

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
 Data File : BF096340.D
 Acq On : 30 Jun 2017 16:36
 Operator : SJ/MA
 Sample : I3883-16
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G29-1.5-3

Manual Integrations
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 7/3/2017 11:36:56 AM

Quant Time: Jun 30 18:35:24 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	6.77	152	122292	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	473008	20.00	ng	0.00
38) Acenaphthene-d10	9.80	164	172106	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	268147	20.00	ng	0.00
75) Chrysene-d12	13.92	240	218379	20.00	ng	0.00
86) Perylene-d12	15.36	264	145133	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	40921	4.82	ng	0.00
7) Phenol-d6	6.40	99	515261	50.13	ng	0.00
23) Nitrobenzene-d5	7.33	82	441059	64.55	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	1459	1.08	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	704624	74.98	ng	-0.02
78) Terphenyl-d14	12.87	244	535469	61.18	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.07	128	84008	3.68	ng	98
37) 2-Methylnaphthalene	8.77	142	45301	3.06	ng	93
49) Dimethylphthalate	9.52	163	94426	7.67	ng	98
51) Acenaphthene	9.84	154	32222	3.01	ng	96
54) Dibenzofuran	10.01	168	40098	2.87	ng	# 96
70) Phenanthrene	11.31	178	318622	19.31	ng	98
71) Anthracene	11.36	178	79680	5.32	ng	99
72) Carbazole	11.51	167	35964	2.17	ng	99
74) Fluoranthene	12.50	202	306838	20.60	ng	97
77) Pyrene	12.73	202	286039	15.94	ng	99
80) Benzo(a)anthracene	13.91	228	103209	7.75	ng	96
82) Chrysene	13.94	228	98087m	7.12	ng	
83) Bis(2-ethylhexyl)phthalate	13.92	149	31092	3.48	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.75	276	36876	3.23	ng	# 91
87) Benzo(b)fluoranthene	14.94	252	89522m	9.39	ng	
88) Benzo(k)fluoranthene	14.97	252	26705m	3.07	ng	
89) Benzo(a)pyrene	15.29	252	59545	7.07	ng	# 74
91) Benzo(g,h,i)perylene	17.17	276	36836	5.37	ng	# 88

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

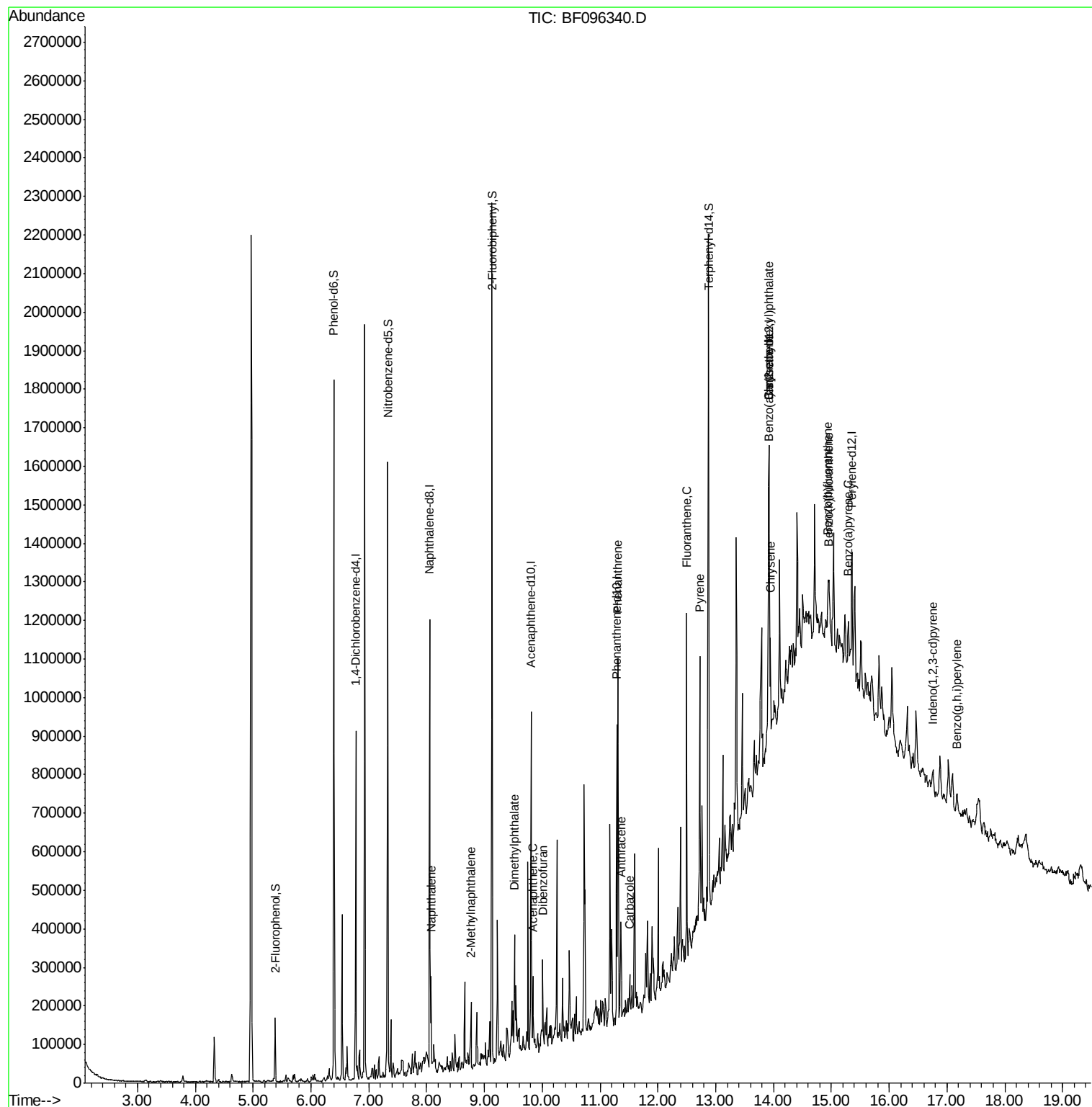
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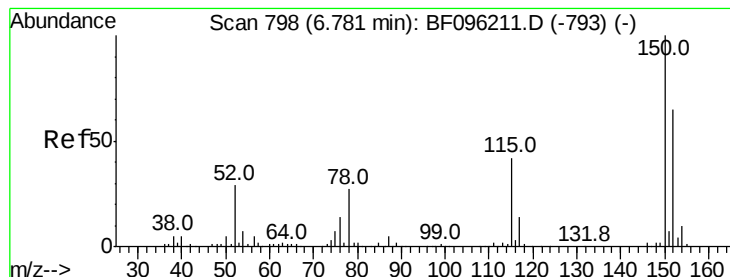
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#1

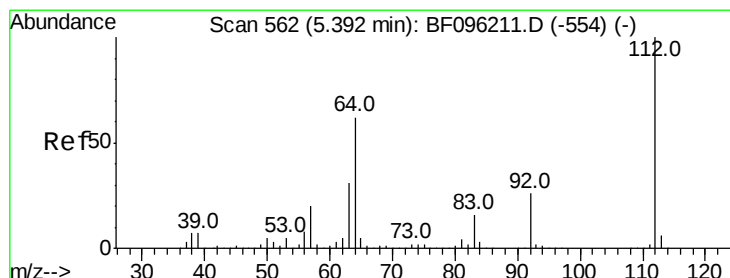
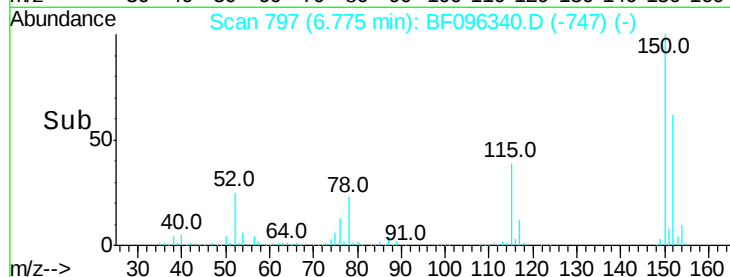
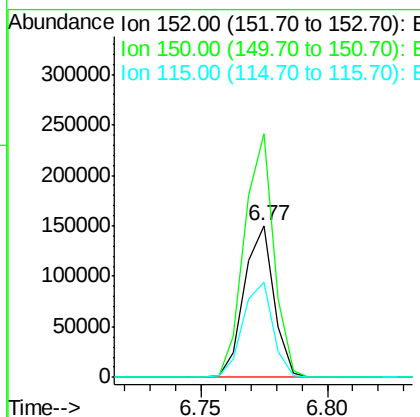
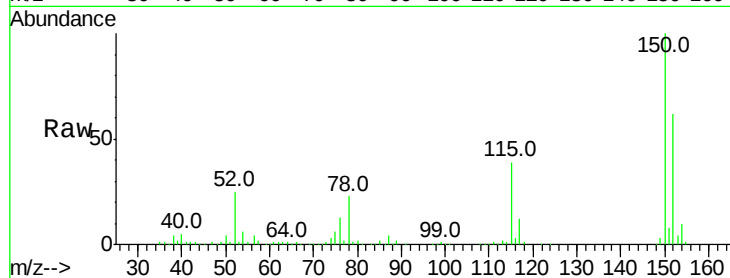
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Instrument :
BNA_F
ClientSampleId :
G29-1.5-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.5	126.2	189.2
115	63.1	52.2	78.2

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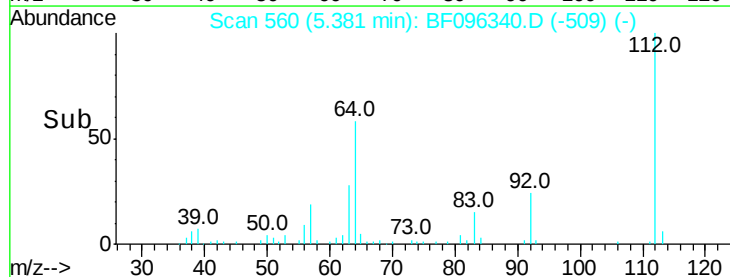
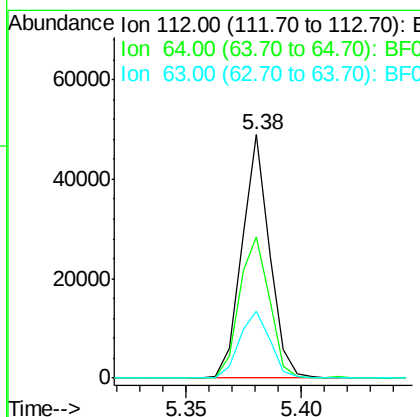
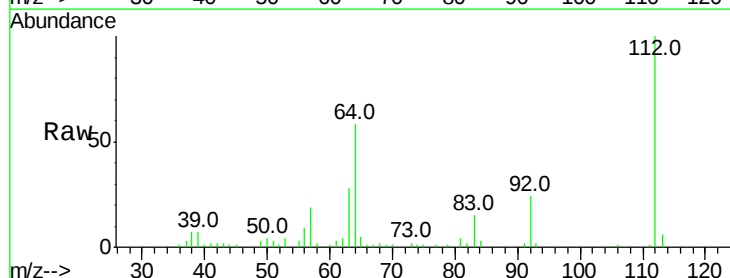
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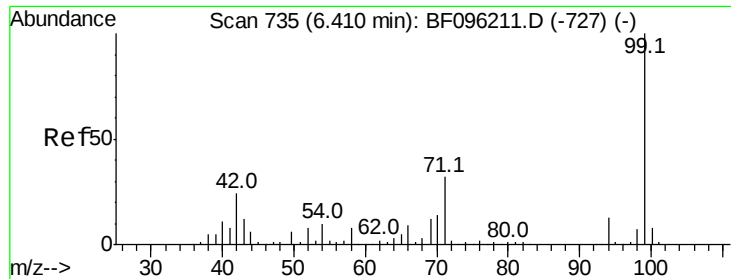


#5

2-Fluorophenol
Concen: 4.82 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	46.0	69.0
63	27.5	23.4	35.0





#7

Phenol-d6

Concen: 50.13 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Instrument :

BNA_F

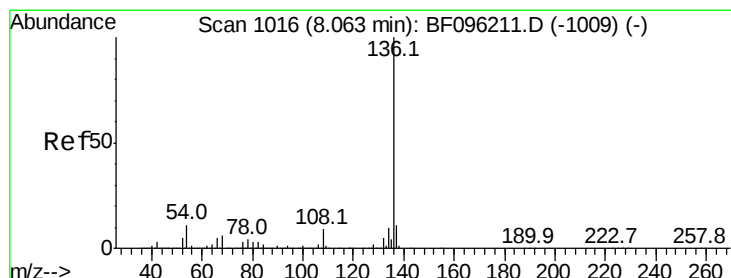
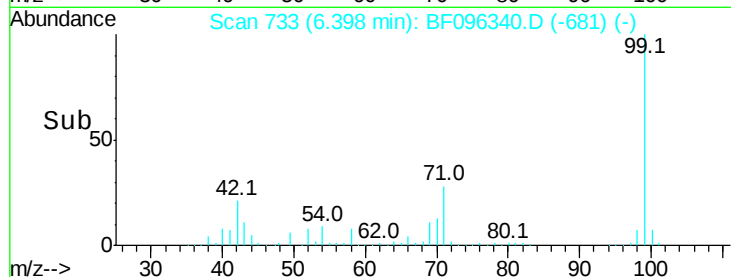
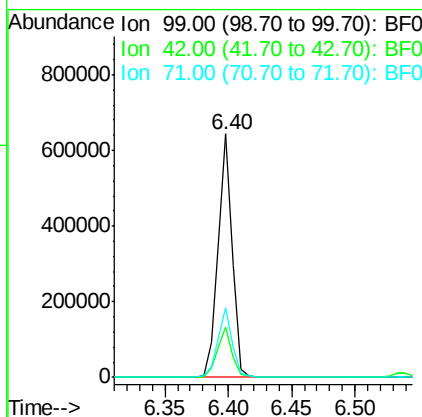
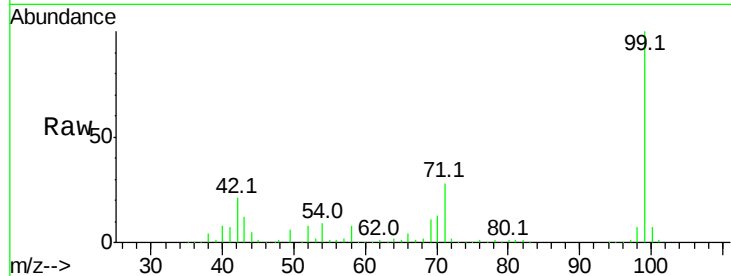
ClientSampleId :

G29-1.5-3

Tot Ion:	99	Resp:	515261
Ion Ratio	Lower	Upper	
99	100		
42	20.6	13.5	20.3#
71	28.4	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

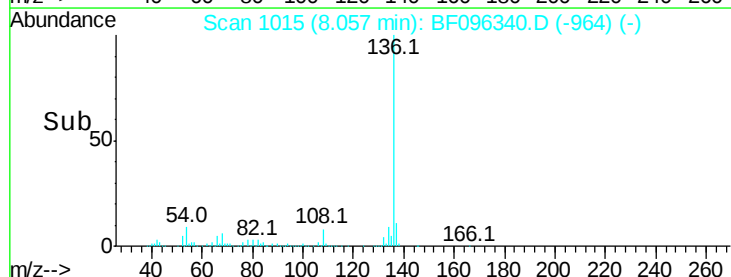
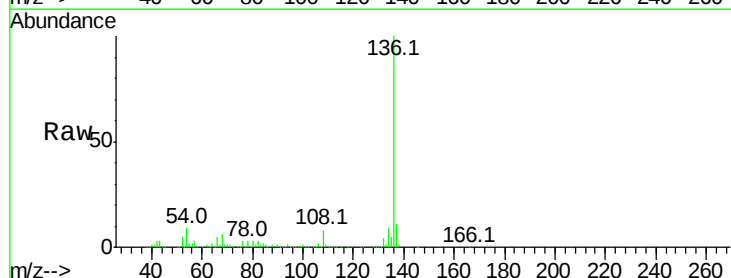
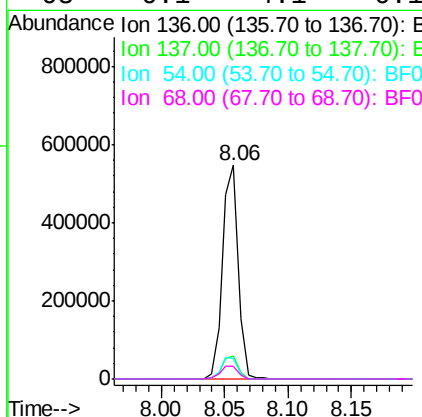
RT: 8.06 min Scan# 1015

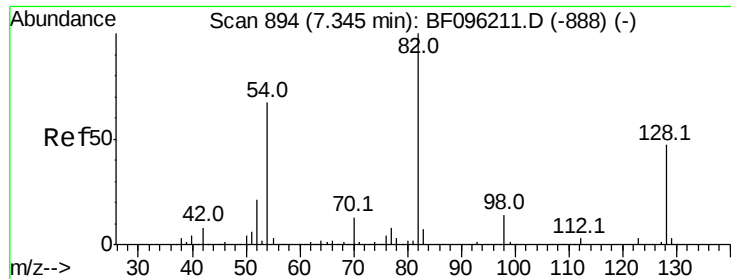
Delta R.T. -0.00 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Tgt Ion:	136	Resp:	473008
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	9.5	4.9	7.3#
68	6.1	4.1	6.1





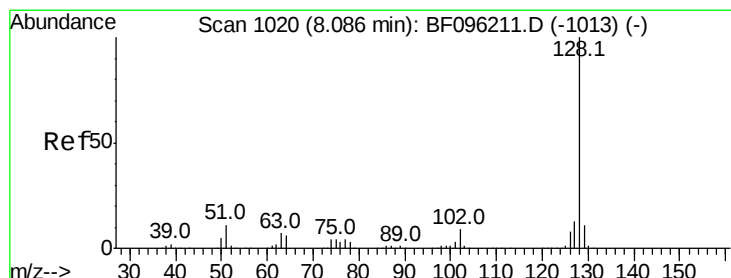
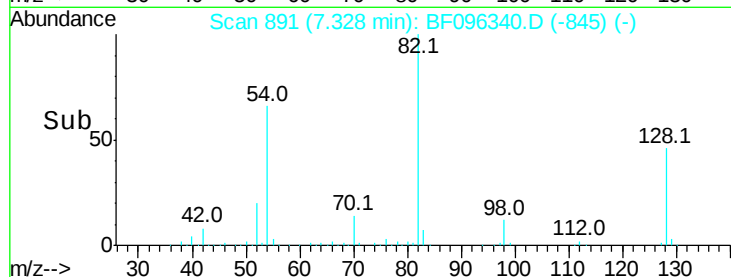
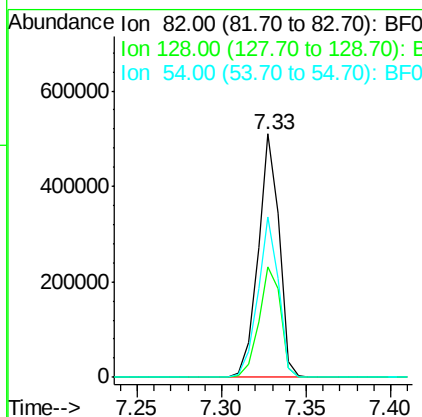
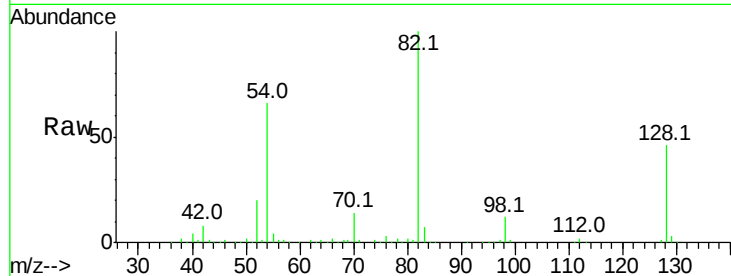
#23
 Nitrobenzene-d5
 Concen: 64.55 ng
 RT: 7.33 min Scan# 891
 Delta R.T. -0.03 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Instrument :
 BNA_F
 ClientSampleId :
 G29-1.5-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.0	51.0
54	65.6	42.2	63.2

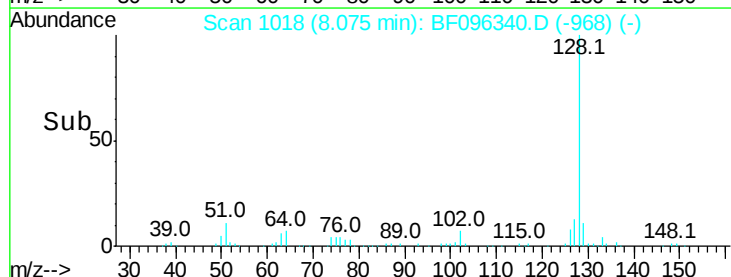
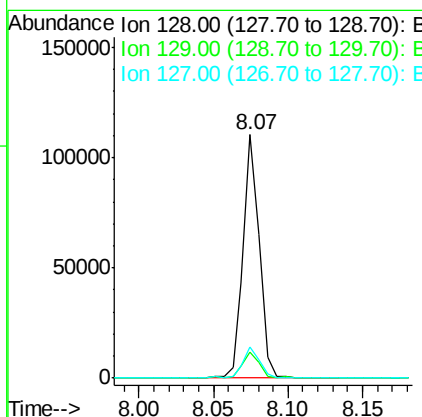
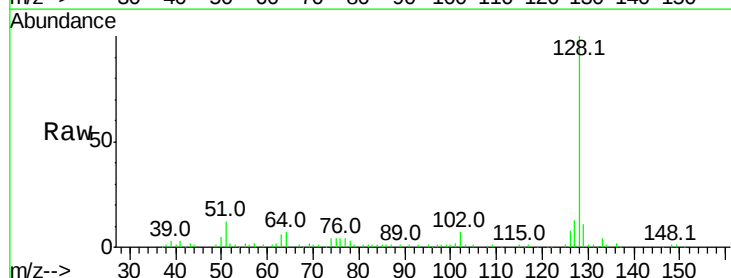
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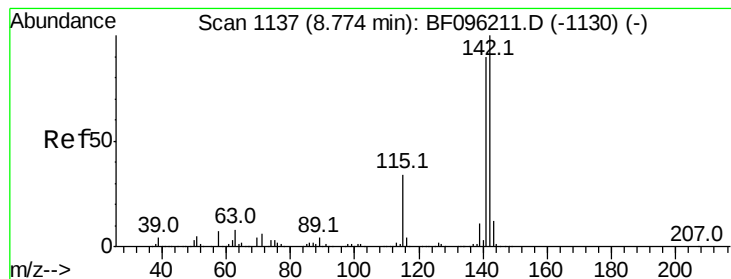
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#31
 Naphthalene
 Concen: 3.68 ng
 RT: 8.07 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.0	13.6
127	13.0	10.8	16.2





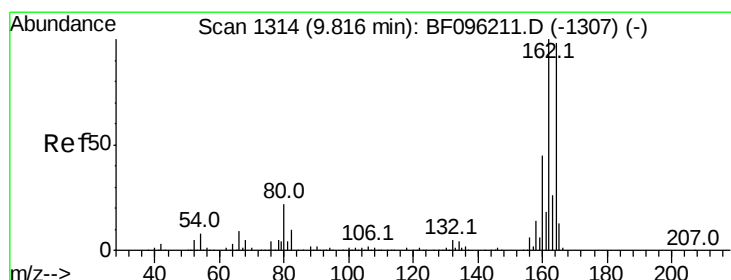
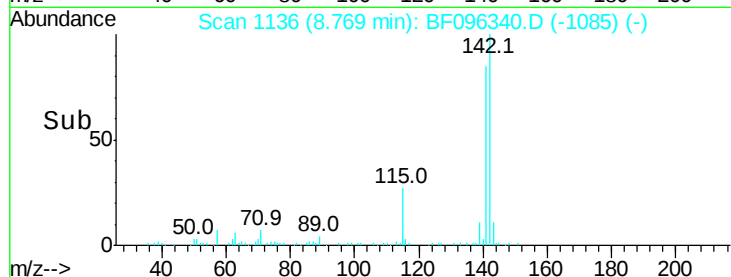
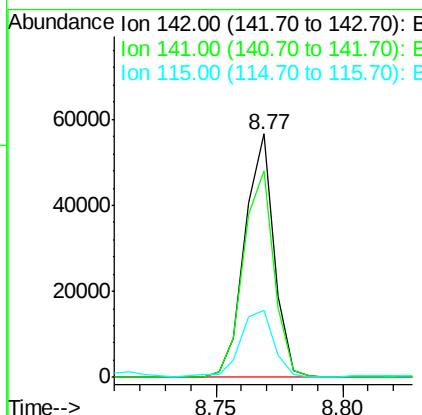
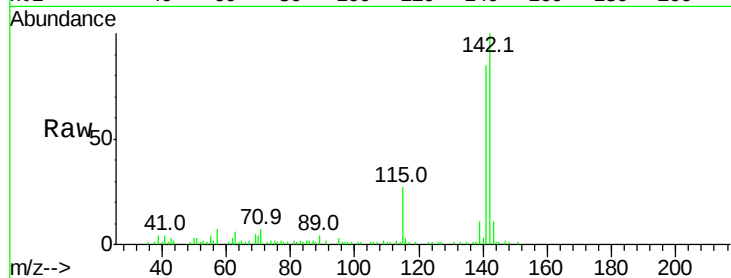
#37
 2-Methylnaphthalene
 Concen: 3.06 ng
 RT: 8.77 min Scan# 1136
 Delta R.T. -0.00 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Instrument :
 BNA_F
 ClientSampleId :
 G29-1.5-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.8	71.3	106.9
115	27.3	27.1	40.7

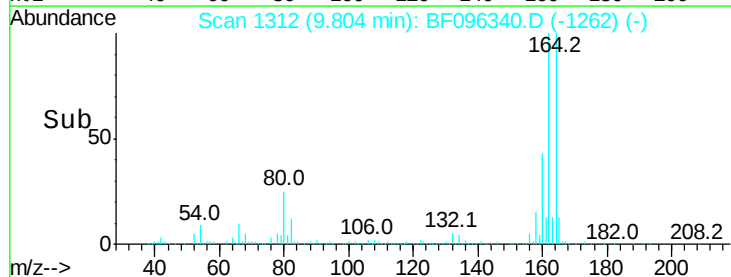
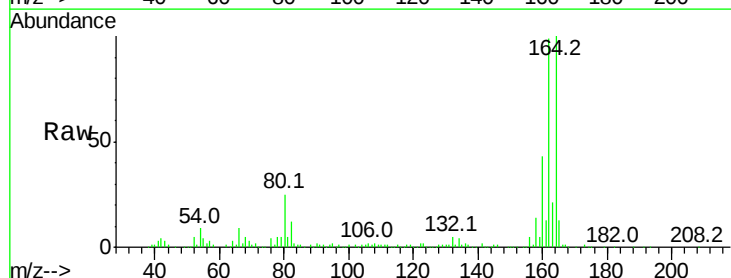
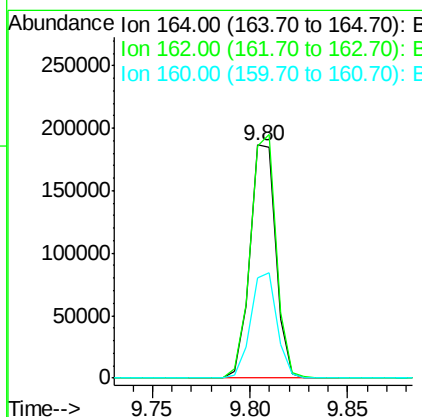
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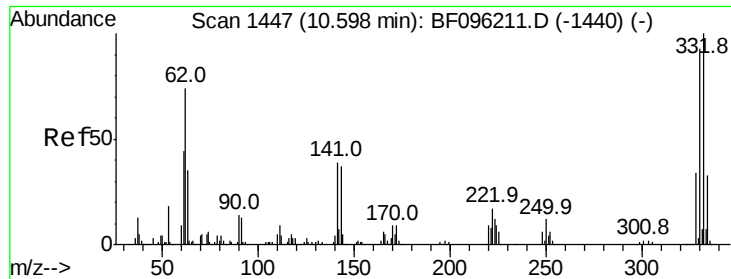
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.80 min Scan# 1312
 Delta R.T. -0.01 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.3	82.6	123.8
160	43.0	36.2	54.2





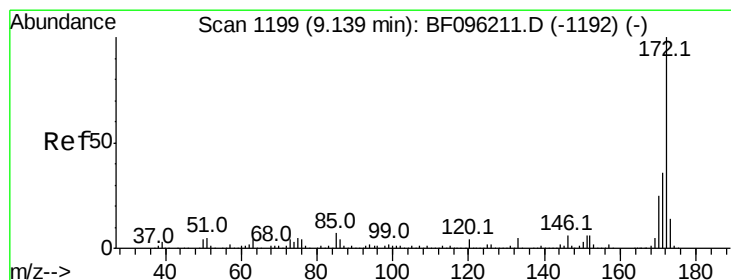
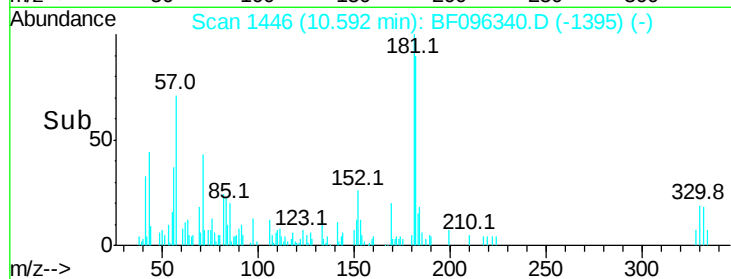
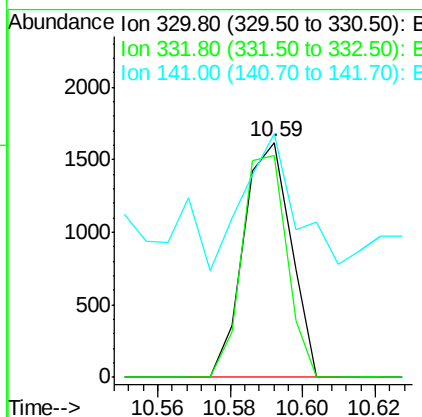
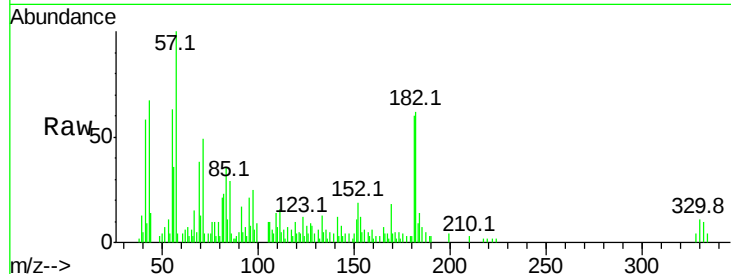
#41
 2,4,6-Tribromophenol
 Concen: 1.08 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.00 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Instrument :
 BNA_F
 ClientSampleId :
 G29-1.5-3

Tot Ion	Ratio	Lower	Upper
330	100		
332	89.9	76.6	115.0
141	63.7	31.4	47.2#

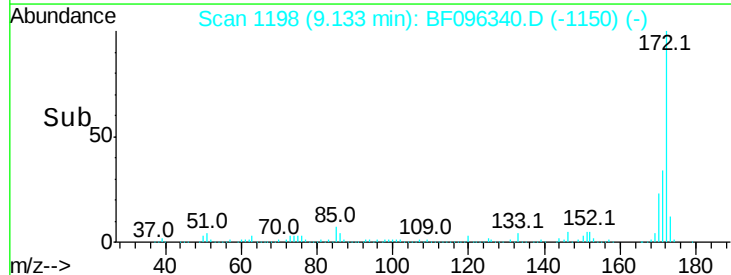
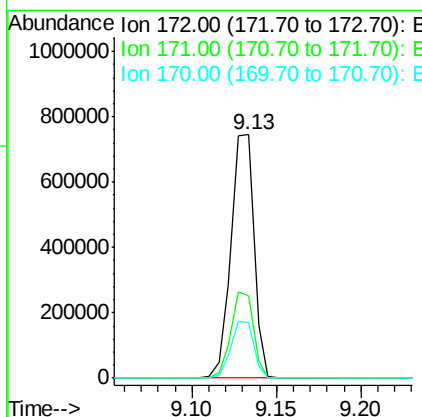
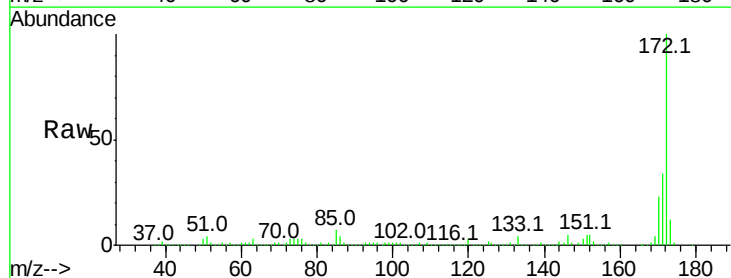
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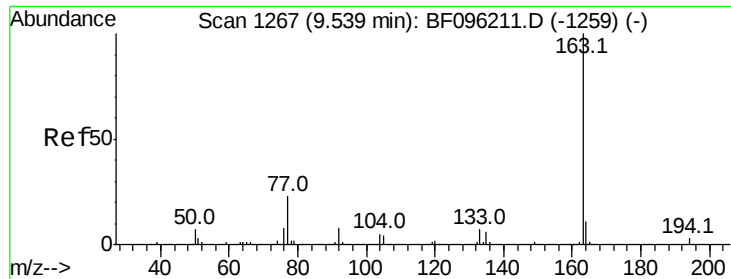
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#44
 2-Fluorobiphenyl
 Concen: 74.98 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.9	29.6	44.4
170	22.8	19.8	29.8





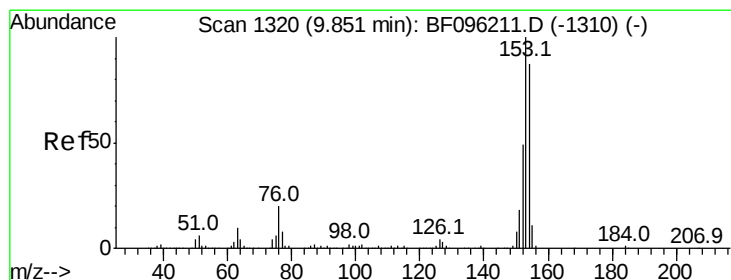
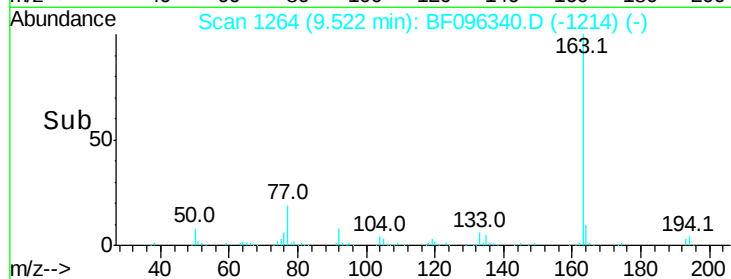
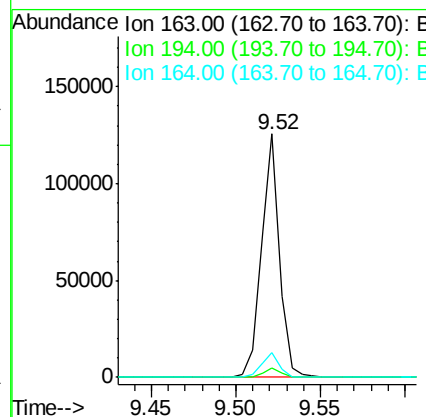
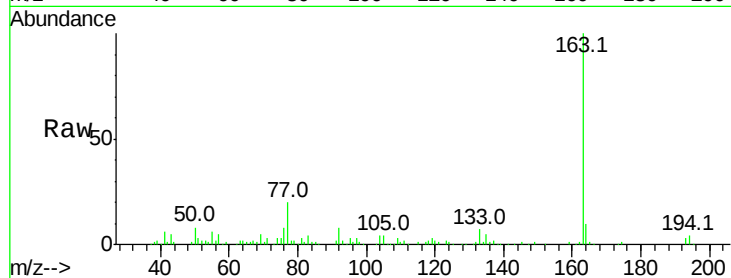
#49
Dimethylphthalate
Concen: 7.67 ng
RT: 9.52 min Scan# 1264
Delta R.T. -0.01 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Instrument :
BNA_F
ClientSampleId :
G29-1.5-3

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.6	4.0
164	9.9	8.4	12.6

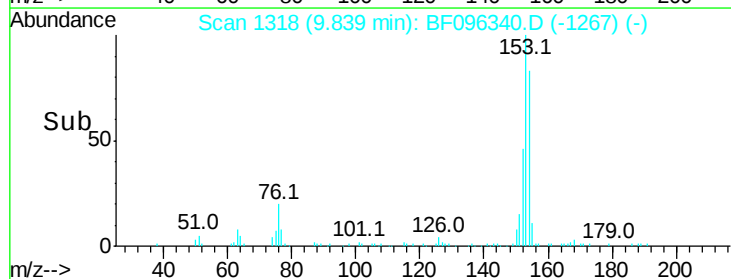
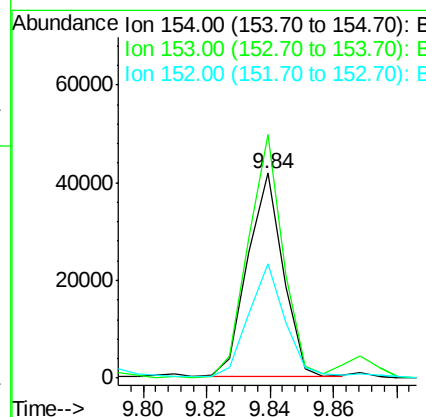
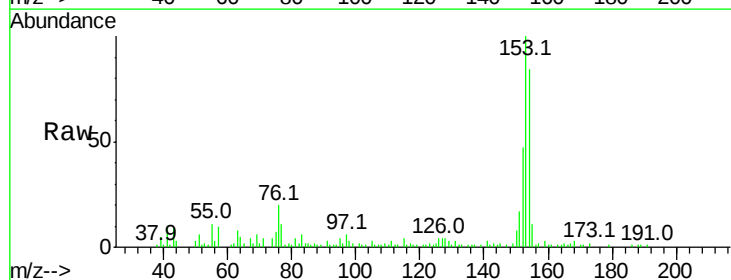
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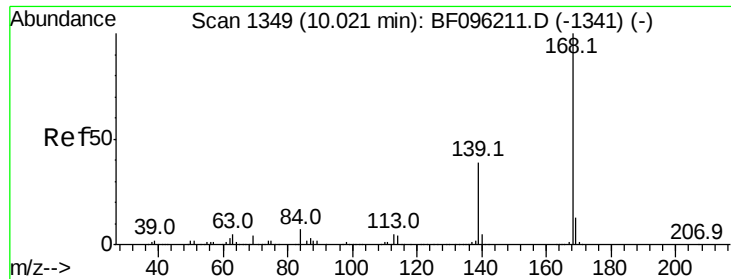
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#51
Acenaphthene
Concen: 3.01 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.7	90.5	135.7
152	55.8	43.6	65.4





#54

Dibenzofuran

Concen: 2.87 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.02 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Instrument :

BNA_F

ClientSampleId :

G29-1.5-3

Tot Ion:168 Resp: 40098

Ion Ratio Lower Upper

168 100

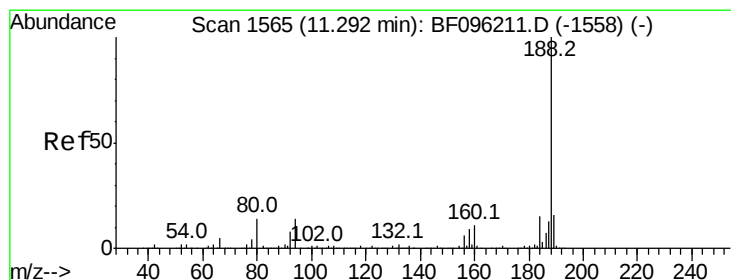
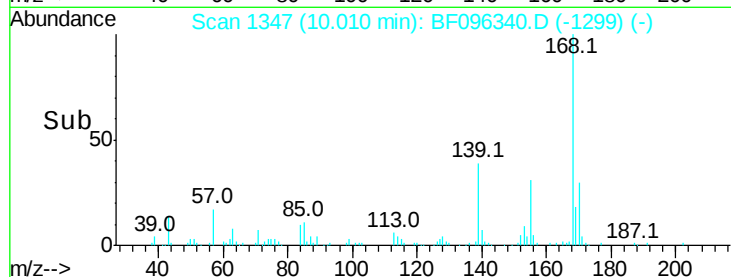
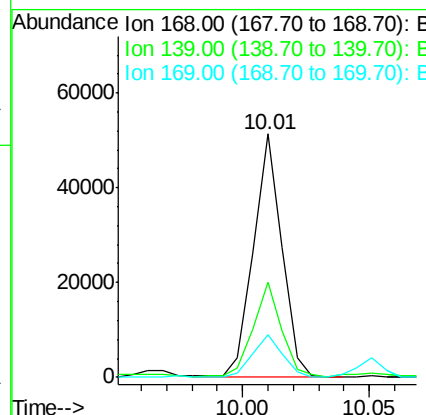
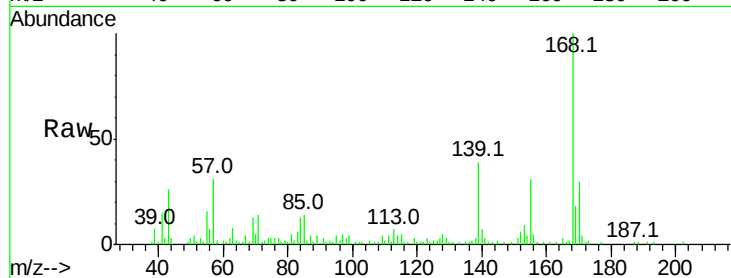
139 39.0 30.6 45.8

169 17.7 10.8 16.2#

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#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

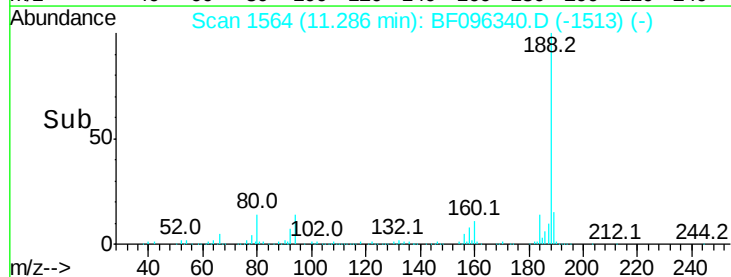
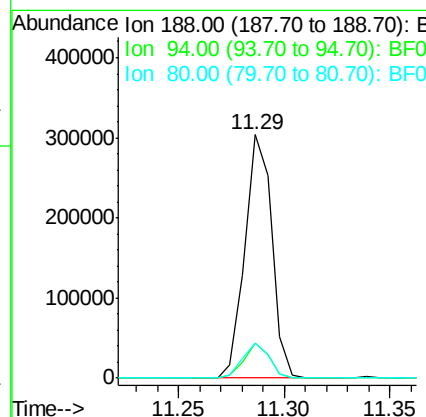
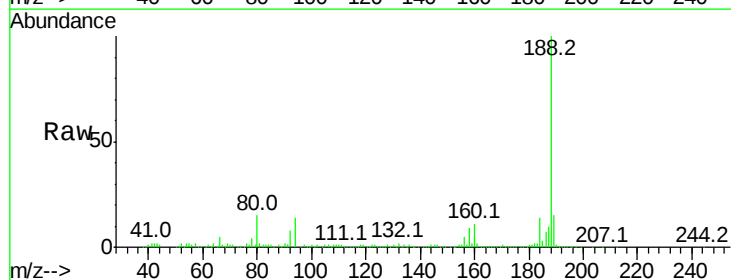
Tgt Ion:188 Resp: 268147

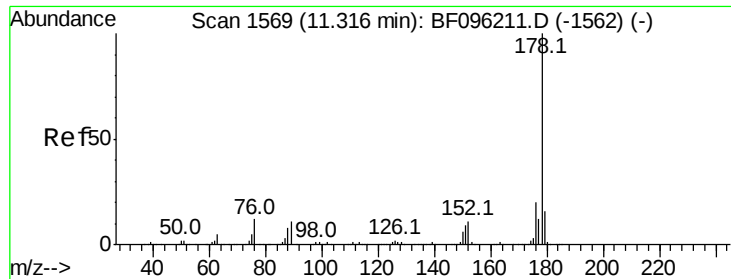
Ion Ratio Lower Upper

188 100

94 14.1 9.4 14.2

80 14.5 10.2 15.2





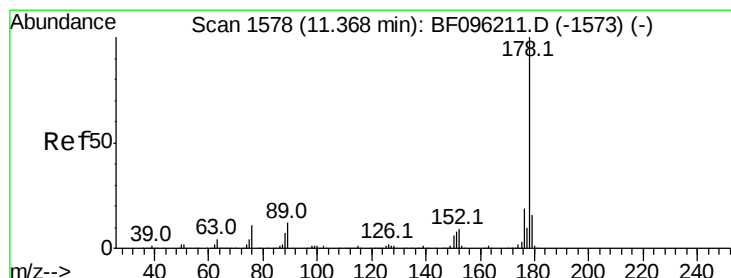
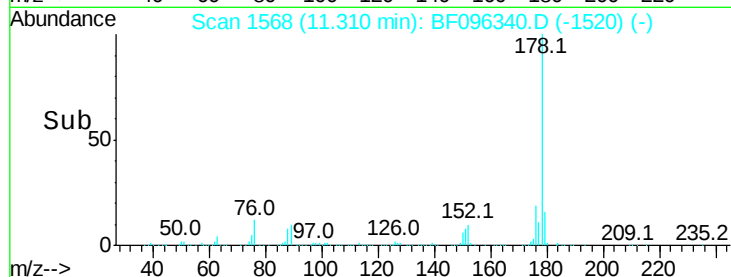
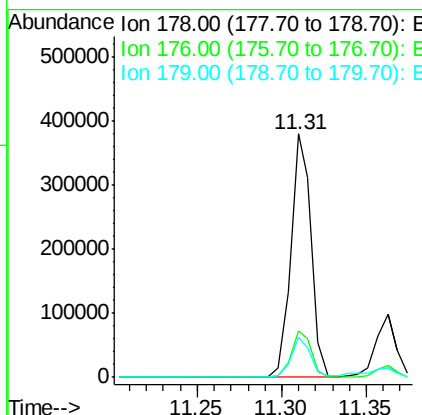
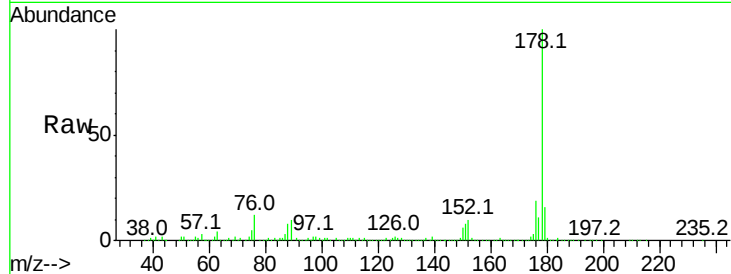
#70
Phenanthrene
Concen: 19.31 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.02 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Instrument :
BNA_F
ClientSampleId :
G29-1.5-3

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	16.3	12.6	19.0

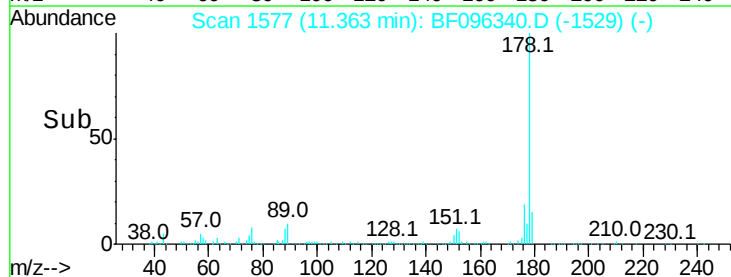
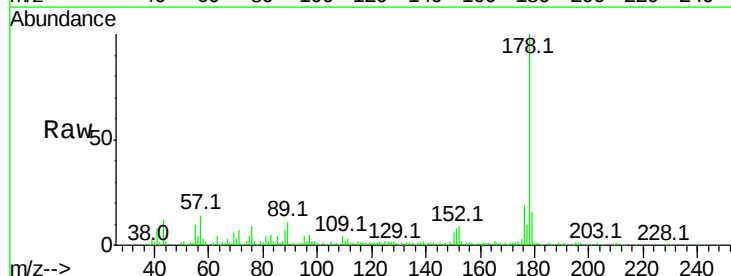
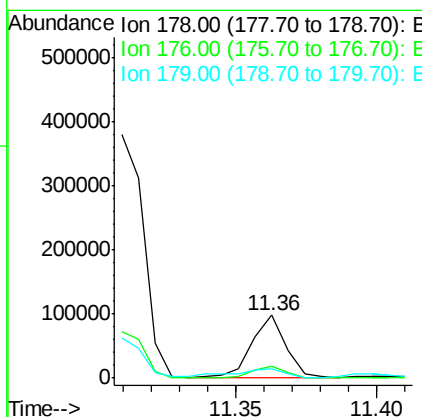
Manual Integrations
APPROVED

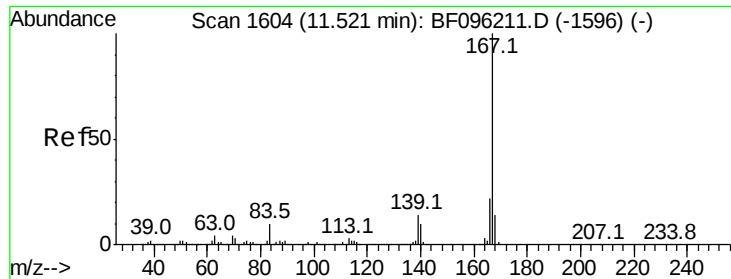
mohammad
7/3/2017 11:36:56 AM



#71
Anthracene
Concen: 5.32 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.6	12.7	19.1





#72

Carbazole

Concen: 2.17 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Instrument :

BNA_F

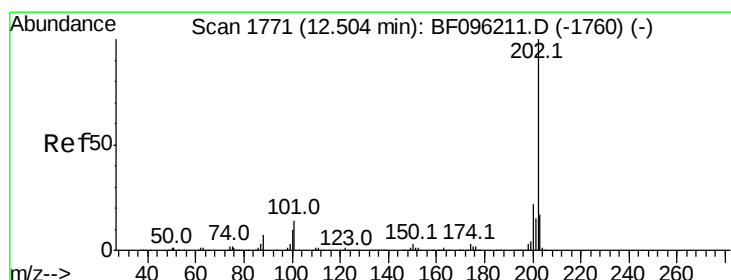
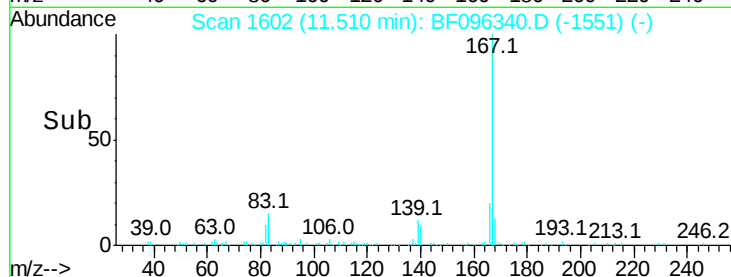
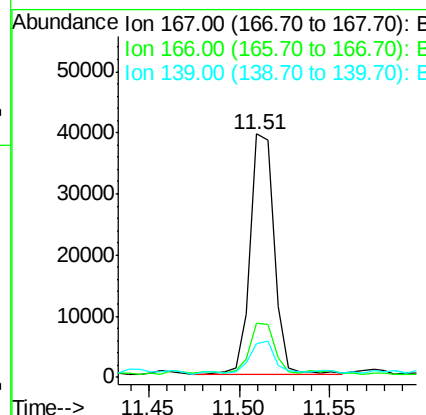
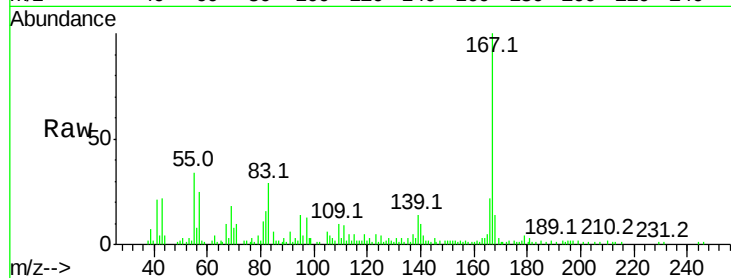
ClientSampled :

G29-1.5-3

Tot Ion:	167	Resp:	35964
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	13.8	11.7	17.5

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#74

Fluoranthene

Concen: 20.60 ng

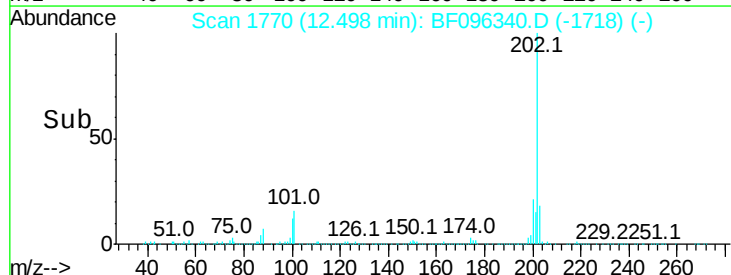
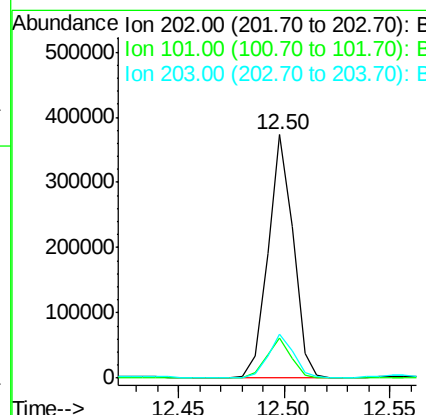
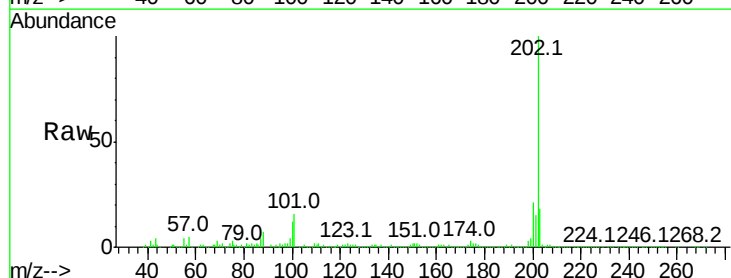
RT: 12.50 min Scan# 1770

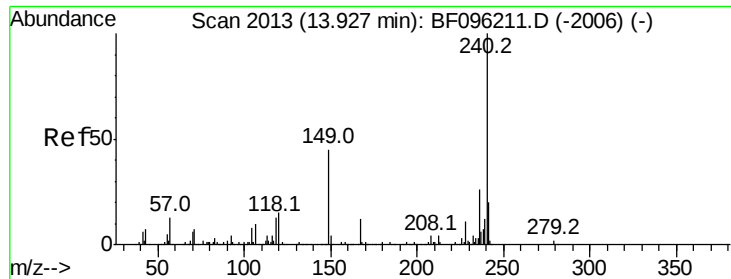
Delta R.T. 0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Tgt Ion:	202	Resp:	306838
Ion Ratio	Lower	Upper	
202	100		
101	16.3	0.0	33.2
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Instrument :

BNA_F

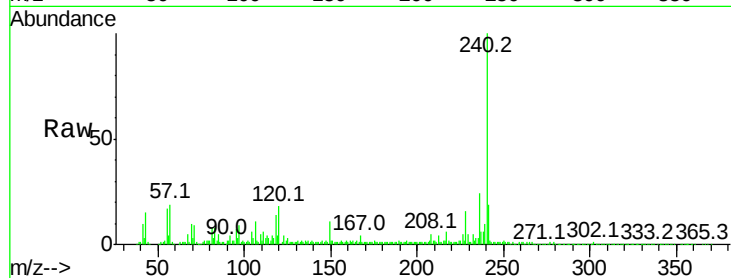
ClientSampleId :

G29-1.5-3

Tot Ion	Ratio	Lower	Upper
240	100		
120	17.8	5.8	8.8#
236	23.6	20.5	30.7

Manual Integrations
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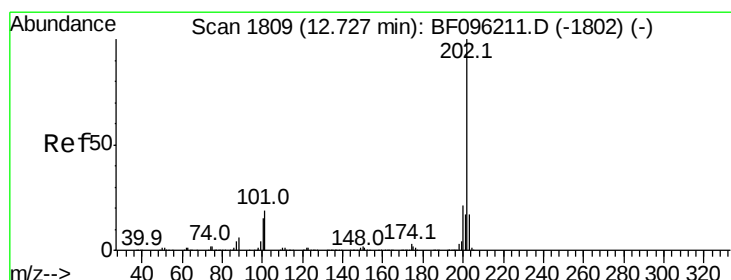
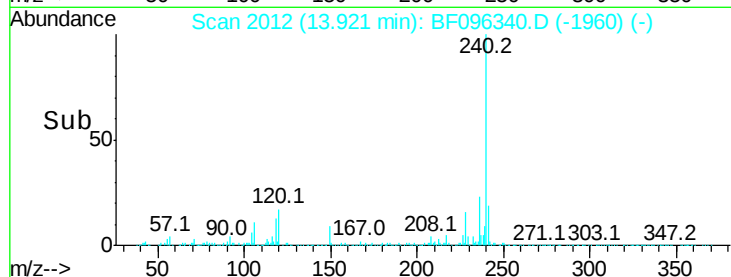
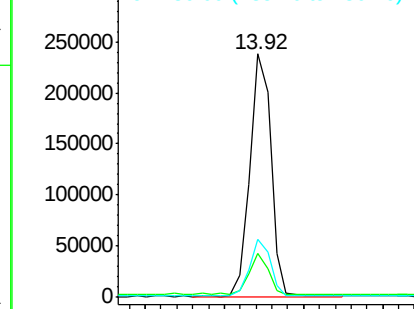
mohammad
7/3/2017 11:36:56 AM



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: 15.94 ng

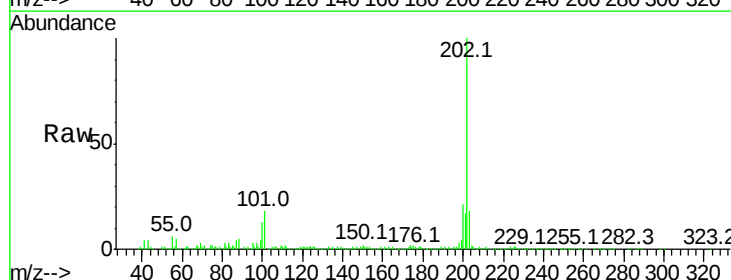
RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

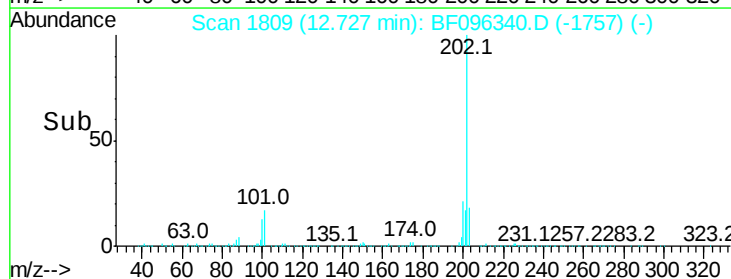
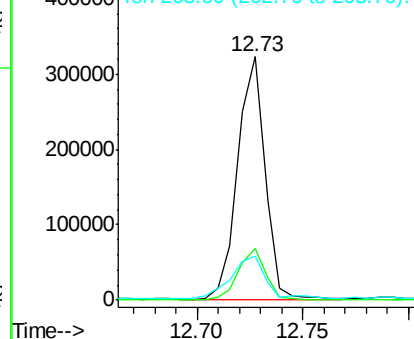
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.6	26.4
203	18.3	14.4	21.6

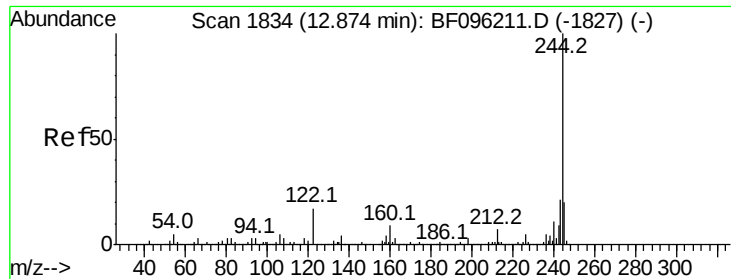


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





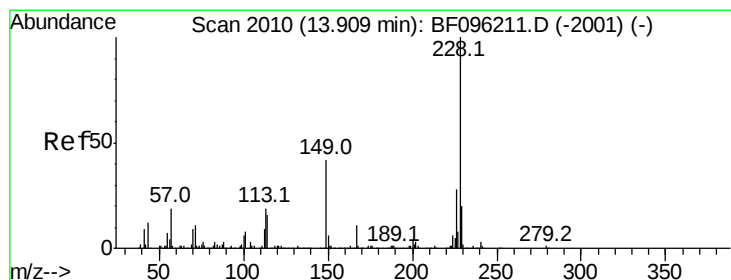
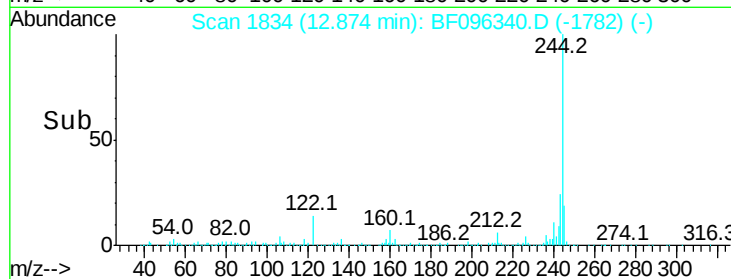
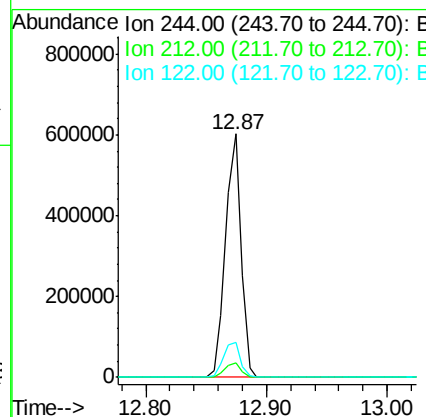
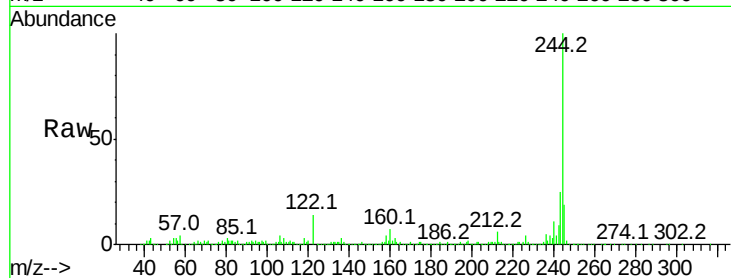
#78
 Terphenyl-d14
 Concen: 61.18 ng
 RT: 12.87 min Scan# 1834
 Delta R.T. 0.01 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Instrument :
 BNA_F
 ClientSampleId :
 G29-1.5-3

Tot Ion	Ratio	Lower	Upper
244	100		
212	5.9	6.0	9.0#
122	14.4	10.3	15.5

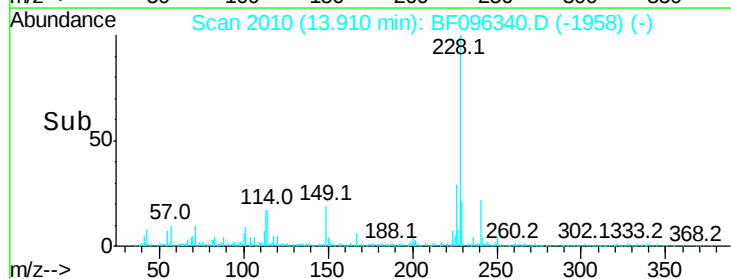
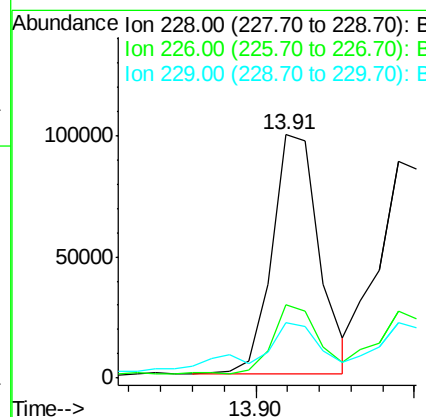
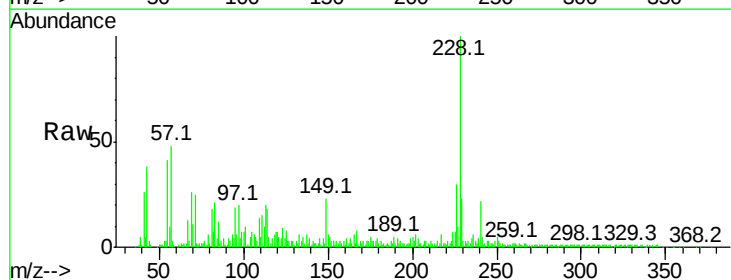
Manual Integrations
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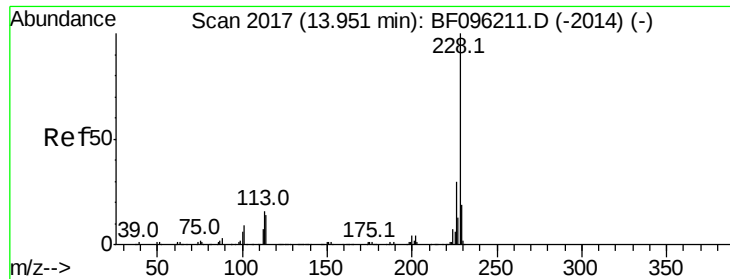
mohammad
 7/3/2017 11:36:56 AM



#80
 Benzo(a)anthracene
 Concen: 7.75 ng
 RT: 13.91 min Scan# 2010
 Delta R.T. 0.01 min
 Lab File: BF096340.D
 Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	33.8
229	22.8	16.3	24.5





#82

Chrysene

Concen: 7.12 ng/mL

RT: 13.94 min Scan# 2016

Delta R.T. 0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Instrument :

BNA_F

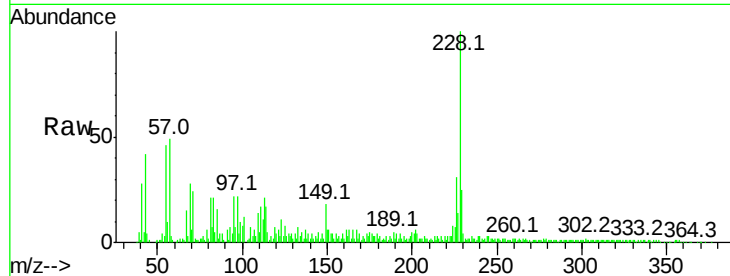
ClientSampled :

G29-1.5-3

Tot Ion:	228	Resp:	98087
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.9	37.3
229	25.3	15.8	23.6

Manual Integrations
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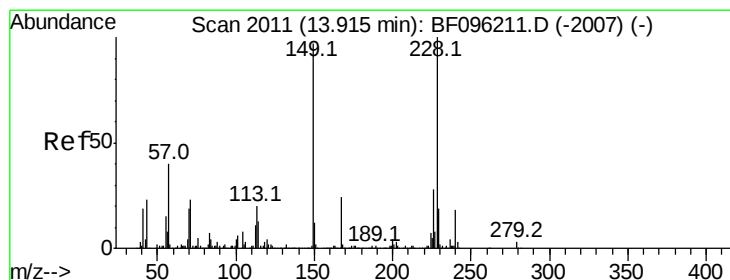
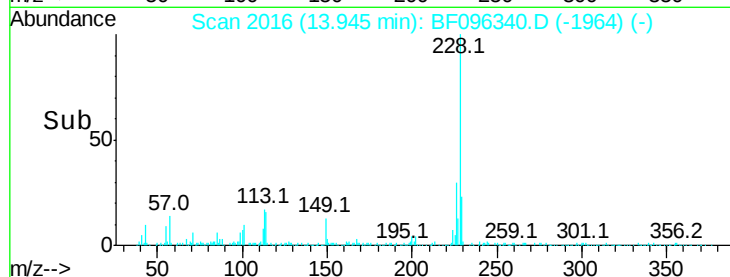
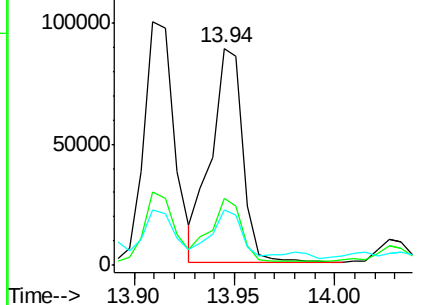
mohammad
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.48 ng/mL

RT: 13.92 min Scan# 2011

Delta R.T. -0.00 min

Lab File: BF096340.D

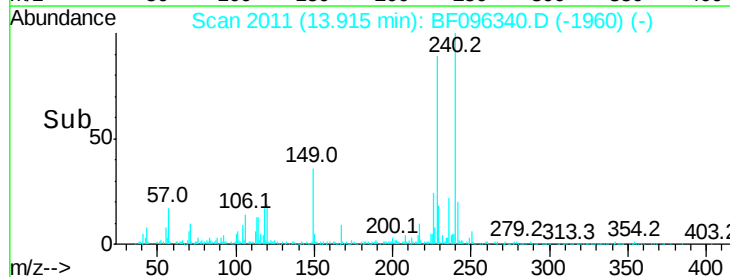
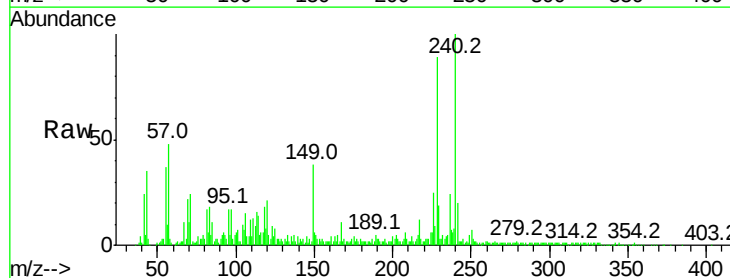
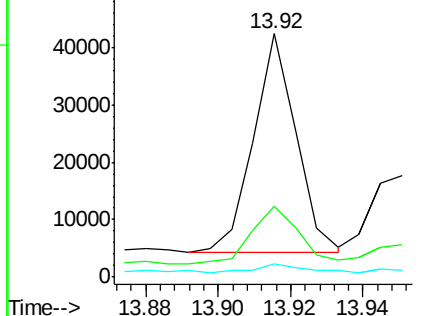
Acq: 30 Jun 2017 16:36

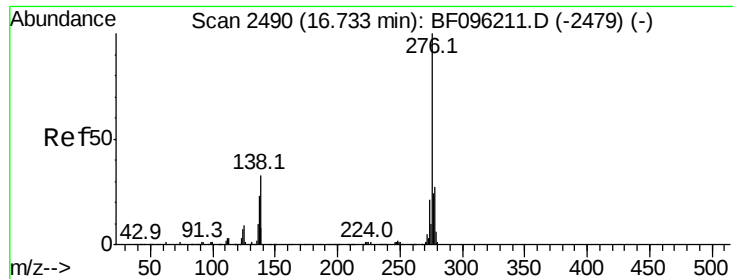
Tgt Ion:	149	Resp:	31092
Ion Ratio	Lower	Upper	
149	100		
167	29.3	21.0	31.4
279	5.6	1.9	2.9

Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





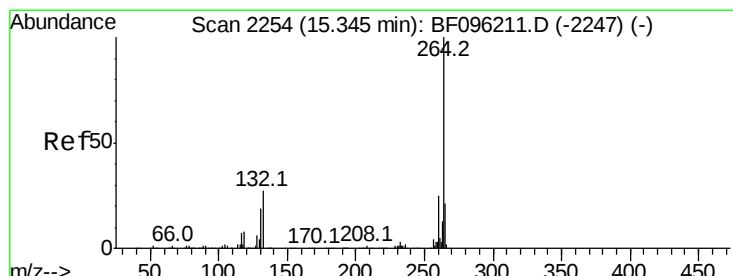
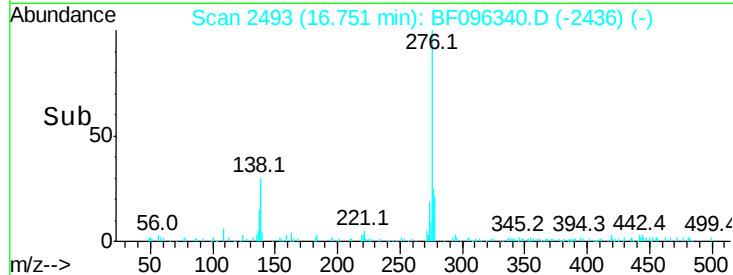
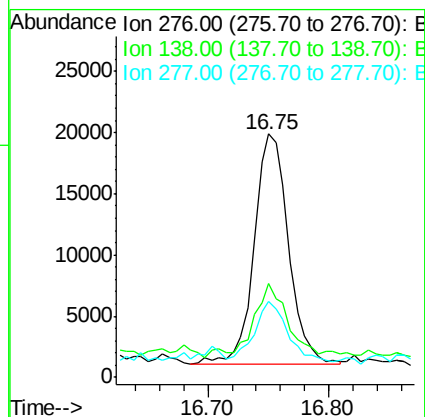
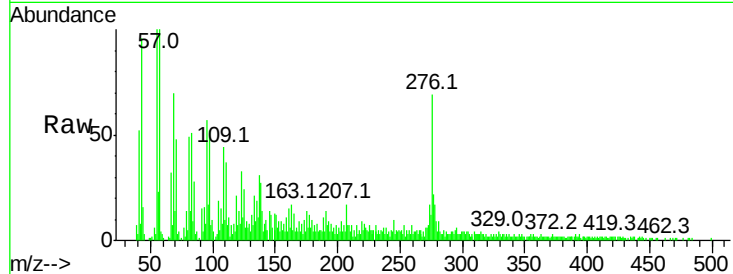
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.23 ng
RT: 16.75 min Scan# 2493
Delta R.T. 0.04 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Instrument :
BNA_F
ClientSampled :
G29-1.5-3

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.3	27.8	41.6#
277	25.5	20.2	30.4

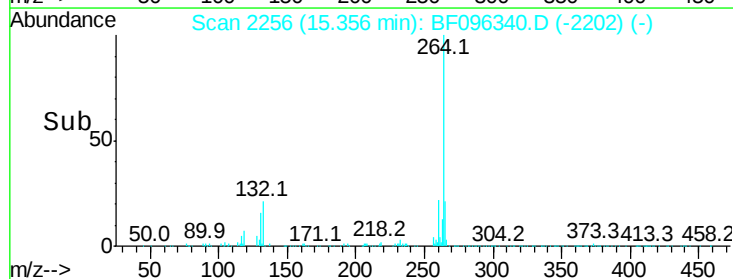
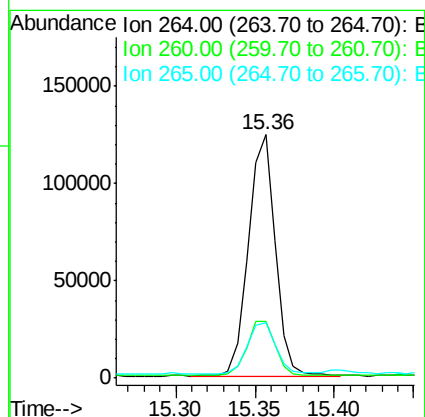
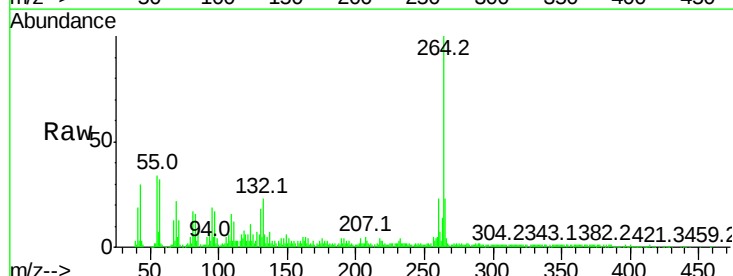
Manual Integrations
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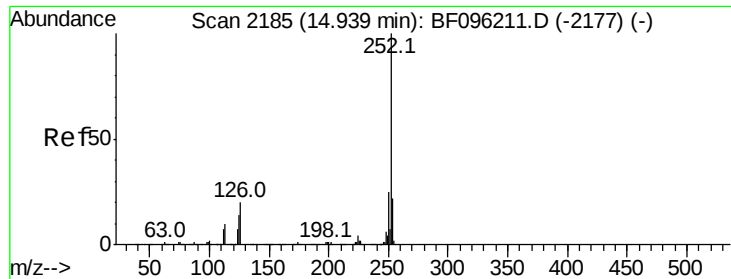
mohammad
7/3/2017 11:36:56 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 2256
Delta R.T. 0.02 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.5	29.3
265	22.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 9.39 ng m

RT: 14.94 min Scan# 2186

Delta R.T. -0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Instrument :

BNA_F

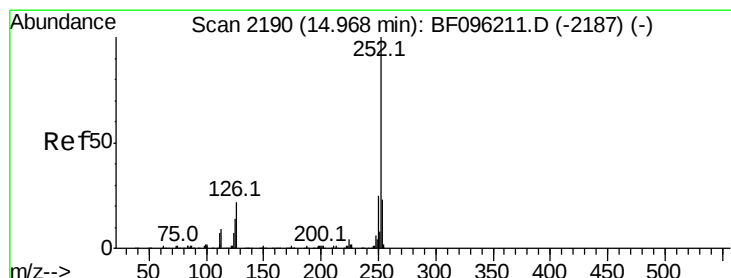
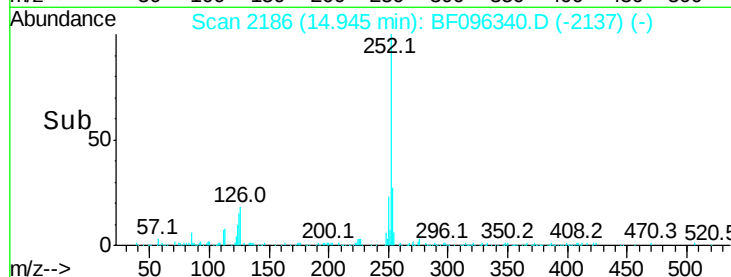
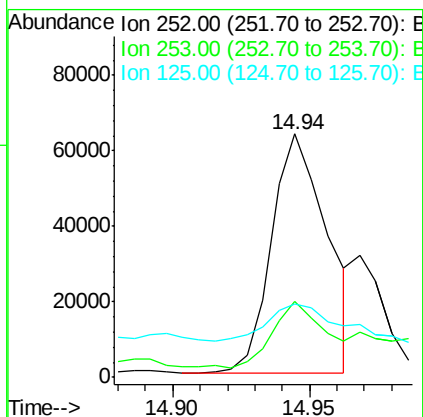
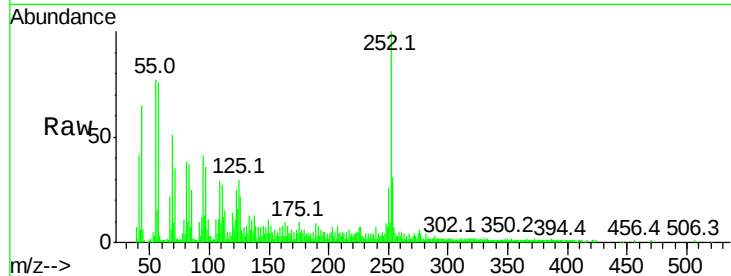
ClientSampleId :

G29-1.5-3

Tot Ion:	252	Resp:	89522
Ion Ratio	Lower	Upper	
252	100		
253	31.2	18.1	27.1#
125	30.0	9.8	14.8#

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#88

Benzo(k)fluoranthene

Concen: 3.07 ng m

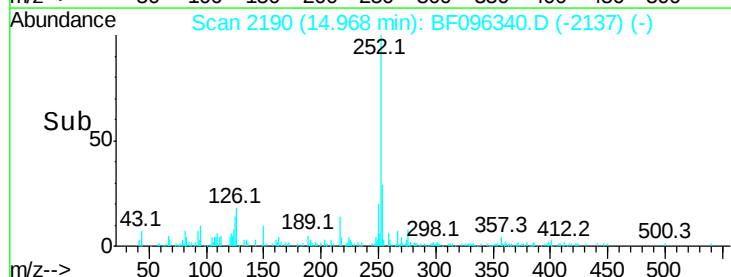
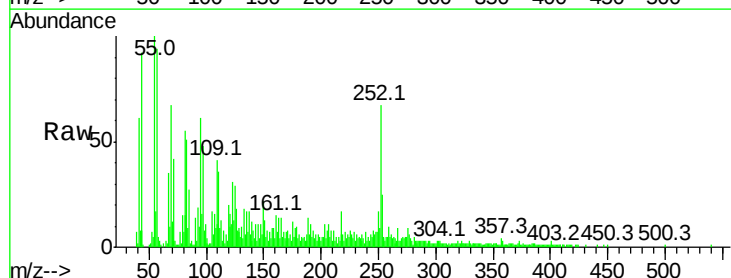
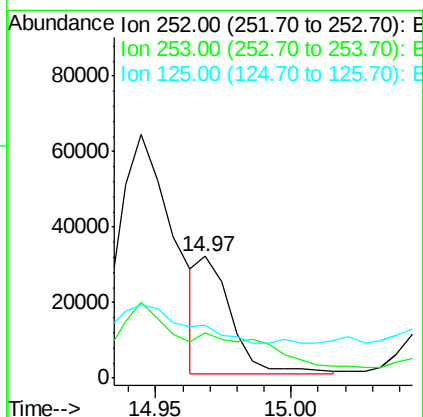
RT: 14.97 min Scan# 2190

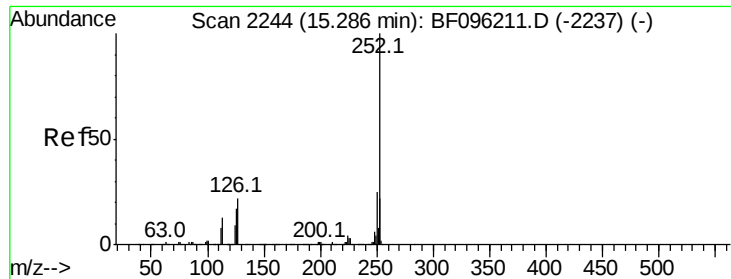
Delta R.T. 0.01 min

Lab File: BF096340.D

Acq: 30 Jun 2017 16:36

Tgt Ion:	252	Resp:	26705
Ion Ratio	Lower	Upper	
252	100		
253	36.7	18.4	27.6#
125	43.8	13.1	19.7#





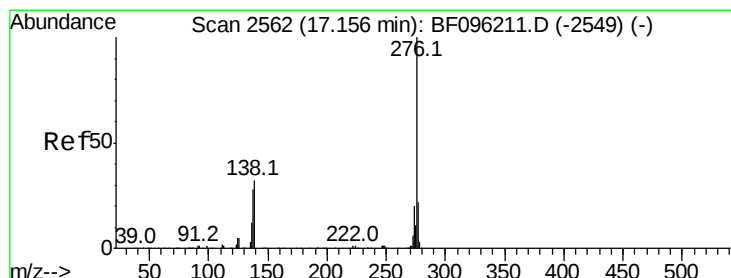
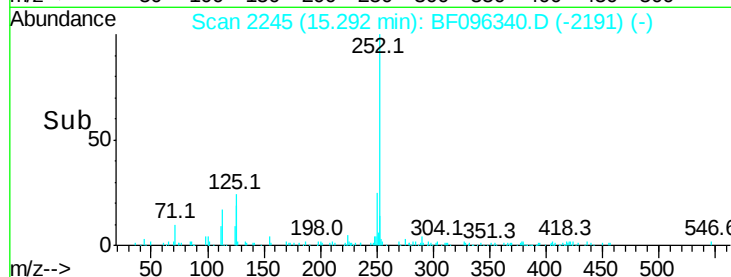
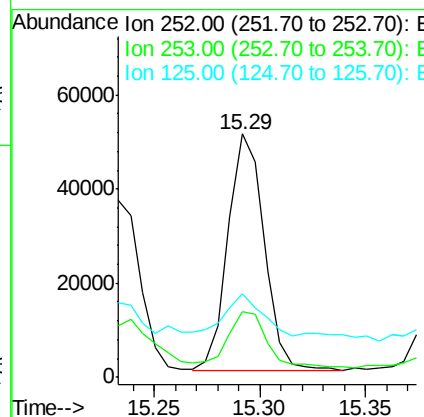
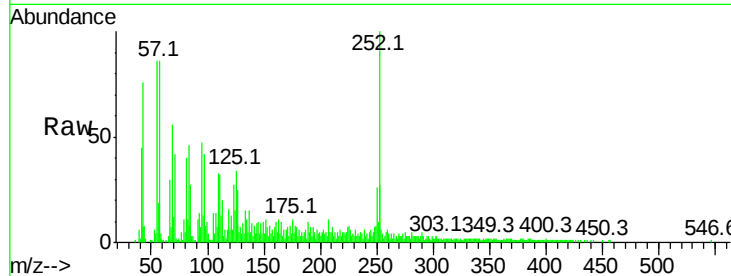
#89
Benzo(a)pyrene
Concen: 7.07 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.02 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Instrument :
BNA_F
ClientSampleId :
G29-1.5-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.2	17.5	26.3#
125	34.3	11.0	16.4#

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#91
Benzo(g,h,i)perylene
Concen: 5.37 ng
RT: 17.17 min Scan# 2565
Delta R.T. 0.04 min
Lab File: BF096340.D
Acq: 30 Jun 2017 16:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	32.4	18.6	28.0#
138	35.5	25.4	38.0

