

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097227.D
 Acq On : 1 Aug 2017 12:42
 Operator : SJ/JU
 Sample : I4488-10DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-DDL

Manual Integrations
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Sohil
 8/2/2017 7:15:14 PM

Quant Time: Aug 01 15:22:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 01 14:57:42 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.46	152	99178	20.00	ng	0.00
21) Naphthalene-d8	7.75	136	363502	20.00	ng	0.00
38) Acenaphthene-d10	9.49	164	139275	20.00	ng	0.00
63) Phenanthrene-d10	10.97	188	235629	20.00	ng	0.00
75) Chrysene-d12	13.60	240	203296	20.00	ng	0.00
86) Perylene-d12	14.94	264	169649	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	356828	54.24	ng	0.00
7) Phenol-d6	6.14	99	385102	51.27	ng	-0.01
23) Nitrobenzene-d5	7.03	82	201521	32.52	ng	-0.01
41) 2,4,6-Tribromophenol	10.28	330	52971	48.14	ng	-0.01
44) 2-Fluorobiphenyl	8.83	172	311918	38.01	ng	0.00
78) Terphenyl-d14	12.55	244	241716	24.24	ng	0.00
Target Compounds						
10) Phenol	6.15	94	19589	2.199	ng	Qvalue 87
31) Naphthalene	7.77	128	75040	4.379	ng	98
37) 2-Methylnaphthalene	8.46	142	70498	6.498	ng	98
48) Acenaphthylene	9.36	152	122345	9.105	ng	98
49) Dimethylphthalate	9.23	163	66327	6.271	ng	99
51) Acenaphthene	9.53	154	86020	10.868	ng	97
54) Dibenzofuran	9.70	168	52791	5.008	ng	# 95
57) Fluorene	10.04	166	142082	17.932	ng	94
70) Phenanthrene	10.99	178	674670	53.439	ng	100
71) Anthracene	11.05	178	251849	19.477	ng	97
72) Carbazole	11.21	167	31461	2.474	ng	97
74) Fluoranthene	12.18	202	796078	64.365	ng	98
77) Pyrene	12.40	202	920630	55.316	ng	99
80) Benzo(a)anthracene	13.59	228	417824	31.764	ng	92
82) Chrysene	13.62	228	400979m	31.218	ng	
85) Indeno(1,2,3-cd)pyrene	16.16	276	113926	10.344	ng	94
87) Benzo(b)fluoranthene	14.59	252	338889m	33.231	ng	
88) Benzo(k)fluoranthene	14.61	252	136400m	14.036	ng	
89) Benzo(a)pyrene	14.90	252	280241	30.026	ng	96
90) Dibenzo(a,h)anthracene	16.16	278	32816	4.288	ng	# 78
91) Benzo(g,h,i)perylene	16.52	276	110594	13.779	ng	99

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

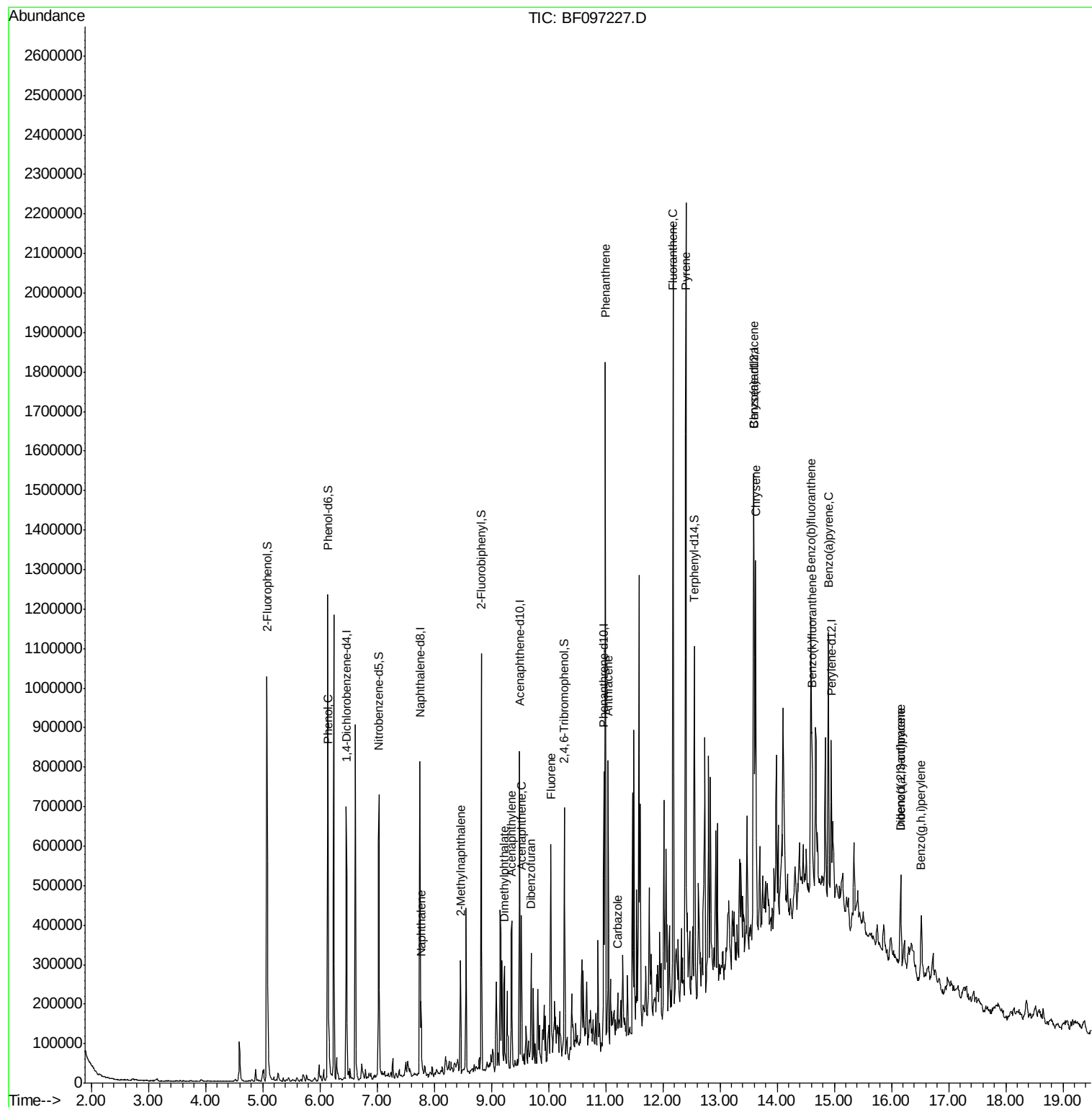
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
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ALS Vial : 5 Sample Multiplier: 1

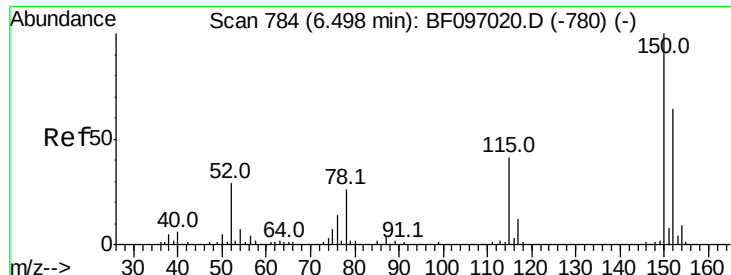
Instrument :
BNA_F
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CL-02-072717-DDL

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#1

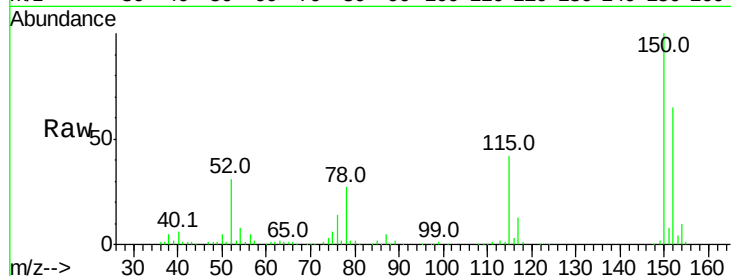
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.46 min Scan# 778
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	126.2	189.2
115	65.1	52.2	78.2

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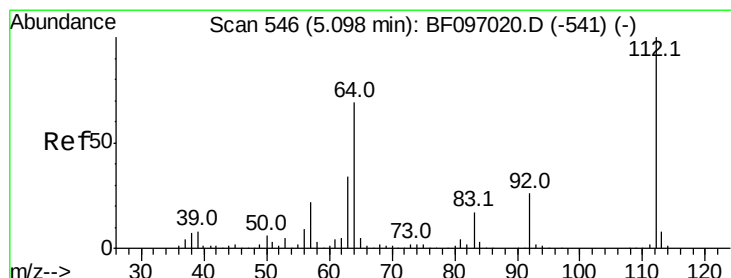
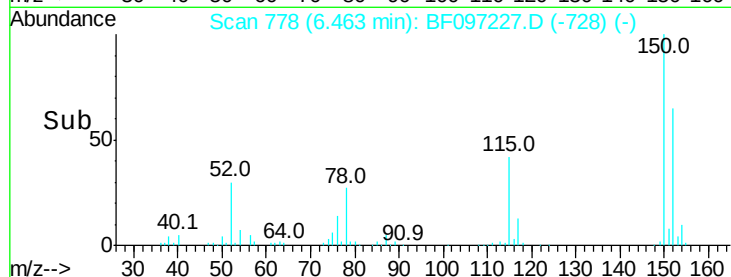
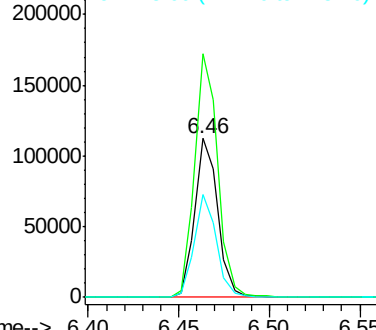


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

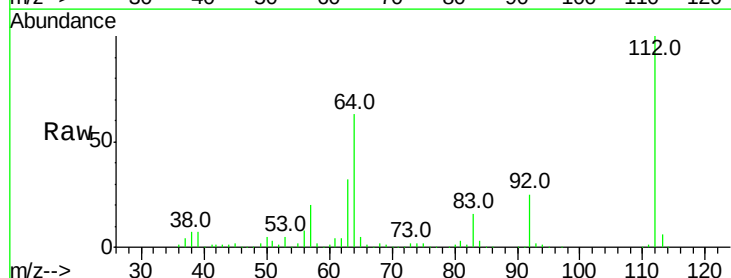
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 54.237 ng
RT: 5.07 min Scan# 542
Delta R.T. 0.00 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.3	46.0	69.0
63	32.4	23.4	35.0

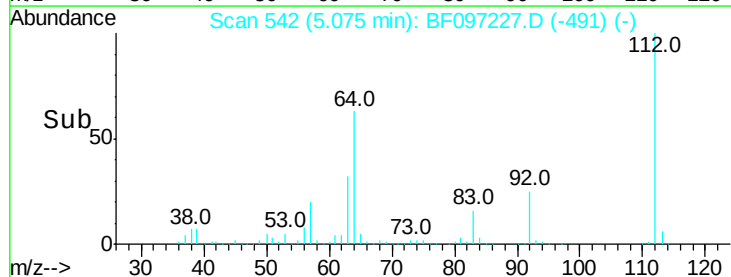
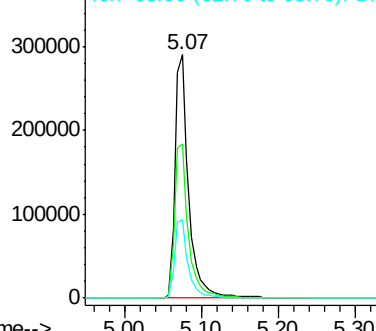


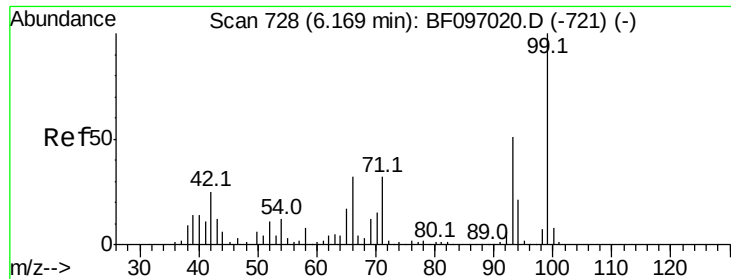
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 51.274 ng

RT: 6.14 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-DDL

Tot Ion: 99 Resp: 385102

Ion Ratio Lower Upper

99 100

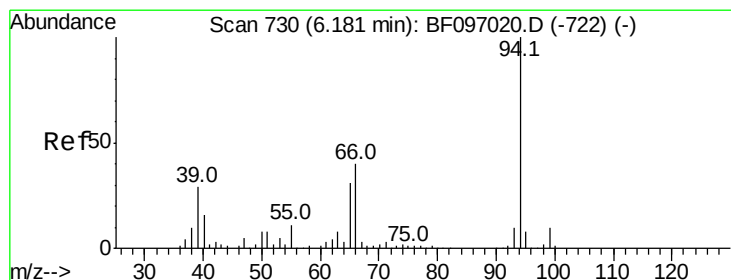
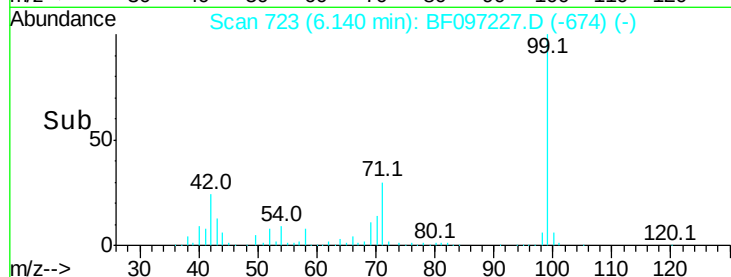
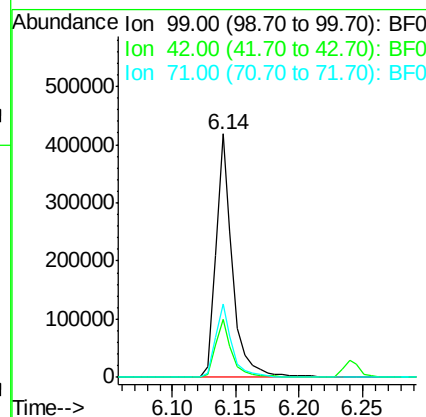
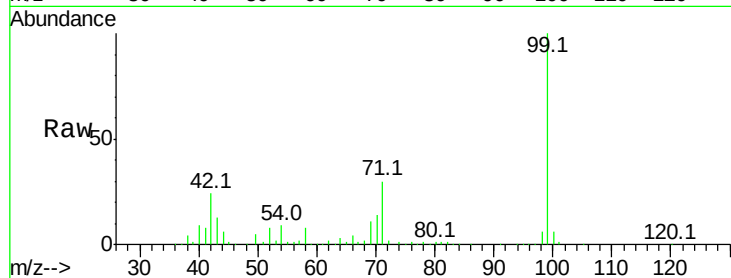
42 23.7 13.5 20.3#

71 30.4 24.5 36.7

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#10

Phenol

Concen: 2.199 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

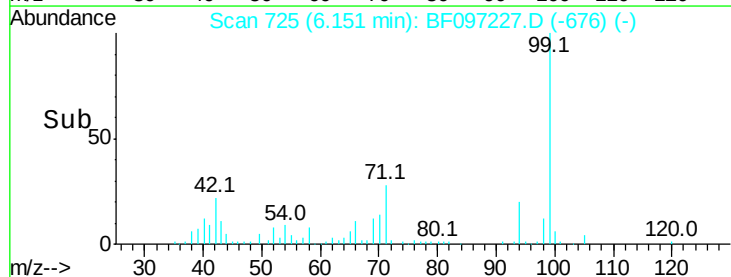
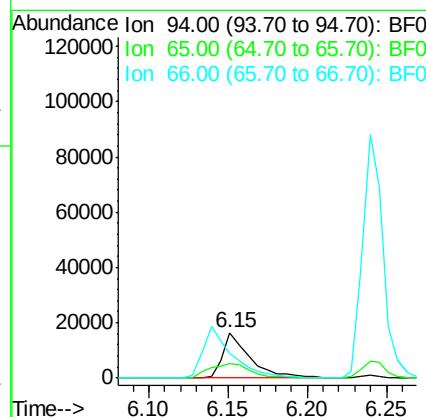
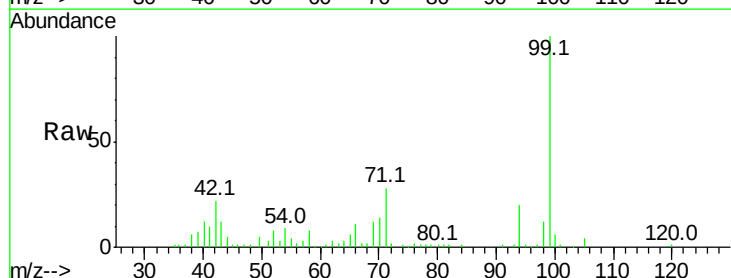
Tgt Ion: 94 Resp: 19589

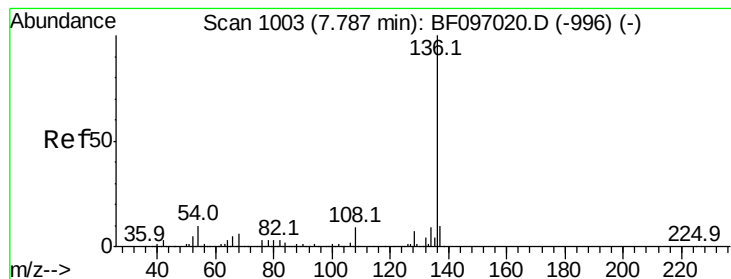
Ion Ratio Lower Upper

94 100

65 31.5 9.9 49.9

66 55.4 23.1 63.1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.75 min Scan# 997

Delta R.T. 0.00 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Instrument :

BNA_F

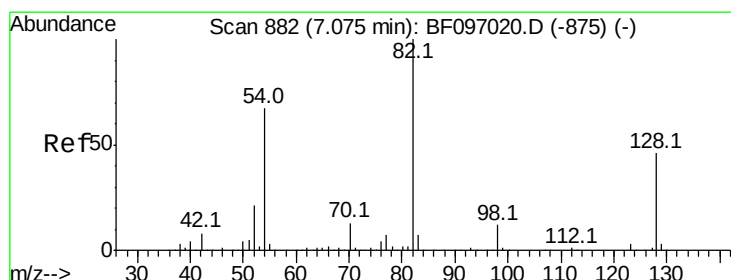
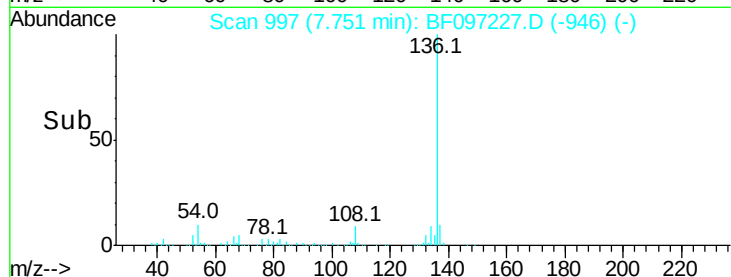
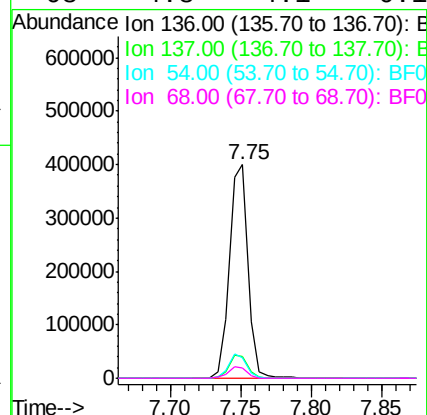
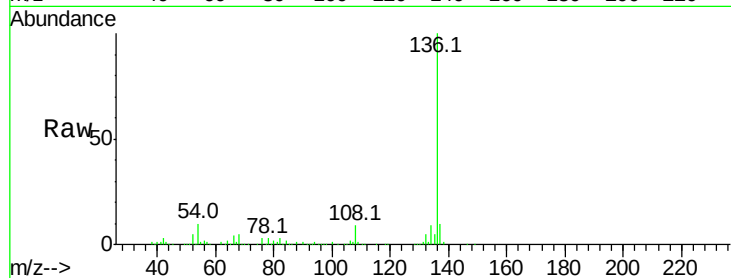
ClientSampleId :

CL-02-072717-DDL

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.1	8.5	12.7
54	9.5	4.9	7.3#
68	4.8	4.1	6.1

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#23

Nitrobenzene-d5

Concen: 32.523 ng

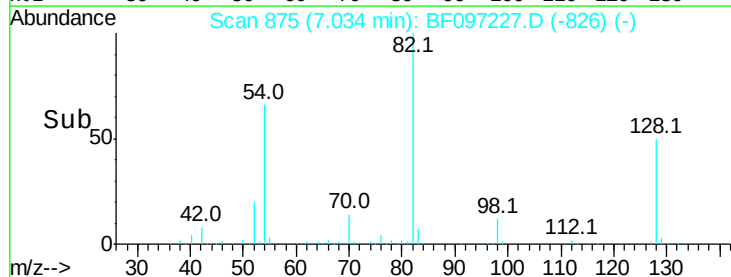
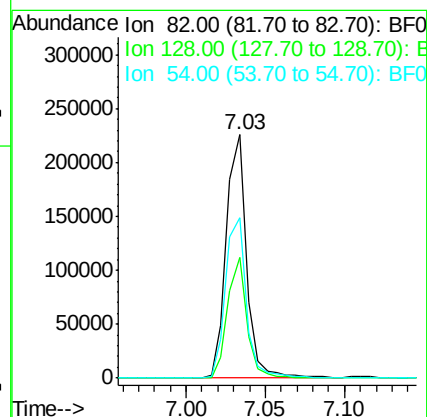
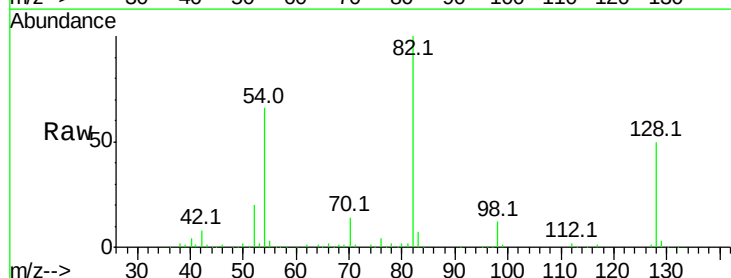
RT: 7.03 min Scan# 875

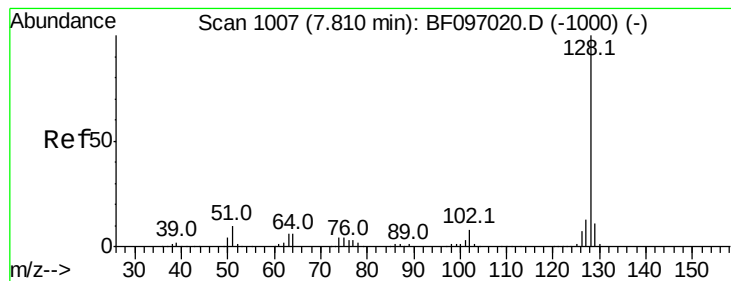
Delta R.T. -0.01 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	49.5	34.0	51.0
54	65.6	42.2	63.2#





#31

Naphthalene

Concen: 4.379 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.01 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Instrument :

BNA_F

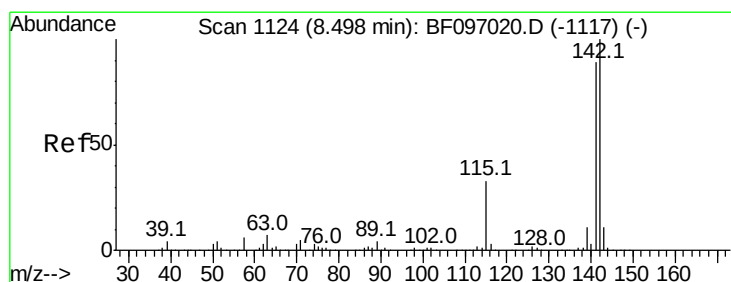
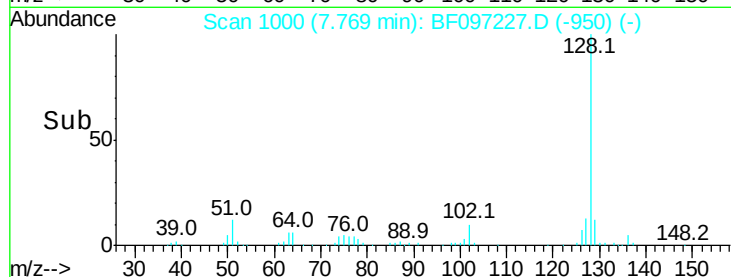
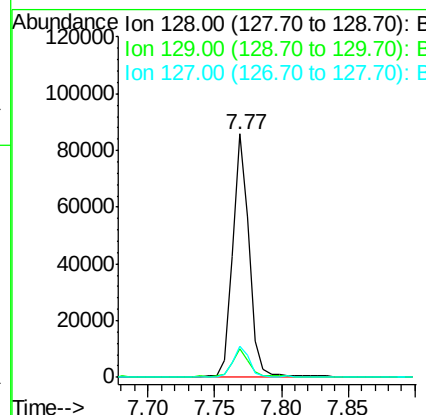
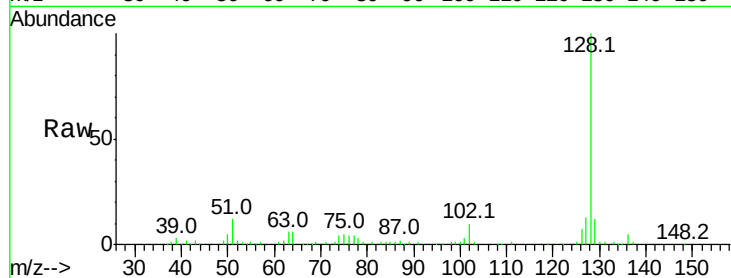
ClientSampleId :

CL-02-072717-DDL

Tot Ion:	128	Resp:	75040
Ion Ratio	Lower	Upper	
128	100		
129	11.9	9.0	13.6
127	12.8	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 6.498 ng

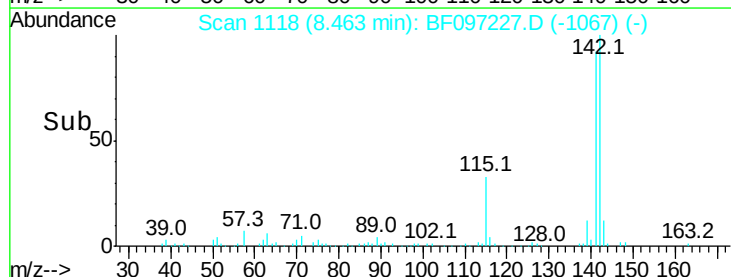
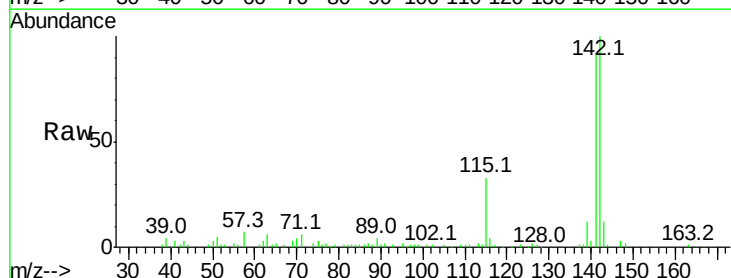
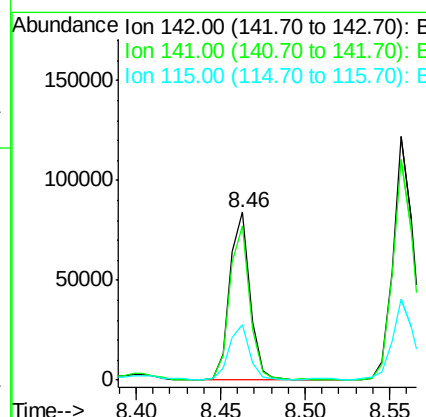
RT: 8.46 min Scan# 1118

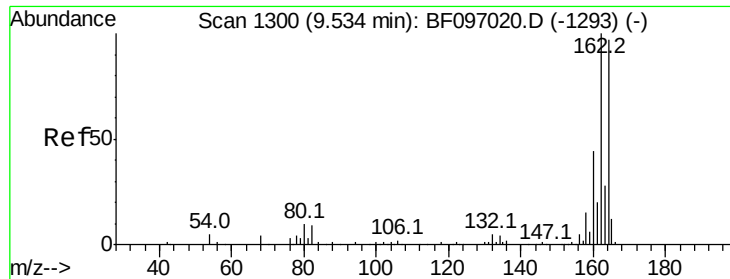
Delta R.T. 0.00 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Tgt Ion:	142	Resp:	70498
Ion Ratio	Lower	Upper	
142	100		
141	91.5	71.3	106.9
115	33.1	27.1	40.7





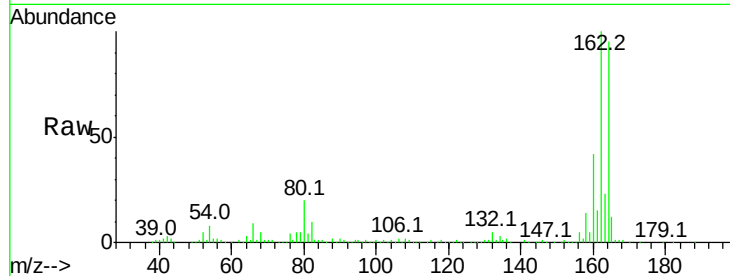
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.49 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

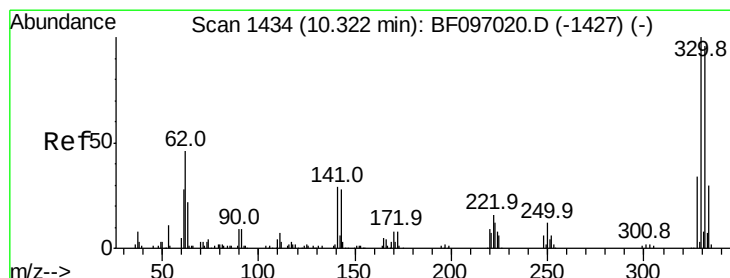
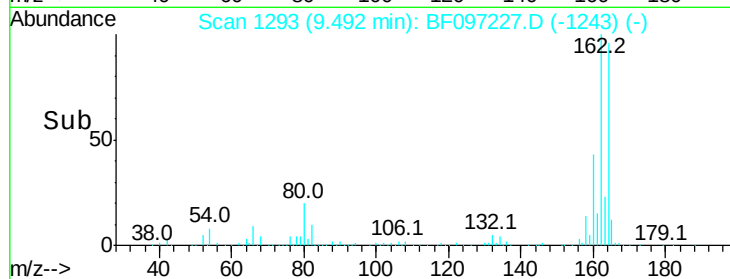
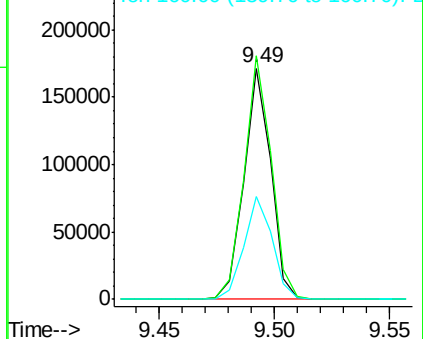
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.3	82.6	123.8	
160	44.4	36.2	54.2	

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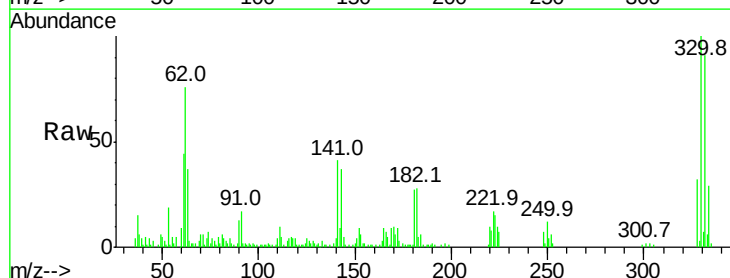


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

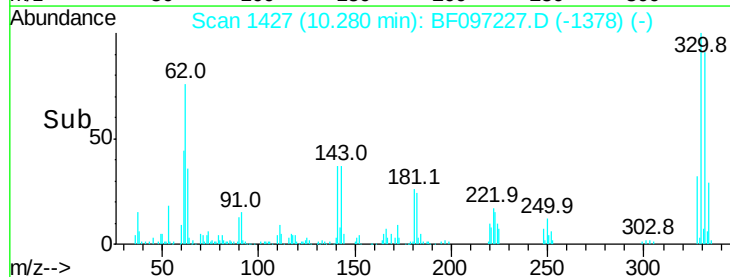
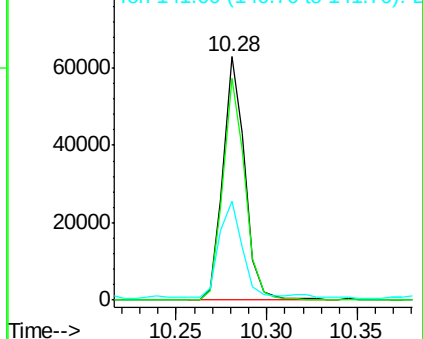


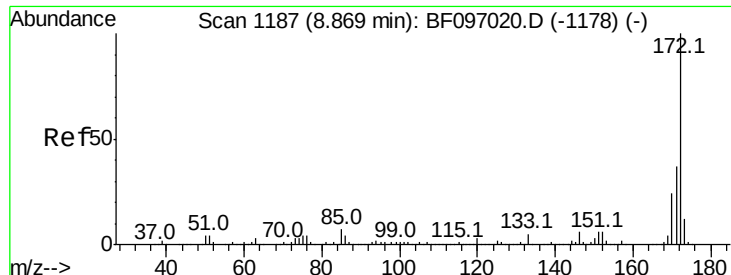
#41
2,4,6-Tribromophenol
Concen: 48.138 ng
RT: 10.28 min Scan# 1427
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	91.1	76.6	115.0	
141	41.2	31.4	47.2	



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





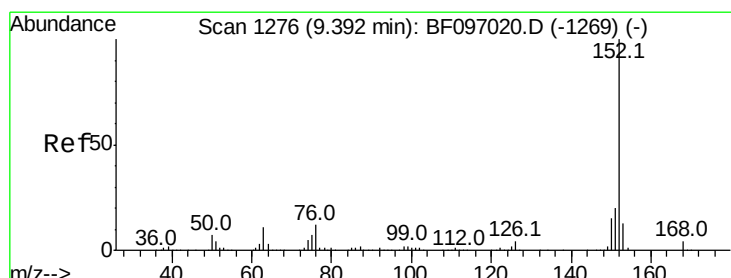
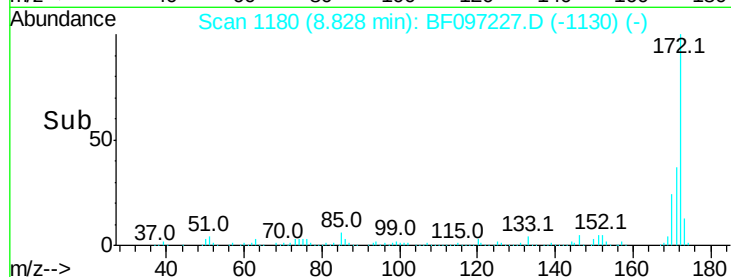
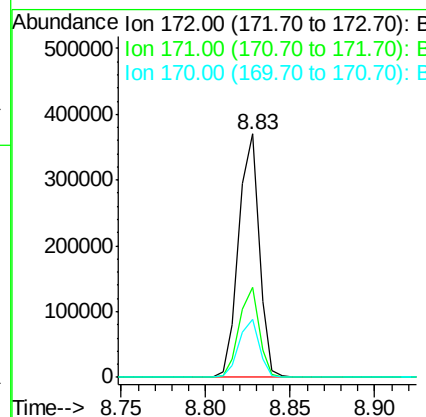
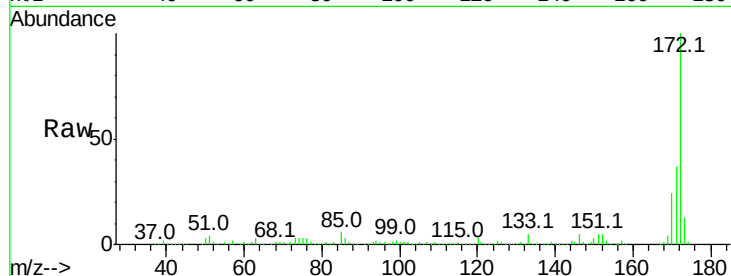
#44
 2-Fluorobiphenyl
 Concen: 38.008 ng
 RT: 8.83 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: BF097227.D
 Acq: 1 Aug 2017 12:42

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-DDL

Tot Ion:	172	Resp:	311918
Ion Ratio	Lower	Upper	
172	100		
171	36.7	29.6	44.4
170	23.6	19.8	29.8

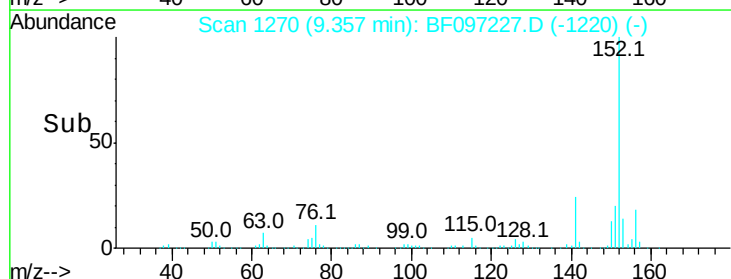
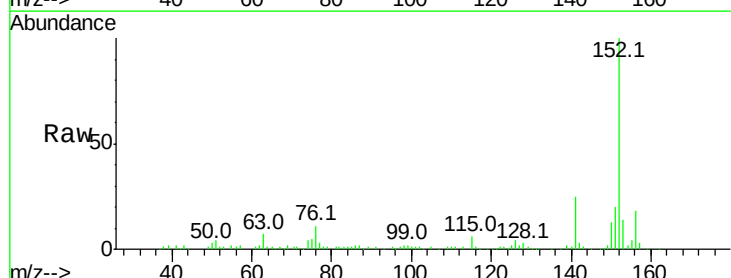
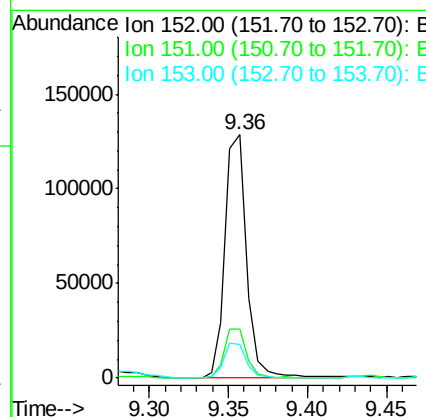
Manual Integrations
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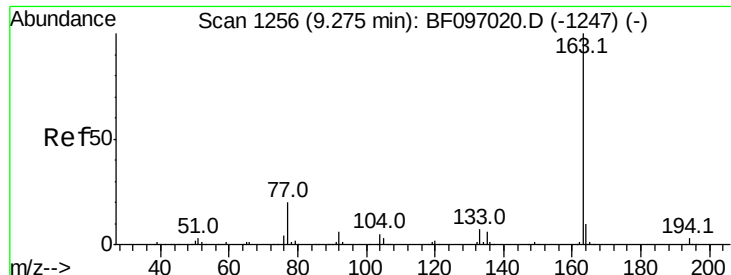
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 8/2/2017 7:15:14 PM



#48
 Acenaphthylene
 Concen: 9.105 ng
 RT: 9.36 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: BF097227.D
 Acq: 1 Aug 2017 12:42

Tgt Ion:	152	Resp:	122345
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.8	25.2
153	14.0	10.8	16.2





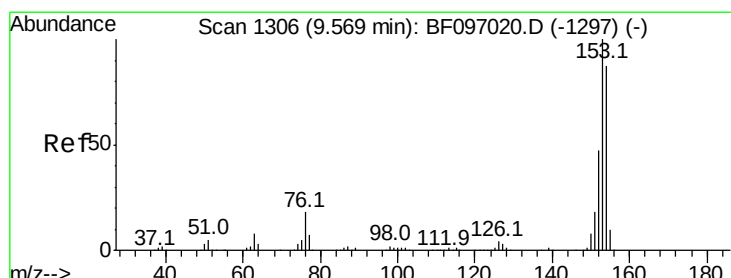
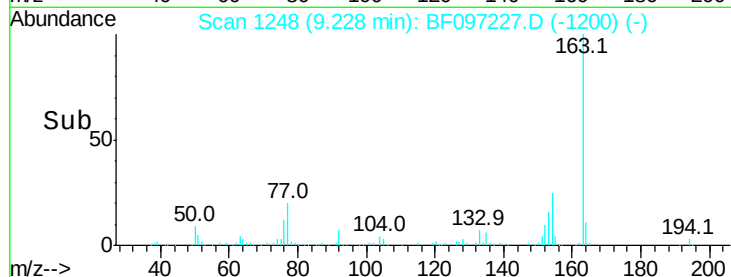
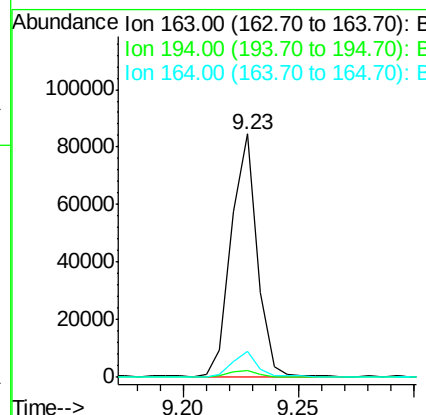
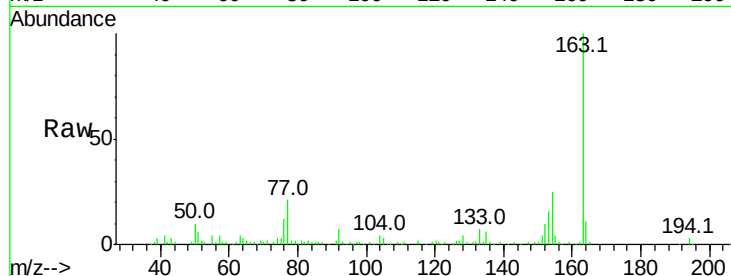
#49
Dimethylphthalate
Concen: 6.271 ng
RT: 9.23 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion:	163	Resp:	66327
Ion Ratio	Lower	Upper	
163	100		
194	2.7	2.6	4.0
164	10.8	8.4	12.6

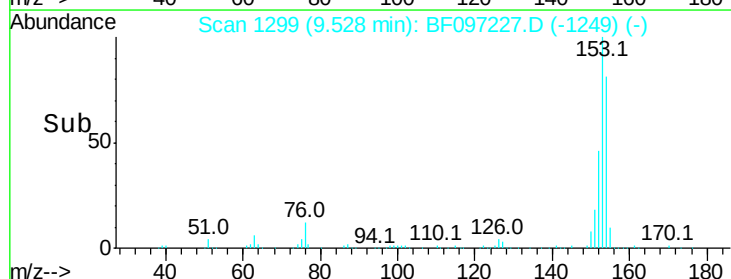
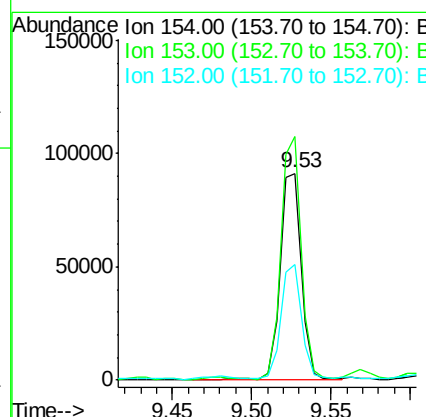
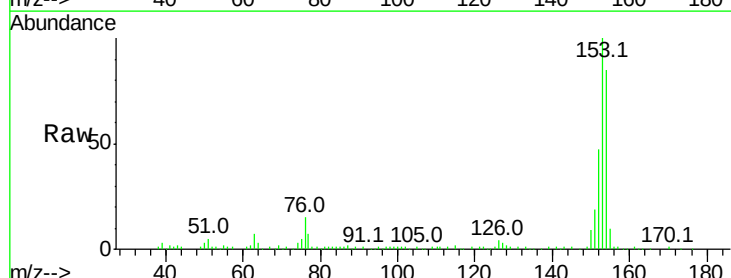
Manual Integrations
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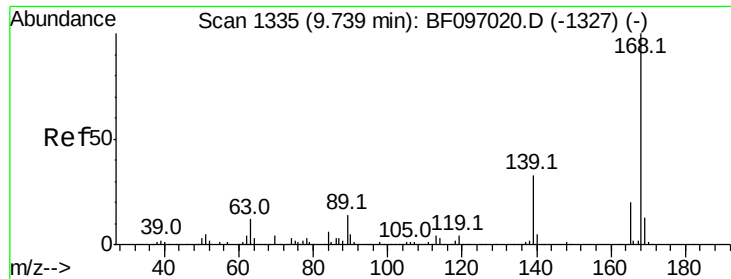
Sohil
8/2/2017 7:15:14 PM



#51
Acenaphthene
Concen: 10.868 ng
RT: 9.53 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion:	154	Resp:	86020
Ion Ratio	Lower	Upper	
154	100		
153	117.6	90.5	135.7
152	55.6	43.6	65.4





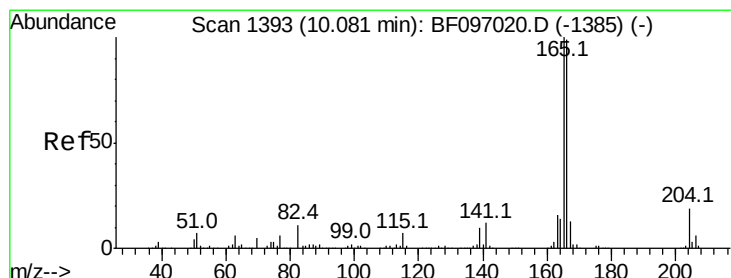
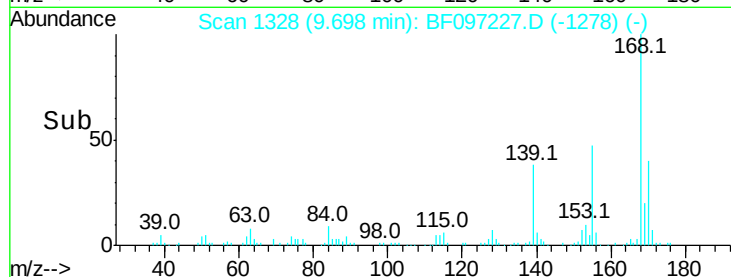
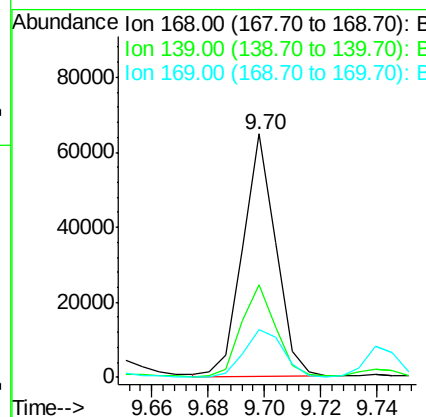
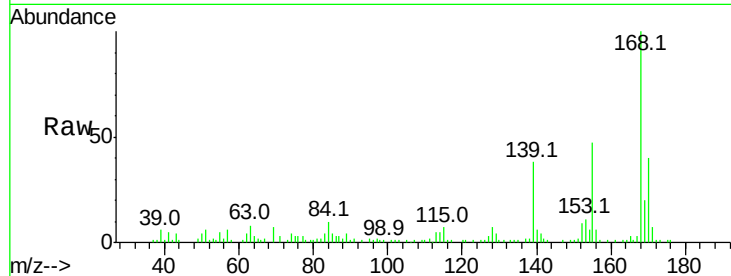
#54
Dibenzenofuran
Concen: 5.008 ng
RT: 9.70 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.8	30.6	45.8
169	19.8	10.8	16.2

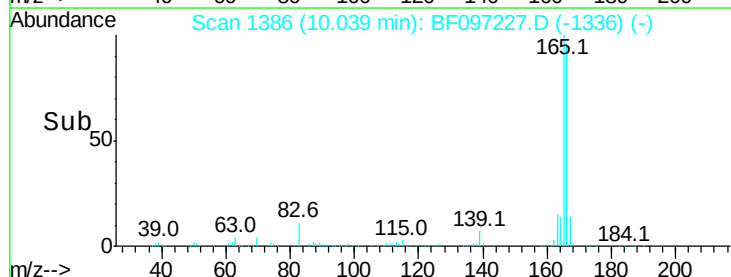
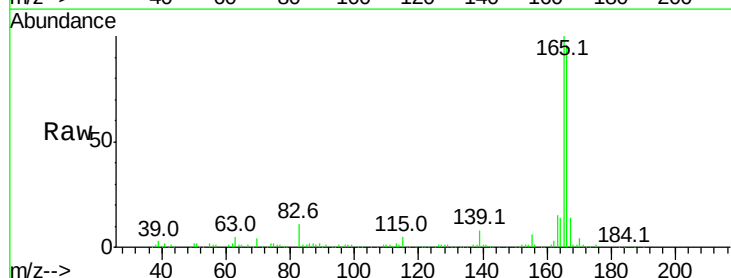
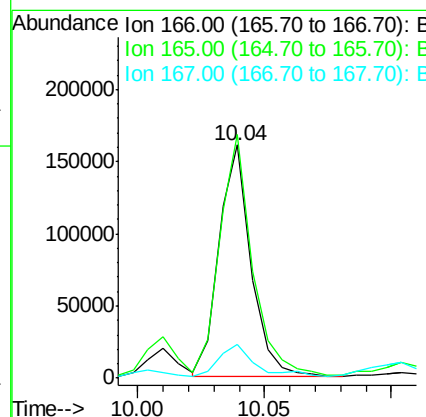
Manual Integrations
APPROVED

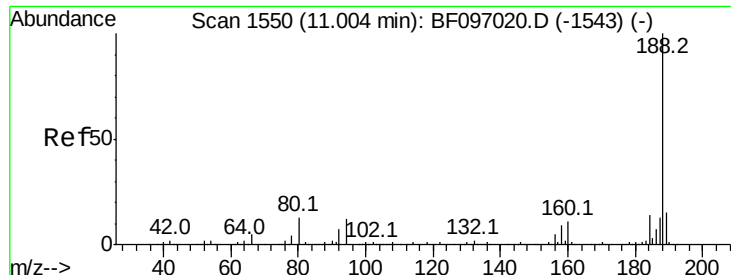
Sohil
8/2/2017 7:15:14 PM



#57
Fluorene
Concen: 17.932 ng
RT: 10.04 min Scan# 1386
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	104.6	78.8	118.2
167	14.5	10.6	16.0





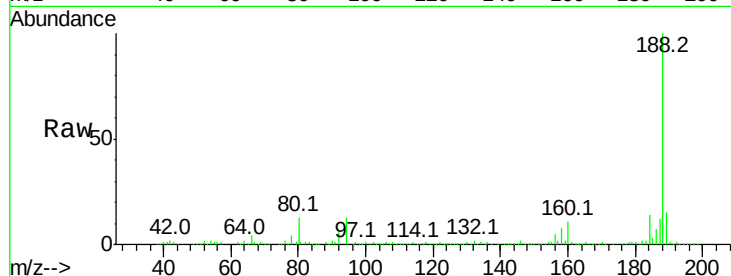
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.97 min Scan# 1544
 Delta R.T. -0.01 min
 Lab File: BF097227.D
 Acq: 1 Aug 2017 12:42

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-DDL

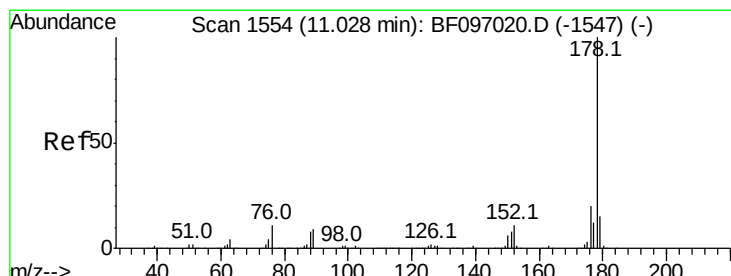
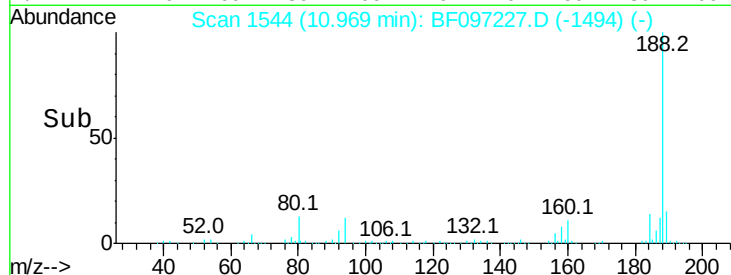
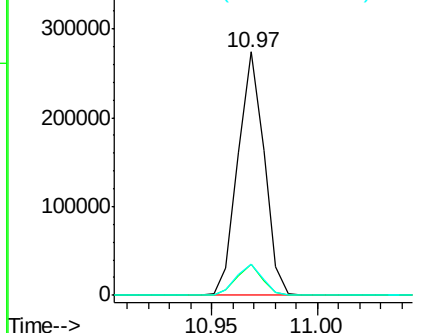
Tot Ion:188	Resp:	235629
Ion Ratio	Lower	Upper
188 100		
94 12.6	9.4	14.2
80 12.7	10.2	15.2

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 8/2/2017 7:15:14 PM

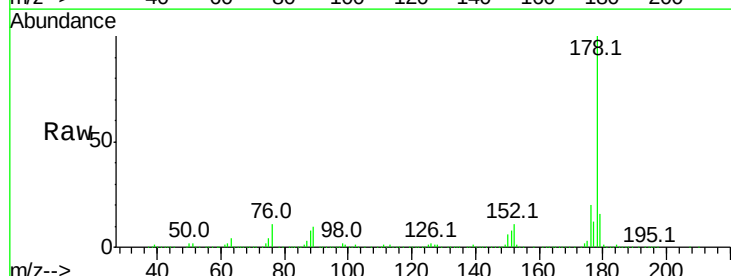


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

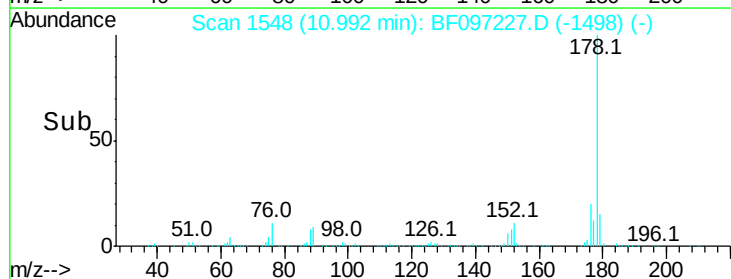
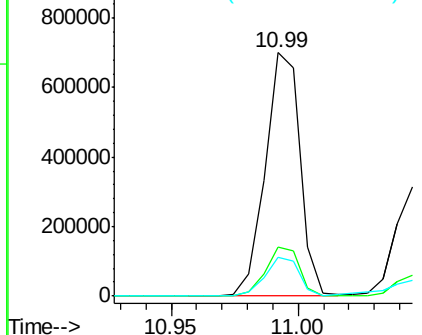


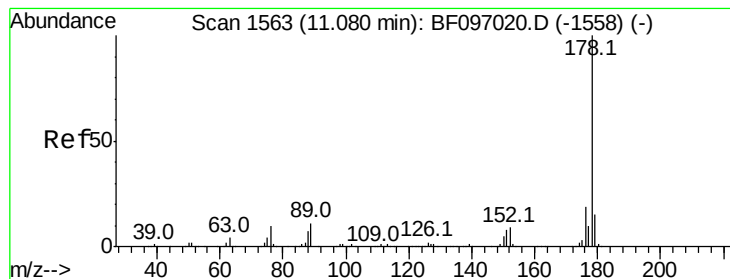
#70
 Phenanthrene
 Concen: 53.439 ng
 RT: 10.99 min Scan# 1548
 Delta R.T. -0.01 min
 Lab File: BF097227.D
 Acq: 1 Aug 2017 12:42

Tgt Ion:178	Resp:	674670
Ion Ratio	Lower	Upper
178 100		
176 20.1	16.2	24.4
179 16.0	12.6	19.0



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





#71

Anthracene

Concen: 19.477 ng

RT: 11.05 min Scan# 1557

Delta R.T. -0.01 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-DDL

Tot Ion:178 Resp: 251849

Ion Ratio Lower Upper

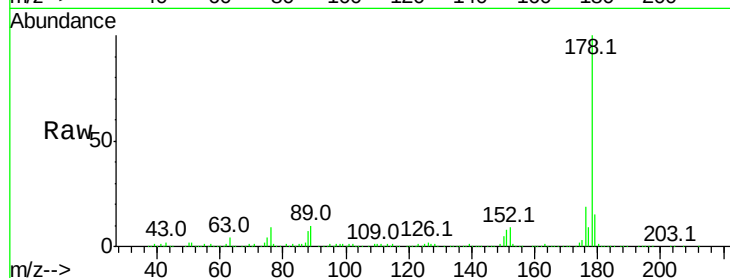
178 100

176 18.6 15.8 23.8

179 14.8 12.7 19.1

Manual Integrations
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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

800000

600000

400000

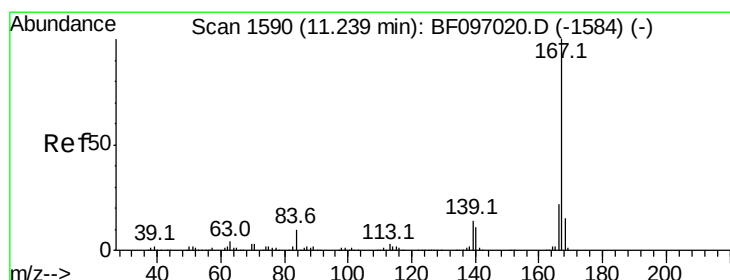
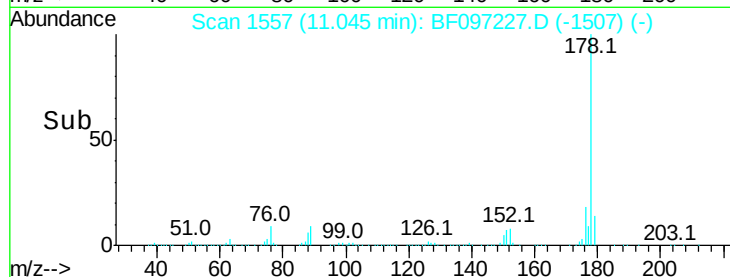
200000

0

11.00

11.05

Time-->



#72

Carbazole

Concen: 2.474 ng

RT: 11.21 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

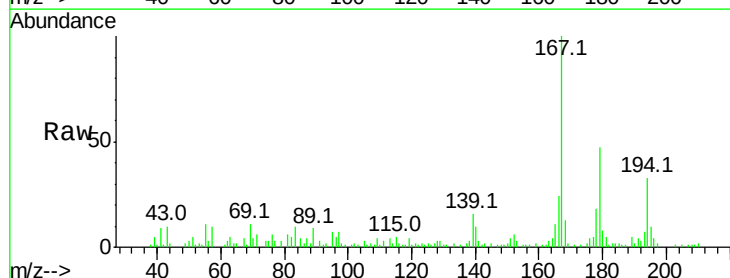
Tgt Ion:167 Resp: 31461

Ion Ratio Lower Upper

167 100

166 23.9 18.1 27.1

139 16.0 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

40000

30000

20000

10000

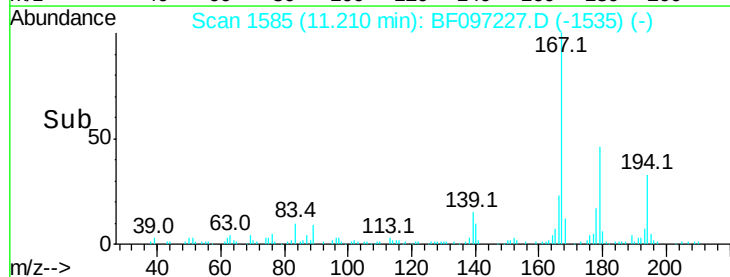
0

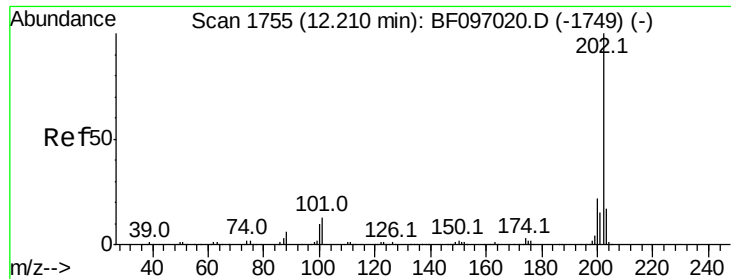
11.15

11.20

11.25

Time-->





#74

Fluoranthene

Concen: 64.365 ng

RT: 12.18 min Scan# 1750

Delta R.T. 0.00 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Instrument :

BNA_F

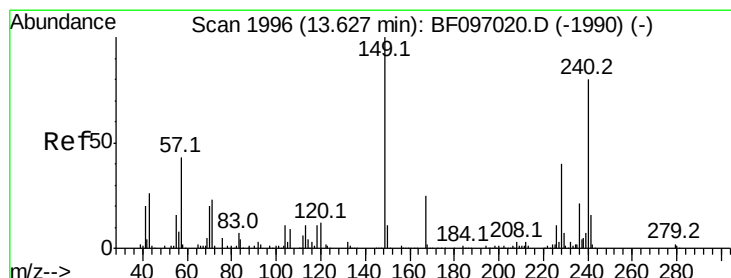
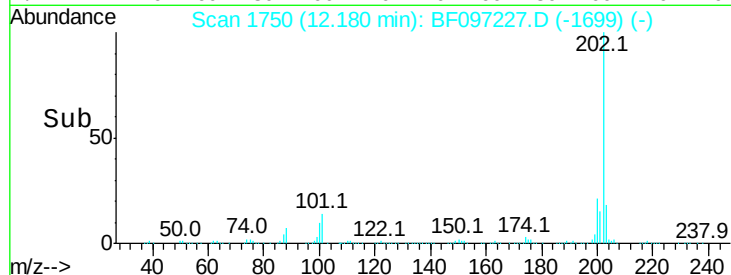
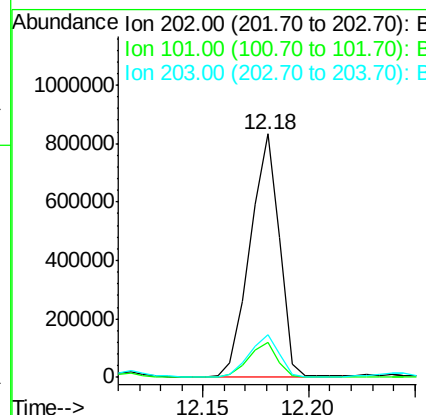
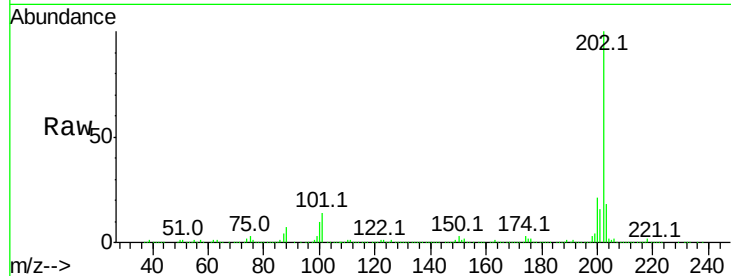
ClientSampleId :

CL-02-072717-DDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	14.3	0.0	33.2		
203	17.8	0.0	38.1		

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

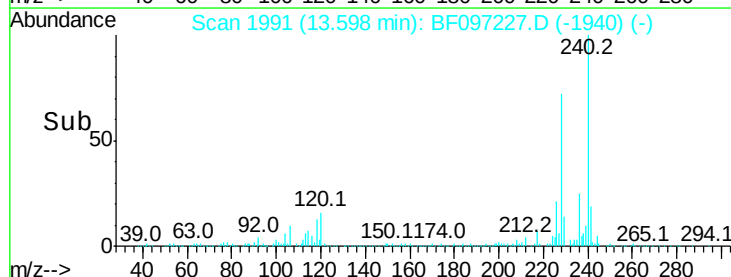
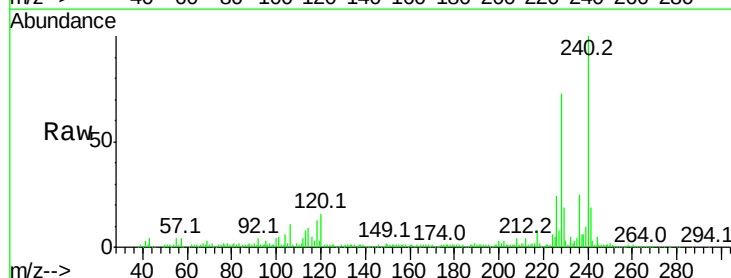
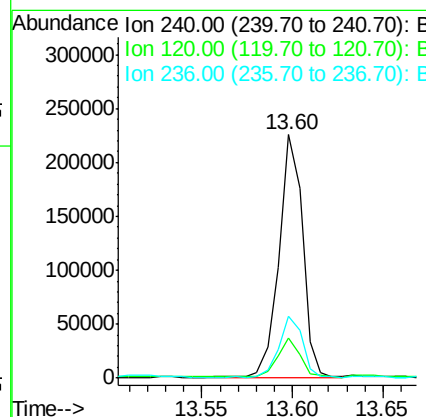
RT: 13.60 min Scan# 1991

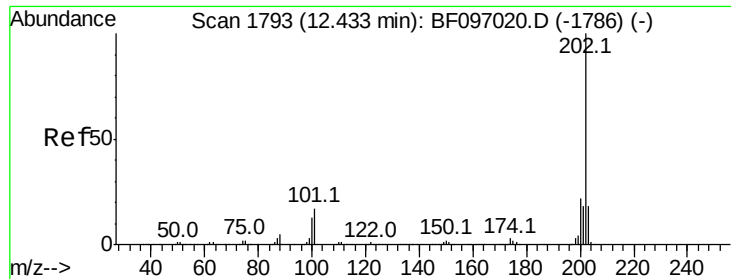
Delta R.T. 0.00 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	16.3	5.8	8.8#		
236	25.4	20.5	30.7		





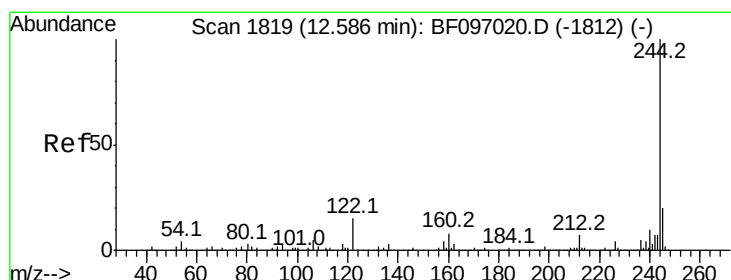
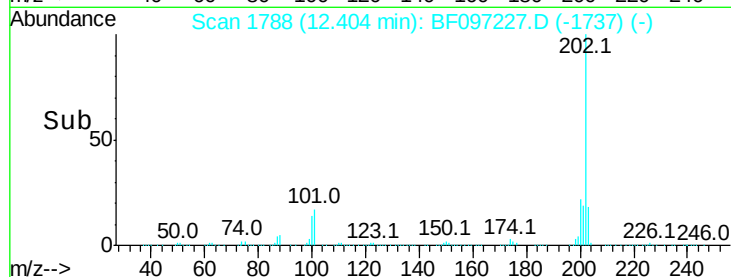
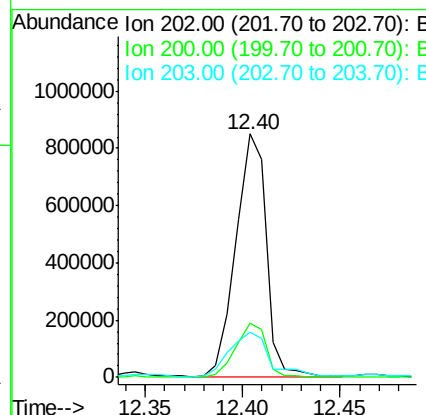
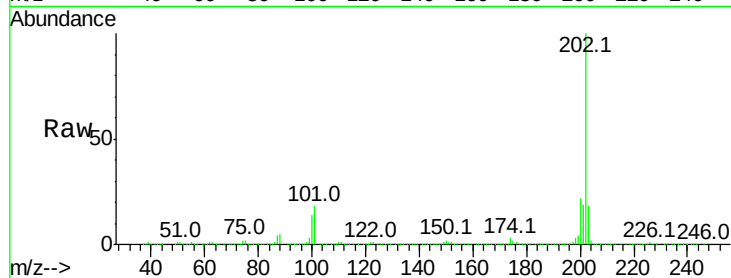
#77
Pvrene
Concen: 55.316 ng
RT: 12.40 min Scan# 1788
Delta R.T. 0.00 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.2	17.6	26.4
203	18.4	14.4	21.6

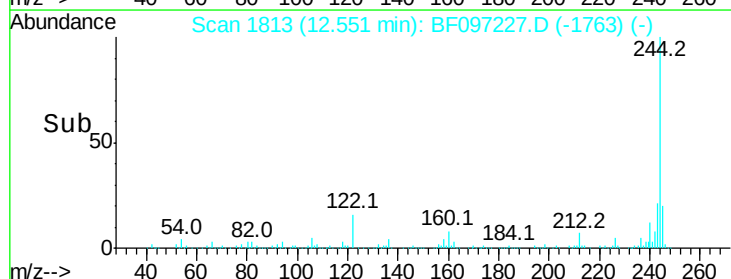
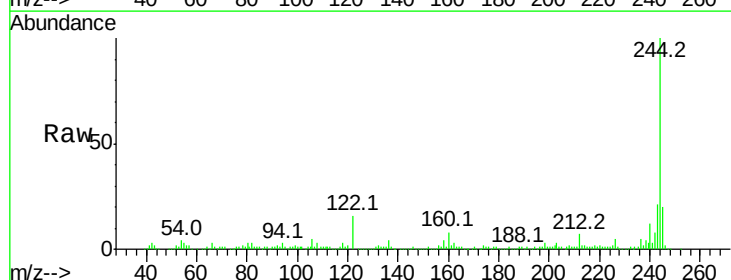
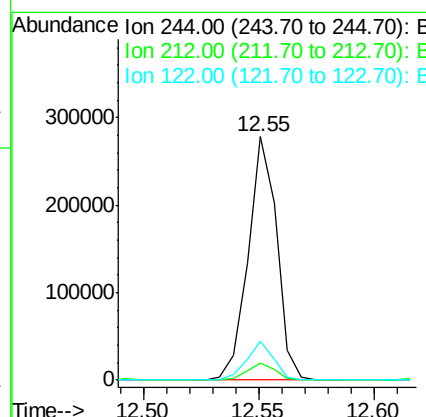
Manual Integrations
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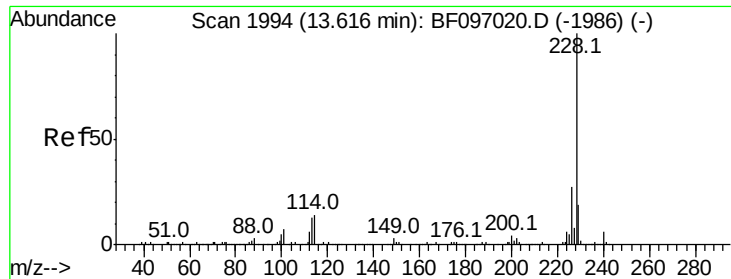
Sohil
8/2/2017 7:15:14 PM



#78
Terphenyl-d14
Concen: 24.242 ng
RT: 12.55 min Scan# 1813
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.9	6.0	9.0
122	16.1	10.3	15.5#





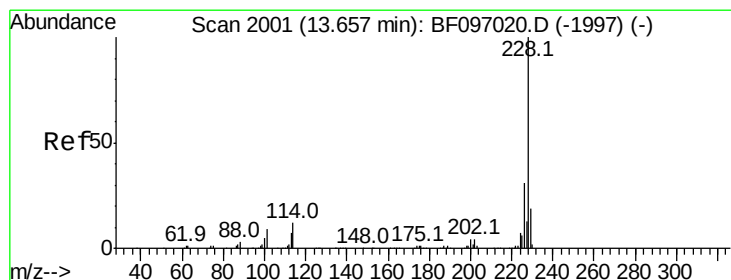
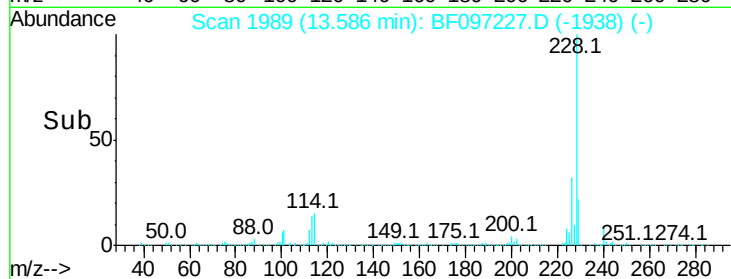
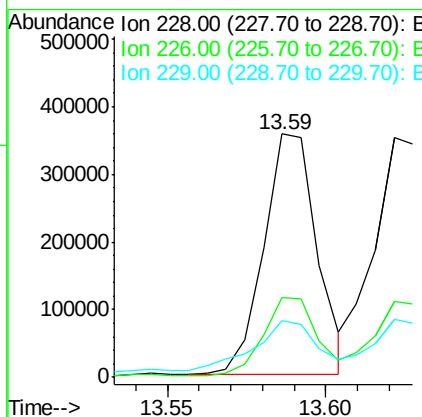
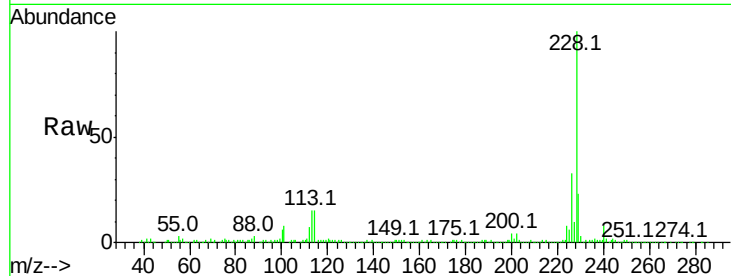
#80
Benzo(a)anthracene
Concen: 31.764 ng
RT: 13.59 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.0	22.6	33.8
229	23.1	16.3	24.5

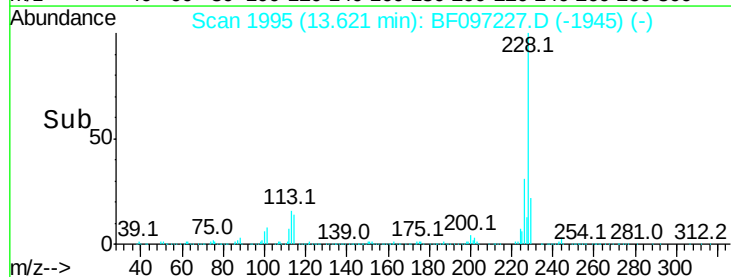
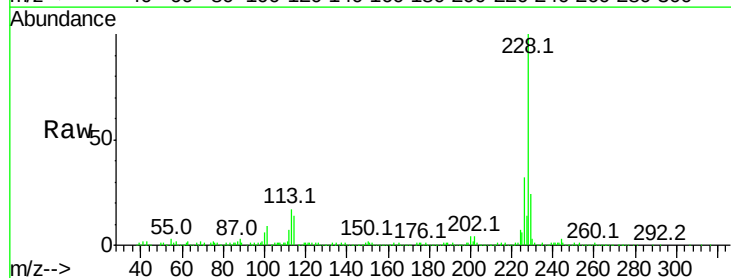
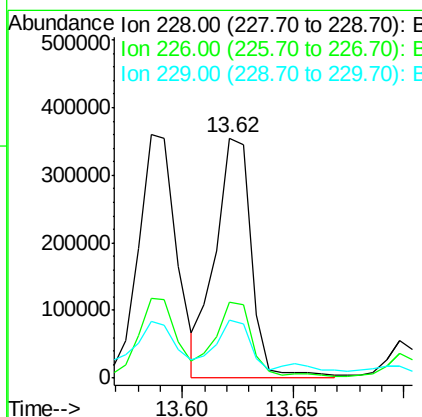
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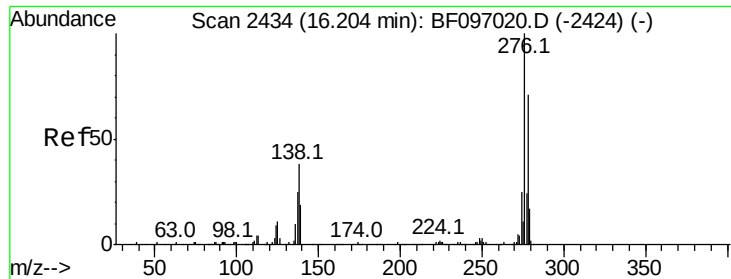
Sohil
8/2/2017 7:15:14 PM



#82
Chrysene
Concen: 31.218 ng m
RT: 13.62 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	23.9	15.8	23.6#





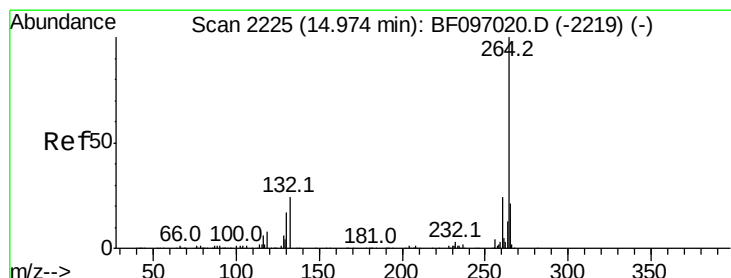
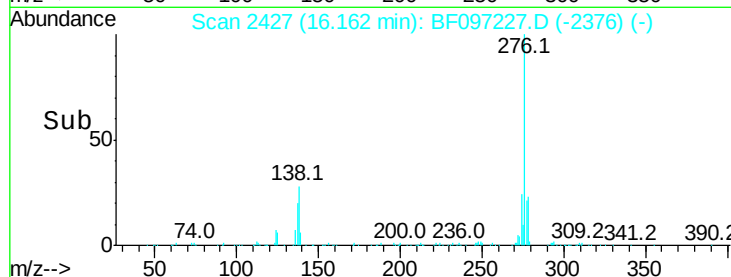
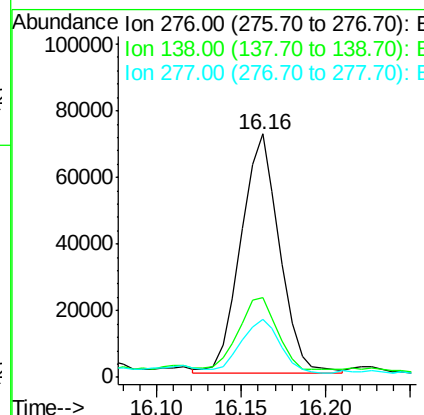
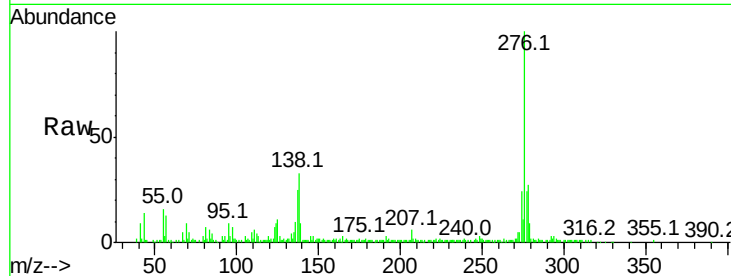
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.344 ng
 RT: 16.16 min Scan# 2427
 Delta R.T. 0.00 min
 Lab File: BF097227.D
 Acq: 1 Aug 2017 12:42

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-DDL

Tot Ion	Ratio	Resp	Lower	Upper
276	100	113926		
138	30.1	27.8	41.6	
277	23.5	20.2	30.4	

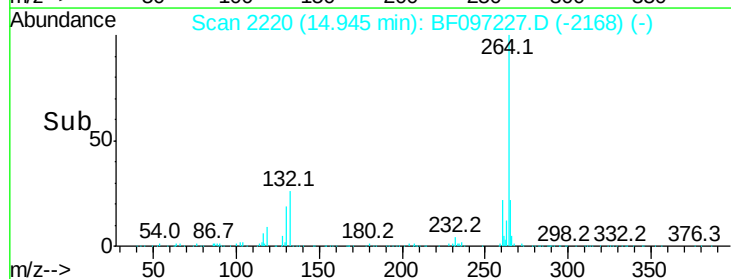
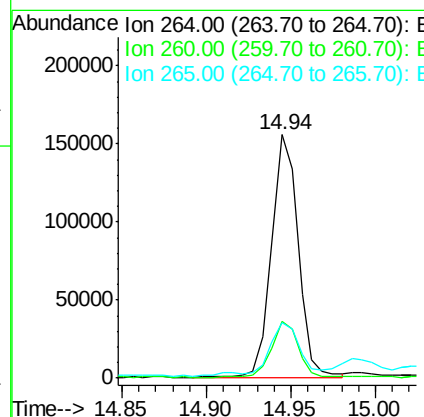
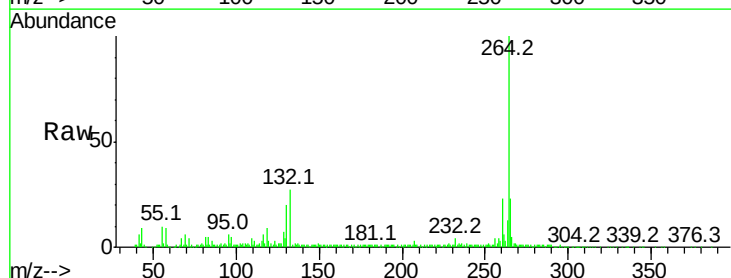
Manual Integrations
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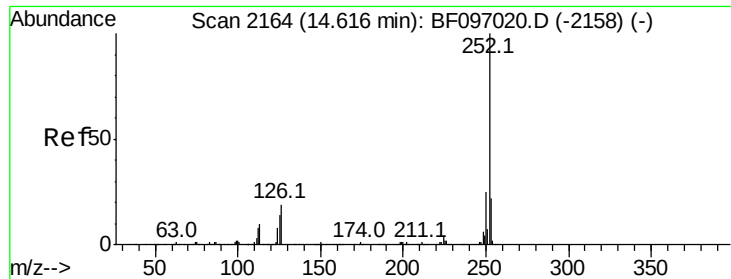
Sohil
 8/2/2017 7:15:14 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.94 min Scan# 2220
 Delta R.T. 0.01 min
 Lab File: BF097227.D
 Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	169649		
260	23.1	19.5	29.3	
265	23.0	17.2	25.8	





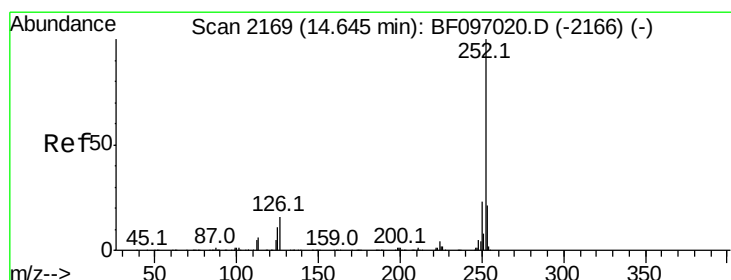
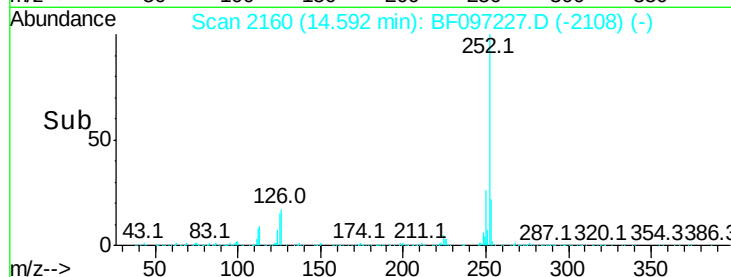
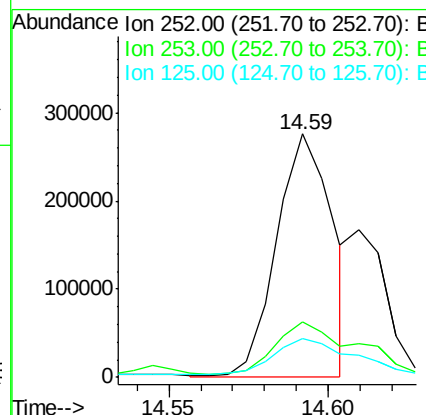
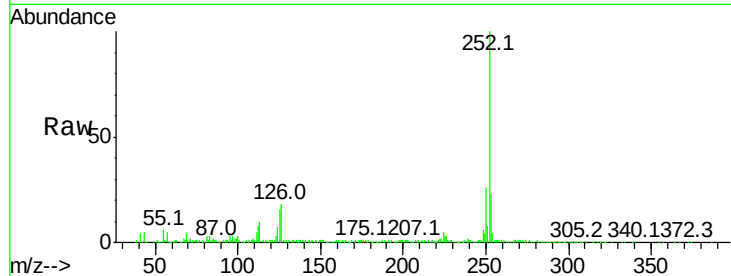
#87
Benzo(b)fluoranthene
Concen: 33.231 ng m
RT: 14.59 min Scan# 2160
Delta R.T. 0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	15.9	9.8	14.8

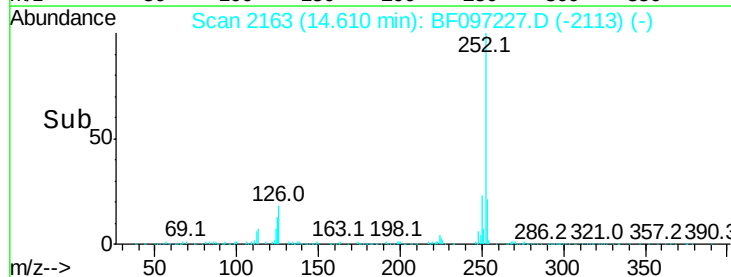
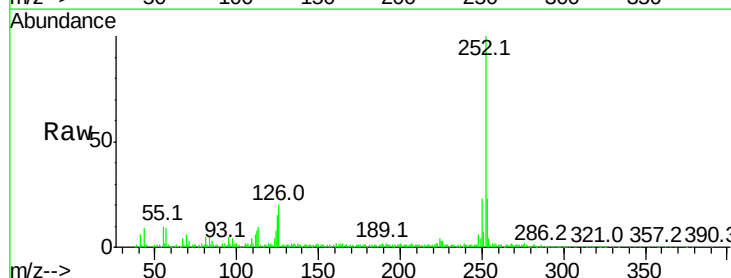
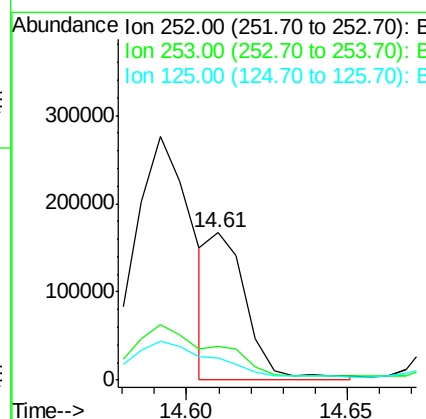
Manual Integrations
APPROVED

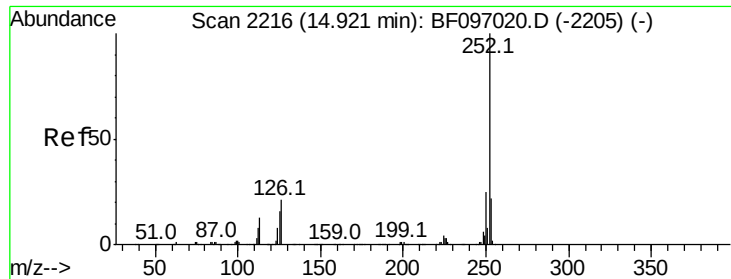
Sohil
8/2/2017 7:15:14 PM



#88
Benzo(k)fluoranthene
Concen: 14.036 ng m
RT: 14.61 min Scan# 2163
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	15.5	13.1	19.7





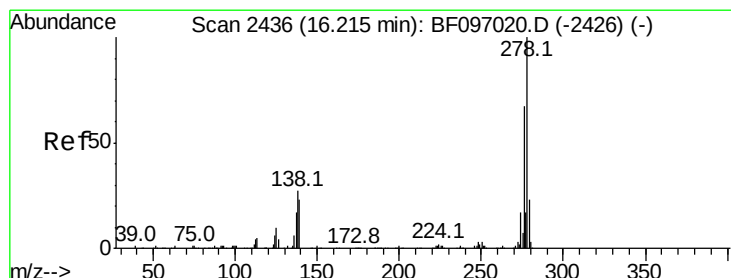
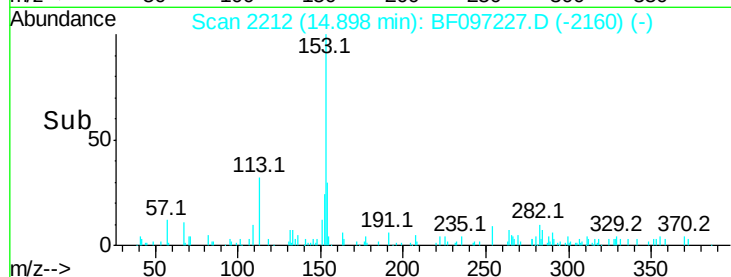
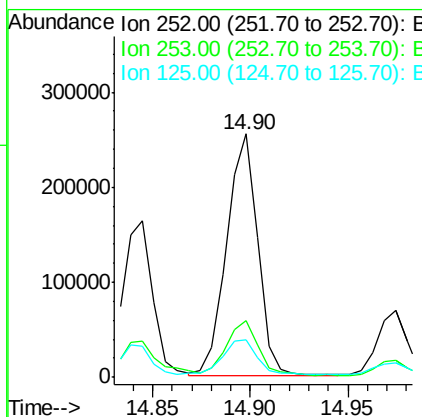
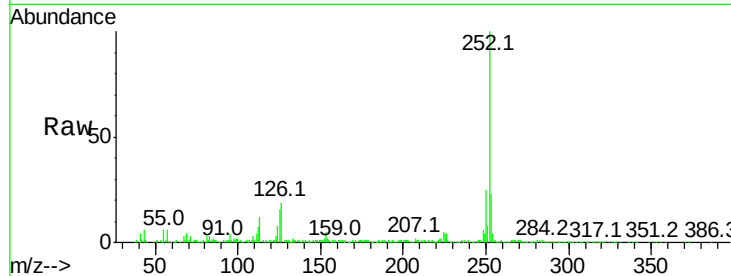
#89
Benzo(a)pyrene
Concen: 30.026 ng
RT: 14.90 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-DDL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	280241		
253	23.4		17.5	26.3
125	15.6		11.0	16.4

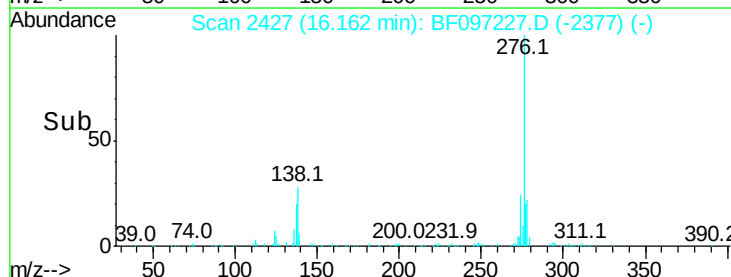
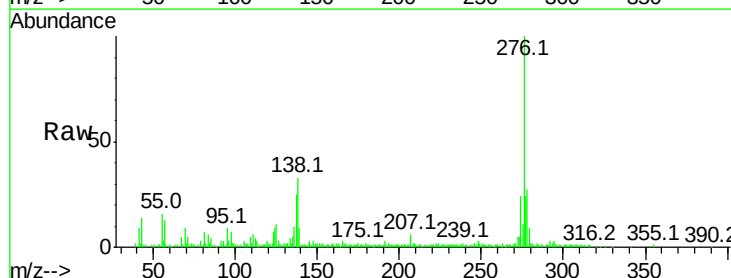
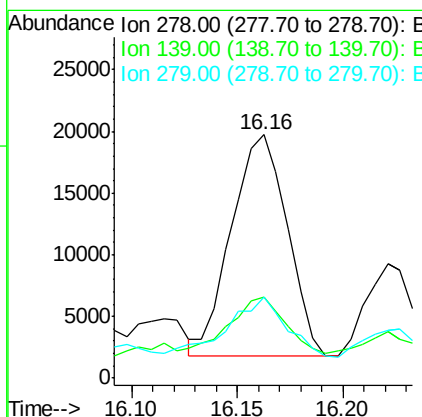
Manual Integrations
APPROVED

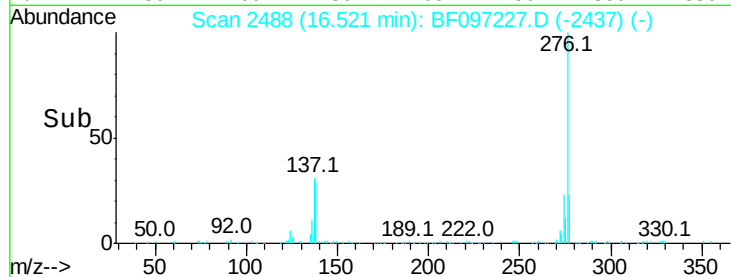
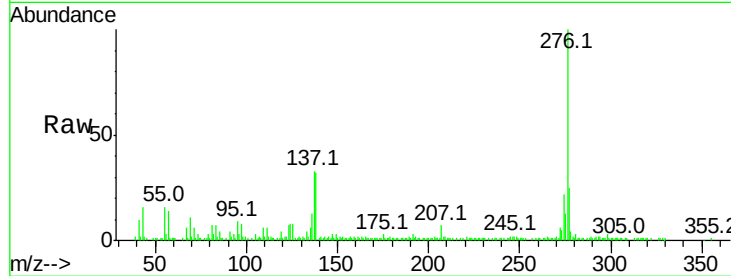
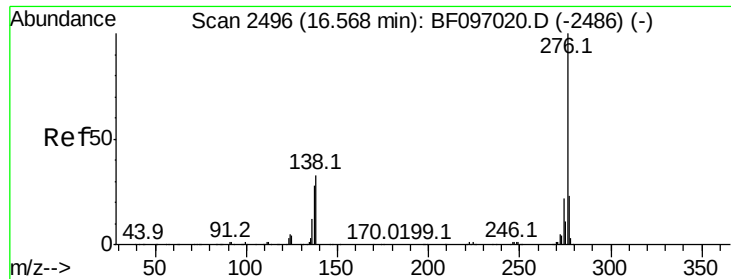
Sohil
8/2/2017 7:15:14 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.288 ng
RT: 16.16 min Scan# 2427
Delta R.T. -0.01 min
Lab File: BF097227.D
Acq: 1 Aug 2017 12:42

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	32816		
139	33.2		16.6	24.8#
279	33.2		19.3	28.9#





#91

Benzo(a,h,i)perylene

Concen: 13.779 ng

RT: 16.52 min Scan# 2488

Delta R.T. 0.00 min

Lab File: BF097227.D

Acq: 1 Aug 2017 12:42

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-DDL

Tot Ion:	276	Resp:	110594
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.6	28.0
138	31.9	25.4	38.0

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:14 PM

