

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
 Data File : BF088933.D
 Acq On : 12 Jul 2016 21:58
 Operator : UM/SJ
 Sample : H3934-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C2.3-02

Manual Integrations

APPROVED
 SOHIL
 7/13/2016 9:25:40 AM

Quant Time: Jul 13 03:53:58 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	67156	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	247380	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	103305	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	158471	20.00	ng	-0.01
75) Chrysene-d12	13.84	240	126768	20.00	ng	-0.01
86) Perylene-d12	15.21	264	120119	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	456389	101.85	ng	0.01
7) Phenol-d6	6.36	99	641151	110.74	ng	0.01
23) Nitrobenzene-d5	7.27	82	378343	80.15	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	92630	96.56	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	621874	95.09	ng	0.00
78) Terphenyl-d14	12.80	244	320522	56.32	ng	0.00
Target Compounds						Qvalue
6) Aniline	6.34	93	20721	2.46	ng	# 76
48) Acenaphthylene	9.60	152	26434	2.47	ng	98
49) Dimethylphthalate	9.46	163	109337	14.86	ng	99
70) Phenanthrene	11.23	178	27892	3.22	ng	98
71) Anthracene	11.29	178	24863	2.89	ng	97
74) Fluoranthene	12.42	202	103232	11.75	ng	96
77) Pyrene	12.65	202	89690	8.34	ng	99
80) Benzo(a)anthracene	13.83	228	50214m	6.15	ng	
82) Chrysene	13.86	228	84539m	10.47	ng	
85) Indeno(1,2,3-cd)pyrene	16.50	276	37083	5.97	ng	# 100
87) Benzo(b)fluoranthene	14.83	252	113971m	15.13	ng	
88) Benzo(k)fluoranthene	14.85	252	48795m	7.44	ng	
89) Benzo(a)pyrene	15.15	252	49944	7.83	ng	94
90) Dibenzo(a,h)anthracene	16.51	278	12311	2.31	ng	# 81
91) Benzo(a,h,i)perylene	16.89	276	33987	6.17	ng	96

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

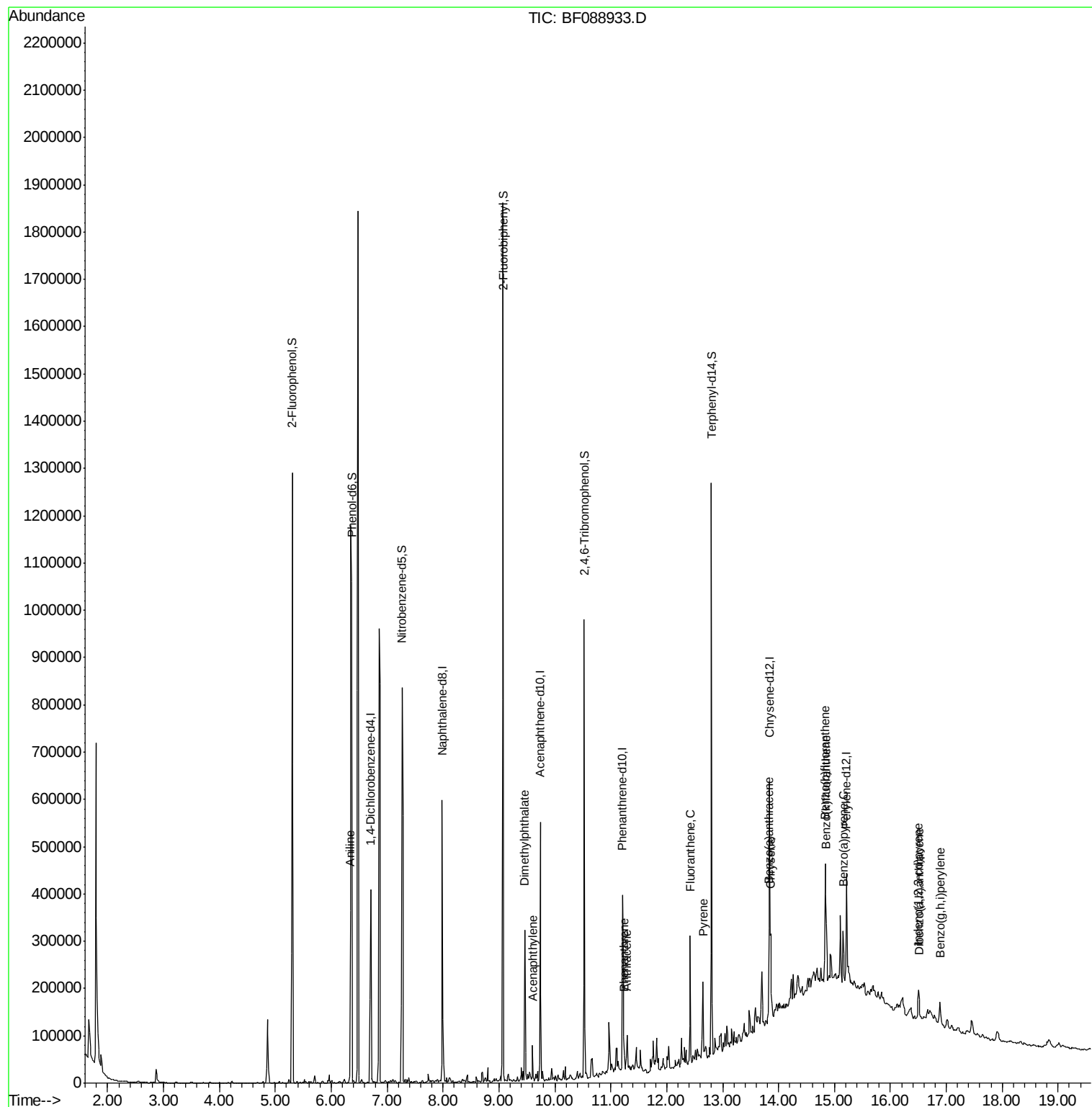
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088933.D
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Manual Integrations

Quant Time: Jul 13 03:53:58 2016
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#1

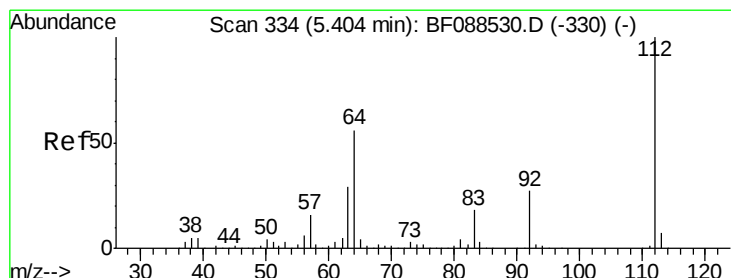
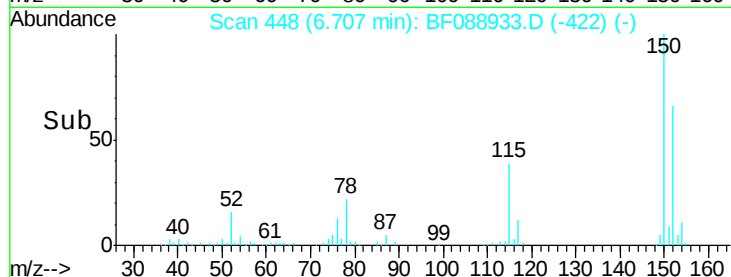
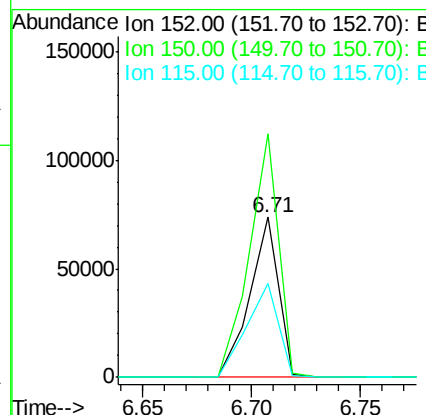
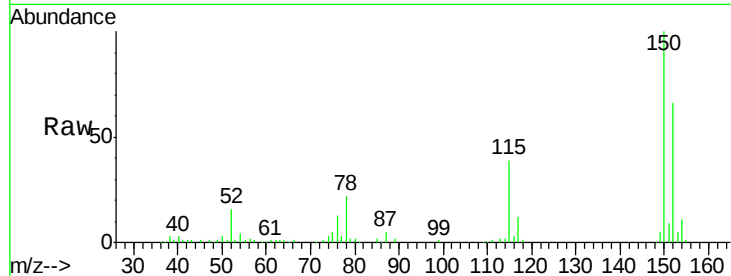
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 448
Delta R.T. -0.00 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampled :
C2.3-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	123.8	185.6
115	58.6	39.6	59.4

Manual Integrations

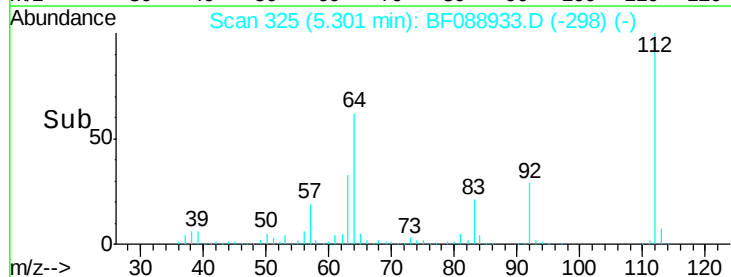
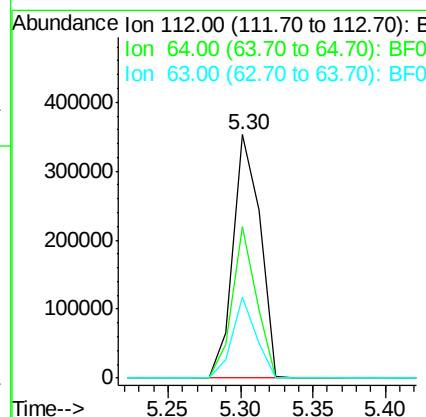
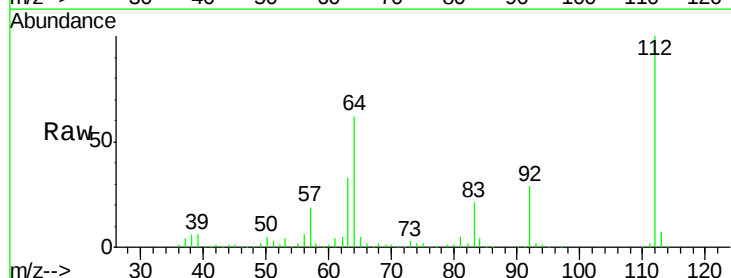
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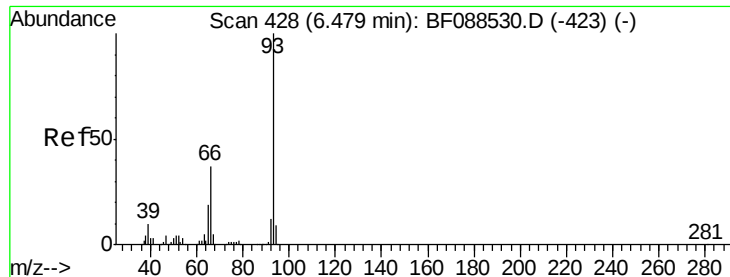


#5

2-Fluorophenol
Concen: 101.85 ng
RT: 5.30 min Scan# 325
Delta R.T. 0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.0	42.2	63.2
63	33.3	21.8	32.8





#6

Aniline

Concen: 2.46 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.03 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Instrument :

BNA_F

ClientSampleId :

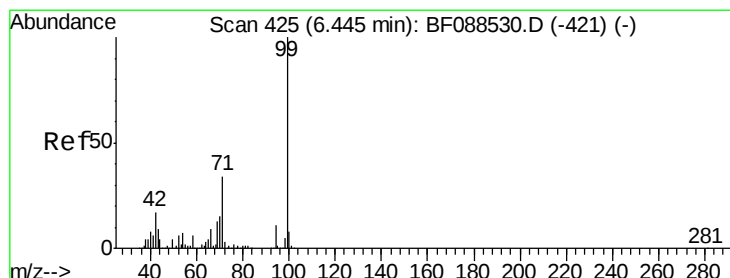
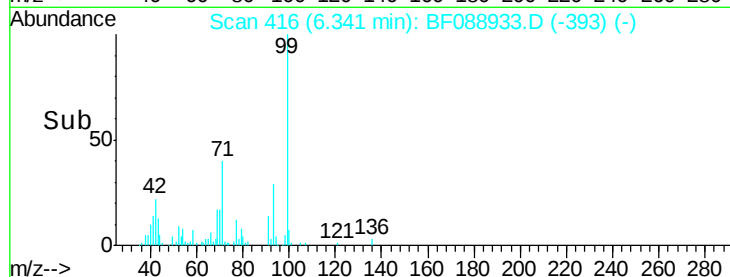
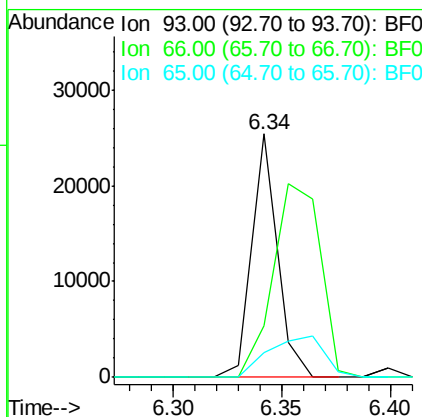
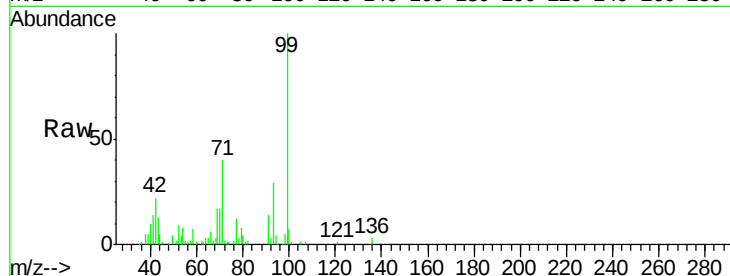
C2.3-02

Tot Ion:	93	Resp:	20721
Ion Ratio	Lower	Upper	
93	100		
66	21.3	29.8	44.8#
65	10.3	14.9	22.3#

Manual Integrations

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#7

Phenol-d6

Concen: 110.74 ng

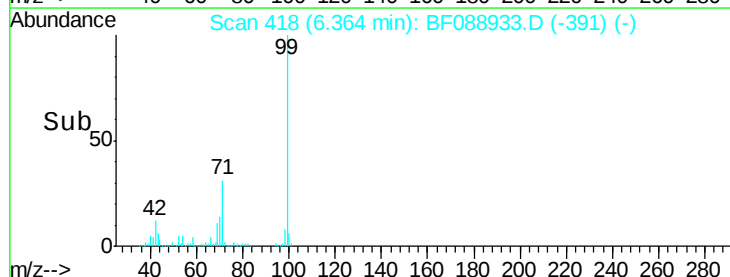
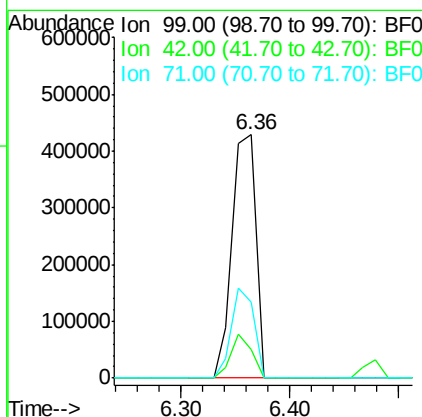
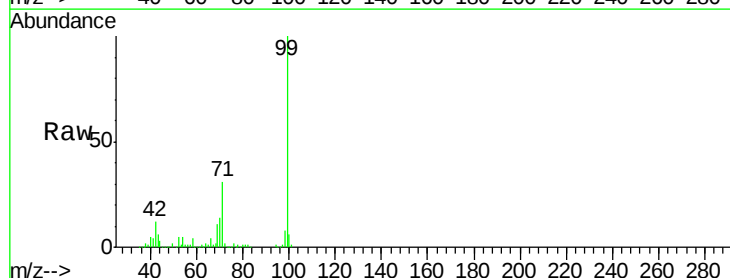
RT: 6.36 min Scan# 418

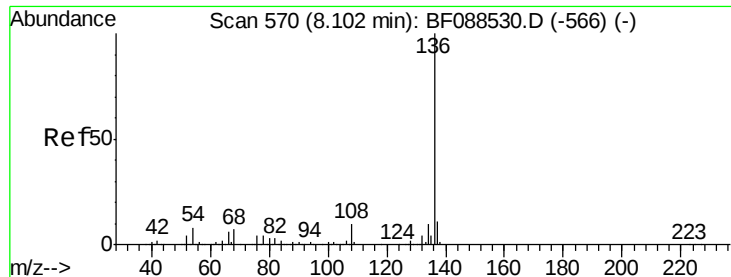
Delta R.T. 0.01 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Tgt Ion:	99	Resp:	641151
Ion Ratio	Lower	Upper	
99	100		
42	11.9	12.2	18.2#
71	30.9	23.4	35.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.99 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Instrument :

BNA_F

ClientSampleId :

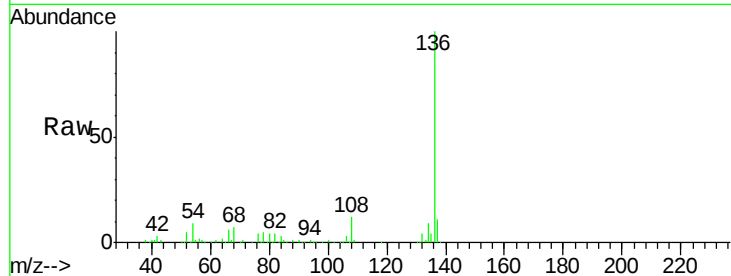
C2.3-02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		247380		
137	11.1		9.1	13.7	
54	8.9		6.6	10.0	
68	6.7		5.1	7.7	

Manual Integrations

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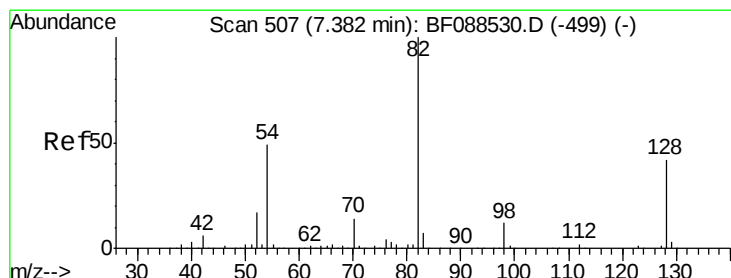
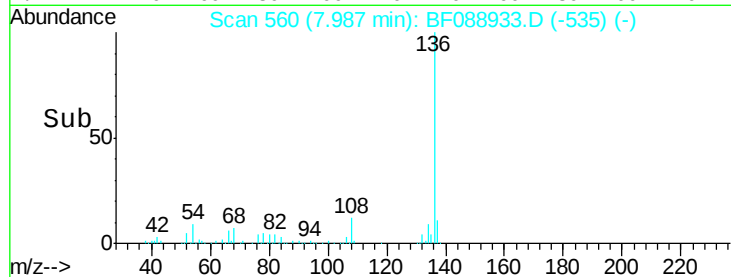
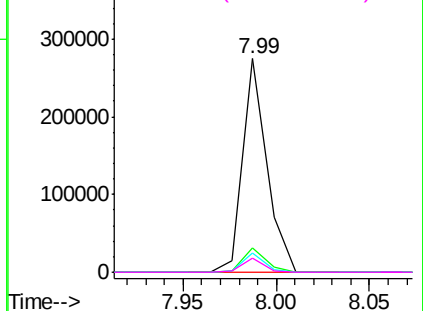


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 80.15 ng

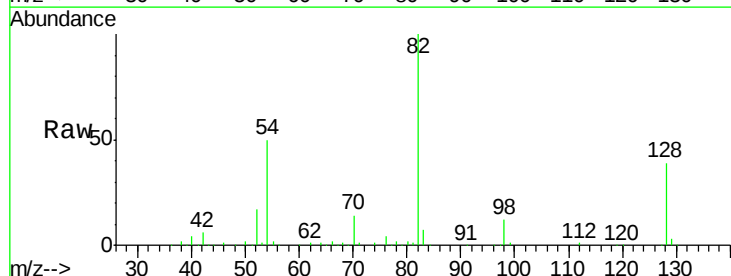
RT: 7.27 min Scan# 497

Delta R.T. -0.01 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

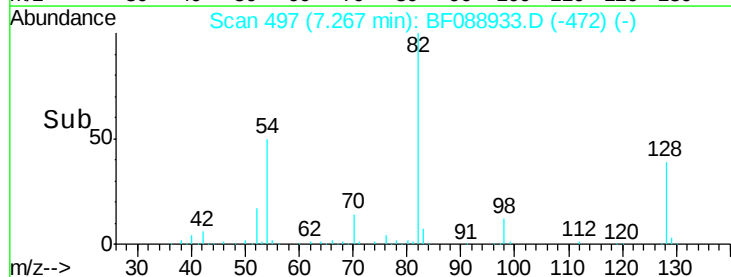
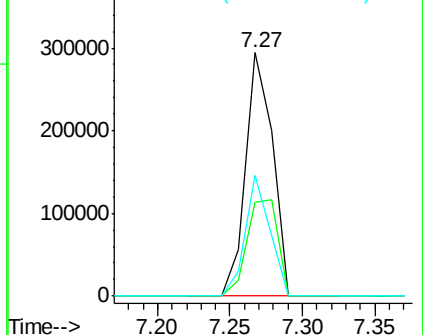
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		378343		
128	38.6		35.9	53.9	
54	49.6		40.9	61.3	

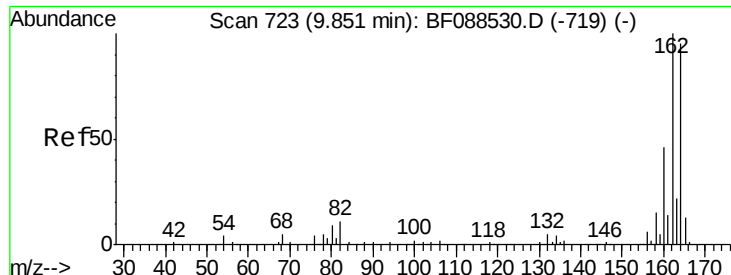


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





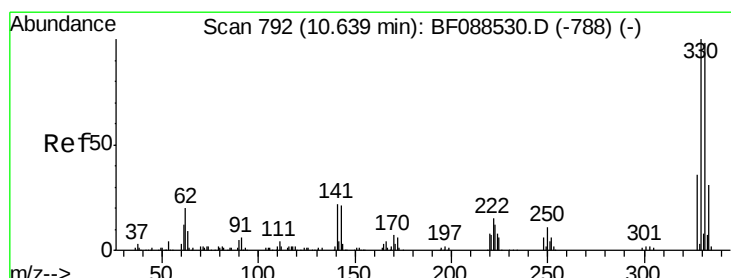
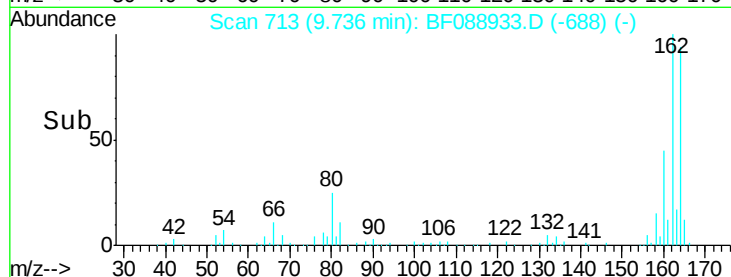
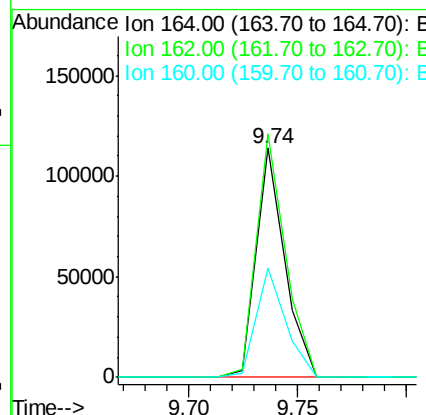
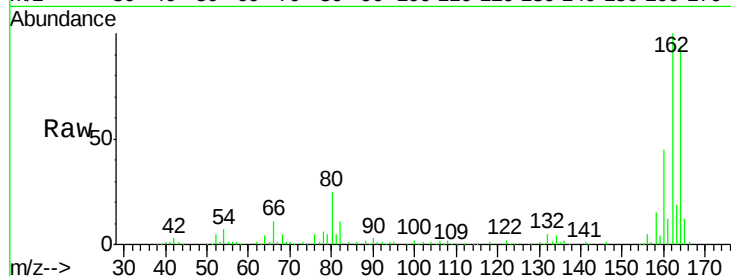
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.74 min Scan# 713
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampleId :
C2.3-02

Tot Ion	Ratio	Lower	Upper
164	100		
162	106.3	85.4	128.2
160	47.8	39.5	59.3

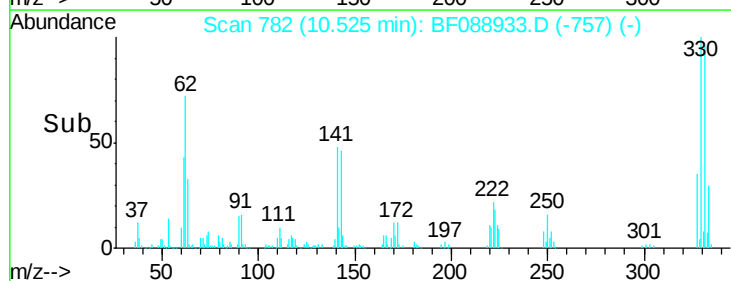
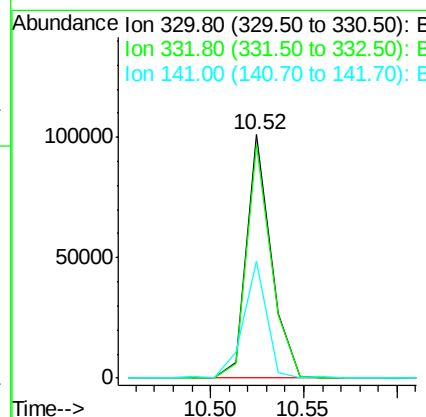
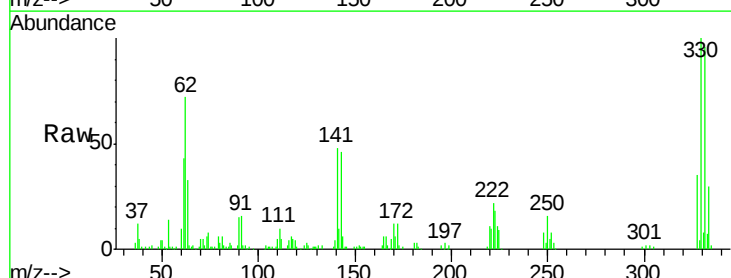
Manual Integrations

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#41
2,4,6-Tribromophenol
Concen: 96.56 ng
RT: 10.52 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	0.0	0.0#
141	48.0	0.0	0.0#





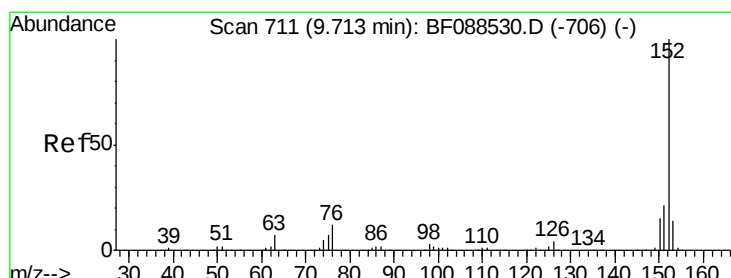
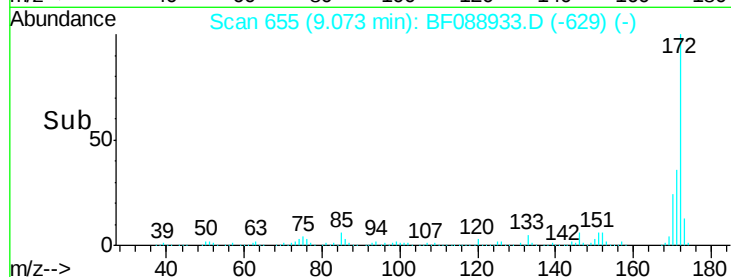
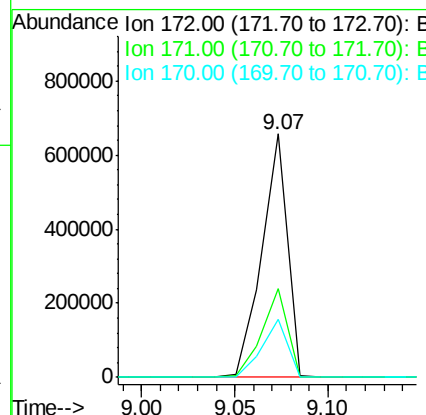
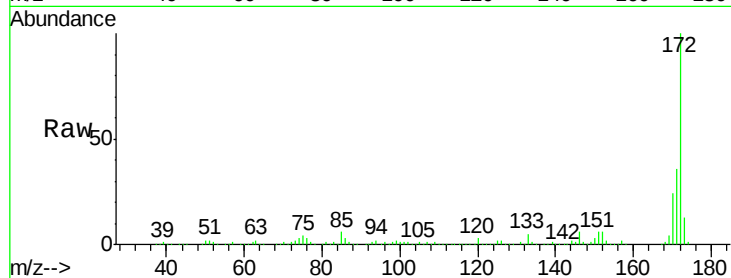
#44
2-Fluorobiphenyl
Concen: 95.09 ng
RT: 9.07 min Scan# 655
Delta R.T. -0.00 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampleId :
C2.3-02

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	23.8	19.2	28.8

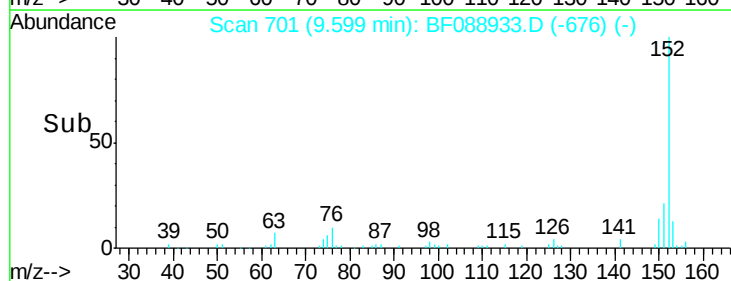
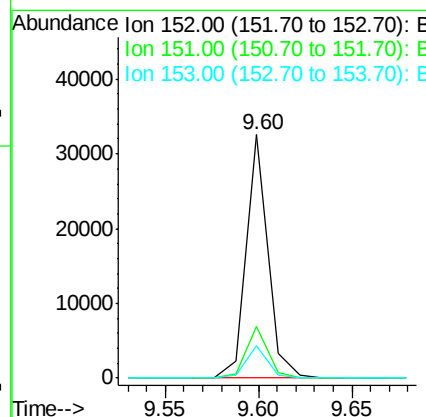
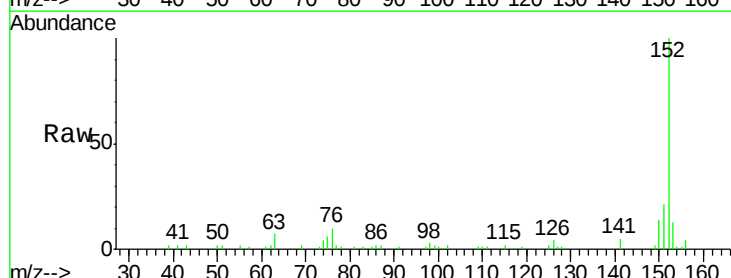
Manual Integrations

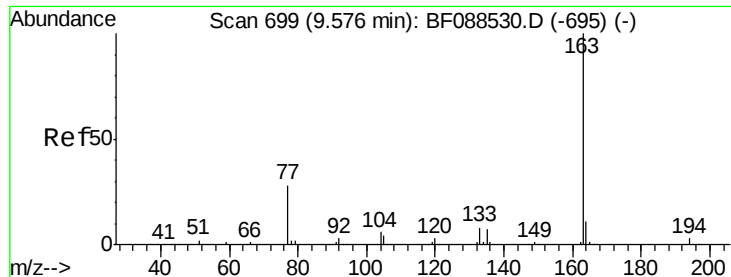
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#48
Acenaphthylene
Concen: 2.47 ng
RT: 9.60 min Scan# 701
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.2	24.4
153	13.3	11.0	16.6





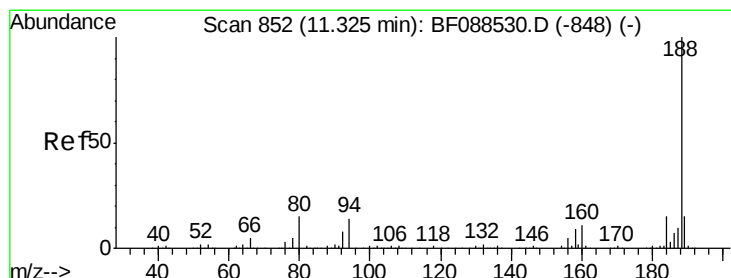
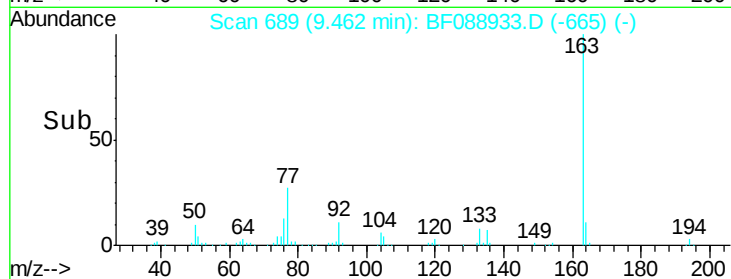
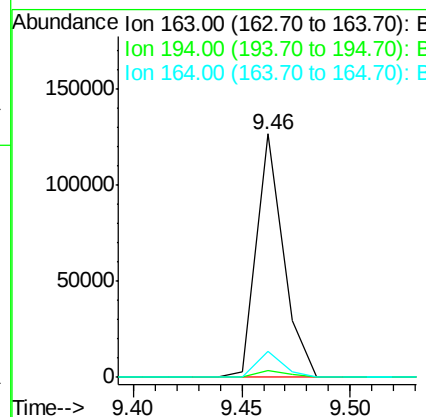
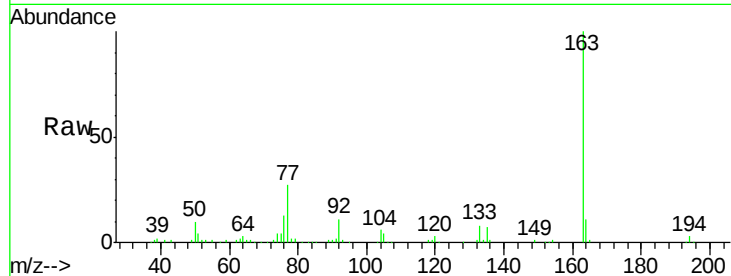
#49
Dimethylphthalate
Concen: 14.86 ng
RT: 9.46 min Scan# 689
Delta R.T. -0.02 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampleId :
C2.3-02

Tot Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.8	4.2
164	10.5	8.3	12.5

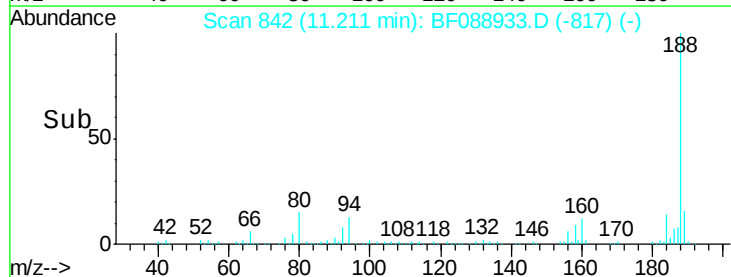
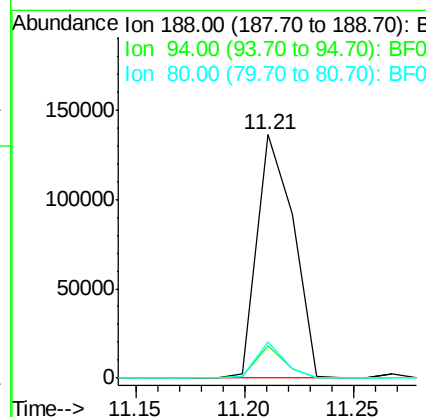
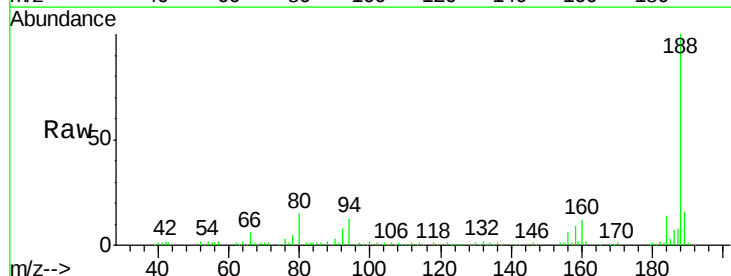
Manual Integrations

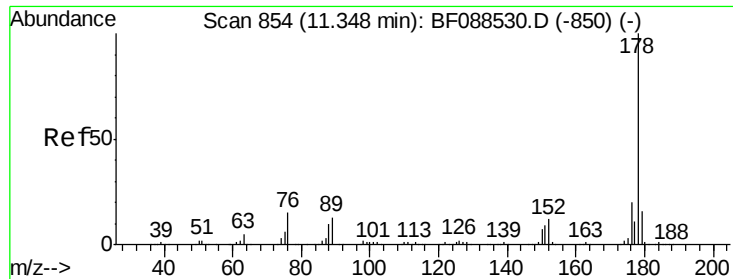
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Tgt Ion	Ratio	Lower	Upper
188	100		
94	13.2	9.0	13.6
80	15.1	10.0	15.0





#70

Phenanthrene

Concen: 3.22 ng

RT: 11.23 min Scan# 844

Delta R.T. -0.01 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Instrument :

BNA_F

ClientSampleId :

C2.3-02

Tot Ion:178 Resp: 27892

Ion Ratio Lower Upper

178 100

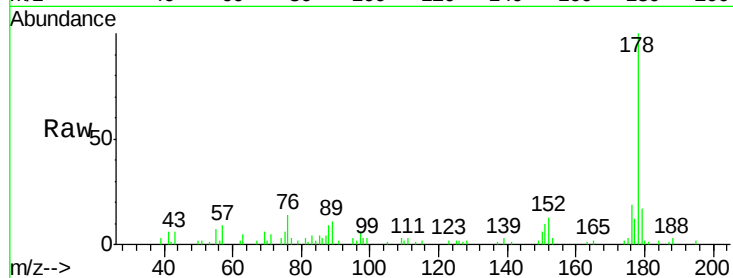
176 18.9 15.8 23.6

179 16.8 13.0 19.4

Manual Integrations

SOHIL

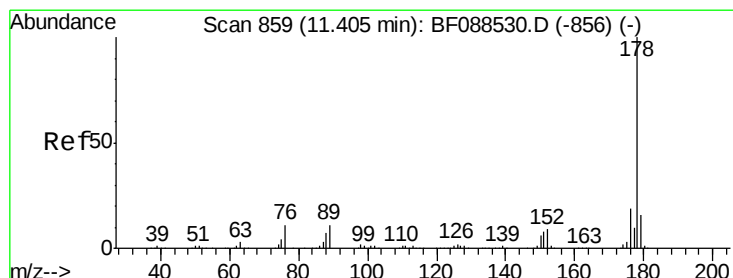
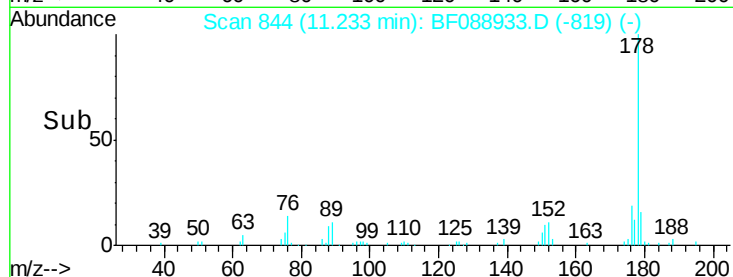
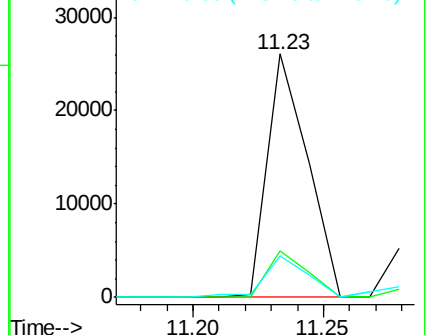
7/13/2016 9:25:40 AM



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: 2.89 ng

RT: 11.29 min Scan# 849

Delta R.T. -0.01 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

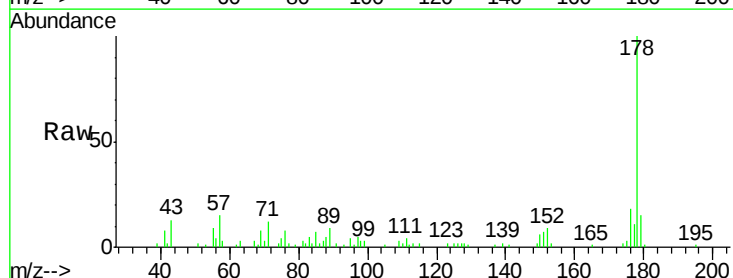
Tgt Ion:178 Resp: 24863

Ion Ratio Lower Upper

178 100

176 17.9 15.6 23.4

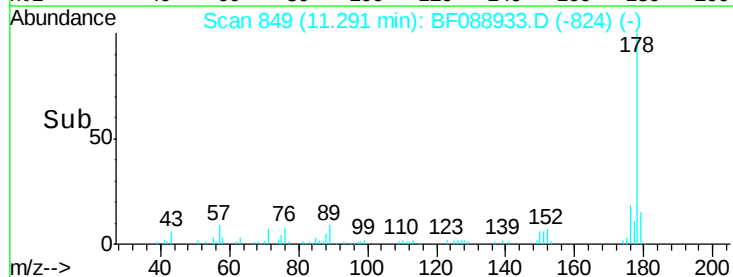
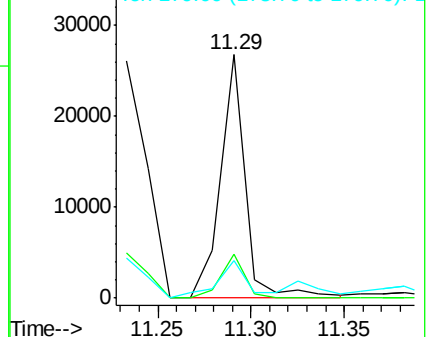
179 15.4 12.8 19.2

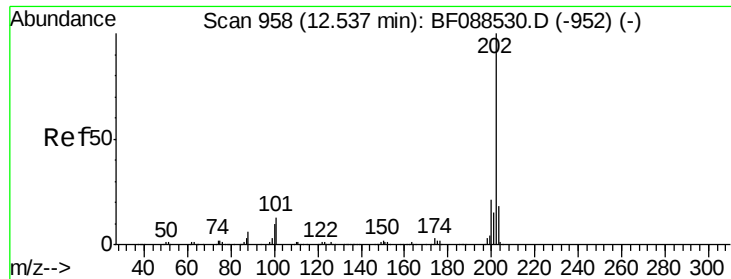


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 11.75 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.00 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Instrument :

BNA_F

ClientSampleId :

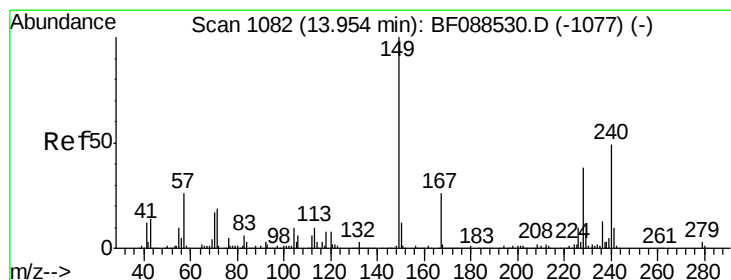
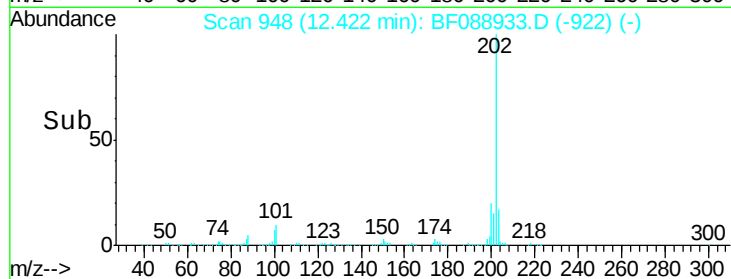
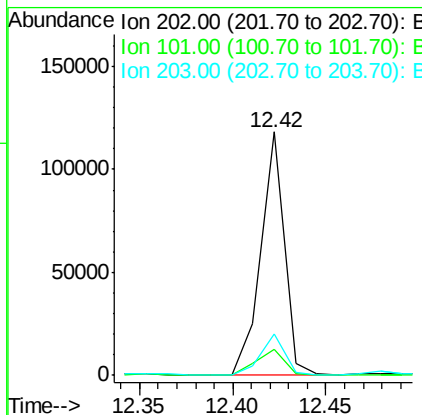
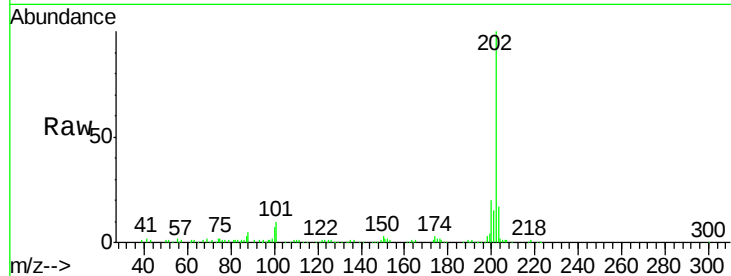
C2.3-02

Tot Ion:	202	Resp:	103232
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	33.1
203	17.2	0.0	38.1

Manual Integrations

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#75

Chrysene-d12

Concen: 20.00 ng

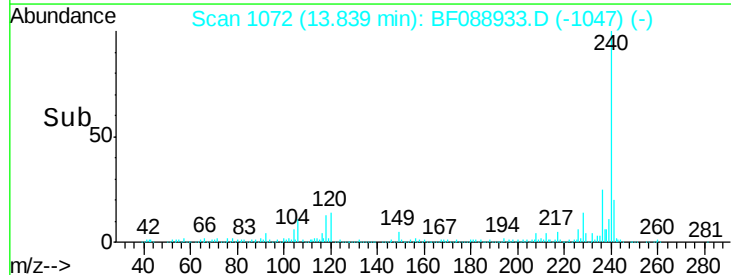
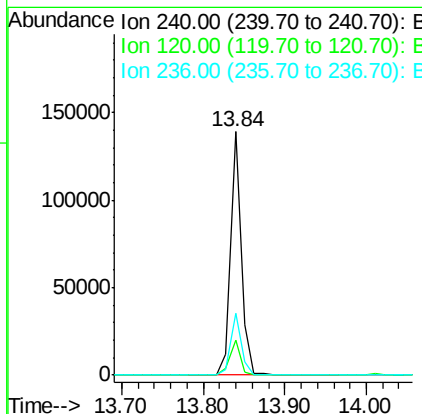
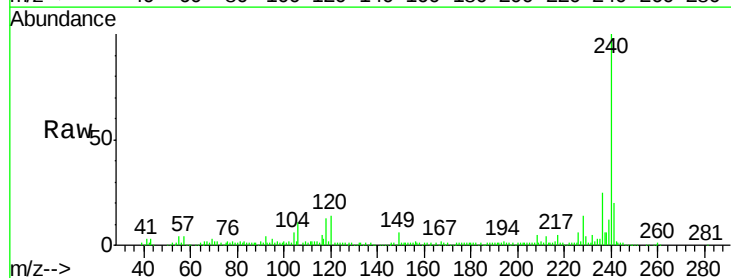
RT: 13.84 min Scan# 1072

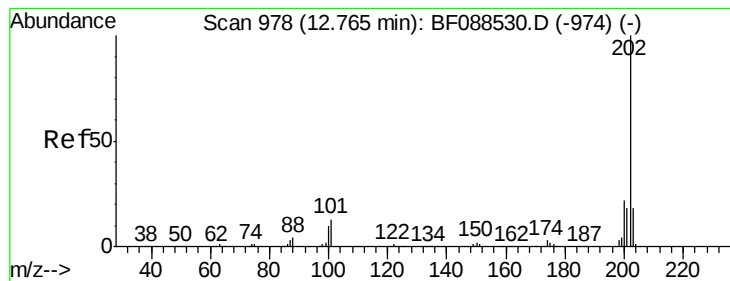
Delta R.T. -0.01 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Tgt Ion:	240	Resp:	126768
Ion Ratio	Lower	Upper	
240	100		
120	14.3	6.8	10.2#
236	25.2	20.2	30.2





#77

Pvrene

Concen: 8.34 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.00 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Instrument :

BNA_F

ClientSampled :

C2.3-02

Tot Ion:202 Resp: 89690

Ion Ratio Lower Upper

202 100

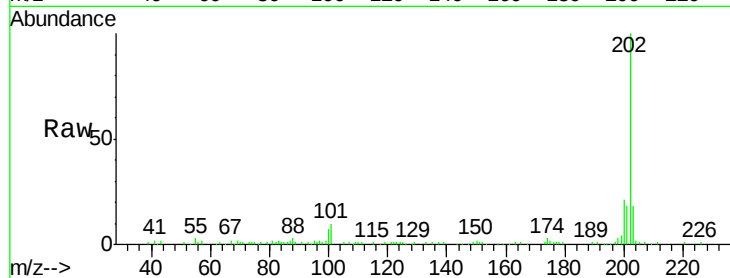
200 21.0 17.4 26.2

203 17.7 14.5 21.7

Manual Integrations

SOHIL

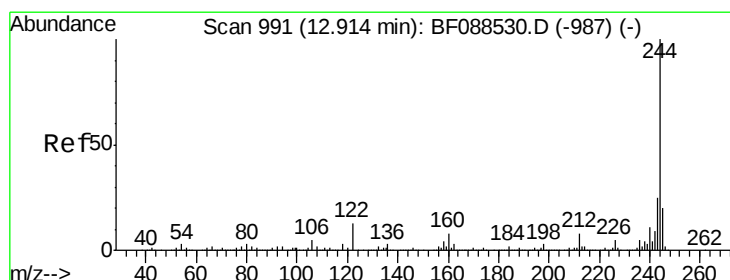
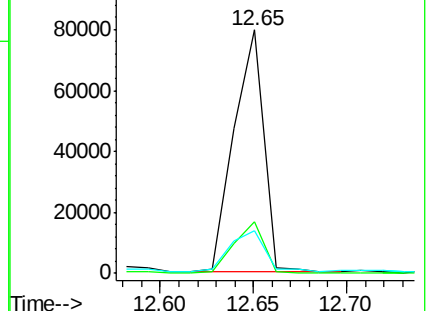
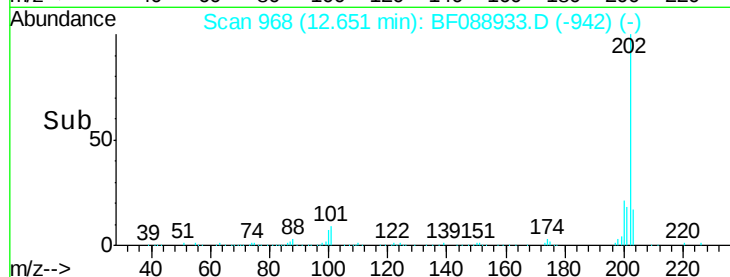
7/13/2016 9:25:40 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 56.32 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.00 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

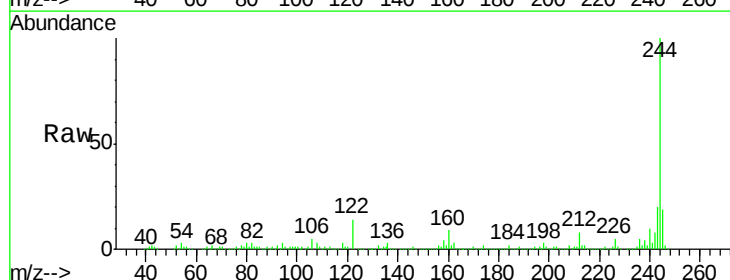
Tgt Ion:244 Resp: 320522

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

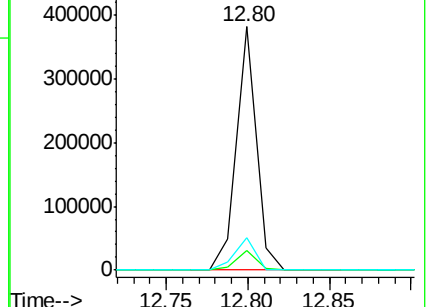
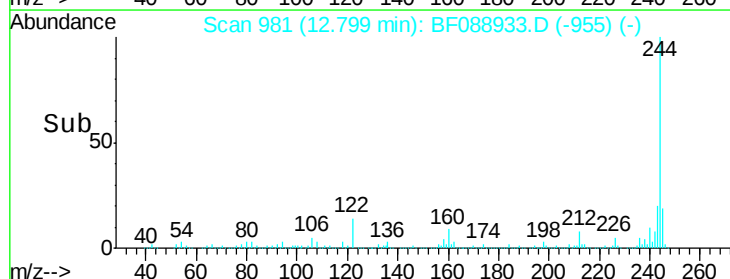
122 13.6 11.2 16.8

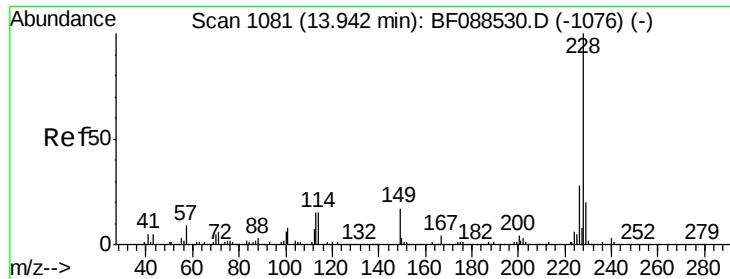


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





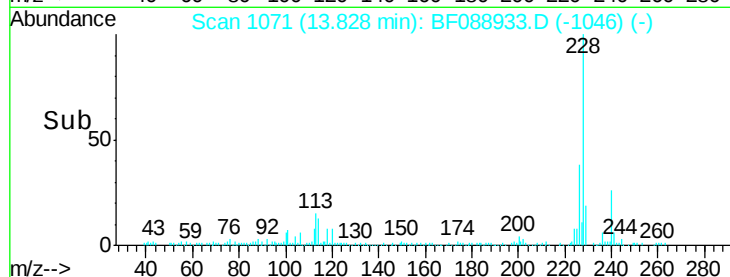
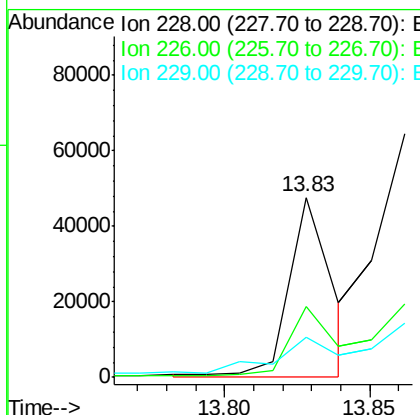
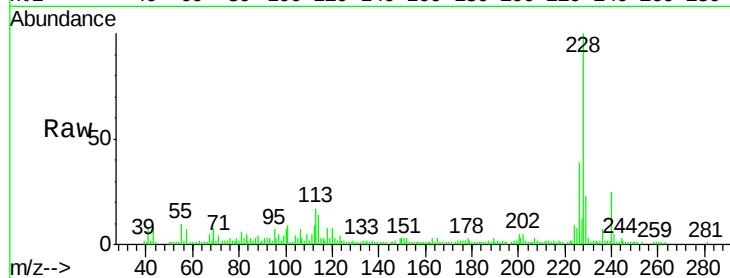
#80
Benzo(a)anthracene
Concen: 6.15 ng m
RT: 13.83 min Scan# 1071
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampleId :
C2.3-02

Tot Ion:228 Resp: 50214
Ion Ratio Lower Upper
228 100
226 39.2 22.3 33.5#
229 22.6 16.0 24.0

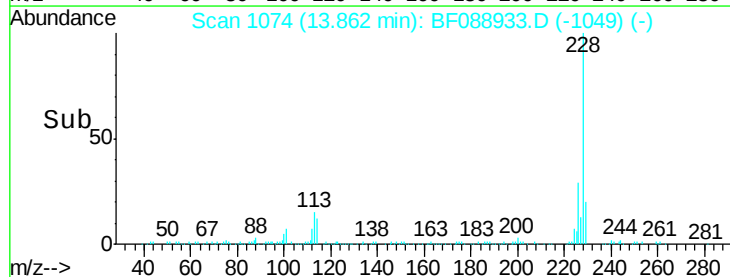
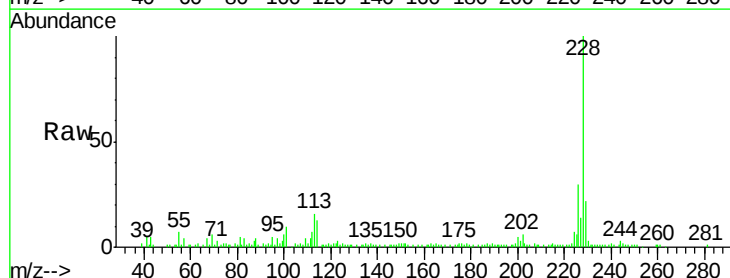
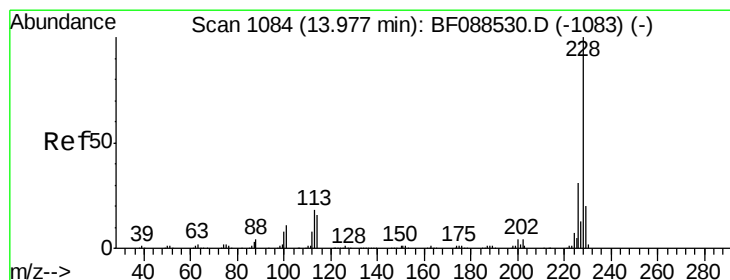
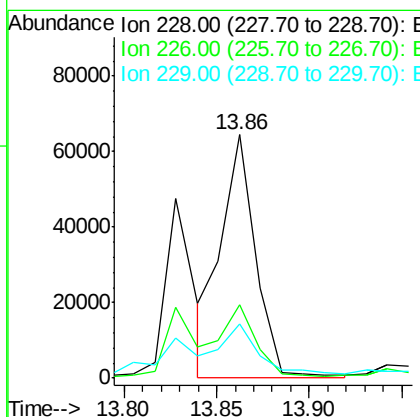
Manual Integrations

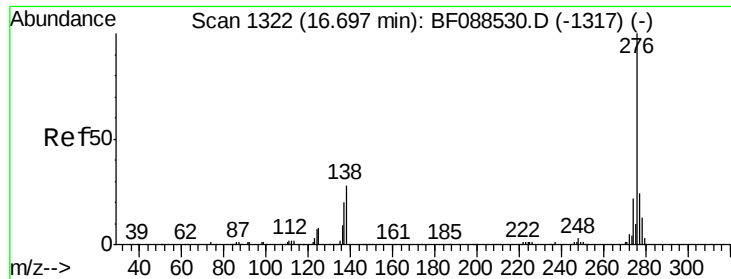
APPROVED
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#82
Chrysene
Concen: 10.47 ng m
RT: 13.86 min Scan# 1074
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Tgt Ion:228 Resp: 84539
Ion Ratio Lower Upper
228 100
226 30.3 25.4 38.2
229 22.4 16.3 24.5





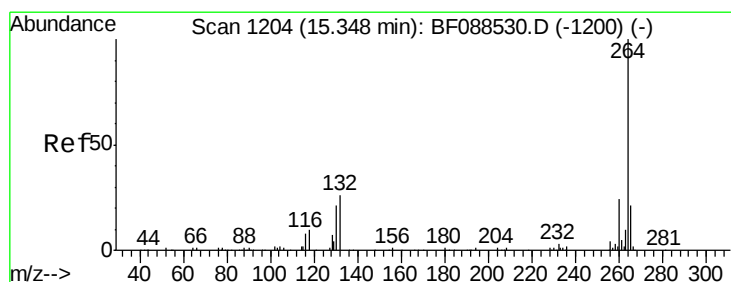
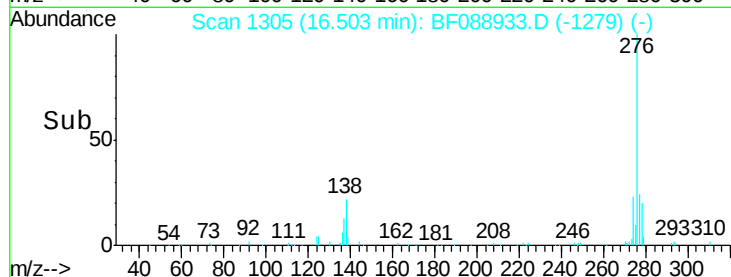
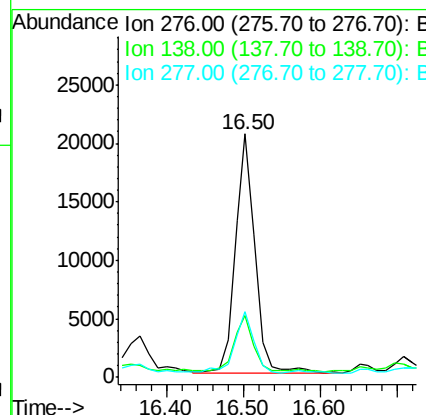
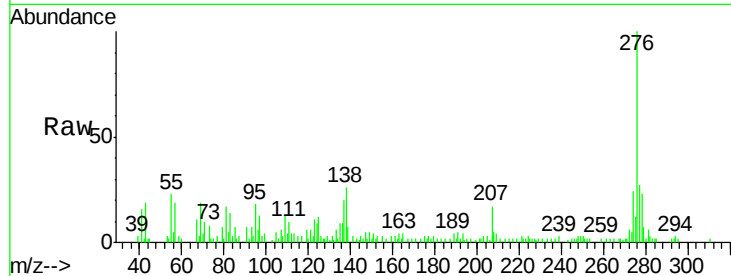
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.97 ng
 RT: 16.50 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF088933.D
 Acq: 12 Jul 2016 21:58

Instrument :
 BNA_F
 ClientSampled :
 C2.3-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.0	0.0	0.0#
277	25.7	0.0	0.0#

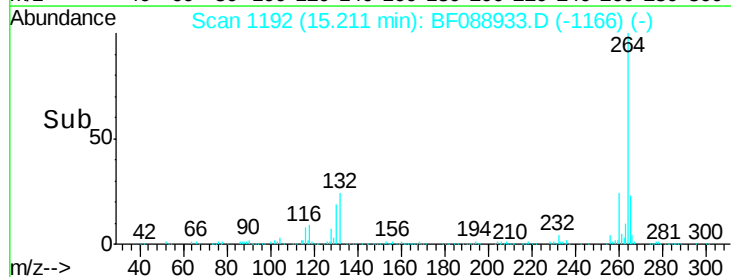
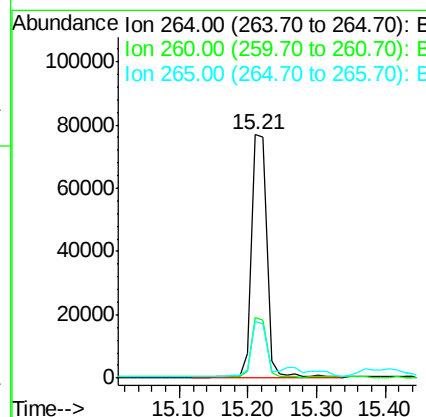
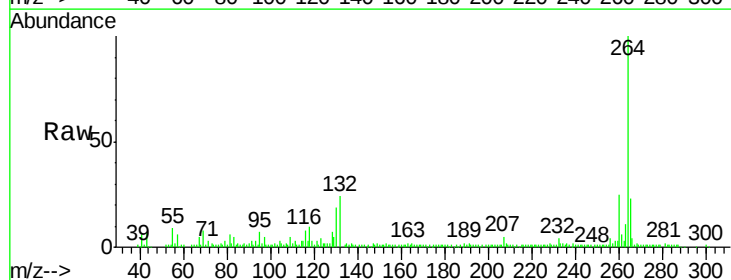
Manual Integrations

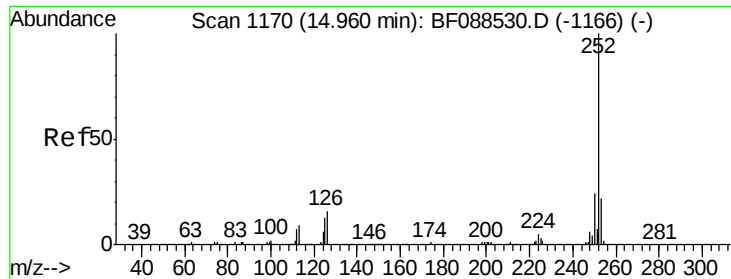
SOHIL
 7/13/2016 9:25:40 AM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.21 min Scan# 1192
 Delta R.T. -0.00 min
 Lab File: BF088933.D
 Acq: 12 Jul 2016 21:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	23.4	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 15.13 ng m

RT: 14.83 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Instrument :

BNA_F

ClientSampled :

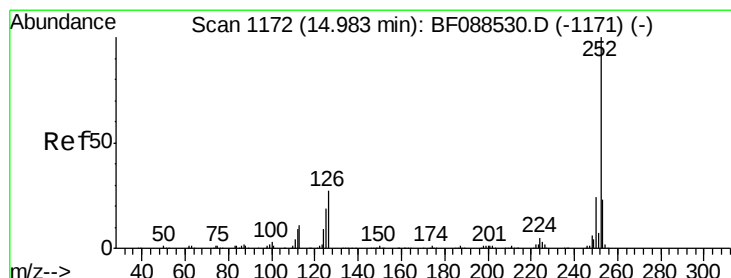
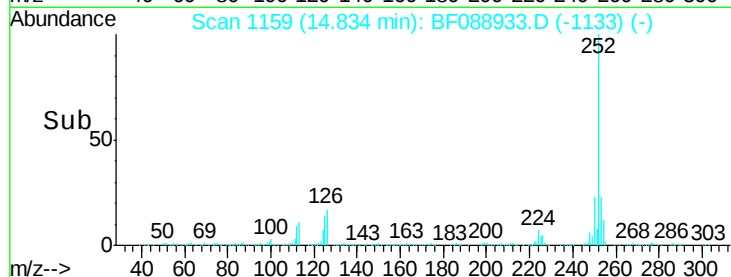
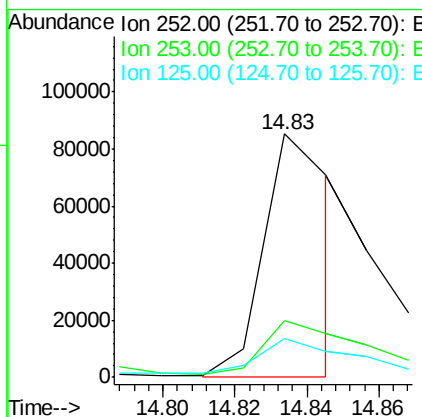
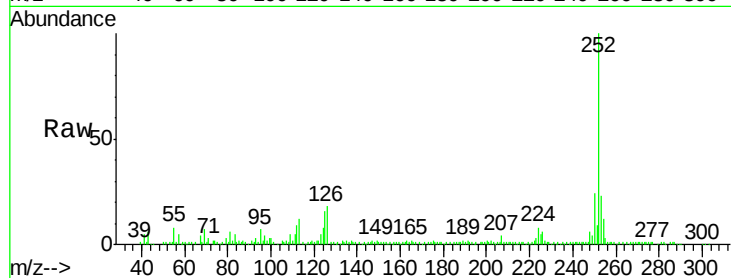
C2.3-02

Tot Ion:	252	Resp:	113971
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.4	26.2
125	15.8	7.1	10.7#

Manual Integrations

SOHIL

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#88

Benzo(k)fluoranthene

Concen: 7.44 ng m

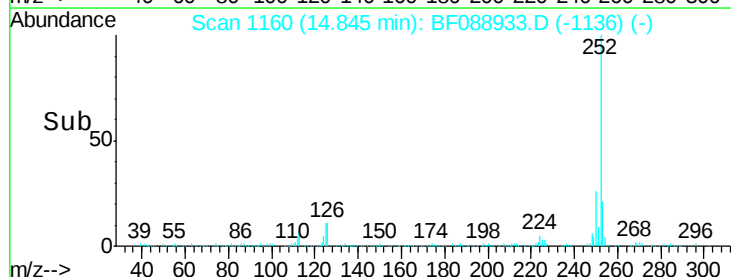
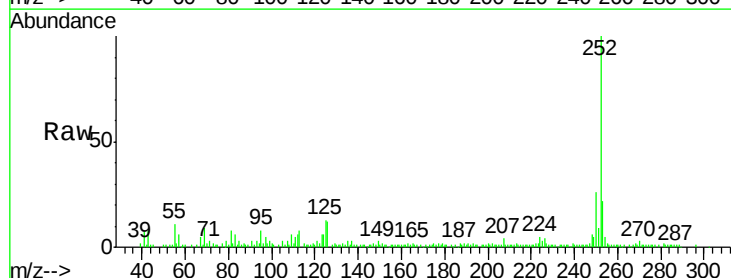
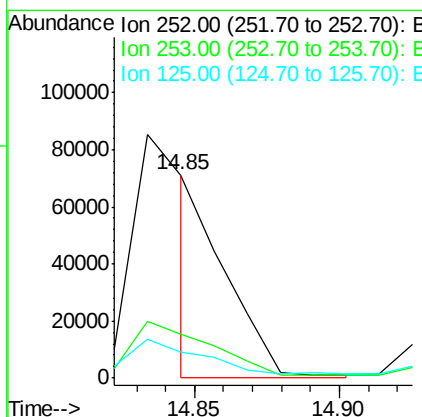
RT: 14.85 min Scan# 1160

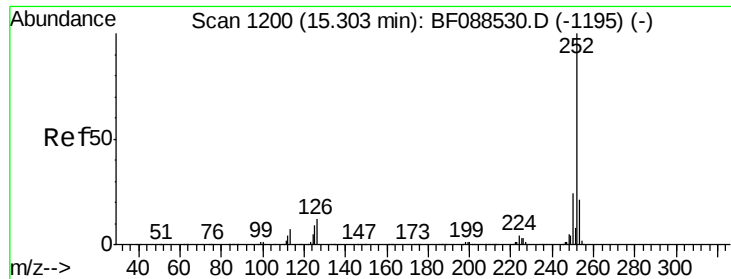
Delta R.T. -0.02 min

Lab File: BF088933.D

Acq: 12 Jul 2016 21:58

Tgt Ion:	252	Resp:	48795
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.0	27.0
125	13.1	11.2	16.8





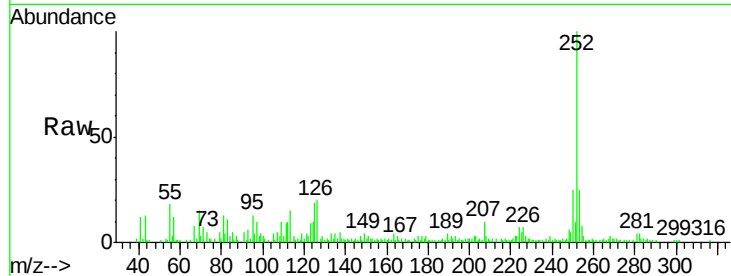
#89
Benzo(a)pyrene
Concen: 7.83 ng
RT: 15.15 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampleId :
C2.3-02

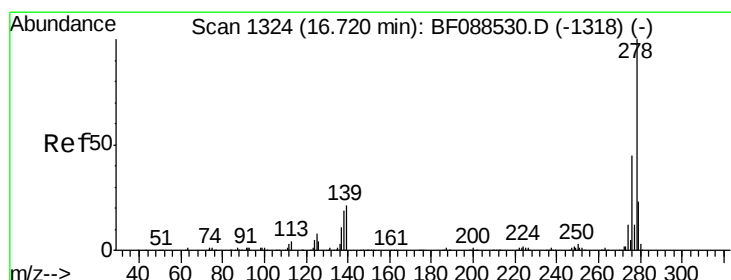
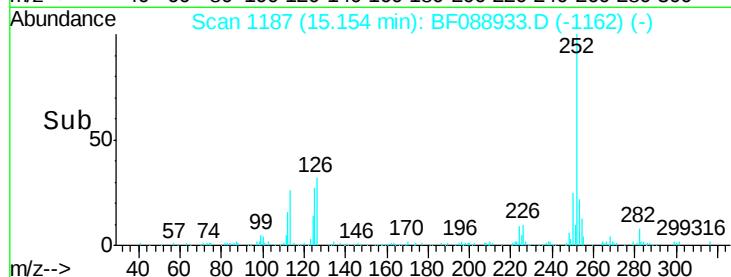
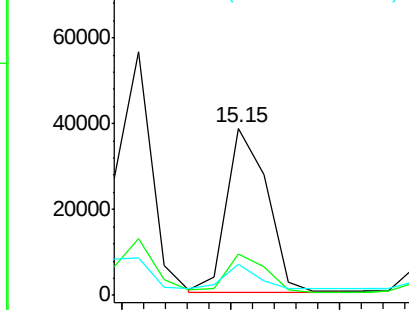
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.9	26.9
125	18.7	12.5	18.7

Manual Integrations

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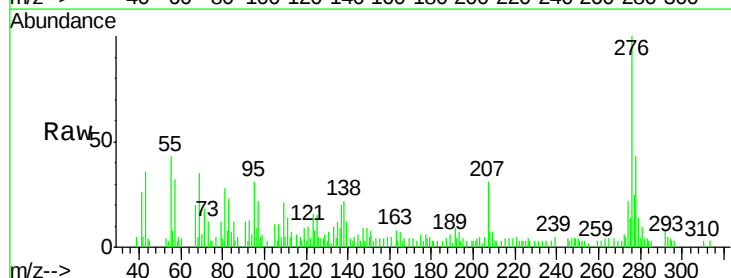


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

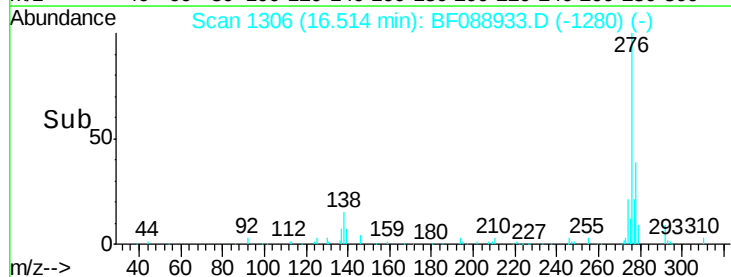
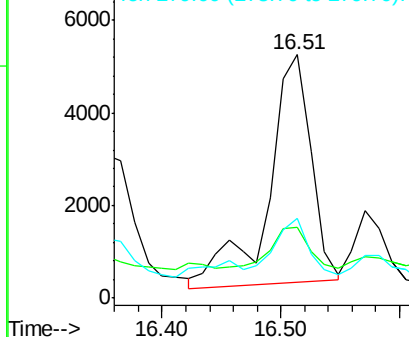


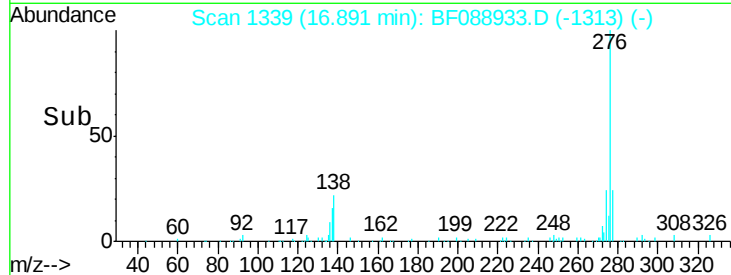
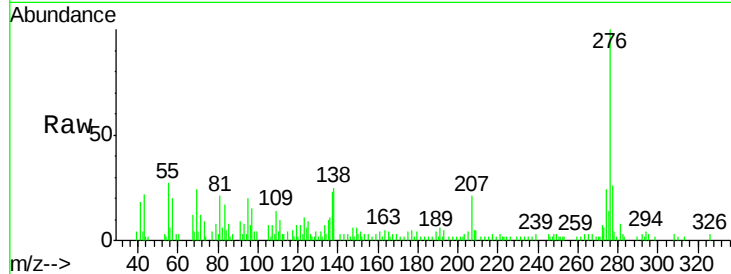
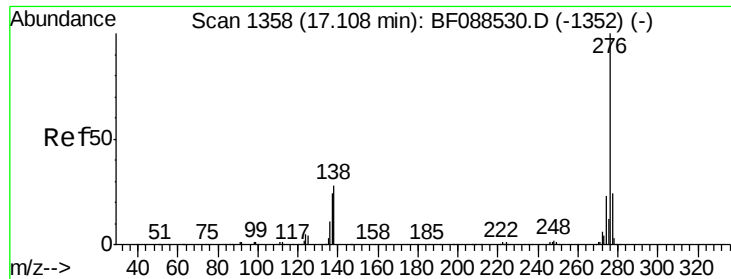
#90
Dibenzo(a,h)anthracene
Concen: 2.31 ng
RT: 16.51 min Scan# 1306
Delta R.T. -0.00 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Tgt Ion	Ratio	Lower	Upper
278	100		
139	29.0	15.7	23.5#
279	32.7	19.4	29.2#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
Benzo(a,h,i)perylene
Concen: 6.17 ng
RT: 16.89 min Scan# 1339
Delta R.T. -0.00 min
Lab File: BF088933.D
Acq: 12 Jul 2016 21:58

Instrument :
BNA_F
ClientSampleId :
C2.3-02

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.9	28.3
138	25.1	21.4	32.2

Manual Integrations

APPROVED
SOHIL
7/13/2016 9:25:40 AM

