

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
 Data File : BF078960.D
 Acq On : 6 May 2015 15:08
 Operator : TP/IZ
 Sample : G2116-08 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-54S

Manual Integrations
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Quant Time: May 07 01:44:44 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 07 00:45:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	84076	20.00	ng	0.00
21) Naphthalene-d8	8.92	136	348193	20.00	ng	0.00
38) Acenaphthene-d10	11.10	164	162276	20.00	ng	0.00
63) Phenanthrene-d10	12.95	188	326647	20.00	ng	0.00
75) Chrysene-d12	16.29	240	342299	20.00	ng	-0.02
86) Perylene-d12	18.16	264	386884	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	225841	46.24	ng	0.01
7) Phenol-d6	6.89	99	300146	46.49	ng	0.00
23) Nitrobenzene-d5	8.03	82	177814	29.35	ng	0.00
41) 2,4,6-Tribromophenol	12.08	330	83850	47.76	ng	0.00
44) 2-Fluorobiphenyl	10.27	172	345184	29.64	ng	0.00
78) Terphenyl-d14	14.95	244	397159	27.78	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.95	128	135729	8.18	ng	99
37) 2-Methylnaphthalene	9.80	142	43256	3.76	ng	98
48) Acenaphthylene	10.92	152	71648	4.34	ng	98
51) Acenaphthene	11.14	154	85719	8.70	ng	99
54) Dibenzofuran	11.36	168	91861	6.45	ng	96
57) Fluorene	11.78	166	90238	7.72	ng	99
70) Phenanthrene	12.98	178	1212464	66.35	ng	99
71) Anthracene	13.04	178	289966	16.17	ng	99
72) Carbazole	13.25	167	141060	8.26	ng	99
74) Fluoranthene	14.46	202	1334566	70.09	ng	99
77) Pyrene	14.74	202	1215856	61.64	ng	97
80) Benzo(a)anthracene	16.27	228	603818	32.21	ng	96
82) Chrysene	16.32	228	526299	29.19	ng	97
85) Indeno(1,2,3-cd)pyrene	19.67	276	407410	17.74	ng	# 100
87) Benzo(b)fluoranthene	17.68	252	696497m	32.89	ng	
88) Benzo(k)fluoranthene	17.69	252	286857m	13.99	ng	
89) Benzo(a)pyrene	18.09	252	559933	28.72	ng	95
90) Dibenzo(a,h)anthracene	19.69	278	76684	3.70	ng	# 92
91) Benzo(a,h,i)perylene	20.13	276	391890	18.87	ng	99

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

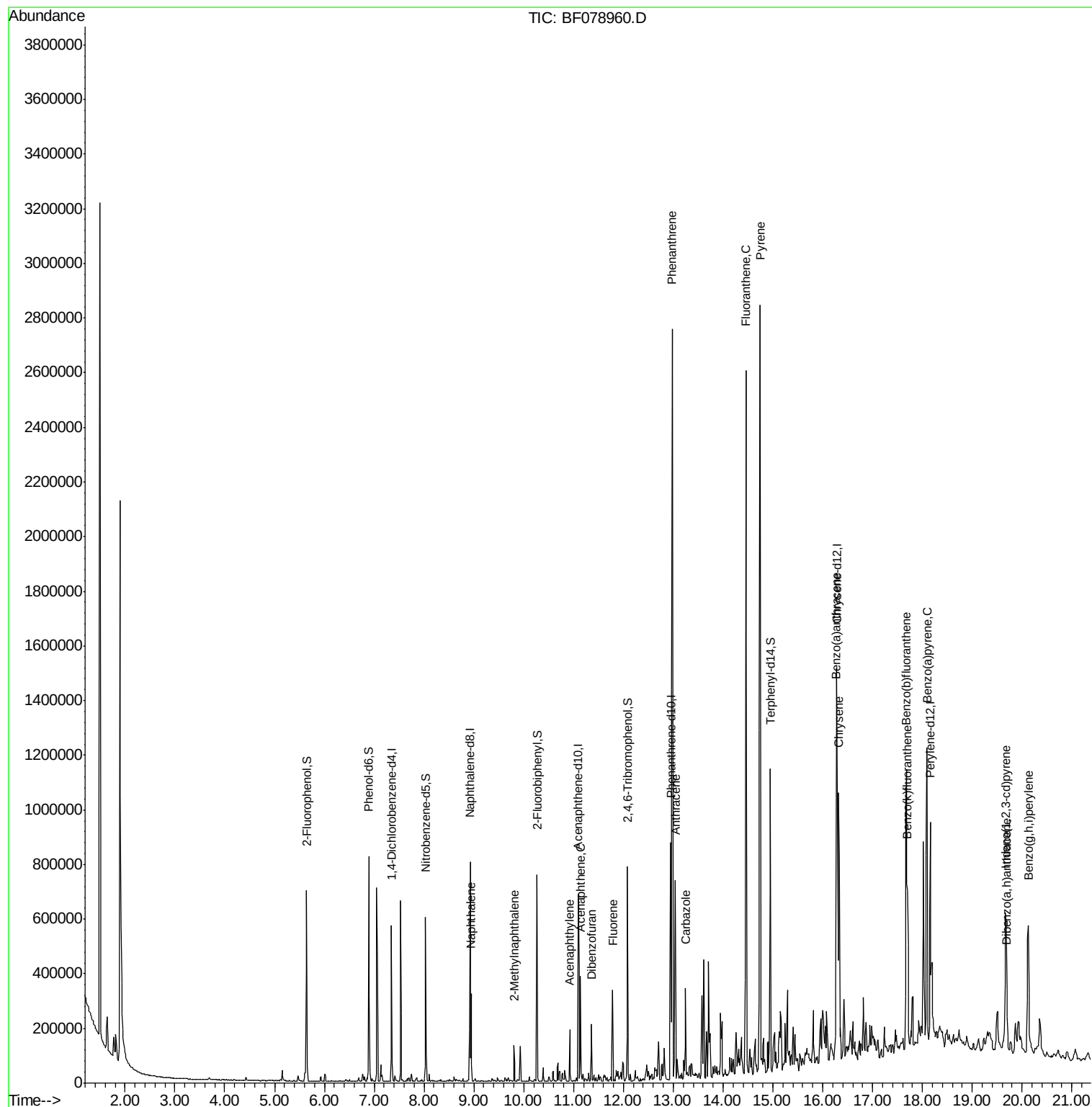
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078960.D
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ALS Vial : 10 Sample Multiplier: 1

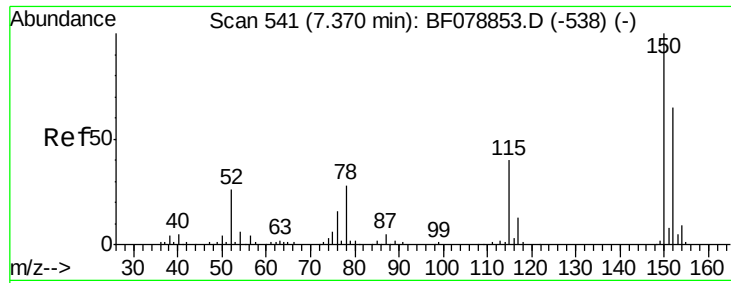
Instrument :
BNA_F
ClientSampled :
SB-54S

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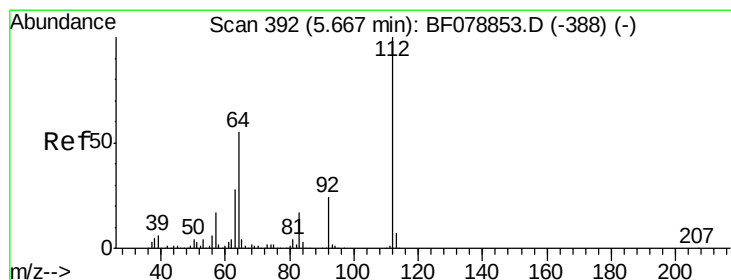
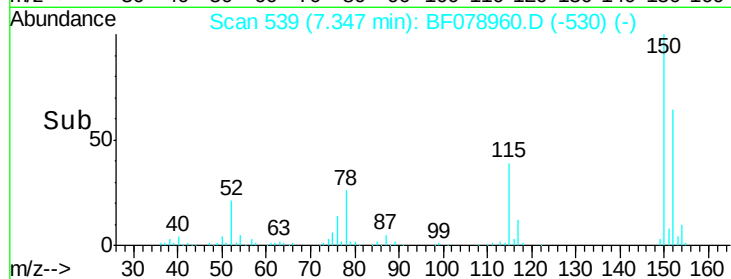
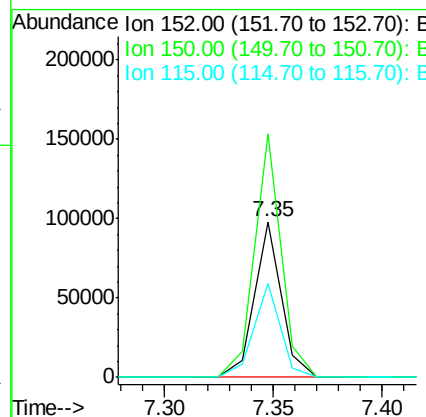
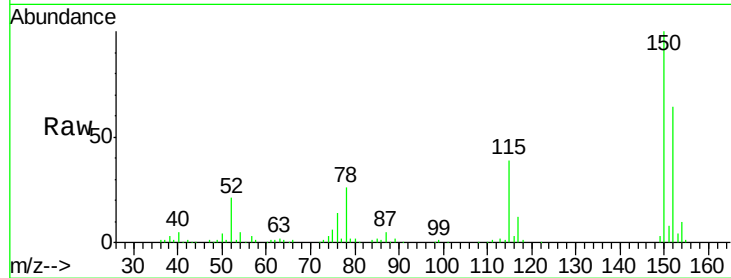
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.35 min Scan# 539
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-54S

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	122.0	183.0
115	60.6	46.3	69.5

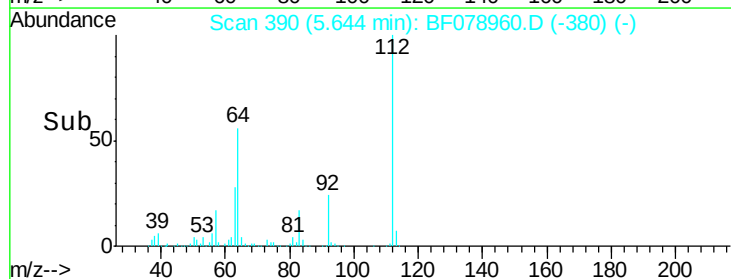
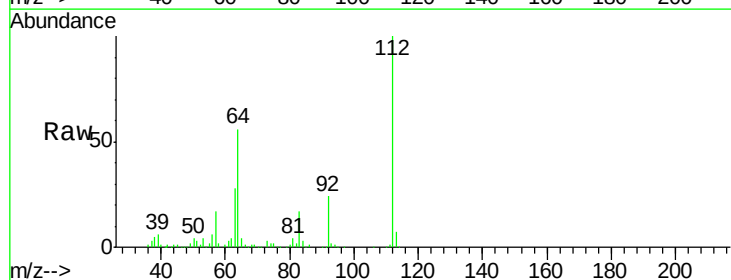
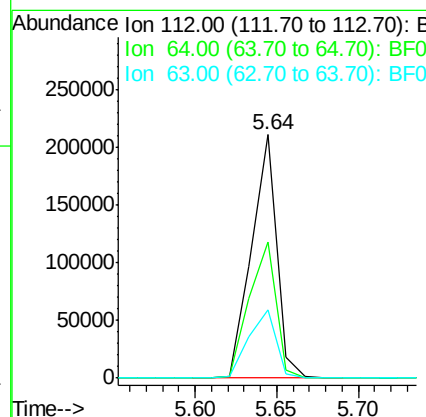
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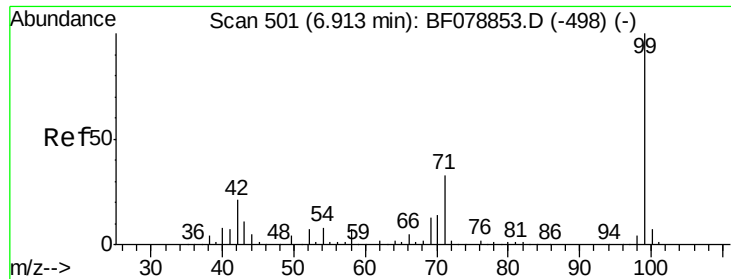
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#5
 2-Fluorophenol
 Concen: 46.24 ng
 RT: 5.64 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	53.5	80.3
63	28.0	27.5	41.3





#7

Phenol-d6

Concen: 46.49 ng

RT: 6.89 min Scan# 499

Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

Instrument :

BNA_F

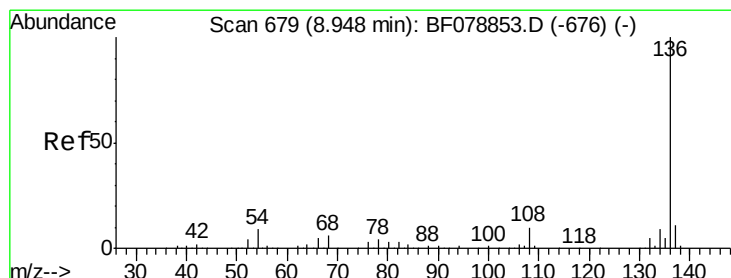
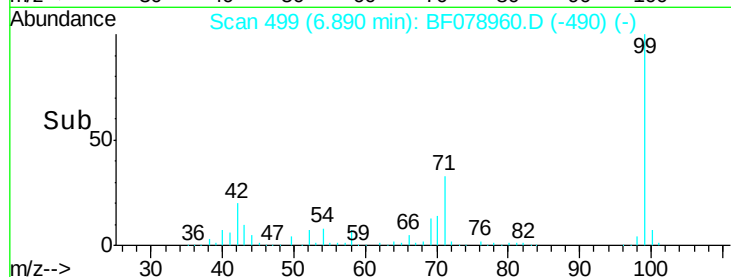
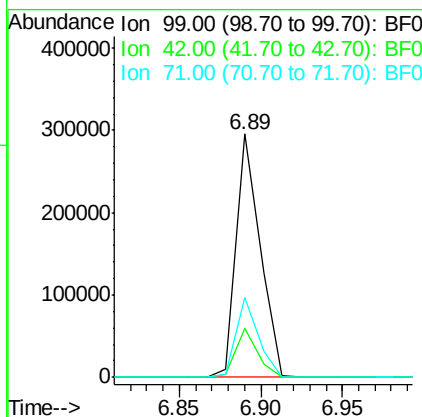
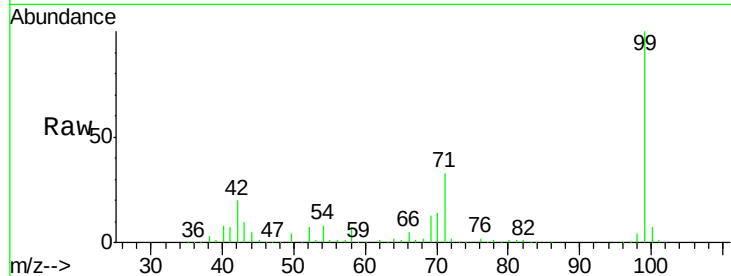
ClientSampled :

SB-54S

Tot Ion:	99	Resp:	300146
Ion Ratio	Lower	Upper	
99	100		
42	20.2	12.8	19.2#
71	32.6	23.4	35.2

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#21

Naphthalene-d8

Concen: 20.00 ng

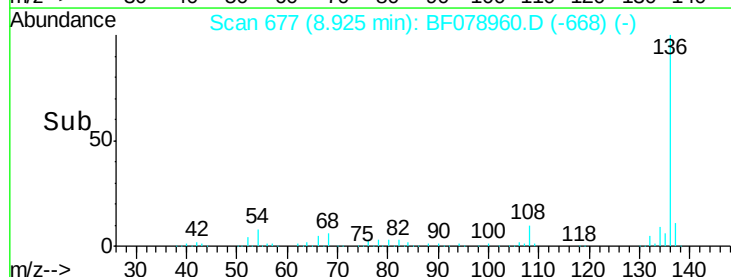
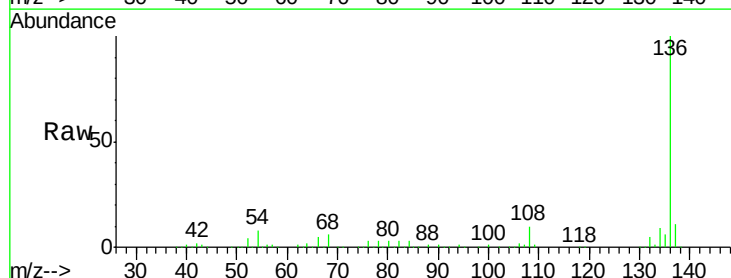
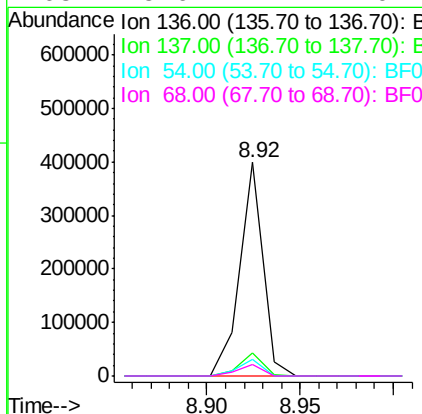
RT: 8.92 min Scan# 677

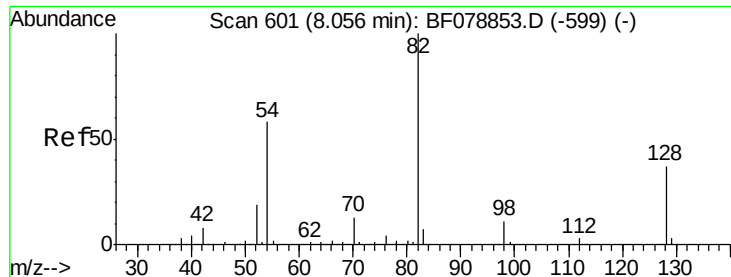
Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

Tgt Ion:	136	Resp:	348193
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.7	13.1
54	7.5	5.8	8.8
68	5.6	4.2	6.4





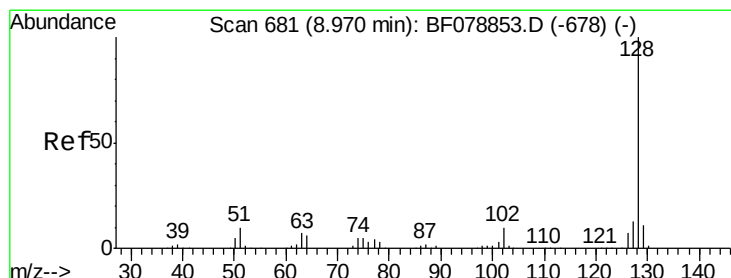
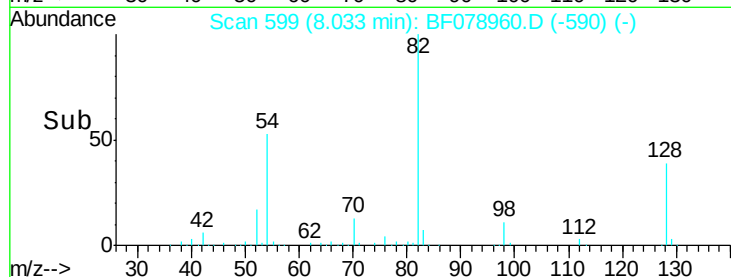
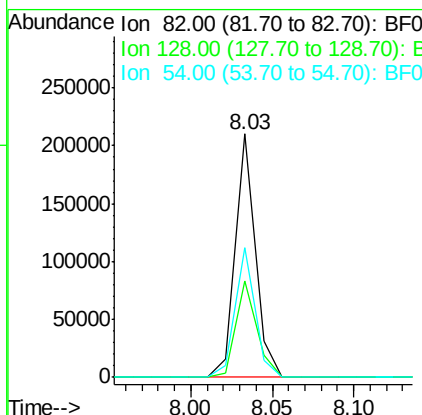
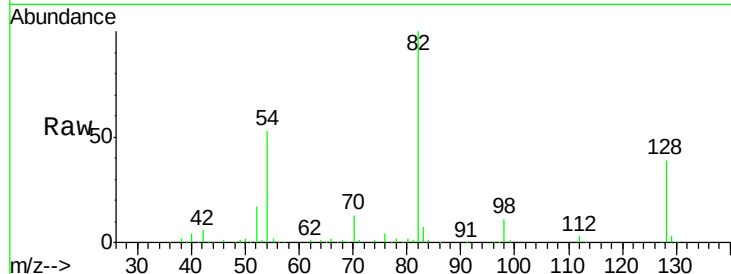
#23
 Nitrobenzene-d5
 Concen: 29.35 ng
 RT: 8.03 min Scan# 599
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Instrument :
 BNA_F
 ClientSampled :
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Tot Ion	Ratio	Resp	Lower	Upper
82	100	177814		
128	39.5	30.0	45.0	
54	53.0	46.4	69.6	

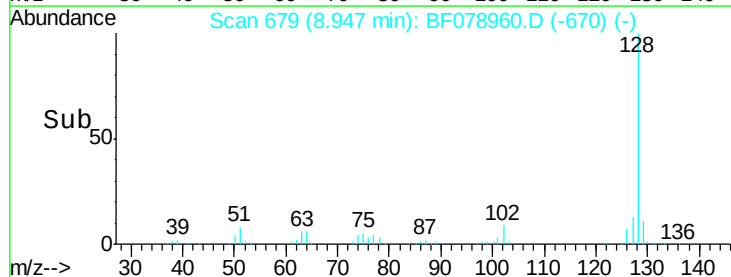
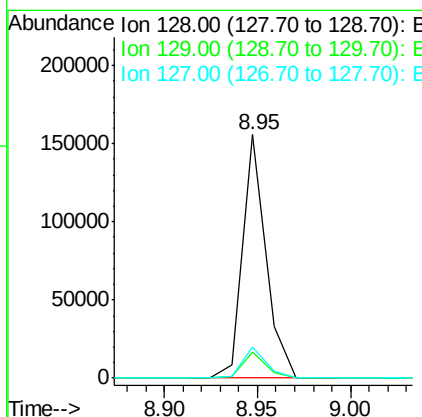
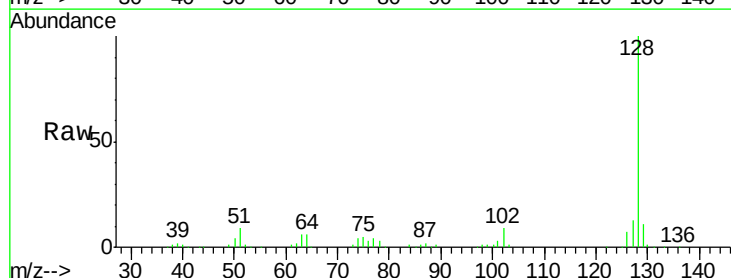
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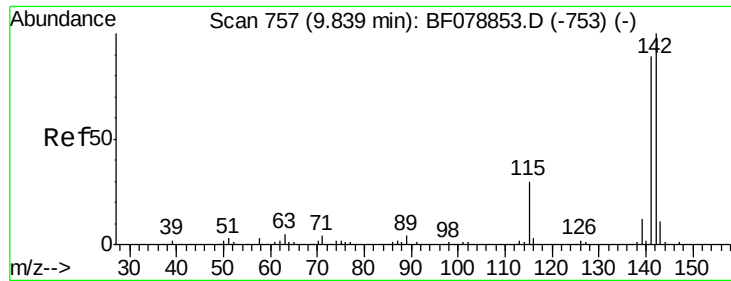
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#31
 Naphthalene
 Concen: 8.18 ng
 RT: 8.95 min Scan# 679
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	135729		
129	10.9	9.3	13.9	
127	13.0	10.7	16.1	





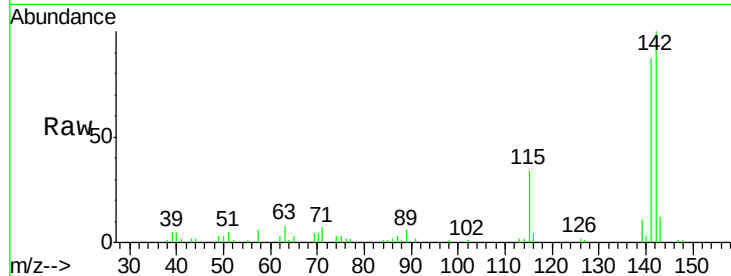
#37
2-Methylnaphthalene
Concen: 3.76 ng
RT: 9.80 min Scan# 754
Delta R.T. -0.00 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Instrument :
BNA_F
ClientSampled :
SB-54S

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.9	70.9	106.3
115	34.3	28.5	42.7

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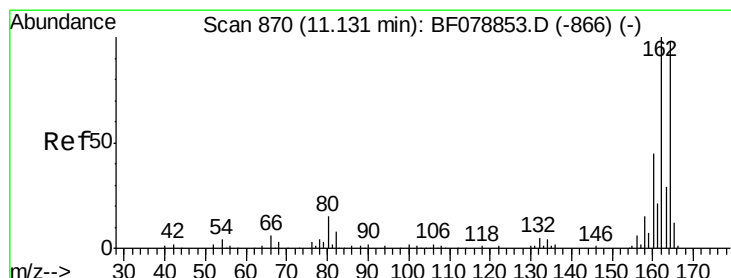
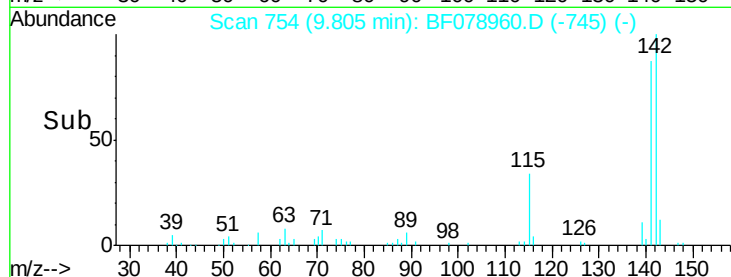
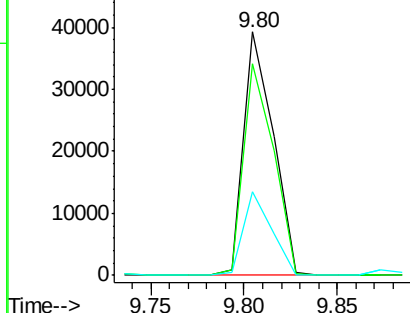


Abundance

Ion 142.00 (141.70 to 142.70): E

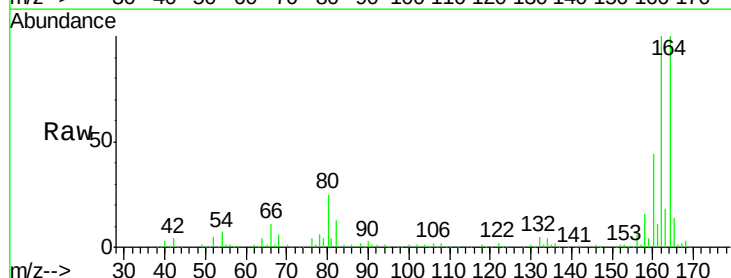
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.10 min Scan# 867
Delta R.T. -0.00 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.0	82.7	124.1
160	44.5	35.8	53.8

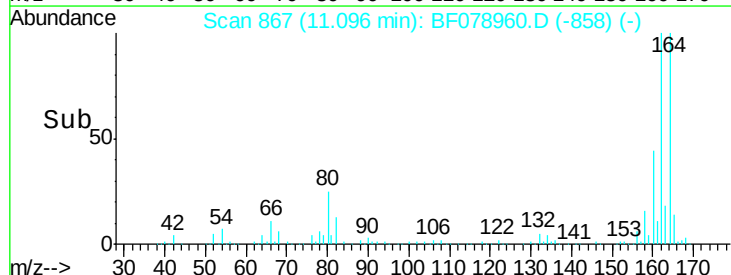
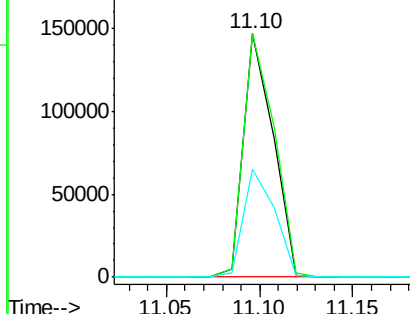


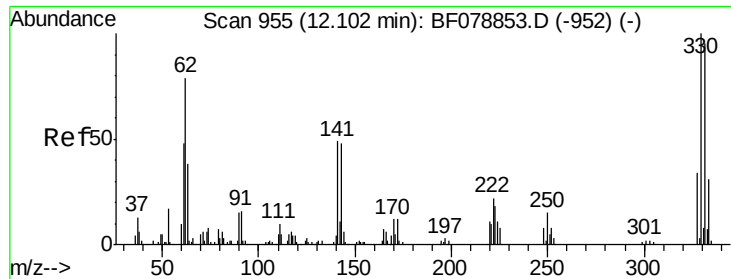
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





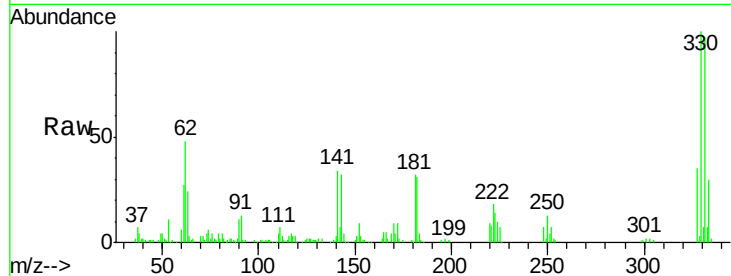
#41
 2,4,6-Tribromophenol
 Concen: 47.76 ng
 RT: 12.08 min Scan# 953
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-54S

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	96.3	0.0	0.0#
141	36.2	0.0	0.0#

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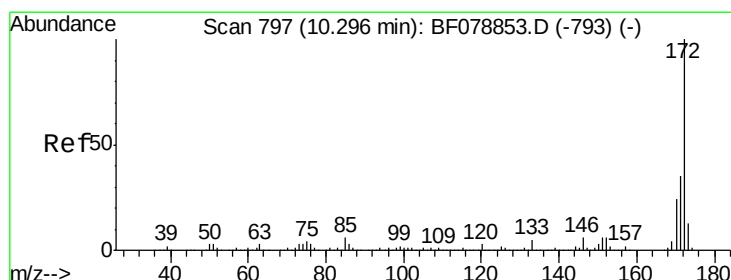
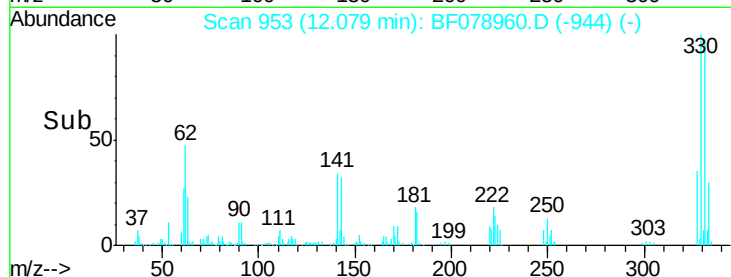
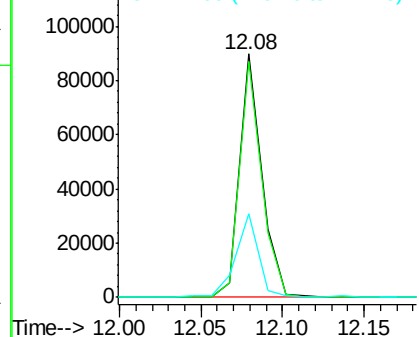


Abundance

Ion 329.80 (329.50 to 330.50): E

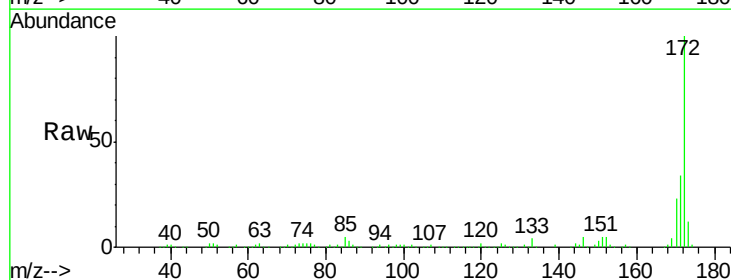
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 29.64 ng
 RT: 10.27 min Scan# 795
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	34.4	27.9	41.9
170	23.3	19.4	29.0

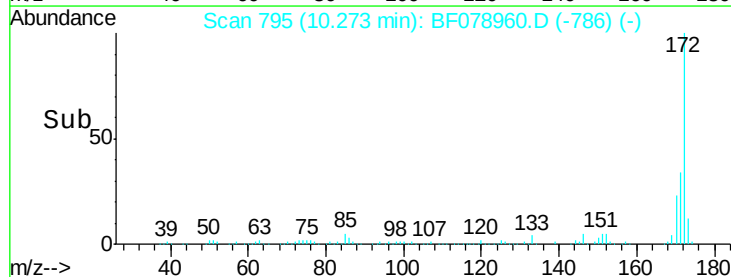
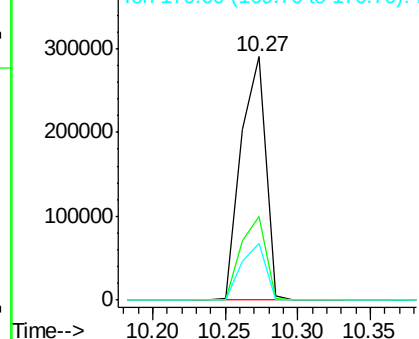


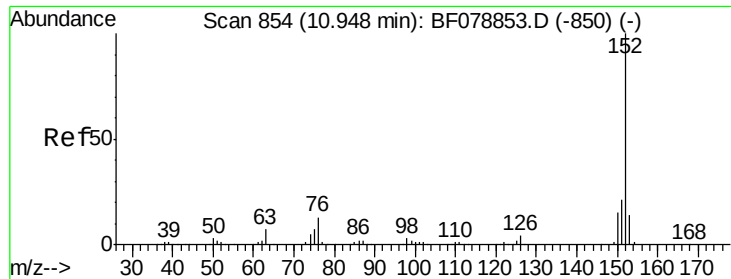
Abundance

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: 4.34 ng

RT: 10.92 min Scan# 852

Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

Instrument :

BNA_F

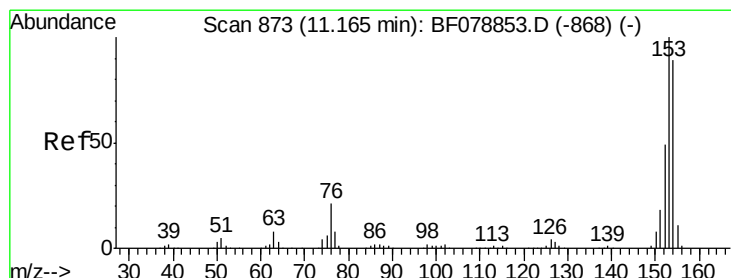
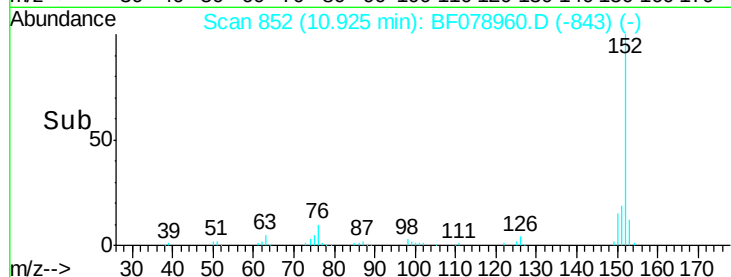
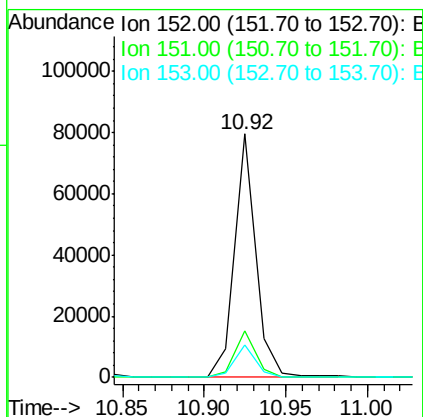
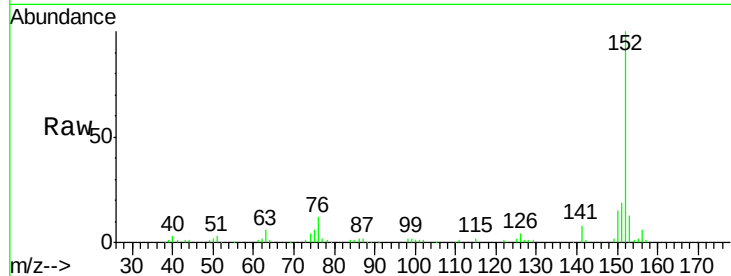
ClientSampled :

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Tot Ion:	152	Resp:	71648
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.2	24.4
153	13.3	10.9	16.3

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#51

Acenaphthene

Concen: 8.70 ng

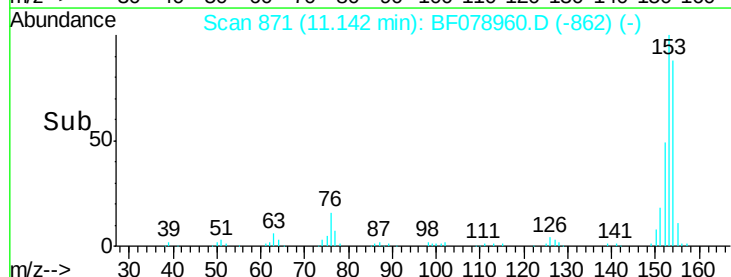
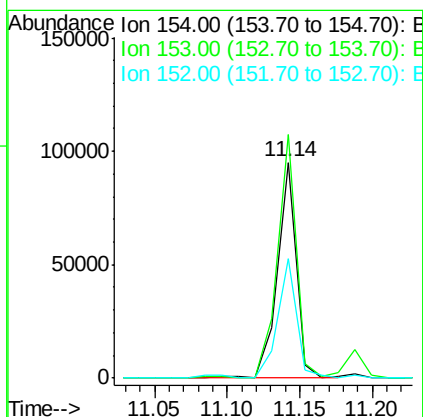
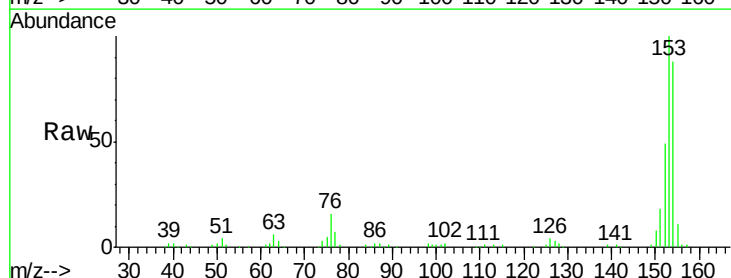
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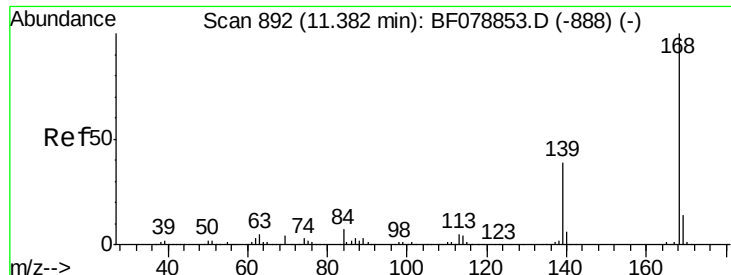
Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

Tgt Ion:	154	Resp:	85719
Ion Ratio	Lower	Upper	
154	100		
153	113.0	91.5	137.3
152	55.6	44.2	66.4





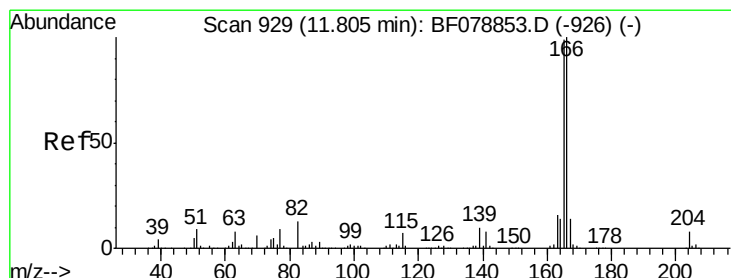
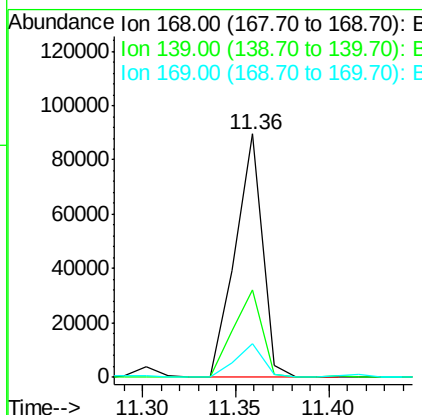
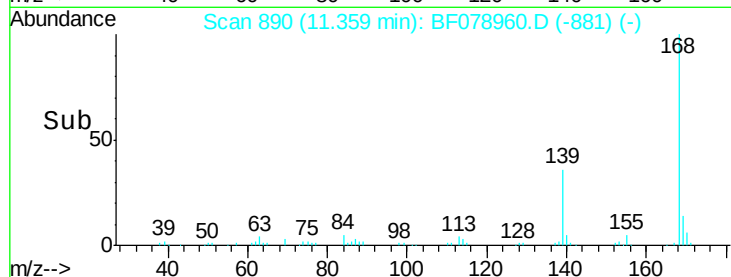
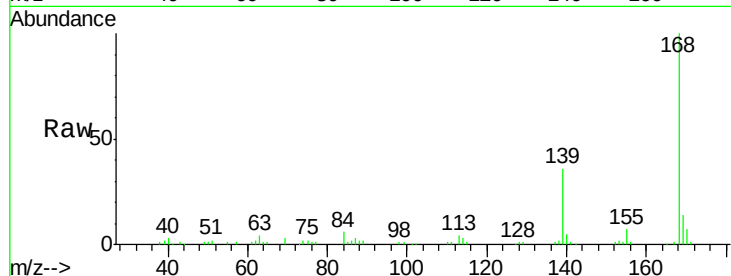
#54
Dibenzenofuran
Concen: 6.45 ng
RT: 11.36 min Scan# 890
Delta R.T. -0.00 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Instrument :
BNA_F
ClientSampleId :
SB-54S

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.9	31.0	46.4
169	14.0	10.6	16.0

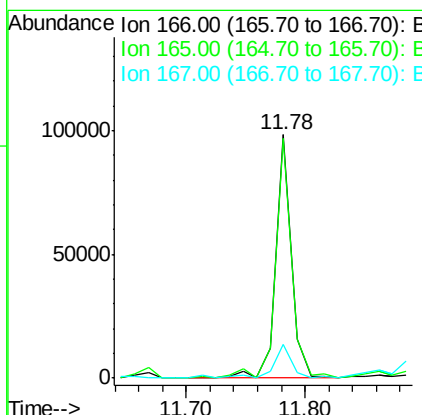
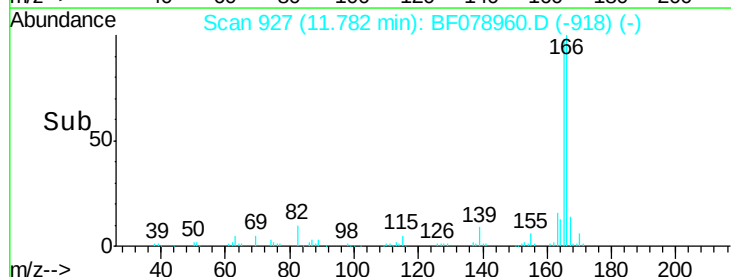
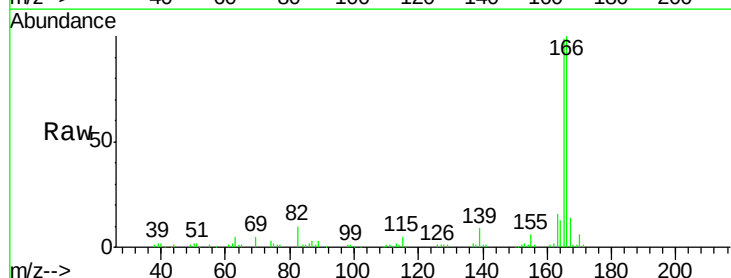
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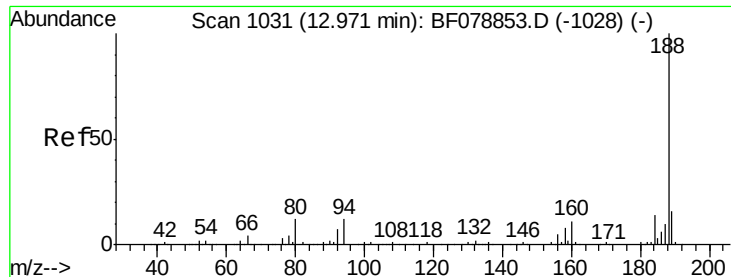
apatel
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#57
Fluorene
Concen: 7.72 ng
RT: 11.78 min Scan# 927
Delta R.T. -0.00 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.5	117.7
167	14.0	11.0	16.6





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.95 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

Instrument :

BNA_F

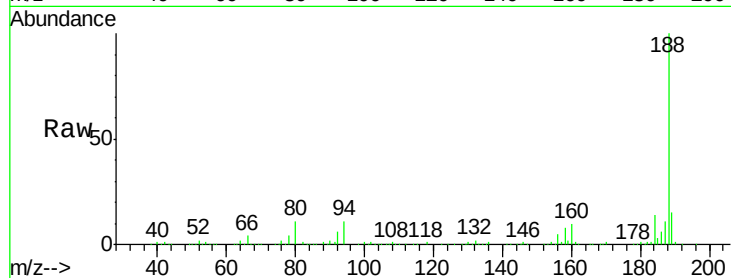
ClientSampleId :

SB-54S

Tot Ion:	188	Resp:	326647
Ion Ratio	Lower	Upper	
188	100		
94	10.8	8.2	12.2
80	11.3	8.9	13.3

Manual Integrations
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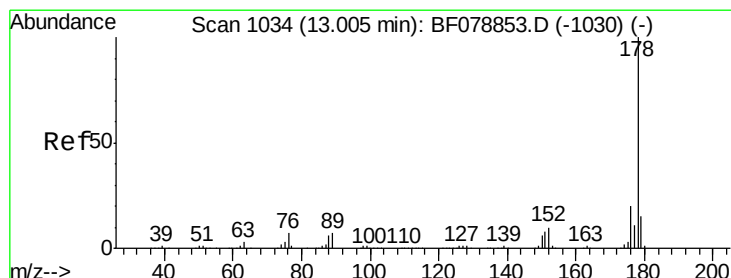
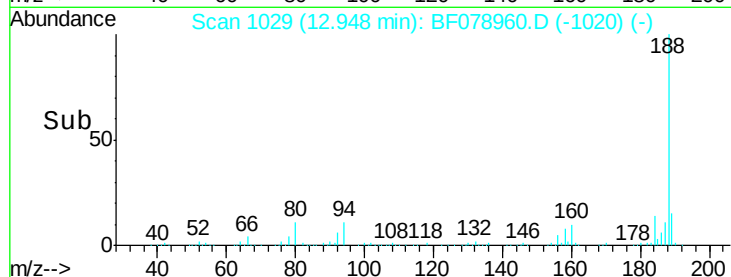
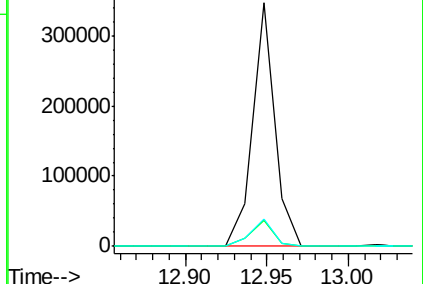
apatel
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 66.35 ng

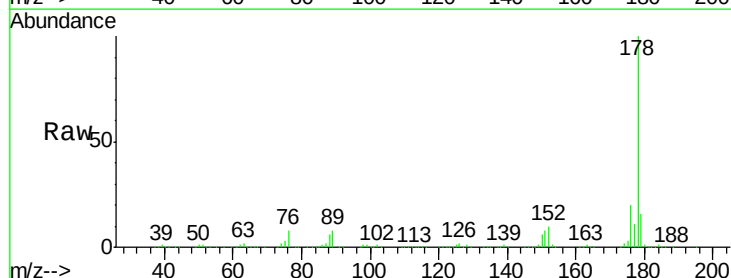
RT: 12.98 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

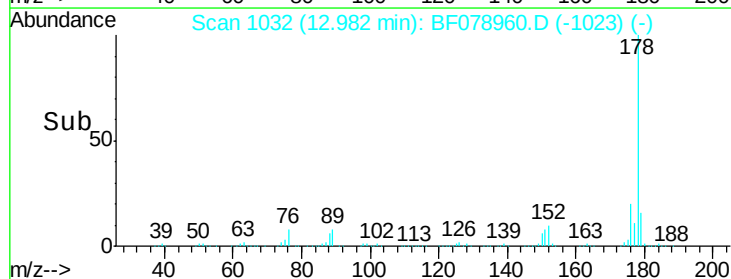
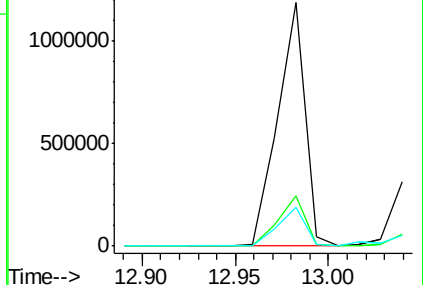
Tgt Ion:	178	Resp:	1212464
Ion Ratio	Lower	Upper	
178	100		
176	20.4	15.8	23.8
179	16.0	12.5	18.7

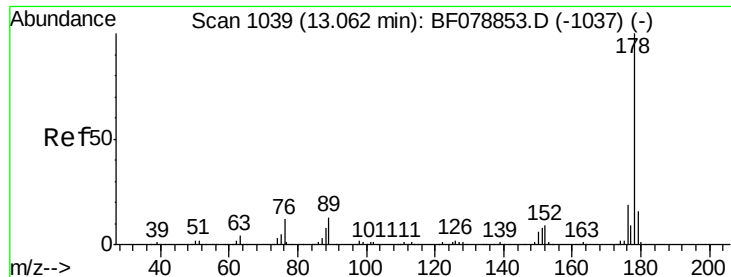


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





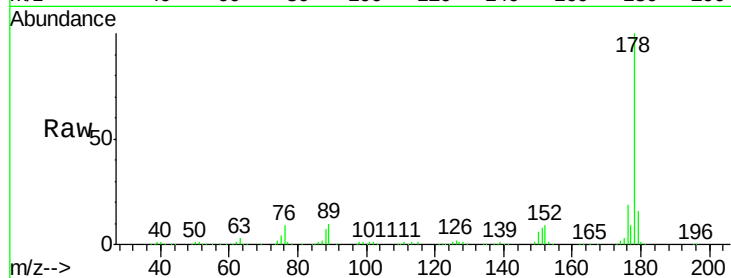
#71
 Anthracene
 Concen: 16.17 ng
 RT: 13.04 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-54S

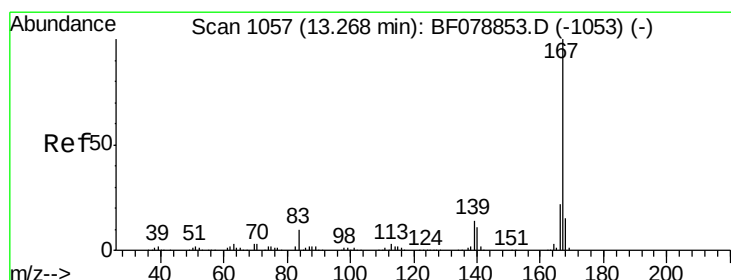
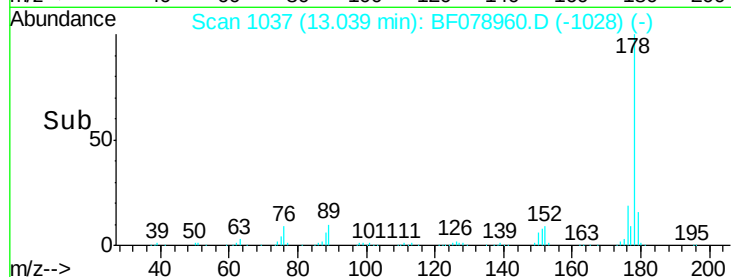
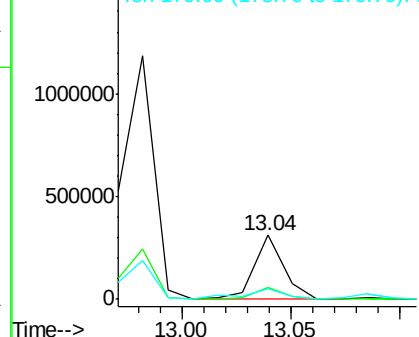
Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100		289966		
176	18.8	15.5	23.3		
179	15.8	12.7	19.1		

Manual Integrations
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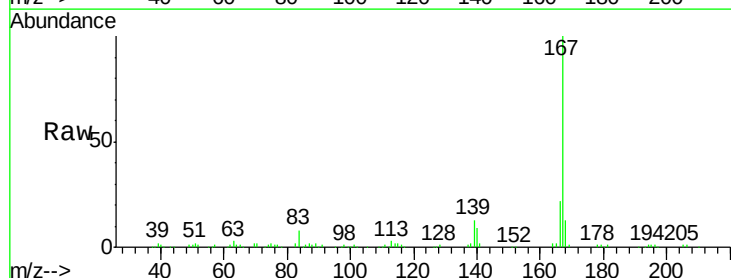


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

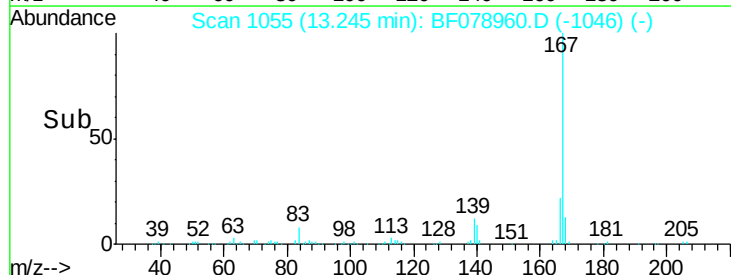
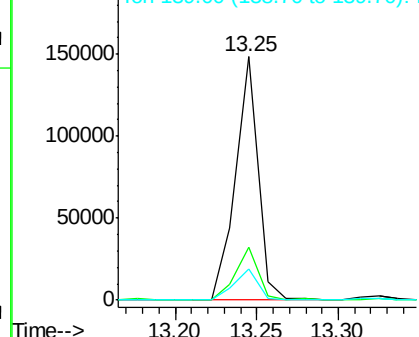


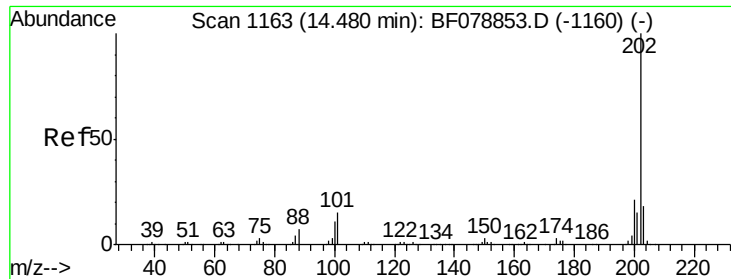
#72
 Carbazole
 Concen: 8.26 ng
 RT: 13.25 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
167	100		141060		
166	21.7	17.8	26.8		
139	12.7	10.6	16.0		



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: 70.09 ng

RT: 14.46 min Scan# 1161

Delta R.T. -0.00 min

Lab File: BF078960.D

Acq: 6 May 2015 15:08

Instrument :

BNA_F

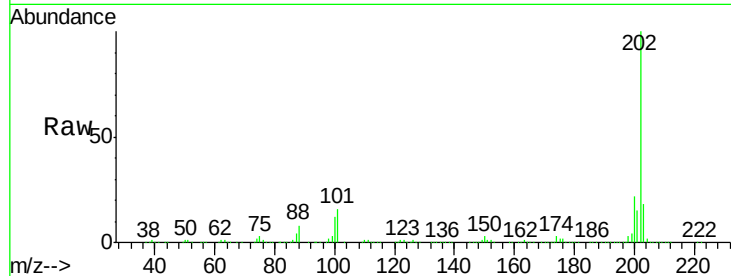
ClientSampleId :

SB-54S

Tot Ion	Ratio	Resp	Lower	Upper
202	100	1334566		
101	15.8	0.0	34.6	
203	18.5	0.0	38.4	

Manual Integrations
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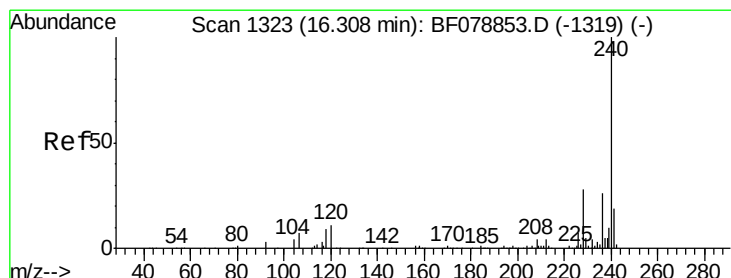
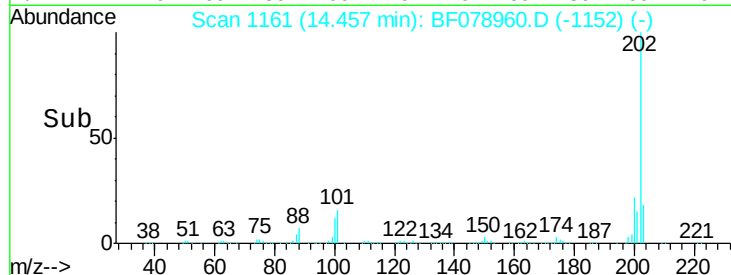
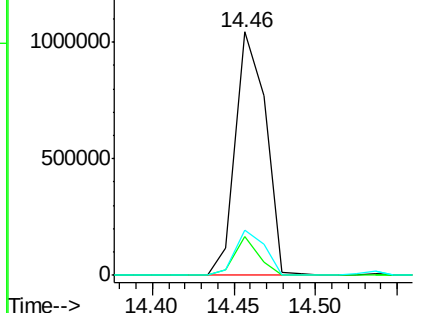
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.29 min Scan# 1321

Delta R.T. -0.02 min

Lab File: BF078960.D

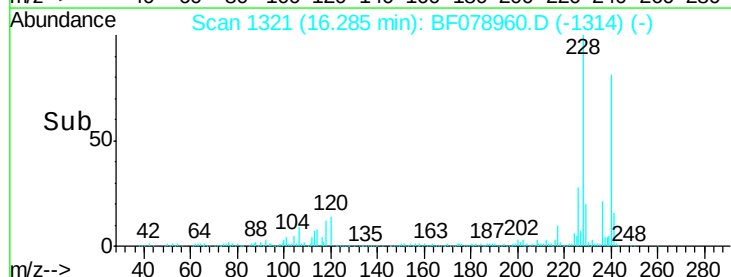
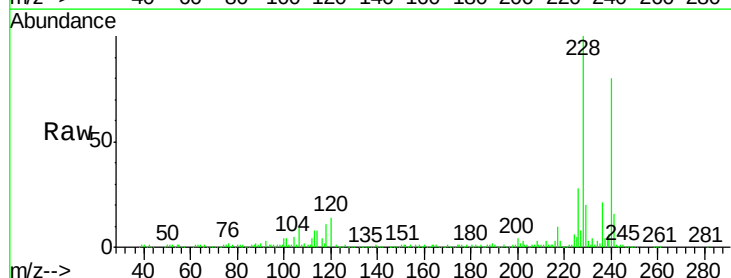
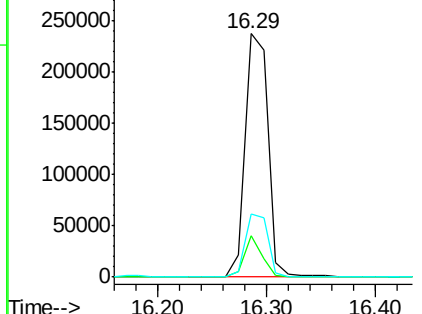
Acq: 6 May 2015 15:08

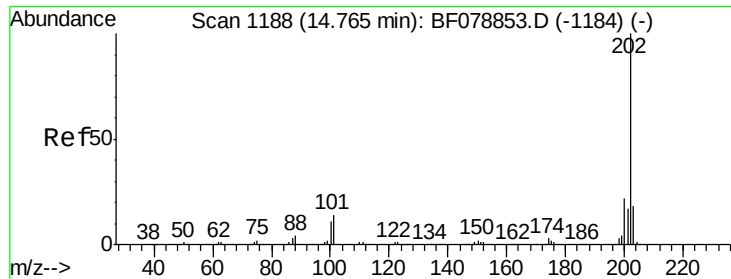
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	342299		
120	17.1	9.7	14.5#	
236	26.0	20.2	30.4	

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





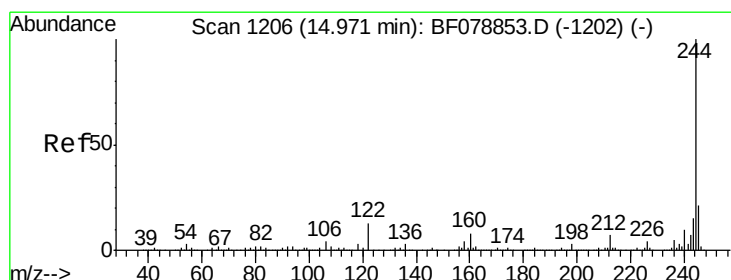
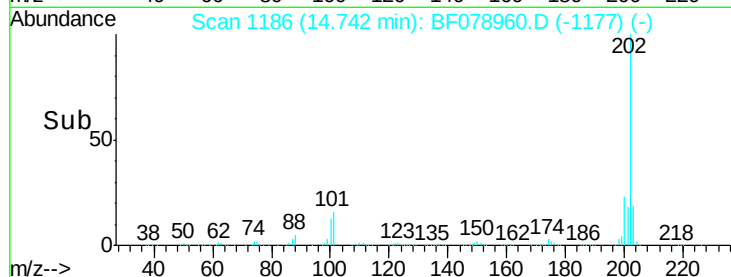
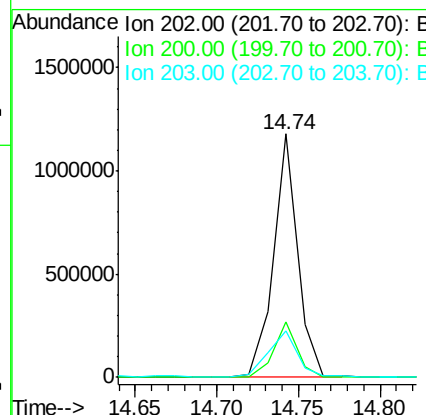
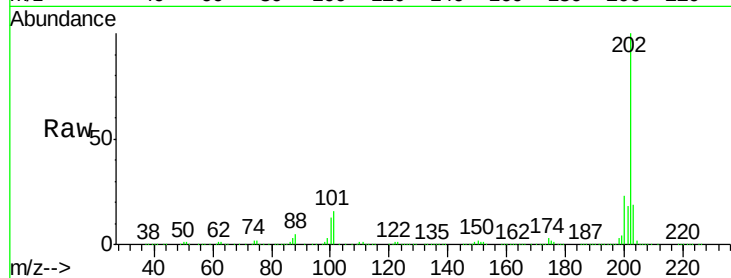
#77
Pvrene
Concen: 61.64 ng
RT: 14.74 min Scan# 1186
Delta R.T. -0.00 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Instrument :
BNA_F
ClientSampleId :
SB-54S

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.5	26.3
203	19.3	13.9	20.9

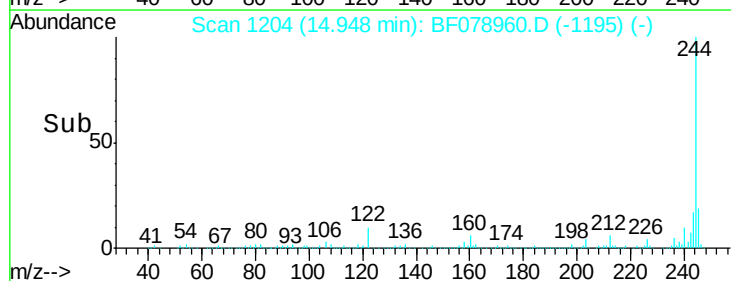
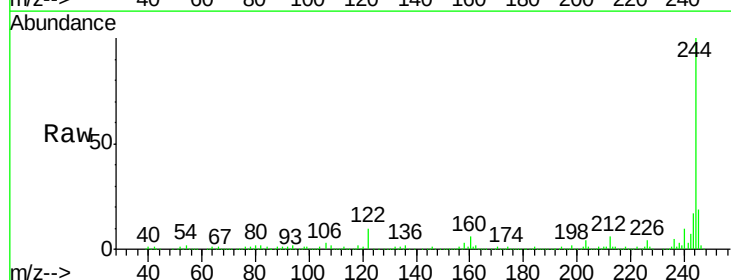
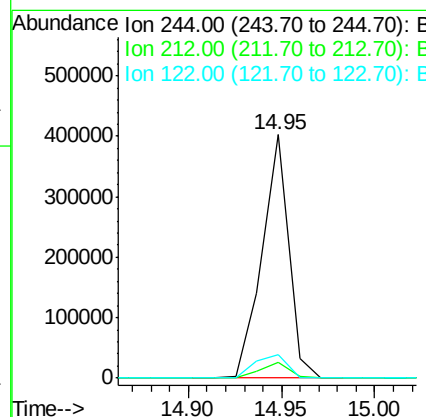
Manual Integrations
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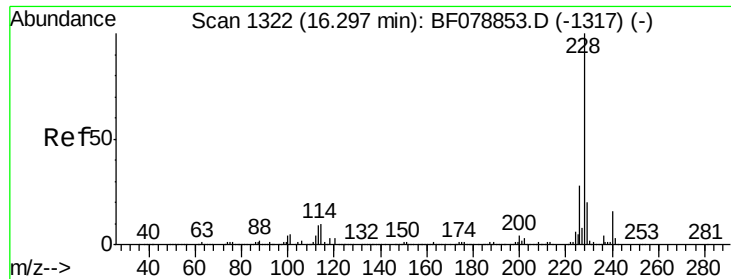
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#78
Terphenyl-d14
Concen: 27.78 ng
RT: 14.95 min Scan# 1204
Delta R.T. -0.00 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.6	8.4
122	9.6	10.3	15.5#





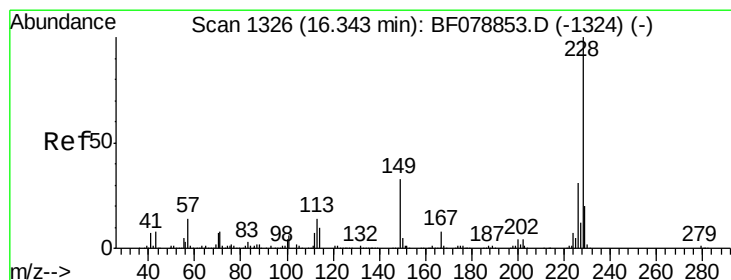
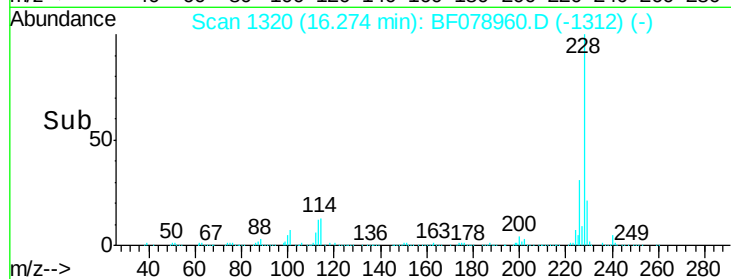
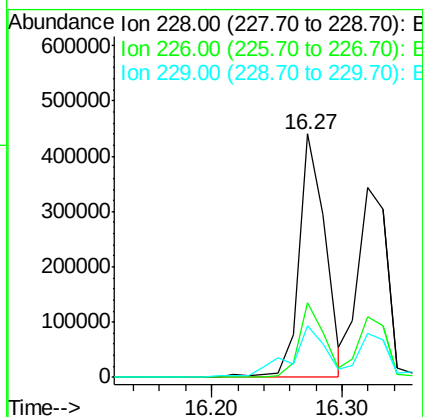
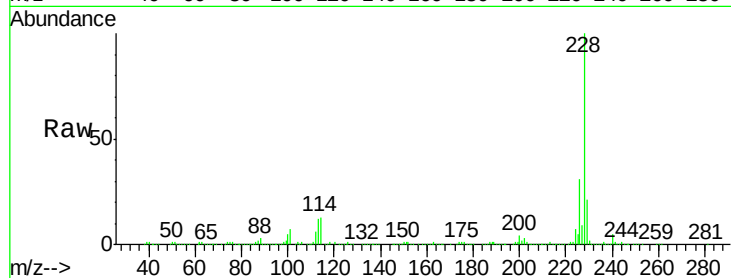
#80
Benzo(a)anthracene
Concen: 32.21 ng
RT: 16.27 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Instrument :
BNA_F
ClientSampled :
SB-54S

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	22.6	33.8
229	21.1	15.9	23.9

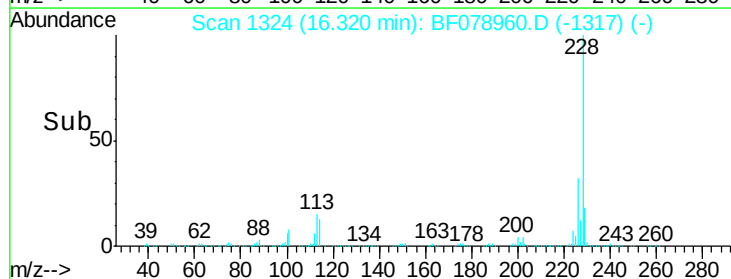
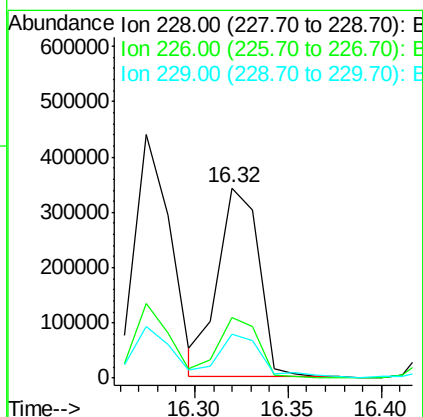
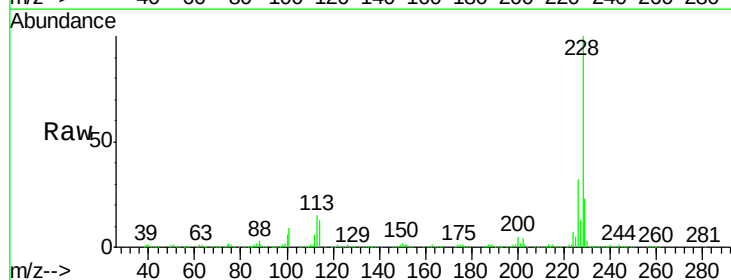
Manual Integrations
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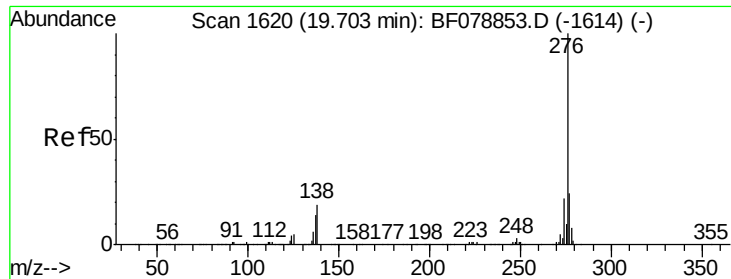
apatel
5/7/2015 1:57:16 PM



#82
Chrysene
Concen: 29.19 ng
RT: 16.32 min Scan# 1324
Delta R.T. -0.02 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	22.8	16.0	24.0





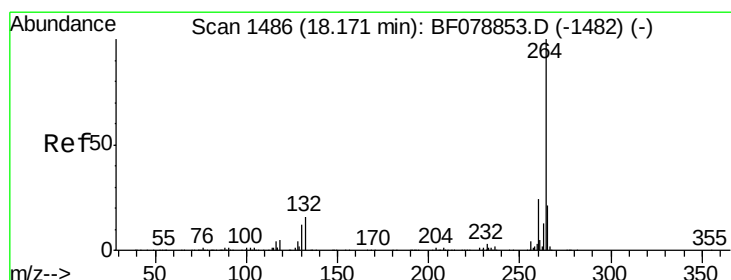
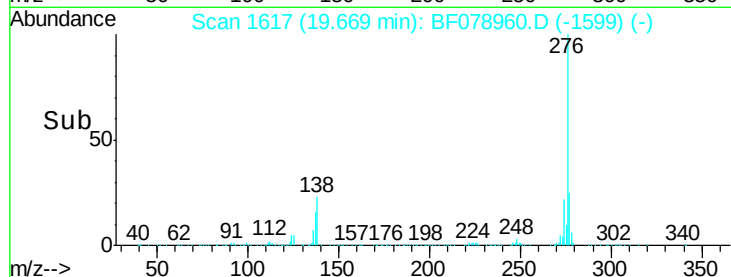
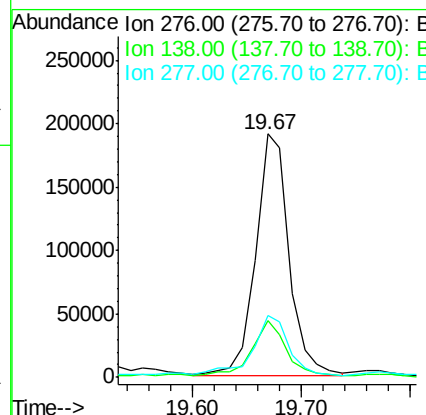
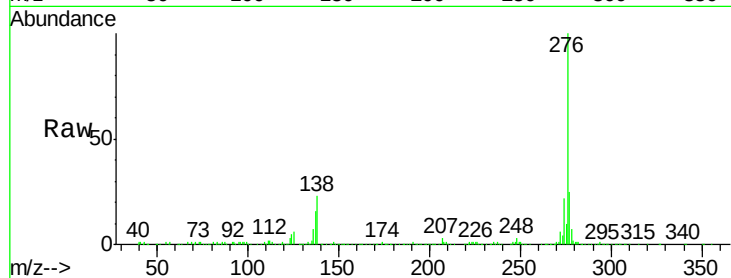
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 17.74 ng
 RT: 19.67 min Scan# 1617
 Delta R.T. -0.09 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Instrument :
 BNA_F
 ClientSampled :
 SB-54S

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	24.0	0.0	0.0#
277	28.9	0.0	0.0#

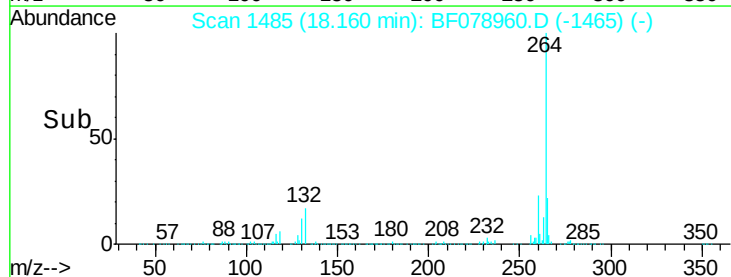
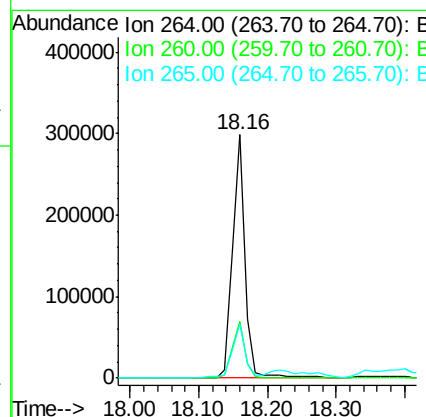
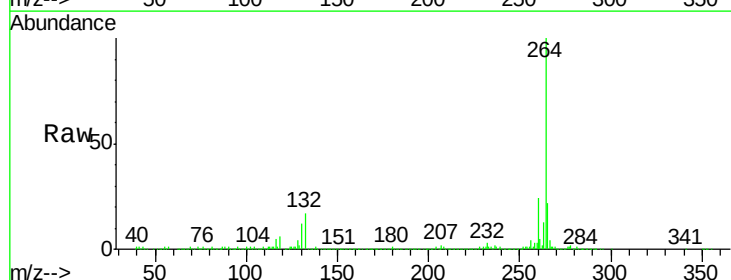
Manual Integrations
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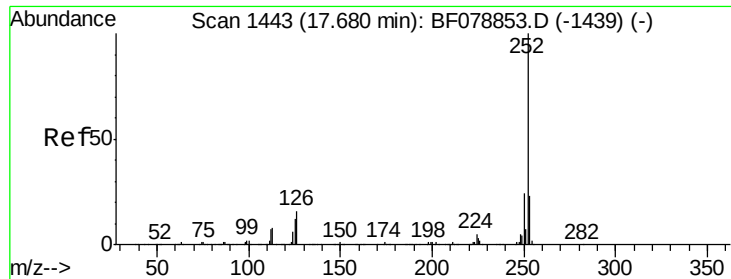
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.16 min Scan# 1485
 Delta R.T. -0.07 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.5	19.4	29.2
265	22.5	18.3	27.5





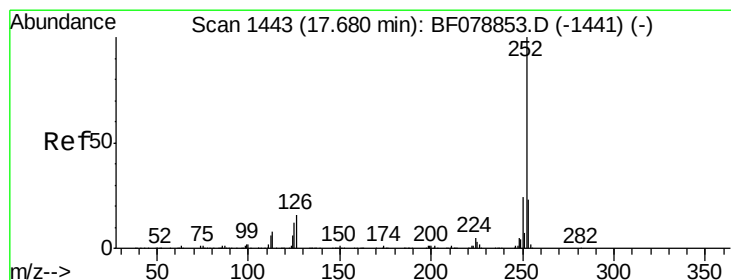
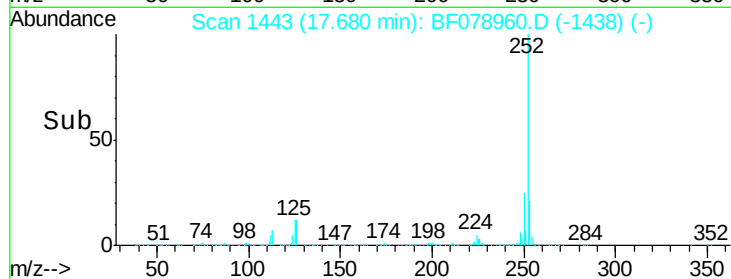
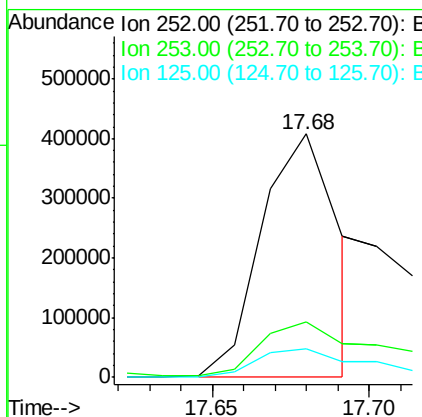
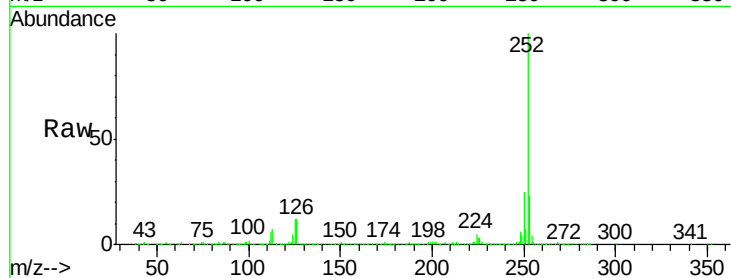
#87
Benzo(b)fluoranthene
Concen: 32.89 ng m
RT: 17.68 min Scan# 1443
Delta R.T. -0.05 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Instrument :
BNA_F
ClientSampleId :
SB-54S

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	11.7	9.5	14.3

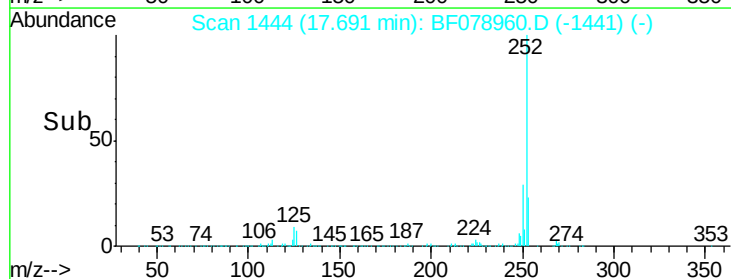
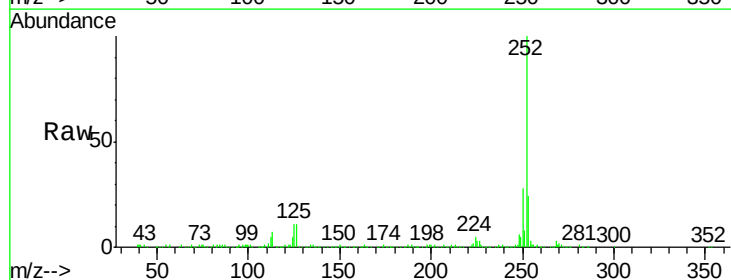
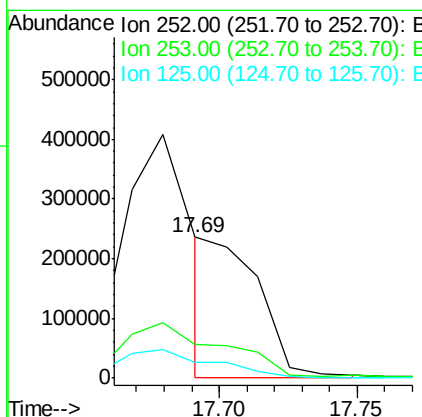
Manual Integrations
APPROVED

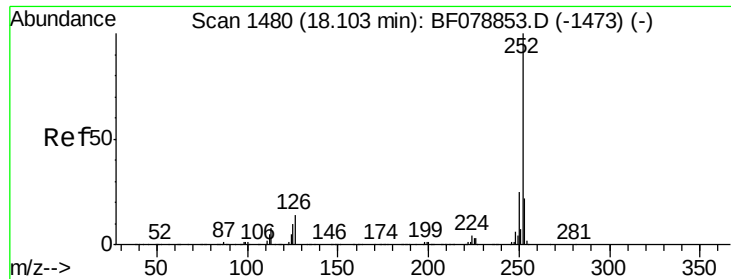
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#88
Benzo(k)fluoranthene
Concen: 13.99 ng m
RT: 17.69 min Scan# 1444
Delta R.T. -0.07 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	11.1	10.0	15.0





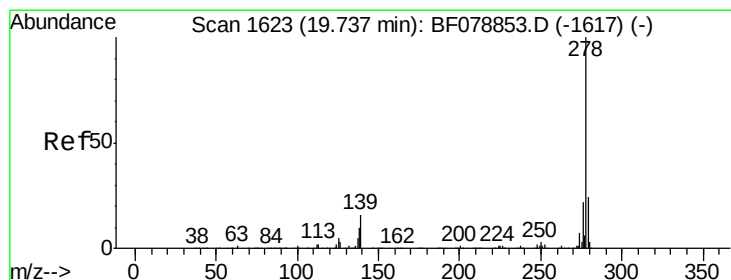
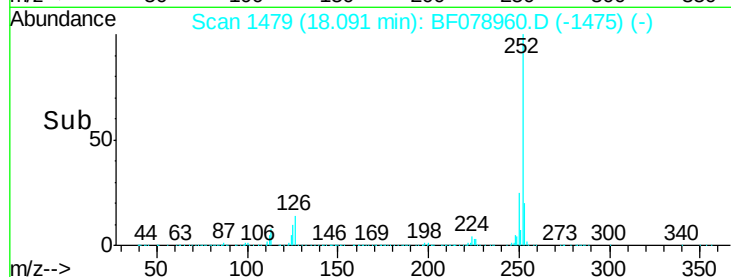
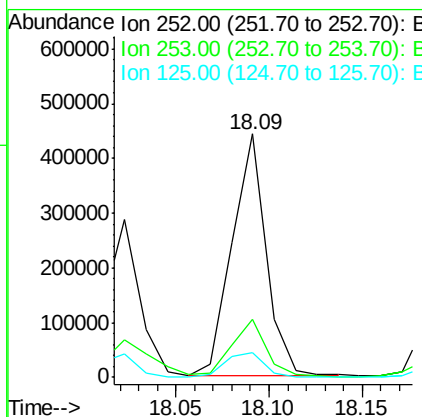
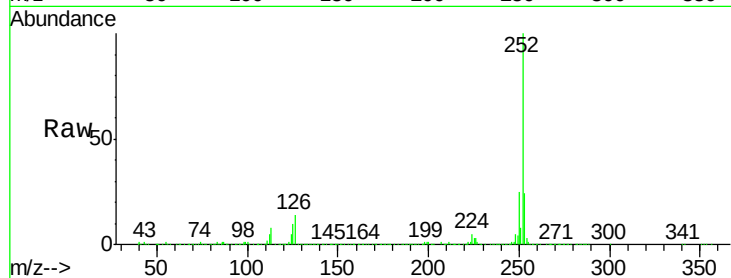
#89
Benzo(a)pyrene
Concen: 28.72 ng
RT: 18.09 min Scan# 1479
Delta R.T. -0.06 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Instrument :
BNA_F
ClientSampleId :
SB-54S

Tot Ion	Ratio	Resp	Lower	Upper
252	100	559933		
253	23.9		17.3	25.9
125	10.3		7.0	10.6

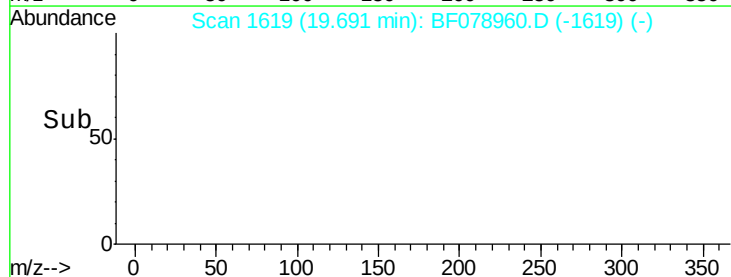
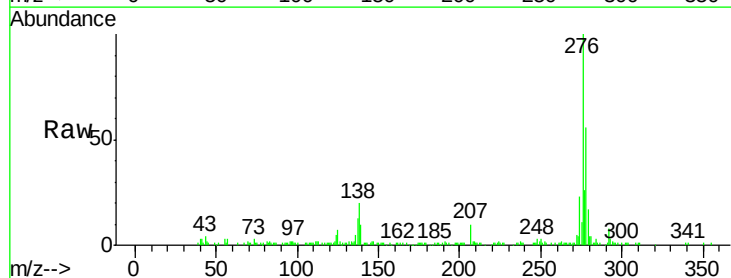
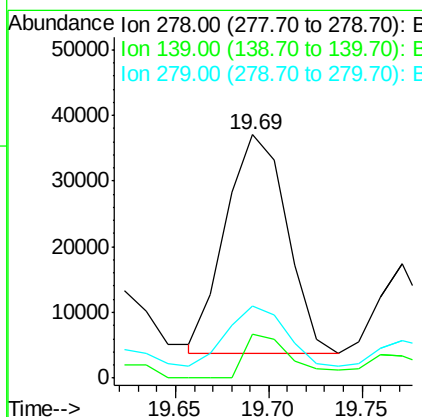
Manual Integrations
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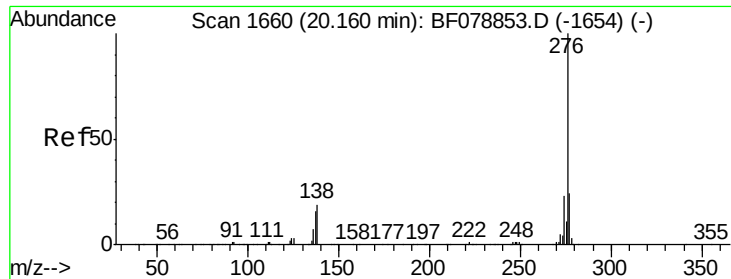
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#90
Dibenzo(a,h)anthracene
Concen: 3.70 ng
RT: 19.69 min Scan# 1619
Delta R.T. -0.10 min
Lab File: BF078960.D
Acq: 6 May 2015 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	76684		
139	18.1		12.8	19.2
279	29.5		19.6	29.4#





#91
 Benzo(a,h,i)perylene
 Concen: 18.87 ng
 RT: 20.13 min Scan# 1657
 Delta R.T. -0.08 min
 Lab File: BF078960.D
 Acq: 6 May 2015 15:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-54S

Tot Ion:	276	Resp:	391890
Ion Ratio		Lower	Upper
276	100		
277	24.1	18.6	28.0
138	21.3	17.4	26.0

Manual Integrations
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