

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062518\
 Data File : BF106789.D
 Acq On : 25 Jun 2018 23:14
 Operator : JU/SJ
 Sample : J3626-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A-1

Manual Integrations
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Sohil
 6/27/2018 10:55:49 AM

Quant Time: Jun 26 09:03:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 25 18:50:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	47716	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	171260	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	76392	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	140875	20.00	ng	0.00
75) Chrysene-d12	14.15	240	122468	20.00	ng	-0.01
86) Perylene-d12	15.69	264	92313	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	252400	89.57	ng	0.00
7) Phenol-d6	6.61	99	344778	97.98	ng	0.00
23) Nitrobenzene-d5	7.52	82	209704	68.05	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	69568	78.57	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	383768	85.04	ng	0.00
78) Terphenyl-d14	13.08	244	420568	83.18	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.62	94	10467	2.606	ng	97
31) Naphthalene	8.27	128	65840	8.223	ng	99
37) 2-Methylnaphthalene	8.96	142	60950	11.484	ng	95
45) 1,1'-Biphenyl	9.42	154	29297	4.812	ng	97
49) Dimethylphthalate	9.71	163	47592	8.306	ng	# 98
51) Acenaphthene	10.04	154	127184	26.695	ng	98
54) Dibenzofuran	10.21	168	156182	23.940	ng	96
57) Fluorene	10.55	166	133724	25.831	ng	99
70) Phenanthrene	11.53	178	732548	107.812	ng	99
71) Anthracene	11.58	178	130185	18.771	ng	99
72) Carbazole	11.73	167	46068	7.095	ng	97
74) Fluoranthene	12.72	202	580614	77.528	ng	93
77) Pyrene	12.95	202	432059	53.500	ng	99
80) Benzo(a)anthracene	14.14	228	113437	15.198	ng	99
82) Chrysene	14.18	228	103103	15.015	ng	97
85) Indeno(1,2,3-cd)pyrene	17.26	276	14644	2.513	ng	# 86
87) Benzo(b)fluoranthene	15.23	252	68308m	11.912	ng	
88) Benzo(k)fluoranthene	15.26	252	16497m	3.021	ng	
89) Benzo(a)pyrene	15.62	252	31149	6.110	ng	# 92
91) Benzo(a,h,i)perylene	17.74	276	12640	2.993	ng	93

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

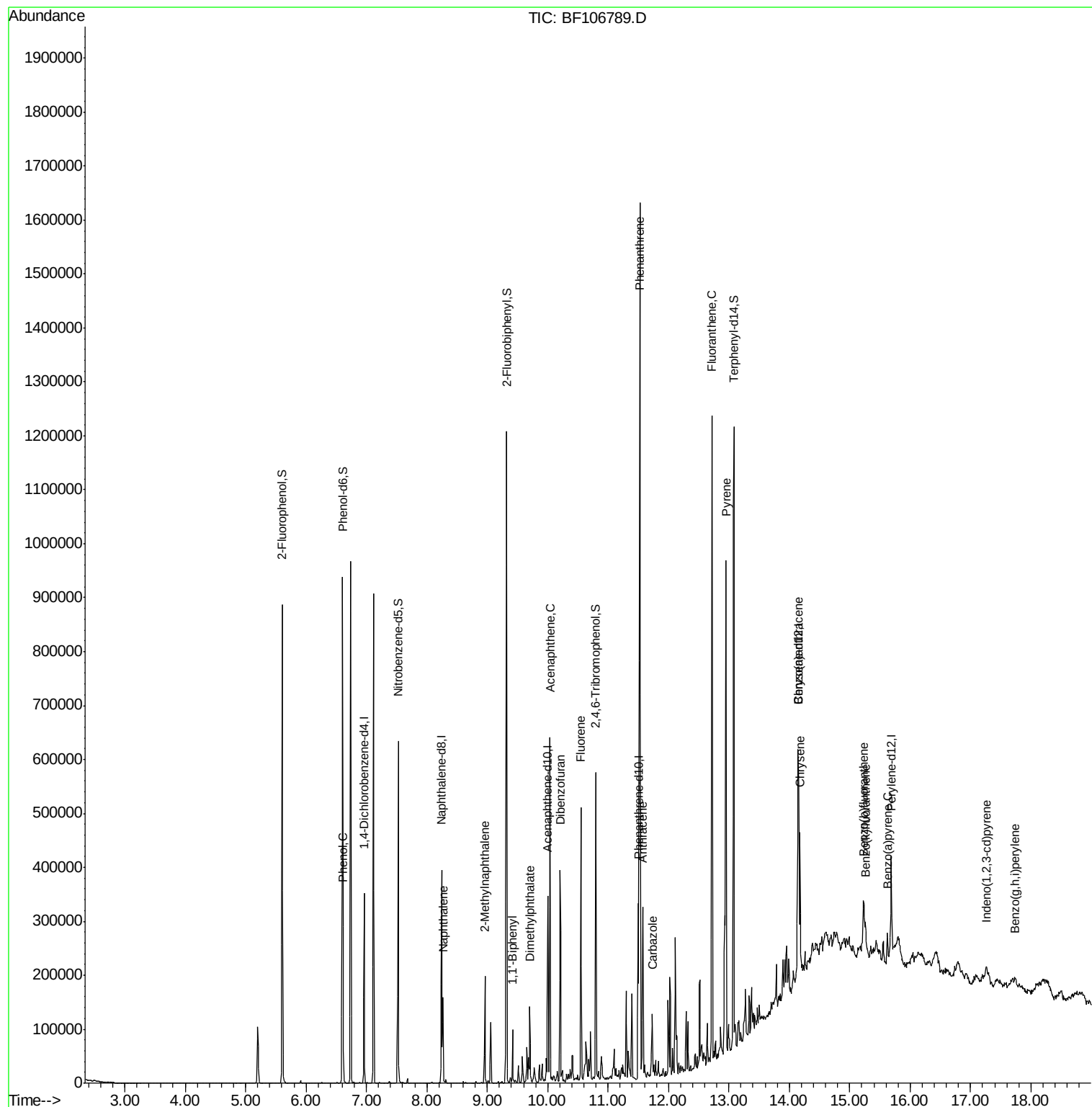
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062518\
Data File : BF106789.D
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ALS Vial : 19 Sample Multiplier: 1

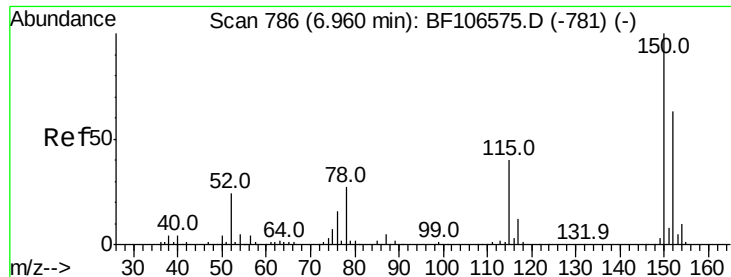
Instrument :
BNA_F
ClientSampleId :
A-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

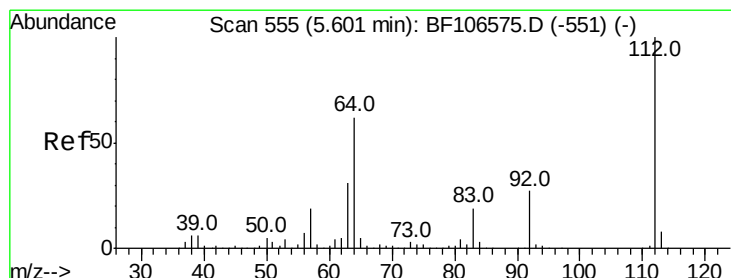
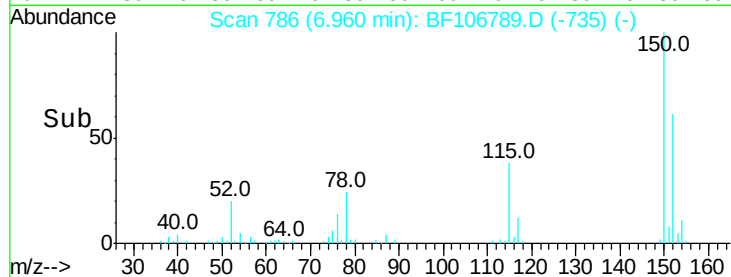
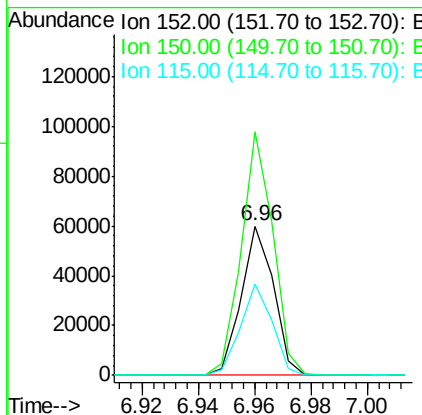
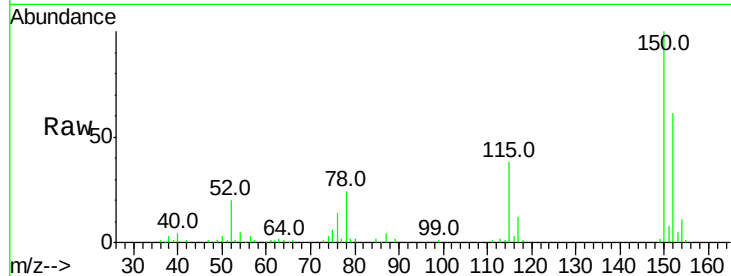
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampleId :
A-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.9	124.6	186.8
115	61.4	50.1	75.1

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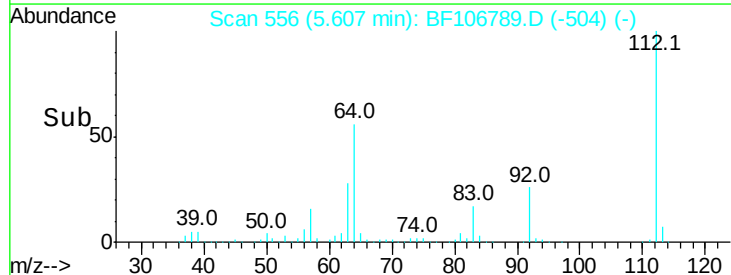
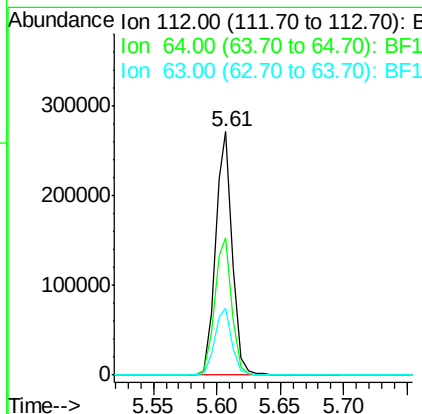
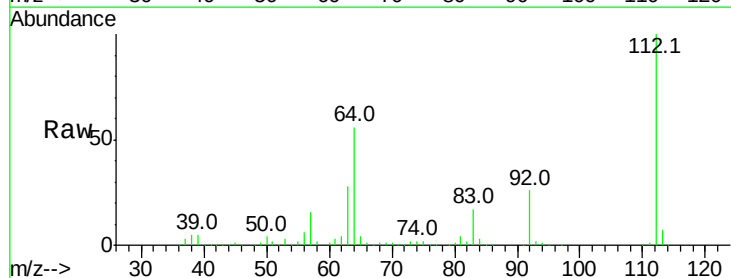
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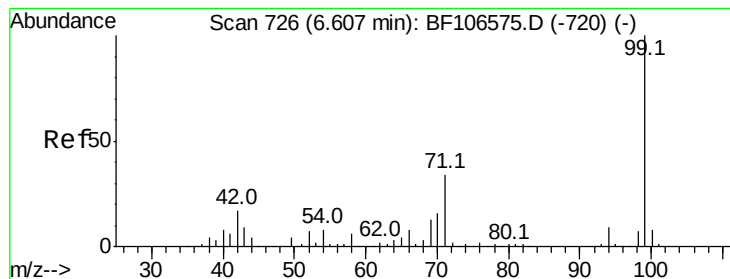


#5

2-Fluorophenol
Concen: 89.570 ng
RT: 5.61 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	47.9	71.9
63	27.6	23.7	35.5





#7

Phenol-d6

Concen: 97.976 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Instrument :

BNA_F

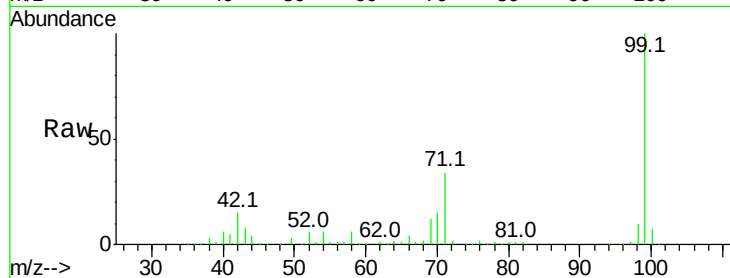
ClientSampled :

A-1

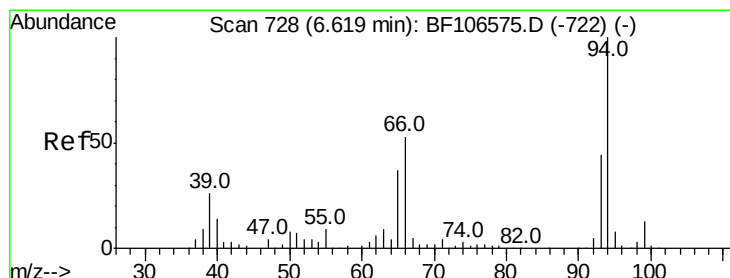
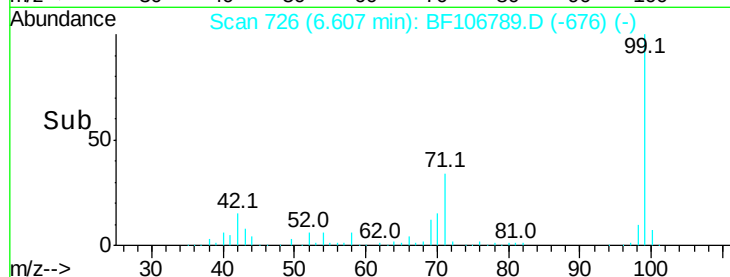
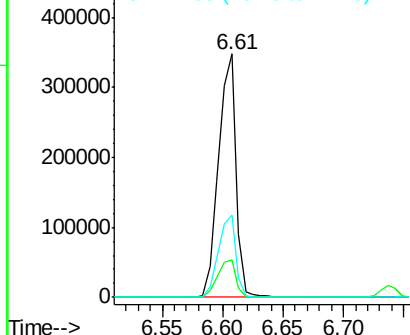
Tot Ion:	99	Resp:	344778
Ion Ratio	Lower	Upper	
99	100		
42	15.5	14.5	21.7
71	33.6	25.4	38.0

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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: 2.606 ng

RT: 6.62 min Scan# 728

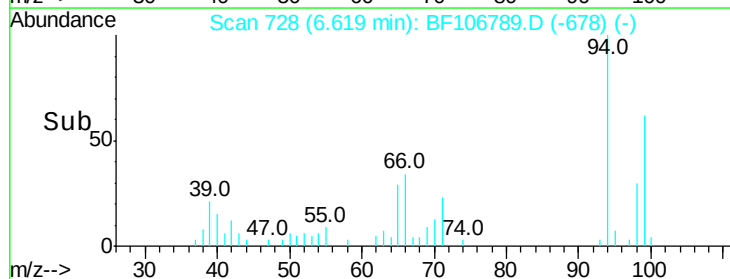
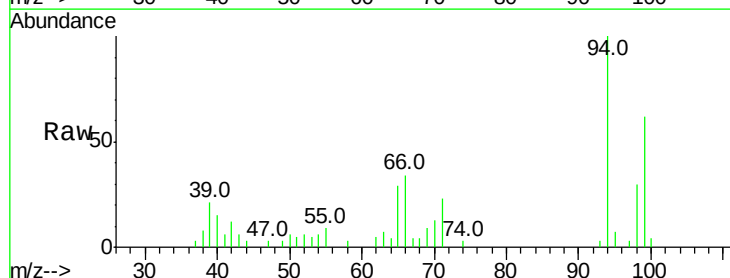
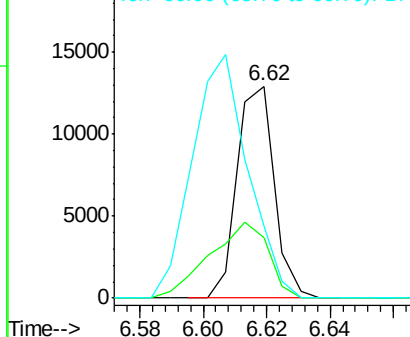
Delta R.T. -0.01 min

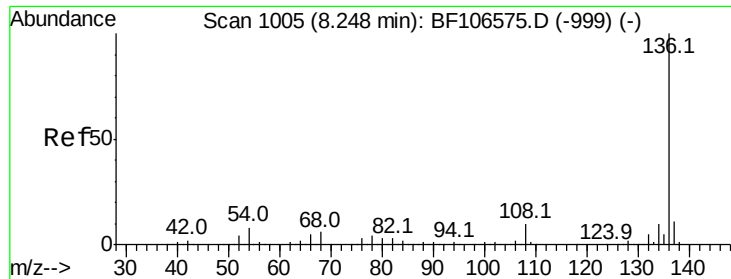
Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Tgt Ion:	94	Resp:	10467
Ion Ratio	Lower	Upper	
94	100		
65	28.6	7.9	47.9
66	33.9	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





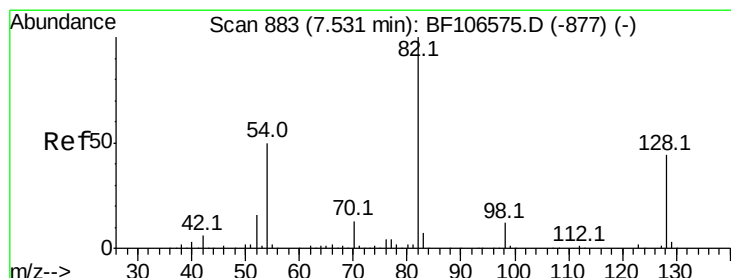
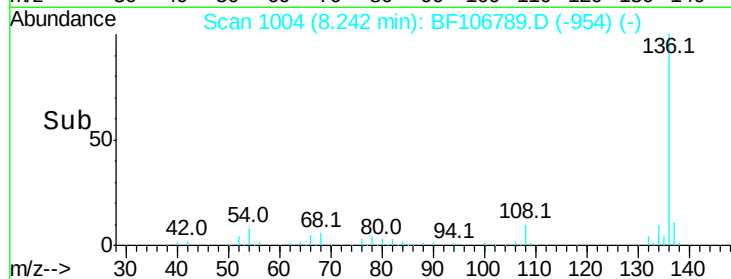
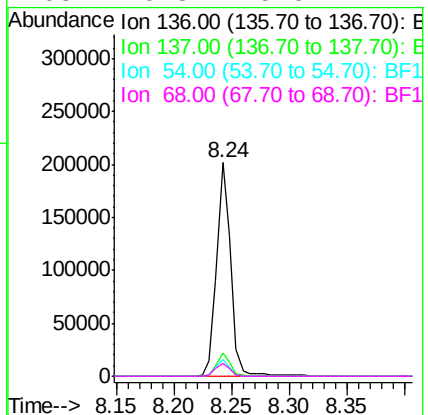
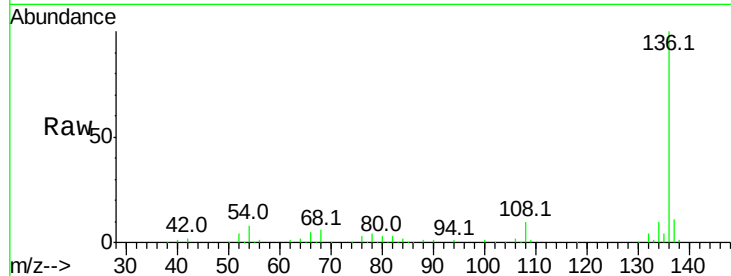
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampleId :
A-1

Tot Ion	136	Resp	171260
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	7.9	6.6	9.8
68	6.3	5.0	7.4

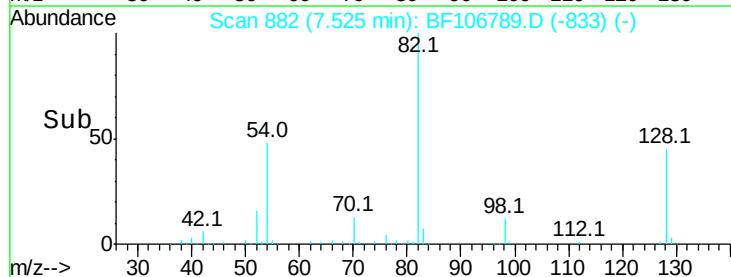
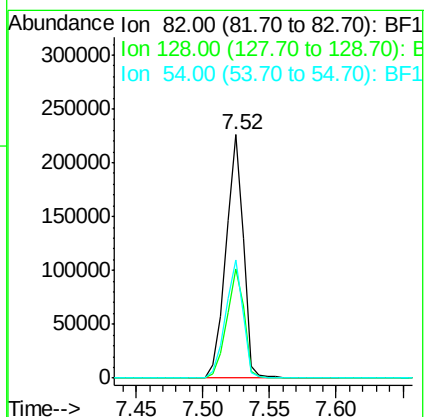
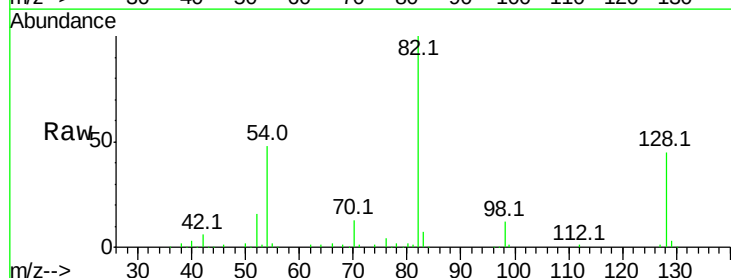
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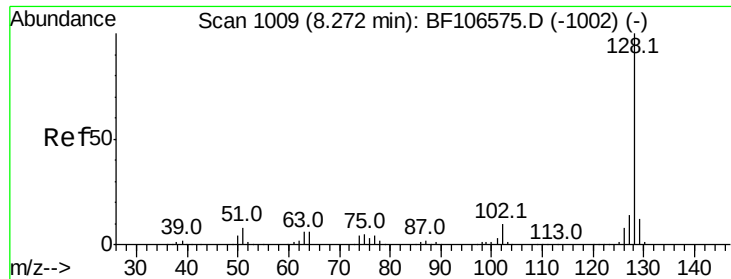
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#23
Nitrobenzene-d5
Concen: 68.049 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	82	Resp	209704
Ion Ratio	Lower	Upper	
82	100		
128	44.6	36.1	54.1
54	48.4	41.4	62.2





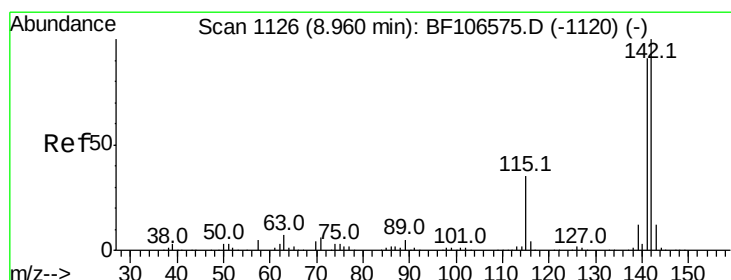
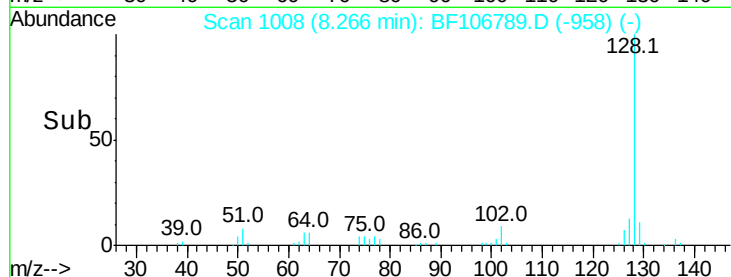
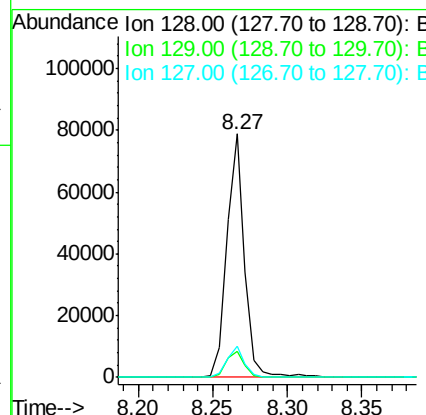
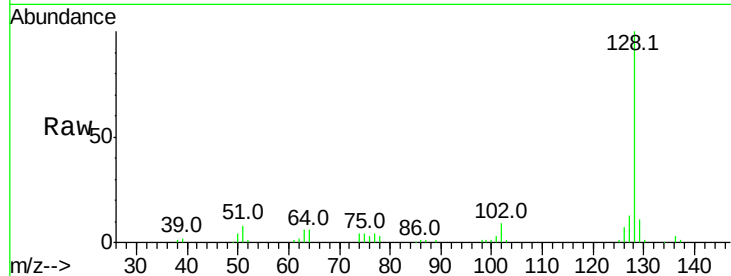
#31
Naphthalene
Concen: 8.223 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampleId :
A-1

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.8	10.9	16.3

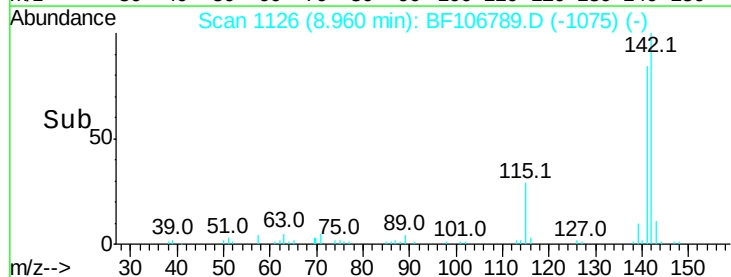
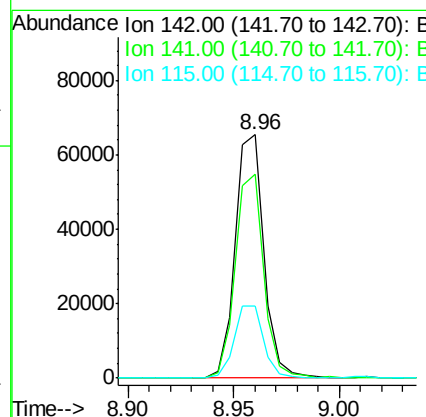
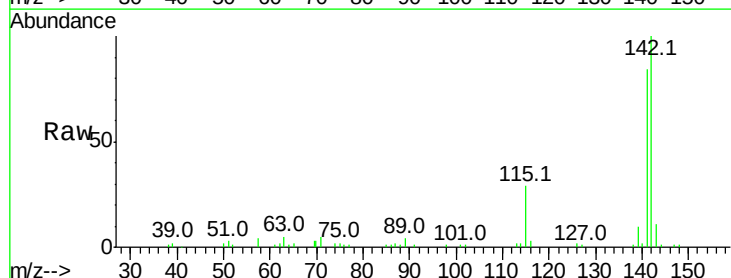
Manual Integrations
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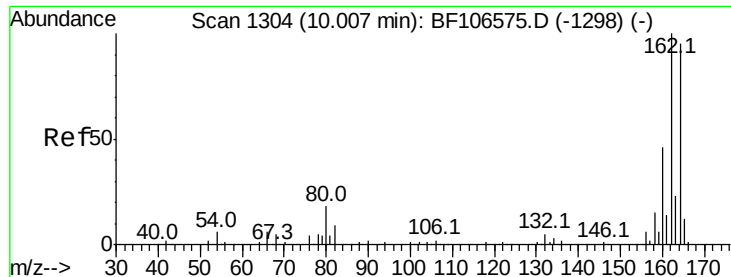
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#37
2-Methylnaphthalene
Concen: 11.484 ng
RT: 8.96 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	70.8	106.2
115	29.5	26.1	39.1





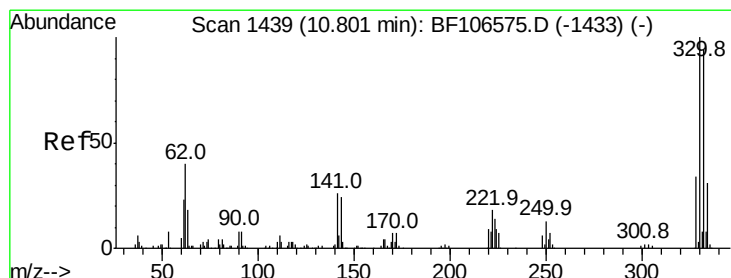
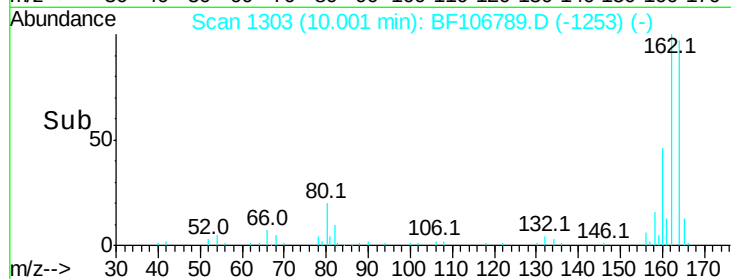
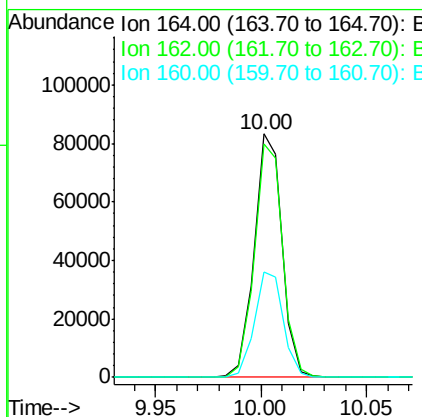
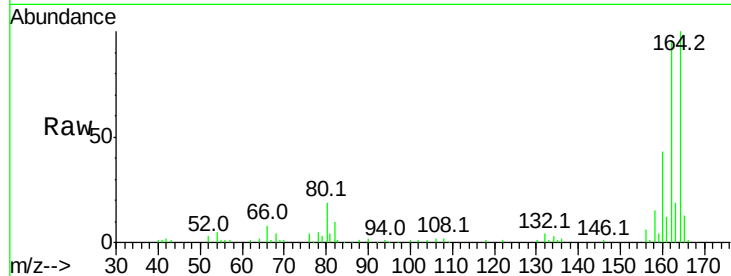
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF106789.D
 Acq: 25 Jun 2018 23:14

Instrument :
 BNA_F
 ClientSampled :
 A-1

Tot Ion	Ratio	Lower	Upper
164	100		
162	95.6	86.1	129.1
160	43.4	38.3	57.5

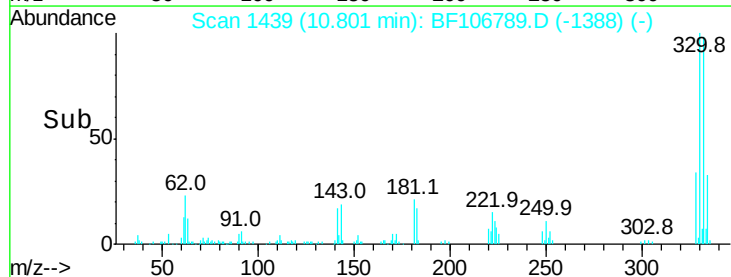
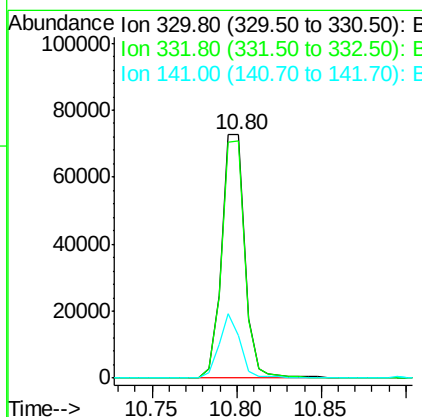
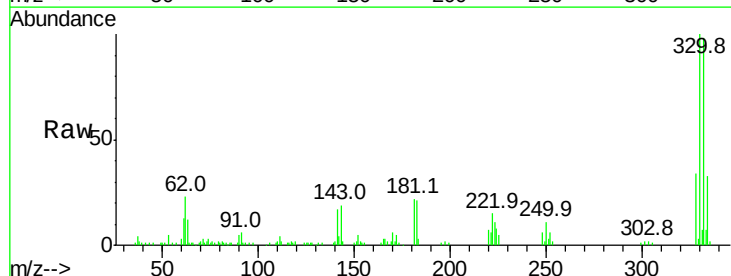
Manual Integrations
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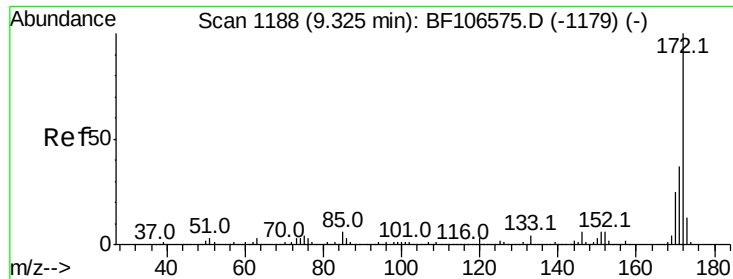
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#41
 2,4,6-Tribromophenol
 Concen: 78.572 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: BF106789.D
 Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.0	115.6
141	24.0	29.9	44.9#





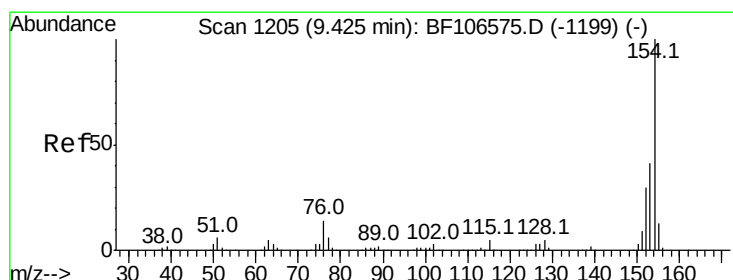
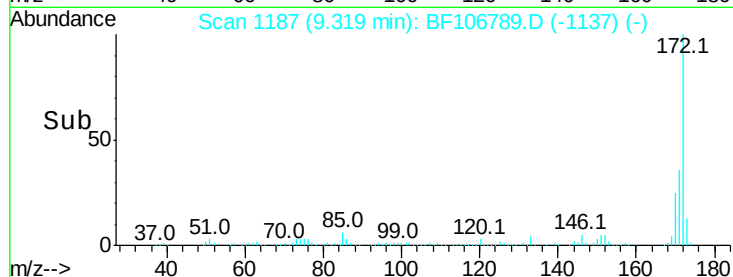
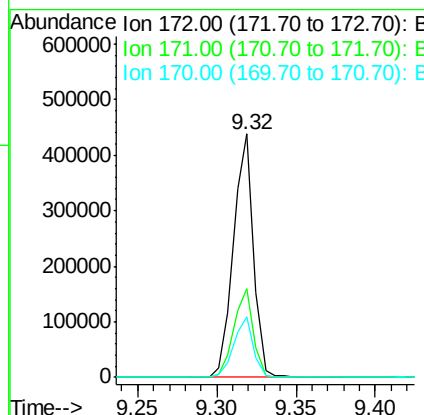
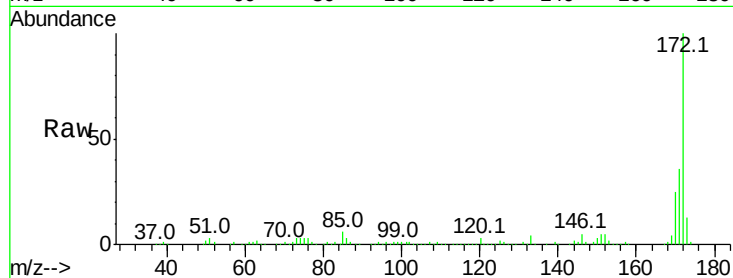
#44
2-Fluorobiphenyl
Concen: 85.039 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.2	29.7	44.5	
170	24.8	19.6	29.4	

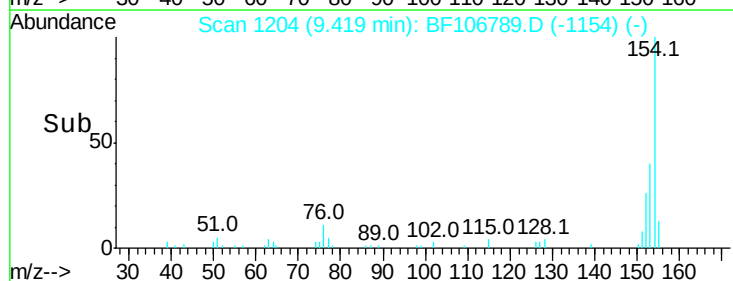
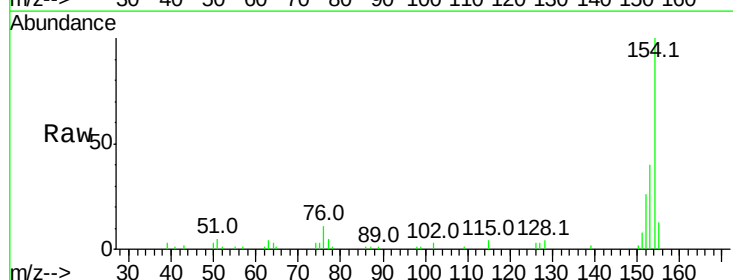
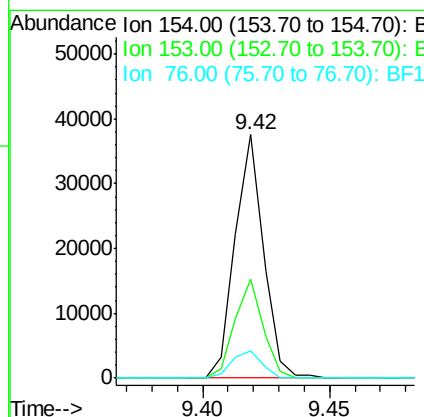
Manual Integrations
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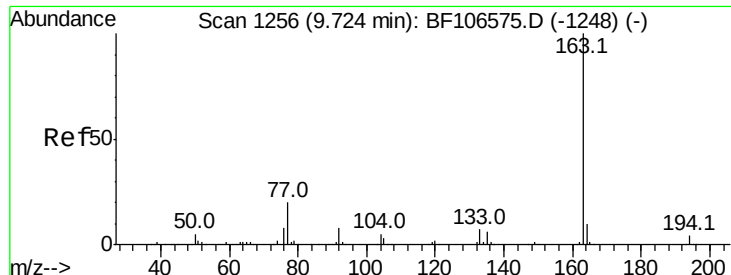
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#45
1,1'-Biphenyl
Concen: 4.812 ng
RT: 9.42 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.5	21.3	61.3	
76	11.1	0.0	34.0	





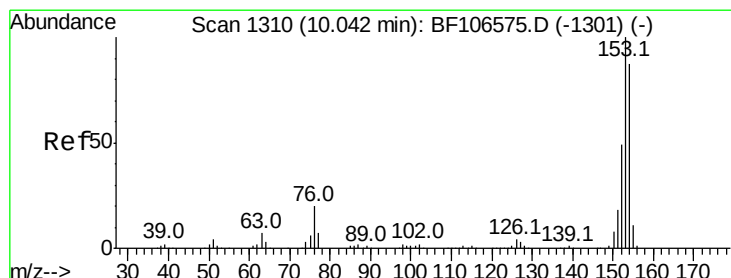
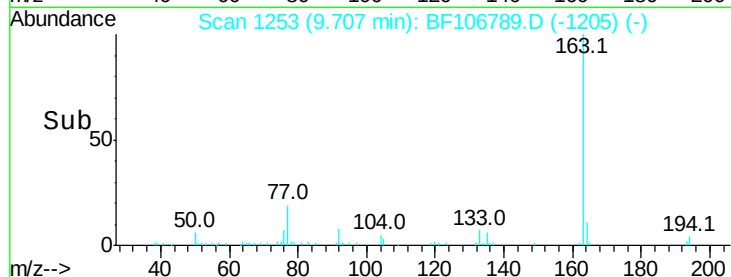
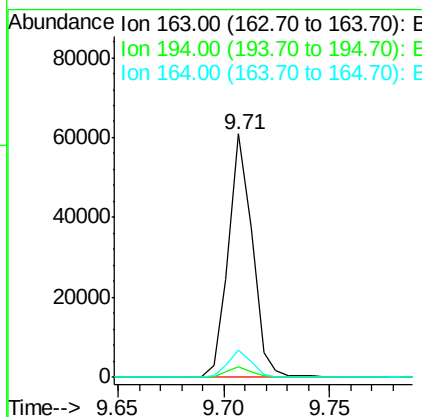
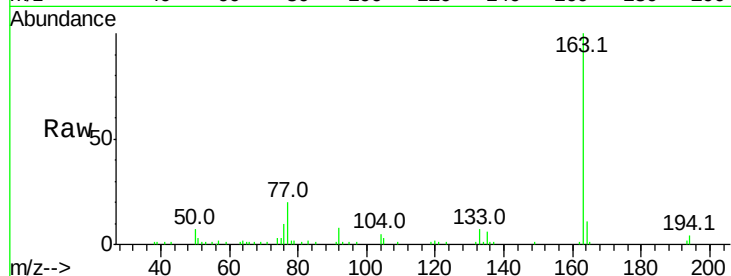
#49
Dimethylphthalate
Concen: 8.306 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.02 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampleId :
A-1

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.4	2.7	4.1#
164	11.0	8.2	12.2

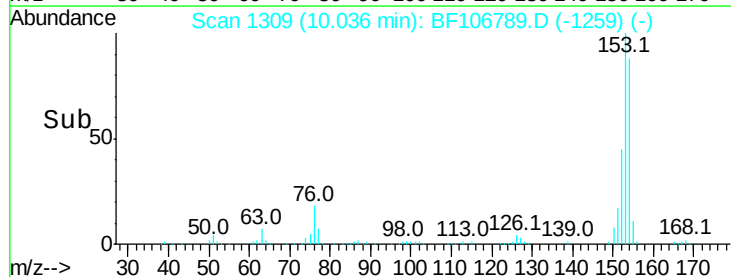
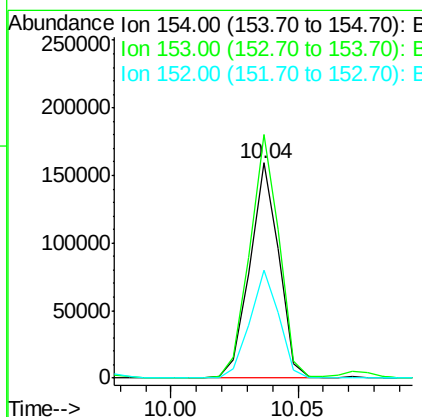
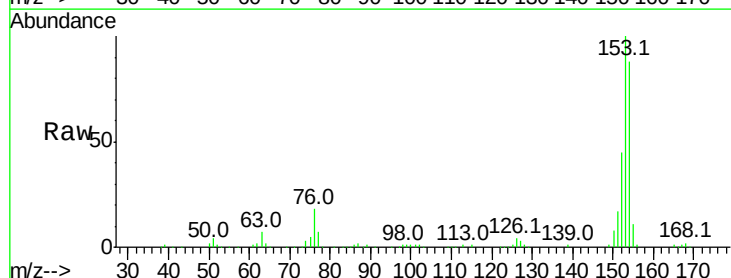
Manual Integrations
APPROVED

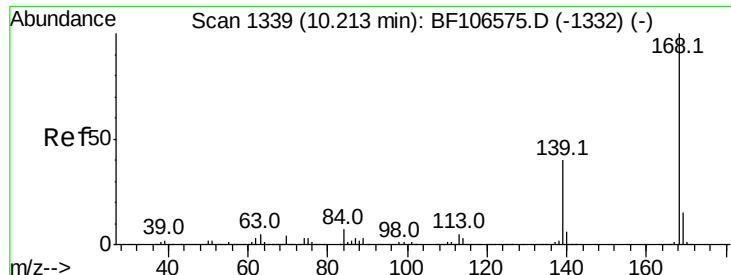
Sohil
6/27/2018 10:55:49 AM



#51
Acenaphthene
Concen: 26.695 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.2	136.8
152	50.4	43.8	65.8





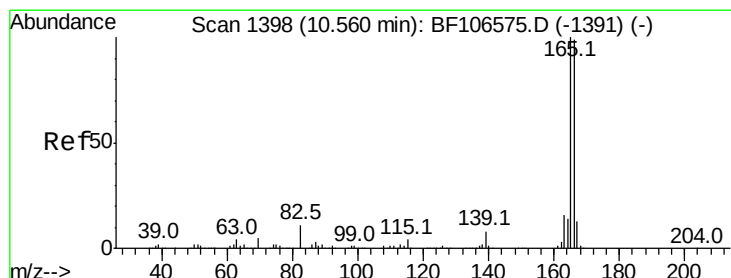
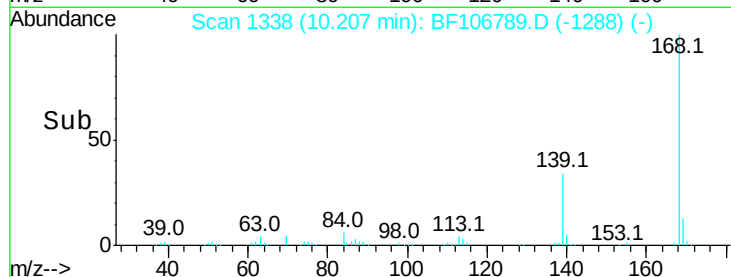
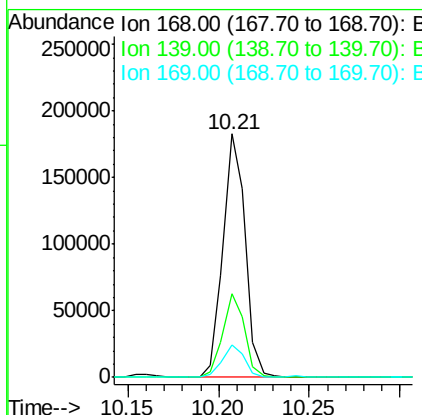
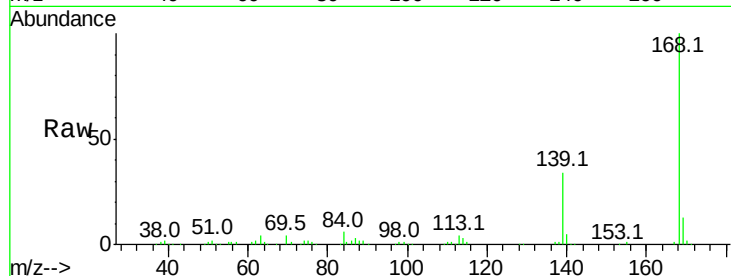
#54
Dibenzenofuran
Concen: 23.940 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampled :
A-1

Tot Ion	Ratio	Resp	Lower	Upper
168	100	156182		
139	34.3		30.1	45.1
169	13.4		10.9	16.3

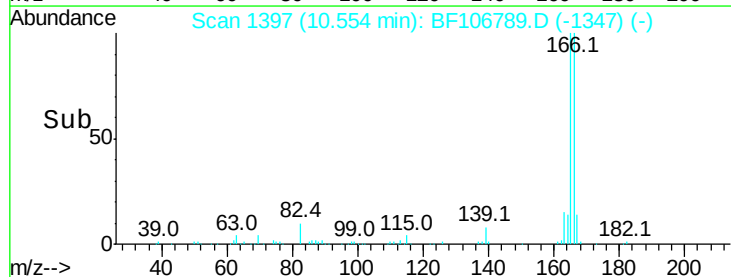
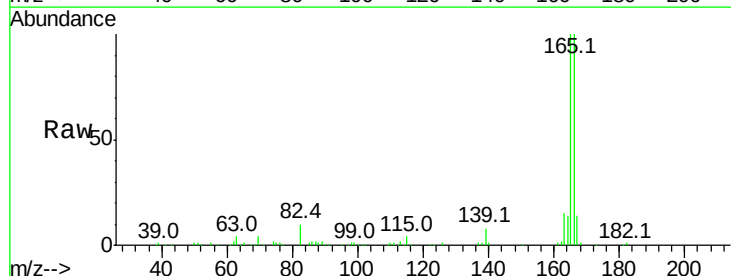
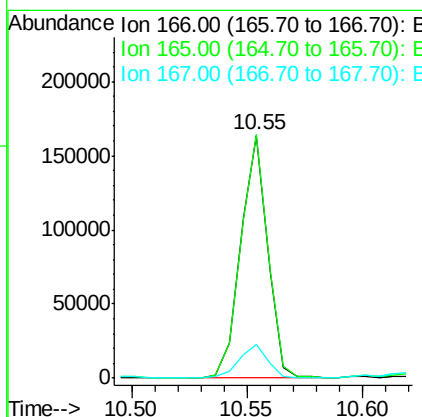
Manual Integrations
APPROVED

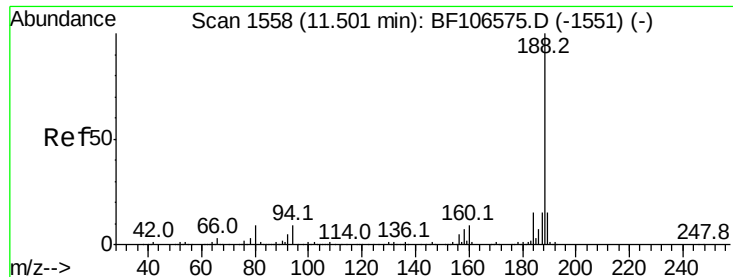
Sohil
6/27/2018 10:55:49 AM



#57
Fluorene
Concen: 25.831 ng
RT: 10.55 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	133724		
165	100.4		79.8	119.8
167	13.8		10.6	16.0





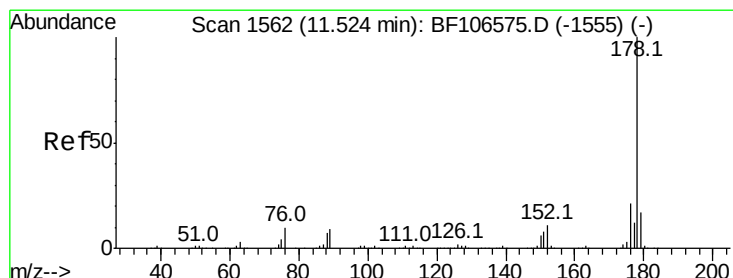
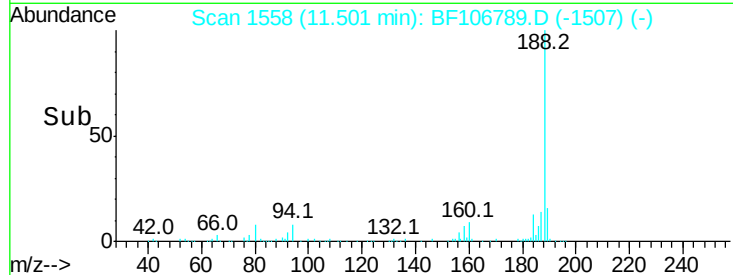
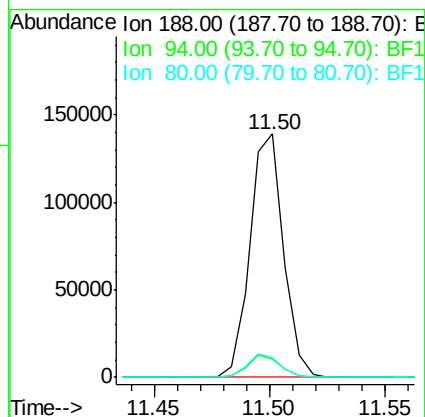
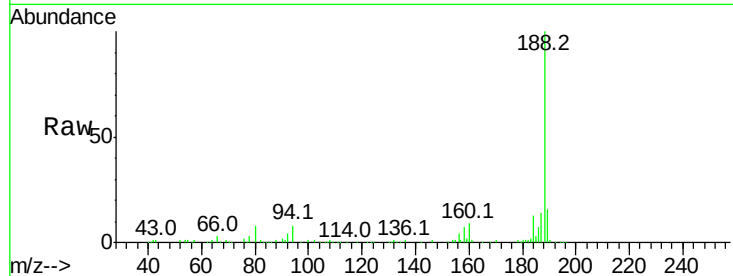
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. 0.00 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampled :
A-1

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.7	8.5	12.7#
80	8.2	9.2	13.8#

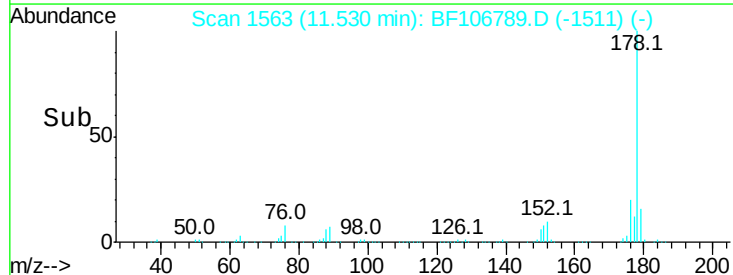
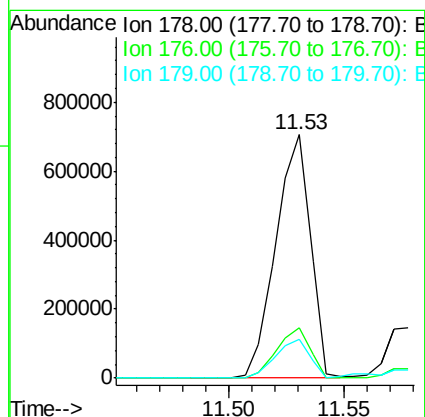
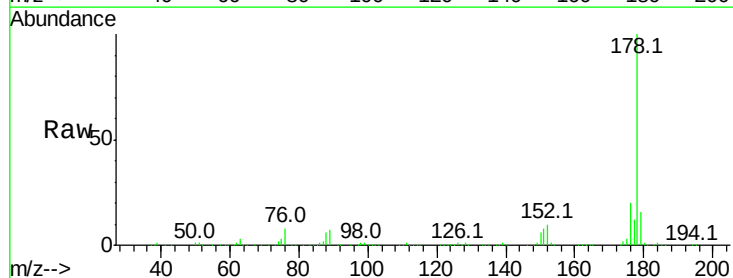
Manual Integrations
APPROVED

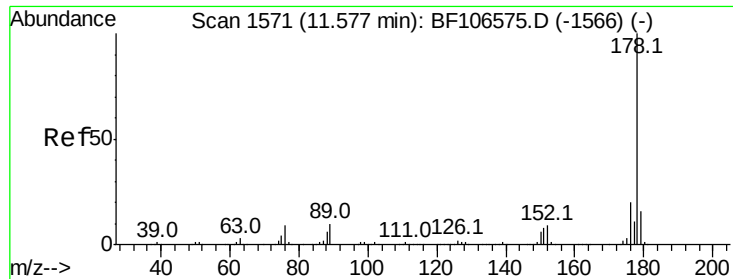
Sohil
6/27/2018 10:55:49 AM



#70
Phenanthrene
Concen: 107.812 ng
RT: 11.53 min Scan# 1563
Delta R.T. 0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.4	15.8	23.8
179	15.8	13.0	19.6





#71

Anthracene

Concen: 18.771 ng

RT: 11.58 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Instrument :

BNA_F

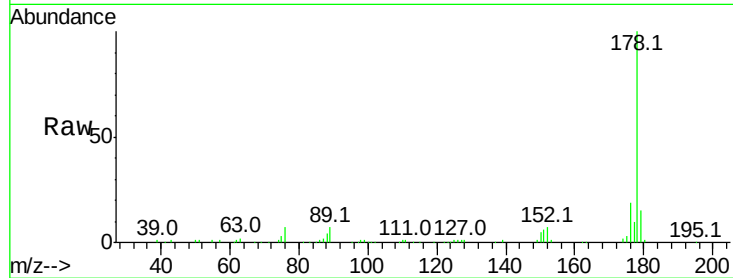
ClientSampled :

A-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.3	12.6	19.0

Manual Integrations
APPROVED

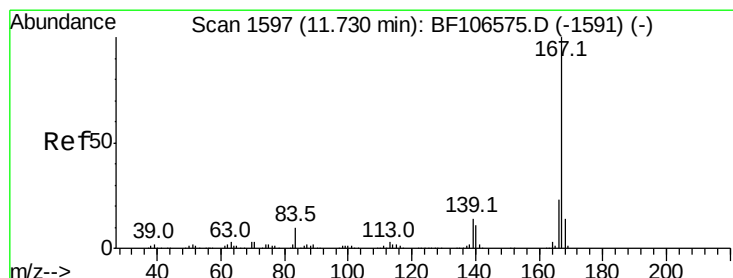
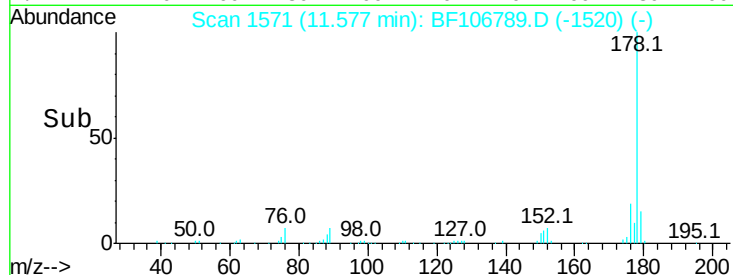
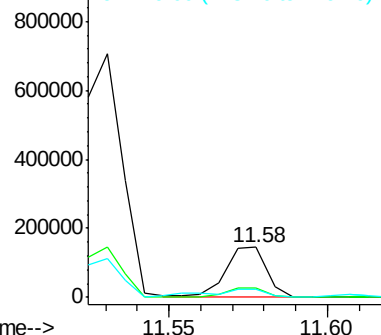
Sohil
6/27/2018 10:55:49 AM



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



#72

Carbazole

Concen: 7.095 ng

RT: 11.73 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF106789.D

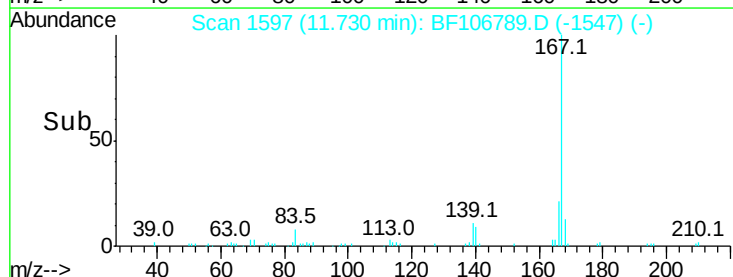
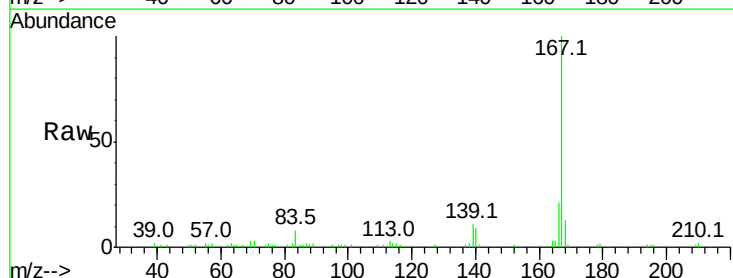
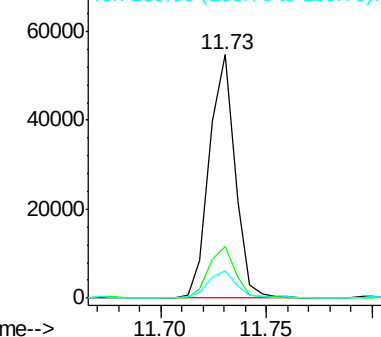
Acq: 25 Jun 2018 23:14

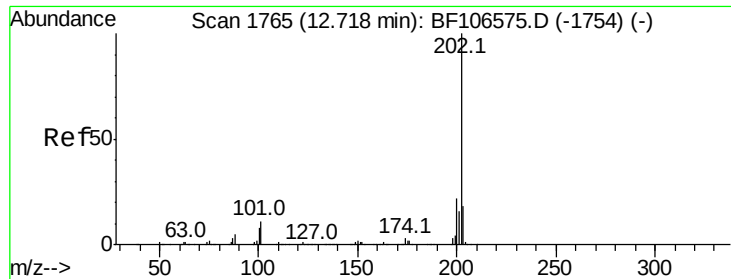
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.6	26.4
139	11.2	10.9	16.3

Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 77.528 ng

RT: 12.72 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Instrument :

BNA_F

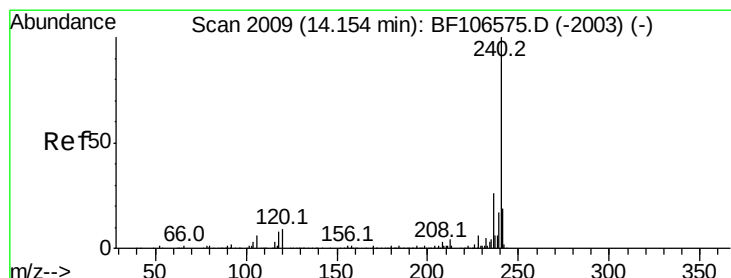
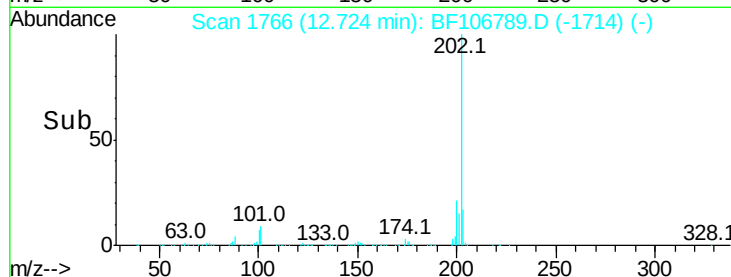
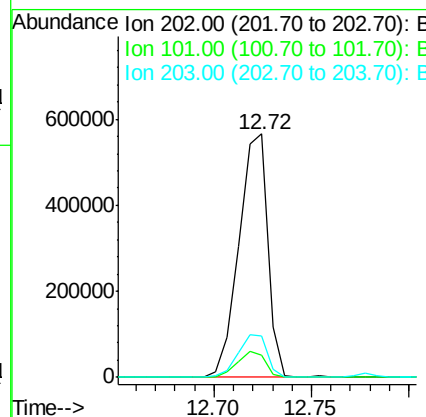
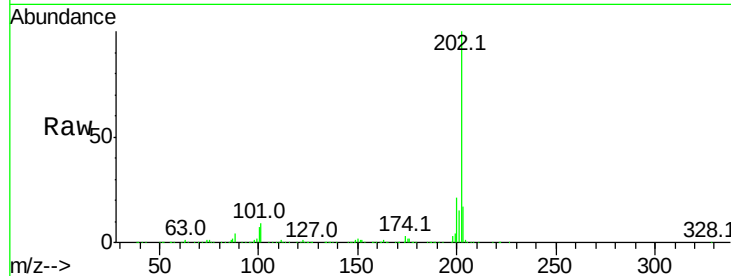
ClientSampled :

A-1

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	8.9	0.0	34.1
203	17.2	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

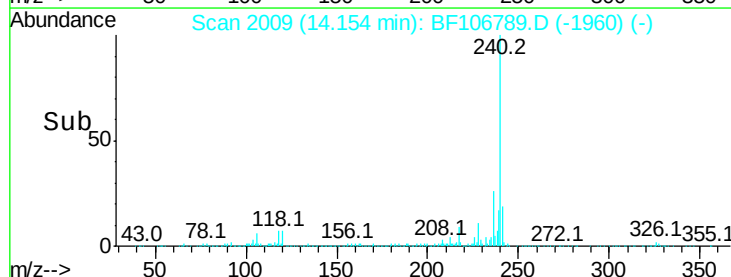
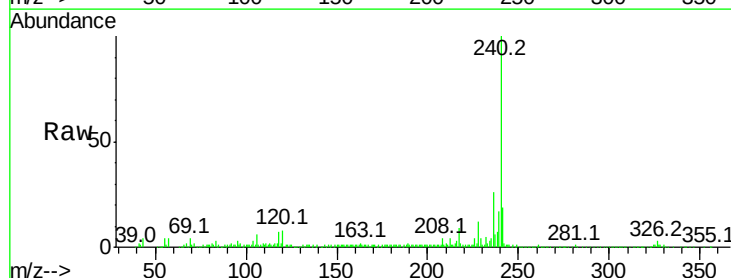
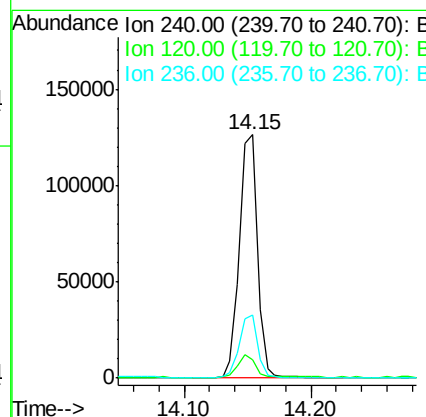
RT: 14.15 min Scan# 2009

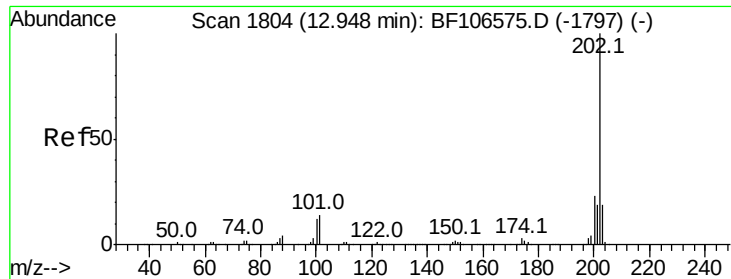
Delta R.T. -0.01 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	7.7	9.5	14.3#
236	25.8	20.7	31.1





#77

Pvrene

Concen: 53.500 ng

RT: 12.95 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Instrument :

BNA_F

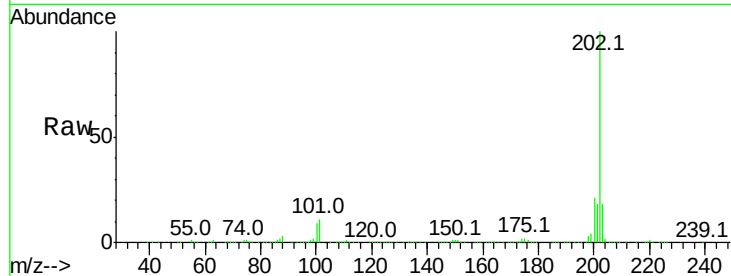
ClientSampleId :

A-1

Tot Ion:	202	Resp:	432059
Ion Ratio		Lower	Upper
202	100		
200	21.5	17.4	26.2
203	17.7	14.3	21.5

Manual Integrations
APPROVED

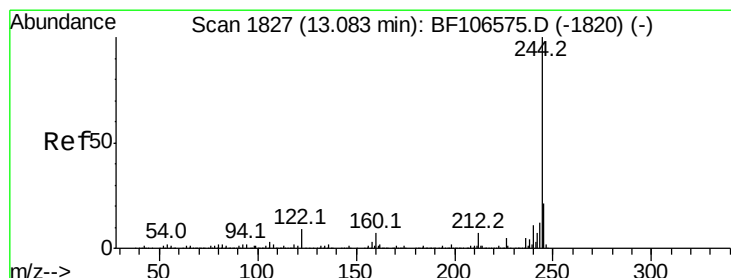
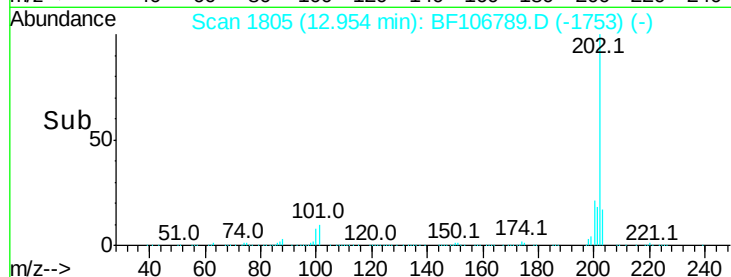
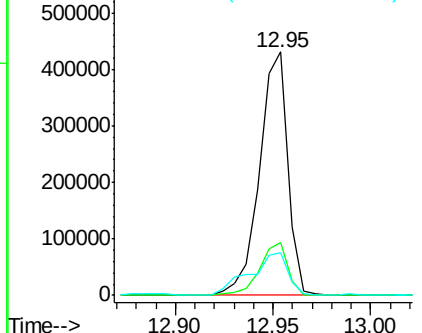
Sohil
6/27/2018 10:55:49 AM



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: 83.184 ng

RT: 13.08 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BF106789.D

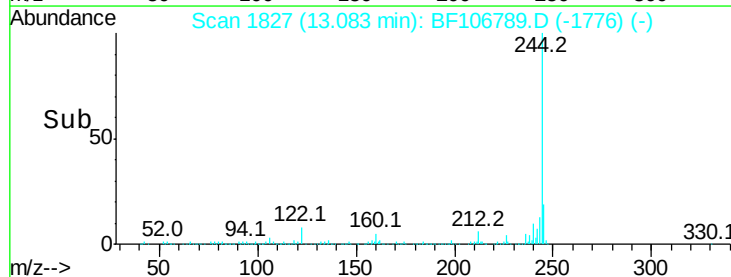
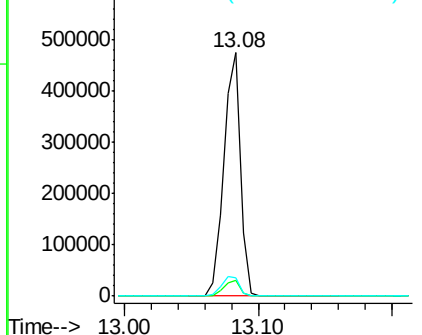
Acq: 25 Jun 2018 23:14

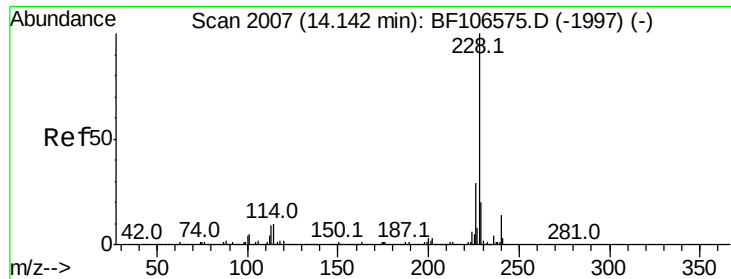
Tgt Ion:	244	Resp:	420568
Ion Ratio		Lower	Upper
244	100		
212	6.3	5.4	8.0
122	7.7	11.0	16.4#

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





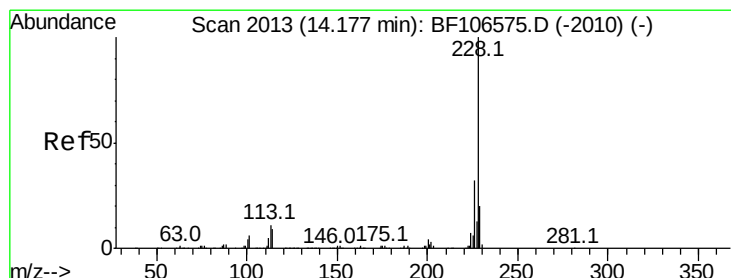
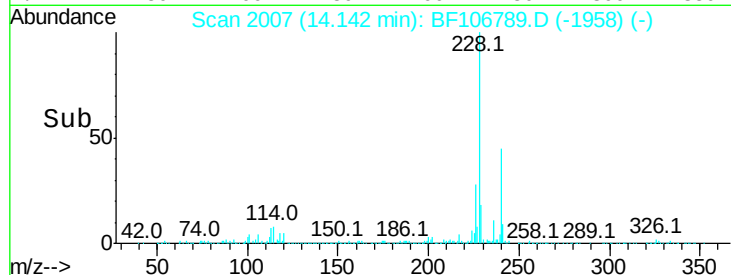
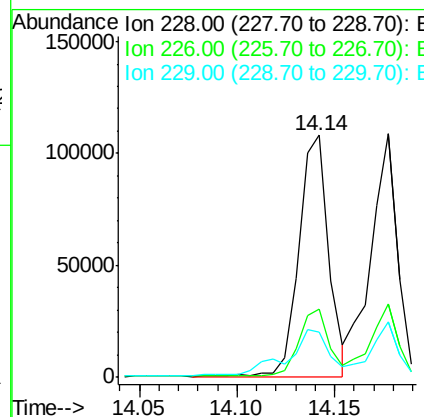
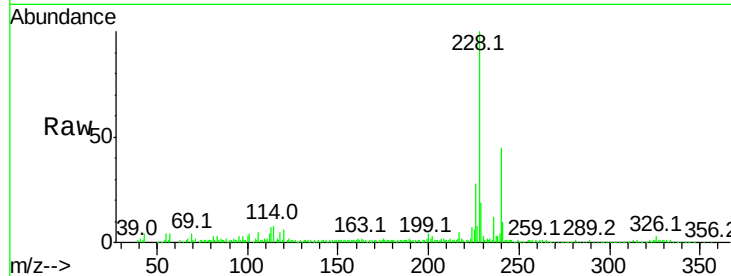
#80
Benzo(a)anthracene
Concen: 15.198 ng
RT: 14.14 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampled :
A-1

Tot Ion	Ratio	Resp	Lower	Upper
228	100	113437		
226	28.3		22.6	33.8
229	18.9		15.8	23.6

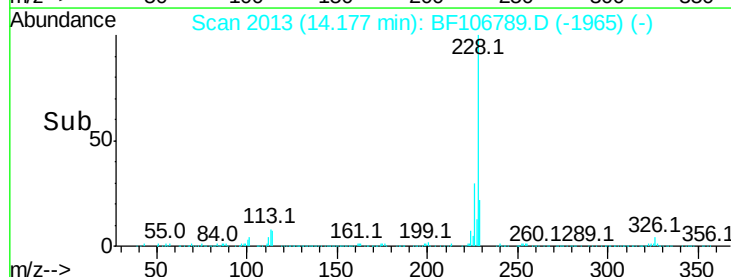
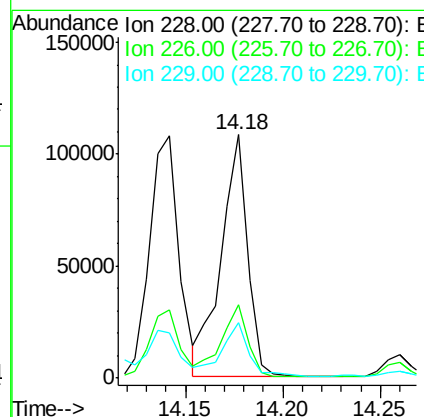
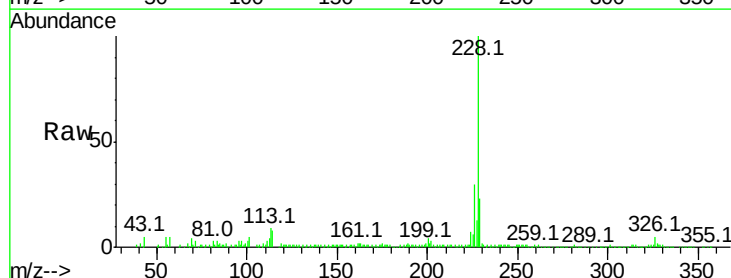
Manual Integrations
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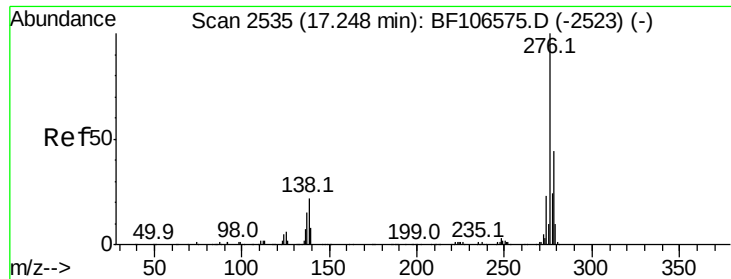
Sohil
6/27/2018 10:55:49 AM



#82
Chrysene
Concen: 15.015 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.02 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	103103		
226	30.0		25.0	37.6
229	22.6		16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.513 ng

RT: 17.26 min Scan# 2537

Delta R.T. -0.05 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Instrument :

BNA_F

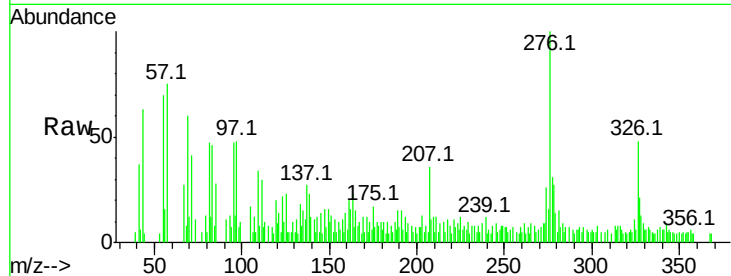
ClientSampled :

A-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
138	20.8	25.0	37.6		
277	28.8	20.1	30.1		

Manual Integrations
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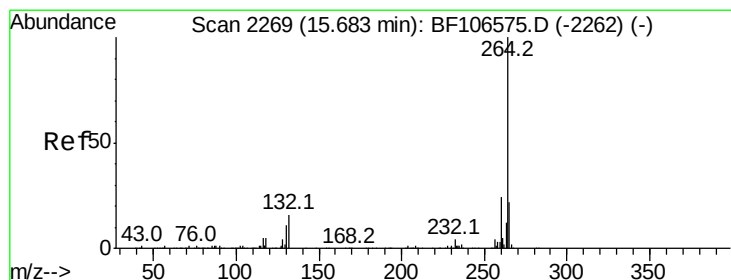
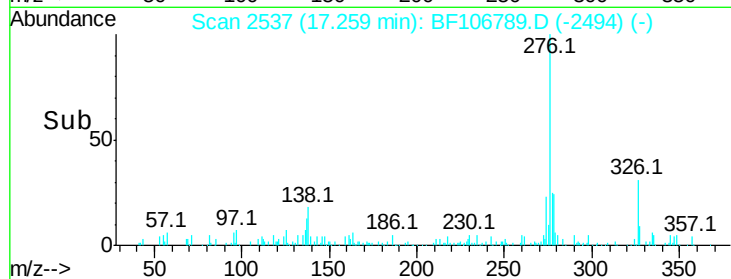
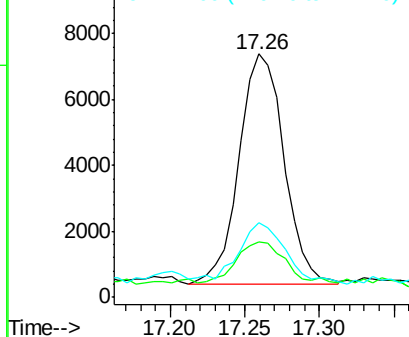


Abundance

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: 15.69 min Scan# 2270

Delta R.T. -0.03 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

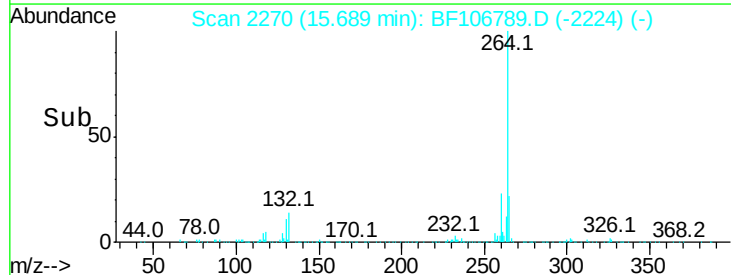
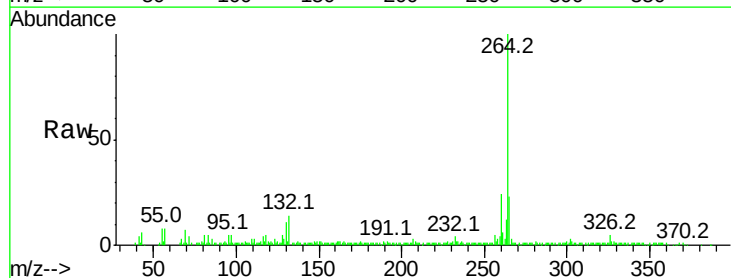
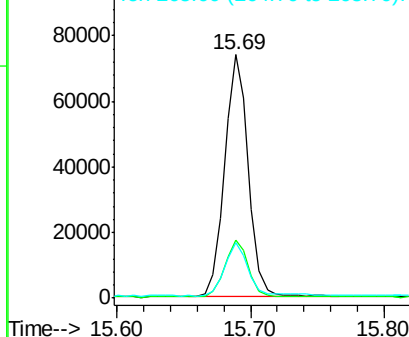
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
264	100				
260	23.7	19.2	28.8		
265	22.7	17.5	26.3		

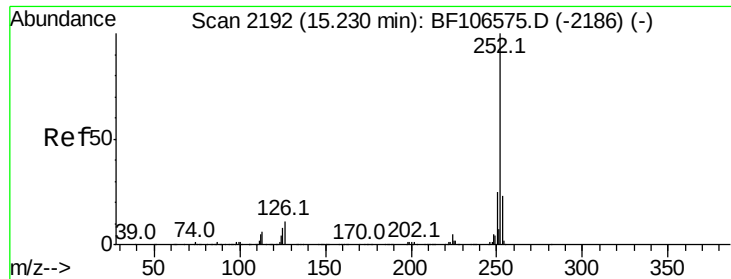
Abundance

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: 11.912 ng m

RT: 15.23 min Scan# 2192

Delta R.T. -0.03 min

Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Instrument :

BNA_F

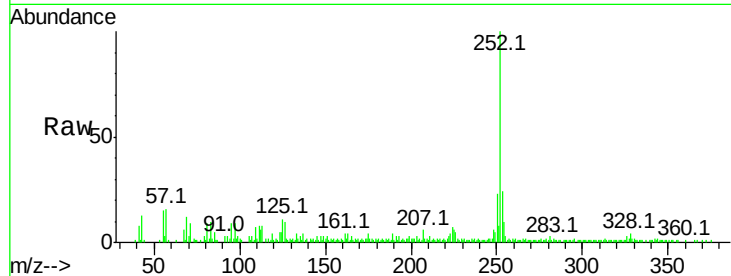
ClientSampled :

A-1

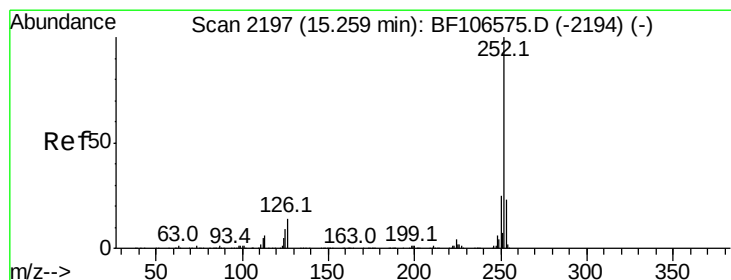
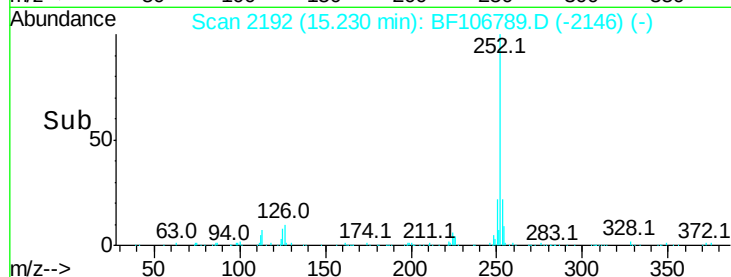
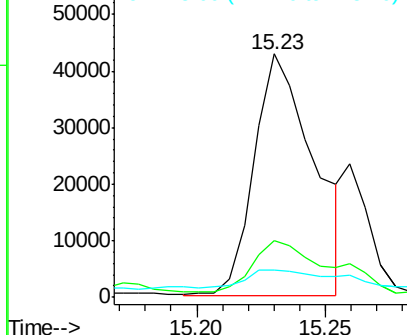
Tot Ion:	252	Resp:	68308
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.0	25.6
125	11.3	9.0	13.6

Manual Integrations
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Sohil
6/27/2018 10:55:49 AM



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: 3.021 ng m

RT: 15.26 min Scan# 2197

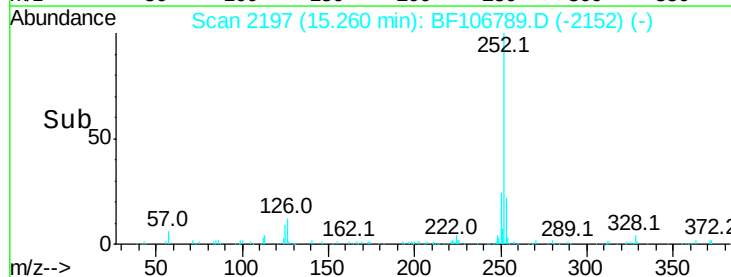
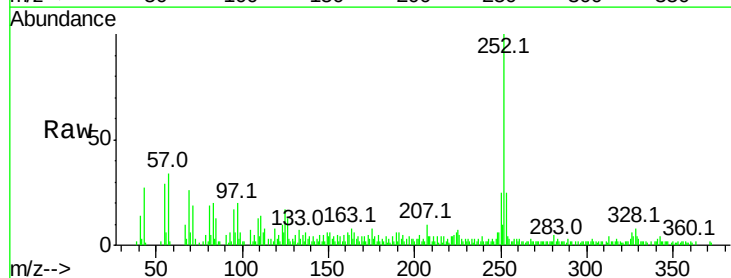
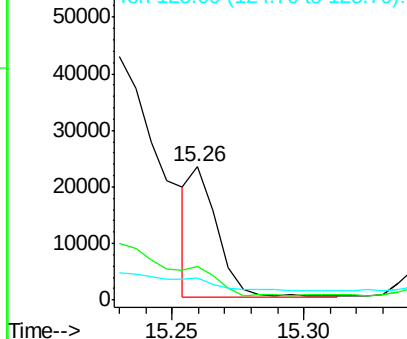
Delta R.T. -0.04 min

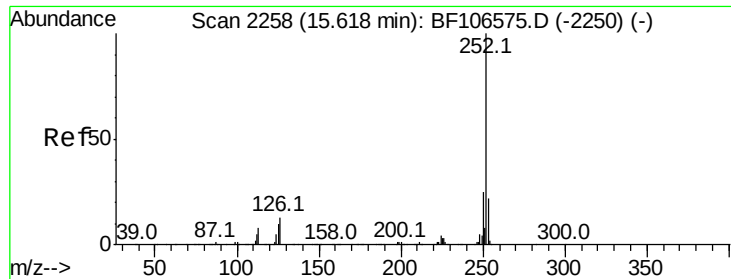
Lab File: BF106789.D

Acq: 25 Jun 2018 23:14

Tgt Ion:	252	Resp:	16497
Ion Ratio	Lower	Upper	
252	100		
253	25.0	17.9	26.9
125	16.8	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





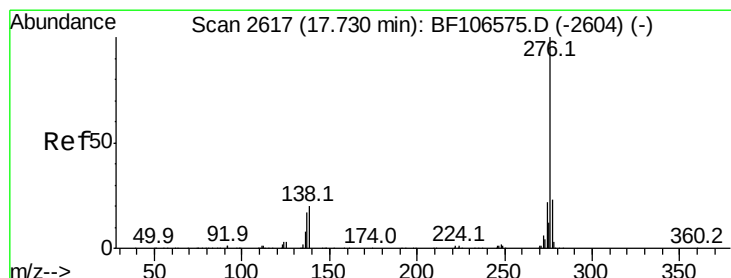
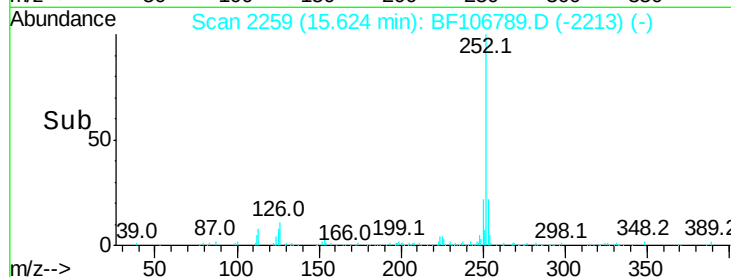
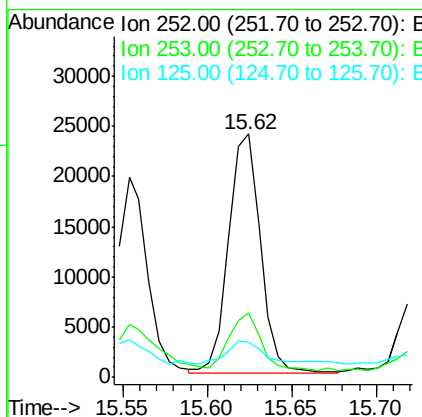
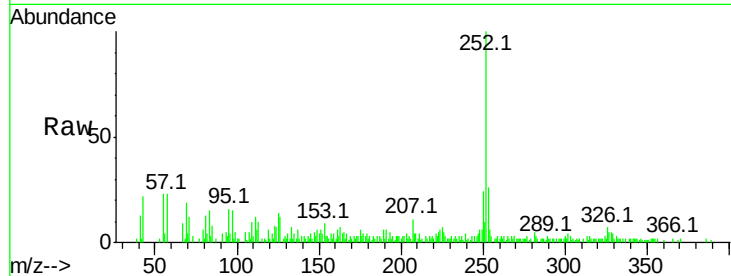
#89
Benzo(a)pyrene
Concen: 6.110 ng
RT: 15.62 min Scan# 2259
Delta R.T. -0.03 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Instrument :
BNA_F
ClientSampled :
A-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.3	17.1	25.7#
125	14.2	9.8	14.6

Manual Integrations
APPROVED

Sohil
6/27/2018 10:55:49 AM



#91
Benzo(g,h,i)perylene
Concen: 2.993 ng
RT: 17.74 min Scan# 2619
Delta R.T. -0.05 min
Lab File: BF106789.D
Acq: 25 Jun 2018 23:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	22.2	21.8	32.8

