

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042115\
 Data File : BF078690.D
 Acq On : 21 Apr 2015 18:32
 Operator : TP/IZ
 Sample : G1938-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-67AS

Manual Integrations
 APPROVED

apatel
 4/22/2015 5:22:13 PM

Quant Time: Apr 22 03:21:35 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 22 00:52:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.82	152	33479	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	141033	20.00	ng	-0.01
38) Acenaphthene-d10	11.16	164	71659	20.00	ng	-0.01
63) Phenanthrene-d10	13.90	188	140372	20.00	ng	-0.01
75) Chrysene-d12	17.77	240	146980	20.00	ng	-0.01
86) Perylene-d12	19.47	264	155244	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	3.84	112	164346	80.94	ng	0.01
7) Phenol-d6	5.32	99	217850	85.61	ng	0.00
23) Nitrobenzene-d5	6.75	82	125302	53.85	ng	-0.01
41) 2,4,6-Tribromophenol	12.64	330	51691	86.98	ng	-0.01
44) 2-Fluorobiphenyl	9.99	172	258662	51.60	ng	-0.01
78) Terphenyl-d14	16.43	244	288180	44.30	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.01	128	17925	2.44	ng	97
49) Dimethylphthalate	10.80	163	12054	2.24	ng	# 97
51) Acenaphthene	11.22	154	14079	3.36	ng	98
54) Dibenzofuran	11.55	168	15472	2.42	ng	97
57) Fluorene	12.18	166	18605	3.58	ng	98
70) Phenanthrene	13.94	178	238938	29.43	ng	100
71) Anthracene	14.03	178	63129	7.89	ng	100
72) Carbazole	14.37	167	24831	3.31	ng	98
74) Fluoranthene	15.83	202	293685	34.30	ng	98
77) Pyrene	16.15	202	270853	29.36	ng	# 94
80) Benzo(a)anthracene	17.76	228	164672	18.83	ng	98
82) Chrysene	17.81	228	122674	14.93	ng	96
85) Indeno(1,2,3-cd)pyrene	20.64	276	71438	7.66	ng	# 83
87) Benzo(b)fluoranthene	19.05	252	157556m	16.42	ng	
88) Benzo(k)fluoranthene	19.06	252	63037m	7.39	ng	
89) Benzo(a)pyrene	19.42	252	126720	15.13	ng	97
90) Dibenzo(a,h)anthracene	20.66	278	19183m	2.29	ng	
91) Benzo(g,h,i)perylene	20.96	276	71127	8.46	ng	99

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

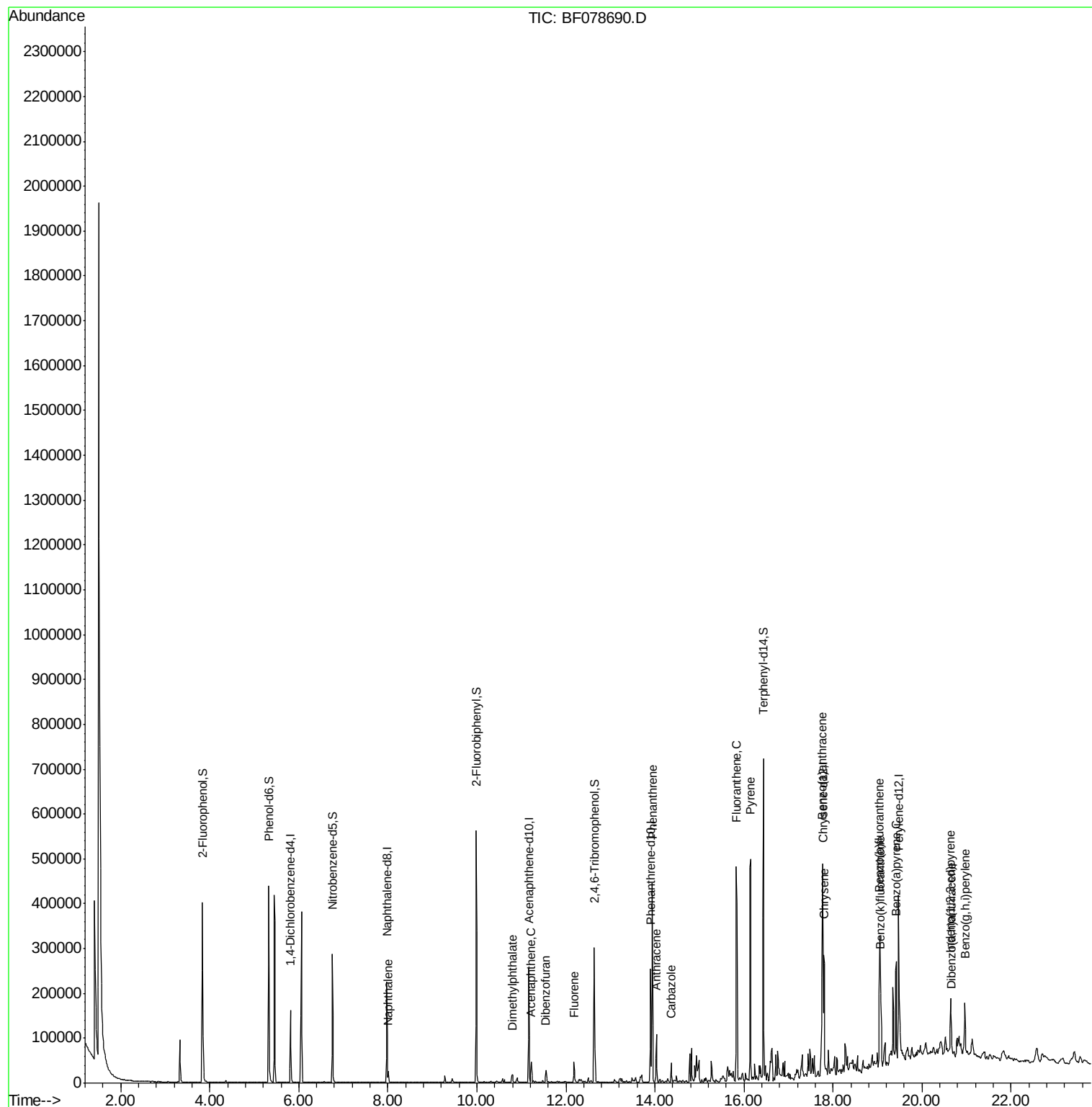
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042115\
Data File : BF078690.D
Acq On : 21 Apr 2015 18:32
Operator : TP/IZ
Sample : G1938-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

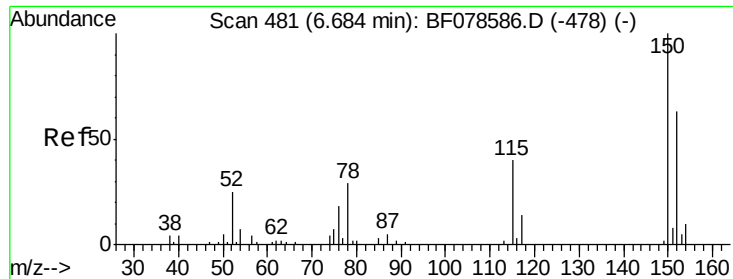
Instrument :
BNA_F
ClientSampleId :
SB-67AS

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM

Quant Time: Apr 22 03:21:35 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 22 00:52:13 2015
Response via : Initial Calibration





#1

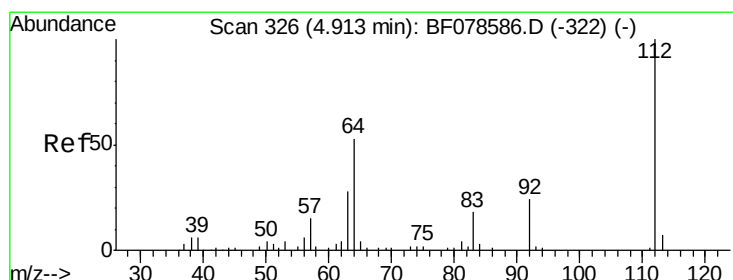
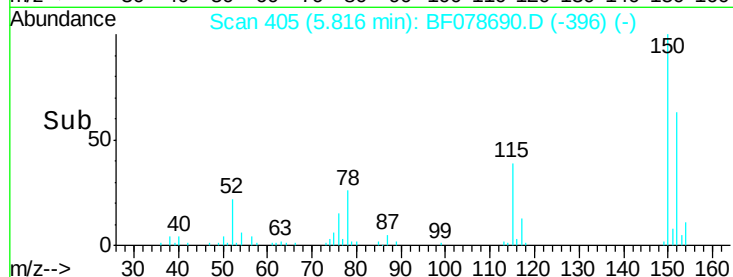
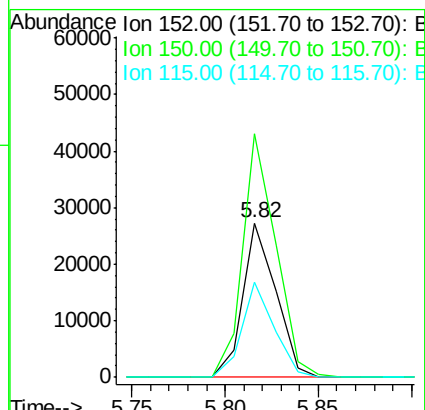
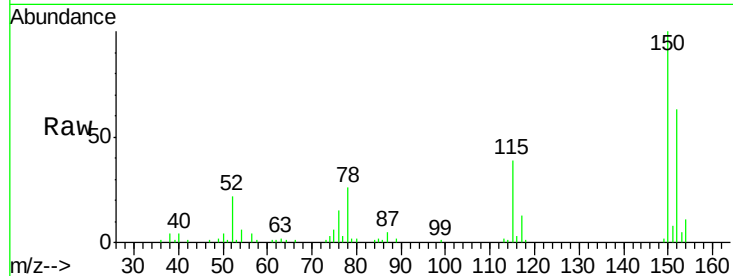
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.82 min Scan# 405
Delta R.T. -0.00 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampleId :
SB-67AS

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.9	188.9
115	61.5	52.7	79.1

Manual Integrations
APPROVED

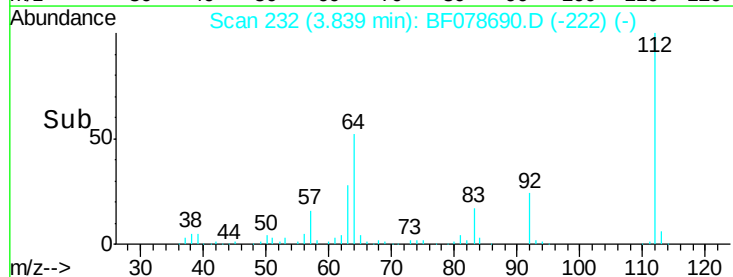
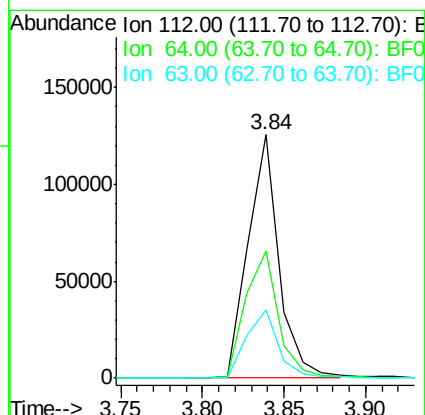
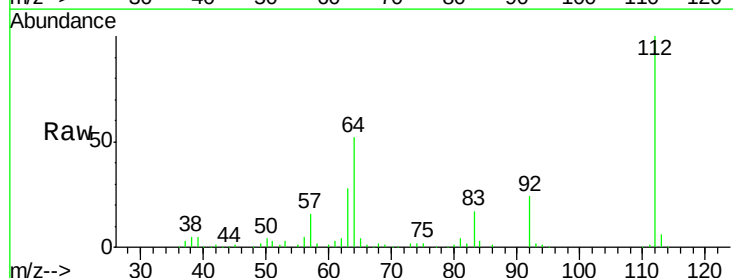
apatel
4/22/2015 5:22:13 PM

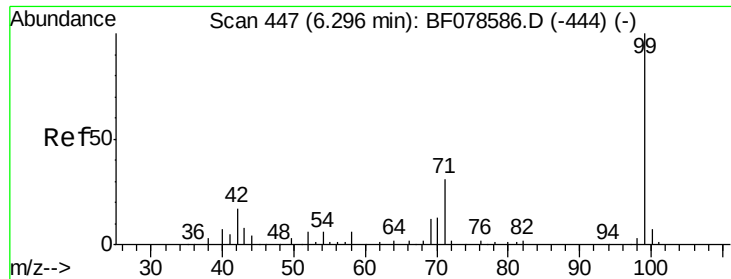


#5

2-Fluorophenol
Concen: 80.94 ng
RT: 3.84 min Scan# 232
Delta R.T. 0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.9	59.9
63	27.9	20.2	30.4





#7

Phenol-d6

Concen: 85.61 ng

RT: 5.32 min Scan# 362

Delta R.T. -0.00 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Instrument :

BNA_F

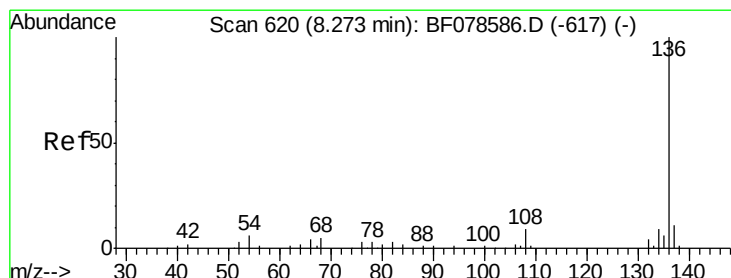
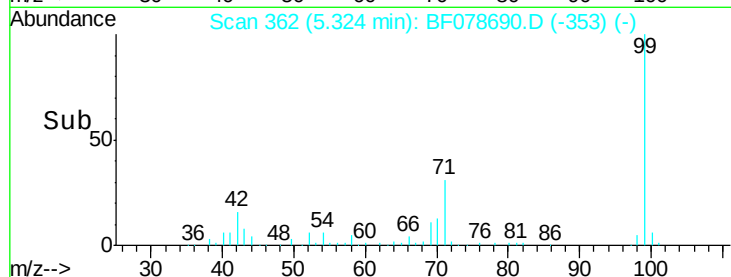
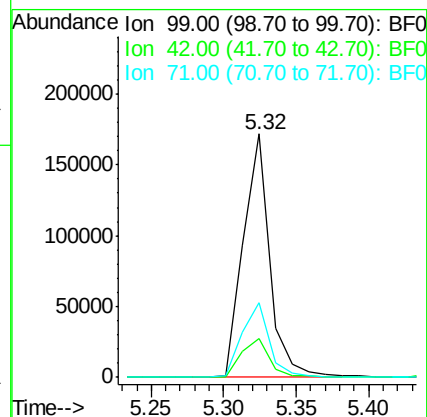
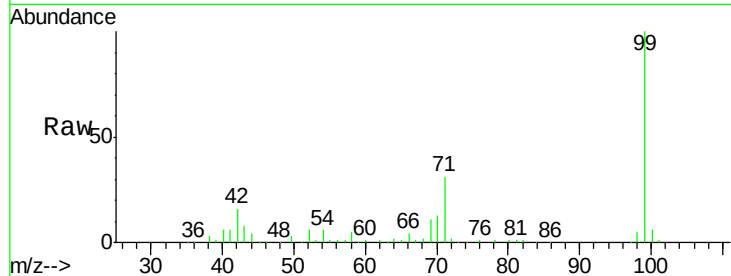
ClientSampleId :

SB-67AS

Tot Ion:	99	Resp:	217850
Ion Ratio	Lower	Upper	
99	100		
42	15.8	14.8	22.2
71	30.6	26.6	39.8

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM



#21

Naphthalene-d8

Concen: 20.00 ng

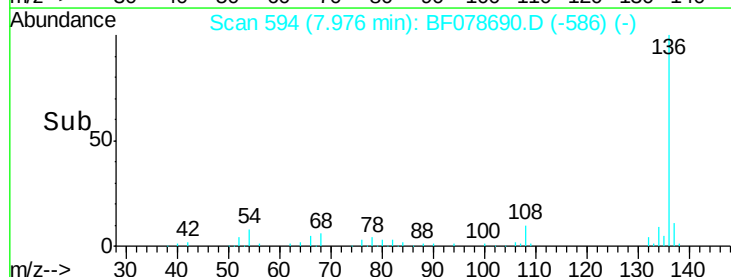
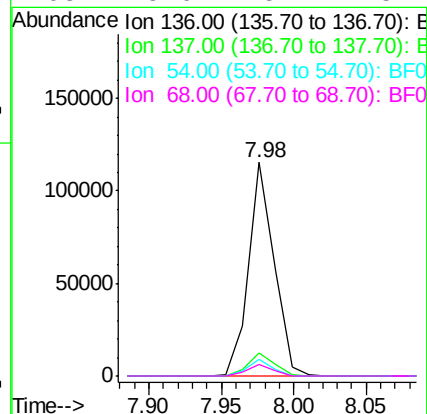
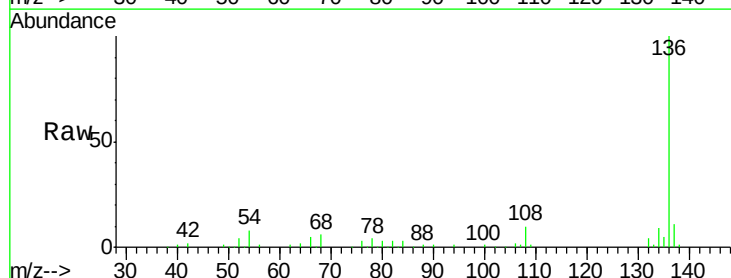
RT: 7.98 min Scan# 594

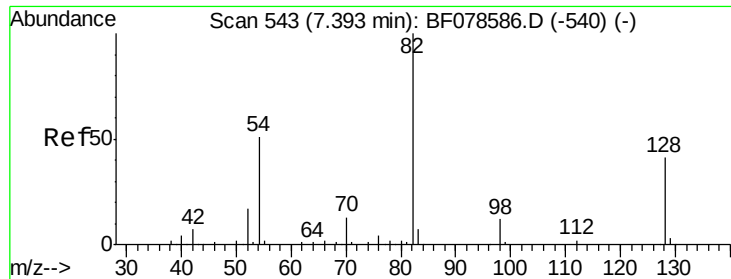
Delta R.T. -0.01 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Tgt Ion:	136	Resp:	141033
Ion Ratio	Lower	Upper	
136	100		
137	10.9	9.0	13.4
54	7.5	7.0	10.6
68	5.6	5.4	8.2





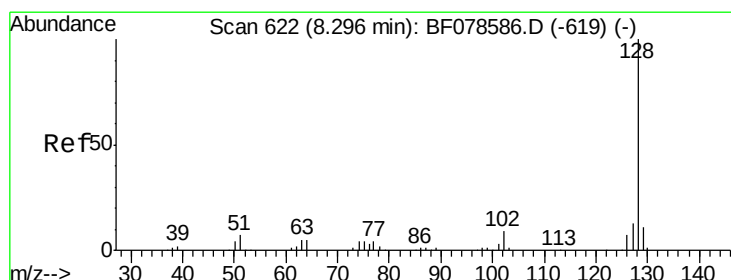
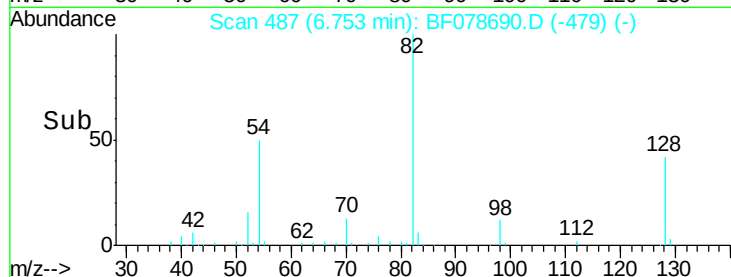
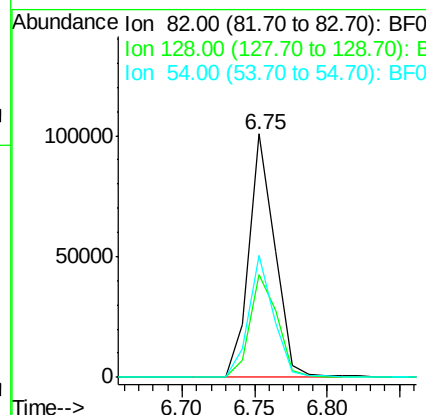
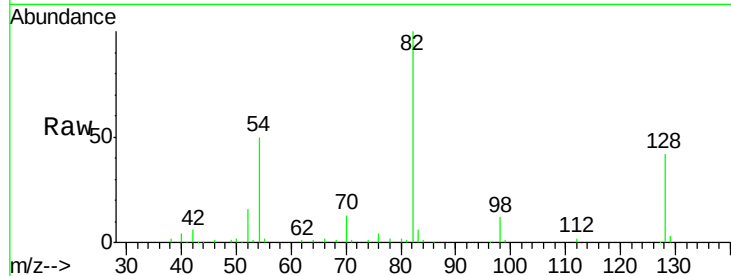
#23
 Nitrobenzene-d5
 Concen: 53.85 ng
 RT: 6.75 min Scan# 487
 Delta R.T. -0.01 min
 Lab File: BF078690.D
 Acq: 21 Apr 2015 18:32

Instrument :
 BNA_F
 ClientSampleId :
 SB-67AS

Tot Ion:	82	Resp:	125302
Ion Ratio	Lower	Upper	
82	100		
128	42.4	31.8	47.8
54	50.2	41.5	62.3

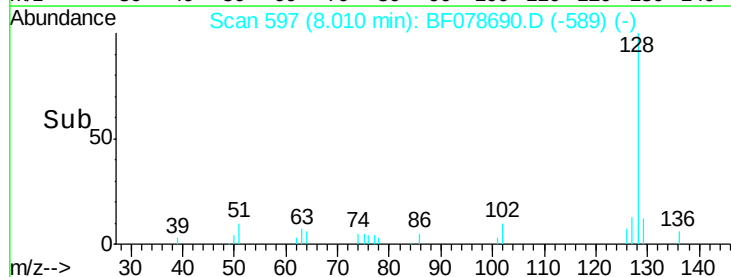
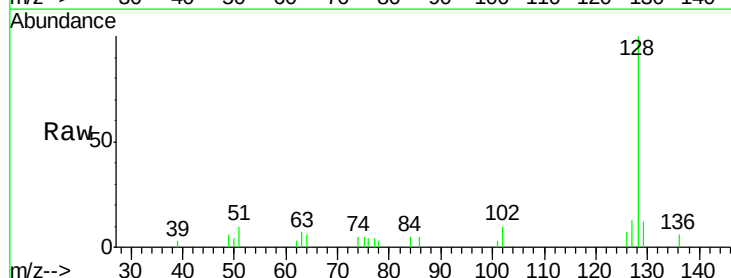
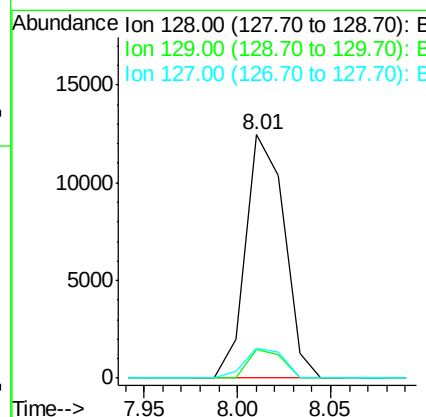
Manual Integrations
 APPROVED

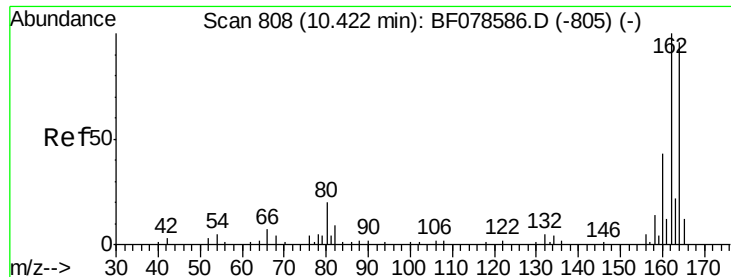
apatel
 4/22/2015 5:22:13 PM



#31
 Naphthalene
 Concen: 2.44 ng
 RT: 8.01 min Scan# 597
 Delta R.T. -0.01 min
 Lab File: BF078690.D
 Acq: 21 Apr 2015 18:32

Tgt Ion:	128	Resp:	17925
Ion Ratio	Lower	Upper	
128	100		
129	11.9	8.6	12.8
127	12.5	10.7	16.1





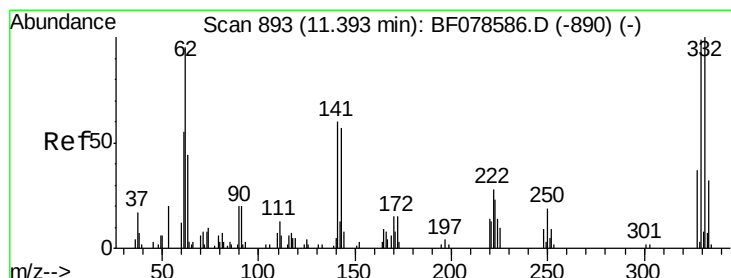
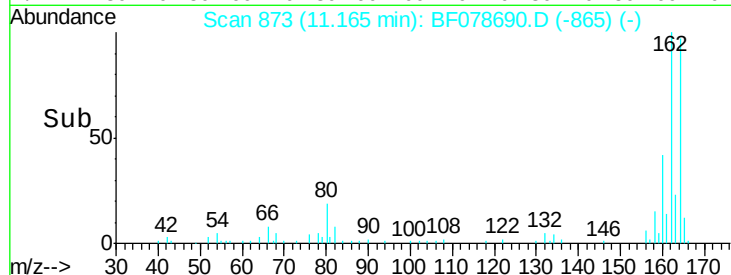
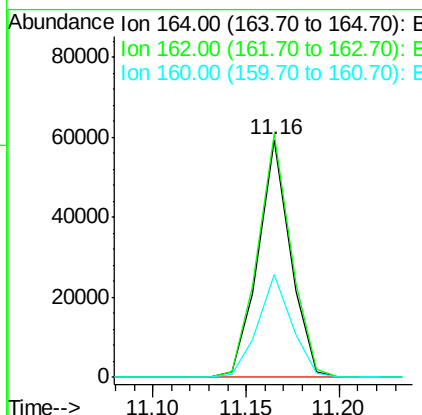
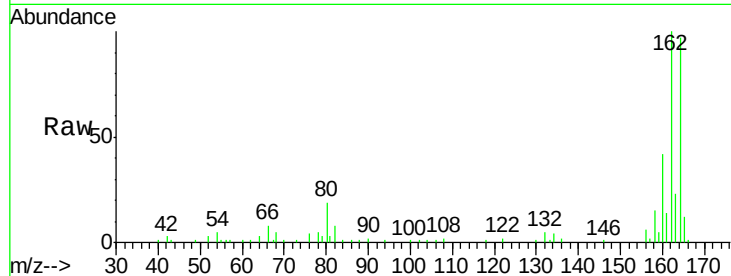
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.16 min Scan# 873
 Delta R.T. -0.01 min
 Lab File: BF078690.D
 Acq: 21 Apr 2015 18:32

Instrument :
 BNA_F
 ClientSampleId :
 SB-67AS

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.2	123.2
160	43.2	34.7	52.1

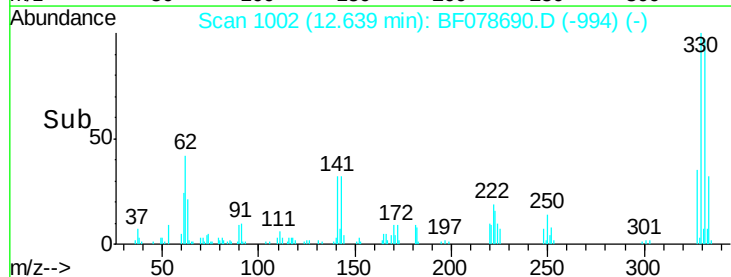
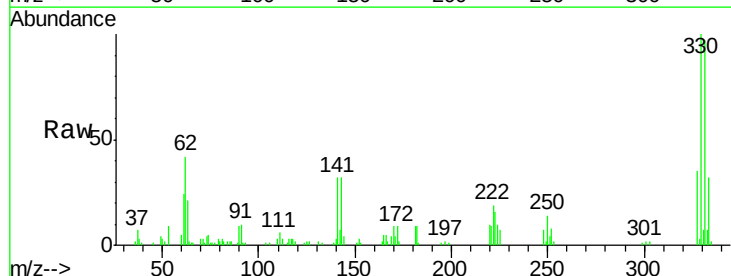
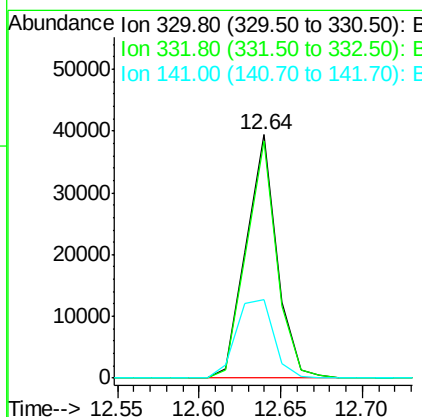
Manual Integrations
 APPROVED

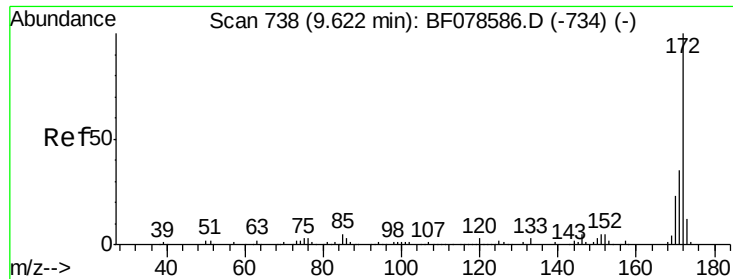
apatel
 4/22/2015 5:22:13 PM



#41
 2,4,6-Tribromophenol
 Concen: 86.98 ng
 RT: 12.64 min Scan# 1002
 Delta R.T. -0.01 min
 Lab File: BF078690.D
 Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.6	117.8
141	39.2	31.2	46.8





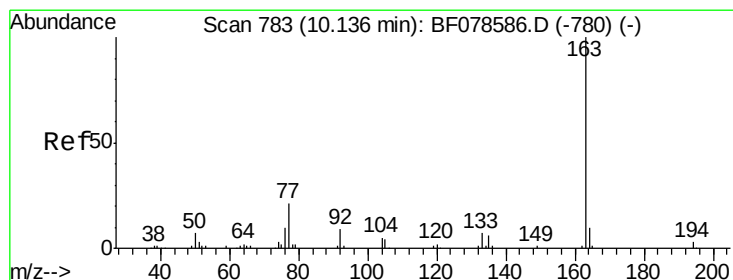
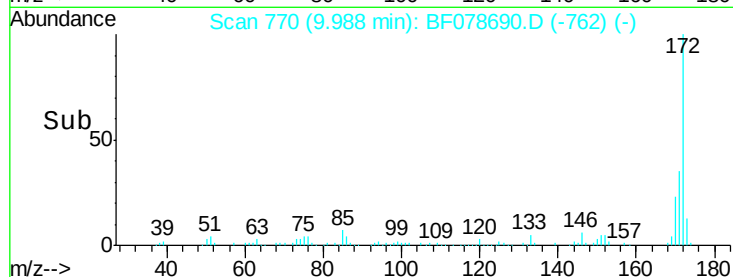
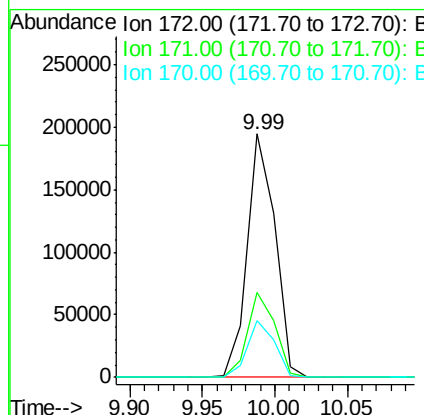
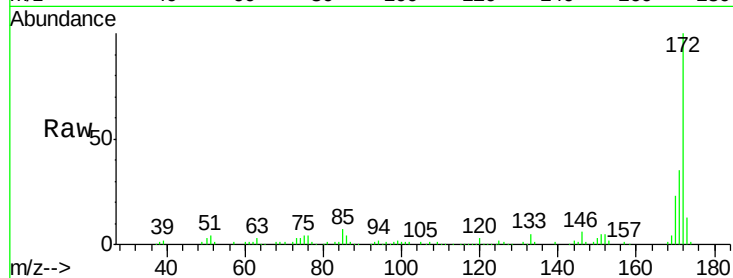
#44
2-Fluorobiphenyl
Concen: 51.60 ng
RT: 9.99 min Scan# 770
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampled :
SB-67AS

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.0	28.6	42.8	
170	23.5	18.5	27.7	

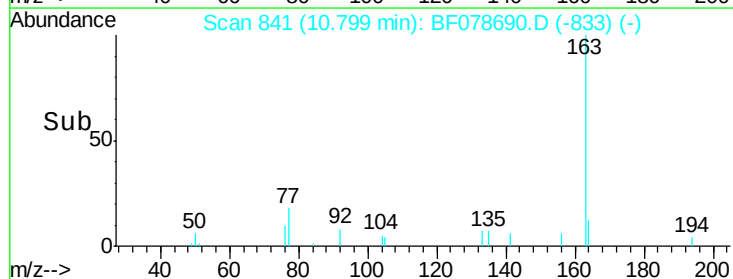
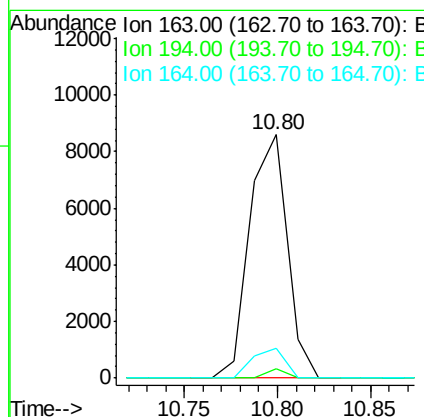
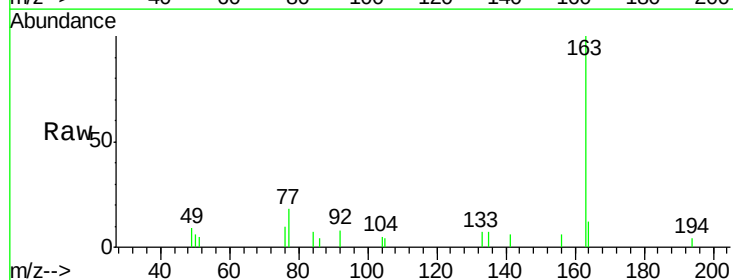
Manual Integrations
APPROVED

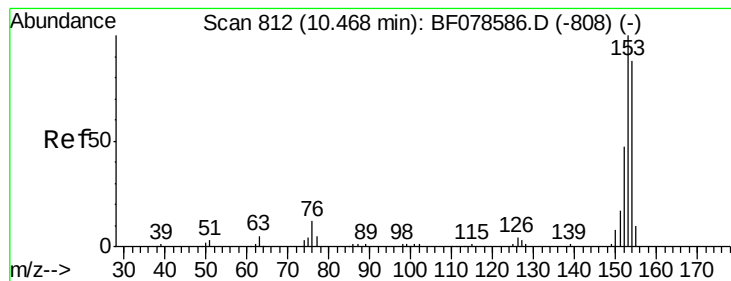
apatel
4/22/2015 5:22:13 PM



#49
Dimethylphthalate
Concen: 2.24 ng
RT: 10.80 min Scan# 841
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.6	2.3	3.5#	
164	12.2	8.6	13.0	





#51

Acenaphthene

Concen: 3.36 ng

RT: 11.22 min Scan# 878

Delta R.T. -0.01 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Instrument :

BNA_F

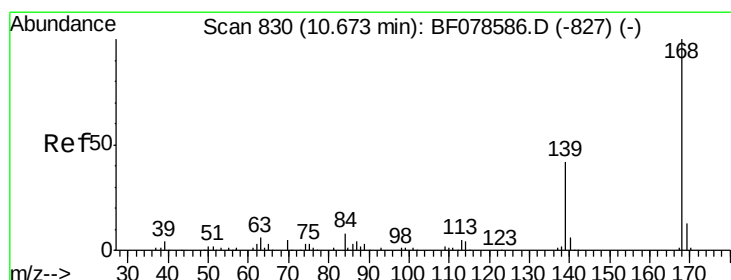
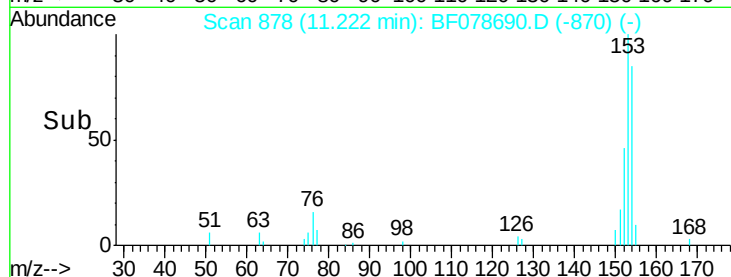
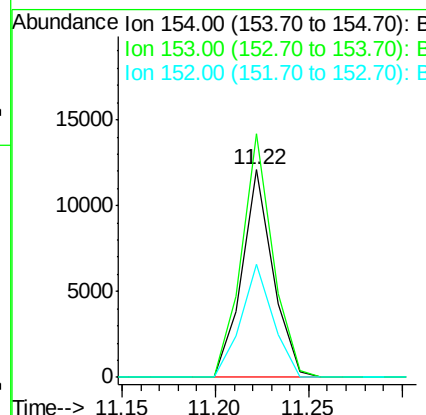
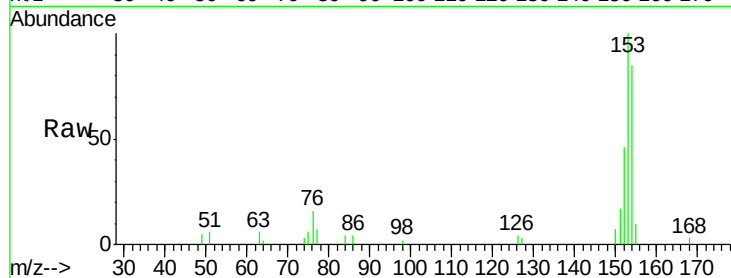
ClientSampleId :

SB-67AS

Tot Ion:	154	Resp:	14079
Ion Ratio	Lower	Upper	
154	100		
153	117.3	91.4	137.2
152	54.5	43.0	64.6

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM



#54

Dibenzofuran

Concen: 2.42 ng

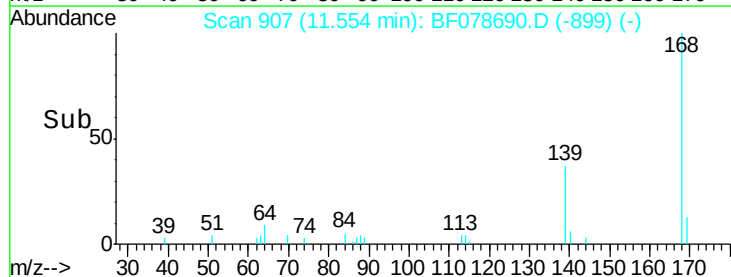
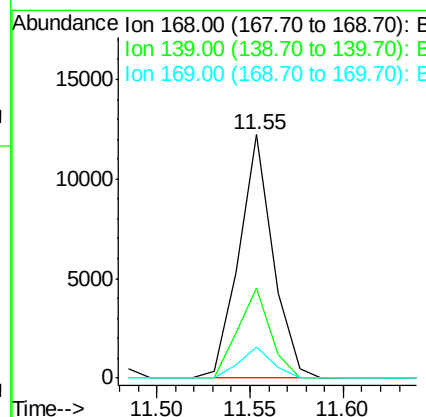
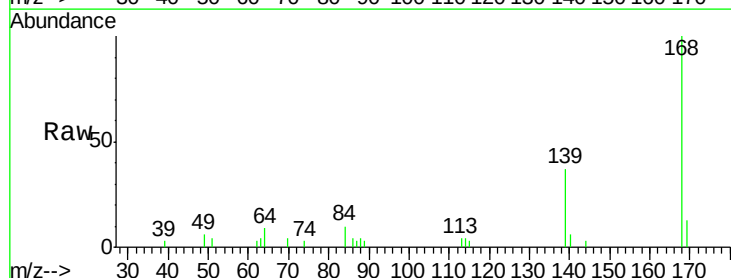
RT: 11.55 min Scan# 907

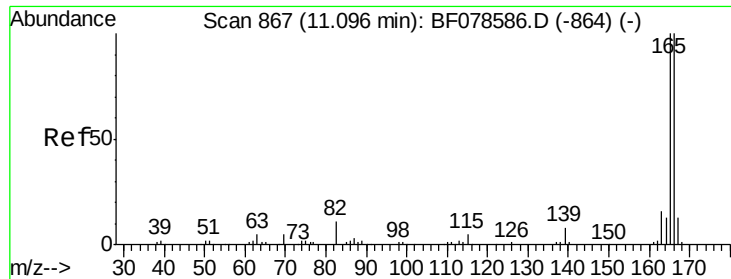
Delta R.T. -0.01 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Tgt Ion:	168	Resp:	15472
Ion Ratio	Lower	Upper	
168	100		
139	36.9	31.0	46.4
169	12.8	10.7	16.1





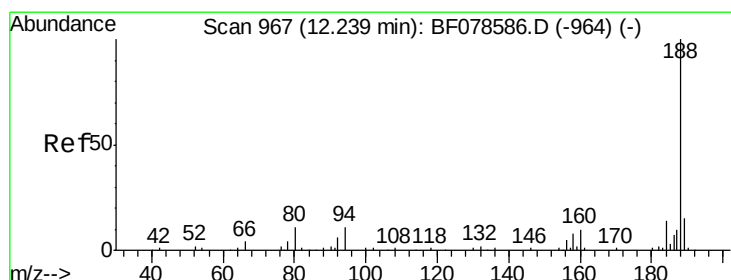
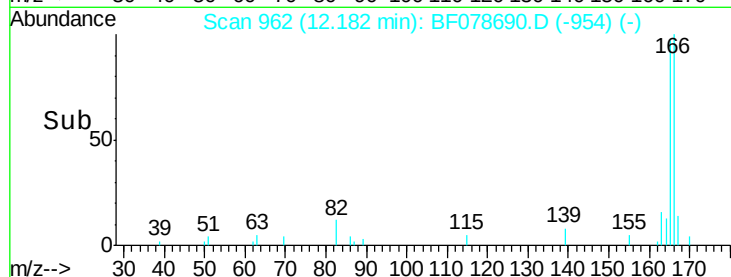
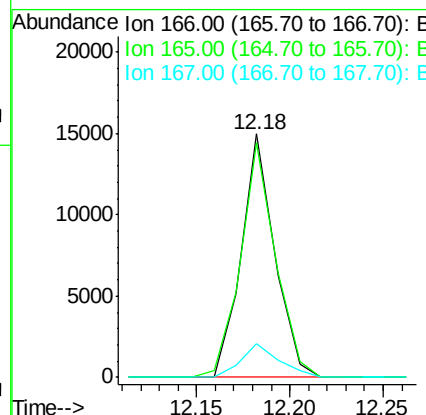
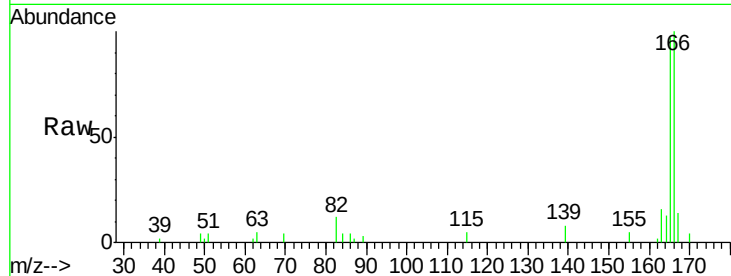
#57
Fluorene
Concen: 3.58 ng
RT: 12.18 min Scan# 962
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampleId :
SB-67AS

Tot Ion	Ratio	Resp	Lower	Upper
166	100	18605		
165	96.5	78.9	118.3	
167	13.8	10.7	16.1	

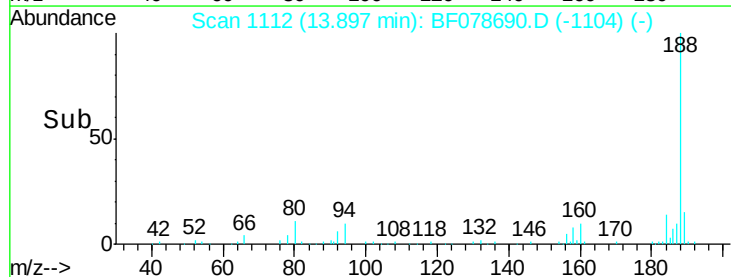
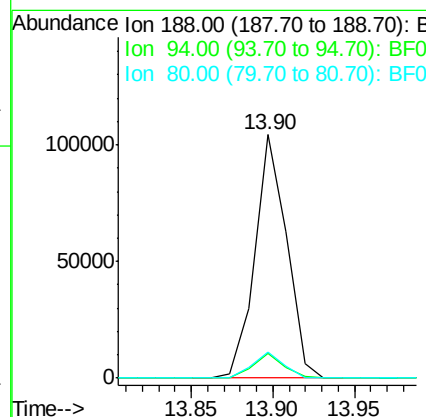
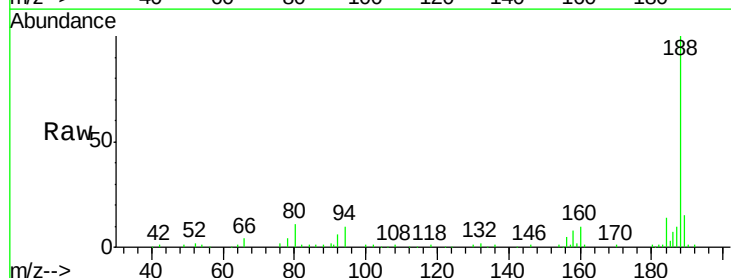
Manual Integrations
APPROVED

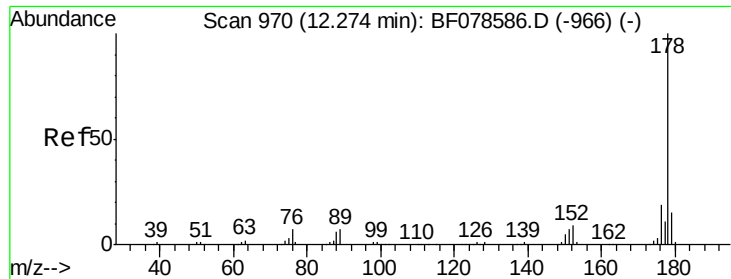
apatel
4/22/2015 5:22:13 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 13.90 min Scan# 1112
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	140372		
94	10.1	9.0	13.4	
80	10.7	9.5	14.3	





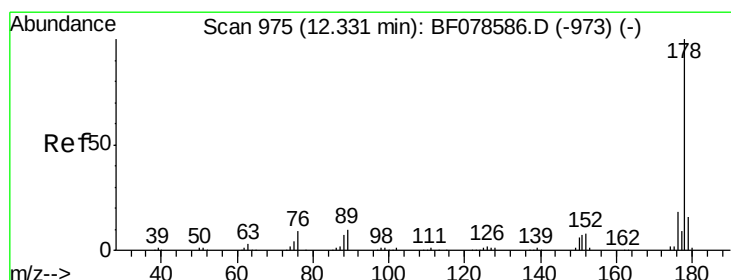
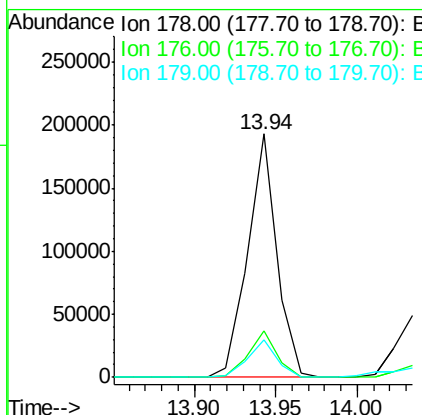
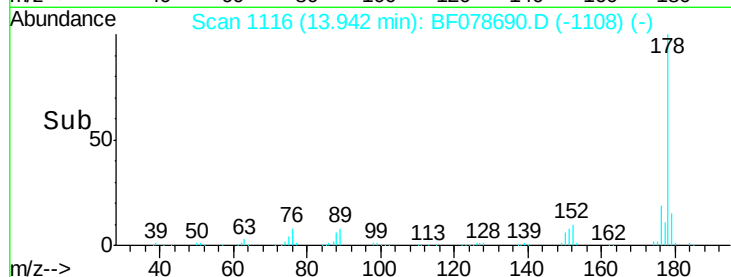
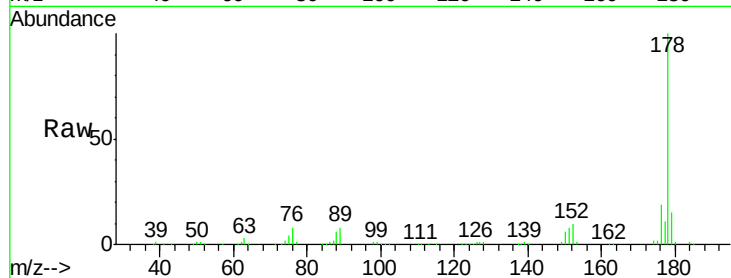
#70
Phenanthrene
Concen: 29.43 ng
RT: 13.94 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampleId :
SB-67AS

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.3	12.2	18.2

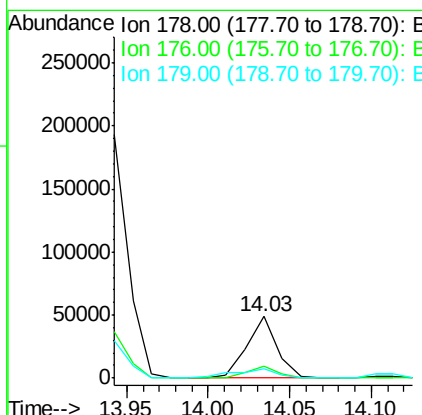
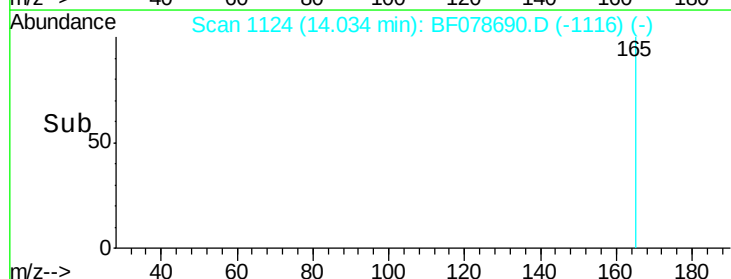
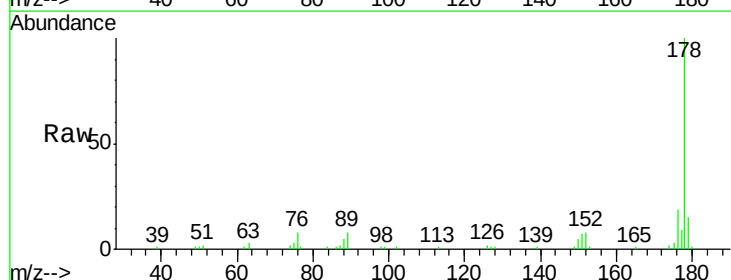
Manual Integrations
APPROVED

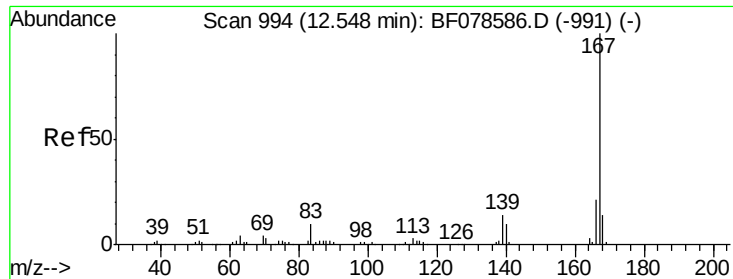
apatel
4/22/2015 5:22:13 PM



#71
Anthracene
Concen: 7.89 ng
RT: 14.03 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.8	22.2
179	15.5	12.4	18.6





#72

Carbazole

Concen: 3.31 ng

RT: 14.37 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Instrument :

BNA_F

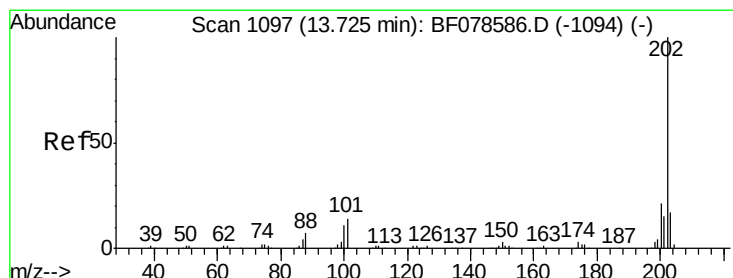
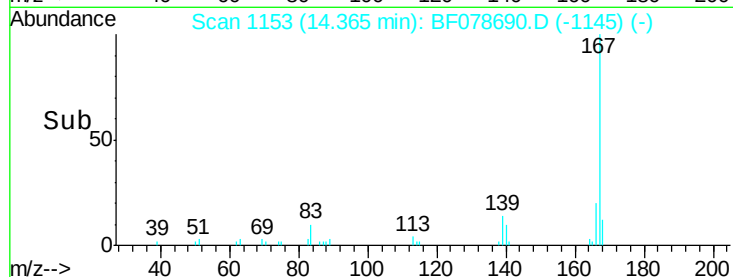
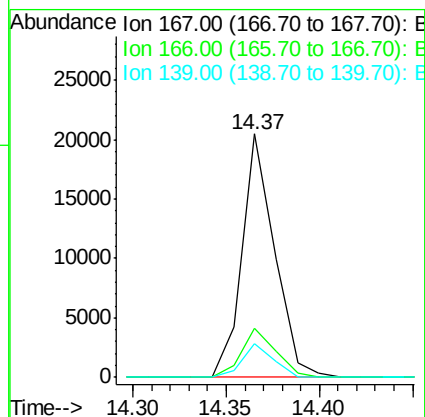
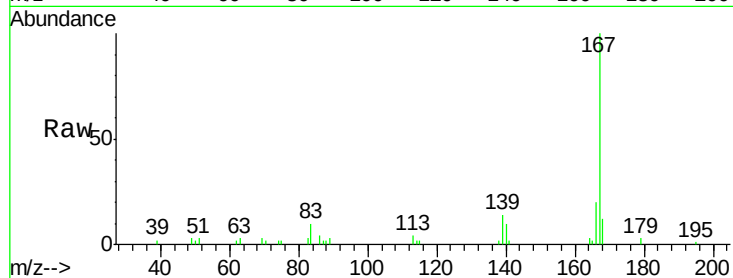
ClientSampled :

SB-67AS

Tot Ion:	167	Resp:	24831
Ion Ratio	Lower	Upper	
167	100		
166	20.2	16.8	25.2
139	13.8	10.0	15.0

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM



#74

Fluoranthene

Concen: 34.30 ng

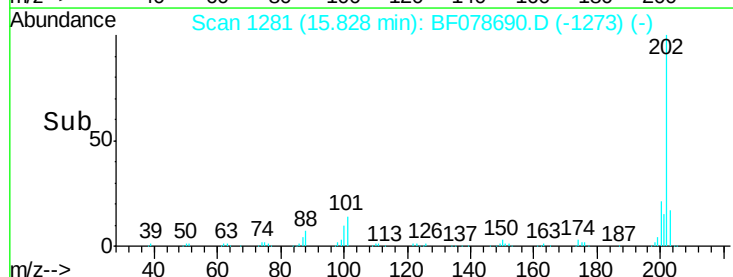
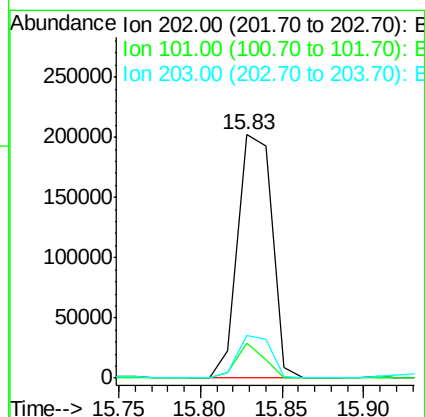
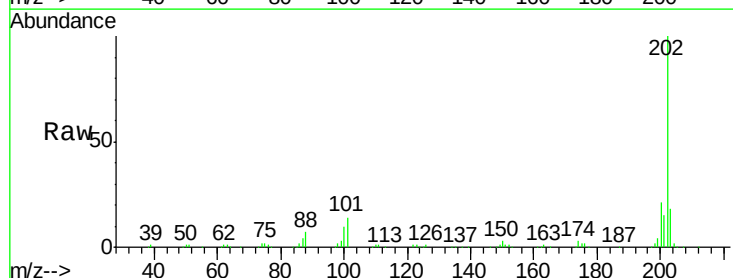
RT: 15.83 min Scan# 1281

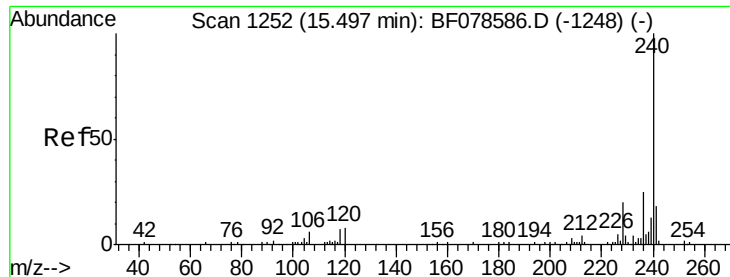
Delta R.T. -0.01 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Tgt Ion:	202	Resp:	293685
Ion Ratio	Lower	Upper	
202	100		
101	14.5	0.0	35.2
203	17.6	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 17.77 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Instrument :

BNA_F

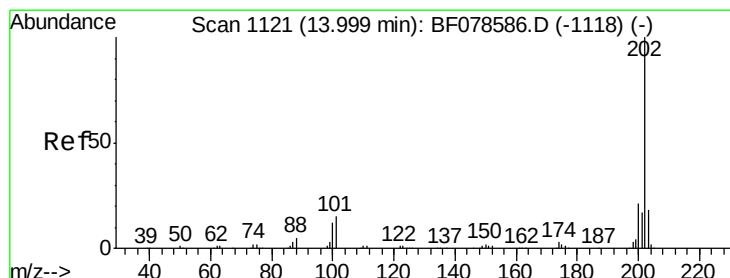
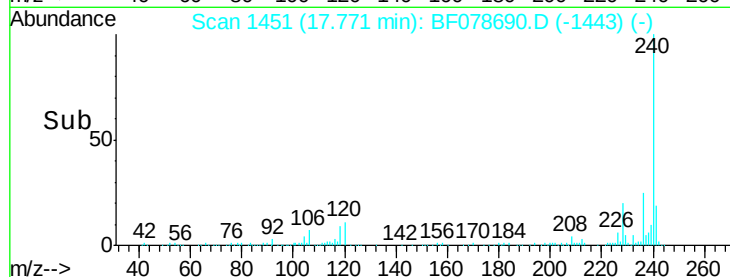
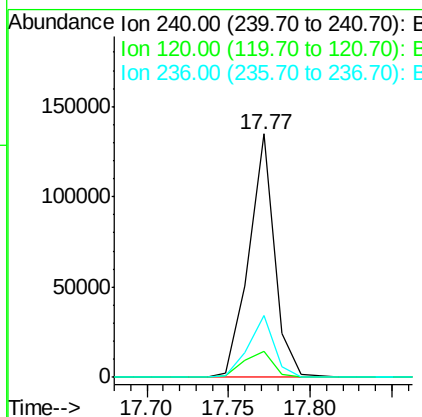
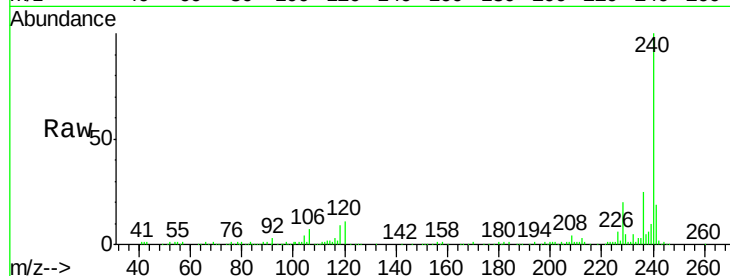
ClientSampleId :

SB-67AS

Tot Ion:	240	Resp:	146980
Ion Ratio	Lower	Upper	
240	100		
120	10.9	7.1	10.7#
236	25.3	21.4	32.2

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM



#77

Pyrene

Concen: 29.36 ng

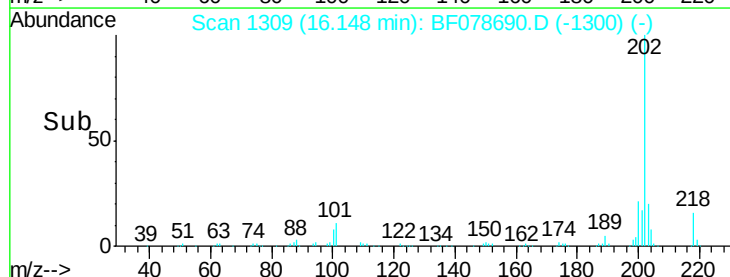
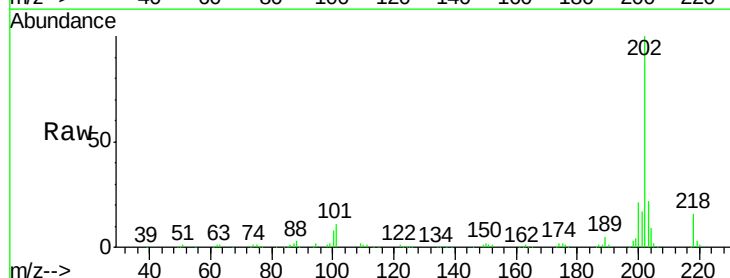
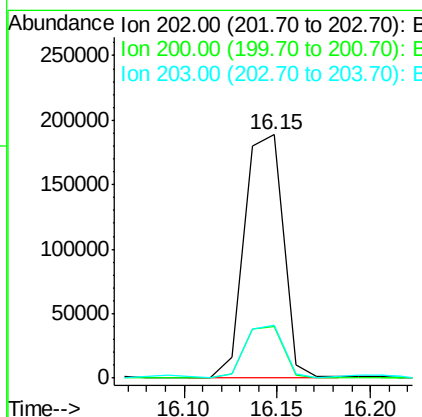
RT: 16.15 min Scan# 1309

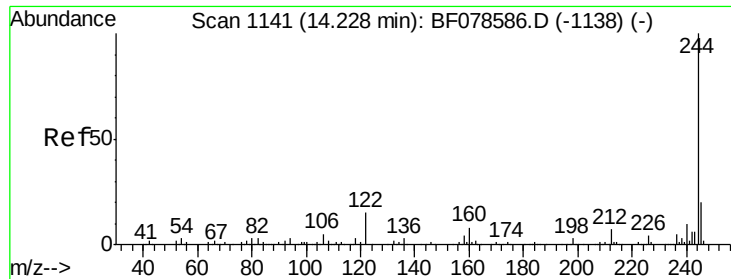
Delta R.T. -0.00 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Tgt Ion:	202	Resp:	270853
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.3	24.5
203	21.8	13.8	20.6#





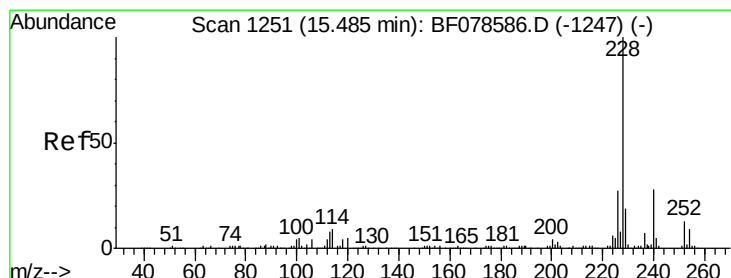
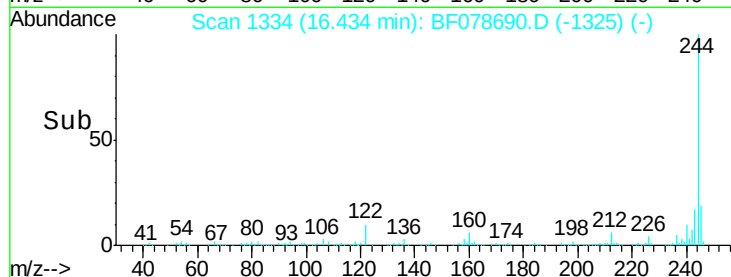
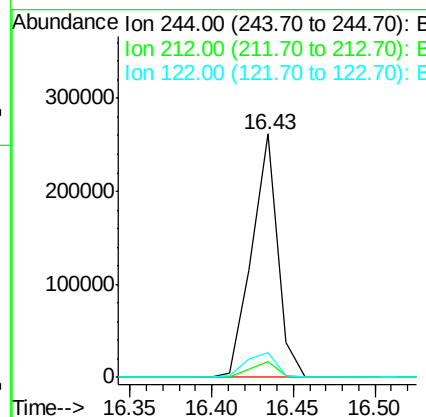
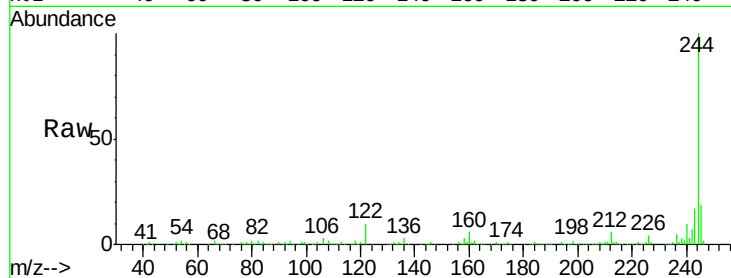
#78
 Terphenyl-d14
 Concen: 44.30 ng
 RT: 16.43 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: BF078690.D
 Acq: 21 Apr 2015 18:32

Instrument :
 BNA_F
 ClientSampleId :
 SB-67AS

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	6.5	5.0	7.4
122	10.2	7.1	10.7

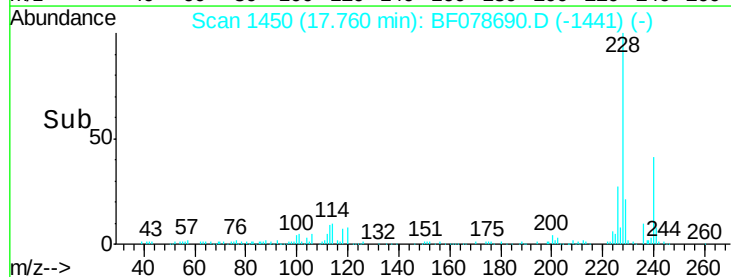
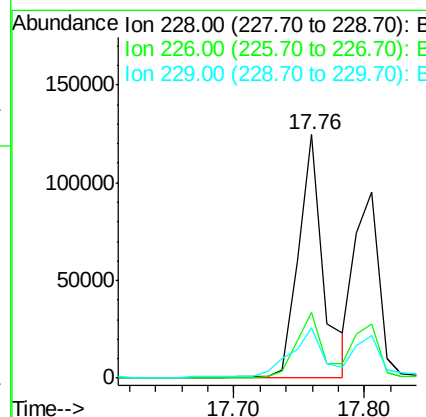
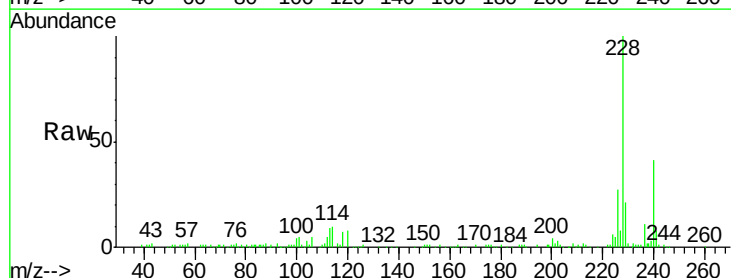
Manual Integrations
 APPROVED

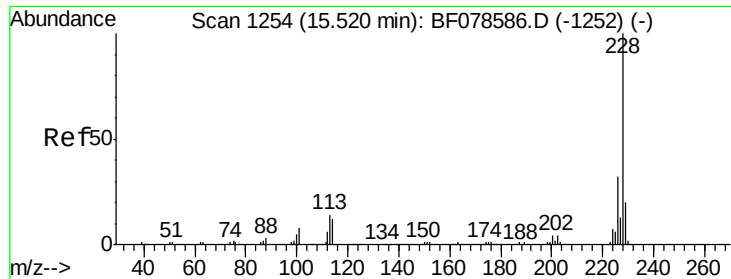
apatel
 4/22/2015 5:22:13 PM



#80
 Benzo(a)anthracene
 Concen: 18.83 ng
 RT: 17.76 min Scan# 1450
 Delta R.T. -0.00 min
 Lab File: BF078690.D
 Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	26.9	21.3	31.9
229	20.9	15.4	23.2





#82

Chrysene

Concen: 14.93 ng

RT: 17.81 min Scan# 1454

Delta R.T. -0.00 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Instrument :

BNA_F

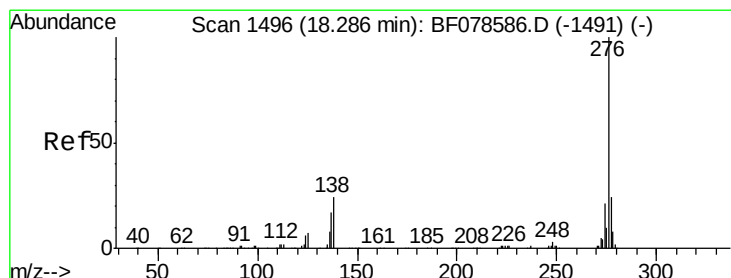
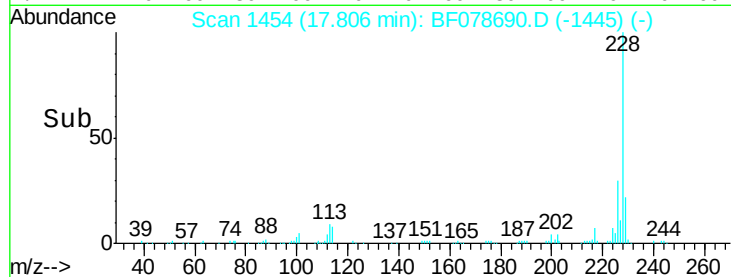
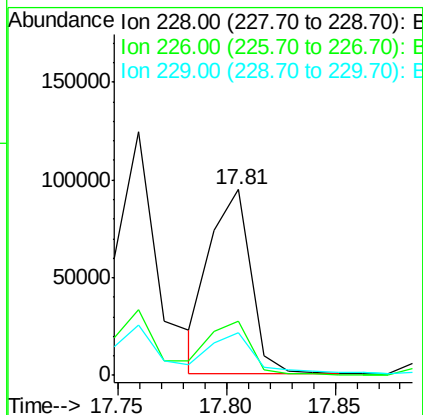
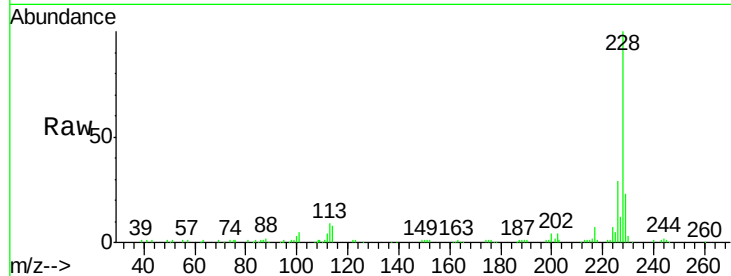
ClientSampleId :

SB-67AS

Tot Ion:	228	Resp:	122674
Ion Ratio		Lower	Upper
228	100		
226	29.3	24.2	36.4
229	22.8	15.8	23.8

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.66 ng

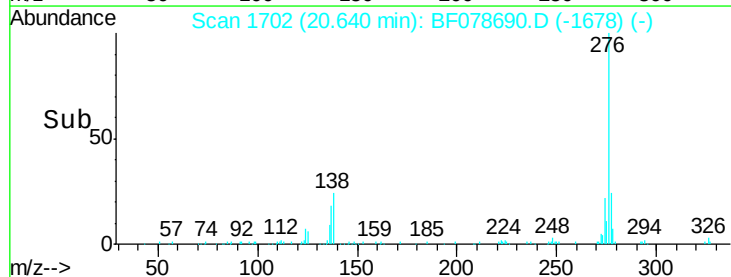
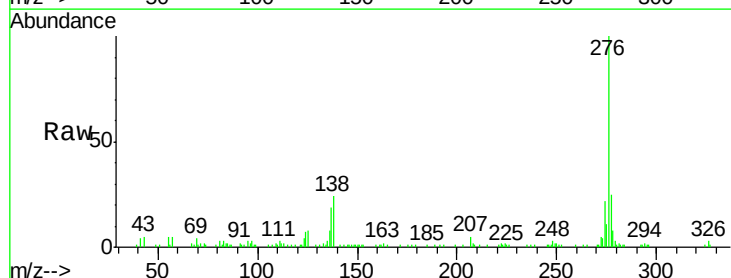
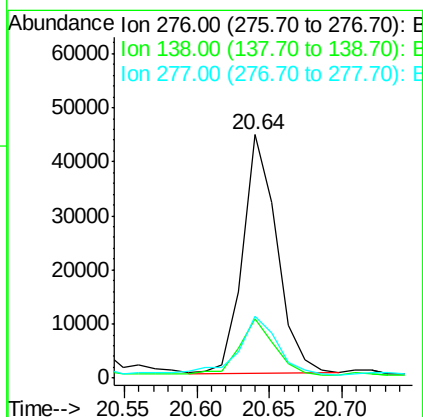
RT: 20.64 min Scan# 1702

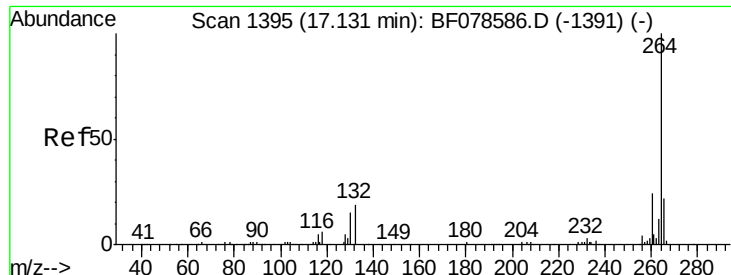
Delta R.T. -0.02 min

Lab File: BF078690.D

Acq: 21 Apr 2015 18:32

Tgt Ion:	276	Resp:	71438
Ion Ratio		Lower	Upper
276	100		
138	27.2	16.9	25.3#
277	29.1	15.8	23.6#





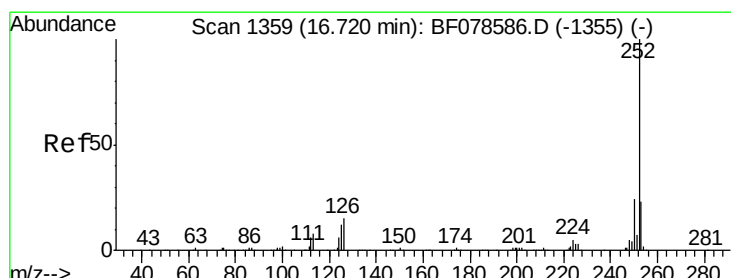
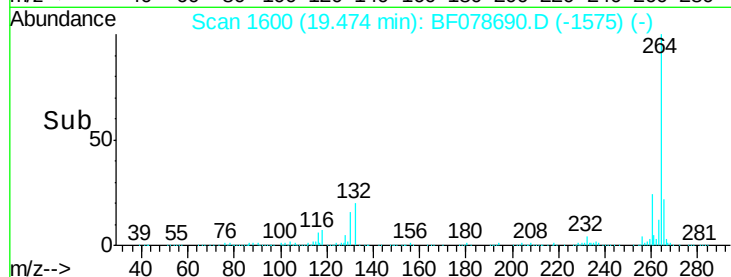
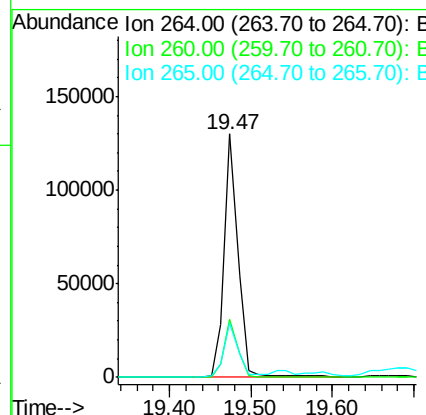
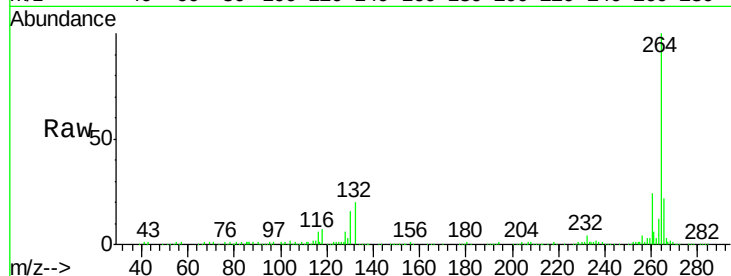
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.47 min Scan# 1600
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampleId :
SB-67AS

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.6	27.8
265	22.5	17.0	25.6

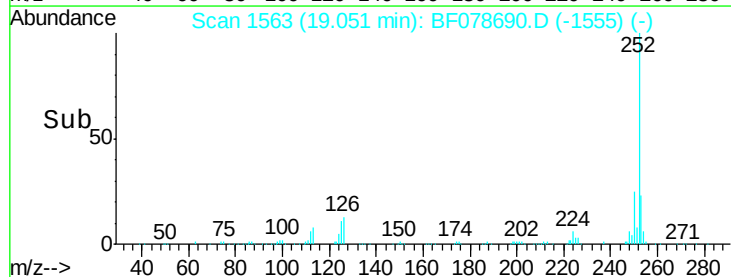
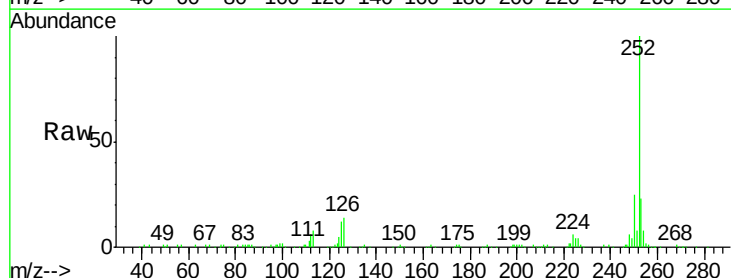
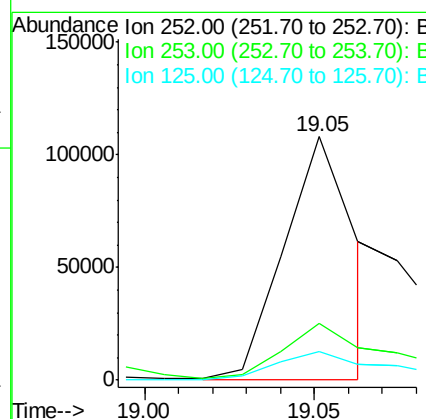
Manual Integrations
APPROVED

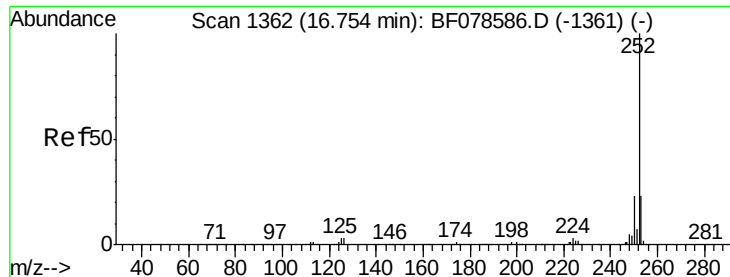
apatel
4/22/2015 5:22:13 PM



#87
Benzo(b)fluoranthene
Concen: 16.42 ng m
RT: 19.05 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.2	25.8
125	11.8	7.0	10.4





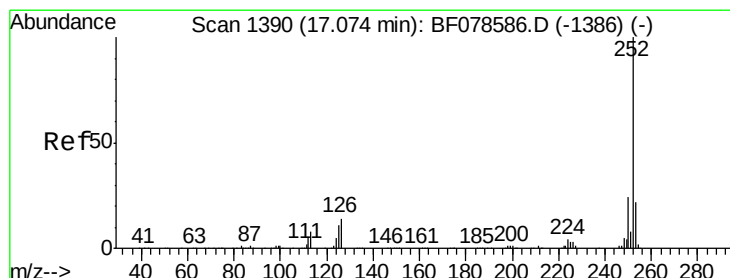
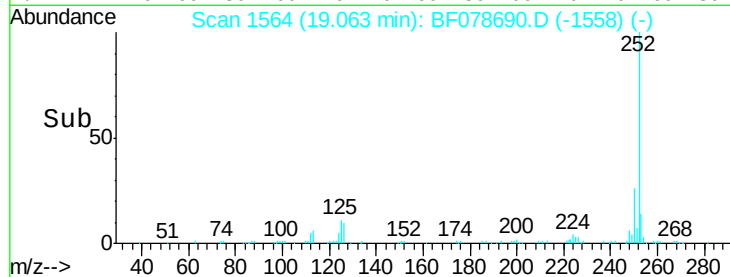
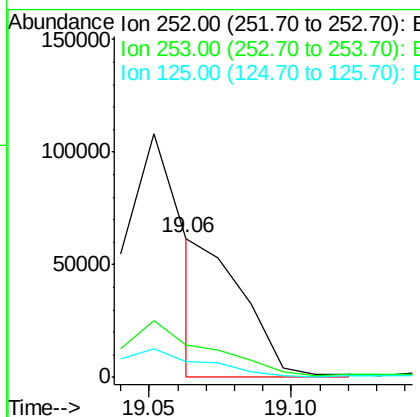
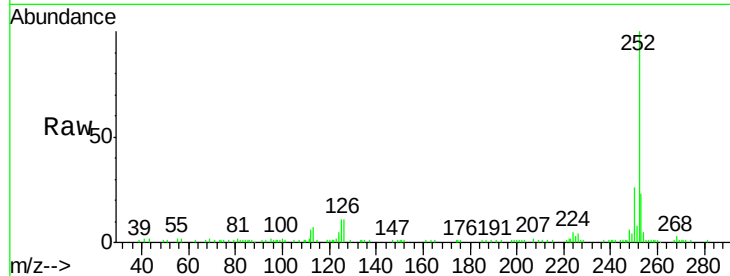
#88
Benzo(k)fluoranthene
Concen: 7.39 ng/mL
RT: 19.06 min Scan# 1564
Delta R.T. -0.03 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampleID :
SB-67AS

Tot Ion:	252	Resp:	63037
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.5	26.3
125	11.1	11.6	17.4

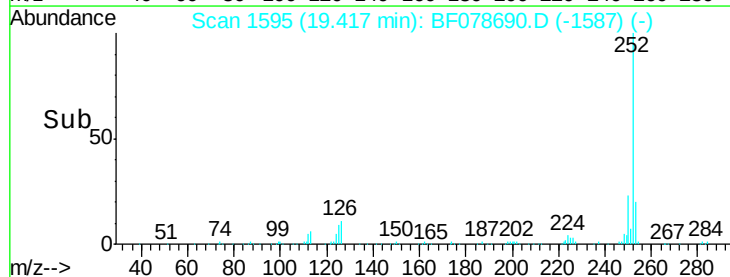
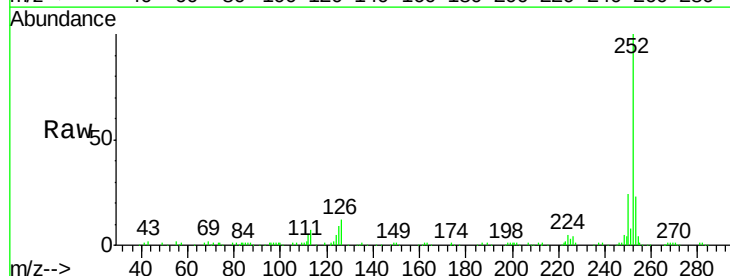
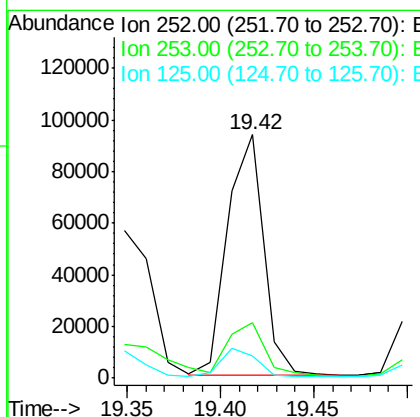
Manual Integrations
APPROVED

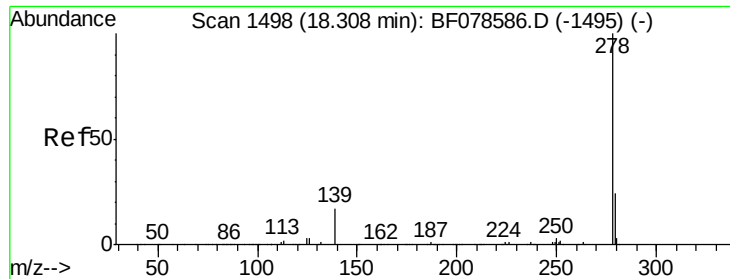
apatel
4/22/2015 5:22:13 PM



#89
Benzo(a)pyrene
Concen: 15.13 ng/mL
RT: 19.42 min Scan# 1595
Delta R.T. -0.01 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion:	252	Resp:	126720
Ion Ratio	Lower	Upper	
252	100		
253	22.9	16.8	25.2
125	9.2	7.4	11.0





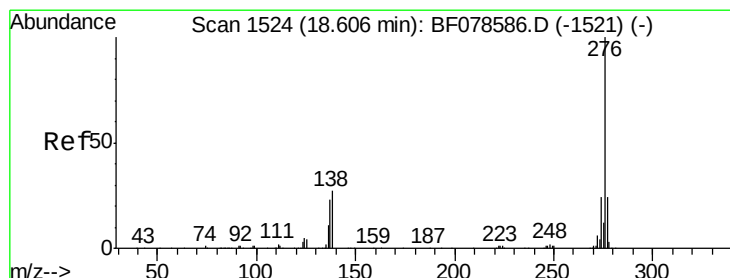
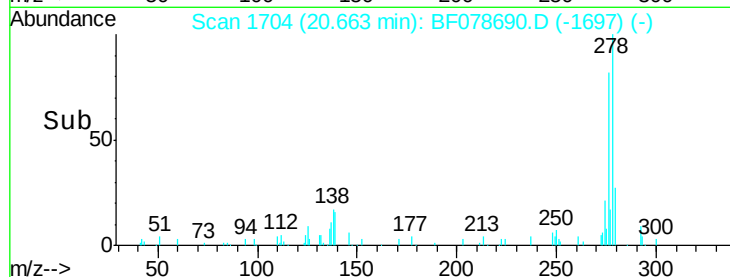
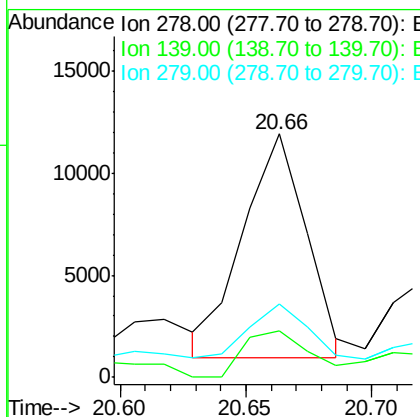
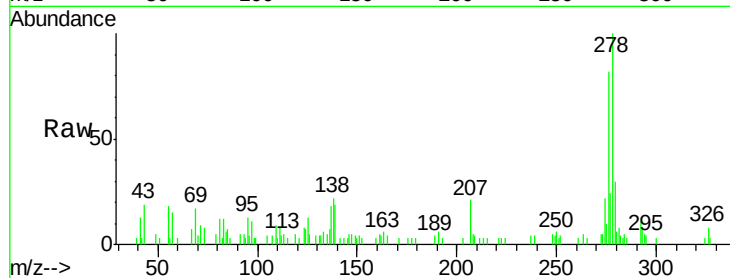
#90
Dibenzo(a,h)anthracene
Concen: 2.29 ng/mL
RT: 20.66 min Scan# 1704
Delta R.T. -0.02 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Instrument :
BNA_F
ClientSampleId :
SB-67AS

Tot Ion:278	Resp:	19183
Ion Ratio	Lower	Upper
278	100	
139	19.2	13.6 20.4
279	30.2	19.0 28.6#

Manual Integrations
APPROVED

apatel
4/22/2015 5:22:13 PM



#91
Benzo(g,h,i)perylene
Concen: 8.46 ng/mL
RT: 20.96 min Scan# 1730
Delta R.T. -0.02 min
Lab File: BF078690.D
Acq: 21 Apr 2015 18:32

Tgt Ion:276	Resp:	71127
Ion Ratio	Lower	Upper
276	100	
277	23.4	19.0 28.4
138	23.8	19.9 29.9

