

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086079.D
 Acq On : 5 Apr 2016 12:02
 Operator : UM/SJ
 Sample : H2025-01DL 5X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-PH3-SOIL-32816DL

Manual Integrations
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 4/5/2016 6:39:23 PM

Quant Time: Apr 05 13:03:22 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	125787	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	461867	20.00	ng	-0.02
38) Acenaphthene-d10	9.80	164	193597	20.00	ng	-0.01
63) Phenanthrene-d10	11.28	188	306278	20.00	ng	-0.02
75) Chrysene-d12	13.92	240	237718	20.00	ng	-0.01
86) Perylene-d12	15.32	264	213330	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	190575	25.90	ng	-0.01
7) Phenol-d6	6.41	99	246758	26.40	ng	-0.01
23) Nitrobenzene-d5	7.33	82	138747	17.72	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	38139	20.99	ng	-0.01
44) 2-Fluorobiphenyl	9.12	172	225747	19.39	ng	-0.02
78) Terphenyl-d14	12.87	244	137433	13.59	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.06	128	92386	3.98	ng	100
48) Acenaphthylene	9.66	152	122011	6.29	ng	97
49) Dimethylphthalate	9.52	163	40050	2.79	ng	97
51) Acenaphthene	9.82	154	86546	7.51	ng	100
57) Fluorene	10.35	166	56325	4.33	ng	98
70) Phenanthrene	11.31	178	480148	28.74	ng	99
71) Anthracene	11.36	178	175702	10.04	ng	98
74) Fluoranthene	12.50	202	702301	40.41	ng	90
77) Pyrene	12.73	202	1038083	61.97	ng	100
80) Benzo(a)anthracene	13.91	228	407812	29.10	ng	# 88
82) Chrysene	13.94	228	277613m	20.57	ng	
85) Indeno(1,2,3-cd)pyrene	16.67	276	156393	14.28	ng	94
87) Benzo(b)fluoranthene	14.93	252	389339m	29.01	ng	
88) Benzo(k)fluoranthene	14.95	252	92447m	7.78	ng	
89) Benzo(a)pyrene	15.27	252	276505	23.25	ng	99
90) Dibenzo(a,h)anthracene	16.68	278	35861m	3.75	ng	
91) Benzo(g,h,i)perylene	17.08	276	161741	17.47	ng	96

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

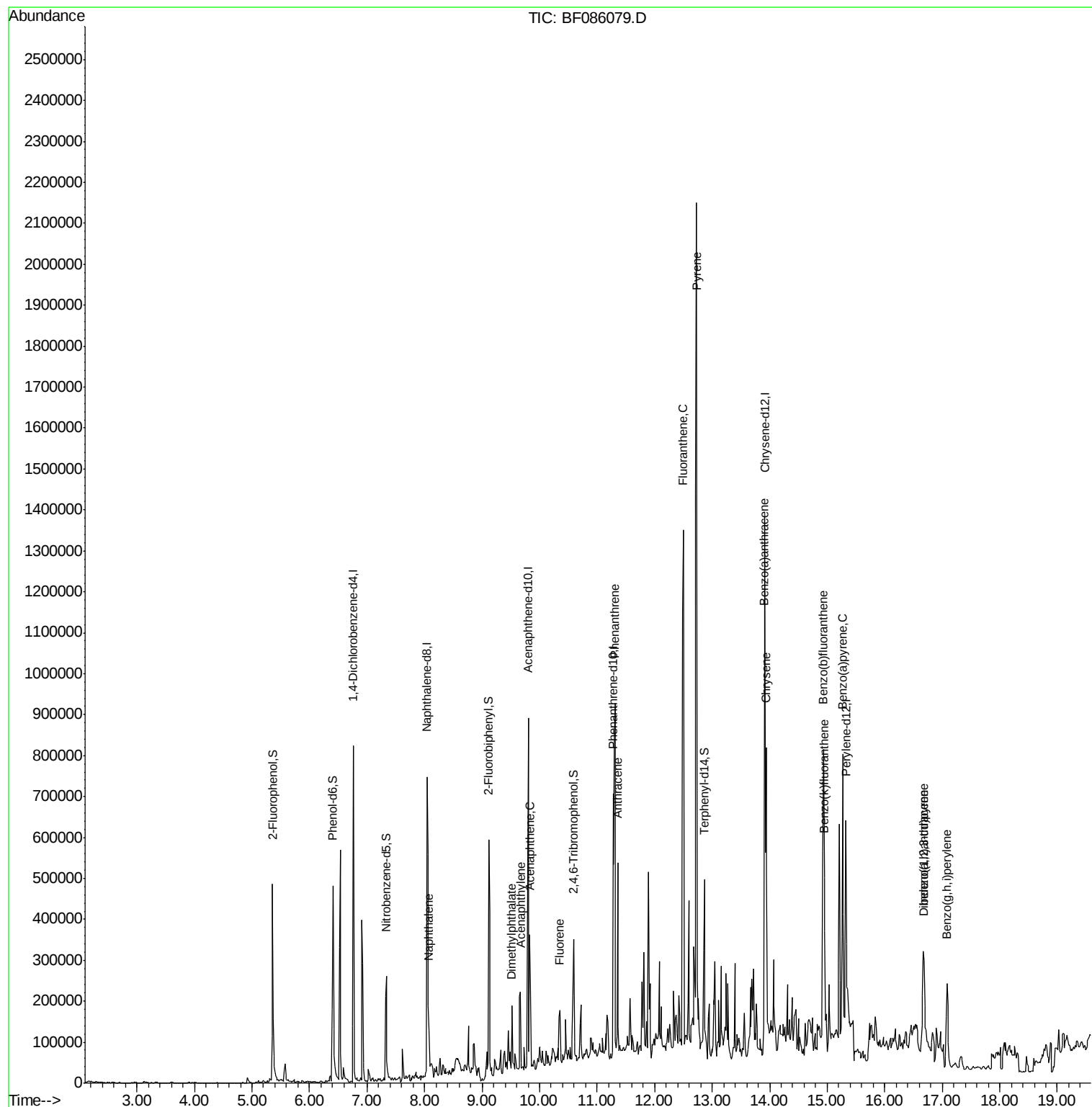
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
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ALS Vial : 43 Sample Multiplier: 1

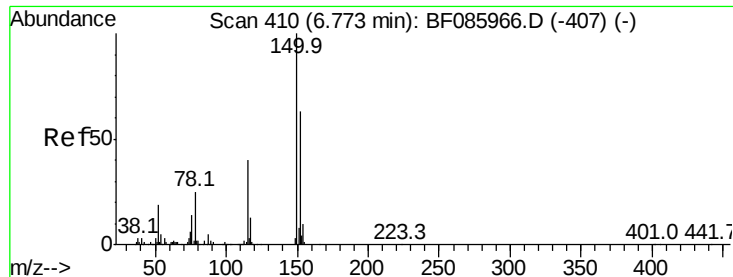
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

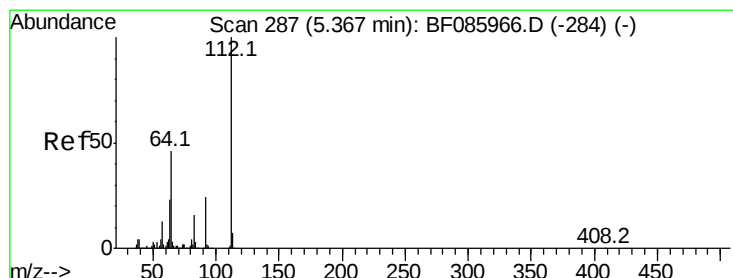
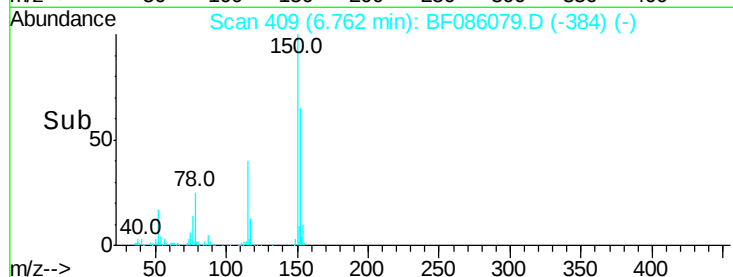
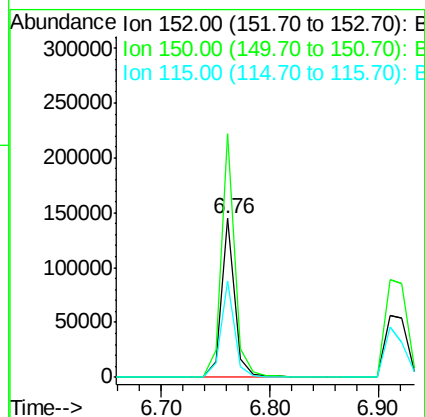
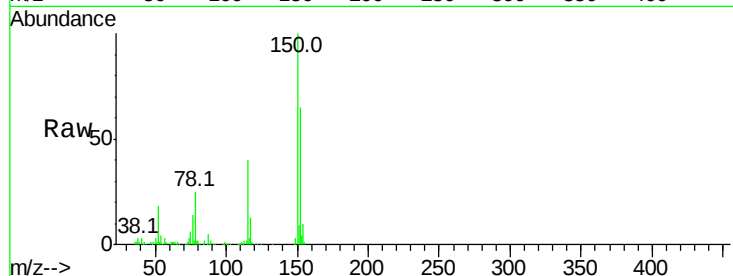
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Tot Ion	152	Resp	125787
Ion Ratio	Lower	Upper	
152	100		
150	153.4	124.2	186.2
115	60.7	47.0	70.6



#5

2-Fluorophenol

Concen: 25.90 ng

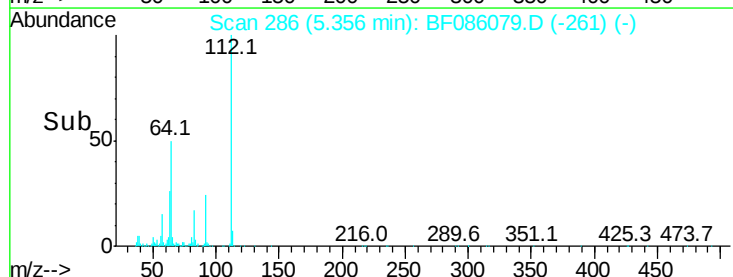
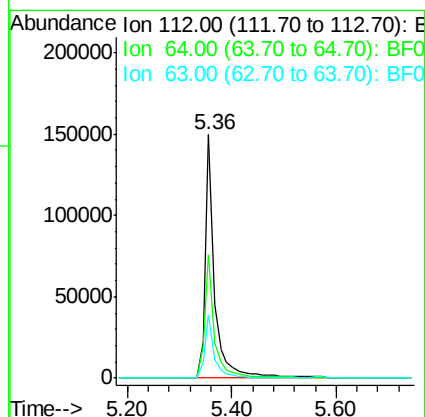
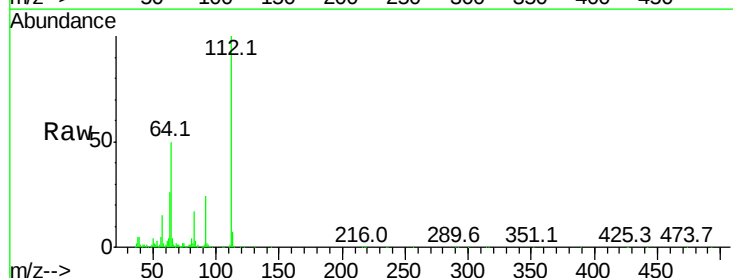
RT: 5.36 min Scan# 286

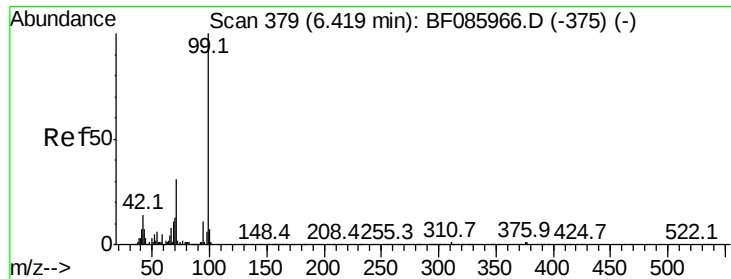
Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Tgt Ion	112	Resp	190575
Ion Ratio	Lower	Upper	
112	100		
64	50.4	39.9	59.9
63	25.9	20.2	30.2





#7

Phenol-d6

Concen: 26.40 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

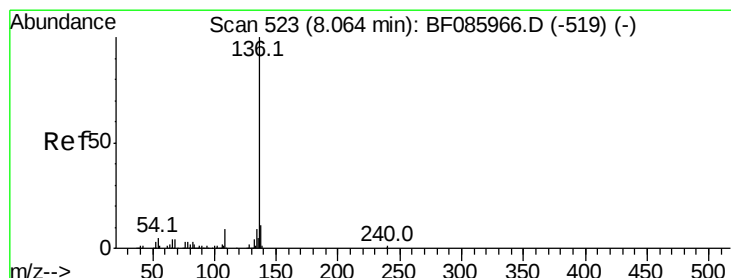
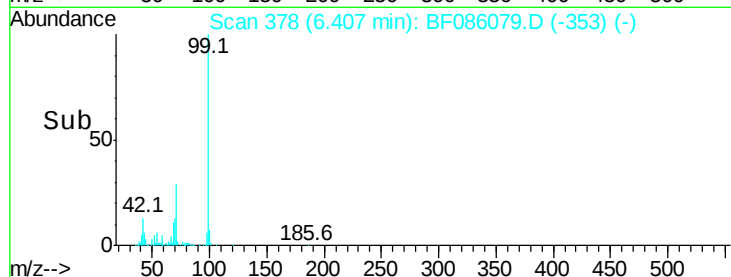
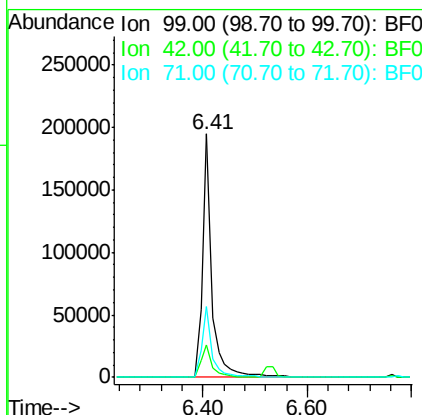
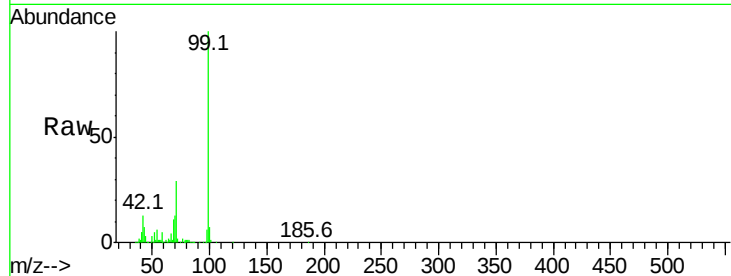
ClientSampleId :

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Tot Ion:	99	Resp:	246758
Ion Ratio	Lower	Upper	
99	100		
42	13.4	11.1	16.7
71	29.3	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

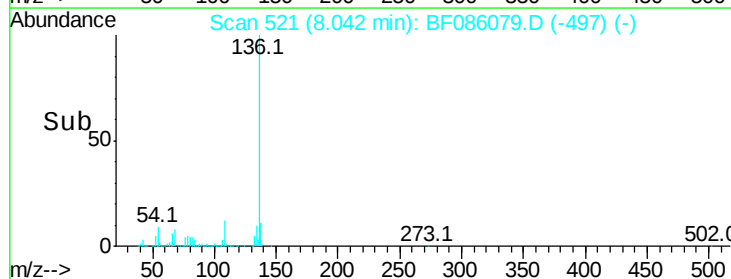
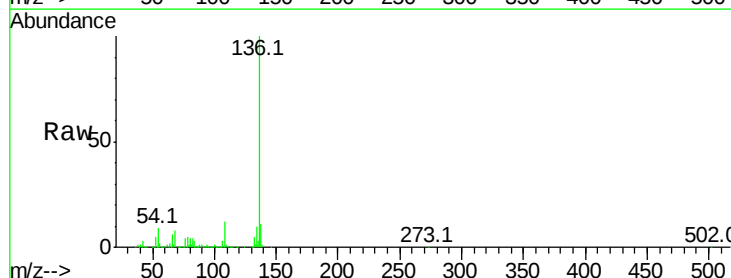
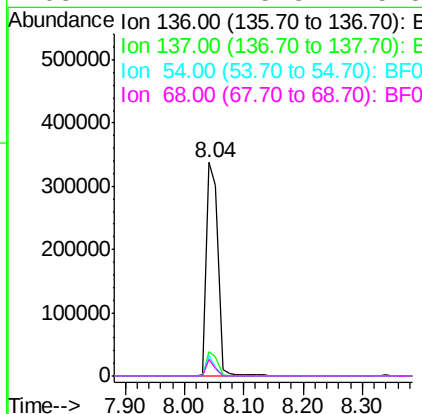
RT: 8.04 min Scan# 521

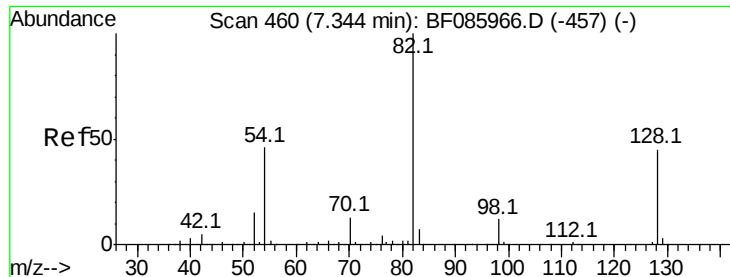
Delta R.T. -0.02 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Tgt Ion:	136	Resp:	461867
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	9.3	7.4	11.0
68	7.7	5.8	8.8





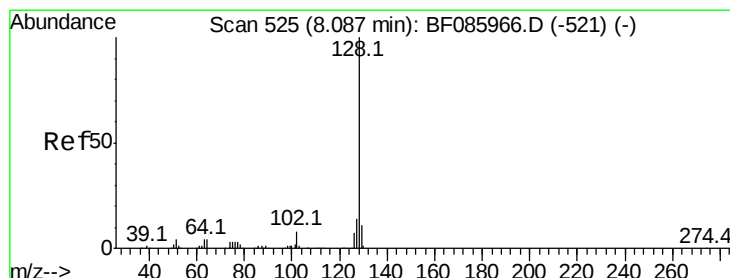
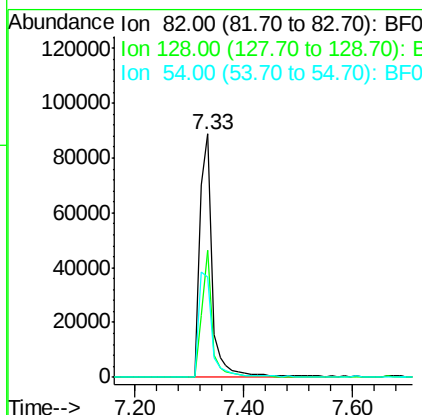
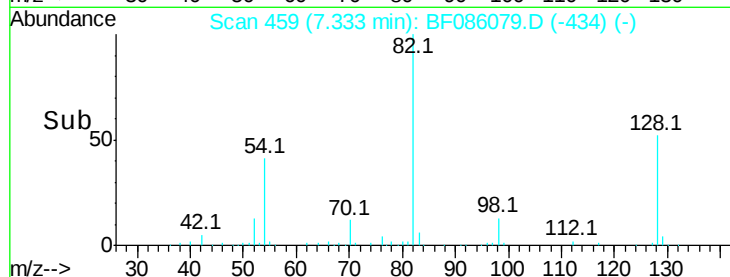
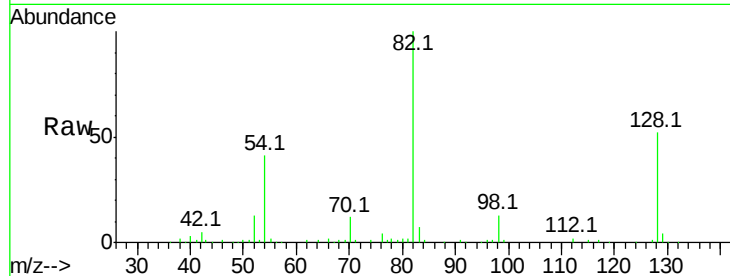
#23
Nitrobenzene-d5
Concen: 17.72 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	52.0	41.8	62.8	
54	40.9	33.4	50.0	

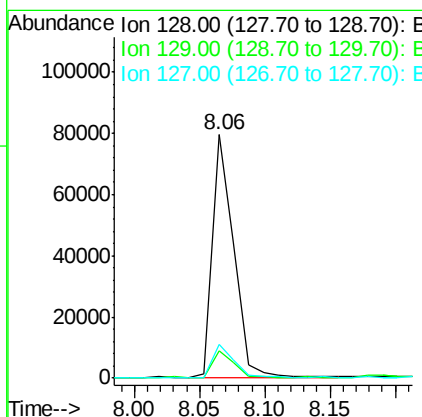
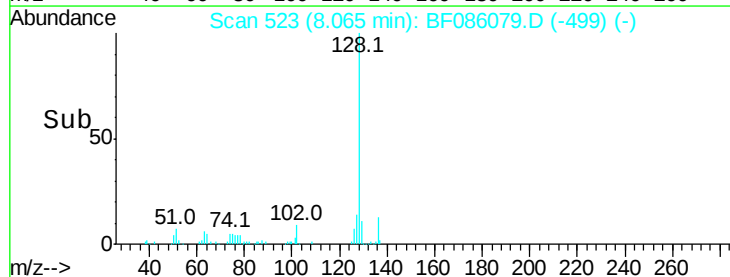
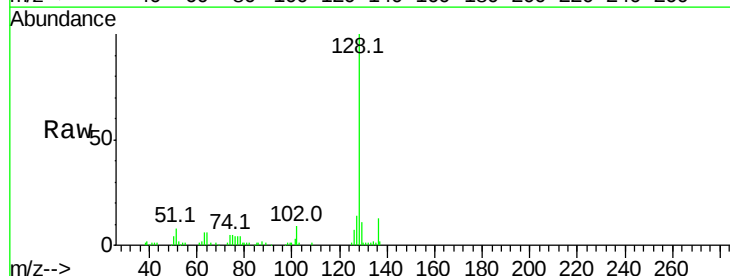
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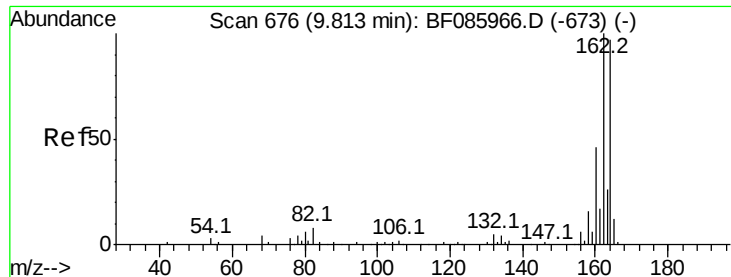
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#31
Naphthalene
Concen: 3.98 ng
RT: 8.06 min Scan# 523
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.5	9.4	14.0	
127	13.9	11.0	16.6	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

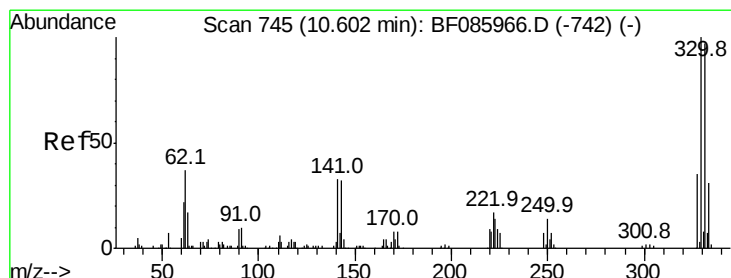
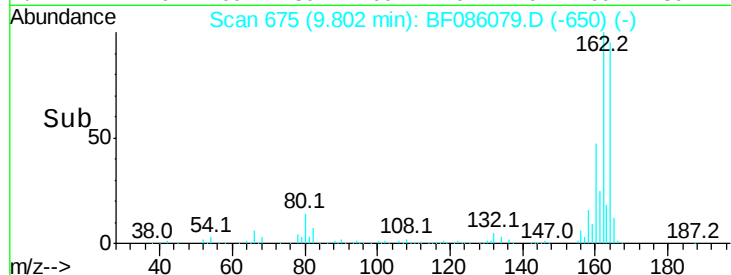
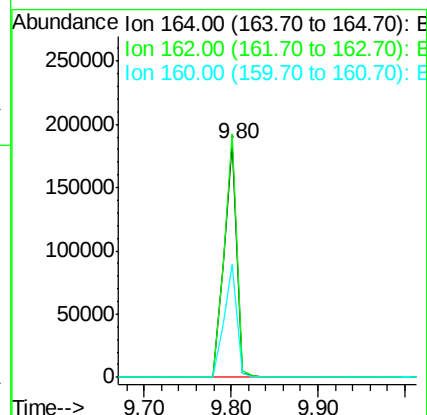
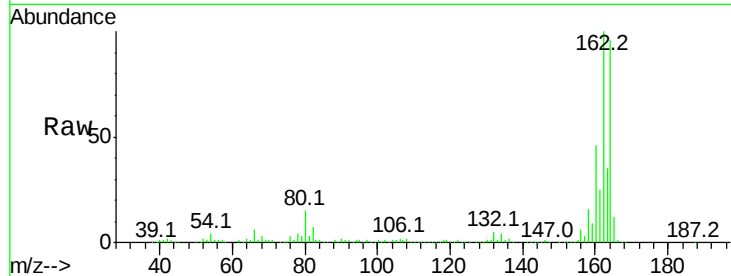
ClientSampleId :

CS-PH3-SOIL-32816DL

Tot Ion:	164	Resp:	193597
Ion Ratio	Lower	Upper	
164	100		
162	103.9	82.1	123.1
160	48.2	37.4	56.2

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#41

2,4,6-Tribromophenol

Concen: 20.99 ng

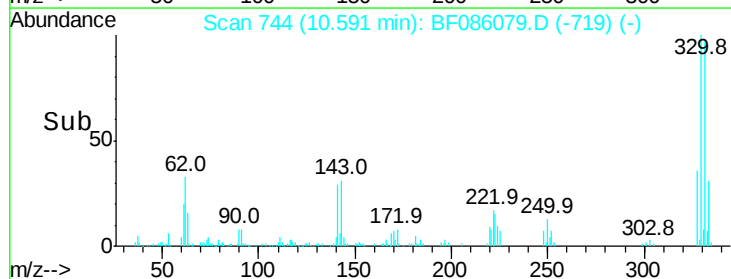
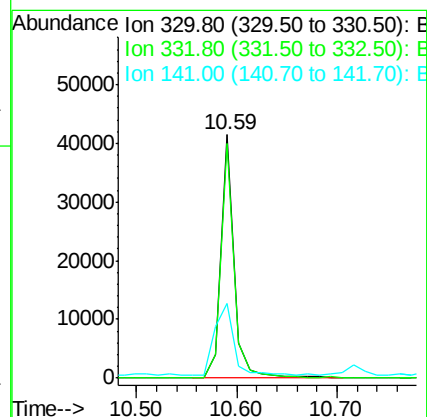
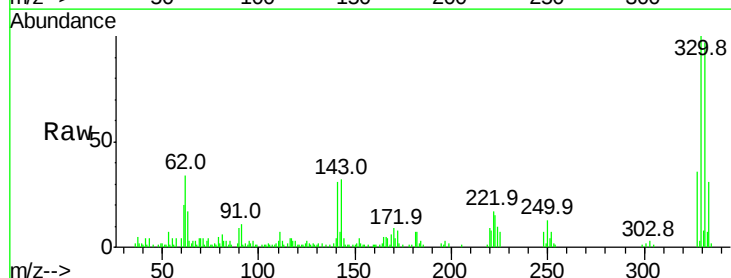
RT: 10.59 min Scan# 744

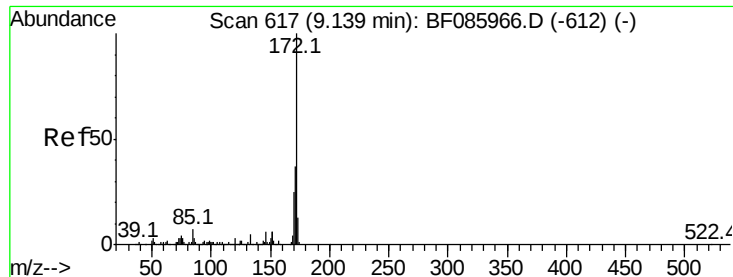
Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Tgt Ion:	330	Resp:	38139
Ion Ratio	Lower	Upper	
330	100		
332	96.2	78.2	117.2
141	43.2	31.5	47.3





#44

2-Fluorobiphenyl

Concen: 19.39 ng

RT: 9.12 min Scan# 615

Delta R.T. -0.02 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

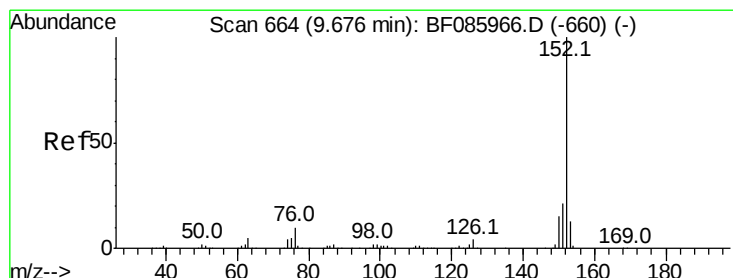
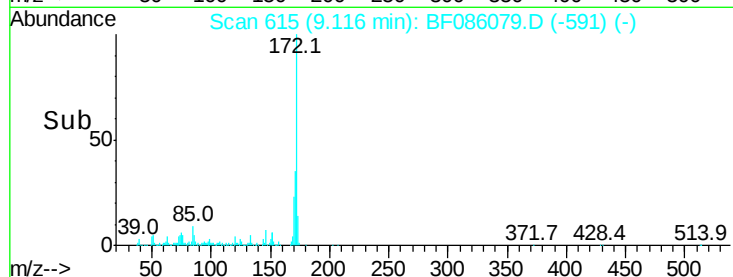
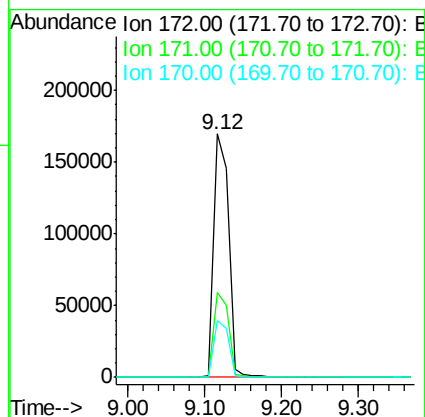
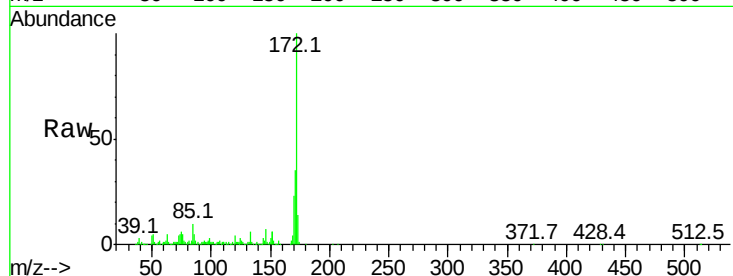
ClientSampleId :

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Tot Ion:	172	Resp:	225747
Ion Ratio	Lower	Upper	
172	100		
171	35.0	29.4	44.2
170	23.5	19.8	29.6

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#48

Acenaphthylene

Concen: 6.29 ng

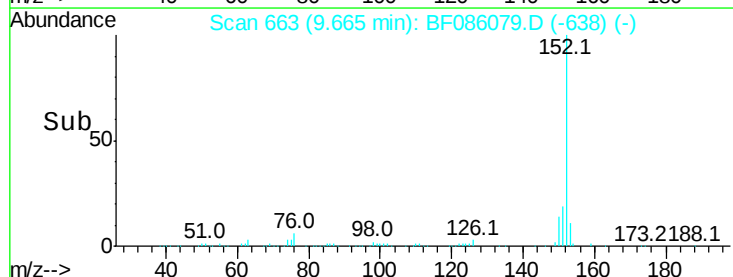
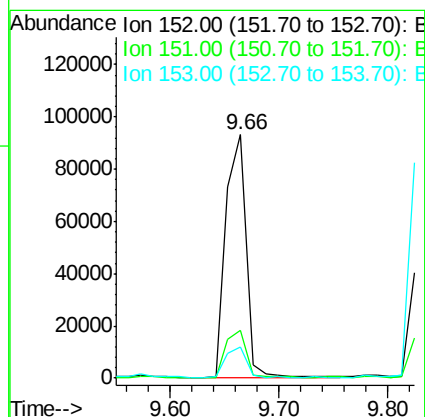
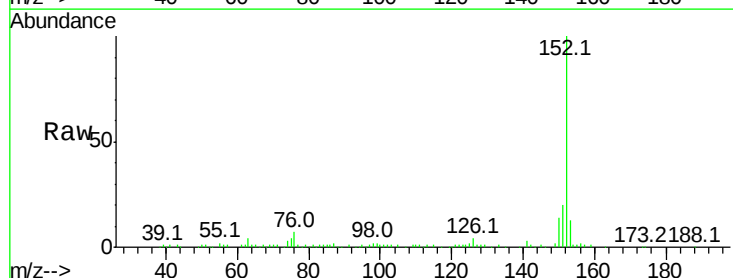
RT: 9.66 min Scan# 663

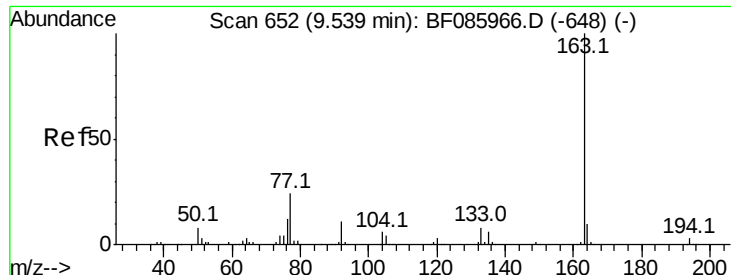
Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Tgt Ion:	152	Resp:	122011
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.8	25.2
153	12.6	10.9	16.3





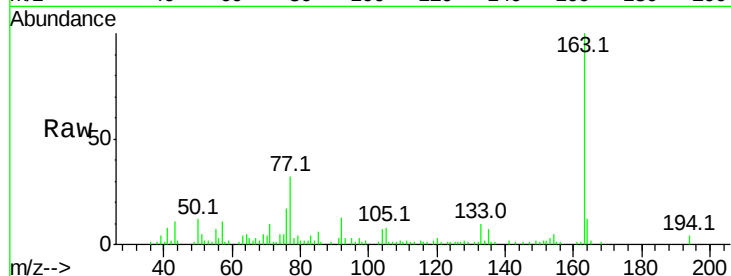
#49
Dimethylphthalate
Concen: 2.79 ng
RT: 9.52 min Scan# 650
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

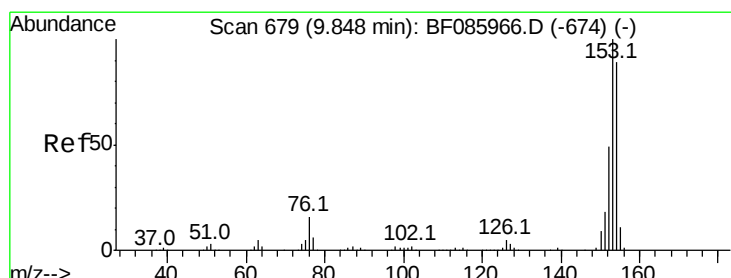
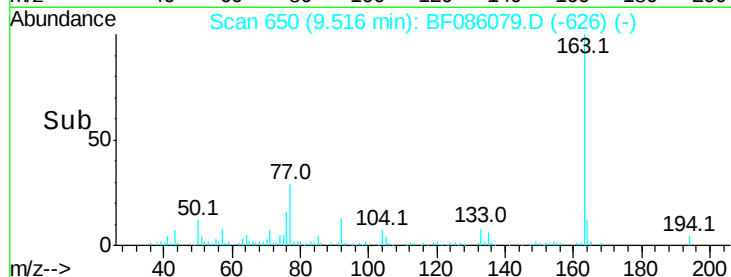
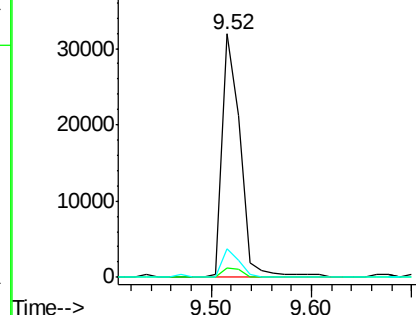
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	2.9	4.3	
164	11.9	8.3	12.5	

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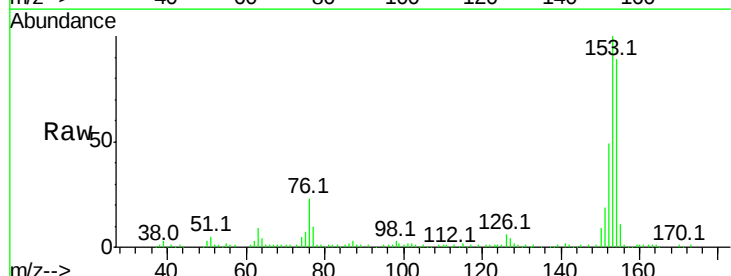


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

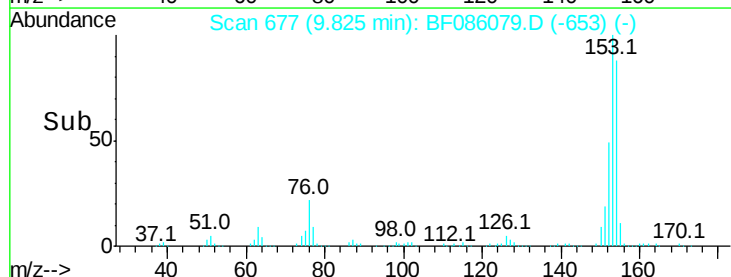
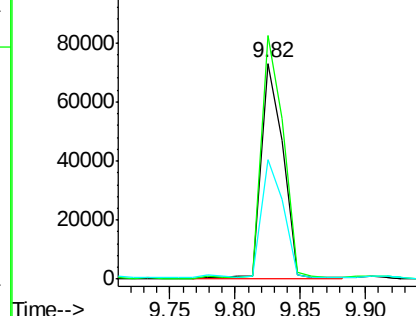


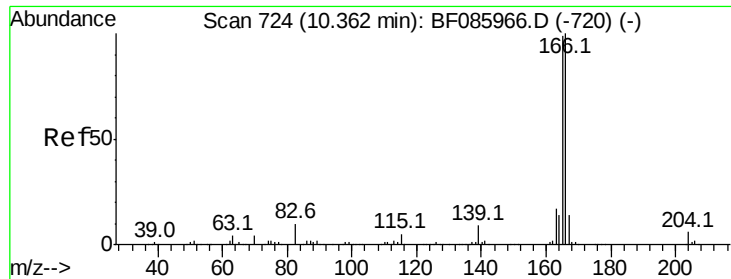
#51
Acenaphthene
Concen: 7.51 ng
RT: 9.82 min Scan# 677
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	112.9	90.1	135.1	
152	55.3	44.2	66.2	



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





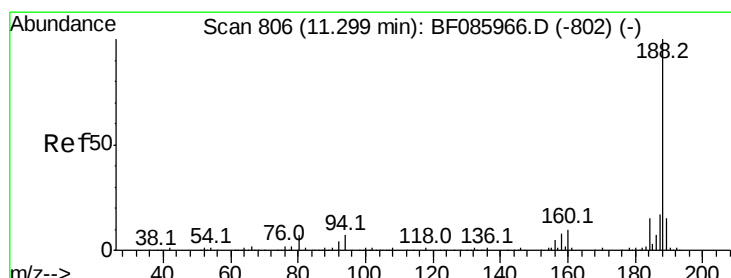
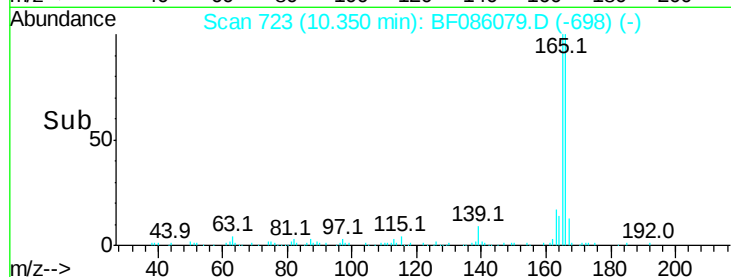
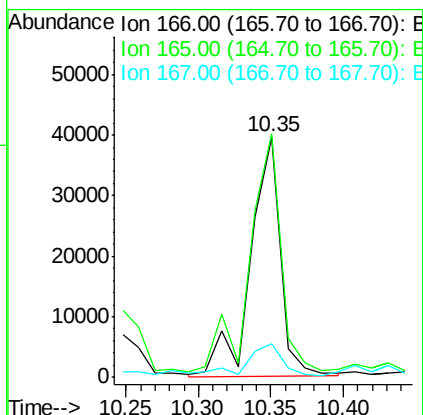
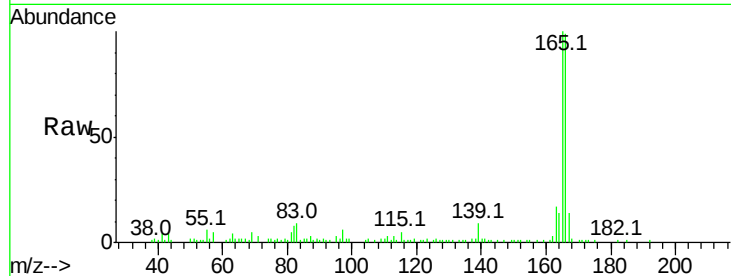
#57
Fluorene
 Concen: 4.33 ng
 RT: 10.35 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: BF086079.D
 Acq: 5 Apr 2016 12:02

Instrument :
 BNA_F
 ClientSampleId :
 CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.4	119.0
167	13.9	11.0	16.4

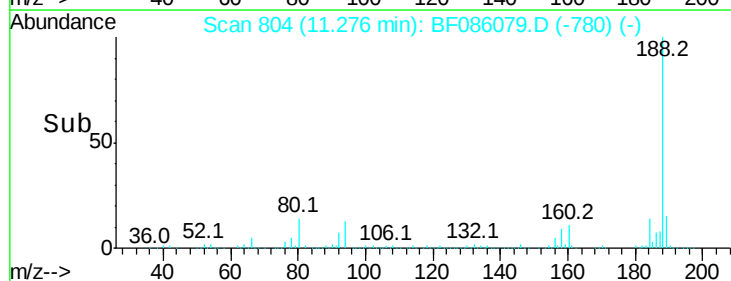
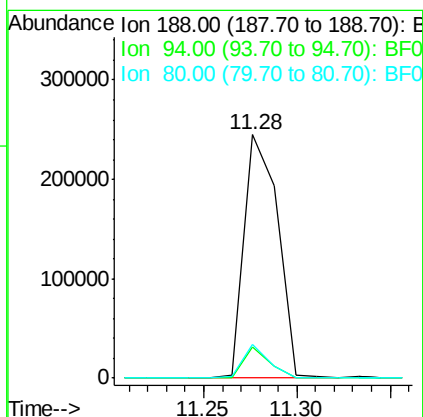
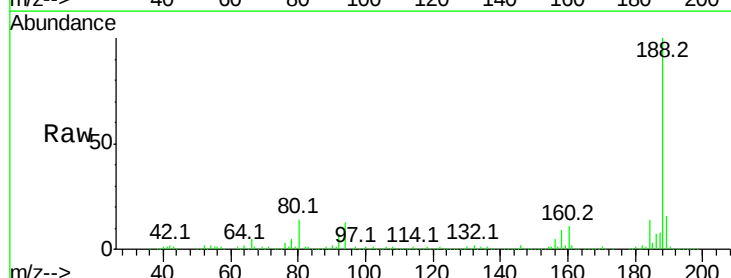
Manual Integrations
 APPROVED

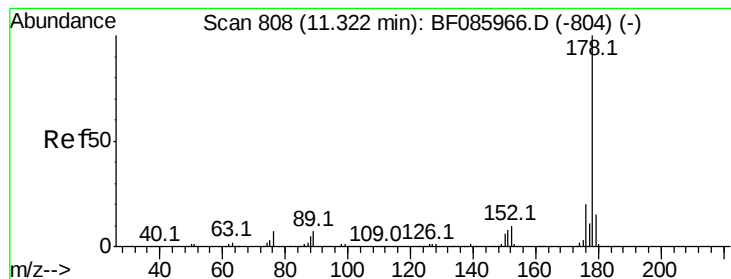
Sohil
 4/5/2016 6:39:23 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.28 min Scan# 804
 Delta R.T. -0.02 min
 Lab File: BF086079.D
 Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.9	5.4	8.0#
80	14.0	5.5	8.3#





#70

Phenanthrene

Concen: 28.74 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

Tot Ion:178 Resp: 480148

Ion Ratio Lower Upper

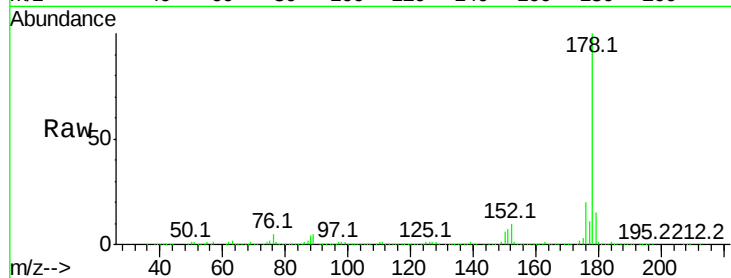
178 100

176 20.0 16.3 24.5

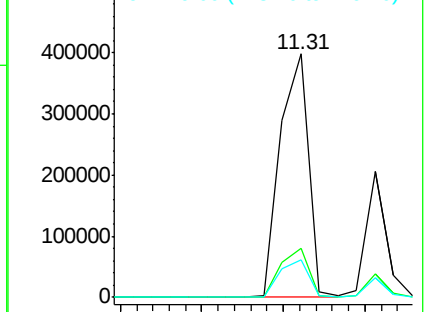
179 15.2 12.6 18.8

Manual Integrations
APPROVED

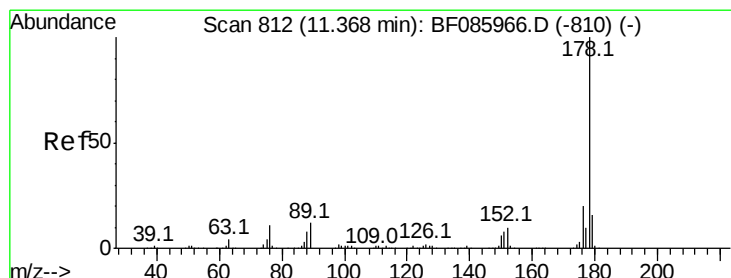
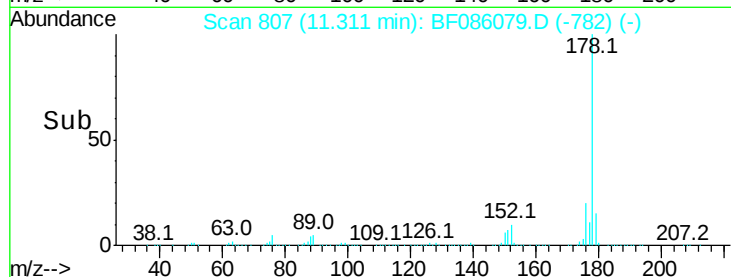
Sohil
4/5/2016 6:39:23 PM



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



Time--> 11.20 11.25 11.30 11.35



#71

Anthracene

Concen: 10.04 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Tgt Ion:178 Resp: 175702

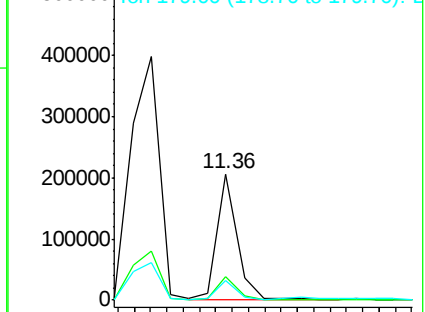
Ion Ratio Lower Upper

178 100

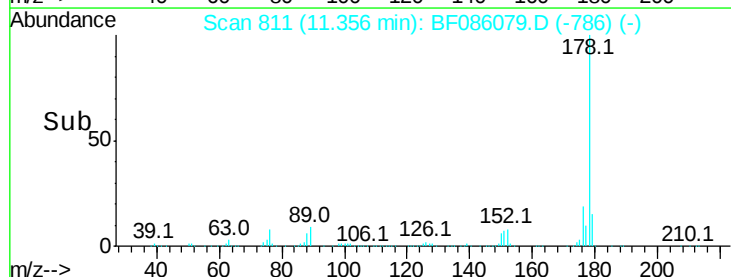
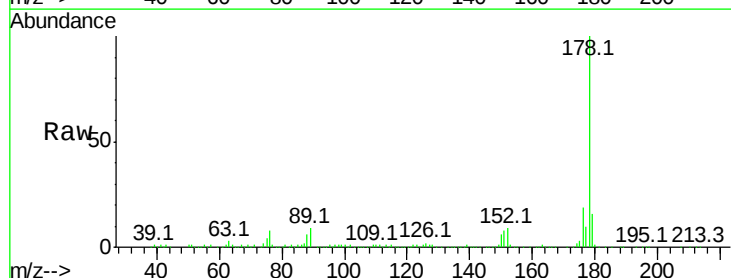
176 19.0 15.9 23.9

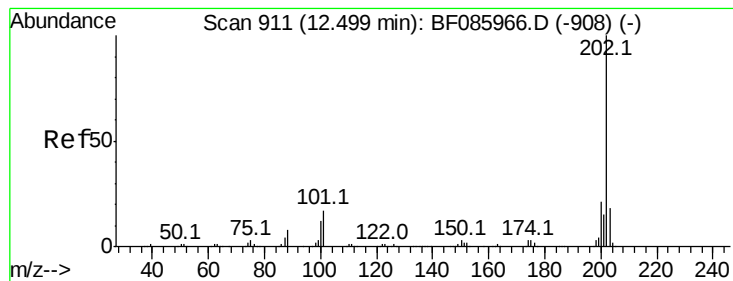
179 15.7 13.0 19.4

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



Time--> 11.30 11.35 11.40 11.45





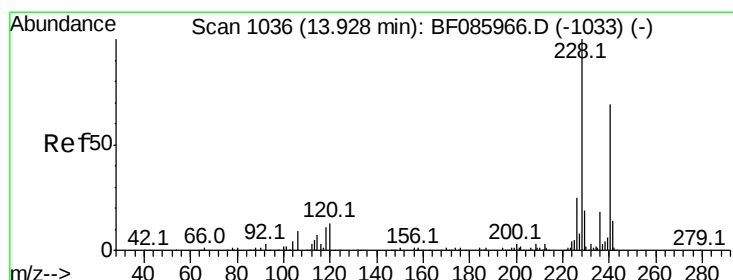
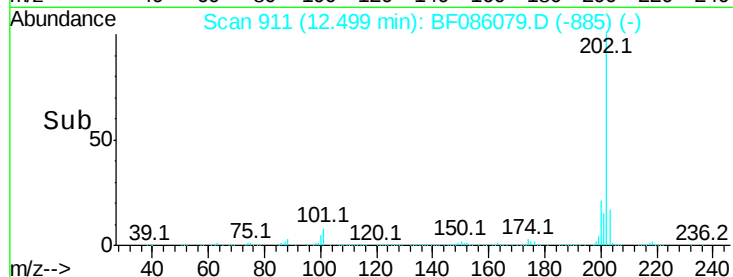
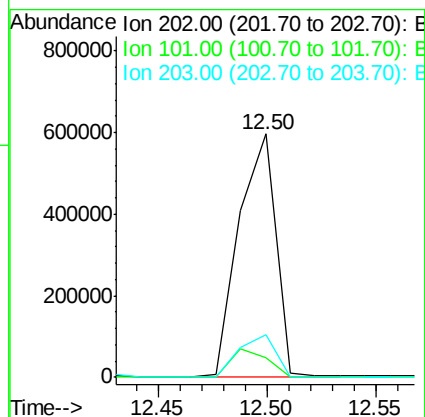
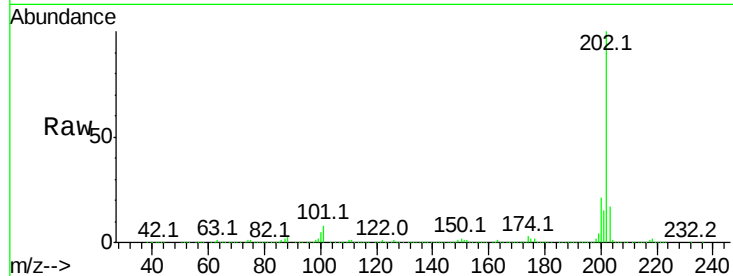
#74
Fluoranthene
Concen: 40.41 ng
RT: 12.50 min Scan# 911
Delta R.T. 0.00 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	7.9	0.0	36.6
203	17.5	0.0	38.1

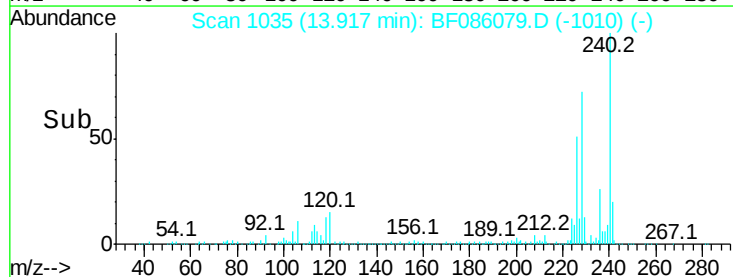
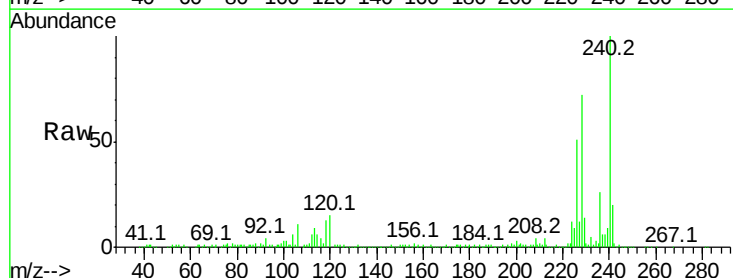
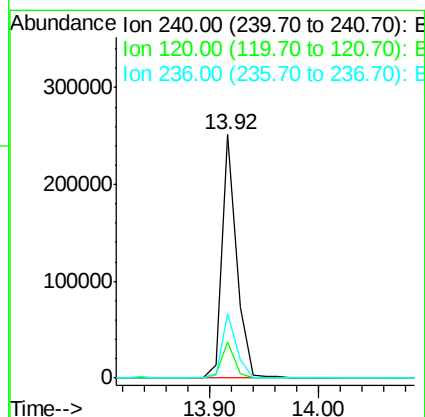
Manual Integrations
APPROVED

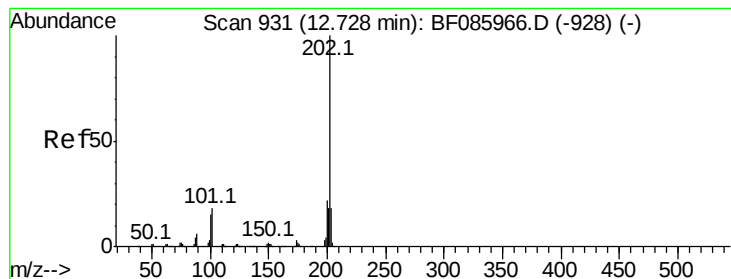
Sohil
4/5/2016 6:39:23 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.92 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	15.0	13.8	20.8
236	26.5	20.6	30.8





#77

Pvrene

Concen: 61.97 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

Instrument :

BNA_F

ClientSampleId :

CS-PH3-SOIL-32816DL

Tot Ion:202 Resp: 1038083

Ion Ratio Lower Upper

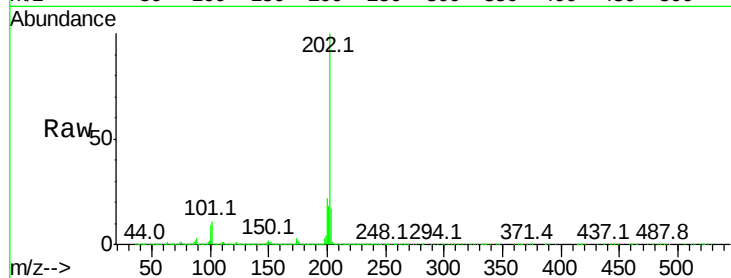
202 100

200 22.0 17.6 26.4

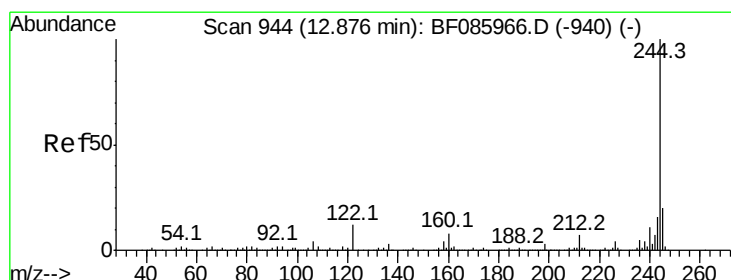
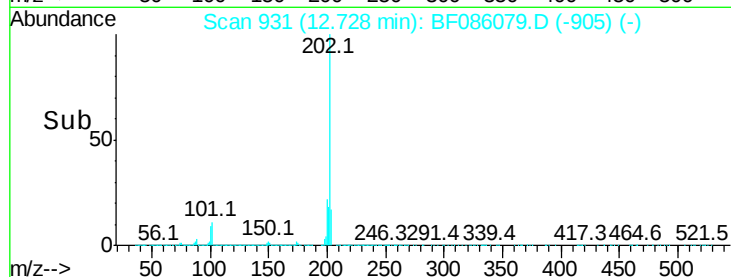
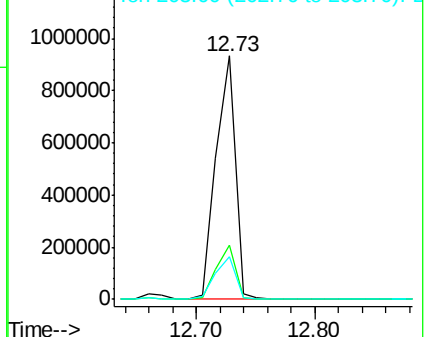
203 17.4 14.0 21.0

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:23 PM



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: 13.59 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF086079.D

Acq: 5 Apr 2016 12:02

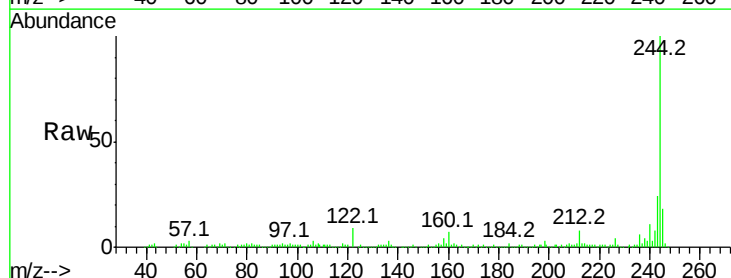
Tgt Ion:244 Resp: 137433

Ion Ratio Lower Upper

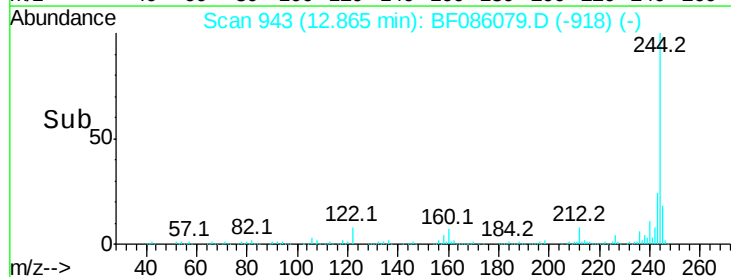
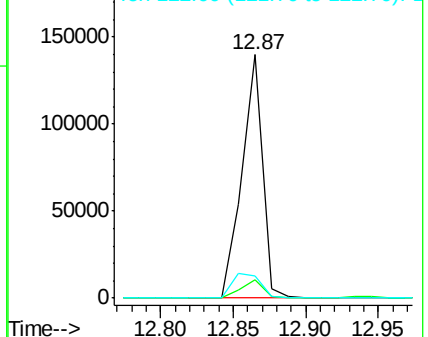
244 100

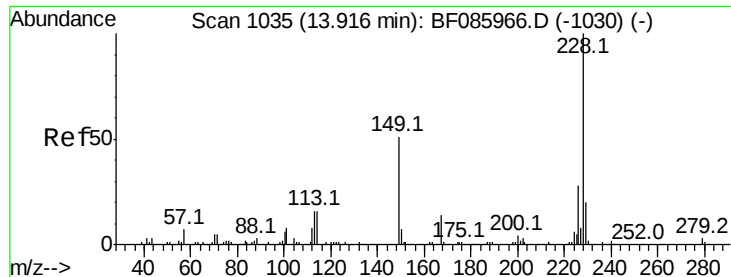
212 7.5 6.1 9.1

122 8.9 10.2 15.4#



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





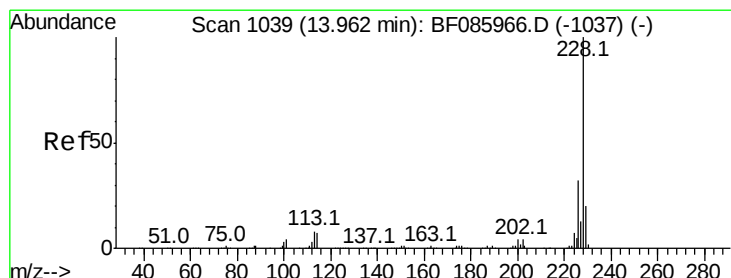
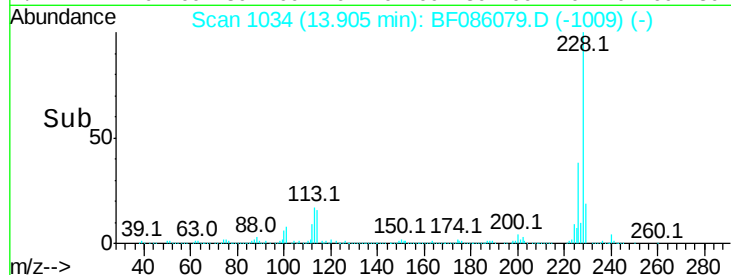
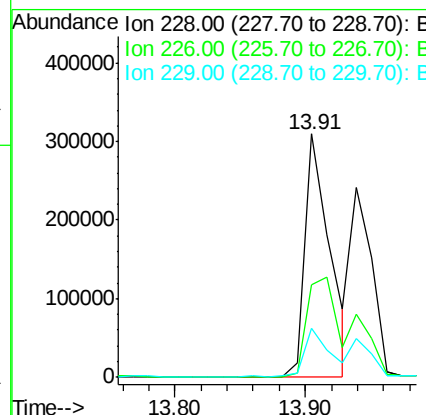
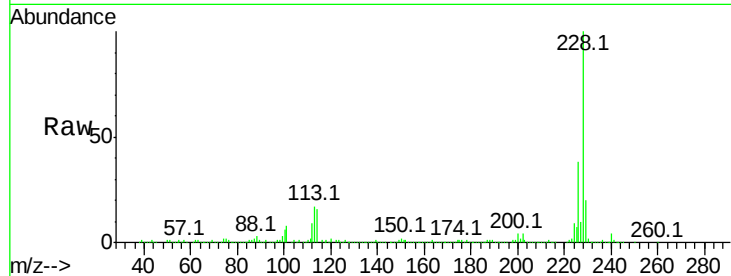
#80
Benzo(a)anthracene
Concen: 29.10 ng
RT: 13.91 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	37.8	22.1	33.1#
229	20.0	16.2	24.4

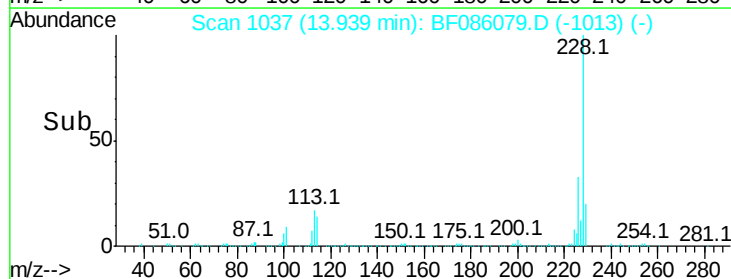
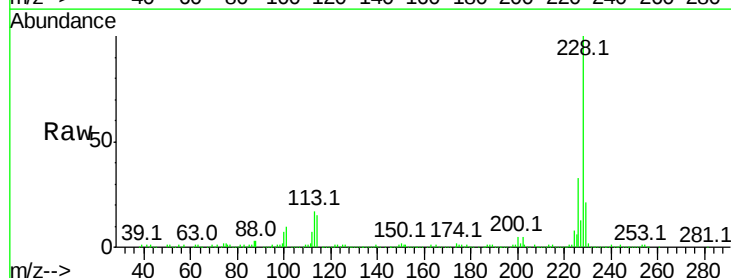
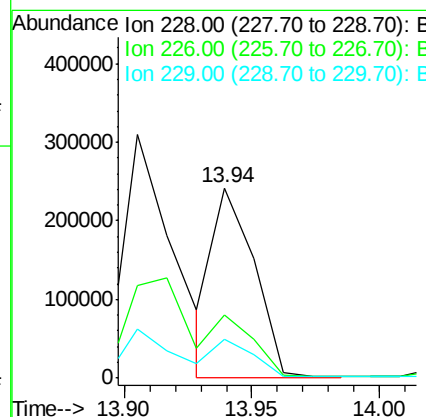
Manual Integrations
APPROVED

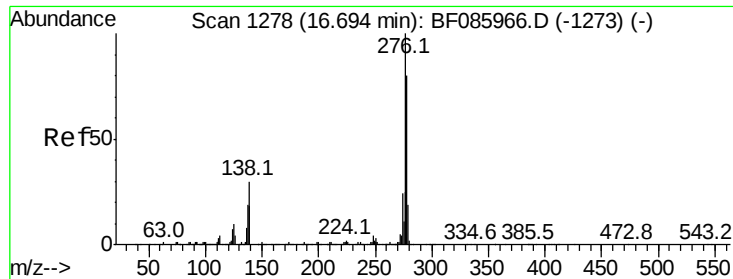
Sohil
4/5/2016 6:39:23 PM



#82
Chrysene
Concen: 20.57 ng m
RT: 13.94 min Scan# 1037
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.0	37.6
229	20.6	15.7	23.5





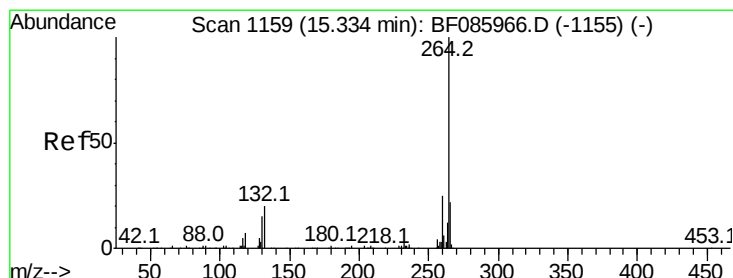
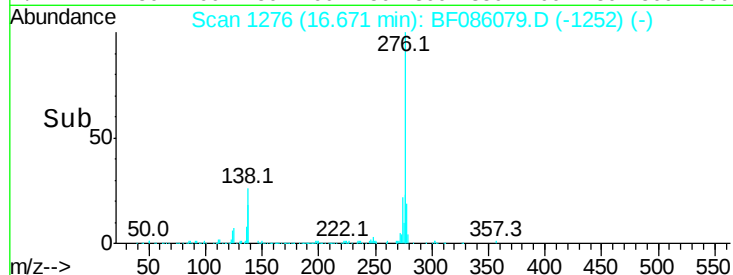
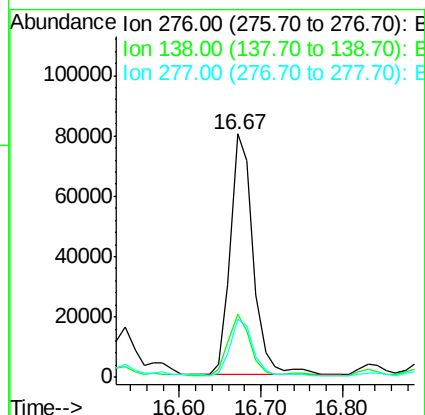
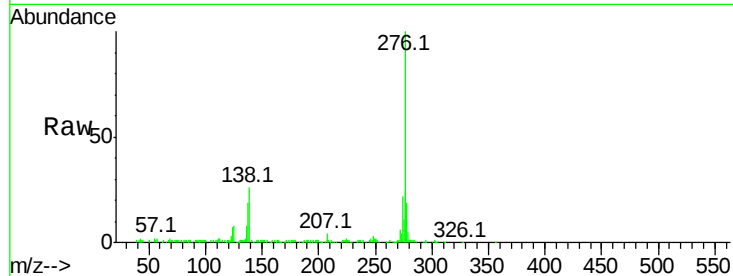
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.28 ng
RT: 16.67 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.8	24.2	36.4
277	23.9	20.0	30.0

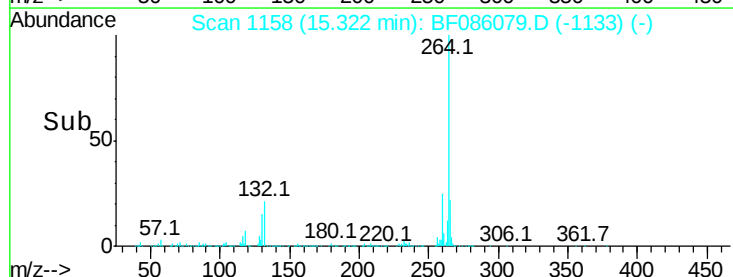
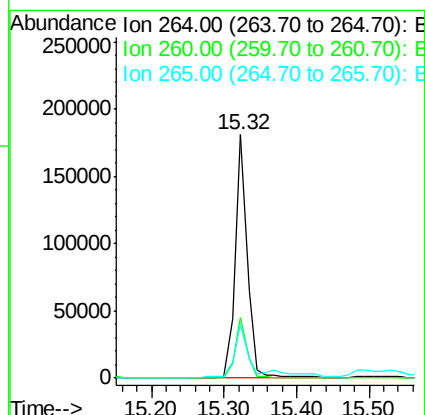
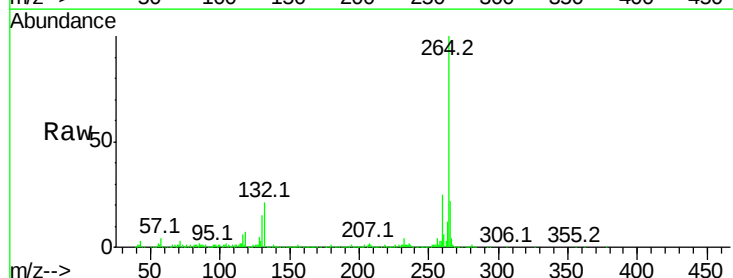
Manual Integrations
APPROVED

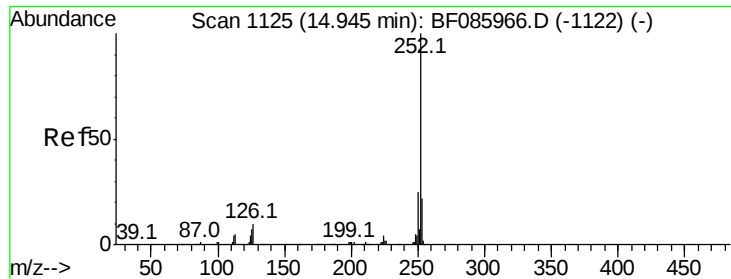
Sohil
4/5/2016 6:39:23 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 1158
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.4	29.2
265	22.2	17.2	25.8





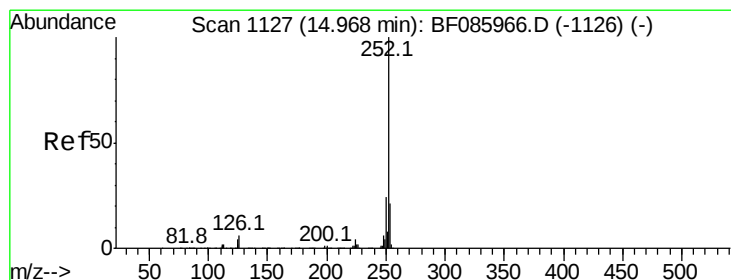
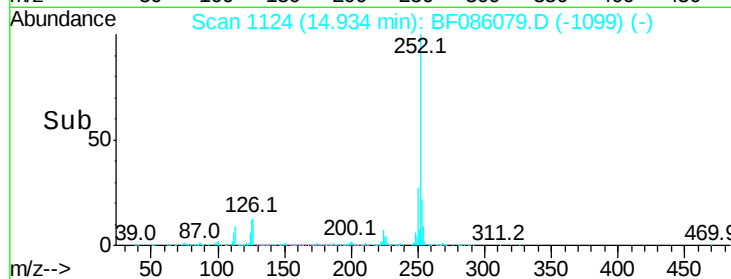
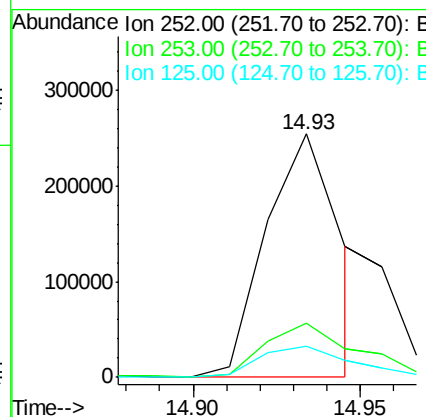
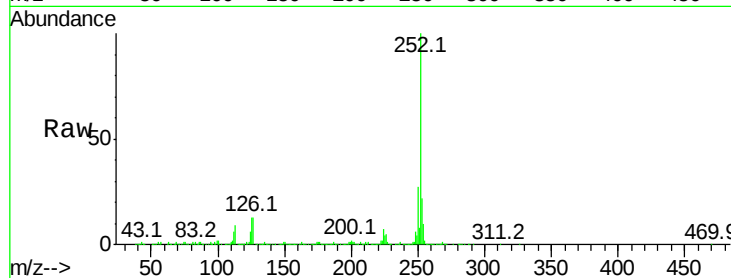
#87
Benzo(b)fluoranthene
Concen: 29.01 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	12.5	10.3	15.5

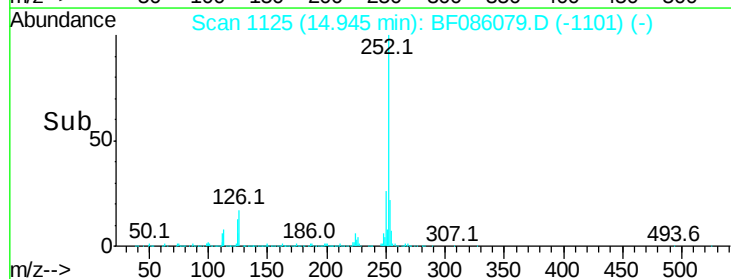
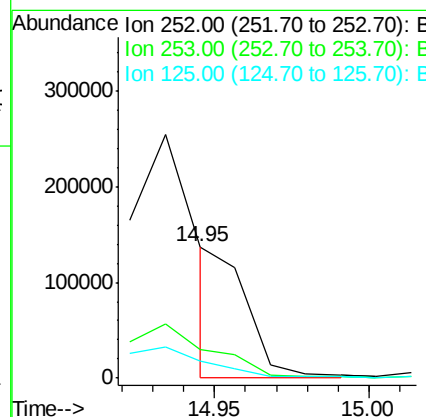
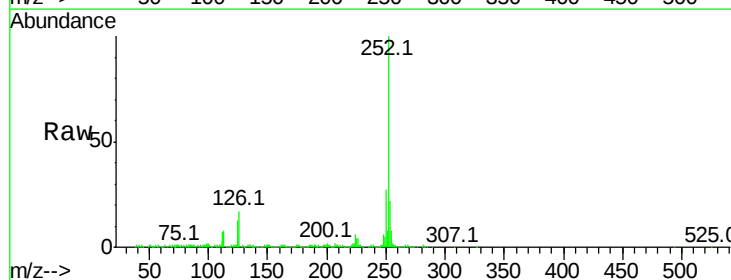
Manual Integrations
APPROVED

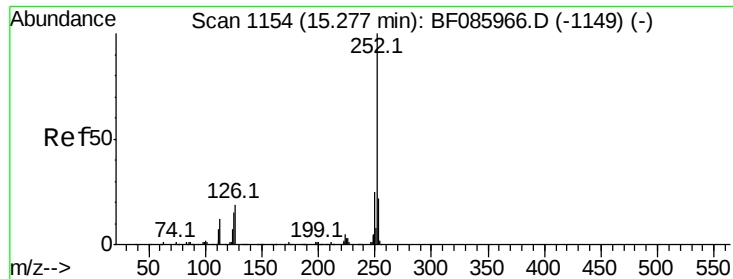
Sohil
4/5/2016 6:39:23 PM



#88
Benzo(k)fluoranthene
Concen: 7.78 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	13.5	7.7	11.5





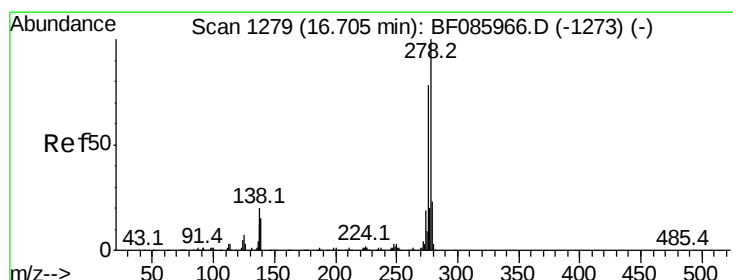
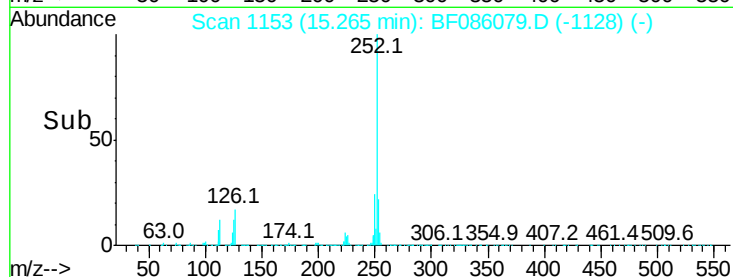
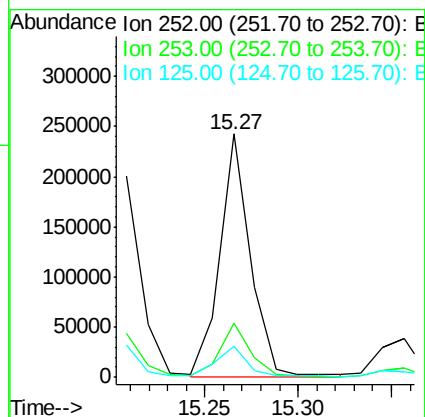
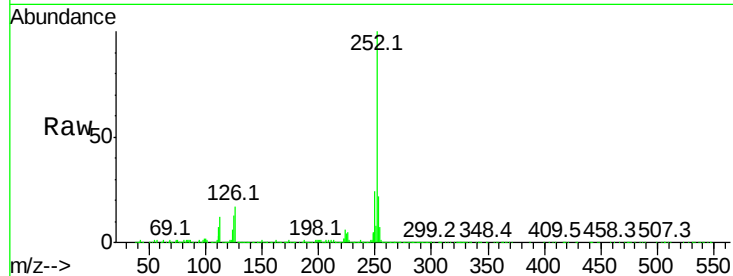
#89
Benzo(a)pyrene
Concen: 23.25 ng
RT: 15.27 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Instrument :
BNA_F
ClientSampleId :
CS-PH3-SOIL-32816DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	12.7	10.3	15.5

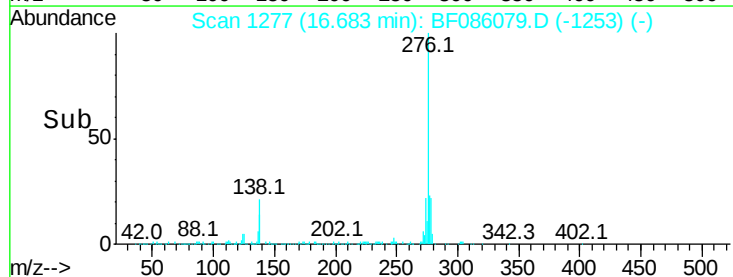
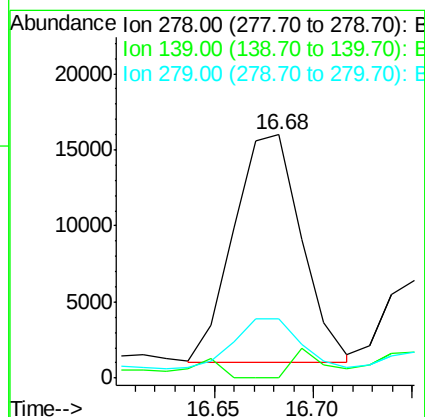
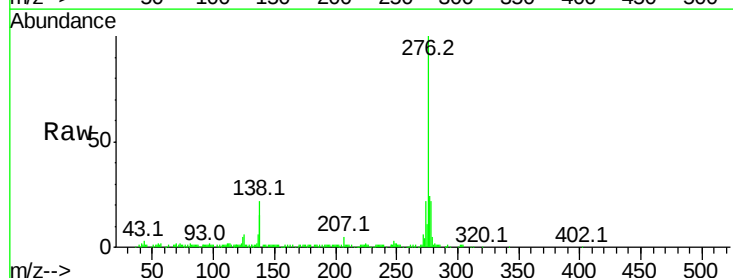
Manual Integrations
APPROVED

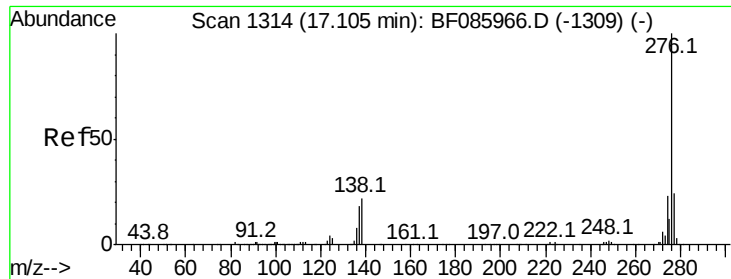
Sohil
4/5/2016 6:39:23 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.75 ng m
RT: 16.68 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF086079.D
Acq: 5 Apr 2016 12:02

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.4	21.6#
279	24.3	19.1	28.7





#91
 Benzo(a,h,i)perylene
 Concen: 17.47 ng
 RT: 17.08 min Scan# 1312
 Delta R.T. -0.02 min
 Lab File: BF086079.D
 Acq: 5 Apr 2016 12:02

Instrument :
 BNA_F
 ClientSampleId :
 CS-PH3-SOIL-32816DL

Tot Ion:	276	Resp:	161741
Ion Ratio	Lower	Upper	
276	100		
277	22.6	18.8	28.2
138	25.4	22.6	34.0

Manual Integrations
 APPROVED

Sohil
 4/5/2016 6:39:23 PM

