

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083457.D
 Acq On : 3 Dec 2015 11:58
 Operator : UM/IZ
 Sample : G4584-08
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)

Manual Integrations
 APPROVED

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 12/3/2015 7:10:17 PM

Quant Time: Dec 03 12:34:32 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	131344m	20.00	ng	0.00
21) Naphthalene-d8	7.86	136	367923	20.00	ng	0.02
38) Acenaphthene-d10	9.58	164	228553	20.00	ng	0.00
63) Phenanthrene-d10	11.14	188	314924	20.00	ng	0.01
75) Chrysene-d12	14.76	240	274787	20.00	ng	0.00
86) Perylene-d12	16.82	264	256232	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1071218	122.38	ng	0.00
7) Phenol-d6	6.21	99	1511696	126.18	ng	-0.01
23) Nitrobenzene-d5	7.12	82	936575	111.90	ng	-0.01
41) 2,4,6-Tribromophenol	10.37	330	217042	94.60	ng	-0.01
44) 2-Fluorobiphenyl	8.91	172	1203407	75.03	ng	-0.01
78) Terphenyl-d14	13.21	244	933823	81.05	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.90	128	18306832	917.05	ng	# 83
37) 2-Methylnaphthalene	8.56	142	4422276	331.47	ng	# 94
45) 1,1'-Biphenyl	9.01	154	1946619	97.13	ng	94
48) Acenaphthylene	9.45	152	2204636	90.50	ng	96
49) Dimethylphthalate	9.32	163	308182	16.59	ng	98
51) Acenaphthene	9.63	154	4253339	296.82	ng	97
54) Dibenzofuran	9.79	168	621228	29.58	ng	# 87
57) Fluorene	10.13	166	3342591	201.58	ng	99
70) Phenanthrene	11.20	178	12145090m	651.67	ng	
71) Anthracene	11.24	178	3452988	184.04	ng	95
72) Carbazole	11.40	167	156476	9.28	ng	# 91
74) Fluoranthene	12.69	202	7133537	369.26	ng	96
77) Pvrene	13.01	202	9775224m	509.38	ng	
80) Benzo(a)anthracene	14.75	228	3976294m	236.19	ng	
82) Chrysene	14.81	228	3458229	212.61	ng	96
83) Bis(2-ethylhexyl)phthalate	14.85	149	26413	2.42	ng	# 96
85) Indeno(1,2,3-cd)pvrene	18.21	276	1599902m	135.06	ng	
87) Benzo(b)fluoranthene	16.33	252	3250884m	197.73	ng	
88) Benzo(k)fluoranthene	16.34	252	1150560m	74.11	ng	
89) Benzo(a)pvrene	16.77	252	3379426	239.31	ng	# 96
90) Dibenzo(a,h)anthracene	18.23	278	315530m	25.64	ng	
91) Benzo(g,h,i)perylene	18.60	276	1664256	137.81	ng	98

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

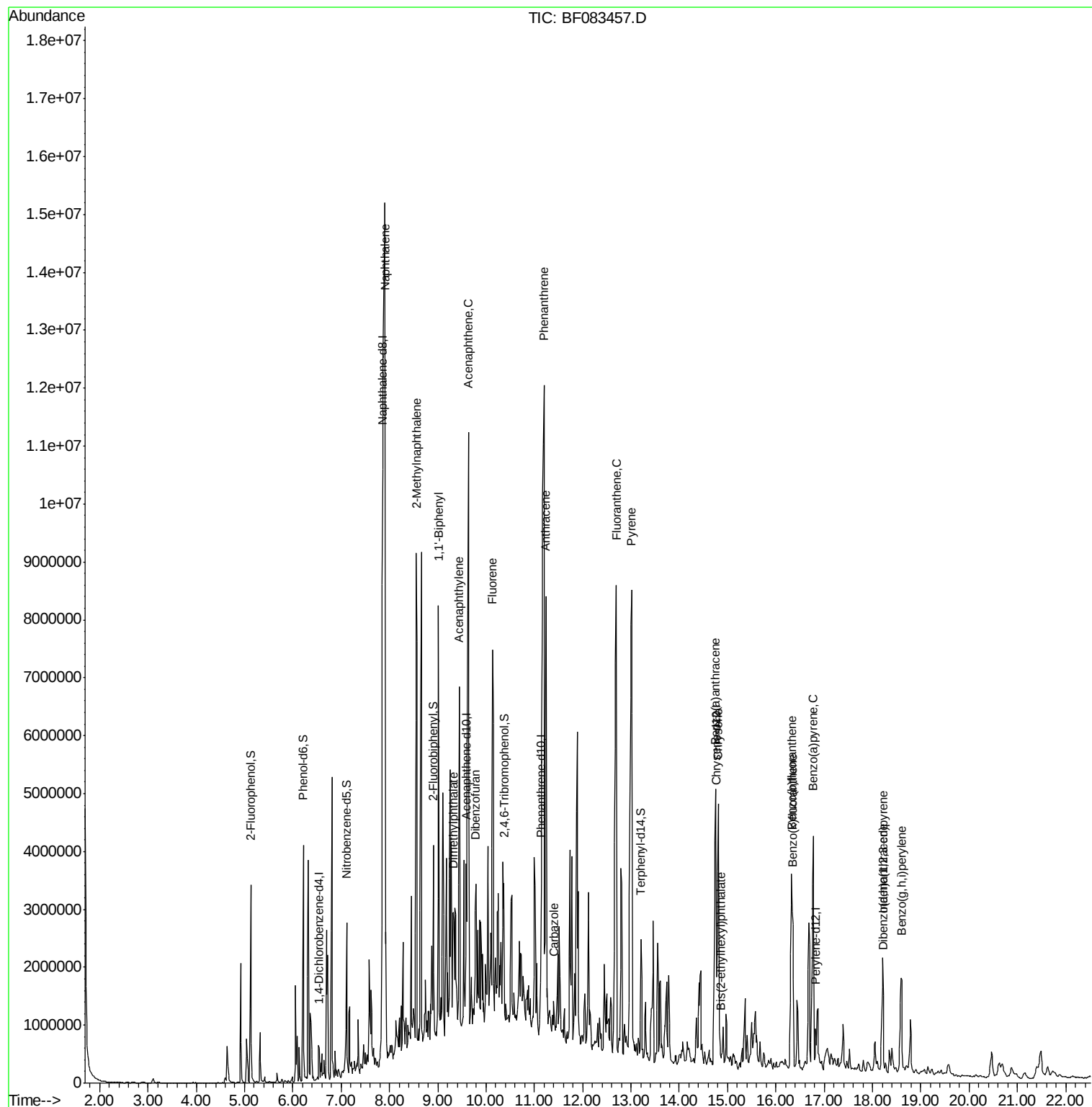
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
Data File : BF083457.D
Acq On : 3 Dec 2015 11:58
Operator : UM/IZ
Sample : G4584-08
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Manual Integrations
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Quant Time: Dec 03 12:34:32 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 01 01:17:16 2015
Response via : Initial Calibration





#1

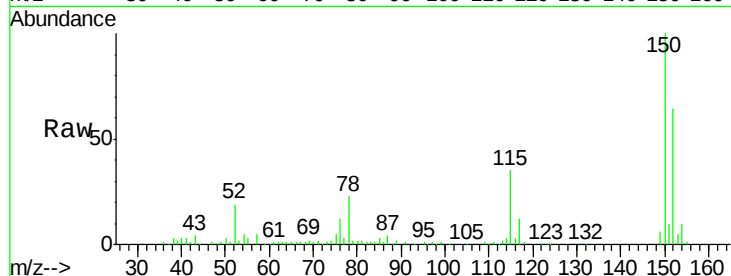
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.54 min Scan# 425
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	129.8	194.8
115	55.1	59.2	88.8

Manual Integrations
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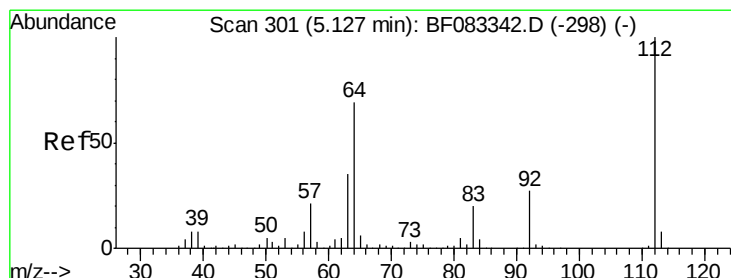
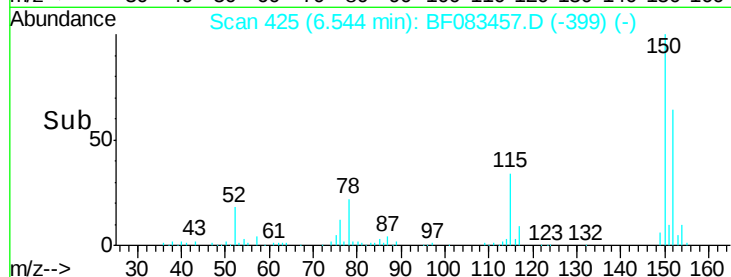
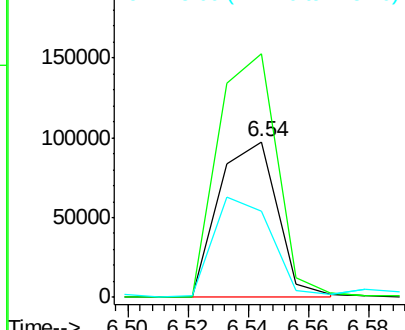


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

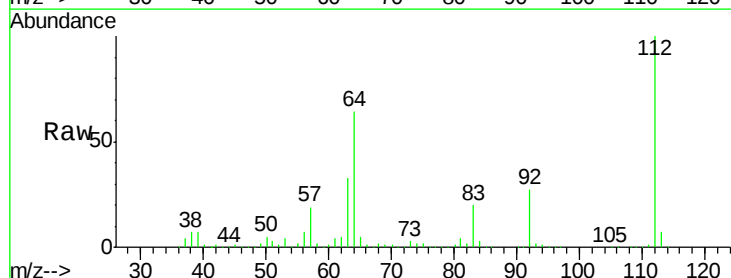
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 122.38 ng
RT: 5.13 min Scan# 301
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.7	55.6	83.4
63	32.6	28.2	42.2

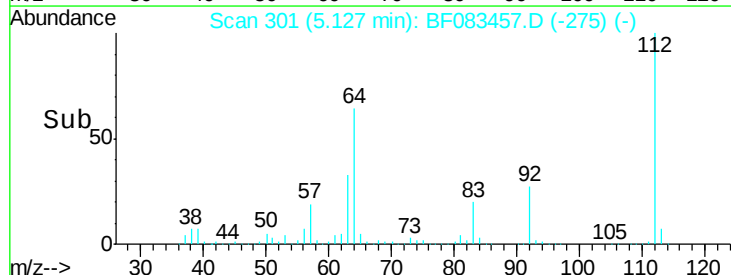
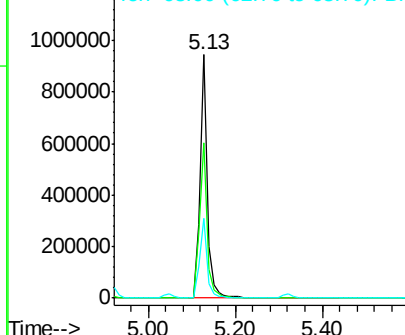


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 126.18 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-15(0-8)

Tot Ion: 99 Resp: 1511696

Ion Ratio Lower Upper

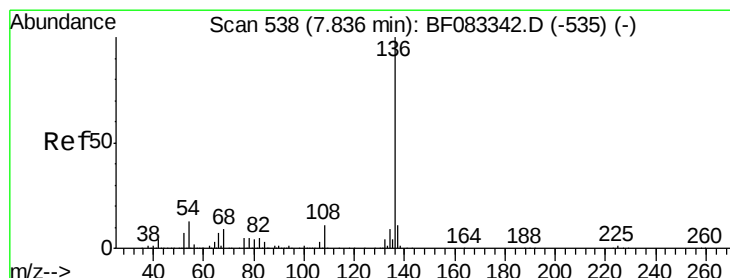
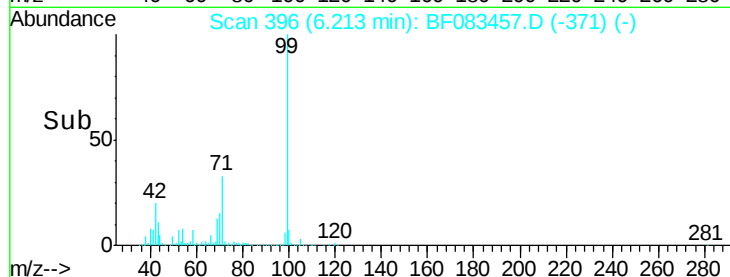
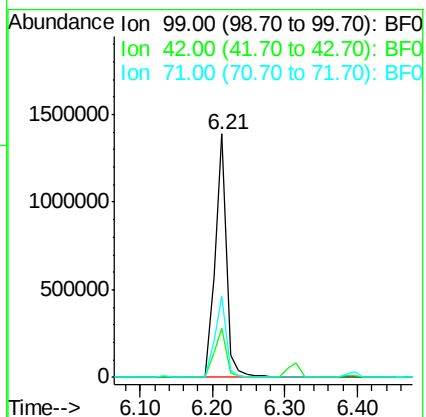
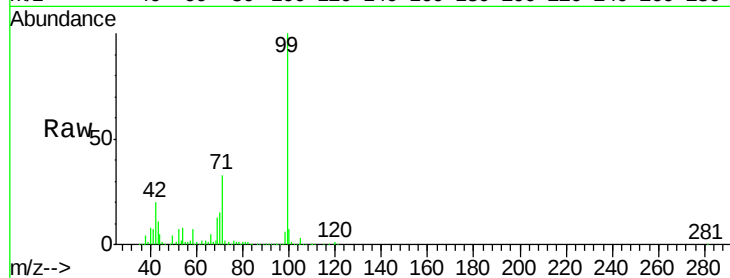
99 100

42 20.1 14.9 22.3

71 33.5 24.7 37.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.86 min Scan# 540

Delta R.T. 0.02 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Tgt Ion: 136 Resp: 367923

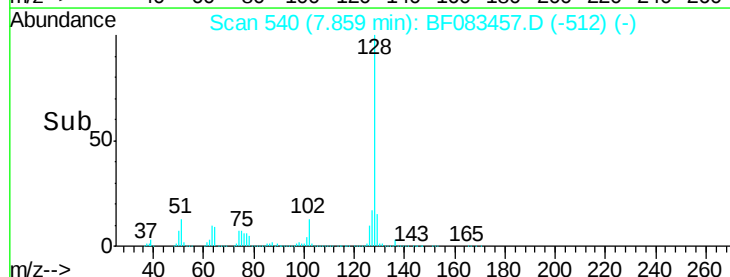
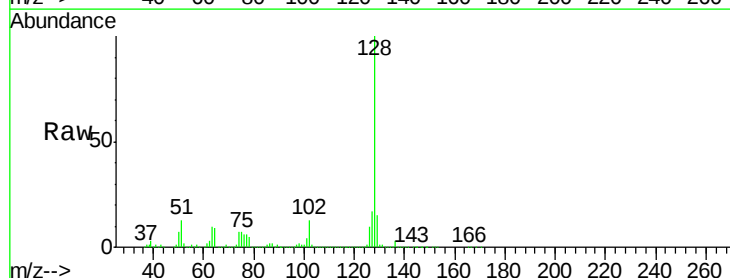
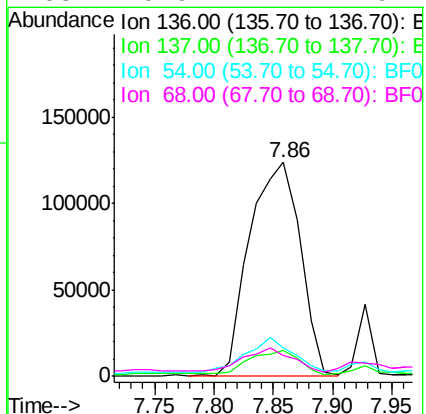
Ion Ratio Lower Upper

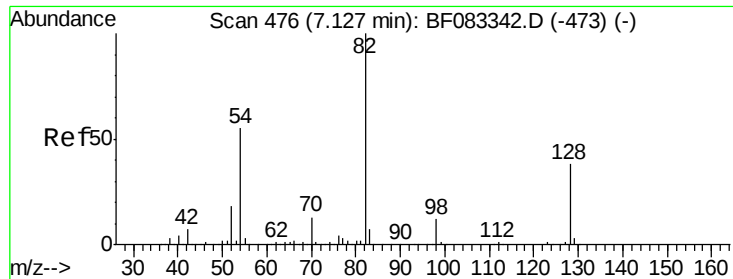
136 100

137 11.8 9.0 13.4

54 13.0 10.1 15.1

68 9.9 7.1 10.7





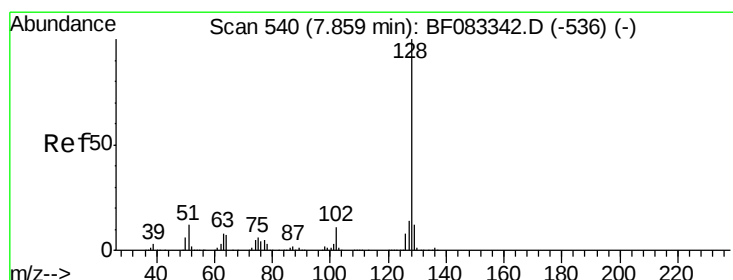
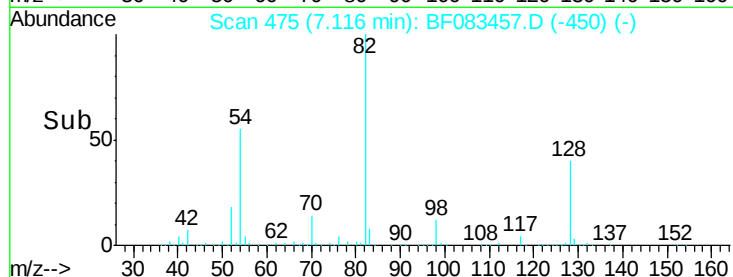
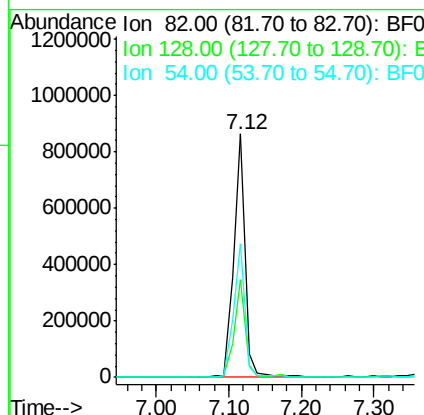
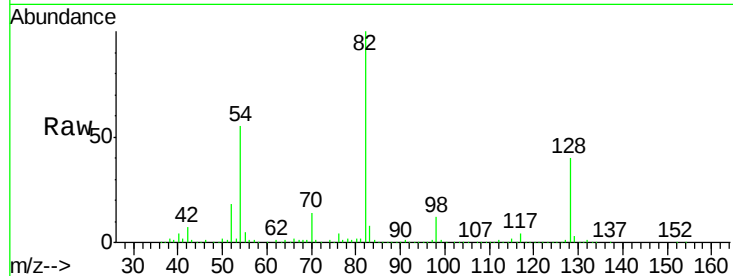
#23
Nitrobenzene-d5
Concen: 111.90 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	82	Resp	936575
Ion Ratio	Lower	Upper	
82	100		
128	39.9	30.6	46.0
54	55.0	43.8	65.6

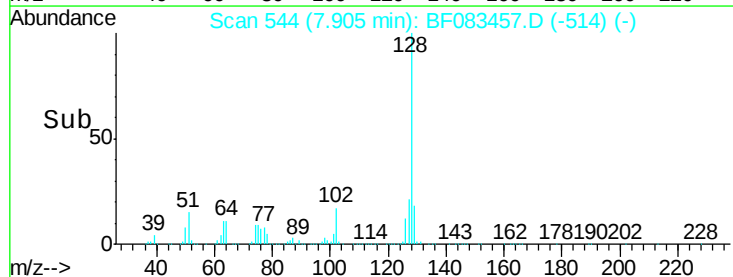
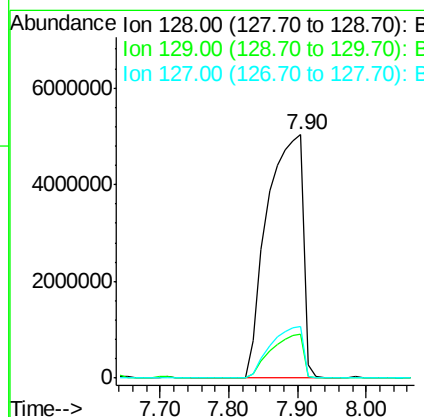
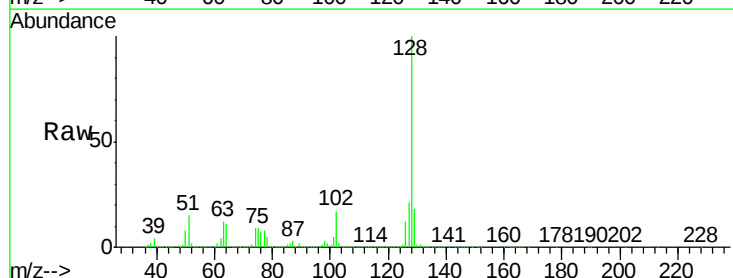
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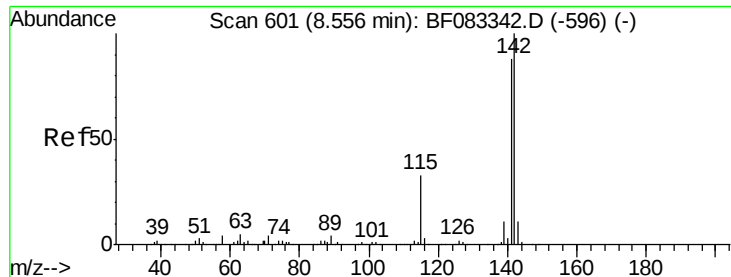
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#31
Naphthalene
Concen: 917.05 ng
RT: 7.90 min Scan# 544
Delta R.T. 0.05 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	128	Resp	18306832
Ion Ratio	Lower	Upper	
128	100		
129	17.9	9.7	14.5#
127	21.4	11.0	16.4#





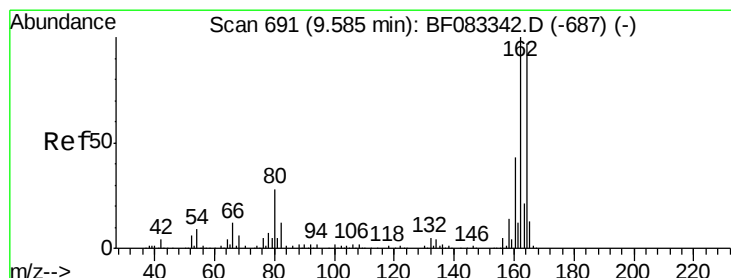
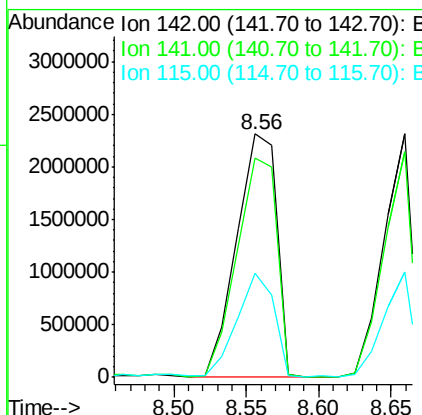
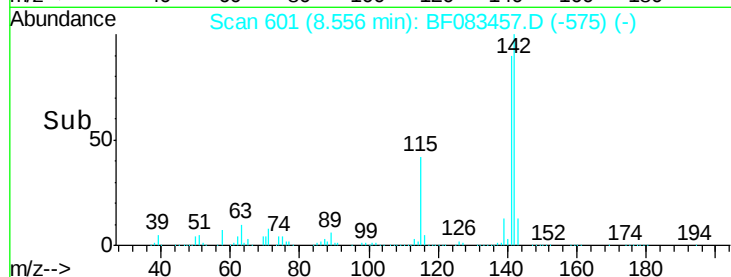
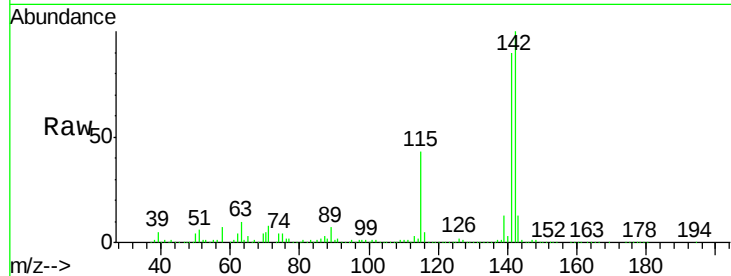
#37
2-Methylnaphthalene
Concen: 331.47 ng
RT: 8.56 min Scan# 601
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Manual Integrations
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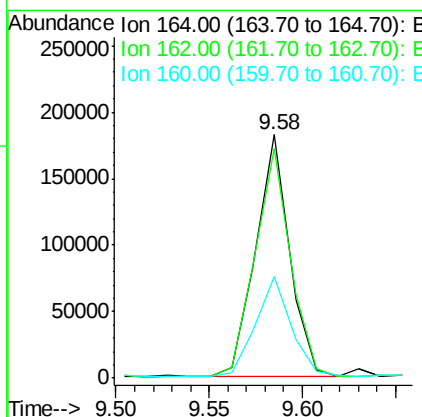
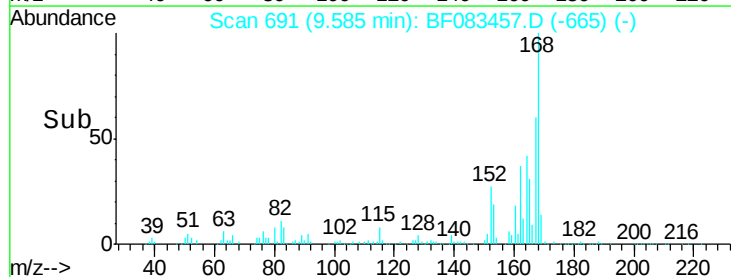
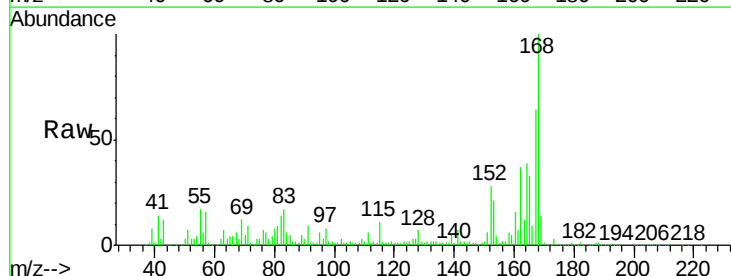
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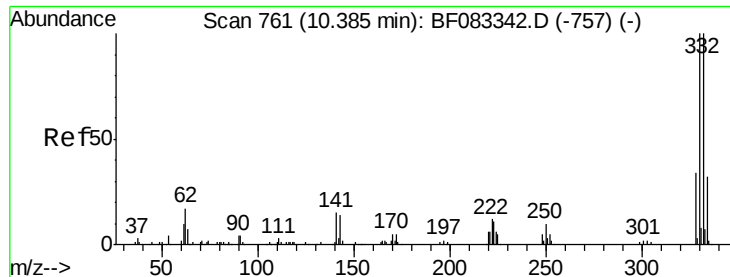
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.6	105.8
115	42.7	26.2	39.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.58 min Scan# 691
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	94.4	82.6	123.8
160	41.7	35.3	52.9





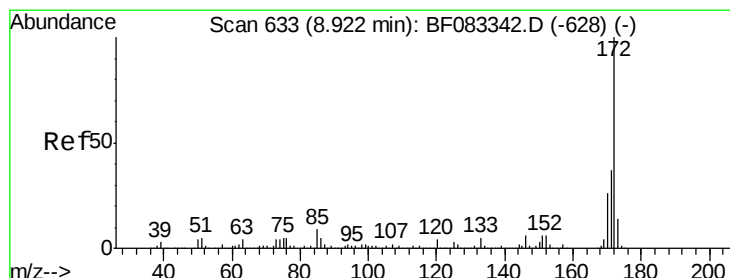
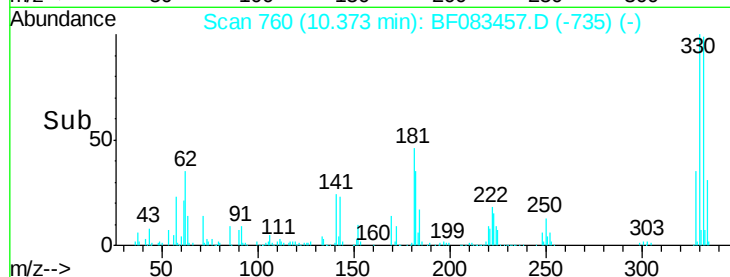
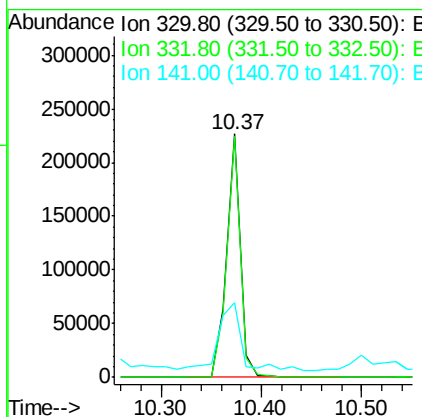
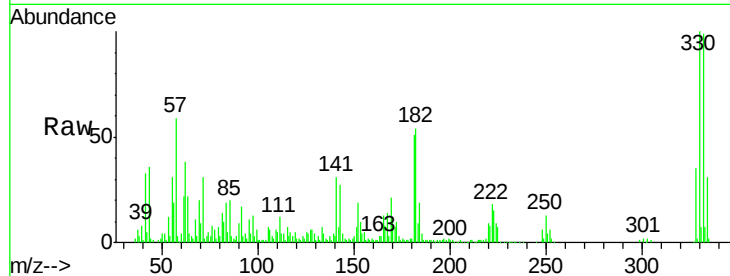
#41
 2,4,6-Tribromophenol
 Concen: 94.60 ng
 RT: 10.37 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF083457.D
 Acq: 3 Dec 2015 11:58

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-15(0-8)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.8	116.6
141	40.6	29.4	44.0

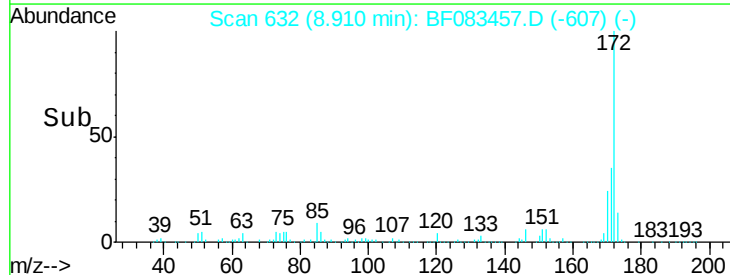
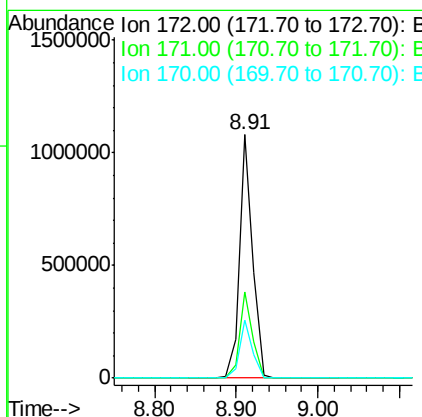
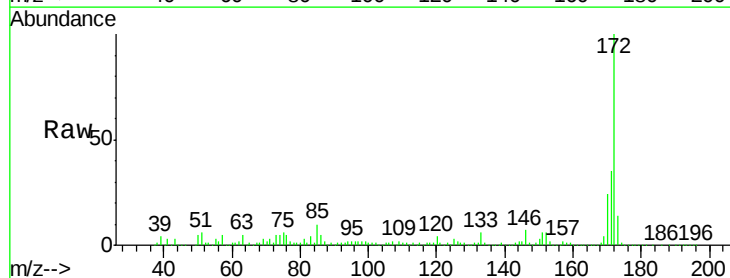
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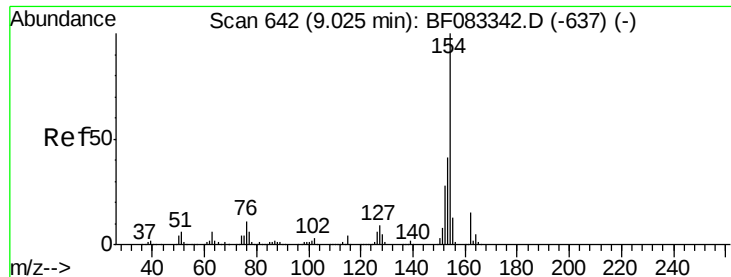
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#44
 2-Fluorobiphenyl
 Concen: 75.03 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083457.D
 Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.4	44.0
170	23.7	20.4	30.6





#45

1,1'-Biphenyl

Concen: 97.13 ng

RT: 9.01 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-15(0-8)

Tot Ion:154 Resp: 1946619

Ion Ratio Lower Upper

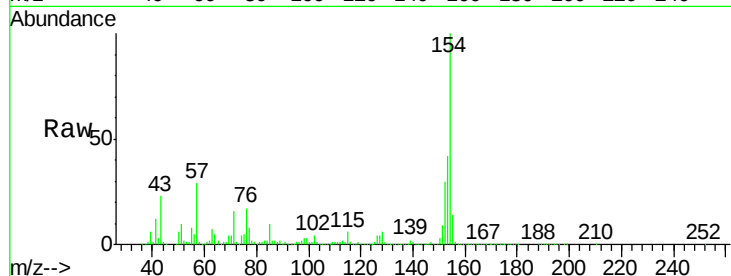
154 100

153 42.1 20.6 60.6

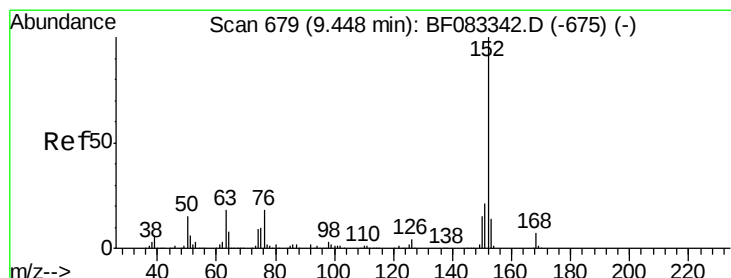
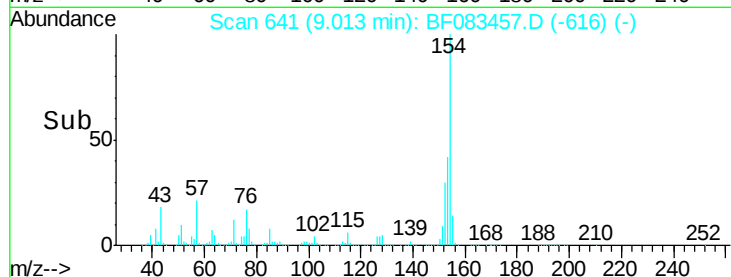
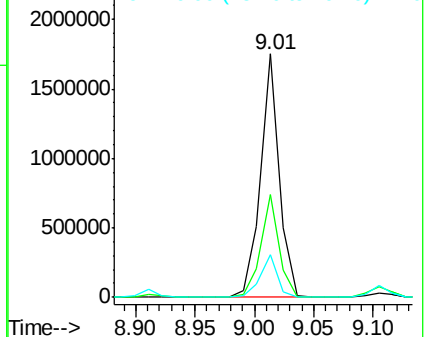
76 17.5 0.0 30.5

Manual Integrations
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12/3/2015 7:10:17 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 90.50 ng

RT: 9.45 min Scan# 679

Delta R.T. 0.00 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

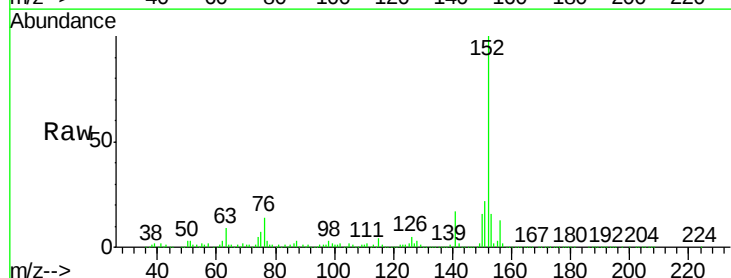
Tgt Ion:152 Resp: 2204636

Ion Ratio Lower Upper

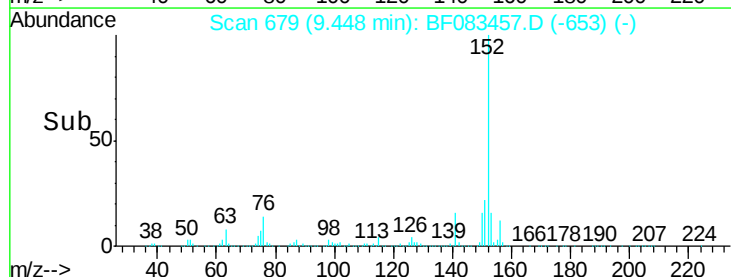
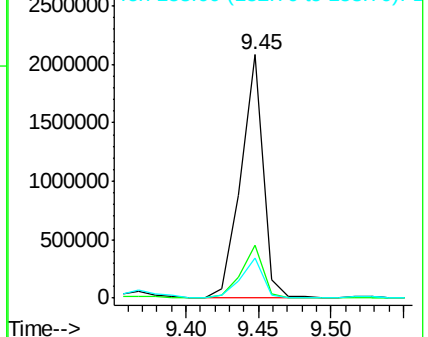
152 100

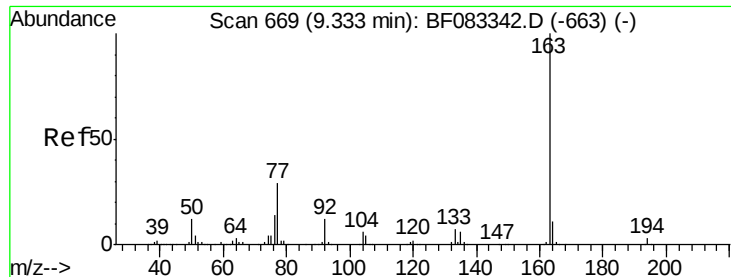
151 21.9 16.7 25.1

153 16.5 11.2 16.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





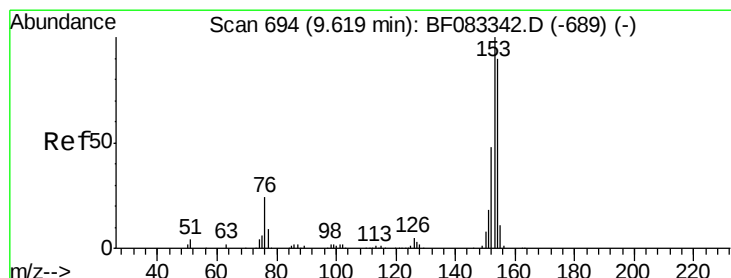
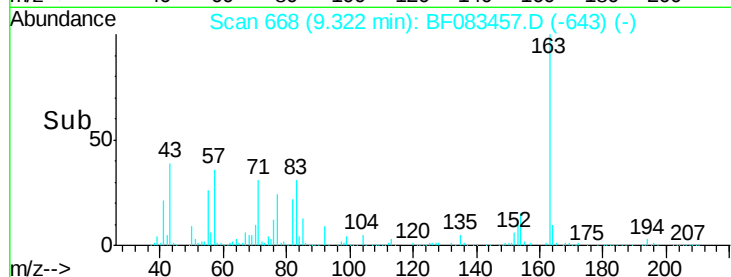
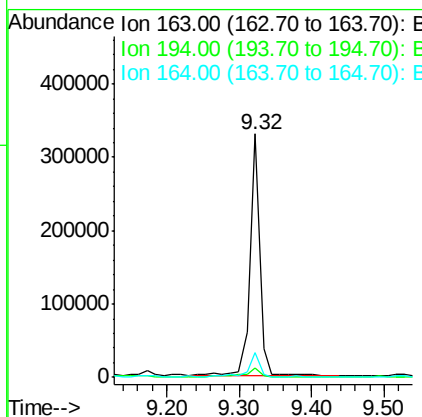
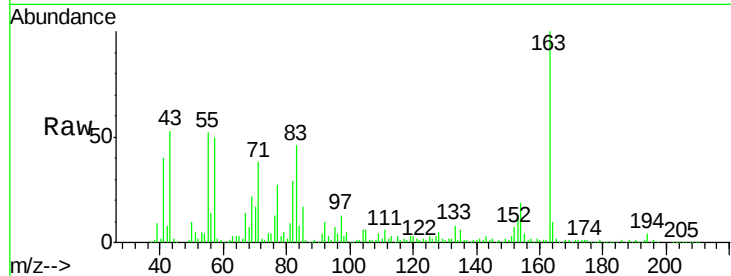
#49
Dimethylphthalate
Concen: 16.59 ng
RT: 9.32 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	308182		
194	3.6		2.7	4.1
164	10.2		8.8	13.2

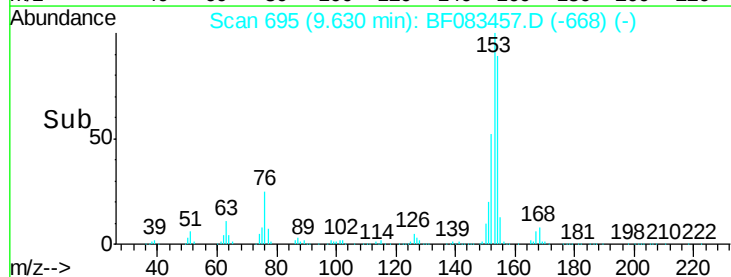
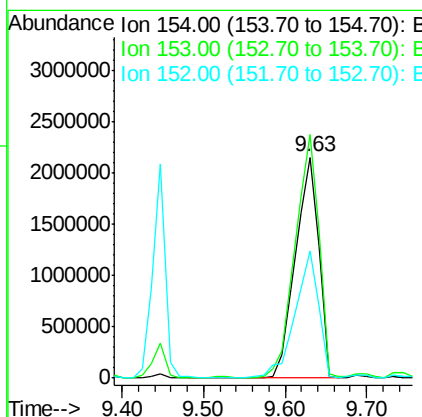
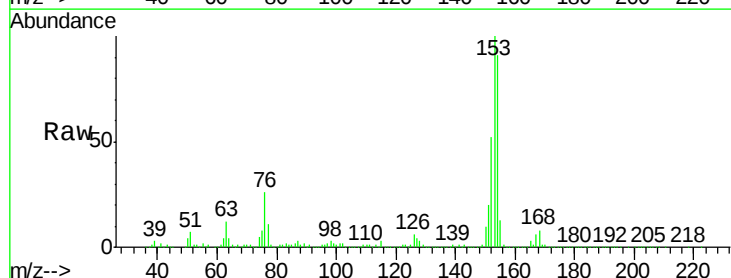
Manual Integrations
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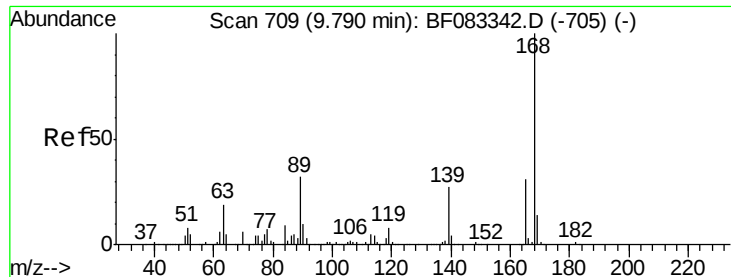
Mmdadoda
12/3/2015 7:10:17 PM



#51
Acenaphthene
Concen: 296.82 ng
RT: 9.63 min Scan# 695
Delta R.T. 0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	4253339		
153	110.4		89.3	133.9
152	57.9		42.5	63.7





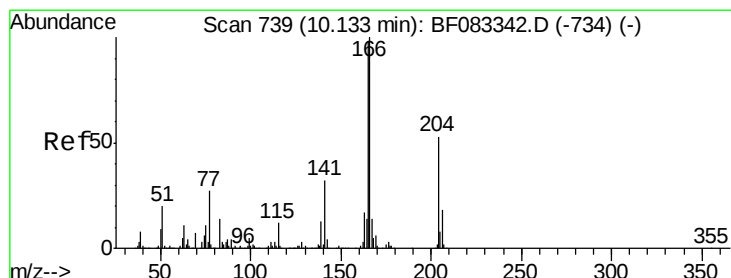
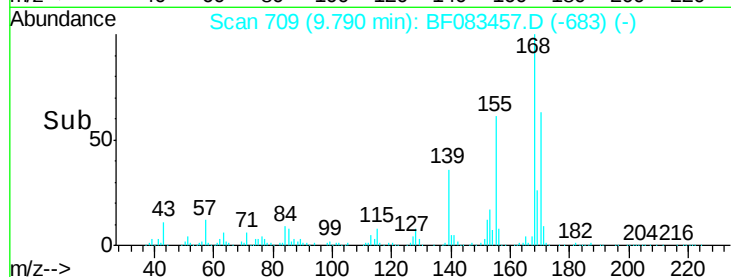
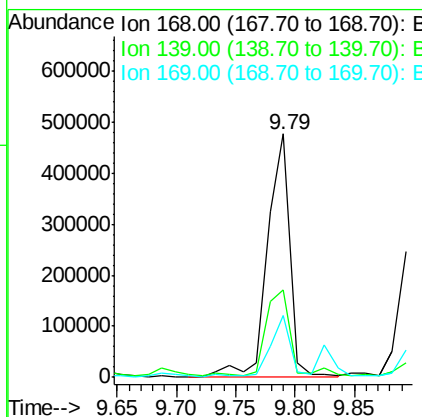
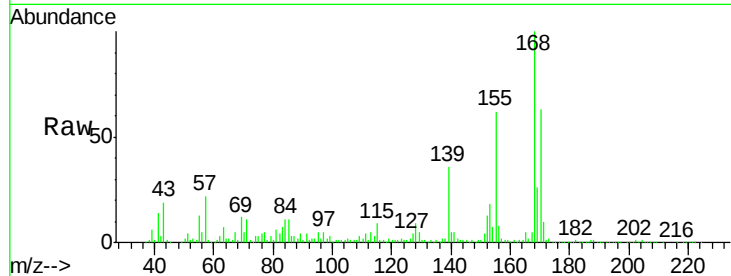
#54
Dibenzenofuran
Concen: 29.58 ng
RT: 9.79 min Scan# 709
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.9	32.7	49.1
169	25.6	11.1	16.7#

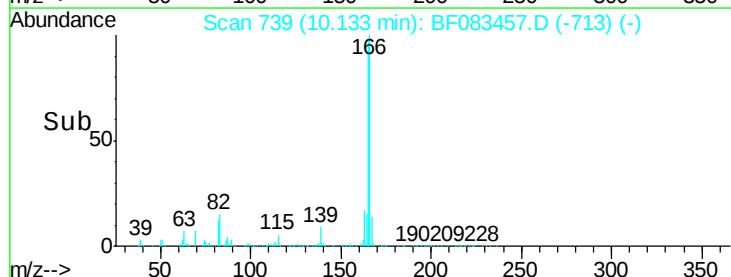
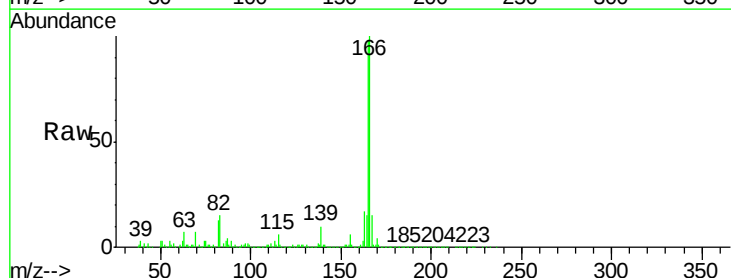
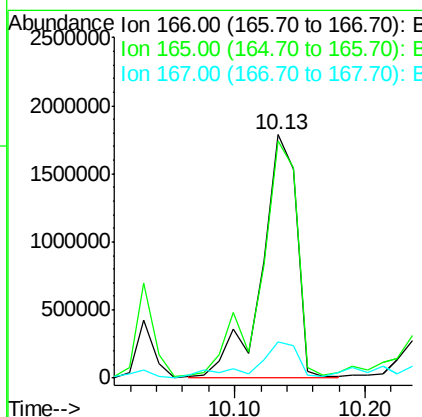
Manual Integrations
APPROVED

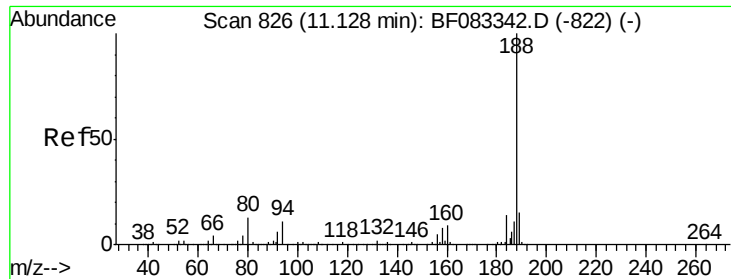
Mmdadoda
12/3/2015 7:10:17 PM



#57
Fluorene
Concen: 201.58 ng
RT: 10.13 min Scan# 739
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.3	117.5
167	14.9	11.1	16.7





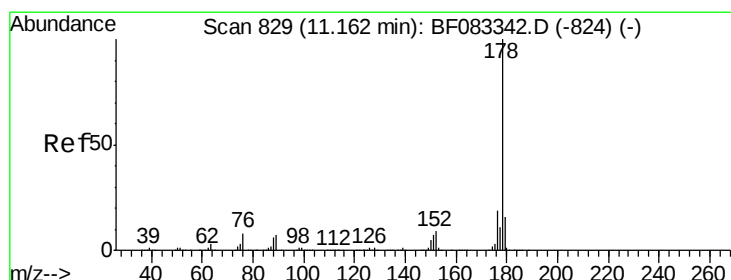
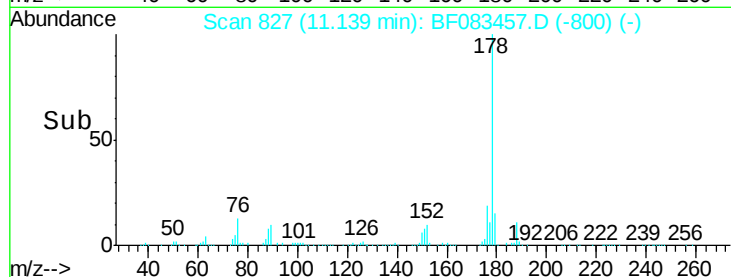
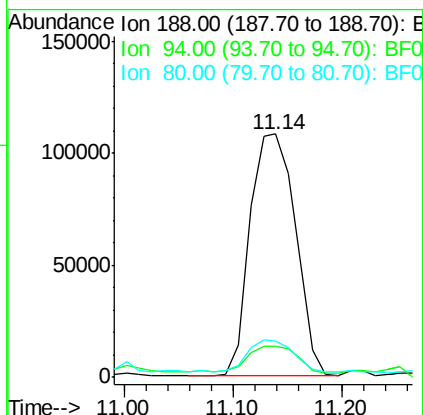
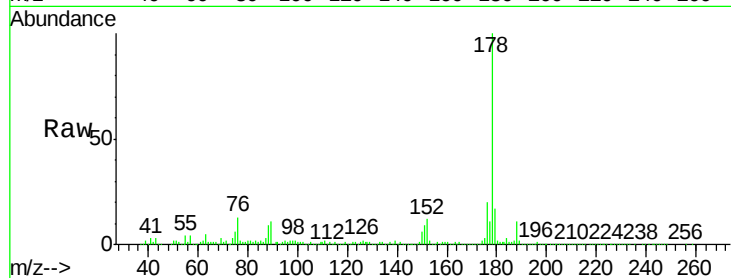
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.14 min Scan# 827
Delta R.T. 0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	314924		
94	12.9		8.7	13.1
80	15.1		10.3	15.5

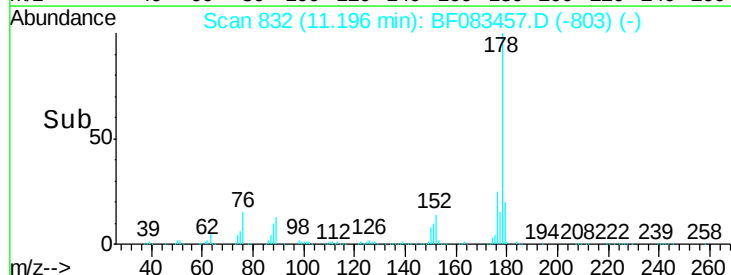
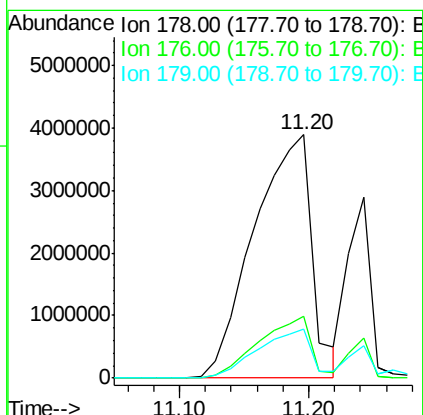
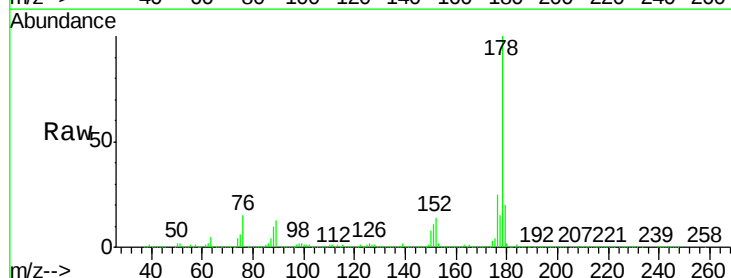
Manual Integrations
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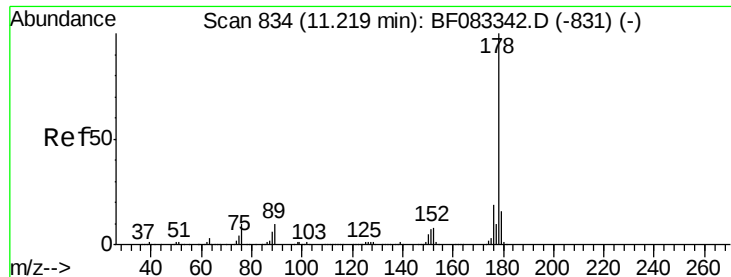
Mmdadoda
12/3/2015 7:10:17 PM



#70
Phenanthrene
Concen: 651.67 ng m
RT: 11.20 min Scan# 832
Delta R.T. 0.03 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	12145090		
176	25.4		15.3	22.9#
179	20.2		12.4	18.6#





#71

Anthracene

Concen: 184.04 ng

RT: 11.24 min Scan# 836

Delta R.T. 0.02 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-15(0-8)

Tot Ion:178 Resp: 3452988

Ion Ratio Lower Upper

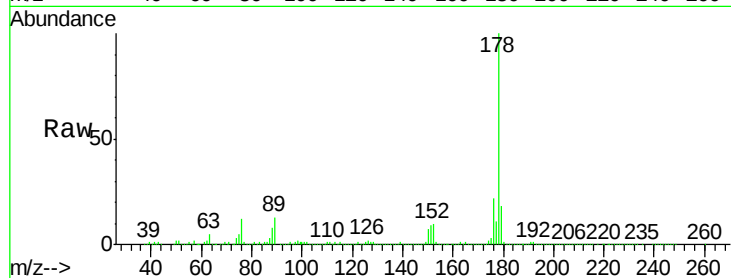
178 100

176 22.0 15.6 23.4

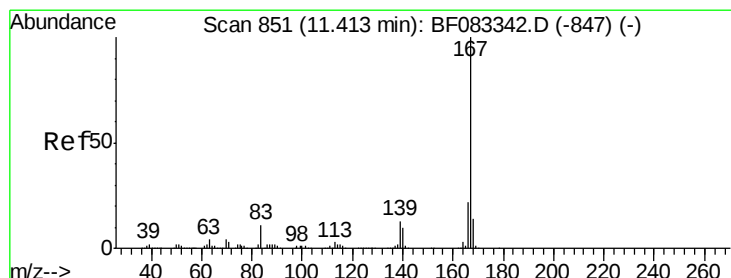
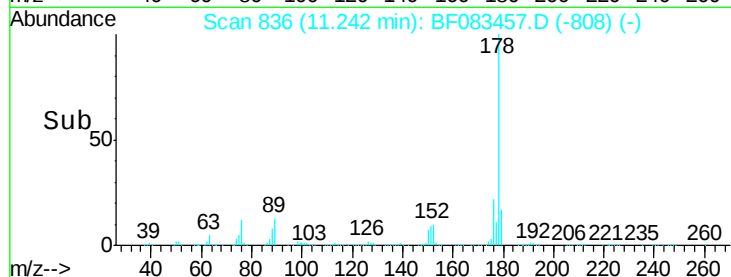
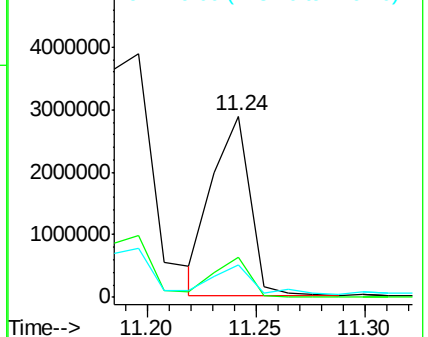
179 17.7 12.8 19.2

Manual Integrations
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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: 9.28 ng

RT: 11.40 min Scan# 850

Delta R.T. -0.01 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

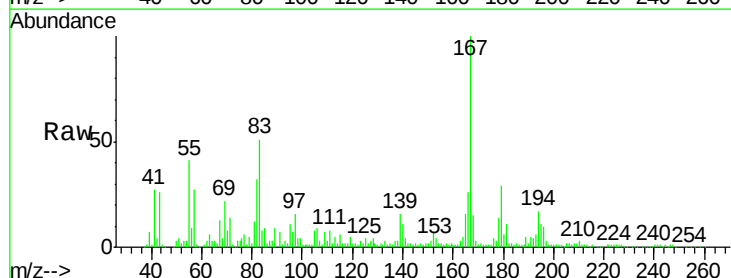
Tgt Ion:167 Resp: 156476

Ion Ratio Lower Upper

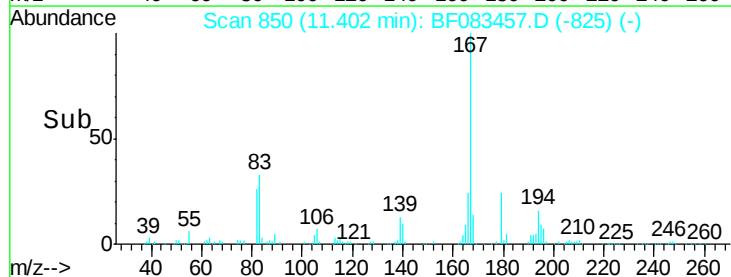
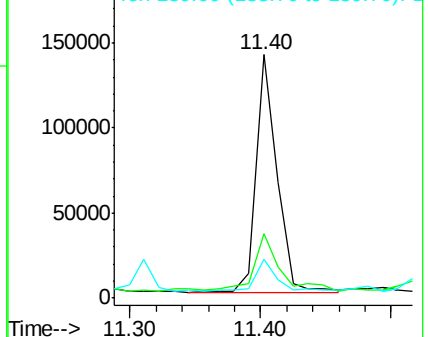
167 100

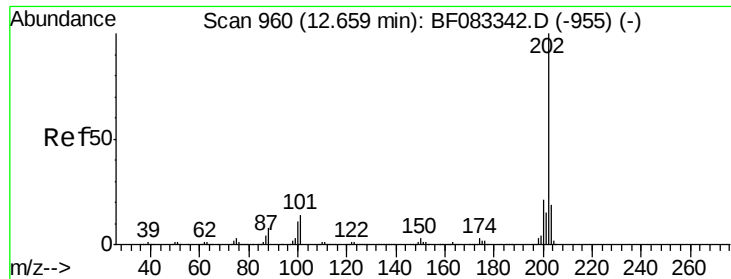
166 26.4 17.4 26.0#

139 15.7 10.5 15.7#



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: 369.26 ng

RT: 12.69 min Scan# 963

Delta R.T. 0.03 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Instrument :

BNA_F

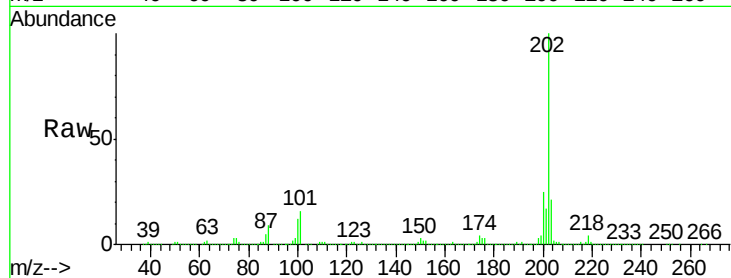
ClientSampleId :

SB-P3WC-15(0-8)

Tot Ion:	202	Resp:	7133537
Ion	Ratio	Lower	Upper
202	100		
101	16.2	0.0	34.5
203	20.8	0.0	38.7

Manual Integrations
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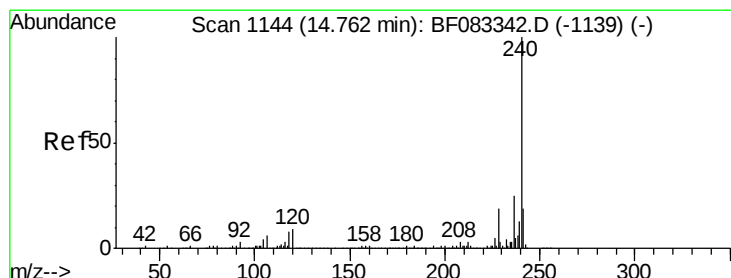
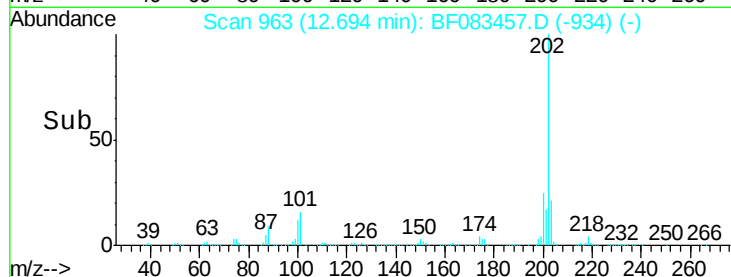
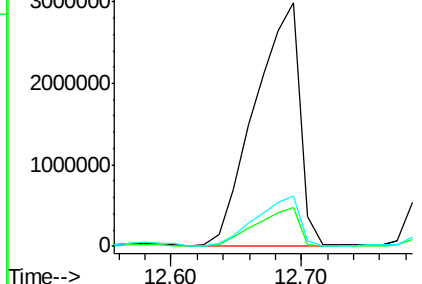
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

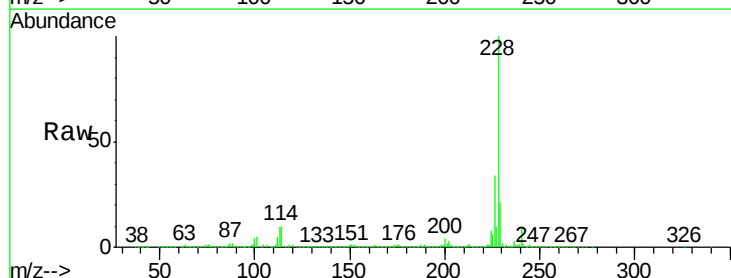
RT: 14.76 min Scan# 1144

Delta R.T. 0.00 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

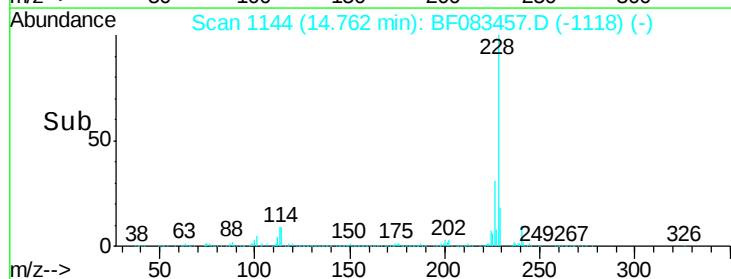
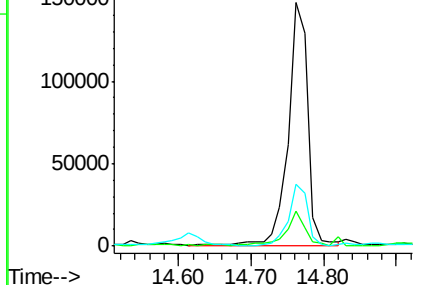
Tgt Ion:	240	Resp:	274787
Ion	Ratio	Lower	Upper
240	100		
120	14.4	6.9	10.3#
236	25.6	19.8	29.6

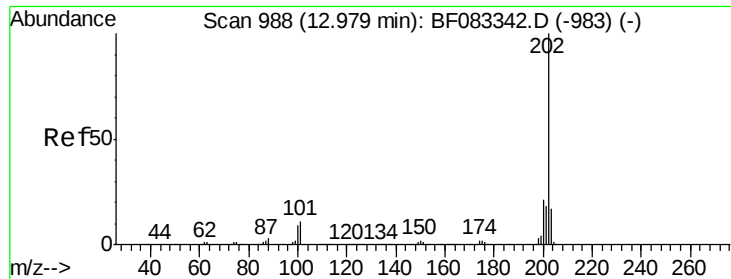


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 509.38 ng/mL

RT: 13.01 min Scan# 991

Delta R.T. 0.03 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Instrument :

BNA_F

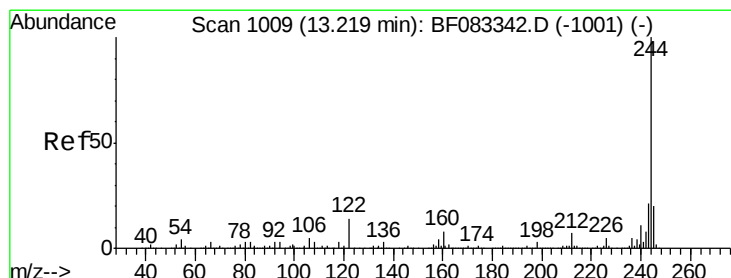
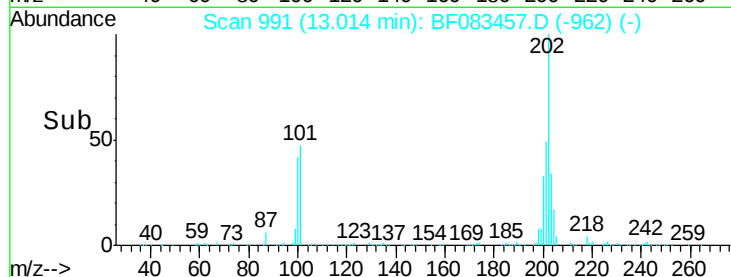
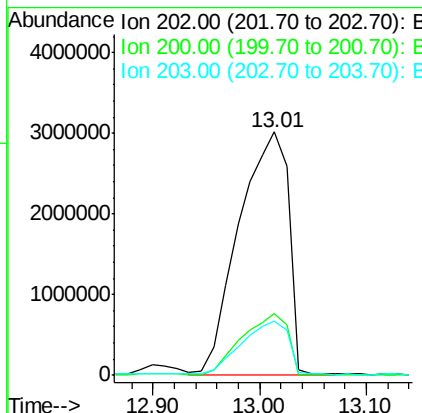
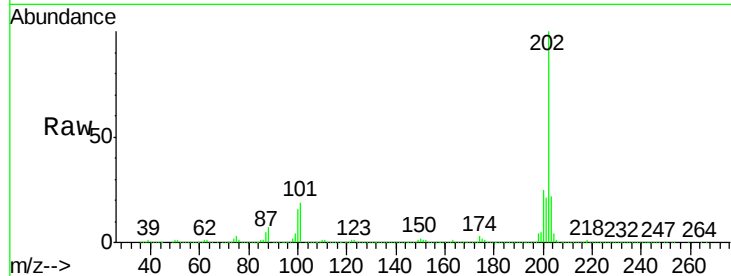
ClientSampleId :

SB-P3WC-15(0-8)

Tot Ion:	202	Resp:	9775224
Ion Ratio	Lower	Upper	
202	100		
200	25.2	16.9	25.3
203	22.0	13.9	20.9

Manual Integrations
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#78

Terphenyl-d14

Concen: 81.05 ng

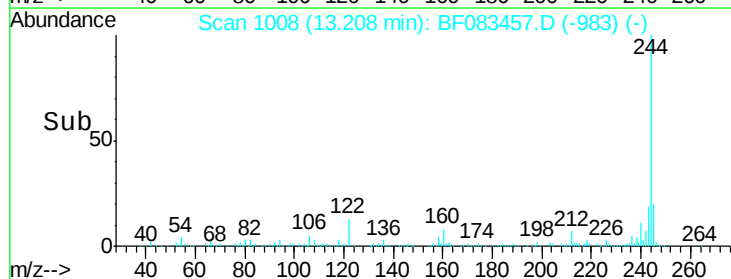
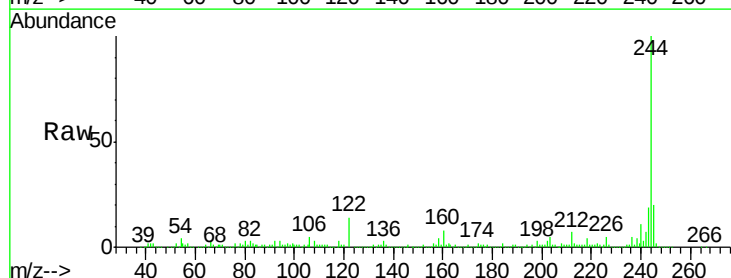
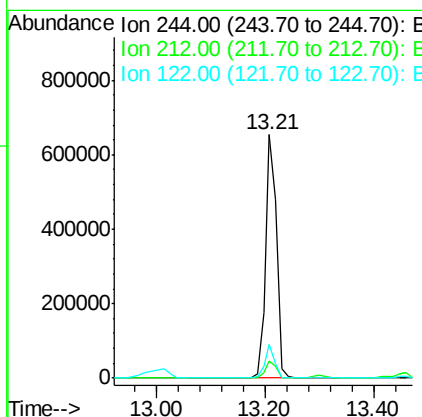
RT: 13.21 min Scan# 1008

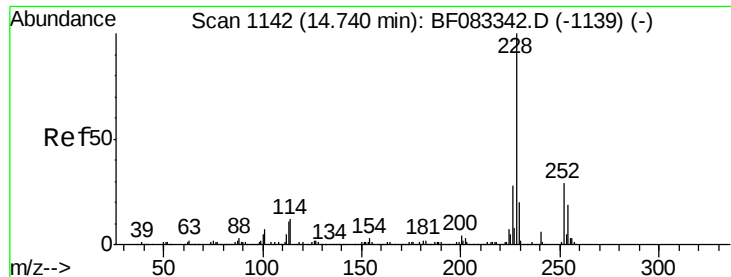
Delta R.T. -0.01 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Tgt Ion:	244	Resp:	933823
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.8	8.8
122	13.6	11.0	16.4





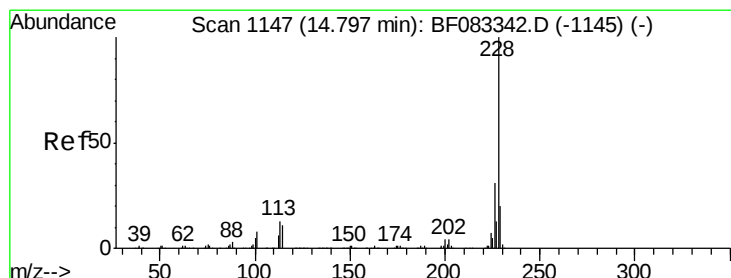
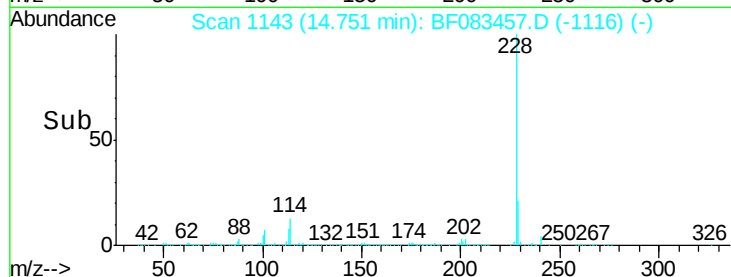
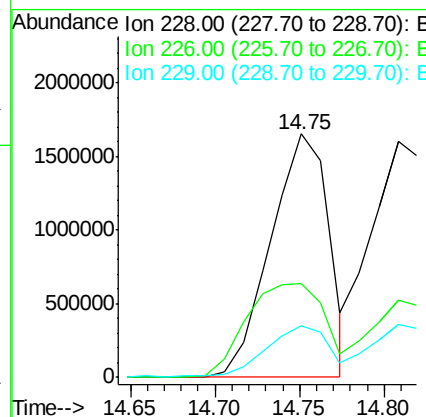
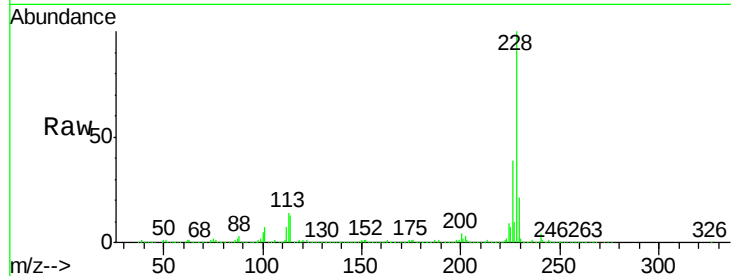
#80
Benzo(a)anthracene
Concen: 236.19 ng/mL
RT: 14.75 min Scan# 1143
Delta R.T. 0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion: 228 Resp: 3976294
Ion Ratio Lower Upper
228 100
226 38.6 22.2 33.4#
229 21.0 16.1 24.1

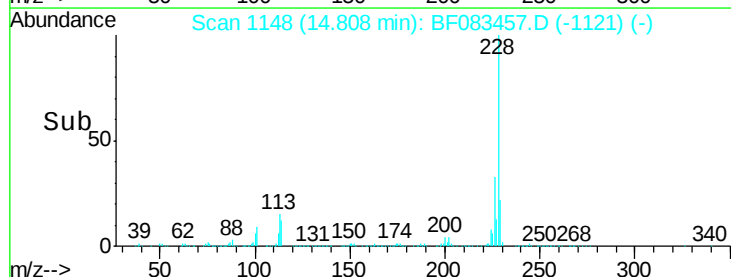
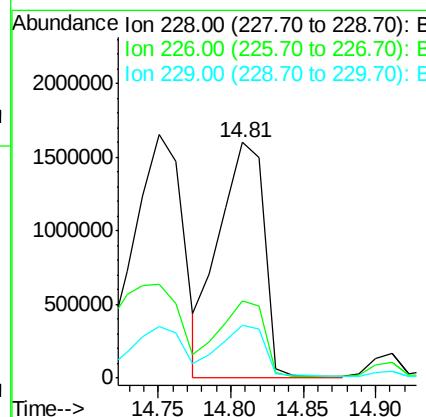
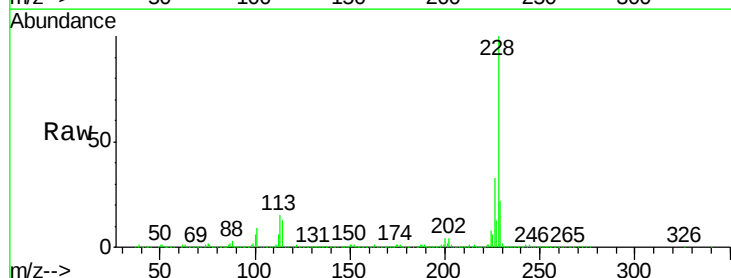
Manual Integrations
APPROVED

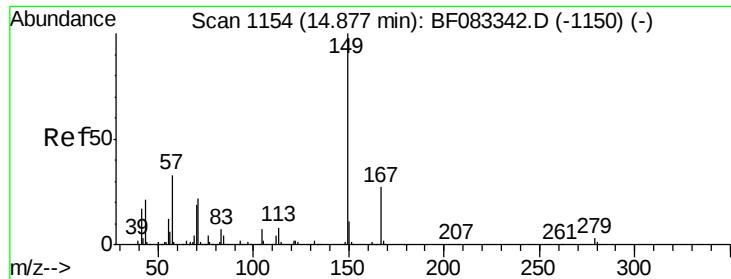
Mmdadoda
12/3/2015 7:10:17 PM



#82
Chrysene
Concen: 212.61 ng/mL
RT: 14.81 min Scan# 1148
Delta R.T. 0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion: 228 Resp: 3458229
Ion Ratio Lower Upper
228 100
226 33.0 24.6 37.0
229 22.4 16.2 24.2





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.42 ng

RT: 14.85 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BF083457.D

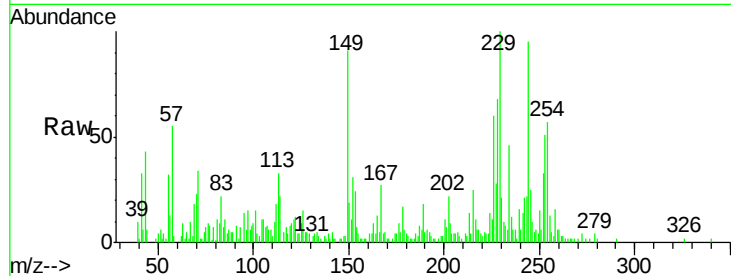
Acq: 3 Dec 2015 11:58

Instrument :

BNA_F

ClientSampleId :

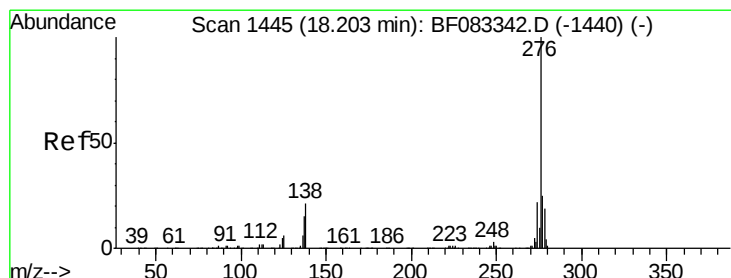
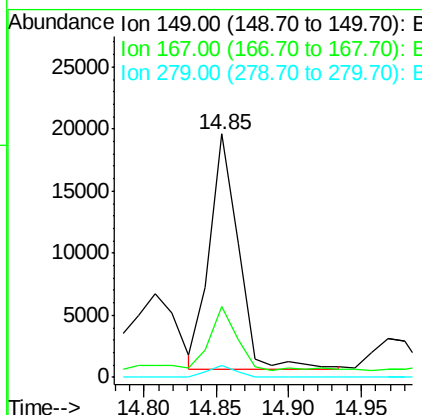
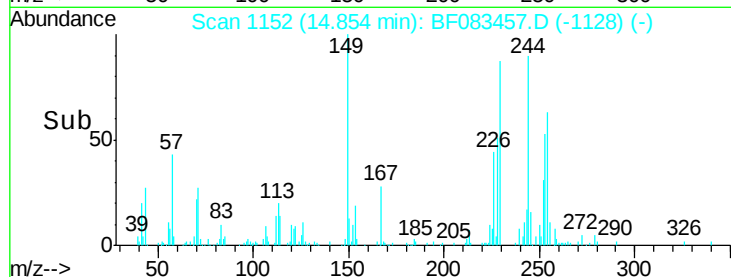
SB-P3WC-15(0-8)



Tot Ion:	149	Resp:	26413
Ion Ratio	Lower	Upper	
149	100		
167	29.1	21.5	32.3
279	4.7	2.6	3.8#

Manual Integrations
APPROVED

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12/3/2015 7:10:17 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 135.06 ng m

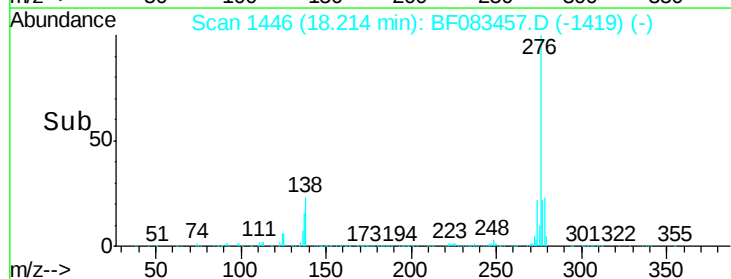
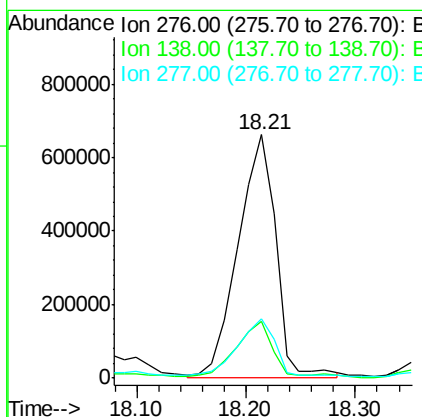
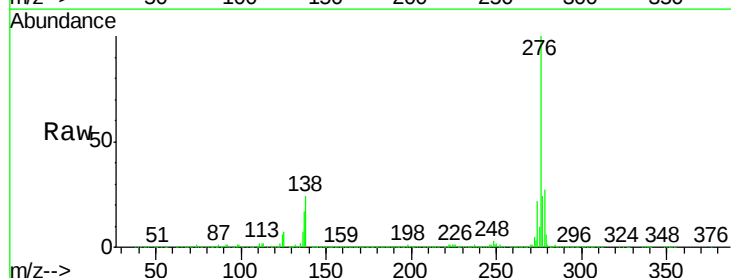
RT: 18.21 min Scan# 1446

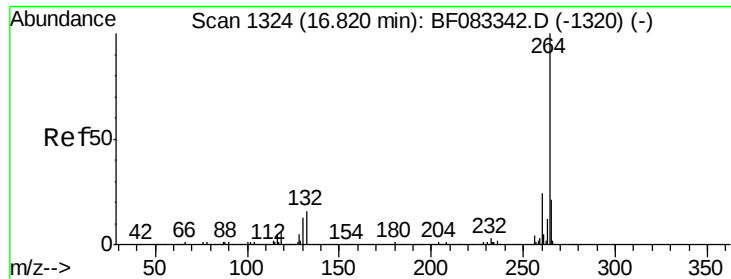
Delta R.T. 0.01 min

Lab File: BF083457.D

Acq: 3 Dec 2015 11:58

Tgt Ion:	276	Resp:	1599902
Ion Ratio	Lower	Upper	
276	100		
138	5.8	21.2	31.8#
277	7.1	20.0	30.0#





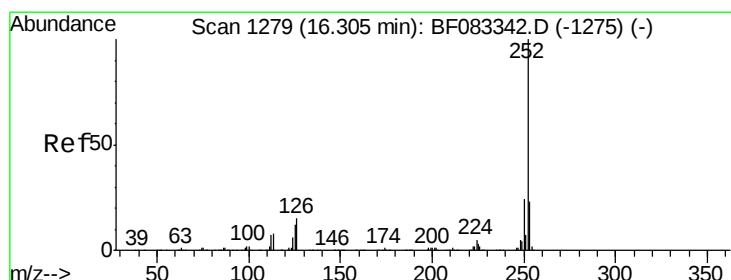
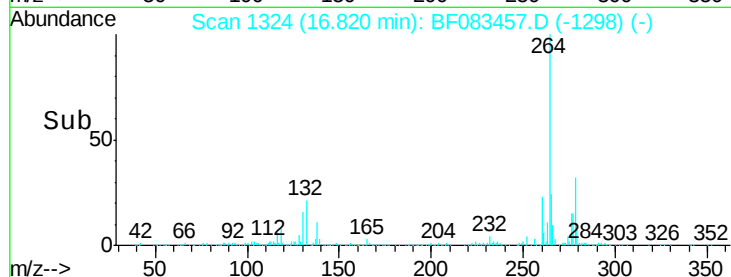
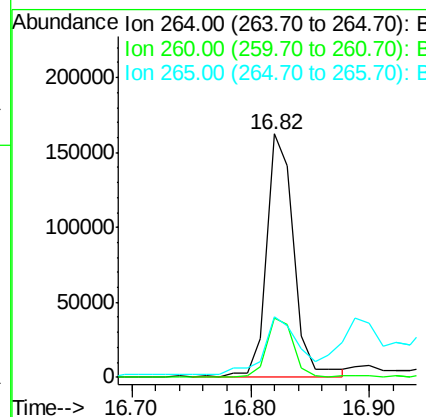
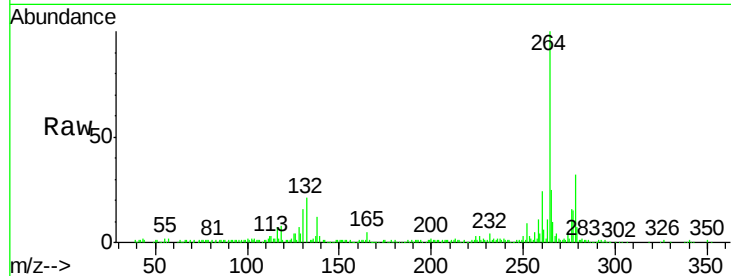
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.82 min Scan# 1324
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.0	28.4
265	25.0	16.8	25.2

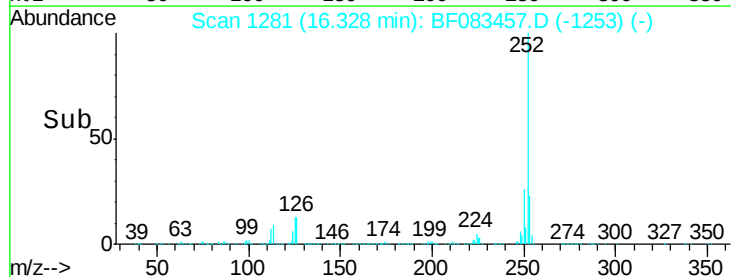
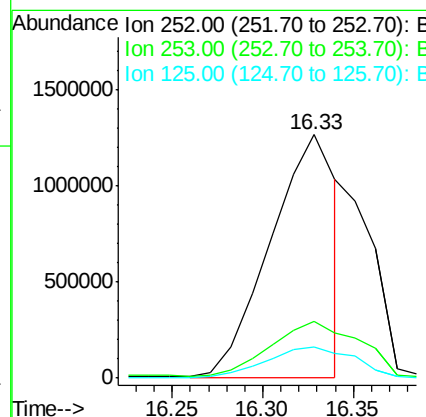
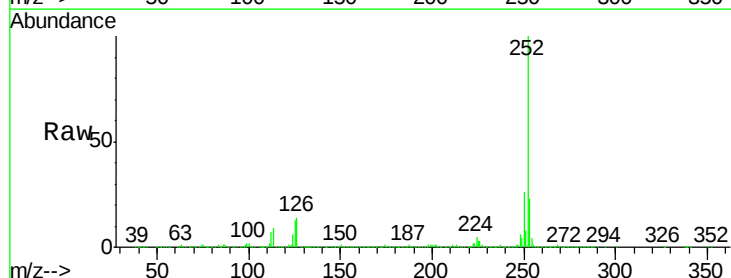
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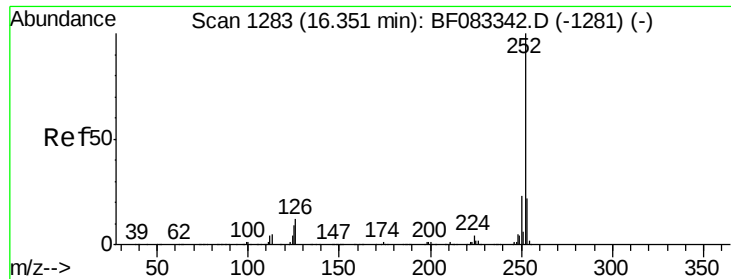
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#87
Benzo(b)fluoranthene
Concen: 197.73 ng m
RT: 16.33 min Scan# 1281
Delta R.T. 0.02 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	12.8	9.6	14.4





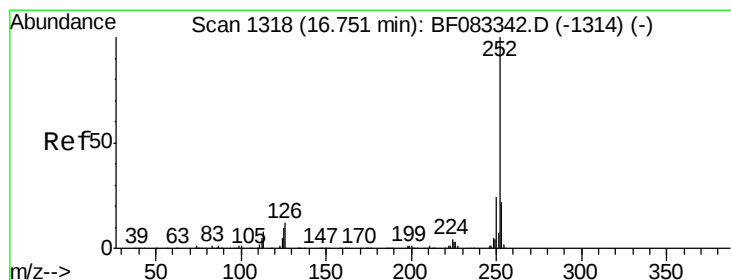
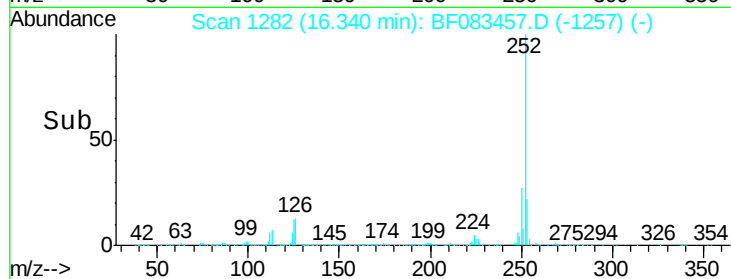
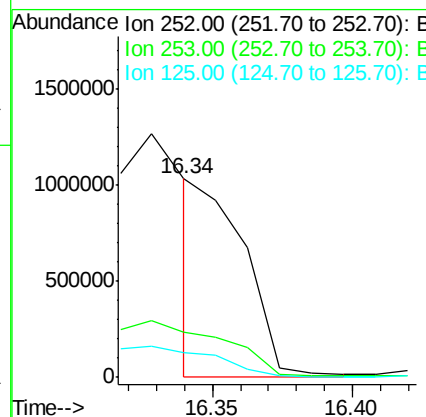
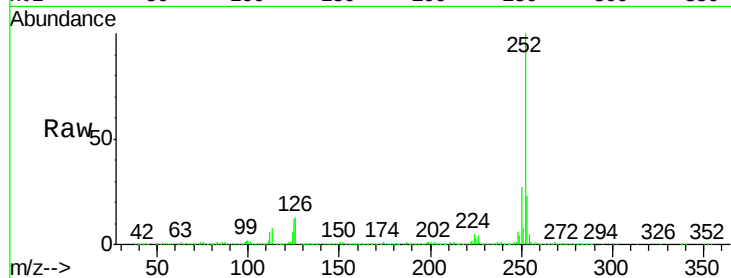
#88
Benzo(k)fluoranthene
Concen: 74.11 ng m
RT: 16.34 min Scan# 1282
Delta R.T. -0.01 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.0
125	12.2	7.5	11.3

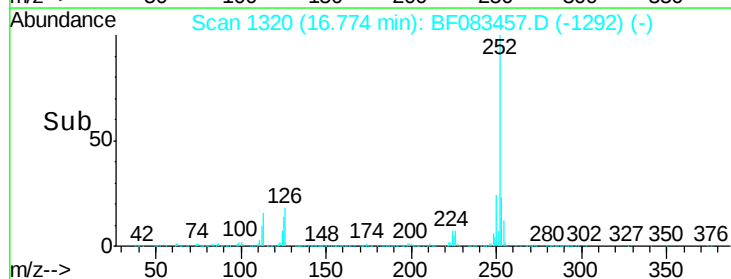
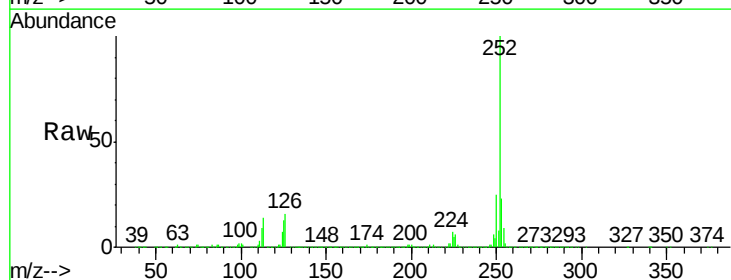
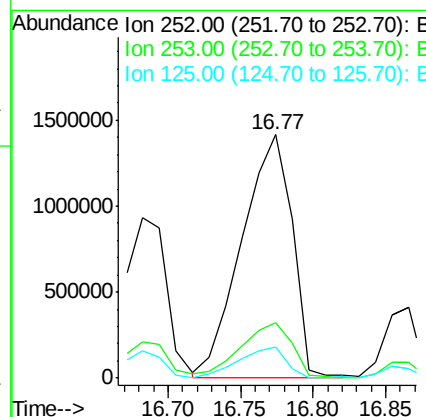
Manual Integrations
APPROVED

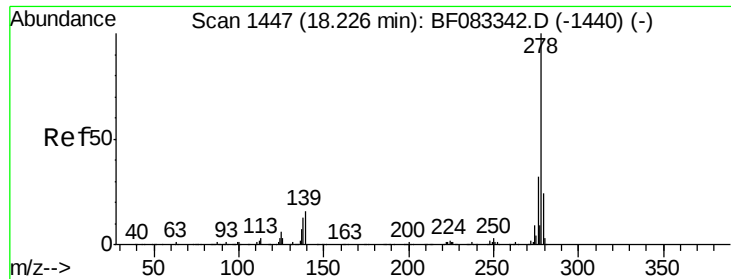
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12/3/2015 7:10:17 PM



#89
Benzo(a)pyrene
Concen: 239.31 ng
RT: 16.77 min Scan# 1320
Delta R.T. 0.02 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	12.6	7.8	11.8





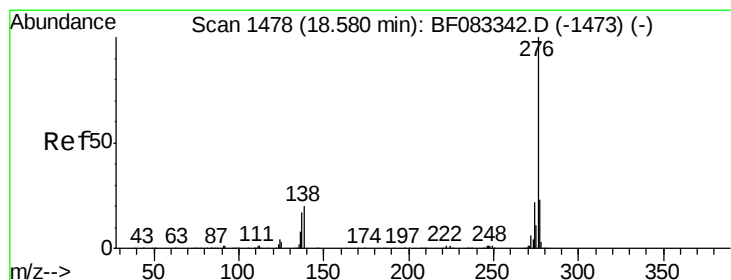
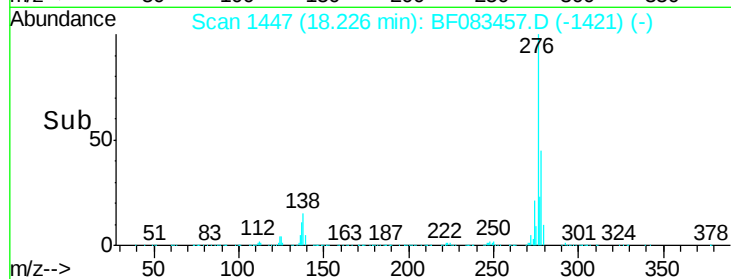
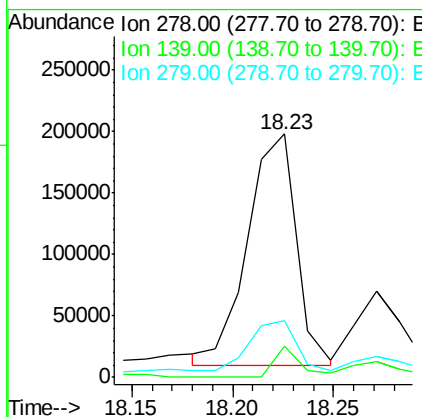
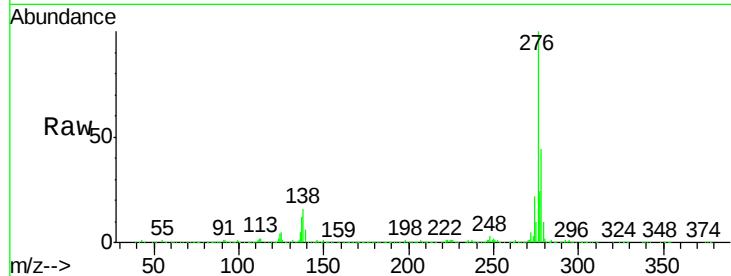
#90
Dibenzo(a,h)anthracene
Concen: 25.64 ng m
RT: 18.23 min Scan# 1447
Delta R.T. 0.00 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-15(0-8)

Tot Ion	Ratio	Lower	Upper
278	100		
139	12.8	13.1	19.7#
279	23.2	19.2	28.8

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 137.81 ng
RT: 18.60 min Scan# 1480
Delta R.T. 0.02 min
Lab File: BF083457.D
Acq: 3 Dec 2015 11:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.6	28.0
138	19.6	16.1	24.1

