

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086049.D
 Acq On : 4 Apr 2016 20:46
 Operator : UM/SJ
 Sample : H2180-08
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401

Manual Integrations
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Sohil
 4/5/2016 6:39:56 PM

Quant Time: Apr 05 11:57:47 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	120519	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	435203	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	184458	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	253187	20.00	ng	0.00
75) Chrysene-d12	13.93	240	217597	20.00	ng	0.00
86) Perylene-d12	15.33	264	170616	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	864530	122.61	ng	0.00
7) Phenol-d6	6.42	99	1081583	120.77	ng	0.00
23) Nitrobenzene-d5	7.33	82	641644	86.95	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	205614	118.76	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	870869	78.50	ng	-0.01
78) Terphenyl-d14	12.88	244	563968	60.92	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.06	128	299077	13.66	ng	99
37) 2-Methylnaphthalene	8.76	142	116094	8.12	ng	99
45) 1,1'-Biphenyl	9.23	154	40355	2.54	ng	94
48) Acenaphthylene	9.66	152	117625	6.37	ng	95
49) Dimethylphthalate	9.53	163	105358	7.71	ng	# 99
51) Acenaphthene	9.84	154	84913	7.73	ng	96
54) Dibenzofuran	10.01	168	186054	12.83	ng	96
57) Fluorene	10.35	166	215012	17.35	ng	99
70) Phenanthrene	11.32	178	1157024	83.77	ng	98
71) Anthracene	11.37	178	254629	17.60	ng	98
72) Carbazole	11.53	167	100221	8.06	ng	# 89
74) Fluoranthene	12.51	202	1000541	69.64	ng	93
77) Pvrene	12.74	202	958333	62.50	ng	99
80) Benzo(a)anthracene	13.92	228	390393m	30.44	ng	
82) Chrysene	13.95	228	391488m	31.69	ng	
85) Indeno(1,2,3-cd)pyrene	16.68	276	125949	12.56	ng	94
87) Benzo(b)fluoranthene	14.93	252	332287m	30.96	ng	
88) Benzo(k)fluoranthene	14.95	252	137973m	14.52	ng	
89) Benzo(a)pvrene	15.28	252	237187	24.94	ng	97
90) Dibenzo(a,h)anthracene	16.68	278	31634	4.13	ng	# 82
91) Benzo(g,h,i)perylene	17.09	276	115978	15.66	ng	98

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

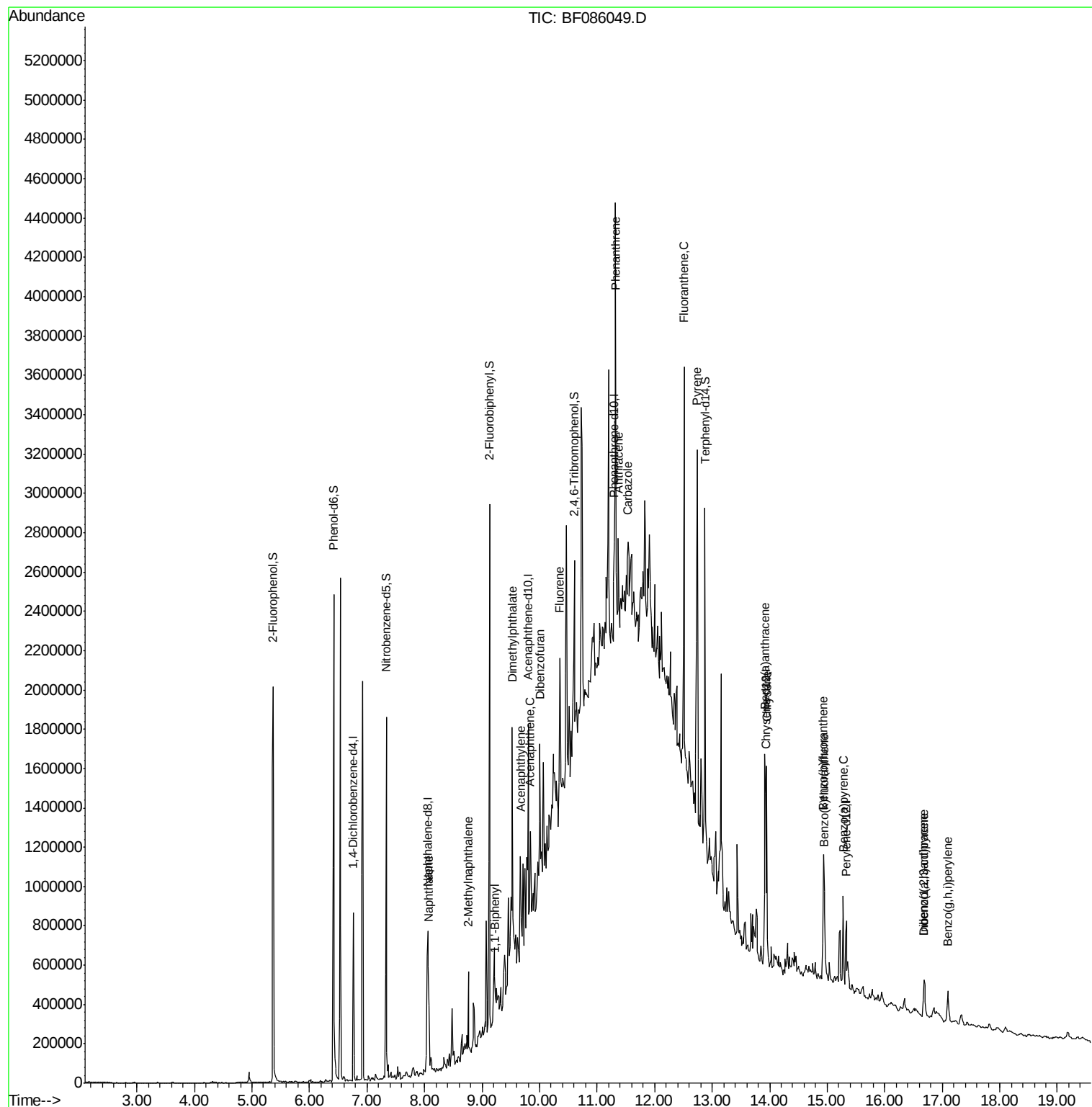
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
Data File : BF086049.D
Acq On : 4 Apr 2016 20:46
Operator : UM/SJ
Sample : H2180-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

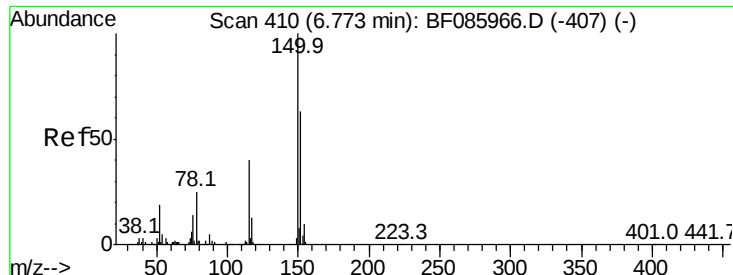
Instrument :
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#1

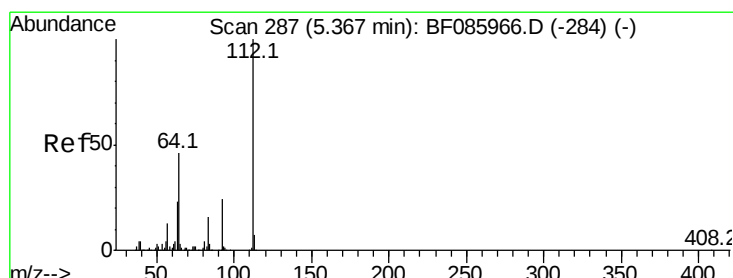
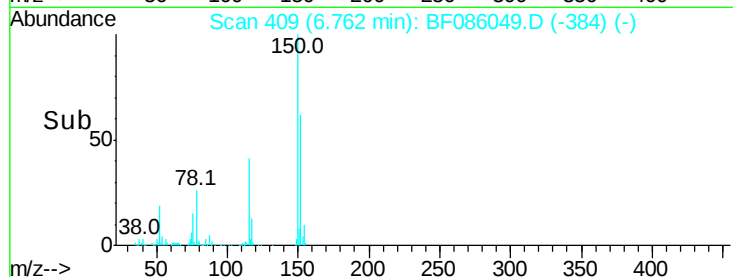
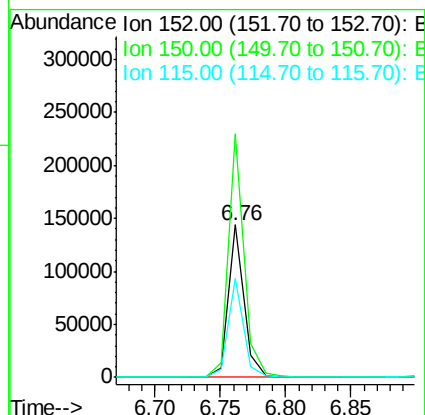
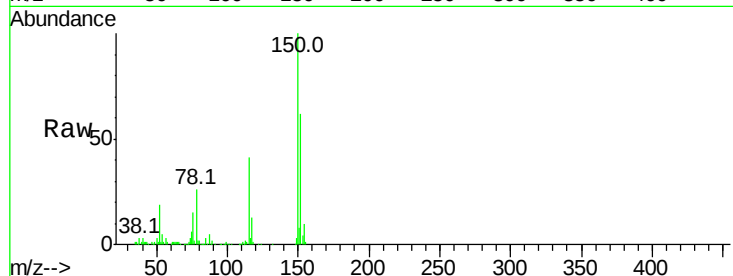
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 409
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	124.2	186.2
115	65.1	47.0	70.6

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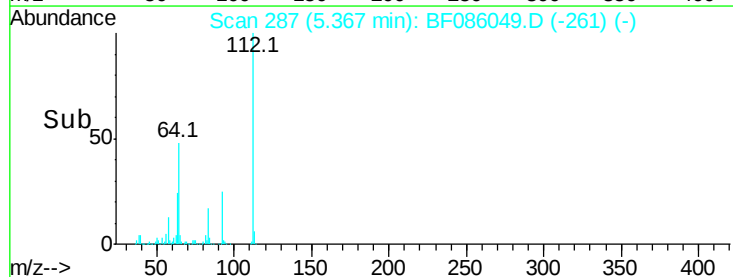
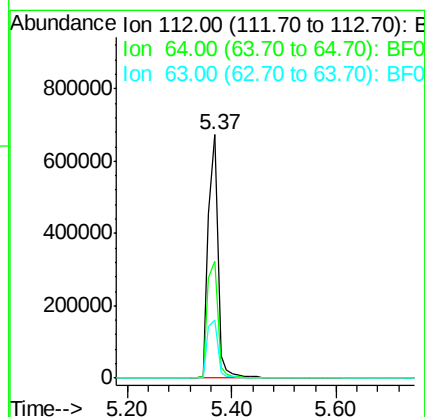
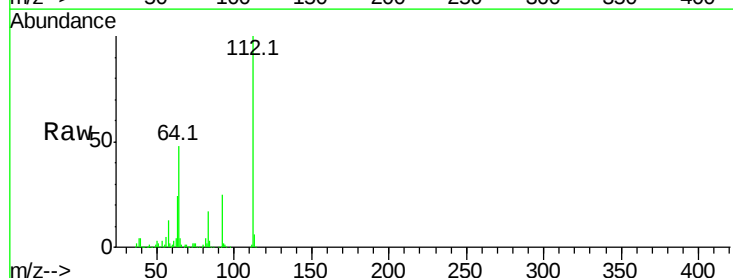
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#5

2-Fluorophenol
Concen: 122.61 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	47.9	39.9	59.9
63	23.8	20.2	30.2





#7

Phenol-d6

Concen: 120.77 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086049.D

Acq: 4 Apr 2016 20:46

Instrument :

BNA_F

ClientSampleId :

TK2-DUP-20160401

Tot Ion: 99 Resp: 1081583

Ion Ratio Lower Upper

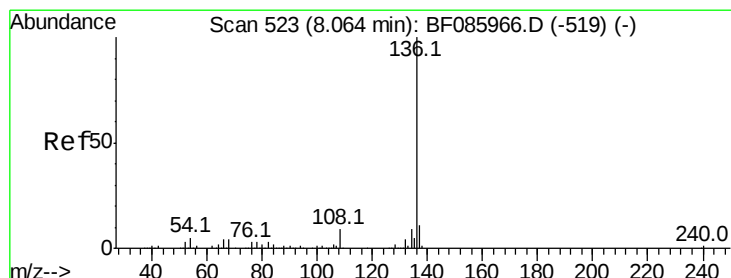
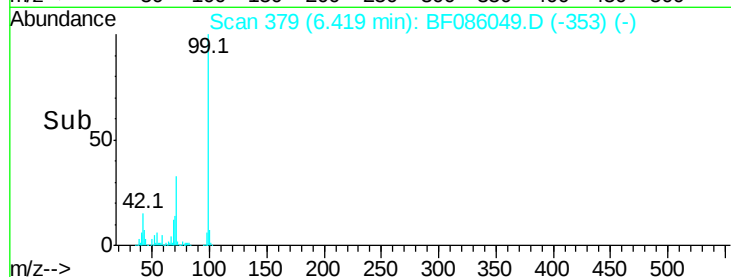
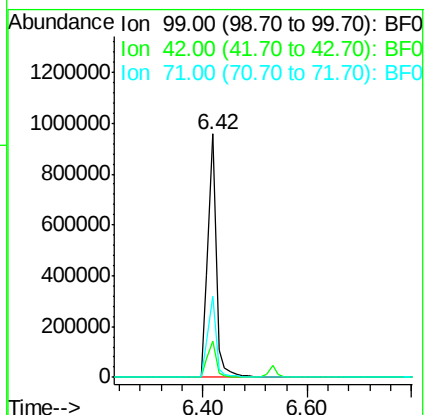
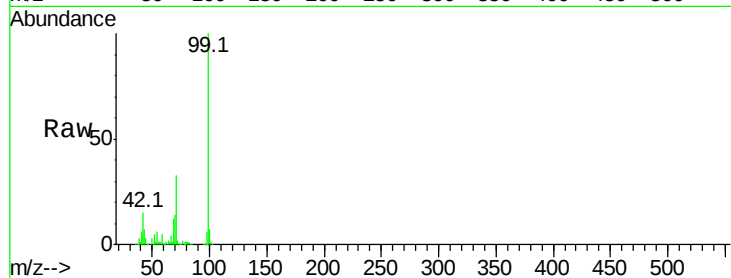
99 100

42 14.7 11.1 16.7

71 33.3 24.9 37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF086049.D

Acq: 4 Apr 2016 20:46

Tgt Ion: 136 Resp: 435203

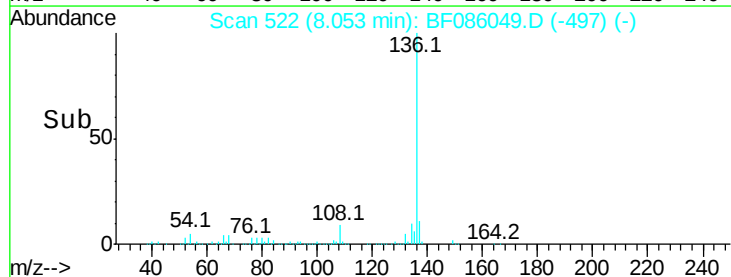
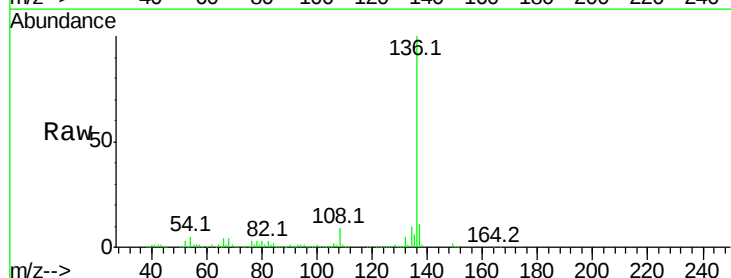
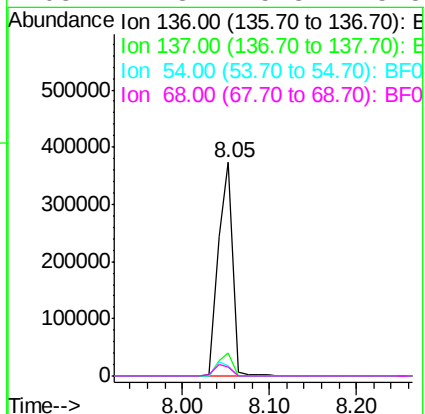
Ion Ratio Lower Upper

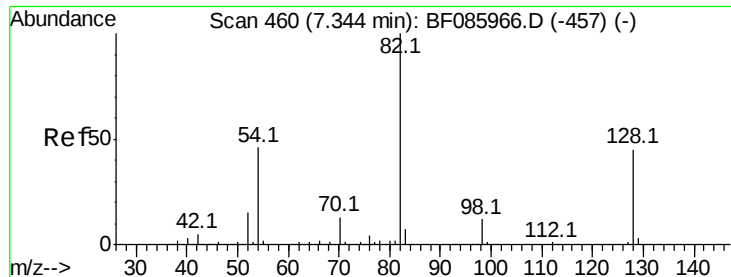
136 100

137 10.9 9.1 13.7

54 4.9 7.4 11.0#

68 4.3 5.8 8.8#





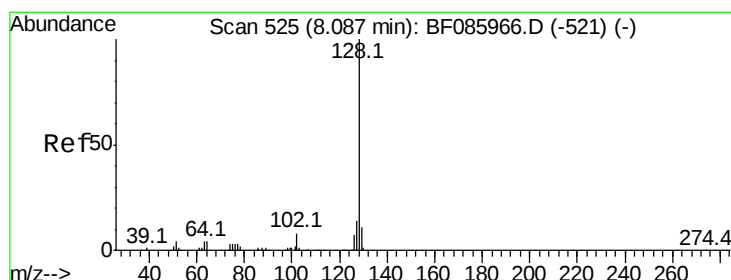
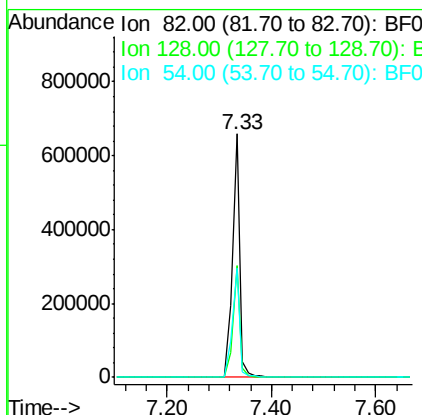
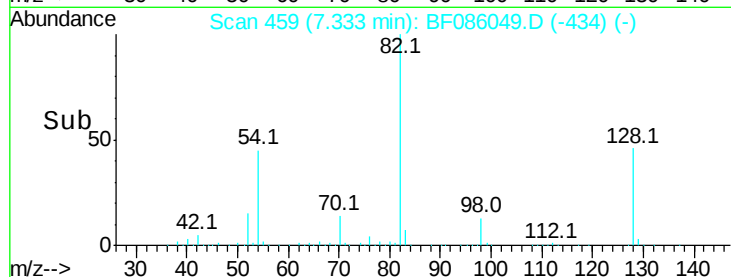
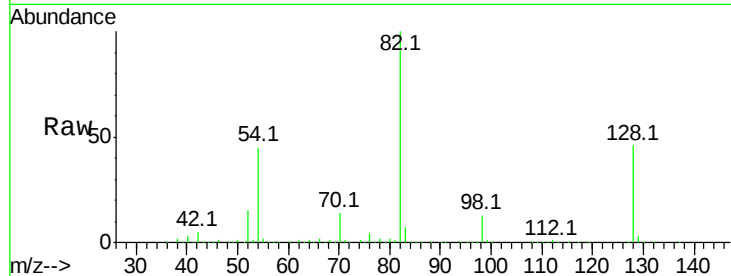
#23
 Nitrobenzene-d5
 Concen: 86.95 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: BF086049.D
 Acq: 4 Apr 2016 20:46

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401

Tot Ion:	82	Resp:	641644
Ion Ratio	Lower	Upper	
82	100		
128	46.1	41.8	62.8
54	45.0	33.4	50.0

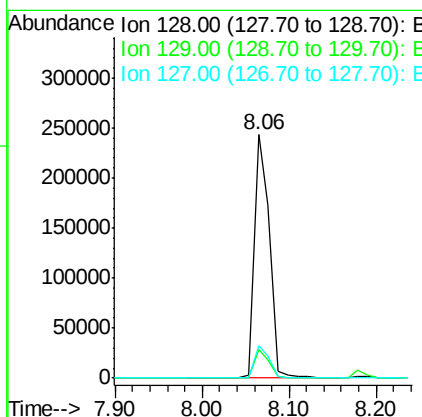
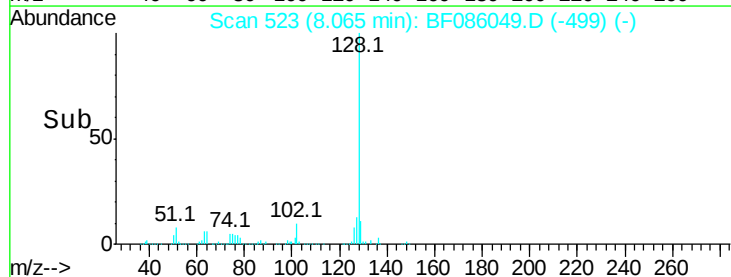
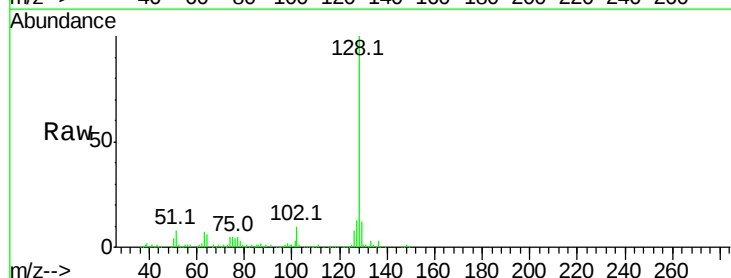
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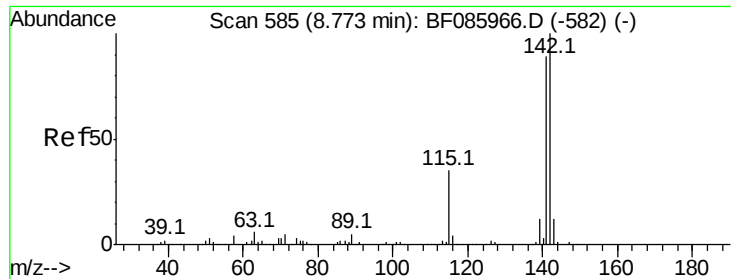
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#31
 Naphthalene
 Concen: 13.66 ng
 RT: 8.06 min Scan# 523
 Delta R.T. -0.02 min
 Lab File: BF086049.D
 Acq: 4 Apr 2016 20:46

Tgt Ion:	128	Resp:	299077
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.4	14.0
127	13.1	11.0	16.6





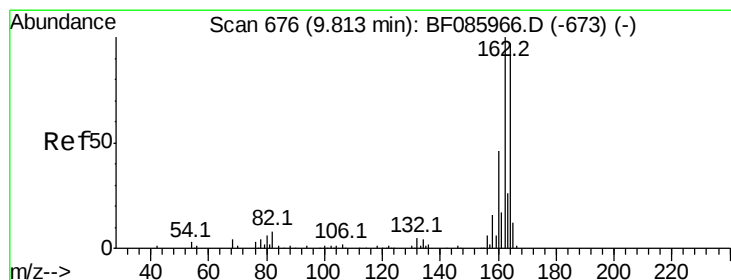
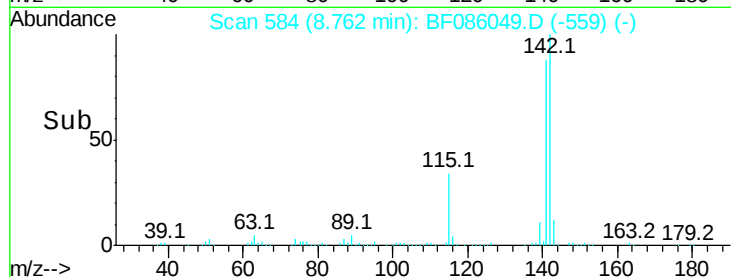
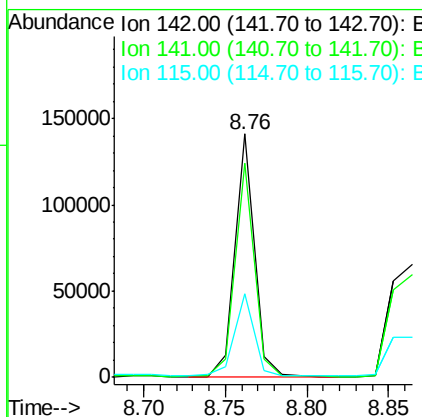
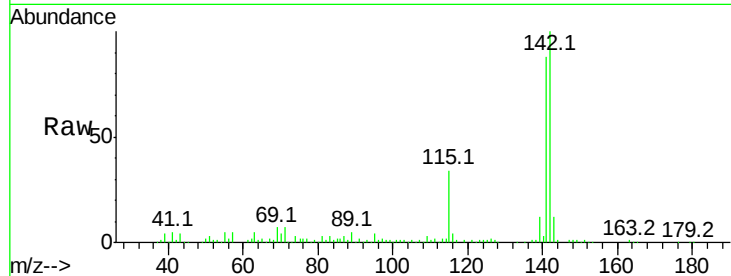
#37
2-Methylnaphthalene
Concen: 8.12 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Resp	Lower	Upper
142	100	116094		
141	88.2	71.6	107.4	
115	34.1	26.8	40.2	

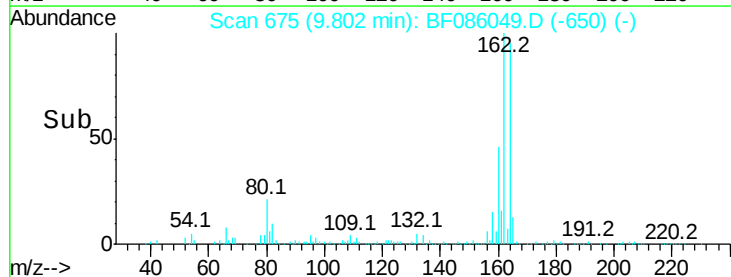
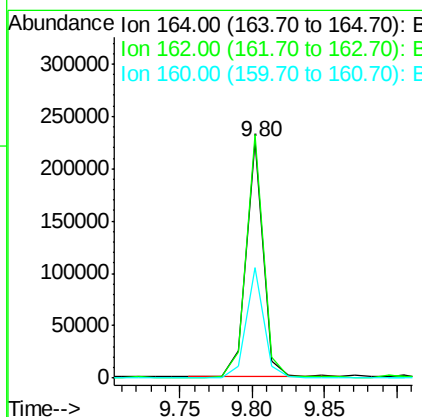
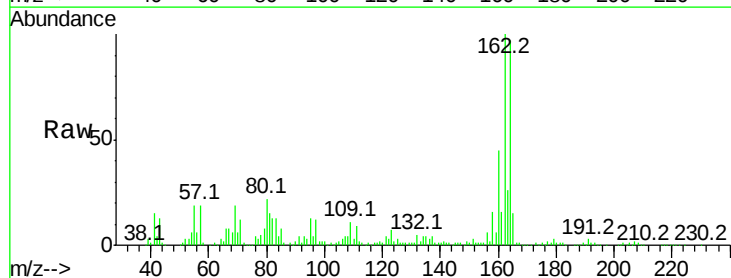
Manual Integrations
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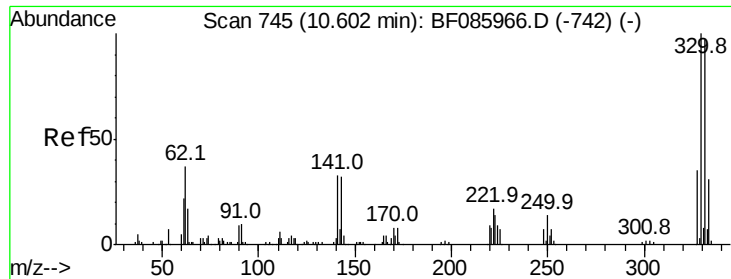
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	184458		
162	102.8	82.1	123.1	
160	46.7	37.4	56.2	





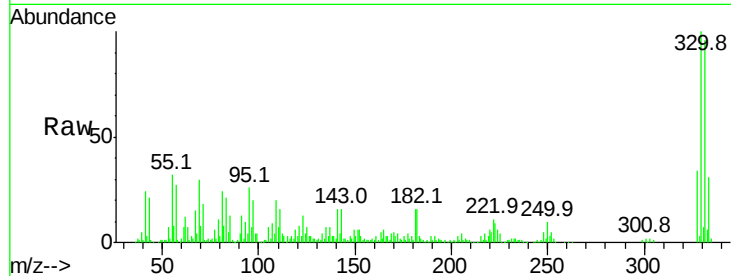
#41
 2,4,6-Tribromophenol
 Concen: 118.76 ng
 RT: 10.60 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: BF086049.D
 Acq: 4 Apr 2016 20:46

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401

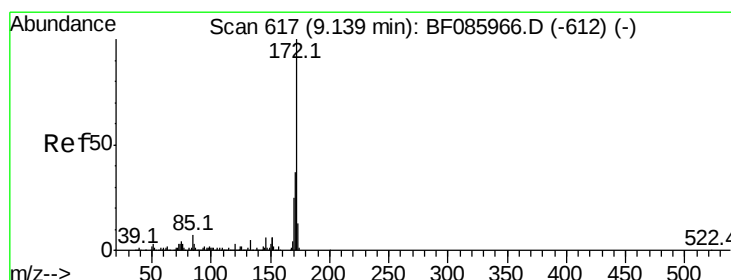
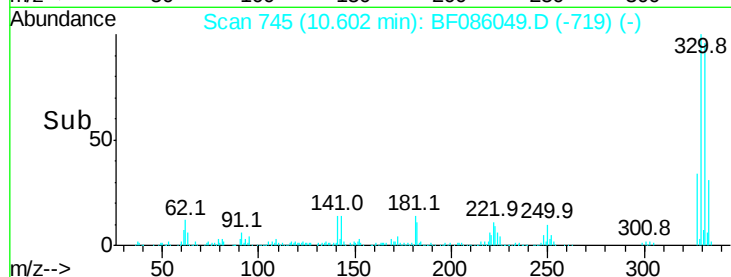
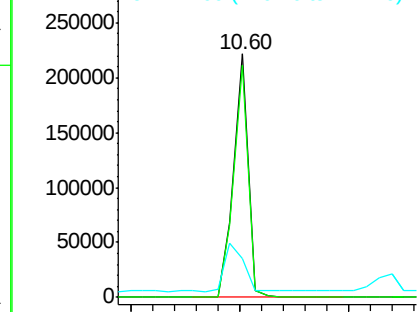
Tot Ion	Ratio	Resp	Lower	Upper
330	100	205614		
332	96.0	78.2	117.2	
141	30.6	31.5	47.3	

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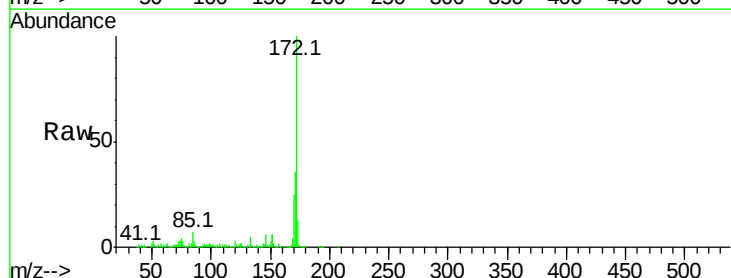


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

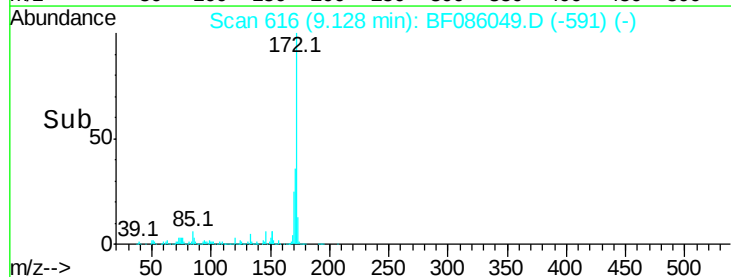
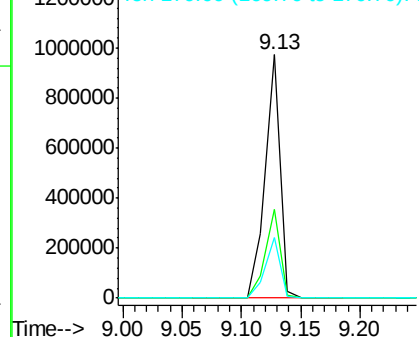


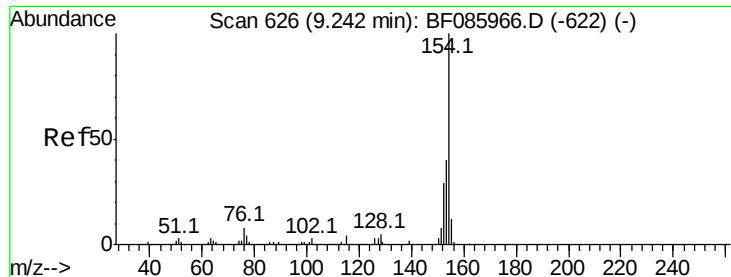
#44
 2-Fluorobiphenyl
 Concen: 78.50 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF086049.D
 Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	870869		
171	36.3	29.4	44.2	
170	24.7	19.8	29.6	



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





#45

1,1'-Biphenyl

Concen: 2.54 ng

RT: 9.23 min Scan# 625

Delta R.T. -0.01 min

Lab File: BF086049.D

Acq: 4 Apr 2016 20:46

Instrument :

BNA_F

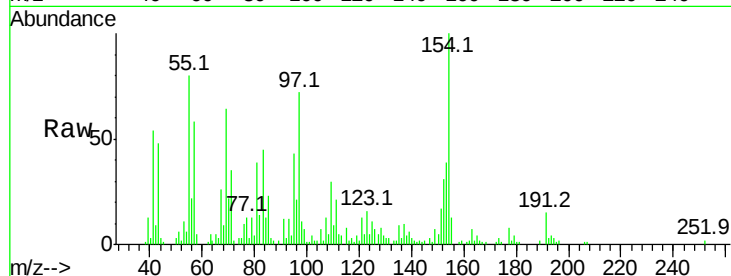
ClientSampleId :

TK2-DUP-20160401

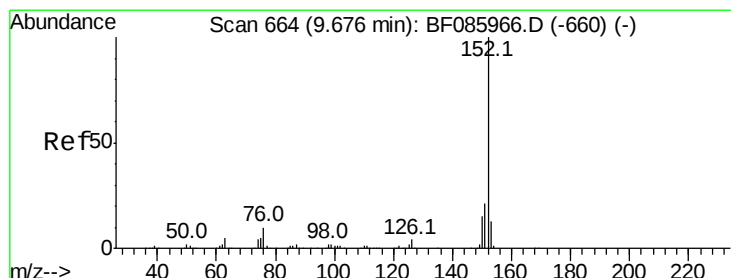
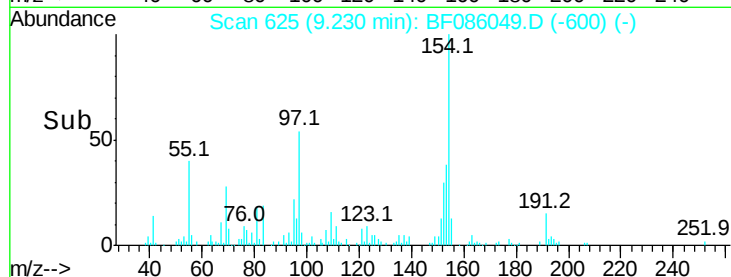
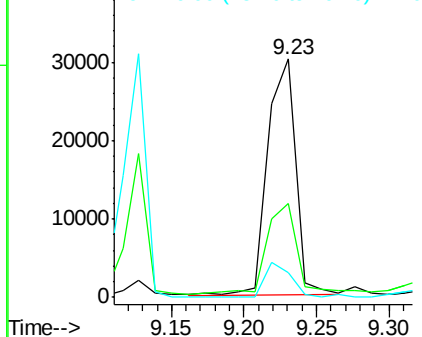
Tot Ion:	154	Resp:	40355
Ion Ratio	Lower	Upper	
154	100		
153	39.5	20.8	60.8
76	10.4	0.0	36.7

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 6.37 ng

RT: 9.66 min Scan# 663

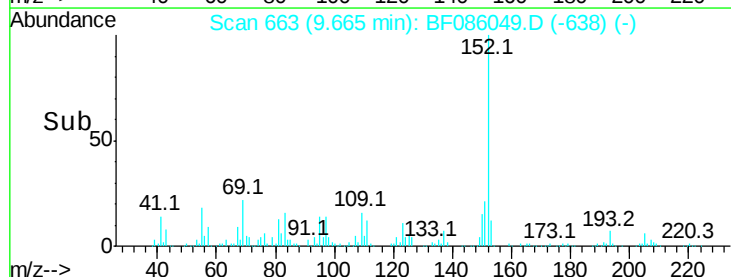
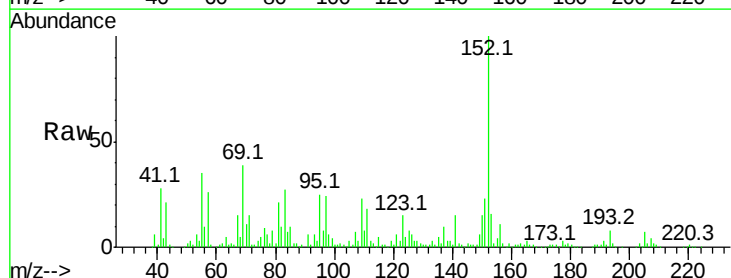
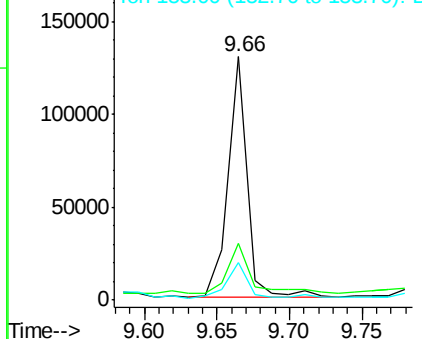
Delta R.T. -0.01 min

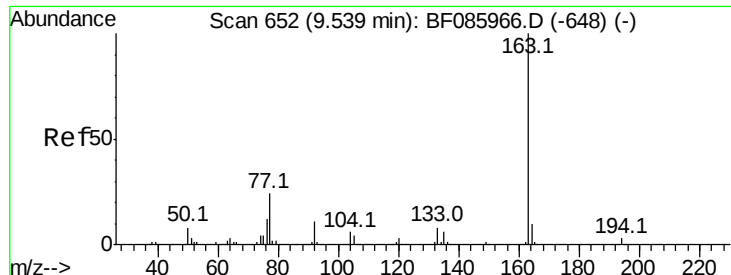
Lab File: BF086049.D

Acq: 4 Apr 2016 20:46

Tgt Ion:	152	Resp:	117625
Ion Ratio	Lower	Upper	
152	100		
151	23.2	16.8	25.2
153	15.5	10.9	16.3

Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





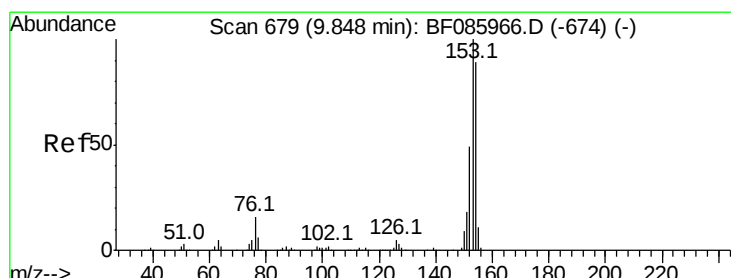
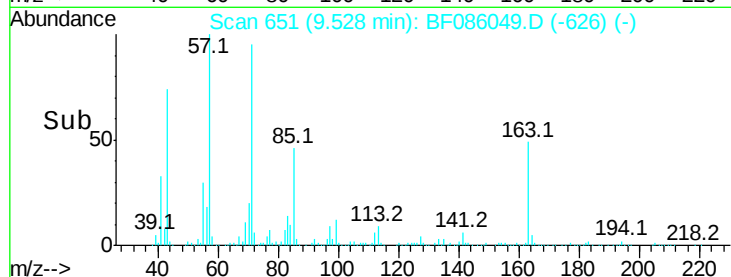
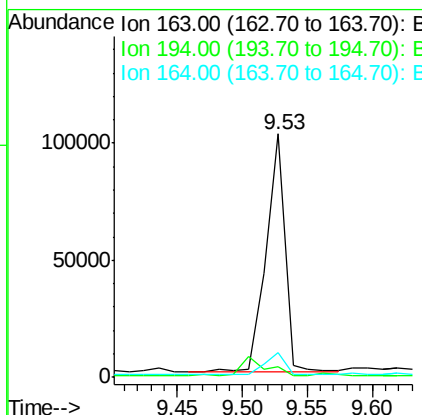
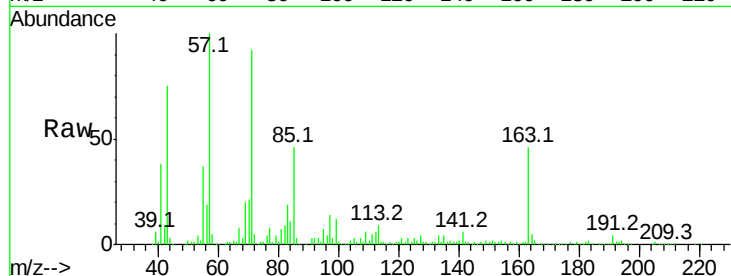
#49
Dimethylphthalate
Concen: 7.71 ng
RT: 9.53 min Scan# 651
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.6	2.9	4.3#	
164	10.3	8.3	12.5	

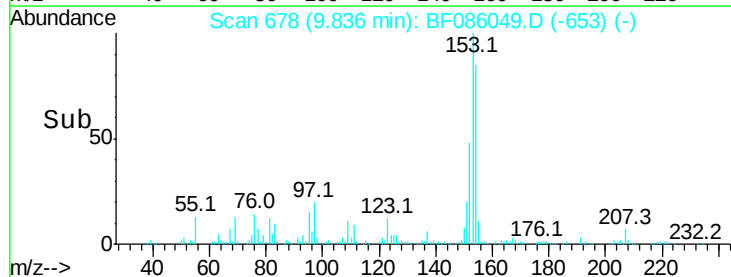
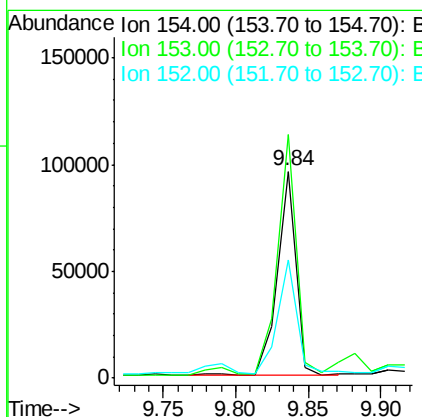
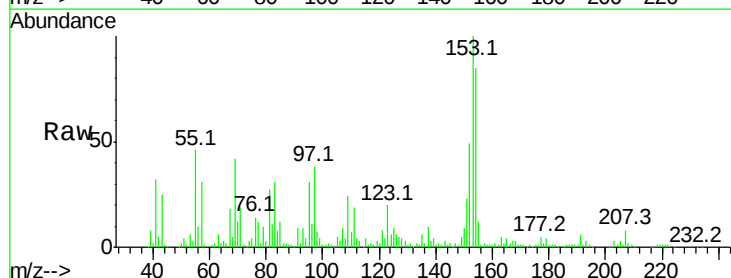
Manual Integrations
APPROVED

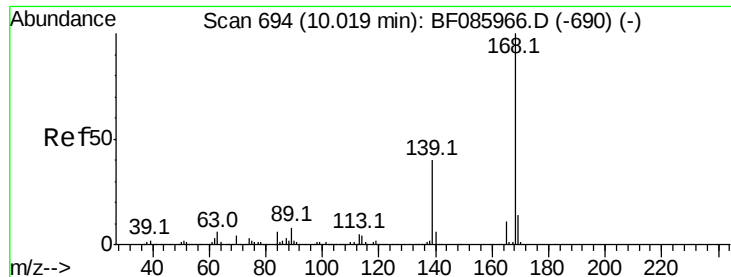
Sohil
4/5/2016 6:39:56 PM



#51
Acenaphthene
Concen: 7.73 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	117.7	90.1	135.1	
152	57.1	44.2	66.2	





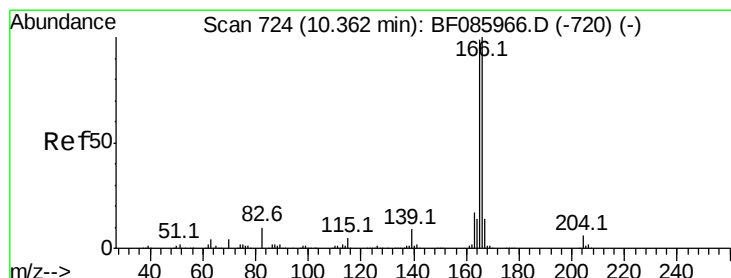
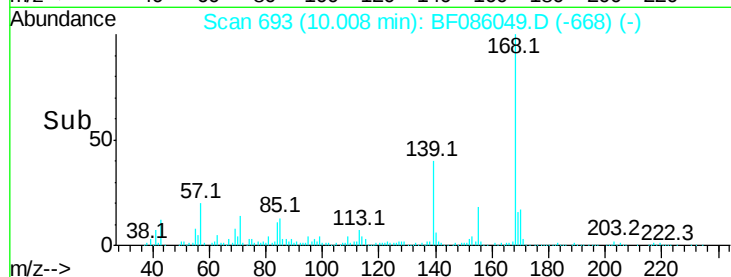
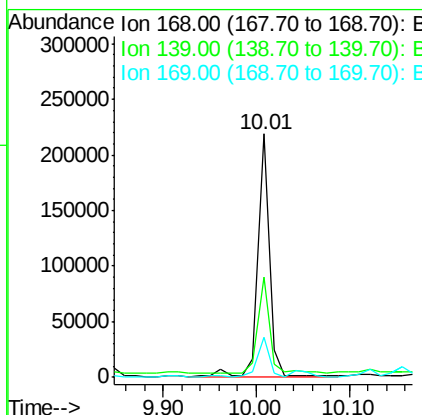
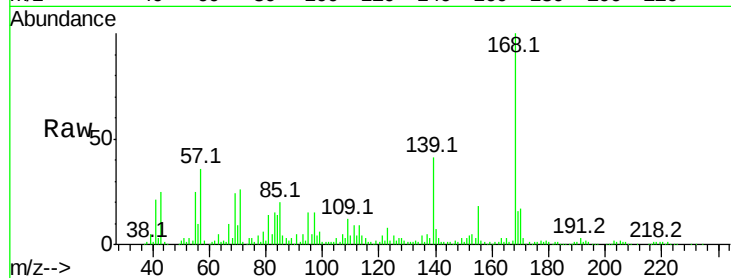
#54
Dibenzenofuran
Concen: 12.83 ng
RT: 10.01 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.4	31.9	47.9
169	16.5	11.0	16.6

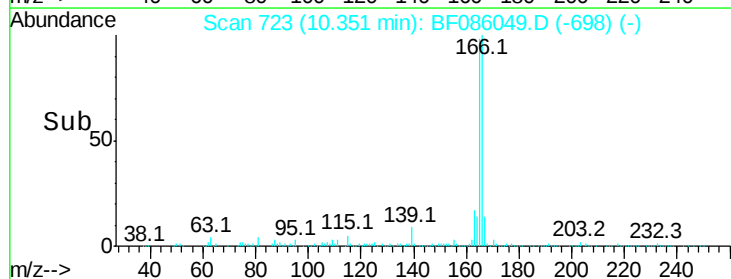
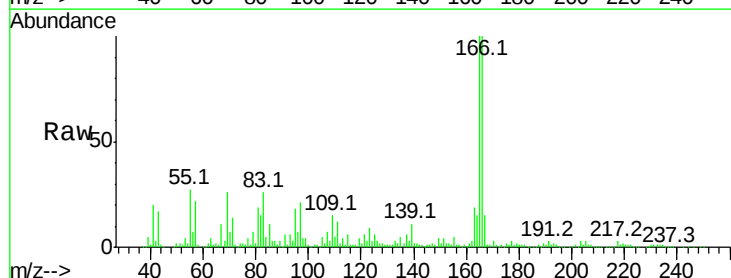
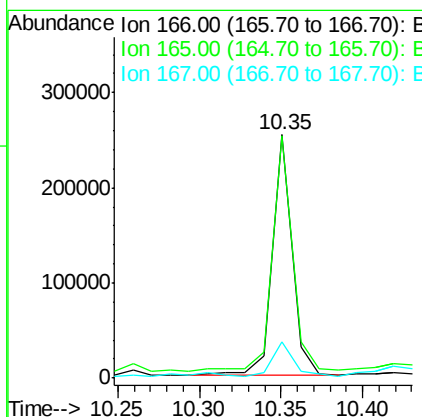
Manual Integrations
APPROVED

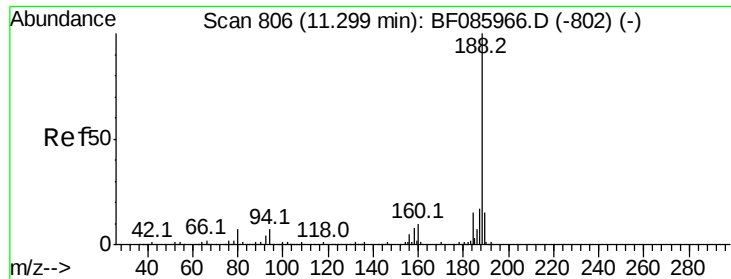
Sohil
4/5/2016 6:39:56 PM



#57
Fluorene
Concen: 17.35 ng
RT: 10.35 min Scan# 723
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.4	119.0
167	14.8	11.0	16.4





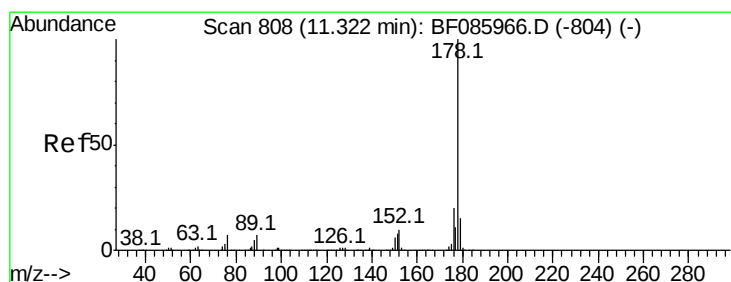
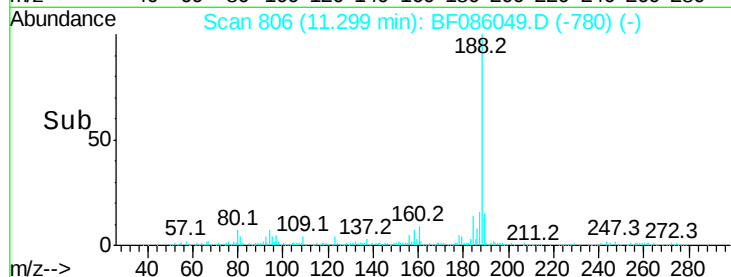
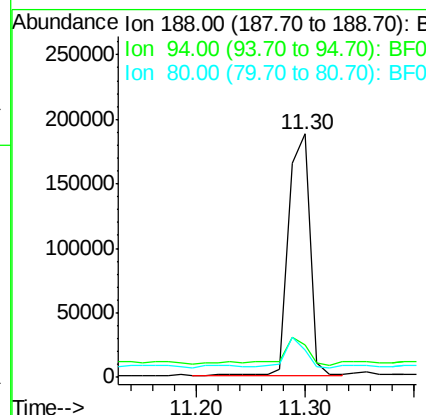
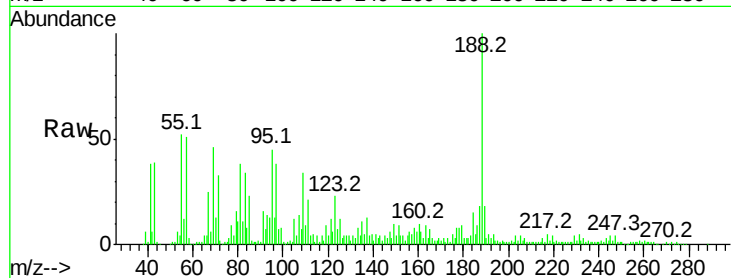
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 806
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Resp	Lower	Upper
188	100	253187		
94	13.2	5.4	8.0#	
80	11.4	5.5	8.3#	

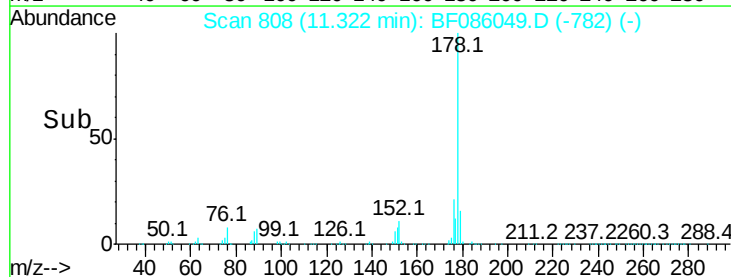
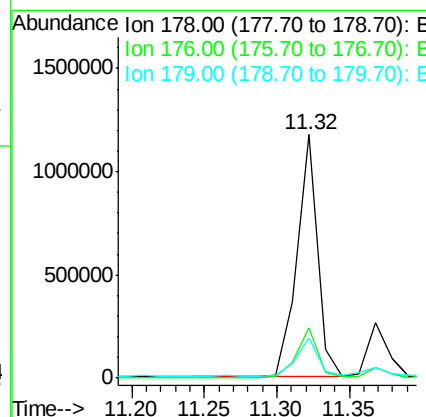
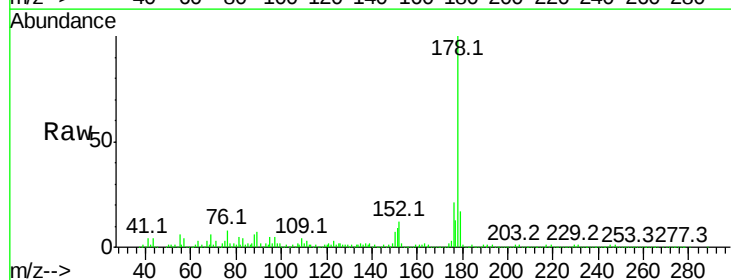
Manual Integrations
APPROVED

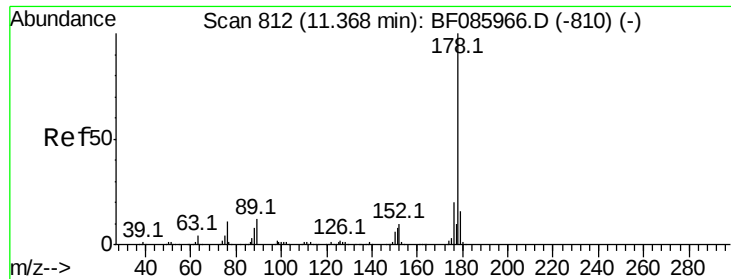
Sohil
4/5/2016 6:39:56 PM



#70
Phenanthrene
Concen: 83.77 ng
RT: 11.32 min Scan# 808
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1157024		
176	20.8	16.3	24.5	
179	16.7	12.6	18.8	





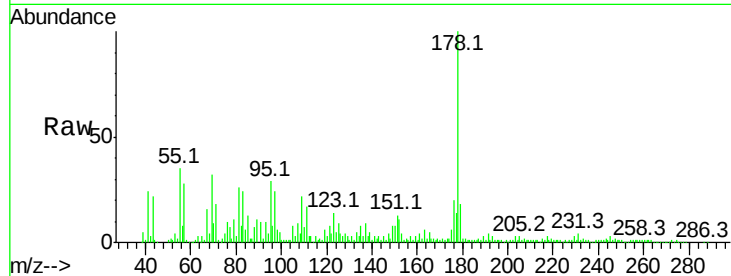
#71
 Anthracene
 Concen: 17.60 ng
 RT: 11.37 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: BF086049.D
 Acq: 4 Apr 2016 20:46

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	18.2	13.0	19.4

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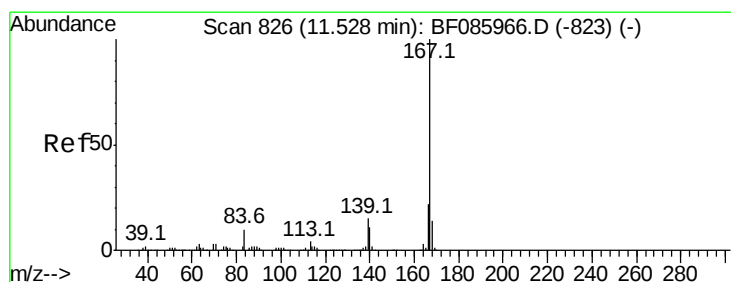
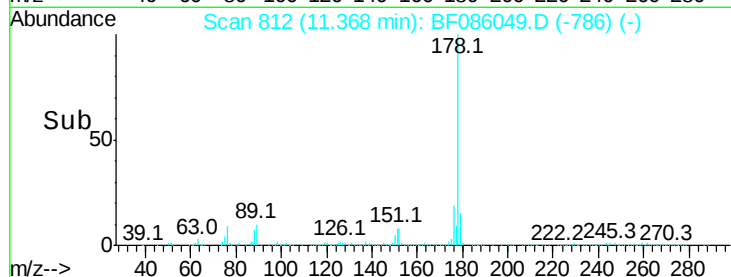
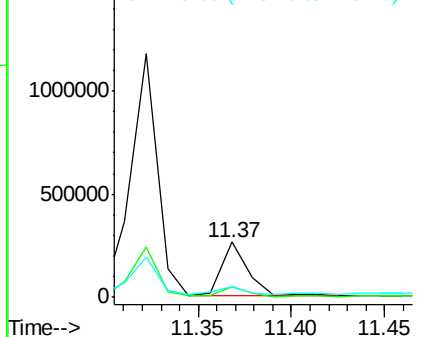


Abundance

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



#72
 Carbazole
 Concen: 8.06 ng
 RT: 11.53 min Scan# 826
 Delta R.T. 0.00 min
 Lab File: BF086049.D
 Acq: 4 Apr 2016 20:46

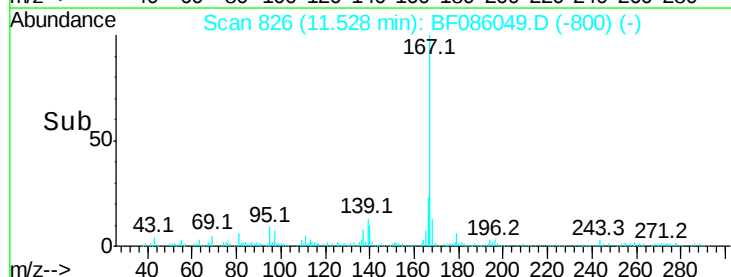
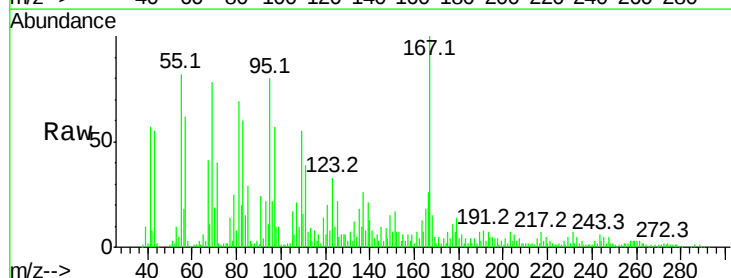
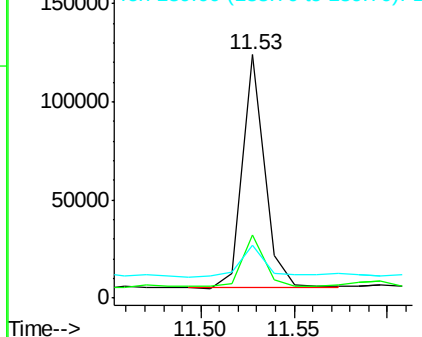
Tgt Ion	Ratio	Lower	Upper
167	100		
166	26.0	17.8	26.8
139	21.5	11.6	17.4

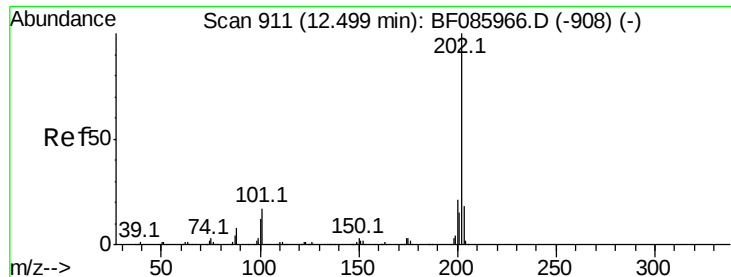
Abundance

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





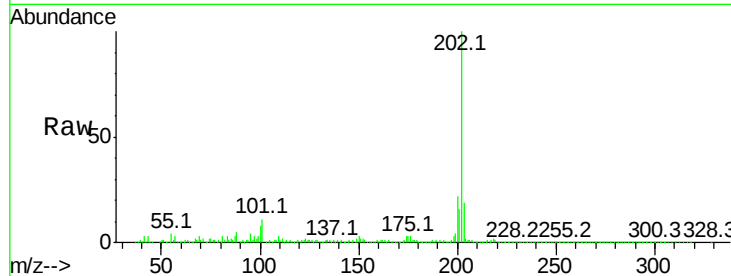
#74
Fluoranthene
Concen: 69.64 ng
RT: 12.51 min Scan# 912
Delta R.T. 0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

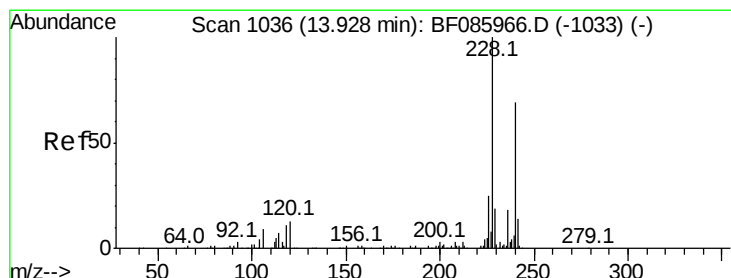
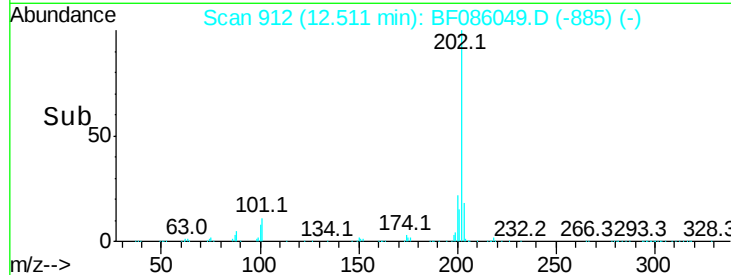
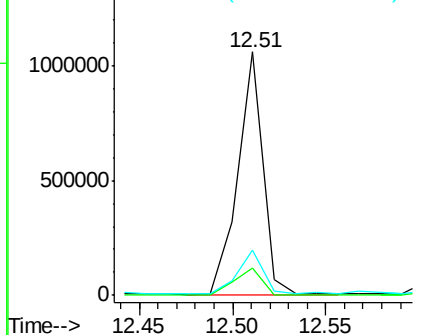
Tot Ion	Ratio	Resp	Lower	Upper
202	100	1000541		
101	11.1		0.0	36.6
203	18.6		0.0	38.1

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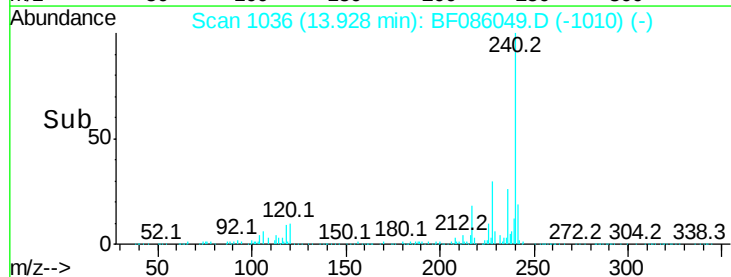
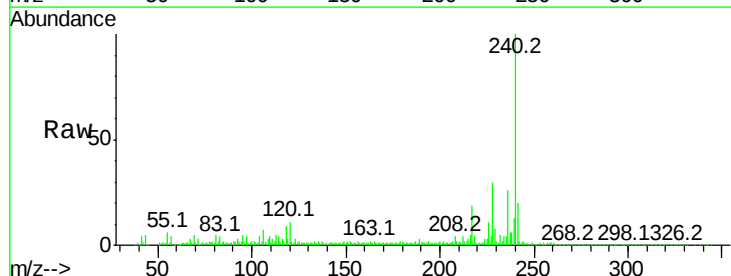
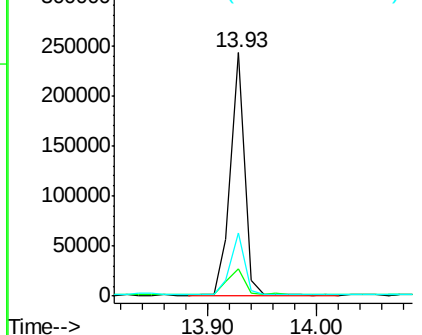
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

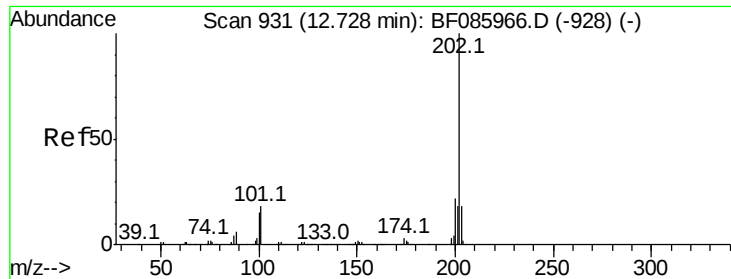


#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.93 min Scan# 1036
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	217597		
120	11.1		13.8	20.8#
236	26.2		20.6	30.8

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





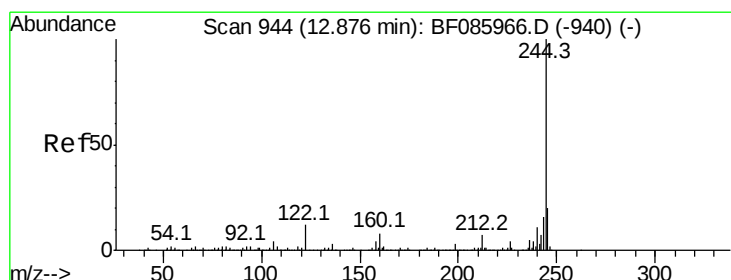
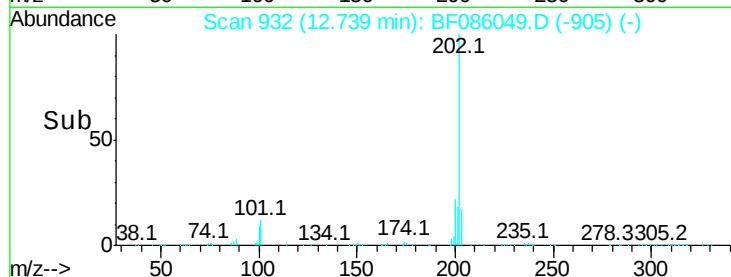
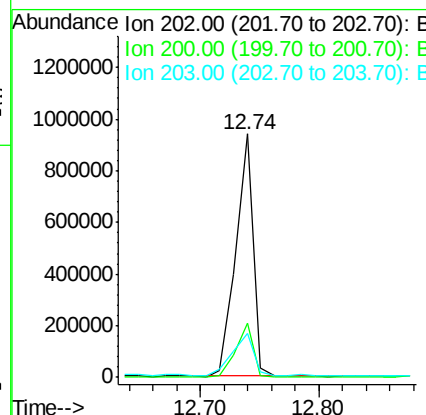
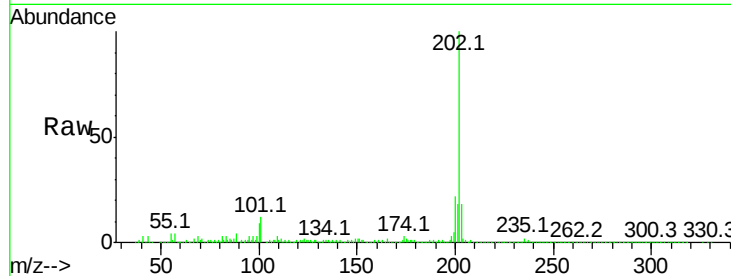
#77
Pvrene
Concen: 62.50 ng
RT: 12.74 min Scan# 932
Delta R.T. 0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.2	17.6	26.4
203	18.1	14.0	21.0

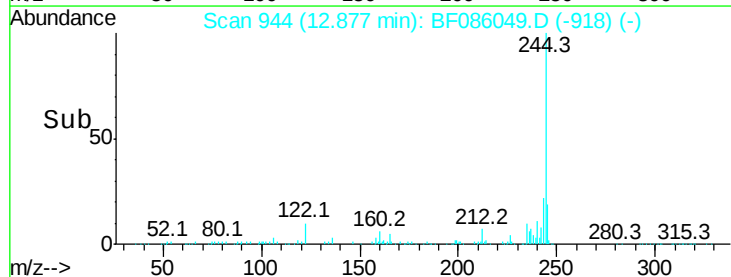
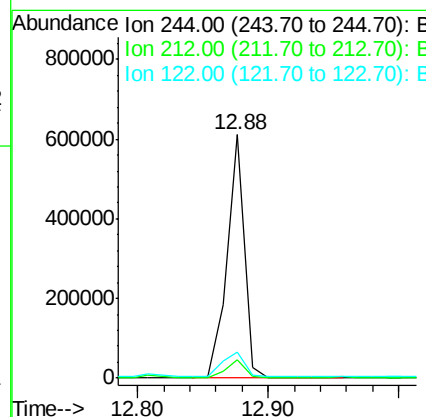
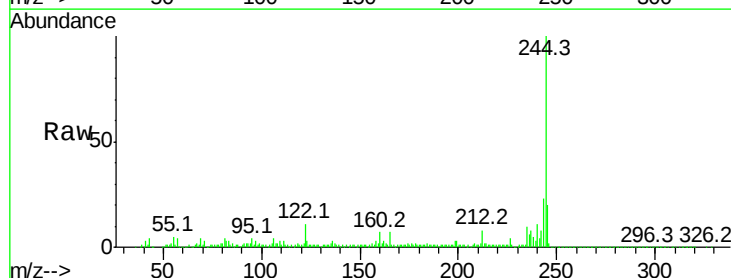
Manual Integrations
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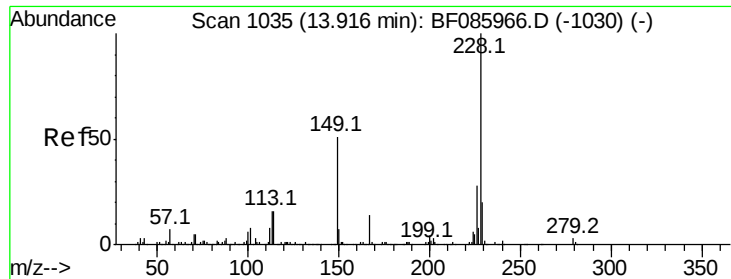
Sohil
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#78
Terphenyl-d14
Concen: 60.92 ng
RT: 12.88 min Scan# 944
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.6	6.1	9.1
122	10.6	10.2	15.4





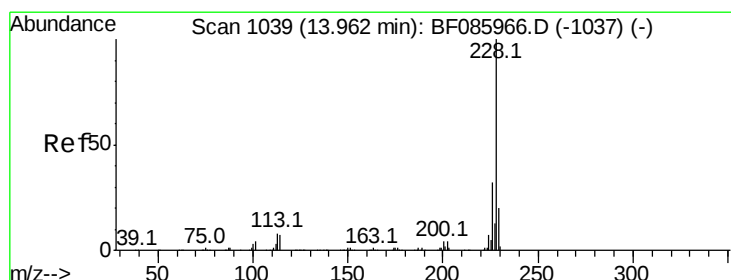
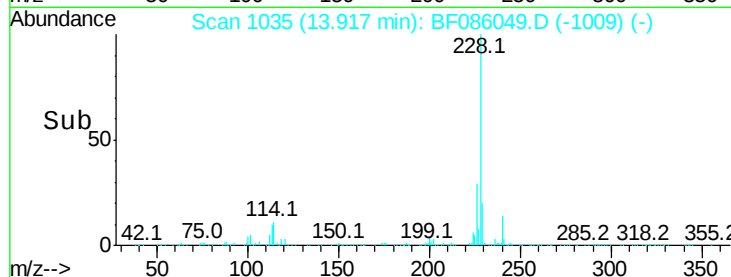
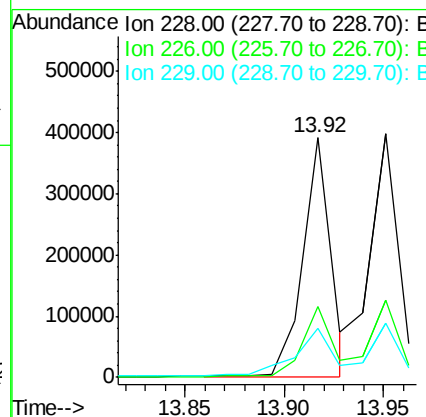
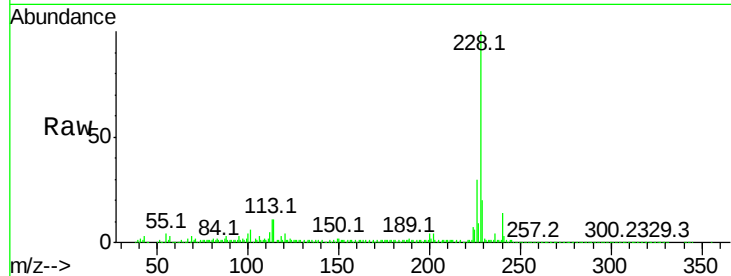
#80
Benzo(a)anthracene
Concen: 30.44 ng m
RT: 13.92 min Scan# 1035
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Resp	Lower	Upper
228	100	390393		
226	29.6	22.1	33.1	
229	20.5	16.2	24.4	

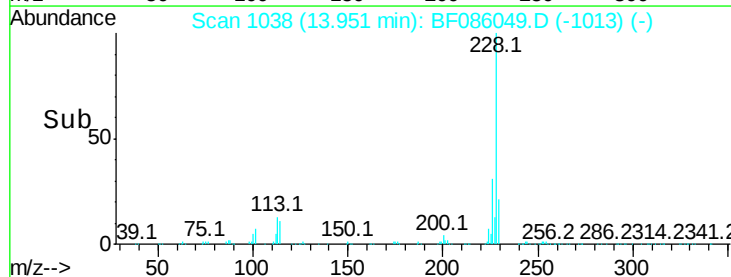
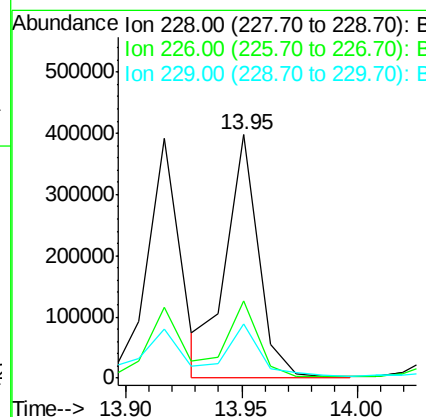
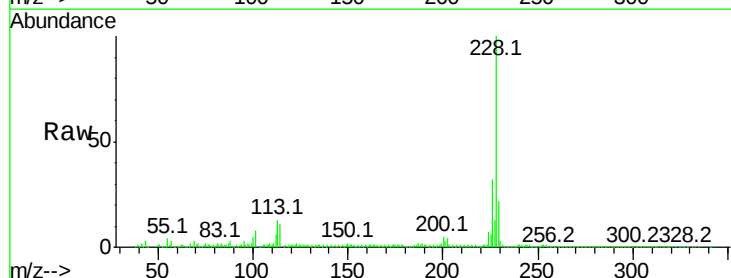
Manual Integrations
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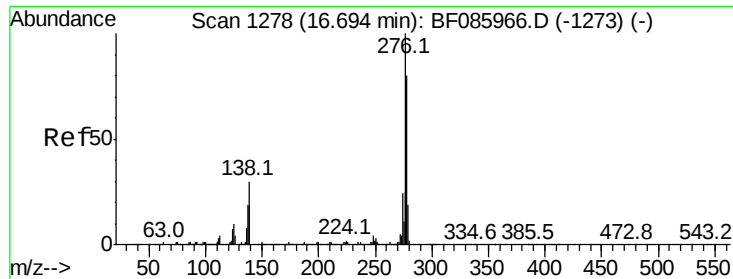
Sohil
4/5/2016 6:39:56 PM



#82
Chrysene
Concen: 31.69 ng m
RT: 13.95 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	391488		
226	31.9	25.0	37.6	
229	22.1	15.7	23.5	





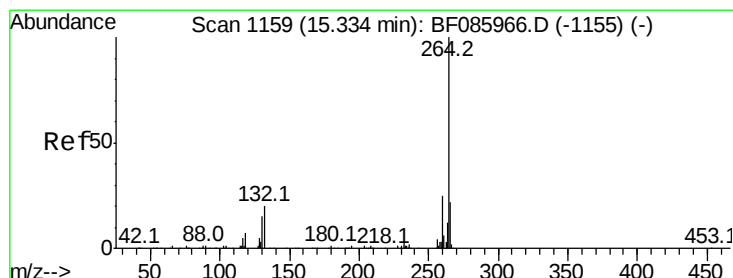
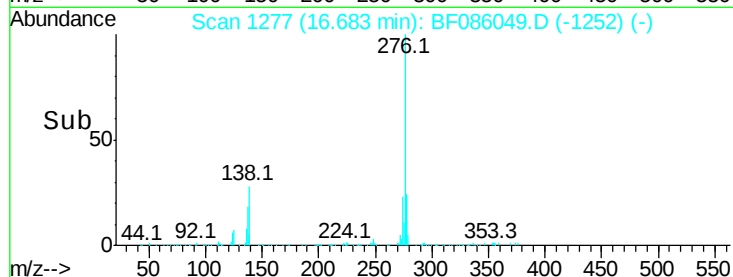
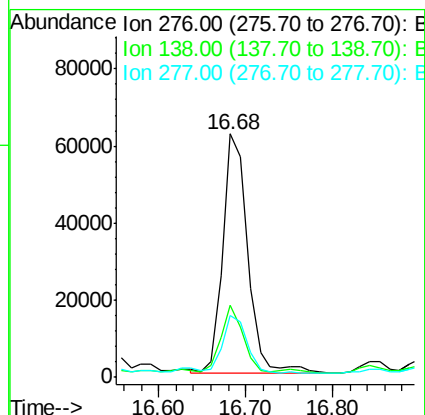
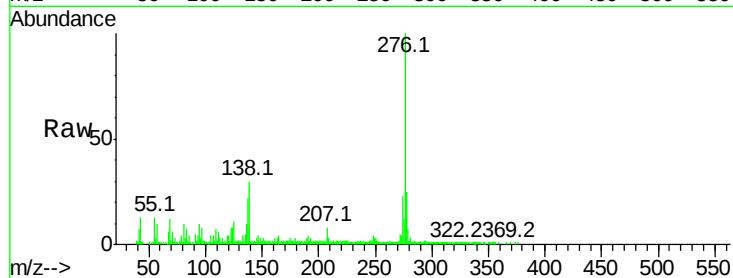
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.56 ng
RT: 16.68 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion:	276	Resp:	125949
Ion Ratio	Lower	Upper	
276	100		
138	24.7	24.2	36.4
277	25.0	20.0	30.0

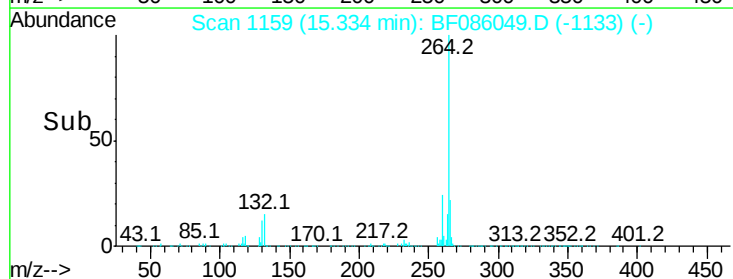
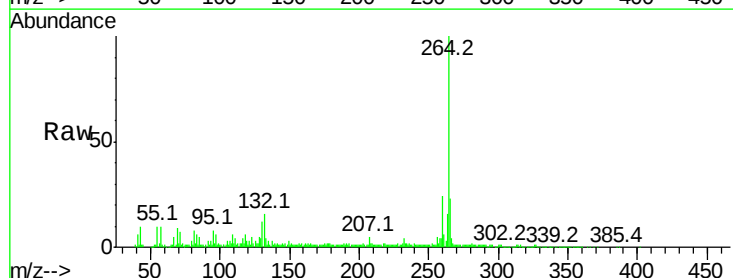
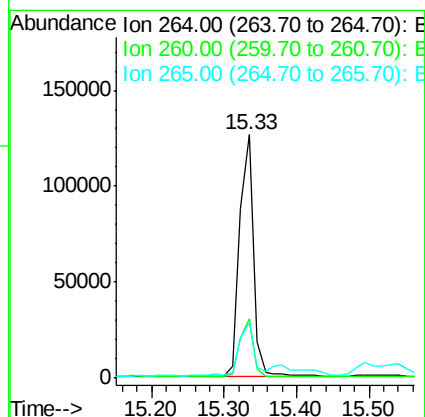
Manual Integrations
APPROVED

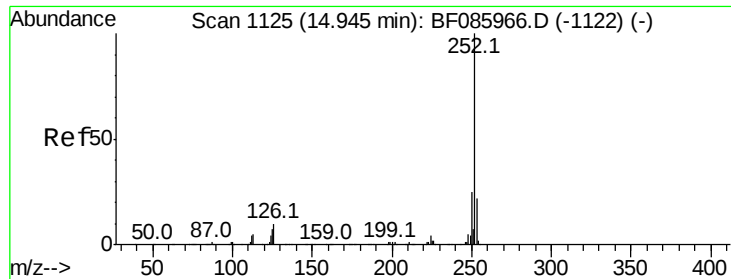
Sohil
4/5/2016 6:39:56 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion:	264	Resp:	170616
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.4	29.2
265	22.6	17.2	25.8





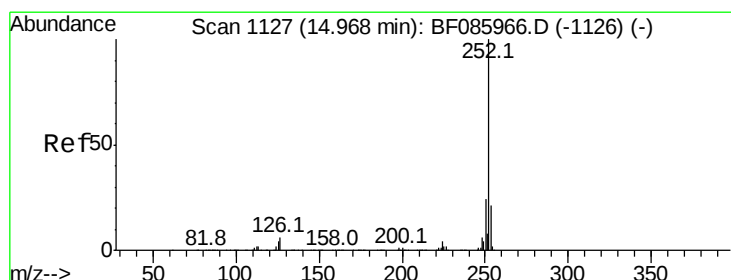
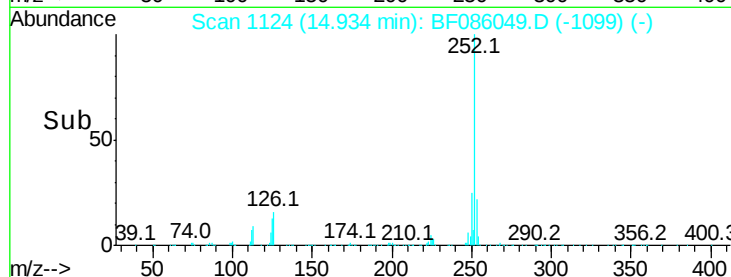
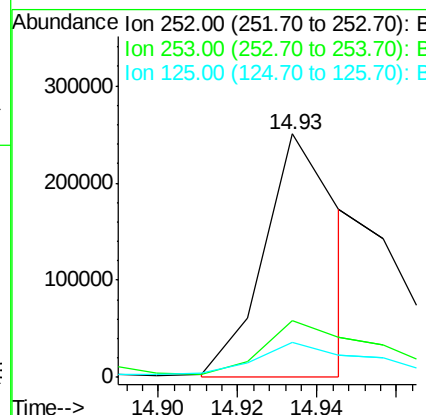
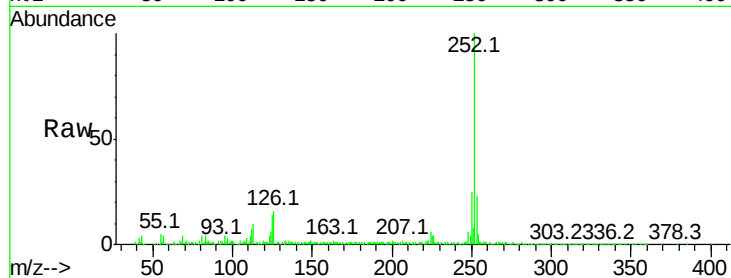
#87
Benzo(b)fluoranthene
Concen: 30.96 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	14.2	10.3	15.5

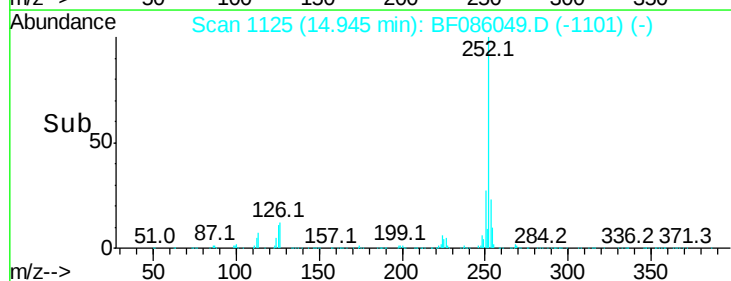
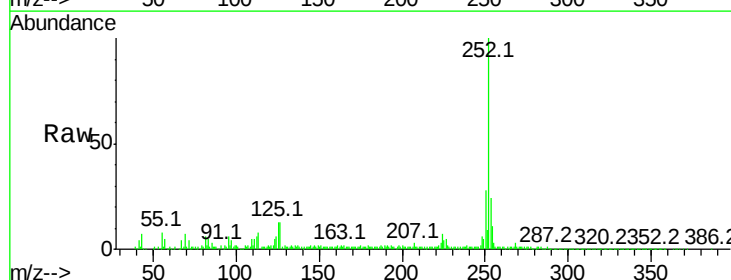
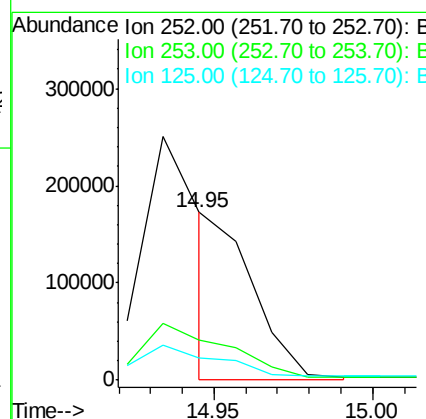
Manual Integrations
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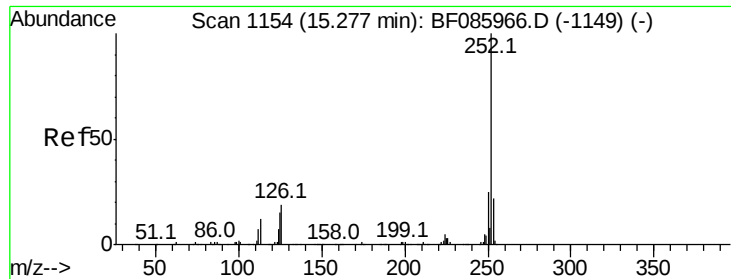
Sohil
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#88
Benzo(k)fluoranthene
Concen: 14.52 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	13.4	7.7	11.5





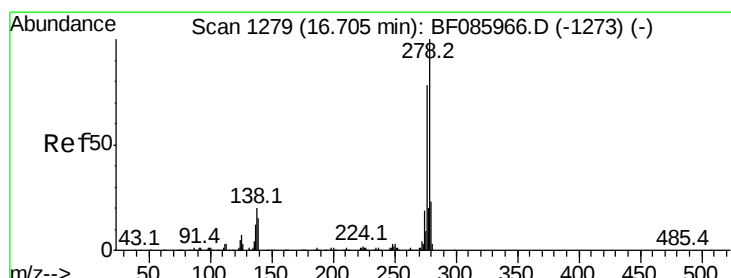
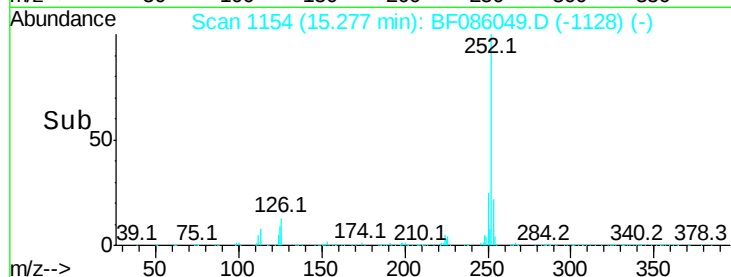
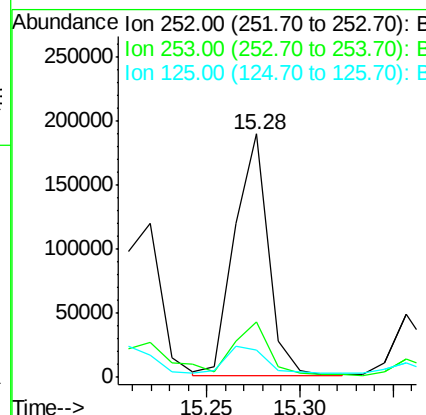
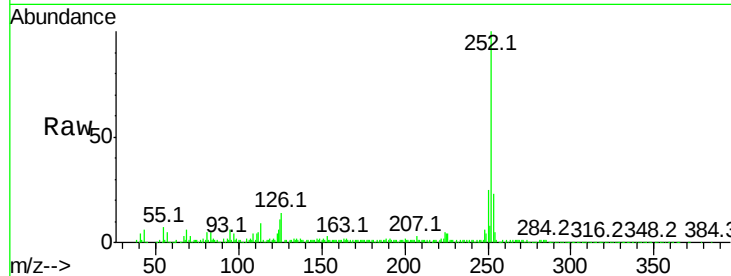
#89
Benzo(a)pyrene
Concen: 24.94 ng
RT: 15.28 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	11.1	10.3	15.5

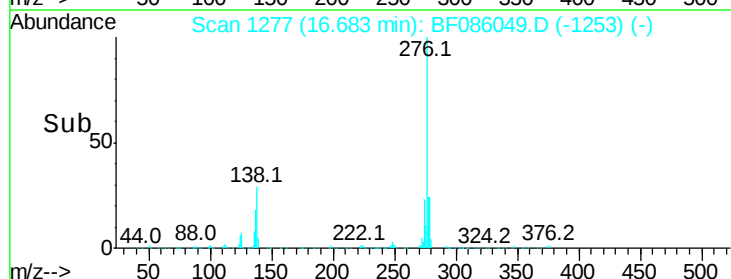
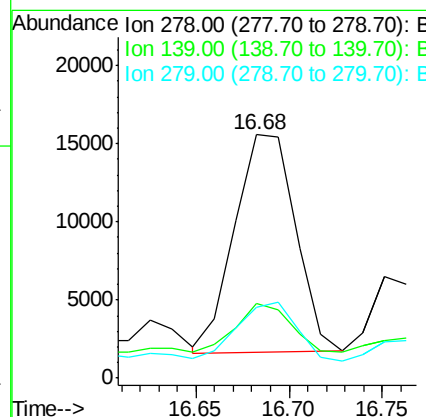
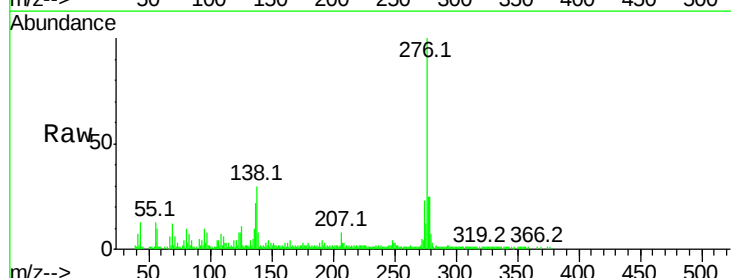
Manual Integrations
APPROVED

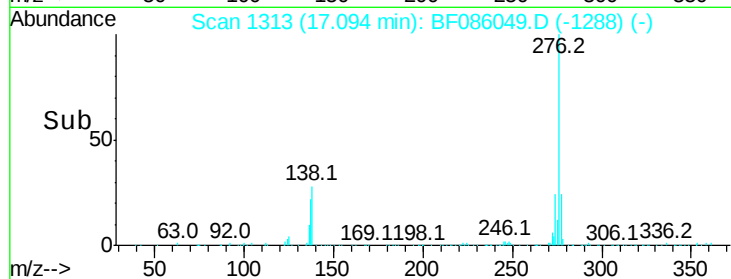
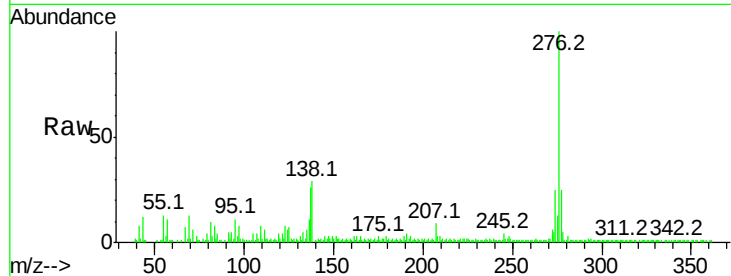
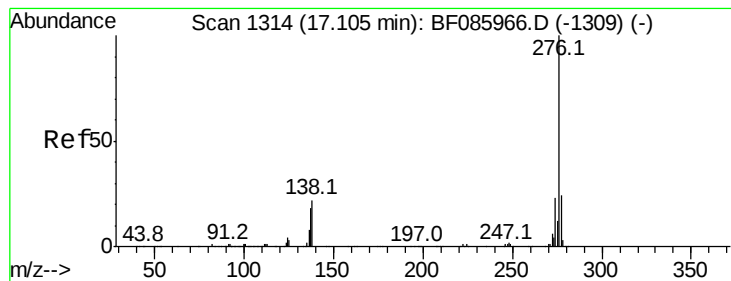
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 4.13 ng
RT: 16.68 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF086049.D
Acq: 4 Apr 2016 20:46

Tgt Ion	Ratio	Lower	Upper
278	100		
139	30.6	14.4	21.6#
279	29.0	19.1	28.7#





#91

Benzo(a,h,i)perylene

Concen: 15.66 ng

RT: 17.09 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF086049.D

Acq: 4 Apr 2016 20:46

Instrument :

BNA_F

ClientSampleId :

TK2-DUP-20160401

Tot Ion:	276	Resp:	115978
Ion Ratio	Lower	Upper	
276	100		
277	25.4	18.8	28.2
138	28.8	22.6	34.0

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:56 PM

