

Data Path : Z:\HPCHEM1\BNA F\DATA\BF093017\
 Data File : BF098977.D
 Acq On : 30 Sep 2017 21:58
 Operator : SJ/JU
 Sample : I5547-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-092917

Manual Integrations
 APPROVED

Quant Time: Oct 02 15:09:59 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	128570	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	473158	20.00	ng	0.00
38) Acenaphthene-d10	9.96	164	177479	20.00	ng	0.00
63) Phenanthrene-d10	11.44	188	275521	20.00	ng	0.00
75) Chrysene-d12	14.09	240	242202	20.00	ng	0.00
86) Perylene-d12	15.58	264	168045	20.00	ng	0.00

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System Monitoring Compounds

5) 2-Fluorophenol	5.53	112	144862	17.94	ng	-0.01
7) Phenol-d6	6.53	99	171406	17.20	ng	-0.01
23) Nitrobenzene-d5	7.47	82	90670	12.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	17790	12.25	ng	-0.01
44) 2-Fluorobiphenyl	9.27	172	181774	17.10	ng	-0.01
78) Terphenyl-d14	13.02	244	134469	12.63	ng	-0.01

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Target Compounds

						Qvalue
48) Acenaphthylene	9.82	152	47560	2.713	ng	98
51) Acenaphthene	9.99	154	35209	3.170	ng	98
54) Dibenzofuran	10.16	168	30100	2.036	ng	# 92
57) Fluorene	10.50	166	68474	5.761	ng	100
70) Phenanthrene	11.47	178	408939	27.729	ng	98
71) Anthracene	11.52	178	132486	8.780	ng	98
72) Carbazole	11.67	167	32029	2.167	ng	100
74) Fluoranthene	12.66	202	532724	35.672	ng	99
77) Pyrene	12.89	202	509604	27.593	ng	100
80) Benzo(a)anthracene	14.07	228	250014	17.047	ng	95
82) Chrysene	14.11	228	199795	14.309	ng	98
85) Indeno(1,2,3-cd)pyrene	17.09	276	65000	5.820	ng	98
87) Benzo(b)fluoranthene	15.14	252	189128m	18.305	ng	
88) Benzo(k)fluoranthene	15.16	252	63196m	6.193	ng	
89) Benzo(a)pyrene	15.52	252	132503	13.971	ng	# 96
90) Dibenzo(a,h)anthracene	17.10	278	16961	2.235	ng	# 73
91) Benzo(g,h,i)perylene	17.55	276	61330	8.174	ng	# 93

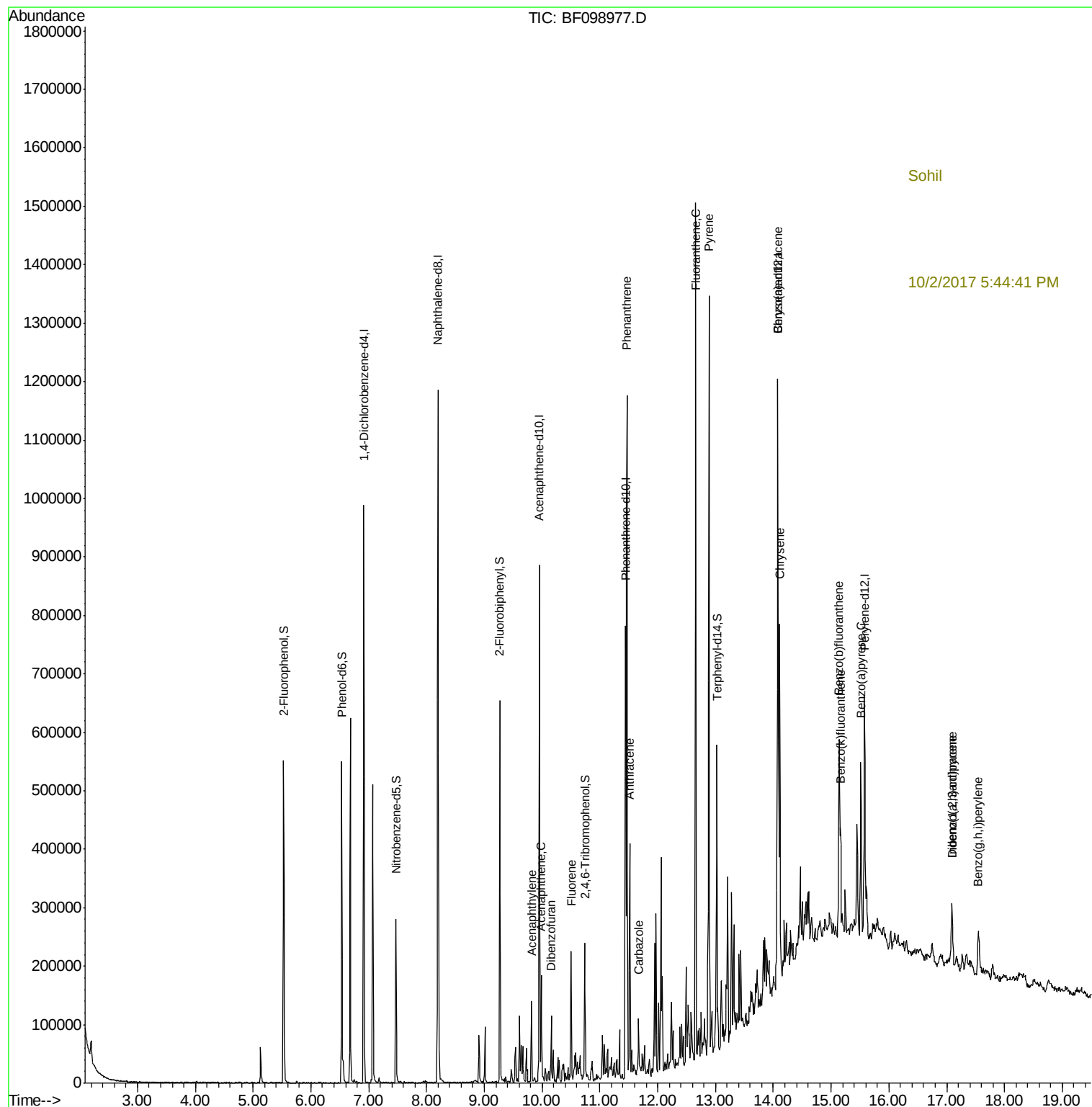
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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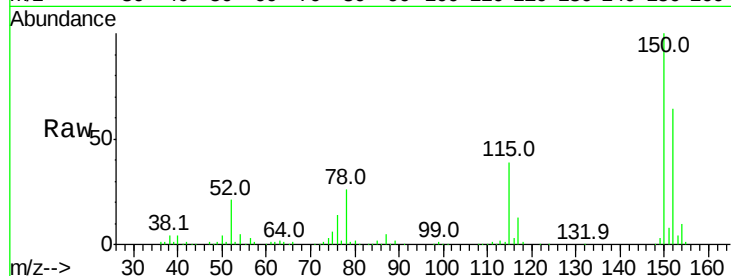
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

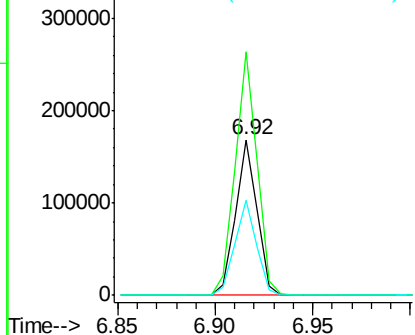
Instrument :
BNA_F
ClientSampleId :
CL-02-092917

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.6	186.8
115	61.3	50.1	75.1

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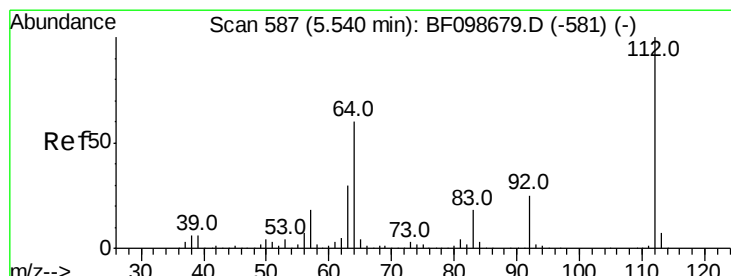
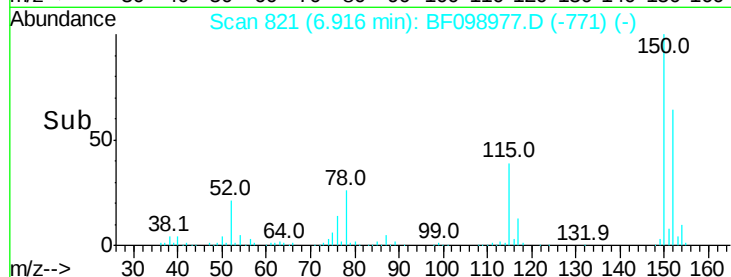


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



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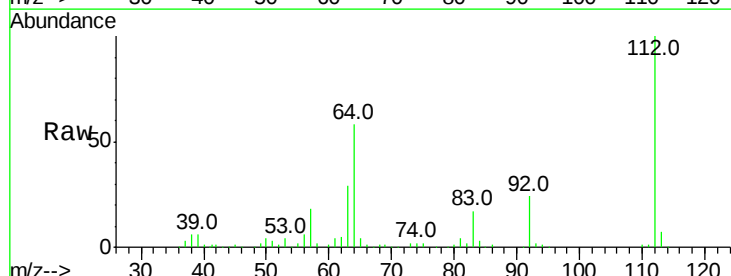
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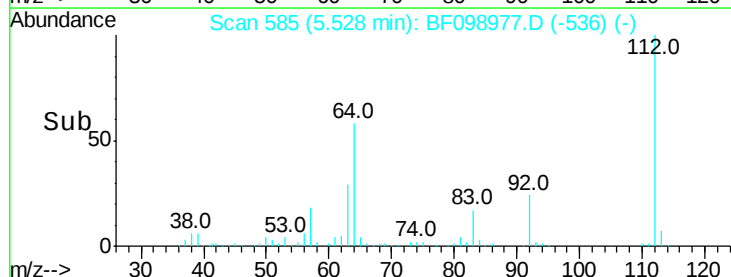
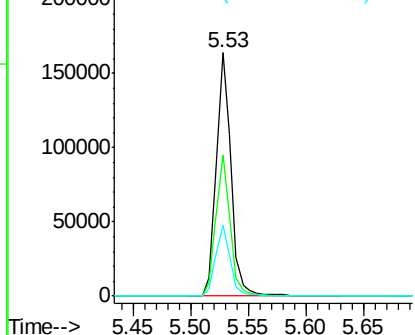
#5

2-Fluorophenol
Concen: 17.936 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.9	71.9
63	29.2	23.7	35.5



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: 17.204 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

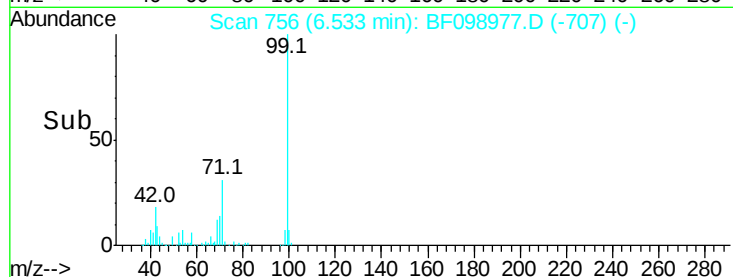
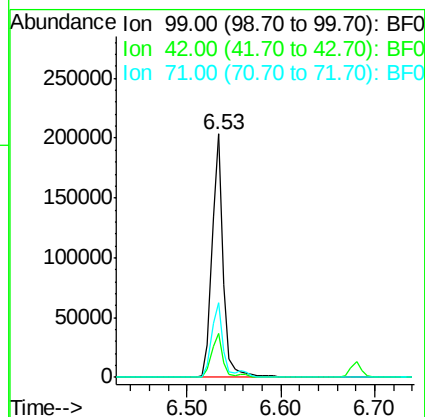
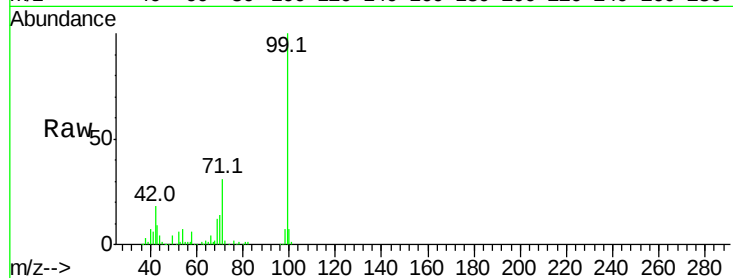
BNA_F

ClientSampleId :

CL-02-092917

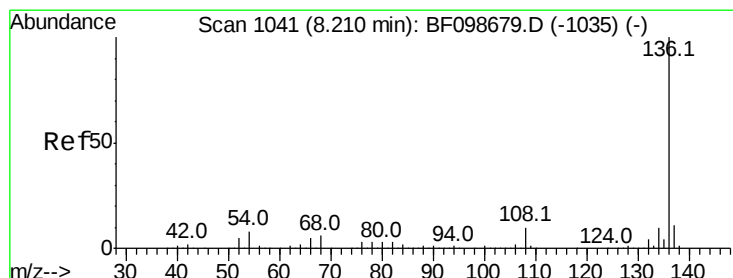
Tot Ion:	99	Resp:	171406
Ion Ratio	Lower	Upper	
99	100		
42	18.0	14.5	21.7
71	30.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

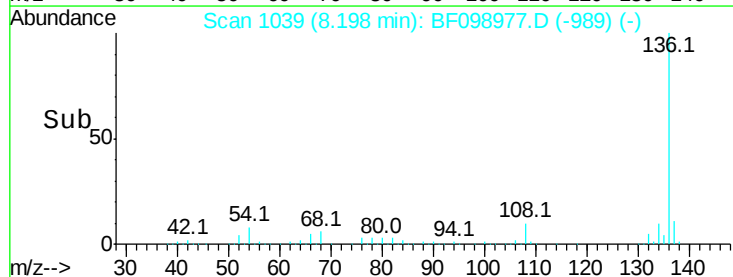
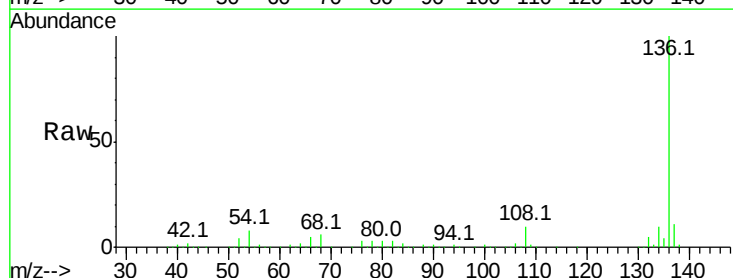
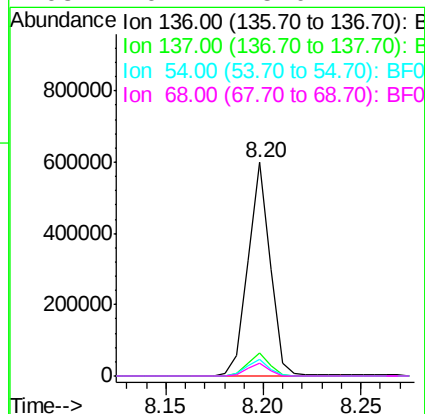
RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF098977.D

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Tgt Ion:	136	Resp:	473158
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	7.8	6.6	9.8
68	6.1	5.0	7.4



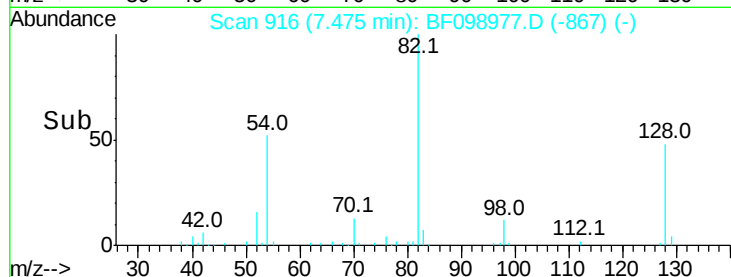
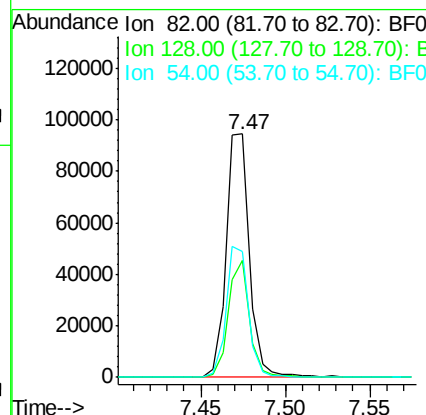
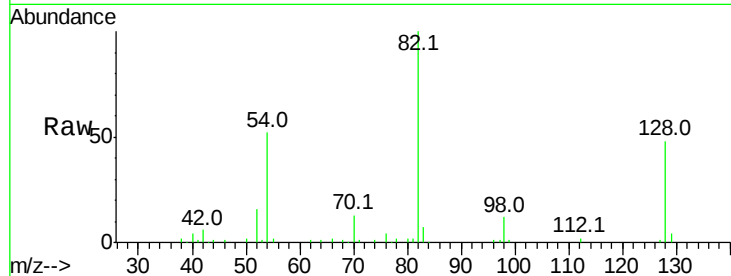


#23
 Nitrobenzene-d5
 Concen: 12.289 ng
 RT: 7.47 min Scan# 916
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-092917

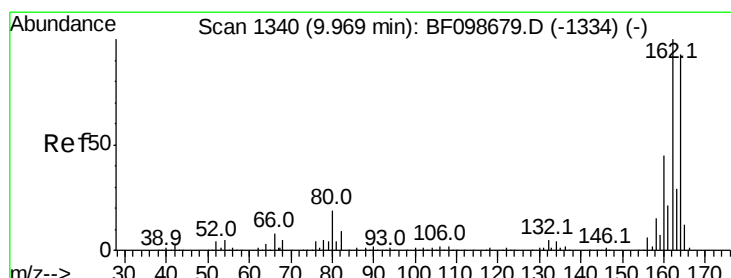
Tot Ion	Ratio	Lower	Upper
82	100		
128	48.0	36.1	54.1
54	51.7	41.4	62.2

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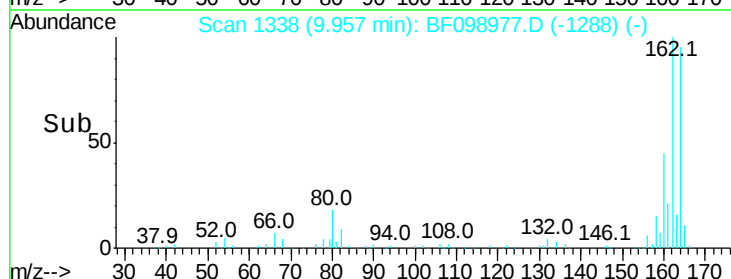
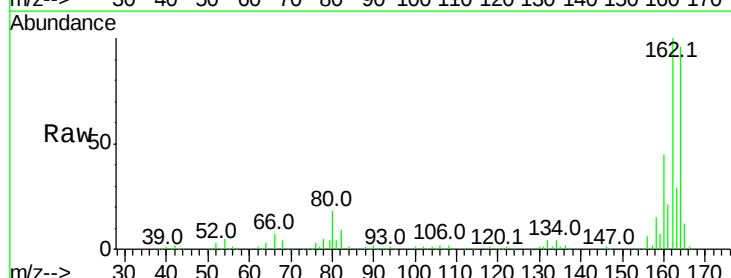
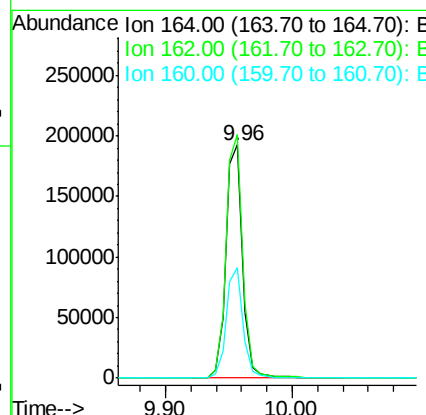
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.96 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	47.3	38.3	57.5



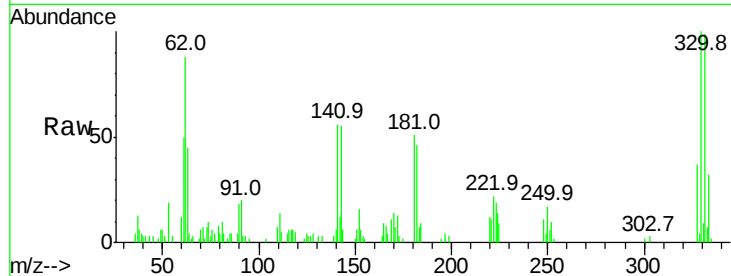


#41
 2,4,6-Tribromophenol
 Concen: 12.250 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

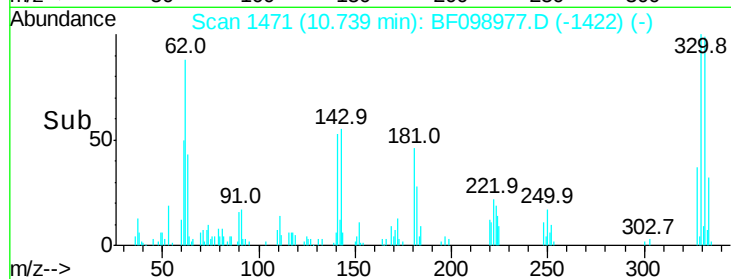
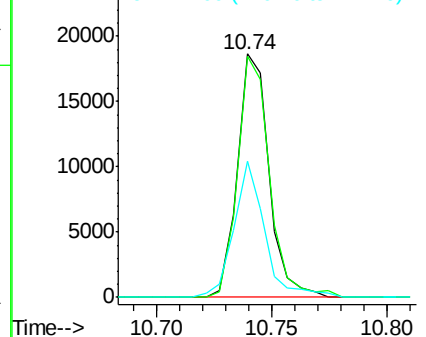
Instrument :
 BNA_F
 ClientSampled :
 CL-02-092917

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.0	115.6
141	54.4	29.9	44.9#

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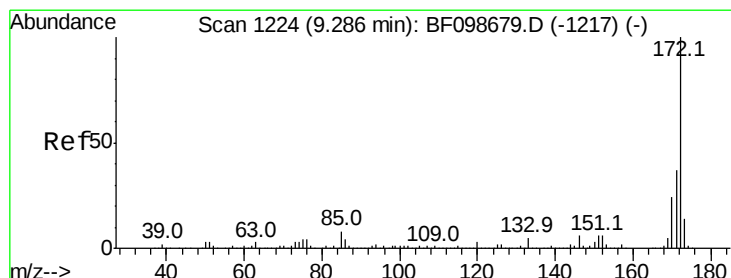


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



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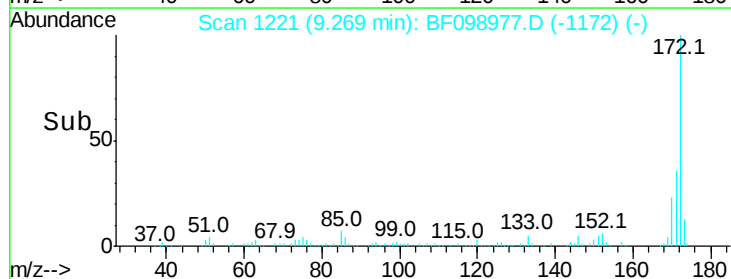
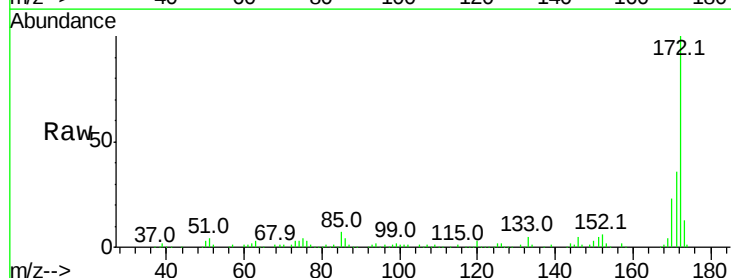
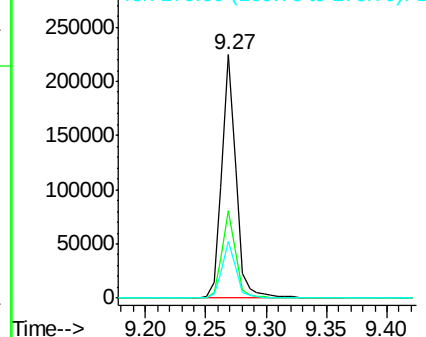
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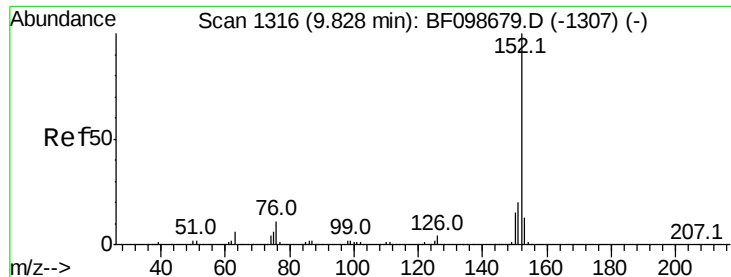


#44
 2-Fluorobiphenyl
 Concen: 17.098 ng
 RT: 9.27 min Scan# 1221
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	23.3	19.6	29.4

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





#48

Acenaphthylene

Concen: 2.713 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

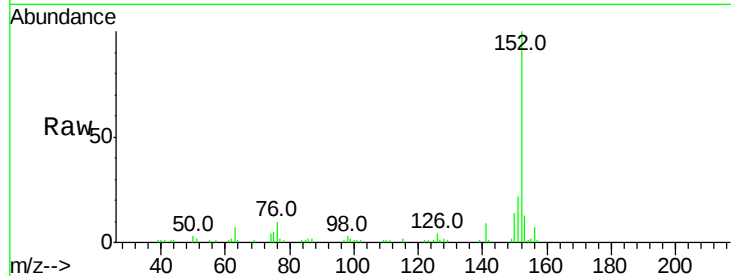
BNA_F

ClientSampleId :

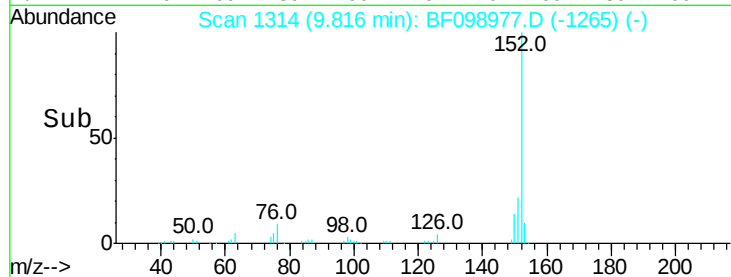
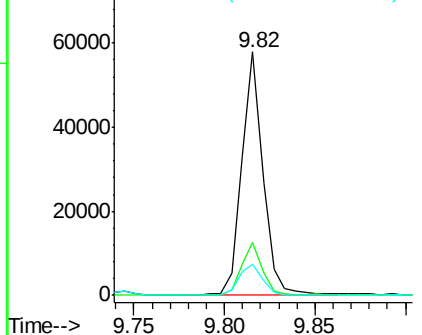
CL-02-092917

Tot Ion:	152	Resp:	47560
Ion Ratio	Lower	Upper	
152	100		
151	21.8	16.3	24.5
153	12.7	10.7	16.1

Manual Integrations
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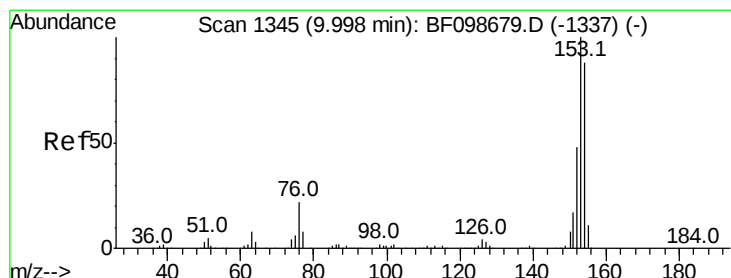


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



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#51

Acenaphthene

Concen: 3.170 ng

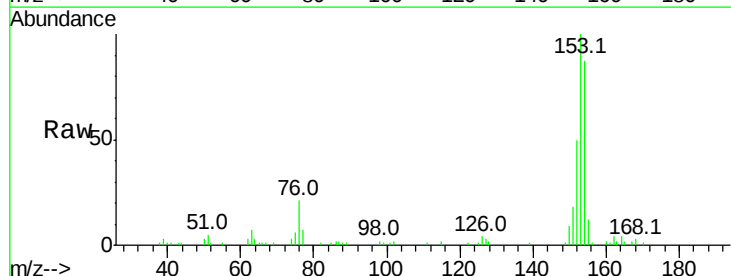
RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

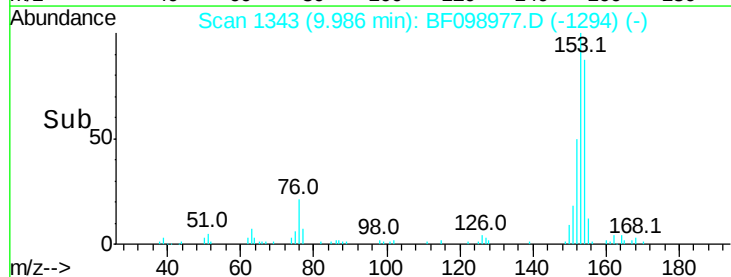
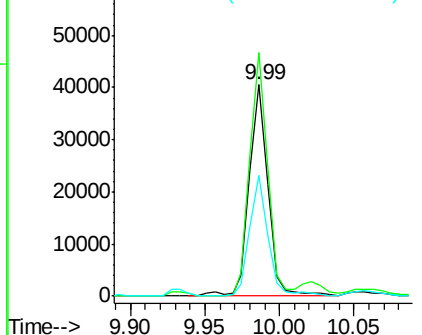
Lab File: BF098977.D

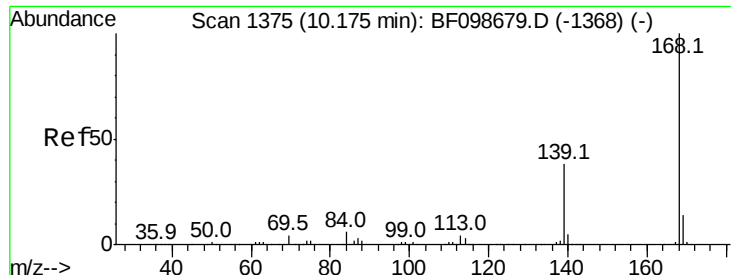
Acq: 30 Sep 2017 21:58

Tgt Ion:	154	Resp:	35209
Ion Ratio	Lower	Upper	
154	100		
153	115.3	91.2	136.8
152	57.2	43.8	65.8



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

Dibenzenofuran

Concen: 2.036 ng

RT: 10.16 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

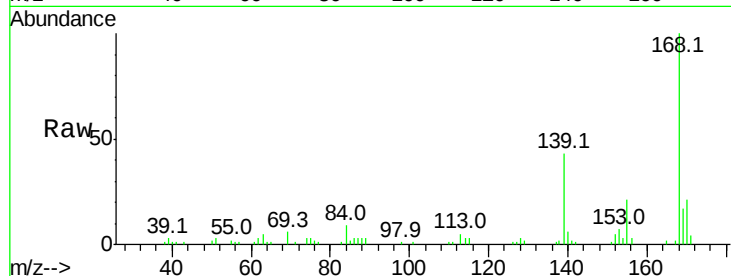
BNA_F

ClientSampled :

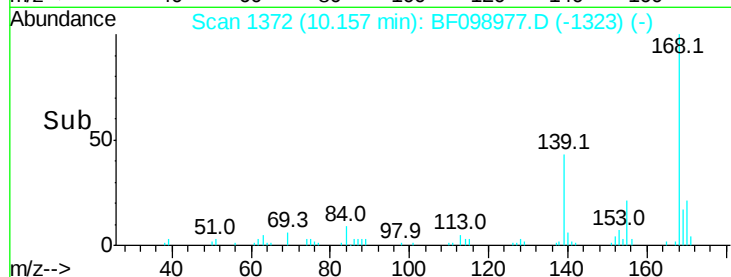
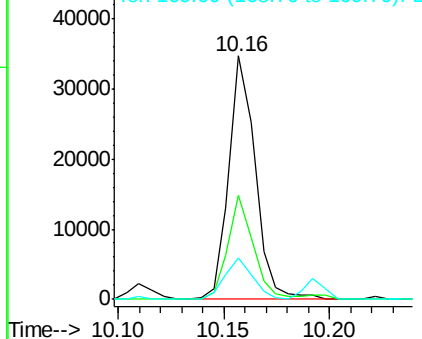
CL-02-092917

Tot Ion:168	Resp:	30100
Ion Ratio	Lower	Upper
168	100	
139	42.5	30.1 45.1
169	16.8	10.9 16.3#

Manual Integrations
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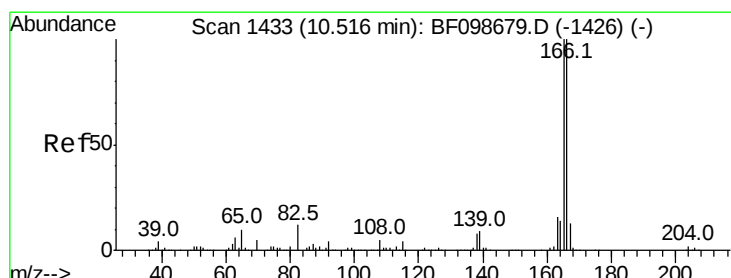


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



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#57

Fluorene

Concen: 5.761 ng

RT: 10.50 min Scan# 1431

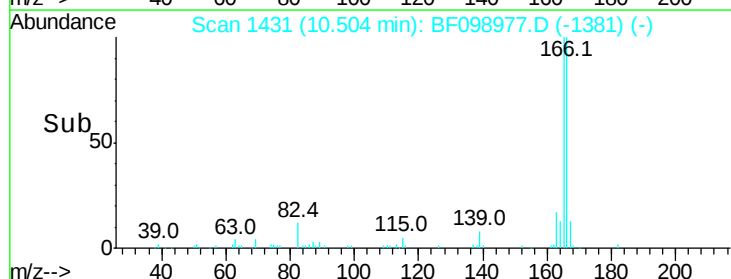
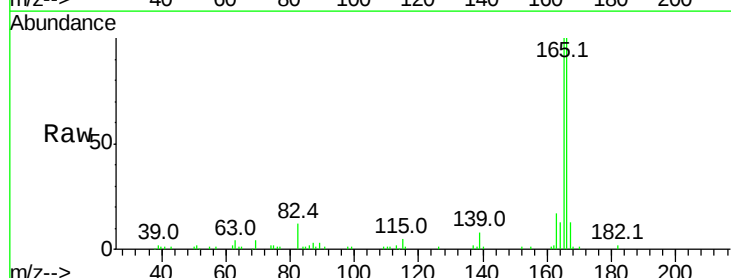
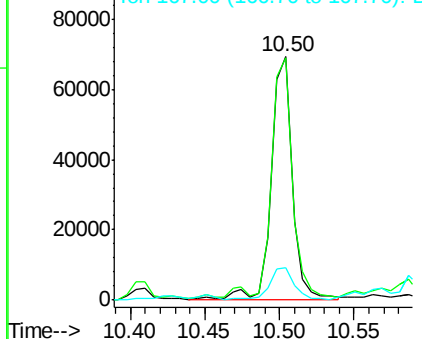
Delta R.T. -0.01 min

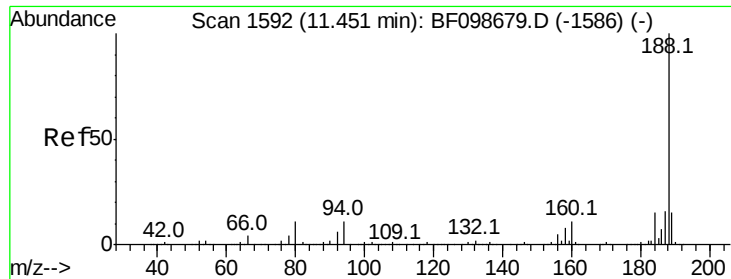
Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Tgt Ion:166	Resp:	68474
Ion Ratio	Lower	Upper
166	100	
165	99.7	79.8 119.8
167	13.4	10.6 16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



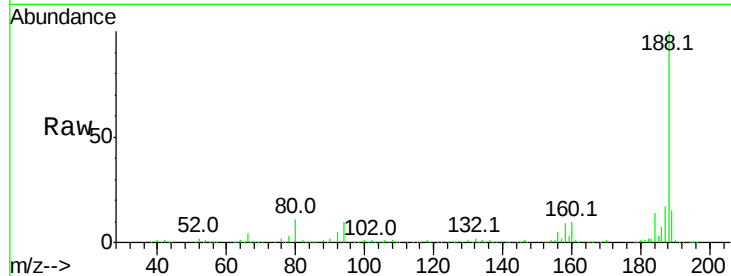


#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.44 min Scan# 1591
Delta R.T. -0.00 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

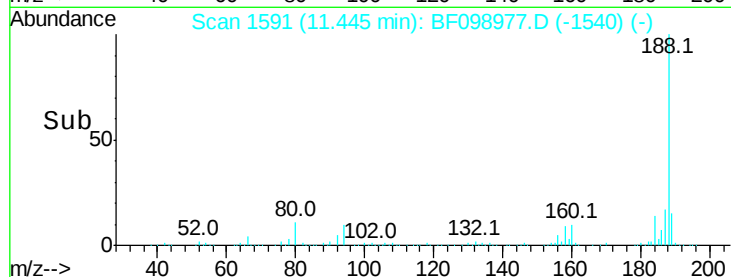
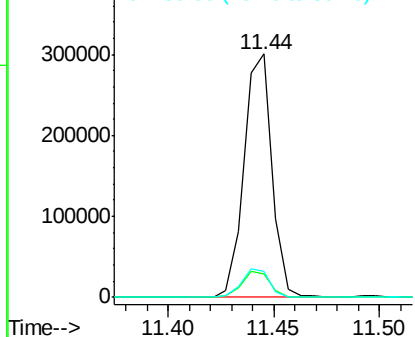
Instrument :
BNA_F
ClientSampleId :
CL-02-092917

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.8	8.5	12.7
80	10.8	9.2	13.8

Manual Integrations
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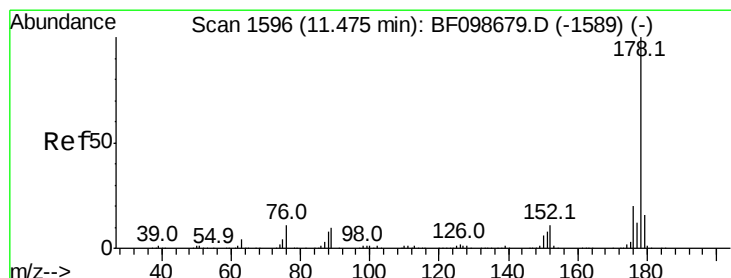


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



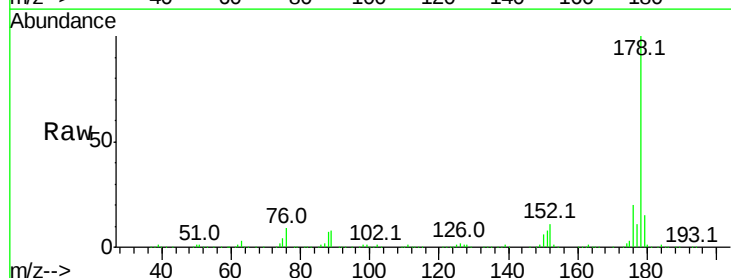
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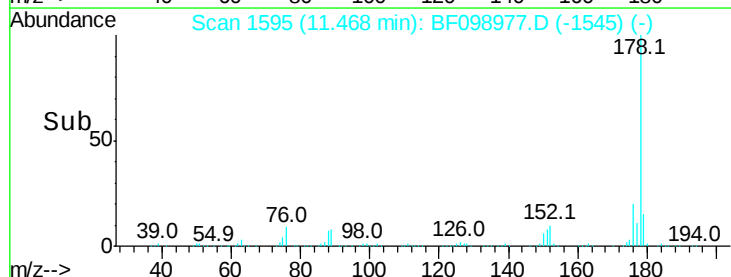
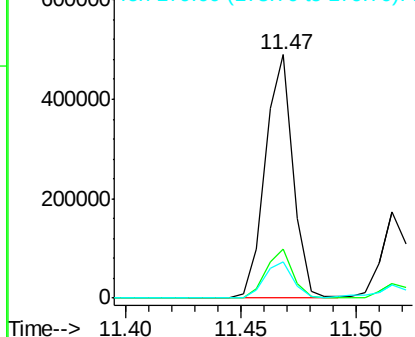


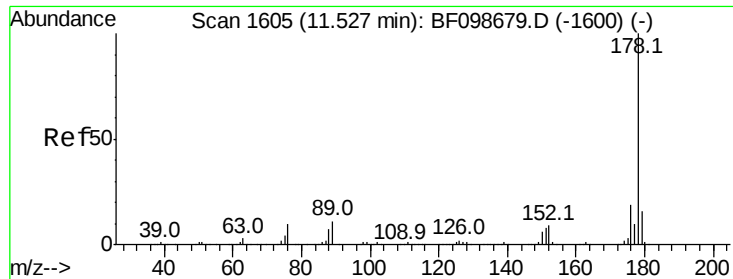
#70
Phenanthrene
Concen: 27.729 ng
RT: 11.47 min Scan# 1595
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.9	15.8	23.8
179	15.0	13.0	19.6



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



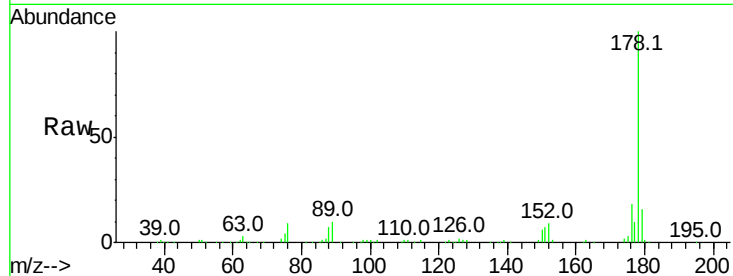


#71
 Anthracene
 Concen: 8.780 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

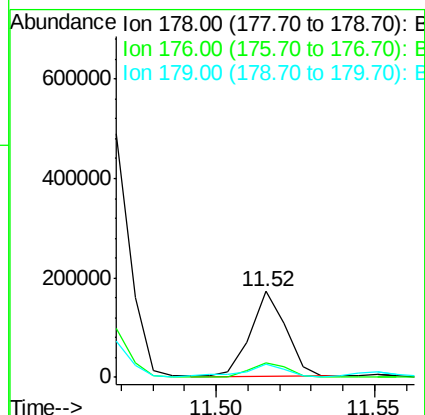
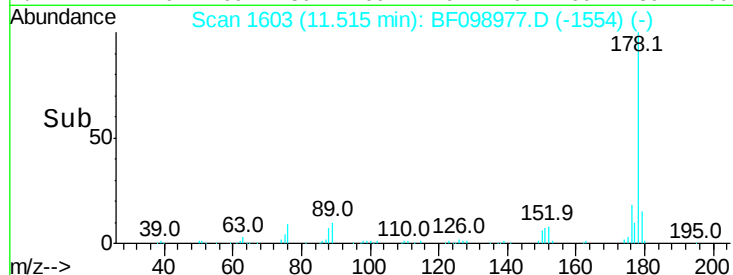
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-092917

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.4	23.2
179	15.5	12.6	19.0

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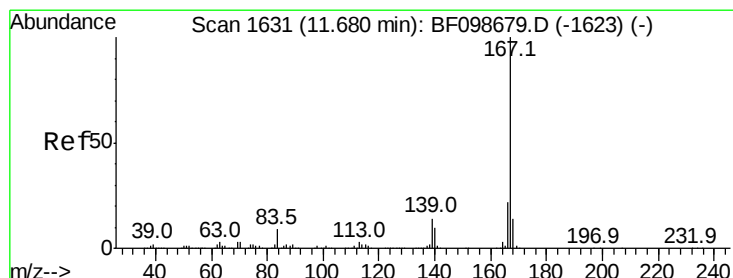


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



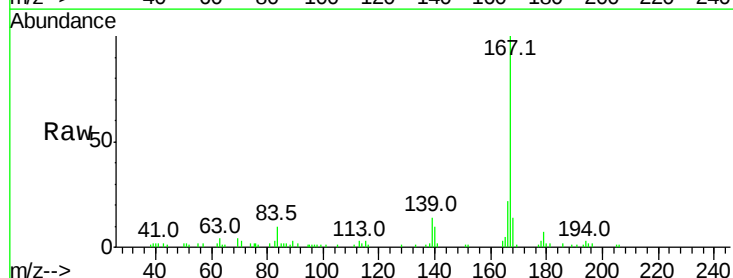
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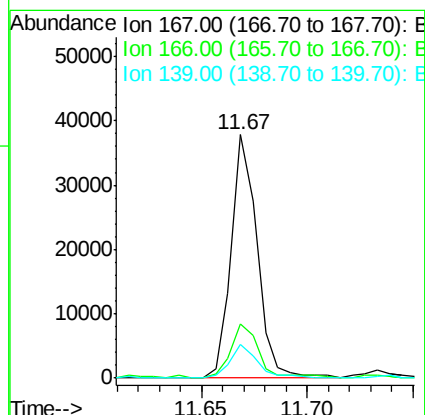
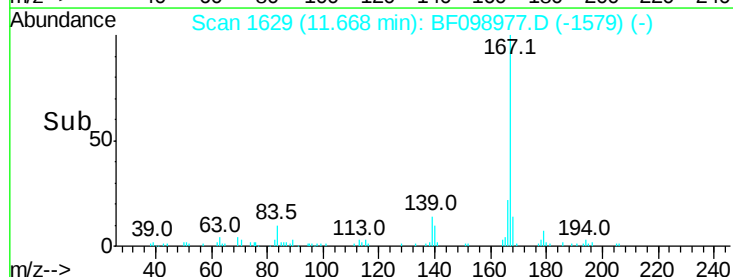


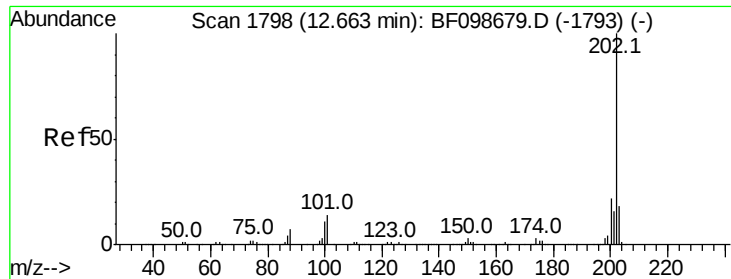
#72
 Carbazole
 Concen: 2.167 ng
 RT: 11.67 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.6	26.4
139	13.8	10.9	16.3



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: 35.672 ng

RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

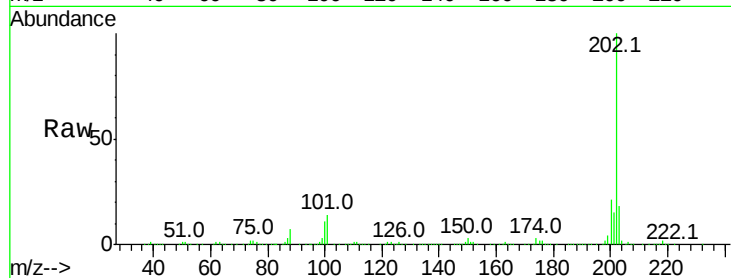
BNA_F

ClientSampleId :

CL-02-092917

Tot Ion	Ratio	Resp	Lower	Upper
202	100	532724		
101	14.0	0.0	34.1	
203	17.8	0.0	38.1	

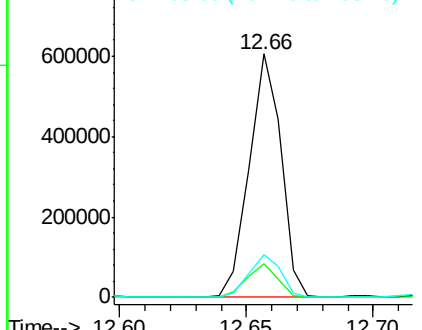
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Abundance Ion 202.00 (201.70 to 202.70): E

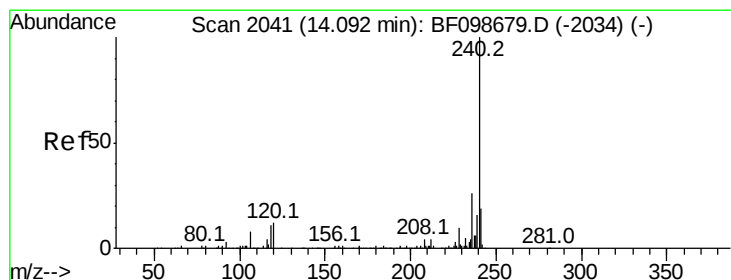
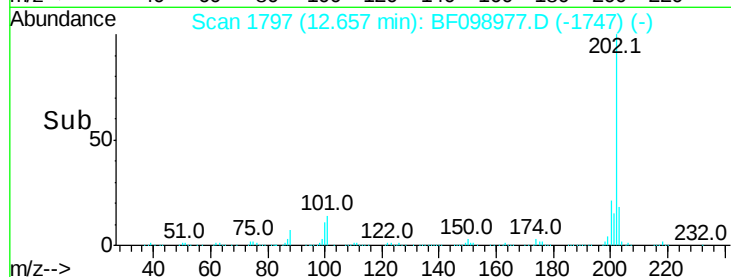
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



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#75

Chrysene-d12

Concen: 20.000 ng

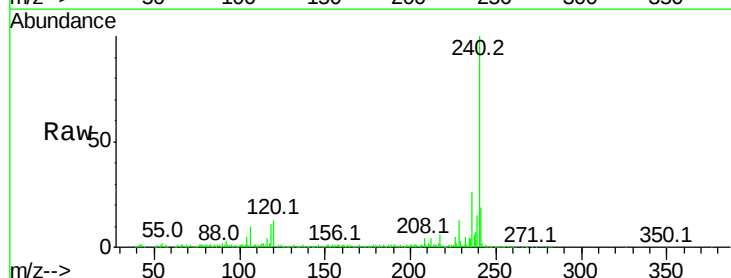
RT: 14.09 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

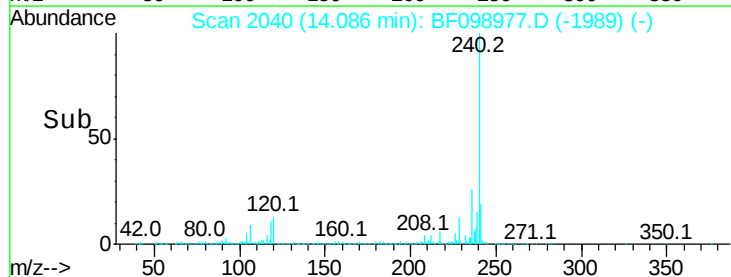
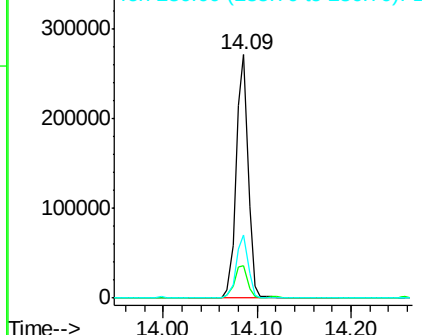
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	242202		
120	13.2	9.5	14.3	
236	26.0	20.7	31.1	

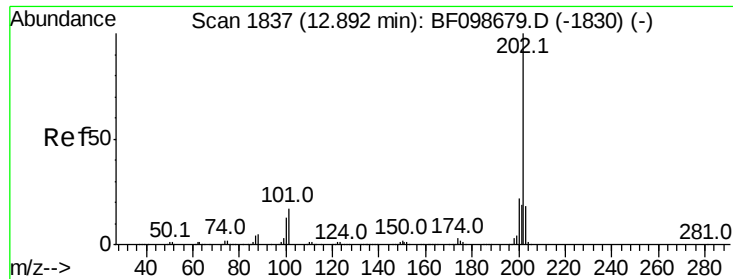


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.593 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

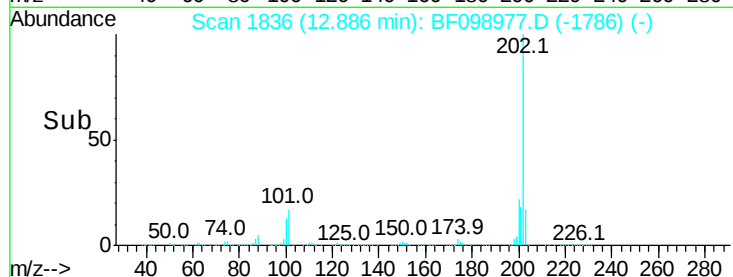
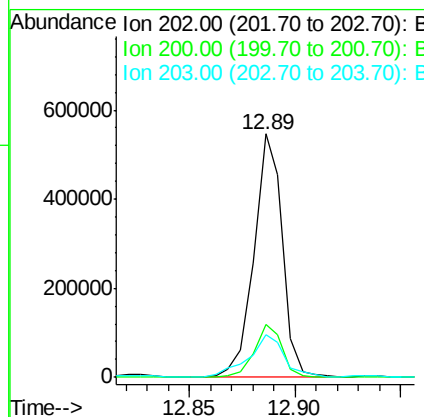
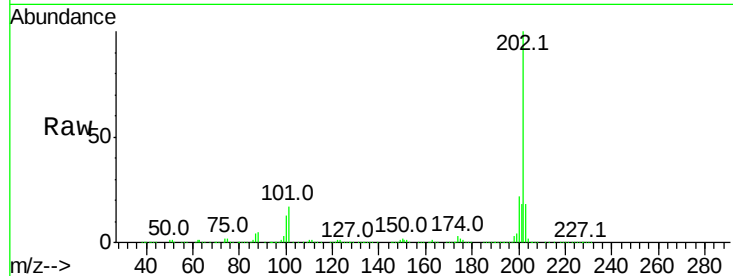
BNA_F

ClientSampleId :

CL-02-092917

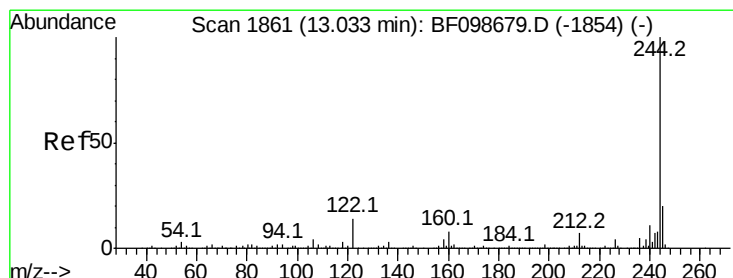
Tot Ion:202	Resp:	509604
Ion Ratio	Lower	Upper
202 100		
200 21.8	17.4	26.2
203 17.5	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 12.626 ng

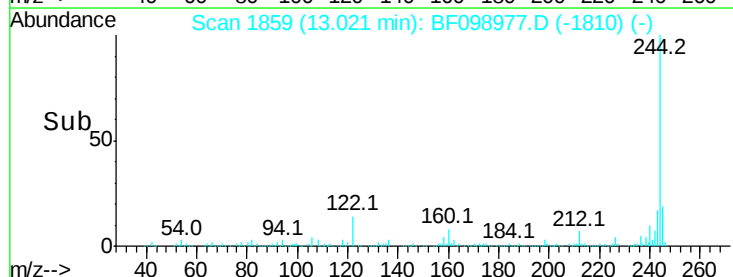
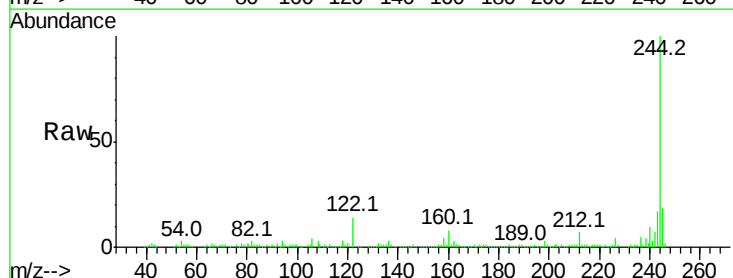
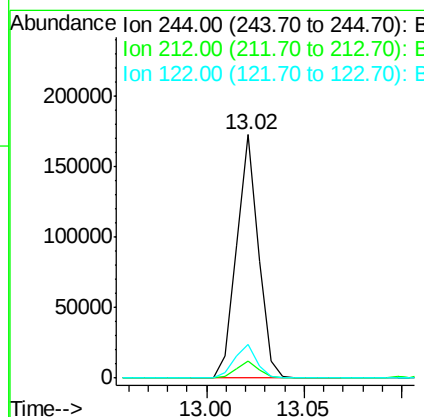
RT: 13.02 min Scan# 1859

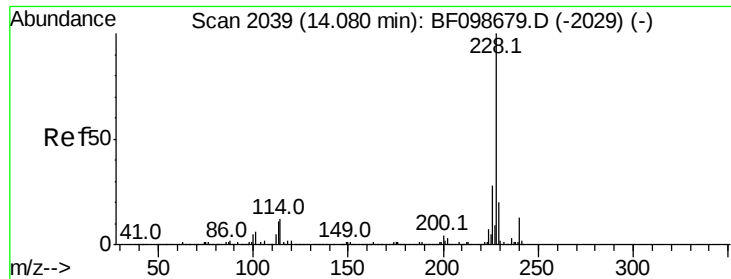
Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Tgt Ion:244	Resp:	134469
Ion Ratio	Lower	Upper
244 100		
212 6.9	5.4	8.0
122 13.6	11.0	16.4



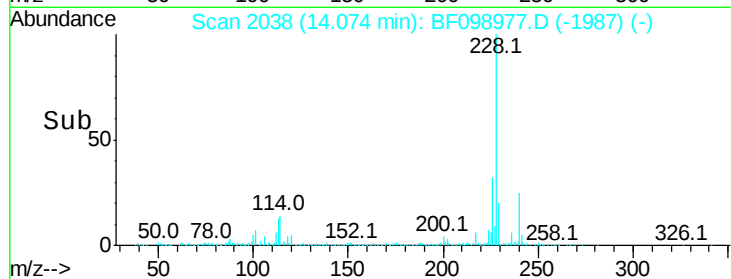
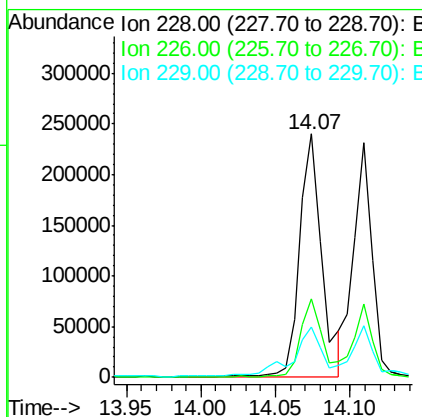
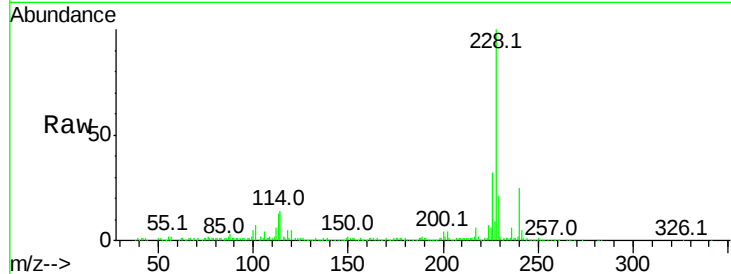


#80
Benzo(a)anthracene
Concen: 17.047 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Instrument :
BNA_F
ClientSampled :
CL-02-092917

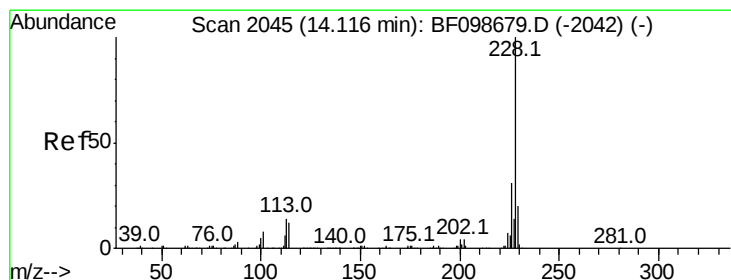
Tot Ion	Ratio	Resp	Lower	Upper
228	100	250014		
226	32.2		22.6	33.8
229	20.8		15.8	23.6

Manual Integrations
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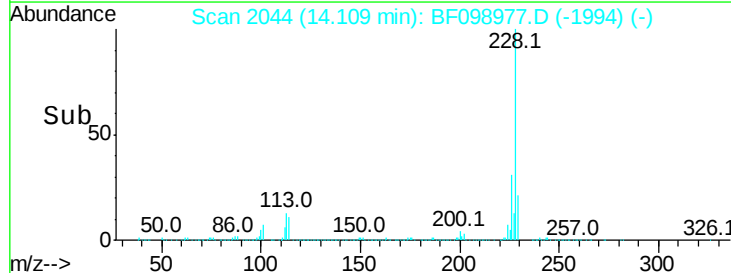
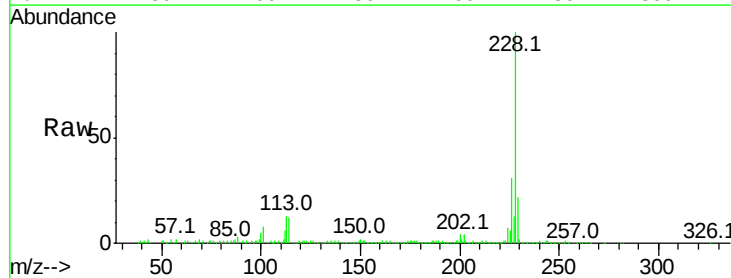
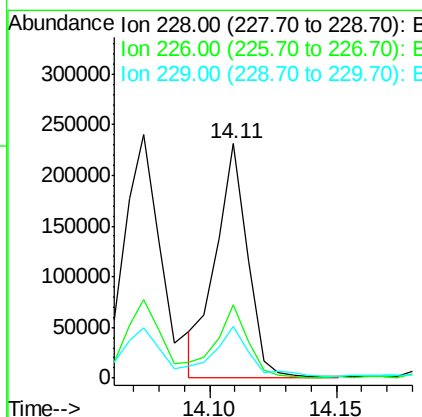
Sohil

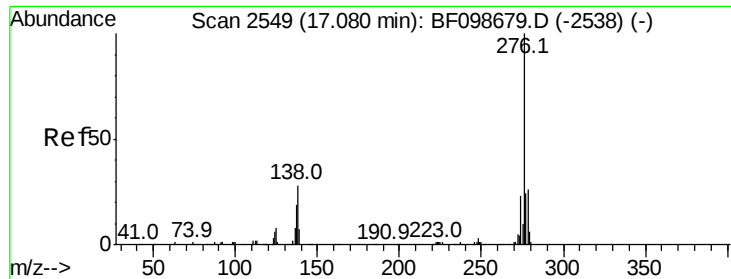
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#82
Chrysene
Concen: 14.309 ng
RT: 14.11 min Scan# 2044
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	199795		
226	31.3		25.0	37.6
229	22.1		16.2	24.4



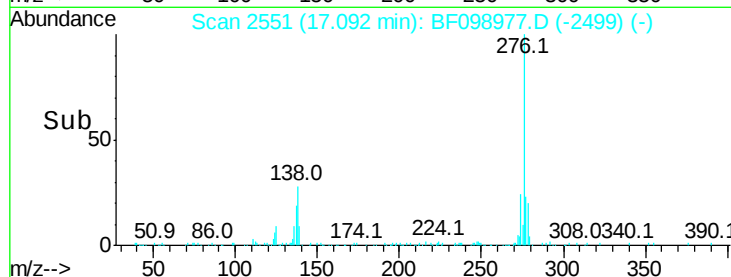
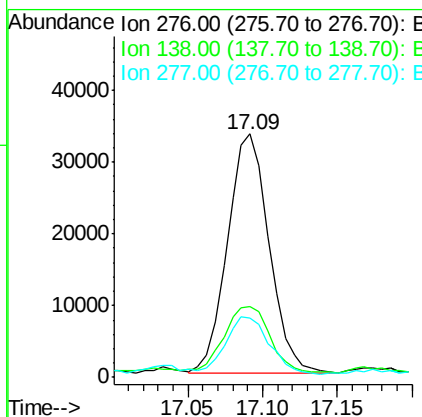
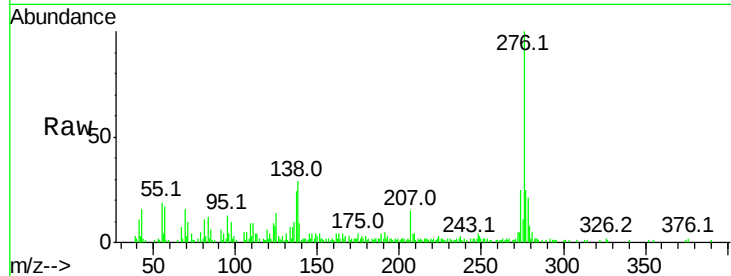


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.820 ng
 RT: 17.09 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-092917

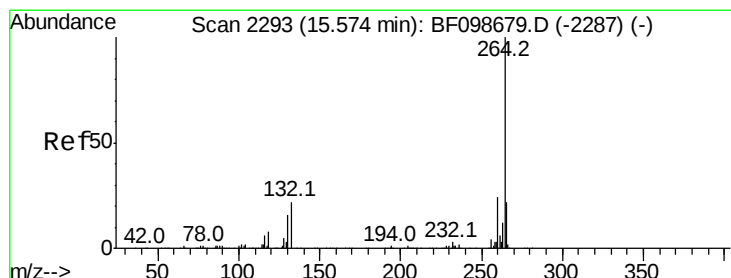
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.4	25.0	37.6
277	24.7	20.1	30.1

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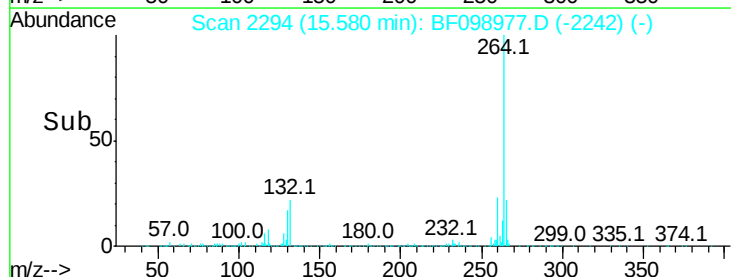
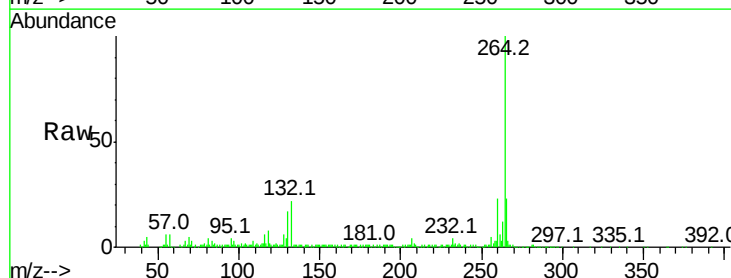
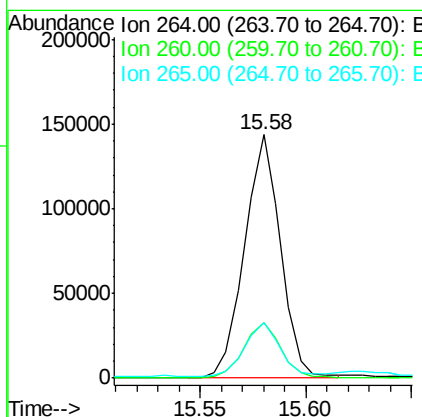
Sohil

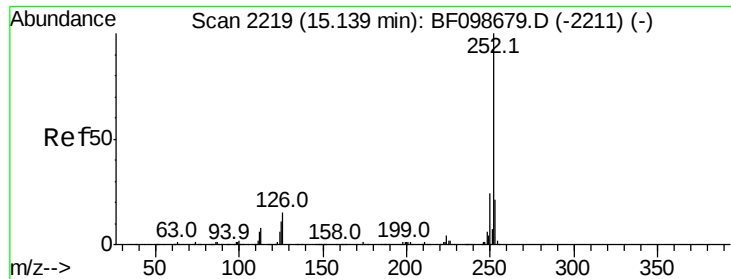
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.58 min Scan# 2294
 Delta R.T. 0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.2	28.8
265	22.5	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 18.305 ng m

RT: 15.14 min Scan# 2219

Delta R.T. -0.00 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

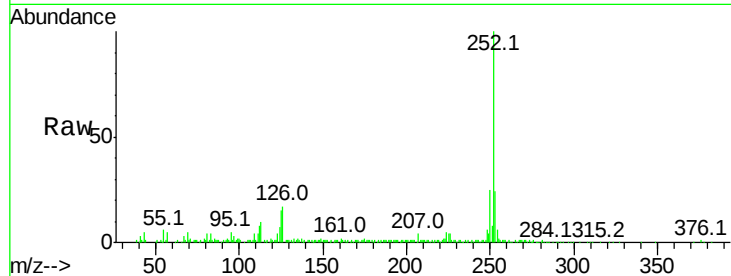
BNA_F

ClientSampleId :

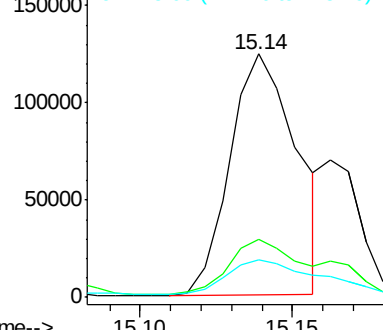
CL-02-092917

Tot Ion:	252	Resp:	189128
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.0	25.6
125	15.3	9.0	13.6

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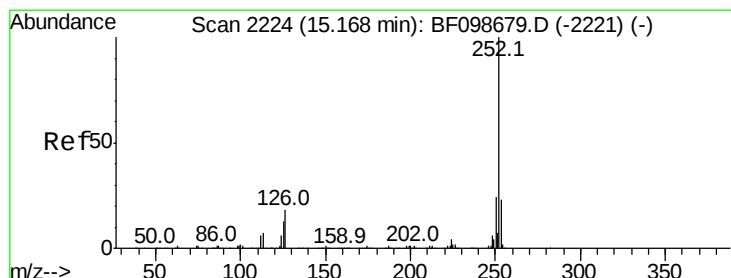
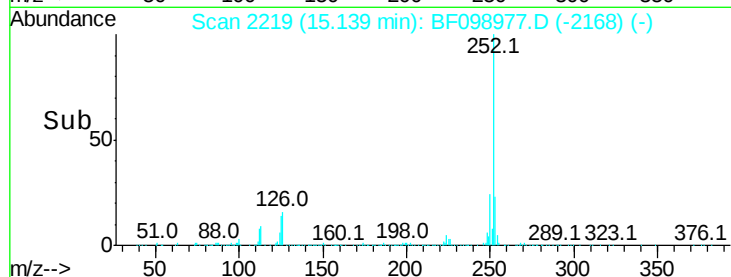


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



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#88

Benzo(k)fluoranthene

Concen: 6.193 ng m

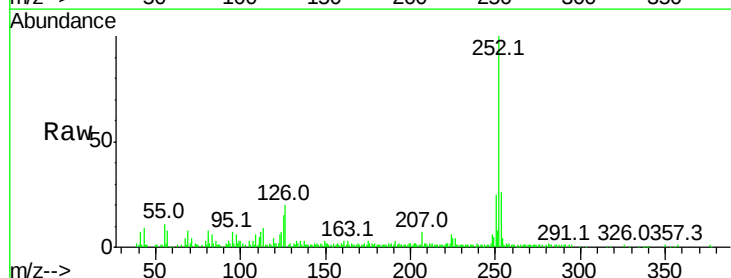
RT: 15.16 min Scan# 2223

Delta R.T. -0.01 min

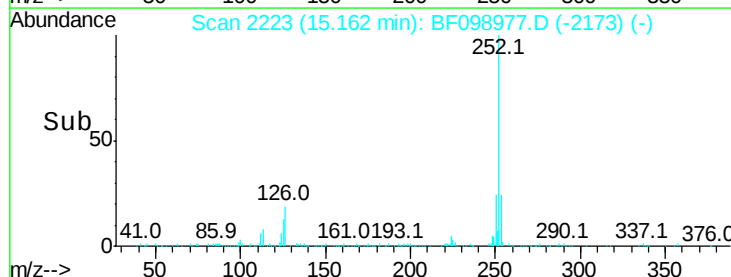
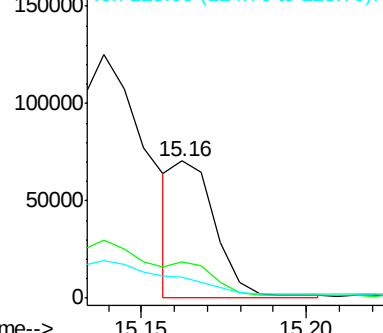
Lab File: BF098977.D

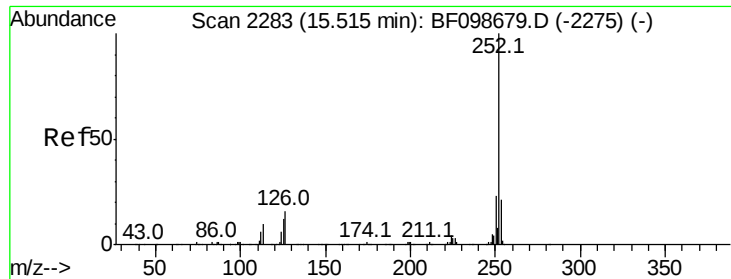
Acq: 30 Sep 2017 21:58

Tgt Ion:	252	Resp:	63196
Ion Ratio	Lower	Upper	
252	100		
253	26.1	17.9	26.9
125	15.2	10.2	15.2



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



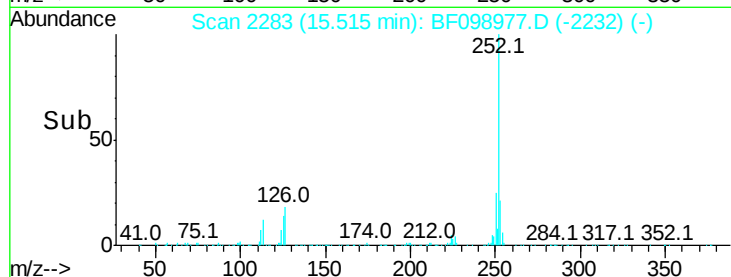
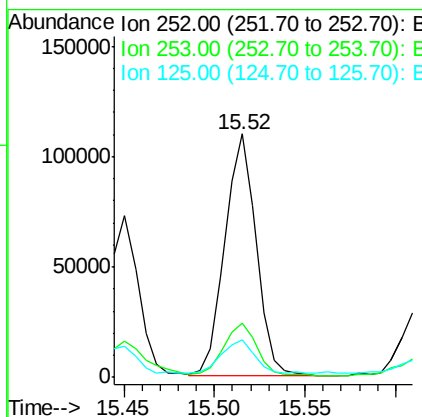
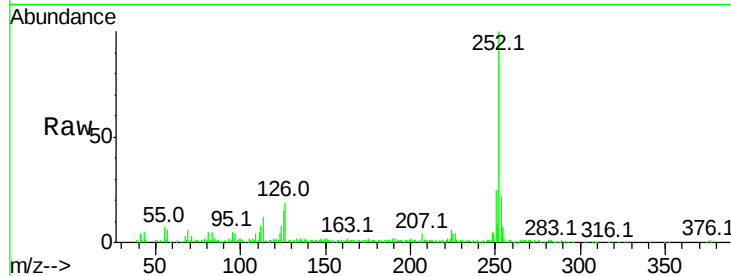


#89
Benzo(a)pyrene
Concen: 13.971 ng
RT: 15.52 min Scan# 2283
Delta R.T. -0.00 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Instrument :
BNA_F
ClientSampleId :
CL-02-092917

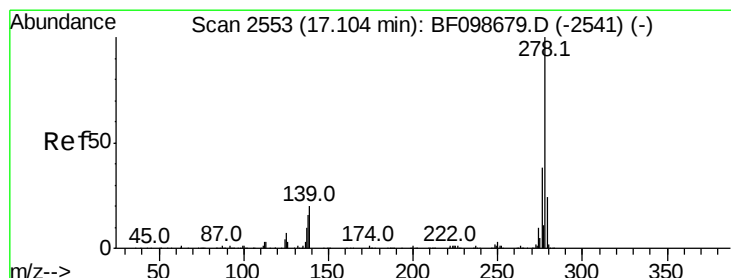
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	15.4	9.8	14.6

Manual Integrations
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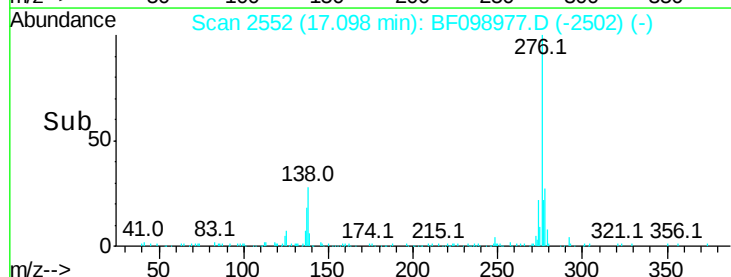
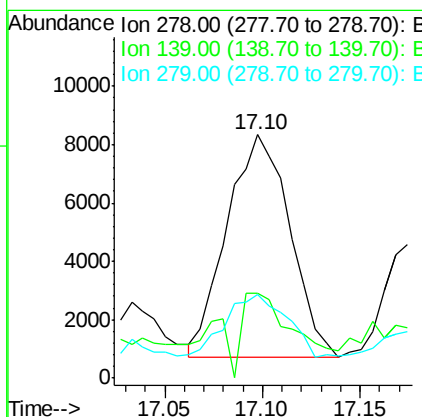
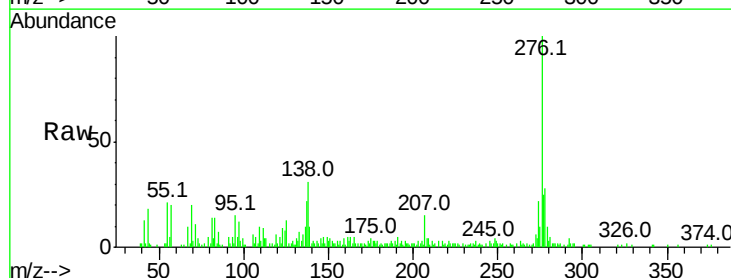
Sohil

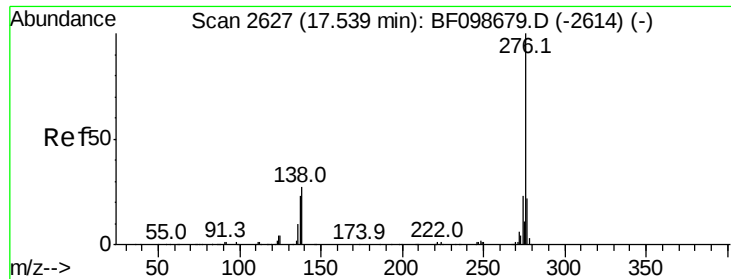
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#90
Dibenzo(a,h)anthracene
Concen: 2.235 ng
RT: 17.10 min Scan# 2552
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
278	100		
139	35.1	15.9	23.9
279	34.4	19.0	28.4



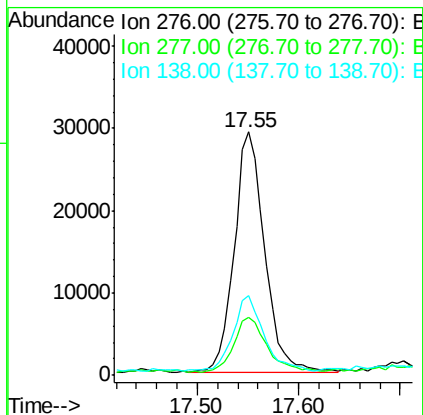
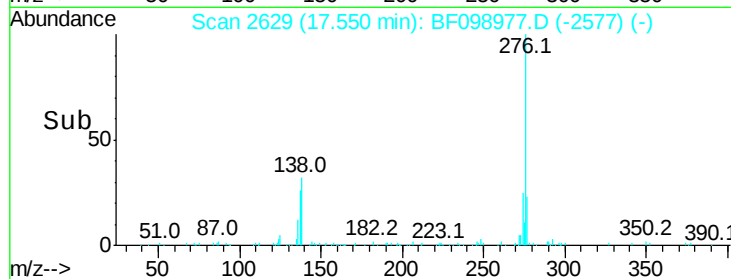
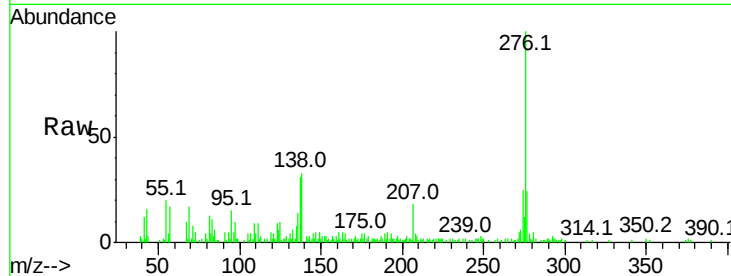


#91
 Benzo(a,h,i)perylene
 Concen: 8.174 ng
 RT: 17.55 min Scan# 2629
 Delta R.T. 0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-092917

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	32.8	21.8	32.8

Manual Integrations
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