

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100917\
 Data File : BF099284.D
 Acq On : 10 Oct 2017 1:28
 Operator : SJ/JU
 Sample : I5715-07 25X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-100517-C

Manual Integrations
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 10/10/2017 5:01:23 PM

Quant Time: Oct 10 05:14:36 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 17:20:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	102147	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	420048	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	183002	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	279413	20.00	ng	0.00
75) Chrysene-d12	14.03	240	191739	20.00	ng	0.00
86) Perylene-d12	15.50	264	197523	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	26487	4.13	ng	0.00
7) Phenol-d6	6.49	99	33426	4.22	ng	-0.01
23) Nitrobenzene-d5	7.42	82	17802	2.72	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	4826	3.22	ng	-0.01
44) 2-Fluorobiphenyl	9.22	172	44060	4.02	ng	-0.01
78) Terphenyl-d14	12.96	244	27965	3.32	ng	-0.01
Target Compounds						
51) Acenaphthene	9.93	154	23475	2.050	ng	97
54) Dibenzofuran	10.10	168	34759	2.280	ng	96
57) Fluorene	10.45	166	50021	4.082	ng	96
70) Phenanthrene	11.41	178	261805	17.505	ng	99
71) Anthracene	11.46	178	101678	6.644	ng	96
74) Fluoranthene	12.60	202	251174	16.585	ng	98
77) Pyrene	12.83	202	197254	13.491	ng	98
80) Benzo(a)anthracene	14.02	228	112274	9.670	ng	99
82) Chrysene	14.05	228	84895	7.680	ng	98
85) Indeno(1,2,3-cd)pyrene	16.98	276	37969	4.294	ng	100
87) Benzo(b)fluoranthene	15.07	252	113170m	9.319	ng	
88) Benzo(k)fluoranthene	15.09	252	41451m	3.456	ng	
89) Benzo(a)pyrene	15.44	252	81665	7.326	ng	98
91) Benzo(a,h,i)perylene	17.43	276	31049	3.521	ng	98

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

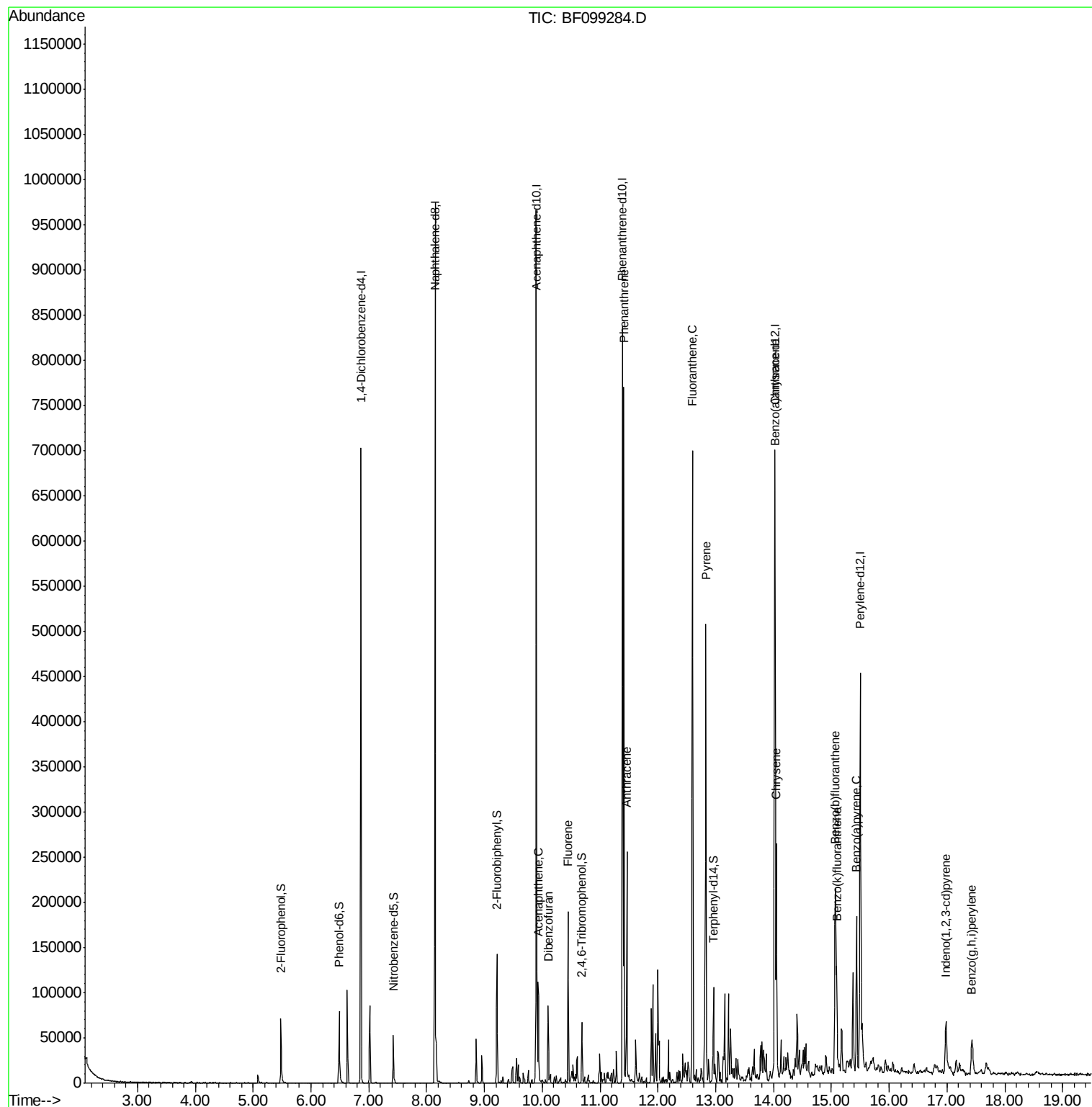
Data Path : Z:\HPCHEM1\BNA F\DATA\BF100917\
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ALS Vial : 27 Sample Multiplier: 1

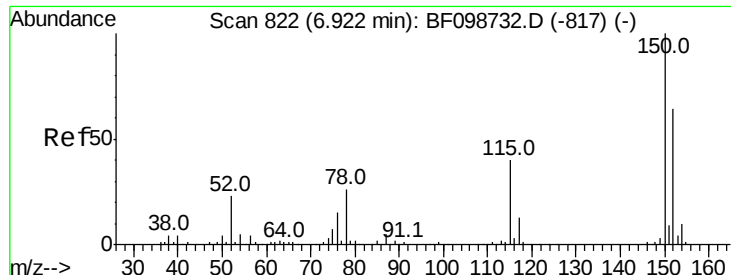
Instrument :
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PL-02-100517-C

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#1

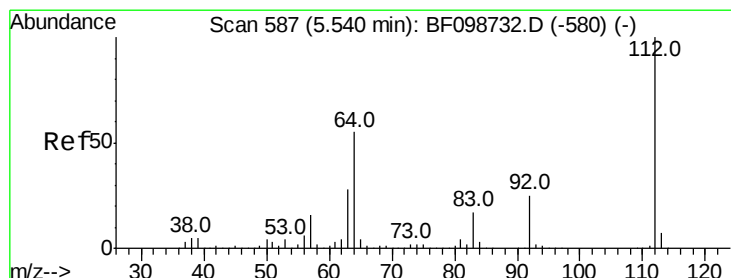
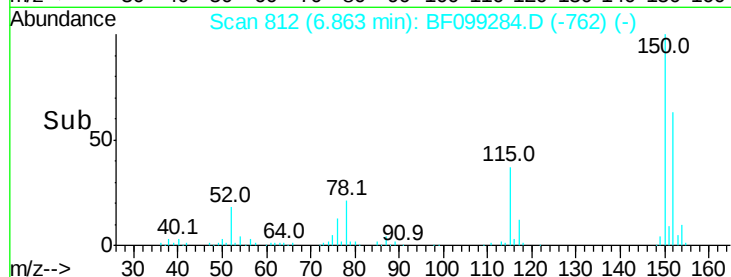
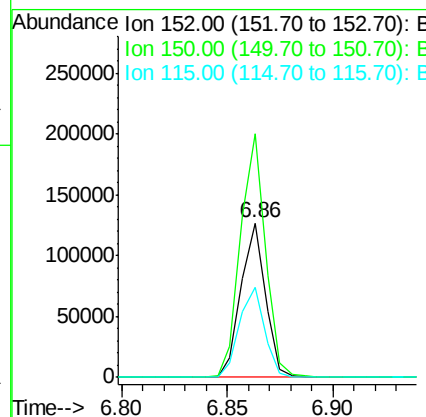
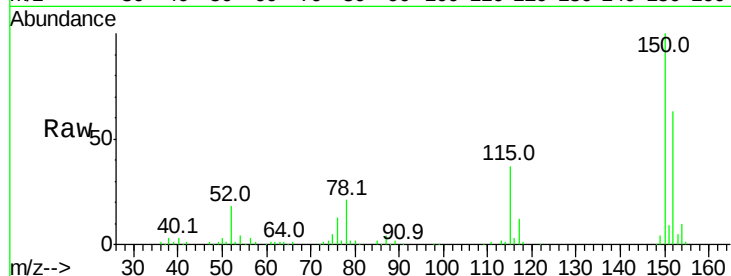
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.6	186.8
115	58.3	50.1	75.1

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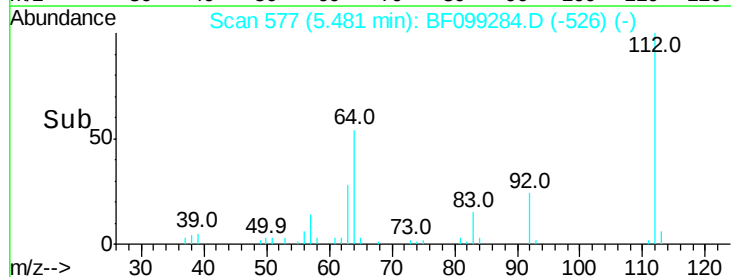
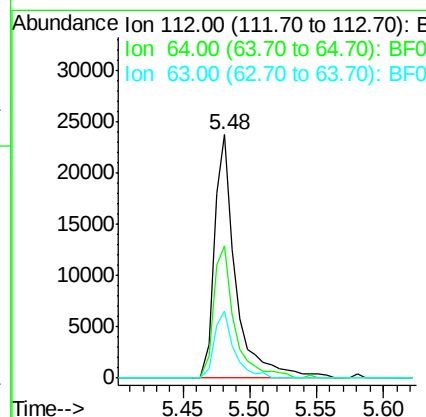
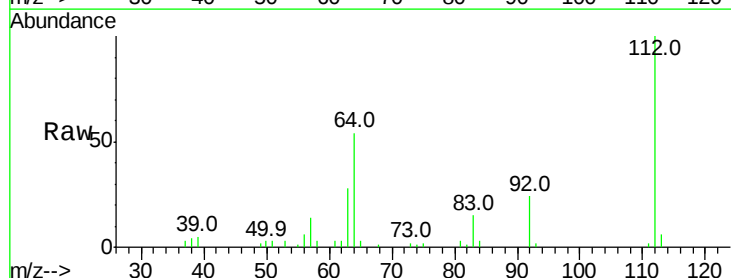
Sohil
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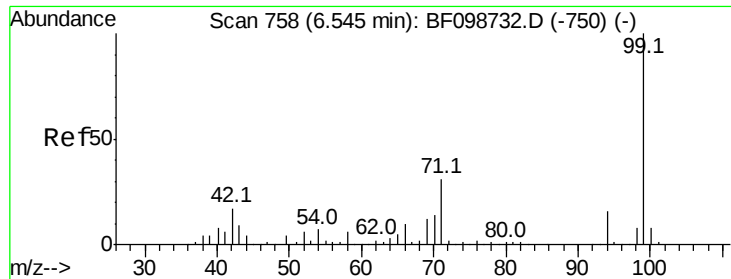


#5

2-Fluorophenol
Concen: 4.128 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.00 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	47.9	71.9
63	27.5	23.7	35.5





#7

Phenol-d6

Concen: 4.223 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

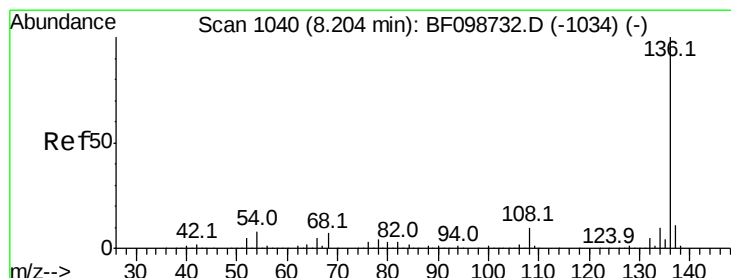
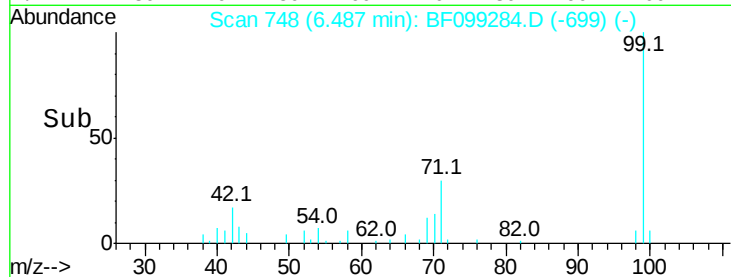
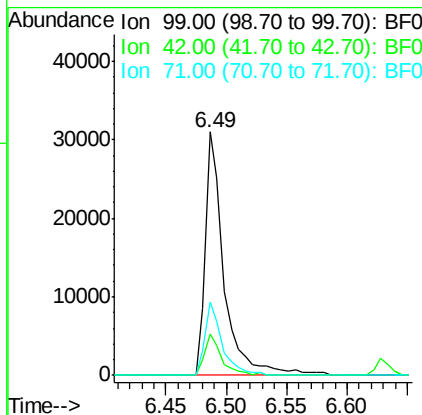
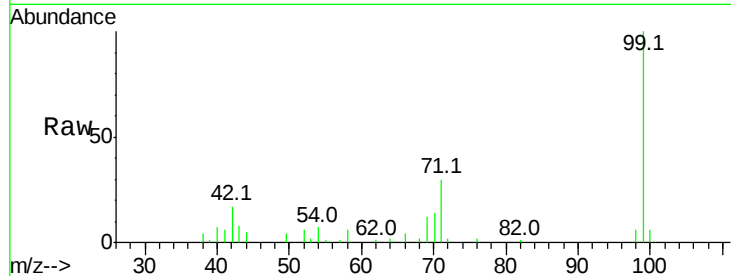
ClientSampleId :

PL-02-100517-C

Tot Ion:	99	Resp:	33426
Ion Ratio	Lower	Upper	
99	100		
42	17.2	14.5	21.7
71	30.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

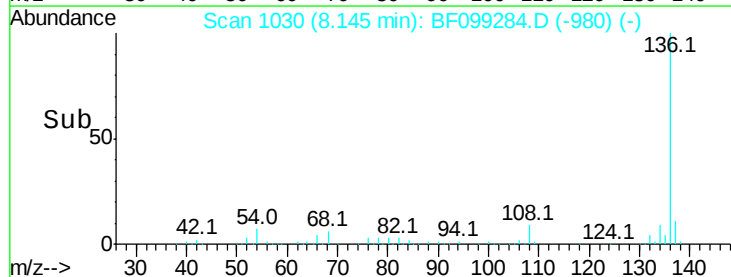
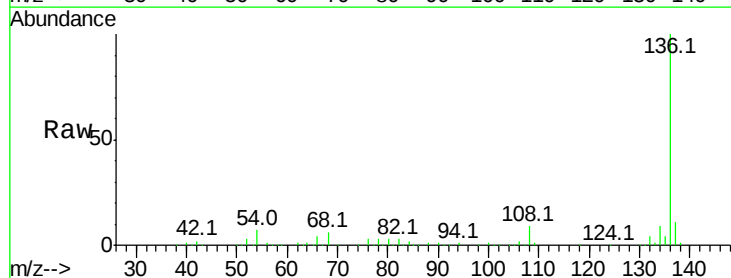
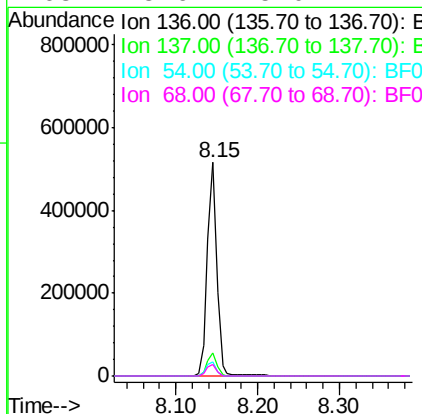
RT: 8.15 min Scan# 1030

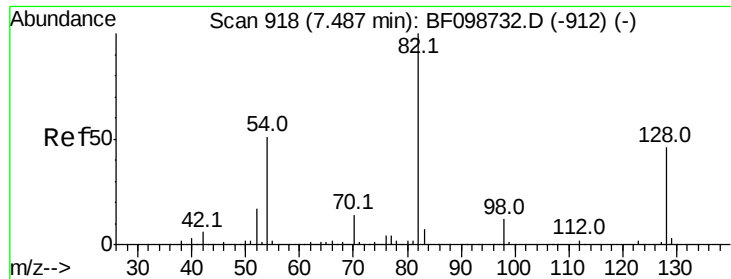
Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Tgt Ion:	136	Resp:	420048
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	6.9	6.6	9.8
68	5.6	5.0	7.4





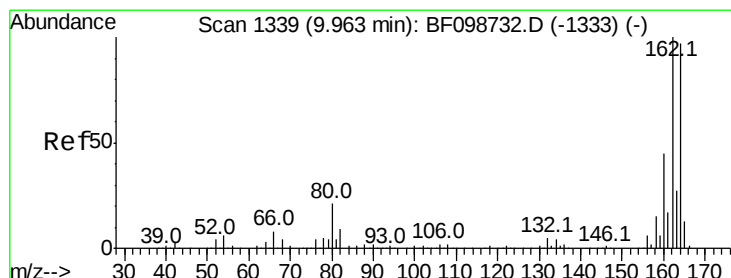
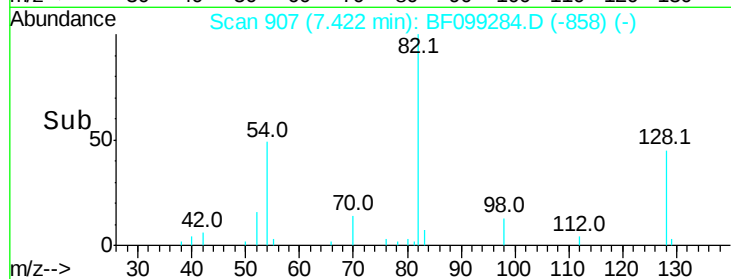
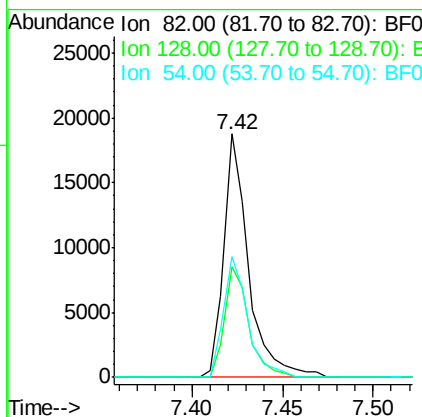
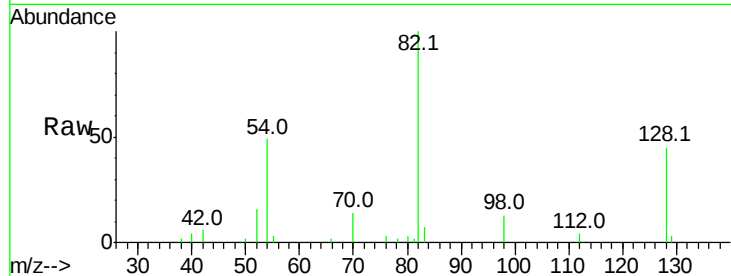
#23
Nitrobenzene-d5
Concen: 2.718 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.5	36.1	54.1
54	49.4	41.4	62.2

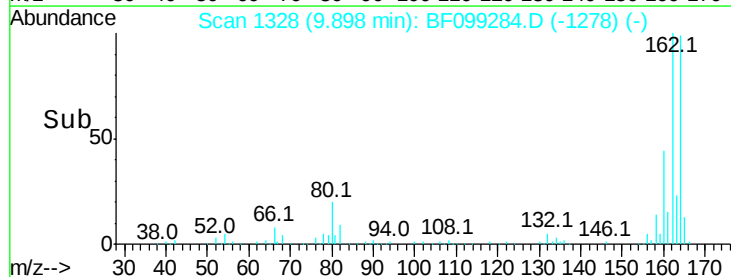
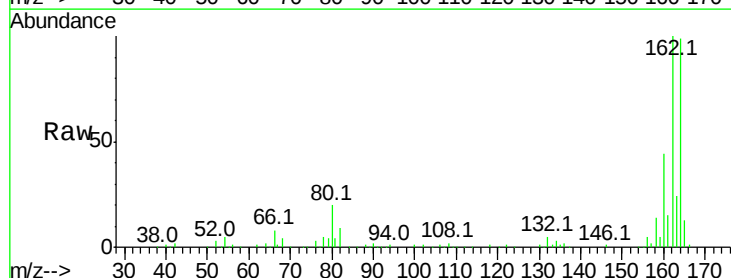
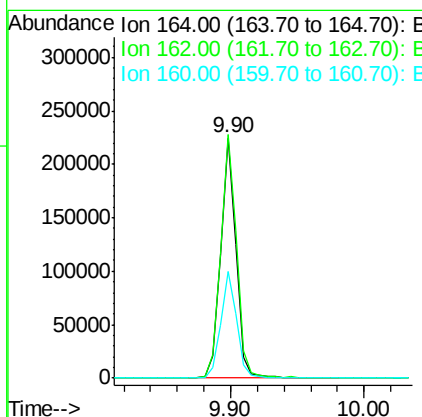
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	86.1	129.1
160	44.6	38.3	57.5





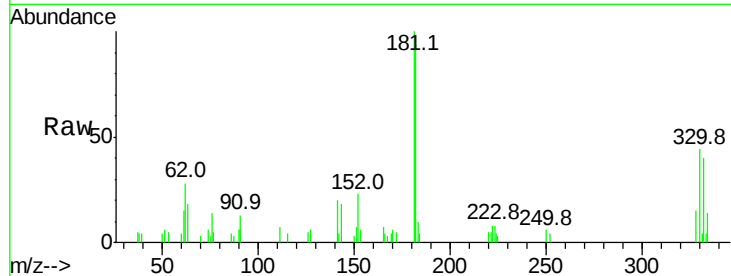
#41
 2,4,6-Tribromophenol
 Concen: 3.223 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.9	77.0	115.6
141	36.9	29.9	44.9

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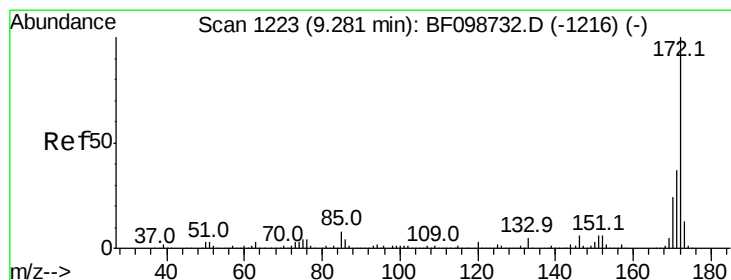
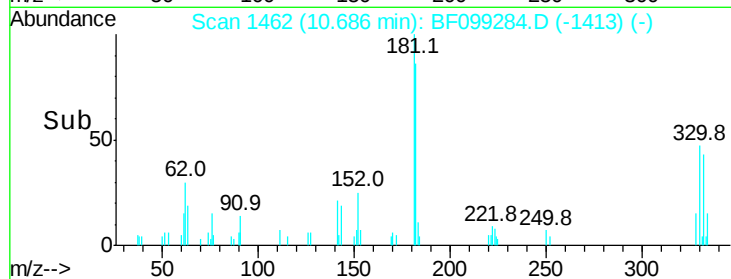
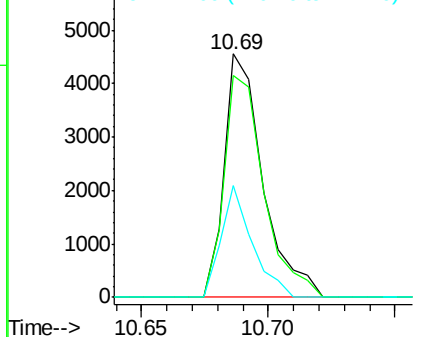


Abundance

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: 4.019 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

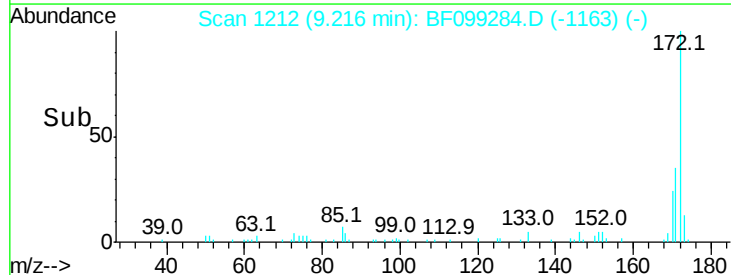
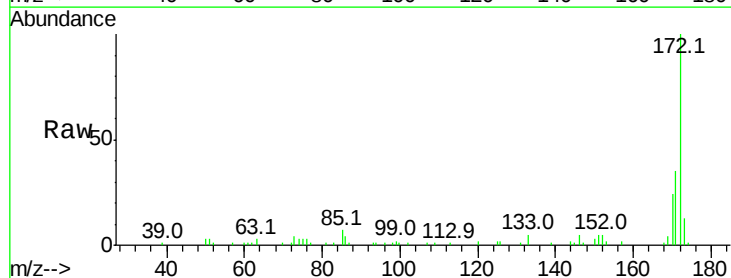
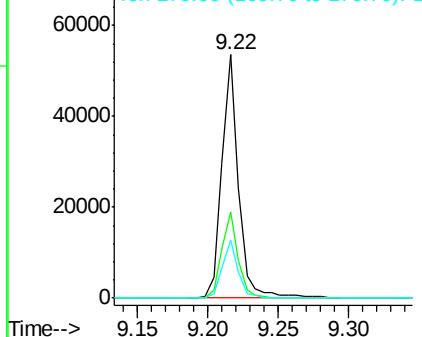
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.7	44.5
170	23.7	19.6	29.4

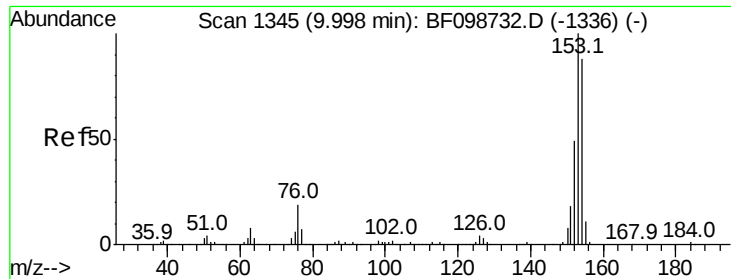
Abundance

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





#51

Acenaphthene

Concen: 2.050 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.02 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

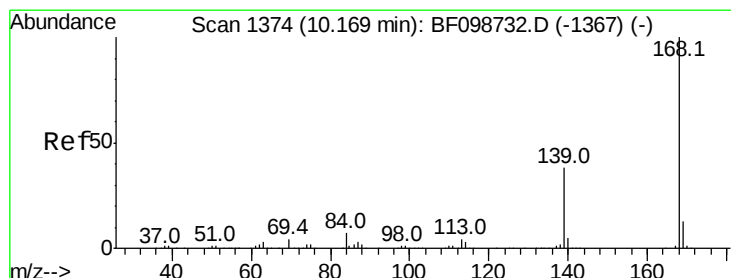
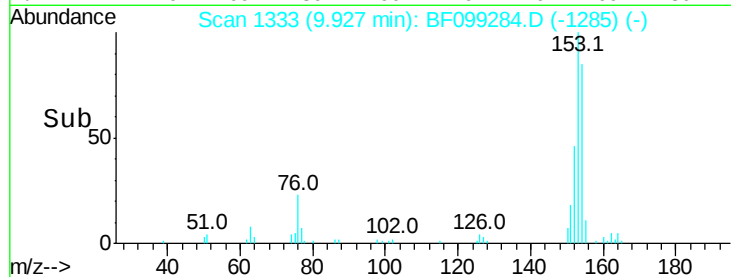
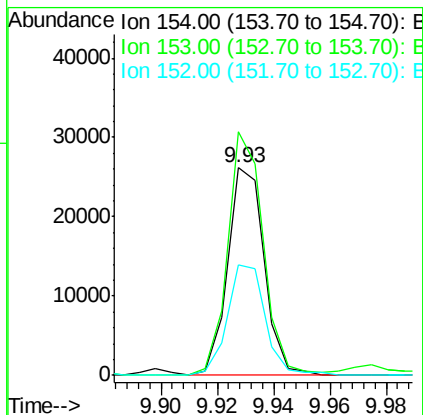
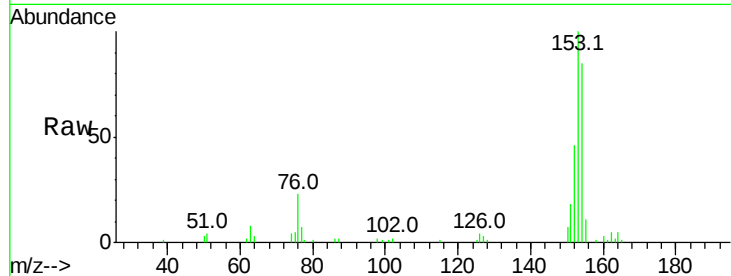
ClientSampleId :

PL-02-100517-C

Tot Ion:	154	Resp:	23475
Ion Ratio	Lower	Upper	
154	100		
153	117.5	91.2	136.8
152	53.5	43.8	65.8

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#54

Dibenzofuran

Concen: 2.280 ng

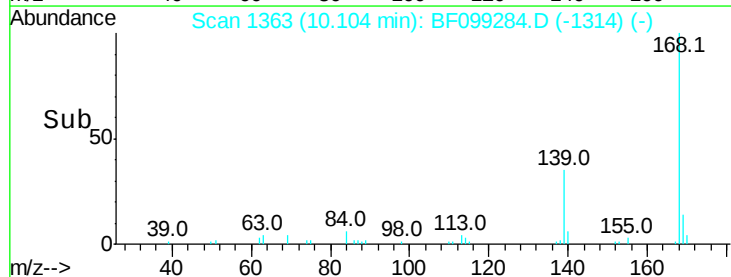
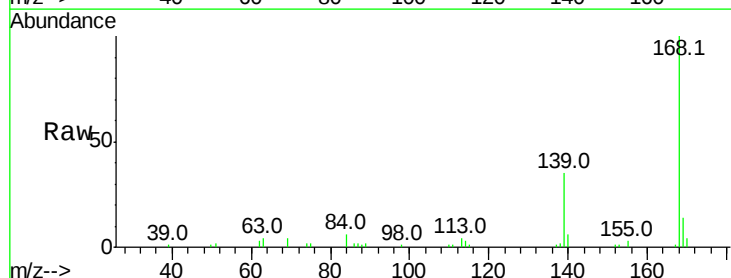
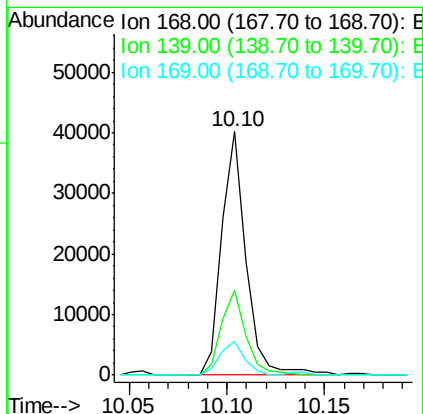
RT: 10.10 min Scan# 1363

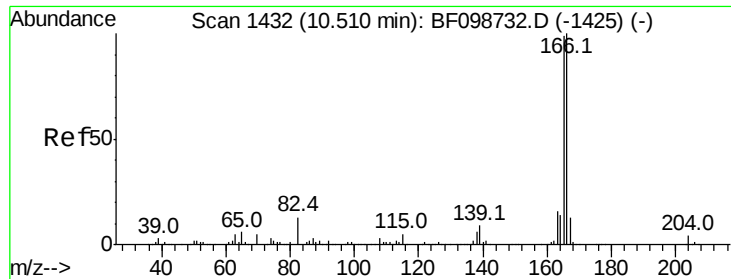
Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Tgt Ion:	168	Resp:	34759
Ion Ratio	Lower	Upper	
168	100		
139	34.8	30.1	45.1
169	14.1	10.9	16.3





#57

Fluorene

Concen: 4.082 ng

RT: 10.45 min Scan# 1421

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

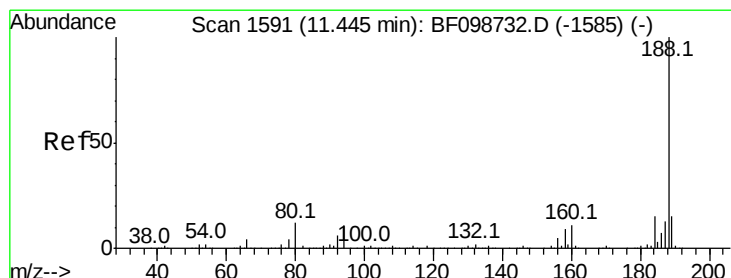
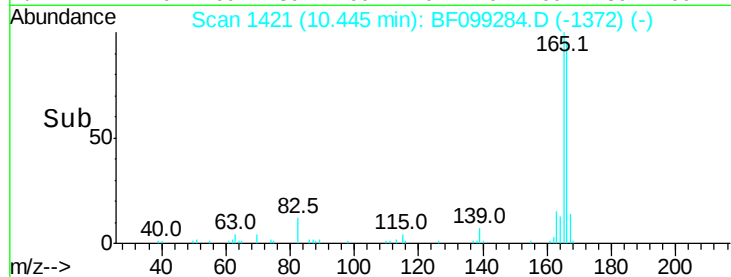
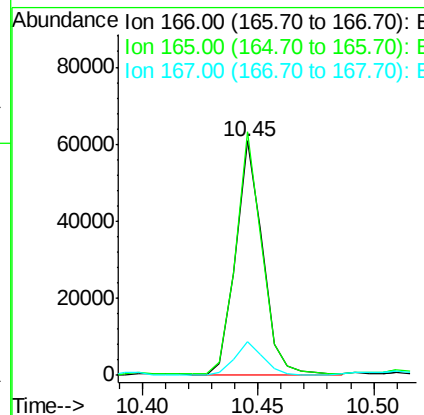
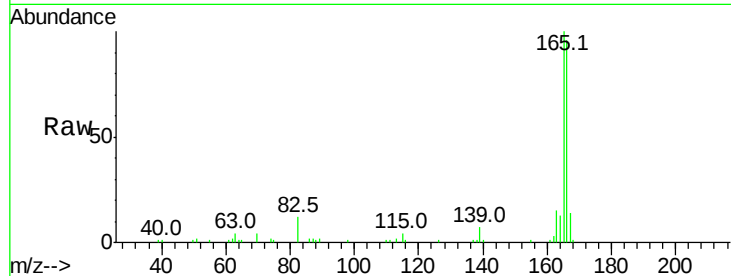
ClientSampleId :

PL-02-100517-C

Tot Ion:	166	Resp:	50021
Ion Ratio	Lower	Upper	
166	100		
165	103.9	79.8	119.8
167	14.4	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

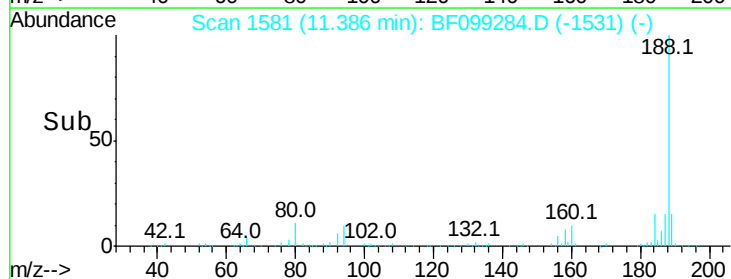
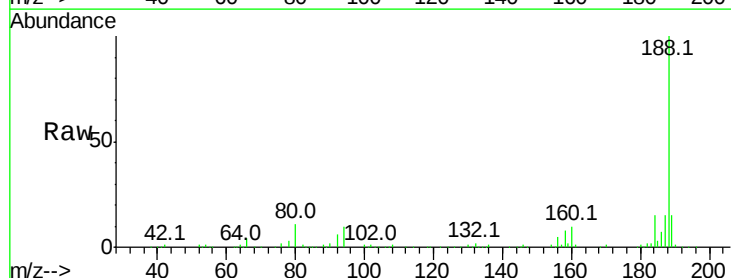
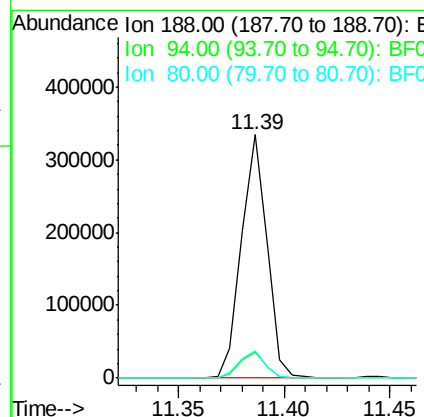
RT: 11.39 min Scan# 1581

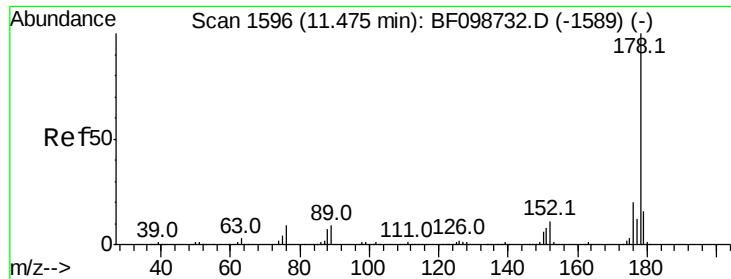
Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Tgt Ion:	188	Resp:	279413
Ion Ratio	Lower	Upper	
188	100		
94	10.5	8.5	12.7
80	11.4	9.2	13.8





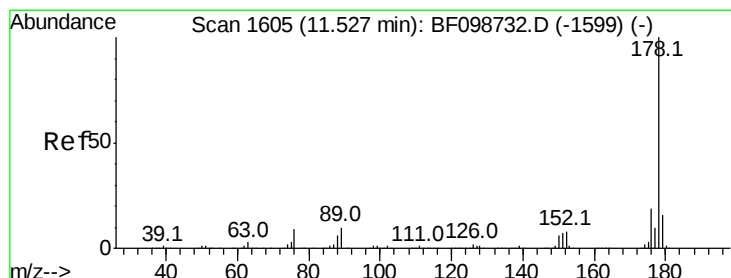
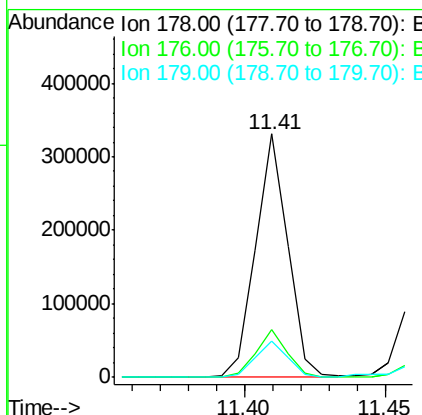
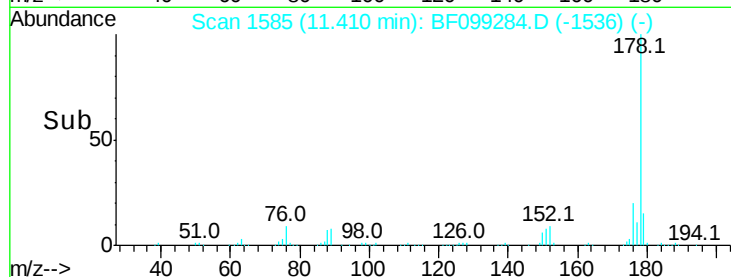
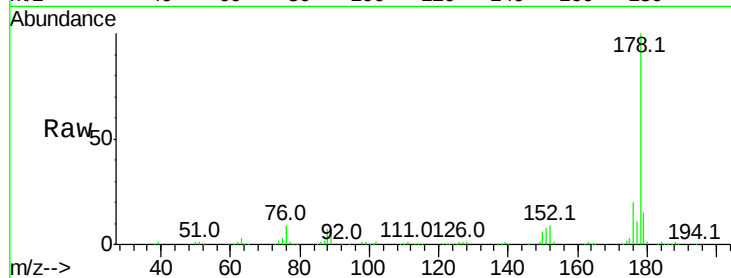
#70
 Phenanthrene
 Concen: 17.505 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.1	13.0	19.6

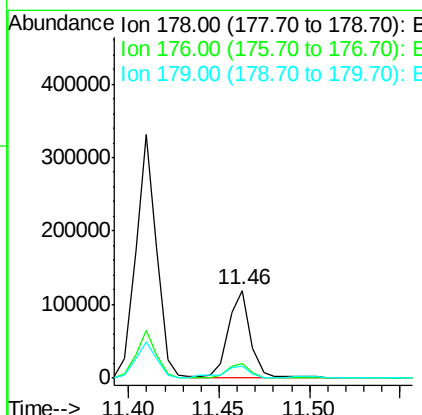
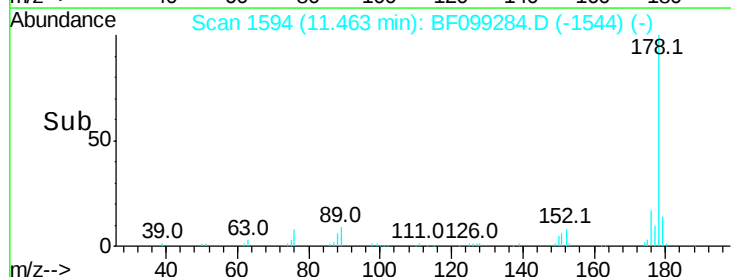
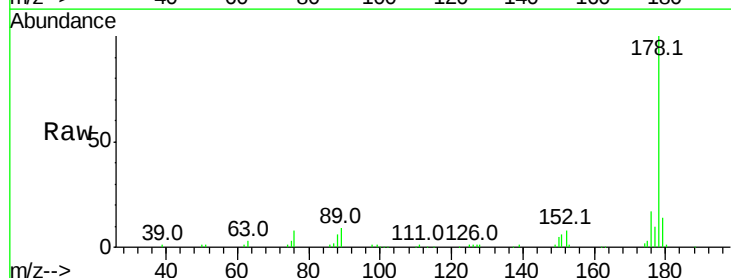
Manual Integrations
 APPROVED

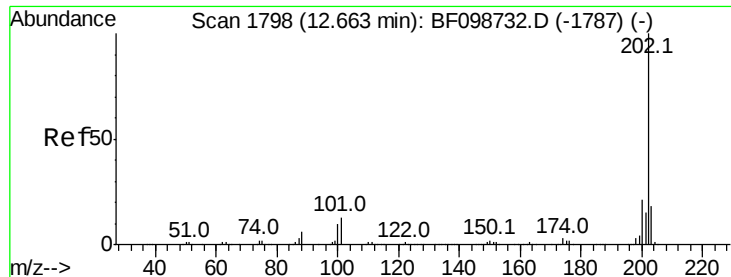
Sohil
 10/10/2017 5:01:23 PM



#71
 Anthracene
 Concen: 6.644 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.1	15.4	23.2
179	14.1	12.6	19.0





#74

Fluoranthene

Concen: 16.585 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

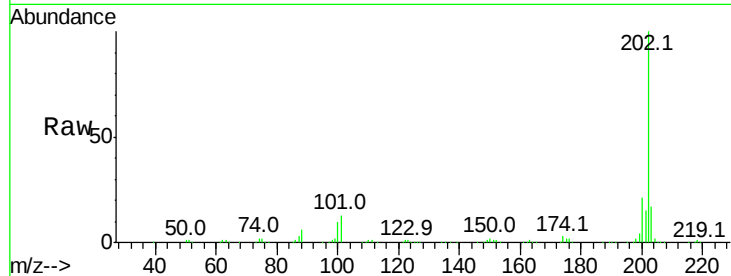
ClientSampleId :

PL-02-100517-C

Tot Ion	Ratio	Resp	Lower	Upper
202	100	251174		
101	13.5	0.0	34.1	
203	17.2	0.0	38.1	

Manual Integrations
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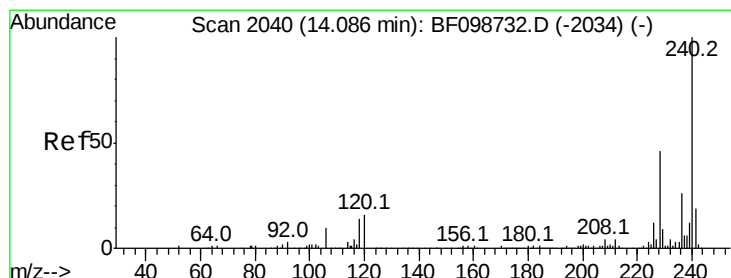
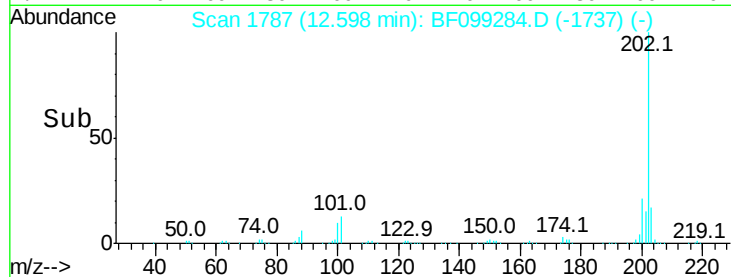
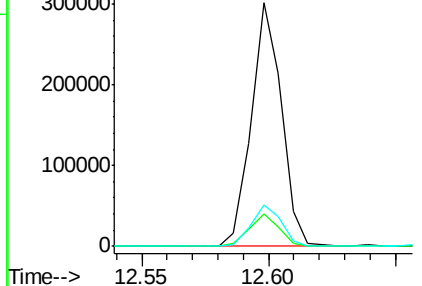
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF099284.D

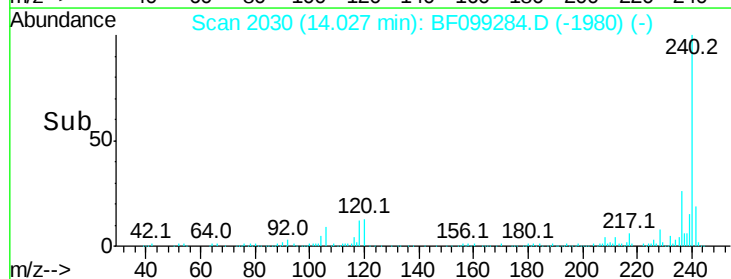
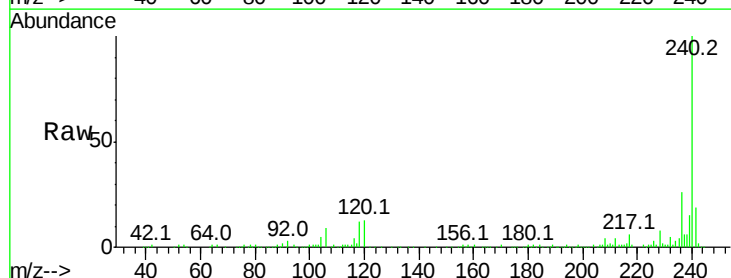
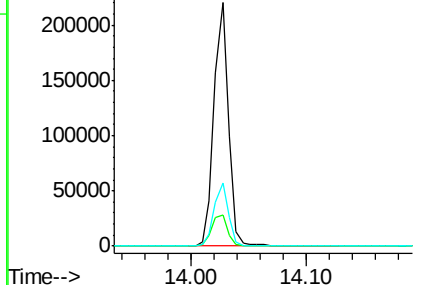
Acq: 10 Oct 2017 1:28

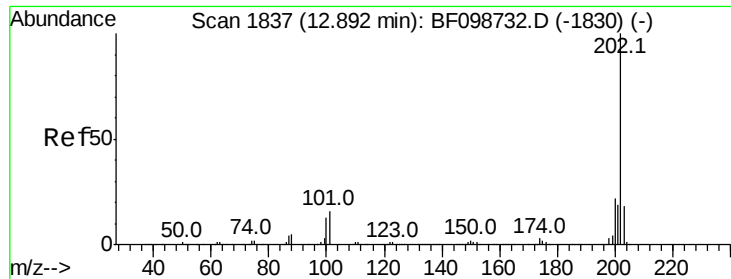
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	191739		
120	12.8	9.5	14.3	
236	25.8	20.7	31.1	

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





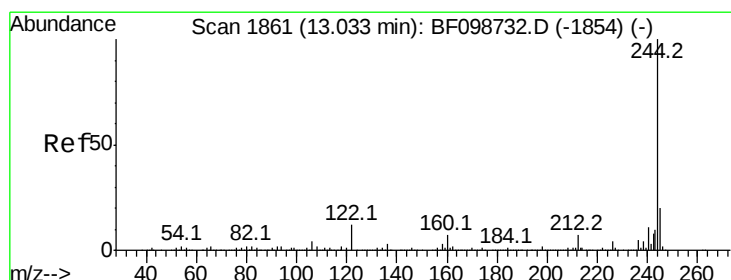
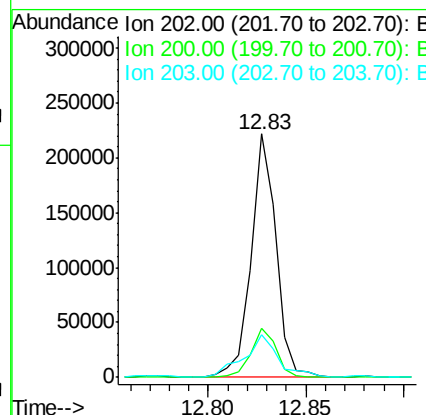
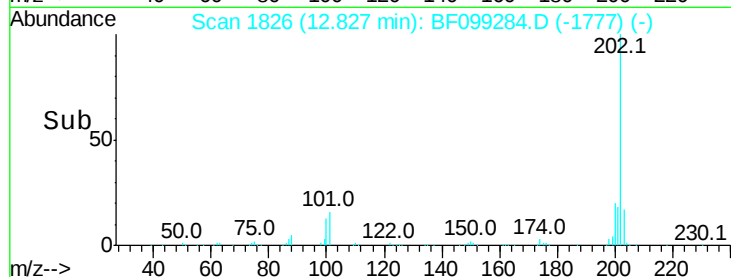
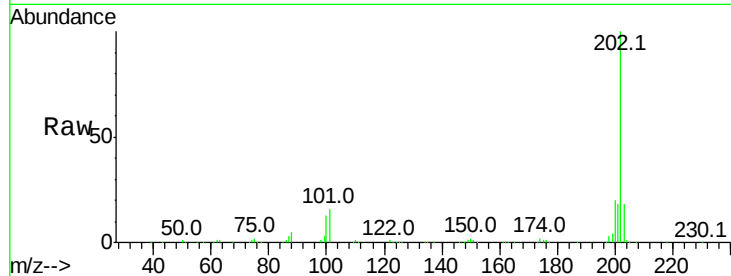
#77
Pvrene
Concen: 13.491 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.4	26.2
203	17.7	14.3	21.5

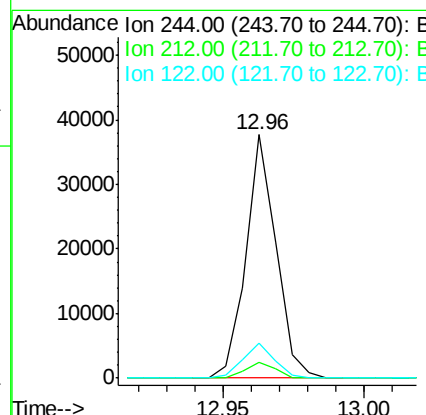
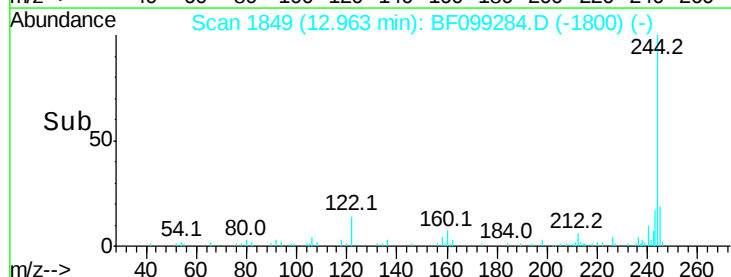
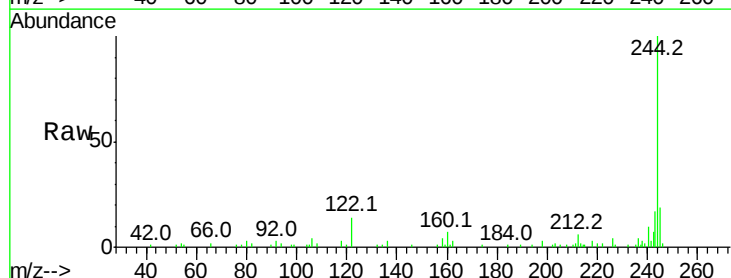
Manual Integrations
APPROVED

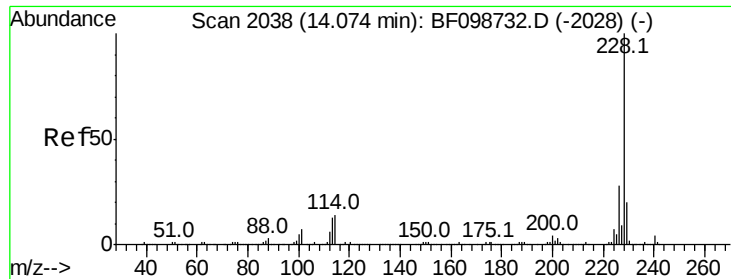
Sohil
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#78
Terphenyl-d14
Concen: 3.317 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	14.3	11.0	16.4





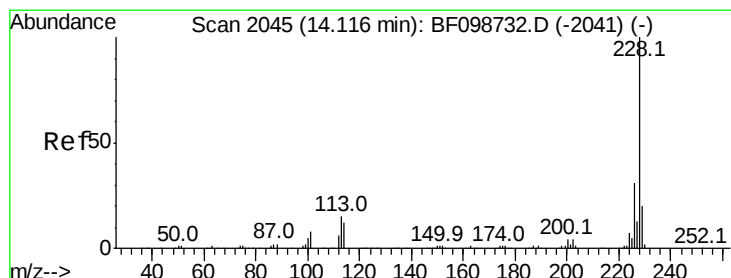
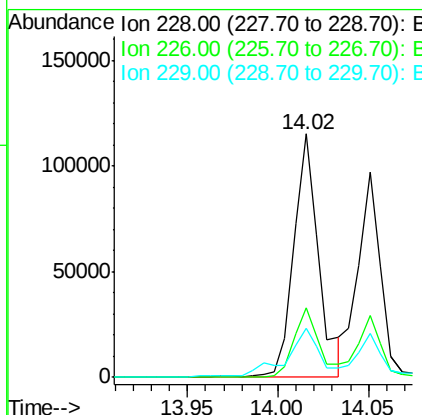
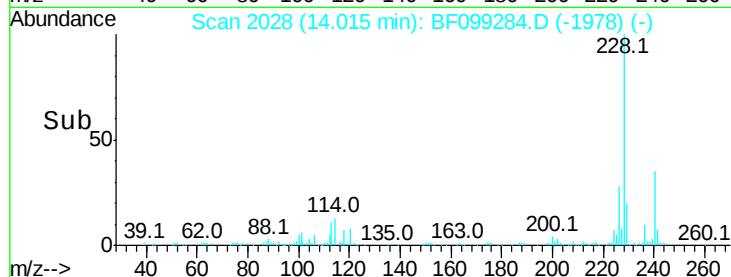
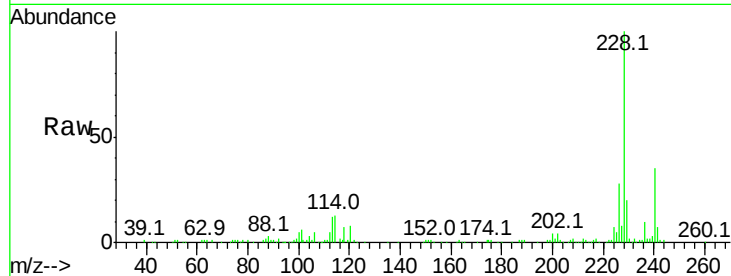
#80
Benzo(a)anthracene
Concen: 9.670 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.4	15.8	23.6

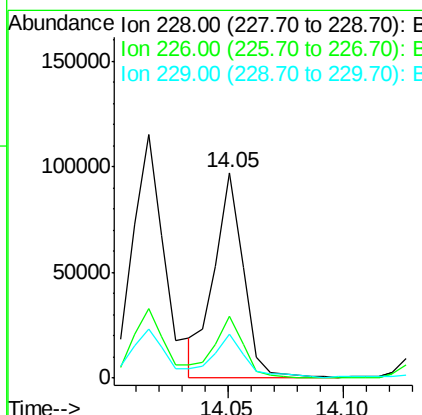
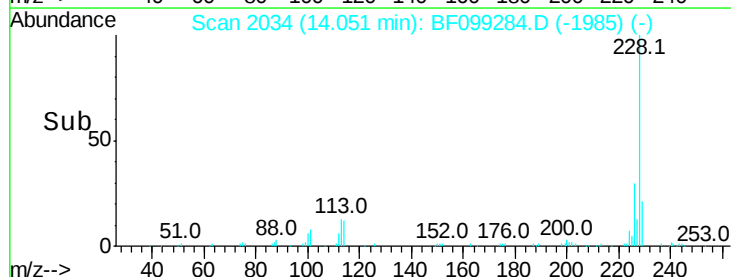
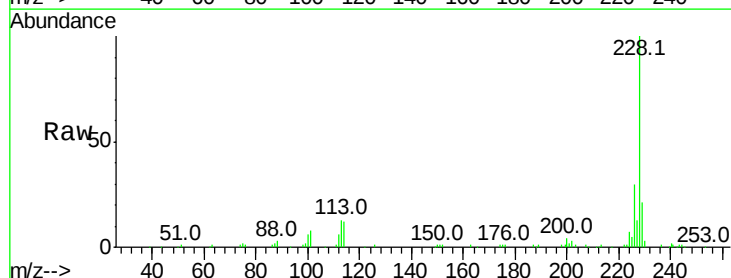
Manual Integrations
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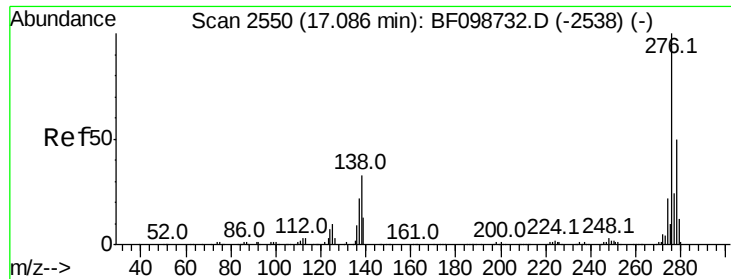
Sohil
10/10/2017 5:01:23 PM



#82
Chrysene
Concen: 7.680 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.0	37.6
229	21.3	16.2	24.4





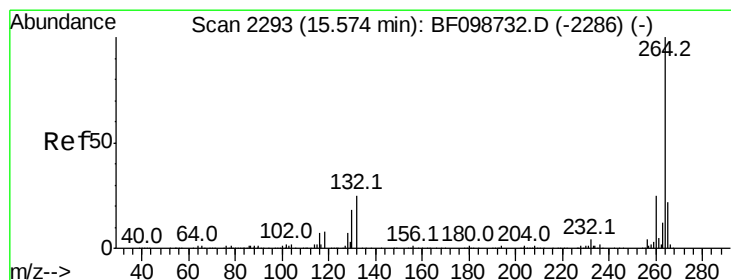
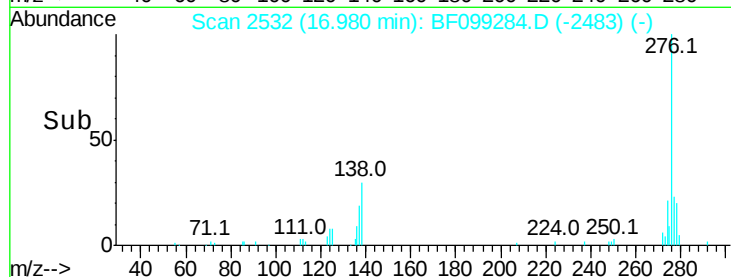
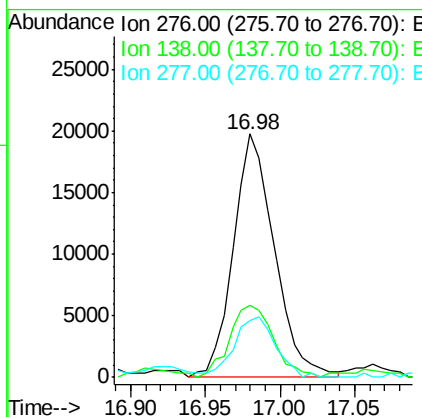
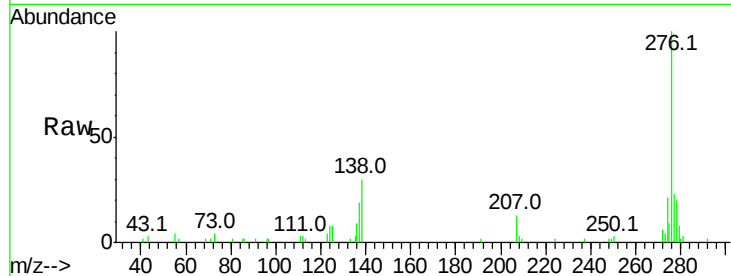
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.294 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.4	25.0	37.6
277	25.0	20.1	30.1

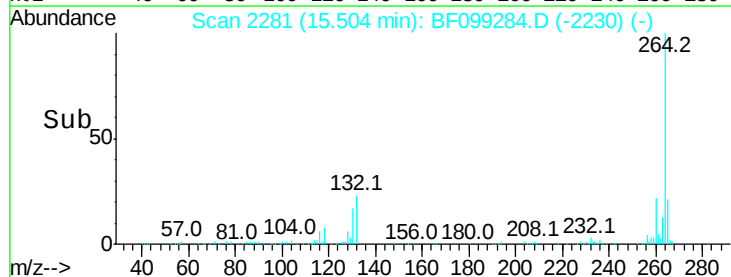
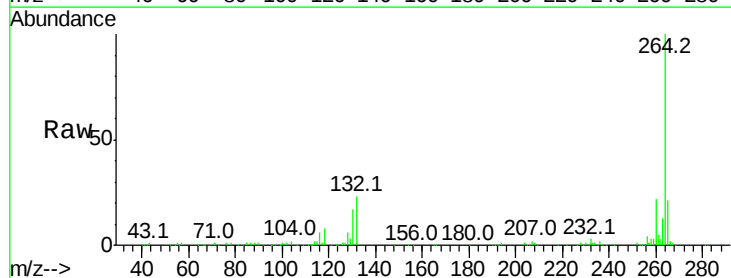
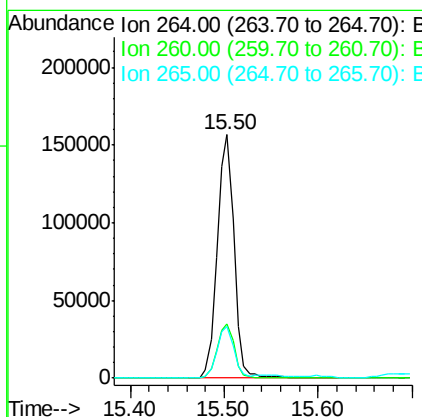
Manual Integrations
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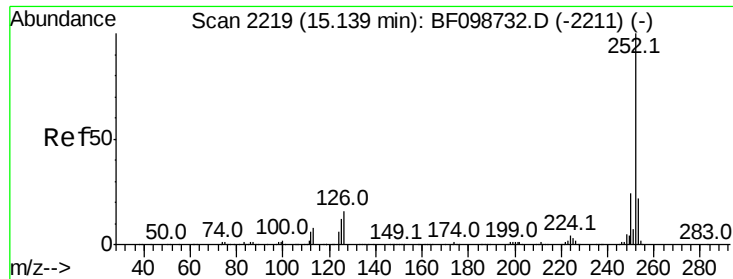
Sohil
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.1	19.2	28.8
265	21.0	17.5	26.3





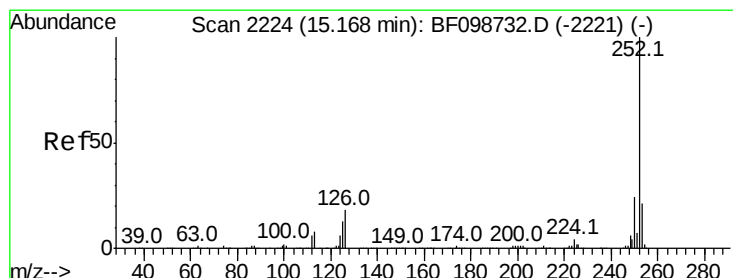
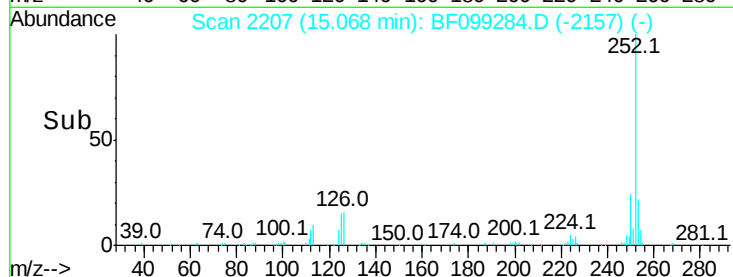
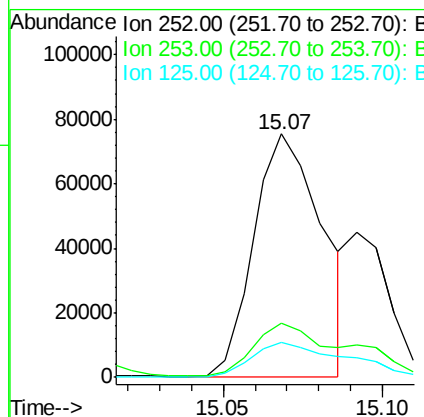
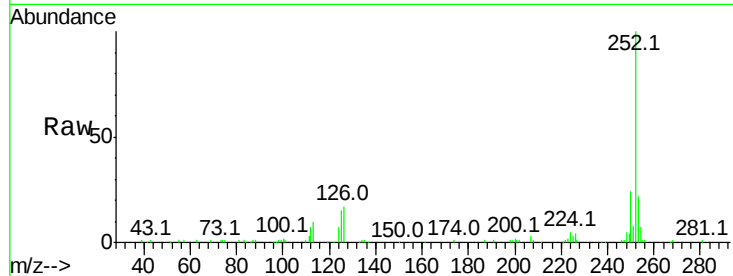
#87
Benzo(b)fluoranthene
Concen: 9.319 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.6
125	14.6	9.0	13.6

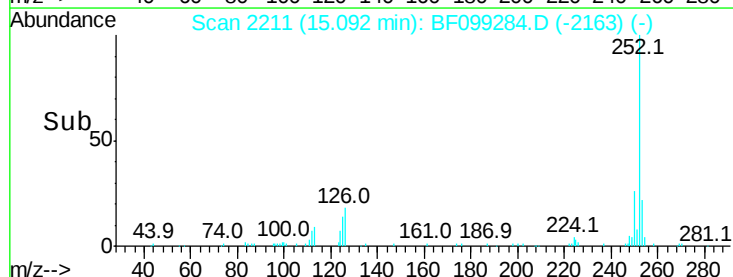
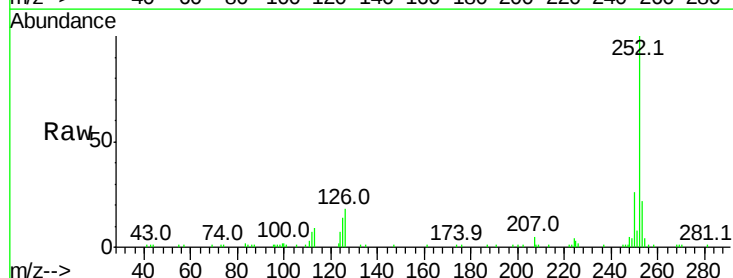
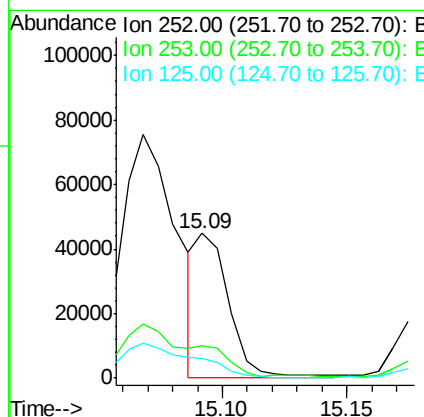
Manual Integrations
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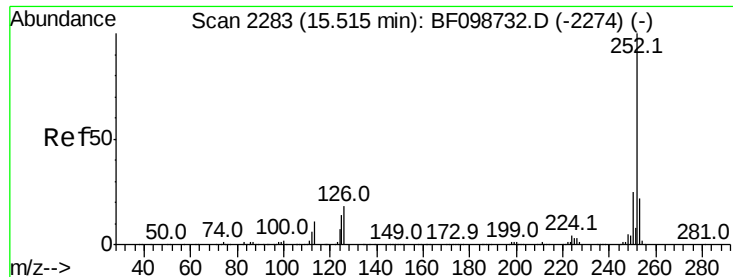
Sohil
10/10/2017 5:01:23 PM



#88
Benzo(k)fluoranthene
Concen: 3.456 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.02 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	13.8	10.2	15.2





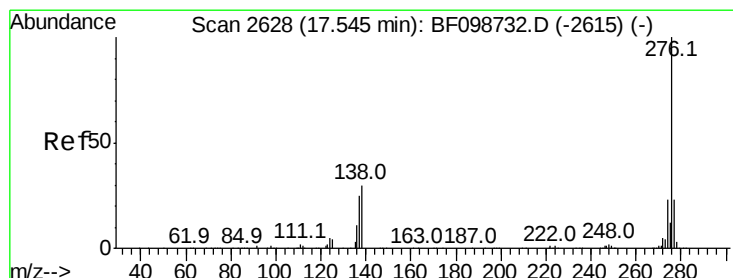
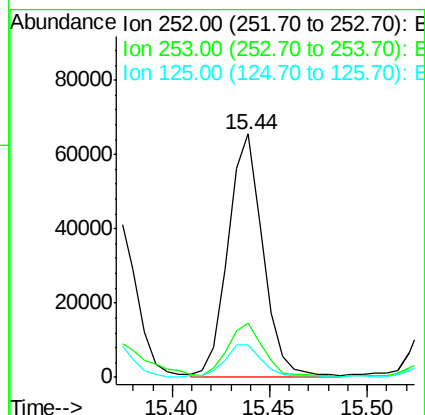
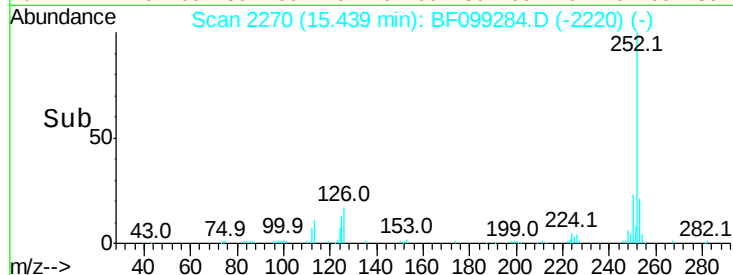
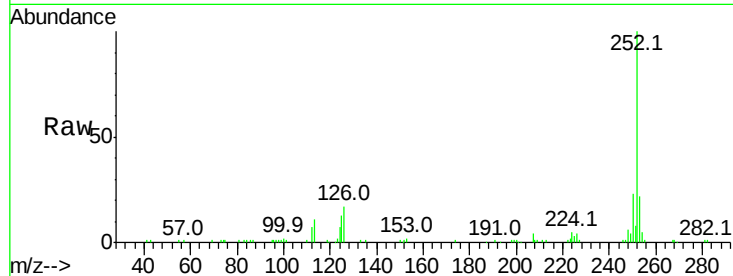
#89
Benzo(a)pyrene
Concen: 7.326 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :
PL-02-100517-C

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.1	17.1	25.7
125	13.5	9.8	14.6

Manual Integrations
APPROVED

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10/10/2017 5:01:23 PM



#91
Benzo(g,h,i)perylene
Concen: 3.521 ng
RT: 17.43 min Scan# 2609
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	23.1	17.9	26.9
138	28.7	21.8	32.8

