

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF08129.D
 Acq On : 29 Aug 2017 23:49
 Operator : SJ/JU
 Sample : I4979-03 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

Manual Integrations
 APPROVED

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Quant Time: Aug 30 06:56:53 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	119284	20.00	ng	-0.02
21) Naphthalene-d8	8.03	136	380349	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	155520	20.00	ng	0.00
63) Phenanthrene-d10	11.27	188	232028	20.00	ng	0.00
75) Chrysene-d12	13.90	240	240003	20.00	ng	0.00
86) Perylene-d12	15.32	264	204524	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	211157	26.93	ng	-0.02
7) Phenol-d6	6.38	99	276751	25.97	ng	0.00
23) Nitrobenzene-d5	7.30	82	141791	20.25	ng	-0.02
41) 2,4,6-Tribromophenol	10.58	330	25066	18.58	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	191637	18.10	ng	-0.01
78) Terphenyl-d14	12.84	244	116710	10.14	ng	0.00
Target Compounds						
31) Naphthalene	8.06	128	3917258	198.384	ng	98
37) 2-Methylnaphthalene	8.76	142	4023086	332.322	ng	97
45) 1,1'-Biphenyl	9.21	154	1153109	81.308	ng	97
49) Dimethylphthalate	9.51	163	47876m	4.211	ng	
51) Acenaphthene	9.85	154	2410369	232.254	ng	99
54) Dibenzofuran	10.01	168	2526439	181.640	ng	99
57) Fluorene	10.35	166	2255666	209.757	ng	# 98
70) Phenanthrene	11.32	178	3358820	271.659	ng	99
71) Anthracene	11.36	178	1594305	127.132	ng	99
72) Carbazole	11.50	167	205189	17.237	ng	# 92
74) Fluoranthene	12.49	202	1450138	112.368	ng	100
77) Pylene	12.72	202	1259377	64.157	ng	98
80) Benzo(a)anthracene	13.89	228	246385	17.129	ng	96
82) Chrysene	13.92	228	213345m	14.910	ng	
87) Benzo(b)fluoranthene	14.91	252	113282m	8.787	ng	
88) Benzo(k)fluoranthene	14.93	252	28540m	2.356	ng	
89) Benzo(a)pyrene	15.25	252	66432	5.821	ng	# 94
91) Benzo(g,h,i)perylene	17.10	276	19787	2.041	ng	# 90

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

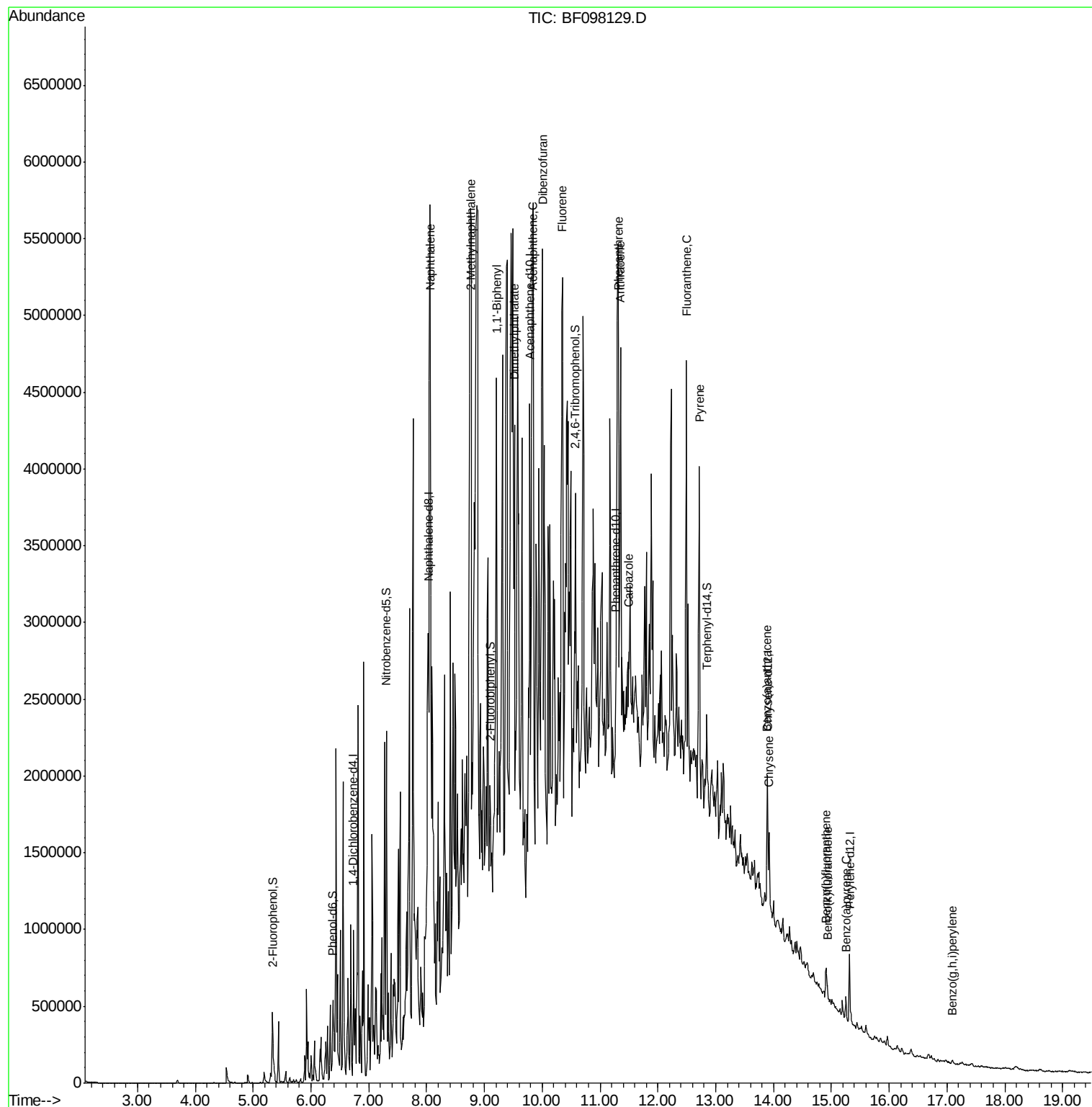
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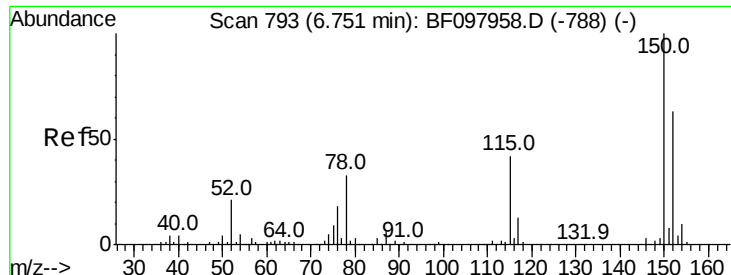
Instrument :
BNA_F
ClientSampleID :
TP-3

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#1

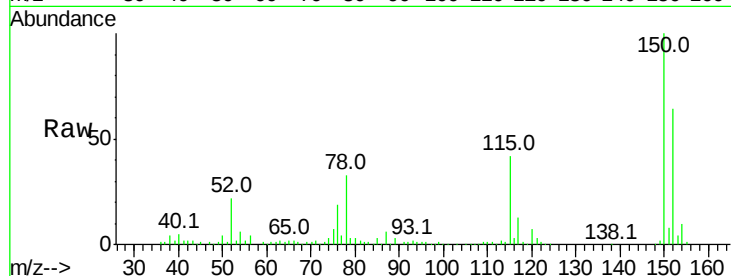
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Instrument :
BNA_F
ClientSampleId :
TP-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	126.2	189.2
115	65.6	52.2	78.2

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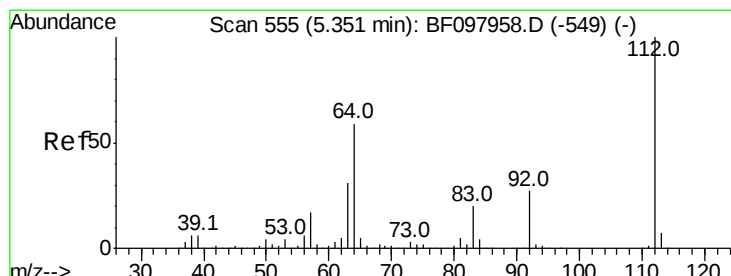
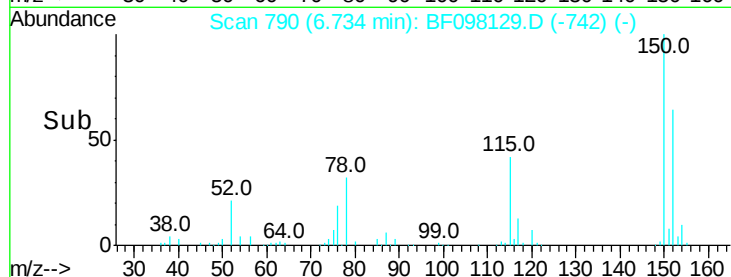
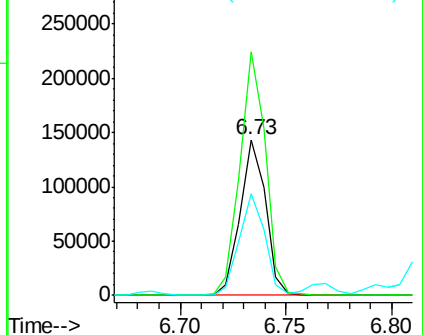


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

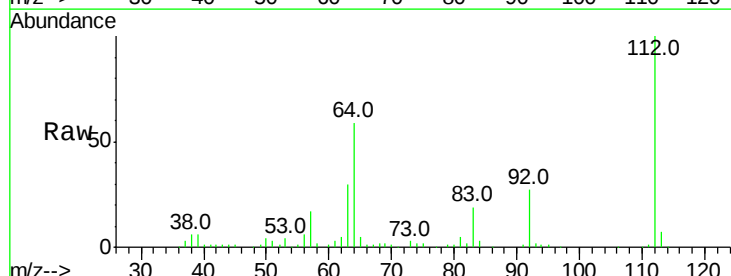
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 26.926 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	46.0	69.0
63	30.3	23.4	35.0

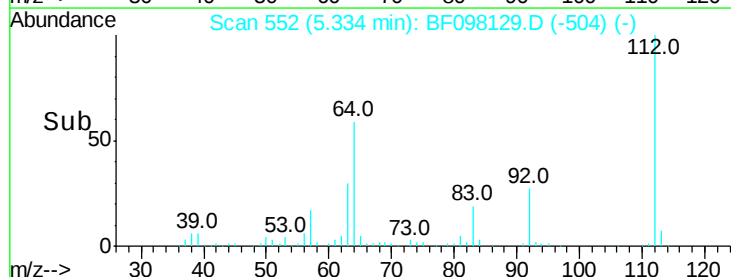
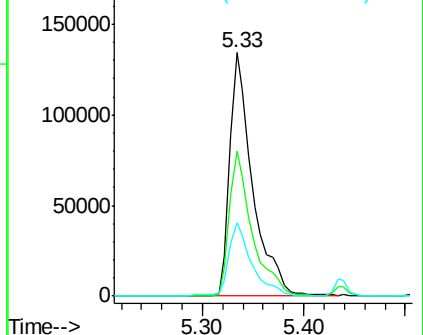


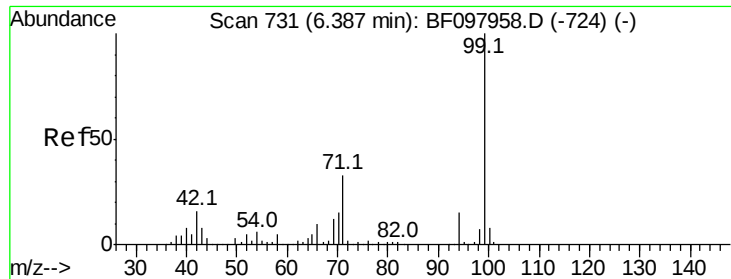
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.973 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

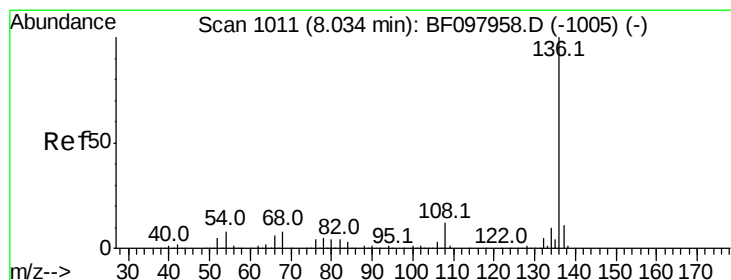
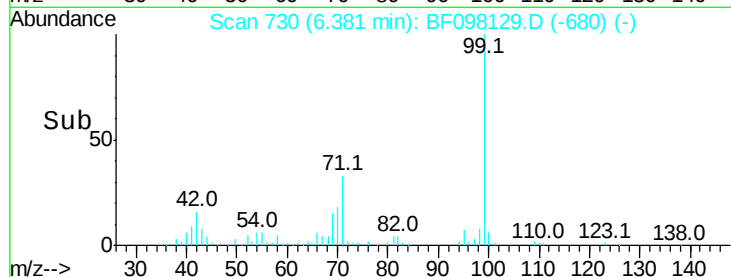
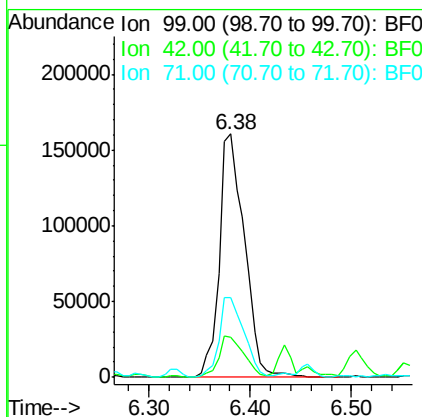
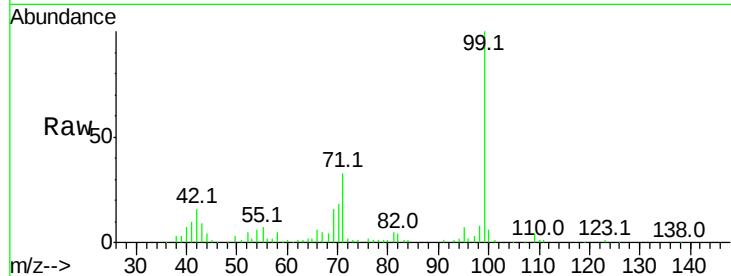
ClientSampleId :

TP-3

Tot Ion:	99	Resp:	276751
Ion Ratio	Lower	Upper	
99	100		
42	16.3	13.5	20.3
71	32.5	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

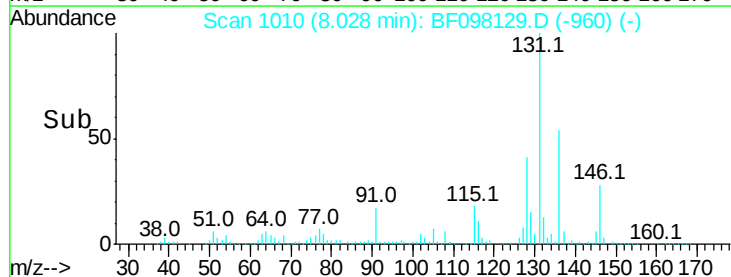
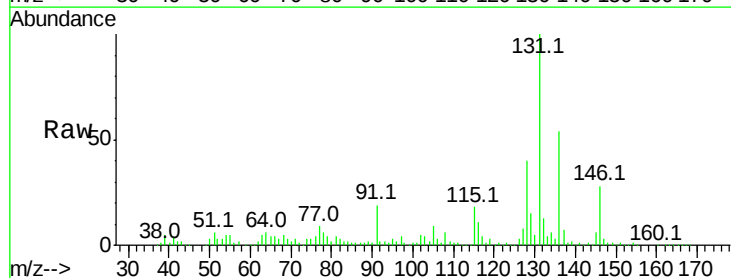
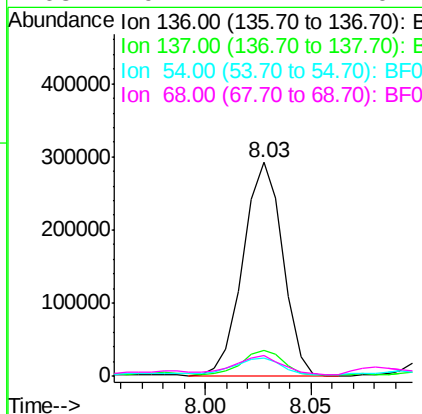
RT: 8.03 min Scan# 1010

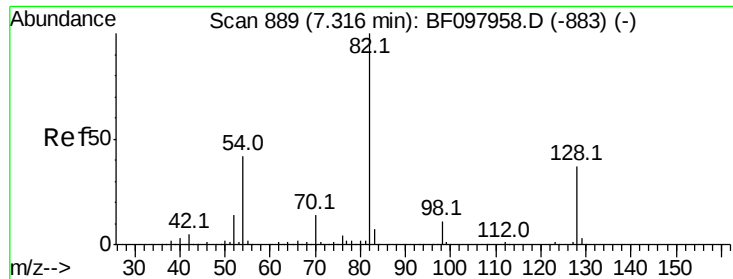
Delta R.T. -0.01 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Tgt Ion:	136	Resp:	380349
Ion Ratio	Lower	Upper	
136	100		
137	12.1	8.5	12.7
54	8.5	4.9	7.3#
68	9.4	4.1	6.1#





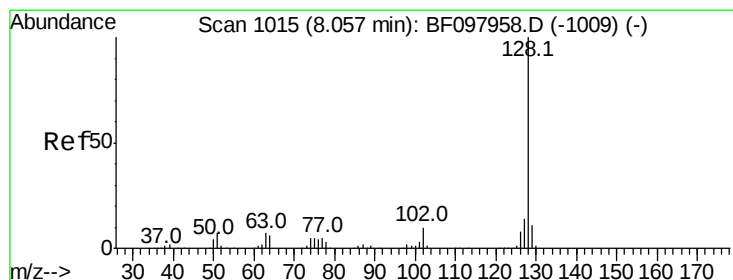
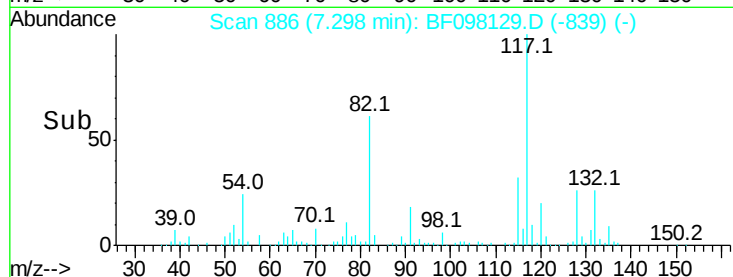
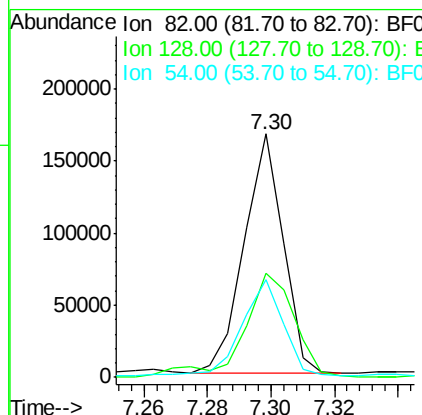
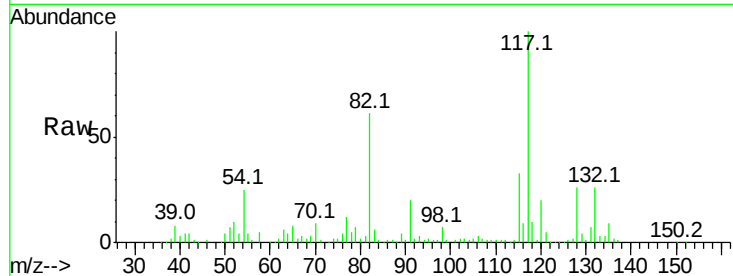
#23
Nitrobenzene-d5
Concen: 20.252 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.02 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Instrument :
BNA_F
ClientSampled :
TP-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.0	51.0
54	40.0	42.2	63.2

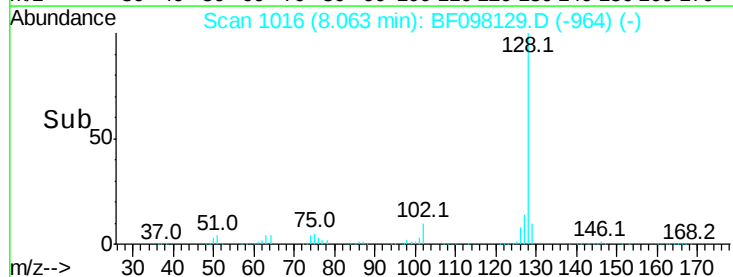
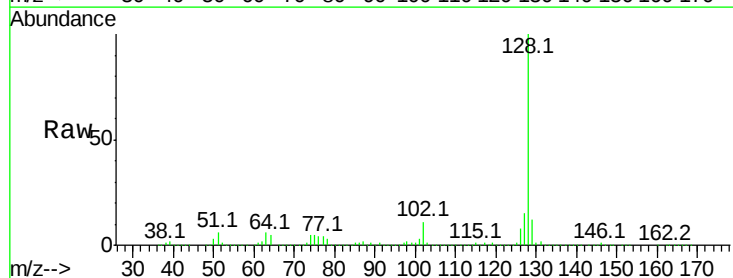
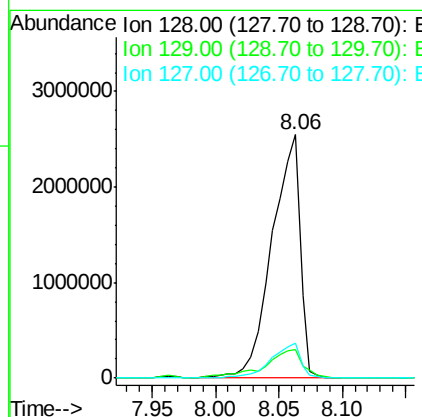
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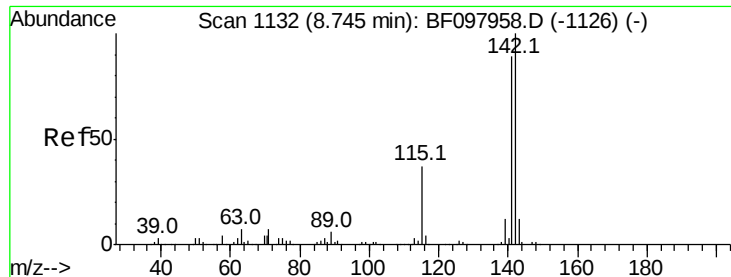
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#31
Naphthalene
Concen: 198.384 ng
RT: 8.06 min Scan# 1016
Delta R.T. 0.01 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.0	13.6
127	14.6	10.8	16.2





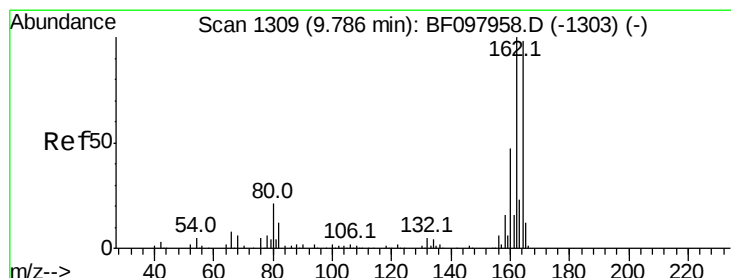
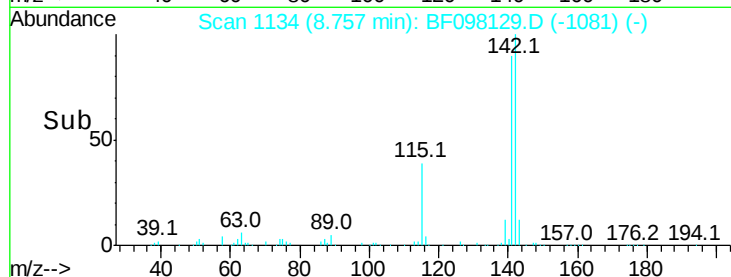
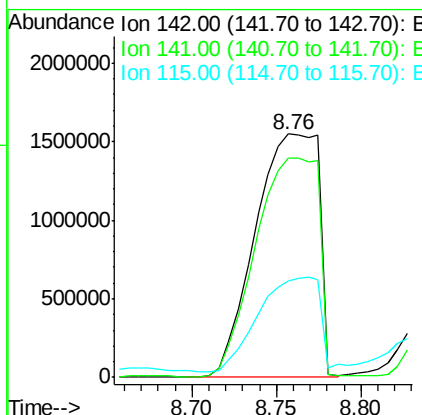
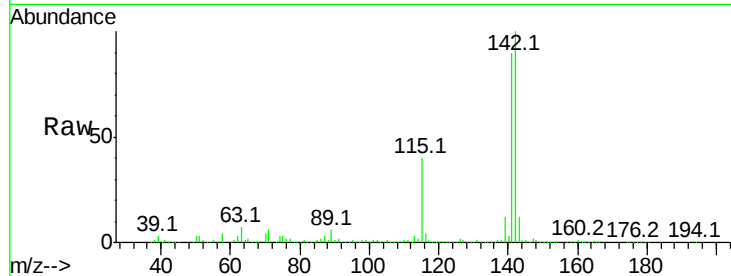
#37
2-Methylnaphthalene
Concen: 332.322 ng
RT: 8.76 min Scan# 1134
Delta R.T. 0.01 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Instrument :
BNA_F
ClientSampled :
TP-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.3	106.9
115	39.5	27.1	40.7

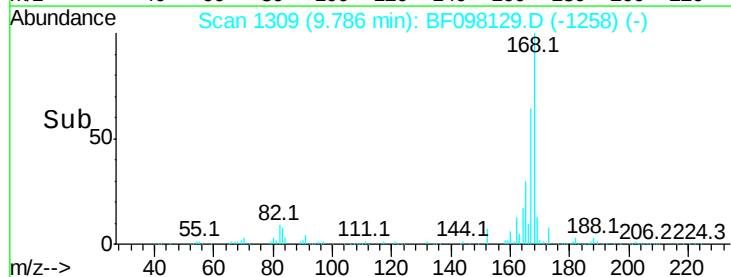
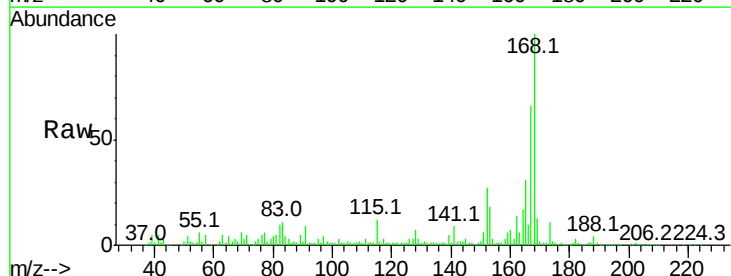
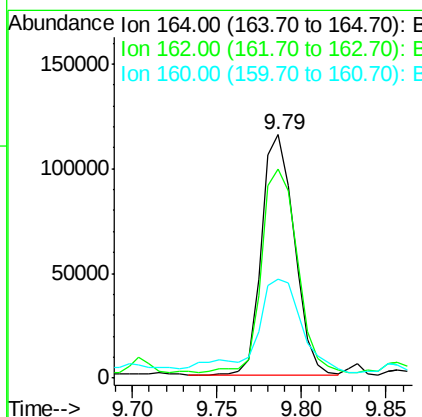
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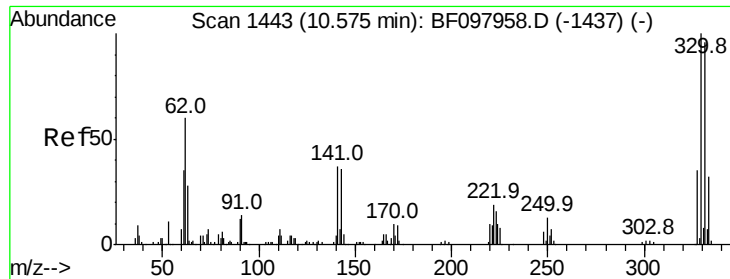
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1309
Delta R.T. -0.00 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	85.7	82.6	123.8
160	40.8	36.2	54.2





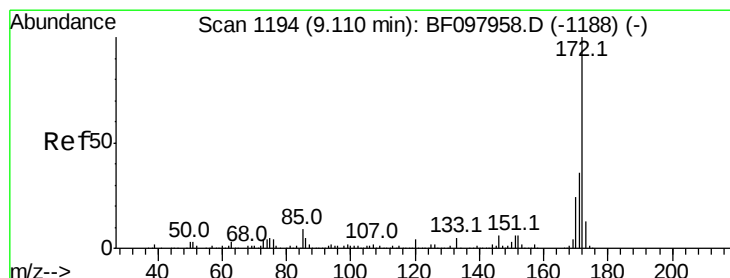
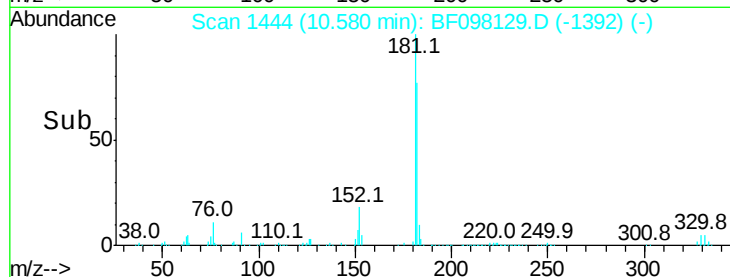
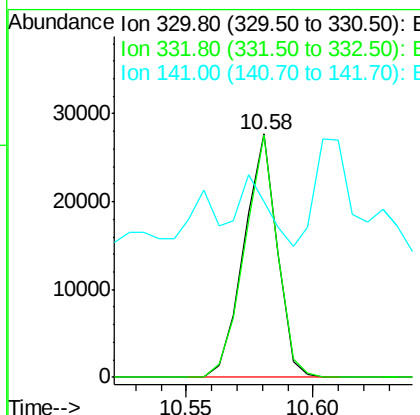
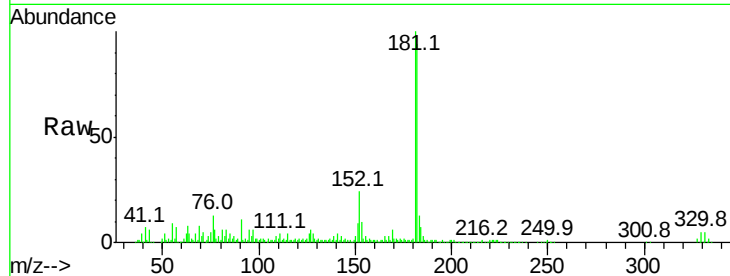
#41
 2,4,6-Tribromophenol
 Concen: 18.576 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. 0.01 min
 Lab File: BF098129.D
 Acq: 29 Aug 2017 23:49

Instrument :
 BNA_F
 ClientSampled :
 TP-3

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.9	76.6	115.0
141	25.7	31.4	47.2

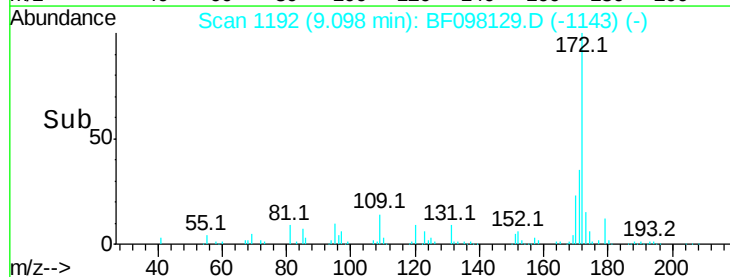
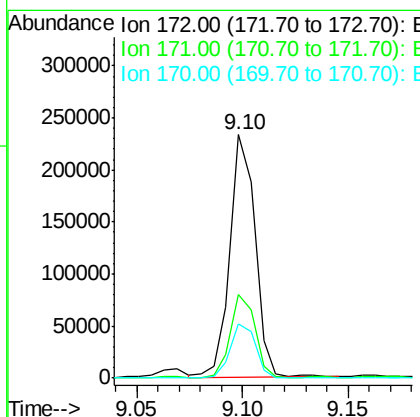
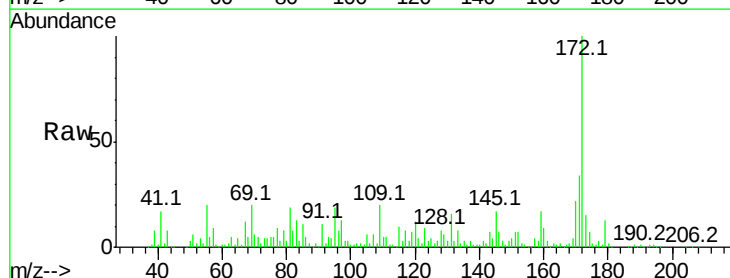
Manual Integrations
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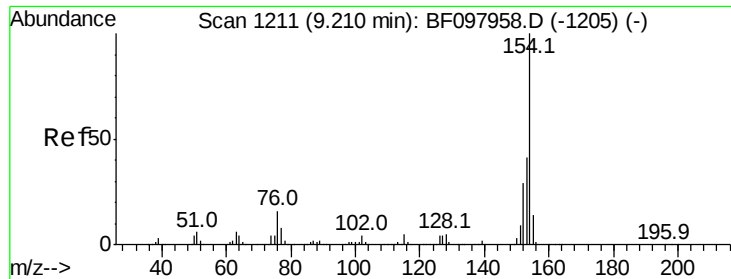
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#44
 2-Fluorobiphenyl
 Concen: 18.104 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF098129.D
 Acq: 29 Aug 2017 23:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.6	44.4
170	22.5	19.8	29.8





#45

1,1'-Biphenyl

Concen: 81.308 ng

RT: 9.21 min Scan# 1211

Delta R.T. -0.00 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

ClientSampleId :

TP-3

Tot Ion:154 Resp: 1153109

Ion Ratio Lower Upper

154 100

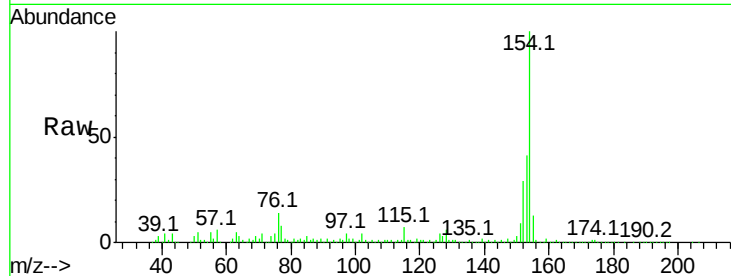
153 40.9 21.2 61.2

76 14.2 0.0 29.9

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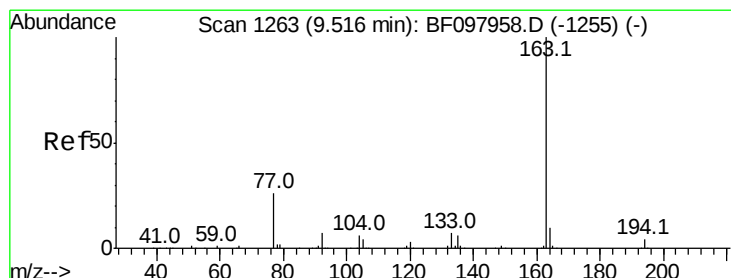
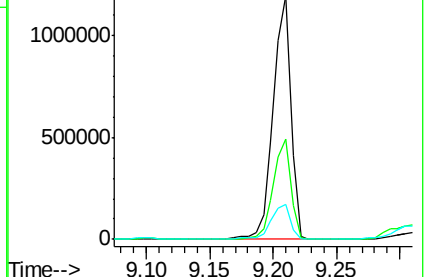
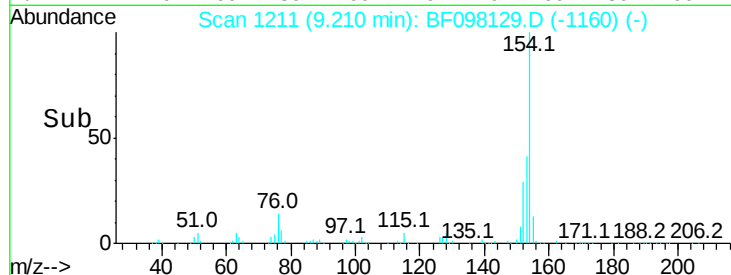
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): E



#49

Dimethylphthalate

Concen: 4.211 ng m

RT: 9.51 min Scan# 1262

Delta R.T. -0.01 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

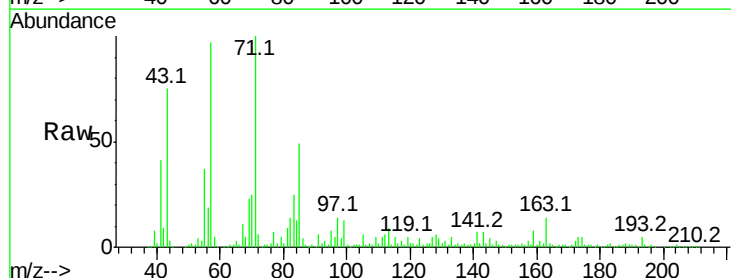
Tgt Ion:163 Resp: 47876

Ion Ratio Lower Upper

163 100

194 9.8 2.6 4.0#

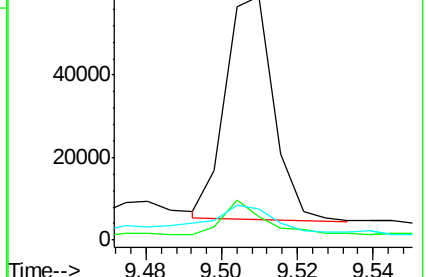
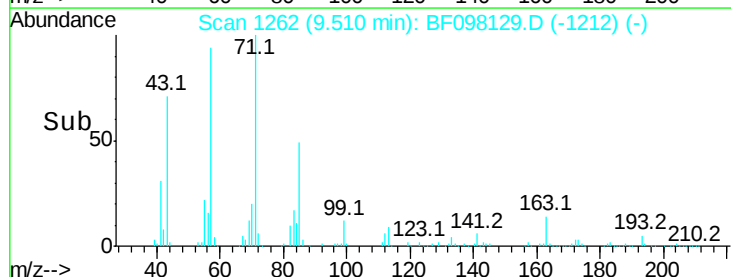
164 12.9 8.4 12.6#

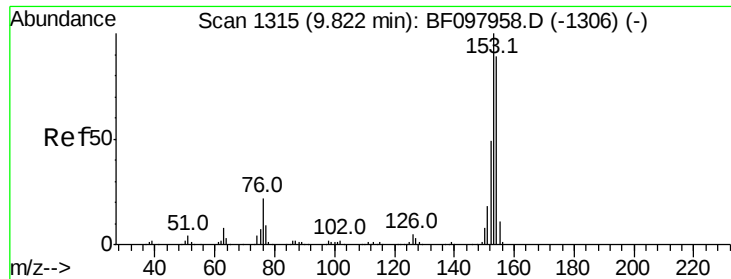


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 232.254 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.02 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

ClientSampleId :

TP-3

Tot Ion:154 Resp: 2410369

Ion Ratio Lower Upper

154 100

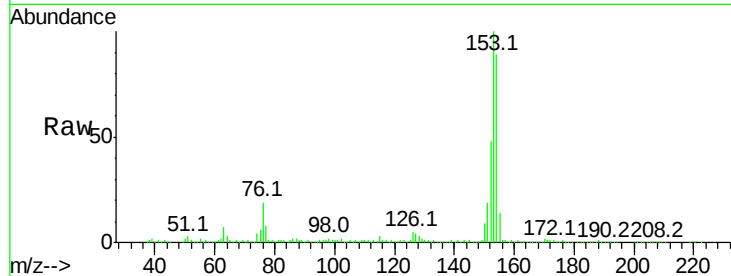
153 112.3 90.5 135.7

152 54.4 43.6 65.4

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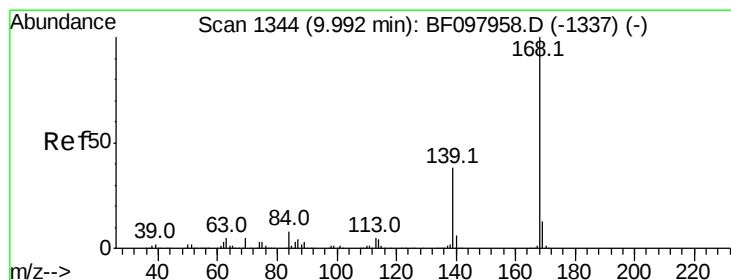
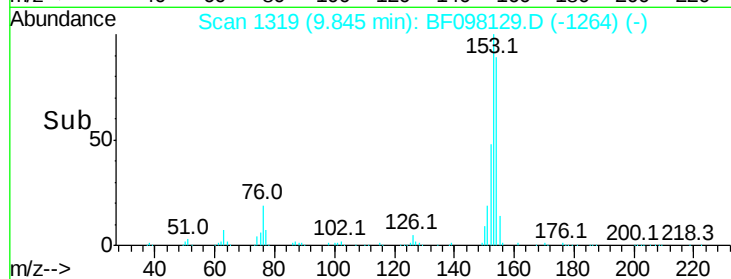
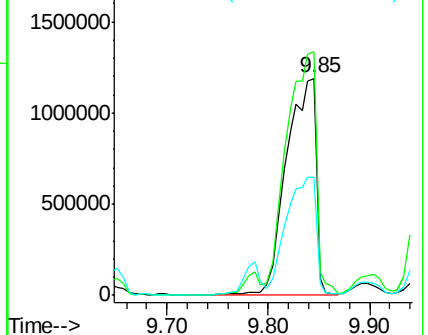
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 181.640 ng

RT: 10.01 min Scan# 1347

Delta R.T. 0.02 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

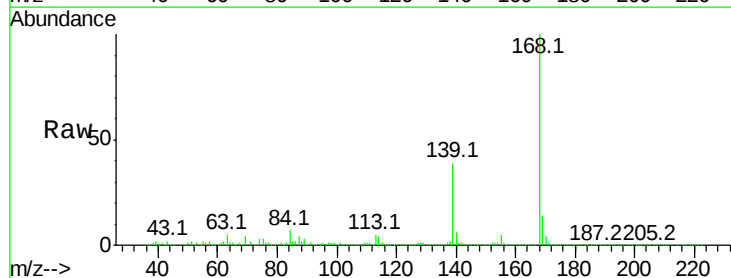
Tgt Ion:168 Resp: 2526439

Ion Ratio Lower Upper

168 100

139 38.6 30.6 45.8

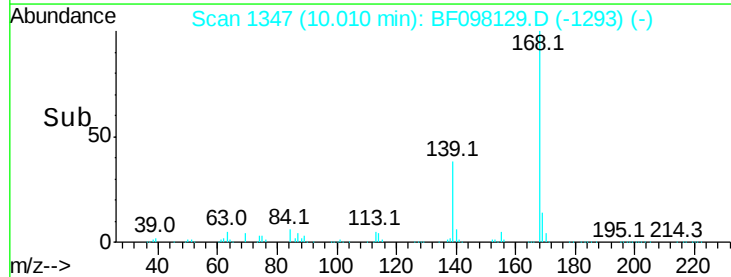
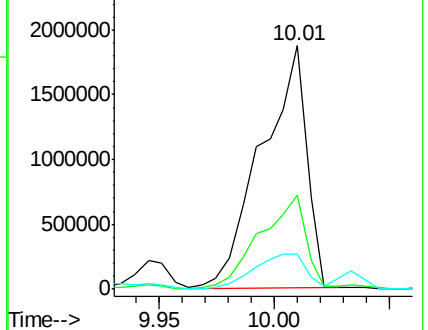
169 14.1 10.8 16.2

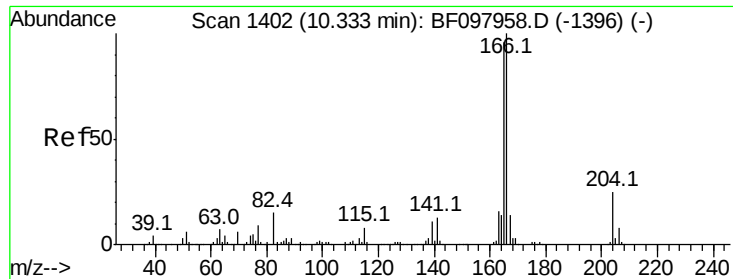


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57
Fluorene
 Concen: 209.757 ng
 RT: 10.35 min Scan# 1405
 Delta R.T. 0.02 min
 Lab File: BF098129.D
 Acq: 29 Aug 2017 23:49

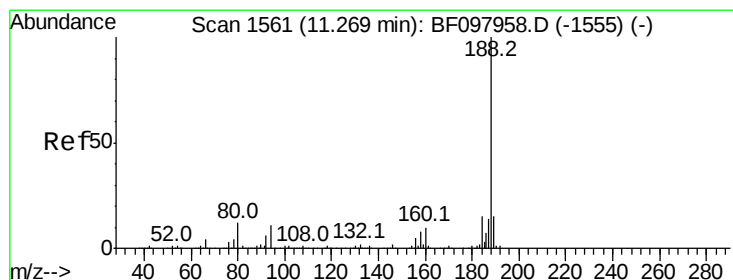
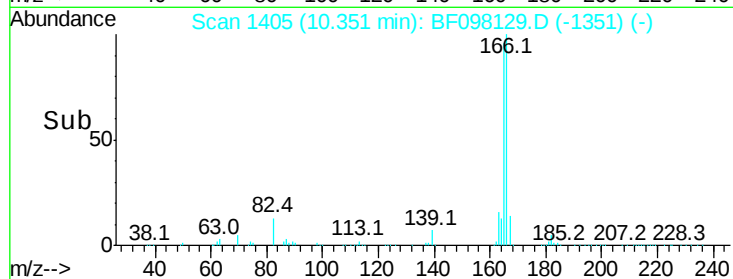
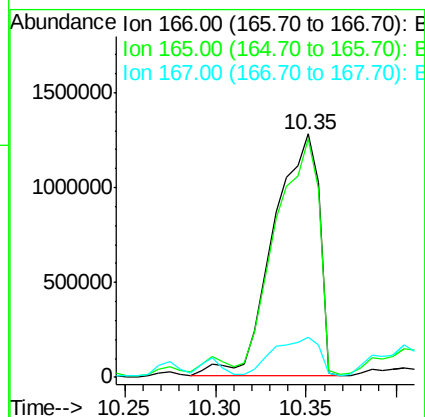
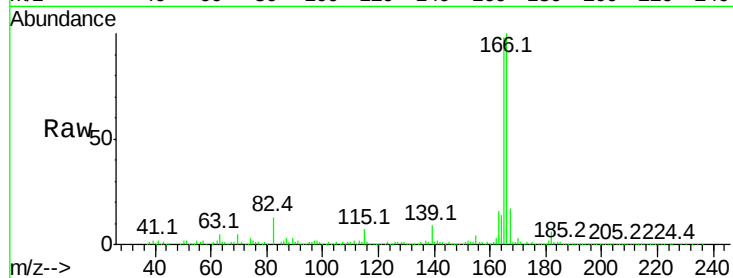
Instrument :
 BNA_F
 ClientSampled :
 TP-3

Tot Ion:166 Resp: 2255666

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.8	118.2
167	16.7	10.6	16.0#

Manual Integrations
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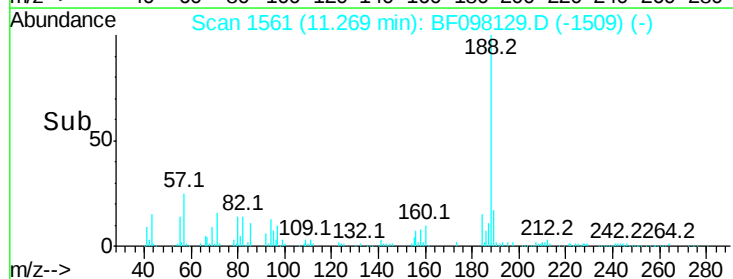
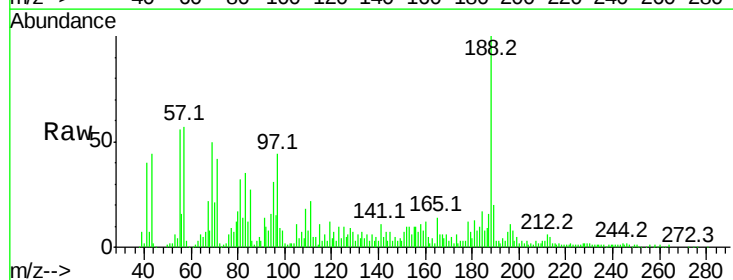
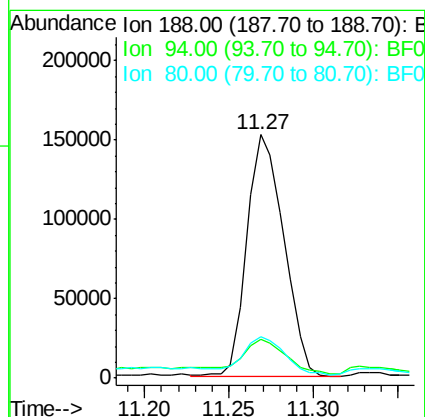
Sohil
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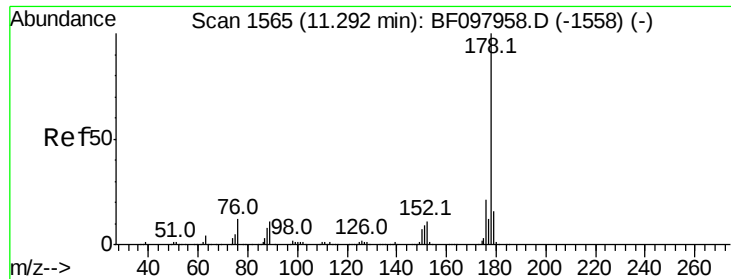


#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: BF098129.D
 Acq: 29 Aug 2017 23:49

Tgt Ion:188 Resp: 232028

Ion	Ratio	Lower	Upper
188	100		
94	16.2	9.4	14.2#
80	16.8	10.2	15.2#





#70

Phenanthrene

Concen: 271.659 ng

RT: 11.32 min Scan# 1569

Delta R.T. 0.02 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

ClientSampleId :

TP-3

Tot Ion:178 Resp: 3358820

Ion Ratio Lower Upper

178 100

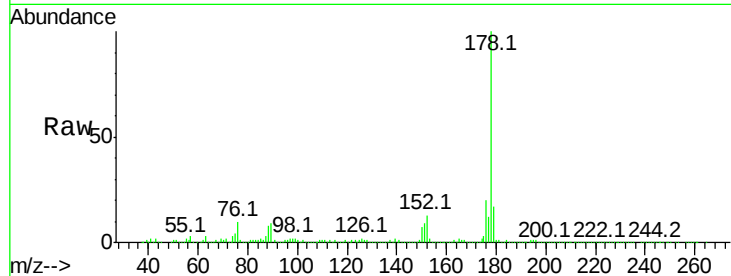
176 20.3 16.2 24.4

179 16.5 12.6 19.0

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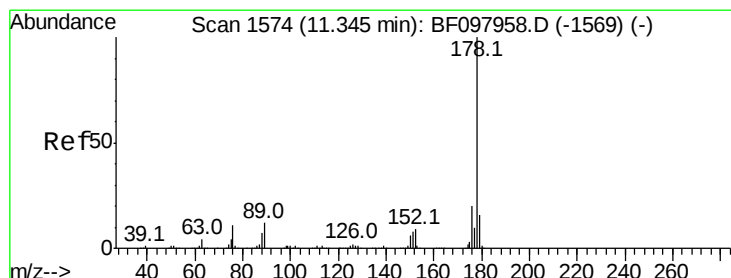
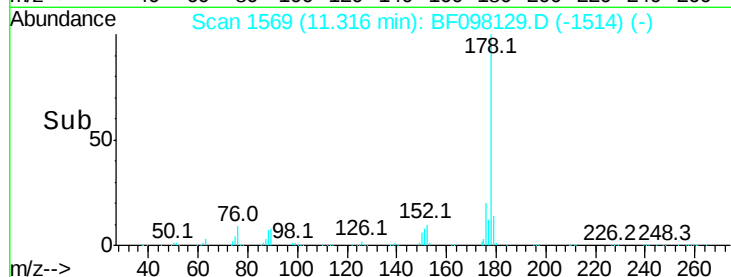
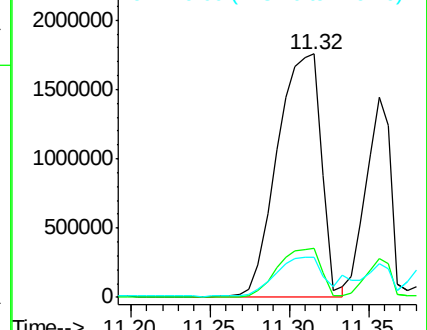
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 127.132 ng

RT: 11.36 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

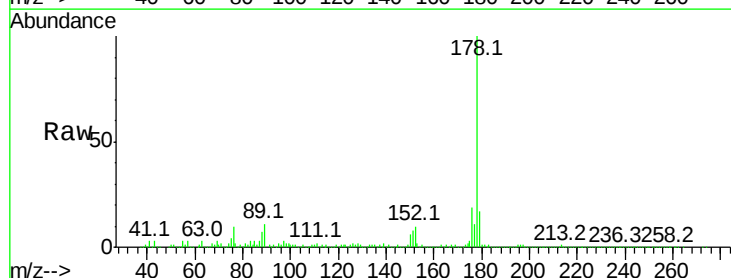
Tgt Ion:178 Resp: 1594305

Ion Ratio Lower Upper

178 100

176 19.2 15.8 23.8

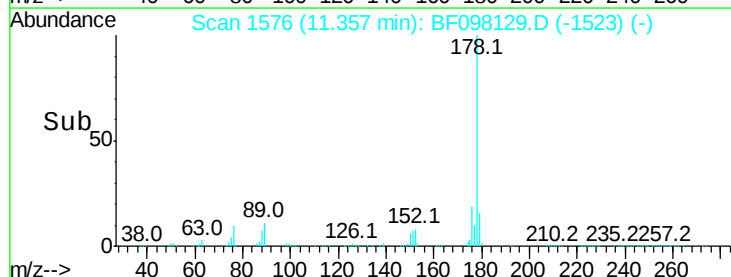
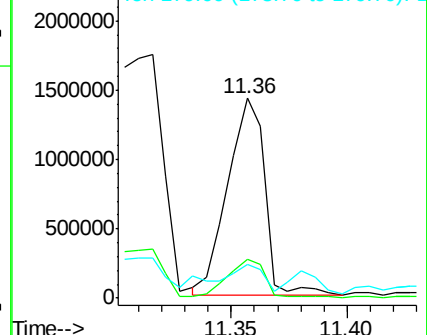
179 16.6 12.7 19.1

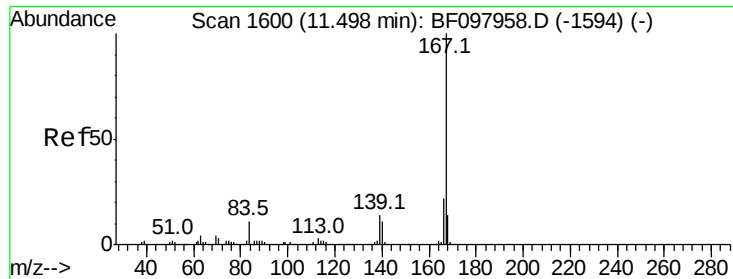


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 17.237 ng

RT: 11.50 min Scan# 1600

Delta R.T. -0.00 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

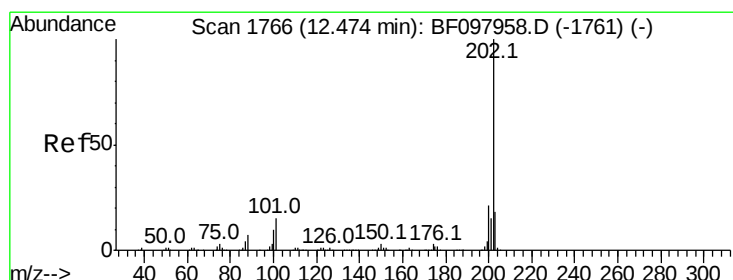
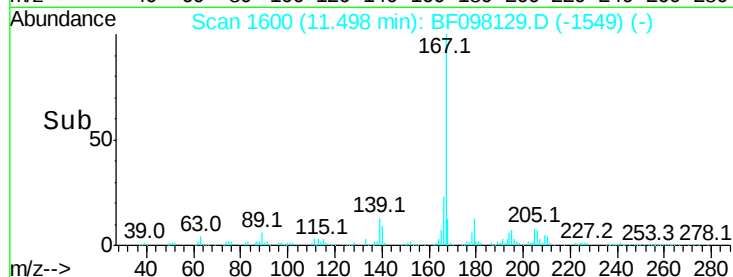
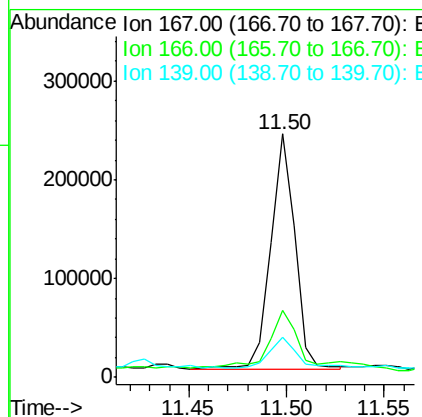
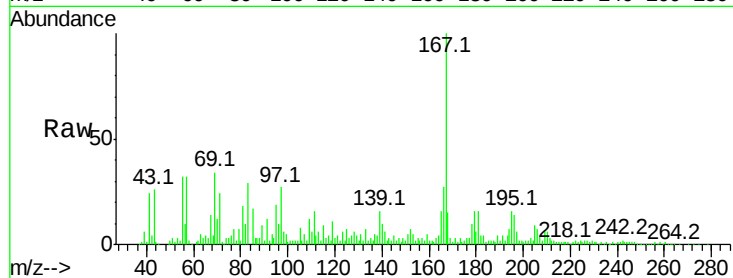
ClientSampleId :

TP-3

Tot Ion:	167	Resp:	205189
Ion Ratio	Lower	Upper	
167	100		
166	27.3	18.1	27.1#
139	16.4	11.7	17.5

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#74

Fluoranthene

Concen: 112.368 ng

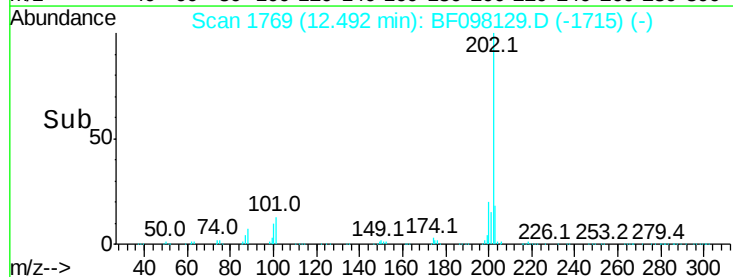
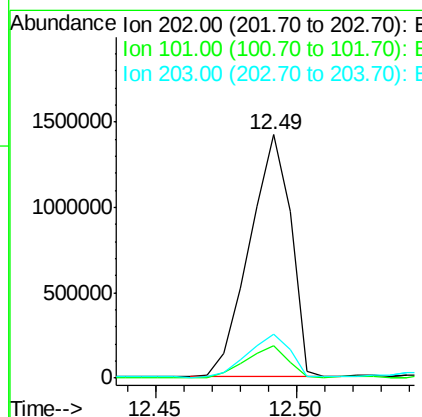
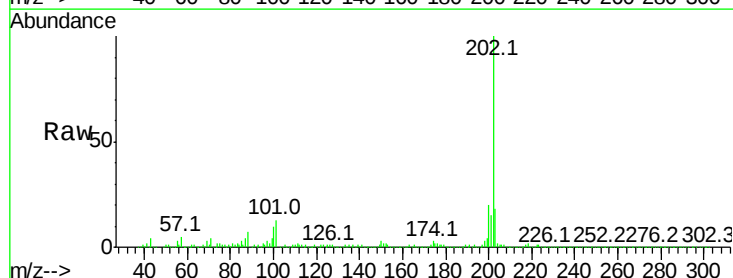
RT: 12.49 min Scan# 1769

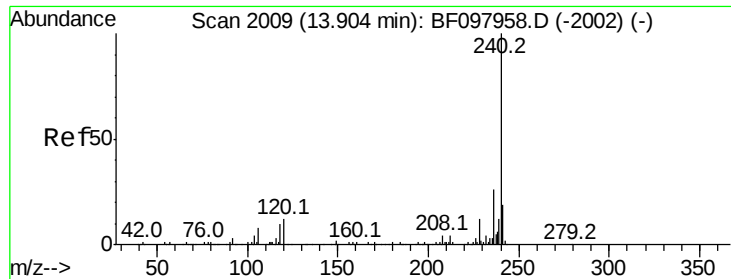
Delta R.T. 0.02 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Tgt Ion:	202	Resp:	1450138
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	33.2
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

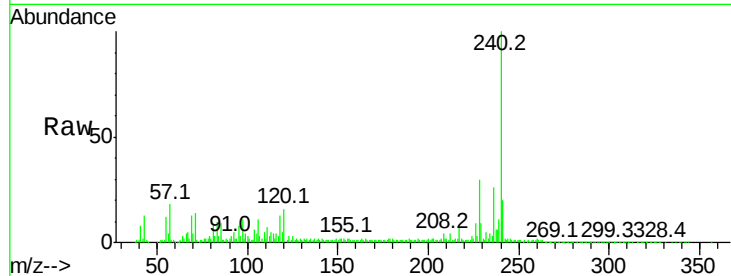
ClientSampled :

TP-3

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.5	5.8	8.8#
236	26.3	20.5	30.7

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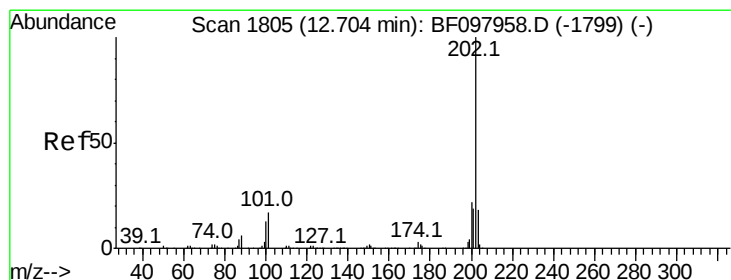
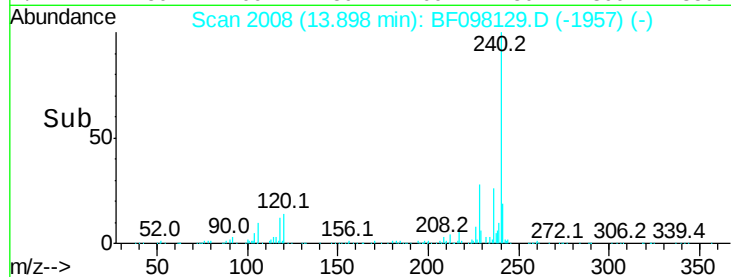
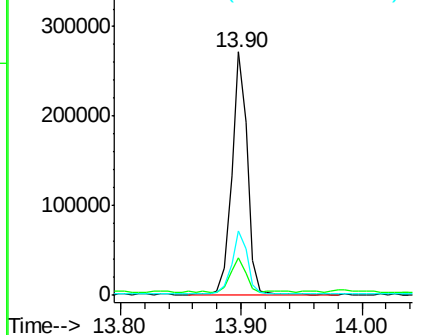
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 64.157 ng

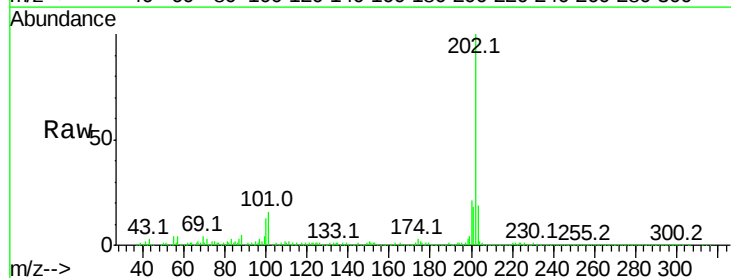
RT: 12.72 min Scan# 1807

Delta R.T. 0.01 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

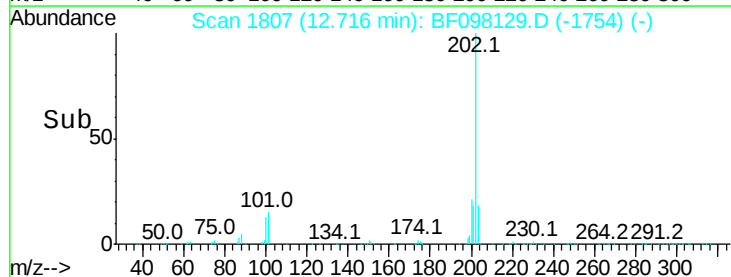
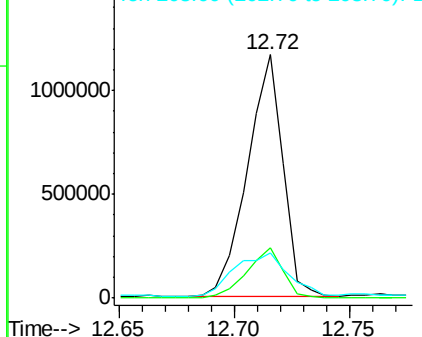
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.6	26.4
203	18.7	14.4	21.6

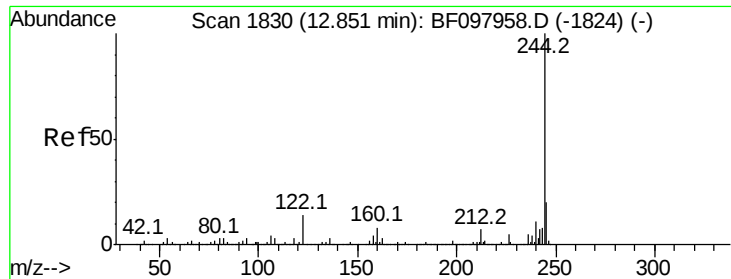


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





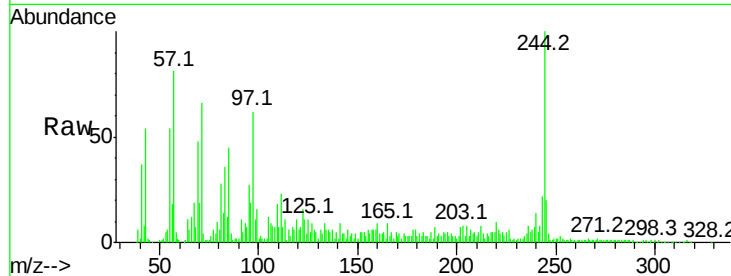
#78
 Terphenyl-d14
 Concen: 10.141 ng
 RT: 12.84 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BF098129.D
 Acq: 29 Aug 2017 23:49

Instrument :
 BNA_F
 ClientSampled :
 TP-3

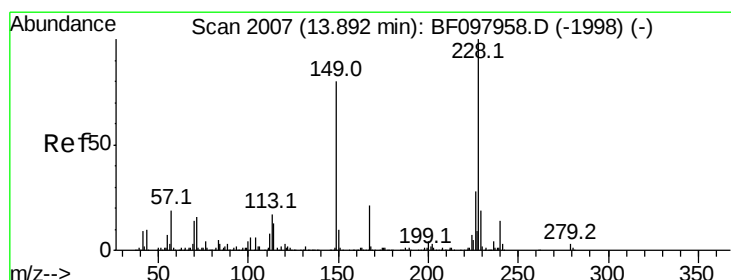
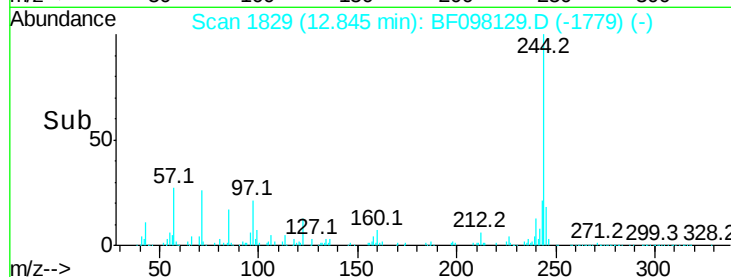
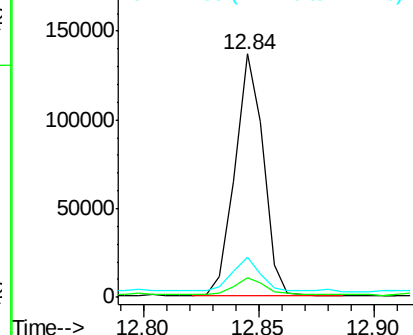
Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	8.0	6.0	9.0
122	16.2	10.3	15.5

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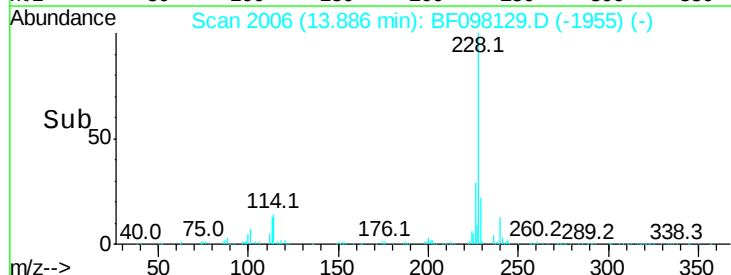
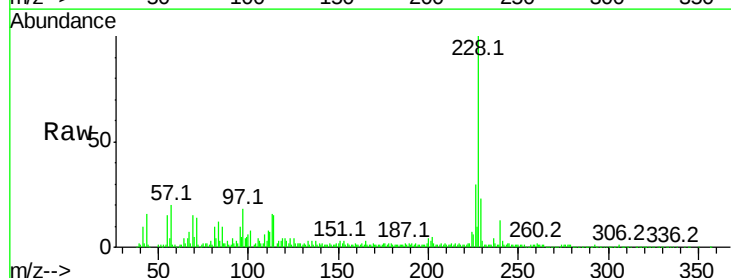
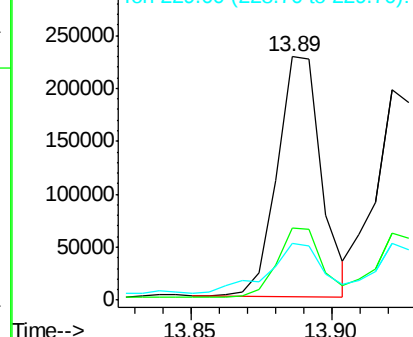
Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

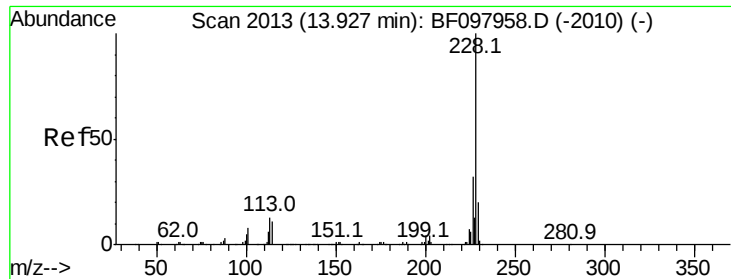


#80
 Benzo(a)anthracene
 Concen: 17.129 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. -0.00 min
 Lab File: BF098129.D
 Acq: 29 Aug 2017 23:49

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	29.7	22.6	33.8
229	23.1	16.3	24.5

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





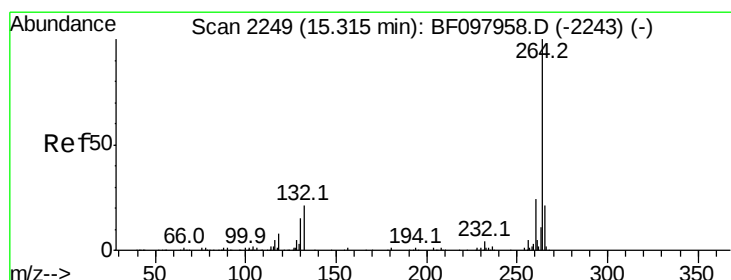
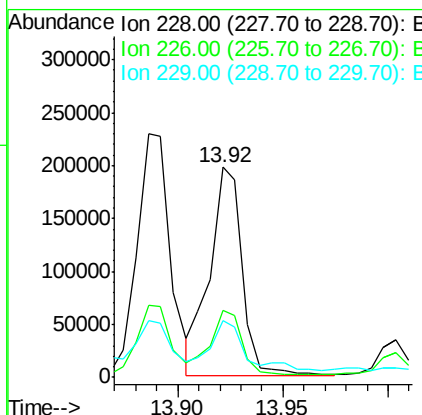
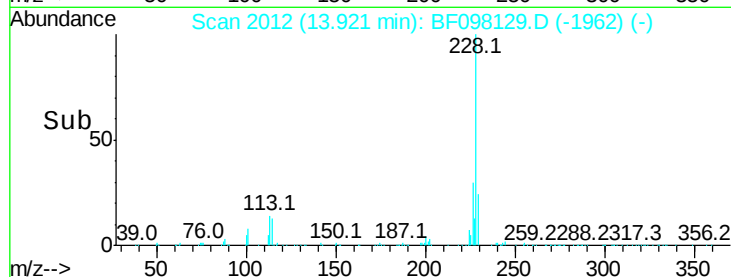
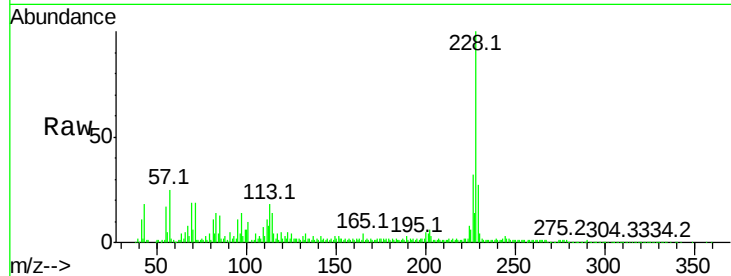
#82
Chrysene
Concen: 14.910 ng/ml
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Instrument :
BNA_F
ClientSampleId :
TP-3

Tot Ion:	228	Resp:	213345
Ion Ratio	Lower	Upper	
228	100		
226	31.8	24.9	37.3
229	26.8	15.8	23.6

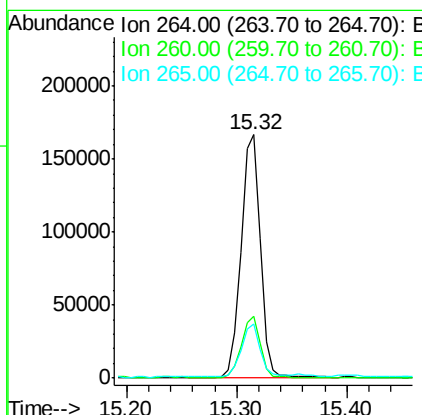
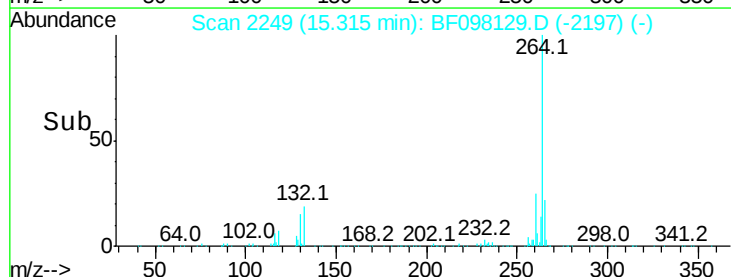
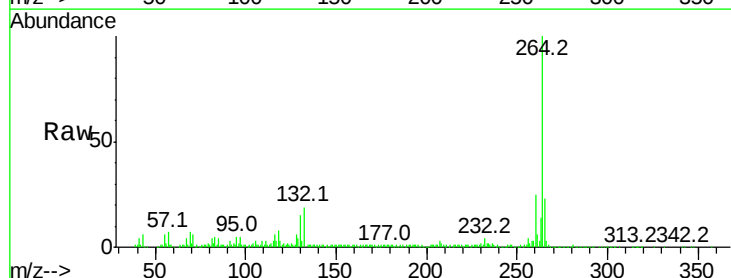
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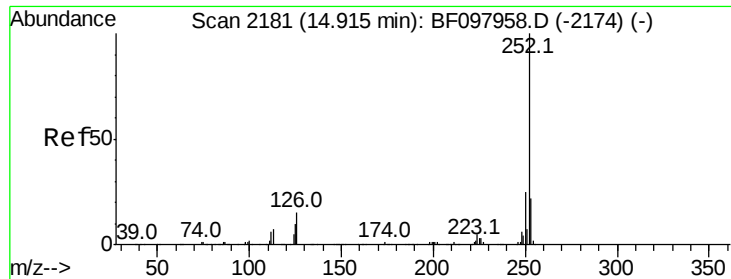
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.01 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Tgt Ion:	264	Resp:	204524
Ion Ratio	Lower	Upper	
264	100		
260	25.2	19.5	29.3
265	22.5	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 8.787 ng m

RT: 14.91 min Scan# 2180

Delta R.T. -0.00 min

Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Instrument :

BNA_F

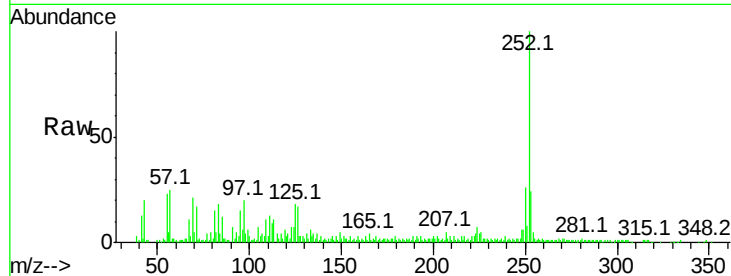
ClientSampled :

TP-3

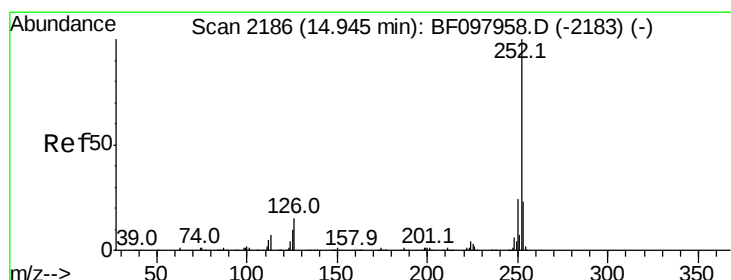
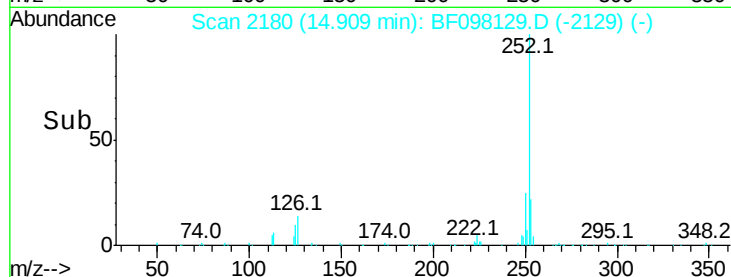
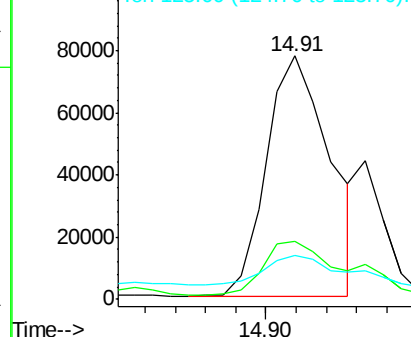
Tot Ion:	252	Resp:	113282
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.1	27.1
125	18.1	9.8	14.8#

Manual Integrations
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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: 2.356 ng m

RT: 14.93 min Scan# 2184

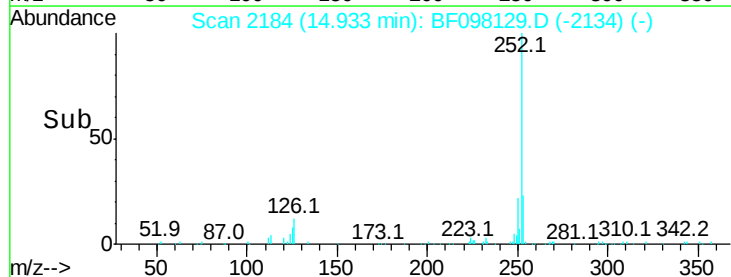
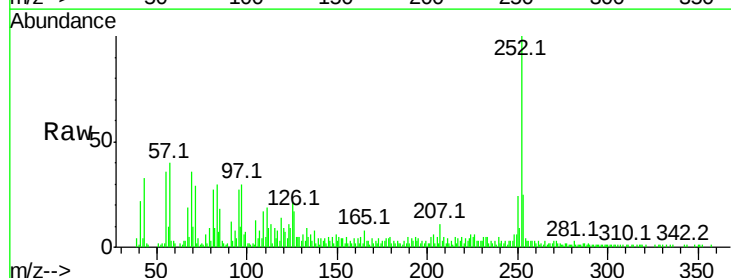
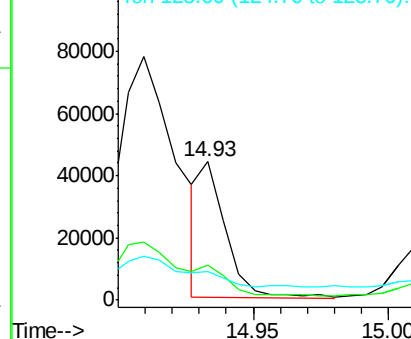
Delta R.T. -0.01 min

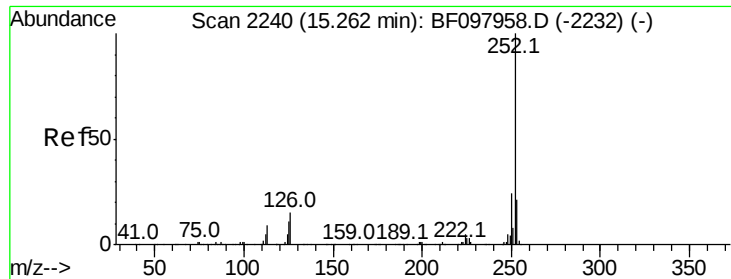
Lab File: BF098129.D

Acq: 29 Aug 2017 23:49

Tgt Ion:	252	Resp:	28540
Ion Ratio	Lower	Upper	
252	100		
253	24.9	18.4	27.6
125	20.9	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





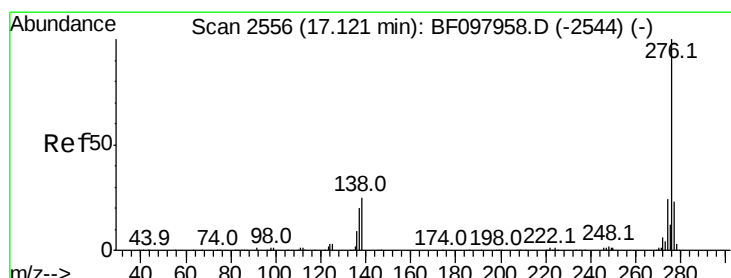
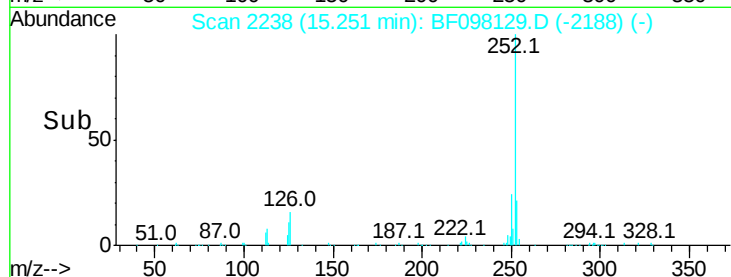
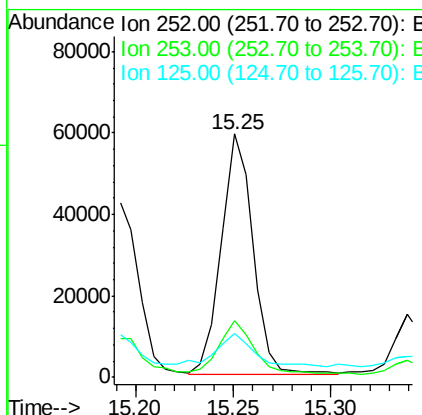
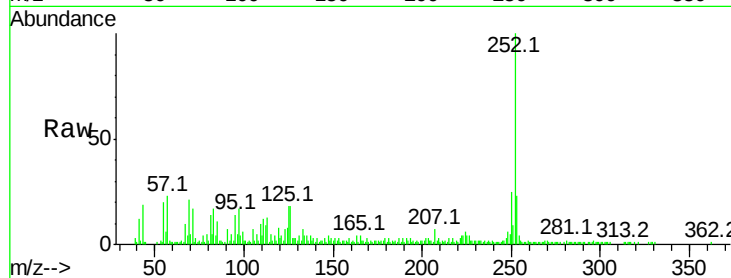
#89
Benzo(a)pyrene
Concen: 5.821 ng
RT: 15.25 min Scan# 2238
Delta R.T. -0.01 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Instrument :
BNA_F
ClientSampled :
TP-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	18.1	11.0	16.4

Manual Integrations
APPROVED

Sohil
8/30/2017 6:45:07 PM



#91
Benzo(g,h,i)perylene
Concen: 2.041 ng
RT: 17.10 min Scan# 2552
Delta R.T. -0.01 min
Lab File: BF098129.D
Acq: 29 Aug 2017 23:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	31.0	18.6	28.0
138	28.2	25.4	38.0

