

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
 Data File : BF096227.D
 Acq On : 27 Jun 2017 20:21
 Operator : SJ/MA
 Sample : I3920-03 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OB-3

Manual Integrations
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 6/30/2017 12:46:39 PM

Quant Time: Jun 28 16:15:41 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	181767	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	746935	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	285586	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	390905	20.00	ng	0.00
75) Chrysene-d12	13.92	240	322165	20.00	ng	0.00
86) Perylene-d12	15.34	264	281188	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	352772	27.96	ng	0.00
7) Phenol-d6	6.40	99	425228	27.83	ng	0.00
23) Nitrobenzene-d5	7.33	82	223139	20.68	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	54150	24.09	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	317826	20.38	ng	-0.02
78) Terphenyl-d14	12.87	244	165278	12.80	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.08	128	254714	7.075	ng	99
37) 2-Methylnaphthalene	8.77	142	83679	3.578	ng	95
49) Dimethylphthalate	9.53	163	68423	3.348	ng	# 97
51) Acenaphthene	9.84	154	129546	7.298	ng	97
54) Dibenzofuran	10.02	168	161341	6.961	ng	98
57) Fluorene	10.36	166	190281	4.354	ng	100
70) Phenanthrene	11.32	178	1335995	72.908	ng	100
71) Anthracene	11.36	178	425485	19.477	ng	99
72) Carbazole	11.52	167	180773	7.496	ng	98
74) Fluoranthene	12.50	202	1381613	63.626	ng	97
77) Pyrene	12.73	202	1225003	46.268	ng	99
80) Benzo(a)anthracene	13.91	228	684183	34.839	ng	98
82) Chrysene	13.94	228	593196	29.205	ng	96
85) Indeno(1,2,3-cd)pyrene	16.73	276	230344	13.662	ng	99
87) Benzo(b)fluoranthene	14.94	252	674841m	36.534	ng	
88) Benzo(k)fluoranthene	14.96	252	211578m	12.547	ng	
89) Benzo(a)pyrene	15.29	252	469115	28.754	ng	# 94
90) Dibenzo(a,h)anthracene	16.74	278	65128m	5.098	ng	
91) Benzo(g,h,i)perylene	17.14	276	215290	16.213	ng	97

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

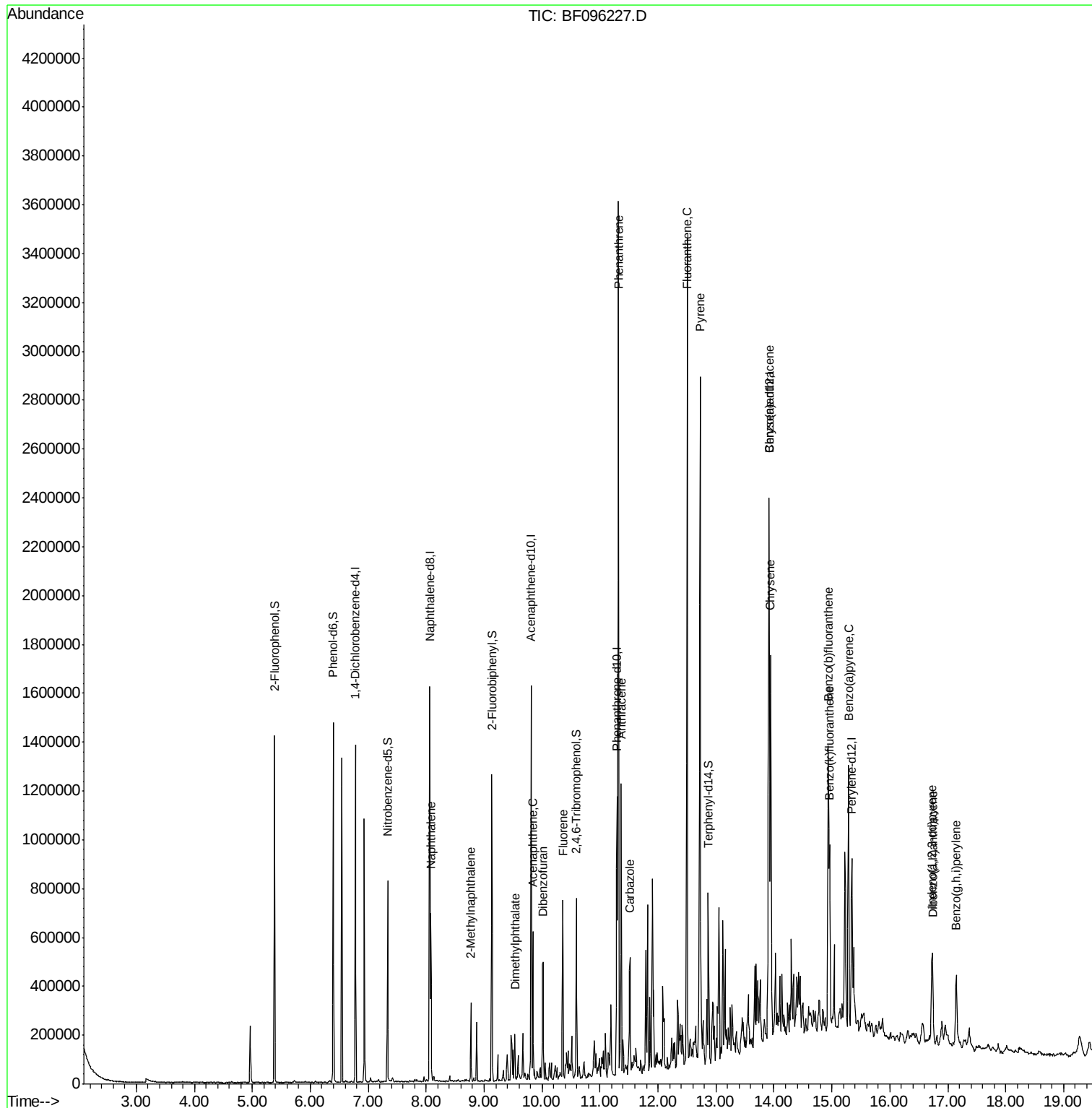
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
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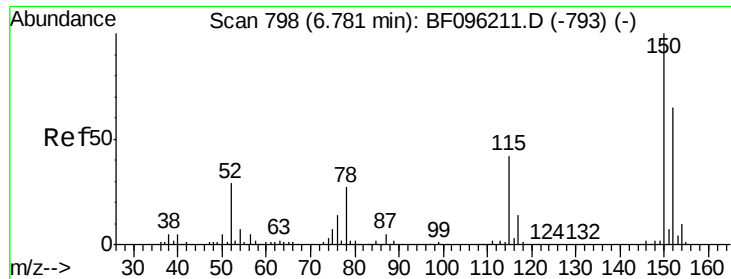
Instrument :
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#1

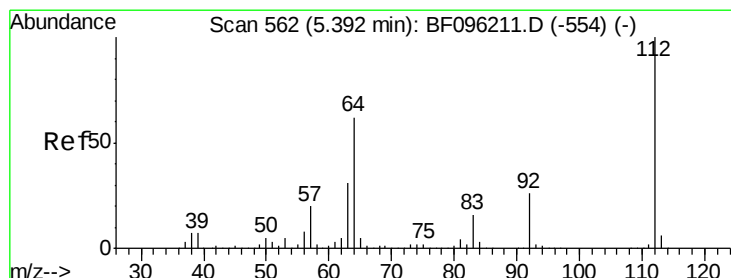
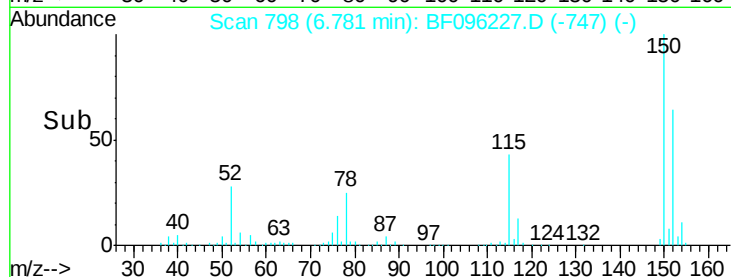
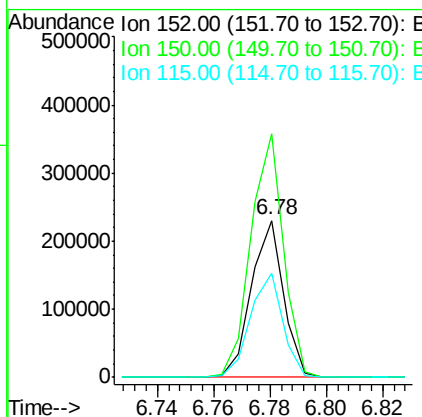
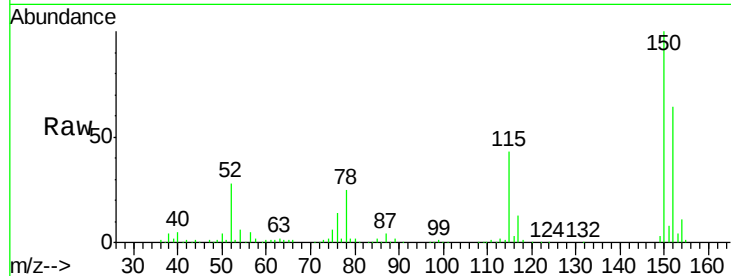
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.00 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampleId :
OB-3

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	181767		
150	155.3	126.2	189.2	
115	66.2	52.2	78.2	

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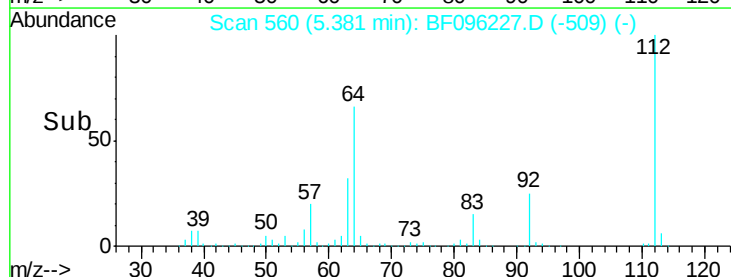
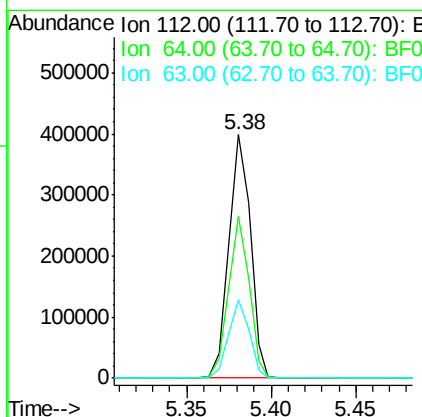
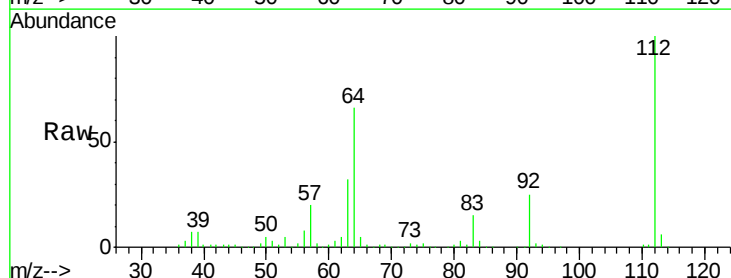
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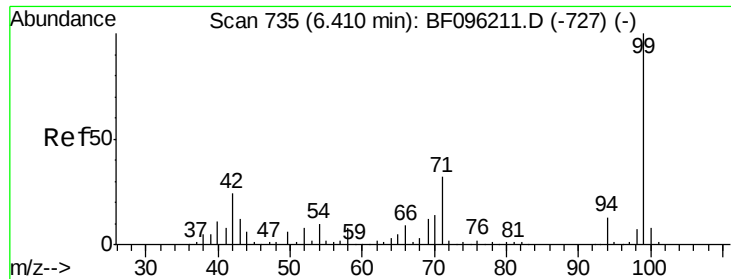


#5

2-Fluorophenol
Concen: 27.961 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	352772		
64	66.2	46.0	69.0	
63	32.5	23.4	35.0	





#7

Phenol-d6

Concen: 27.834 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096227.D

Acq: 27 Jun 2017 20:21

Instrument :

BNA_F

ClientSampleId :

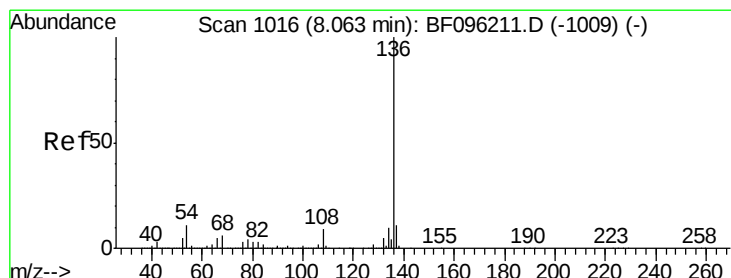
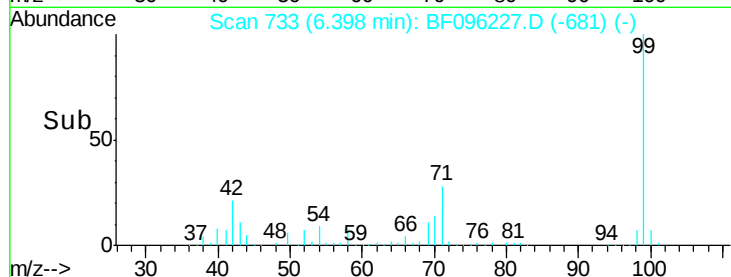
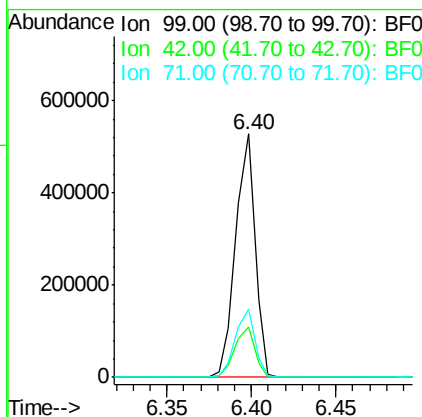
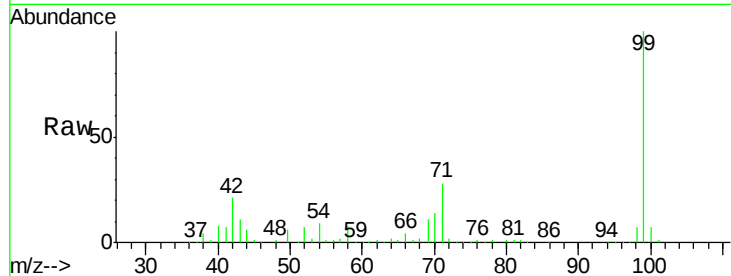
OB-3

Tgt Ion: 99 Resp: 425228

Ion	Ratio	Lower	Upper
99	100		
42	20.9	13.5	20.3#
71	28.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

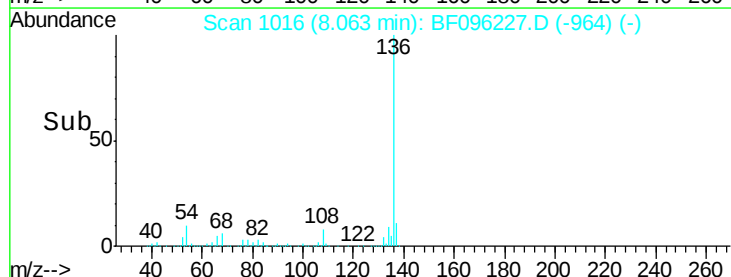
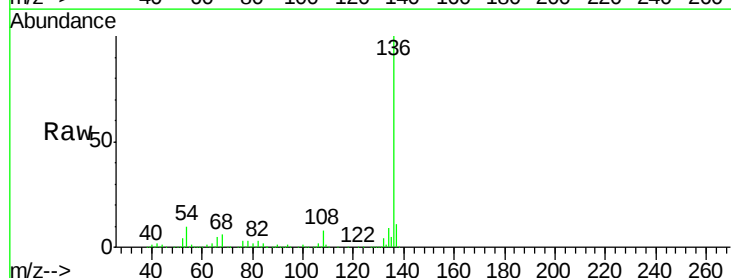
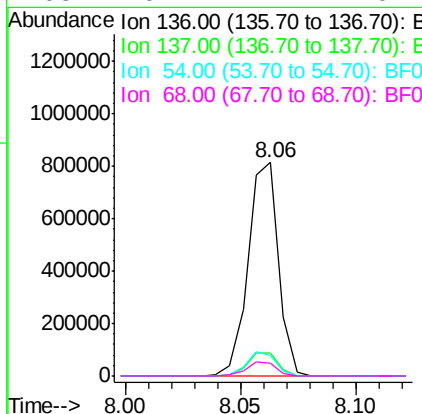
Delta R.T. 0.01 min

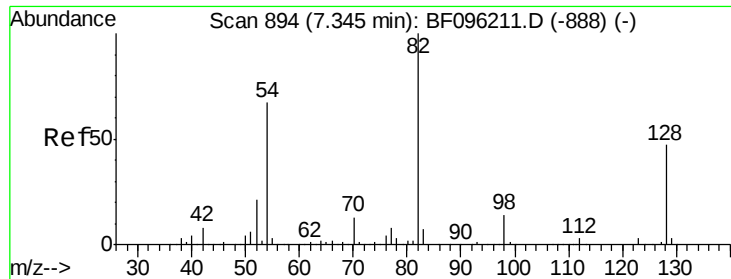
Lab File: BF096227.D

Acq: 27 Jun 2017 20:21

Tgt Ion: 136 Resp: 746935

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	9.9	4.9	7.3#
68	6.1	4.1	6.1





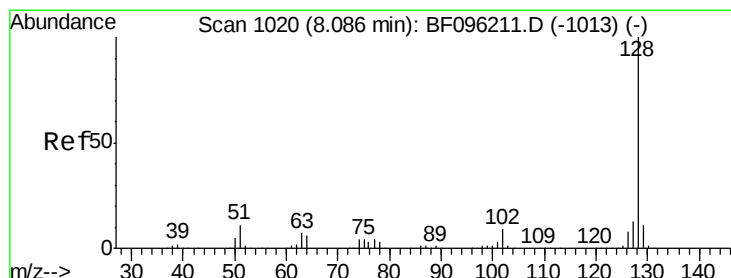
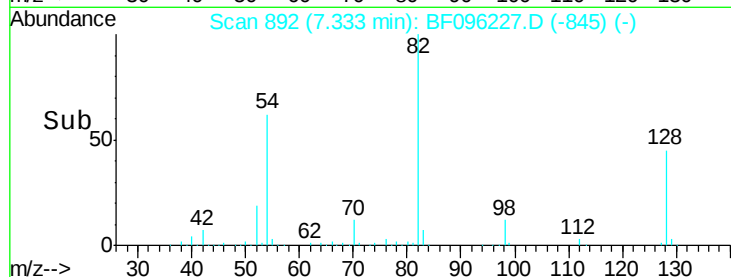
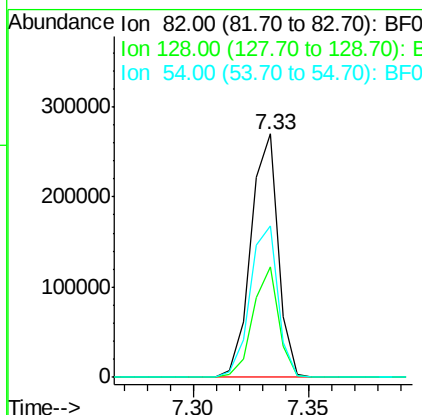
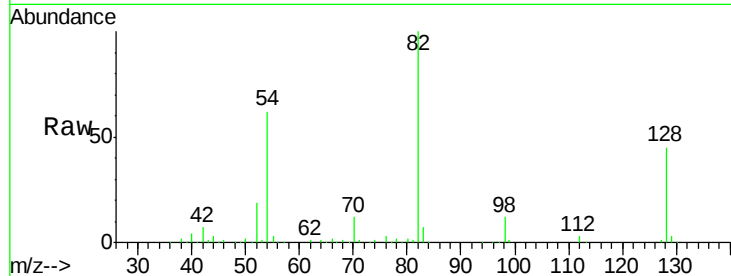
#23
 Nitrobenzene-d5
 Concen: 20.680 ng
 RT: 7.33 min Scan# 892
 Delta R.T. -0.02 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Instrument :
 BNA_F
 ClientSampled :
 OB-3

Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.0	51.0
54	62.1	42.2	63.2

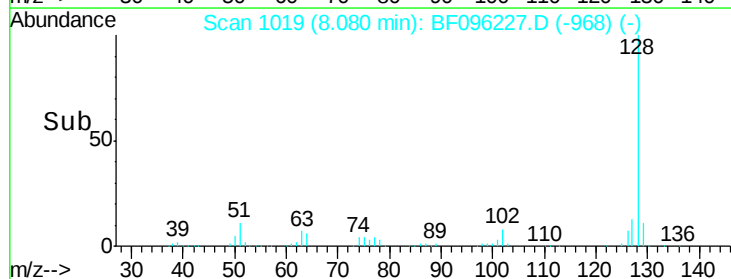
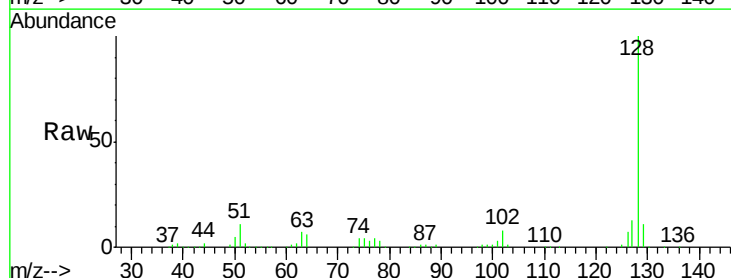
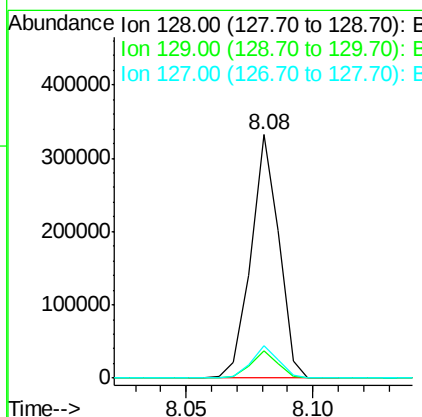
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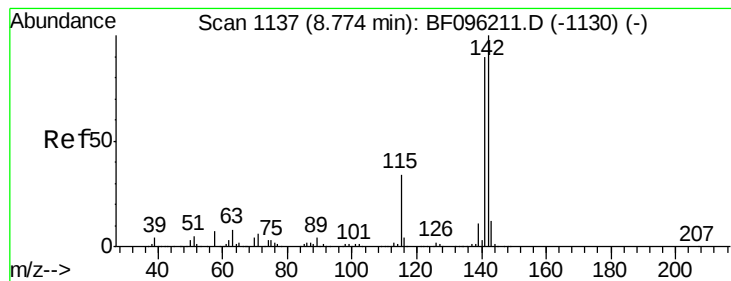
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#31
 Naphthalene
 Concen: 7.075 ng
 RT: 8.08 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.6
127	13.2	10.8	16.2





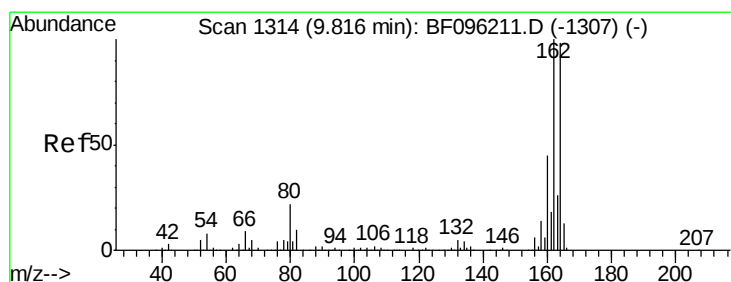
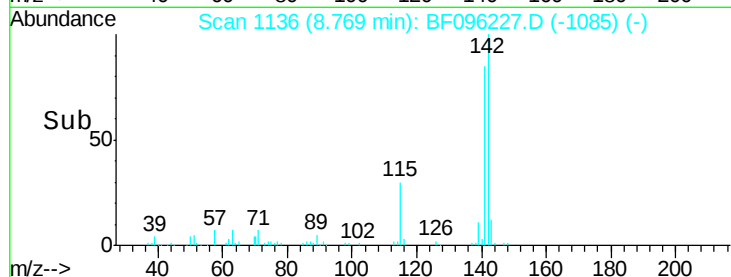
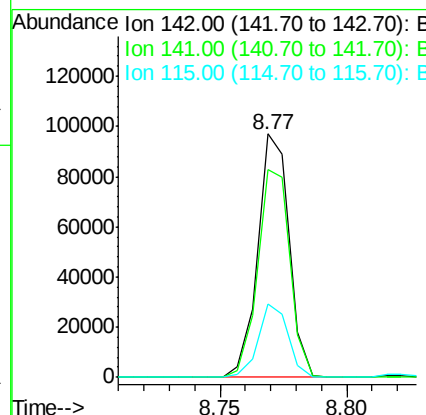
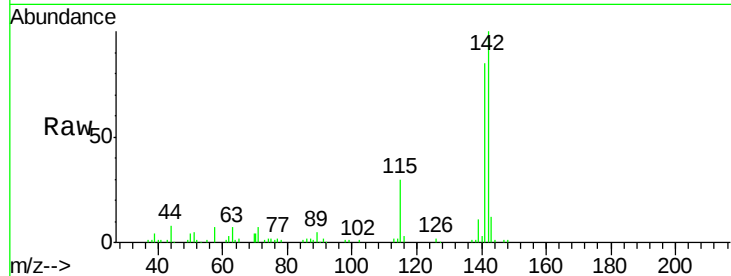
#37
2-Methylnaphthalene
Concen: 3.578 ng
RT: 8.77 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampleId :
OB-3

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.2	71.3	106.9
115	30.1	27.1	40.7

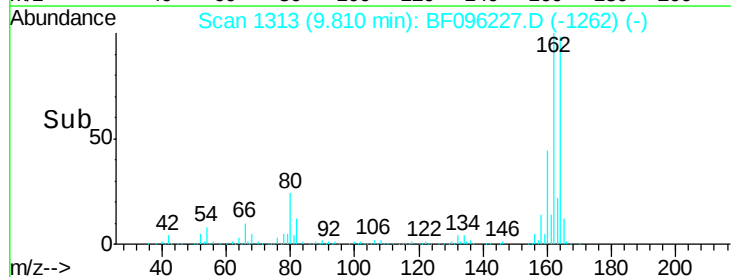
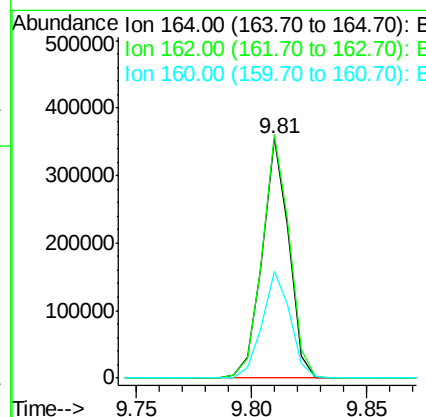
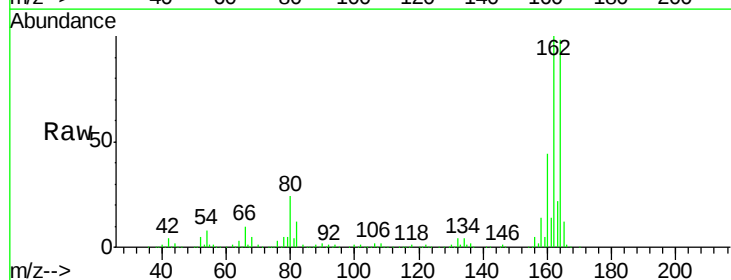
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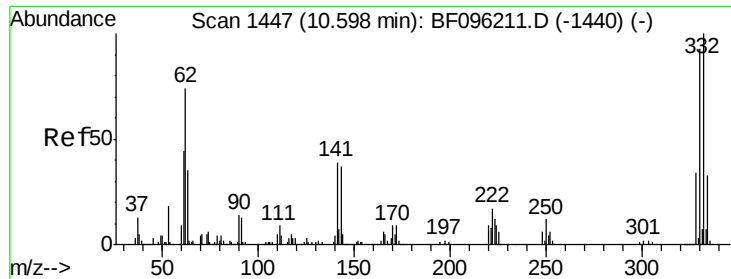
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.00 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.6	123.8
160	44.7	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 24.093 ng

RT: 10.59 min Scan# 1446

Delta R.T. -0.00 min

Lab File: BF096227.D

Acq: 27 Jun 2017 20:21

Instrument :

BNA_F

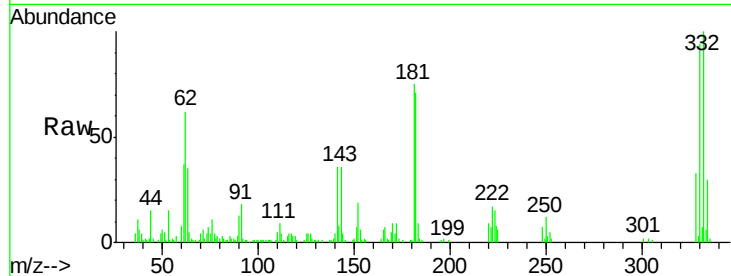
ClientSampled :

OB-3

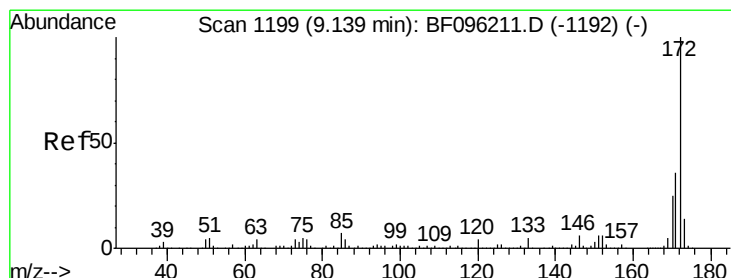
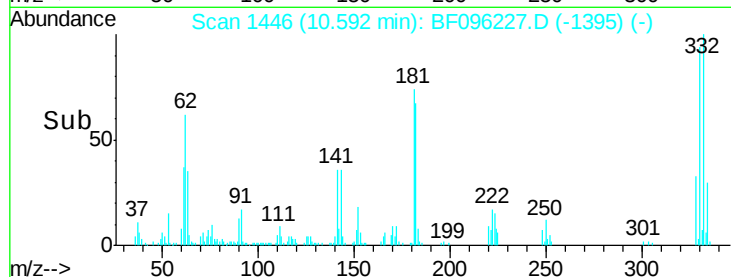
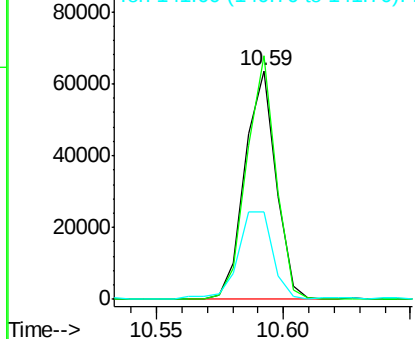
Tgt Ion:	330	Resp:	54150
Ion Ratio	Lower	Upper	
330	100		
332	99.9	76.6	115.0
141	43.5	31.4	47.2

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 20.381 ng

RT: 9.13 min Scan# 1198

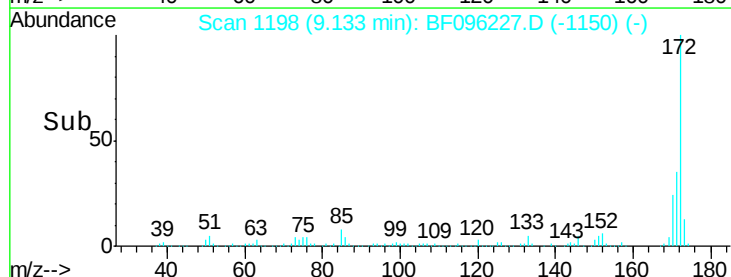
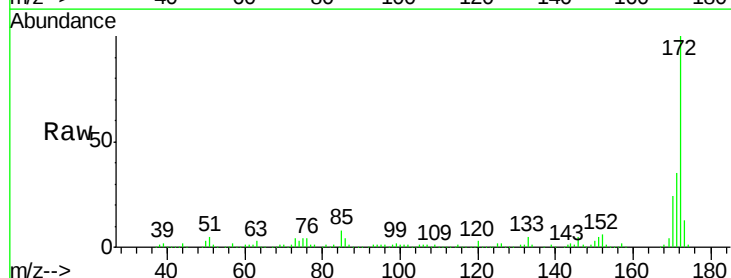
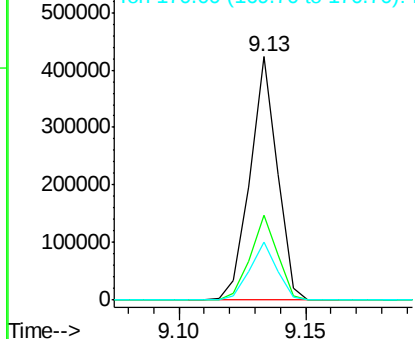
Delta R.T. -0.02 min

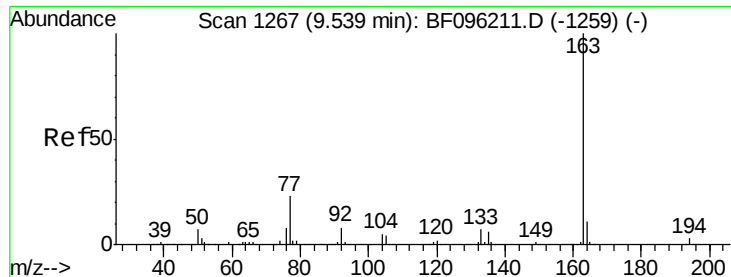
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Tgt Ion:	172	Resp:	317826
Ion Ratio	Lower	Upper	
172	100		
171	34.7	29.6	44.4
170	23.8	19.8	29.8

Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





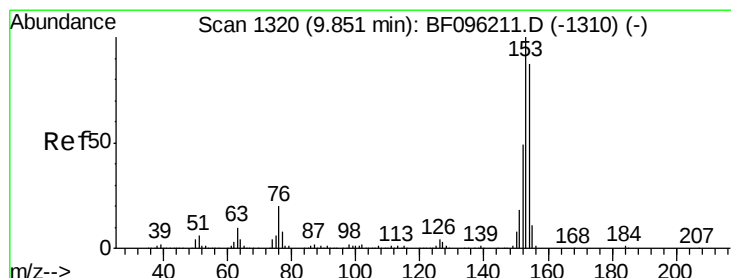
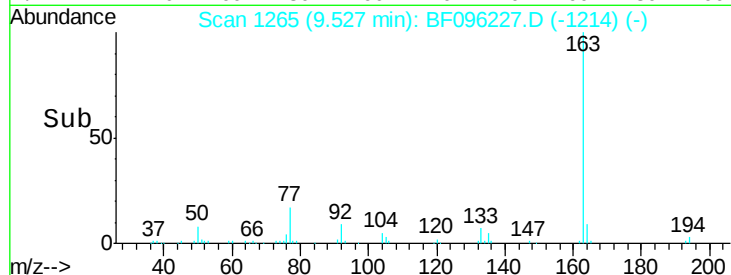
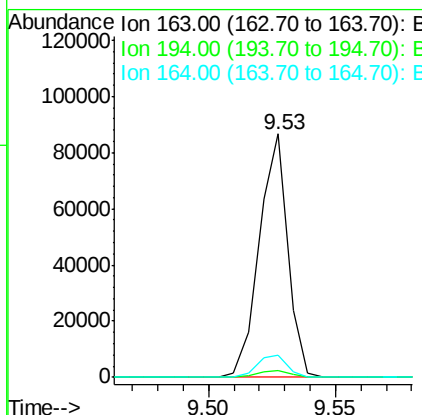
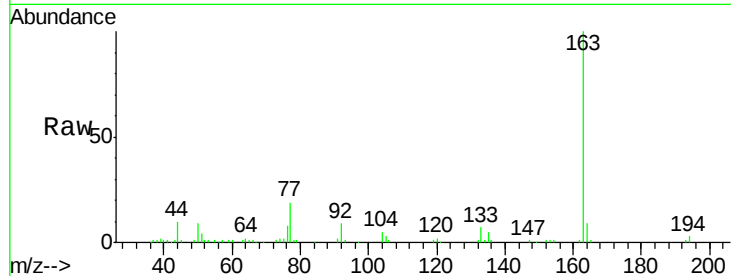
#49
Dimethylphthalate
Concen: 3.348 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.00 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampled :
OB-3

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	68423		
194	2.6		2.6	4.0#
164	9.4		8.4	12.6

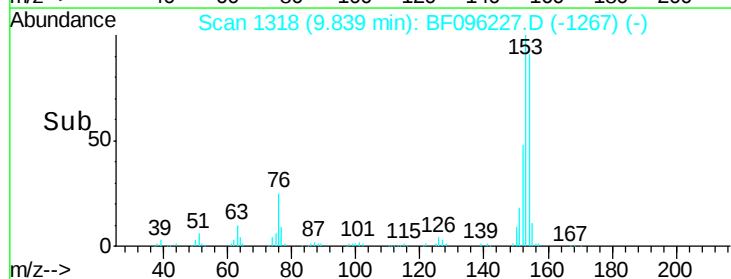
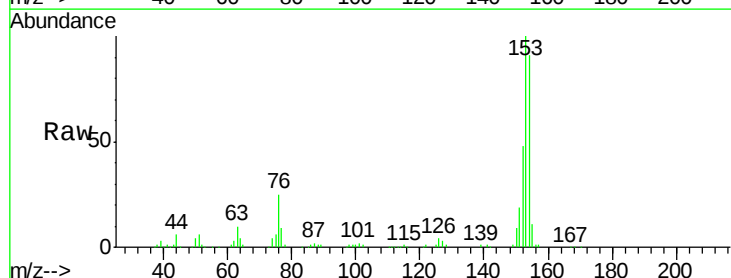
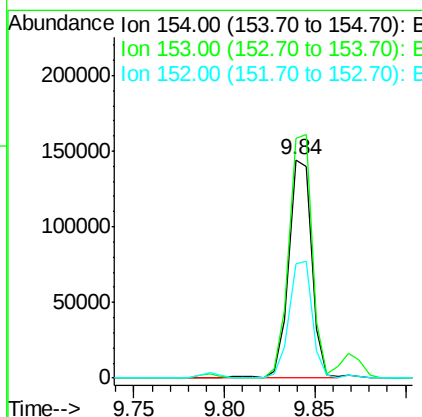
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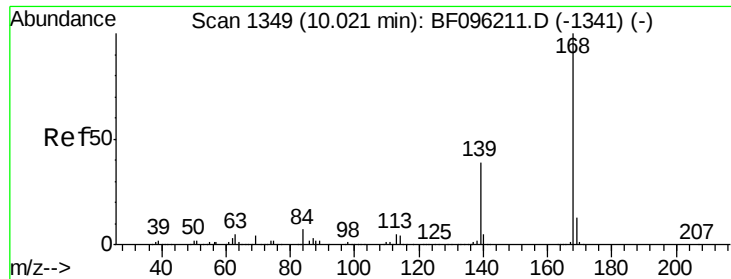
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#51
Acenaphthene
Concen: 7.298 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	129546		
153	109.7		90.5	135.7
152	52.2		43.6	65.4





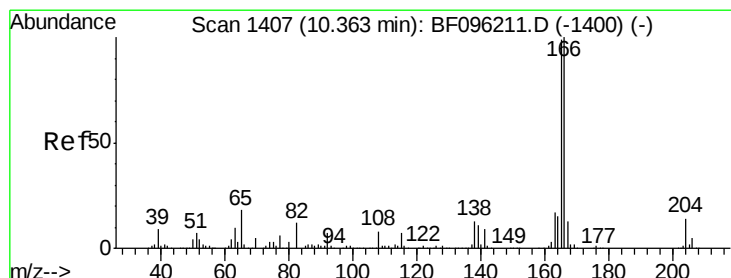
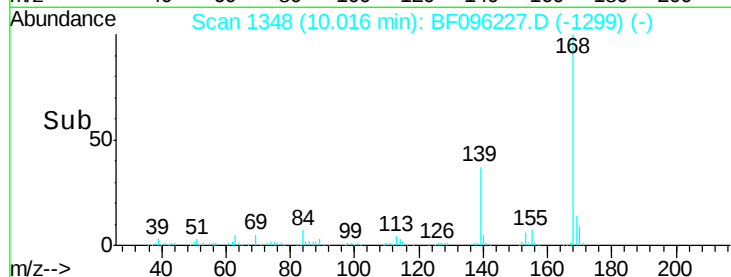
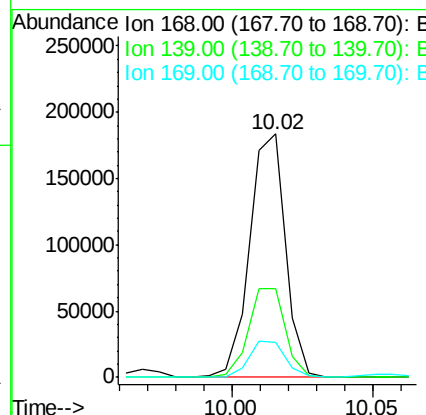
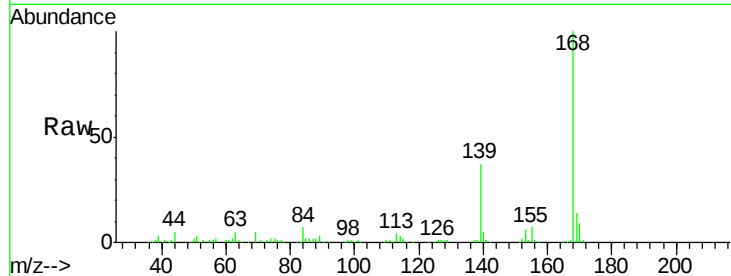
#54
Dibenzofuran
Concen: 6.961 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampled :
OB-3

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.6	30.6	45.8
169	14.2	10.8	16.2

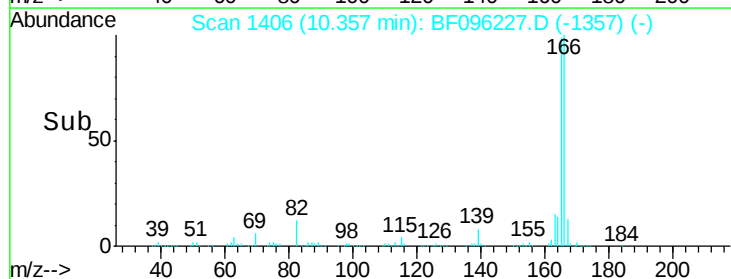
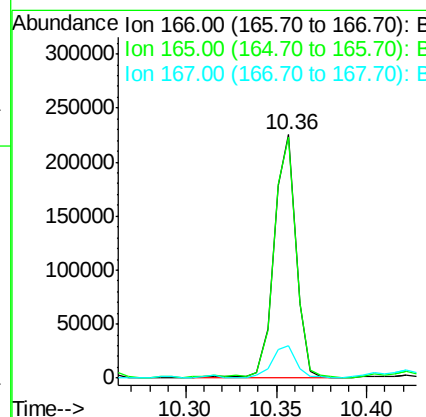
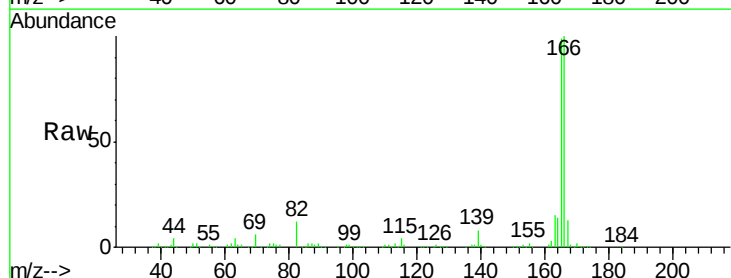
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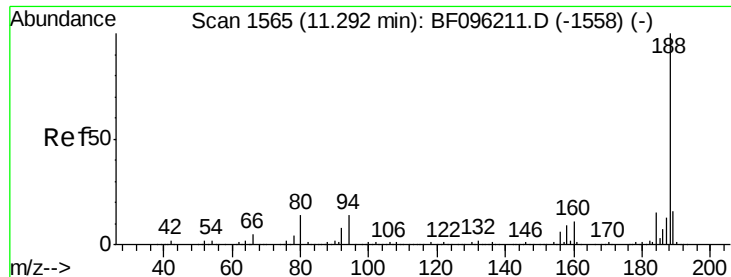
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#57
Fluorene
Concen: 4.354 ng
RT: 10.36 min Scan# 1406
Delta R.T. -0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.8	118.2
167	13.1	10.6	16.0





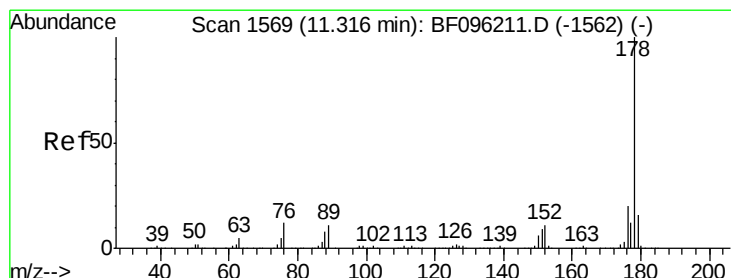
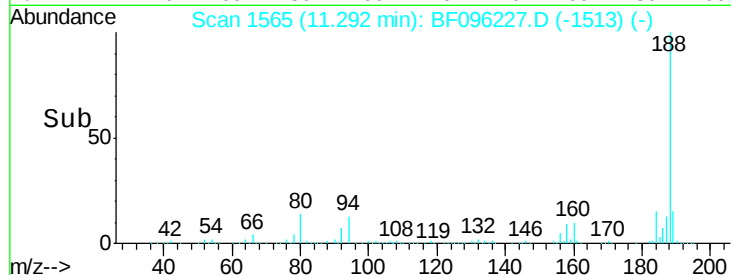
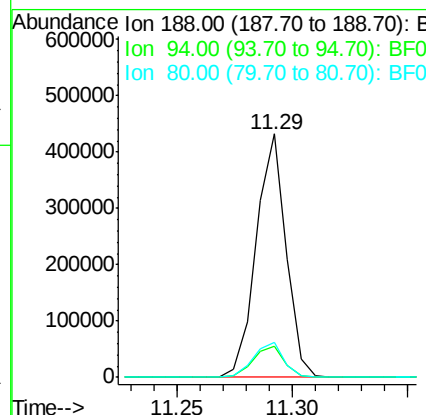
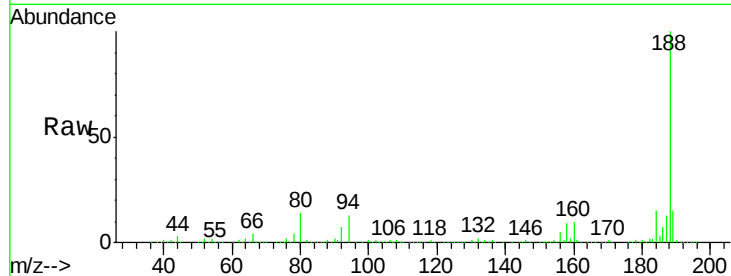
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.29 min Scan# 1565
Delta R.T. 0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampled :
OB-3

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	390905		
94	12.7		9.4	14.2
80	14.4		10.2	15.2

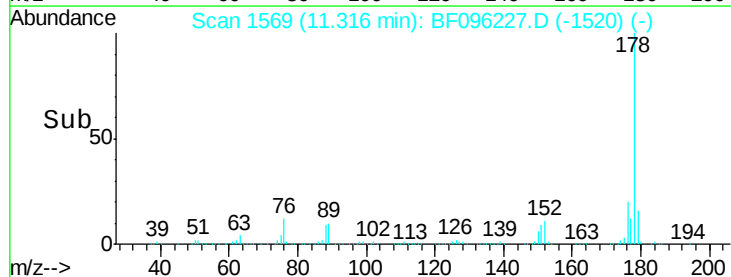
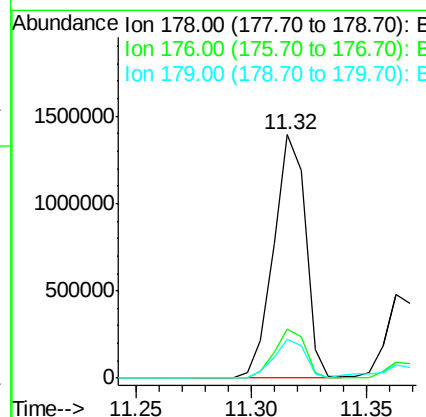
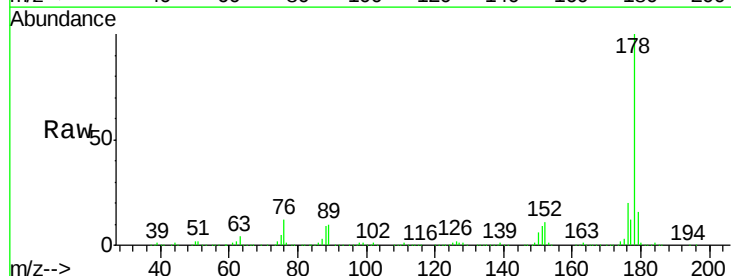
Manual Integrations
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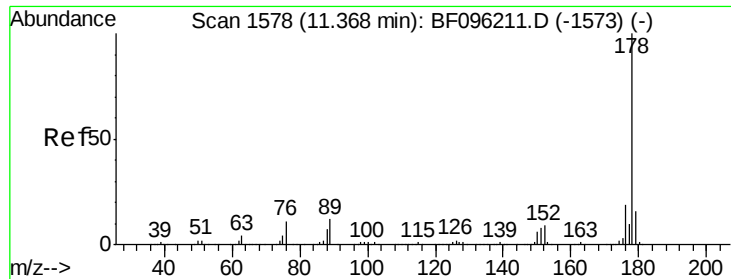
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#70
Phenanthrene
Concen: 72.908 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1335995		
176	20.2		16.2	24.4
179	15.7		12.6	19.0





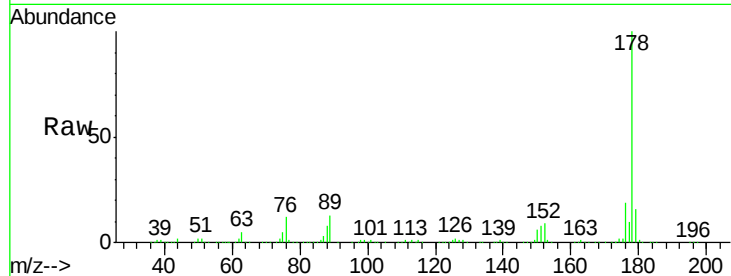
#71
 Anthracene
 Concen: 19.477 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Instrument :
 BNA_F
 ClientSampleId :
 OB-3

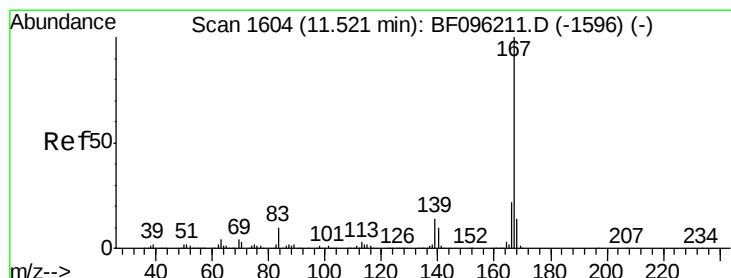
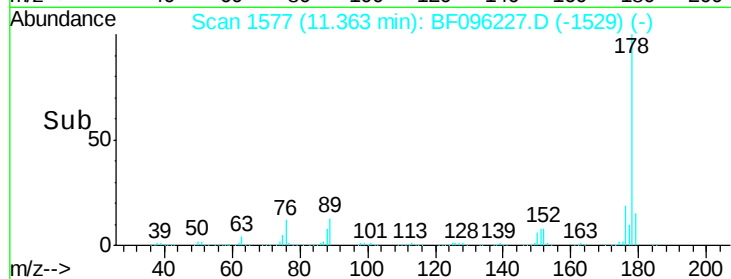
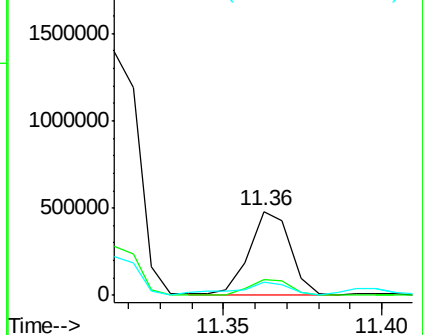
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.5	12.7	19.1

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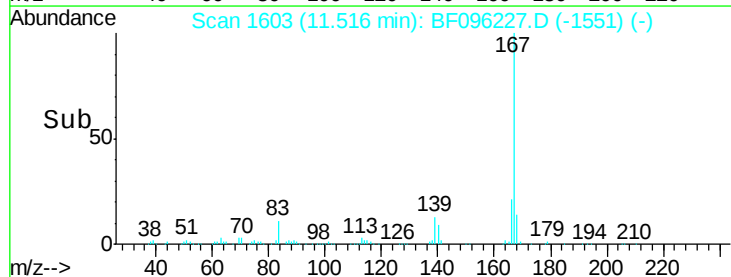
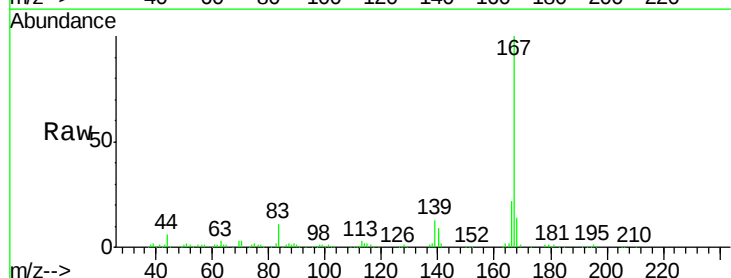
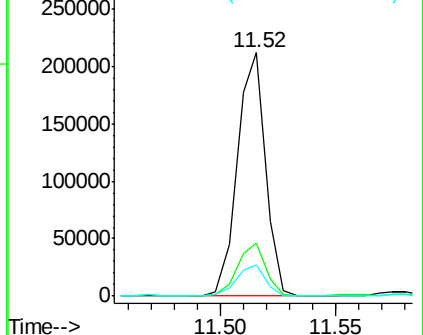
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

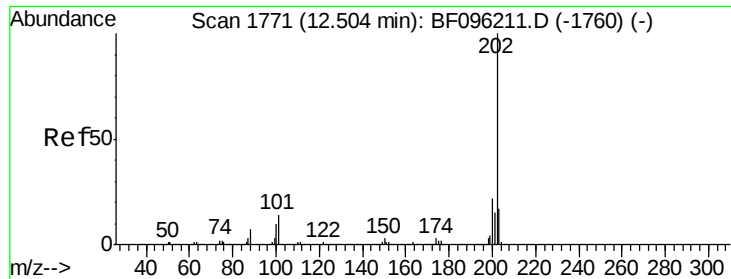


#72
 Carbazole
 Concen: 7.496 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.1	27.1
139	13.0	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: 63.626 ng

RT: 12.50 min Scan# 1771

Delta R.T. 0.01 min

Lab File: BF096227.D

Acq: 27 Jun 2017 20:21

Instrument :

BNA_F

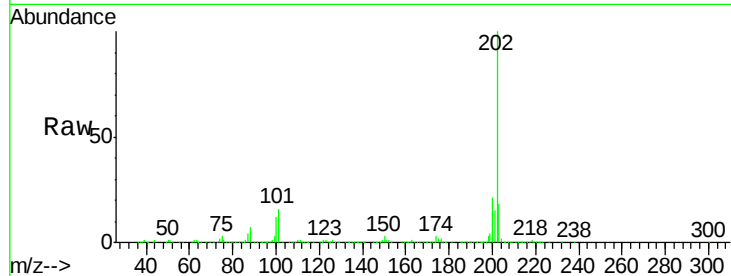
ClientSampleId :

OB-3

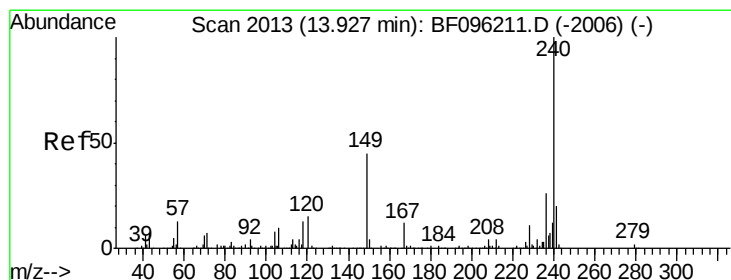
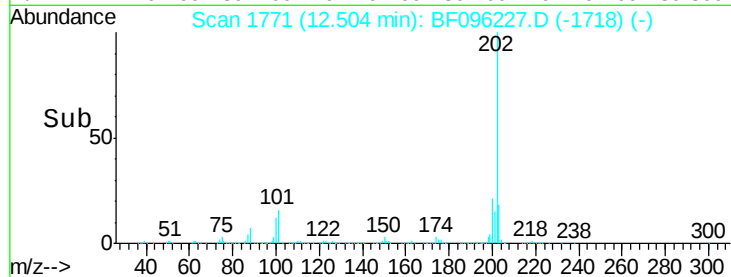
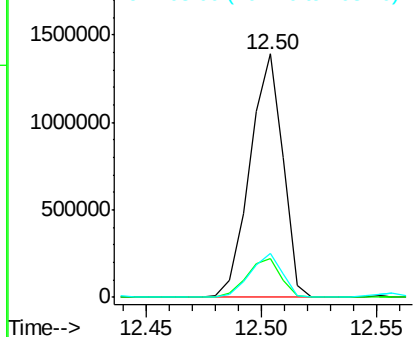
Tgt	Ion	202	Resp	1381613
Ion	Ratio	Lower	Upper	
202	100			
101	15.8	0.0	33.2	
203	17.9	0.0	38.1	

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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: 20.000 ng

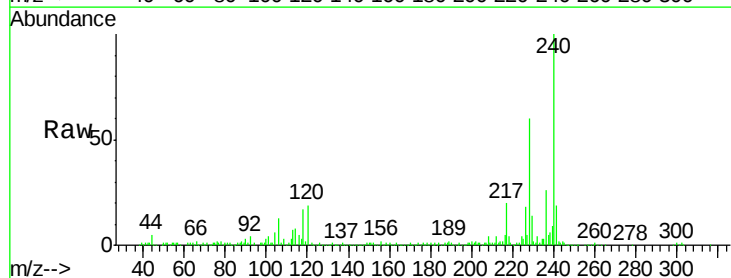
RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

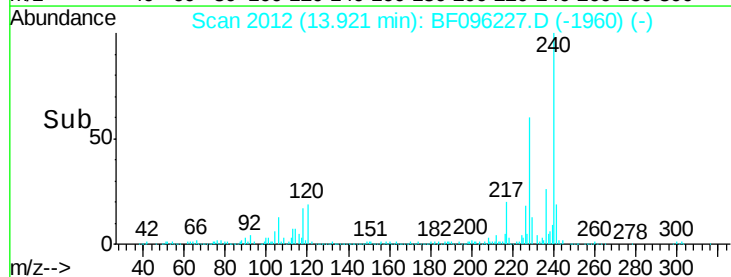
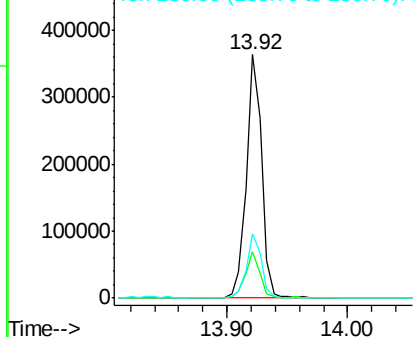
Lab File: BF096227.D

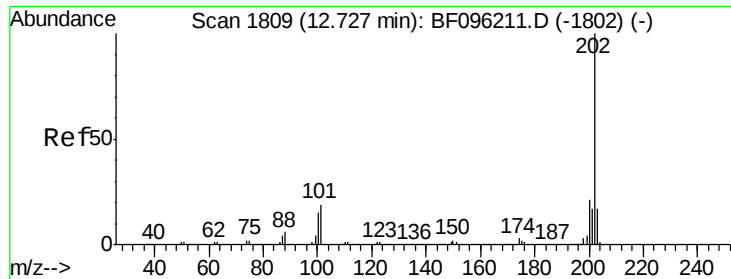
Acq: 27 Jun 2017 20:21

Tgt	Ion	240	Resp	322165
Ion	Ratio	Lower	Upper	
240	100			
120	19.0	5.8	8.8#	
236	26.3	20.5	30.7	



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





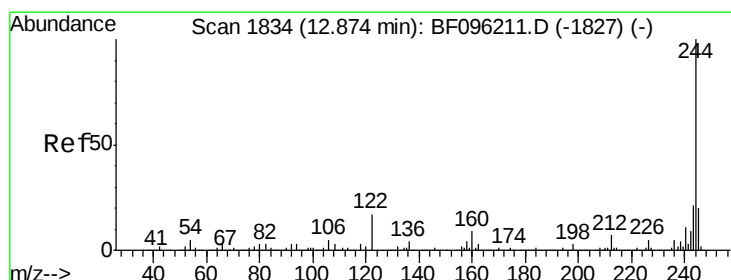
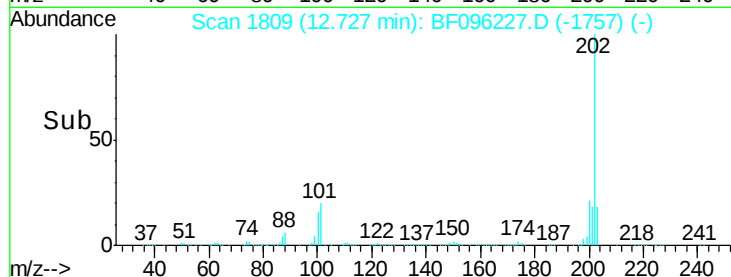
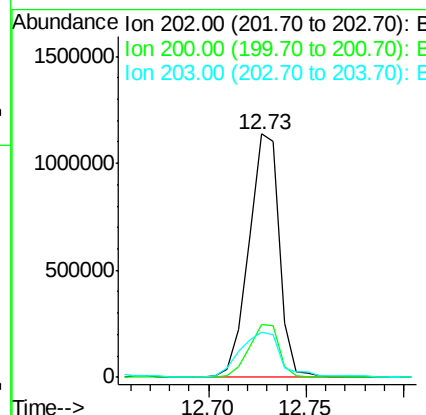
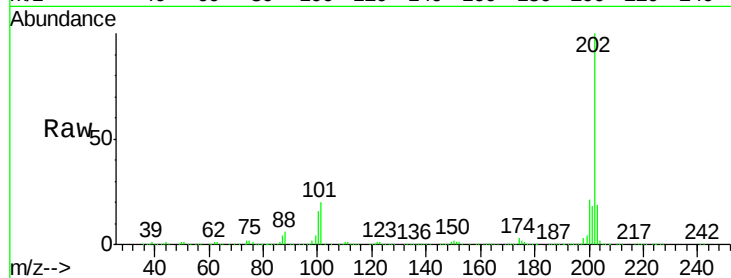
#77
 Pyrene
 Concen: 46.268 ng
 RT: 12.73 min Scan# 1809
 Delta R.T. 0.01 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Instrument :
 BNA_F
 ClientSampleId :
 OB-3

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.6	26.4
203	18.5	14.4	21.6

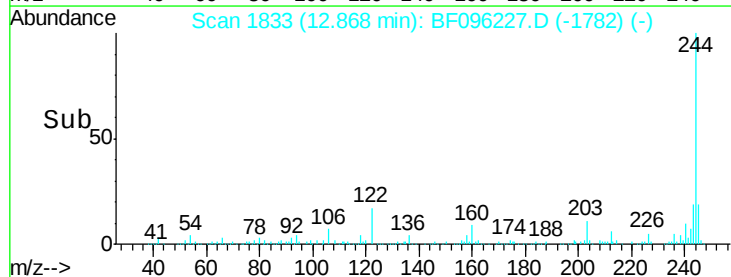
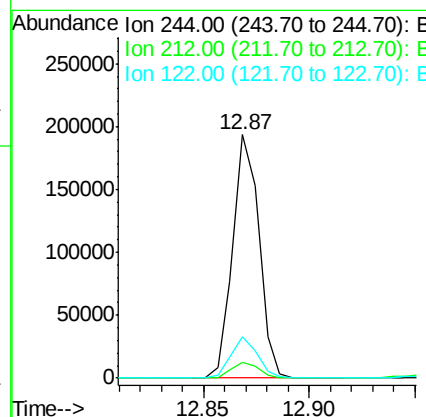
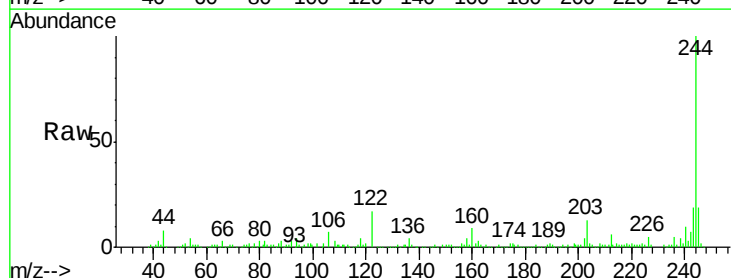
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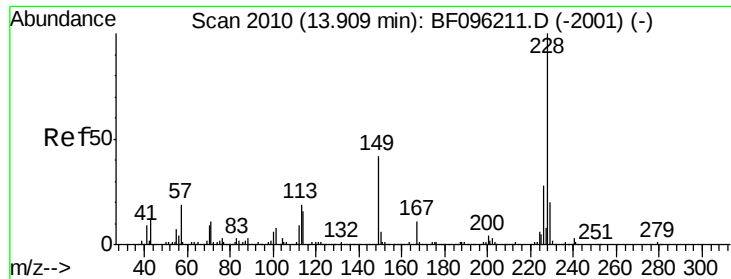
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#78
 Terphenyl-d14
 Concen: 12.801 ng
 RT: 12.87 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.0	9.0
122	16.7	10.3	15.5





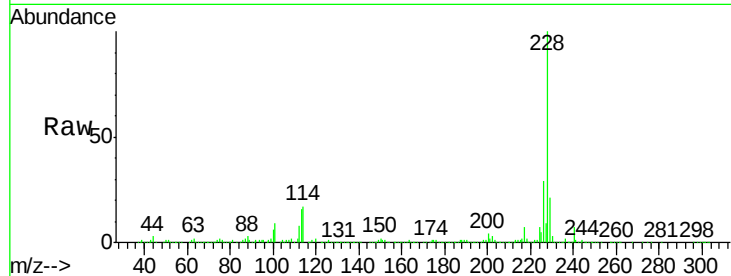
#80
Benzo(a)anthracene
Concen: 34.839 ng
RT: 13.91 min Scan# 2010
Delta R.T. 0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampleId :
OB-3

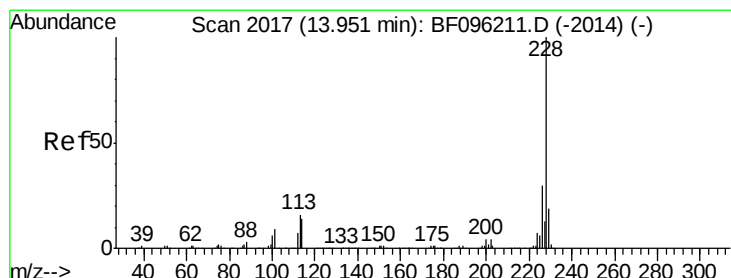
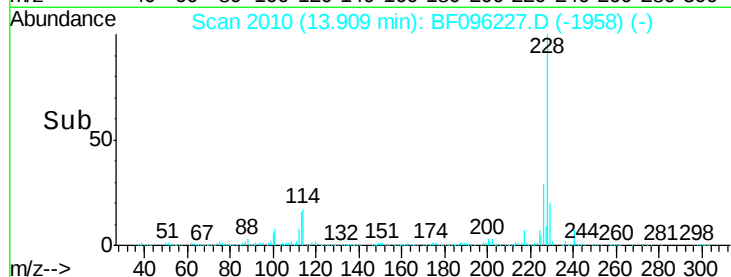
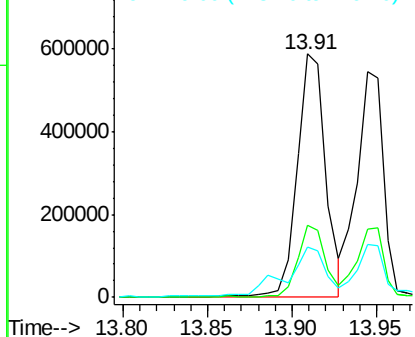
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	20.7	16.3	24.5

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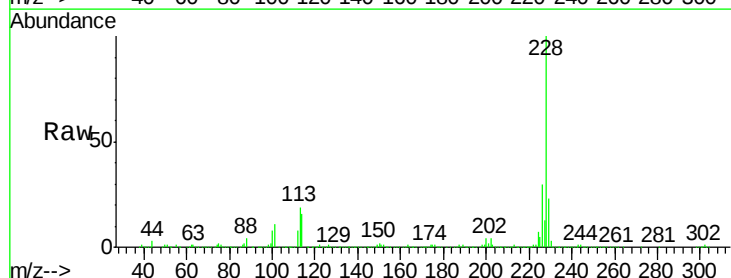


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

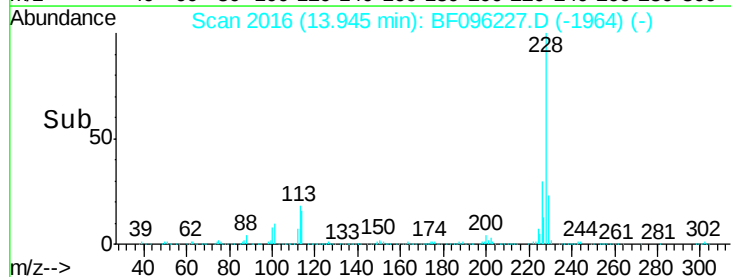
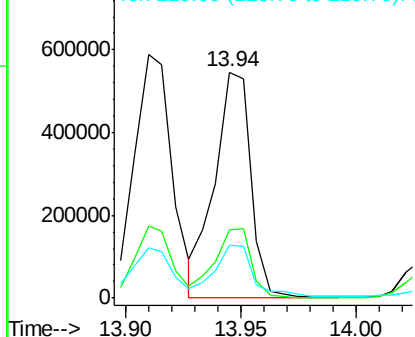


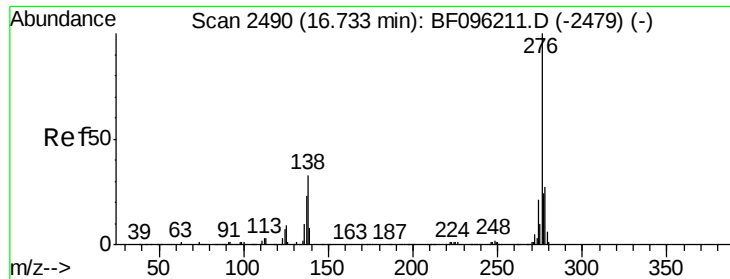
#82
Chrysene
Concen: 29.205 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.9	37.3
229	23.2	15.8	23.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





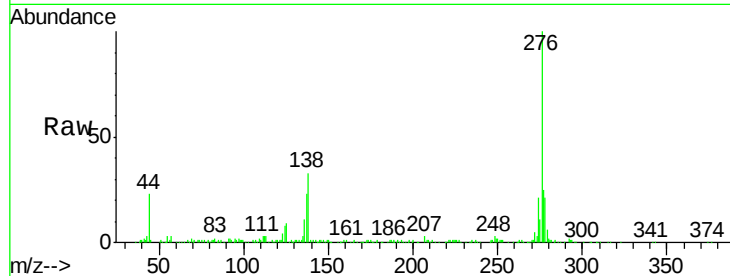
#85
Indeno(1,2,3-cd)pyrene
Concen: 13.662 ng
RT: 16.73 min Scan# 2490
Delta R.T. 0.02 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampleId :
OB-3

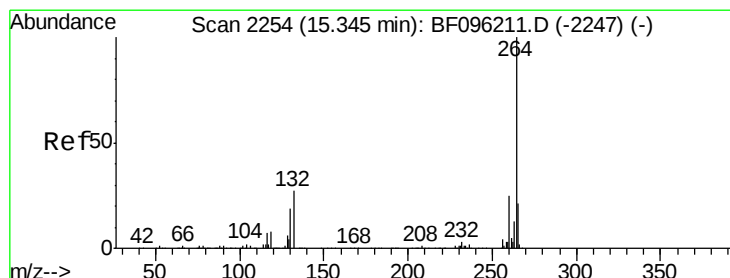
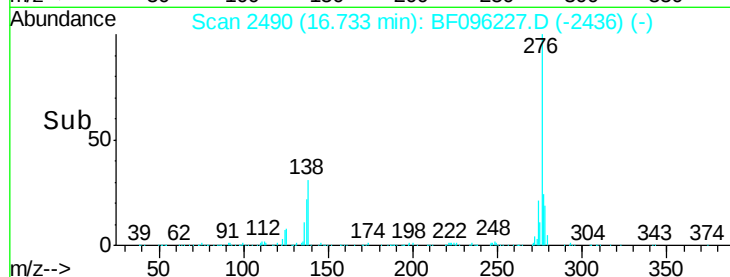
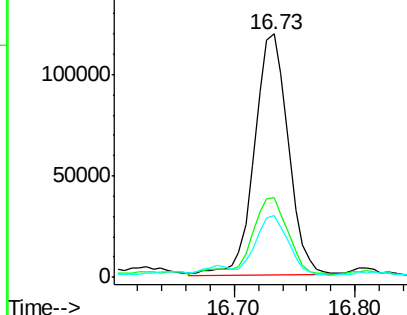
Tgt Ion	Ratio	Lower	Upper
276	100		
138	34.8	27.8	41.6
277	24.1	20.2	30.4

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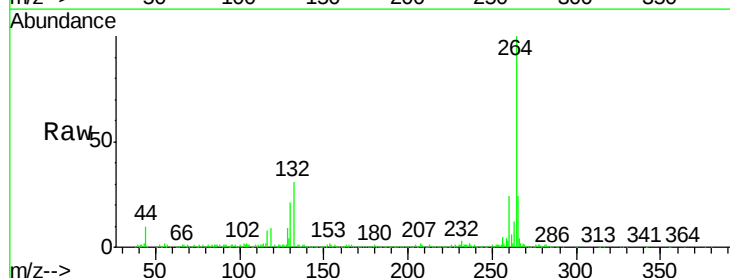


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

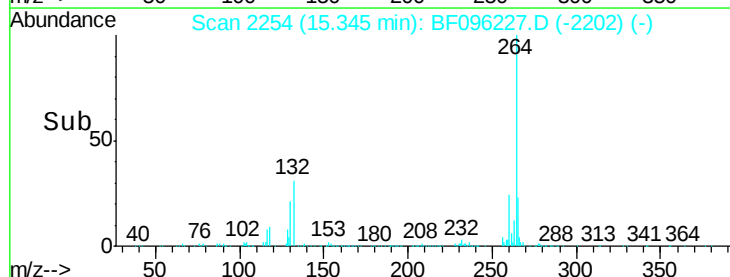
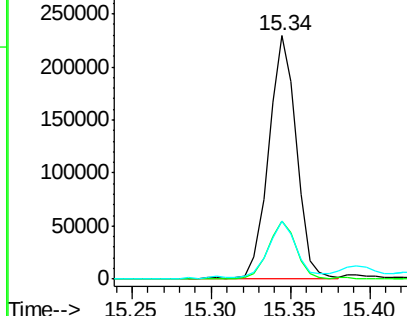


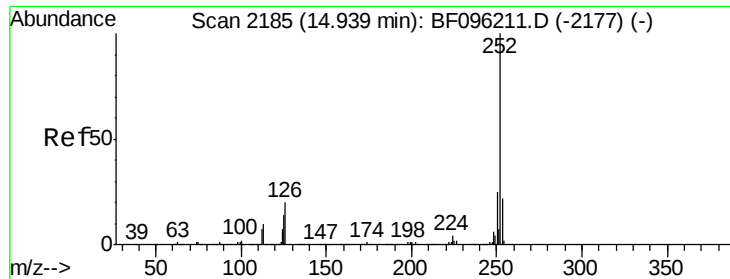
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2254
Delta R.T. 0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	23.6	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: 36.534 ng m

RT: 14.94 min Scan# 2185

Delta R.T. -0.02 min

Lab File: BF096227.D

Acq: 27 Jun 2017 20:21

Instrument :

BNA_F

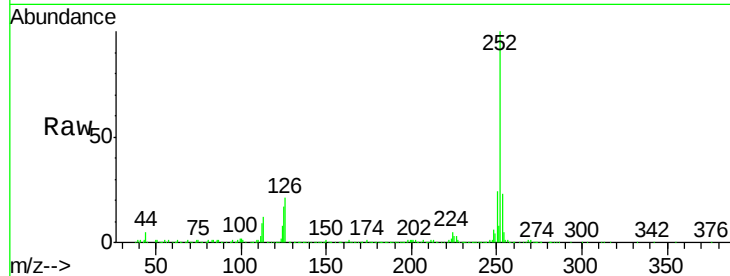
ClientSampleId :

OB-3

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	17.0	9.8	14.8

Manual Integrations
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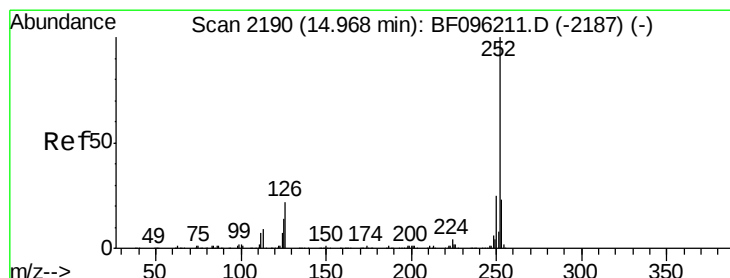
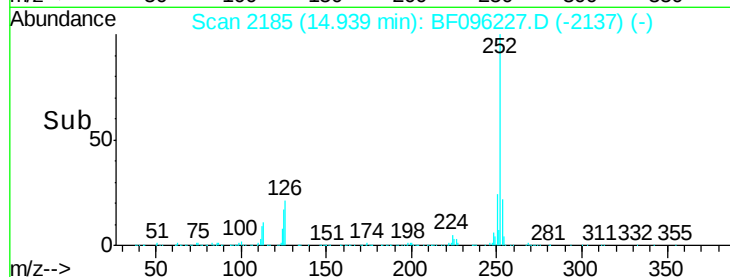
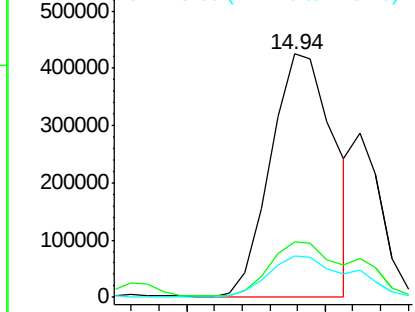
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 12.547 ng m

RT: 14.96 min Scan# 2189

Delta R.T. 0.01 min

Lab File: BF096227.D

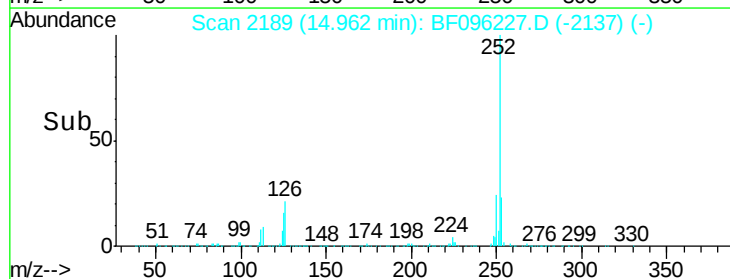
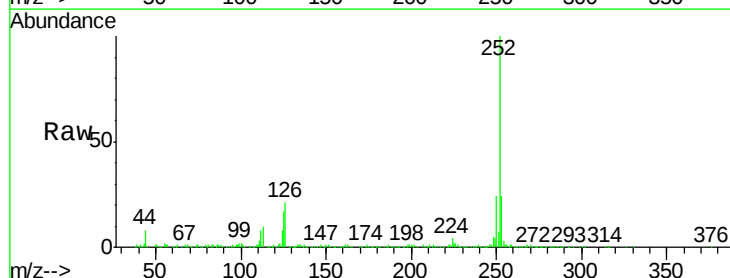
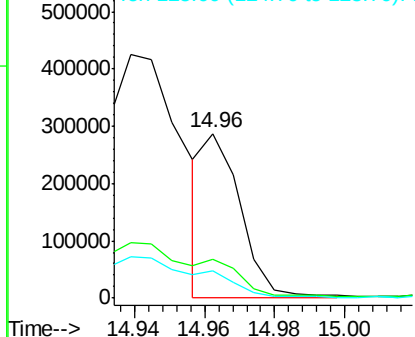
Acq: 27 Jun 2017 20:21

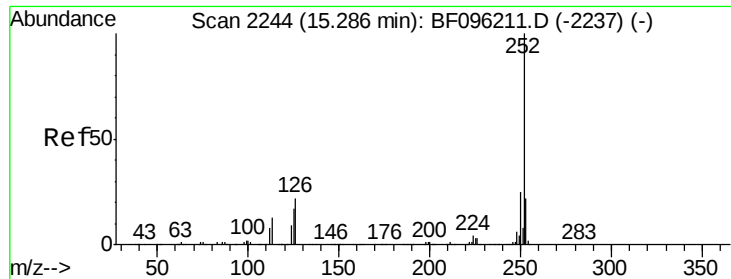
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	16.7	13.1	19.7

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





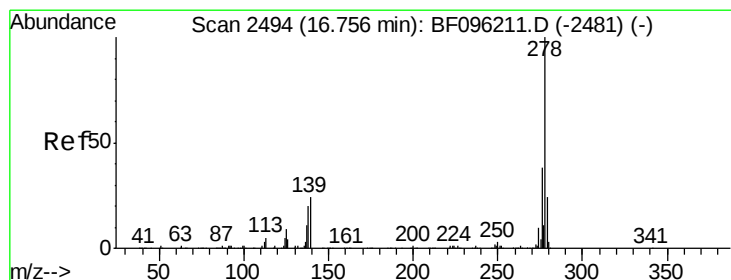
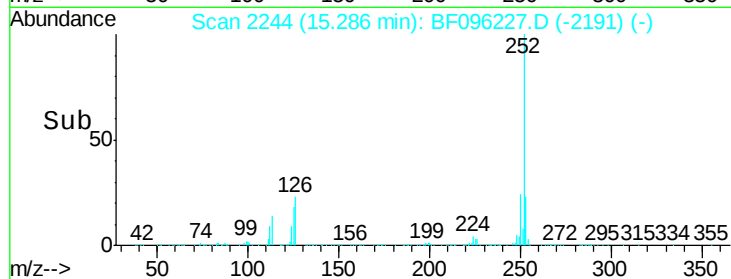
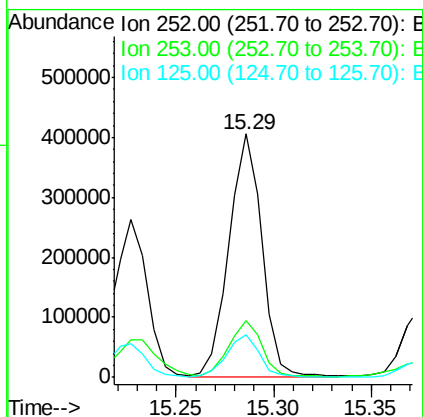
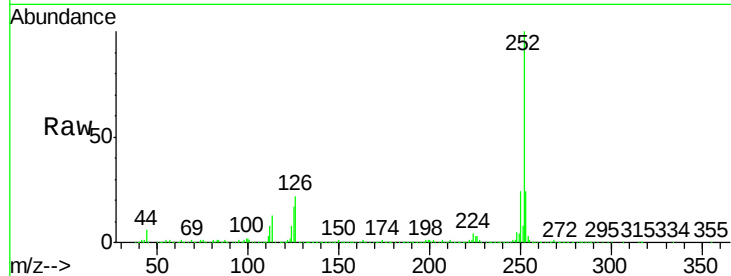
#89
Benzo(a)pyrene
Concen: 28.754 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Instrument :
BNA_F
ClientSampleId :
OB-3

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	17.3	11.0	16.4

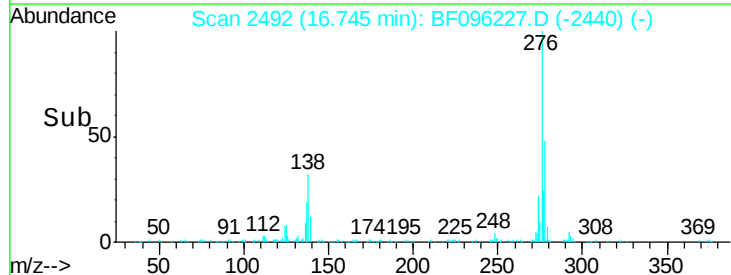
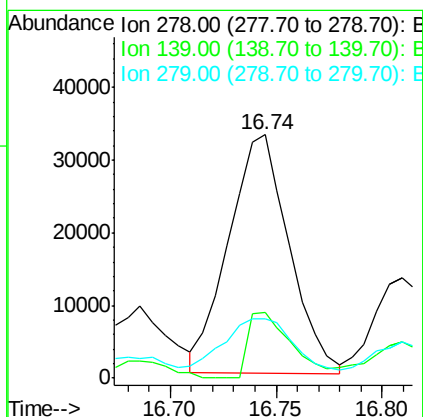
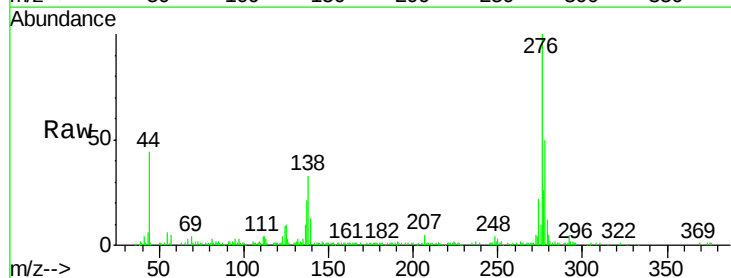
Manual Integrations
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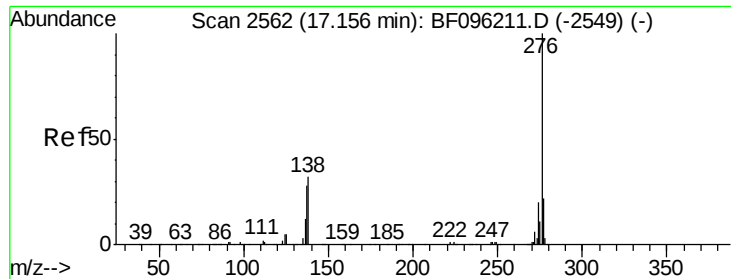
mohammad
6/30/2017 12:46:39 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.098 ng m
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF096227.D
Acq: 27 Jun 2017 20:21

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.9	16.6	24.8
279	24.5	19.3	28.9





#91
 Benzo(g,h,i)perylene
 Concen: 16.213 ng
 RT: 17.14 min Scan# 2560
 Delta R.T. 0.01 min
 Lab File: BF096227.D
 Acq: 27 Jun 2017 20:21

Instrument :
 BNA_F
 ClientSampleId :
 OB-3

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	22.2	18.6	28.0
138	33.3	25.4	38.0

Manual Integrations
 APPROVED

mohammad
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