

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101405.D
 Acq On : 14 Dec 2017 20:43
 Operator : SJ/JU
 Sample : I6839-01 100X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-01

Manual Integrations
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Sohil
 12/15/2017 6:44:20 PM

Quant Time: Dec 15 00:56:12 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	183038	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	699562	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	329531	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	611223	20.00	ng	0.00
75) Chrysene-d12	13.99	240	383395	20.00	ng	-0.01
86) Perylene-d12	15.46	264	336726	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	675	0.05	ng	0.06
7) Phenol-d6	6.46	99	1919	0.13	ng	0.00
23) Nitrobenzene-d5	7.40	82	875	0.07	ng	0.01
41) 2,4,6-Tribromophenol	10.66	330	384	0.12	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	2045	0.10	ng	0.00
78) Terphenyl-d14	12.92	244	3401	0.21	ng	-0.01
Target Compounds						
10) Phenol	6.47	94	156387	8.972	ng	96
17) 2-Methylphenol	7.08	107	28404	2.389	ng	96
20) 3+4-Methylphenols	7.23	107	93601	7.429	ng	90
31) Naphthalene	8.13	128	4567149	129.680	ng	98
37) 2-Methylnaphthalene	8.81	142	725132	31.602	ng	99
45) 1,1'-Biphenyl	9.27	154	230165	7.876	ng	97
48) Acenaphthylene	9.72	152	644026	18.235	ng	100
51) Acenaphthene	9.89	154	110194	5.193	ng	96
54) Dibenzofuran	10.06	168	775355	28.752	ng	97
57) Fluorene	10.40	166	789071	34.590	ng	99
70) Phenanthrene	11.38	178	2321019	68.283	ng	99
71) Anthracene	11.42	178	882698	25.423	ng	100
72) Carbazole	11.58	167	444797	13.683	ng	99
74) Fluoranthene	12.57	202	1780163	49.895	ng	98
77) Pyrene	12.80	202	1415617	49.198	ng	99
80) Benzo(a)anthracene	13.99	228	608550	24.038	ng	95
82) Chrysene	14.02	228	527481	22.067	ng	98
87) Benzo(b)fluoranthene	15.04	252	453729m	22.107	ng	
88) Benzo(k)fluoranthene	15.06	252	183276m	9.184	ng	
89) Benzo(a)pyrene	15.40	252	376310	19.889	ng	98
91) Benzo(g,h,i)perylene	17.39	276	183682	11.419	ng	94

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

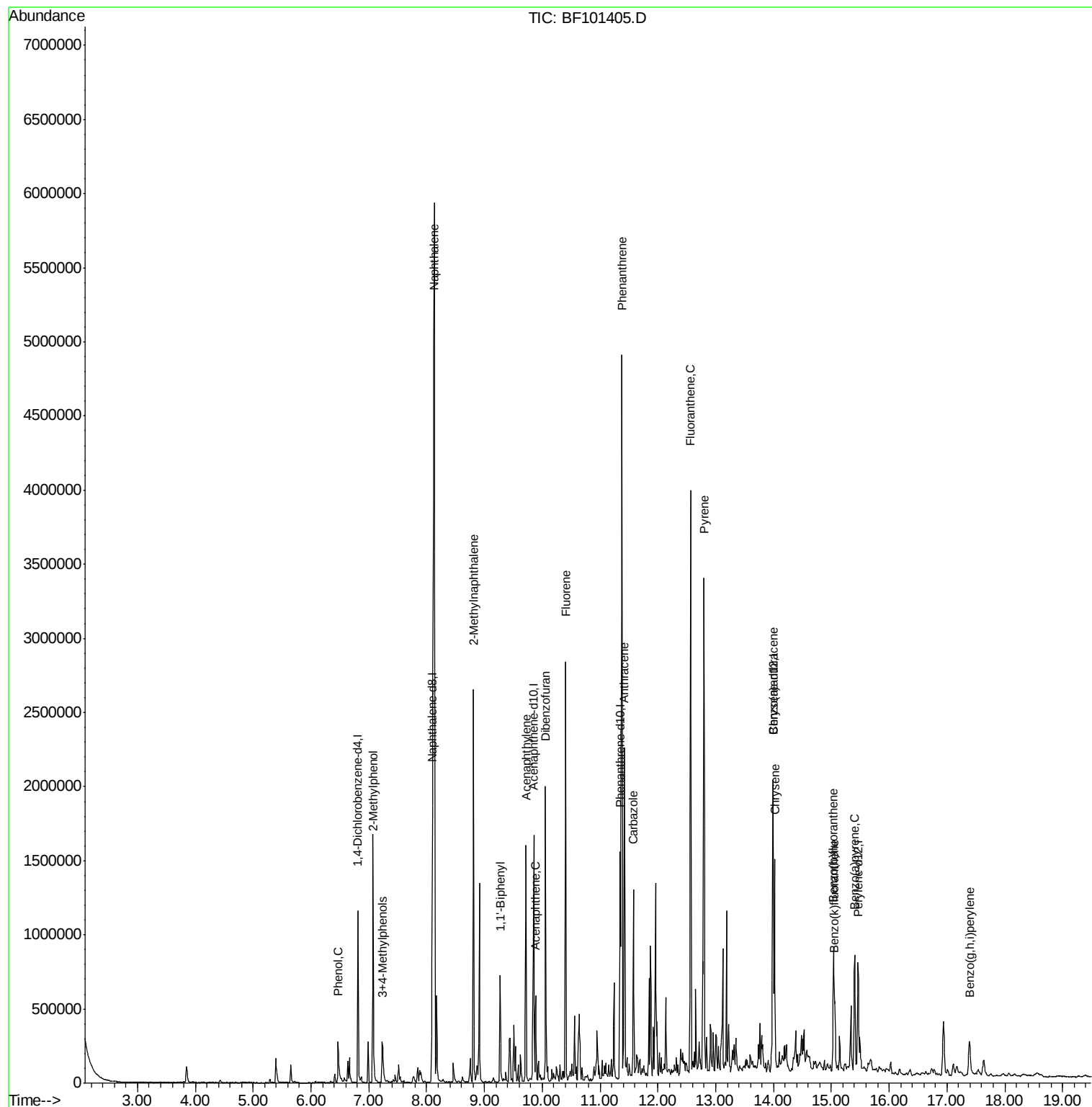
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101405.D
Acq On : 14 Dec 2017 20:43
Operator : SJ/JU
Sample : I6839-01 100X
Misc :
ALS Vial : 10 Sample Multiplier: 1

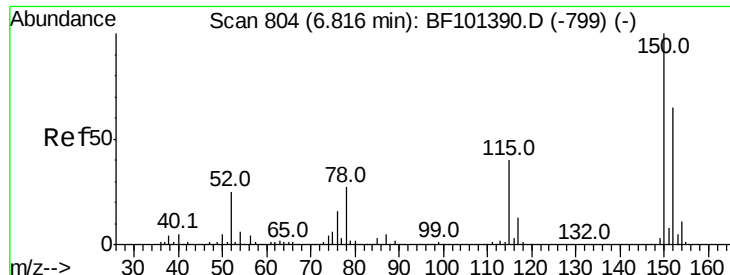
Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

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Quant Time: Dec 15 00:56:12 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 14 15:42:32 2017
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#1

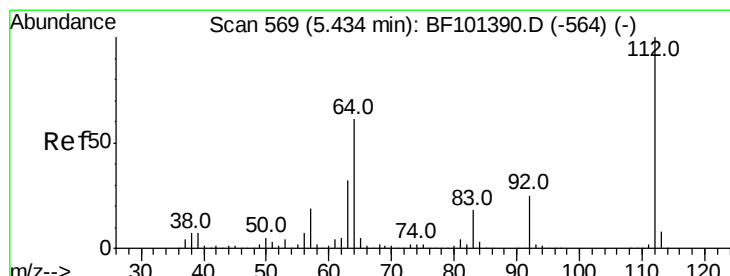
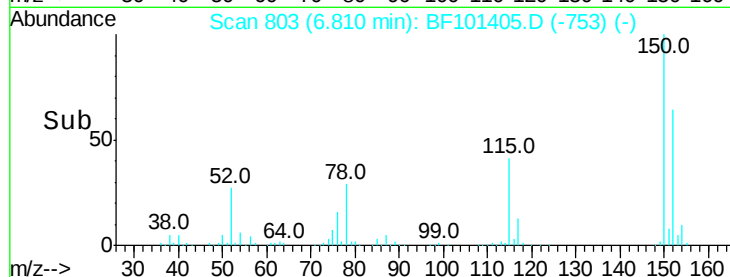
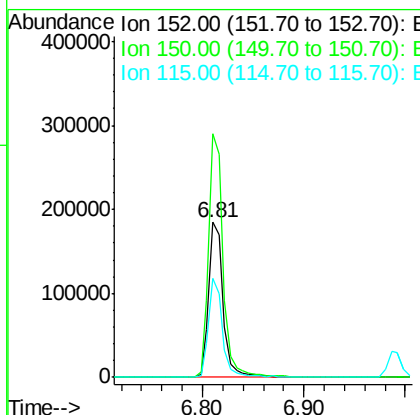
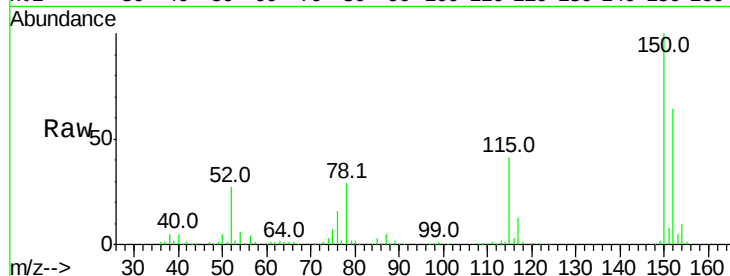
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.6	186.8
115	64.1	50.1	75.1

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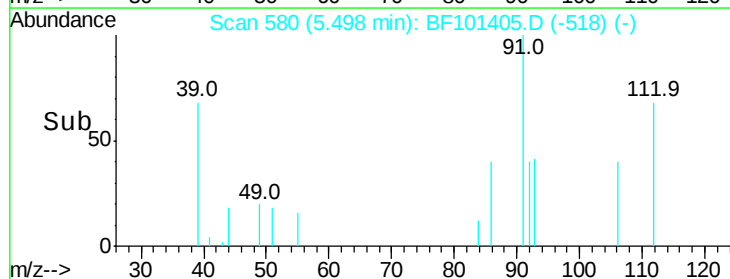
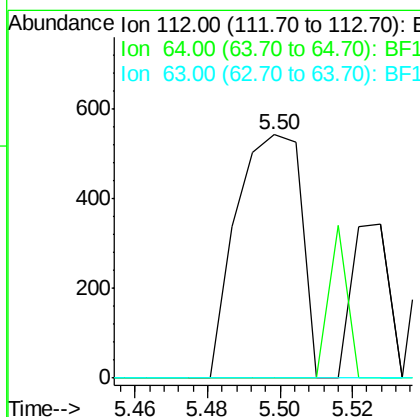
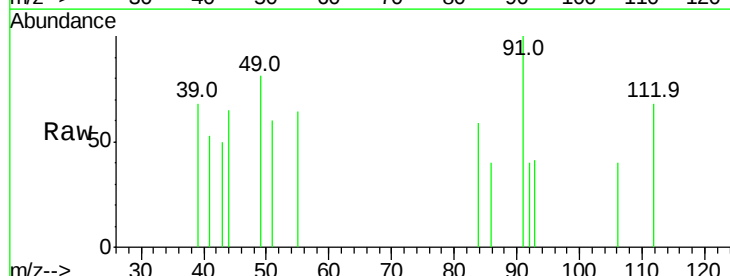
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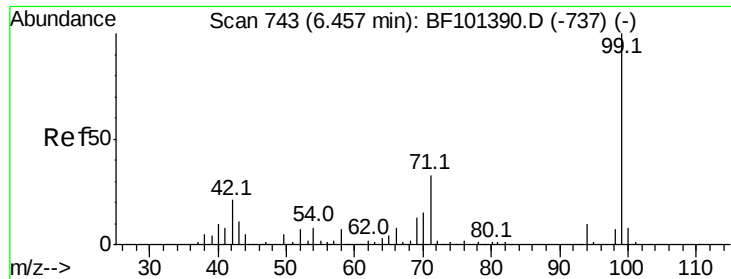


#5

2-Fluorophenol
Concen: 0.055 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.06 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	47.9	71.9#
63	0.0	23.7	35.5#





#7

Phenol-d6

Concen: 0.125 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.00 min

Lab File: BF101405.D

Acq: 14 Dec 2017 20:43

Instrument :

BNA_F

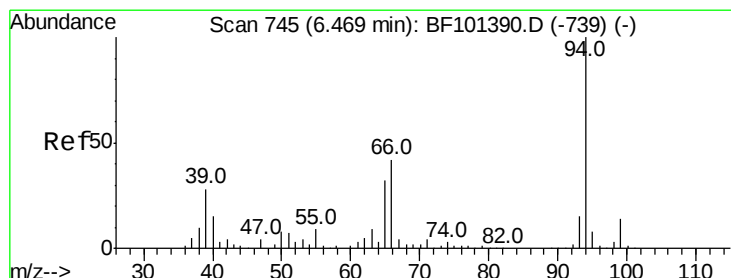
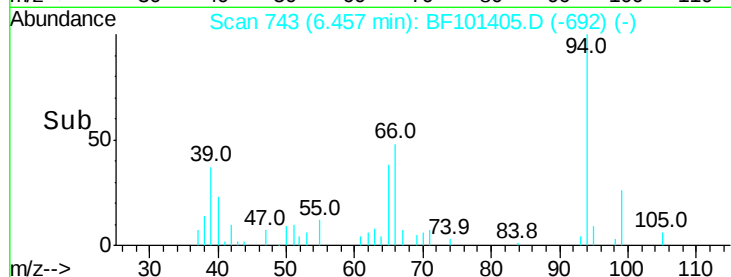
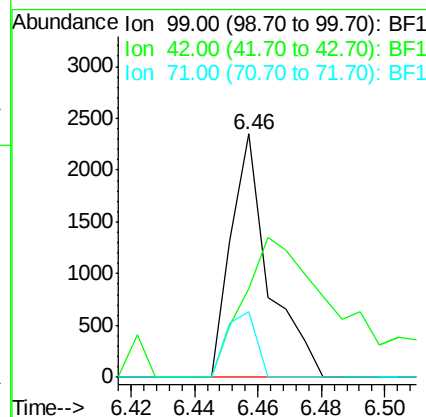
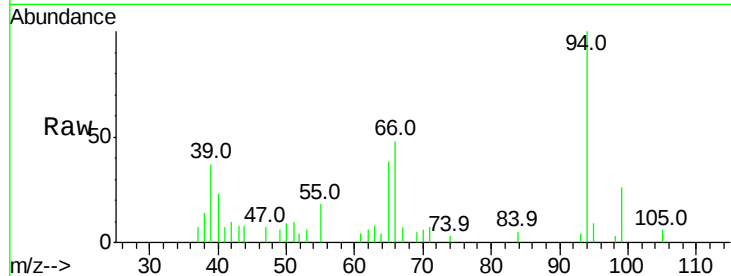
ClientSampleId :

WC-41446854-01

Tot Ion:	99	Resp:	1919
Ion Ratio	Lower	Upper	
99	100		
42	36.5	14.5	21.7#
71	27.1	25.4	38.0

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#10

Phenol

Concen: 8.972 ng

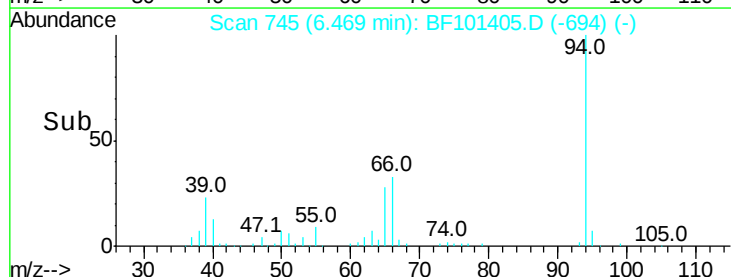
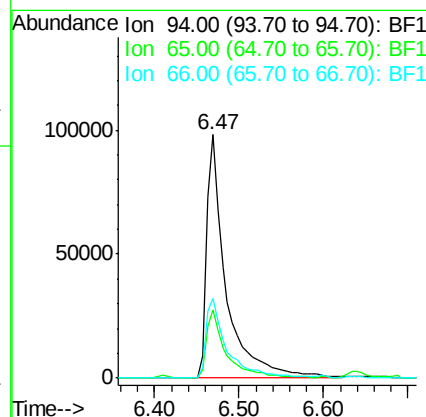
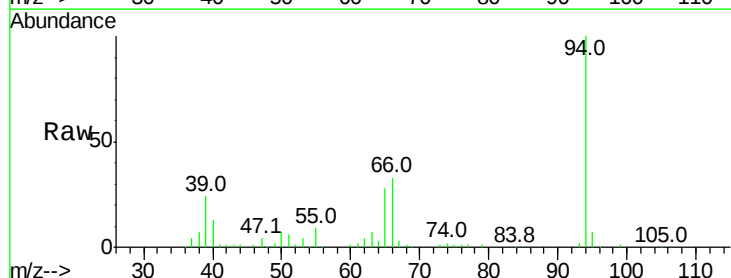
RT: 6.47 min Scan# 745

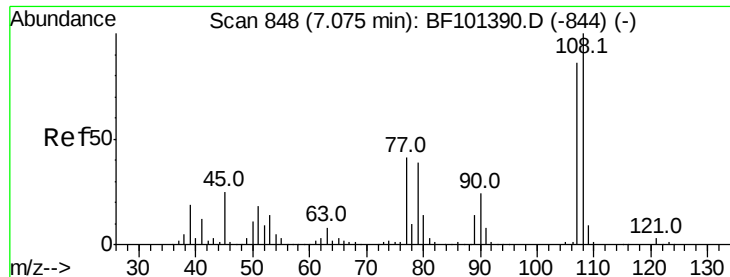
Delta R.T. -0.00 min

Lab File: BF101405.D

Acq: 14 Dec 2017 20:43

Tgt Ion:	94	Resp:	156387
Ion Ratio	Lower	Upper	
94	100		
65	28.2	7.9	47.9
66	32.7	16.2	56.2





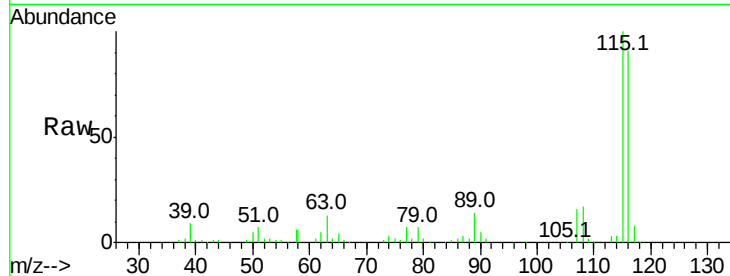
#17
2-Methylphenol
Concen: 2.389 ng
RT: 7.08 min Scan# 849
Delta R.T. 0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

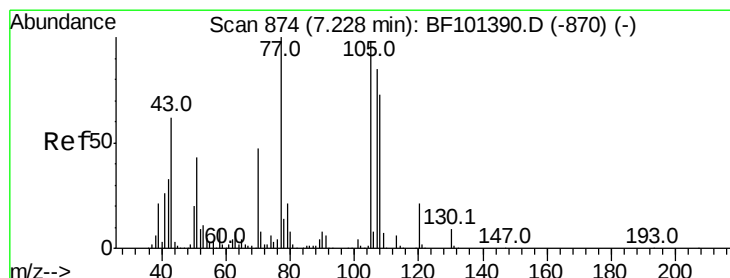
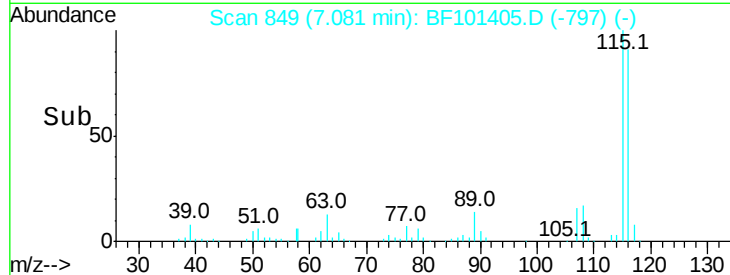
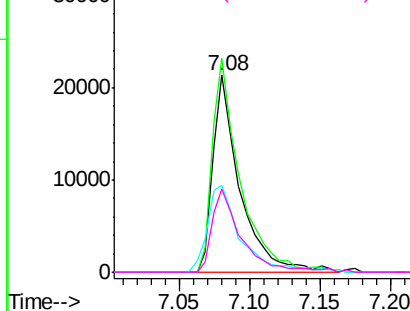
Tot Ion:	107	Resp:	28404
Ion	Ratio	Lower	Upper
107	100		
108	108.4	91.7	137.5
77	44.4	33.8	50.8
79	42.5	33.8	50.8

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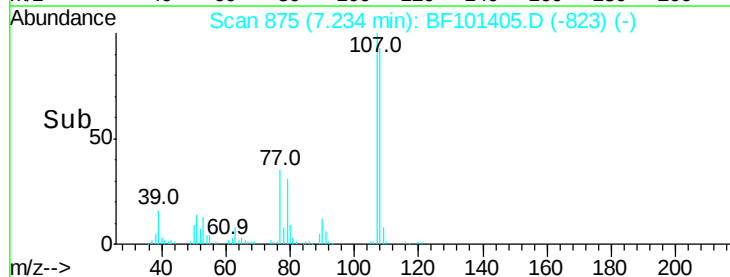
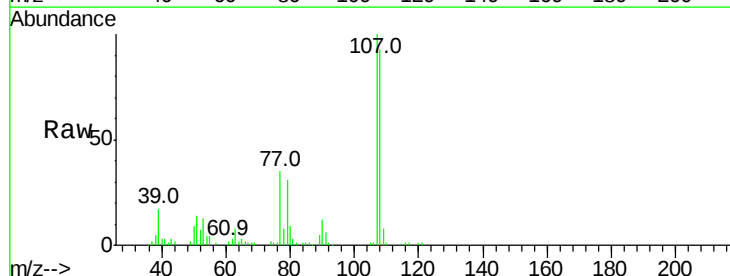
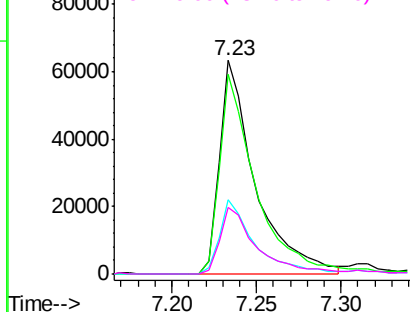
Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

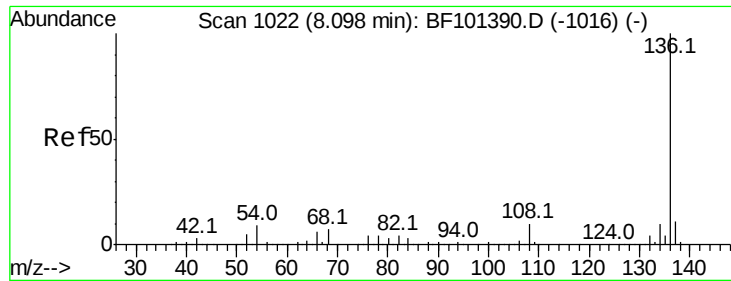


#20
3+4-Methylphenols
Concen: 7.429 ng
RT: 7.23 min Scan# 875
Delta R.T. 0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion:	107	Resp:	93601
Ion	Ratio	Lower	Upper
107	100		
108	93.2	68.2	108.2
77	34.6	26.7	66.7
79	31.0	6.3	46.3

Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1





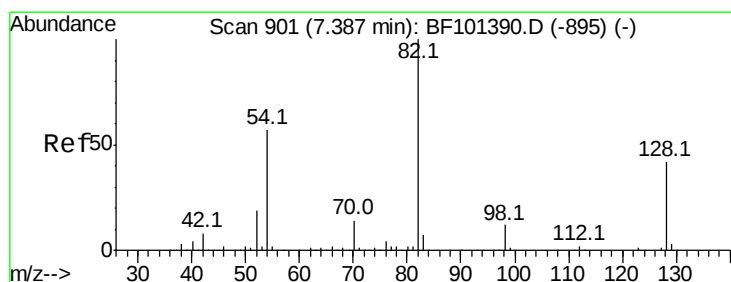
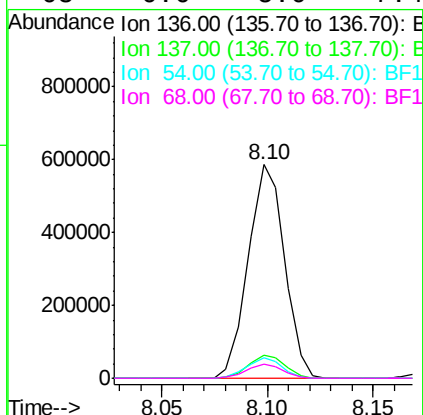
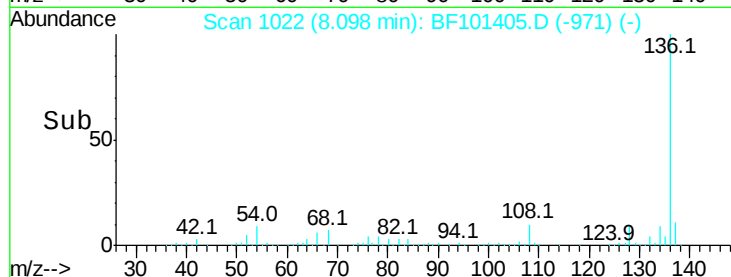
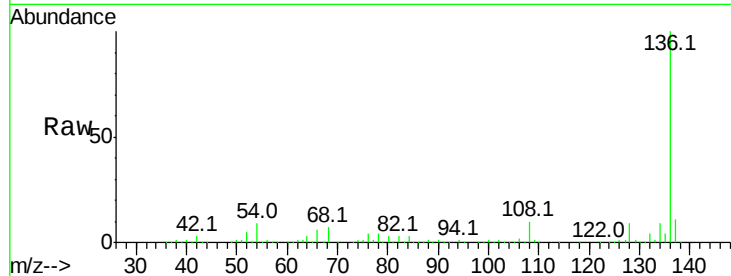
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Resp	Lower	Upper
136	100	699562		
137	11.0		8.9	13.3
54	9.5		6.6	9.8
68	6.6		5.0	7.4

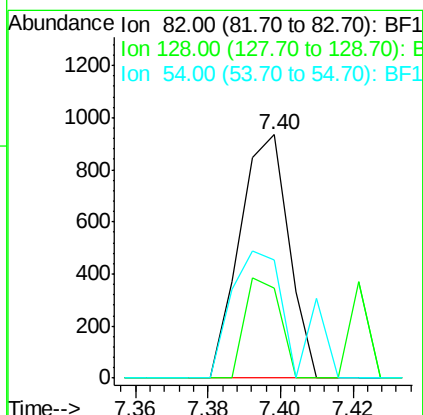
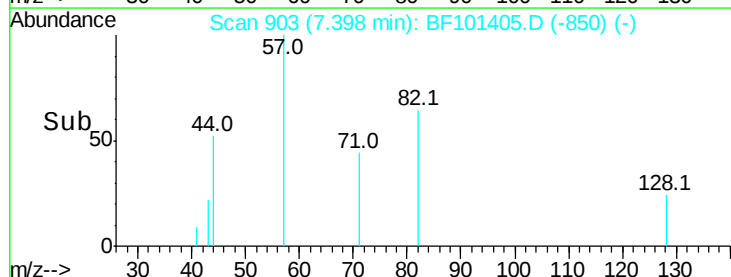
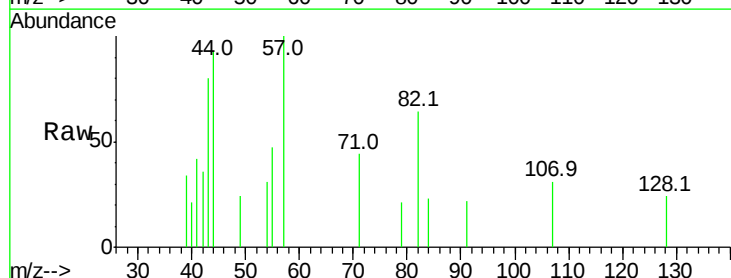
Manual Integrations
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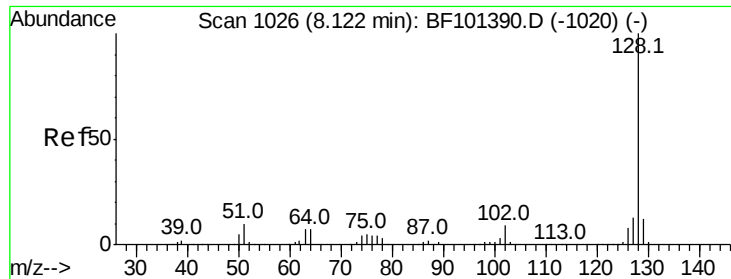
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#23
Nitrobenzene-d5
Concen: 0.070 ng
RT: 7.40 min Scan# 903
Delta R.T. 0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	875		
128	36.9		36.1	54.1
54	48.6		41.4	62.2





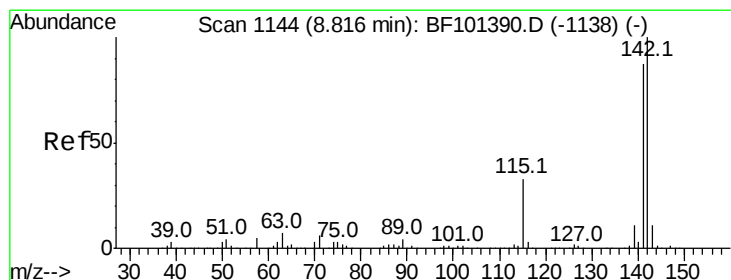
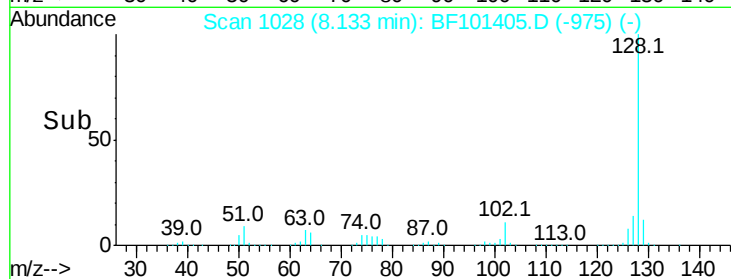
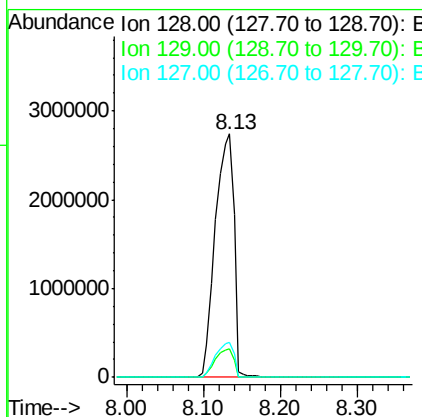
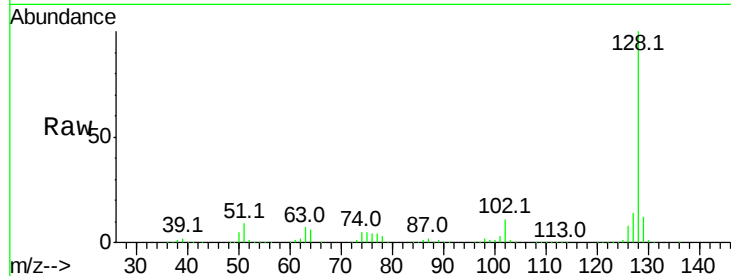
#31
Naphthalene
Concen: 129.680 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion:128 Resp: 4567149
Ion Ratio Lower Upper
128 100
129 11.9 8.8 13.2
127 14.4 10.9 16.3

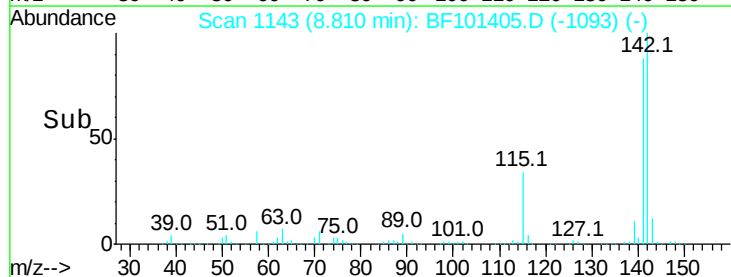
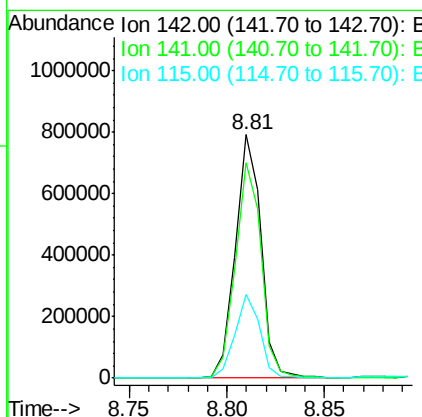
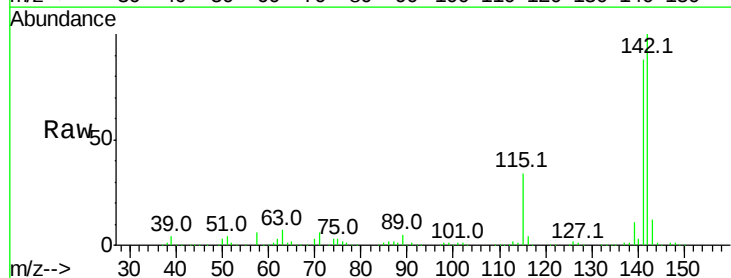
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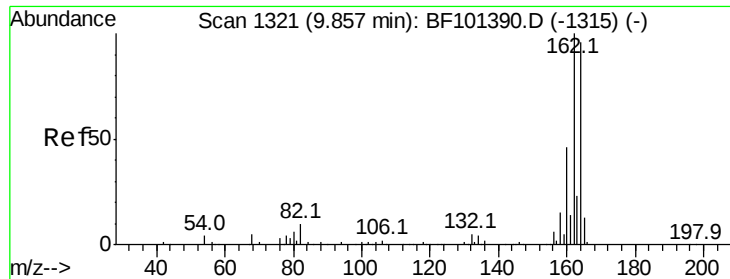
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#37
2-Methylnaphthalene
Concen: 31.602 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion:142 Resp: 725132
Ion Ratio Lower Upper
142 100
141 88.3 70.8 106.2
115 34.2 26.1 39.1





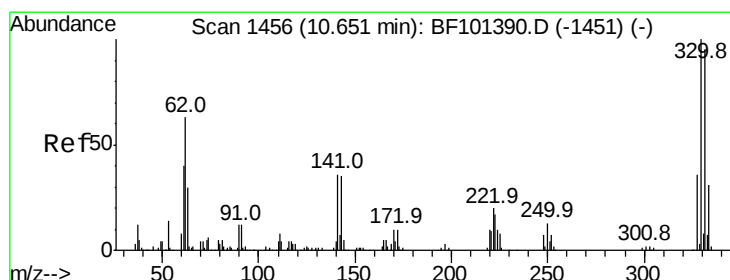
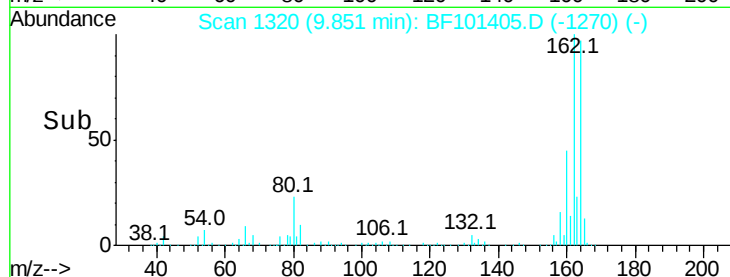
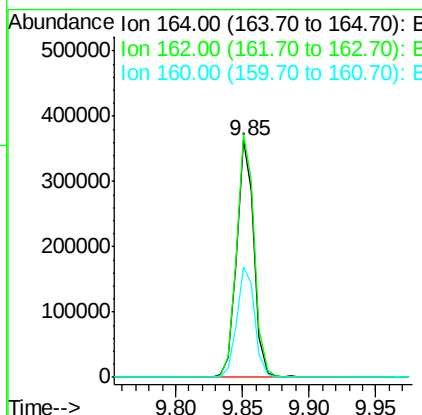
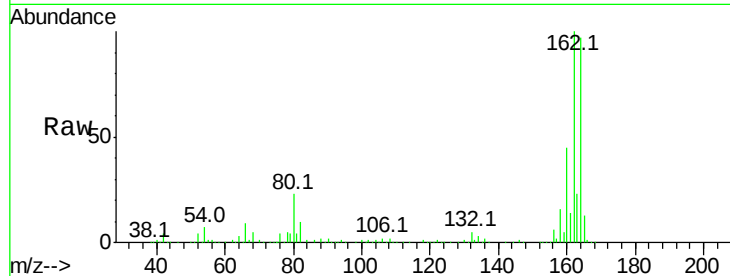
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.9	86.1	129.1	
160	46.6	38.3	57.5	

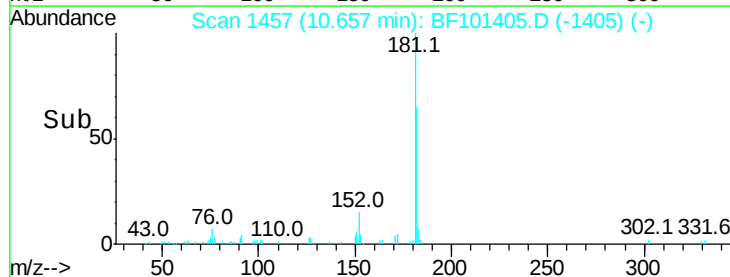
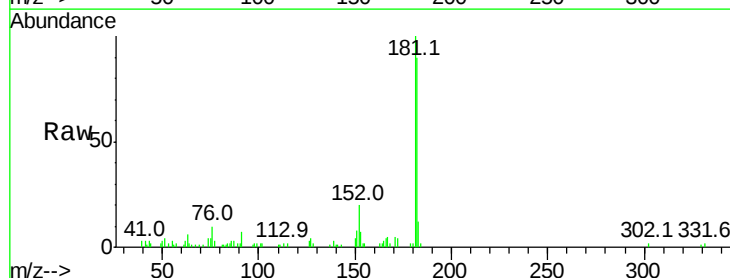
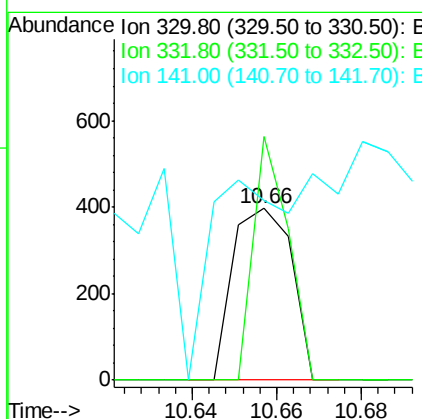
Manual Integrations
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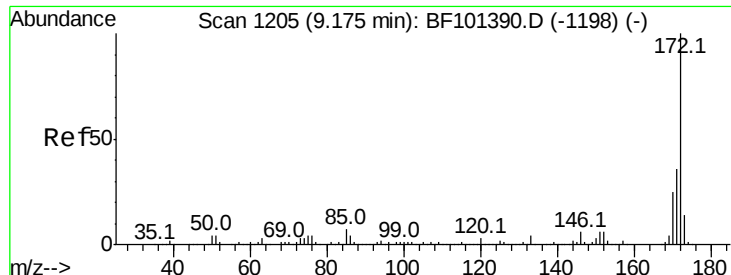
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#41
2,4,6-Tribromophenol
Concen: 0.121 ng
RT: 10.66 min Scan# 1457
Delta R.T. 0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	83.9	77.0	115.6	
141	153.9	29.9	44.9#	





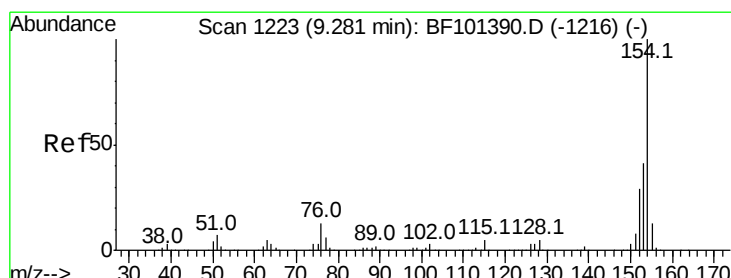
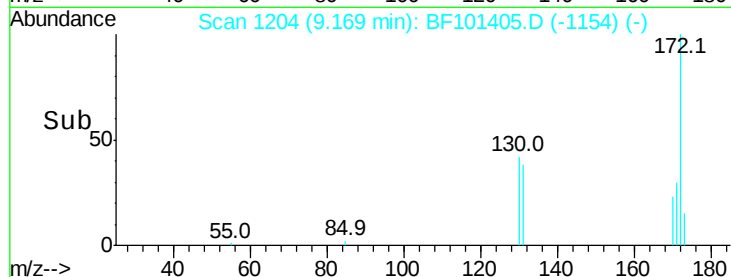
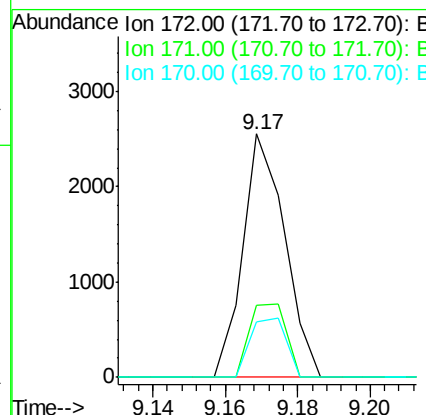
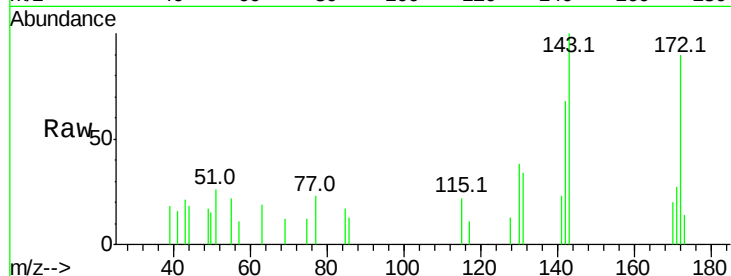
#44
2-Fluorobiphenyl
Concen: 0.096 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Lower	Upper
172	100		
171	29.7	29.7	44.5
170	22.8	19.6	29.4

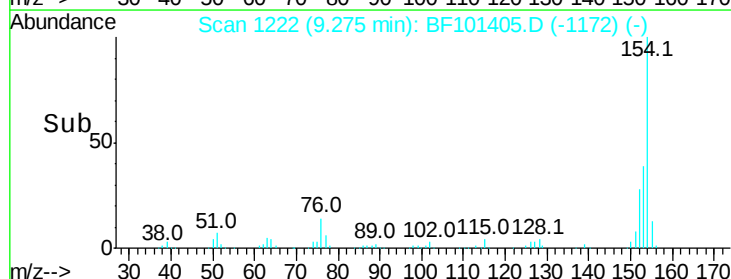
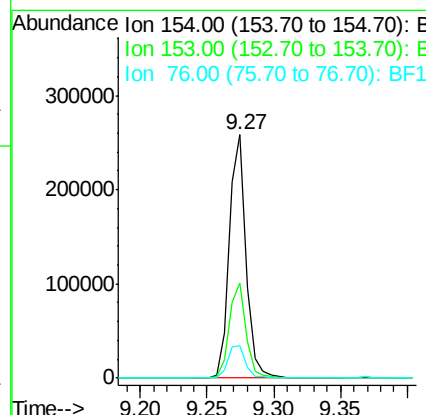
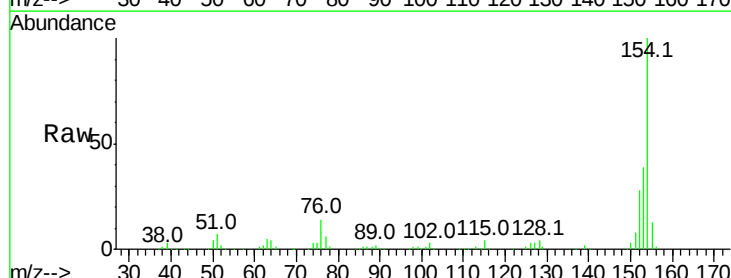
Manual Integrations
APPROVED

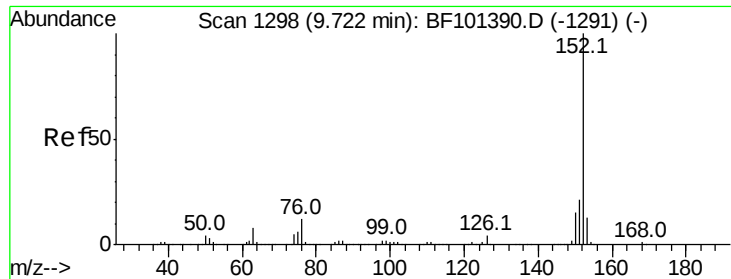
Sohil
12/15/2017 6:44:20 PM



#45
1,1'-Biphenyl
Concen: 7.876 ng
RT: 9.27 min Scan# 1222
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.2	21.3	61.3
76	13.5	0.0	34.0





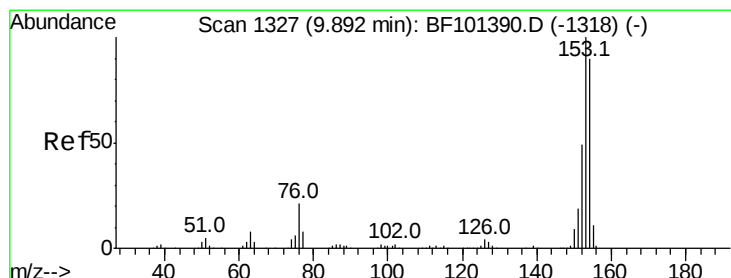
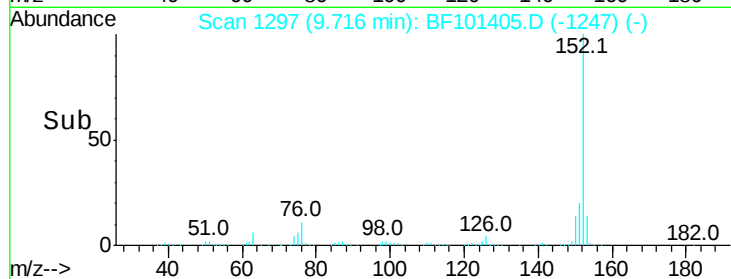
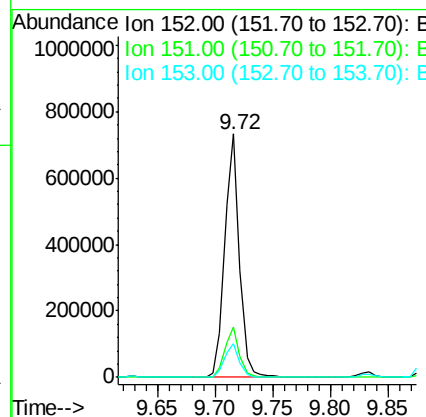
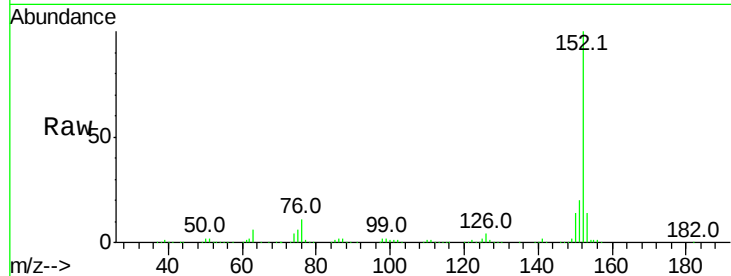
#48
Acenaphthylene
Concen: 18.235 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Resp	Lower	Upper
152	100	644026		
151	20.4		16.3	24.5
153	13.7		10.7	16.1

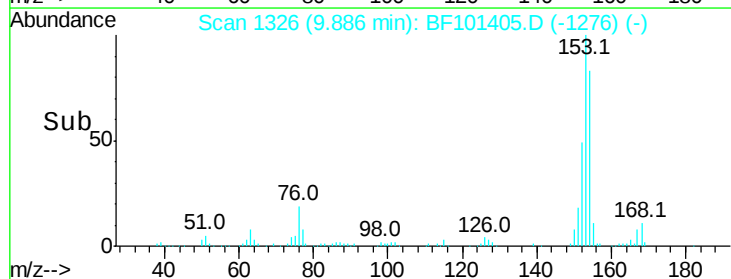
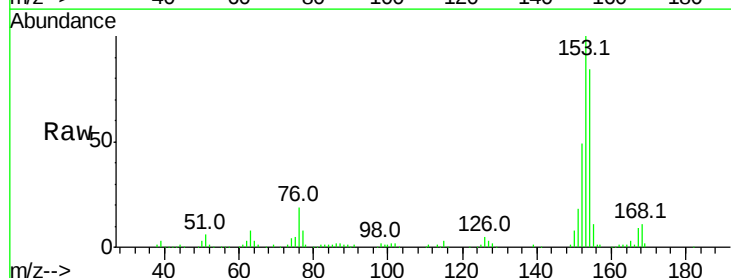
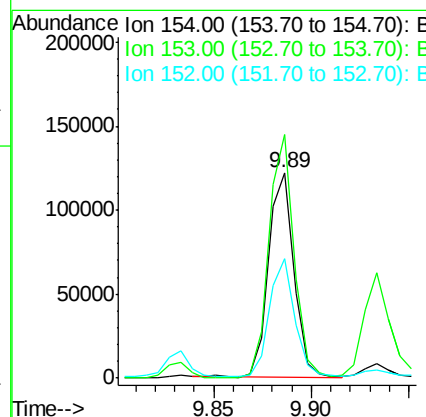
Manual Integrations
APPROVED

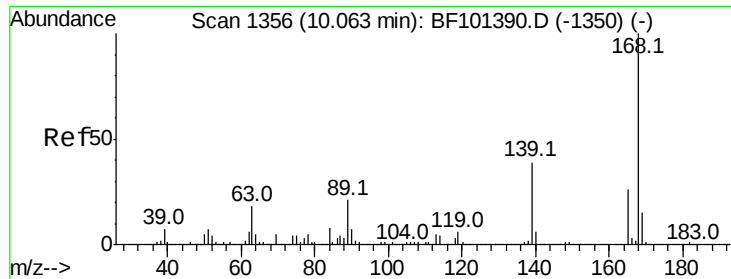
Sohil
12/15/2017 6:44:20 PM



#51
Acenaphthene
Concen: 5.193 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	110194		
153	118.4		91.2	136.8
152	58.3		43.8	65.8





#54

Dibenzenofuran

Concen: 28.752 ng

RT: 10.06 min Scan# 1355

Delta R.T. -0.01 min

Lab File: BF101405.D

Acq: 14 Dec 2017 20:43

Instrument :

BNA_F

ClientSampleId :

WC-41446854-01

Tot Ion:168 Resp: 775355

Ion Ratio Lower Upper

168 100

139 39.2 30.1 45.1

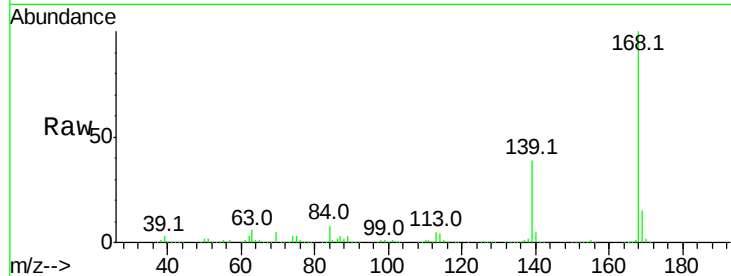
169 15.0 10.9 16.3

Manual Integrations

APPROVED

Sohil

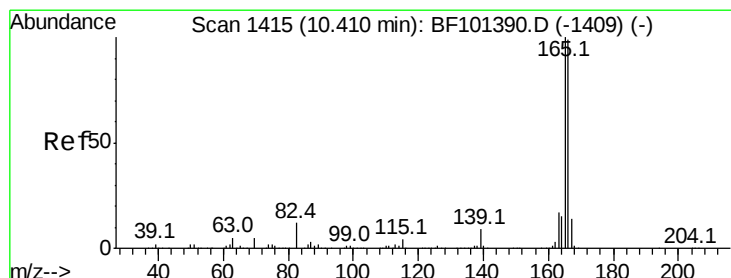
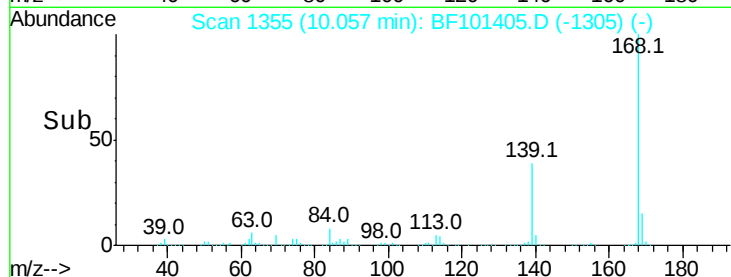
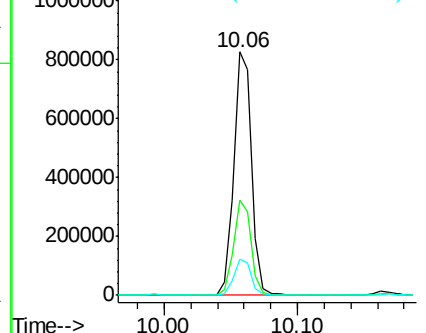
12/15/2017 6:44:20 PM



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 34.590 ng

RT: 10.40 min Scan# 1414

Delta R.T. -0.01 min

Lab File: BF101405.D

Acq: 14 Dec 2017 20:43

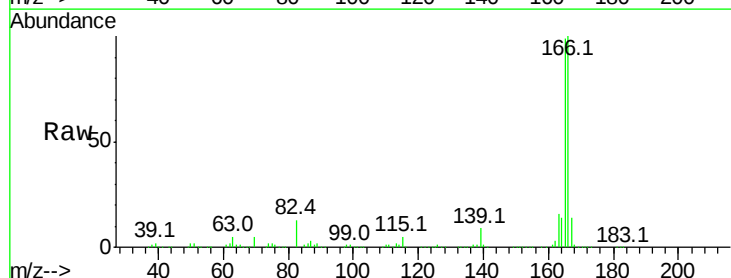
Tgt Ion:166 Resp: 789071

Ion Ratio Lower Upper

166 100

165 99.5 79.8 119.8

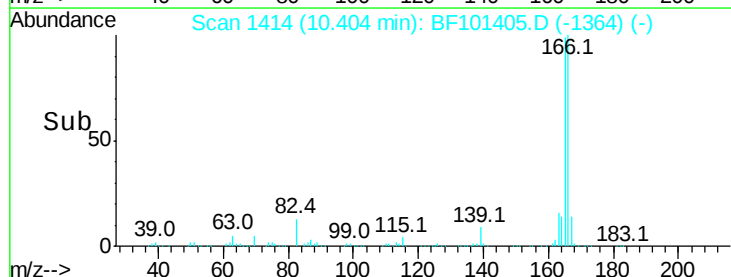
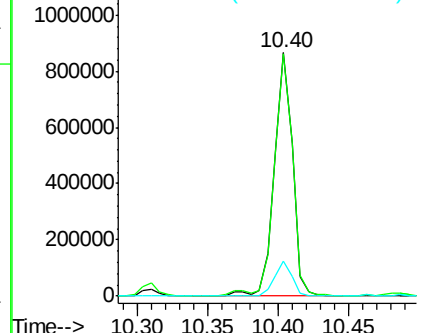
167 14.2 10.6 16.0

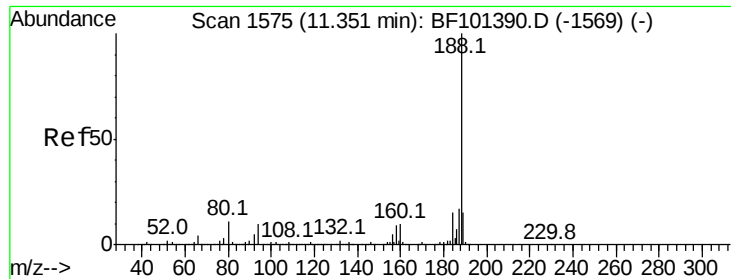


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





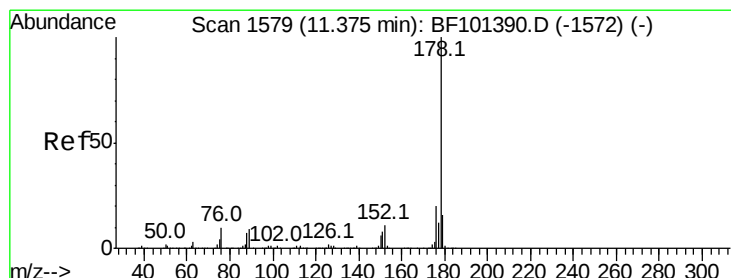
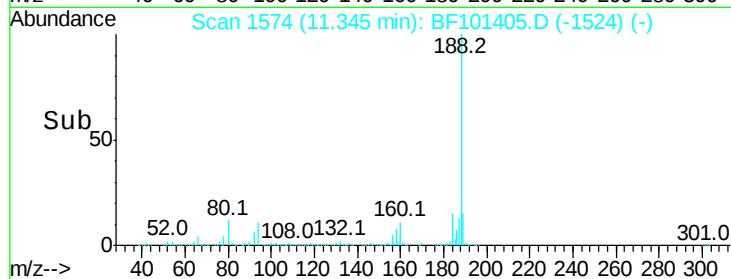
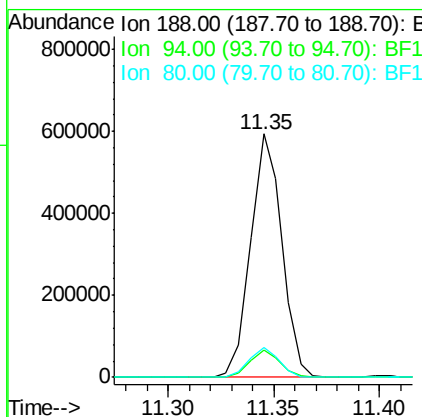
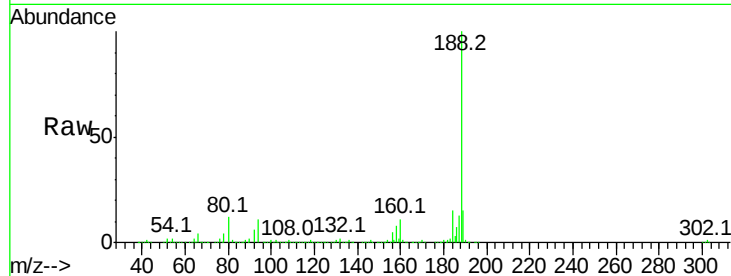
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.0	8.5	12.7
80	12.2	9.2	13.8

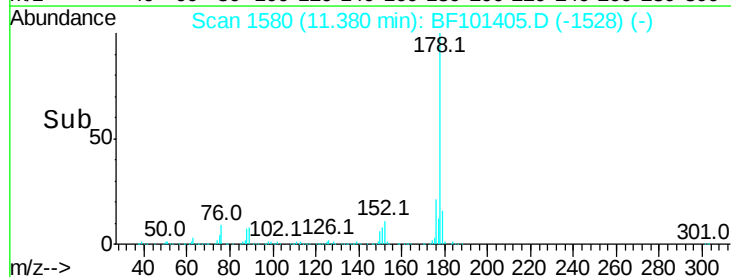
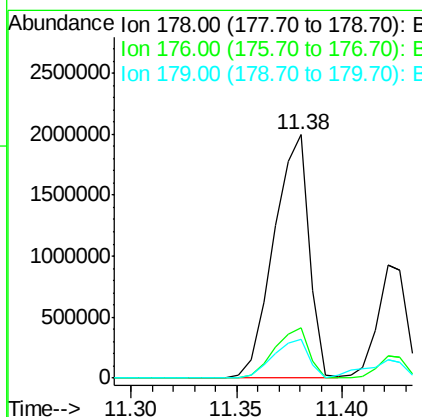
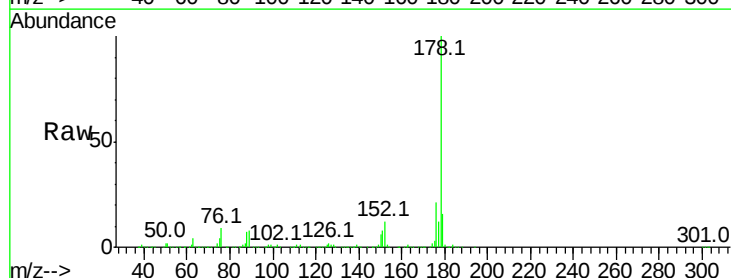
Manual Integrations
APPROVED

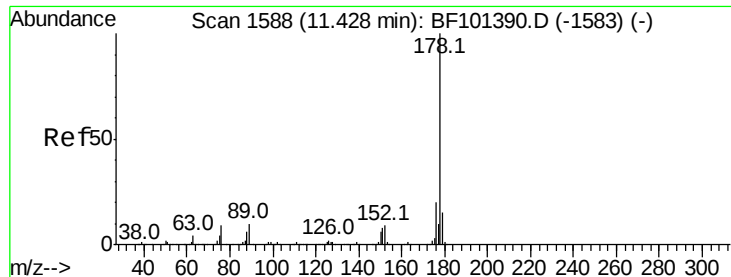
Sohil
12/15/2017 6:44:20 PM



#70
Phenanthrene
Concen: 68.283 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.7	15.8	23.8
179	16.0	13.0	19.6





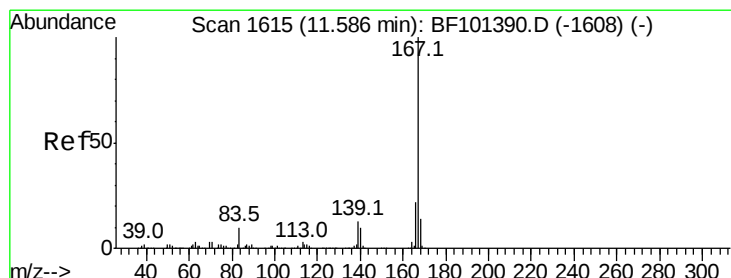
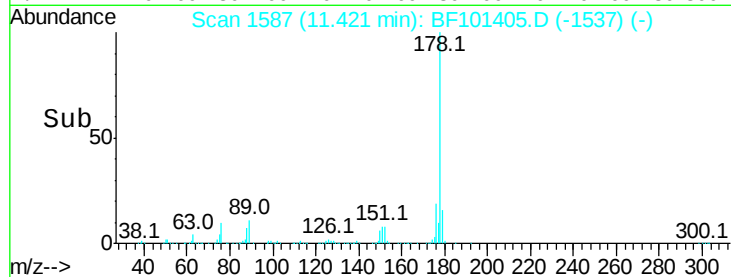
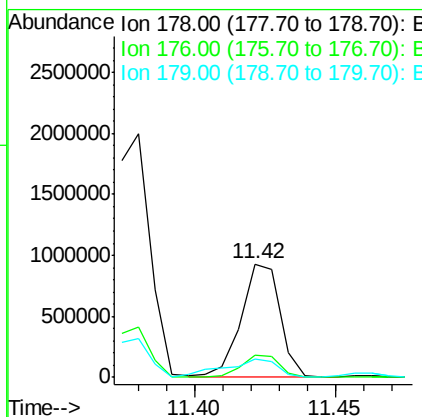
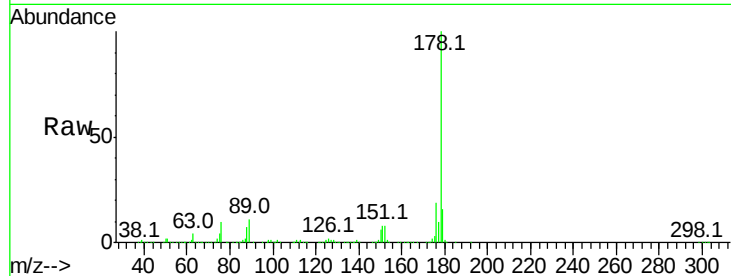
#71
 Anthracene
 Concen: 25.423 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101405.D
 Acq: 14 Dec 2017 20:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.8	12.6	19.0

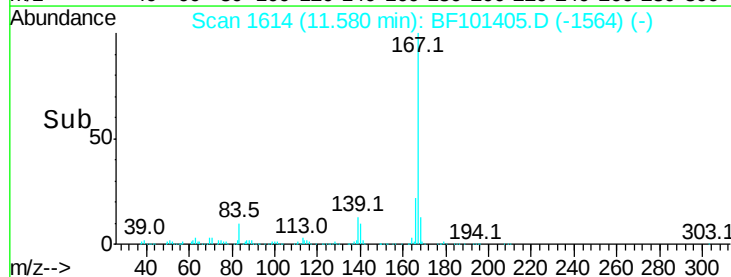
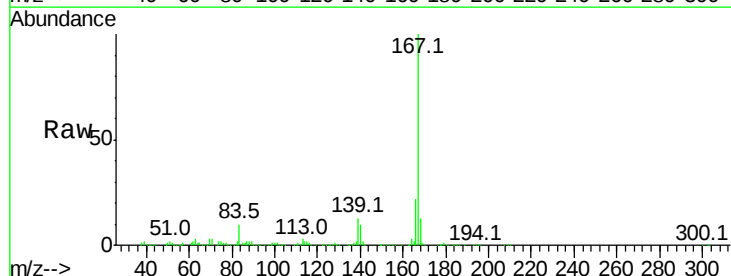
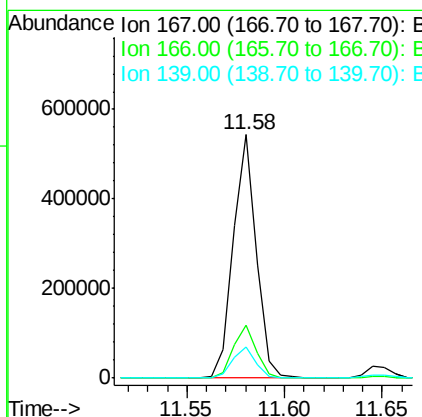
Manual Integrations
 APPROVED

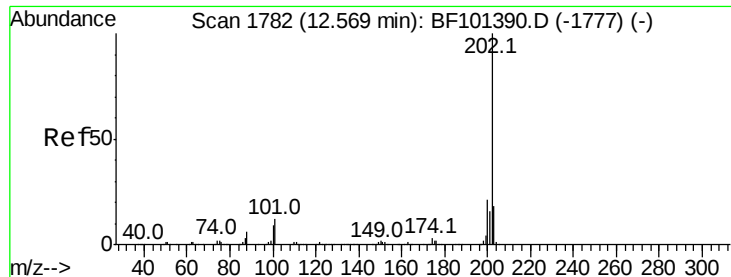
Sohil
 12/15/2017 6:44:20 PM



#72
 Carbazole
 Concen: 13.683 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF101405.D
 Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.6	26.4
139	12.8	10.9	16.3





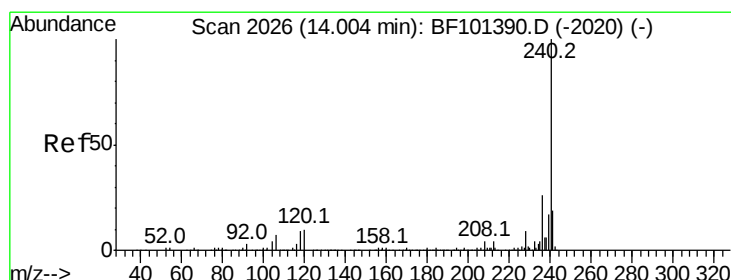
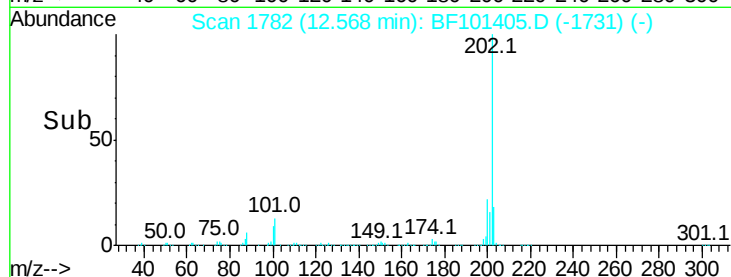
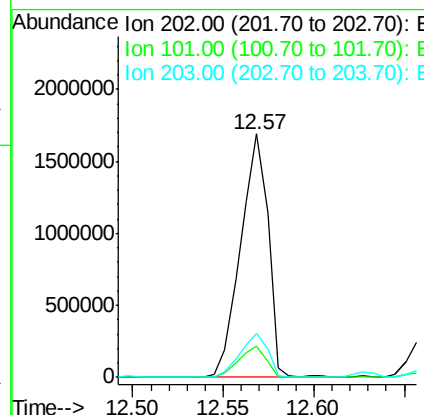
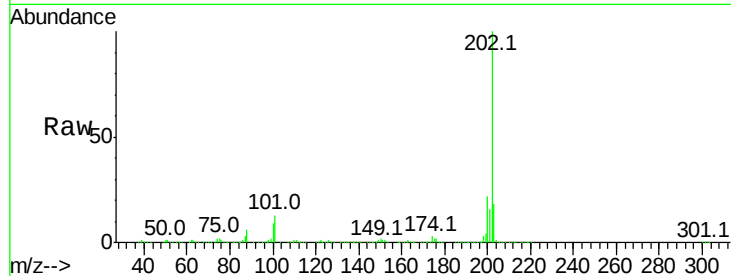
#74
Fluoranthene
Concen: 49.895 ng
RT: 12.57 min Scan# 1782
Delta R.T. -0.00 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	34.1
203	18.1	0.0	38.1

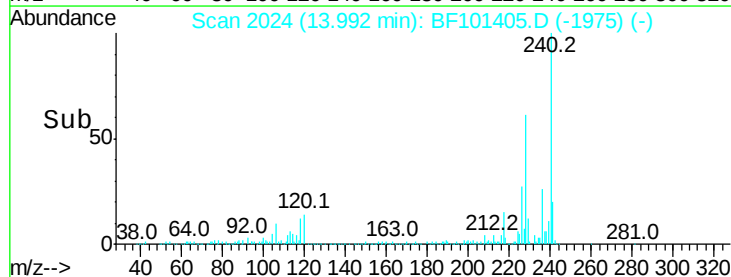
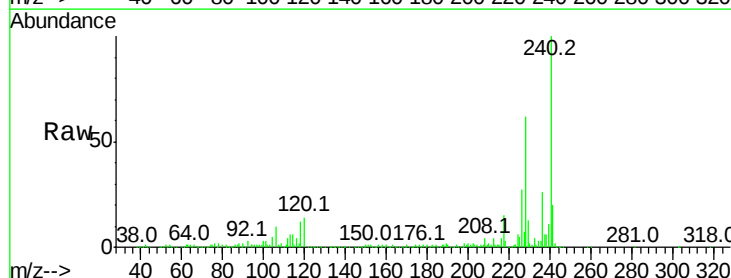
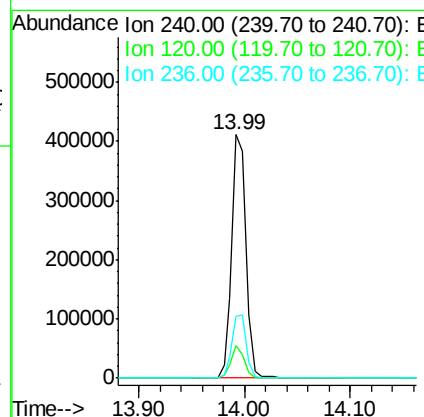
Manual Integrations
APPROVED

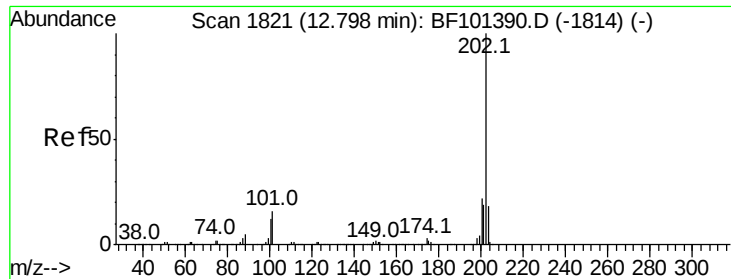
Sohil
12/15/2017 6:44:20 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.5	9.5	14.3
236	25.7	20.7	31.1





#77

Pvrene

Concen: 49.198 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.00 min

Lab File: BF101405.D

Acq: 14 Dec 2017 20:43

Instrument :

BNA_F

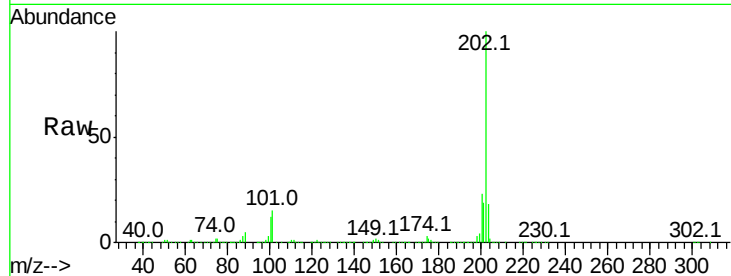
ClientSampleId :

WC-41446854-01

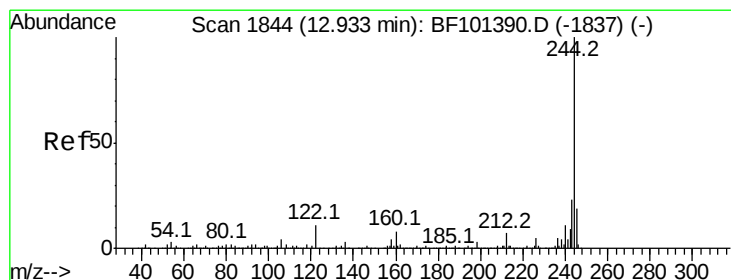
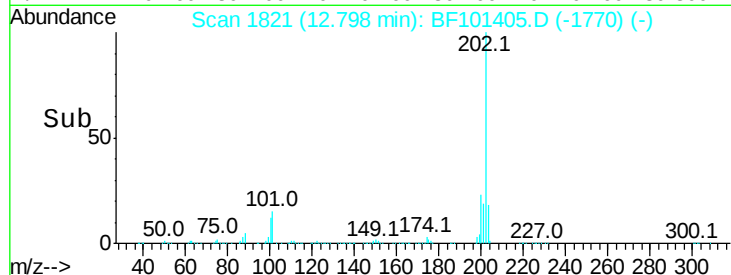
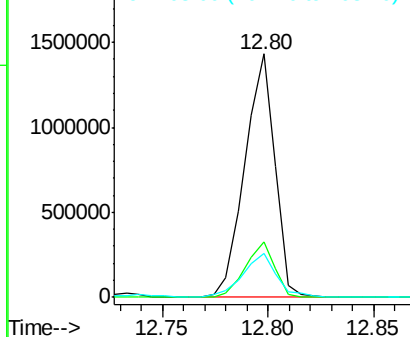
Tot Ion:	202	Resp:	1415617
Ion Ratio	Lower	Upper	
202	100		
200	22.6	17.4	26.2
203	18.2	14.3	21.5

Manual Integrations
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12/15/2017 6:44:20 PM



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: 0.214 ng

RT: 12.92 min Scan# 1842

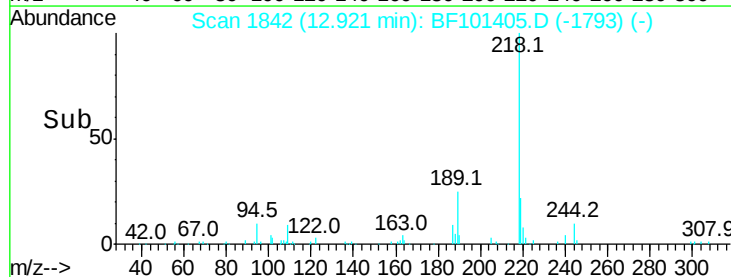
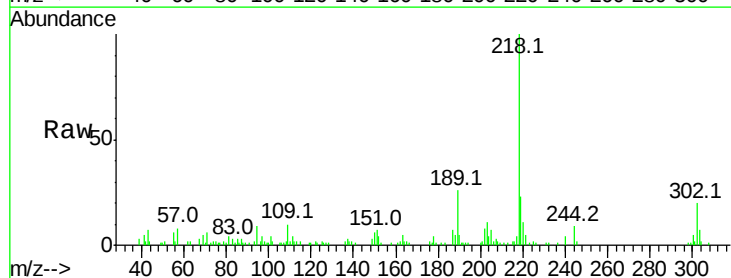
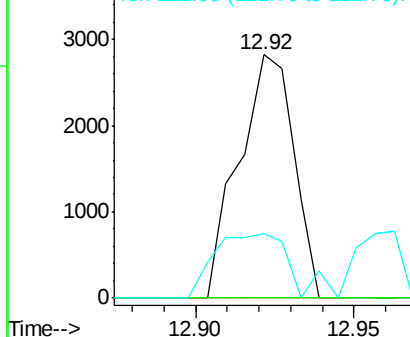
Delta R.T. -0.01 min

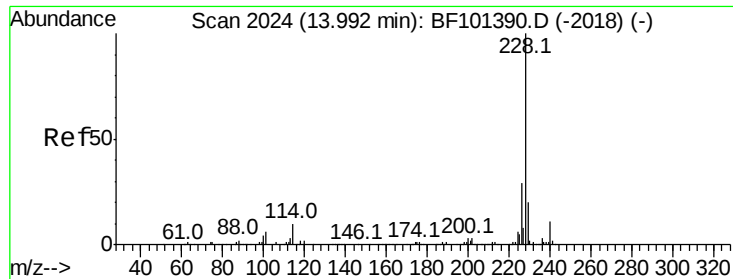
Lab File: BF101405.D

Acq: 14 Dec 2017 20:43

Tgt Ion:	244	Resp:	3401
Ion Ratio	Lower	Upper	
244	100		
212	0.0	5.4	8.0#
122	26.3	11.0	16.4#

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





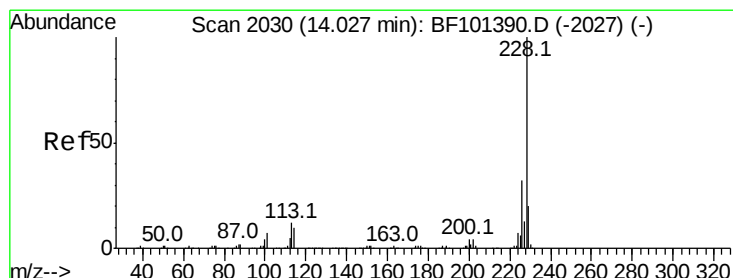
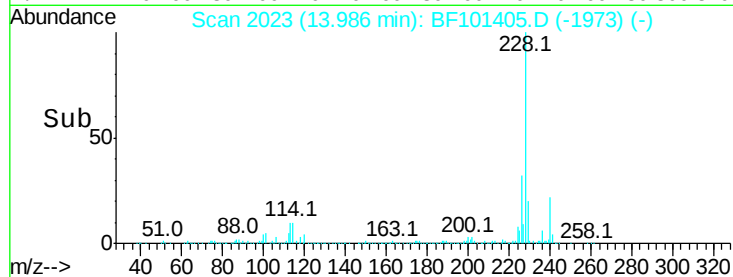
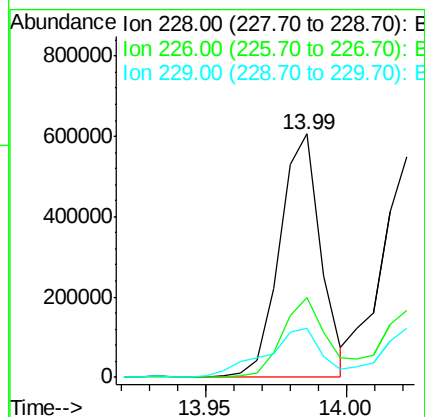
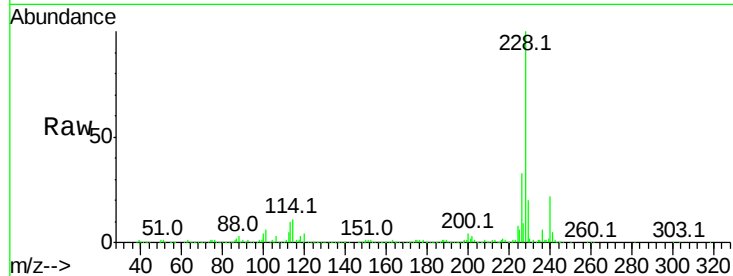
#80
Benzo(a)anthracene
Concen: 24.038 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion:	228	Resp:	608550
Ion Ratio	Lower	Upper	
228	100		
226	32.5	22.6	33.8
229	20.3	15.8	23.6

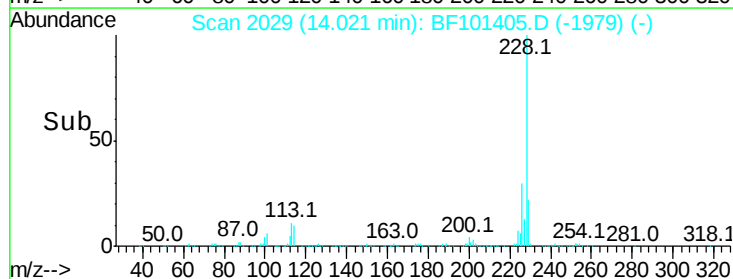
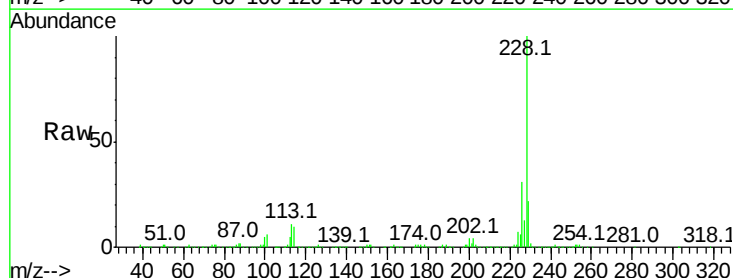
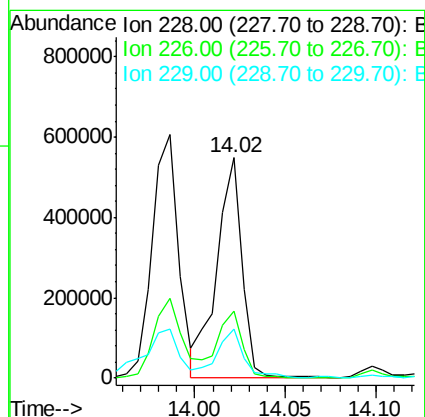
Manual Integrations
APPROVED

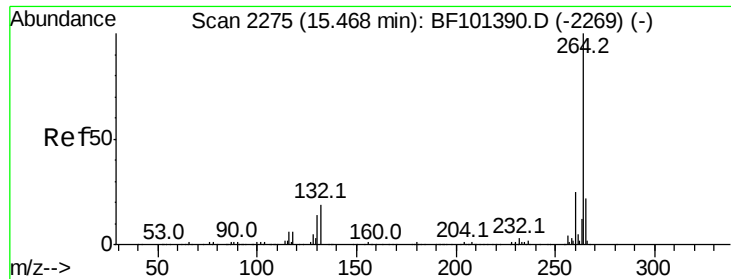
Sohil
12/15/2017 6:44:20 PM



#82
Chrysene
Concen: 22.067 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion:	228	Resp:	527481
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.0	37.6
229	22.4	16.2	24.4





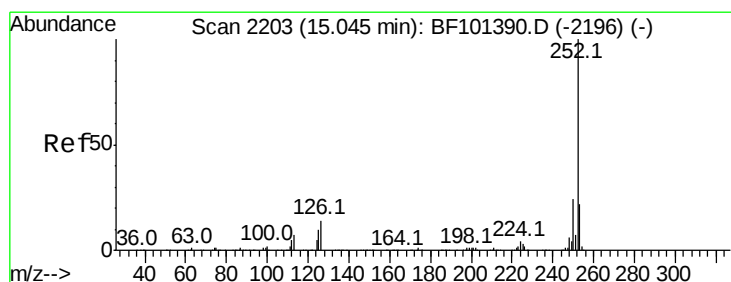
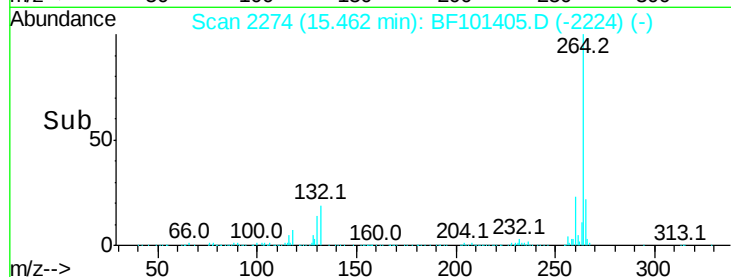
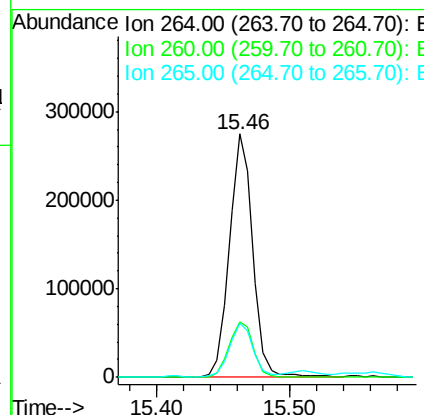
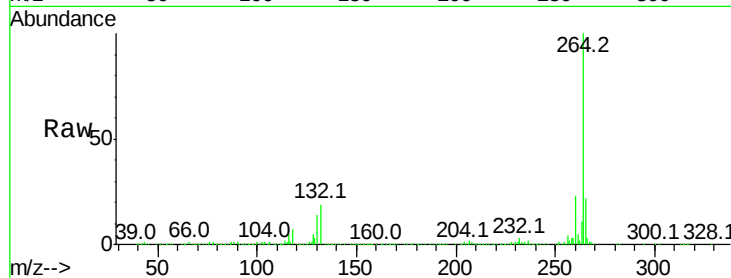
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.2	28.8
265	22.0	17.5	26.3

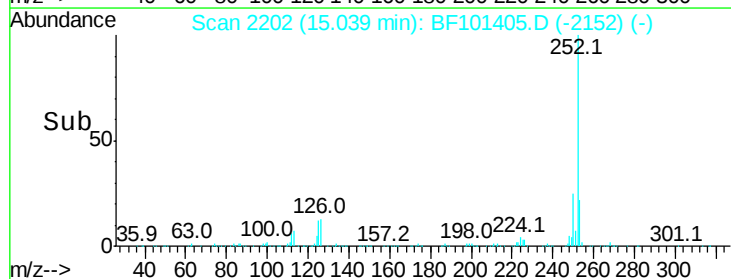
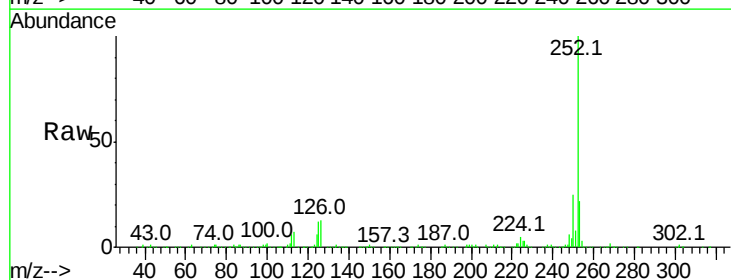
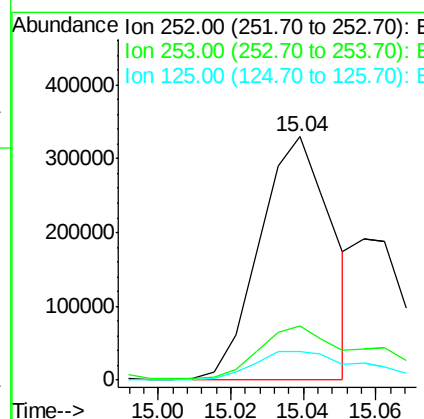
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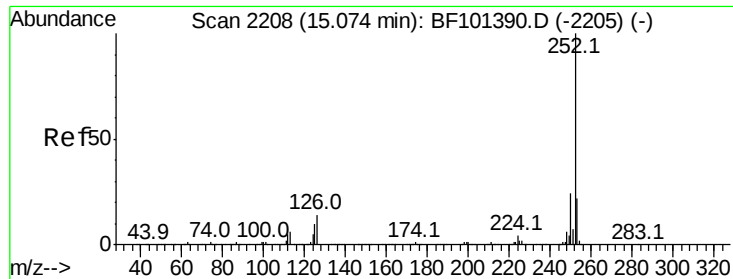
Sohil
12/15/2017 6:44:20 PM



#87
Benzo(b)fluoranthene
Concen: 22.107 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.6
125	12.0	9.0	13.6





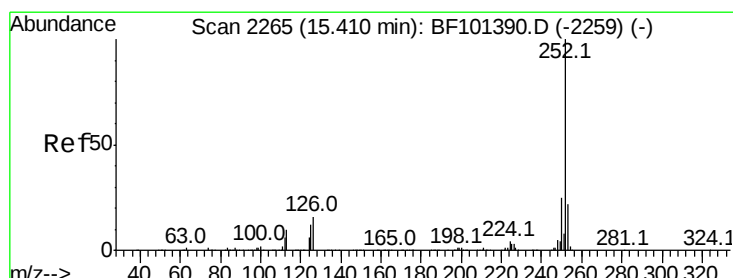
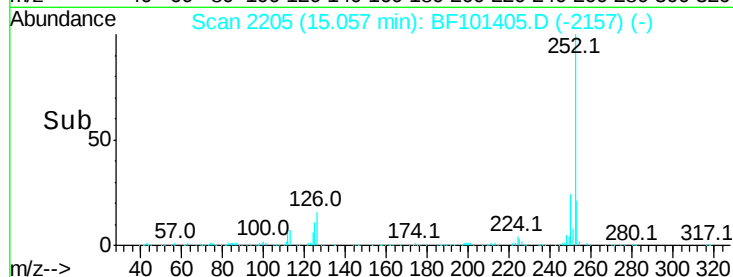
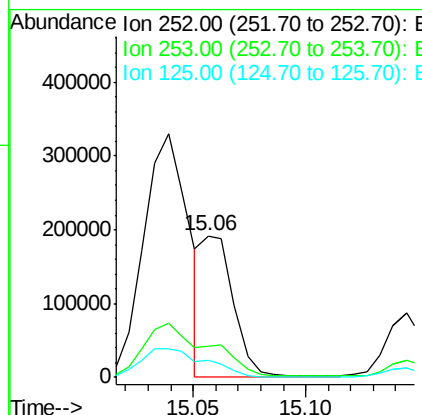
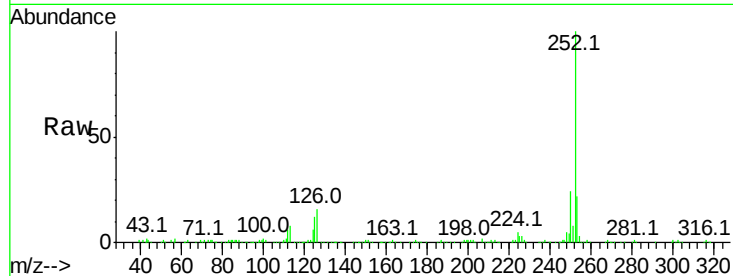
#88
Benzo(k)fluoranthene
Concen: 9.184 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Instrument :
BNA_F
ClientSampleId :
WC-41446854-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.9	26.9
125	11.6	10.2	15.2

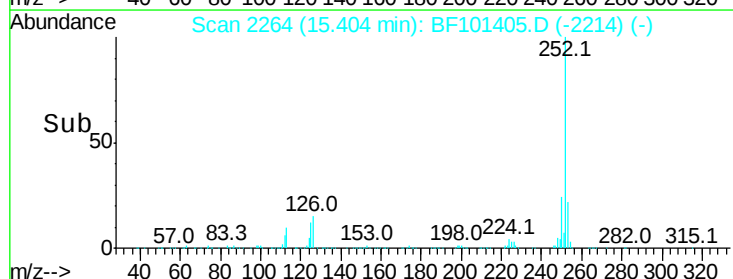
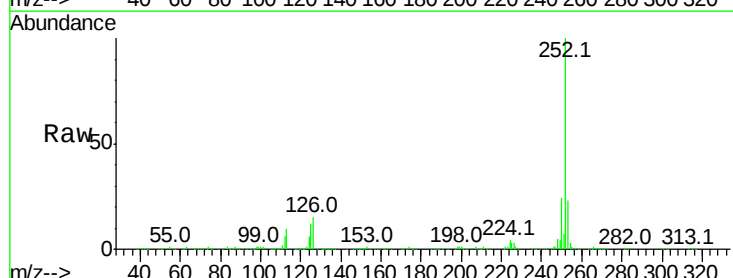
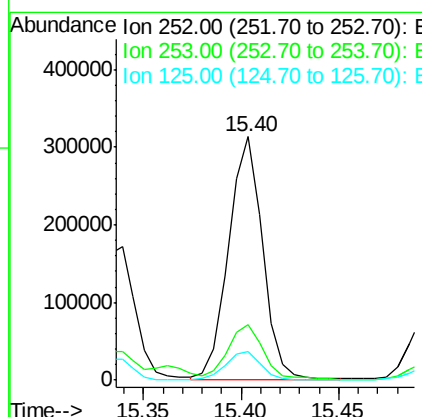
Manual Integrations
APPROVED

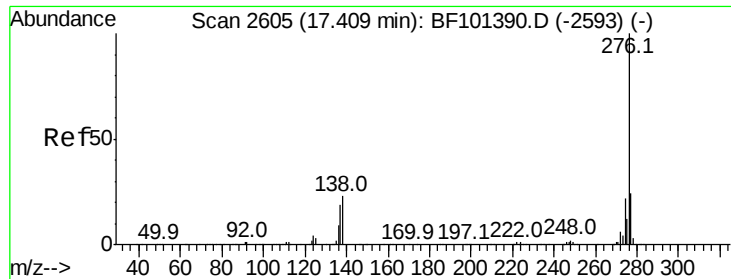
Sohil
12/15/2017 6:44:20 PM



#89
Benzo(a)pyrene
Concen: 19.889 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101405.D
Acq: 14 Dec 2017 20:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	11.9	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 11.419 ng
 RT: 17.39 min Scan# 2601
 Delta R.T. -0.02 min
 Lab File: BF101405.D
 Acq: 14 Dec 2017 20:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-41446854-01

Tot Ion:	276	Resp:	183682
Ion Ratio		Lower	Upper
276	100		
277	24.0	17.9	26.9
138	23.4	21.8	32.8

Manual Integrations
 APPROVED

Sohil
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