

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
 Data File : BF101603.D
 Acq On : 21 Dec 2017 13:35
 Operator : SJ/JU
 Sample : I6681-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-A

Manual Integrations
 APPROVED

Sohil
 12/22/2017 12:41:42 PM

Quant Time: Dec 21 14:59:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 14:25:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	148481	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	557898	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	211277	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	315898	20.00	ng	0.00
75) Chrysene-d12	13.99	240	221685	20.00	ng	0.02
86) Perylene-d12	15.46	264	313763	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1027143	103.04	ng	0.01
7) Phenol-d6	6.44	99	1189683	95.90	ng	0.00
23) Nitrobenzene-d5	7.36	82	771497	76.98	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	170438	83.72	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	1059655	77.80	ng	0.00
78) Terphenyl-d14	12.91	244	753551	81.95	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.45	94	41496	2.935	ng	82
31) Naphthalene	8.10	128	59015	2.101	ng	98
37) 2-Methylnaphthalene	8.79	142	51956	2.839	ng	99
48) Acenaphthylene	9.69	152	182737	8.070	ng	98
49) Dimethylphthalate	9.55	163	166212	9.780	ng	100
51) Acenaphthene	9.86	154	87733	6.449	ng	95
54) Dibenzofuran	10.04	168	43125	2.494	ng	# 95
57) Fluorene	10.38	166	126915	8.677	ng	100
70) Phenanthrene	11.35	178	1299813	73.989	ng	98
71) Anthracene	11.40	178	540674	30.130	ng	99
72) Carbazole	11.56	167	80164	4.771	ng	96
74) Fluoranthene	12.56	202	2934060	159.117	ng	96
77) Pyrene	12.79	202	3031455	182.207	ng	98
80) Benzo(a)anthracene	13.98	228	2407300	164.453	ng	97
82) Chrysene	14.02	228	1917421	138.731	ng	96
85) Indeno(1,2,3-cd)pyrene	16.96	276	1446548	117.532	ng	# 88
87) Benzo(b)fluoranthene	15.05	252	3373833m	176.414	ng	
88) Benzo(k)fluoranthene	15.07	252	822496m	44.234	ng	
89) Benzo(a)pyrene	15.42	252	2412027	136.813	ng	95
90) Dibenzo(a,h)anthracene	16.95	278	357361m	23.608	ng	
91) Benzo(g,h,i)perylene	17.42	276	1299956	86.729	ng	93

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

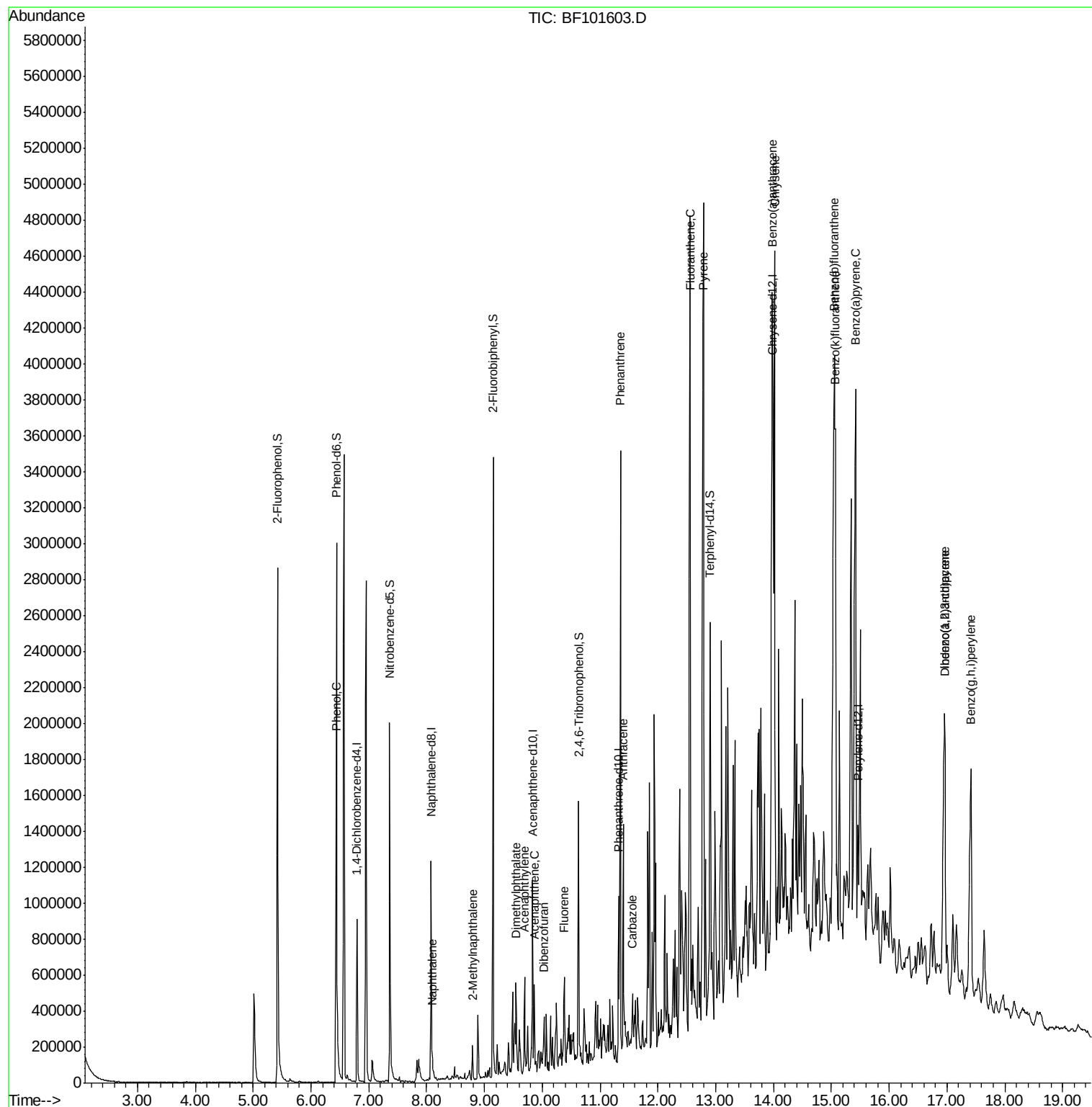
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
Data File : BF101603.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

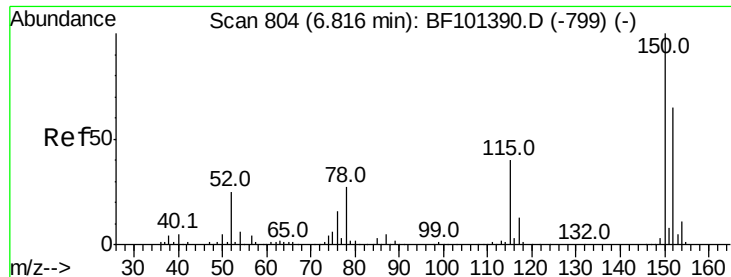
Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Manual Integrations
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12/22/2017 12:41:42 PM

Quant Time: Dec 21 14:59:06 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 20 14:25:04 2017
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#1

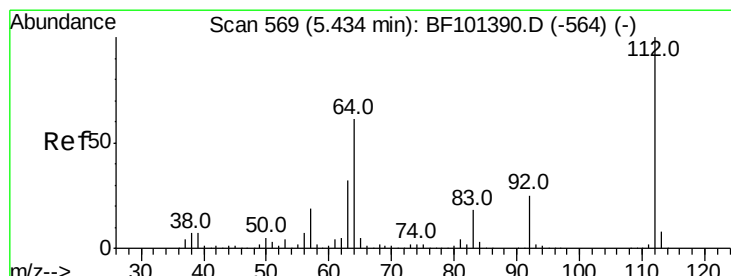
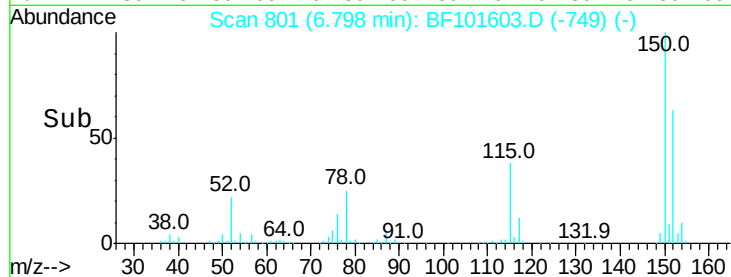
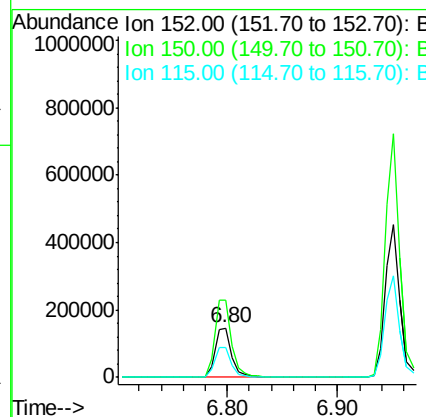
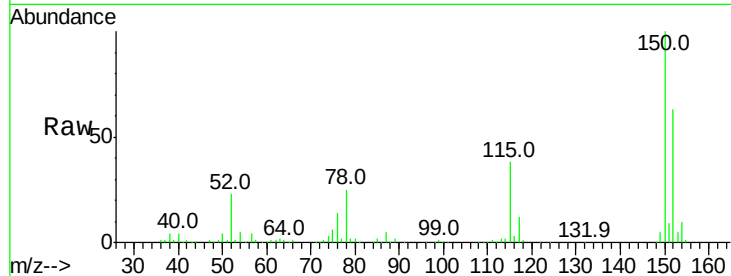
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	124.6	186.8
115	60.2	50.1	75.1

Manual Integrations
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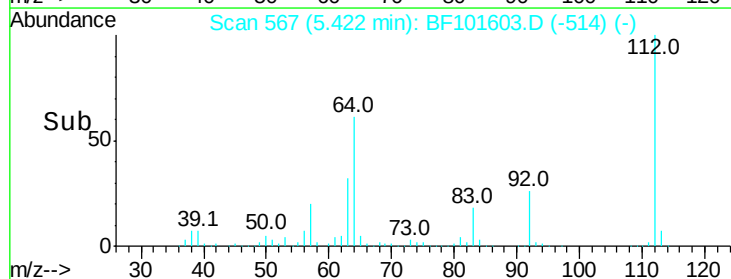
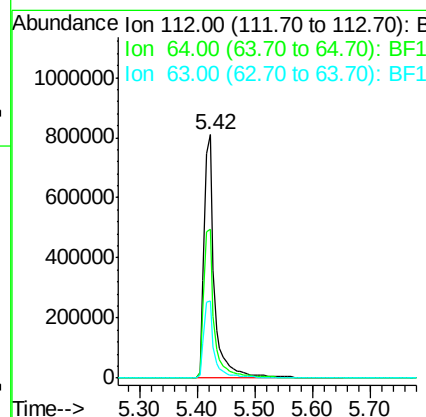
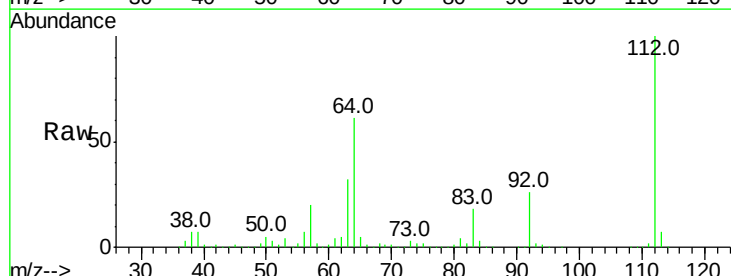
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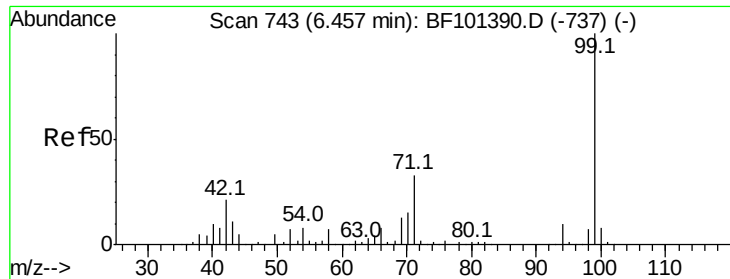


#5

2-Fluorophenol
Concen: 103.044 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	47.9	71.9
63	31.6	23.7	35.5





#7

Phenol-d6

Concen: 95.899 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-A

Tot Ion: 99 Resp: 1189683

Ion Ratio Lower Upper

99 100

42 20.9 14.5 21.7

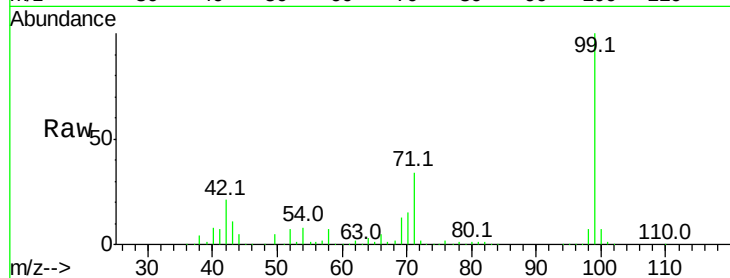
71 34.1 25.4 38.0

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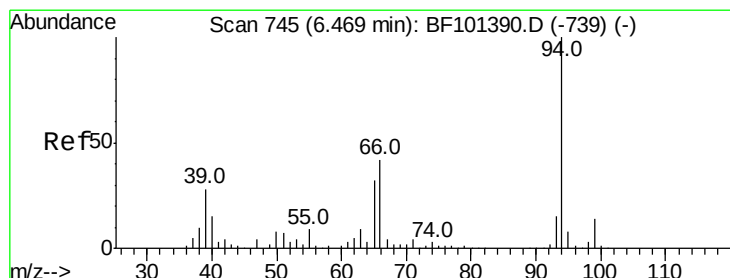
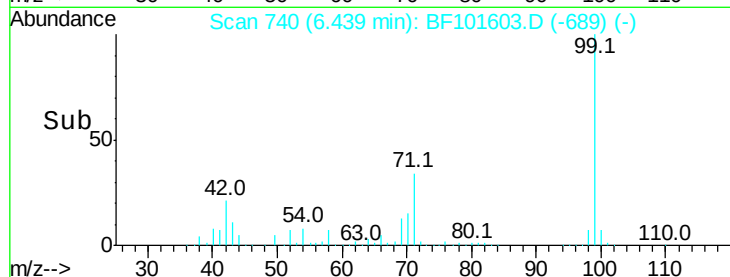
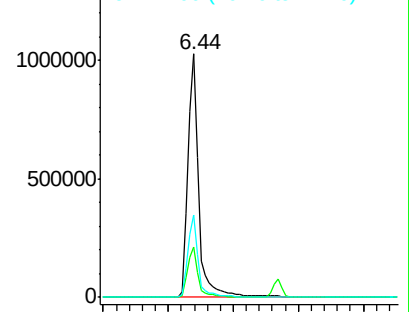
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.935 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

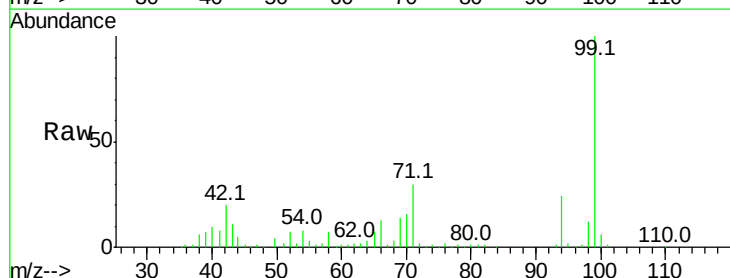
Tgt Ion: 94 Resp: 41496

Ion Ratio Lower Upper

94 100

65 30.8 7.9 47.9

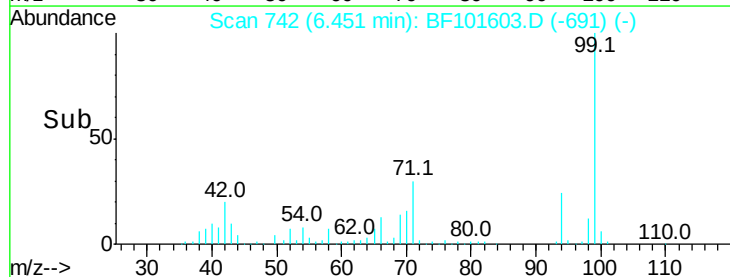
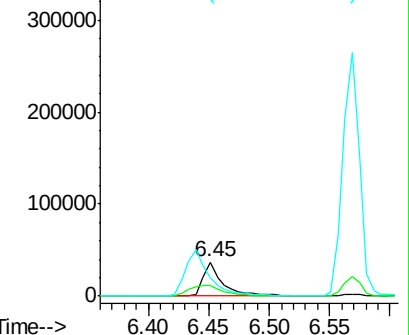
66 52.8 16.2 56.2

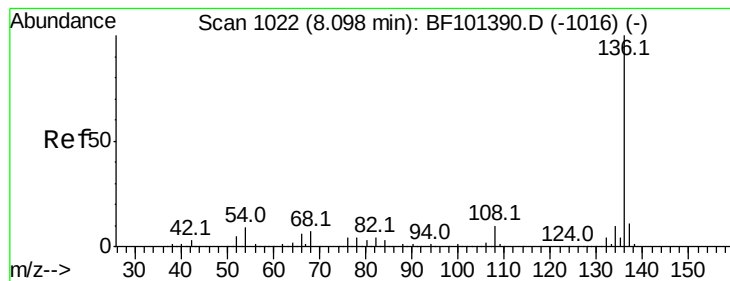


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

Instrument :

BNA_F

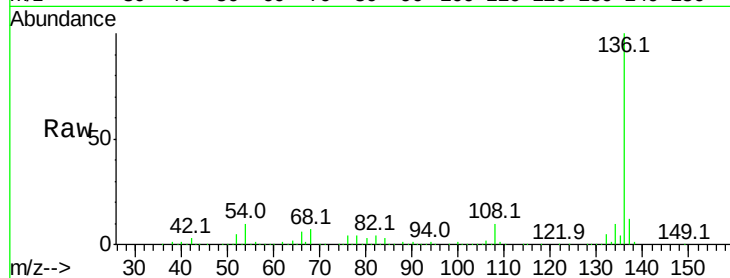
ClientSampleId :

PL-01-121917-A

Tot Ion	Ratio	Resp	Lower	Upper
136	100	557898		
137	11.6	8.9	13.3	
54	9.7	6.6	9.8	
68	7.0	5.0	7.4	

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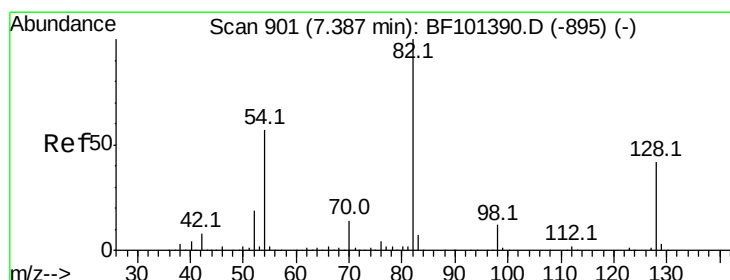
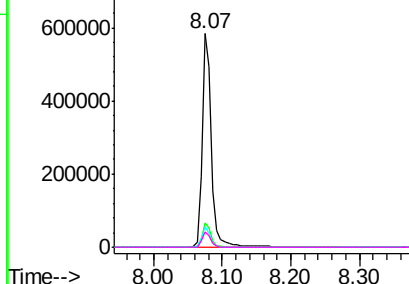
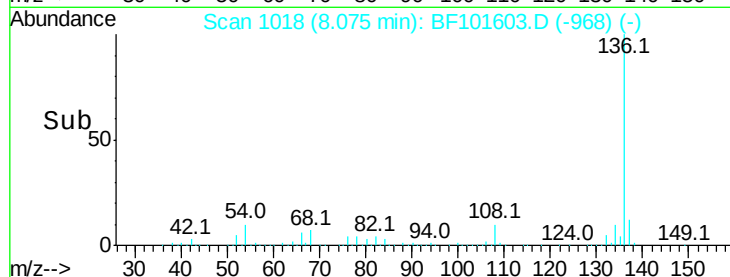


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 76.978 ng

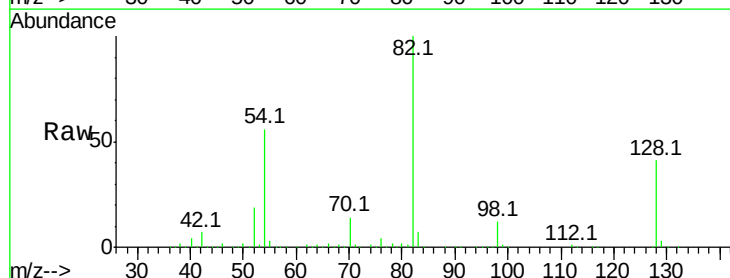
RT: 7.36 min Scan# 897

Delta R.T. -0.01 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

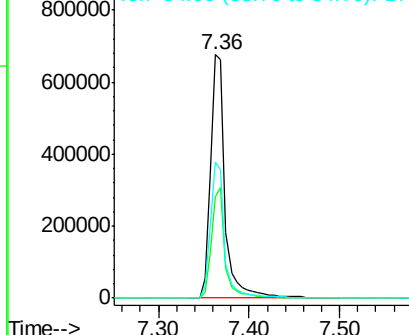
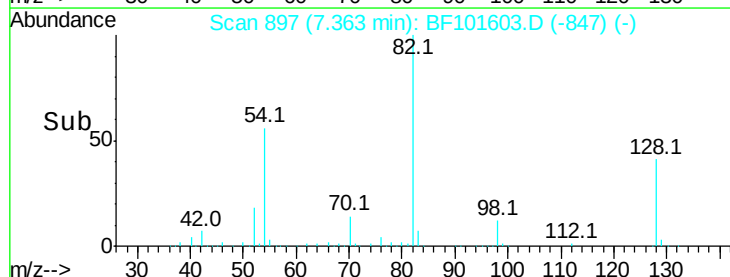
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	771497		
128	41.5	36.1	54.1	
54	55.9	41.4	62.2	

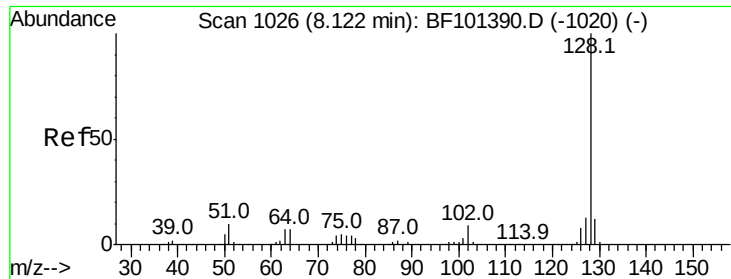


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





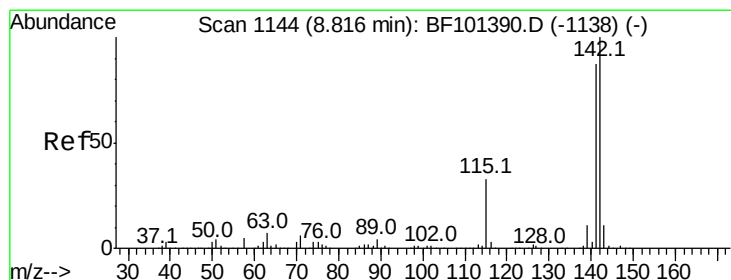
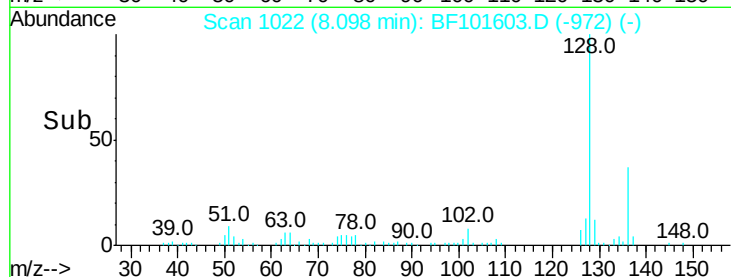
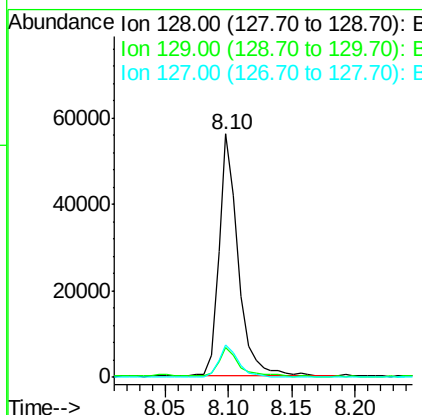
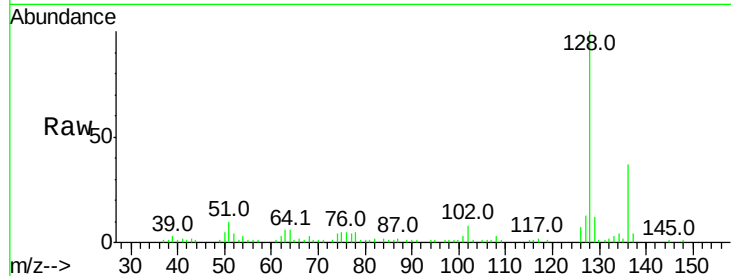
#31
Naphthalene
Concen: 2.101 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion	Ratio	Resp Lower	Upper
128	100		
129	12.2	8.8	13.2
127	13.1	10.9	16.3

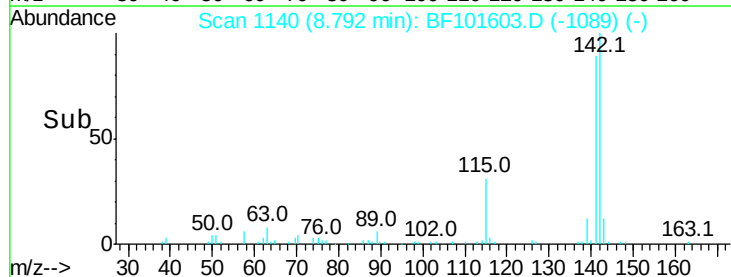
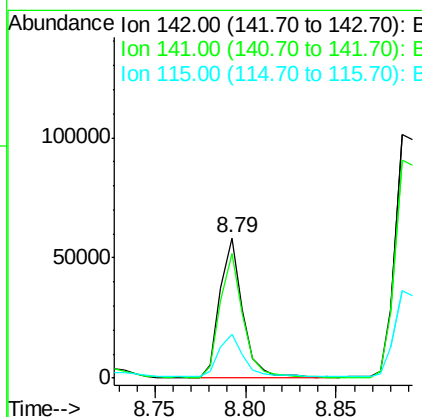
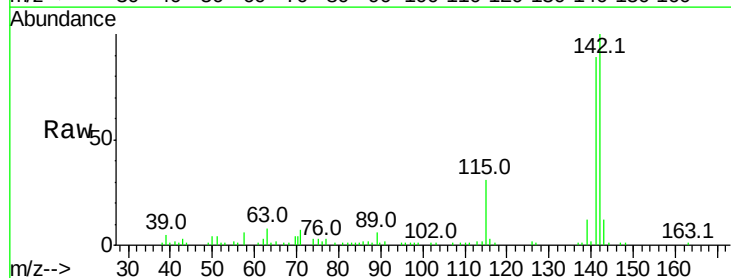
Manual Integrations
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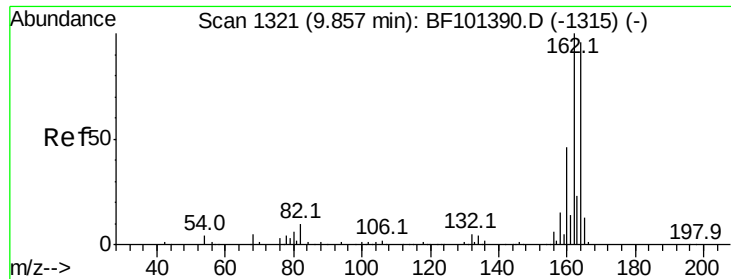
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#37
2-Methylnaphthalene
Concen: 2.839 ng
RT: 8.79 min Scan# 1140
Delta R.T. -0.00 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	89.5	70.8	106.2
115	31.4	26.1	39.1





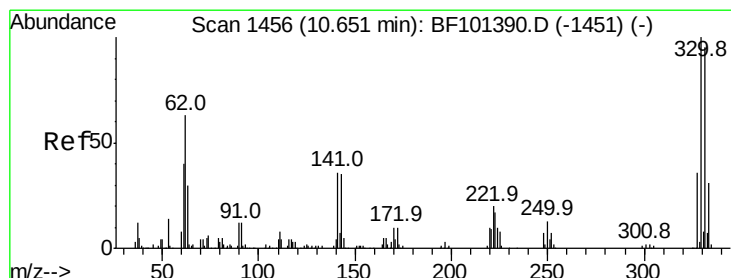
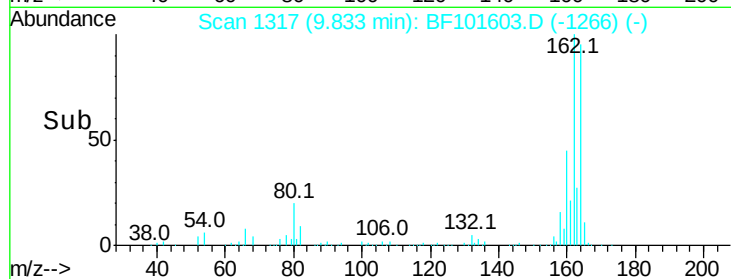
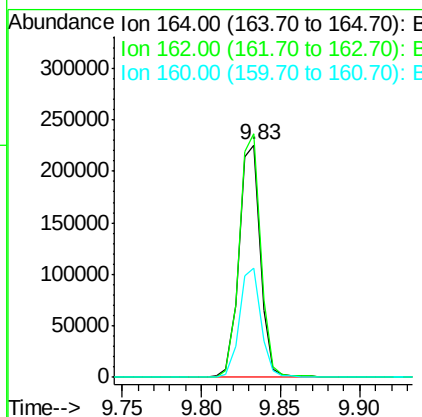
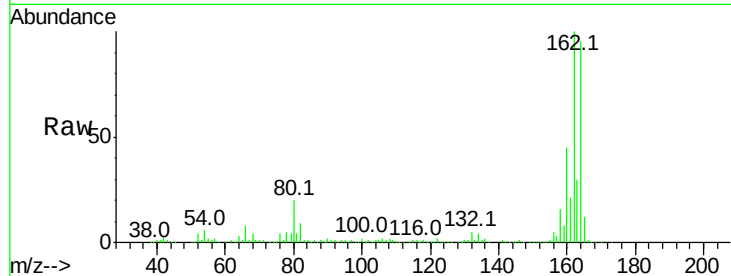
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.00 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion	Ratio	Resp	Lower	Upper
164	100	211277		
162	104.8	86.1	129.1	
160	47.2	38.3	57.5	

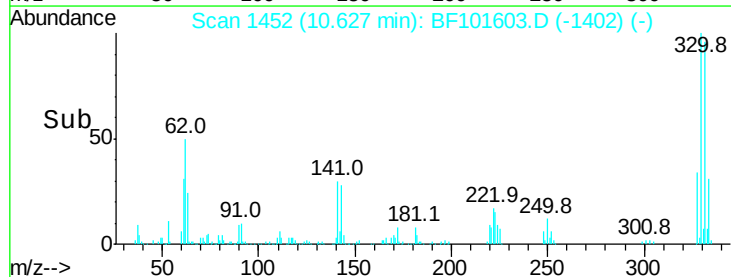
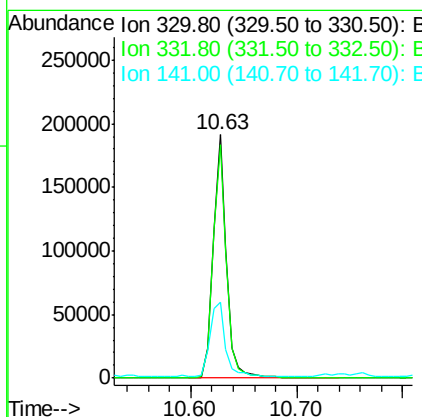
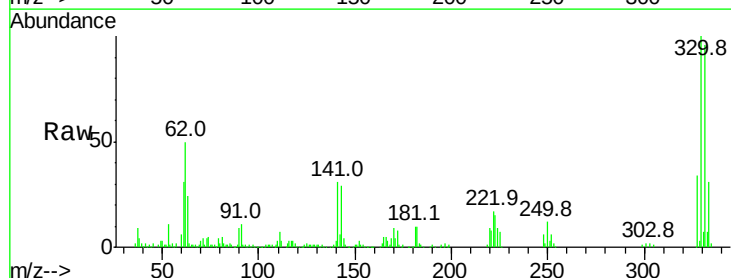
Manual Integrations
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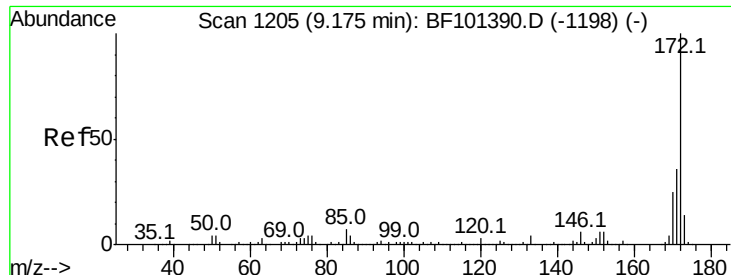
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#41
2,4,6-Tribromophenol
Concen: 83.720 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	170438		
332	97.8	77.0	115.6	
141	37.0	29.9	44.9	





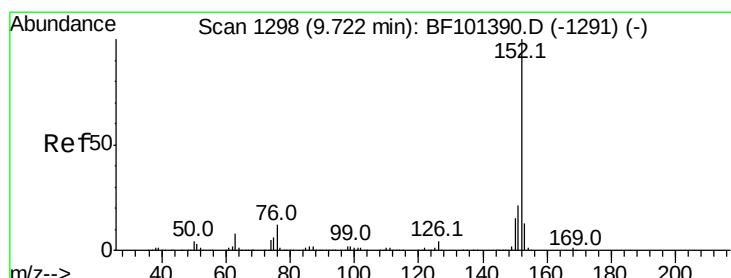
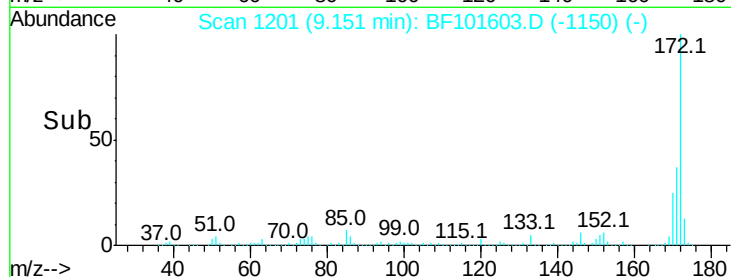
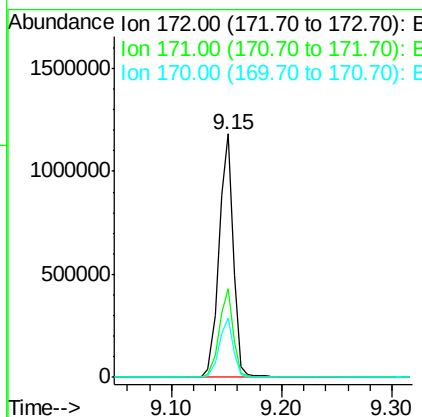
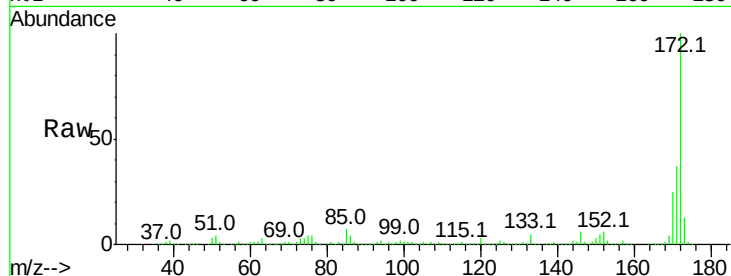
#44
2-Fluorobiphenyl
Concen: 77.802 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.00 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.7	44.5
170	24.6	19.6	29.4

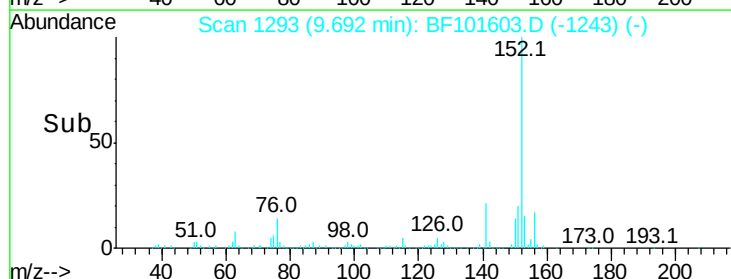
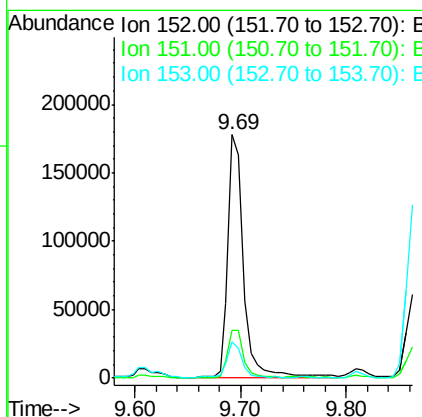
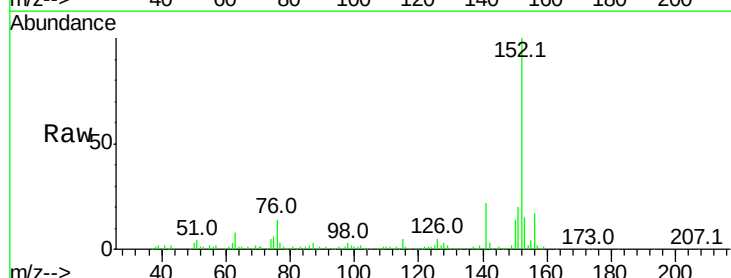
Manual Integrations
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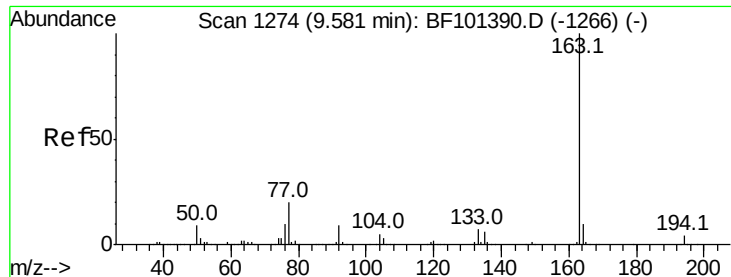
Sohil
12/22/2017 12:41:42 PM



#48
Acenaphthylene
Concen: 8.070 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.3	24.5
153	15.0	10.7	16.1





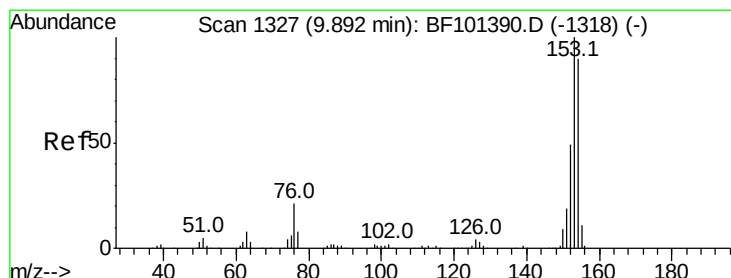
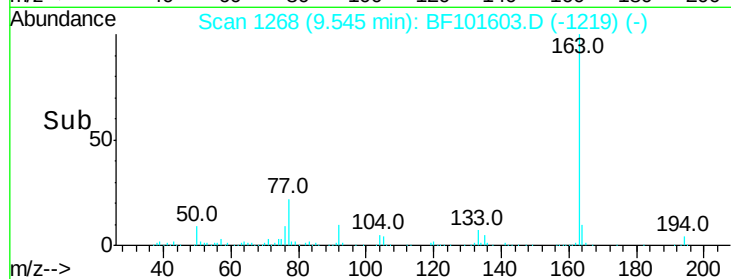
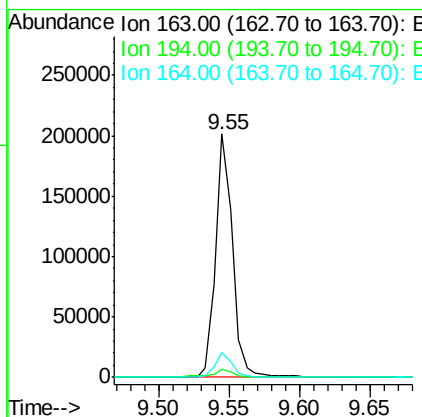
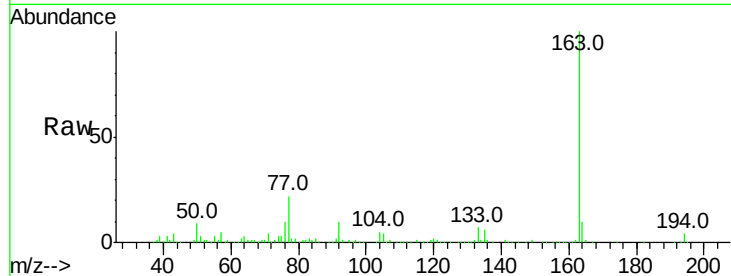
#49
Dimethylphthalate
Concen: 9.780 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampled :
PL-01-121917-A

Tot Ion	Ratio	Resp	Lower	Upper
163	100	166212		
194	3.6		2.7	4.1
164	10.2		8.2	12.2

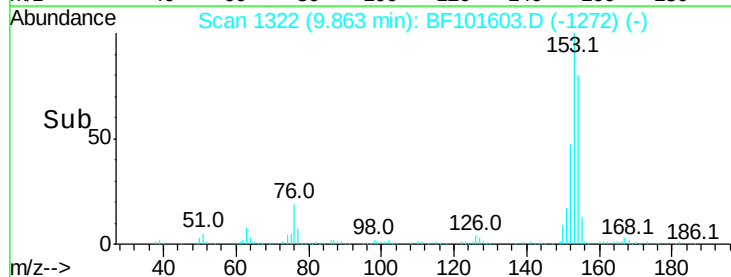
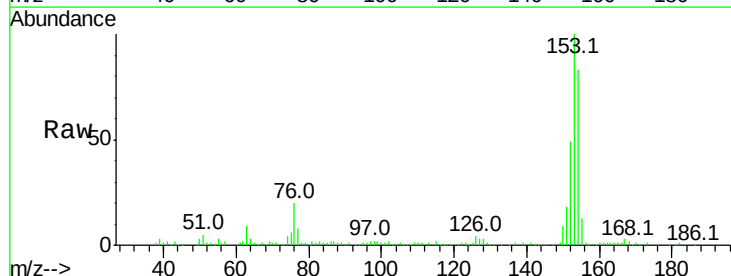
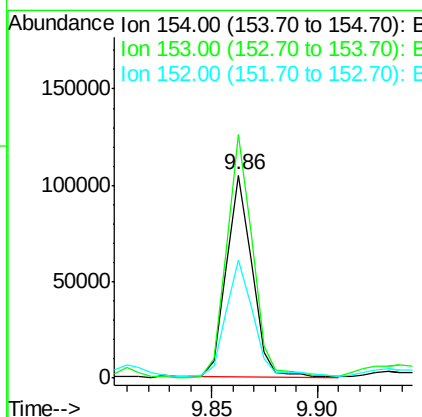
Manual Integrations
APPROVED

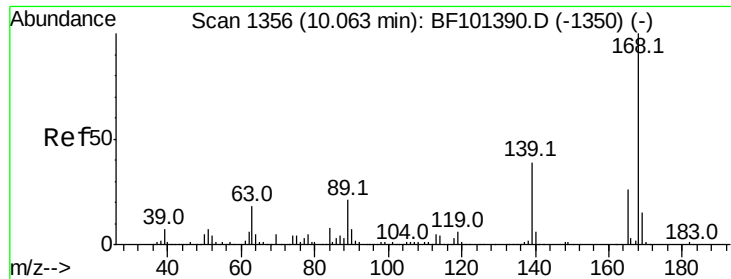
Sohil
12/22/2017 12:41:42 PM



#51
Acenaphthene
Concen: 6.449 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	87733		
153	119.9		91.2	136.8
152	58.2		43.8	65.8





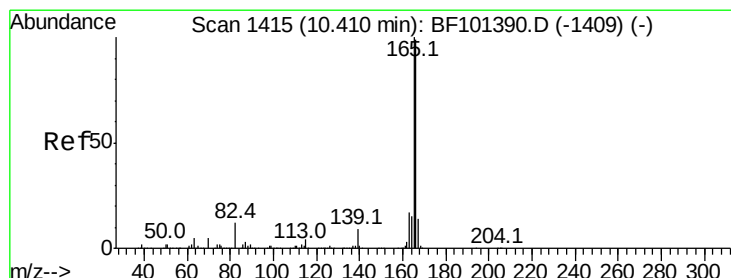
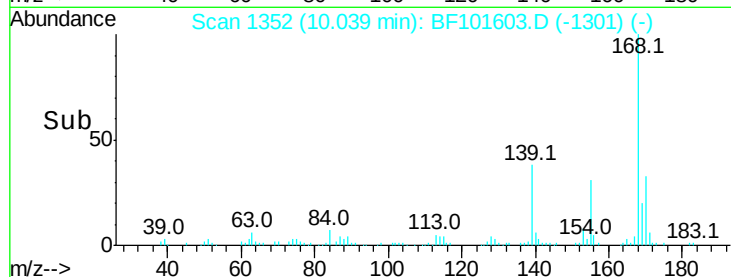
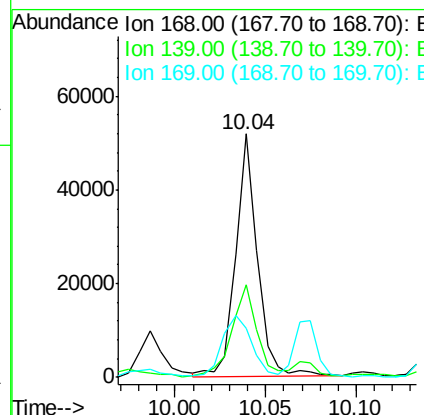
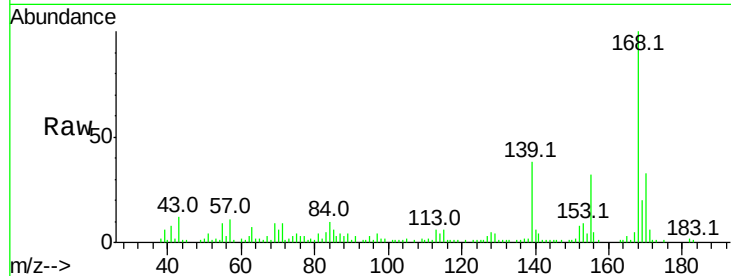
#54
Dibenzenofuran
Concen: 2.494 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.00 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion	Ratio	Resp	Lower	Upper
168	100	43125		
139	37.8		30.1	45.1
169	20.4		10.9	16.3

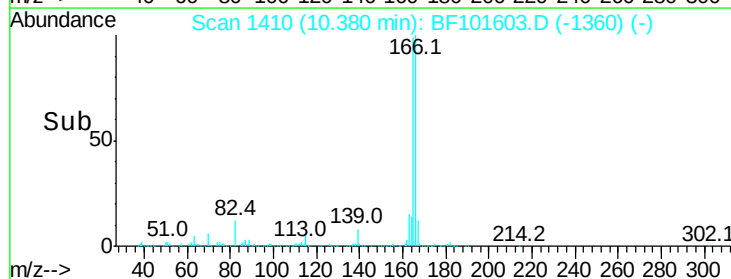
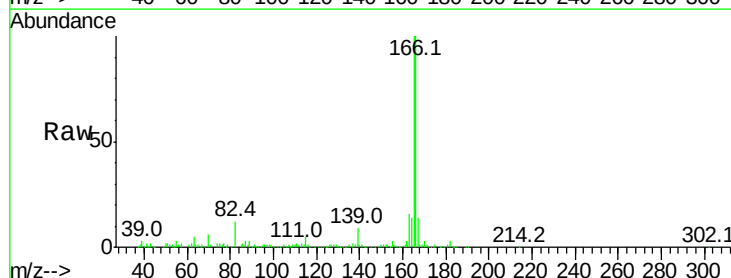
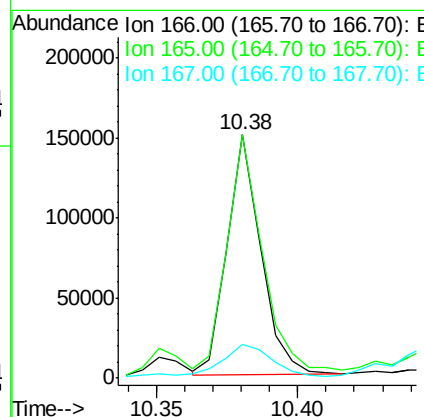
Manual Integrations
APPROVED

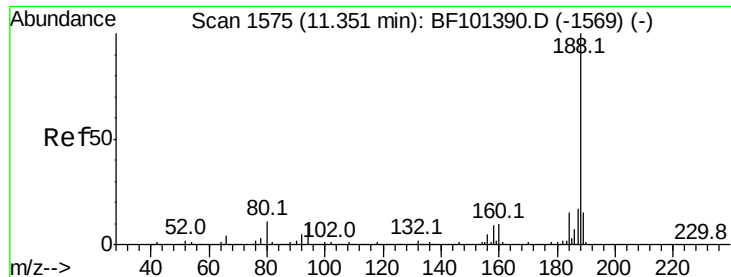
Sohil
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#57
Fluorene
Concen: 8.677 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	126915		
165	99.9		79.8	119.8
167	13.9		10.6	16.0





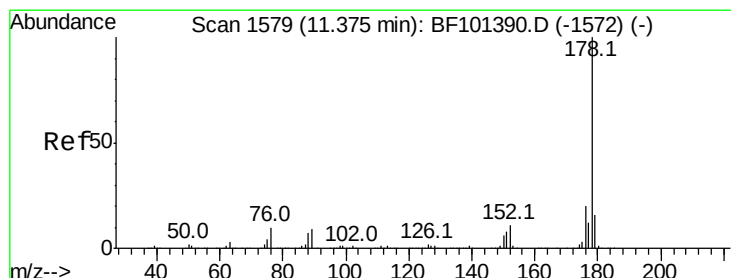
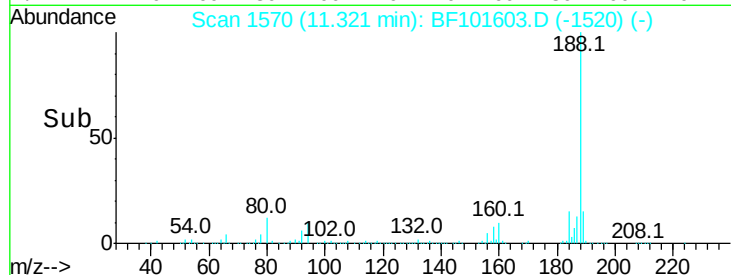
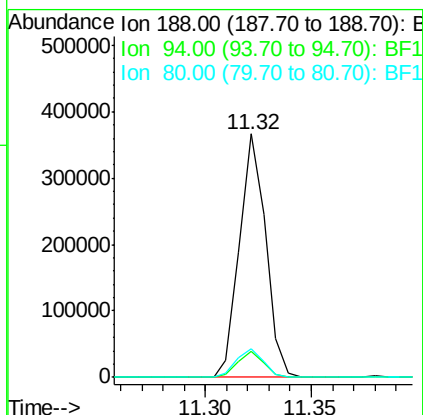
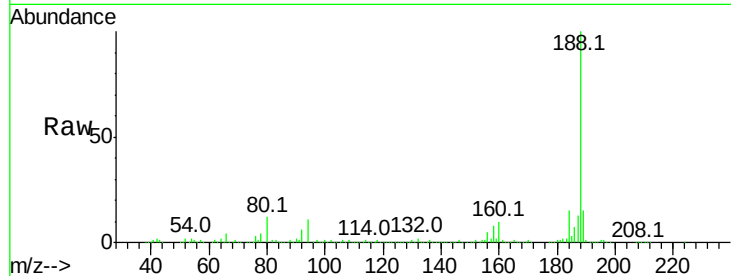
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.5	8.5	12.7
80	11.8	9.2	13.8

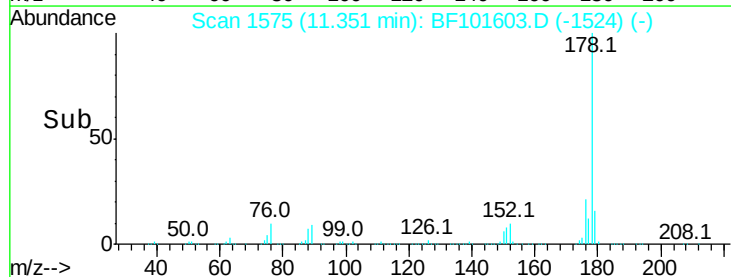
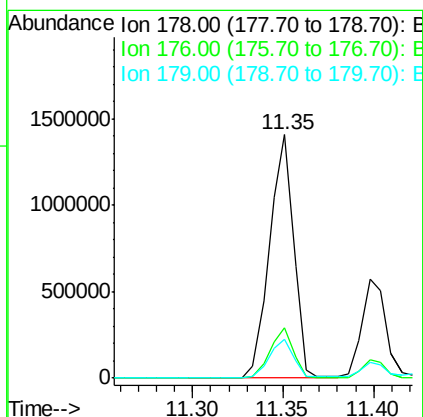
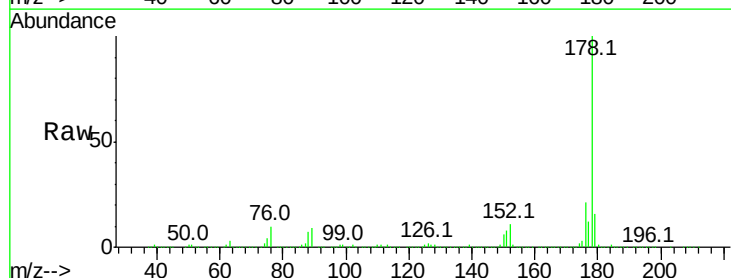
Manual Integrations
APPROVED

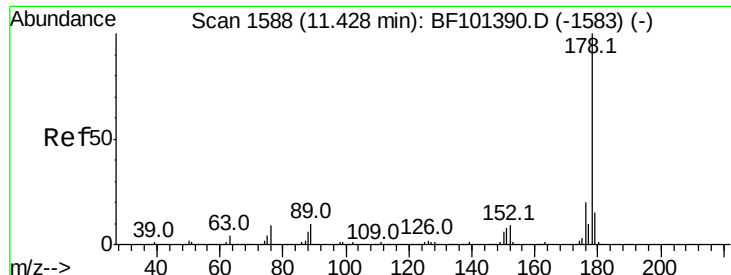
Sohil
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#70
Phenanthrene
Concen: 73.989 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.00 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.6	15.8	23.8
179	15.7	13.0	19.6





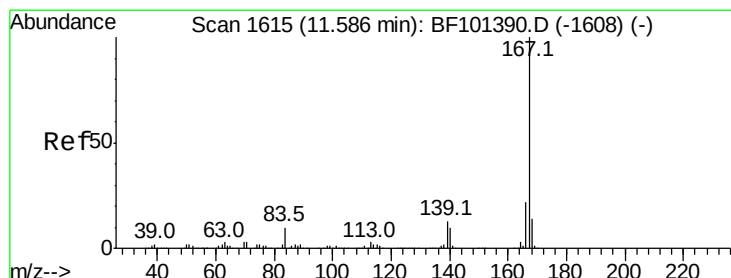
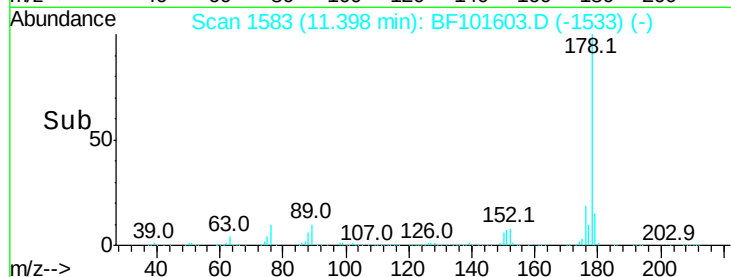
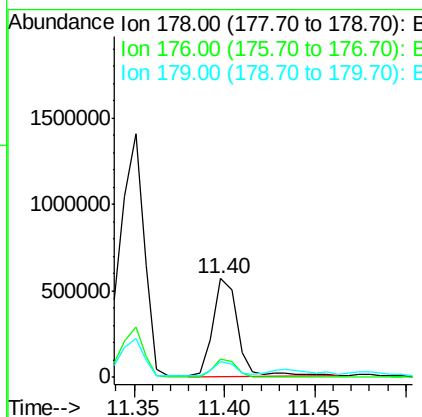
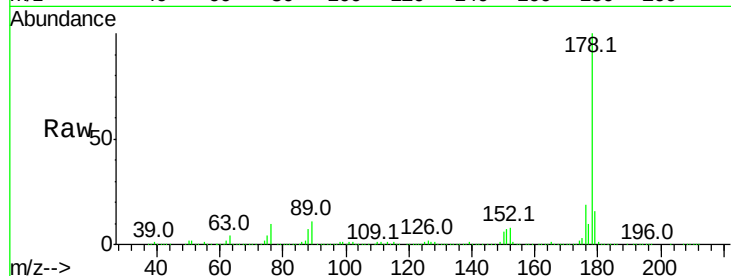
#71
 Anthracene
 Concen: 30.130 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF101603.D
 Acq: 21 Dec 2017 13:35

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.8	12.6	19.0

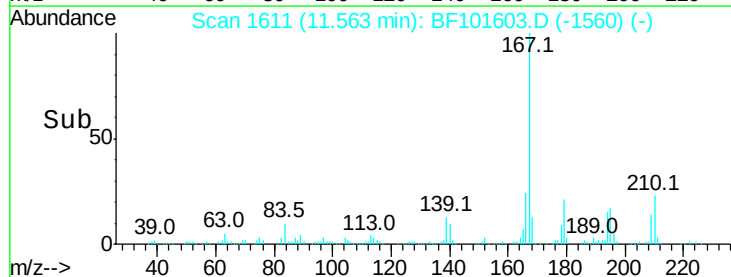
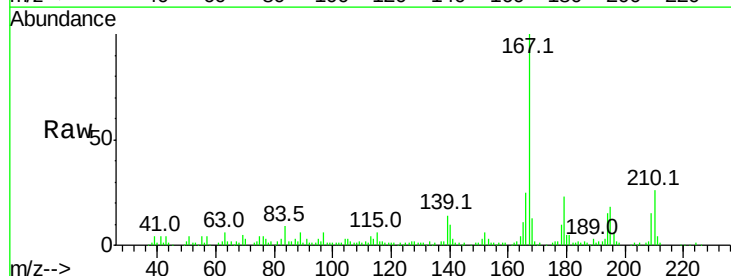
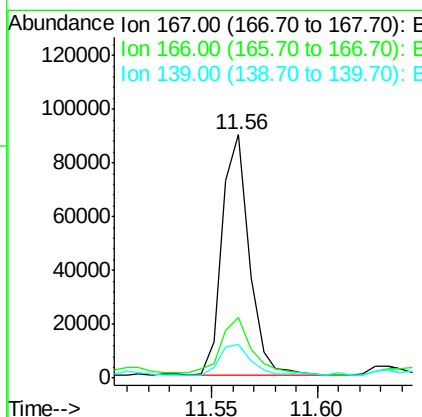
Manual Integrations
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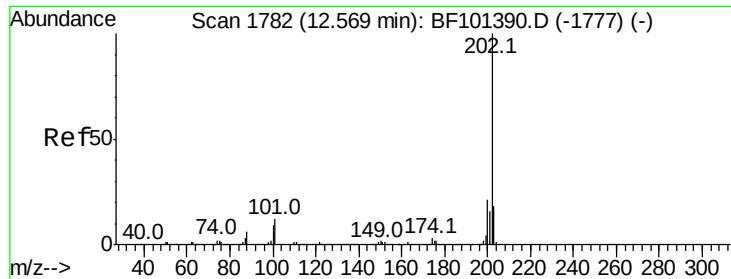
Sohil
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#72
 Carbazole
 Concen: 4.771 ng
 RT: 11.56 min Scan# 1611
 Delta R.T. -0.00 min
 Lab File: BF101603.D
 Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.7	17.6	26.4
139	13.8	10.9	16.3





#74

Fluoranthene

Concen: 159.117 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.02 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

Instrument :

BNA_F

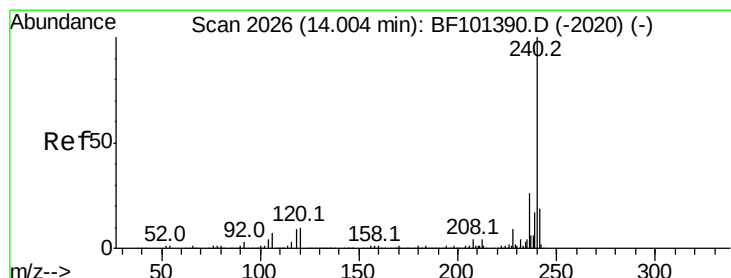
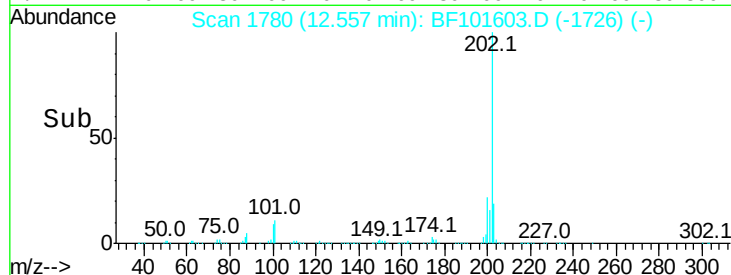
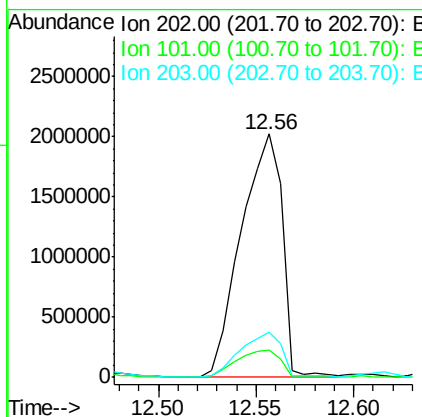
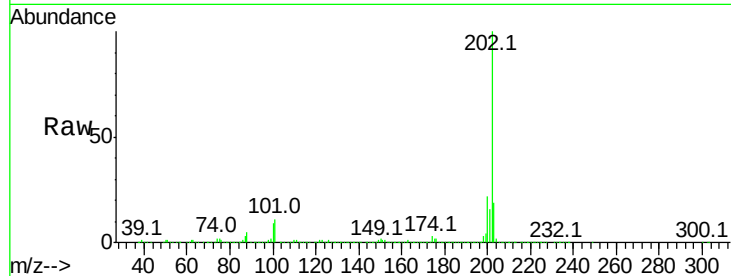
ClientSampleId :

PL-01-121917-A

Tot Ion:	202	Resp:	2934060
Ion Ratio	Lower	Upper	
202	100		
101	11.1	0.0	34.1
203	18.6	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

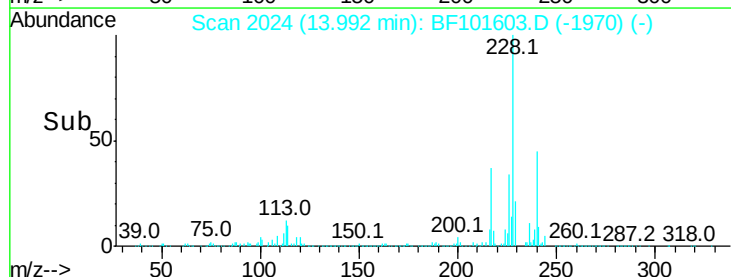
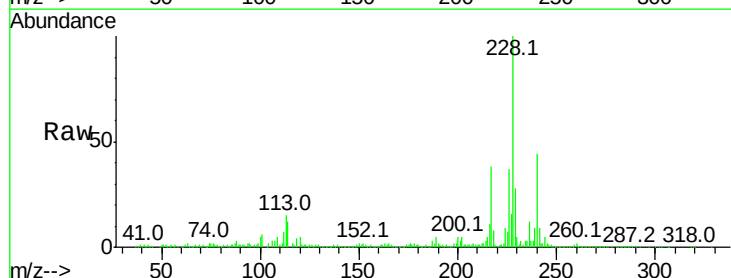
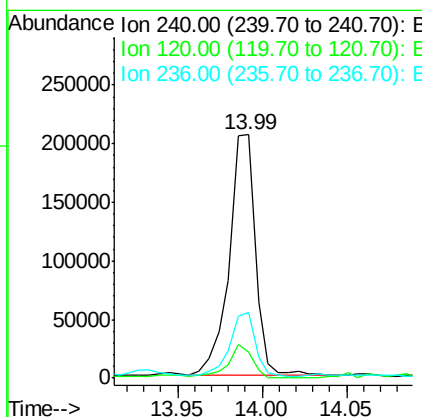
RT: 13.99 min Scan# 2024

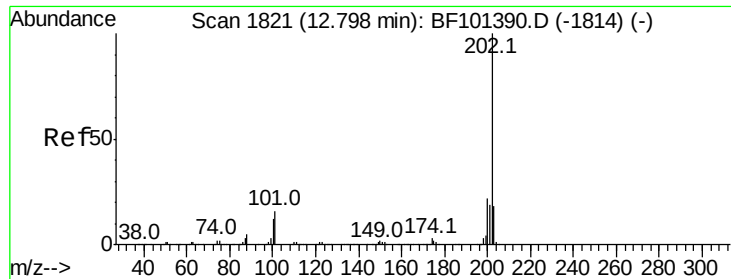
Delta R.T. 0.02 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

Tgt Ion:	240	Resp:	221685
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.5	14.3
236	26.8	20.7	31.1





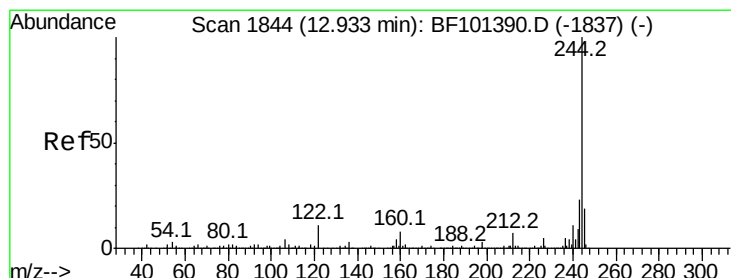
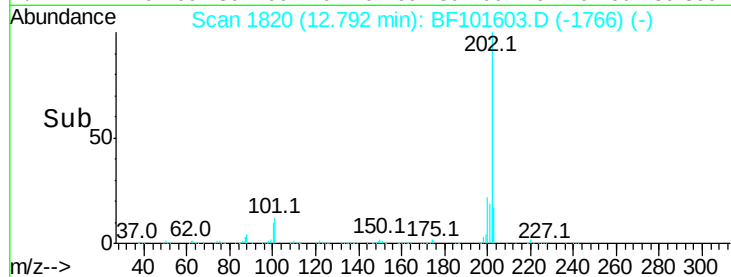
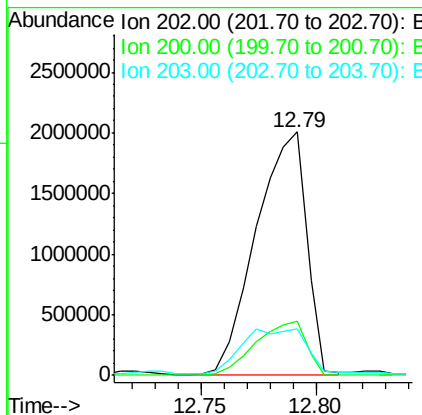
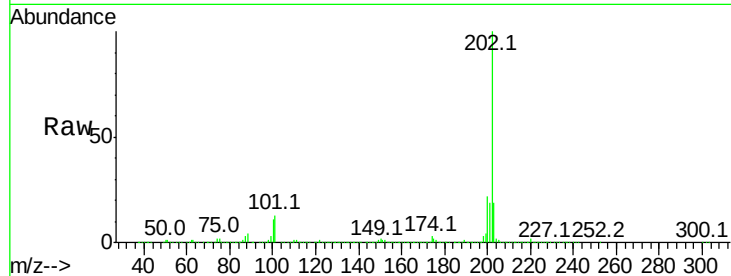
#77
Pvrene
Concen: 182.207 ng
RT: 12.79 min Scan# 1820
Delta R.T. 0.02 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion:202 Resp: 3031455
Ion Ratio Lower Upper
202 100
200 22.5 17.4 26.2
203 18.9 14.3 21.5

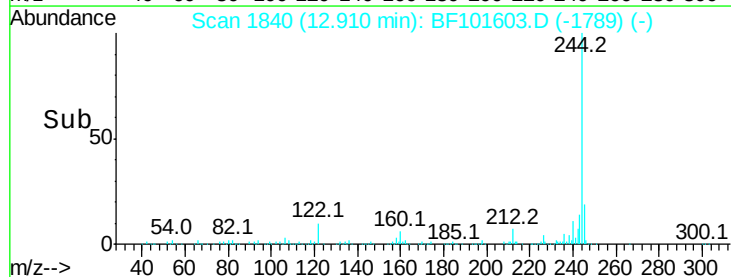
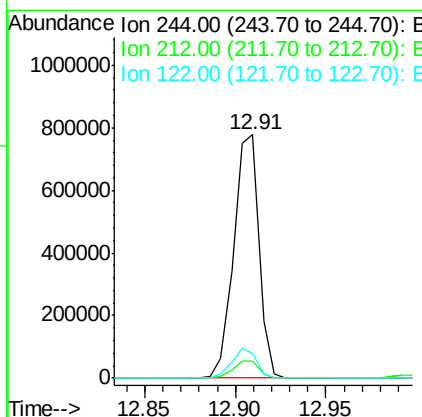
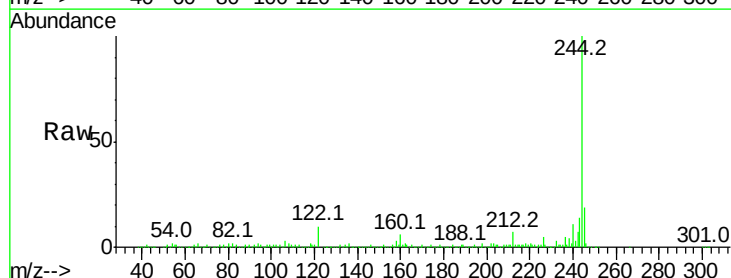
Manual Integrations
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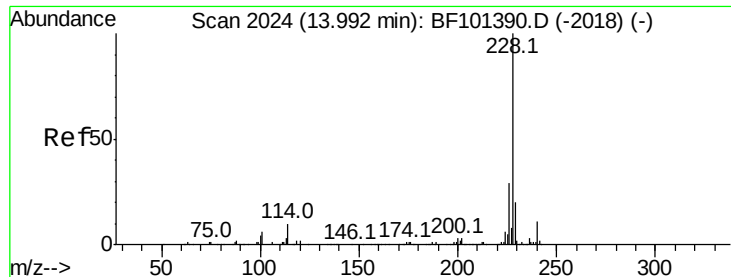
Sohil
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#78
Terphenyl-d14
Concen: 81.947 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.00 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion:244 Resp: 753551
Ion Ratio Lower Upper
244 100
212 6.8 5.4 8.0
122 10.2 11.0 16.4#





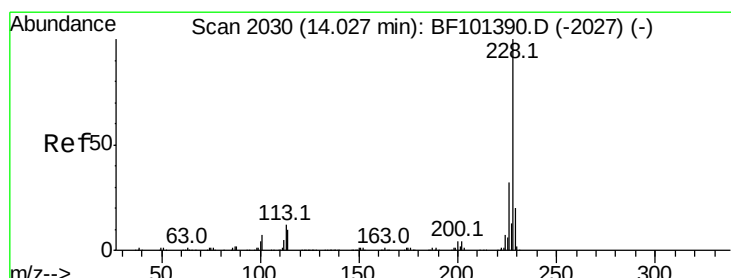
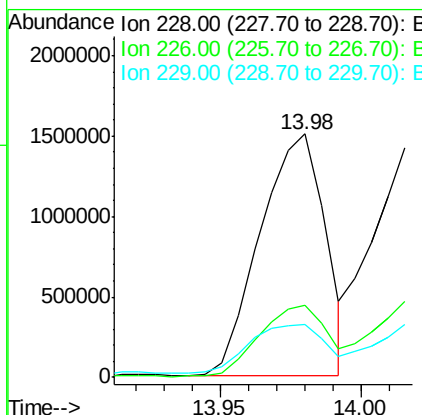
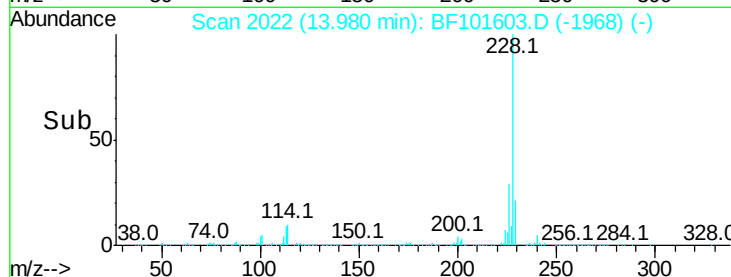
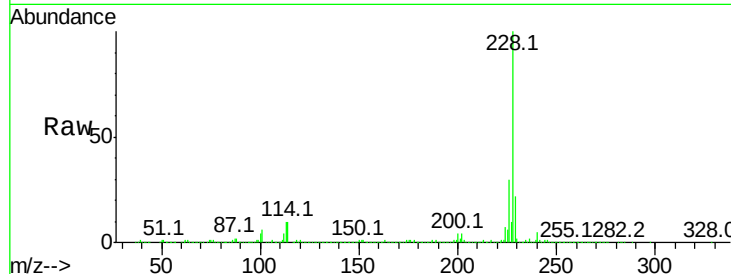
#80
Benzo(a)anthracene
Concen: 164.453 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.02 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion:228 Resp: 2407300
Ion Ratio Lower Upper
228 100
226 29.8 22.6 33.8
229 21.6 15.8 23.6

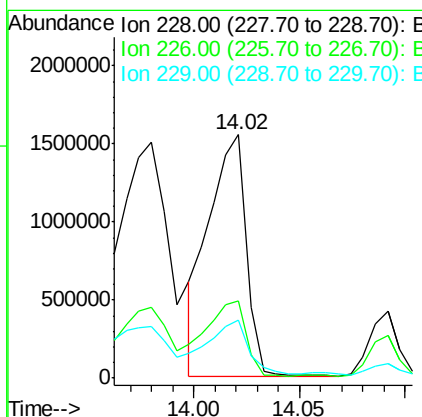
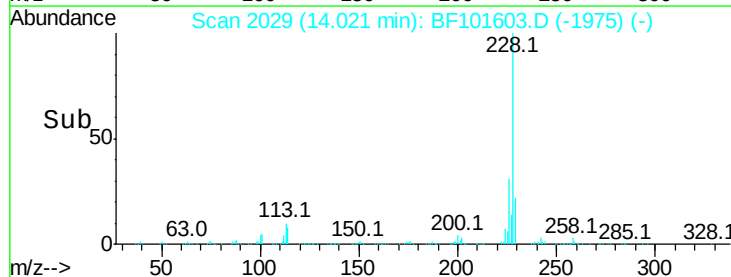
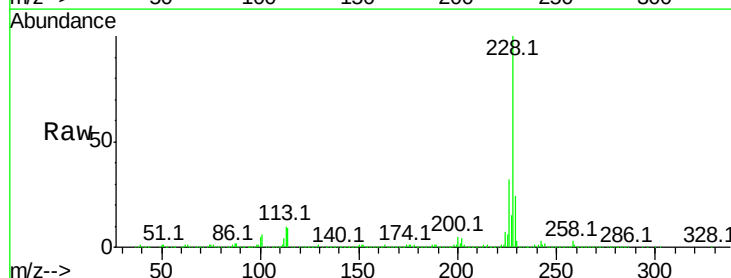
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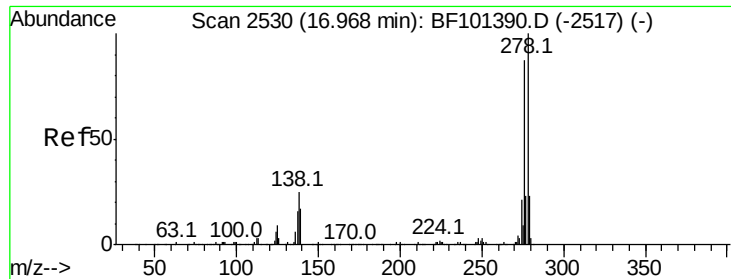
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#82
Chrysene
Concen: 138.731 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.02 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion:228 Resp: 1917421
Ion Ratio Lower Upper
228 100
226 31.9 25.0 37.6
229 23.7 16.2 24.4





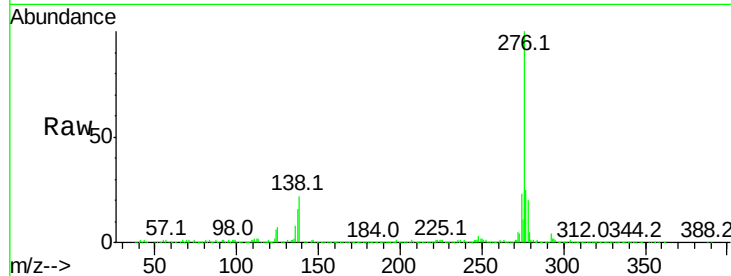
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 117.532 ng
 RT: 16.96 min Scan# 2529
 Delta R.T. 0.05 min
 Lab File: BF101603.D
 Acq: 21 Dec 2017 13:35

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-A

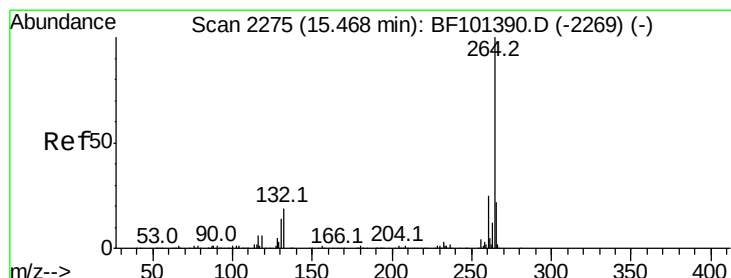
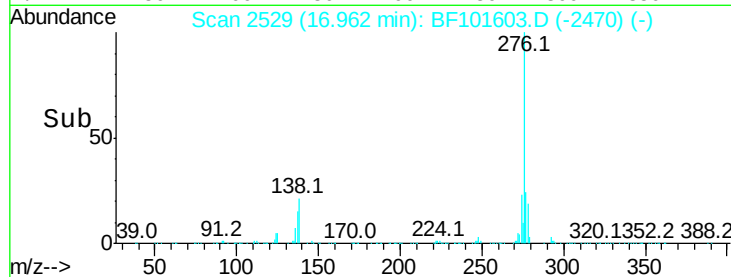
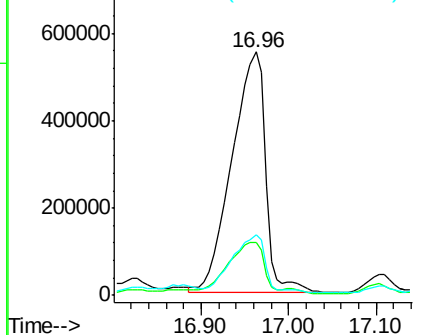
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.0	25.0	37.6#
277	23.9	20.1	30.1

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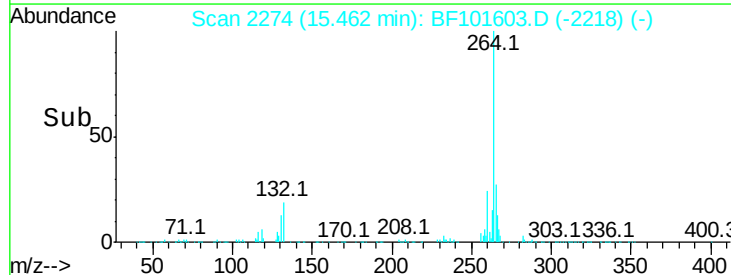
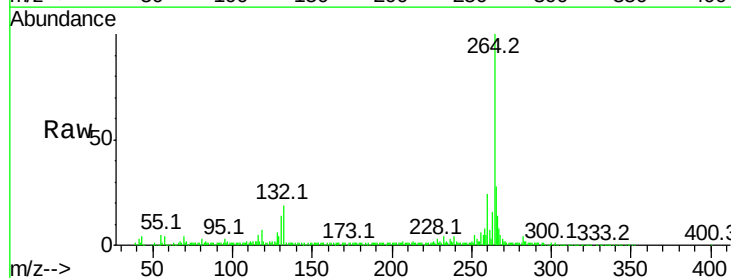
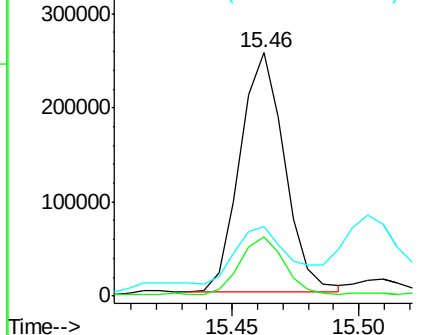
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

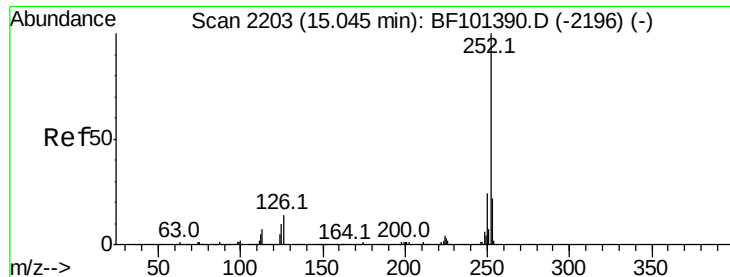


#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. 0.03 min
 Lab File: BF101603.D
 Acq: 21 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	28.5	17.5	26.3#

Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 176.414 ng m

RT: 15.05 min Scan# 2204

Delta R.T. 0.04 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-A

Tot Ion:252 Resp: 3373833

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.6

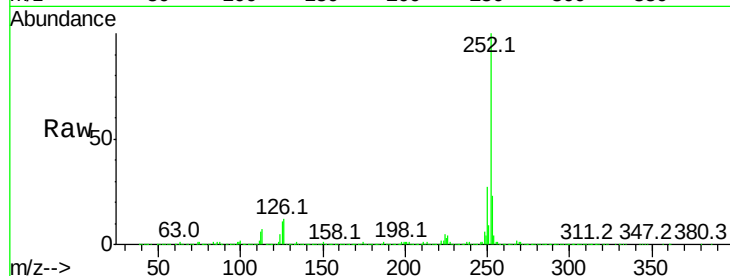
125 10.8 9.0 13.6

Manual Integrations

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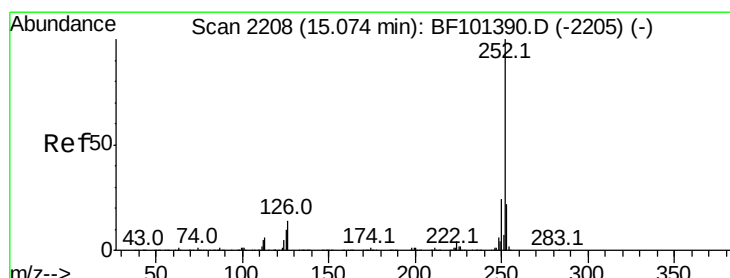
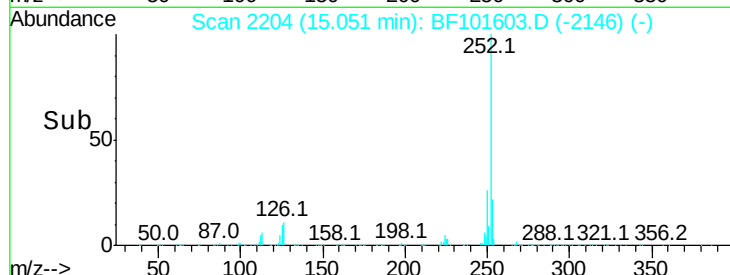
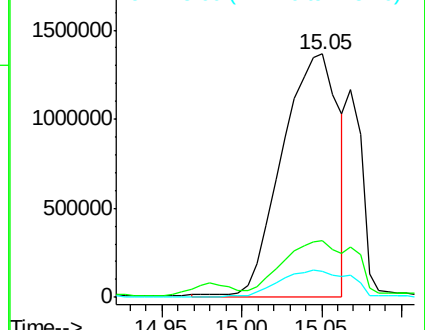
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 44.234 ng m

RT: 15.07 min Scan# 2207

Delta R.T. 0.03 min

Lab File: BF101603.D

Acq: 21 Dec 2017 13:35

Tgt Ion:252 Resp: 822496

Ion Ratio Lower Upper

252 100

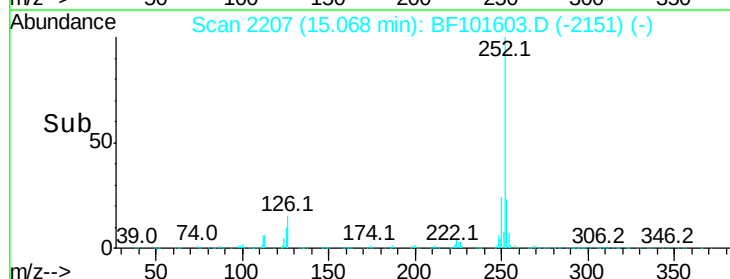
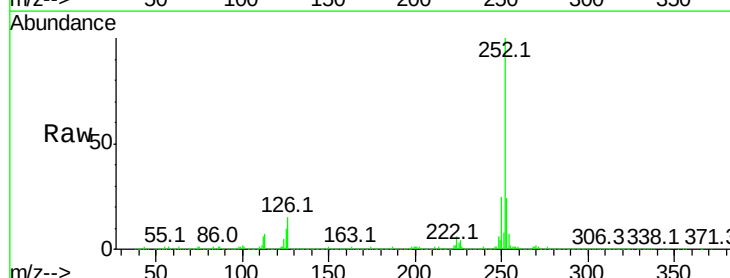
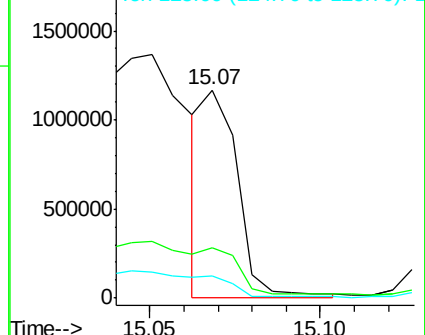
253 24.3 17.9 26.9

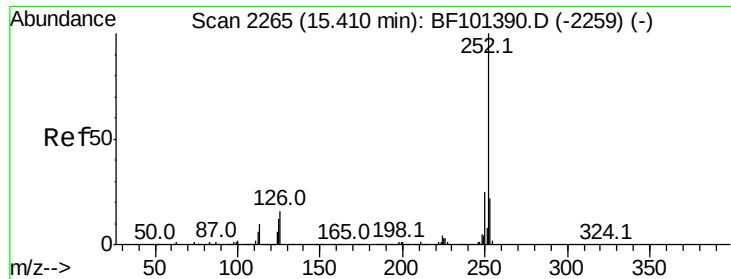
125 10.4 10.2 15.2

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





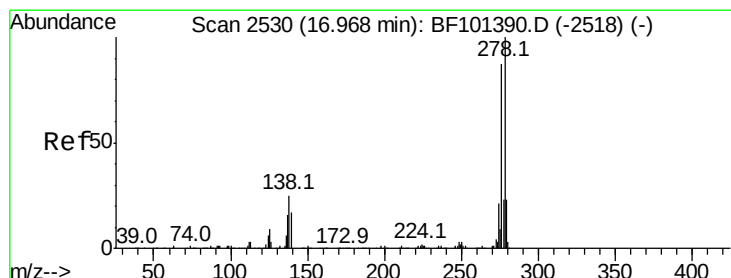
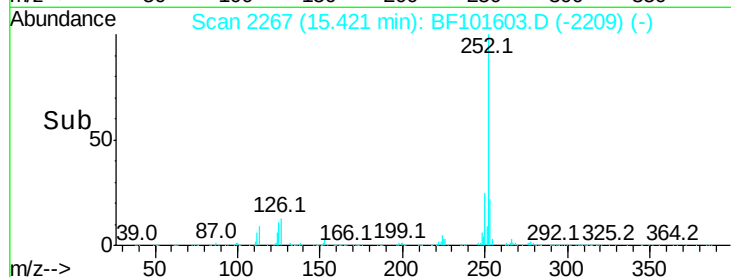
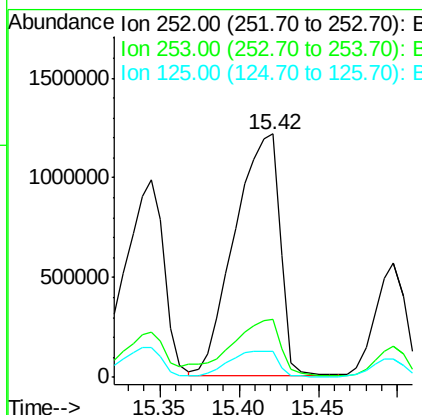
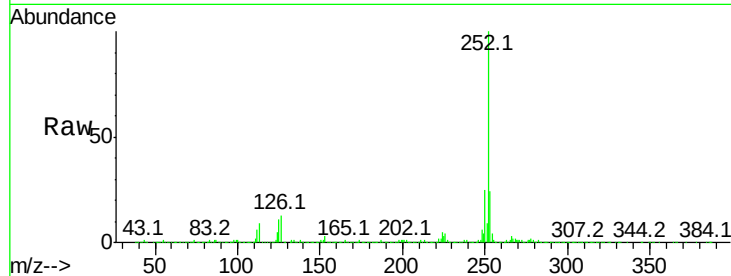
#89
Benzo(a)pyrene
Concen: 136.813 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.04 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-A

Tot Ion:252 Resp: 2412027
Ion Ratio Lower Upper
252 100
253 23.8 17.1 25.7
125 10.8 9.8 14.6

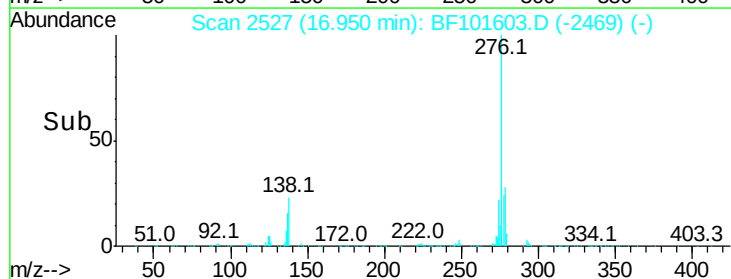
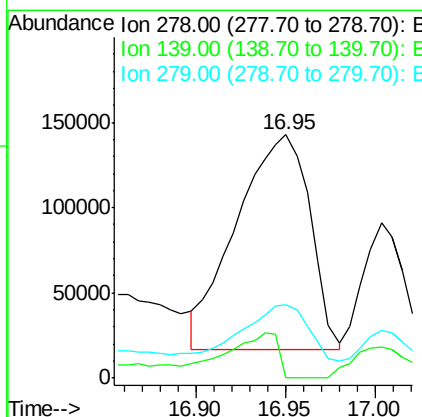
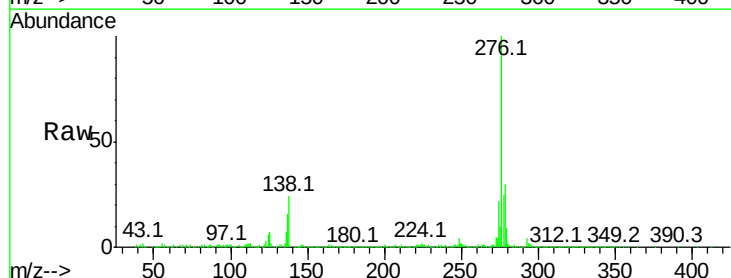
Manual Integrations
APPROVED

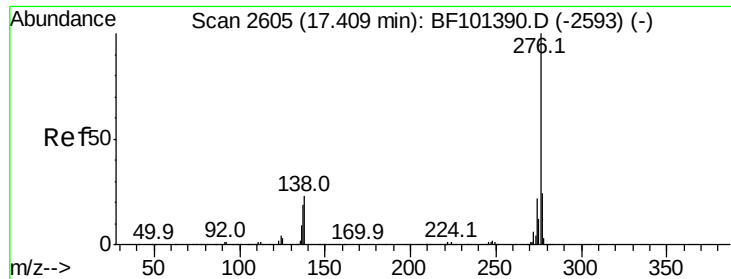
Sohil
12/22/2017 12:41:42 PM



#90
Dibenzo(a,h)anthracene
Concen: 23.608 ng m
RT: 16.95 min Scan# 2527
Delta R.T. 0.04 min
Lab File: BF101603.D
Acq: 21 Dec 2017 13:35

Tgt Ion:278 Resp: 357361
Ion Ratio Lower Upper
278 100
139 0.0 15.9 23.9#
279 30.2 19.0 28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 86.729 ng
 RT: 17.42 min Scan# 2606
 Delta R.T. 0.06 min
 Lab File: BF101603.D
 Acq: 21 Dec 2017 13:35

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-A

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	17.9	26.9
138	24.1	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/22/2017 12:41:42 PM

