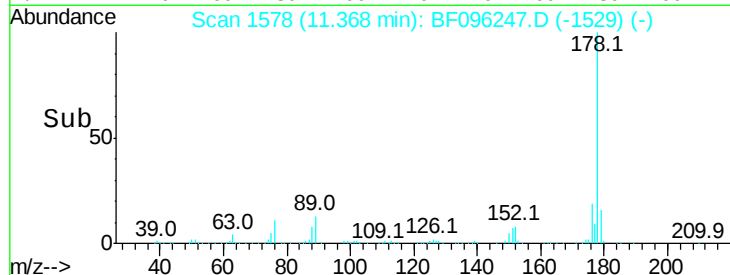
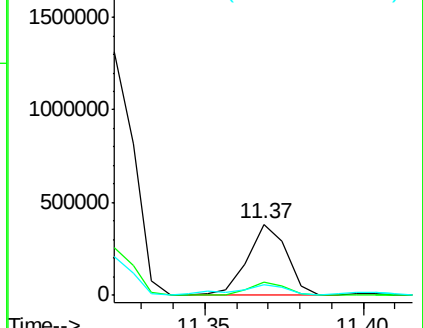
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 5.93 ng

RT: 11.52 min Scan# 1604

Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

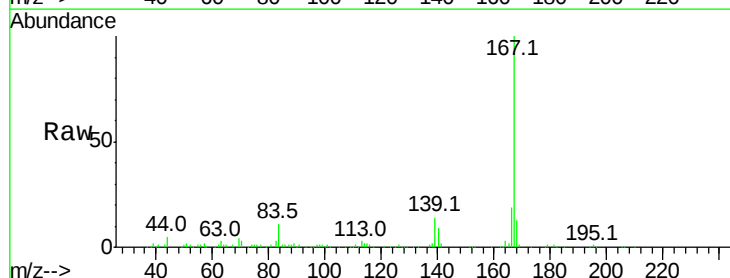
Tgt Ion:167 Resp: 142339

Ion Ratio Lower Upper

167 100

166 19.4 18.1 27.1

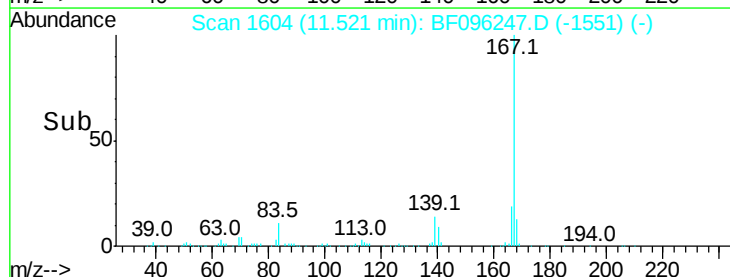
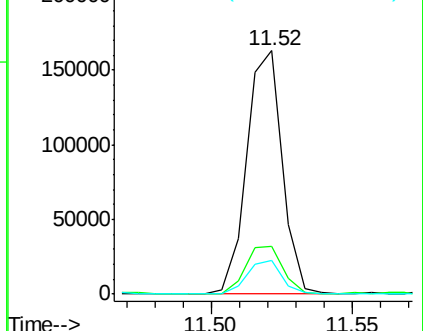
139 13.9 11.7 17.5

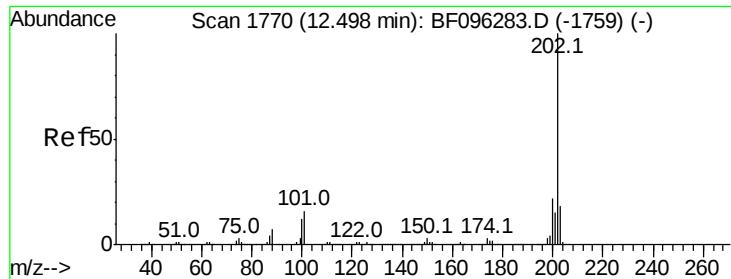


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 48.24 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.02 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

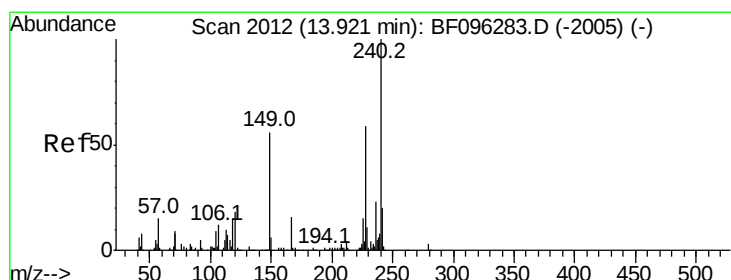
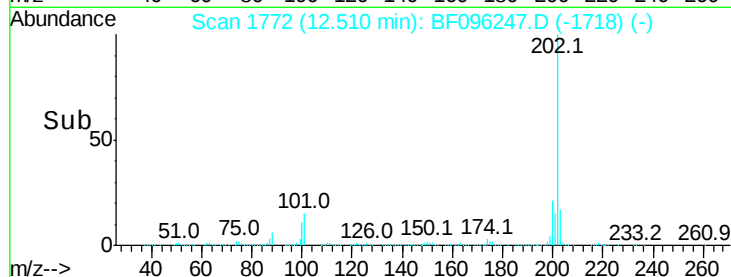
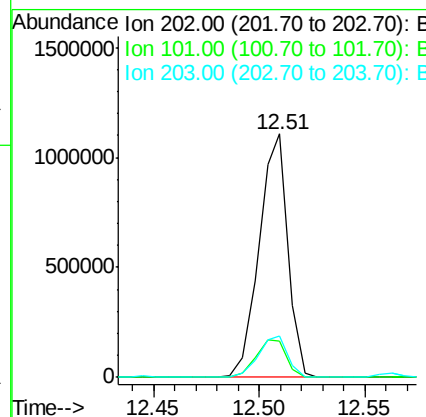
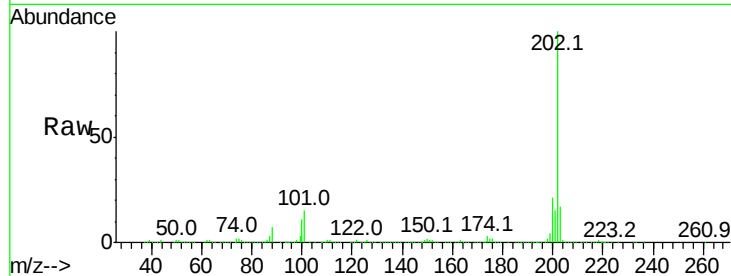
ClientSampled :

OB-1DL

Tot Ion:	202	Resp:	1043072
Ion Ratio	Lower	Upper	
202	100		
101	14.8	0.0	33.2
203	17.2	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

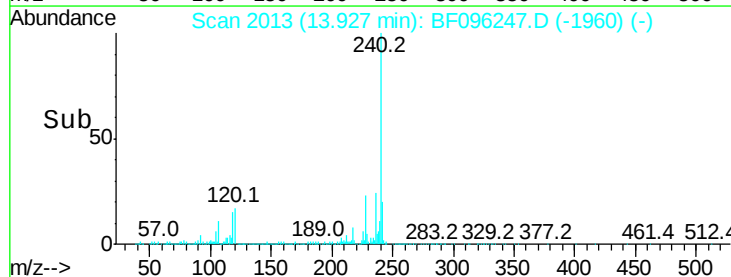
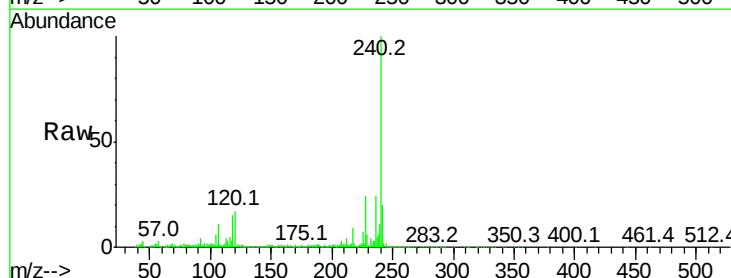
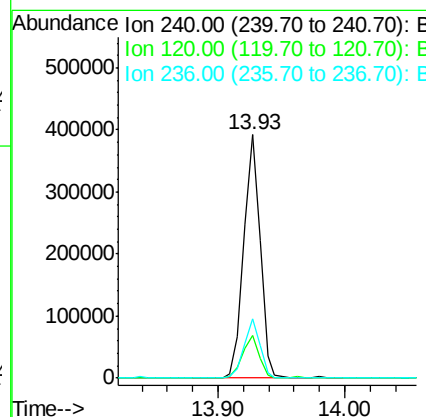
RT: 13.93 min Scan# 2013

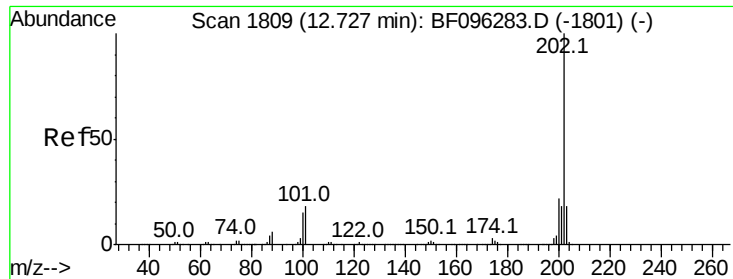
Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Tgt Ion:	240	Resp:	346970
Ion Ratio	Lower	Upper	
240	100		
120	17.3	5.8	8.8#
236	24.3	20.5	30.7





#77

Pvrene

Concen: 32.02 ng

RT: 12.73 min Scan# 1810

Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

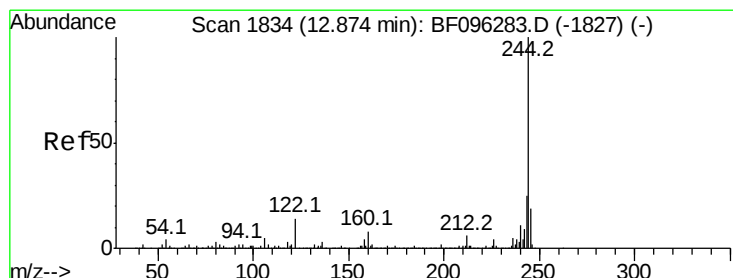
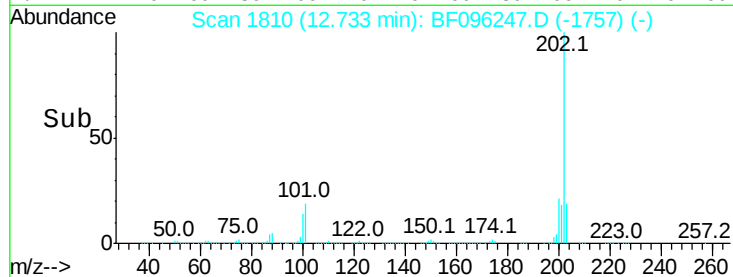
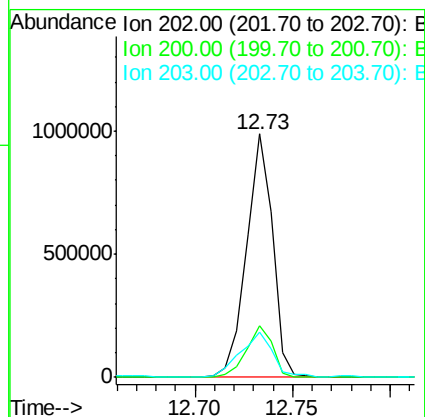
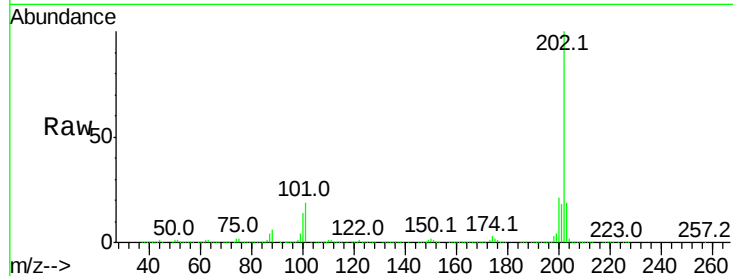
ClientSampleId :

OB-1DL

Tot Ion:	202	Resp:	913124
Ion Ratio		Lower	Upper
202	100		
200	21.4	17.6	26.4
203	18.6	14.4	21.6

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#78

Terphenyl-d14

Concen: 6.25 ng

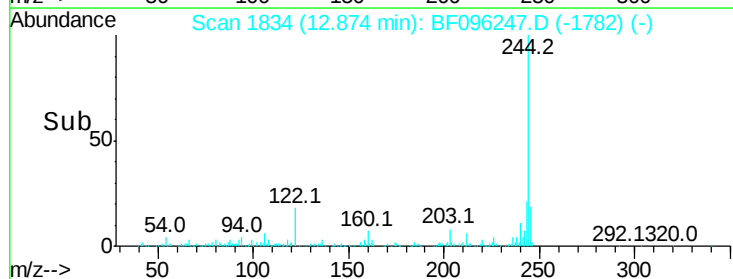
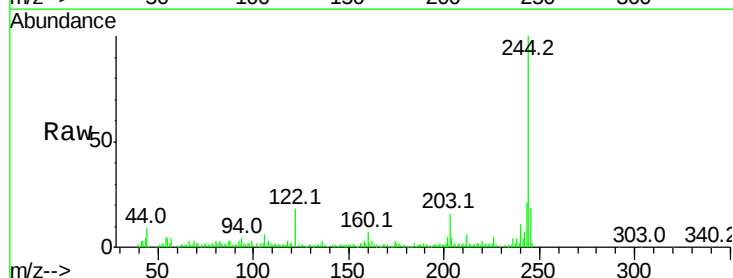
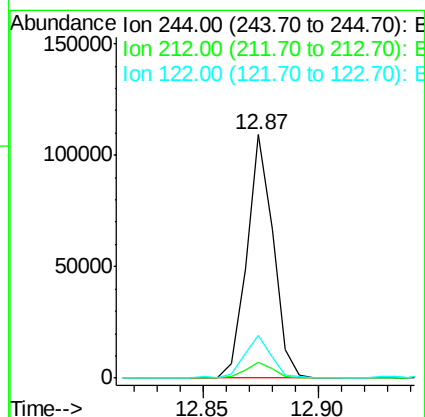
RT: 12.87 min Scan# 1834

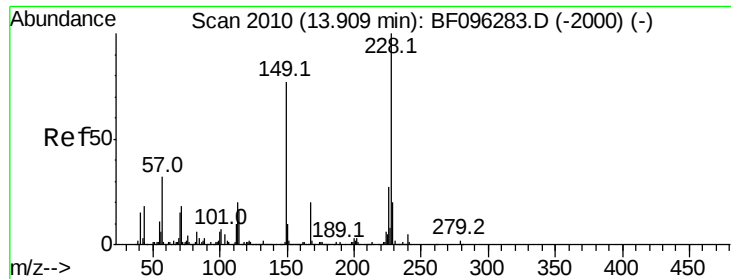
Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Tgt Ion:	244	Resp:	86968
Ion Ratio		Lower	Upper
244	100		
212	6.4	6.0	9.0
122	17.5	10.3	15.5#





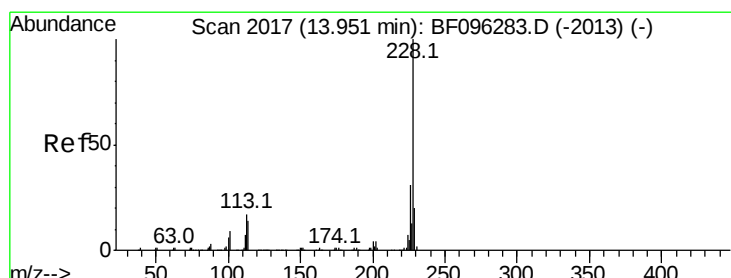
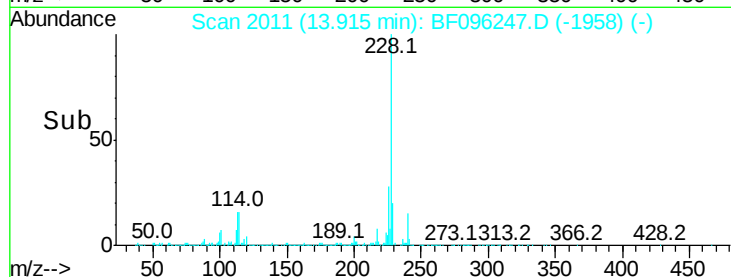
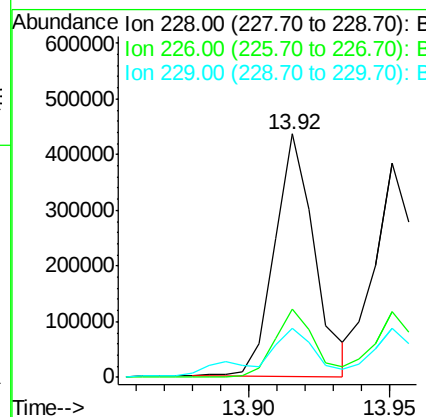
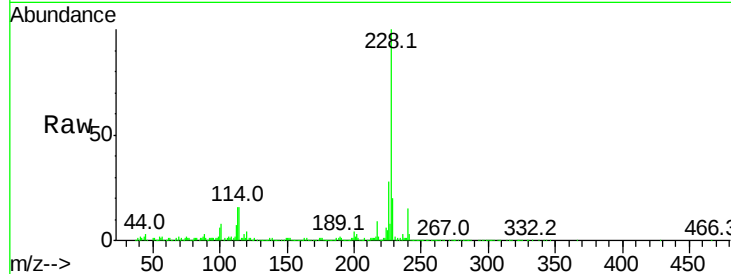
#80
Benzo(a)anthracene
Concen: 20.13 ng
RT: 13.92 min Scan# 2011
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Instrument :
BNA_F
ClientSampled :
OB-1DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.1	16.3	24.5

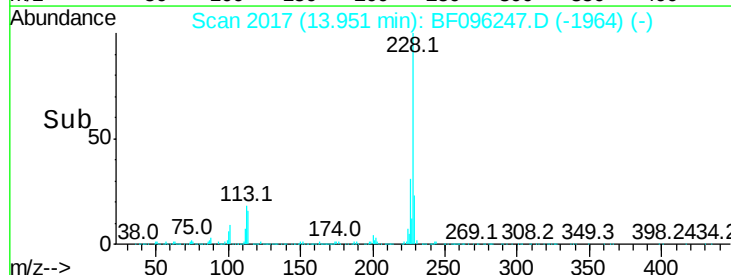
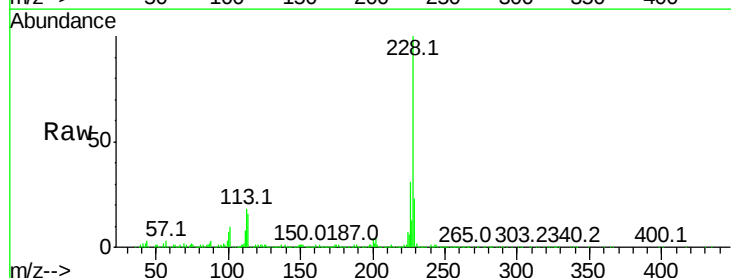
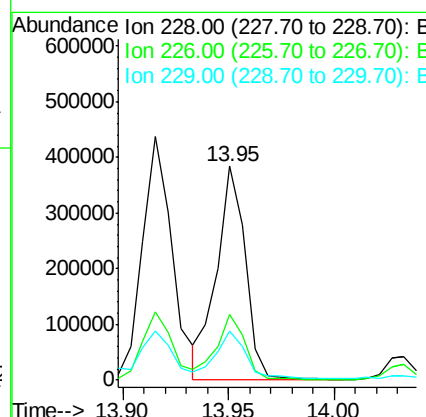
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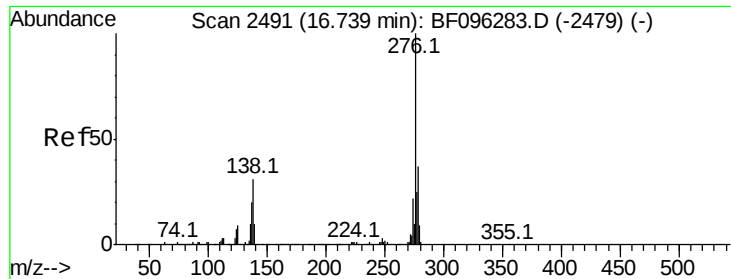
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#82
Chrysene
Concen: 16.54 ng
RT: 13.95 min Scan# 2017
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	23.2	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 9.49 ng

RT: 16.74 min Scan# 2492

Delta R.T. 0.03 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

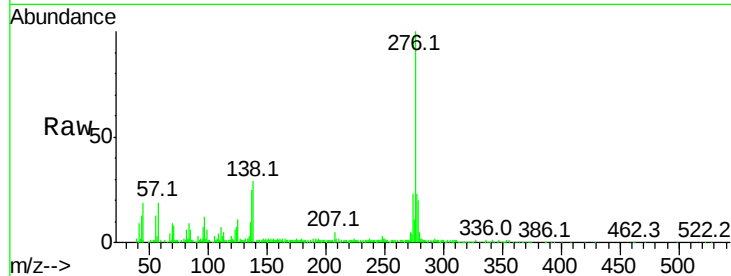
ClientSampleId :

OB-1DL

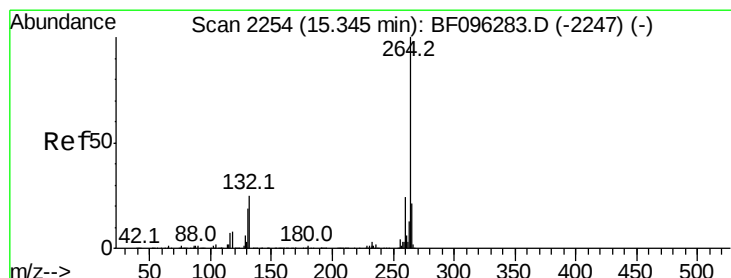
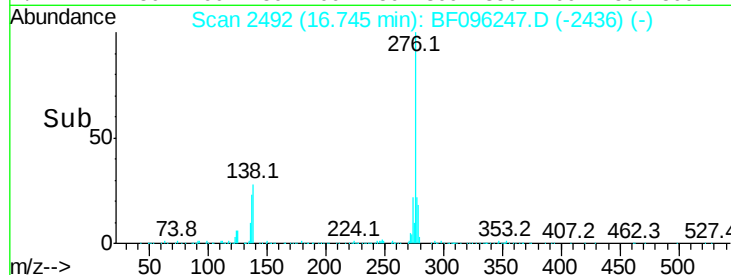
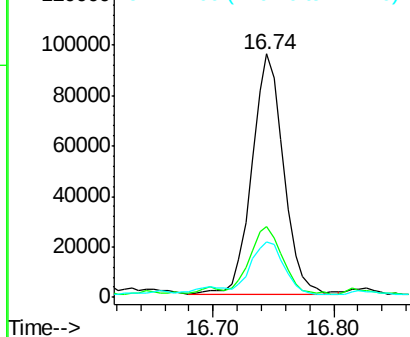
Tot Ion:	276	Resp:	172283
Ion Ratio	Lower	Upper	
276	100		
138	29.3	27.8	41.6
277	23.4	20.2	30.4

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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



#86

Perylene-d12

Concen: 20.00 ng

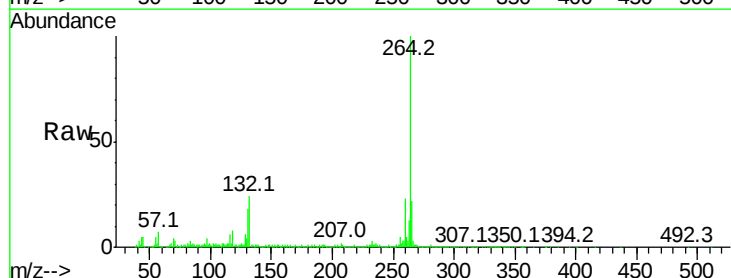
RT: 15.36 min Scan# 2256

Delta R.T. 0.02 min

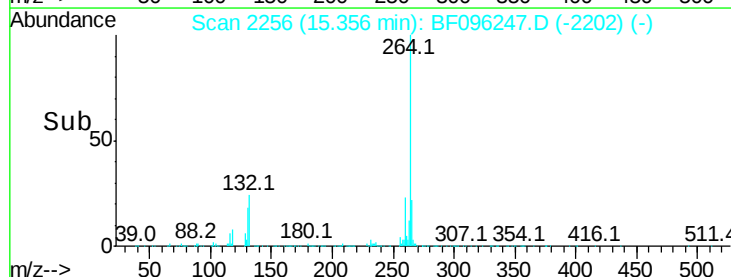
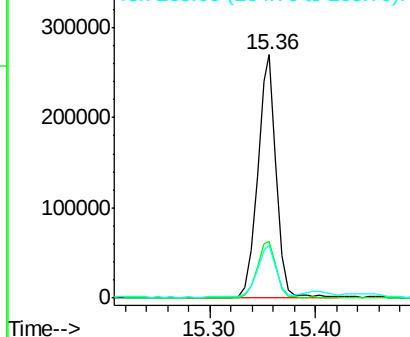
Lab File: BF096247.D

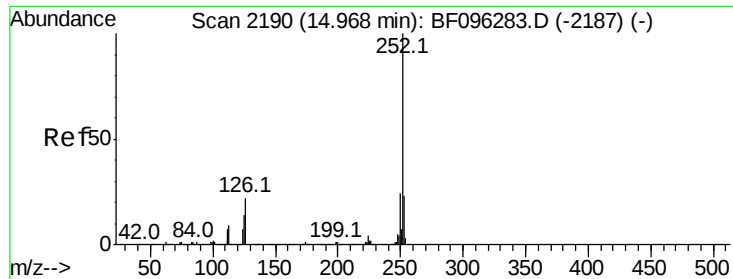
Acq: 28 Jun 2017 14:11

Tgt Ion:	264	Resp:	329154
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.5	29.3
265	22.0	17.2	25.8



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: 20.16 ng m

RT: 14.94 min Scan# 2186

Delta R.T. -0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Instrument :

BNA_F

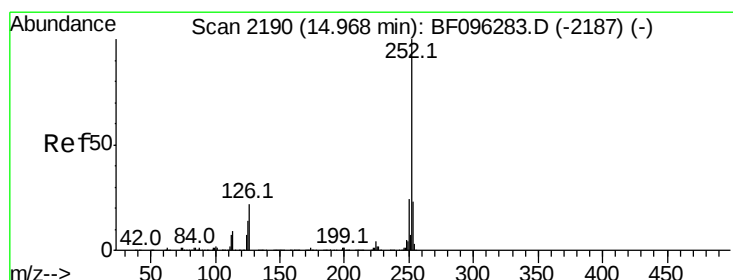
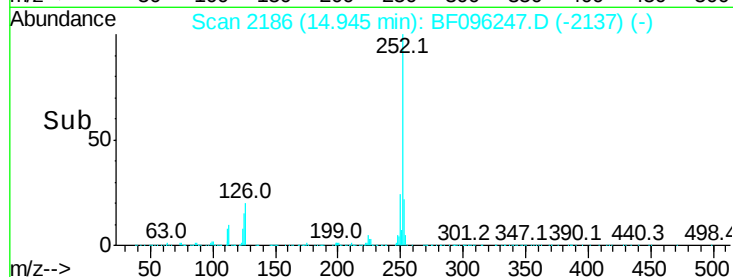
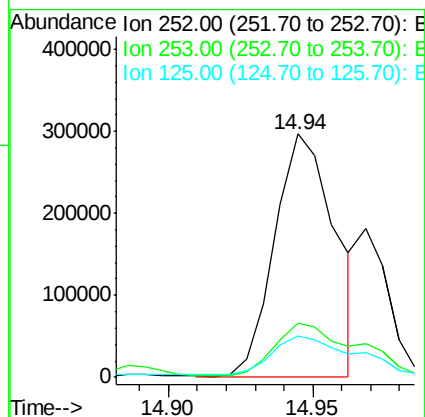
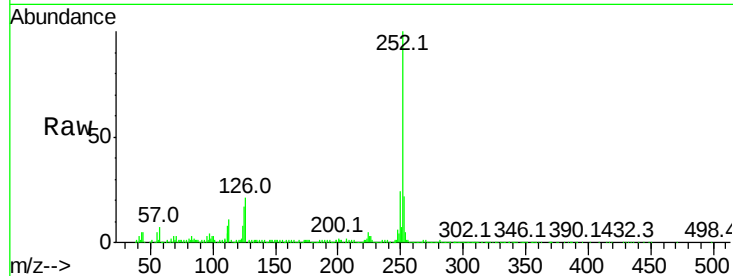
ClientSampleId :

OB-1DL

Tot Ion:	252	Resp:	435913
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.1	27.1
125	16.8	9.8	14.8#

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#88

Benzo(k)fluoranthene

Concen: 6.88 ng m

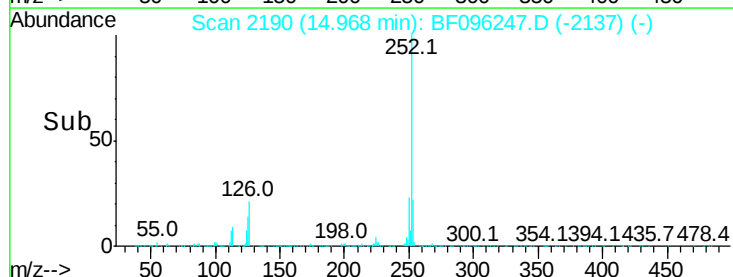
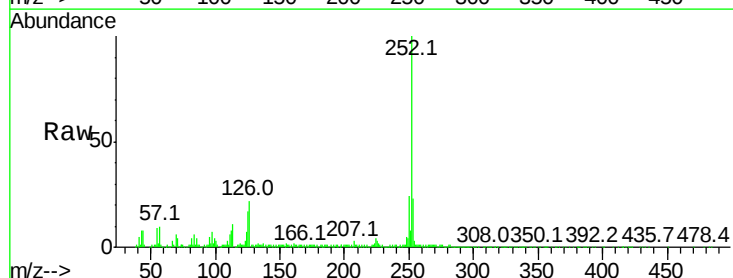
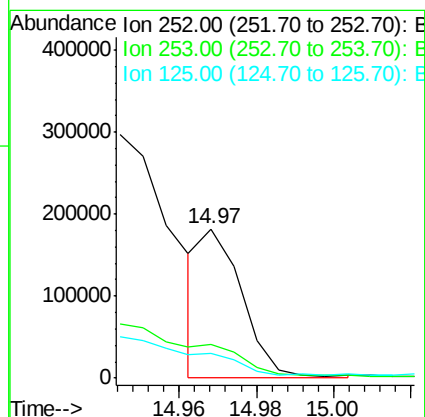
RT: 14.97 min Scan# 2190

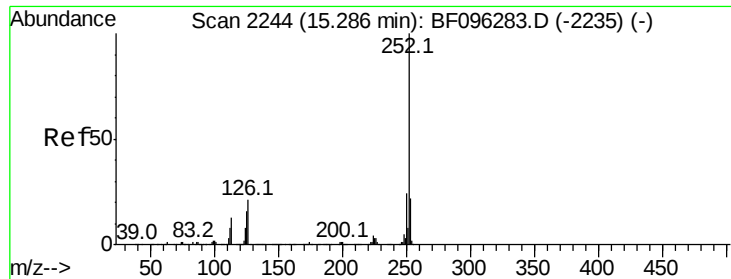
Delta R.T. 0.01 min

Lab File: BF096247.D

Acq: 28 Jun 2017 14:11

Tgt Ion:	252	Resp:	135754
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.4	27.6
125	16.5	13.1	19.7





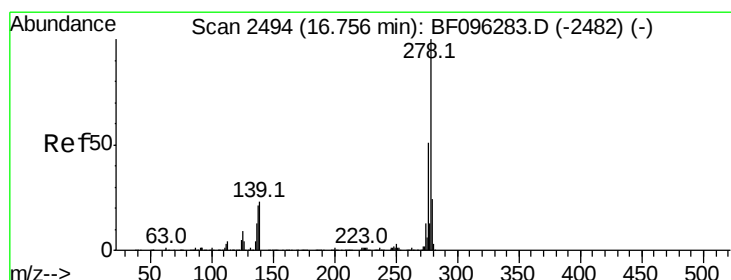
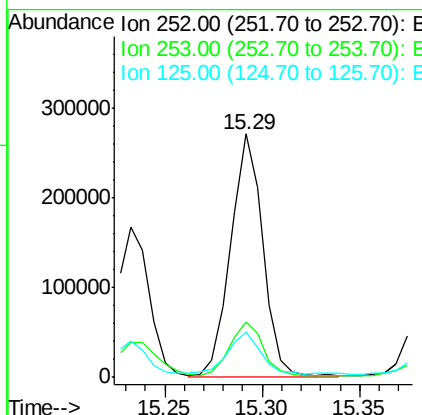
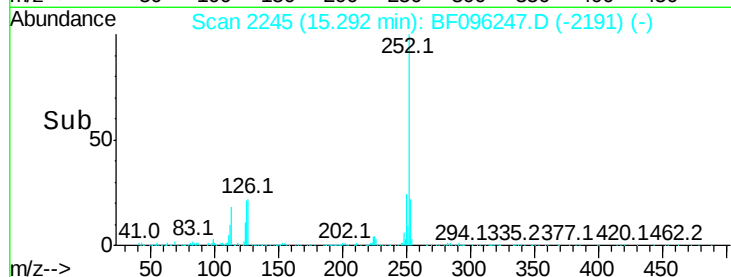
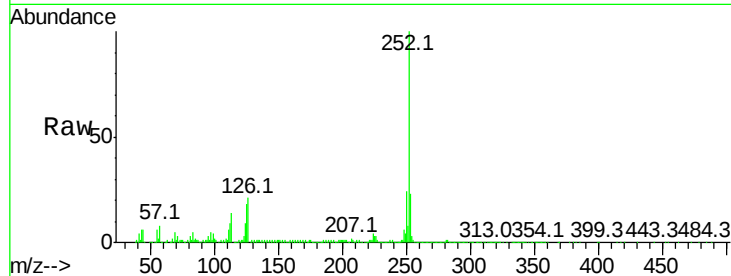
#89
Benzo(a)pyrene
Concen: 16.07 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.02 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Instrument :
BNA_F
ClientSampleId :
OB-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	18.5	11.0	16.4

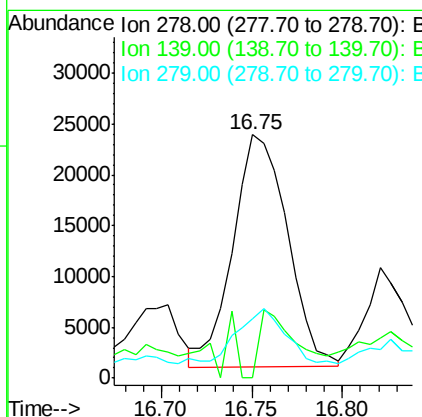
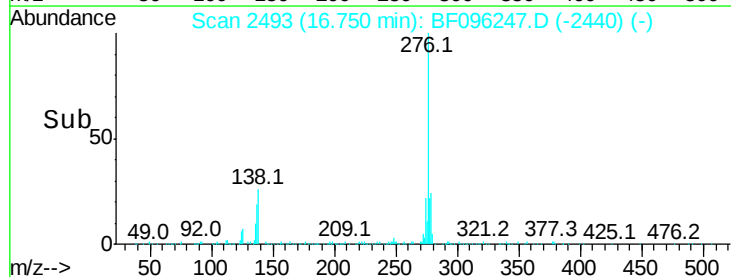
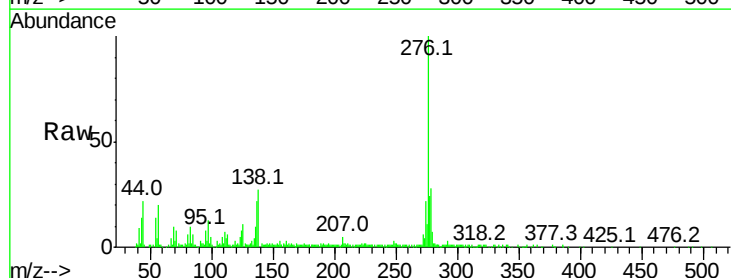
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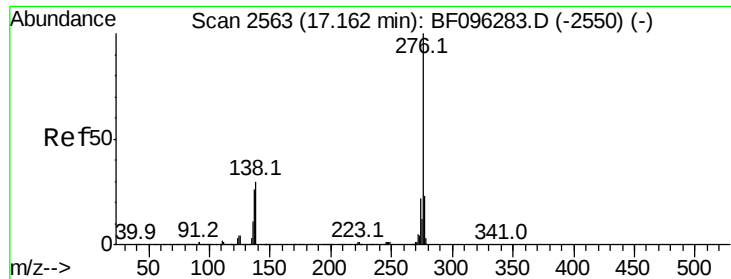
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#90
Dibenzo(a,h)anthracene
Concen: 3.19 ng
RT: 16.75 min Scan# 2493
Delta R.T. 0.01 min
Lab File: BF096247.D
Acq: 28 Jun 2017 14:11

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8
279	24.5	19.3	28.9





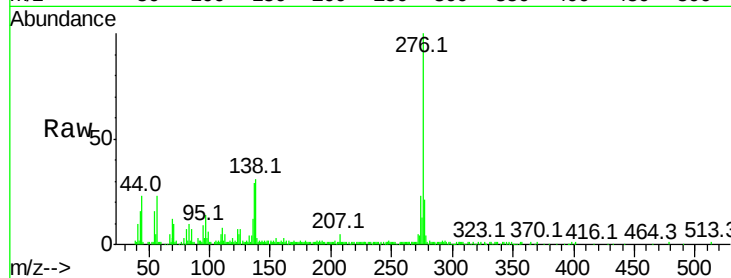
#91
 Benzo(a,h,i)perylene
 Concen: 10.20 ng
 RT: 17.17 min Scan# 2564
 Delta R.T. 0.04 min
 Lab File: BF096247.D
 Acq: 28 Jun 2017 14:11

Instrument :
 BNA_F
 ClientSampleId :
 OB-1DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.4	18.6	28.0
138	30.8	25.4	38.0

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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

