

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021115\
 Data File : BF077274.D
 Acq On : 12 Feb 2015 6:42
 Operator : TP/IZ
 Sample : G1254-03DL 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

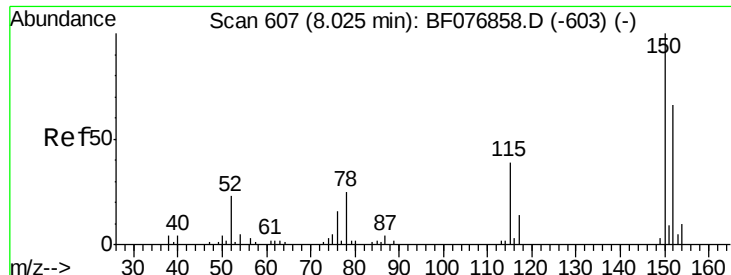
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Quant Time: Feb 12 11:54:44 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 10 13:30:38 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	38030	20.00	ng	-0.06
21) Naphthalene-d8	10.45	136	168806m	20.00	ng	-0.05
38) Acenaphthene-d10	14.57	164	86214	20.00	ng	-0.06
63) Phenanthrene-d10	17.47	188	132384	20.00	ng	-0.03
75) Chrysene-d12	20.99	240	120893	20.00	ng	-0.02
86) Perylene-d12	22.65	264	120441	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.56	112	82406	35.63	ng	-0.03
7) Phenol-d6	6.99	99	102153	35.01	ng	-0.02
23) Nitrobenzene-d5	8.85	82	65591	21.53	ng	-0.05
41) 2,4,6-Tribromophenol	16.34	330	19936	28.49	ng	-0.03
44) 2-Fluorobiphenyl	13.11	172	141252	24.93	ng	-0.06
78) Terphenyl-d14	19.72	244	118884	22.64	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.50	128	36992	4.26	ng	98
37) 2-Methylnaphthalene	12.16	142	15143	2.55	ng	91
51) Acenaphthene	14.65	154	37572	7.46	ng	94
54) Dibenzofuran	15.07	168	43927	5.99	ng	94
57) Fluorene	15.85	166	44193	7.11	ng	92
70) Phenanthrene	17.51	178	512678	62.10	ng	100
71) Anthracene	17.59	178	124233	15.43	ng	99
72) Carbazole	17.88	167	69042	8.84	ng	99
74) Fluoranthene	19.16	202	506091	59.83	ng	99
77) Pyrene	19.45	202	398491	48.10	ng	# 94
80) Benzo(a)anthracene	20.98	228	226321	29.84	ng	99
82) Chrysene	21.01	228	156652	22.65	ng	97
83) Bis(2-ethylhexyl)phthalate	21.14	149	19977	3.85	ng	95
85) Indeno(1,2,3-cd)pyrene	23.77	276	80090m	10.93	ng	
87) Benzo(b)fluoranthene	22.24	252	205512m	25.33	ng	
88) Benzo(k)fluoranthene	22.26	252	69975m	9.87	ng	
89) Benzo(a)pyrene	22.58	252	137821	19.26	ng	# 93
90) Dibenzo(a,h)anthracene	23.79	278	17877m	2.72	ng	
91) Benzo(g,h,i)perylene	24.03	276	69823m	10.70	ng	

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.54 min Scan# 582

Delta R.T. -0.06 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

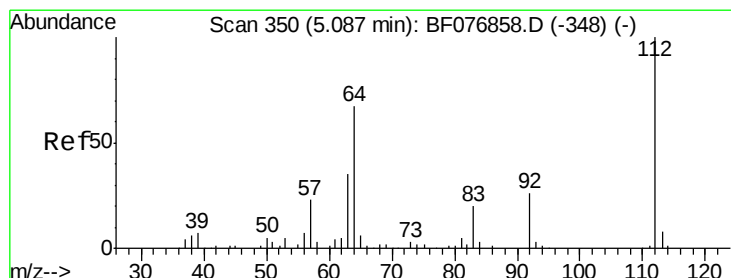
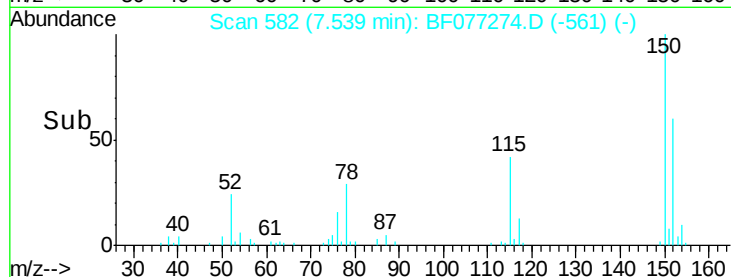
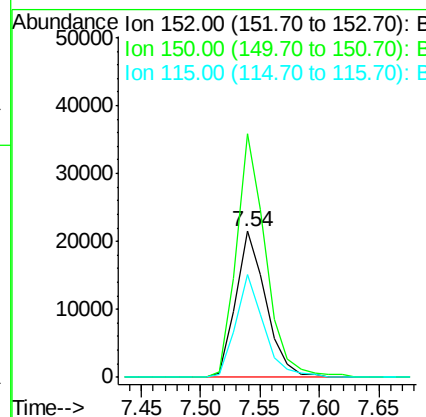
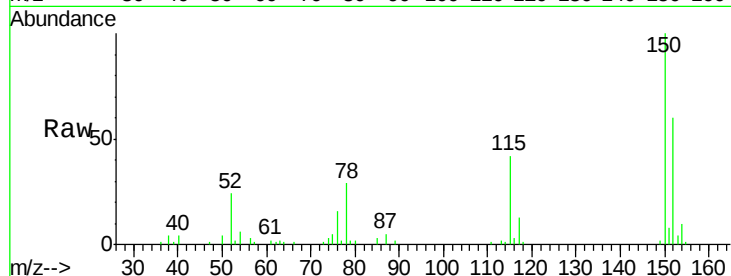
ClientSampleId :

UB10ADL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	167.1	121.7	182.5
115	70.8	47.0	70.6

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#5

2-Fluorophenol

Concen: 35.63 ng

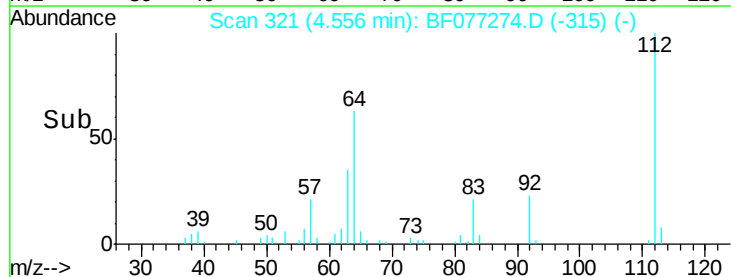
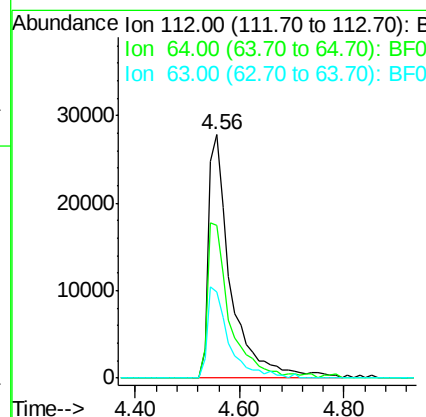
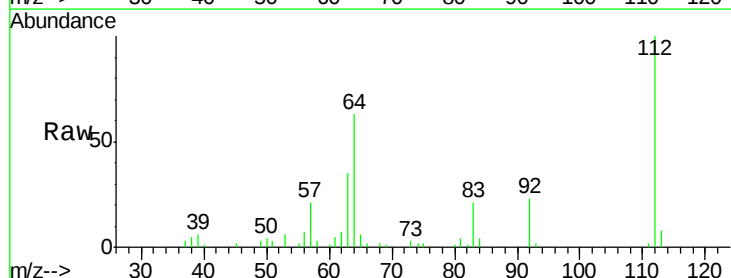
RT: 4.56 min Scan# 321

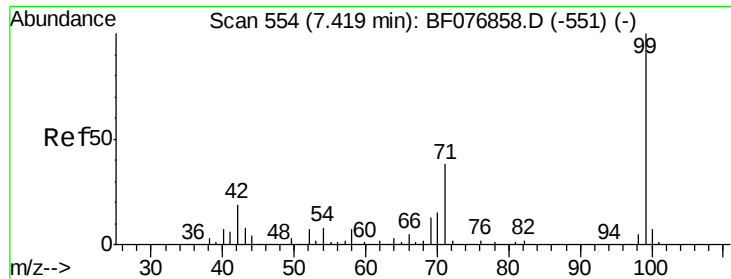
Delta R.T. -0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.6	54.2	81.4
63	35.3	28.4	42.6





#7

Phenol-d6

Concen: 35.01 ng

RT: 6.99 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

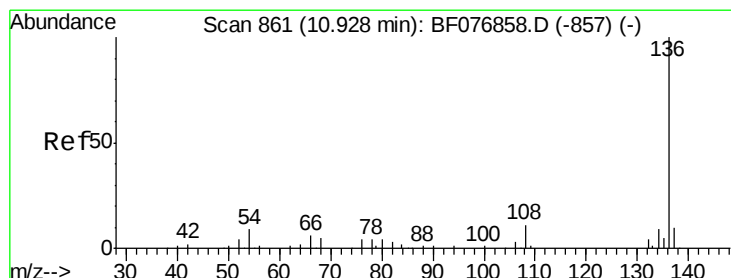
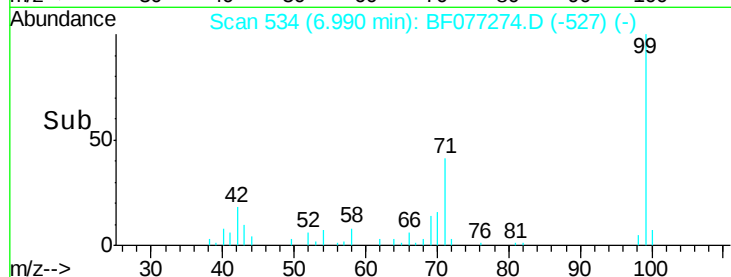
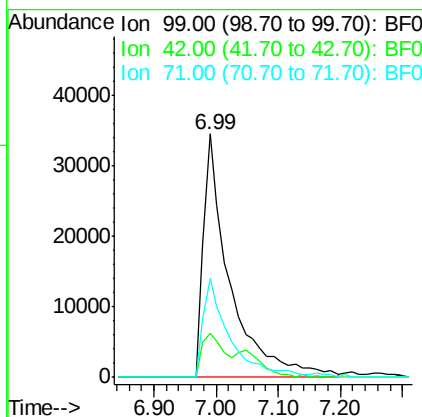
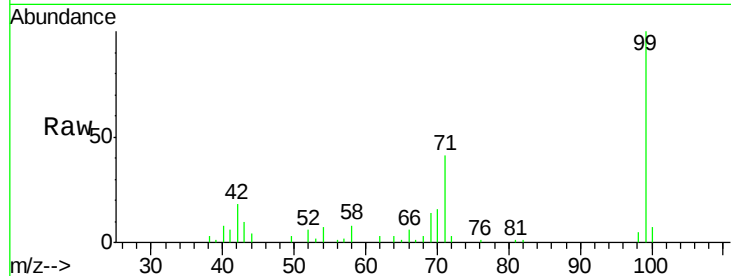
ClientSampleId :

UB10ADL

Tgt Ion:	99	Resp:	102153
Ion Ratio	Lower	Upper	
99	100		
42	18.0	15.0	22.4
71	40.7	30.5	45.7

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#21

Naphthalene-d8

Concen: 20.00 ng m

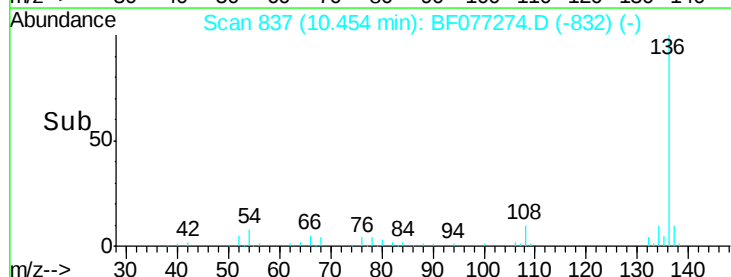
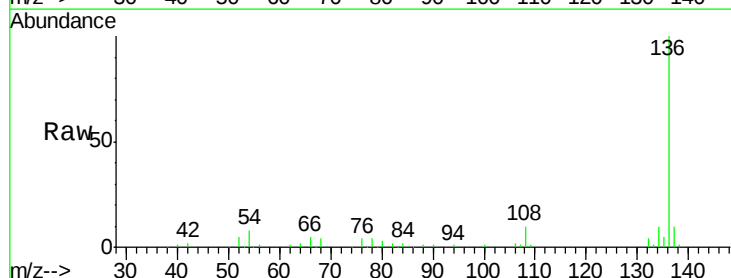
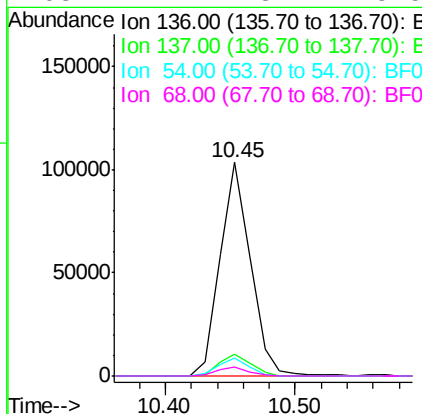
RT: 10.45 min Scan# 837

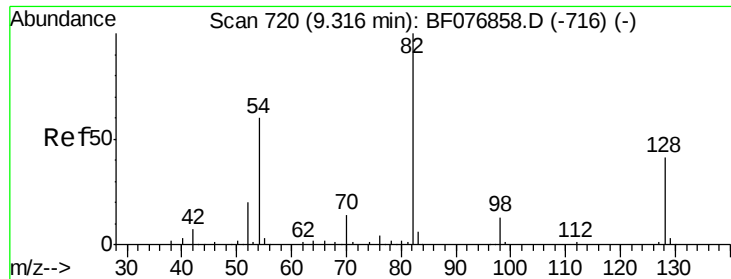
Delta R.T. -0.05 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Tgt Ion:	136	Resp:	168806
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.1	12.1
54	8.5	7.0	10.4
68	4.2	3.7	5.5





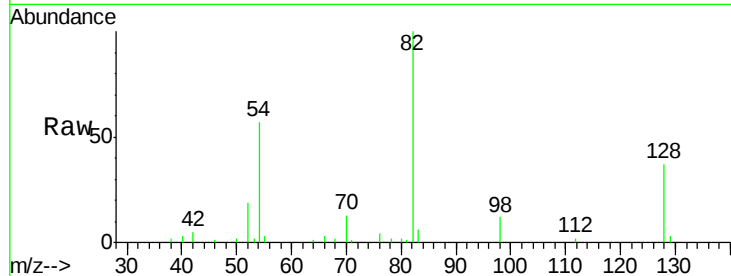
#23
 Nitrobenzene-d5
 Concen: 21.53 ng
 RT: 8.85 min Scan# 697
 Delta R.T. -0.05 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleID :
 UB10ADL

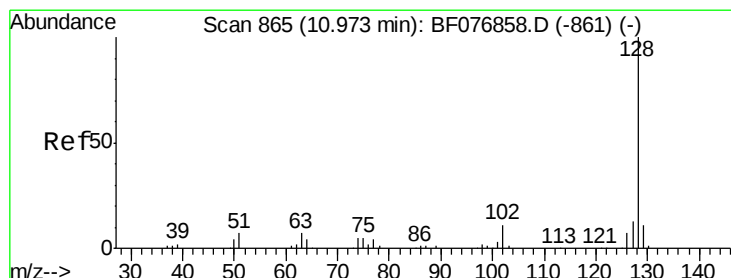
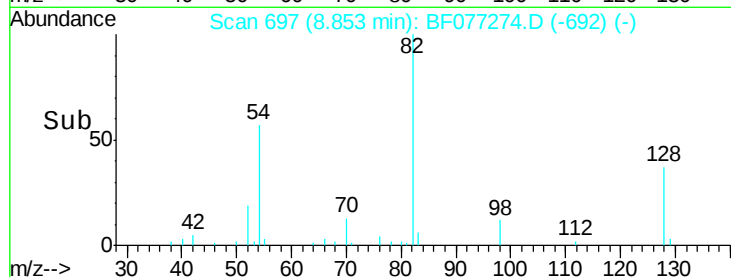
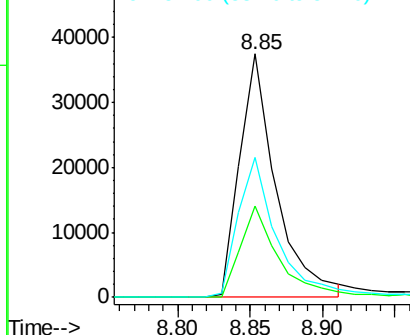
Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	37.5	33.1	49.7
54	57.3	48.3	72.5

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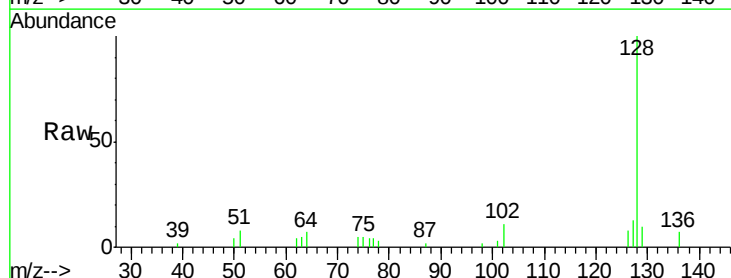


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

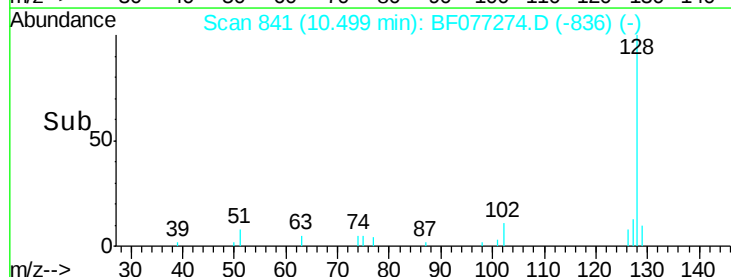
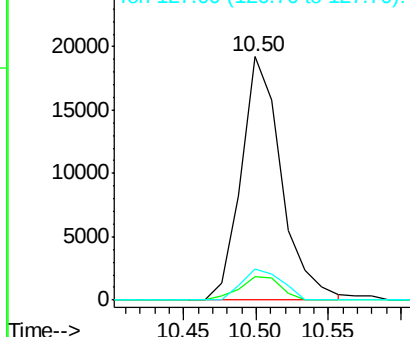


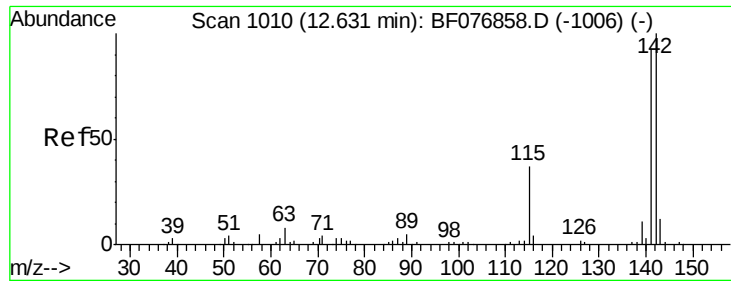
#31
 Naphthalene
 Concen: 4.26 ng
 RT: 10.50 min Scan# 841
 Delta R.T. -0.05 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	9.6	9.0	13.6
127	12.9	10.2	15.2



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





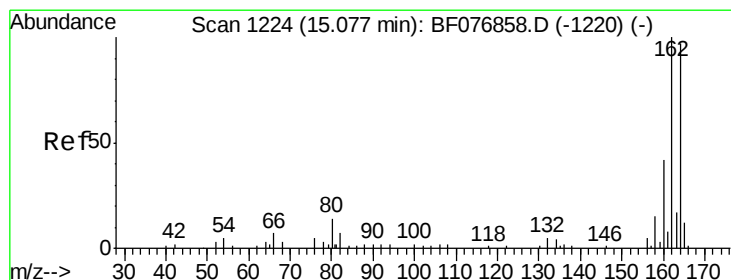
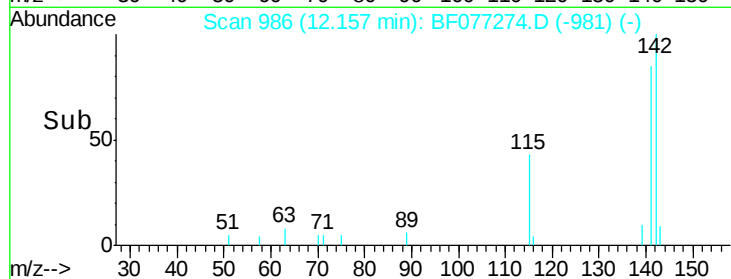
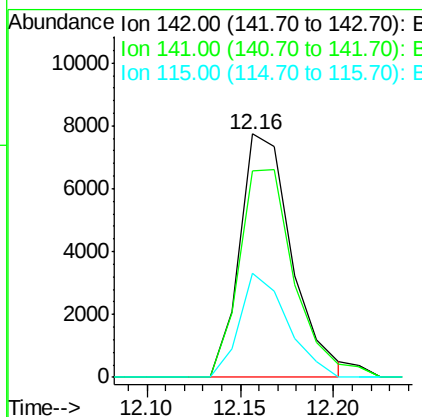
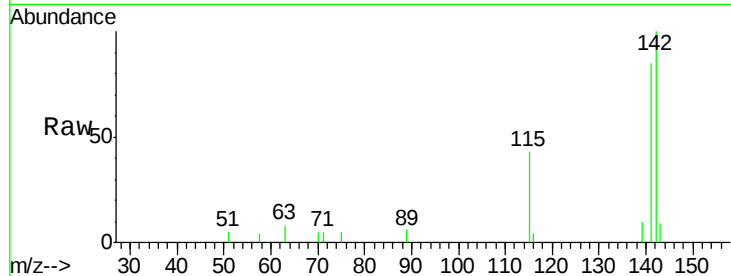
#37
 2-Methylnaphthalene
 Concen: 2.55 ng
 RT: 12.16 min Scan# 986
 Delta R.T. -0.05 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleID :
 UB10ADL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	74.5	111.7
115	43.0	29.7	44.5

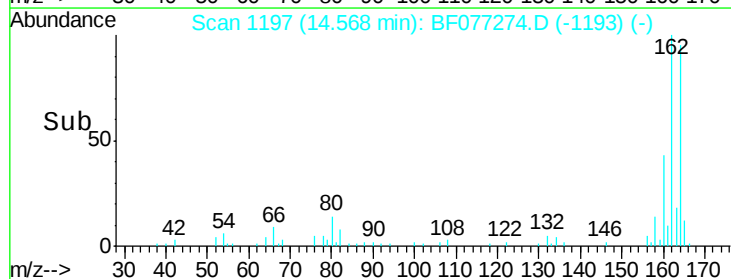
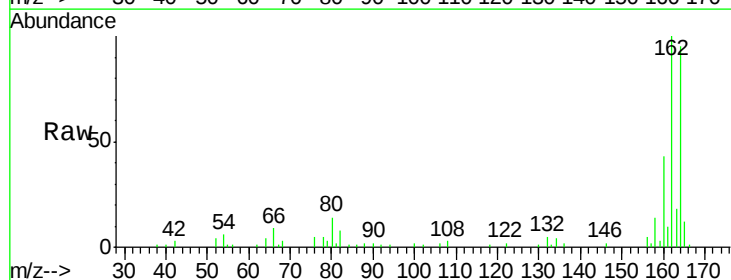
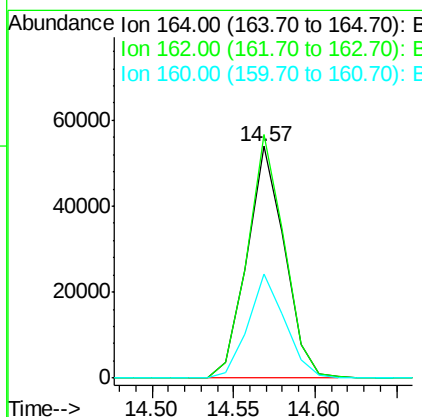
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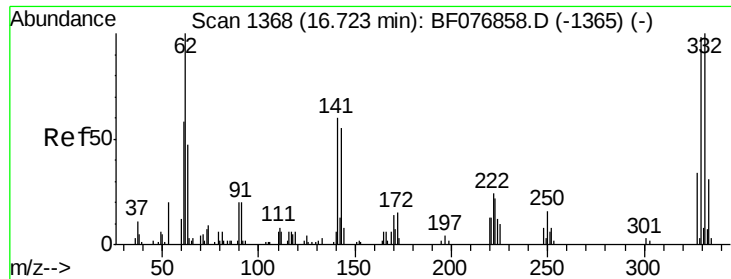
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.57 min Scan# 1197
 Delta R.T. -0.06 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	82.4	123.6
160	45.0	34.8	52.2





#41

2,4,6-Tribromophenol

Concen: 28.49 ng

RT: 16.34 min Scan# 1352

Delta R.T. -0.03 min

Lab File: BF077274.D

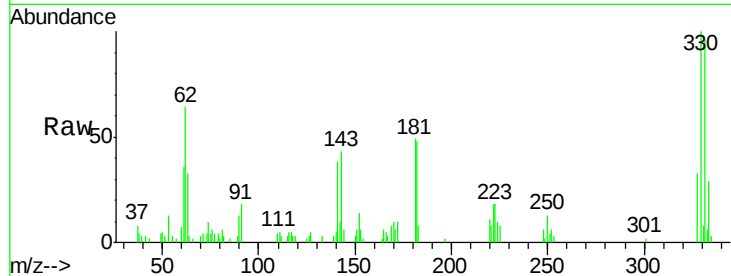
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Instrument :

BNA_F

ClientSampleId :

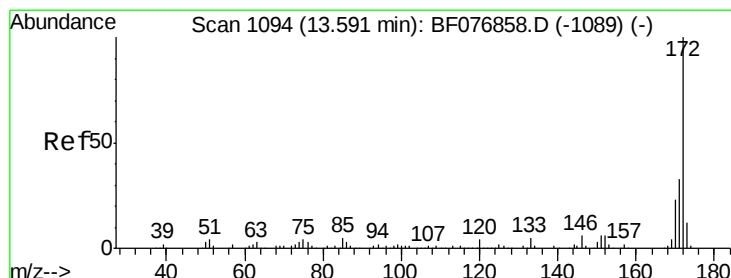
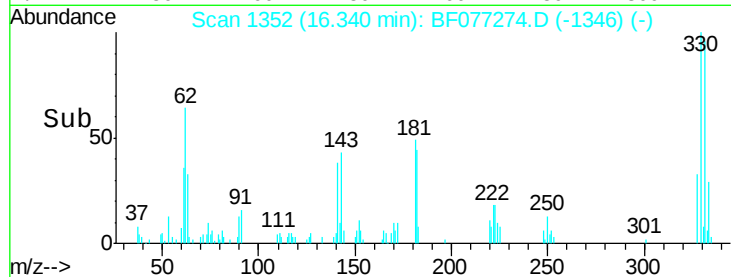
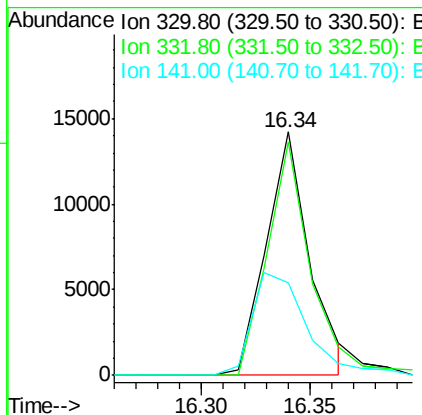
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Tgt Ion:	330	Resp:	19936
Ion Ratio	Lower	Upper	
330	100		
332	92.4	77.8	116.6
141	50.7	38.5	57.7

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#44

2-Fluorobiphenyl

Concen: 24.93 ng

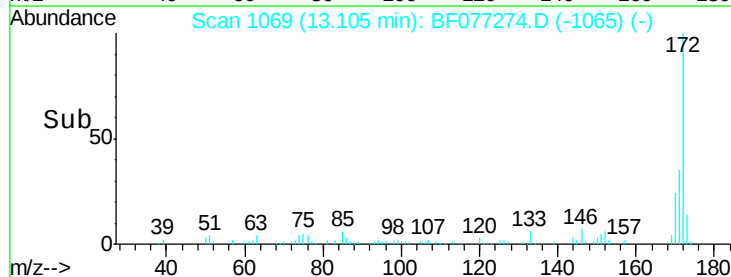
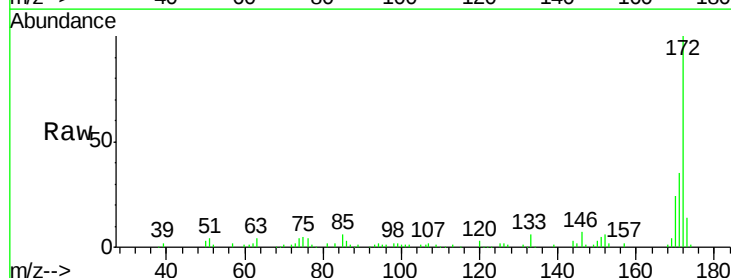
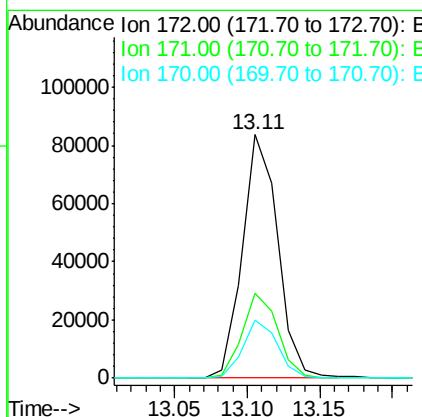
RT: 13.11 min Scan# 1069

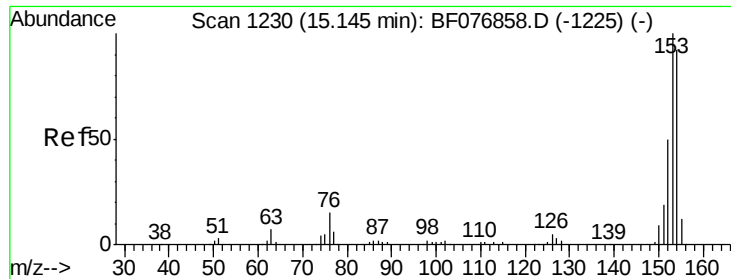
Delta R.T. -0.06 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Tgt Ion:	172	Resp:	141252
Ion Ratio	Lower	Upper	
172	100		
171	34.9	26.6	40.0
170	24.1	18.0	27.0





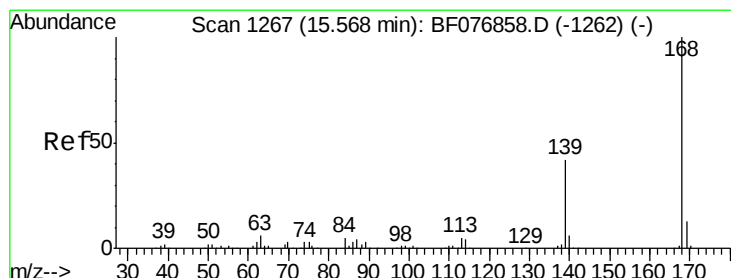
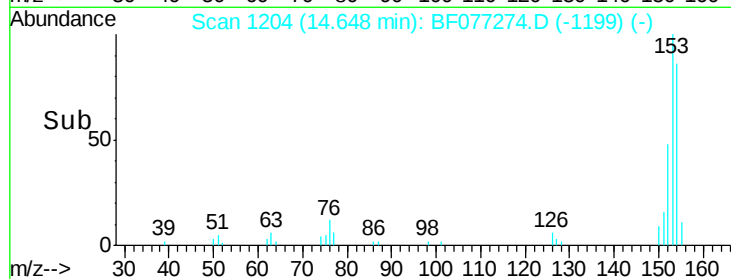
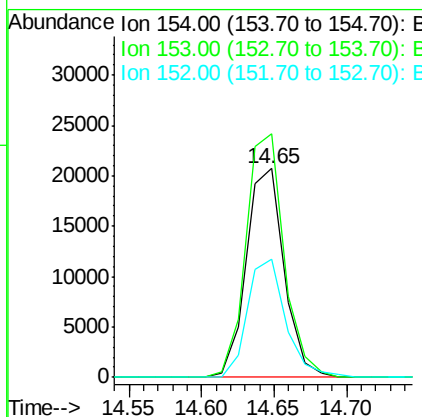
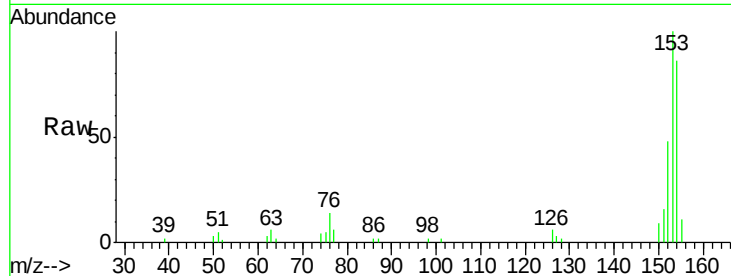
#51
Acenaphthene
Concen: 7.46 ng
RT: 14.65 min Scan# 1204
Delta R.T. -0.05 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Instrument :
BNA_F
ClientSampleId :
UB10ADL

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.7	87.0	130.6
152	56.4	43.5	65.3

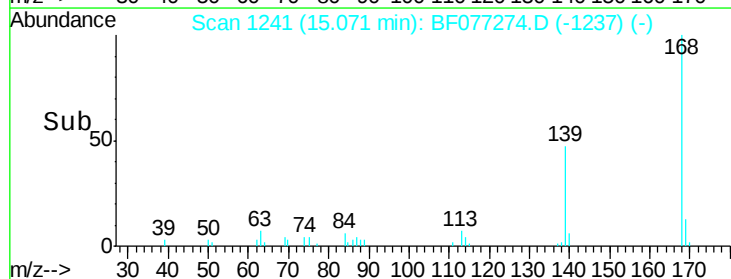
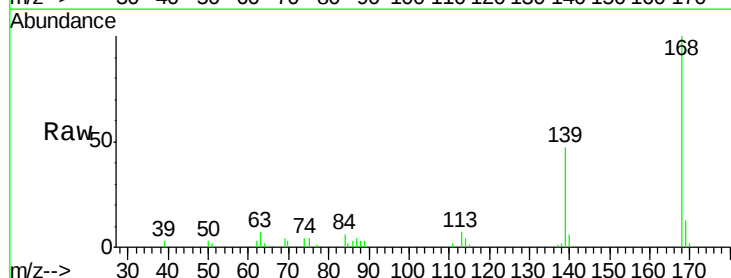
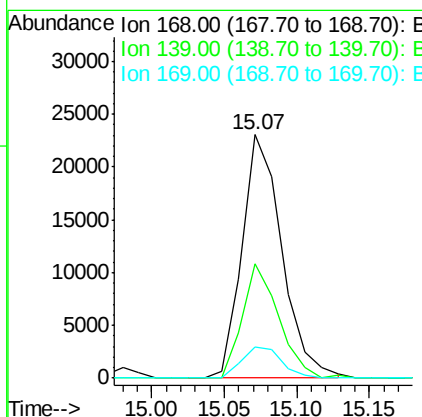
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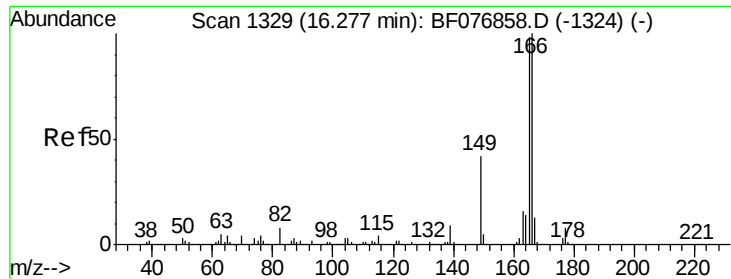
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#54
Dibenzofuran
Concen: 5.99 ng
RT: 15.07 min Scan# 1241
Delta R.T. -0.06 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
168	100		
139	46.9	33.4	50.2
169	13.0	10.6	15.8





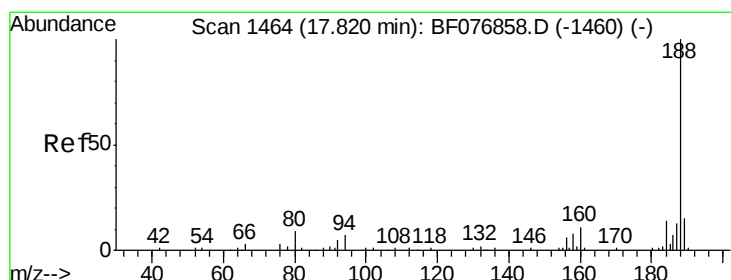
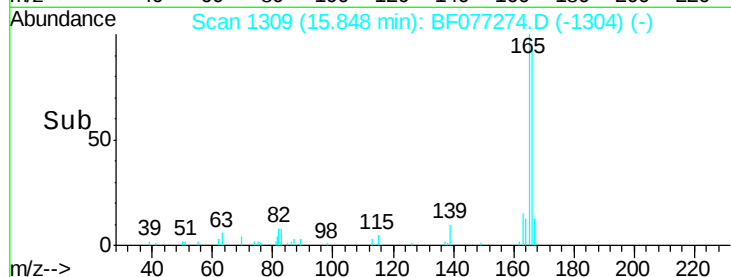
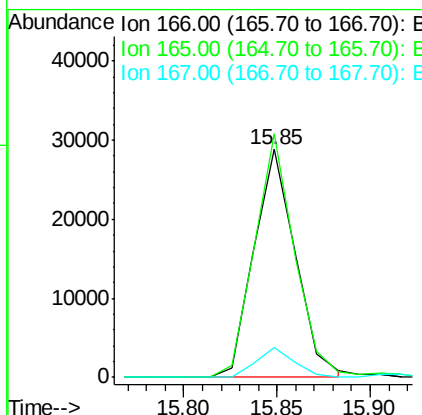
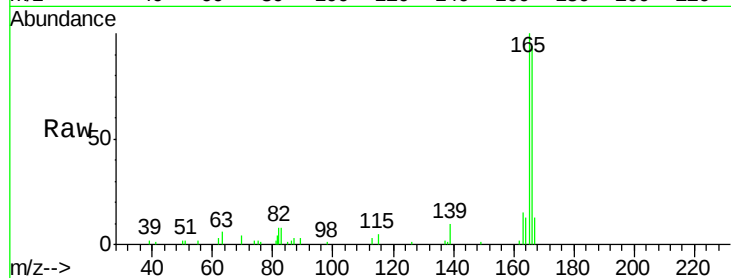
#57
 Fluorene
 Concen: 7.11 ng
 RT: 15.85 min Scan# 1309
 Delta R.T. -0.05 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion	Ratio	Lower	Upper
166	100		
165	106.9	78.5	117.7
167	13.4	10.4	15.6

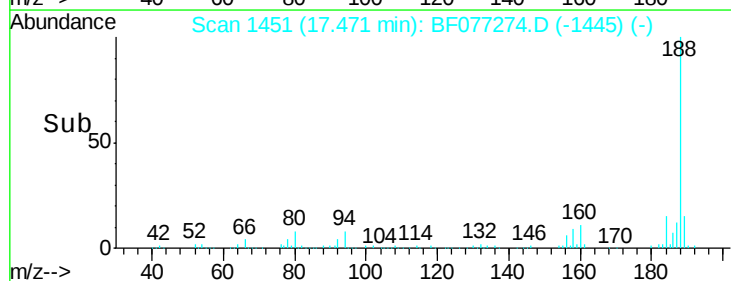
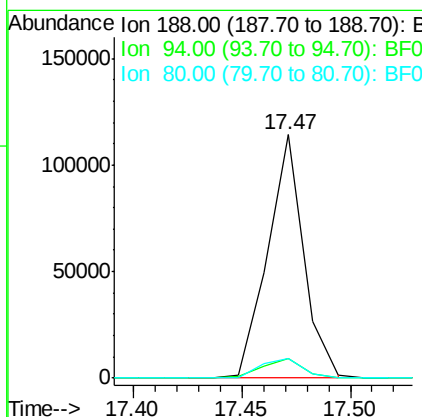
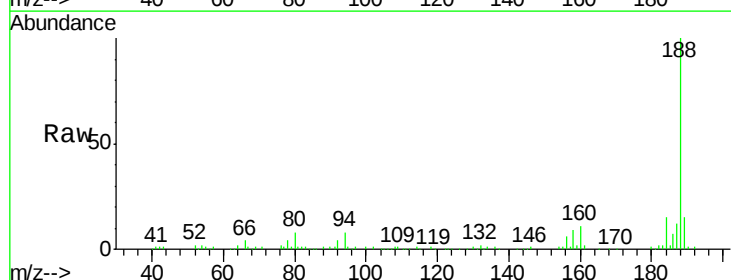
Manual Integrations
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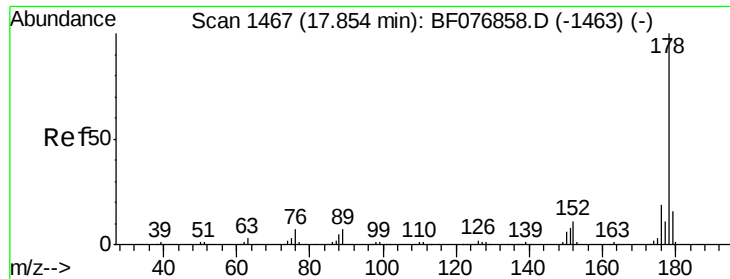
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#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.47 min Scan# 1451
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.0	9.0
80	8.0	6.9	10.3





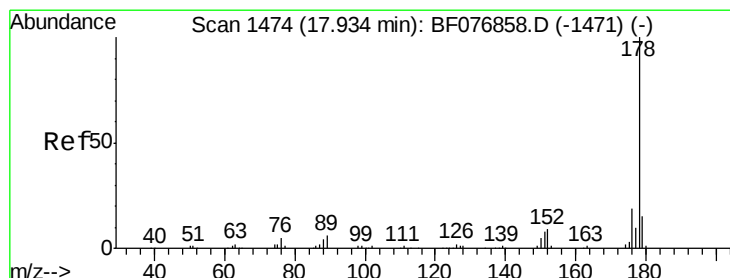
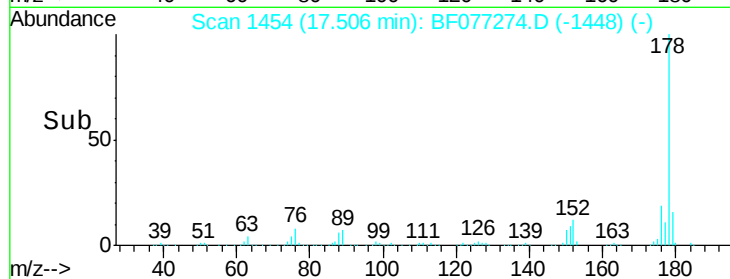
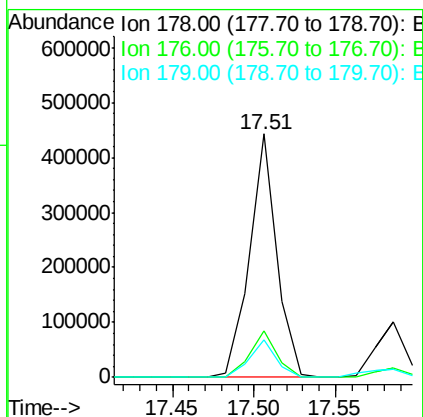
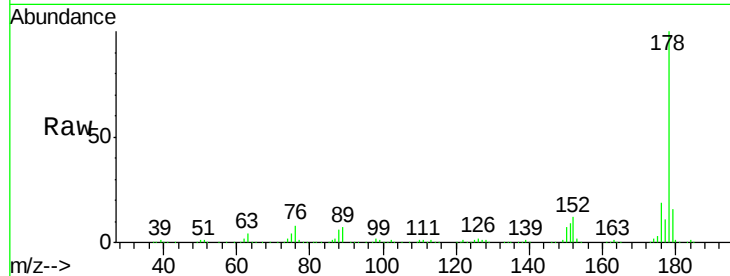
#70
Phenanthrene
Concen: 62.10 ng
RT: 17.51 min Scan# 1454
Delta R.T. -0.03 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Instrument :
BNA_F
ClientSampleId :
UB10ADL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.6	12.7	19.1

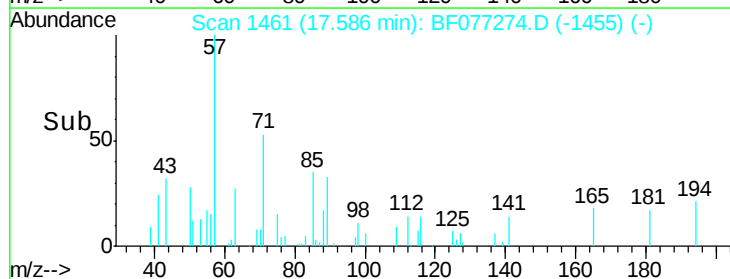
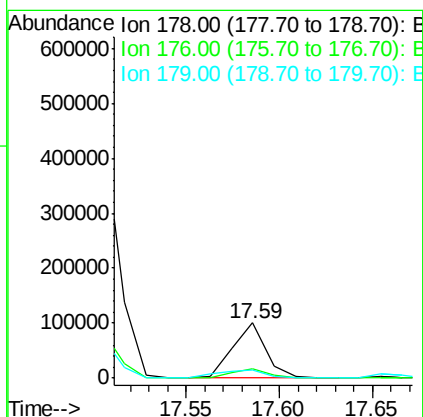
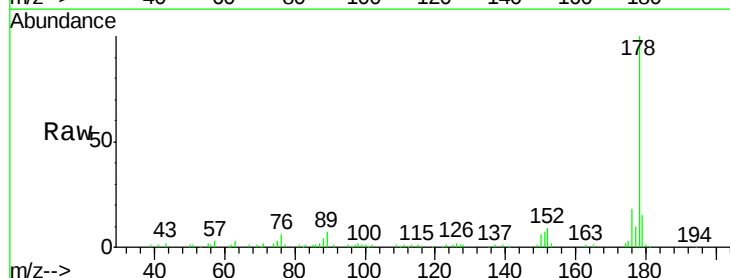
Manual Integrations
APPROVED

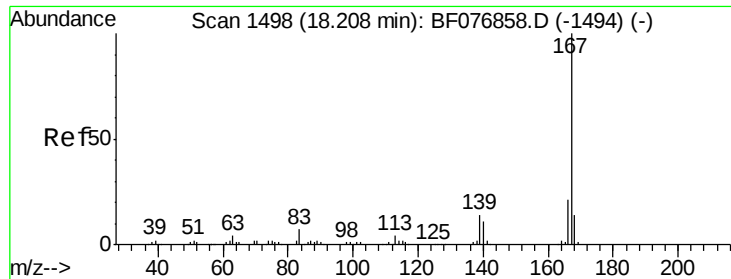
apatel
2/12/2015 4:15:03 PM



#71
Anthracene
Concen: 15.43 ng
RT: 17.59 min Scan# 1461
Delta R.T. -0.03 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.0
179	14.9	11.9	17.9





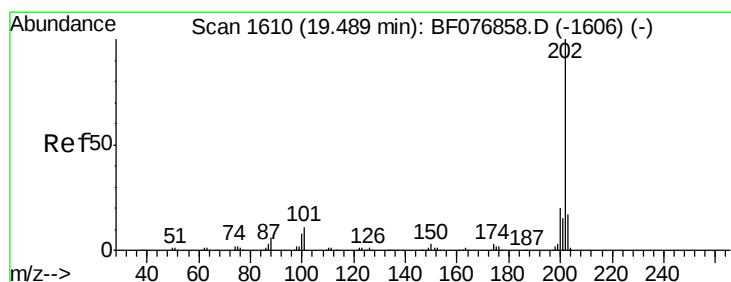
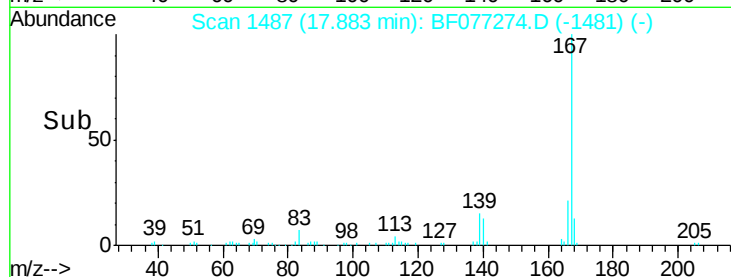
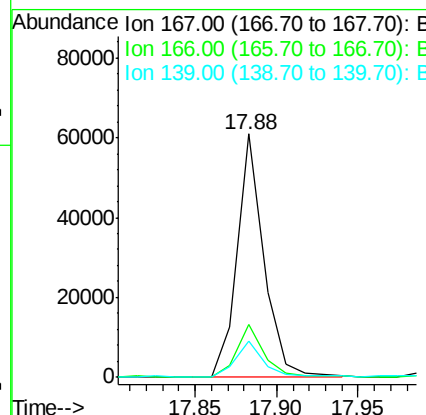
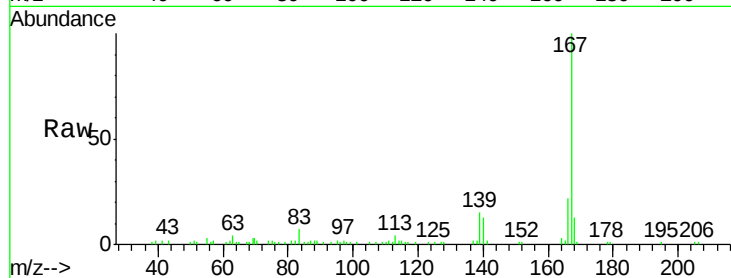
#72
 Carbazole
 Concen: 8.84 ng
 RT: 17.88 min Scan# 1487
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	14.9	11.3	16.9

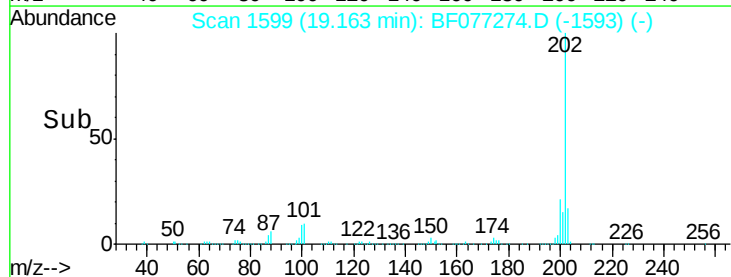
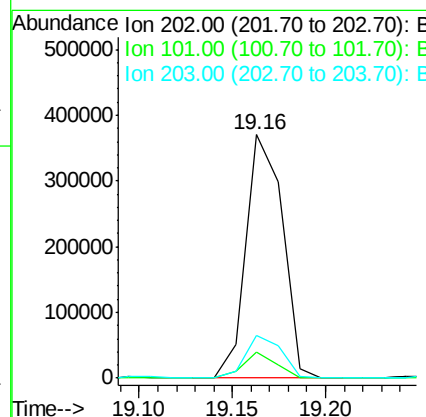
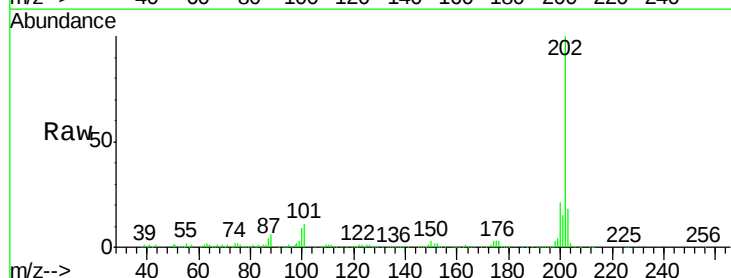
Manual Integrations
 APPROVED

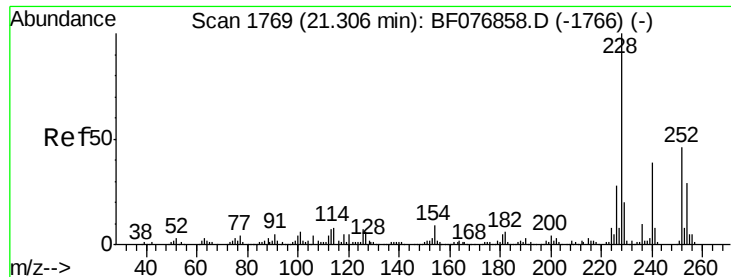
apatel
 2/12/2015 4:15:03 PM



#74
 Fluoranthene
 Concen: 59.83 ng
 RT: 19.16 min Scan# 1599
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	30.7
203	17.7	0.0	36.9





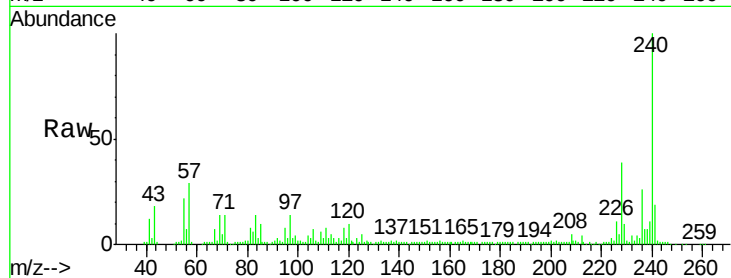
#75
Chrysene-d12
Concen: 20.00 ng
RT: 20.99 min Scan# 1759
Delta R.T. -0.02 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Instrument :
BNA_F
ClientSampleId :
UB10ADL

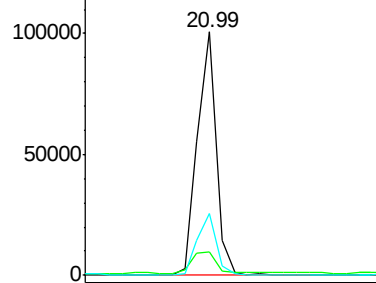
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	120893		
120	9.7	10.4	15.6#	
236	25.6	20.2	30.2	

Manual Integrations
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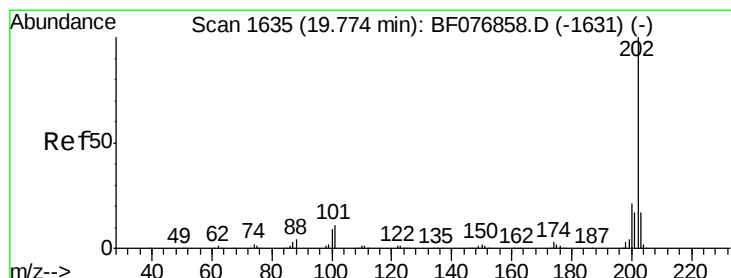
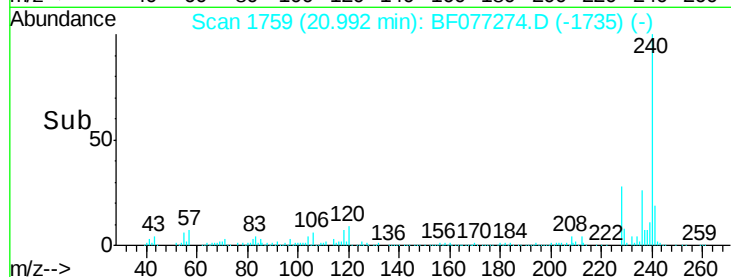
apatel
2/12/2015 4:15:03 PM



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

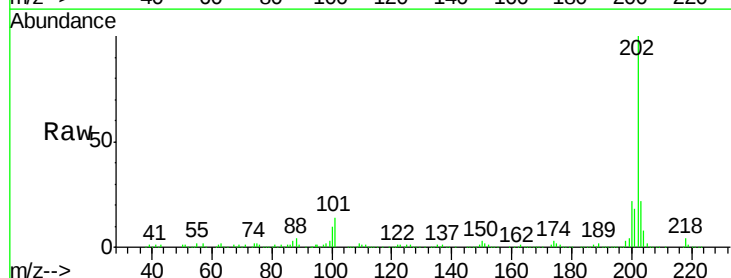


Time-->

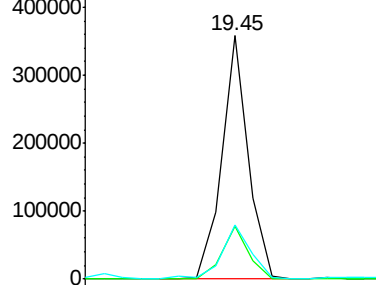


#77
Pyrene
Concen: 48.10 ng
RT: 19.45 min Scan# 1624
Delta R.T. -0.02 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

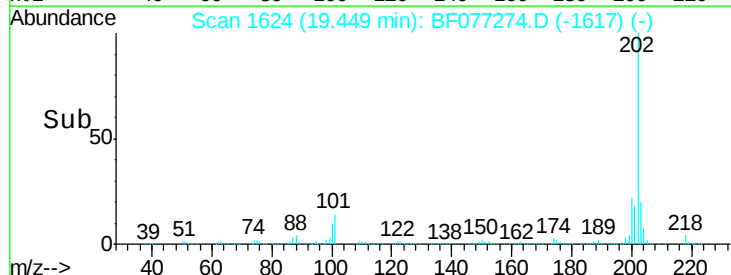
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	398491		
200	21.6	16.7	25.1	
203	22.2	14.0	21.0#	

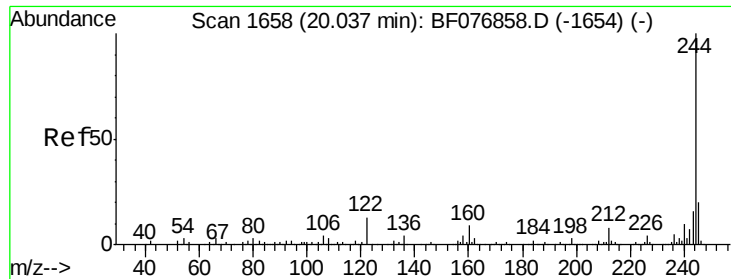


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





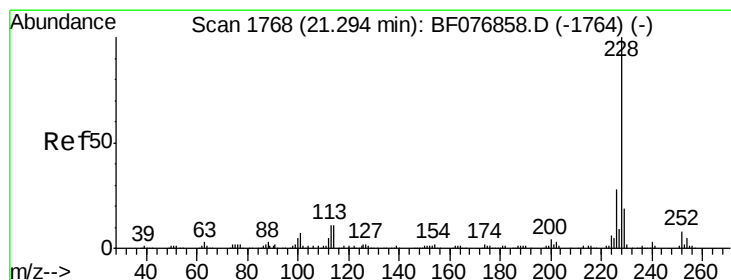
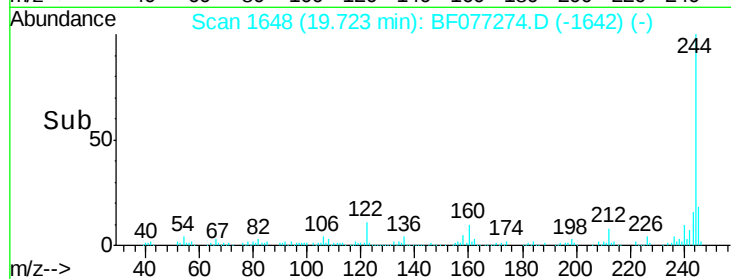
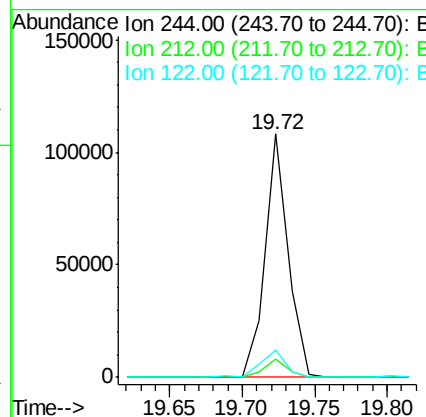
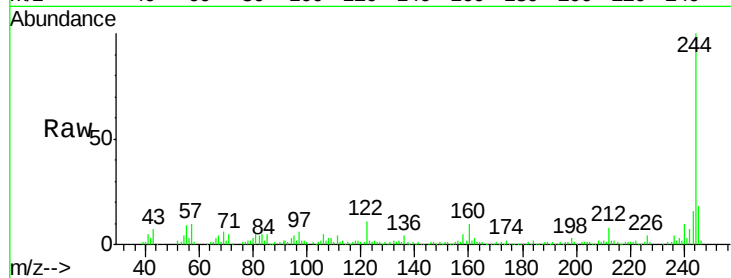
#78
 Terphenyl-d14
 Concen: 22.64 ng
 RT: 19.72 min Scan# 1648
 Delta R.T. -0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.7	6.3	9.5
122	11.3	10.1	15.1

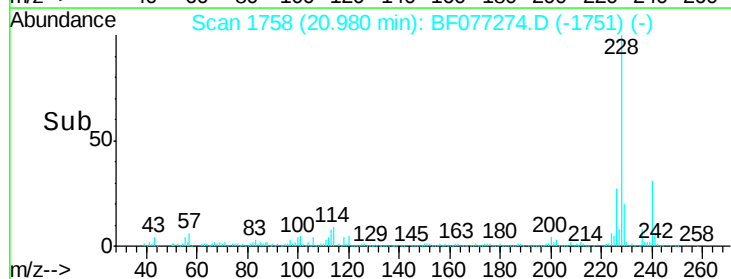
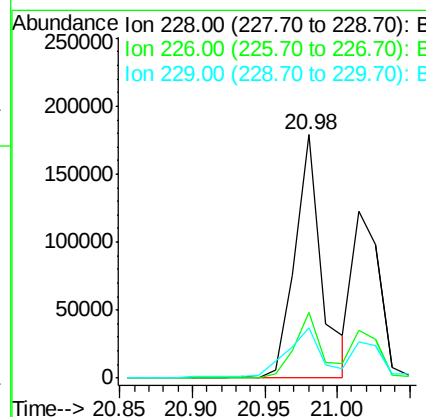
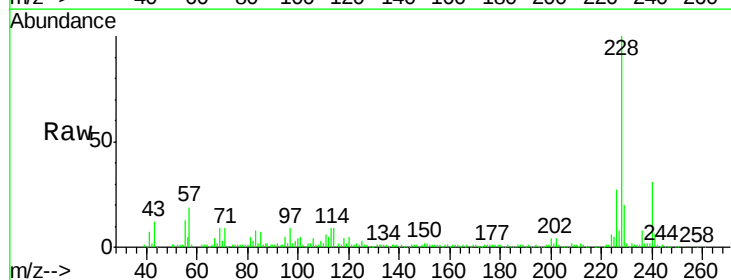
Manual Integrations
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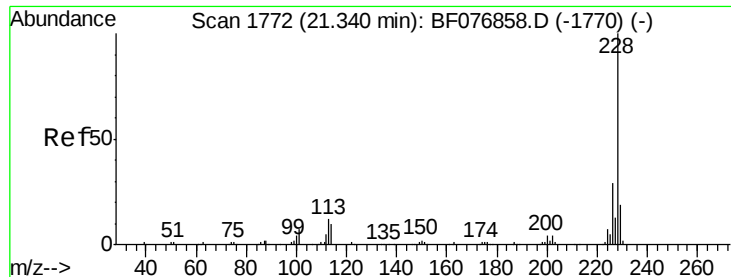
apatel
 2/12/2015 4:15:03 PM



#80
 Benzo(a)anthracene
 Concen: 29.84 ng
 RT: 20.98 min Scan# 1758
 Delta R.T. -0.02 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.1	22.1	33.1
229	20.4	15.5	23.3





#82

Chrysene

Concen: 22.65 ng

RT: 21.01 min Scan# 1761

Delta R.T. -0.03 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

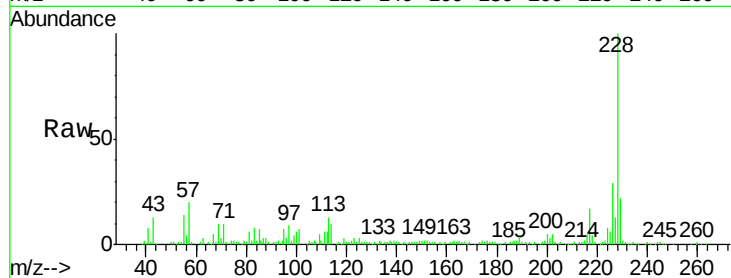
ClientSampleID :

UB10ADL

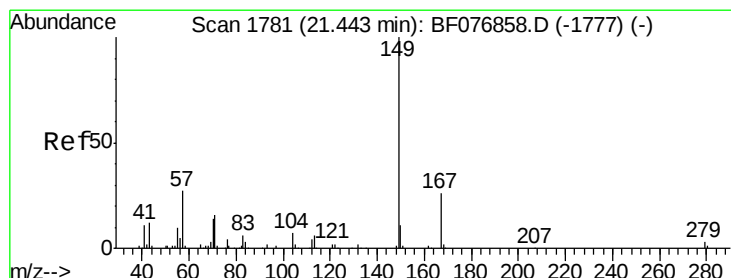
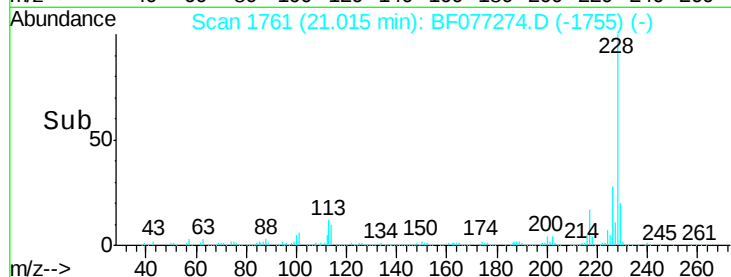
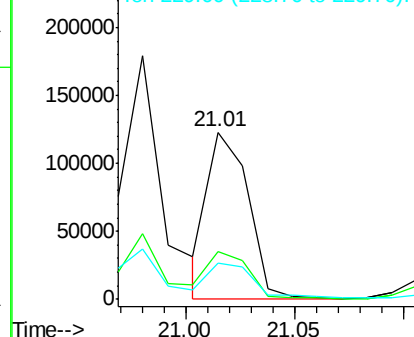
Tgt Ion:	228	Resp:	156652
Ion Ratio	Lower	Upper	
228	100		
226	28.7	23.4	35.0
229	22.1	15.4	23.0

Manual Integrations
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.85 ng

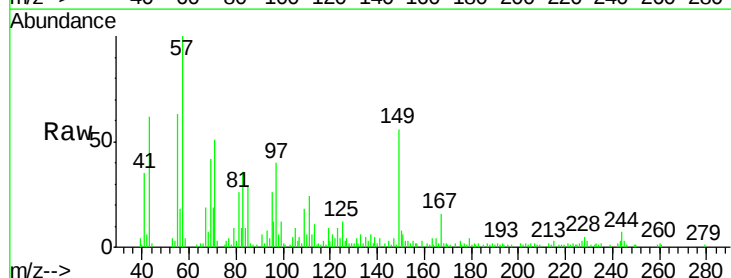
RT: 21.14 min Scan# 1772

Delta R.T. -0.02 min

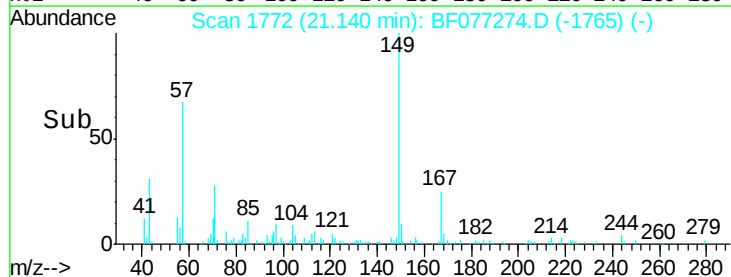
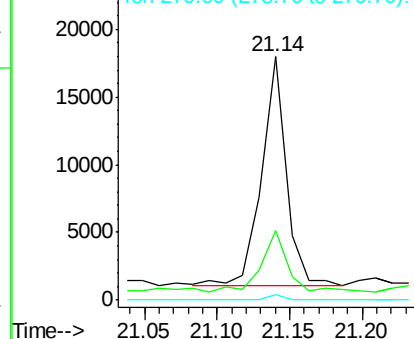
Lab File: BF077274.D

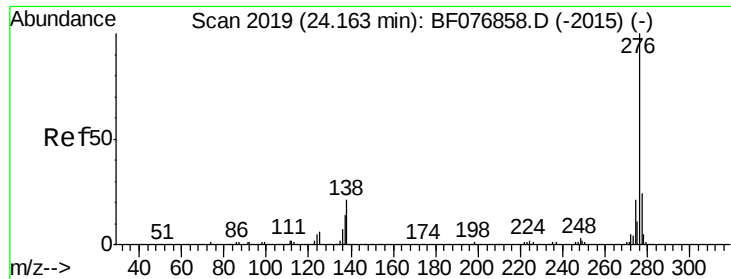
Acq: 12 Feb 2015 6:42

Tgt Ion:	149	Resp:	19977
Ion Ratio	Lower	Upper	
149	100		
167	28.6	20.6	30.8
279	2.2	2.2	3.2



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





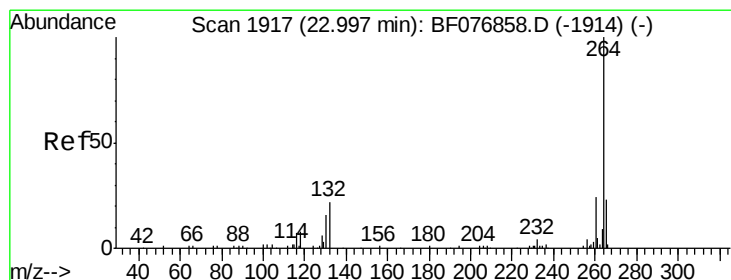
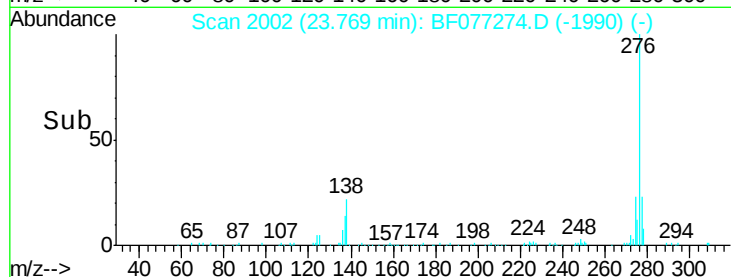
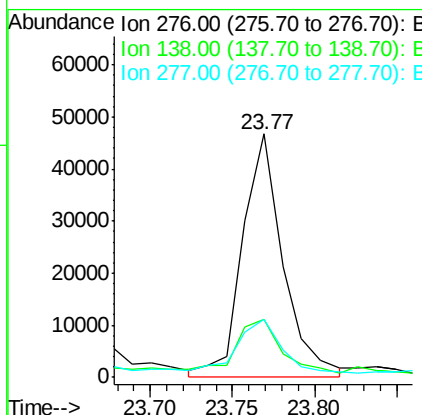
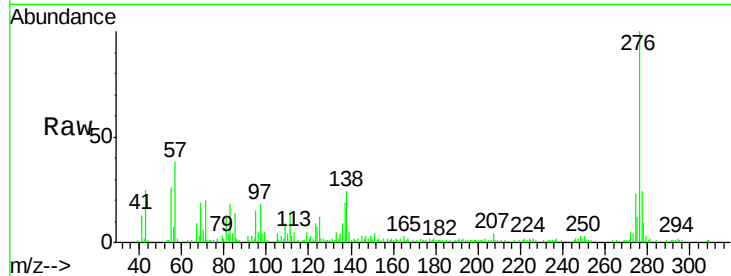
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.93 ng m
 RT: 23.77 min Scan# 2002
 Delta R.T. 0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	6.9	14.6	22.0#
277	6.6	14.8	22.2#

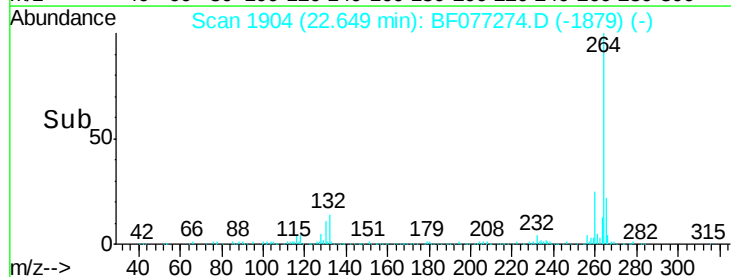
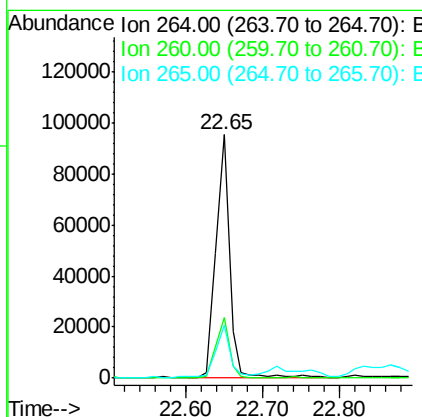
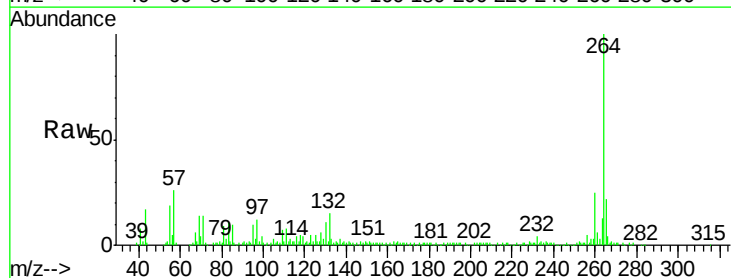
Manual Integrations
 APPROVED

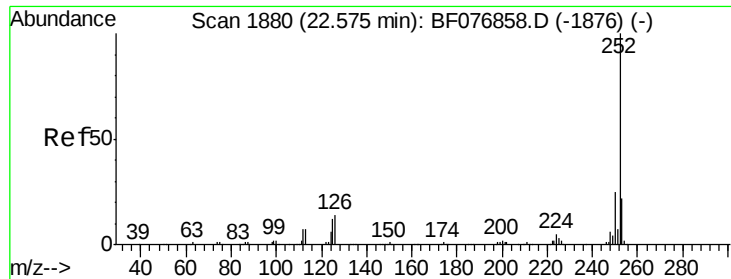
apatel
 2/12/2015 4:15:03 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 22.65 min Scan# 1904
 Delta R.T. -0.01 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	24.8	19.0	28.4
265	21.9	18.1	27.1





#87

Benzo(b)fluoranthene

Concen: 25.33 ng m

RT: 22.24 min Scan# 1868

Delta R.T. -0.01 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Instrument :

BNA_F

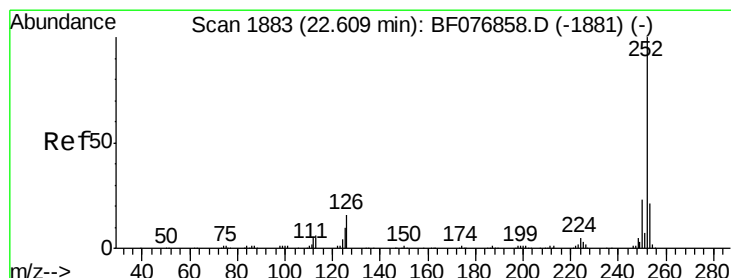
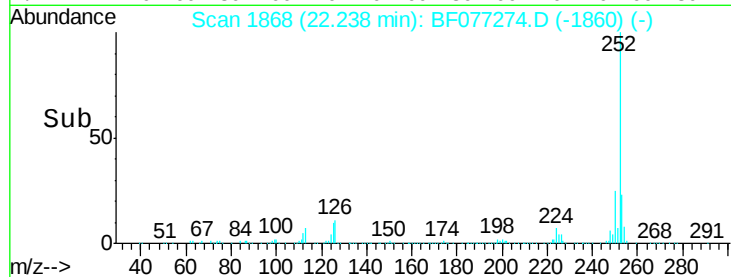
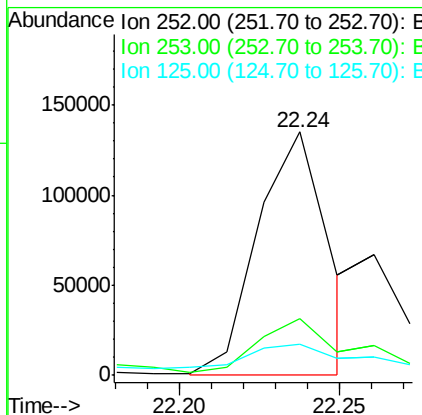
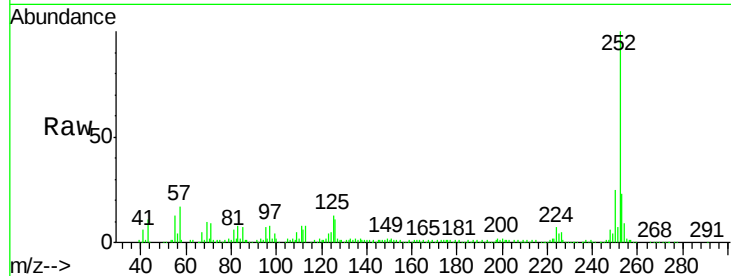
ClientSampleId :

UB10ADL

Tgt	Ion	252	Resp:	205512
Ion	Ratio	Lower	Upper	
252	100			
253	23.3	17.5	26.3	
125	12.6	9.4	14.0	

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 9.87 ng m

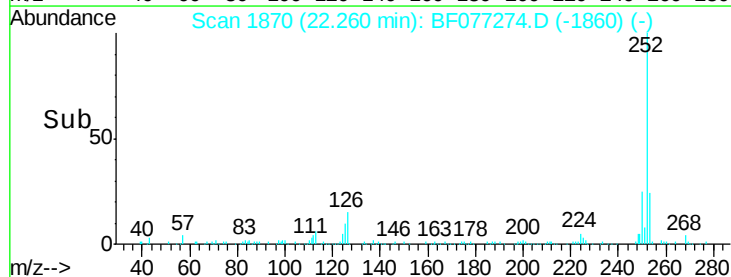
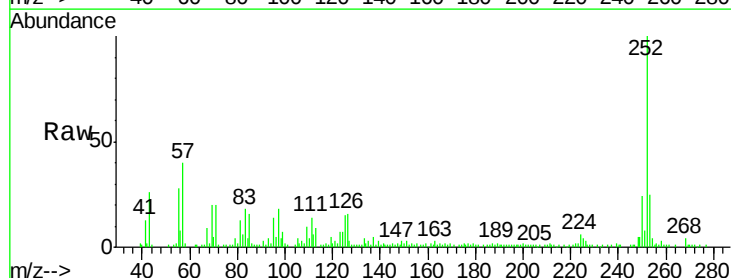
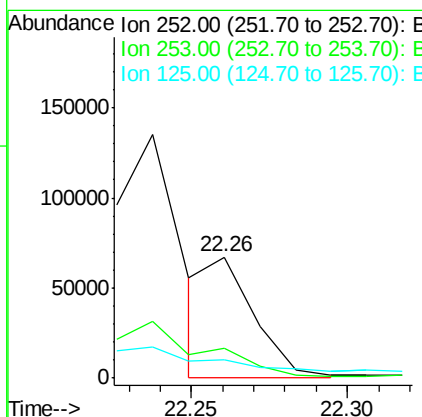
RT: 22.26 min Scan# 1870

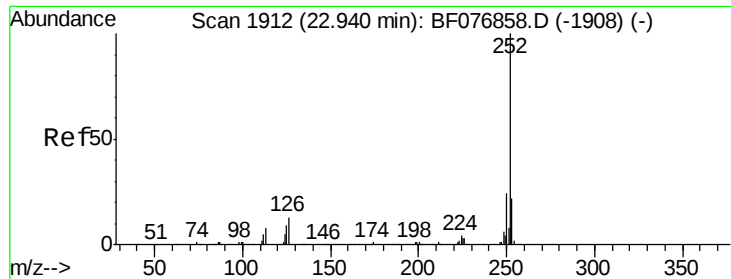
Delta R.T. 0.01 min

Lab File: BF077274.D

Acq: 12 Feb 2015 6:42

Tgt	Ion	252	Resp:	69975
Ion	Ratio	Lower	Upper	
252	100			
253	24.8	17.2	25.8	
125	15.0	7.1	10.7#	





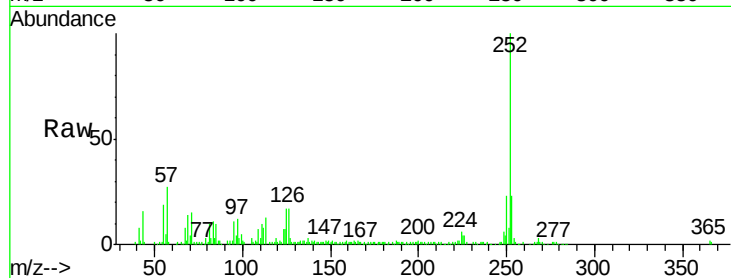
#89
Benzo(a)pyrene
Concen: 19.26 ng
RT: 22.58 min Scan# 1898
Delta R.T. -0.01 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

Instrument :
BNA_F
ClientSampleId :
UB10ADL

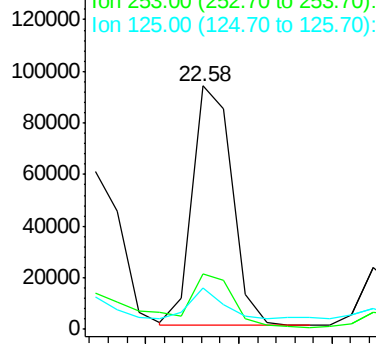
Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.0	17.9	26.9
125	16.7	7.2	10.8

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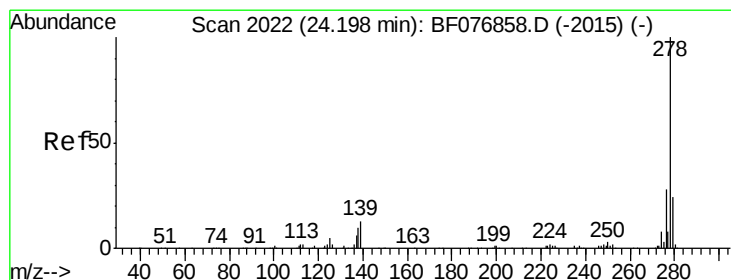
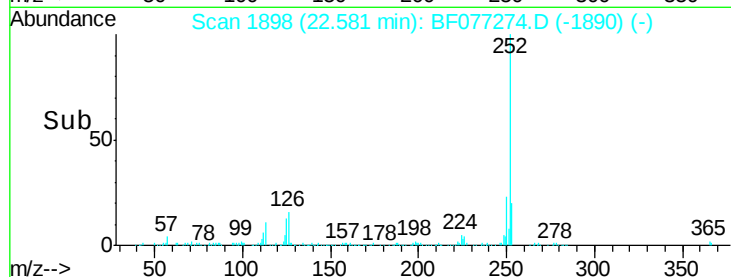
apatel
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



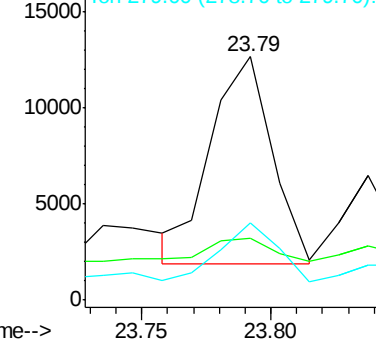
Time-->



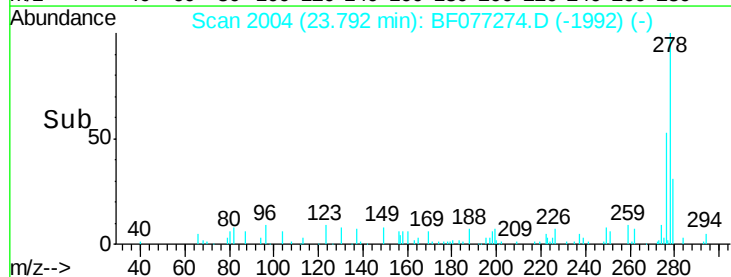
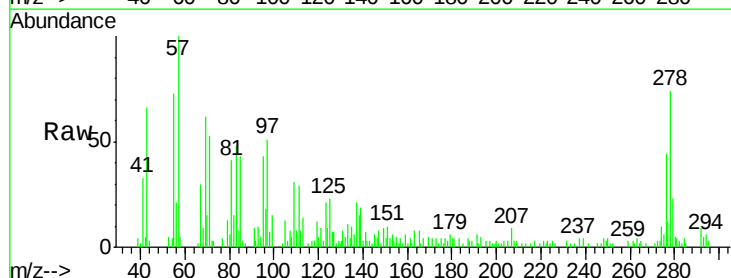
#90
Dibenzo(a,h)anthracene
Concen: 2.72 ng m
RT: 23.79 min Scan# 2004
Delta R.T. 0.03 min
Lab File: BF077274.D
Acq: 12 Feb 2015 6:42

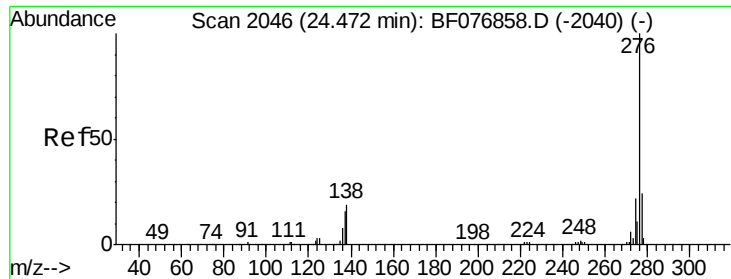
Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	25.4	10.5	15.7
279	31.6	19.3	28.9

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



Time-->





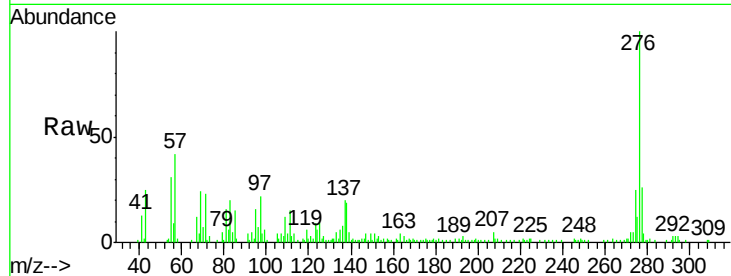
#91
 Benzo(g,h,i)perylene
 Concen: 10.70 ng m
 RT: 24.03 min Scan# 2025
 Delta R.T. 0.03 min
 Lab File: BF077274.D
 Acq: 12 Feb 2015 6:42

Instrument :
 BNA_F
 ClientSampleId :
 UB10ADL

Tgt Ion:	276	Resp:	69823
Ion Ratio	Lower	Upper	
276	100		
277	25.9	19.5	29.3
138	19.1	15.0	22.6

Manual Integrations
 APPROVED

apatel
 2/12/2015 4:15:03 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

