

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
 Data File : BF088434.D
 Acq On : 26 Jun 2016 22:49
 Operator : UM/SJ
 Sample : H3663-07 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUP

Manual Integrations
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Quant Time: Jun 27 18:52:07 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.55	152	70323	20.00	ng	-0.06
21) Naphthalene-d8	7.84	136	280650	20.00	ng	-0.06
38) Acenaphthene-d10	9.58	164	125198	20.00	ng	-0.07
63) Phenanthrene-d10	11.05	188	200037	20.00	ng	-0.07
75) Chrysene-d12	13.70	240	116412	20.00	ng	-0.05
86) Perylene-d12	15.06	264	144490	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	78916	19.18	ng	-0.05
7) Phenol-d6	6.22	99	99784	20.02	ng	-0.05
23) Nitrobenzene-d5	7.12	82	66422	13.82	ng	-0.06
41) 2,4,6-Tribromophenol	10.36	330	18273	13.82	ng	-0.07
44) 2-Fluorobiphenyl	8.91	172	133959	12.06	ng	-0.06
78) Terphenyl-d14	12.64	244	90865	17.76	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	7.85	128	134266	9.67	ng	98
37) 2-Methylnaphthalene	8.55	142	36644	4.00	ng	98
49) Dimethylphthalate	9.31	163	61517	6.78	ng	99
51) Acenaphthene	9.61	154	88173	10.97	ng	99
54) Dibenzofuran	9.78	168	115729	10.45	ng	94
57) Fluorene	10.12	166	116286	12.00	ng	99
70) Phenanthrene	11.08	178	1042359	99.30	ng	99
71) Anthracene	11.13	178	440511	41.60	ng	99
72) Carbazole	11.30	167	211423	21.34	ng	98
74) Fluoranthene	12.29	202	2136737	192.89	ng	98
77) Pyrene	12.50	202	1726200	199.83	ng	98
80) Benzo(a)anthracene	13.69	228	1238987	186.77	ng	97
82) Chrysene	13.74	228	1249498	200.21	ng	96
85) Indeno(1,2,3-cd)pyrene	16.31	276	975036	168.15	ng	# 100
87) Benzo(b)fluoranthene	14.71	252	1909432m	189.60	ng	
88) Benzo(k)fluoranthene	14.72	252	514713m	67.75	ng	
89) Benzo(a)pyrene	15.02	252	1142703	140.25	ng	96
90) Dibenzo(a,h)anthracene	16.30	278	368705m	48.72	ng	
91) Benzo(a,h,i)perylene	16.69	276	919737	118.15	ng	96

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

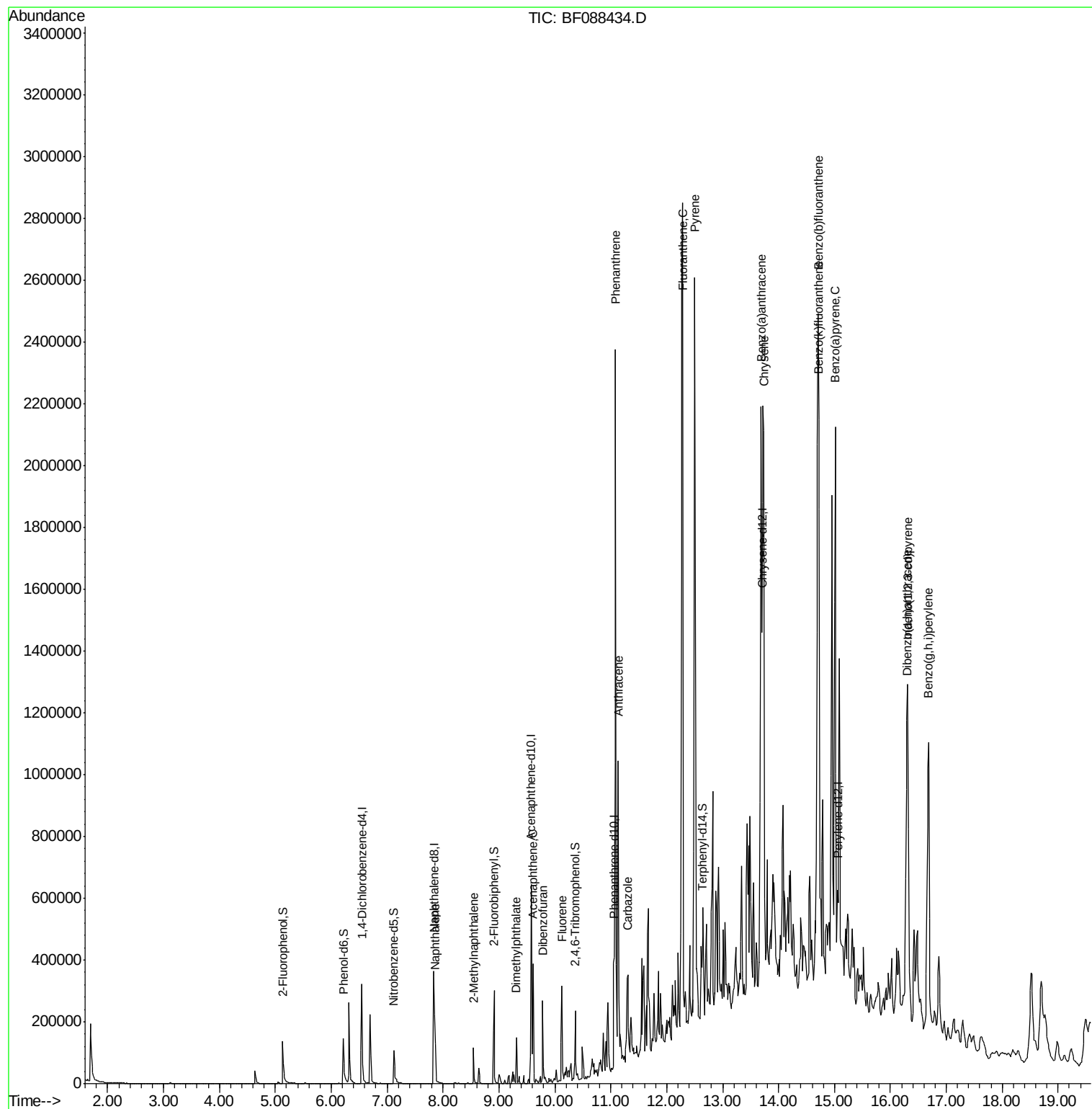
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
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ALS Vial : 24 Sample Multiplier: 1

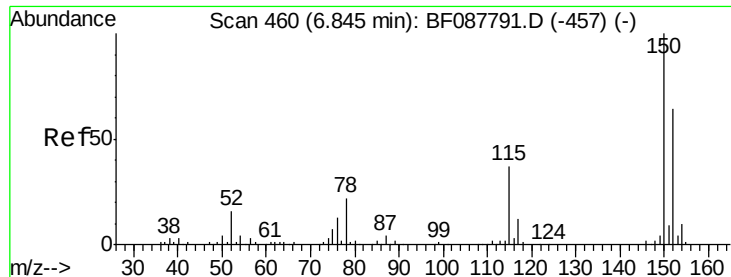
Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Quant Time: Jun 27 18:52:07 2016
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#1

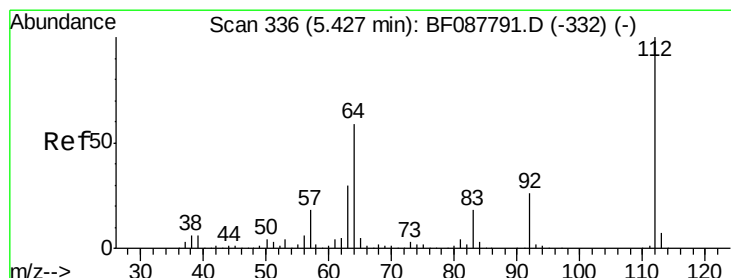
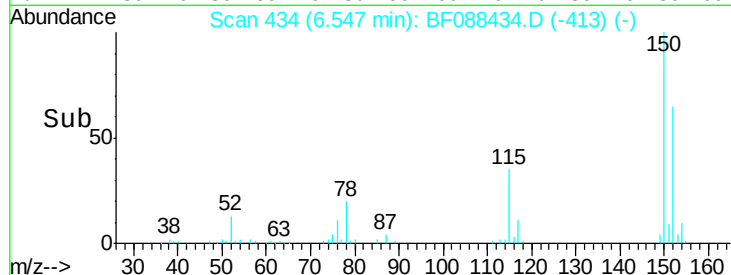
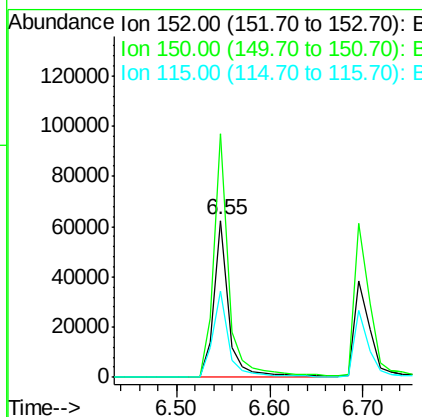
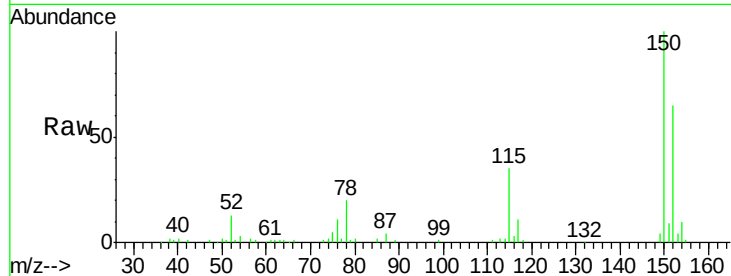
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.55 min Scan# 434
Delta R.T. -0.06 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.8	185.6
115	54.6	39.6	59.4

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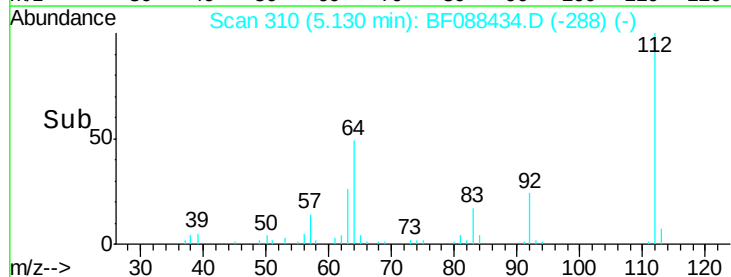
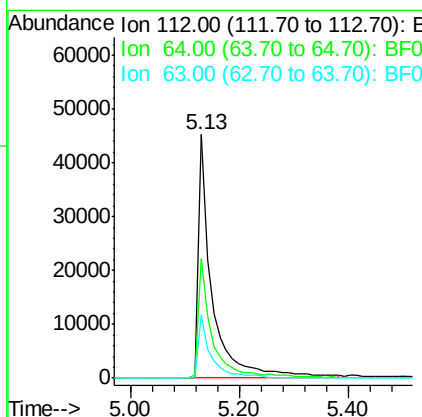
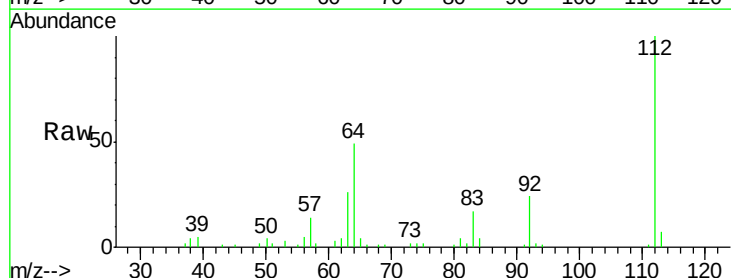
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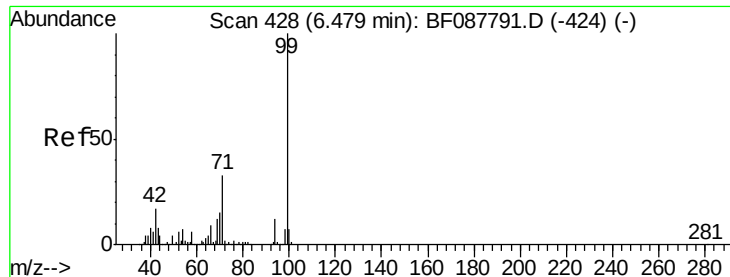


#5

2-Fluorophenol
Concen: 19.18 ng
RT: 5.13 min Scan# 310
Delta R.T. -0.05 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.9	42.2	63.2
63	25.9	21.8	32.8





#7

Phenol-d6

Concen: 20.02 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.05 min

Lab File: BF088434.D

Acq: 26 Jun 2016 22:49

Instrument :

BNA_F

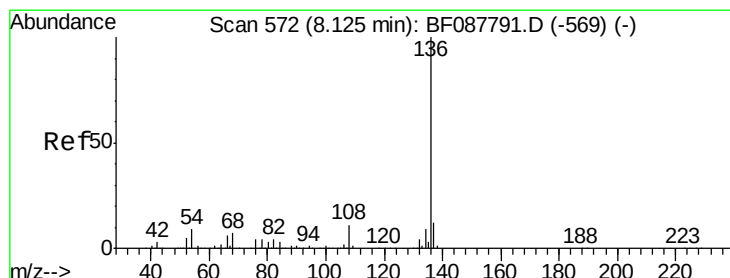
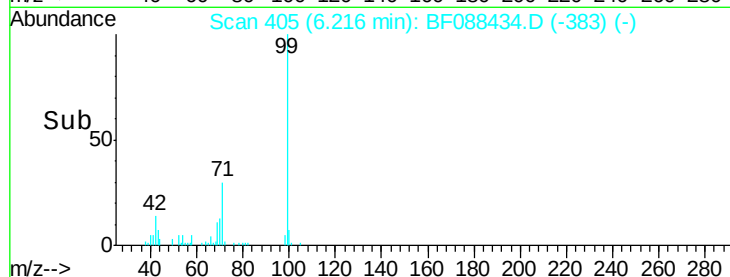
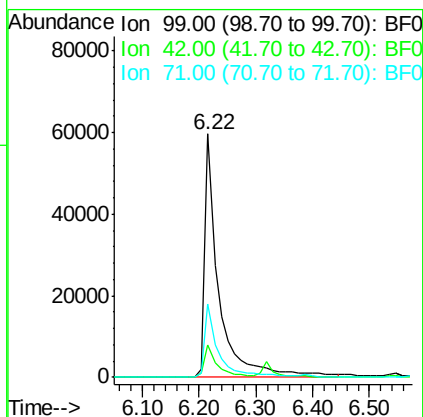
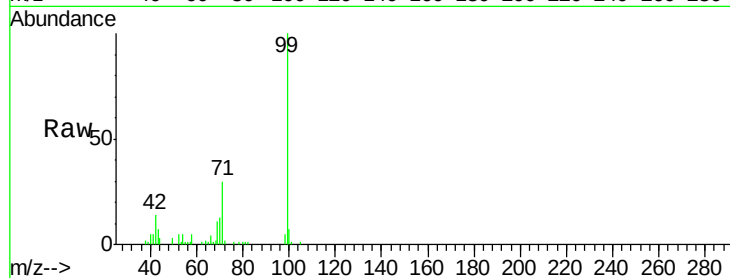
ClientSampleId :

SUBSURFACEDUP

Tot Ion:	99	Resp:	99784
Ion	Ratio	Lower	Upper
99	100		
42	13.6	12.2	18.2
71	30.3	23.4	35.0

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#21

Naphthalene-d8

Concen: 20.00 ng

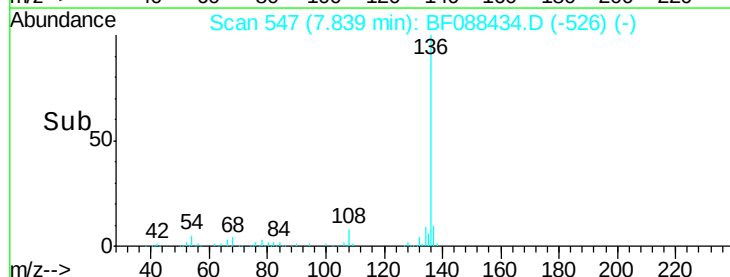
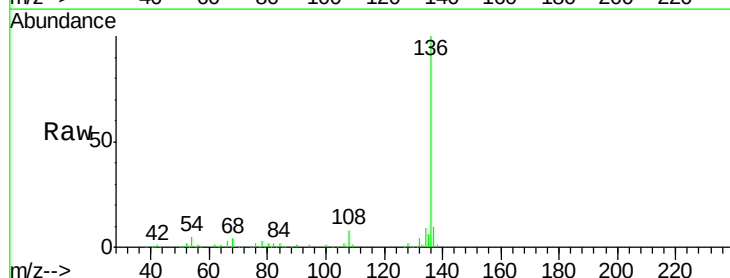
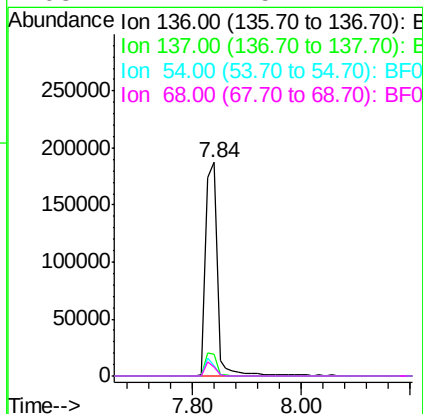
RT: 7.84 min Scan# 547

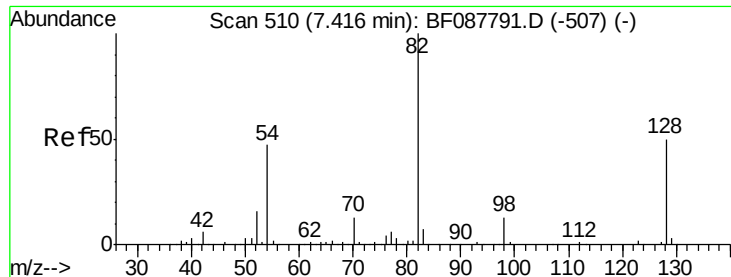
Delta R.T. -0.06 min

Lab File: BF088434.D

Acq: 26 Jun 2016 22:49

Tgt Ion:	136	Resp:	280650
Ion	Ratio	Lower	Upper
136	100		
137	10.1	9.1	13.7
54	4.5	6.6	10.0#
68	4.1	5.1	7.7#





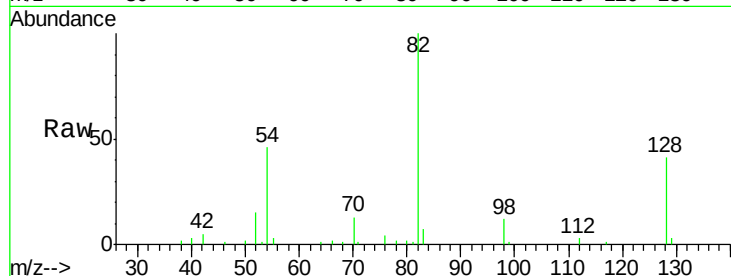
#23
Nitrobenzene-d5
Concen: 13.82 ng
RT: 7.12 min Scan# 484
Delta R.T. -0.06 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

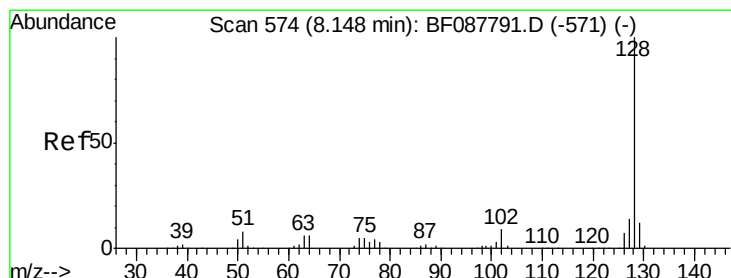
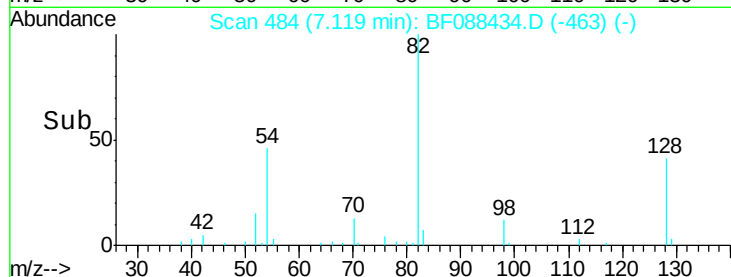
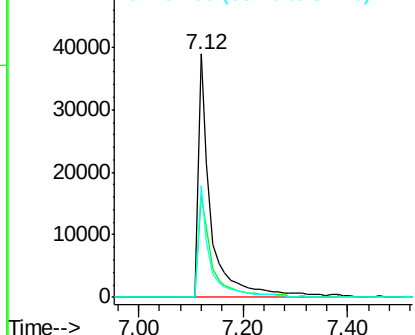
Tot Ion	Ratio	Lower	Upper
82	100		
128	41.5	35.9	53.9
54	45.8	40.9	61.3

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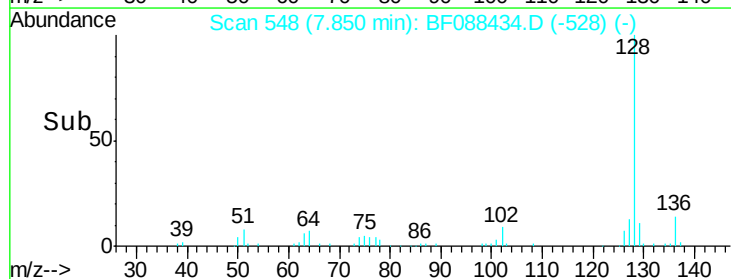
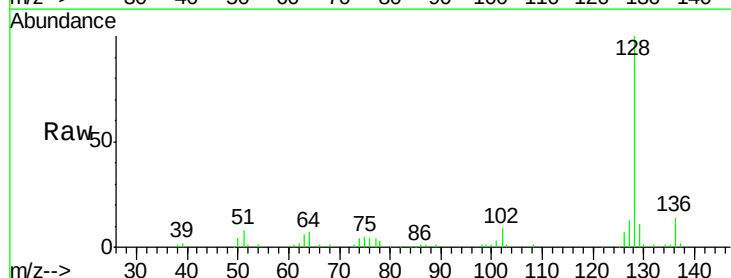
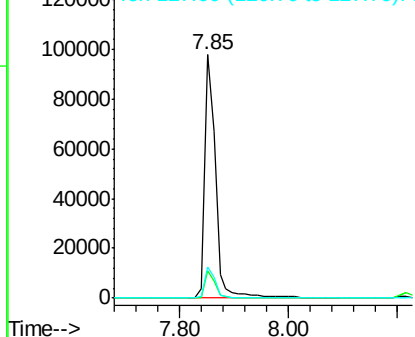
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

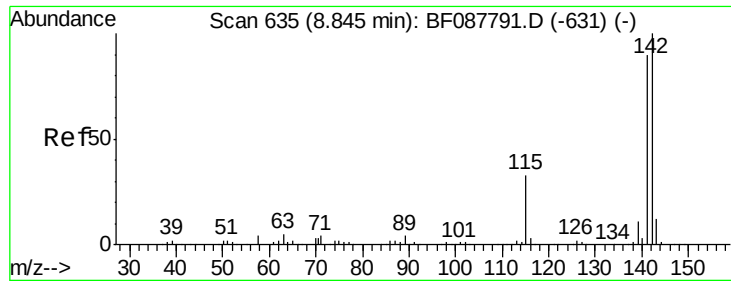


#31
Naphthalene
Concen: 9.67 ng
RT: 7.85 min Scan# 548
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.2
127	12.9	10.9	16.3

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





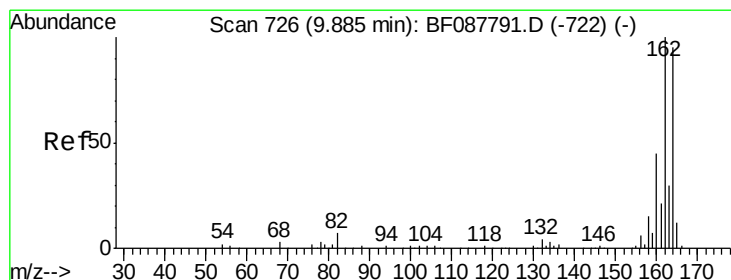
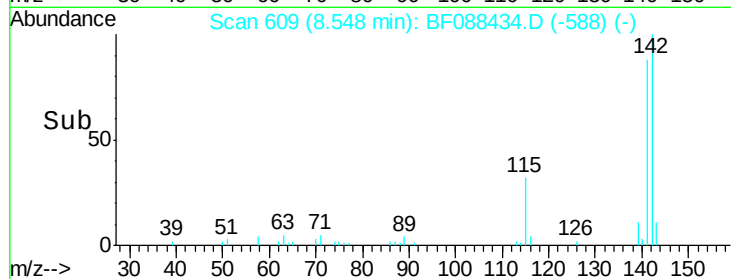
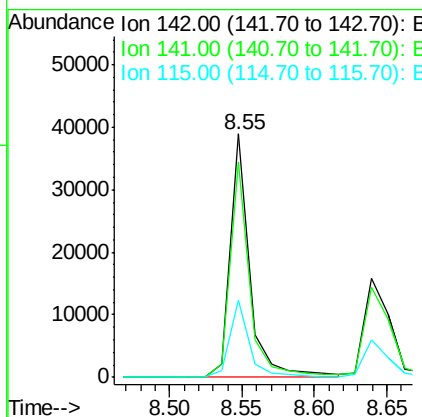
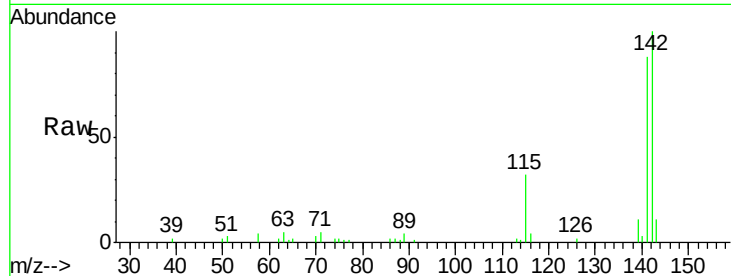
#37
2-Methylnaphthalene
Concen: 4.00 ng
RT: 8.55 min Scan# 609
Delta R.T. -0.06 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.0	106.6
115	31.6	22.6	33.8

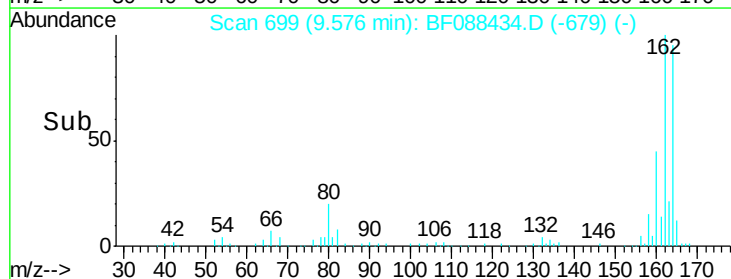
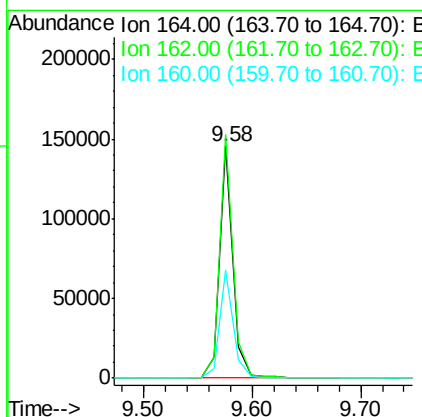
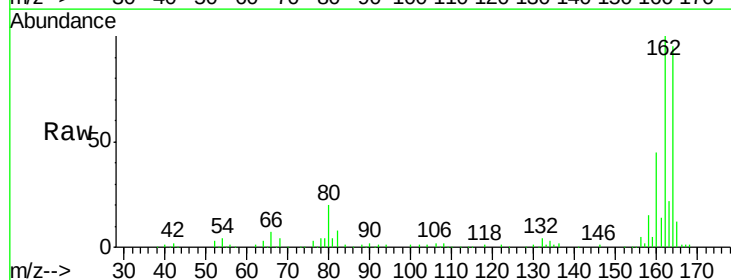
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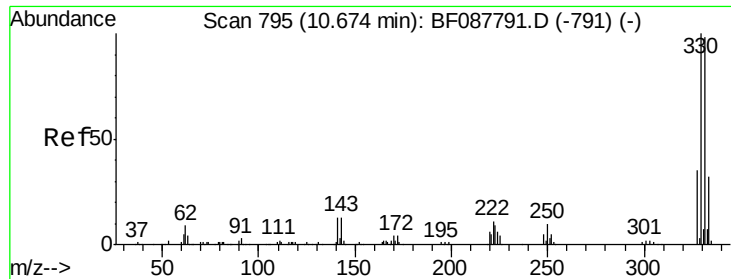
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	85.4	128.2
160	46.7	39.5	59.3





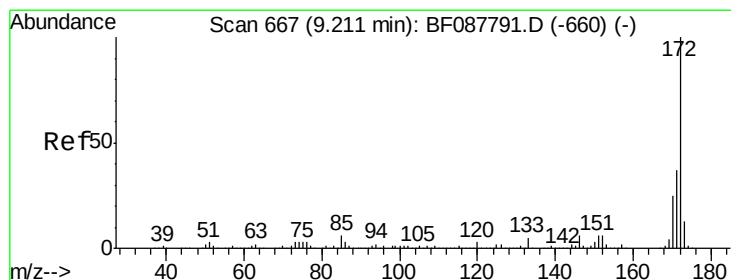
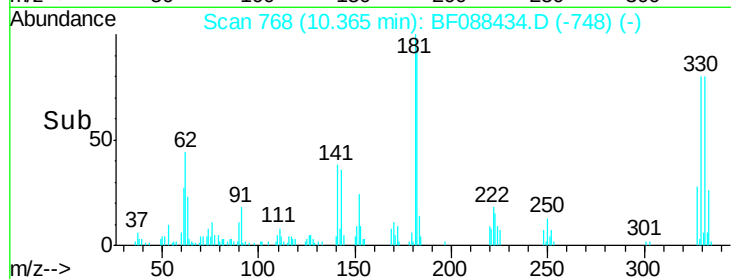
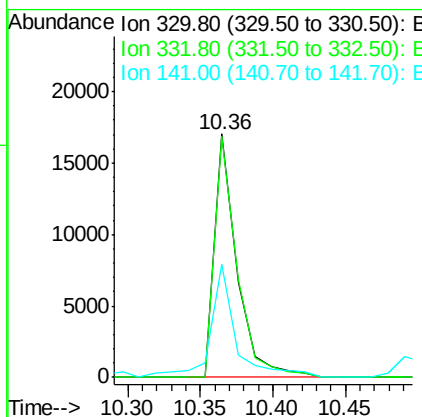
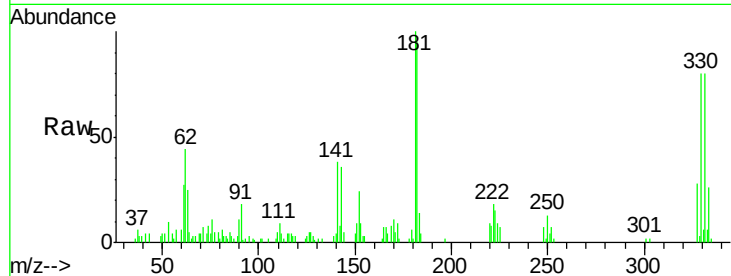
#41
 2,4,6-Tribromophenol
 Concen: 13.82 ng
 RT: 10.36 min Scan# 768
 Delta R.T. -0.07 min
 Lab File: BF088434.D
 Acq: 26 Jun 2016 22:49

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUP

Tot Ion	Ratio	Resp	Lower	Upper
330	100	18273		
332	99.5	0.0	0.0	0.0
141	52.5	0.0	0.0	0.0

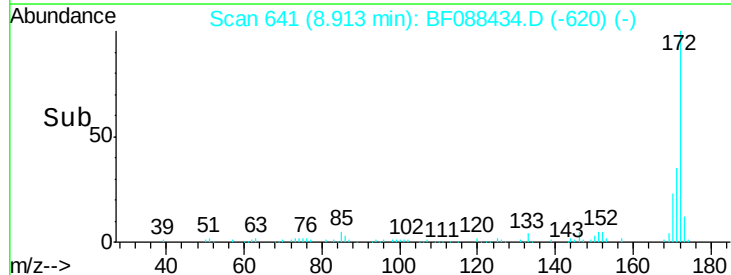
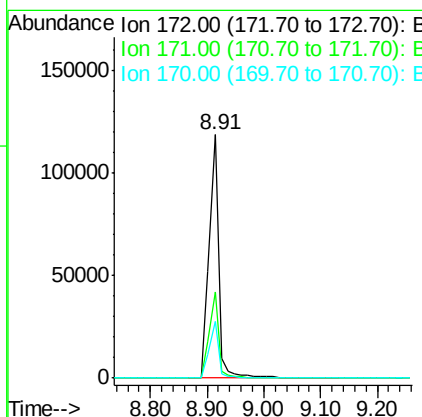
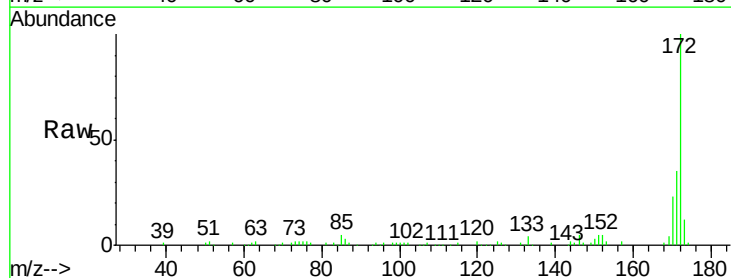
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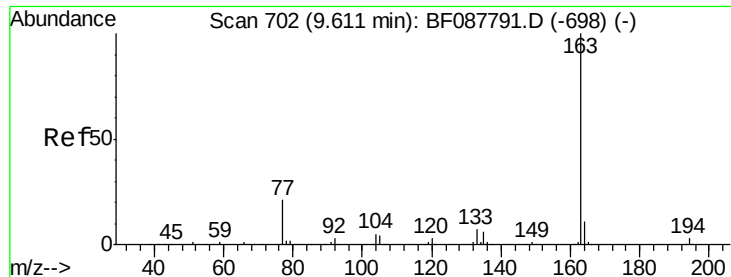
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#44
 2-Fluorobiphenyl
 Concen: 12.06 ng
 RT: 8.91 min Scan# 641
 Delta R.T. -0.06 min
 Lab File: BF088434.D
 Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	133959		
171	35.2	28.6	43.0	
170	23.1	19.2	28.8	





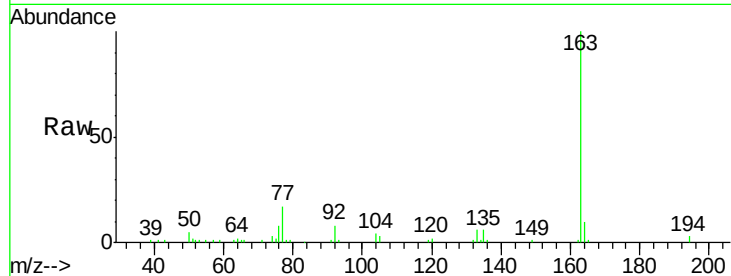
#49
Dimethylphthalate
Concen: 6.78 ng
RT: 9.31 min Scan# 676
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.8	4.2
164	10.0	8.3	12.5

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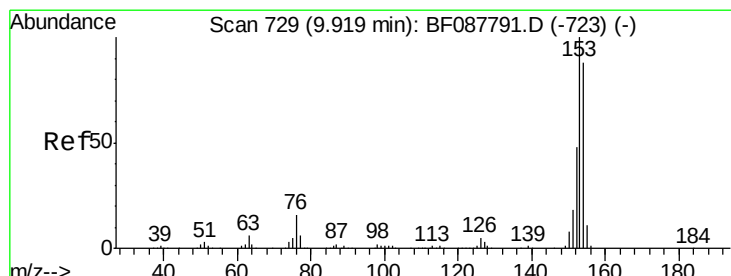
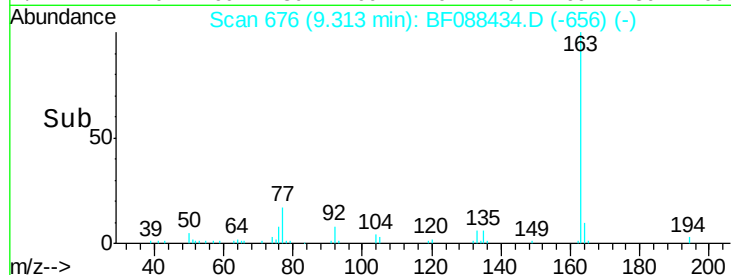
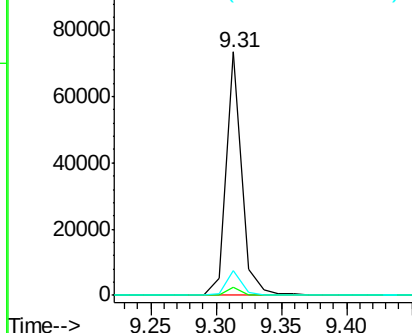


Abundance

Ion 163.00 (162.70 to 163.70): E

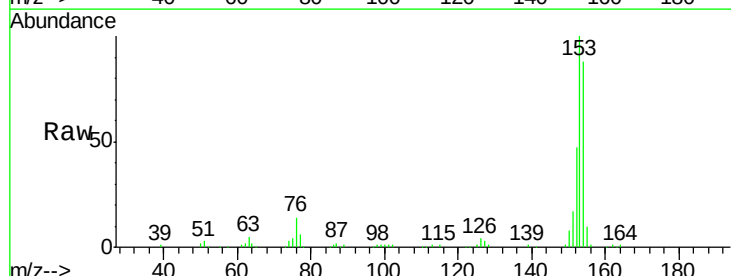
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 10.97 ng
RT: 9.61 min Scan# 702
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.4	89.5	134.3
152	52.9	42.7	64.1

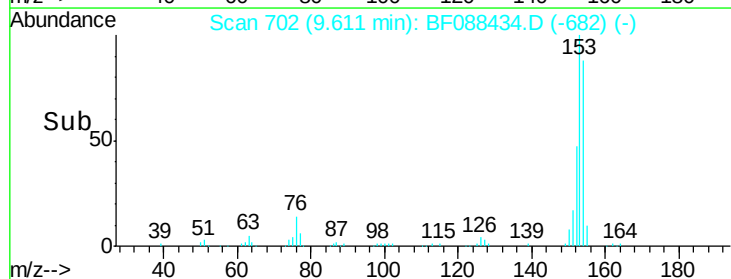
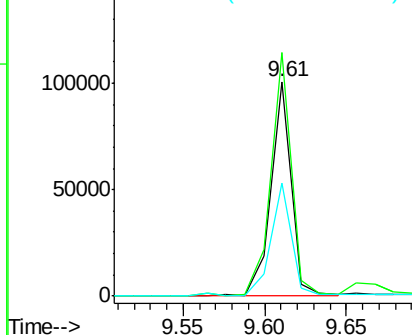


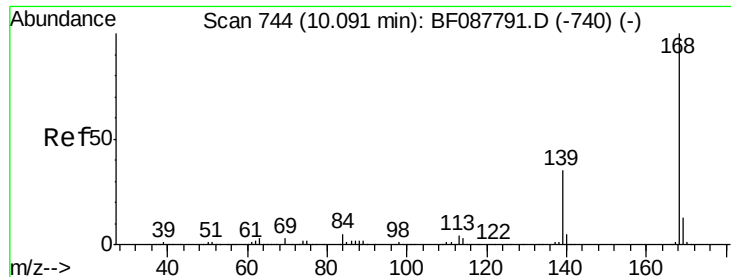
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





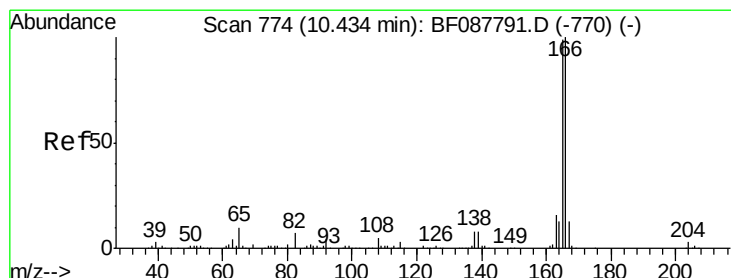
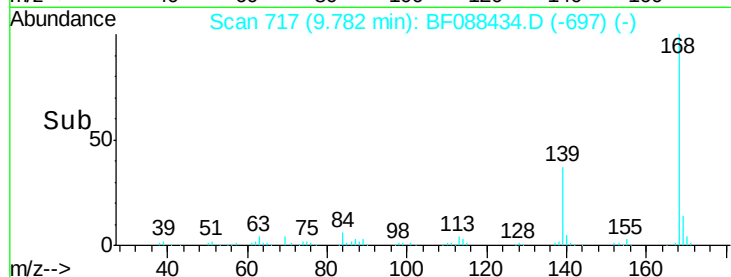
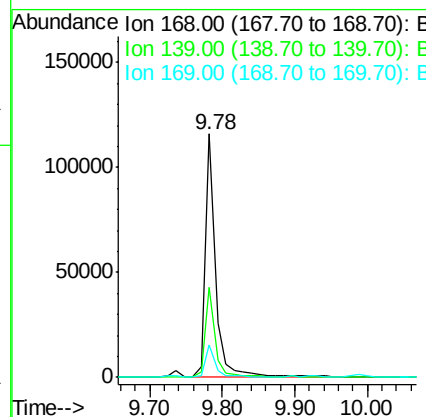
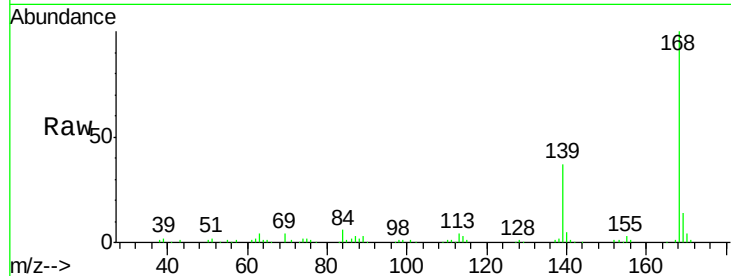
#54
Dibenzofuran
Concen: 10.45 ng
RT: 9.78 min Scan# 717
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.1	26.4	39.6
169	13.5	10.4	15.6

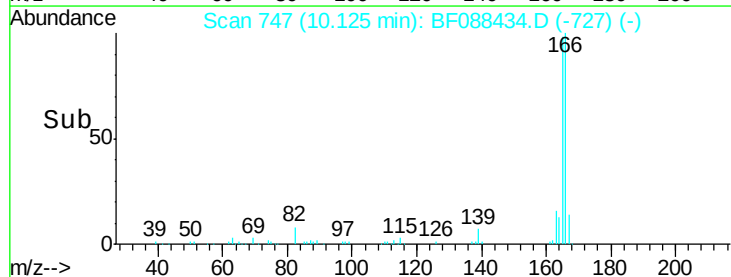
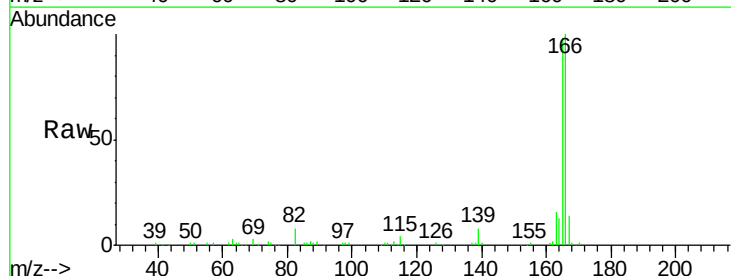
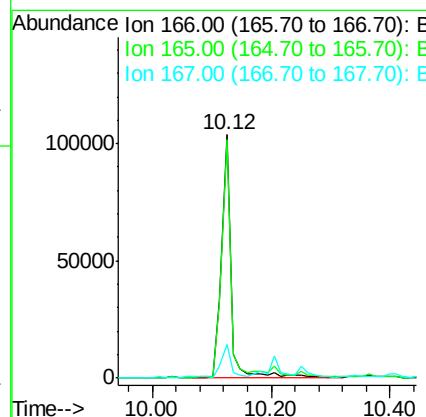
Manual Integrations
APPROVED

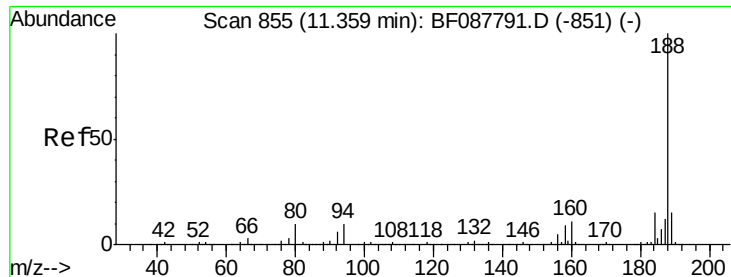
sohil
6/27/2016 8:02:34 PM



#57
Fluorene
Concen: 12.00 ng
RT: 10.12 min Scan# 747
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.8	11.2	16.8





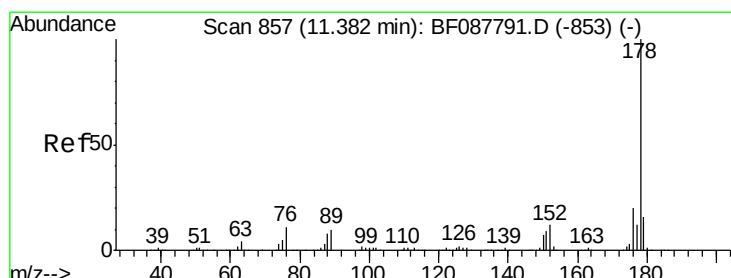
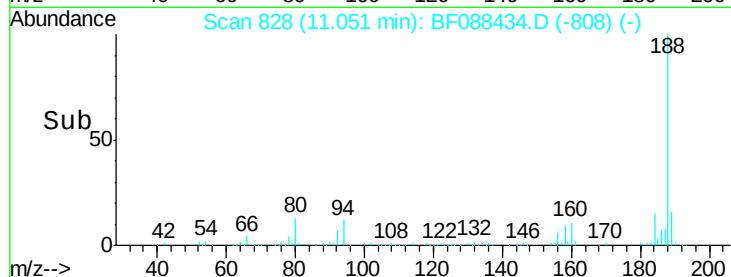
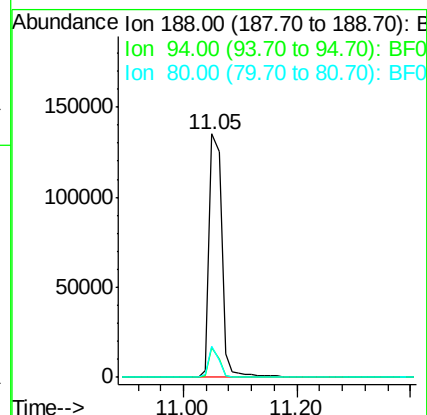
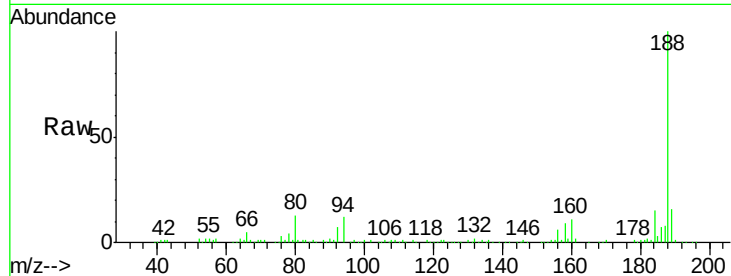
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.05 min Scan# 828
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Resp	Lower	Upper
188	100	200037		
94	12.2		9.0	13.6
80	12.6		10.0	15.0

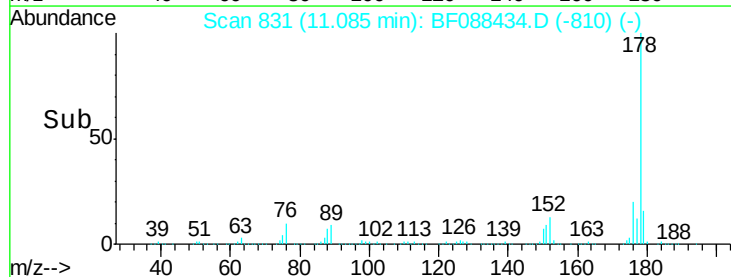
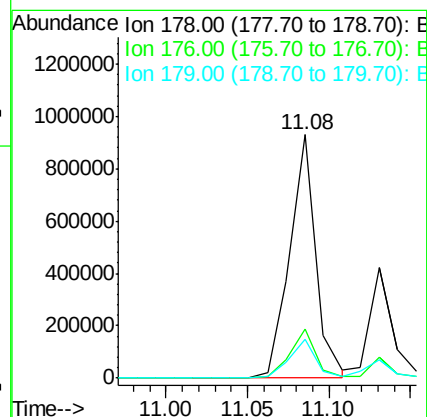
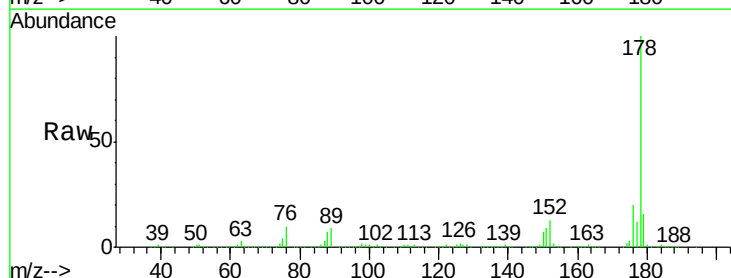
Manual Integrations
APPROVED

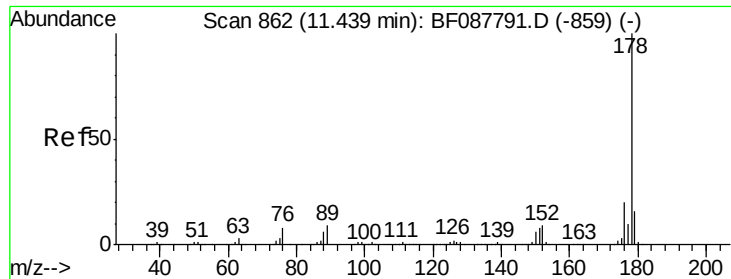
sohil
6/27/2016 8:02:34 PM



#70
Phenanthrene
Concen: 99.30 ng
RT: 11.08 min Scan# 831
Delta R.T. -0.06 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1042359		
176	19.9		15.8	23.6
179	15.9		13.0	19.4





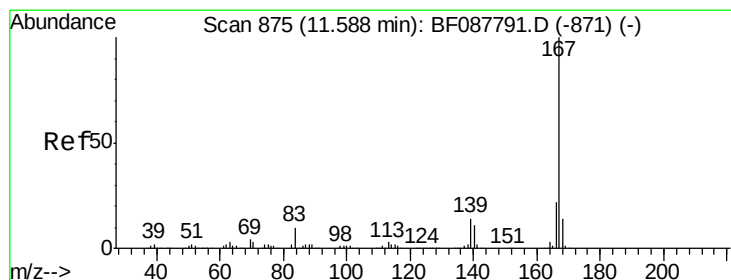
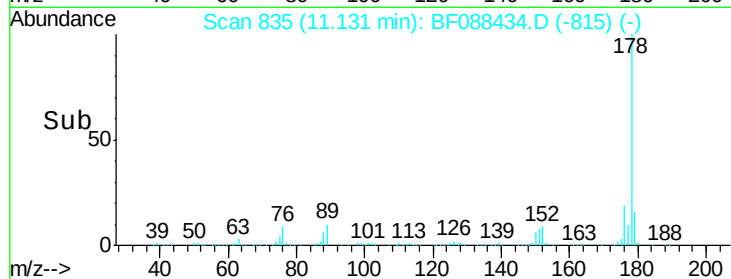
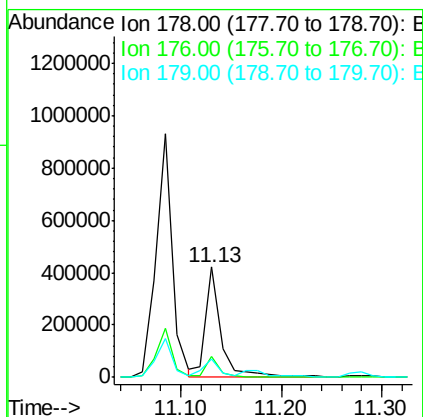
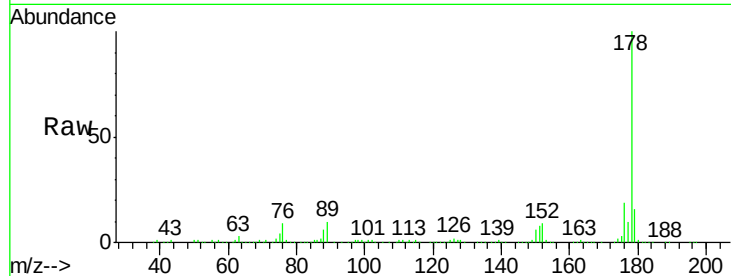
#71
 Anthracene
 Concen: 41.60 ng
 RT: 11.13 min Scan# 835
 Delta R.T. -0.07 min
 Lab File: BF088434.D
 Acq: 26 Jun 2016 22:49

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.6	23.4
179	16.1	12.8	19.2

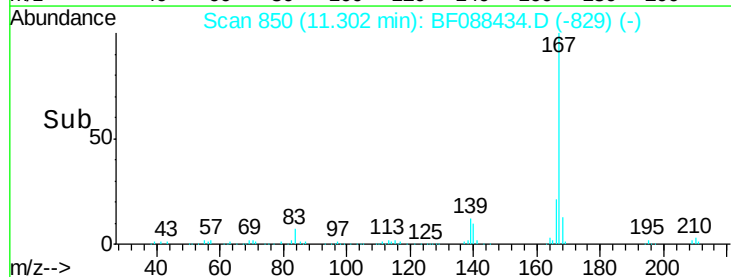
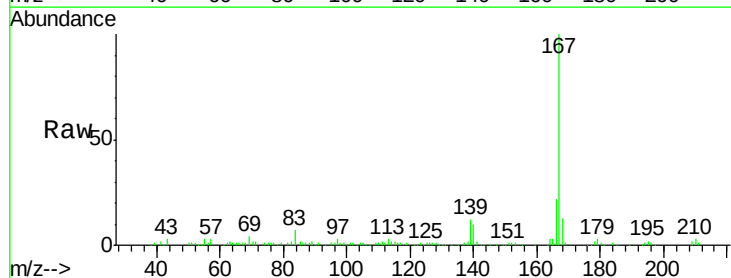
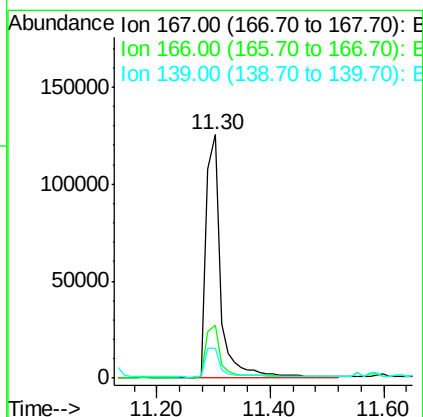
Manual Integrations
 APPROVED

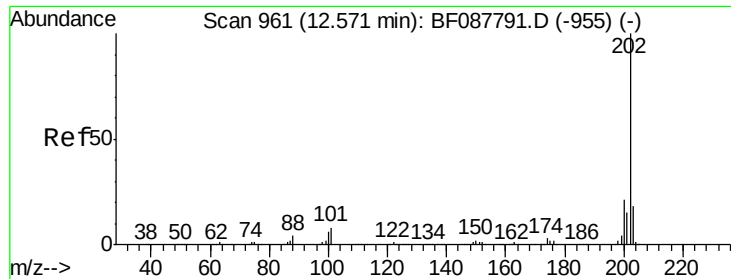
sohil
 6/27/2016 8:02:34 PM



#72
 Carbazole
 Concen: 21.34 ng
 RT: 11.30 min Scan# 850
 Delta R.T. -0.06 min
 Lab File: BF088434.D
 Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.8	26.6
139	12.5	11.2	16.8





#74

Fluoranthene

Concen: 192.89 ng

RT: 12.29 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF088434.D

Acq: 26 Jun 2016 22:49

Instrument :

BNA_F

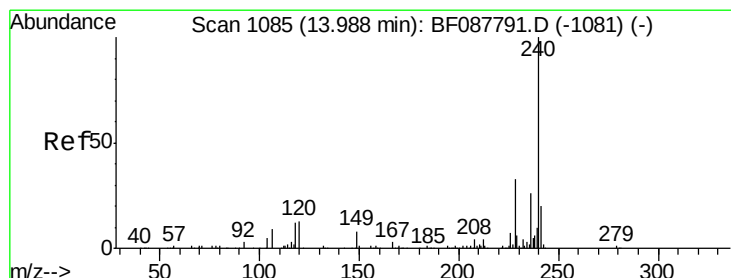
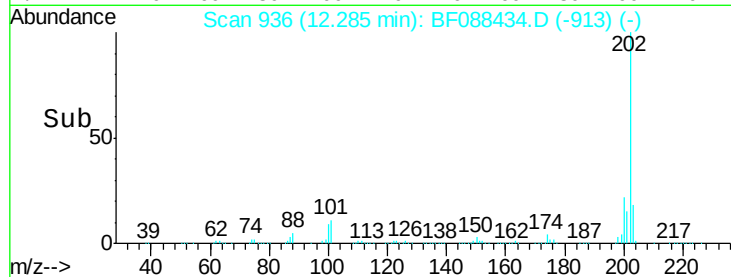
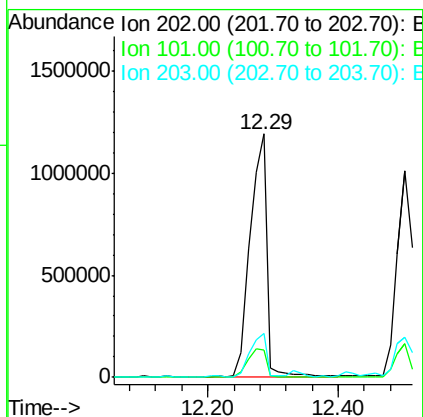
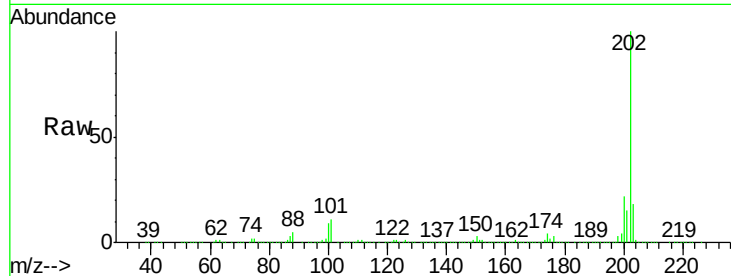
ClientSampleId :

SUBSURFACEDUP

Tot Ion:	202	Resp:	2136737
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	33.1
203	17.9	0.0	38.1

Manual Integrations
APPROVED

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#75

Chrysene-d12

Concen: 20.00 ng

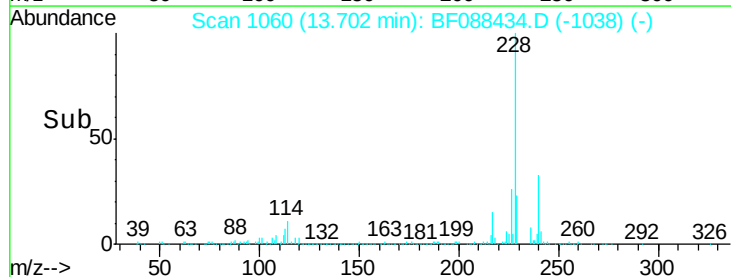
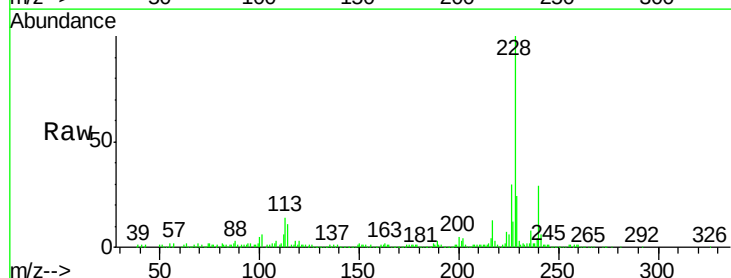
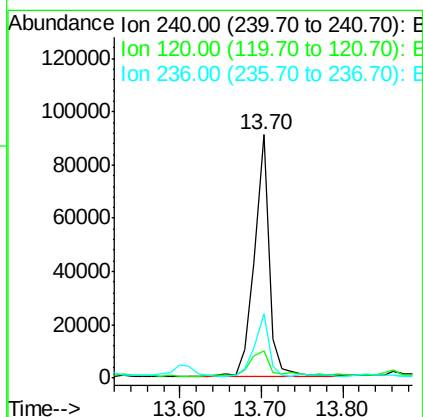
RT: 13.70 min Scan# 1060

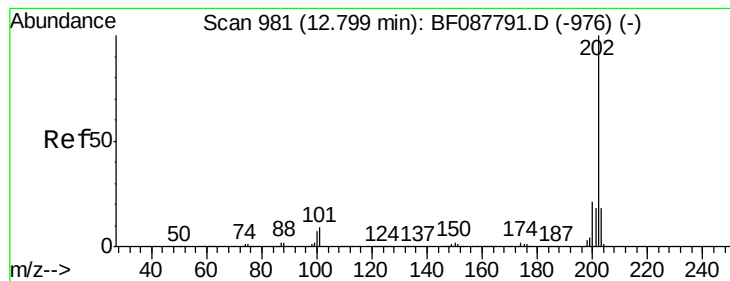
Delta R.T. -0.05 min

Lab File: BF088434.D

Acq: 26 Jun 2016 22:49

Tgt Ion:	240	Resp:	116412
Ion	Ratio	Lower	Upper
240	100		
120	11.3	6.8	10.2#
236	26.5	20.2	30.2





#77

Pvrene

Concen: 199.83 ng

RT: 12.50 min Scan# 955

Delta R.T. -0.05 min

Lab File: BF088434.D

Acq: 26 Jun 2016 22:49

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUP

Tot Ion:202 Resp: 1726200

Ion Ratio Lower Upper

202 100

200 22.3 17.4 26.2

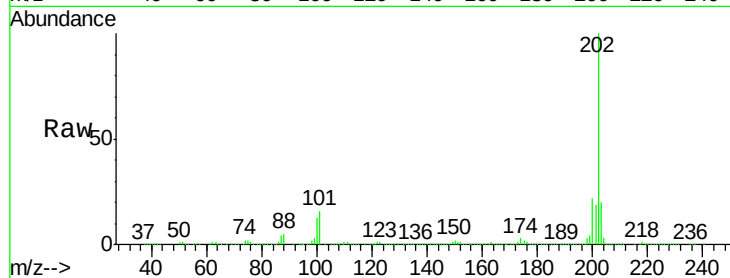
203 19.6 14.5 21.7

Manual Integrations

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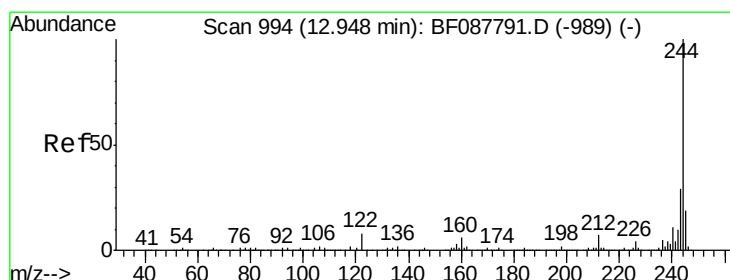
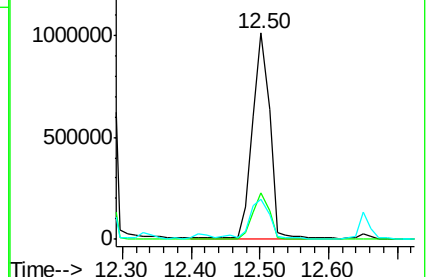
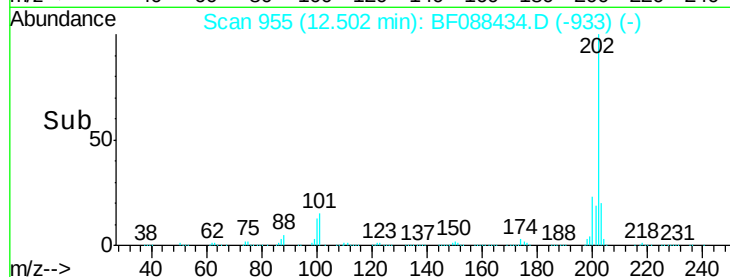
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 17.76 ng

RT: 12.64 min Scan# 967

Delta R.T. -0.06 min

Lab File: BF088434.D

Acq: 26 Jun 2016 22:49

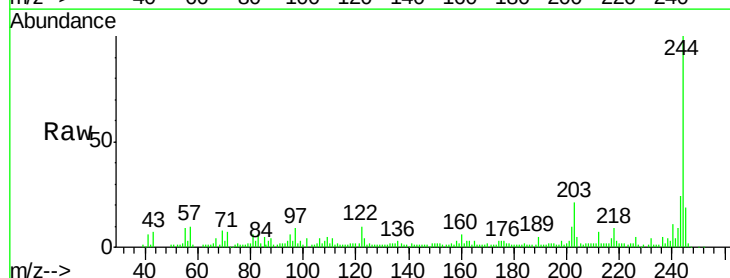
Tgt Ion:244 Resp: 90865

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

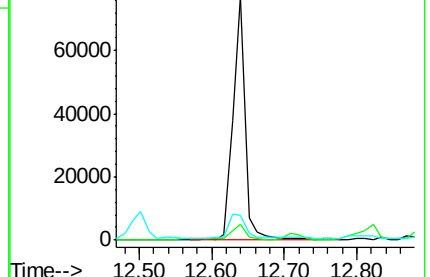
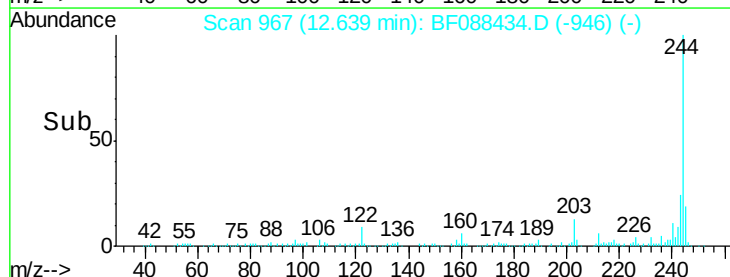
122 9.9 11.2 16.8#

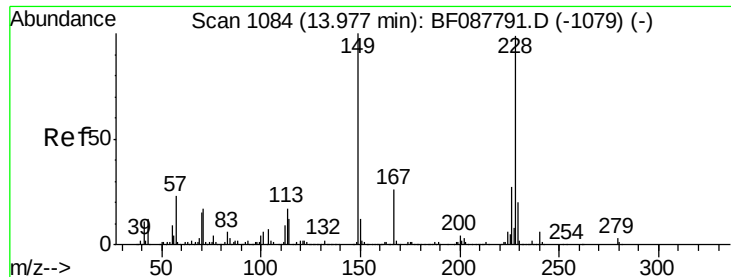


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





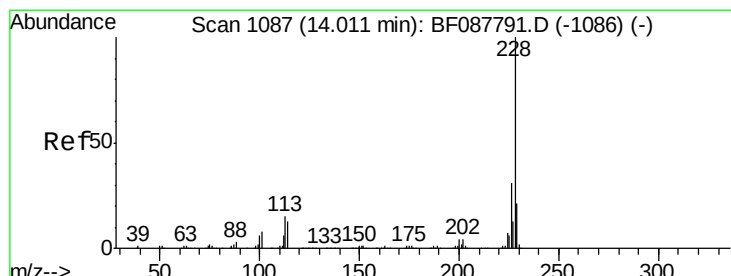
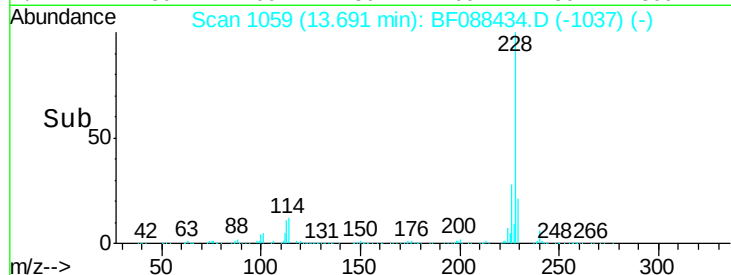
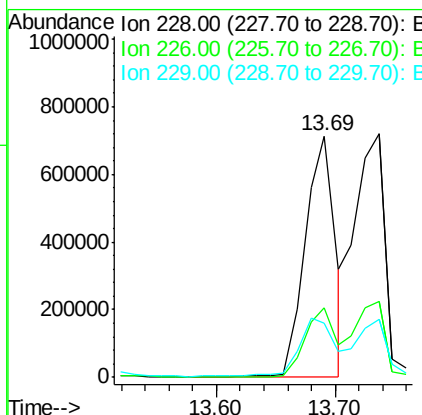
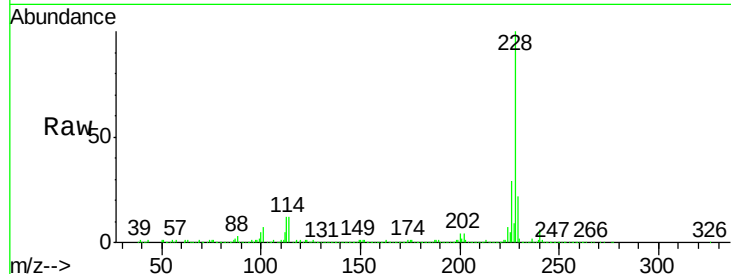
#80
Benzo(a)anthracene
Concen: 186.77 ng
RT: 13.69 min Scan# 1059
Delta R.T. -0.05 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.3	33.5
229	22.2	16.0	24.0

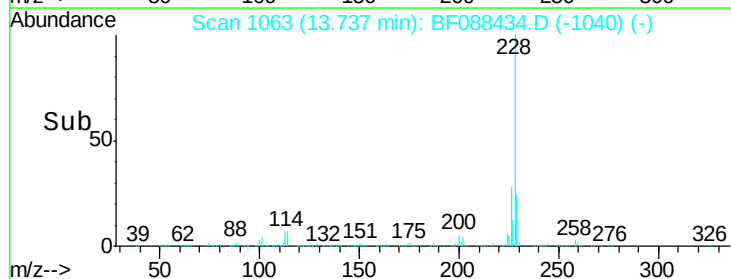
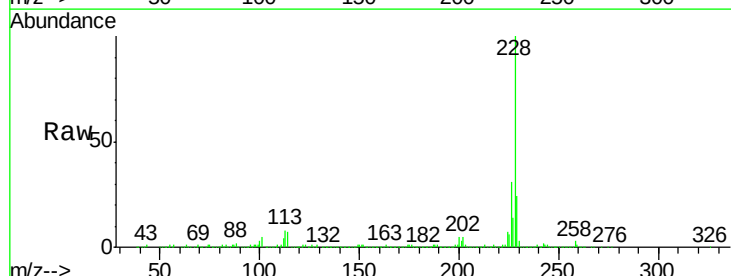
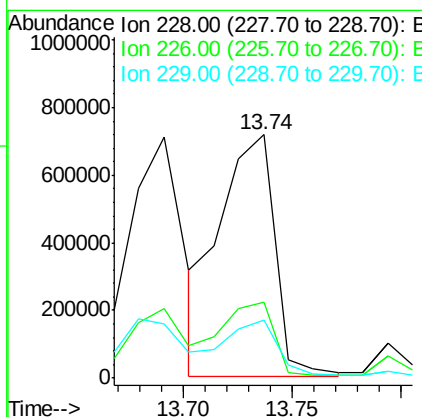
Manual Integrations
APPROVED

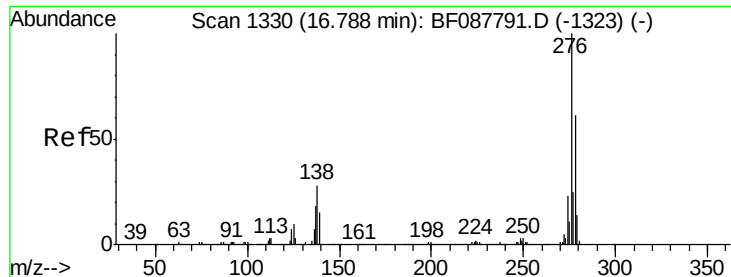
sohil
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#82
Chrysene
Concen: 200.21 ng
RT: 13.74 min Scan# 1063
Delta R.T. -0.03 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.4	38.2
229	24.1	16.3	24.5





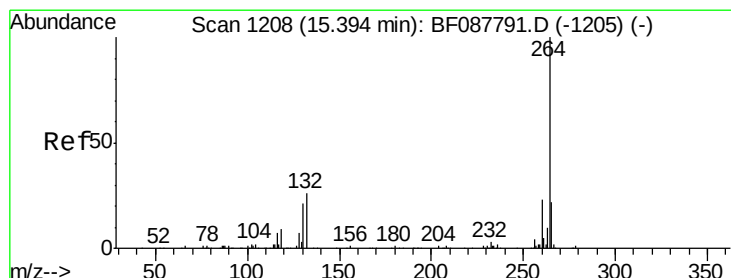
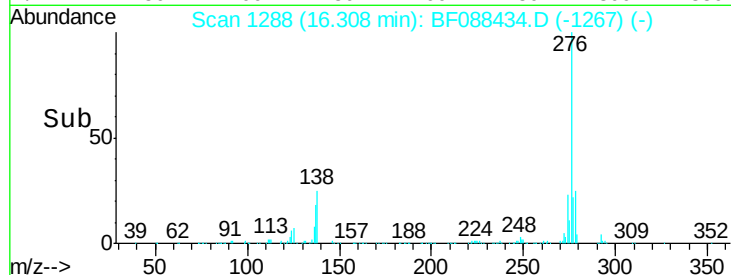
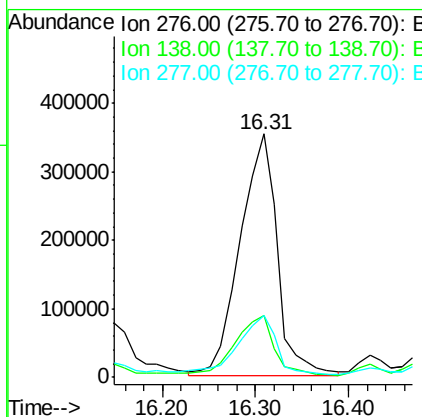
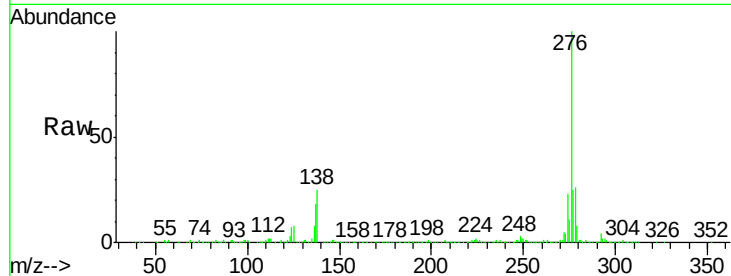
#85
Indeno(1,2,3-cd)pyrene
Concen: 168.15 ng
RT: 16.31 min Scan# 1288
Delta R.T. -0.06 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	27.0	0.0	0.0#
277	24.5	0.0	0.0#

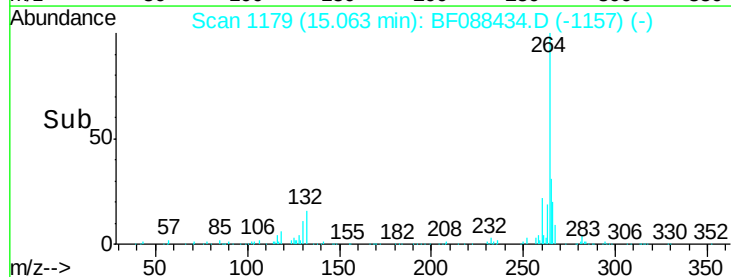
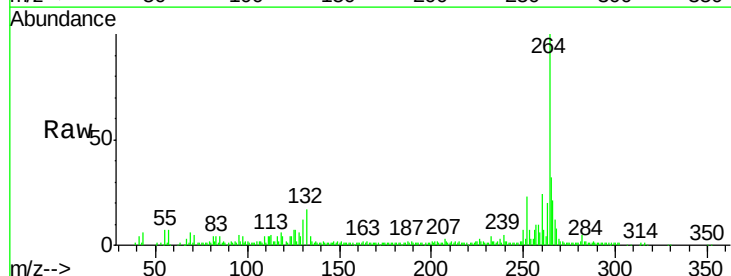
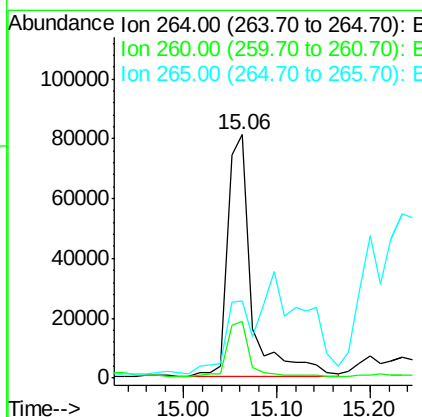
Manual Integrations
APPROVED

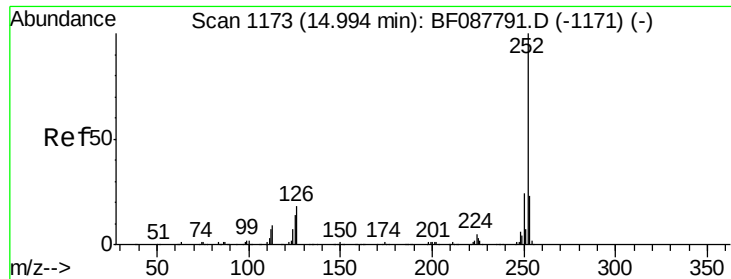
sohil
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.06 min Scan# 1179
Delta R.T. -0.05 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.6	19.2	28.8
265	31.9	16.9	25.3#





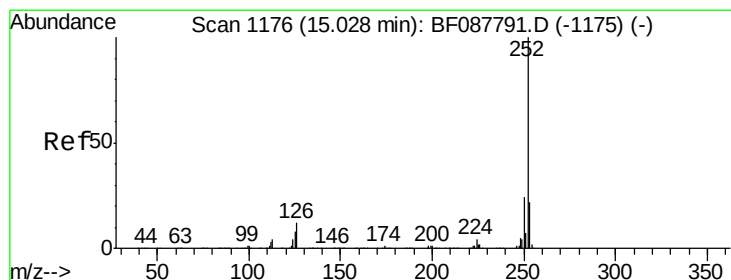
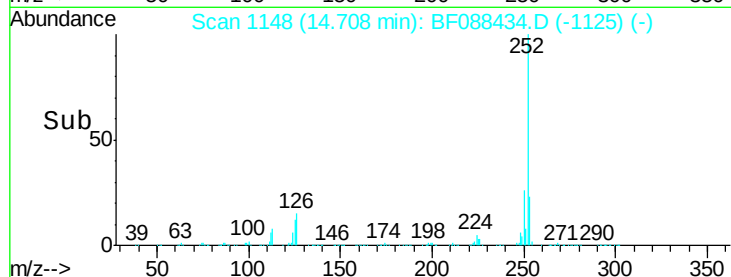
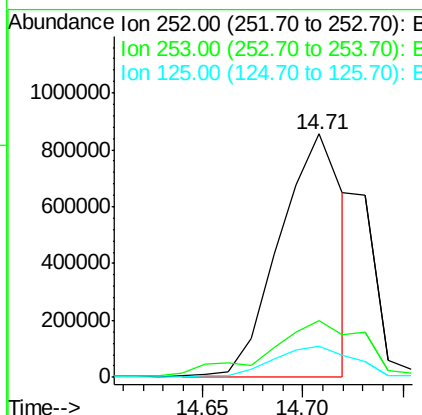
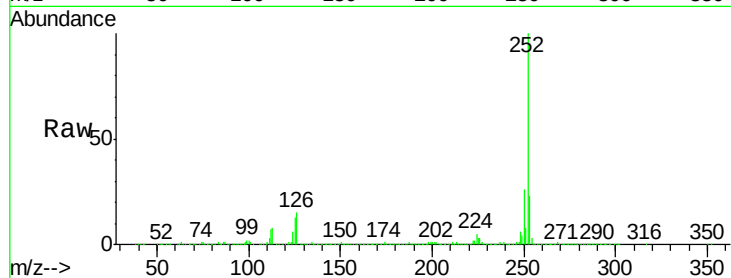
#87
Benzo(b)fluoranthene
Concen: 189.60 ng m
RT: 14.71 min Scan# 1148
Delta R.T. -0.03 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.2
125	12.6	7.1	10.7

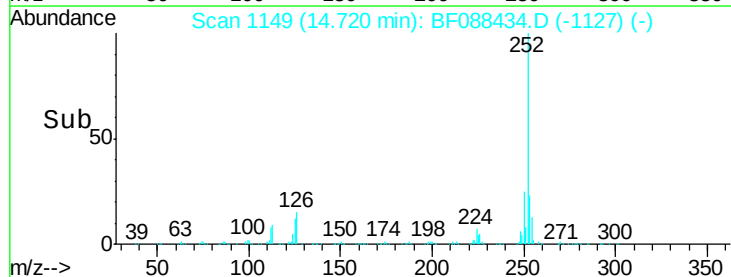
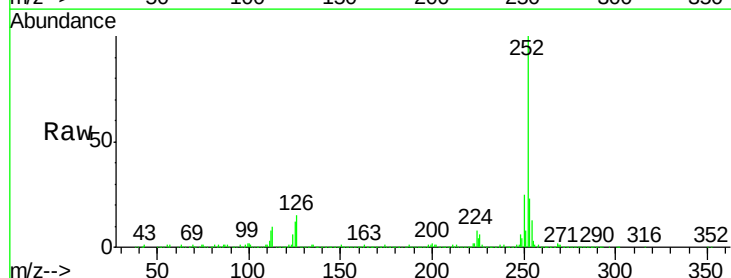
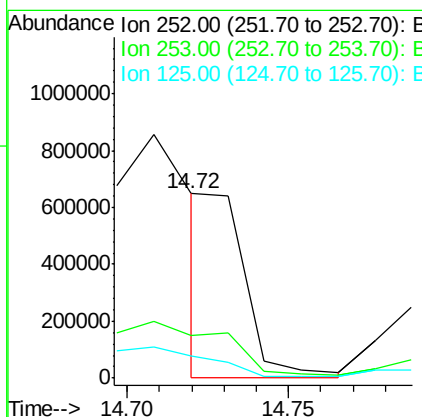
Manual Integrations
APPROVED

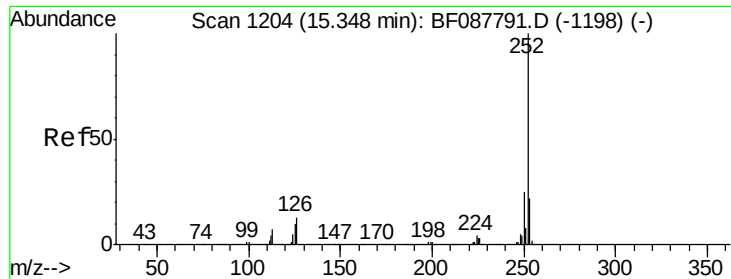
sohil
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#88
Benzo(k)fluoranthene
Concen: 67.75 ng m
RT: 14.72 min Scan# 1149
Delta R.T. -0.05 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	12.0	11.2	16.8





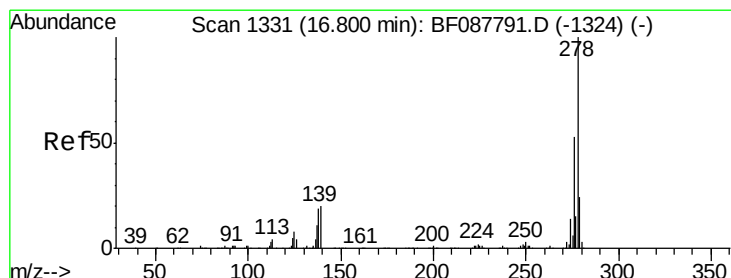
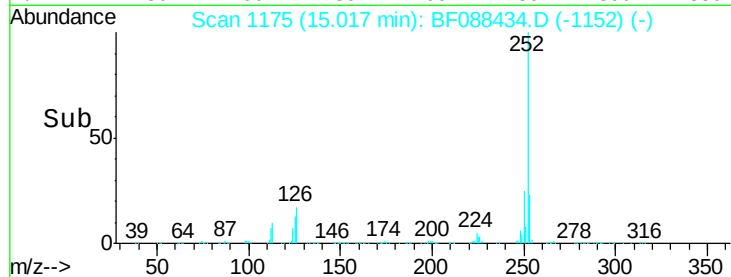
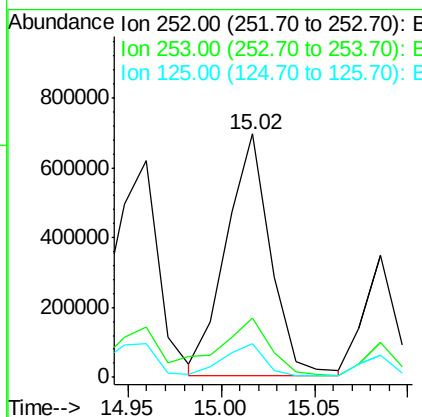
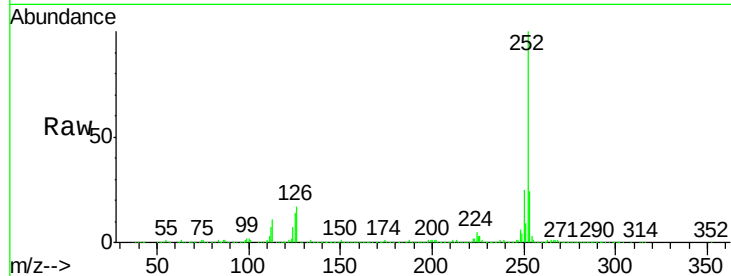
#89
Benzo(a)pyrene
Concen: 140.25 ng
RT: 15.02 min Scan# 1175
Delta R.T. -0.03 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUP

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	13.6	12.5	18.7

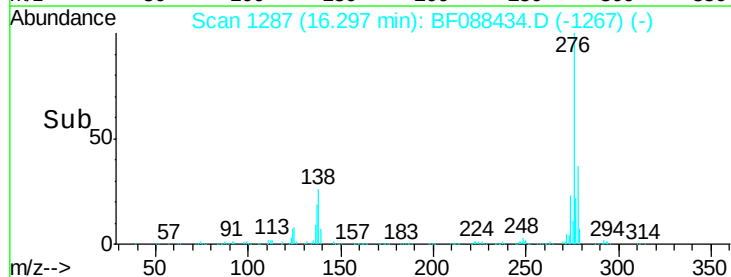
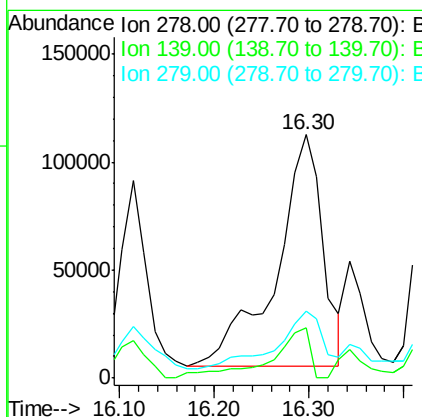
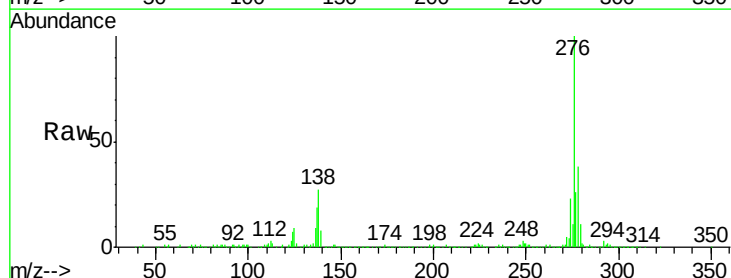
Manual Integrations
APPROVED

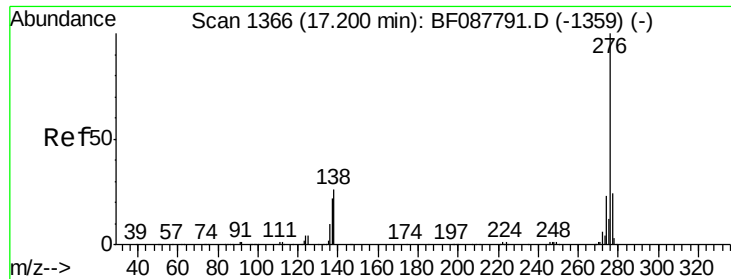
sohil
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#90
Dibenzo(a,h)anthracene
Concen: 48.72 ng m
RT: 16.30 min Scan# 1287
Delta R.T. -0.07 min
Lab File: BF088434.D
Acq: 26 Jun 2016 22:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.8	15.7	23.5
279	27.4	19.4	29.2





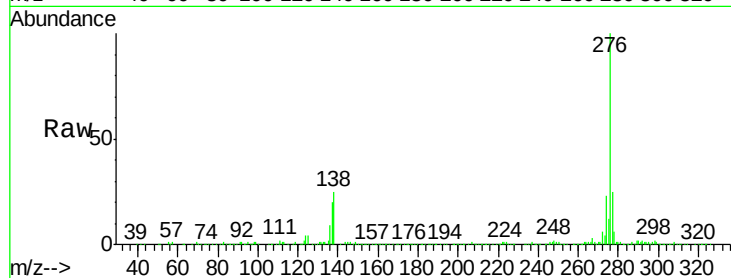
#91
 Benzo(a,h,i)perylene
 Concen: 118.15 ng
 RT: 16.69 min Scan# 1321
 Delta R.T. -0.06 min
 Lab File: BF088434.D
 Acq: 26 Jun 2016 22:49

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUP

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	25.4	18.9	28.3
138	24.5	21.4	32.2

Manual Integrations
 APPROVED

sohil
 6/27/2016 8:02:34 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

