

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101485.D
 Acq On : 18 Dec 2017 17:20
 Operator : SJ/JU
 Sample : I6877-04 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)

Manual Integrations
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Quant Time: Dec 19 06:04:57 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	175668	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	652691	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	252928	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	398454	20.00	ng	0.00
75) Chrysene-d12	14.00	240	269648	20.00	ng	0.01
86) Perylene-d12	15.47	264	254031	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	674567	57.20	ng	0.00
7) Phenol-d6	6.45	99	777866	53.00	ng	0.00
23) Nitrobenzene-d5	7.37	82	434223	37.03	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	111856	45.90	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	634764	38.93	ng	0.00
78) Terphenyl-d14	12.92	244	425602	38.05	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.46	94	57306	3.426	ng	90
31) Naphthalene	8.12	128	156371	4.759	ng	99
32) Benzoic acid	7.90	122	8649	9.091	ng	# 27
49) Dimethylphthalate	9.56	163	71079	3.494	ng	98
51) Acenaphthene	9.88	154	156915	9.634	ng	99
54) Dibenzofuran	10.06	168	108612	5.247	ng	99
57) Fluorene	10.40	166	131743	7.524	ng	99
70) Phenanthrene	11.37	178	1346712	60.776	ng	99
71) Anthracene	11.42	178	531544	23.484	ng	99
72) Carbazole	11.57	167	279058	13.168	ng	99
74) Fluoranthene	12.57	202	1859107	79.932	ng	97
77) Pyrene	12.80	202	1895001	93.640	ng	99
80) Benzo(a)anthracene	13.99	228	1366146	76.727	ng	97
82) Chrysene	14.03	228	1172373	69.737	ng	96
85) Indeno(1,2,3-cd)pyrene	16.98	276	1059789	70.792	ng	# 90
87) Benzo(b)fluoranthene	15.05	252	1824171m	117.812	ng	
88) Benzo(k)fluoranthene	15.07	252	460152m	30.566	ng	
89) Benzo(a)pyrene	15.42	252	1512922	105.993	ng	96
90) Dibenzo(a,h)anthracene	16.97	278	258738m	21.112	ng	
91) Benzo(g,h,i)perylene	17.43	276	1050684	86.581	ng	93

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

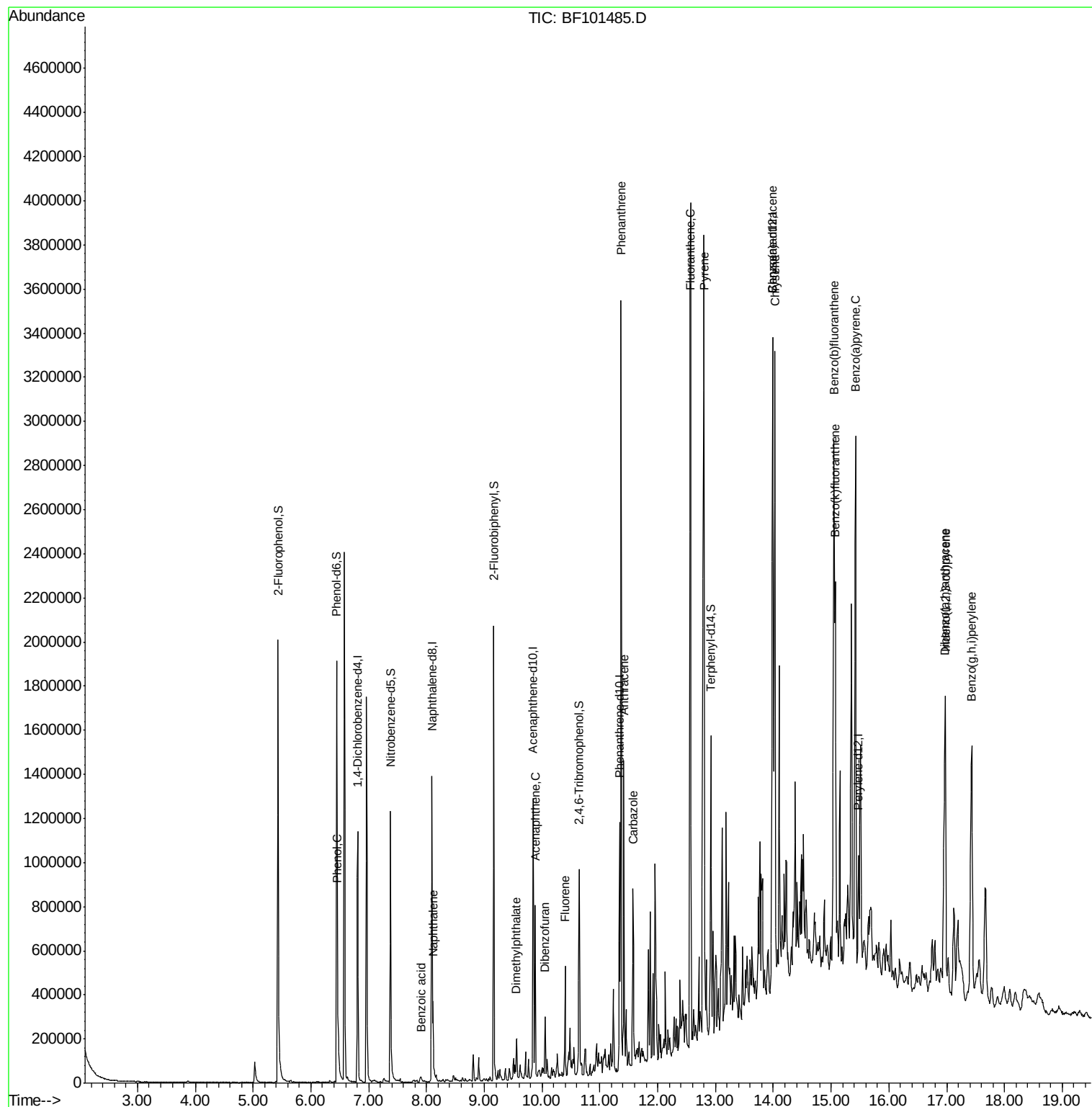
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
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ALS Vial : 14 Sample Multiplier: 1

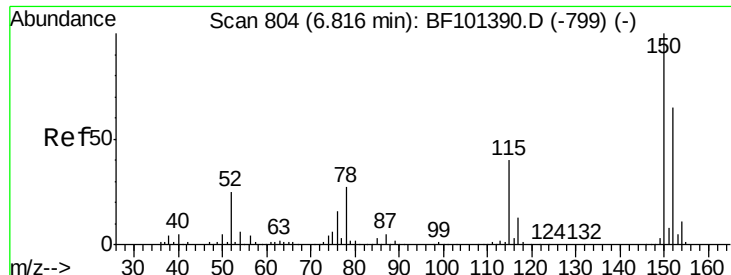
Instrument :
BNA_F
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SB-7(13-15)

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Quant Time: Dec 19 06:04:57 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

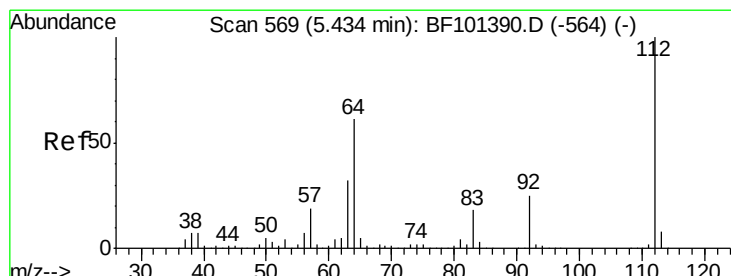
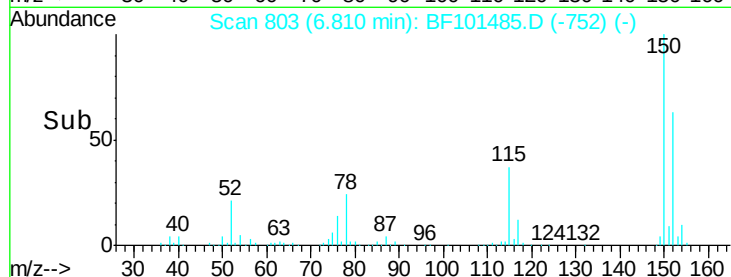
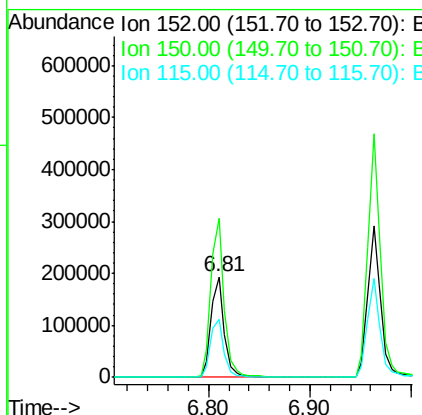
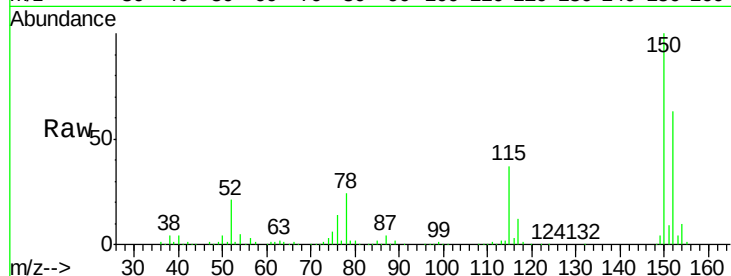
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.7	124.6	186.8
115	58.1	50.1	75.1

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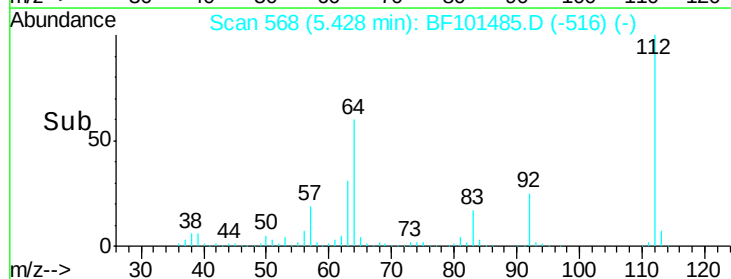
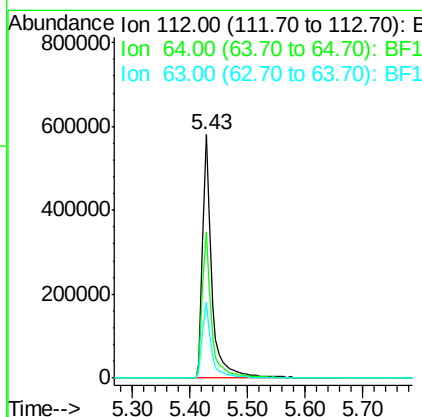
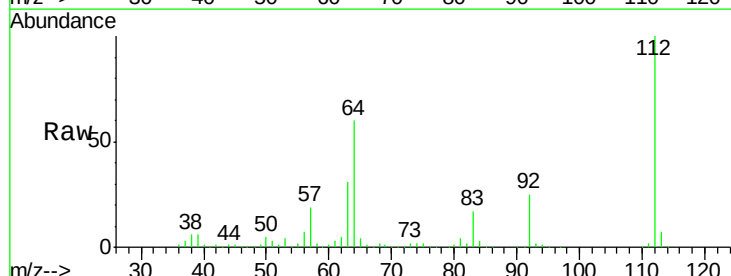
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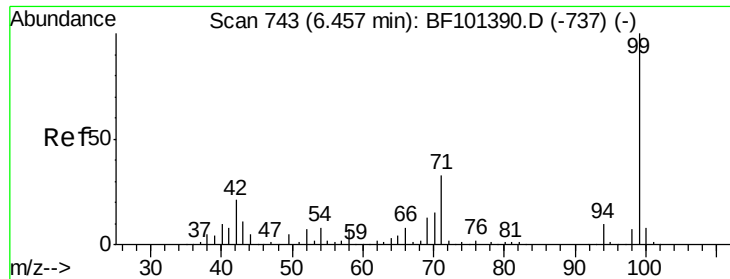


#5

2-Fluorophenol
Concen: 57.200 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.9	71.9
63	31.2	23.7	35.5





#7

Phenol-d6

Concen: 52.999 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Instrument :

BNA_F

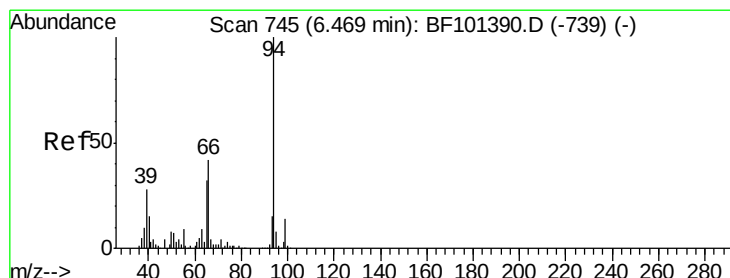
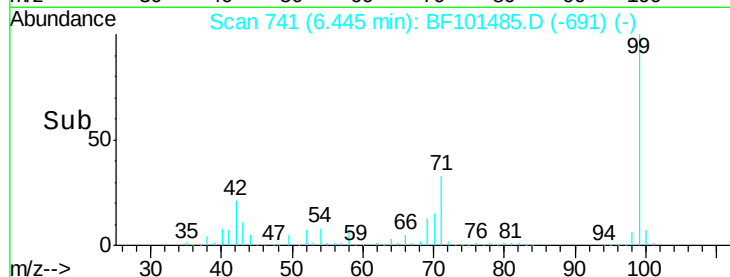
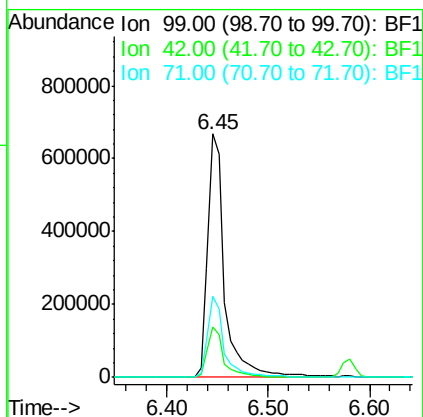
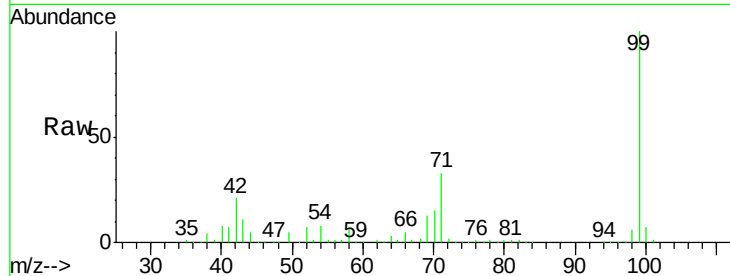
ClientSampleId :

SB-7(13-15)

Tgt Ion:	99	Resp:	777866
Ion Ratio	Lower	Upper	
99	100		
42	20.9	14.5	21.7
71	33.2	25.4	38.0

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#10

Phenol

Concen: 3.426 ng

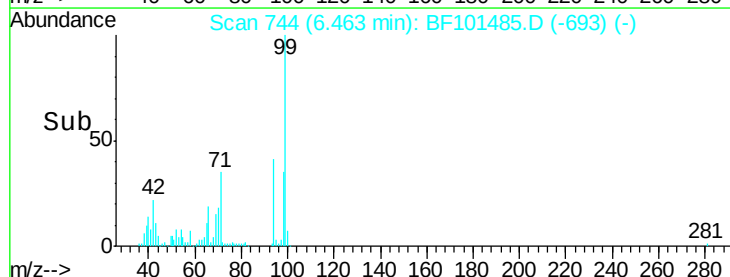
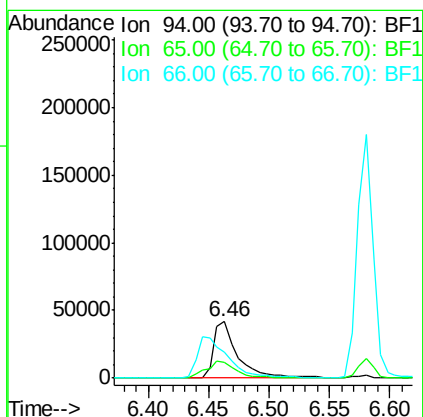
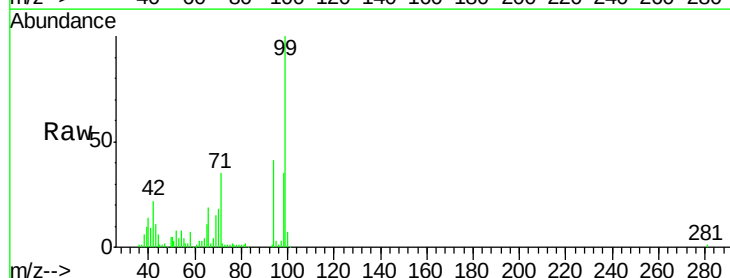
RT: 6.46 min Scan# 744

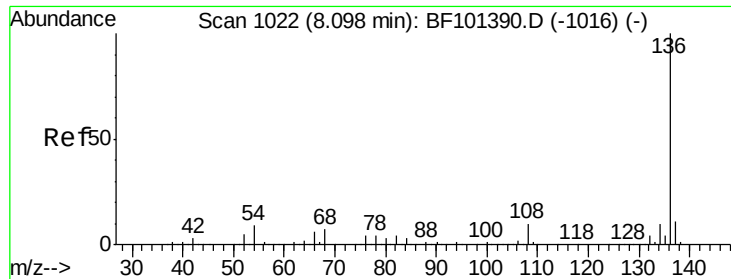
Delta R.T. -0.00 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Tgt Ion:	94	Resp:	57306
Ion Ratio	Lower	Upper	
94	100		
65	27.0	7.9	47.9
66	45.4	16.2	56.2





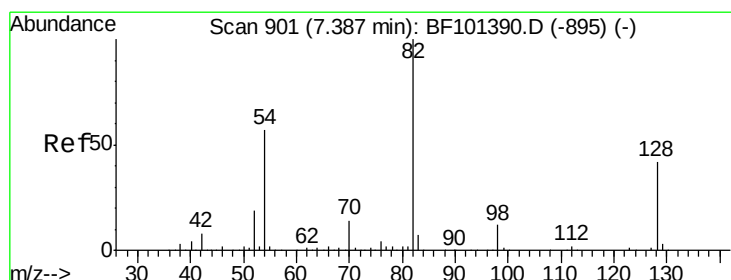
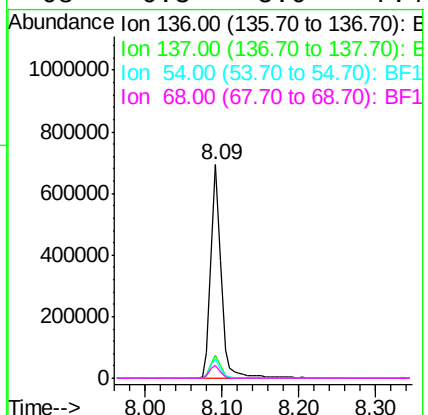
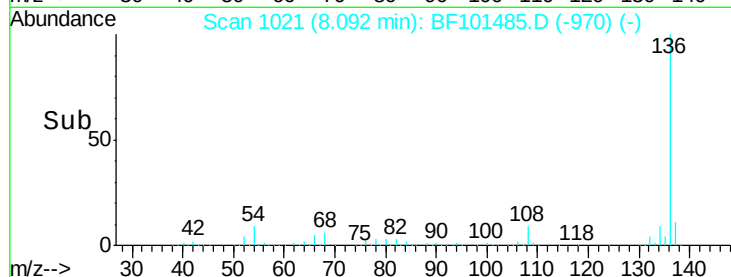
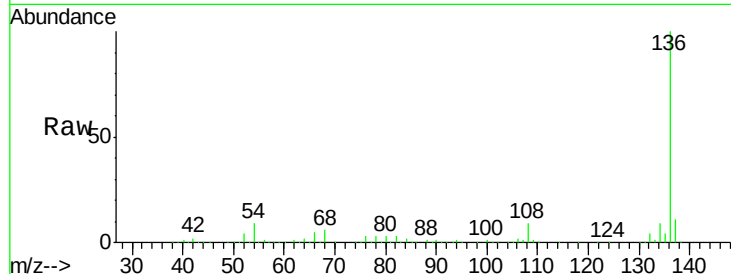
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	652691		
137	11.0	8.9	13.3	
54	8.8	6.6	9.8	
68	6.3	5.0	7.4	

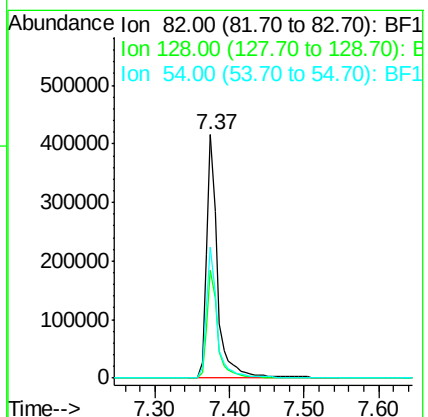
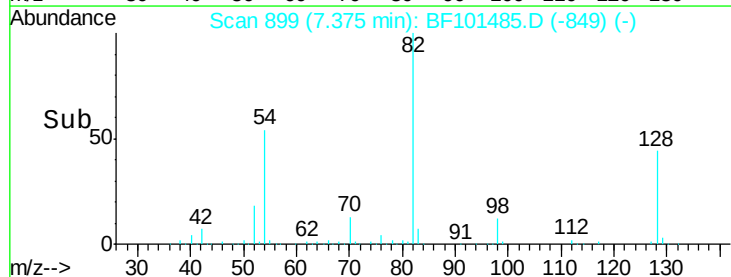
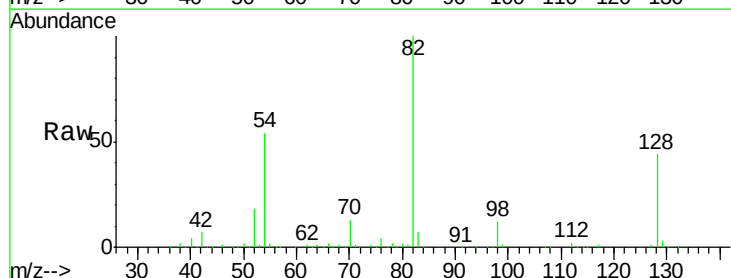
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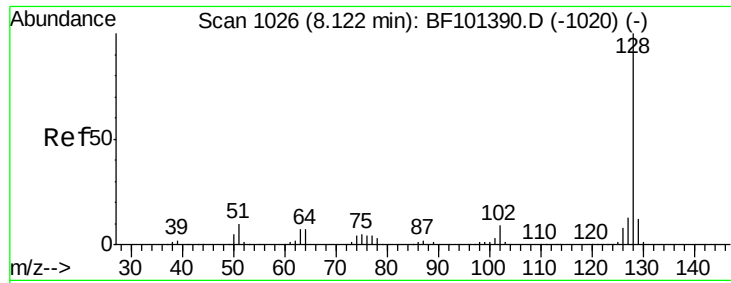
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#23
Nitrobenzene-d5
Concen: 37.033 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	434223		
128	44.2	36.1	54.1	
54	53.7	41.4	62.2	





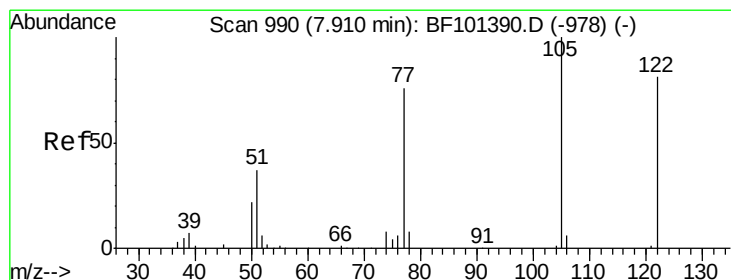
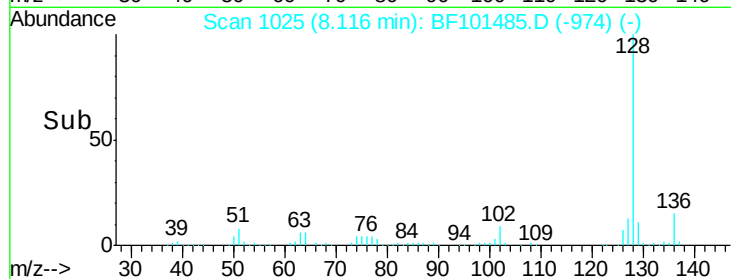
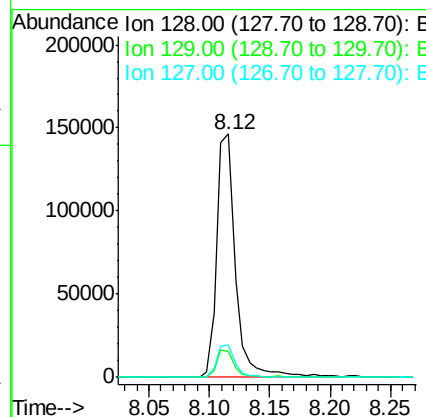
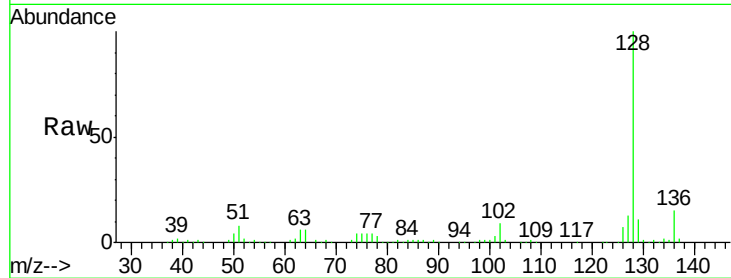
#31
Naphthalene
Concen: 4.759 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampled :
SB-7(13-15)

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.6	8.8	13.2
127	13.4	10.9	16.3

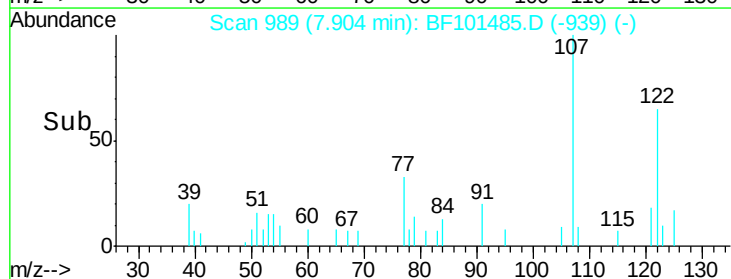
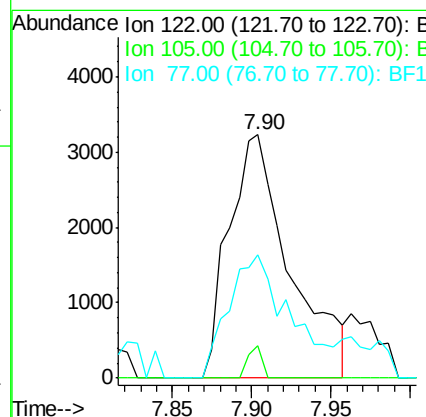
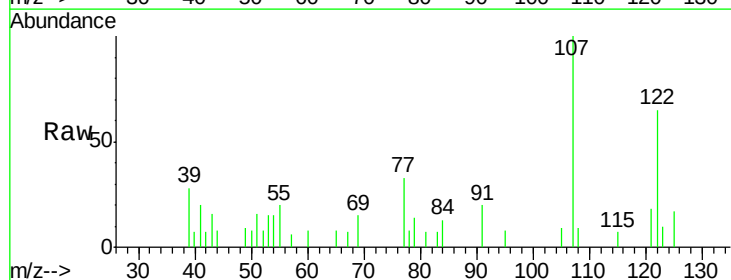
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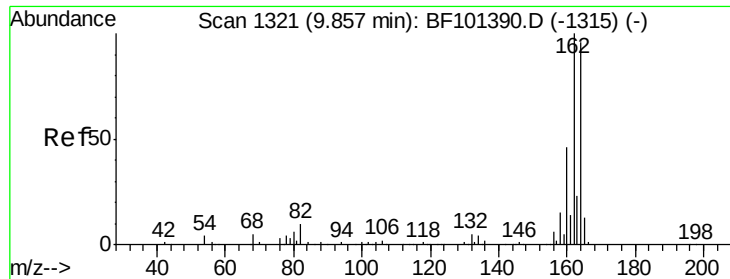
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#32
Benzoic acid
Concen: 9.091 ng
RT: 7.90 min Scan# 989
Delta R.T. -0.01 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp Lower	Resp Upper
122	100		
105	13.4	101.1	141.1#
77	50.8	70.7	110.7#





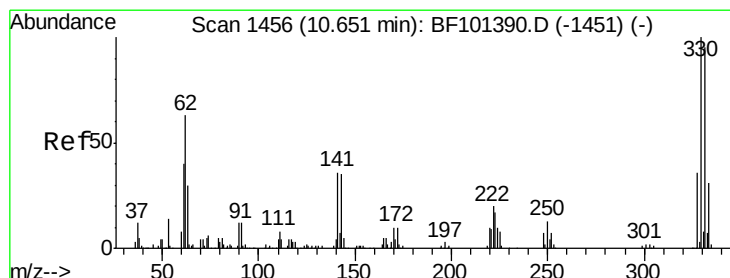
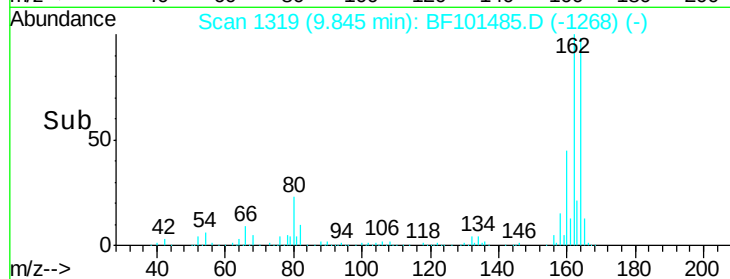
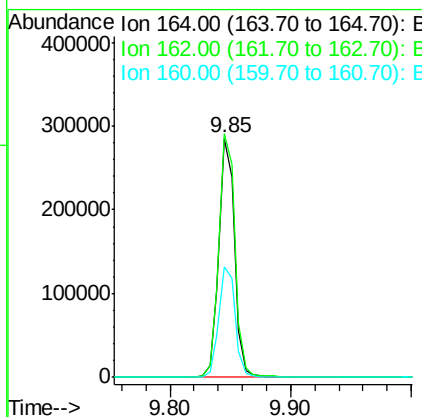
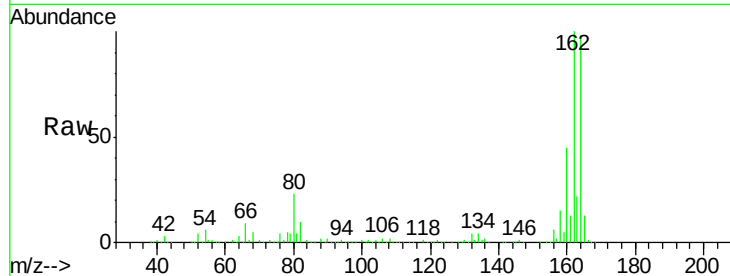
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	252928		
162	102.0	86.1	129.1	
160	46.1	38.3	57.5	

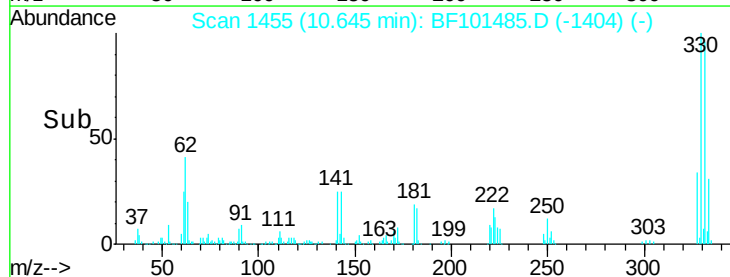
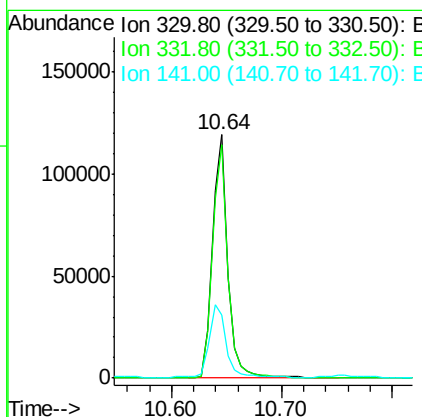
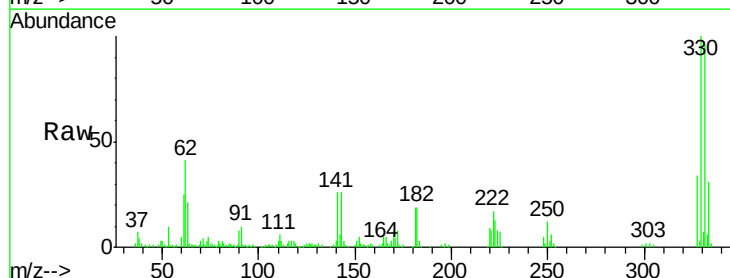
Manual Integrations
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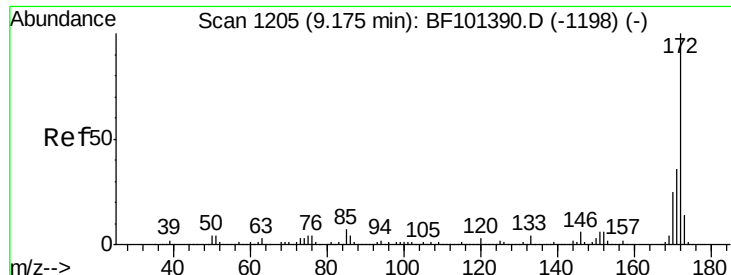
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#41
 2,4,6-Tribromophenol
 Concen: 45.896 ng
 RT: 10.64 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	111856		
332	97.0	77.0	115.6	
141	35.4	29.9	44.9	





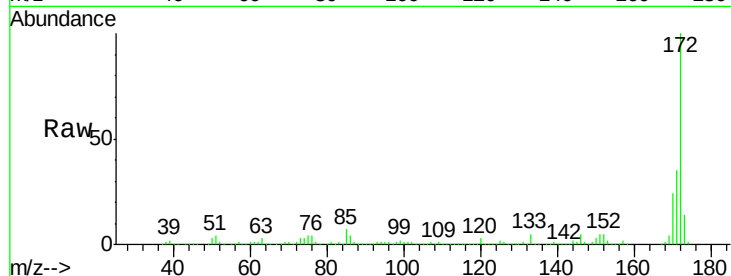
#44
2-Fluorobiphenyl
Concen: 38.931 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)

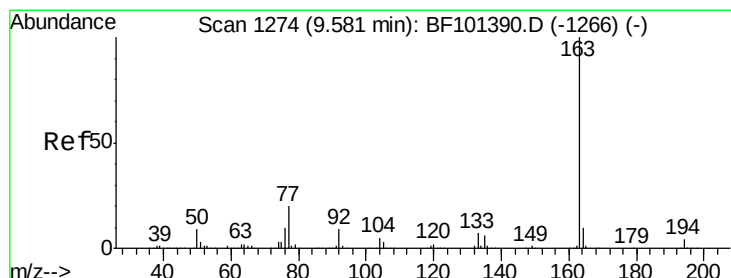
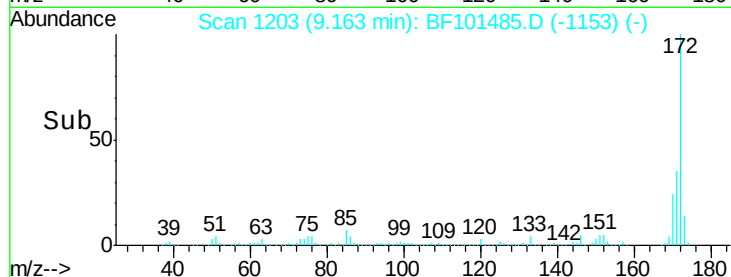
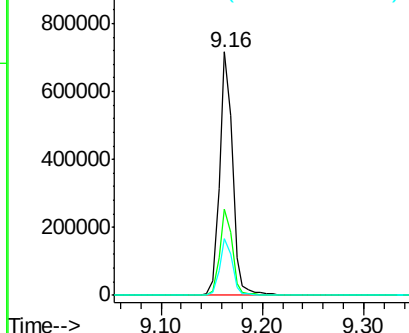
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	634764		
171	35.4		29.7	44.5
170	23.6		19.6	29.4

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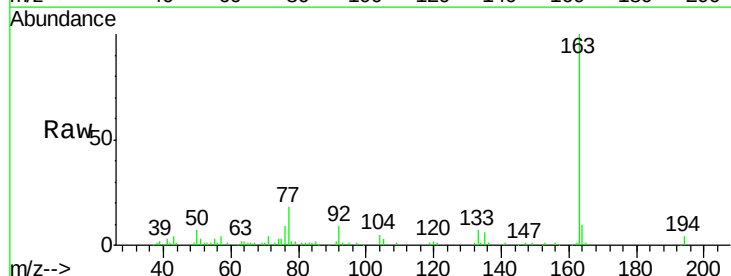


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

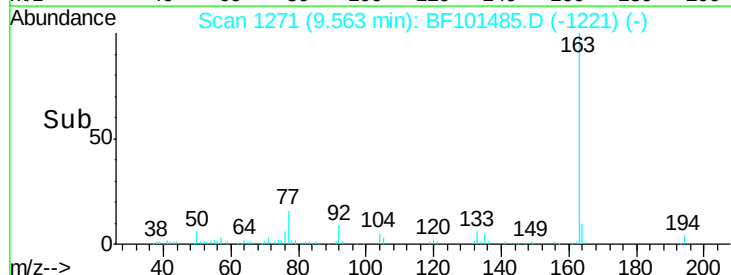
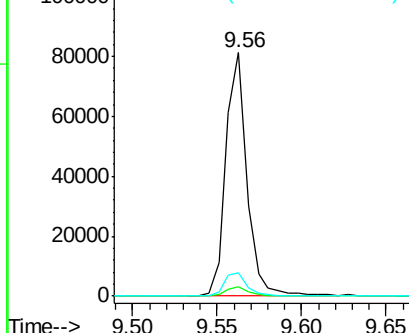


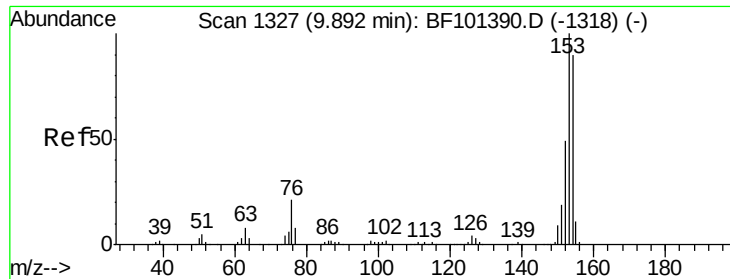
#49
Dimethylphthalate
Concen: 3.494 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	71079		
194	4.0		2.7	4.1
164	9.7		8.2	12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 9.634 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Instrument :

BNA_F

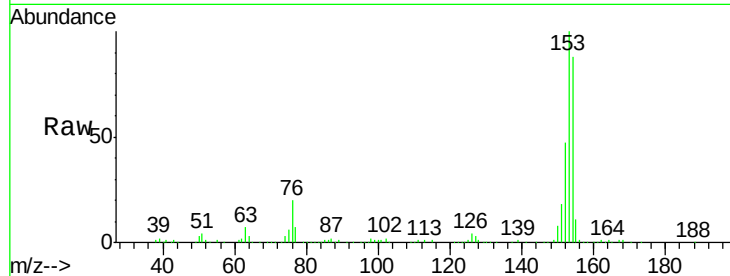
ClientSampleId :

SB-7(13-15)

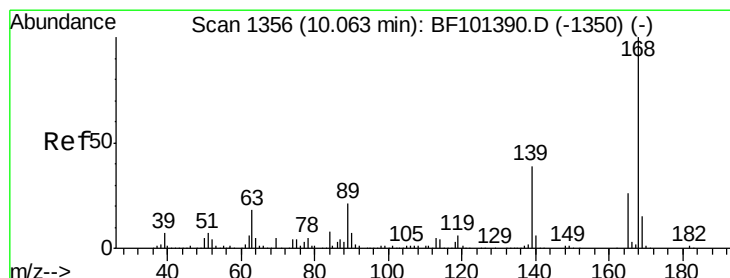
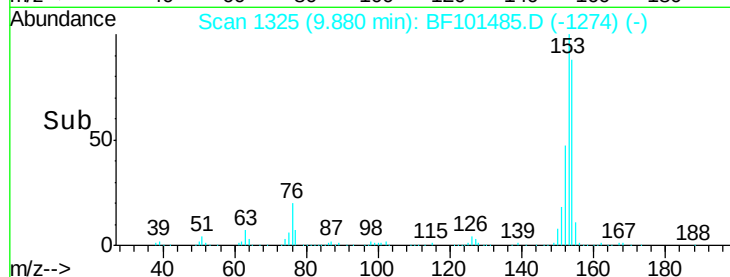
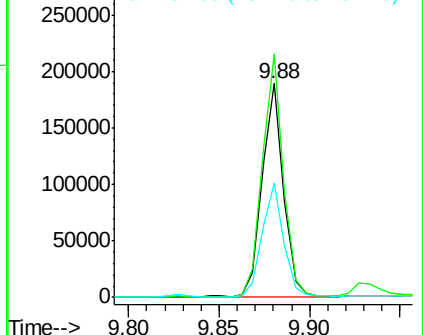
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	156915		
153	114.0	91.2	136.8	
152	53.6	43.8	65.8	

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.247 ng

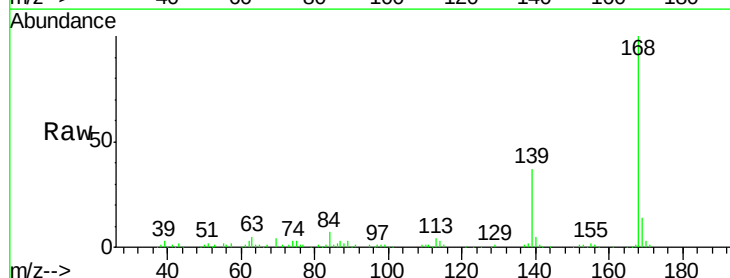
RT: 10.06 min Scan# 1355

Delta R.T. 0.01 min

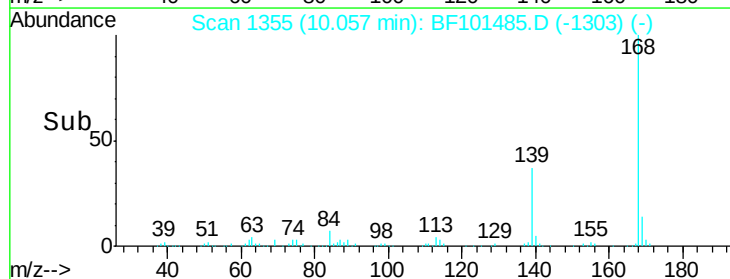
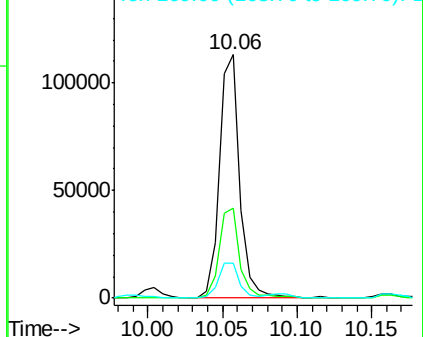
Lab File: BF101485.D

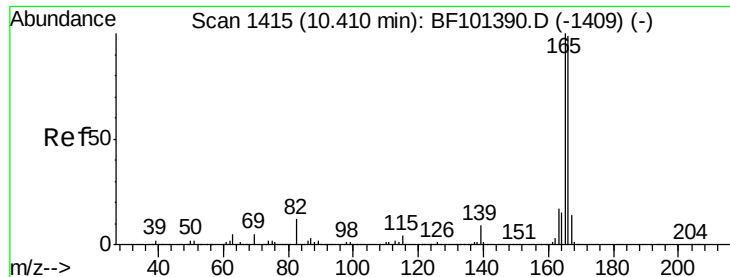
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	108612		
139	37.0	30.1	45.1	
169	14.3	10.9	16.3	



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





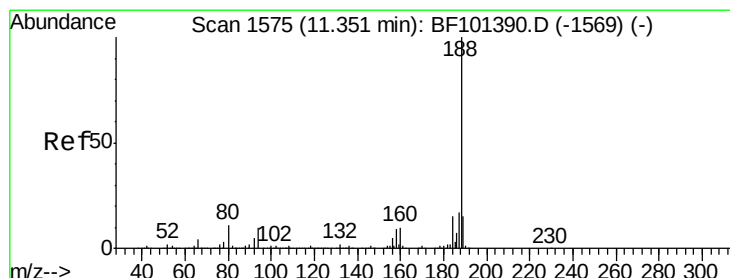
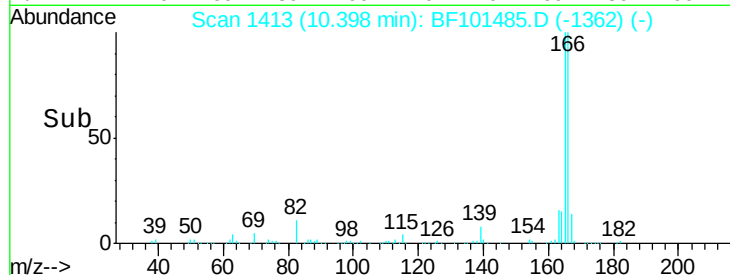
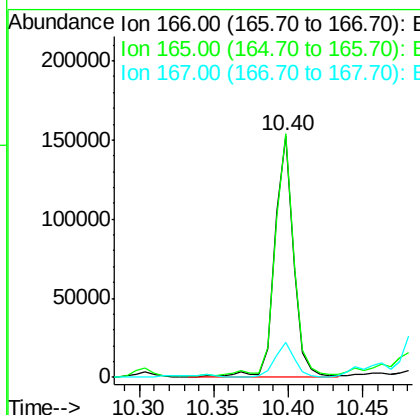
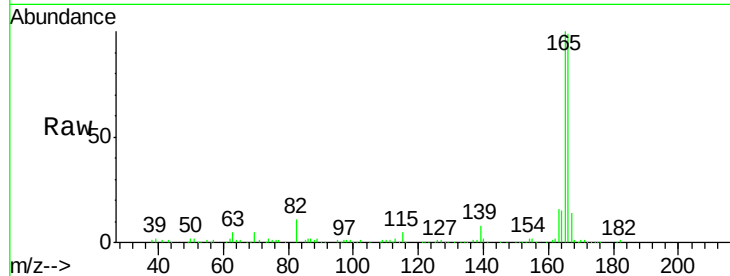
#57
Fluorene
 Concen: 7.524 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	131743		
165	100.8	79.8	119.8	
167	14.3	10.6	16.0	

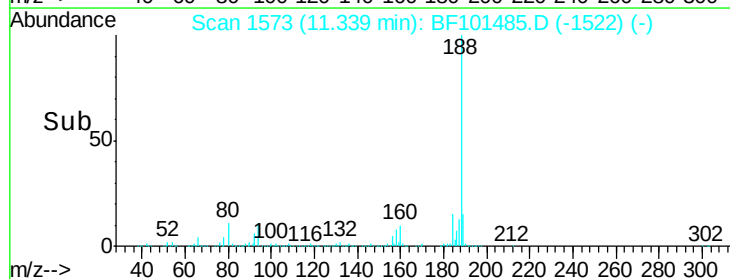
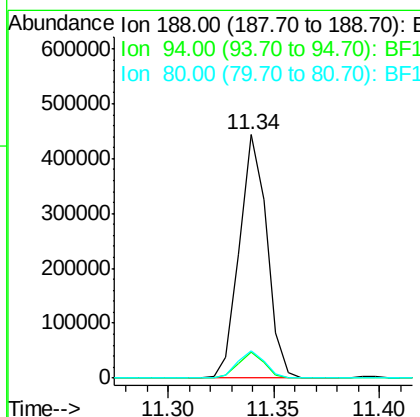
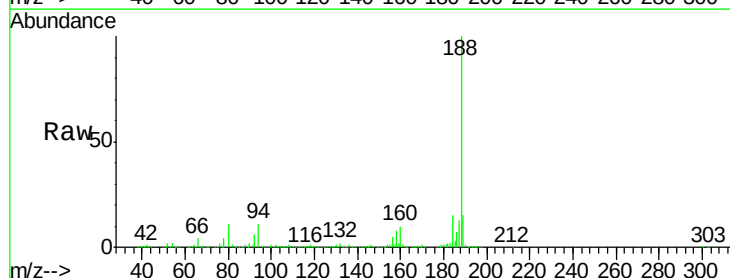
Manual Integrations
 APPROVED

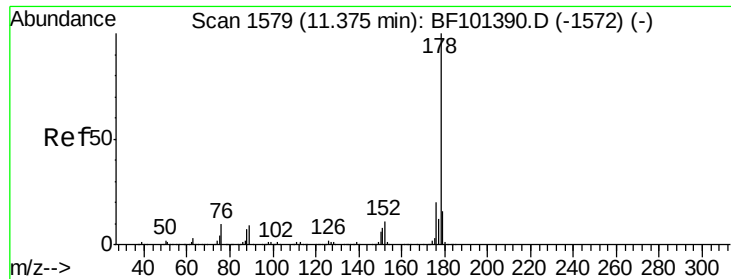
Sohil
 12/19/2017 4:49:51 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	398454		
94	10.7	8.5	12.7	
80	11.2	9.2	13.8	





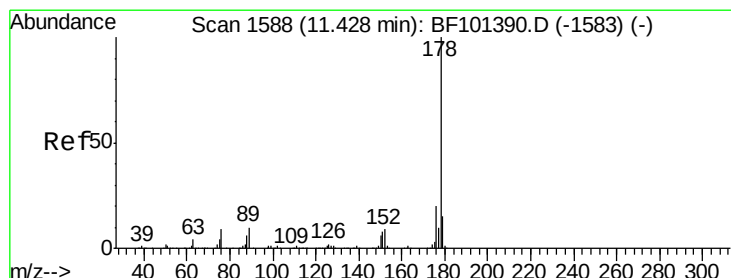
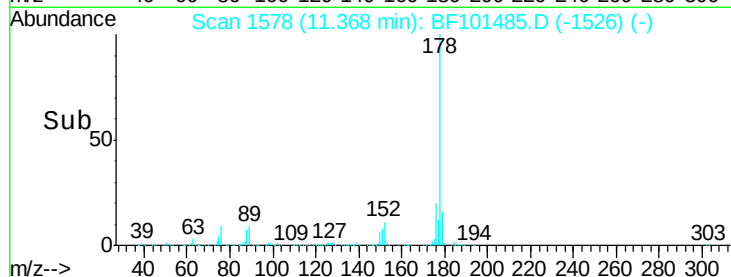
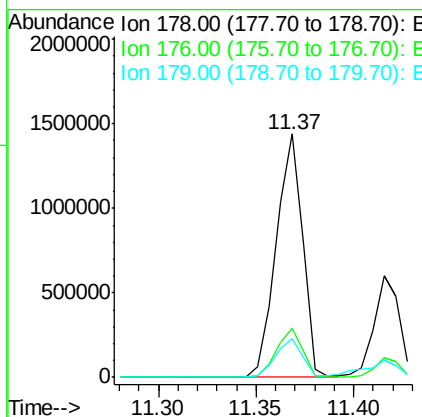
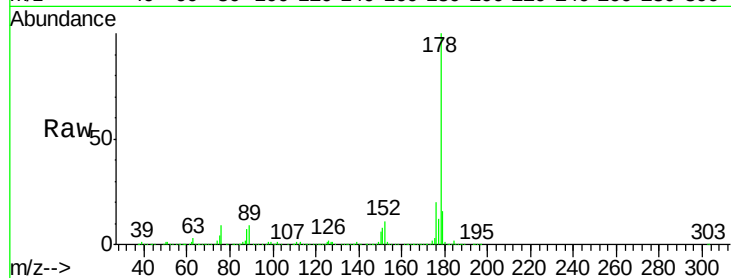
#70
Phenanthrene
Concen: 60.776 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	16.0	13.0	19.6

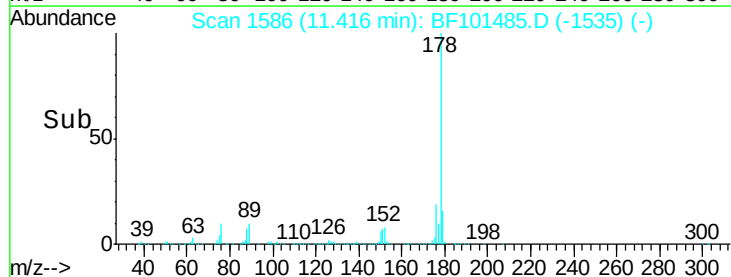
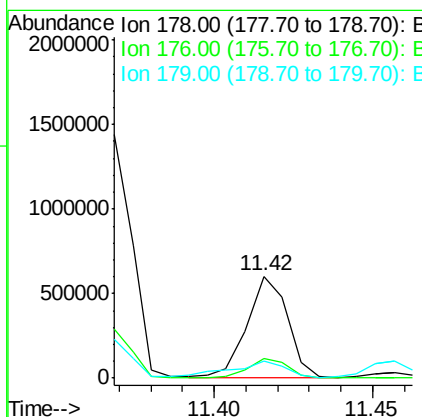
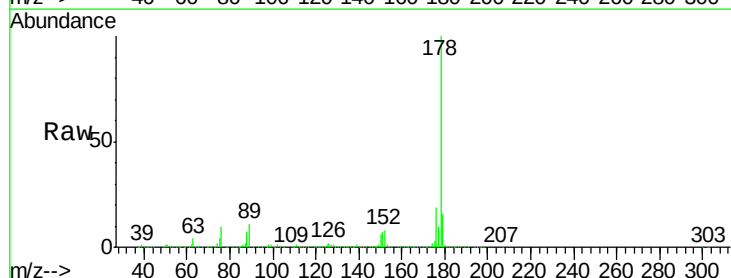
Manual Integrations
APPROVED

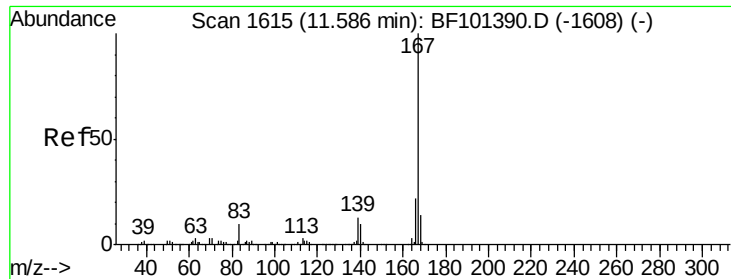
Sohil
12/19/2017 4:49:51 PM



#71
Anthracene
Concen: 23.484 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.00 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	16.2	12.6	19.0





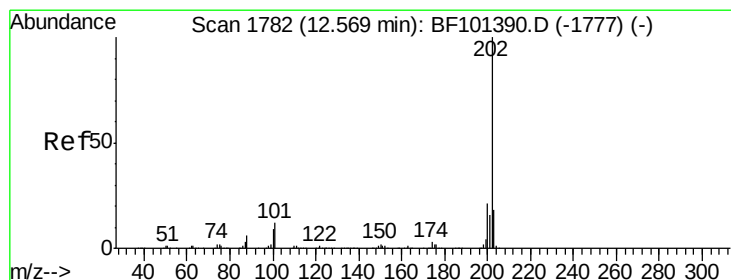
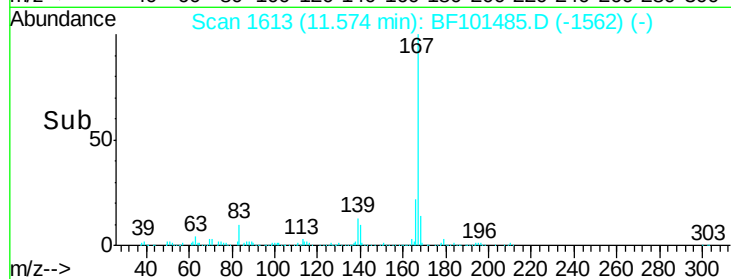
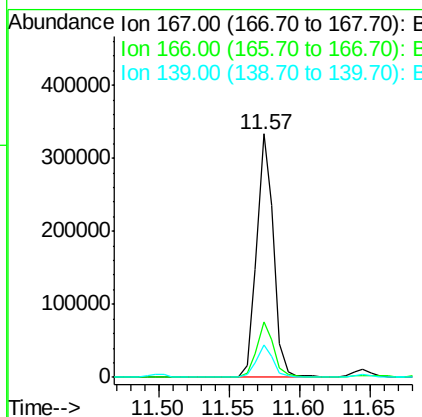
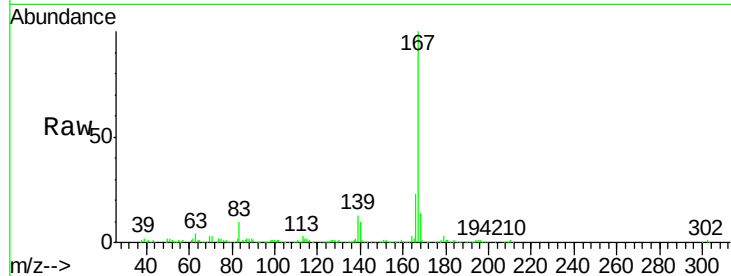
#72
 Carbazole
 Concen: 13.168 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.00 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	279058		
166	22.6		17.6	26.4
139	13.1		10.9	16.3

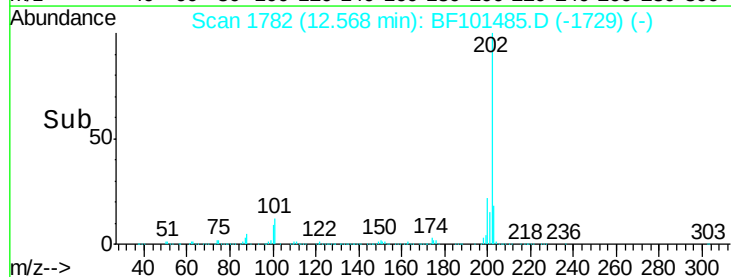
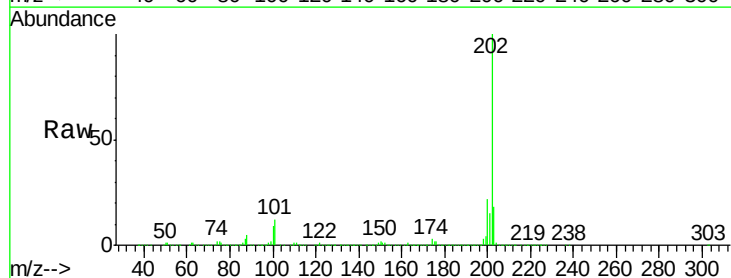
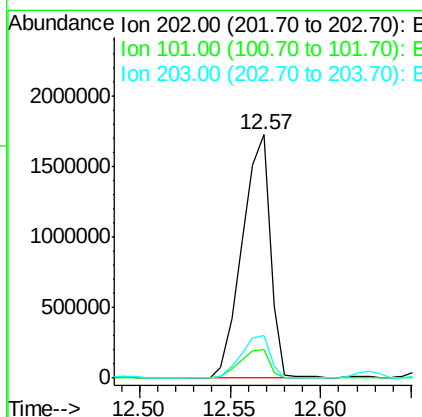
Manual Integrations
 APPROVED

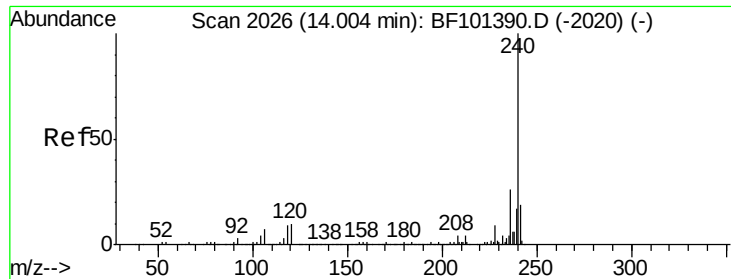
Sohil
 12/19/2017 4:49:51 PM



#74
 Fluoranthene
 Concen: 79.932 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. 0.01 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1859107		
101	11.6		0.0	34.1
203	17.8		0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Instrument :

BNA_F

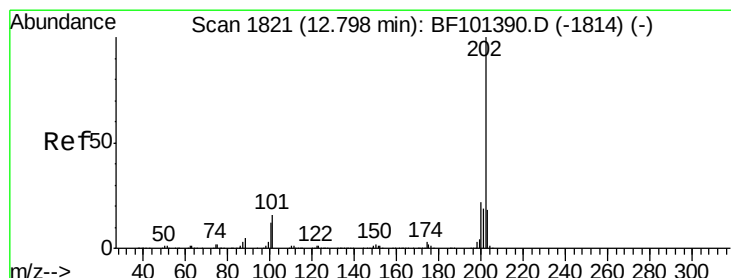
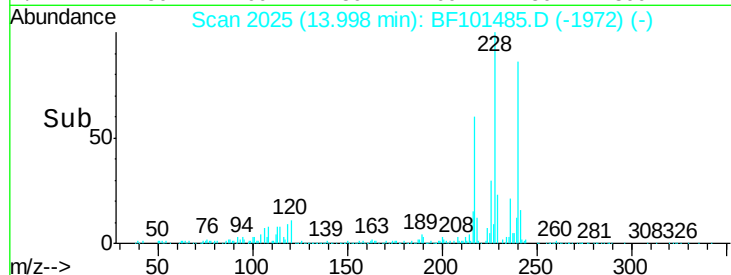
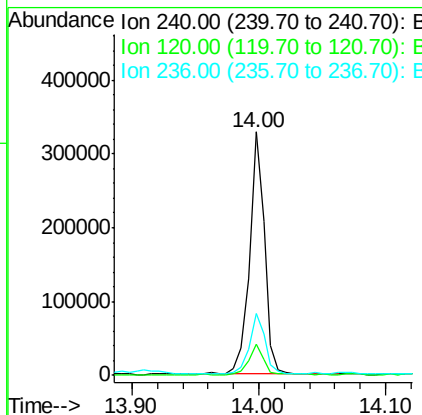
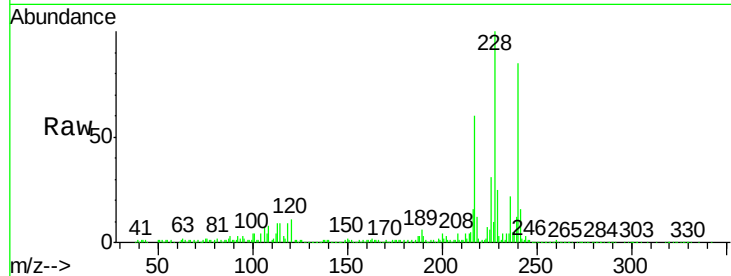
ClientSampled :

SB-7(13-15)

Tgt	Ion	240	Resp	269648
Ion	Ratio	Lower	Upper	
240	100			
120	12.7	9.5	14.3	
236	25.5	20.7	31.1	

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:51 PM



#77

Pyrene

Concen: 93.640 ng

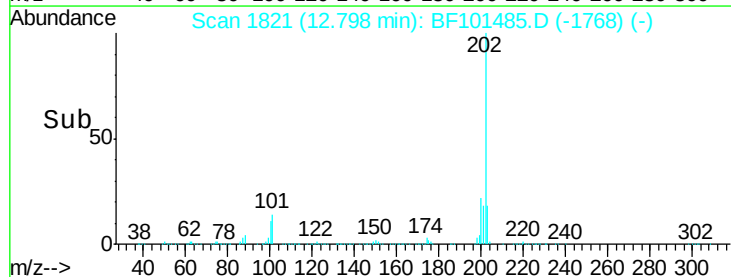
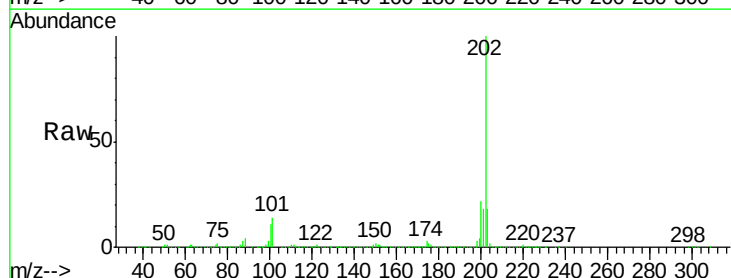
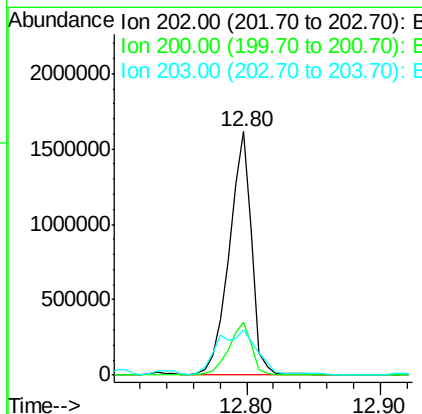
RT: 12.80 min Scan# 1821

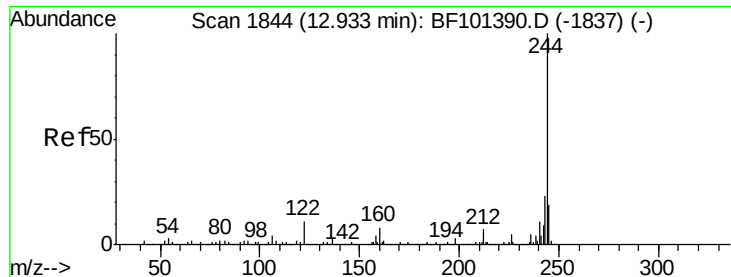
Delta R.T. 0.01 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Tgt	Ion	202	Resp	1895001
Ion	Ratio	Lower	Upper	
202	100			
200	21.8	17.4	26.2	
203	18.4	14.3	21.5	





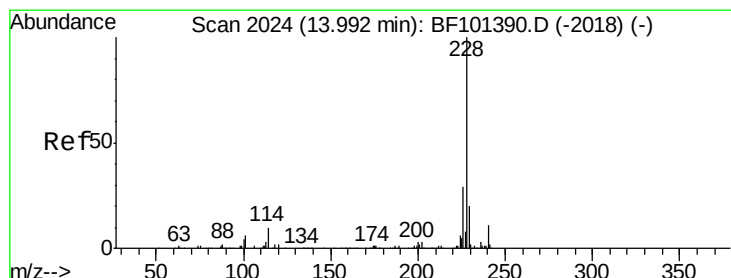
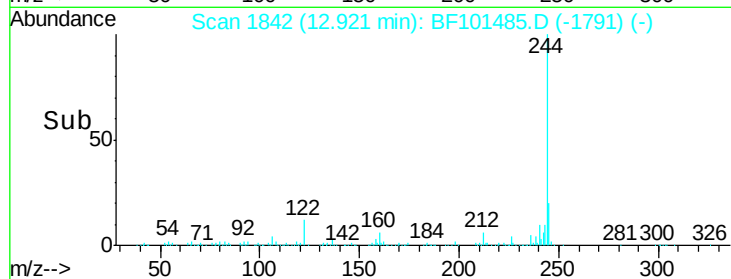
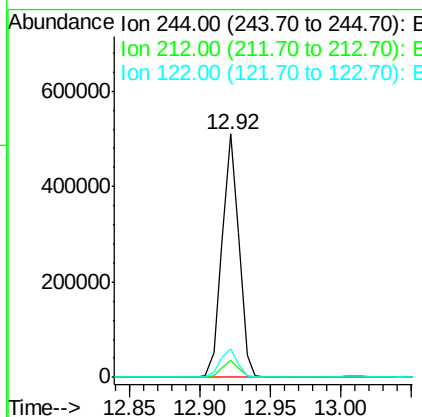
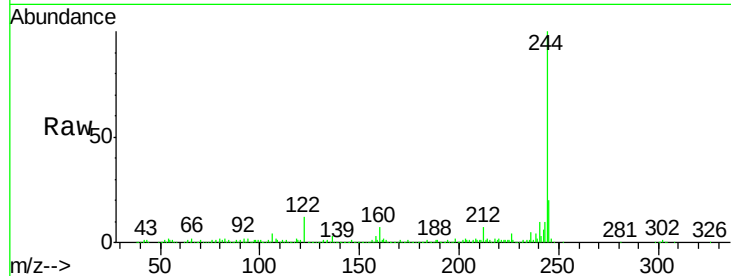
#78
 Terphenyl-d14
 Concen: 38.051 ng
 RT: 12.92 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	11.6	11.0	16.4

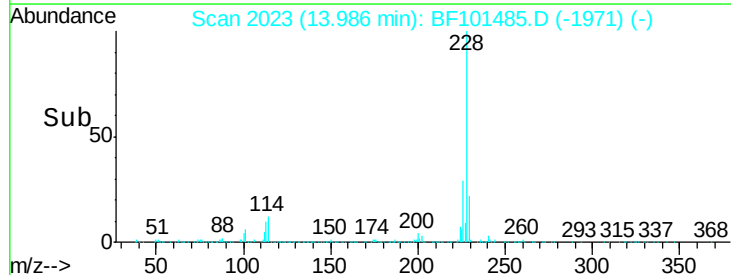
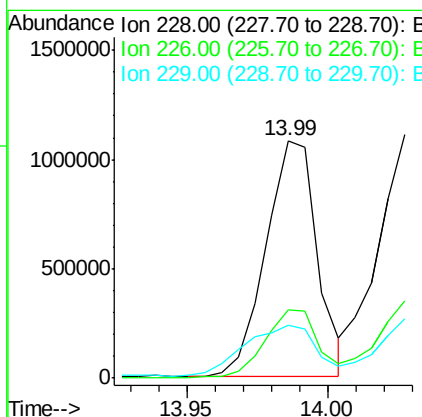
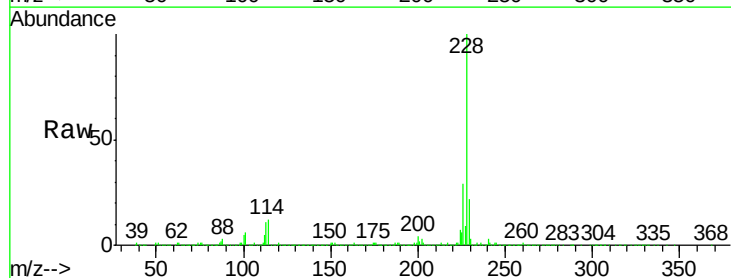
Manual Integrations
 APPROVED

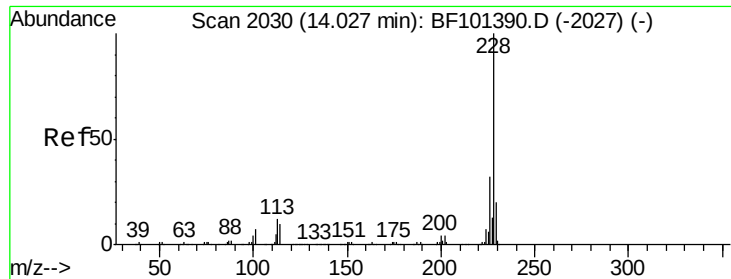
Sohil
 12/19/2017 4:49:51 PM



#80
 Benzo(a)anthracene
 Concen: 76.727 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. 0.01 min
 Lab File: BF101485.D
 Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	22.5	15.8	23.6





#82

Chrysene

Concen: 69.737 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.01 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Instrument :

BNA_F

ClientSampled :

SB-7(13-15)

Tgt Ion:228 Resp: 1172373

Ion Ratio Lower Upper

228 100

226 31.9 25.0 37.6

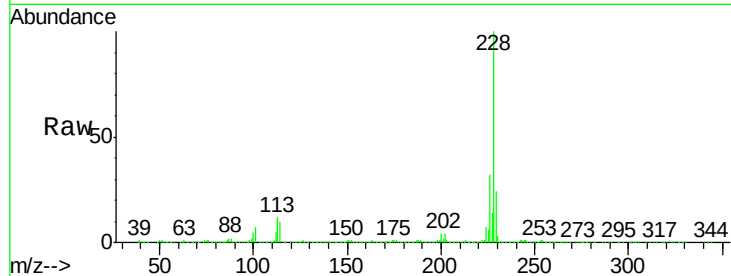
229 24.2 16.2 24.4

Manual Integrations

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Sohil

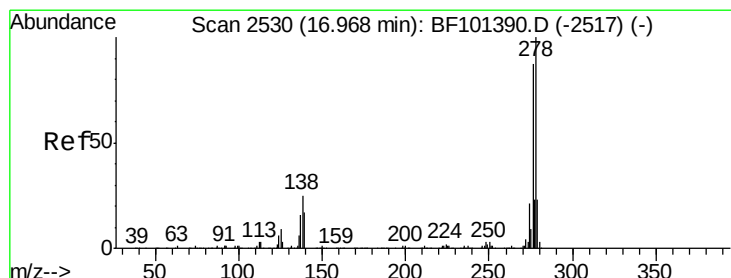
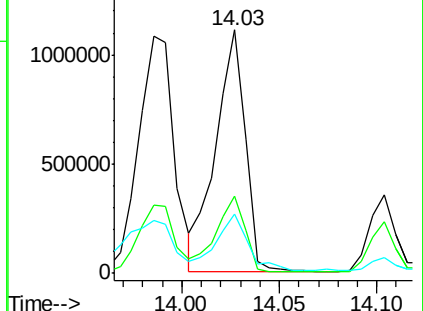
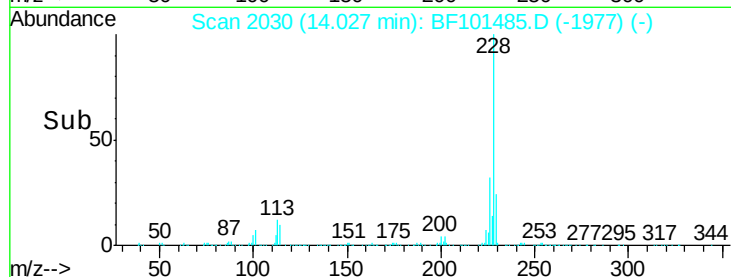
12/19/2017 4:49:51 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 70.792 ng

RT: 16.98 min Scan# 2532

Delta R.T. 0.04 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

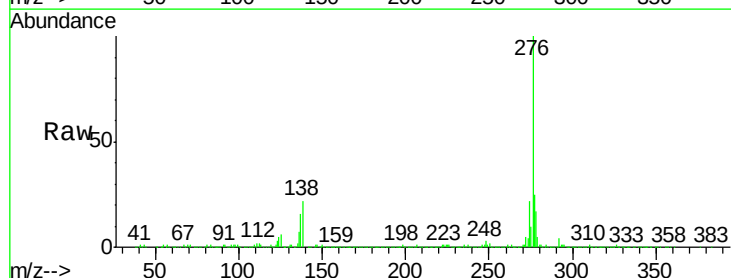
Tgt Ion:276 Resp: 1059789

Ion Ratio Lower Upper

276 100

138 22.8 25.0 37.6#

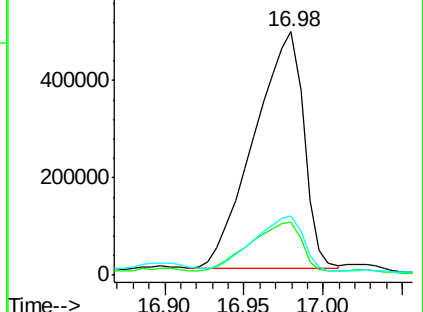
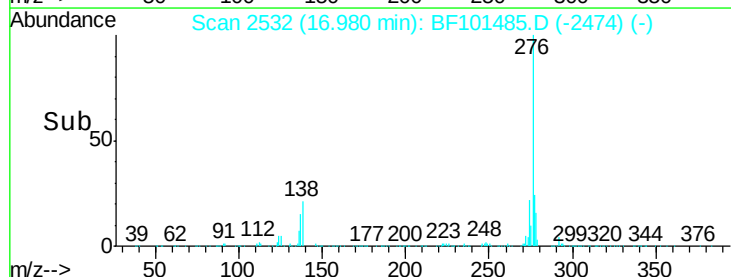
277 23.3 20.1 30.1

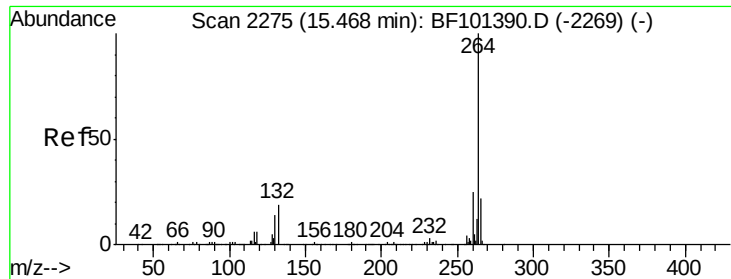


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





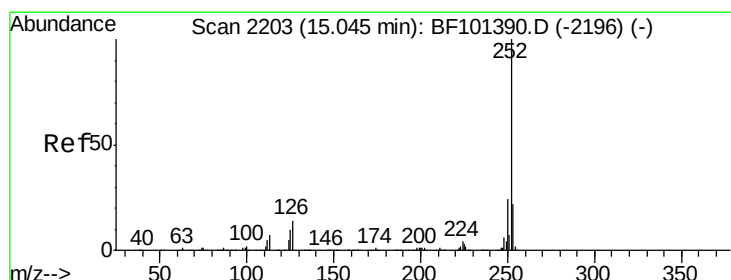
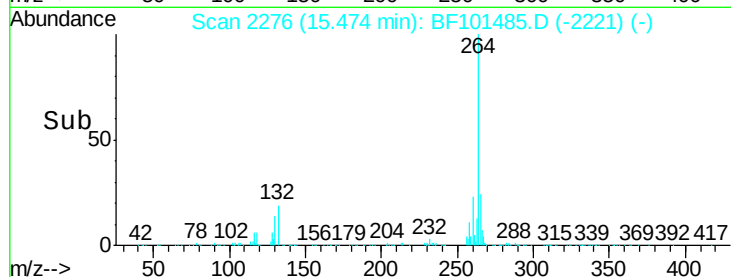
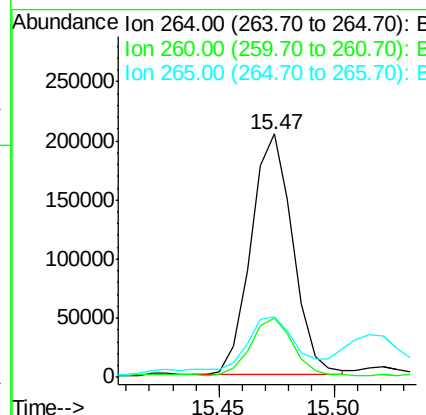
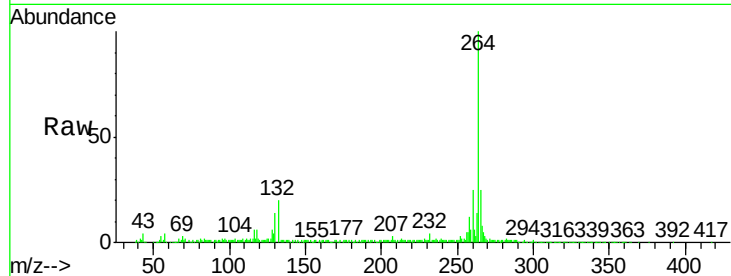
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampled :
SB-7(13-15)

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	254031		
260	24.6	19.2	28.8	
265	25.1	17.5	26.3	

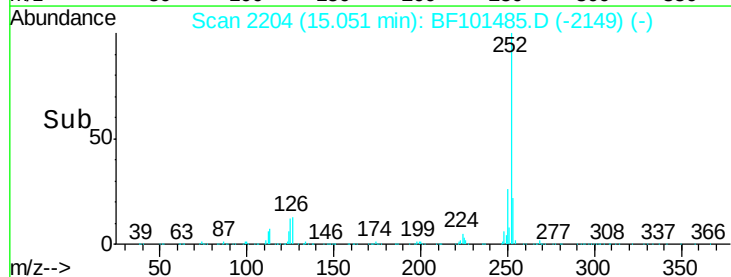
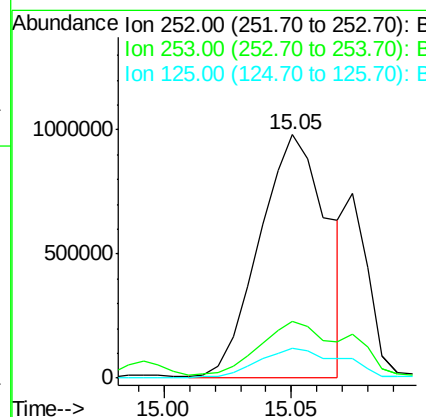
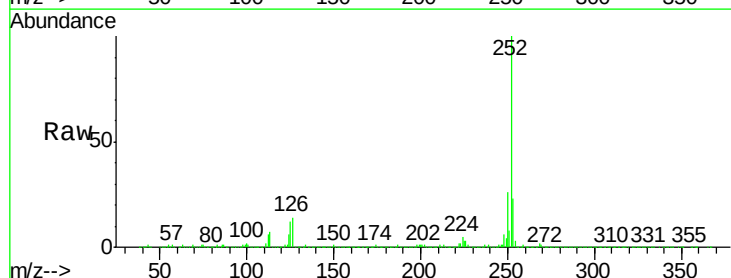
Manual Integrations
APPROVED

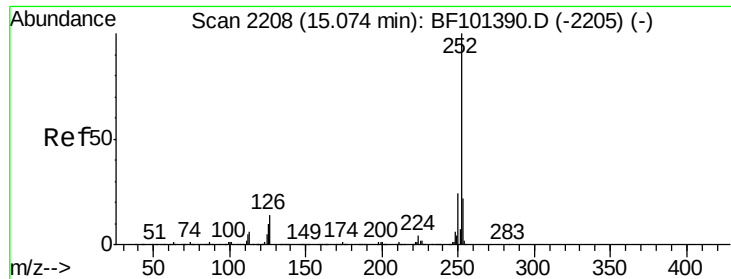
Sohil
12/19/2017 4:49:51 PM



#87
Benzo(b)fluoranthene
Concen: 117.812 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1824171		
253	23.1	17.0	25.6	
125	12.2	9.0	13.6	





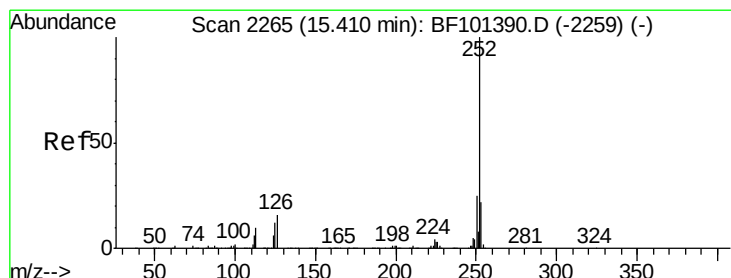
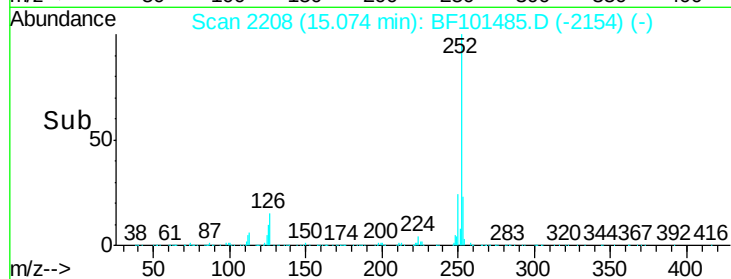
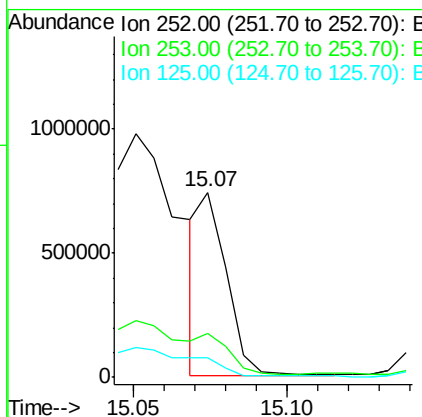
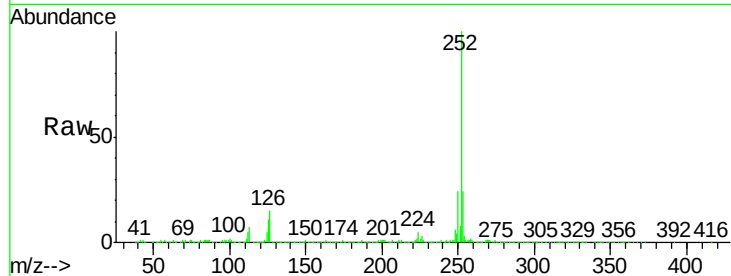
#88
Benzo(k)fluoranthene
Concen: 30.566 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Instrument :
BNA_F
ClientSampled :
SB-7(13-15)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	10.8	10.2	15.2

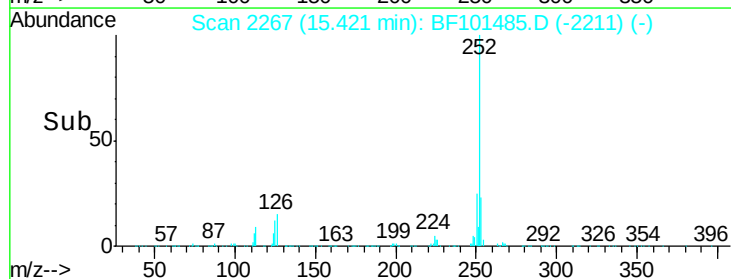
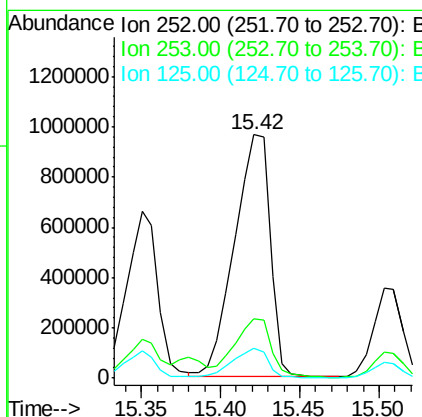
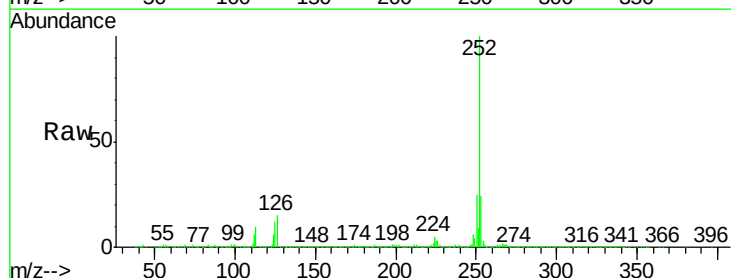
Manual Integrations
APPROVED

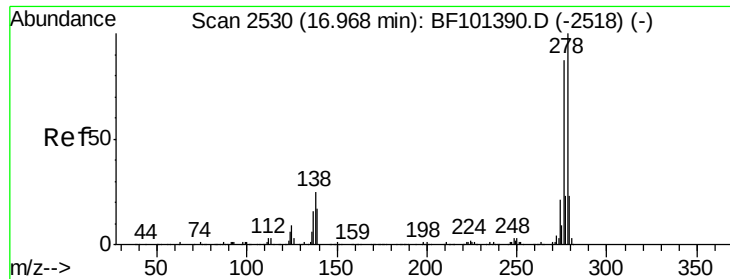
Sohil
12/19/2017 4:49:51 PM



#89
Benzo(a)pyrene
Concen: 105.993 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.03 min
Lab File: BF101485.D
Acq: 18 Dec 2017 17:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	12.2	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 21.112 ng m

RT: 16.97 min Scan# 2530

Delta R.T. 0.03 min

Lab File: BF101485.D

Acq: 18 Dec 2017 17:20

Instrument :

BNA_F

ClientSampleId :

SB-7(13-15)

Tgt Ion:278 Resp: 258738
Ion Ratio Lower Upper

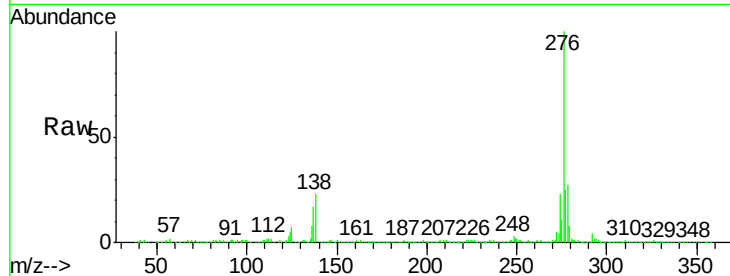
278 100

139 0.0 15.9 23.9#

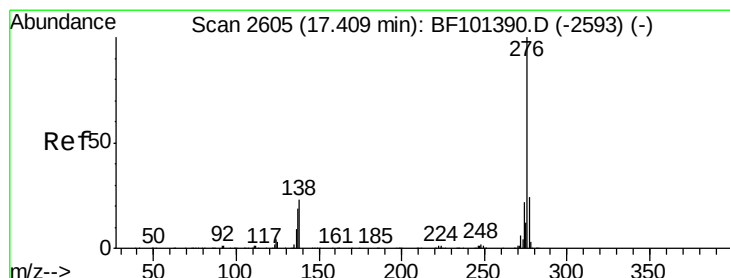
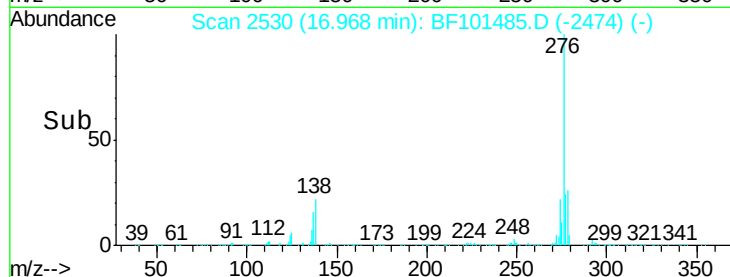
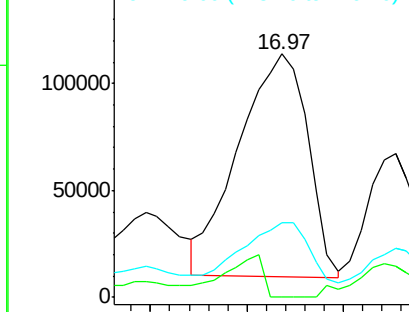
279 30.6 19.0 28.4#

Manual Integrations
APPROVED

Sohil
12/19/2017 4:49:51 PM



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



#91

Benzo(g,h,i)perylene

Concen: 86.581 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.05 min

Lab File: BF101485.D

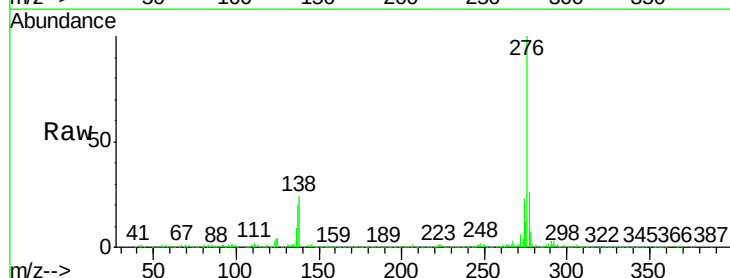
Acq: 18 Dec 2017 17:20

Tgt Ion:276 Resp: 1050684
Ion Ratio Lower Upper

276 100

277 26.2 17.9 26.9

138 24.0 21.8 32.8



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

