

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040816\
 Data File : BF086194.D
 Acq On : 9 Apr 2016 3:25
 Operator : UM/SJ
 Sample : H2099-10
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DRAIN

Manual Integrations
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Sohil
 4/11/2016 5:45:28 PM

Quant Time: Apr 11 16:41:45 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	6.74	152	102826	20.00	ng	-0.03
21) Naphthalene-d8	8.03	136	158426	20.00	ng	-0.03
38) Acenaphthene-d10	9.80	164	114383	20.00	ng	-0.01
63) Phenanthrene-d10	11.28	188	200741	20.00	ng	-0.02
75) Chrysene-d12	13.89	240	237793	20.00	ng	-0.03
86) Perylene-d12	15.29	264	187467	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	679898	113.02	ng	-0.05
7) Phenol-d6	6.38	99	784064	102.61	ng	-0.03
23) Nitrobenzene-d5	7.31	82	490229	182.48	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	134600	125.37	ng	-0.01
44) 2-Fluorobiphenyl	9.12	172	559921	81.39	ng	-0.02
78) Terphenyl-d14	12.84	244	523681	51.77	ng	-0.03
Target Compounds						
31) Naphthalene	8.02	128	131391m	16.49	ng	Qvalue
37) 2-Methylnaphthalene	8.76	142	606434	116.49	ng	# 96
49) Dimethylphthalate	9.52	163	66202	7.81	ng	# 68
70) Phenanthrene	11.30	178	410140	37.45	ng	# 94
74) Fluoranthene	12.48	202	413440	36.30	ng	96
77) Pyrene	12.70	202	479161	28.59	ng	99
80) Benzo(a)anthracene	13.88	228	266040	18.98	ng	94
82) Chrysene	13.92	228	183979	13.63	ng	97
85) Indeno(1,2,3-cd)pyrene	16.63	276	76992	7.03	ng	92
87) Benzo(b)fluoranthene	14.90	252	215330m	18.26	ng	
88) Benzo(k)fluoranthene	14.92	252	69192m	6.63	ng	
89) Benzo(a)pyrene	15.23	252	149155	14.27	ng	# 96
90) Dibenzo(a,h)anthracene	16.63	278	21505	2.56	ng	# 75
91) Benzo(a,h,i)perylene	17.03	276	75928	9.33	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.03 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

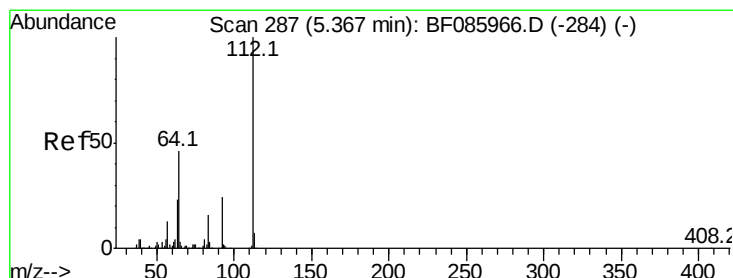
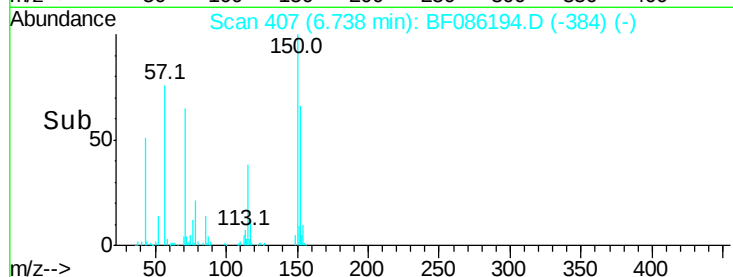
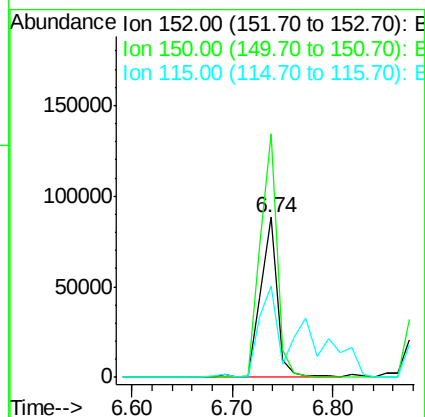
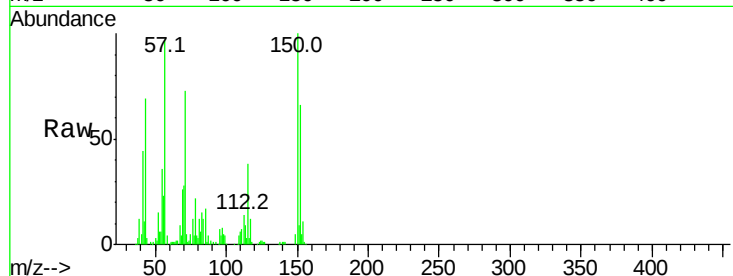
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DRAIN

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.8	124.2	186.2
115	57.3	47.0	70.6

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#5

2-Fluorophenol

Concen: 113.02 ng

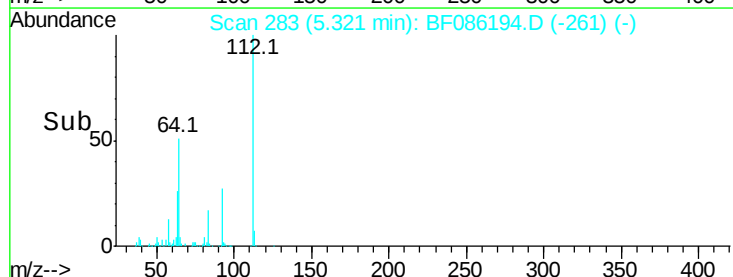
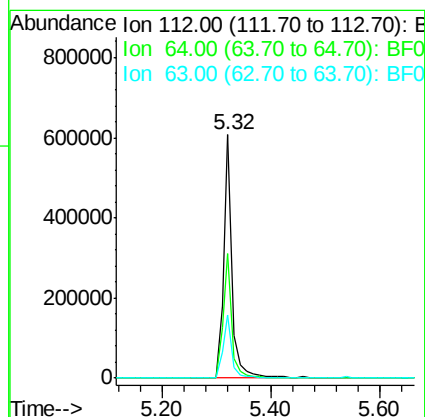
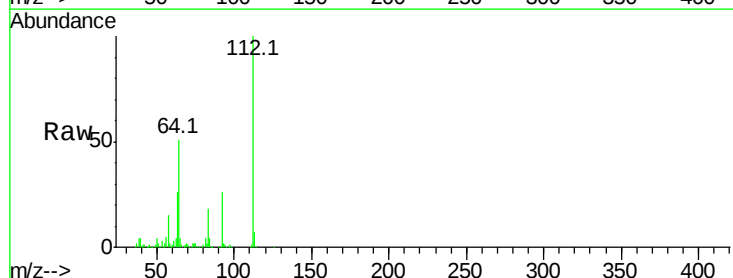
RT: 5.32 min Scan# 283

Delta R.T. -0.05 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.9	59.9
63	25.8	20.2	30.2





#7

Phenol-d6

Concen: 102.61 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.03 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

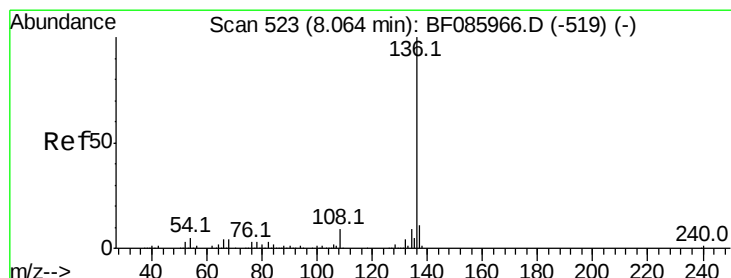
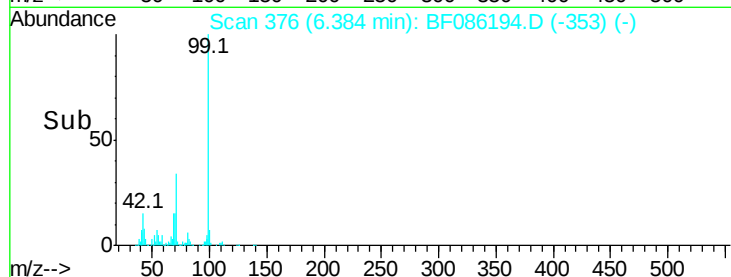
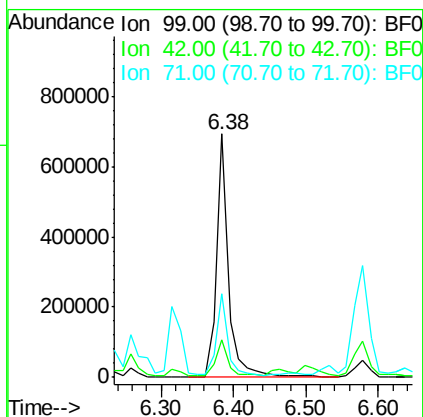
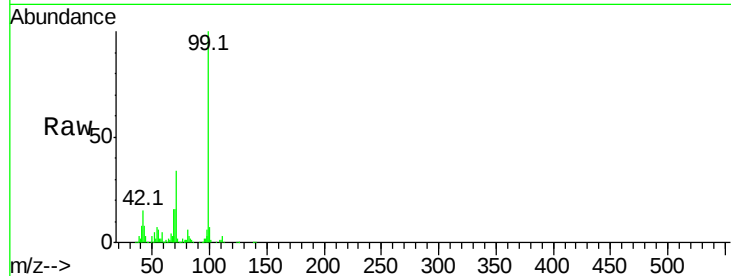
ClientSampleId :

DRAIN

Tot Ion:	99	Resp:	784064
Ion Ratio	Lower	Upper	
99	100		
42	15.3	11.1	16.7
71	34.1	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

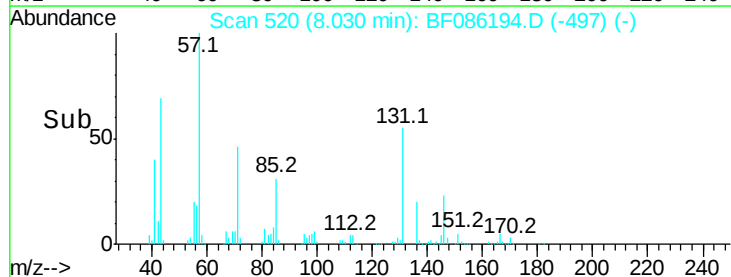
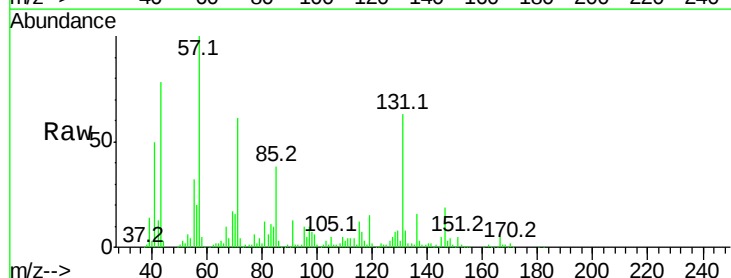
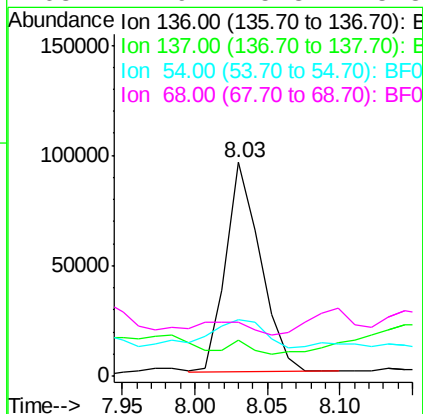
RT: 8.03 min Scan# 520

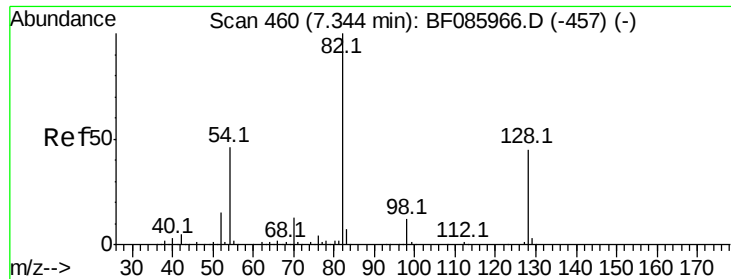
Delta R.T. -0.03 min

Lab File: BF086194.D

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Tgt Ion:	136	Resp:	158426
Ion Ratio	Lower	Upper	
136	100		
137	17.0	9.1	13.7#
54	26.2	7.4	11.0#
68	24.9	5.8	8.8#





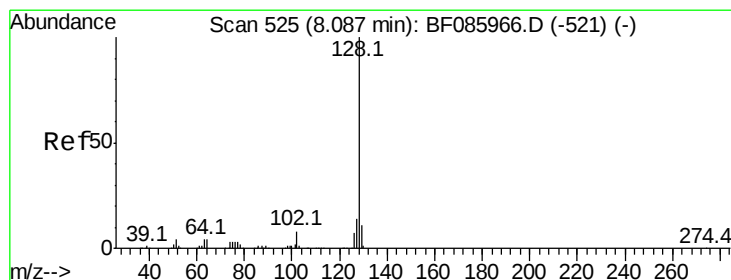
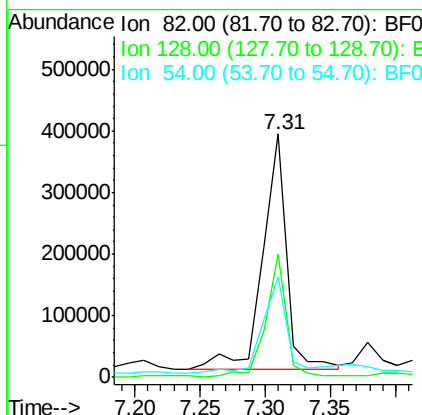
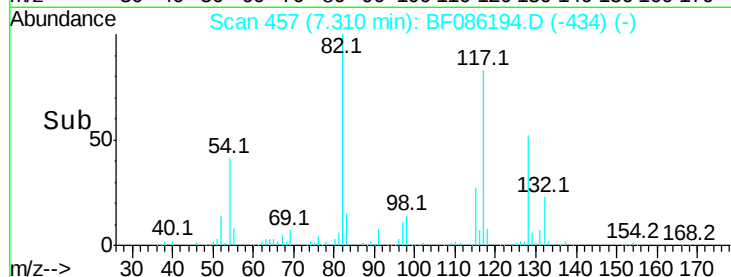
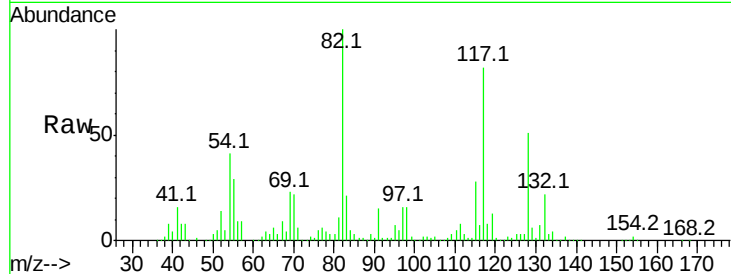
#23
 Nitrobenzene-d5
 Concen: 182.48 ng
 RT: 7.31 min Scan# 457
 Delta R.T. -0.03 min
 Lab File: BF086194.D
 Acq: 9 Apr 2016 3:25

Instrument :
 BNA_F
 ClientSampled :
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Tot Ion:	82	Resp:	490229
Ion Ratio	Lower	Upper	
82	100		
128	50.8	41.8	62.8
54	41.3	33.4	50.0

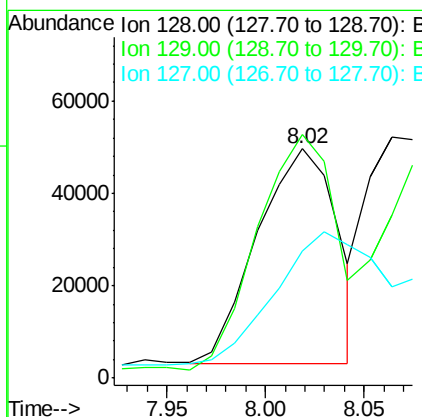
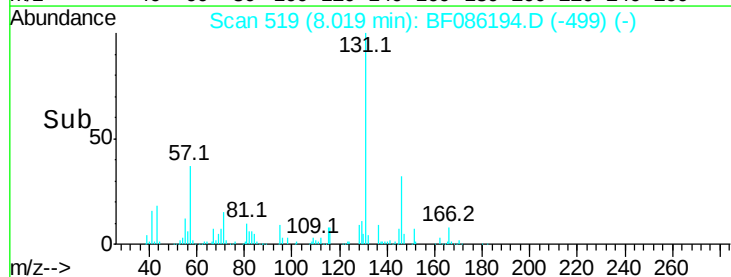
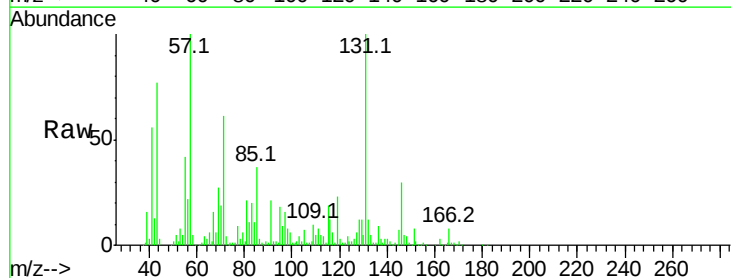
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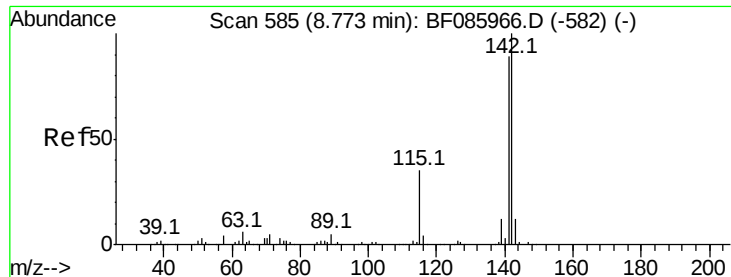
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#31
 Naphthalene
 Concen: 16.49 ng m
 RT: 8.02 min Scan# 519
 Delta R.T. -0.07 min
 Lab File: BF086194.D
 Acq: 9 Apr 2016 3:25

Tgt Ion:	128	Resp:	131391
Ion Ratio	Lower	Upper	
128	100		
129	106.1	9.4	14.0#
127	55.3	11.0	16.6#





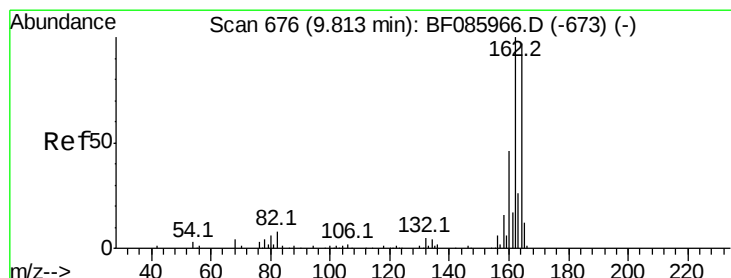
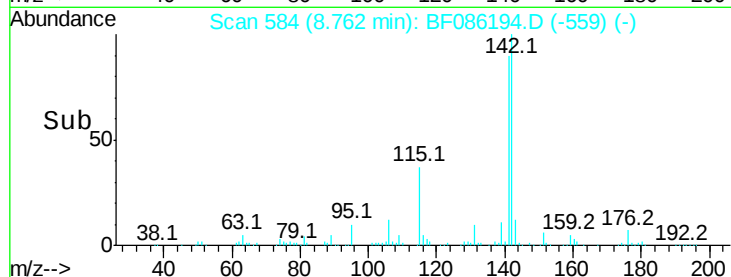
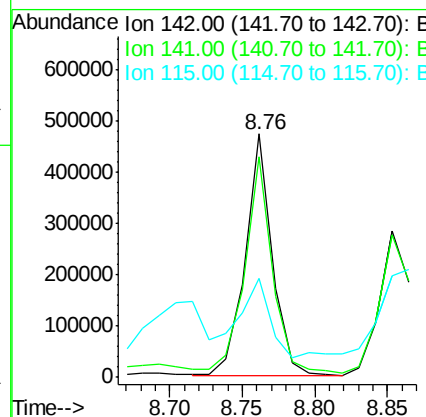
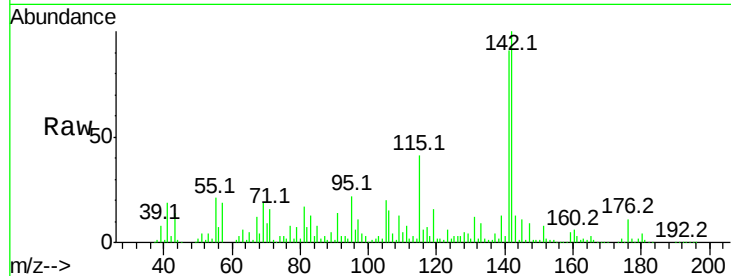
#37
2-Methylnaphthalene
Concen: 116.49 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
142	100	606434		
141	90.5	71.6	107.4	
115	40.9	26.8	40.2	

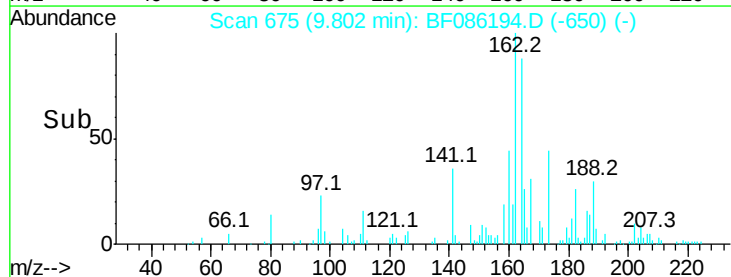
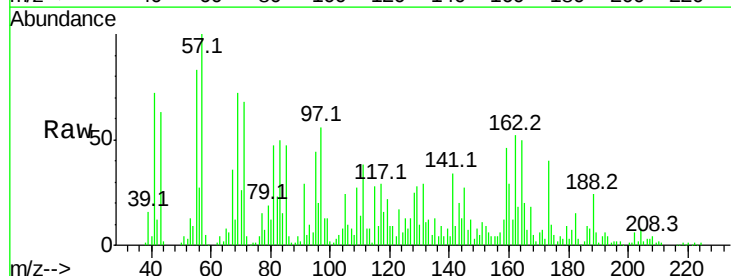
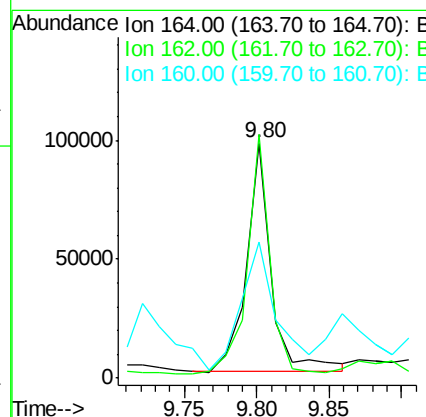
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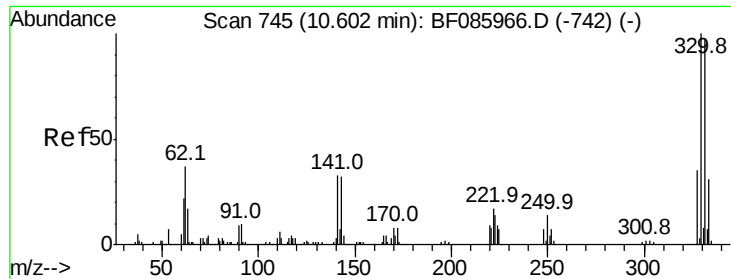
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	114383		
162	103.6	82.1	123.1	
160	58.1	37.4	56.2	





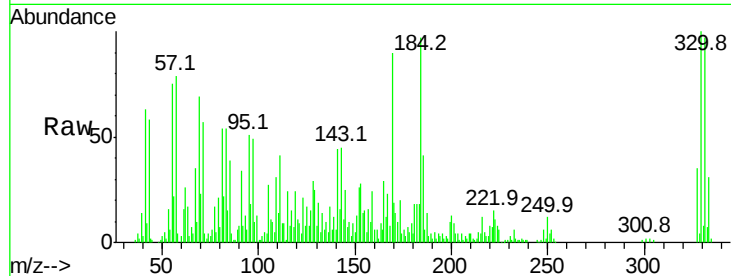
#41
 2,4,6-Tribromophenol
 Concen: 125.37 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF086194.D
 Acq: 9 Apr 2016 3:25

Instrument :
 BNA_F
 ClientSampleId :
 DRAIN

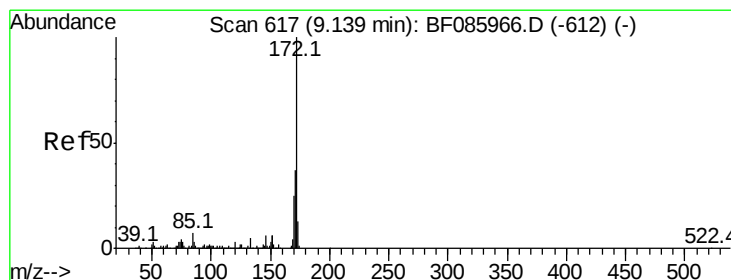
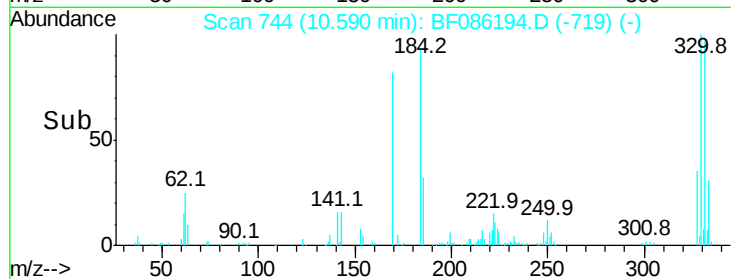
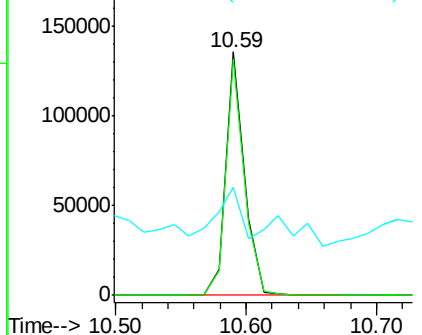
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.6	78.2	117.2	
141	28.2	31.5	47.3	

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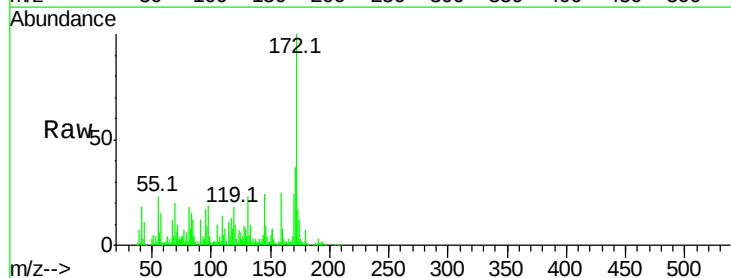


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

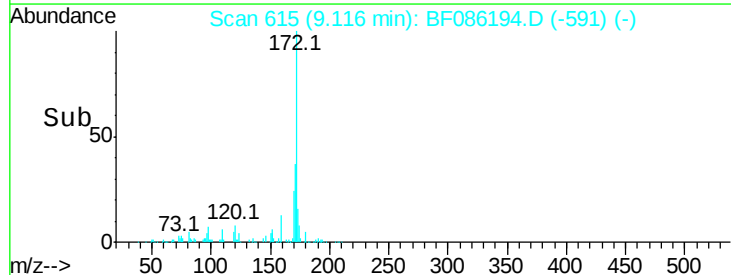
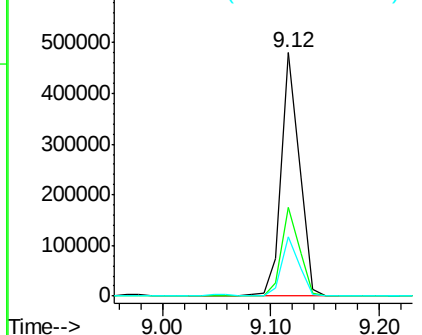


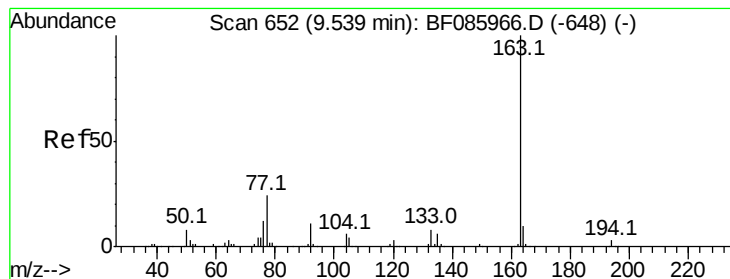
#44
 2-Fluorobiphenyl
 Concen: 81.39 ng
 RT: 9.12 min Scan# 615
 Delta R.T. -0.02 min
 Lab File: BF086194.D
 Acq: 9 Apr 2016 3:25

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.6	29.4	44.2	
170	24.2	19.8	29.6	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 7.81 ng

RT: 9.52 min Scan# 650

Delta R.T. -0.02 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

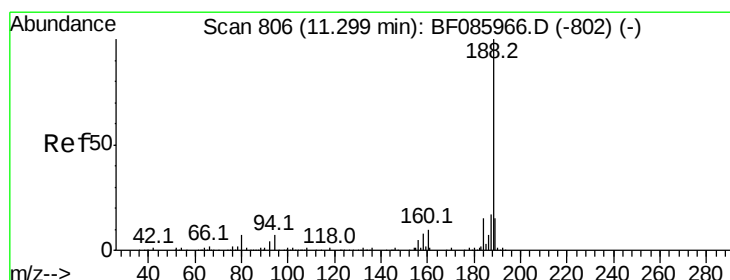
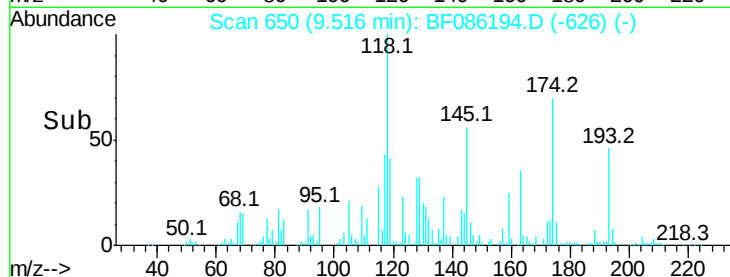
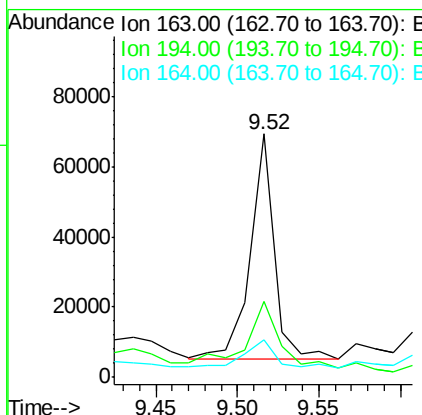
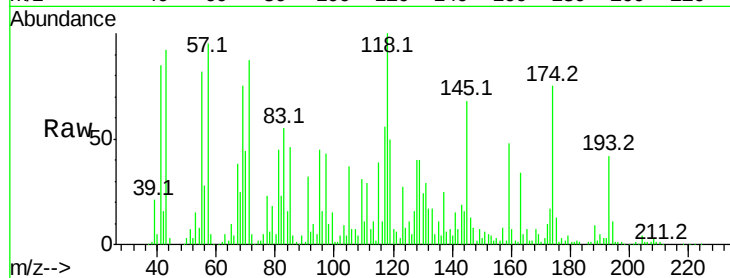
ClientSampled :

DRAIN

Tot Ion:	163	Resp:	66202
Ion Ratio	Lower	Upper	
163	100		
194	31.3	2.9	4.3#
164	15.6	8.3	12.5#

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#63

Phenanthrene-d10

Concen: 20.00 ng

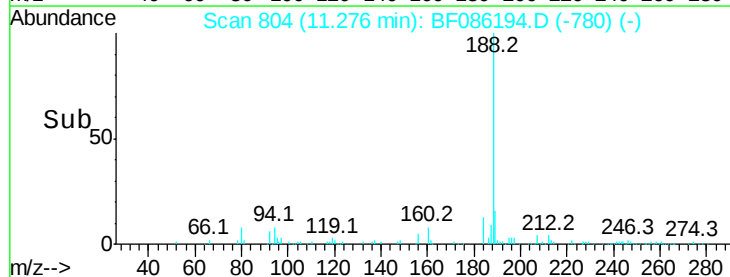
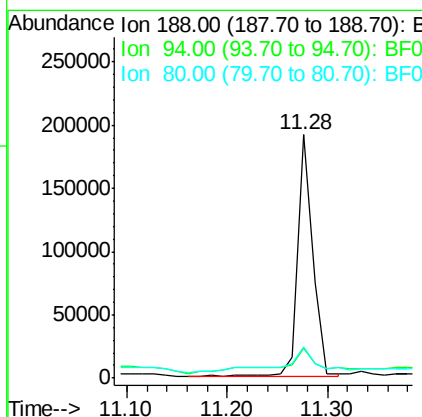
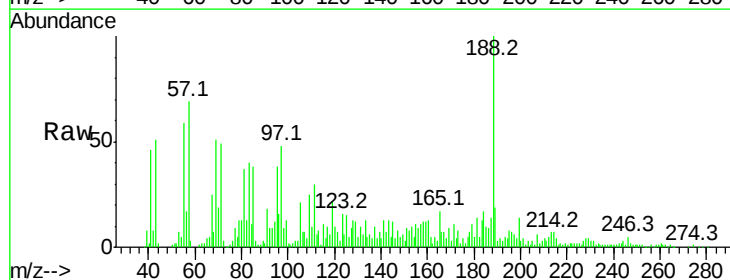
RT: 11.28 min Scan# 804

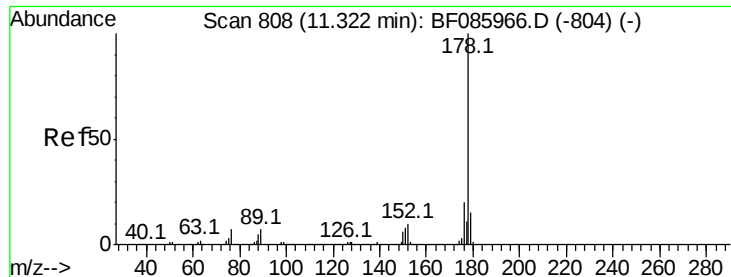
Delta R.T. -0.02 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Tgt Ion:	188	Resp:	200741
Ion Ratio	Lower	Upper	
188	100		
94	12.4	5.4	8.0#
80	12.6	5.5	8.3#





#70

Phenanthrene

Concen: 37.45 ng

RT: 11.30 min Scan# 806

Delta R.T. -0.02 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

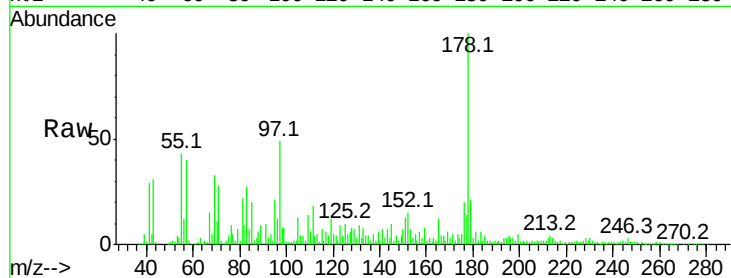
ClientSampleId :

DRAIN

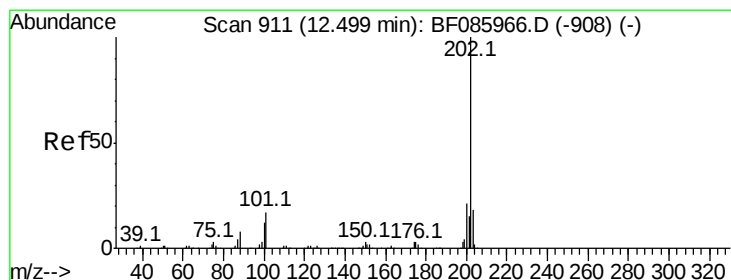
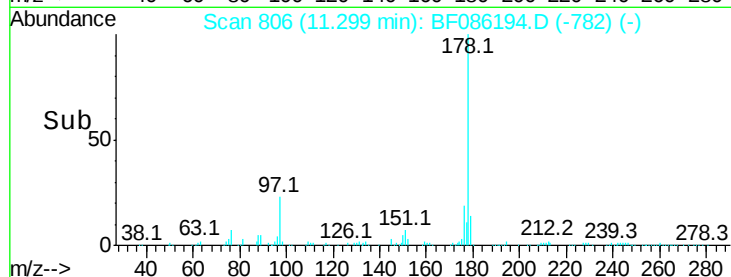
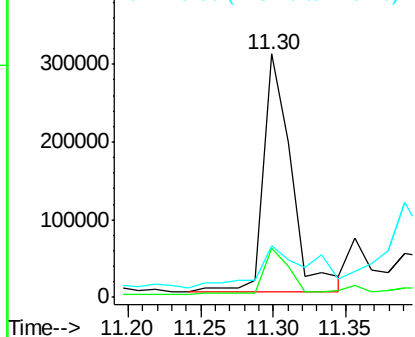
Tot Ion:	178	Resp:	410140
Ion Ratio	Lower	Upper	
178	100		
176	20.2	16.3	24.5
179	21.0	12.6	18.8#

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



#74

Fluoranthene

Concen: 36.30 ng

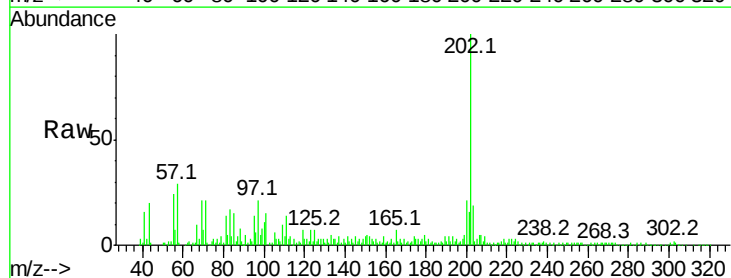
RT: 12.48 min Scan# 909

Delta R.T. -0.02 min

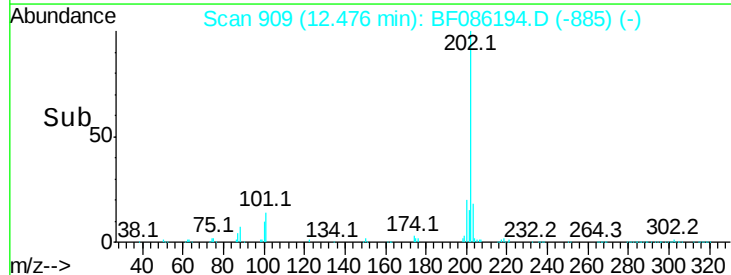
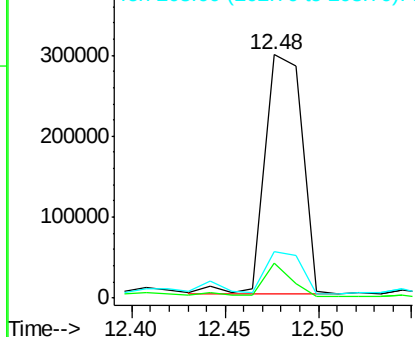
Lab File: BF086194.D

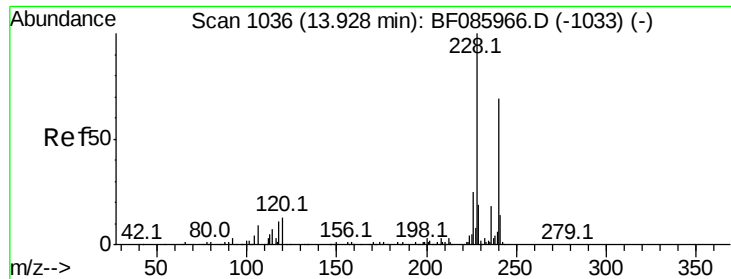
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Tgt Ion:	202	Resp:	413440
Ion Ratio	Lower	Upper	
202	100		
101	14.6	0.0	36.6
203	19.2	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

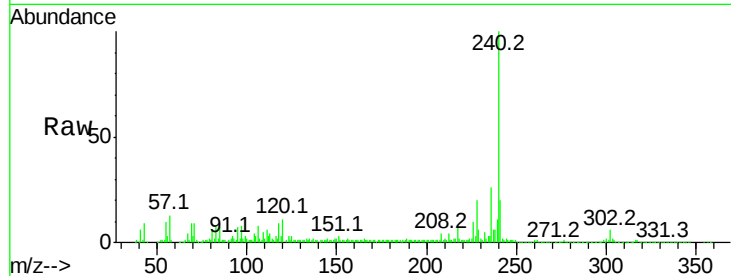
ClientSampleId :

DRAIN

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.3	13.8	20.8#
236	25.8	20.6	30.8

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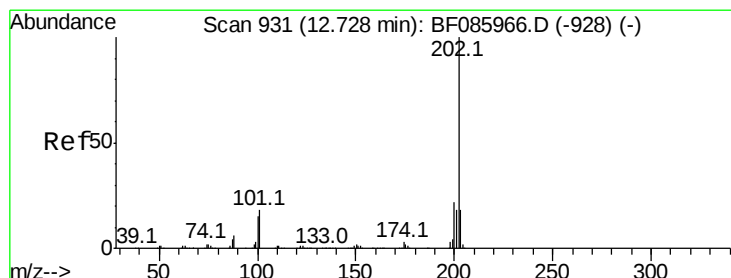
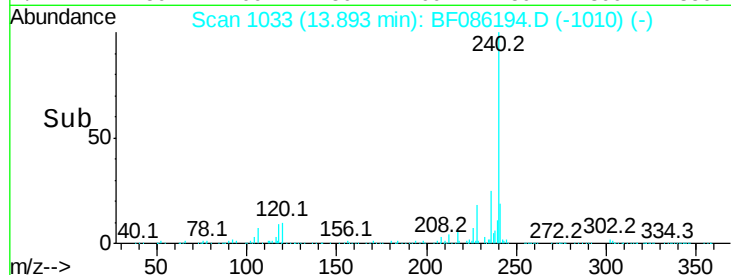
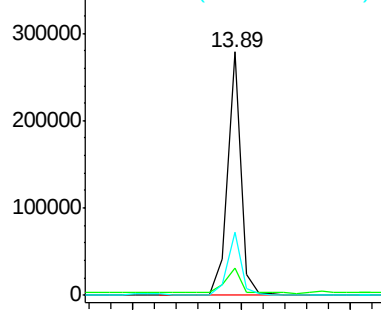
Sohil
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 28.59 ng

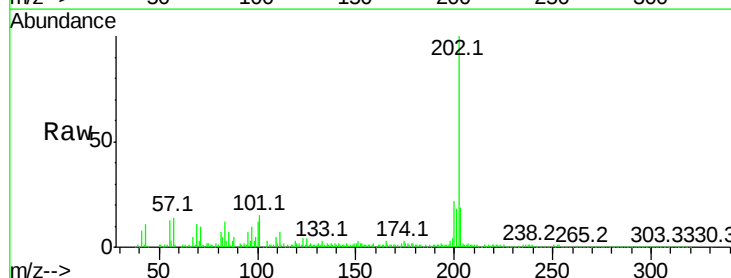
RT: 12.70 min Scan# 929

Delta R.T. -0.02 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

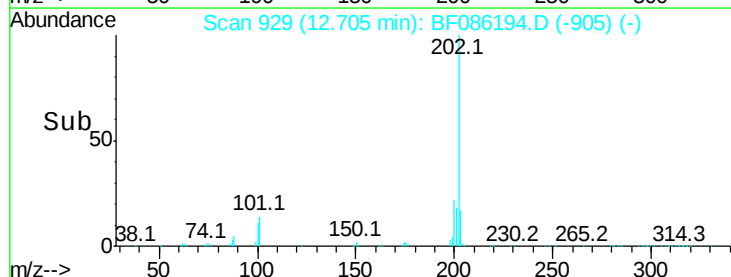
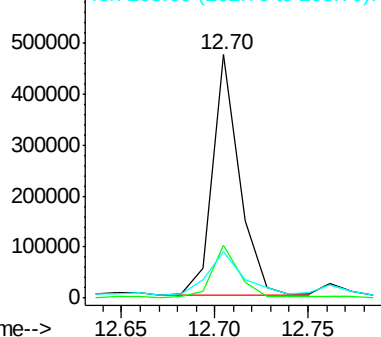
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.6	26.4
203	18.9	14.0	21.0

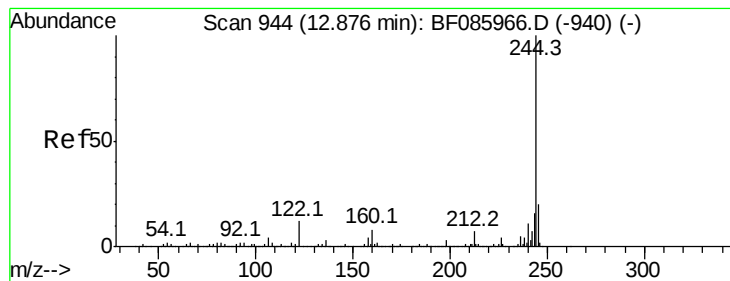


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 51.77 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

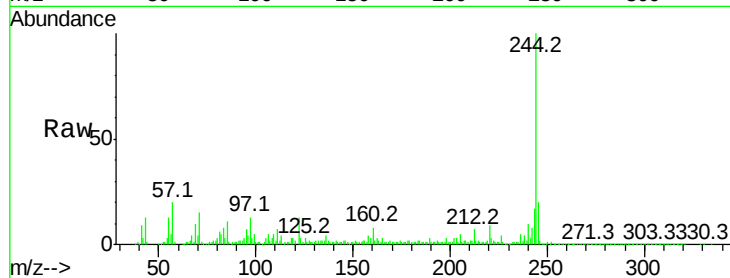
ClientSampleId :

DRAIN

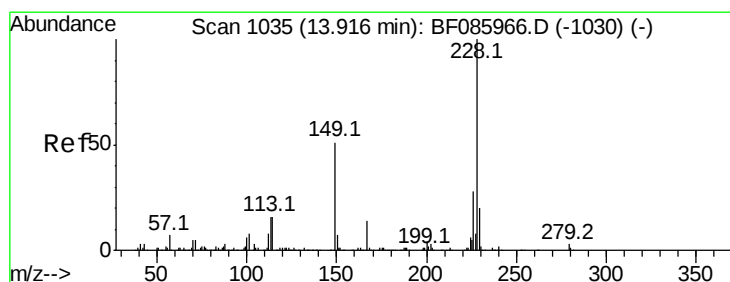
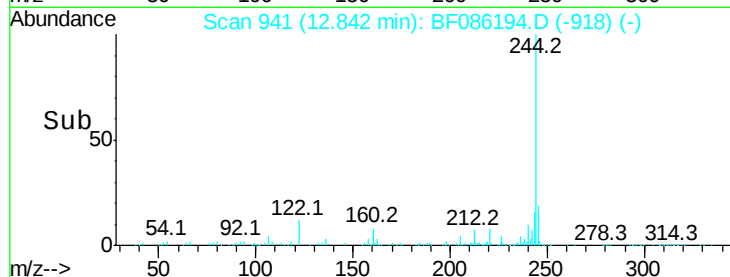
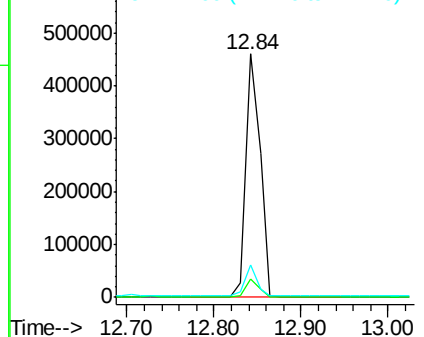
Tot Ion:	244	Resp:	523681
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.1	9.1
122	13.3	10.2	15.4

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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: 18.98 ng

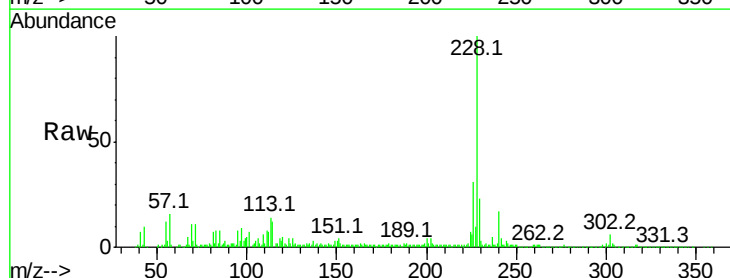
RT: 13.88 min Scan# 1032

Delta R.T. -0.03 min

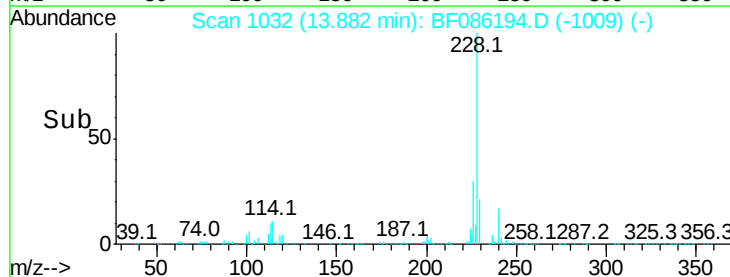
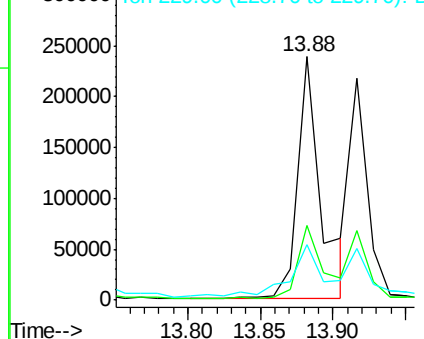
Lab File: BF086194.D

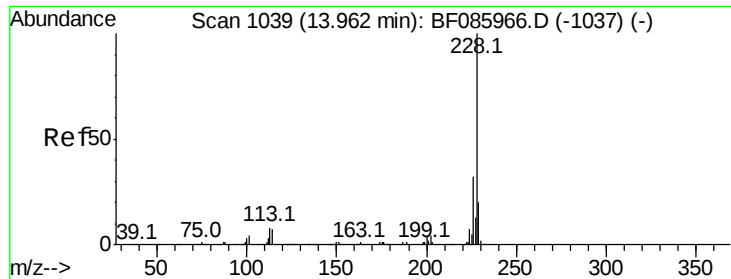
Acq: 9 Apr 2016 3:25

Tgt Ion:	228	Resp:	266040
Ion Ratio	Lower	Upper	
228	100		
226	30.9	22.1	33.1
229	22.6	16.2	24.4



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





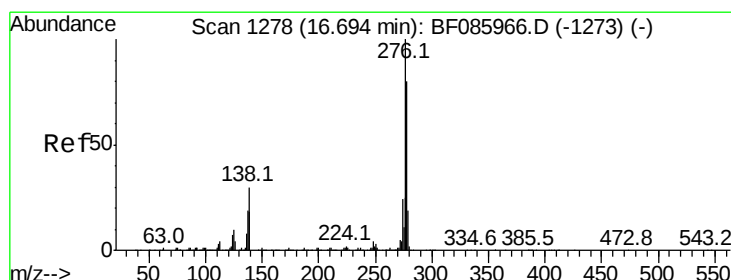
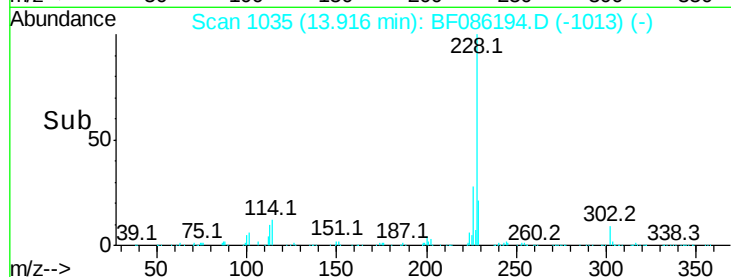
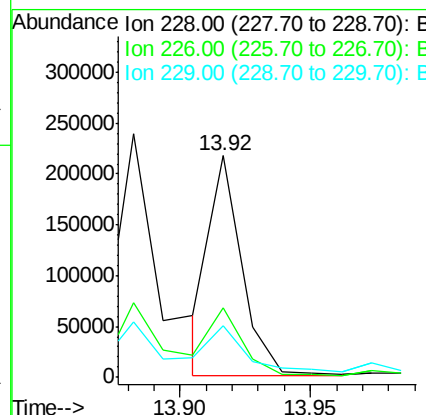
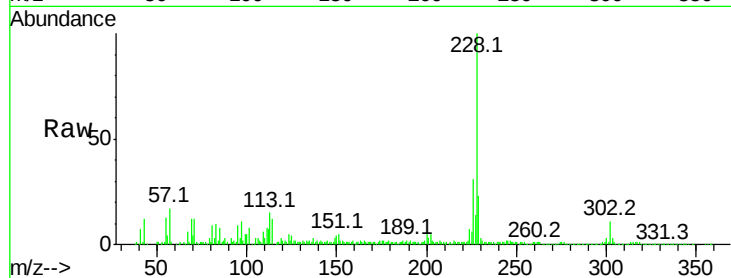
#82
Chrysene
Concen: 13.63 ng
RT: 13.92 min Scan# 1035
Delta R.T. -0.05 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Instrument :
BNA_F
ClientSampleId :
DRAIN

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	23.2	15.7	23.5

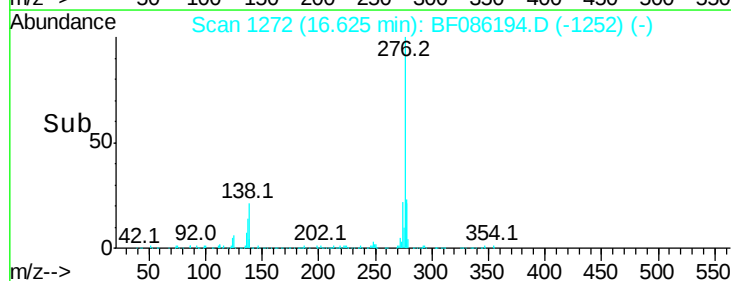
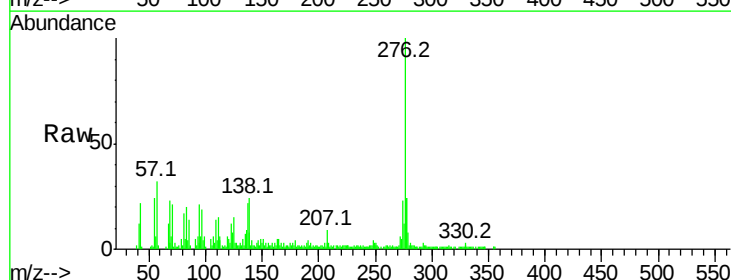
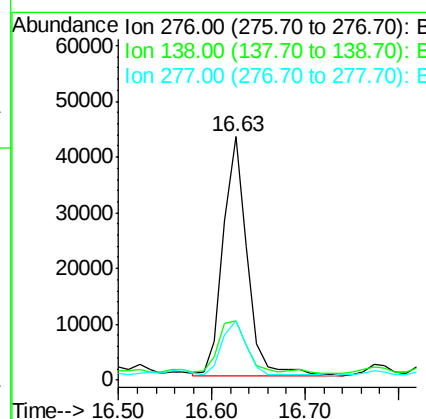
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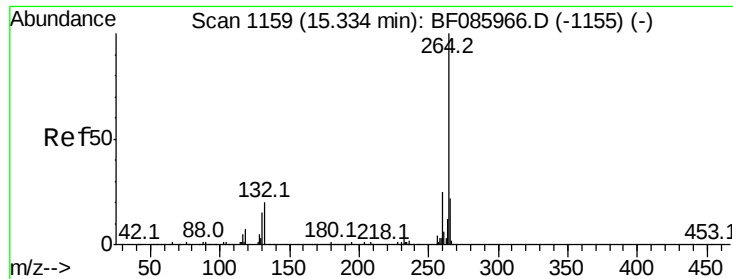
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#85
Indeno(1,2,3-cd)pyrene
Concen: 7.03 ng
RT: 16.63 min Scan# 1272
Delta R.T. -0.07 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.3	24.2	36.4
277	23.1	20.0	30.0





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1155

Delta R.T. -0.05 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Instrument :

BNA_F

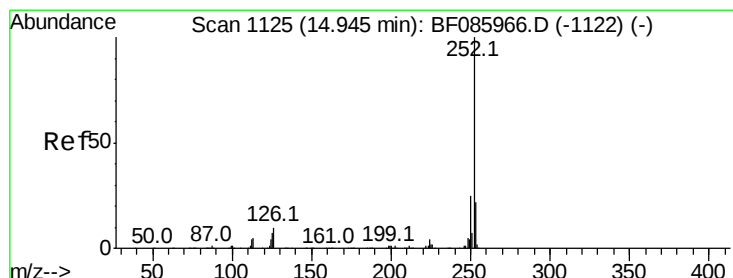
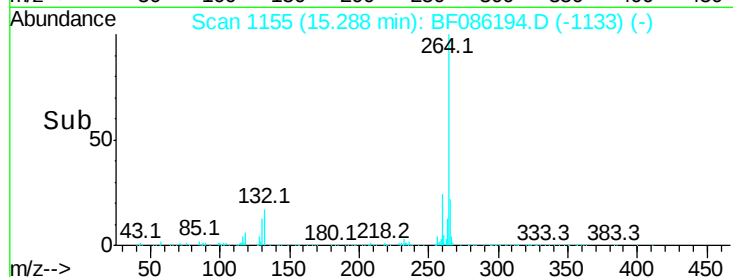
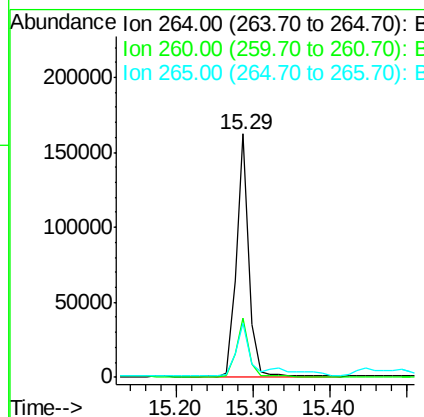
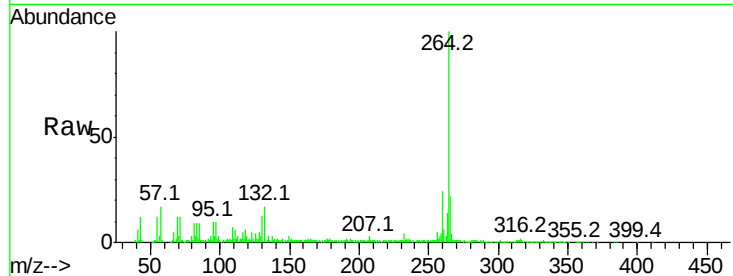
ClientSampleId :

DRAIN

Tot Ion:	264	Resp:	187467
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.4	29.2
265	22.2	17.2	25.8

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 18.26 ng m

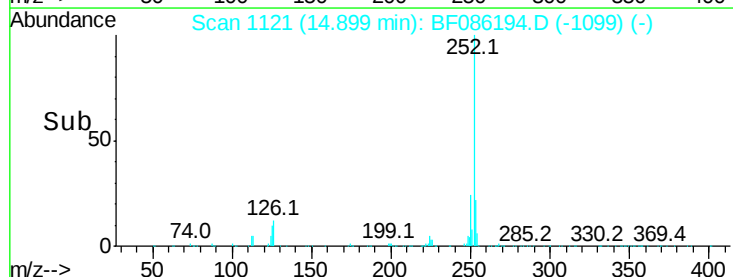
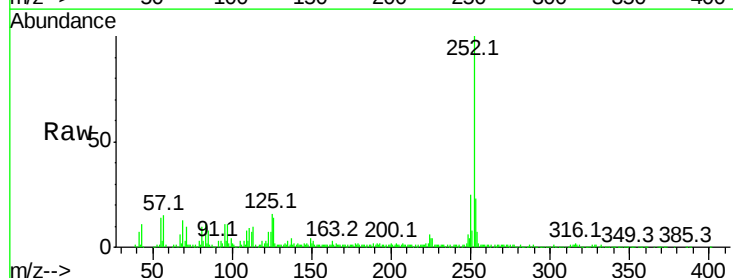
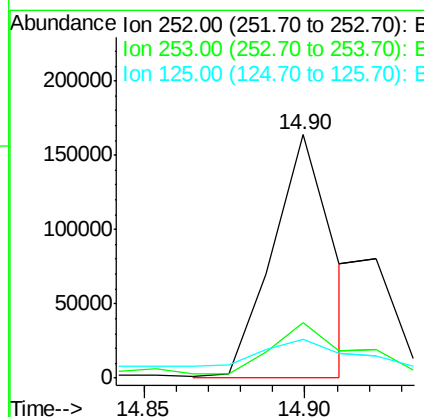
RT: 14.90 min Scan# 1121

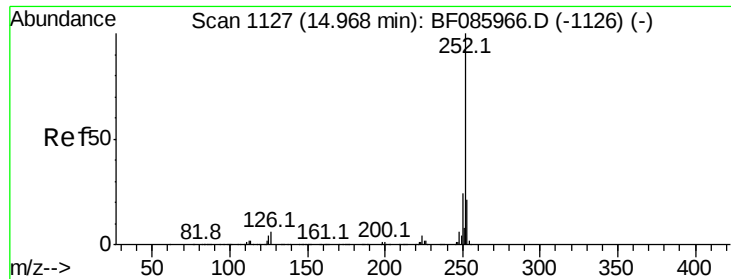
Delta R.T. -0.05 min

Lab File: BF086194.D

Acq: 9 Apr 2016 3:25

Tgt Ion:	252	Resp:	215330
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.6	26.4
125	15.9	10.3	15.5#





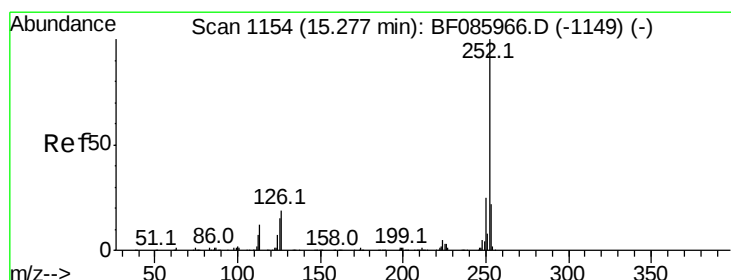
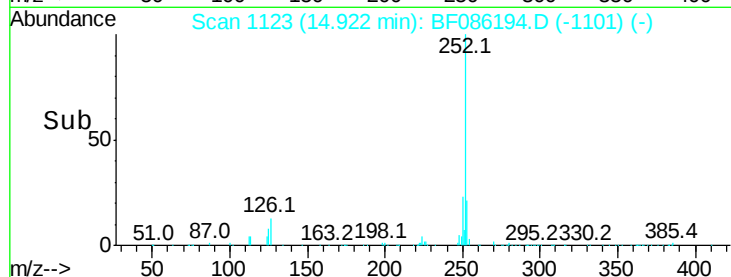
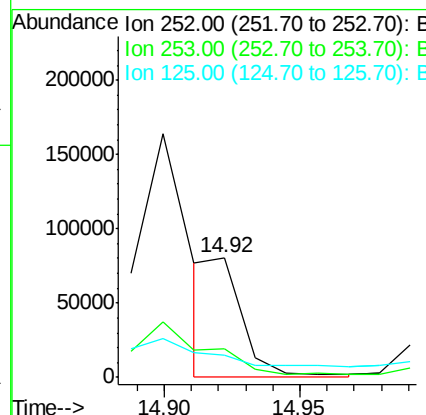
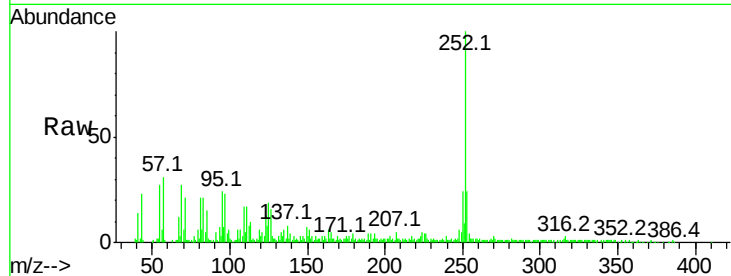
#88
Benzo(k)fluoranthene
Concen: 6.63 ng m
RT: 14.92 min Scan# 1123
Delta R.T. -0.05 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Instrument :
BNA_F
ClientSampled :
DRAIN

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	18.9	7.7	11.5

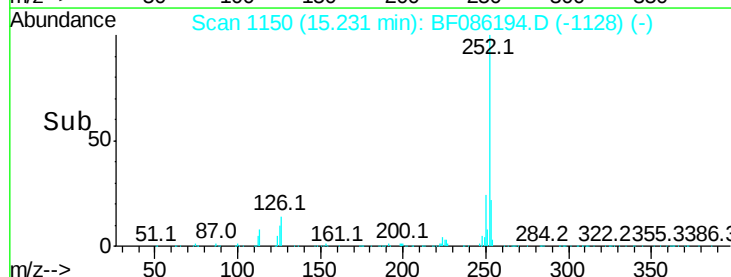
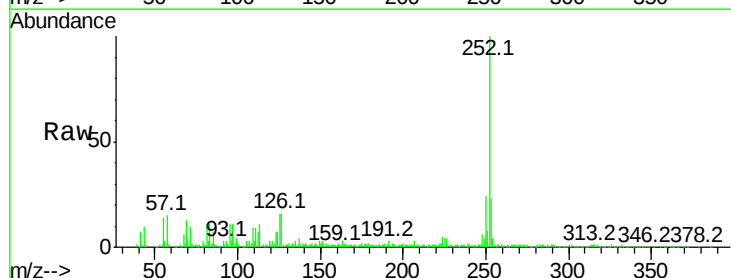
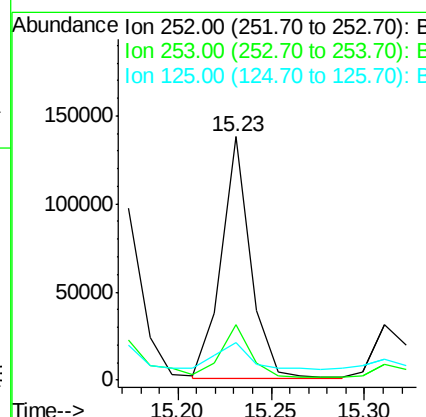
Manual Integrations
APPROVED

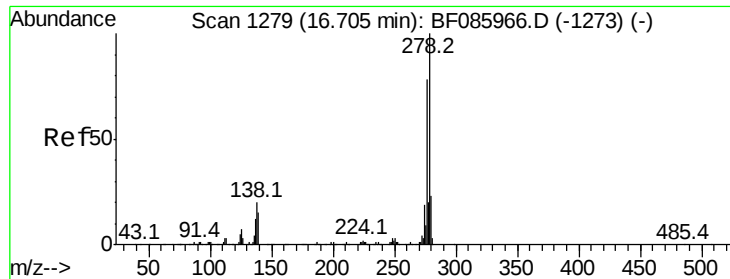
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4/11/2016 5:45:28 PM



#89
Benzo(a)pyrene
Concen: 14.27 ng
RT: 15.23 min Scan# 1150
Delta R.T. -0.05 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.0
125	15.6	10.3	15.5





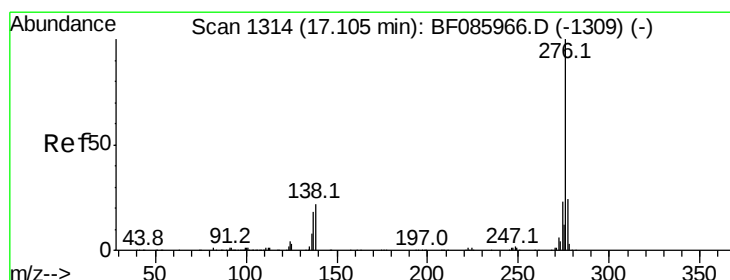
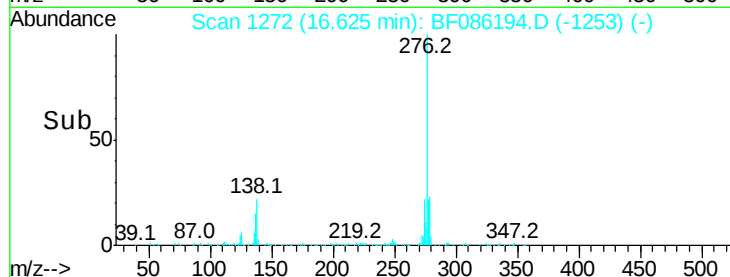
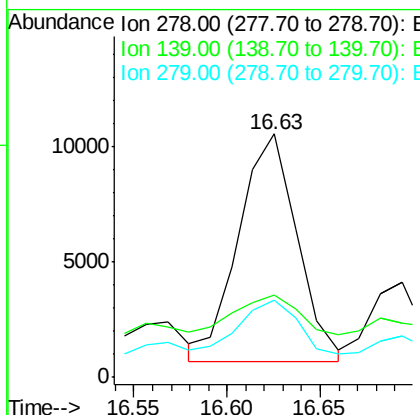
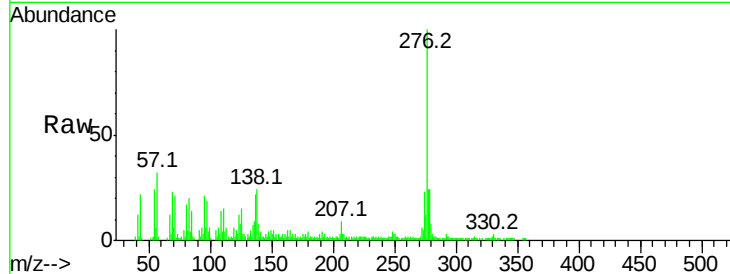
#90
Dibenzo(a,h)anthracene
Concen: 2.56 ng
RT: 16.63 min Scan# 1272
Delta R.T. -0.08 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Instrument :
BNA_F
ClientSampleId :
DRAIN

Tot Ion	Ratio	Lower	Upper
278	100		
139	34.0	14.4	21.6#
279	31.8	19.1	28.7#

Manual Integrations
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4/11/2016 5:45:28 PM



#91
Benzo(g,h,i)perylene
Concen: 9.33 ng
RT: 17.03 min Scan# 1307
Delta R.T. -0.08 min
Lab File: BF086194.D
Acq: 9 Apr 2016 3:25

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.8	28.2
138	28.0	22.6	34.0

