

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097222.D
 Acq On : 31 Jul 2017 21:51
 Operator : SJ/JU
 Sample : I4471-24
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-L7-BASE

Manual Integrations
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Quant Time: Aug 01 12:13:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	141894	20.00	ng	-0.02
21) Naphthalene-d8	7.76	136	572415	20.00	ng	-0.02
38) Acenaphthene-d10	9.51	164	221508	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	284932	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	219609	20.00	ng	0.00
86) Perylene-d12	14.97	264	160534	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.10	112	812802	86.35	ng	0.00
7) Phenol-d6	6.16	99	1070267	99.60	ng	0.00
23) Nitrobenzene-d5	7.05	82	638998	65.49	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	132124	75.49	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	917944	70.33	ng	-0.02
78) Terphenyl-d14	12.57	244	514019	47.72	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.17	94	64682	5.075	ng	92
11) bis(2-Chloroethyl)ether	6.22	93	28134	2.791	ng	95
13) 1,4-Dichlorobenzene	6.50	146	33562	3.122	ng	95
14) 1,2-Dichlorobenzene	6.65	146	44836	4.777	ng	97
31) Naphthalene	7.79	128	146479	5.429	ng	99
37) 2-Methylnaphthalene	8.47	142	161343	9.444	ng	97
49) Dimethylphthalate	9.25	163	266478	15.842	ng	99
51) Acenaphthene	9.54	154	57077	4.534	ng	99
54) Dibenzofuran	9.72	168	36806	2.195	ng	# 82
57) Fluorene	10.06	166	46441	3.685	ng	# 96
70) Phenanthrene	11.02	178	432808	28.350	ng	99
71) Anthracene	11.06	178	139092	8.895	ng	96
74) Fluoranthene	12.20	202	588895	39.375	ng	99
77) Pyrene	12.42	202	585541	32.569	ng	99
80) Benzo(a)anthracene	13.61	228	269857	18.991	ng	96
82) Chrysene	13.64	228	243100	17.520	ng	96
85) Indeno(1,2,3-cd)pyrene	16.20	276	99167	8.335	ng	95
87) Benzo(b)fluoranthene	14.62	252	268947m	27.870	ng	
88) Benzo(k)fluoranthene	14.63	252	80256m	8.728	ng	
89) Benzo(a)pyrene	14.92	252	196603	22.260	ng	97
90) Dibenzo(a,h)anthracene	16.20	278	26410m	3.646	ng	
91) Benzo(g,h,i)perylene	16.56	276	95852	12.620	ng	99

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

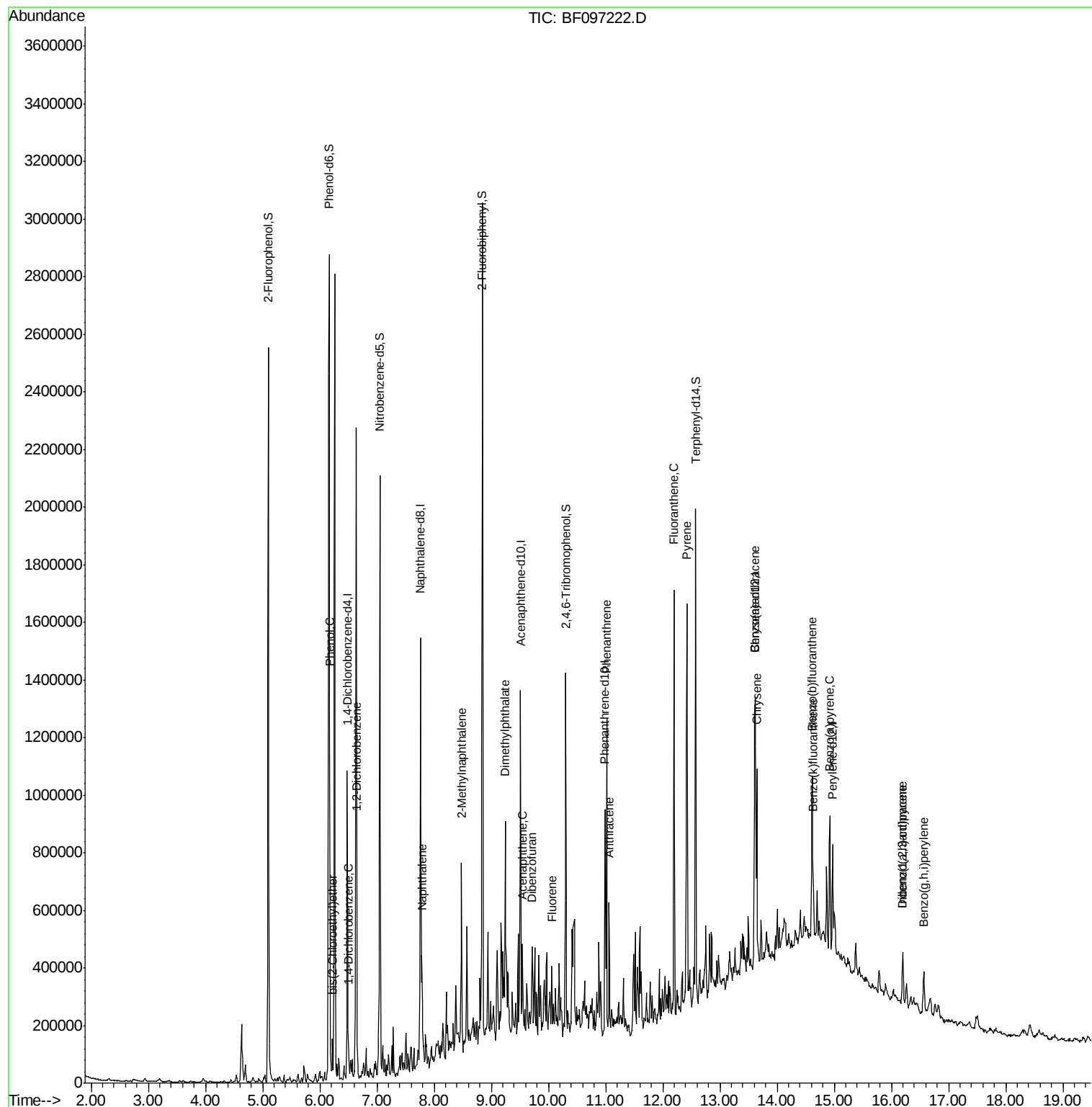
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097222.D
Acq On : 31 Jul 2017 21:51
Operator : SJ/JU
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ALS Vial : 23 Sample Multiplier: 1

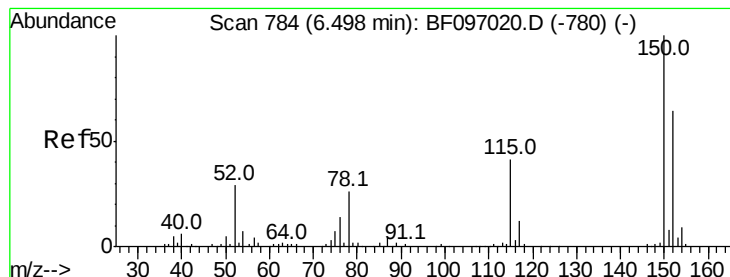
Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Manual Integrations
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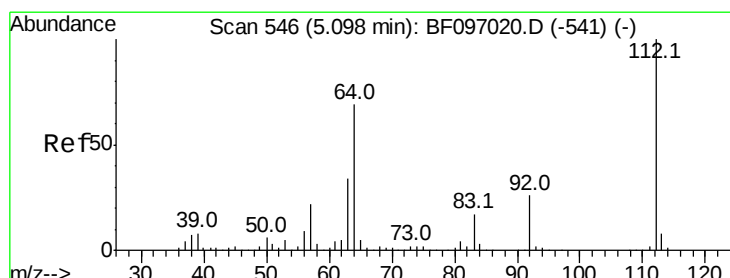
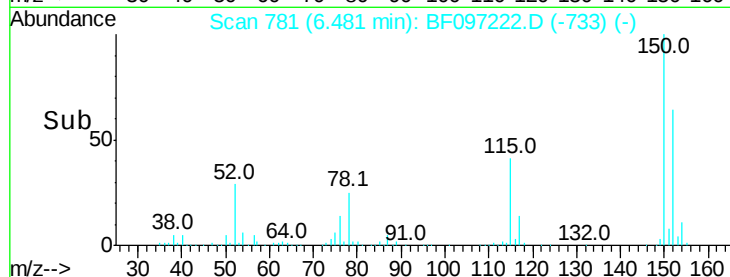
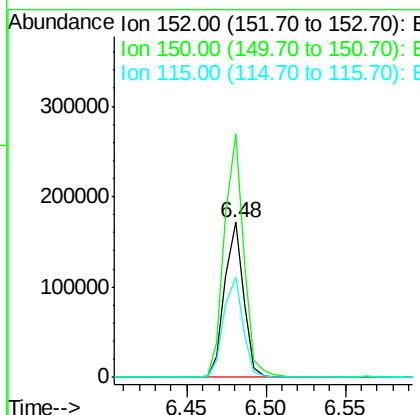
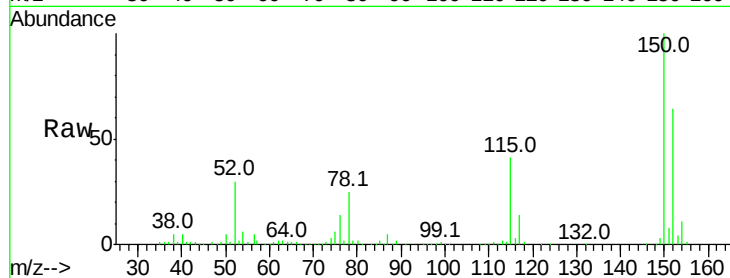
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.48 min Scan# 781
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	64.9	52.2	78.2

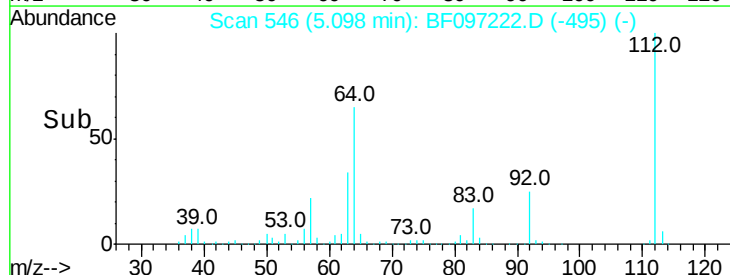
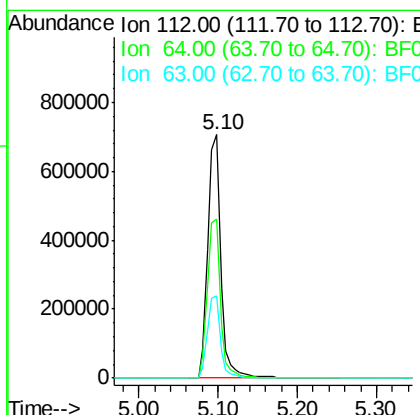
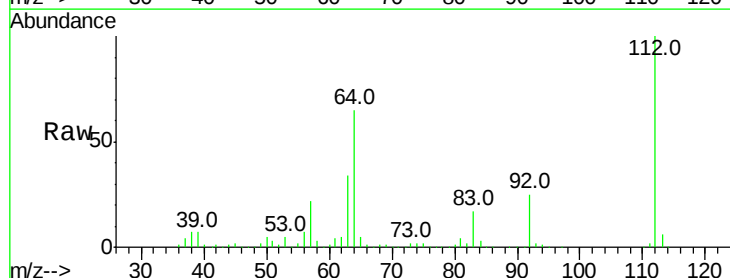
Manual Integrations
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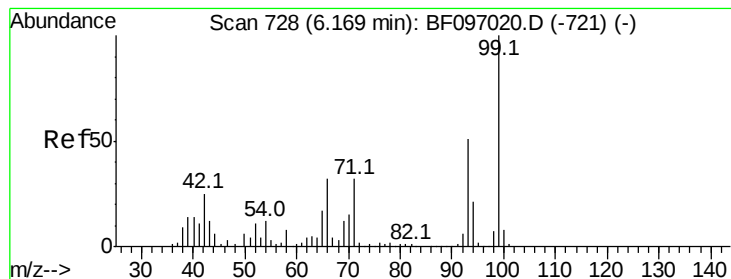
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#5
 2-Fluorophenol
 Concen: 86.352 ng
 RT: 5.10 min Scan# 546
 Delta R.T. 0.00 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.2	46.0	69.0
63	33.7	23.4	35.0





#7

Phenol-d6

Concen: 99.600 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Instrument :

BNA_F

ClientSampleId :

E2-L7-BASE

Tot Ion: 99 Resp: 1070267

Ion Ratio Lower Upper

99 100

42 23.9 13.5 20.3#

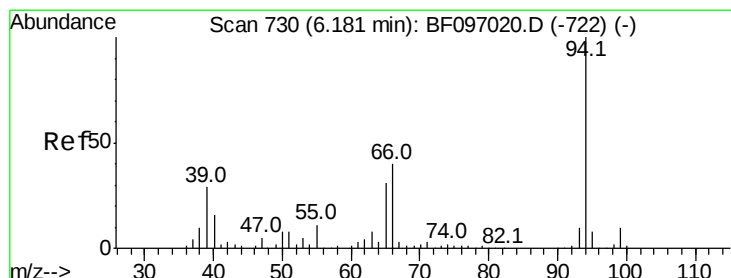
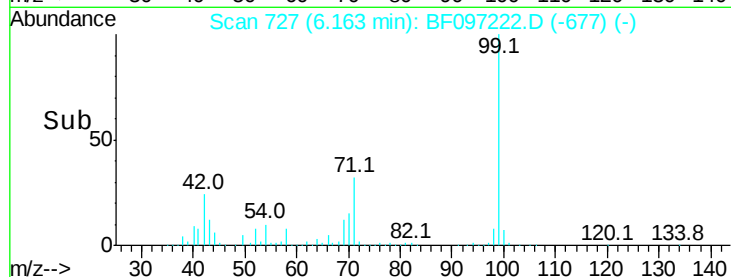
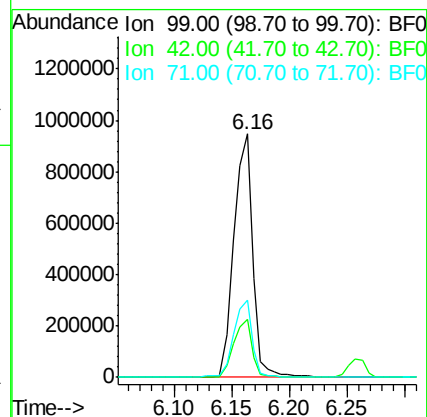
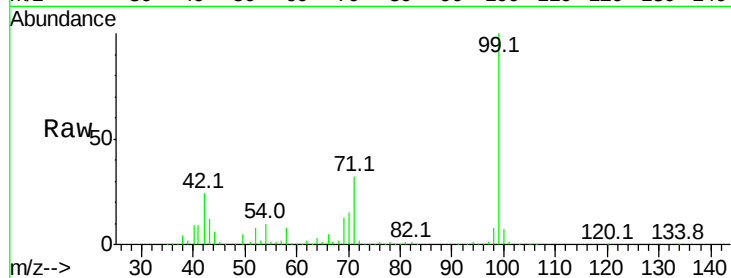
71 31.8 24.5 36.7

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#10

Phenol

Concen: 5.075 ng

RT: 6.17 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

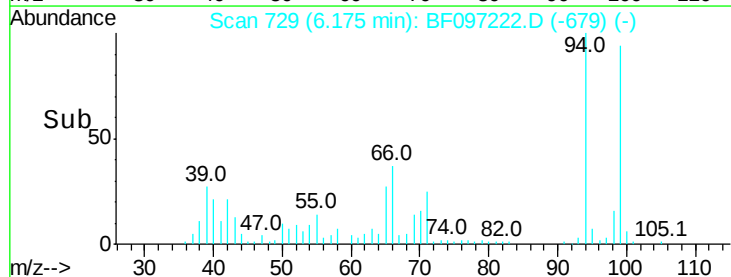
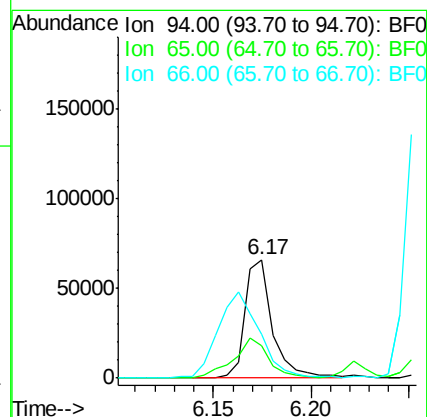
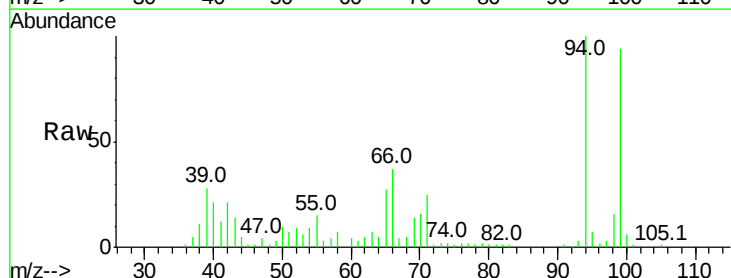
Tgt Ion: 94 Resp: 64682

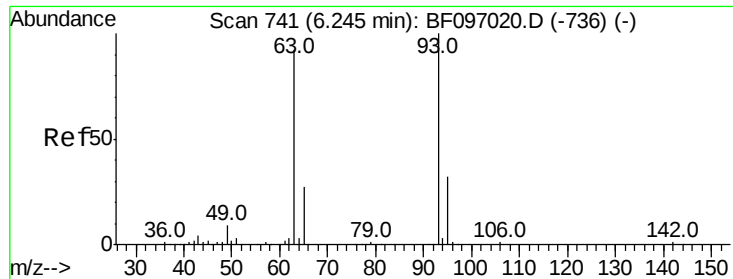
Ion Ratio Lower Upper

94 100

65 27.3 9.9 49.9

66 36.6 23.1 63.1





#11

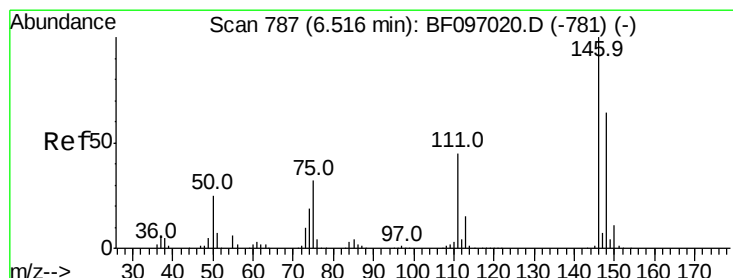
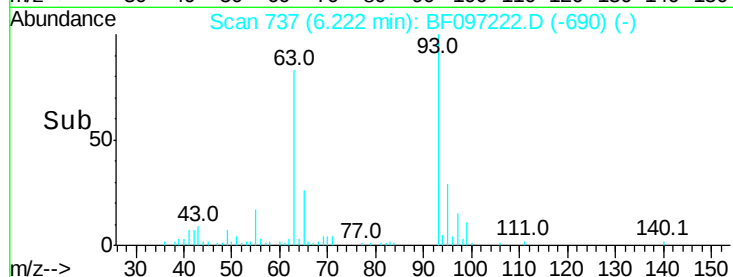
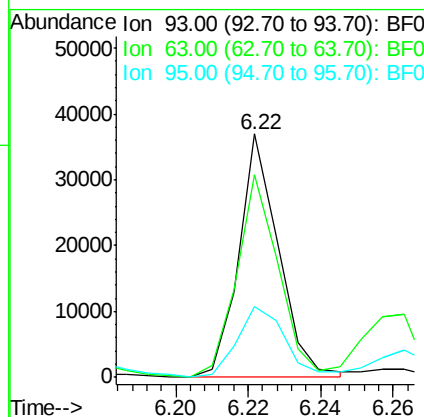
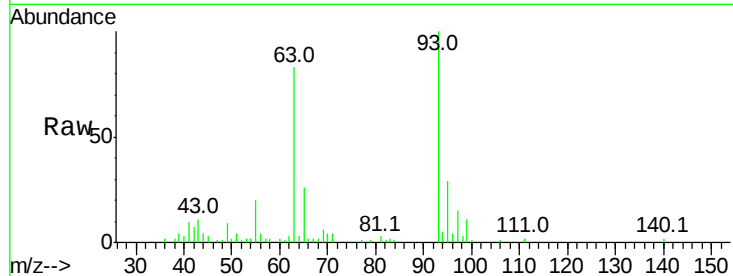
bis(2-Chloroethyl)ether
Concen: 2.791 ng
RT: 6.22 min Scan# 737
Delta R.T. -0.02 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion:	93	Resp:	28134
Ion	Ratio	Lower	Upper
93	100		
63	83.1	59.2	99.2
95	29.2	12.8	52.8

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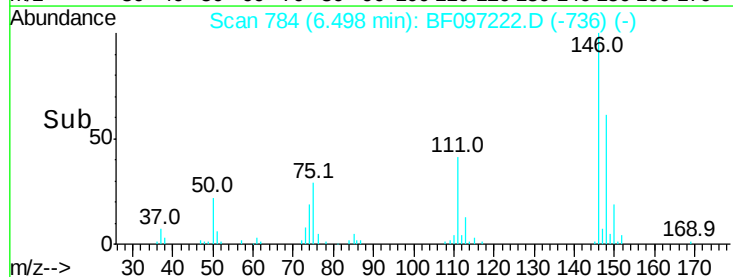
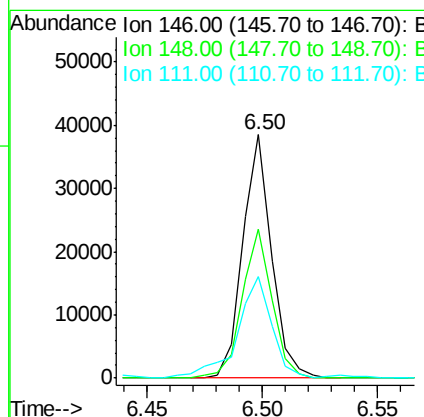
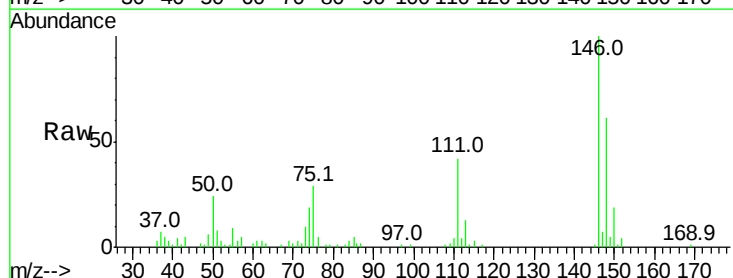
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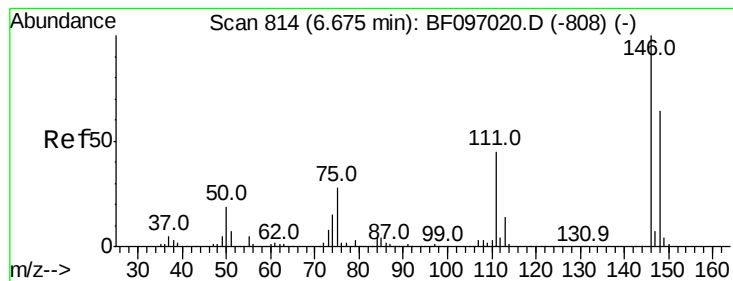


#13

1,4-Dichlorobenzene
Concen: 3.122 ng
RT: 6.50 min Scan# 784
Delta R.T. -0.02 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion:	146	Resp:	33562
Ion	Ratio	Lower	Upper
146	100		
148	61.3	52.2	78.2
111	41.7	30.3	45.5





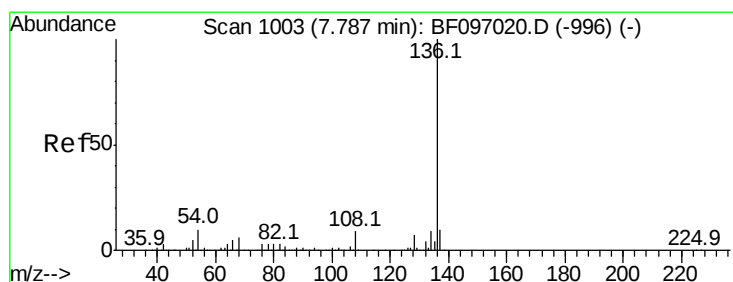
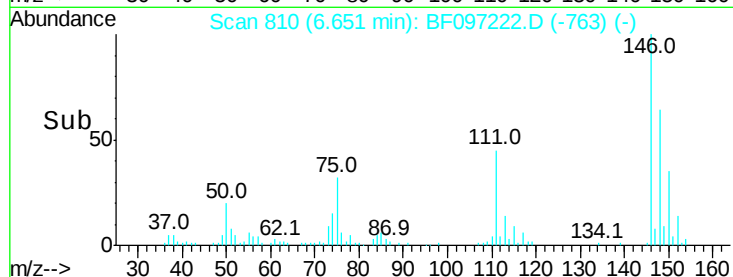
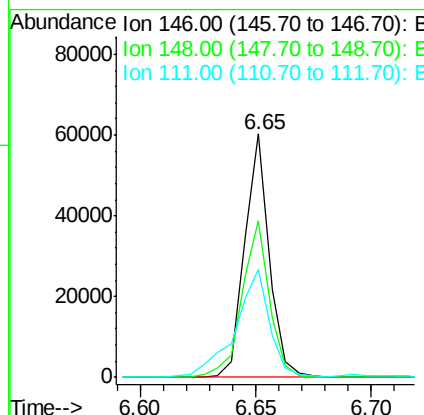
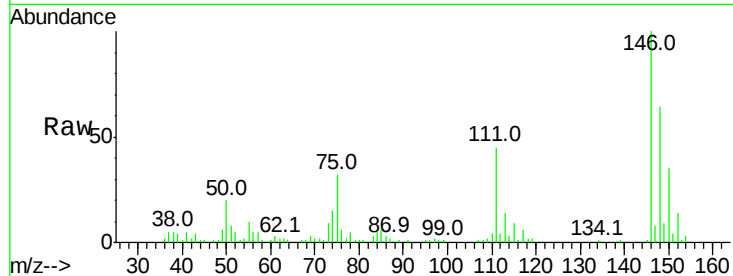
#14
 1,2-Dichlorobenzene
 Concen: 4.777 ng
 RT: 6.65 min Scan# 810
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.4	75.6
111	44.6	38.2	57.4

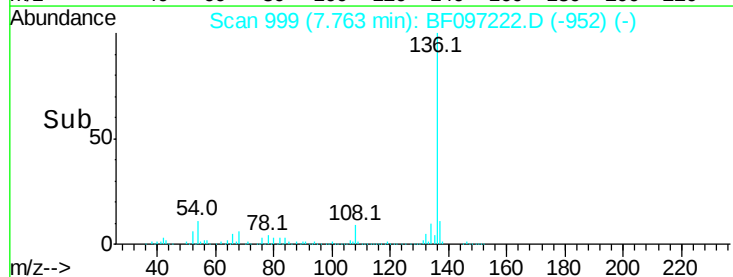
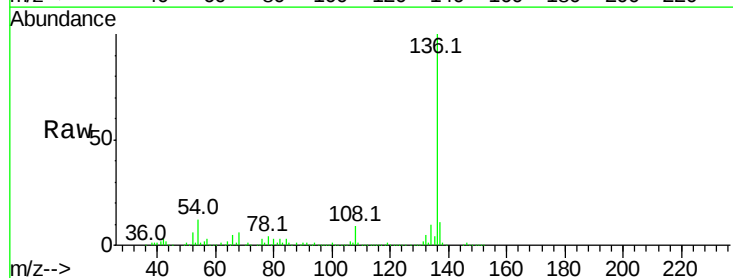
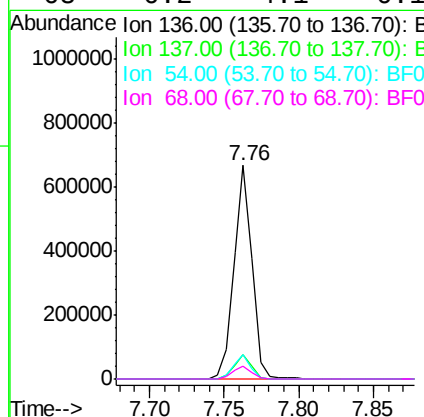
Manual Integrations
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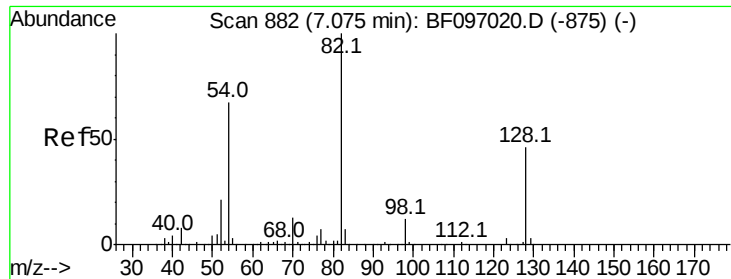
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#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 7.76 min Scan# 999
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.5	12.7
54	11.5	4.9	7.3#
68	6.2	4.1	6.1#





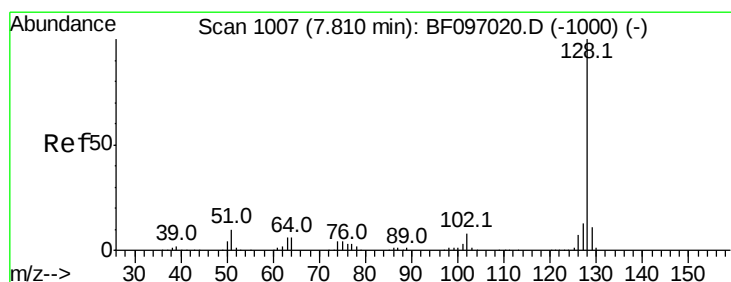
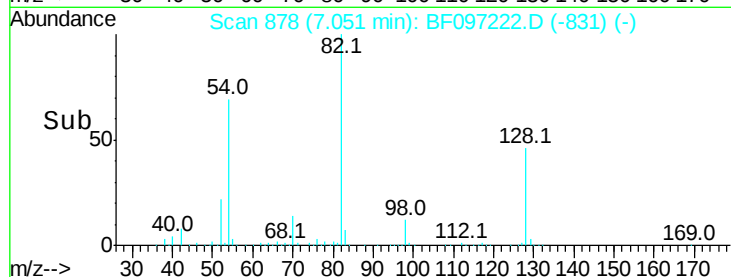
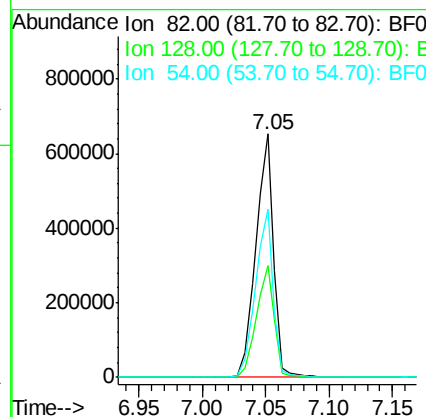
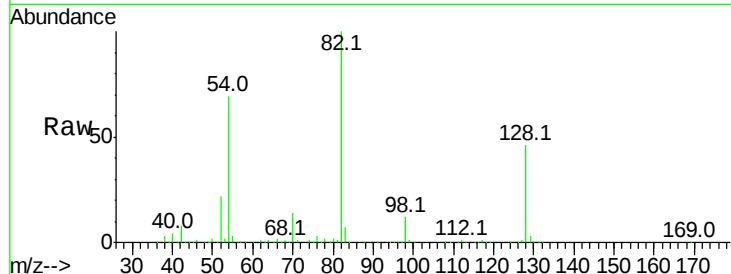
#23
Nitrobenzene-d5
Concen: 65.488 ng
RT: 7.05 min Scan# 878
Delta R.T. -0.02 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.0	34.0	51.0	
54	68.9	42.2	63.2	

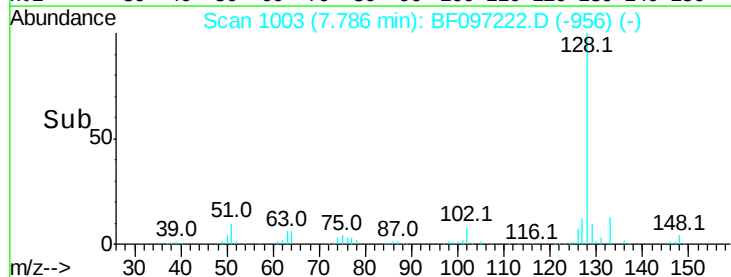
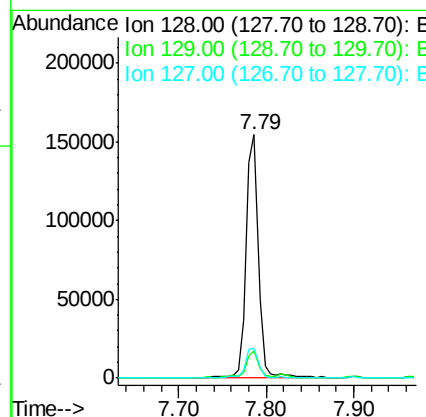
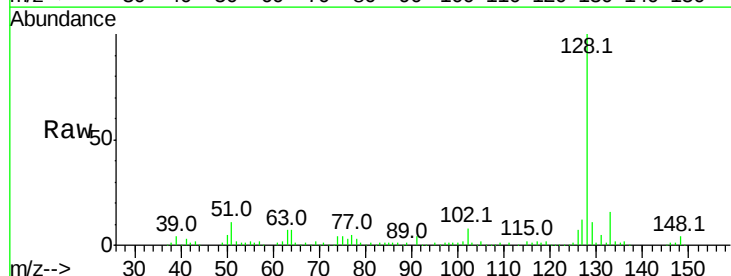
Manual Integrations
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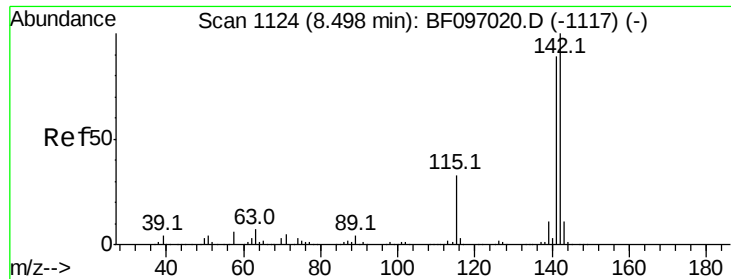
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#31
Naphthalene
Concen: 5.429 ng
RT: 7.79 min Scan# 1003
Delta R.T. -0.02 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.3	9.0	13.6	
127	12.5	10.8	16.2	





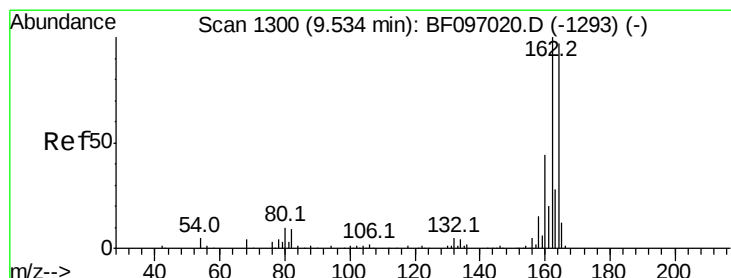
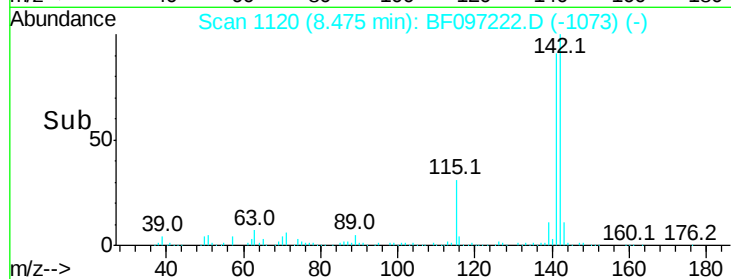
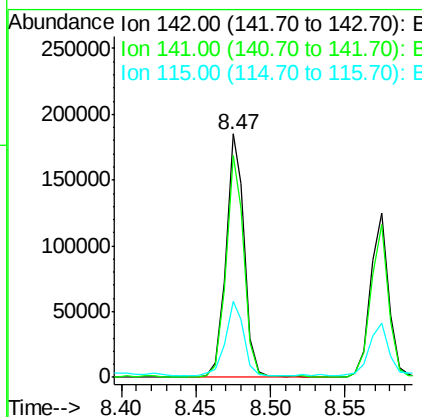
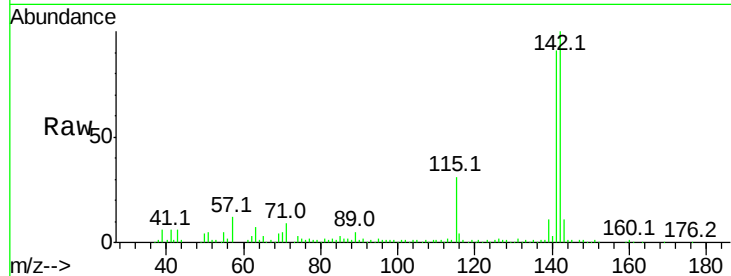
#37
 2-Methylnaphthalene
 Concen: 9.444 ng
 RT: 8.47 min Scan# 1120
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Instrument :
 BNA_F
 ClientSampled :
 E2-L7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
142	100	161343		
141	91.3	71.3	106.9	
115	31.4	27.1	40.7	

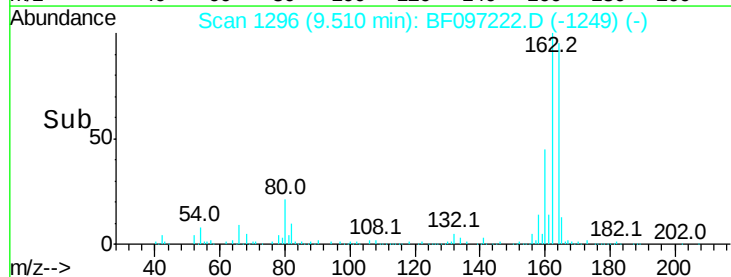
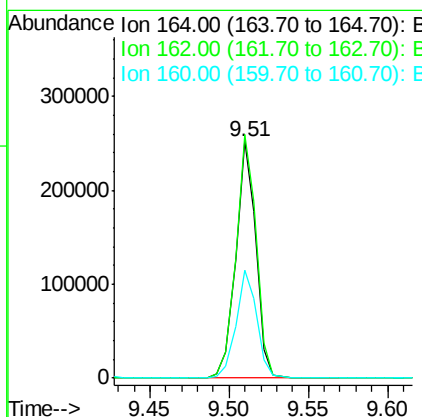
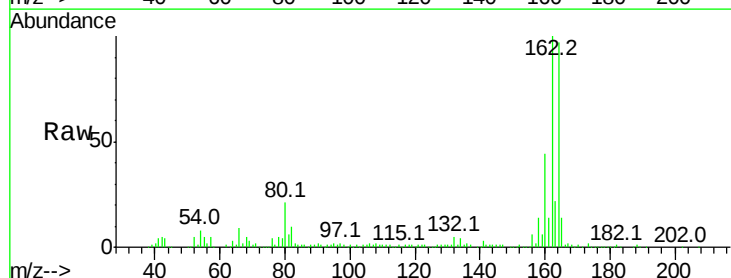
Manual Integrations
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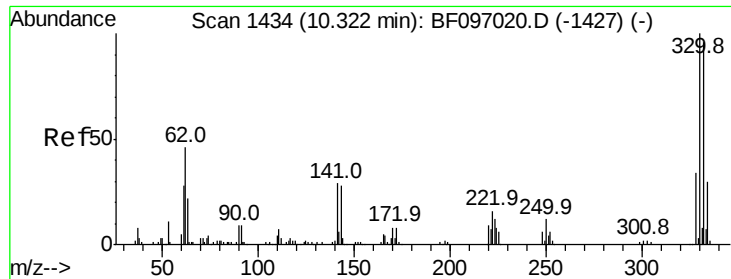
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.51 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	221508		
162	102.8	82.6	123.8	
160	45.5	36.2	54.2	





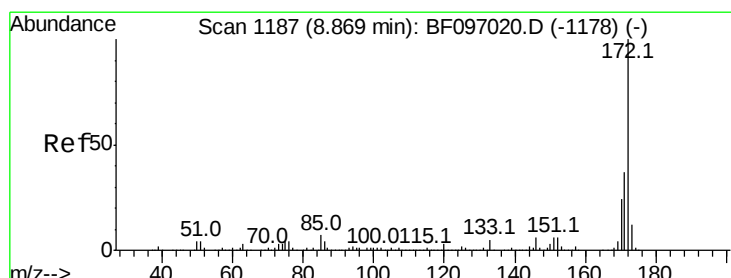
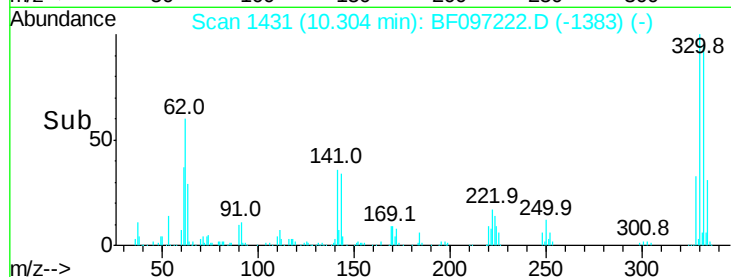
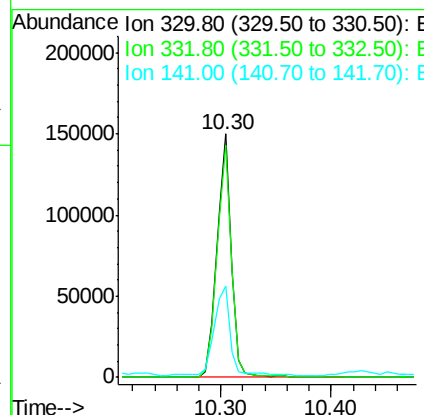
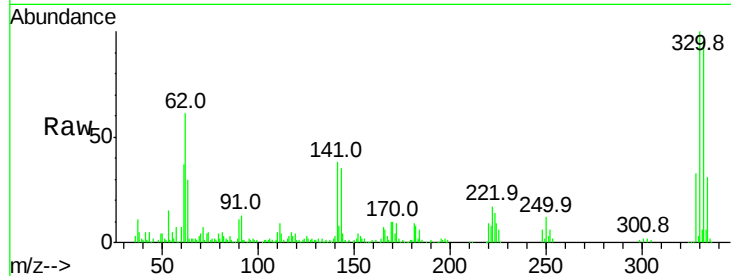
#41
 2,4,6-Tribromophenol
 Concen: 75.494 ng
 RT: 10.30 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-L7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
330	100	132124		
332	96.0	76.6	115.0	
141	40.2	31.4	47.2	

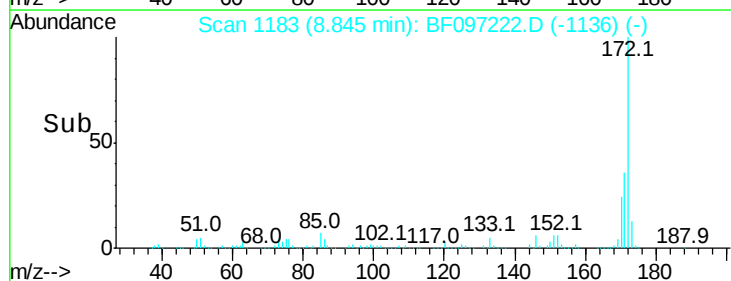
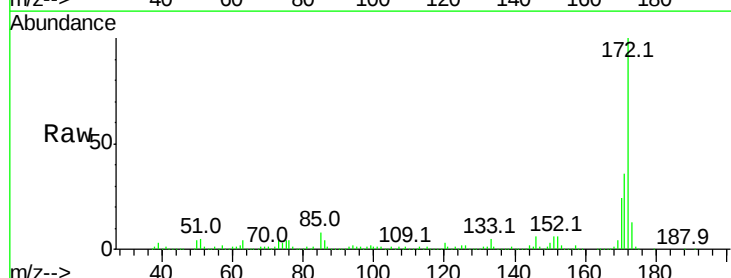
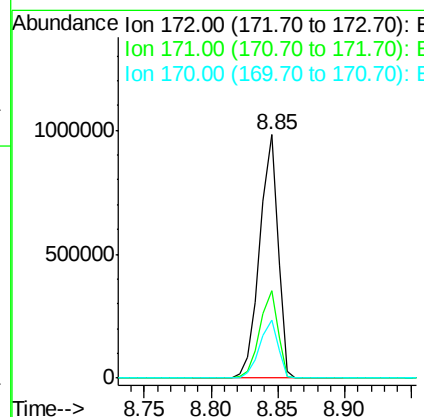
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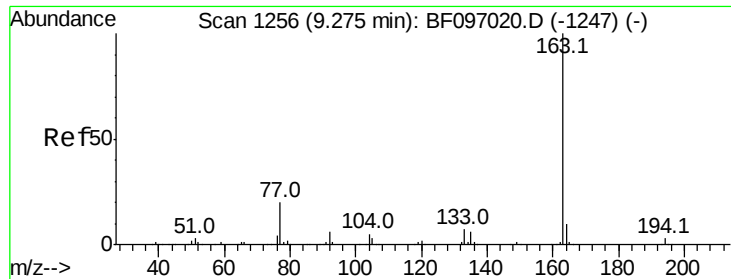
Sohil
 8/1/2017 5:44:59 PM



#44
 2-Fluorobiphenyl
 Concen: 70.329 ng
 RT: 8.85 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	917944		
171	36.1	29.6	44.4	
170	23.9	19.8	29.8	





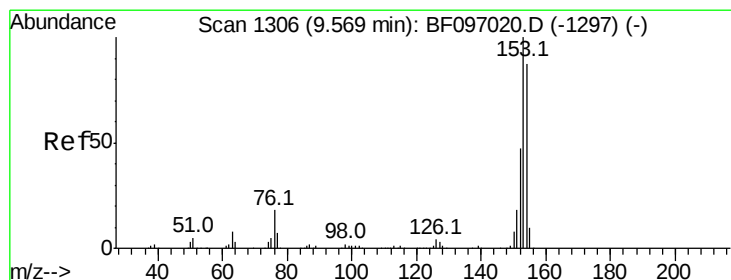
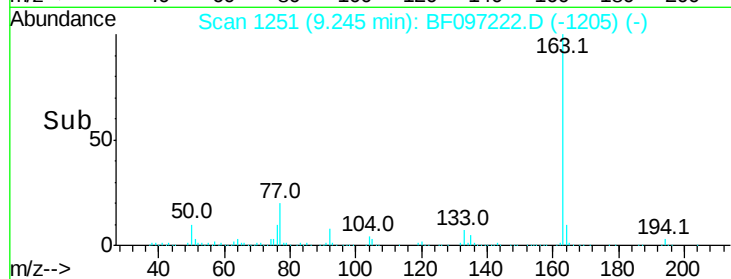
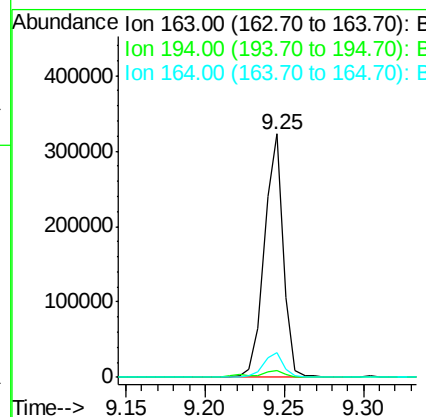
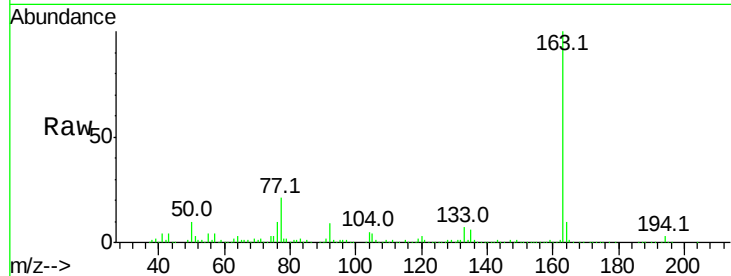
#49
Dimethylphthalate
Concen: 15.842 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.03 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
163	100	266478		
194	3.0		2.6	4.0
164	10.1		8.4	12.6

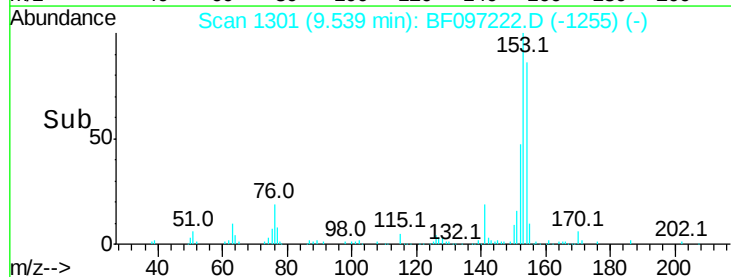
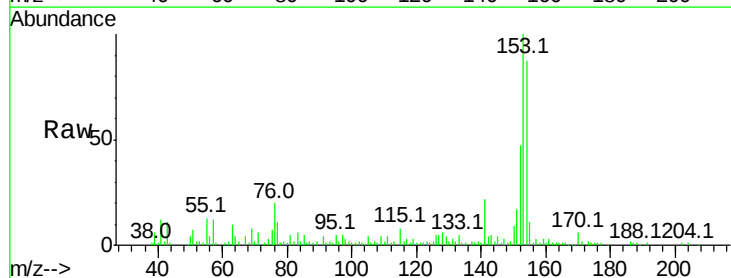
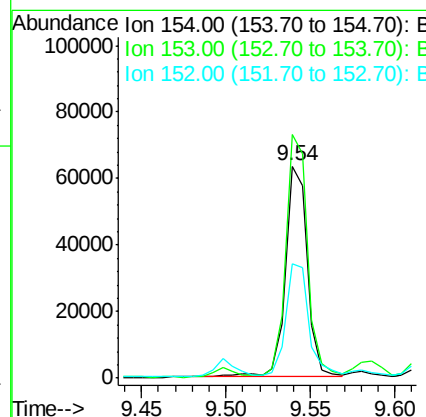
Manual Integrations
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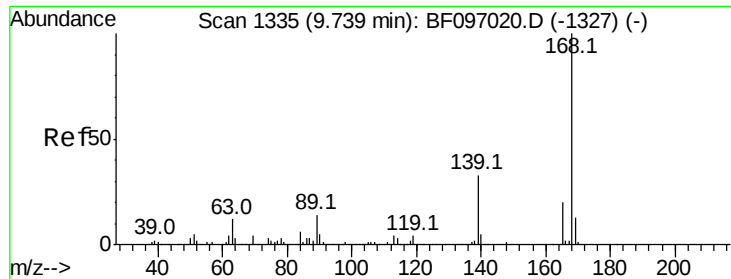
Sohil
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#51
Acenaphthene
Concen: 4.534 ng
RT: 9.54 min Scan# 1301
Delta R.T. -0.03 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	57077		
153	115.1		90.5	135.7
152	54.3		43.6	65.4





#54

Dibenzofuran

Concen: 2.195 ng

RT: 9.72 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Instrument :

BNA_F

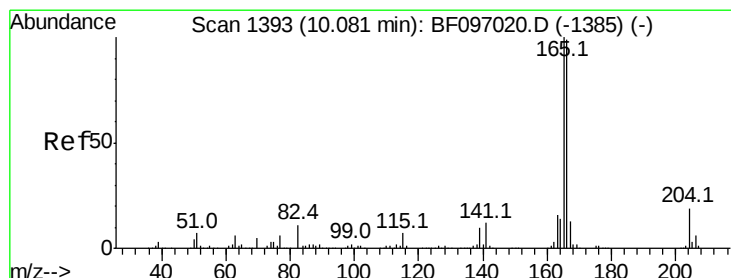
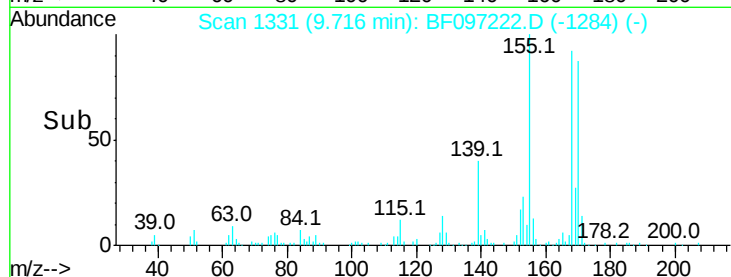
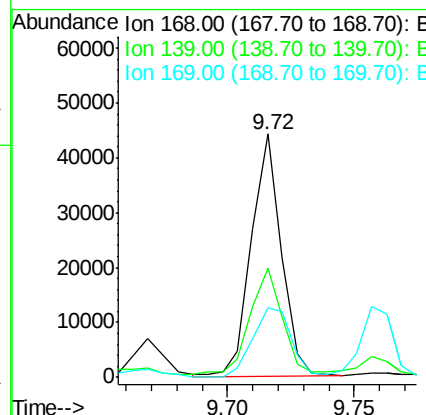
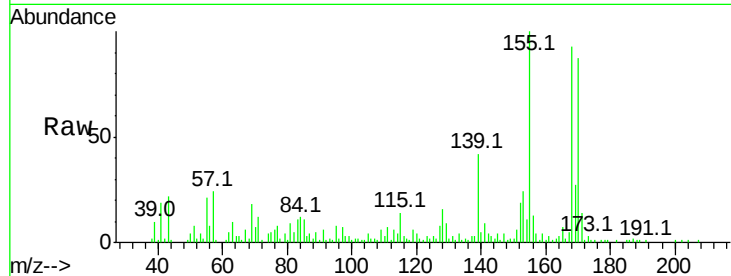
ClientSampled :

E2-L7-BASE

Tot Ion:	168	Resp:	36806
Ion Ratio	Lower	Upper	
168	100		
139	45.0	30.6	45.8
169	28.6	10.8	16.2#

Manual Integrations
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#57

Fluorene

Concen: 3.685 ng

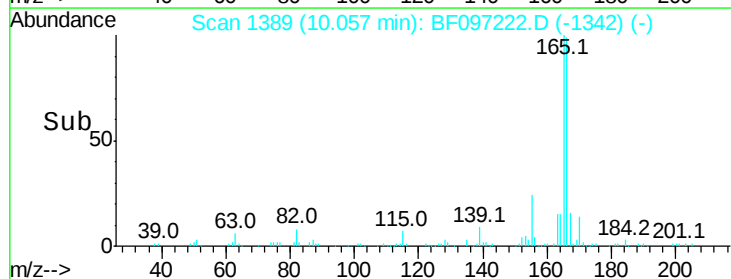
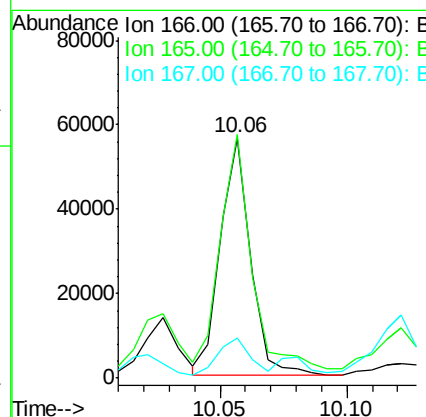
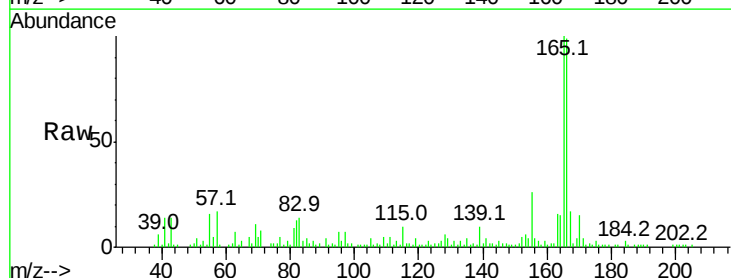
RT: 10.06 min Scan# 1389

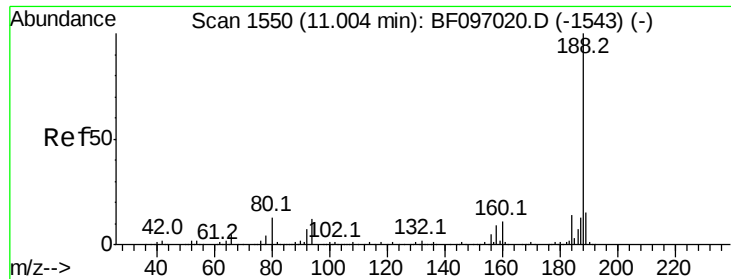
Delta R.T. -0.02 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Tgt Ion:	166	Resp:	46441
Ion Ratio	Lower	Upper	
166	100		
165	101.3	78.8	118.2
167	16.8	10.6	16.0#





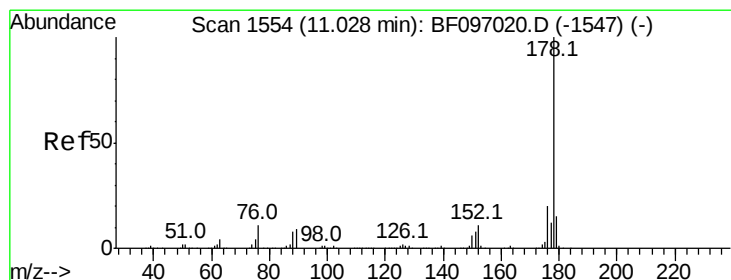
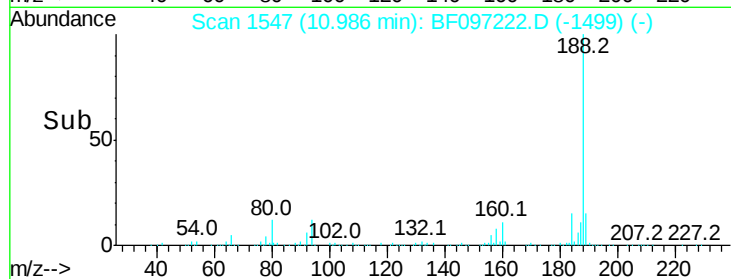
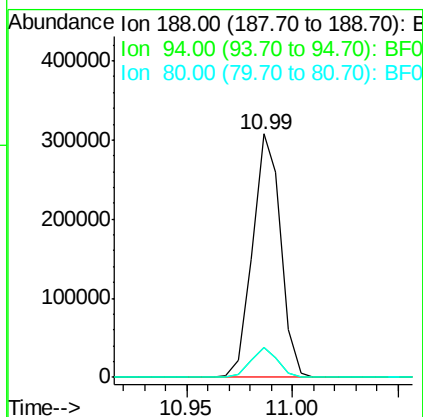
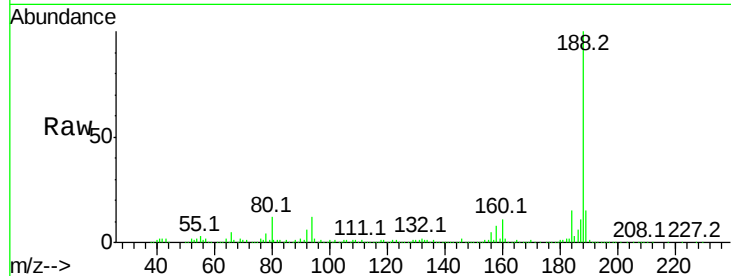
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	284932		
94	12.1		9.4	14.2
80	12.2		10.2	15.2

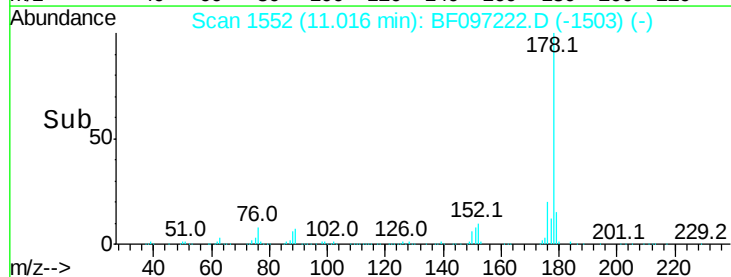
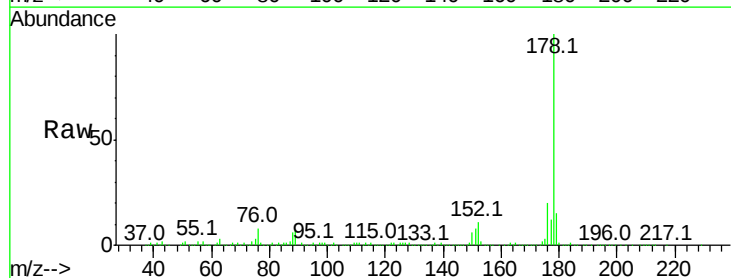
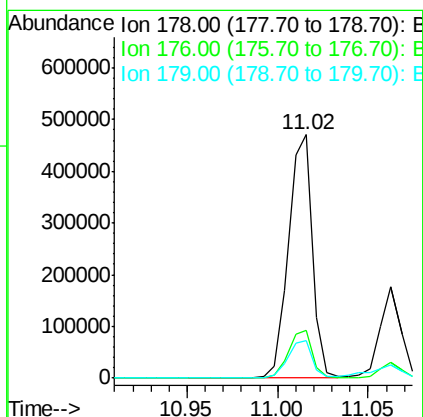
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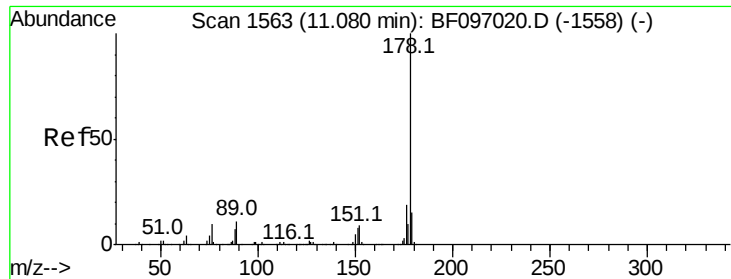
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#70
Phenanthrene
Concen: 28.350 ng
RT: 11.02 min Scan# 1552
Delta R.T. -0.01 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	432808		
176	19.9		16.2	24.4
179	15.3		12.6	19.0





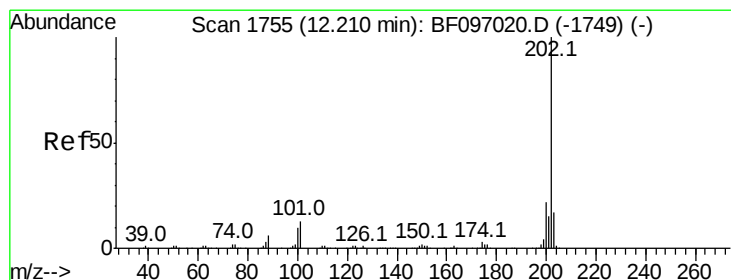
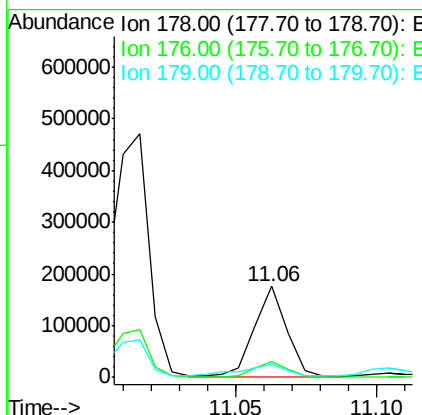
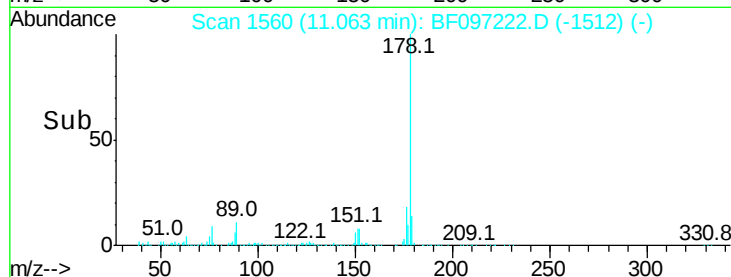
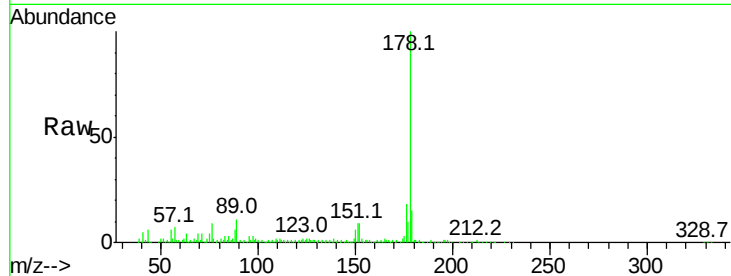
#71
 Anthracene
 Concen: 8.895 ng
 RT: 11.06 min Scan# 1560
 Delta R.T. -0.02 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.8	23.8
179	14.7	12.7	19.1

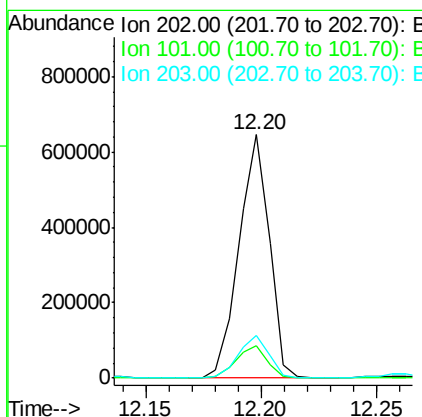
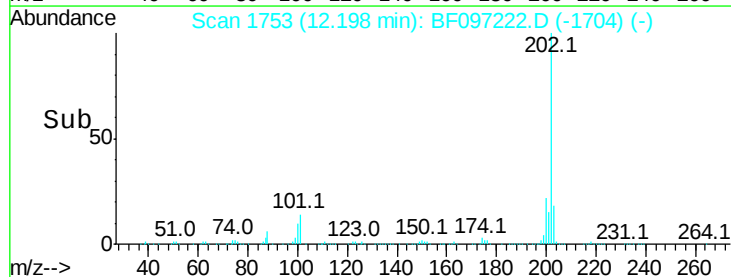
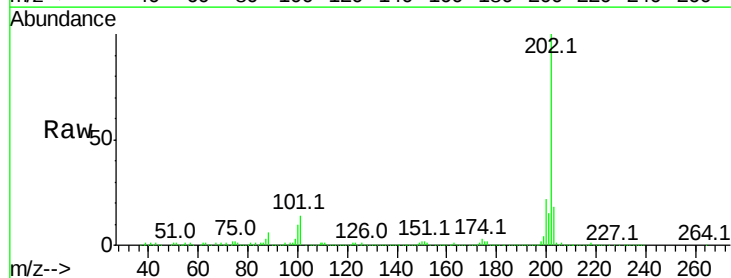
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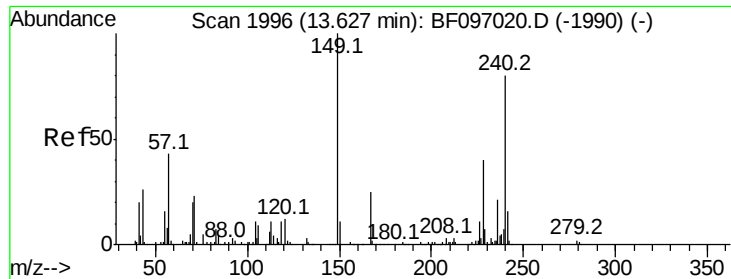
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#74
 Fluoranthene
 Concen: 39.375 ng
 RT: 12.20 min Scan# 1753
 Delta R.T. -0.01 min
 Lab File: BF097222.D
 Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.62 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Instrument :

BNA_F

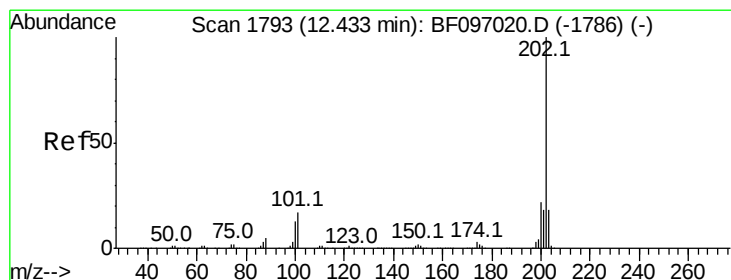
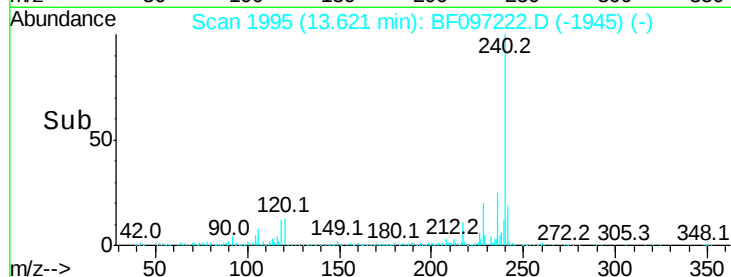
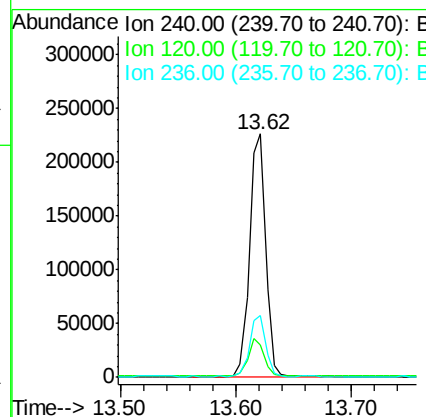
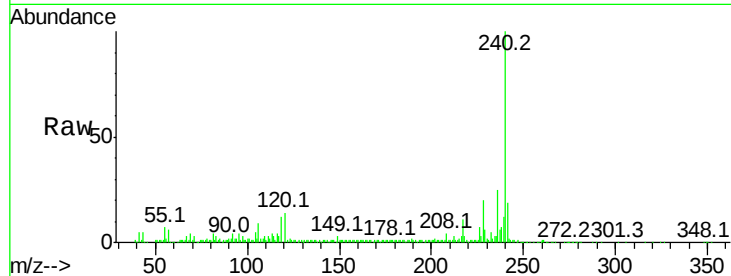
ClientSampleId :

E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.6	5.8	8.8#
236	25.3	20.5	30.7

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#77

Pyrene

Concen: 32.569 ng

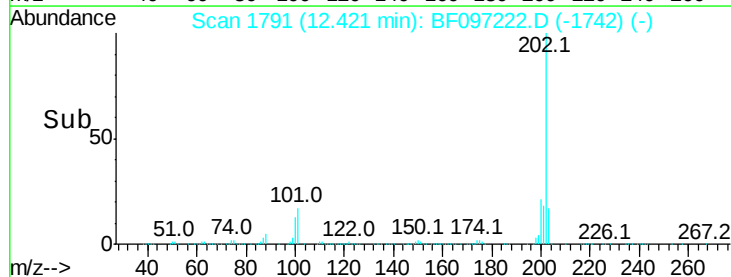
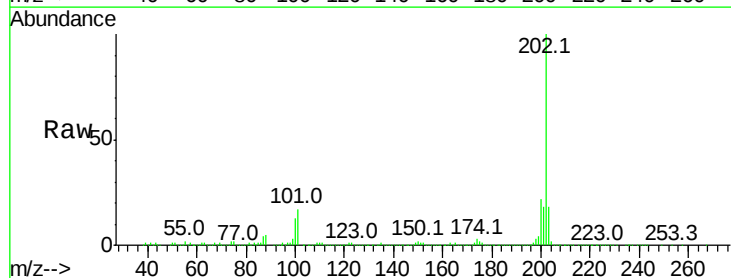
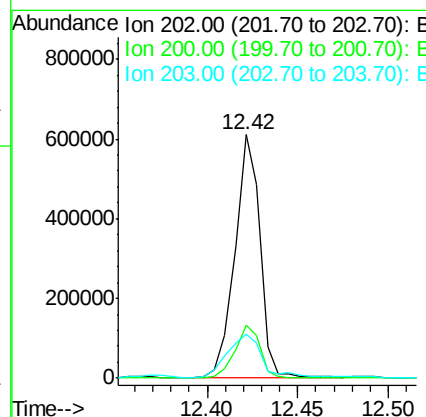
RT: 12.42 min Scan# 1791

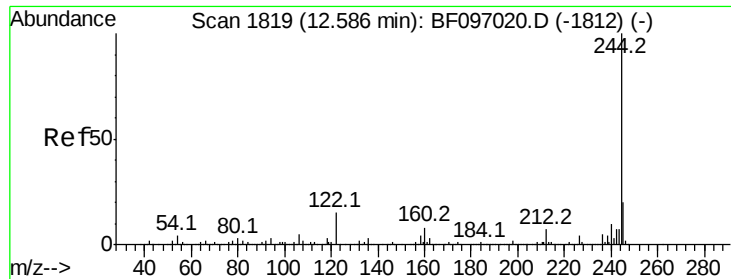
Delta R.T. -0.01 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	18.2	14.4	21.6





#78

Terphenyl-d14

Concen: 47.722 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Instrument :

BNA_F

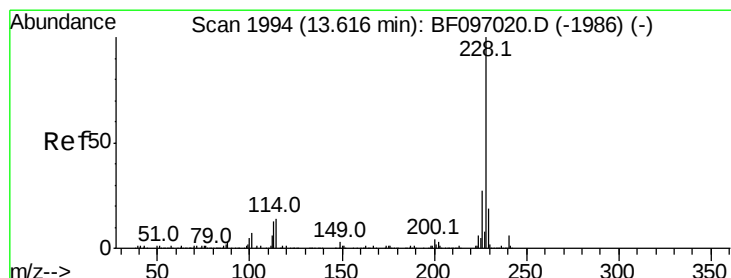
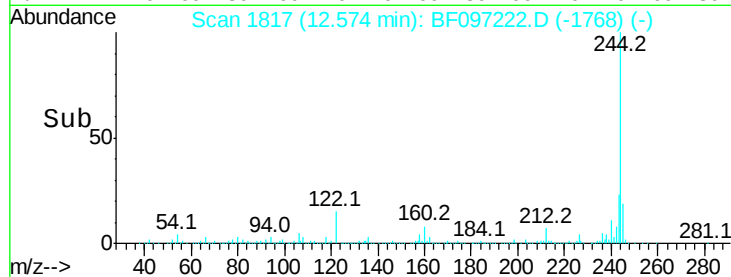
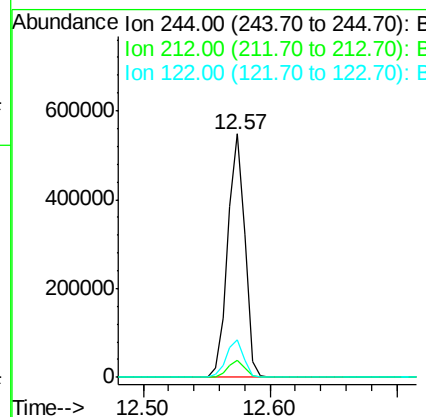
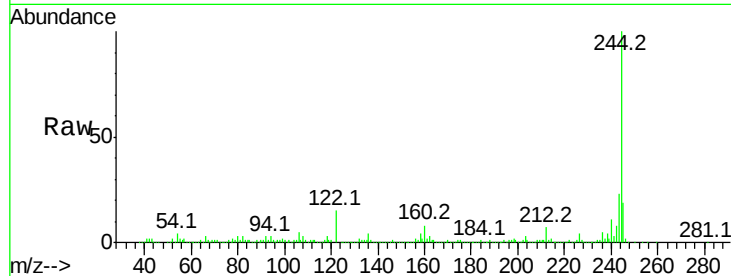
ClientSampled :

E2-L7-BASE

Tot Ion:	244	Resp:	514019
Ion Ratio	Lower	Upper	
244	100		
212	7.2	6.0	9.0
122	15.4	10.3	15.5

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#80

Benzo(a)anthracene

Concen: 18.991 ng

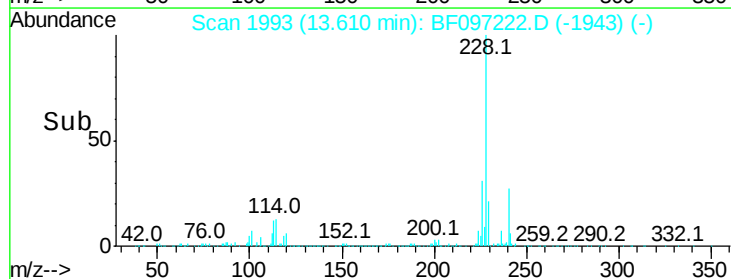
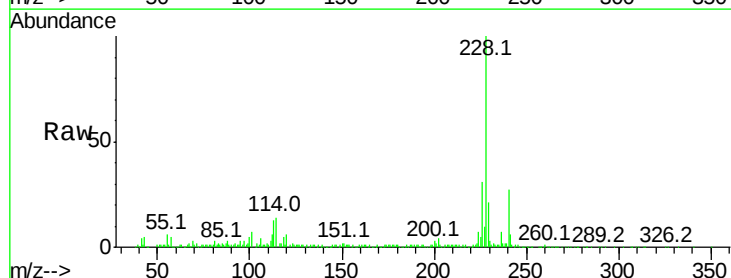
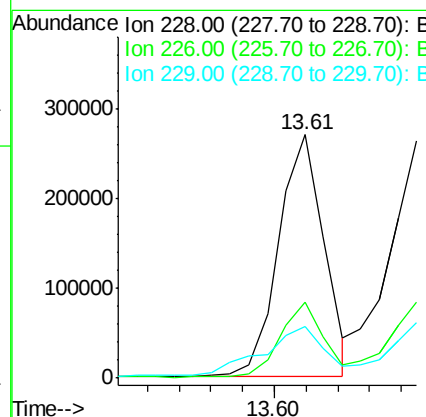
RT: 13.61 min Scan# 1993

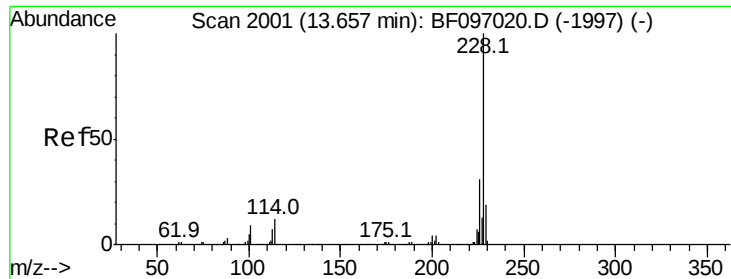
Delta R.T. -0.01 min

Lab File: BF097222.D

Acq: 31 Jul 2017 21:51

Tgt Ion:	228	Resp:	269857
Ion Ratio	Lower	Upper	
228	100		
226	31.2	22.6	33.8
229	21.4	16.3	24.5





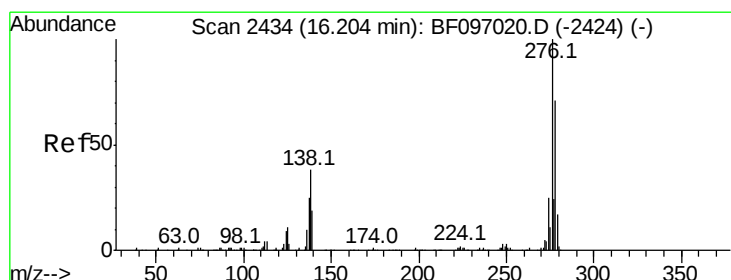
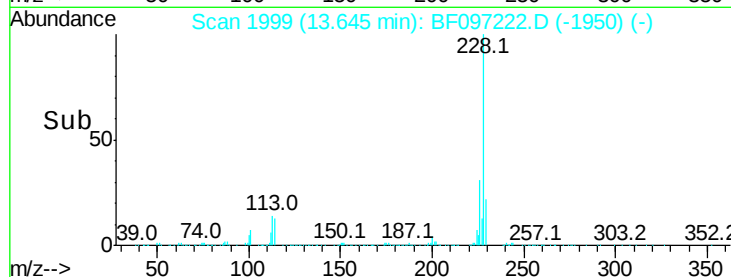
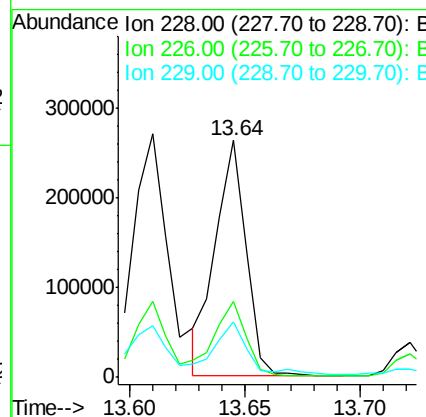
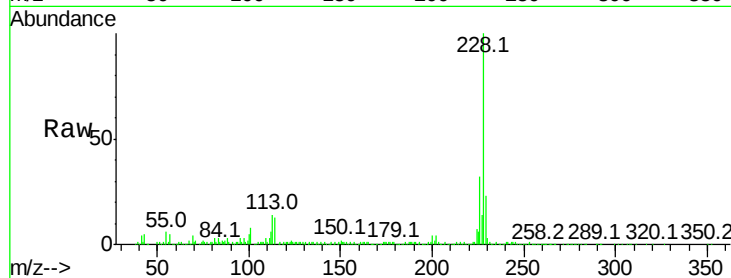
#82
Chrysene
Concen: 17.520 ng
RT: 13.64 min Scan# 1999
Delta R.T. -0.01 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion:	228	Resp:	243100
Ion Ratio	Lower	Upper	
228	100		
226	32.0	24.9	37.3
229	23.3	15.8	23.6

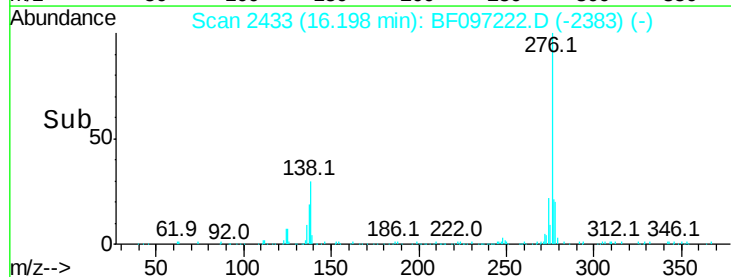
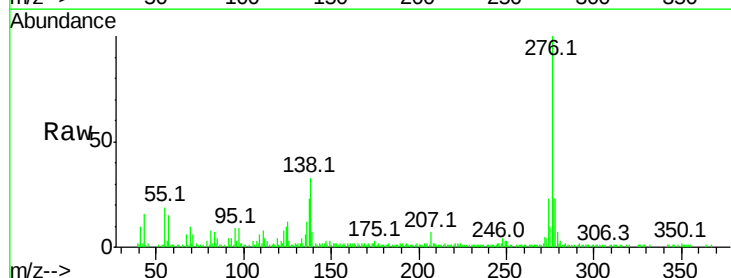
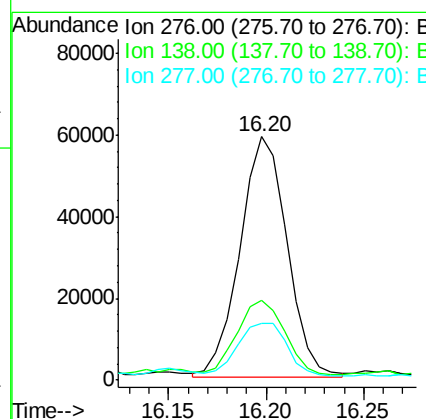
Manual Integrations
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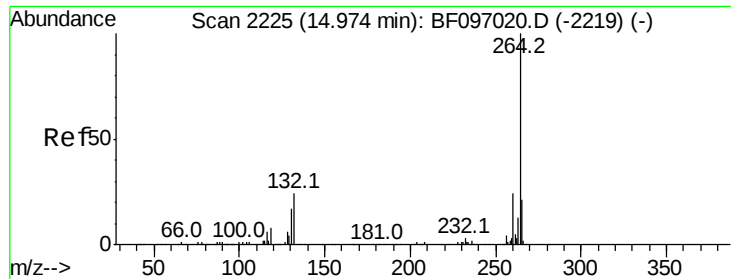
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 8.335 ng
RT: 16.20 min Scan# 2433
Delta R.T. -0.01 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion:	276	Resp:	99167
Ion Ratio	Lower	Upper	
276	100		
138	31.9	27.8	41.6
277	22.8	20.2	30.4





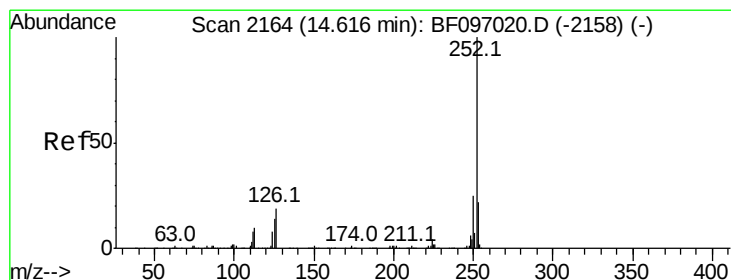
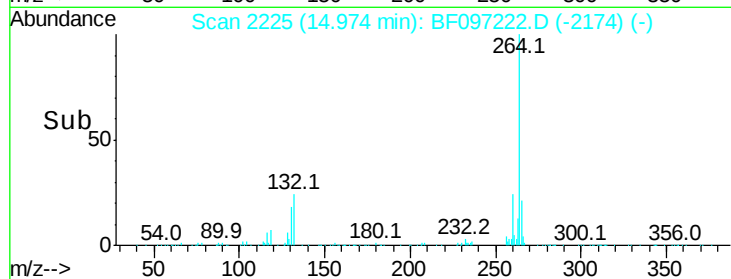
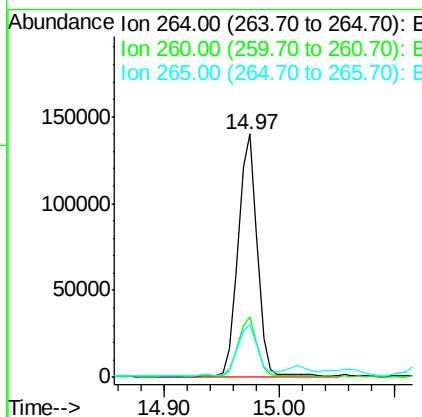
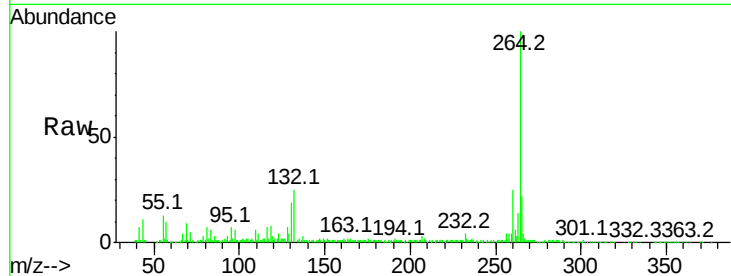
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.97 min Scan# 2225
Delta R.T. -0.00 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.5	29.3
265	21.6	17.2	25.8

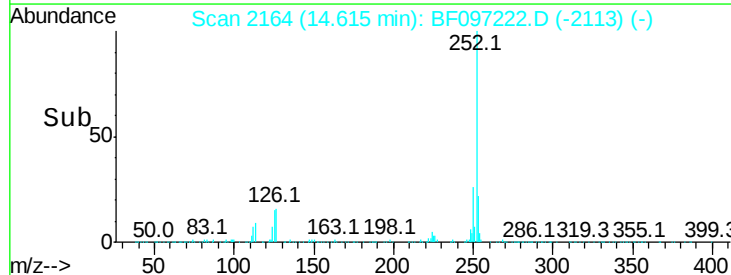
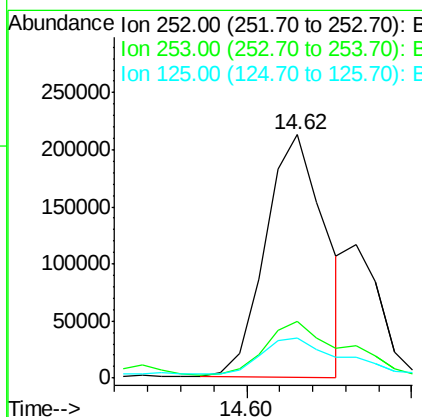
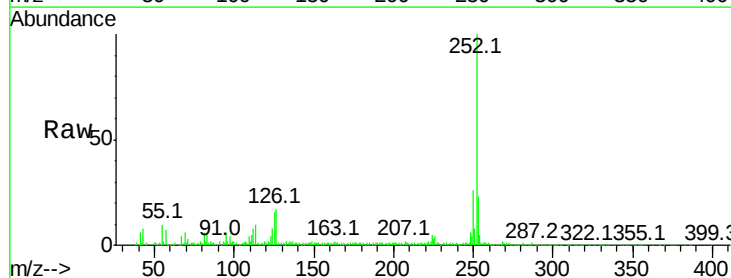
Manual Integrations
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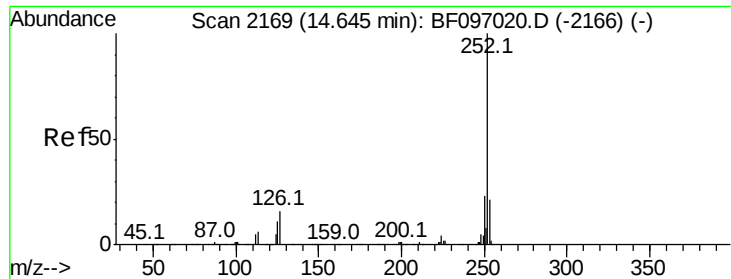
Sohil
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#87
Benzo(b)fluoranthene
Concen: 27.870 ng m
RT: 14.62 min Scan# 2164
Delta R.T. -0.00 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	16.4	9.8	14.8





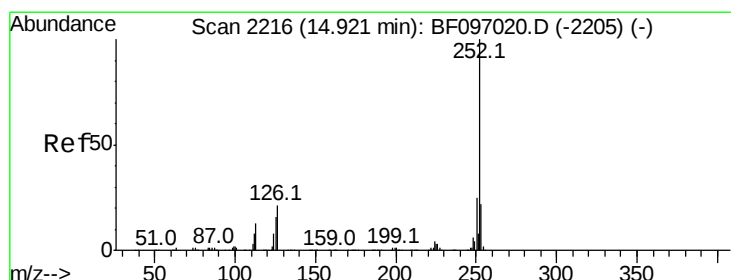
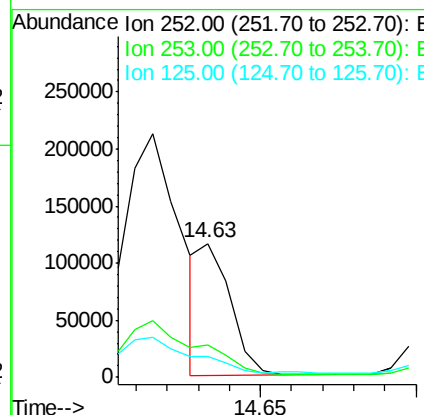
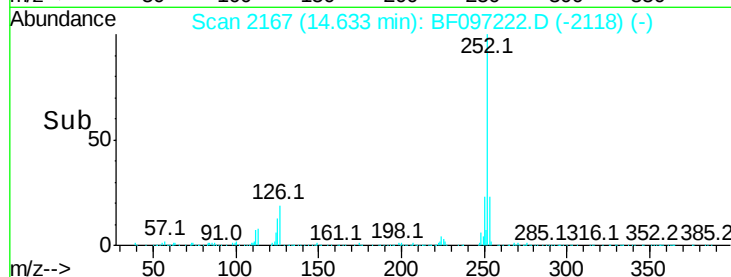
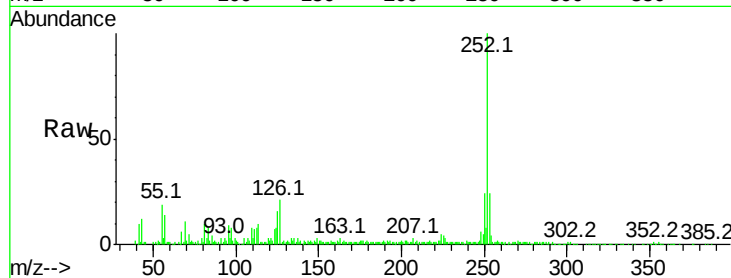
#88
Benzo(k)fluoranthene
Concen: 8.728 ng
RT: 14.63 min Scan# 2167
Delta R.T. -0.01 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.4	27.6
125	16.1	13.1	19.7

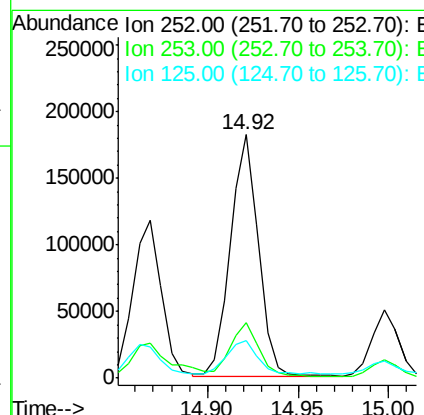
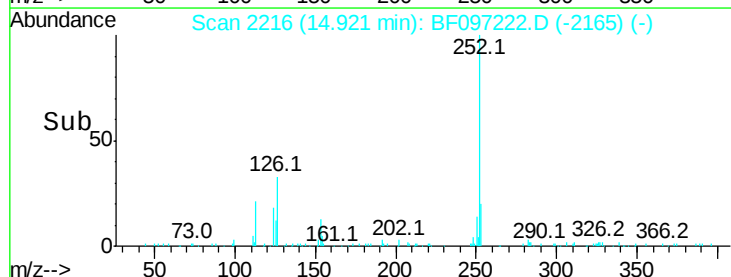
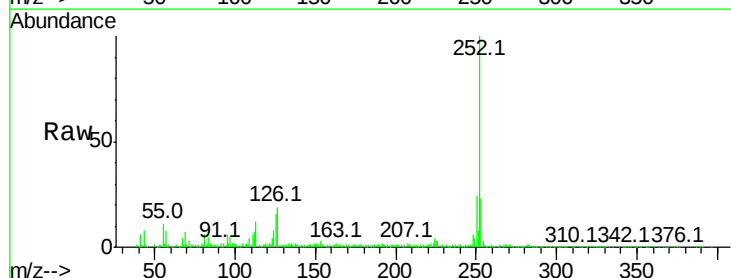
Manual Integrations
APPROVED

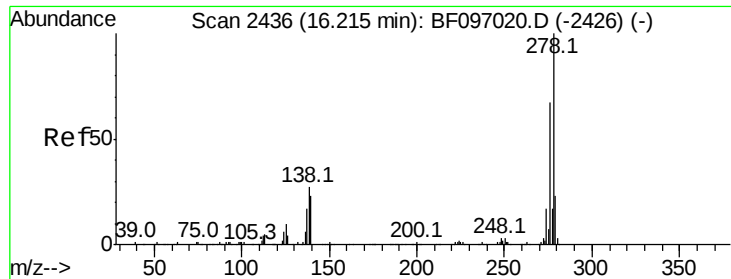
Sohil
8/1/2017 5:44:59 PM



#89
Benzo(a)pyrene
Concen: 22.260 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	15.6	11.0	16.4





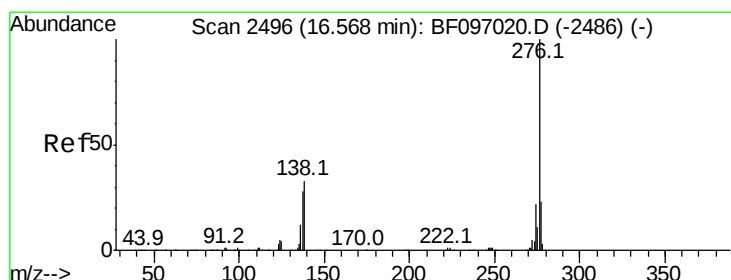
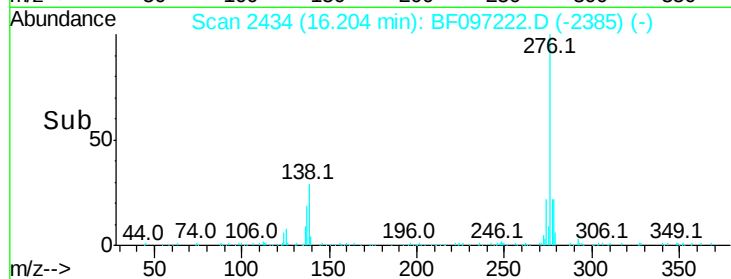
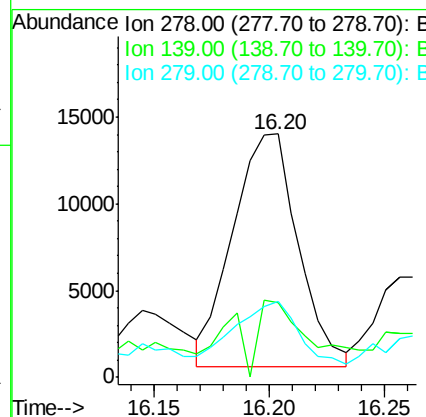
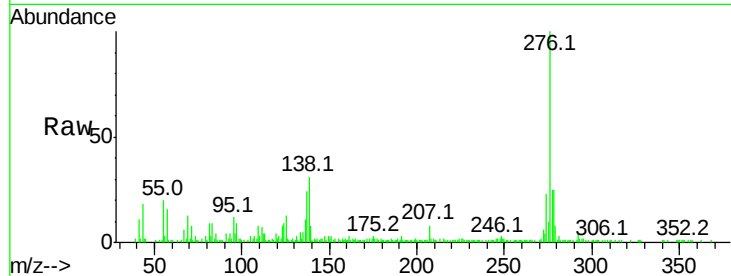
#90
Dibenzo(a,h)anthracene
Concen: 3.646 ng m
RT: 16.20 min Scan# 2434
Delta R.T. -0.01 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Instrument :
BNA_F
ClientSampleId :
E2-L7-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	30.7	16.6	24.8#
279	31.3	19.3	28.9#

Manual Integrations
APPROVED

Sohil
8/1/2017 5:44:59 PM



#91
Benzo(g,h,i)perylene
Concen: 12.620 ng
RT: 16.56 min Scan# 2495
Delta R.T. -0.01 min
Lab File: BF097222.D
Acq: 31 Jul 2017 21:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	32.1	25.4	38.0

