

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
 Data File : BF083657.D
 Acq On : 10 Dec 2015 00:00
 Operator : UM/IZ
 Sample : G4585-06DL2 25X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(0-4)DL2

Manual Integrations
 APPROVED

MMdadoda
 12/10/2015 5:50:16 PM

Quant Time: Dec 10 04:43:58 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	139483	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	553011	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	256550	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	408259	20.00	ng	-0.02
75) Chrysene-d12	16.97	240	312756	20.00	ng	-0.02
86) Perylene-d12	18.61	264	276778	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.00	112	54902m	5.97	ng	0.02
7) Phenol-d6	5.29	99	83969	6.83	ng	0.01
23) Nitrobenzene-d5	6.53	82	54941	4.64	ng	0.00
41) 2,4,6-Tribromophenol	11.67	330	9632	4.21	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	104395	5.73	ng	-0.02
78) Terphenyl-d14	15.38	244	70140	5.28	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.61	128	353741	12.08	ng	98
37) 2-Methylnaphthalene	8.72	142	43916	2.39	ng	99
51) Acenaphthene	10.41	154	116977	7.36	ng	99
54) Dibenzofuran	10.70	168	68629	3.11	ng	97
57) Fluorene	11.25	166	111938	5.82	ng	100
70) Phenanthrene	12.80	178	961838	41.01	ng	99
71) Anthracene	12.88	178	320299	13.18	ng	97
72) Carbazole	13.19	167	120706	5.79	ng	98
74) Fluoranthene	14.73	202	1122602	46.78	ng	99
77) Pyrene	15.08	202	972621	43.20	ng	96
80) Benzo(a)anthracene	16.96	228	508487	27.78	ng	97
82) Chrysene	17.00	228	427742	23.31	ng	98
85) Indeno(1,2,3-cd)pyrene	19.85	276	221621	17.89	ng	# 100
87) Benzo(b)fluoranthene	18.24	252	514118m	32.62	ng	
88) Benzo(k)fluoranthene	18.25	252	212844m	12.26	ng	
89) Benzo(a)pyrene	18.56	252	415424	27.01	ng	97
90) Dibenzo(a,h)anthracene	19.85	278	46592m	3.96	ng	
91) Benzo(g,h,i)perylene	20.20	276	206095	17.98	ng	95

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

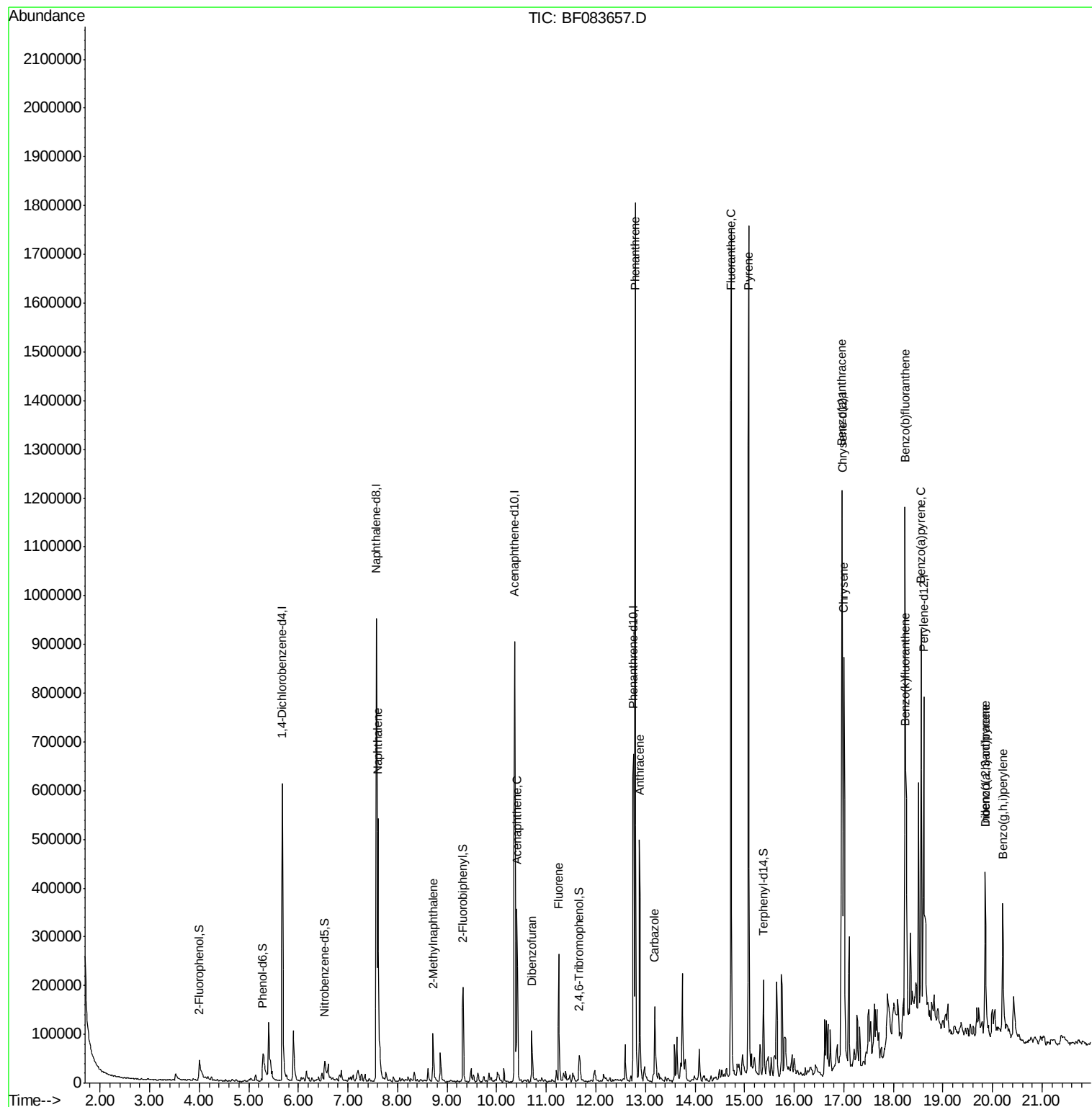
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
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ALS Vial : 23 Sample Multiplier: 1

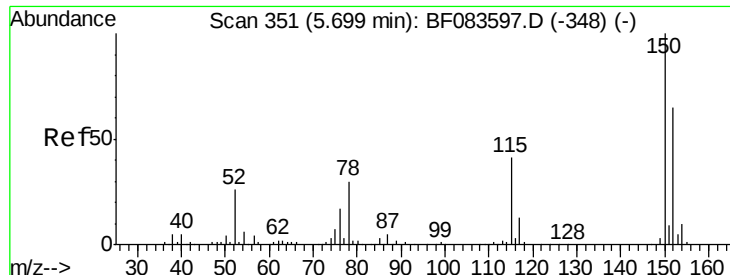
Instrument :
BNA_F
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SB-P3WC-16(0-4)DL2

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Quant Time: Dec 10 04:43:58 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 09 00:23:35 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.68 min Scan# 349

Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(0-4)DL2

Tot Ion:152 Resp: 139483

Ion Ratio Lower Upper

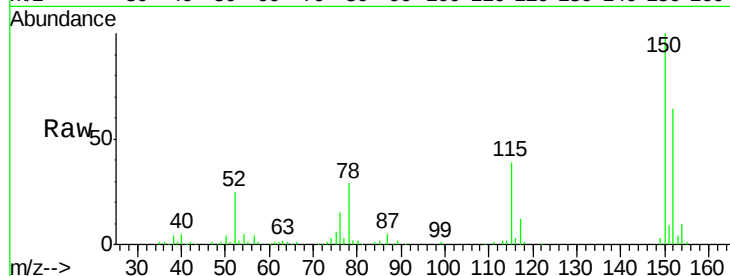
152 100

150 155.7 126.5 189.7

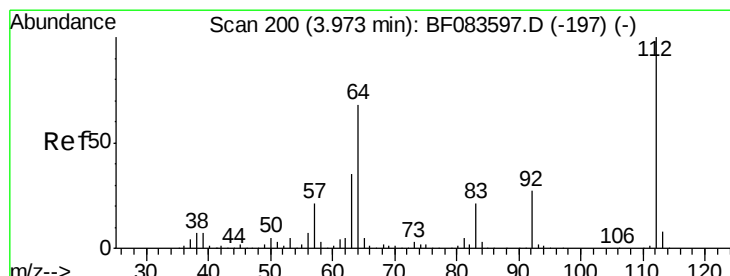
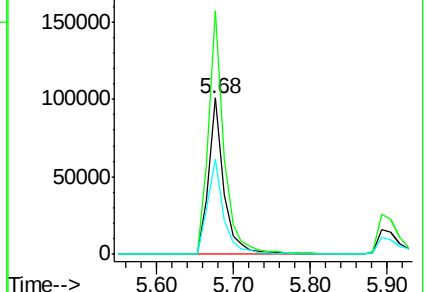
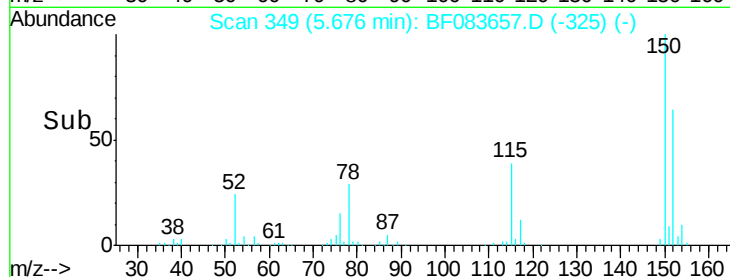
115 61.0 52.3 78.5

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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: 5.97 ng m

RT: 4.00 min Scan# 202

Delta R.T. 0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

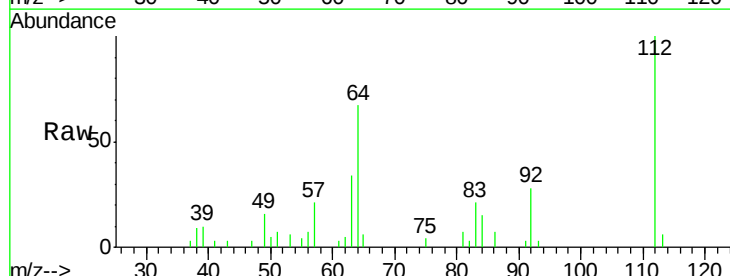
Tgt Ion:112 Resp: 54902

Ion Ratio Lower Upper

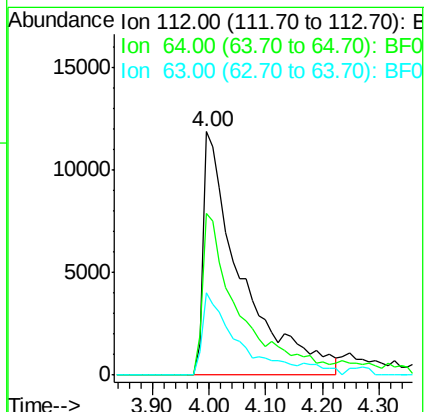
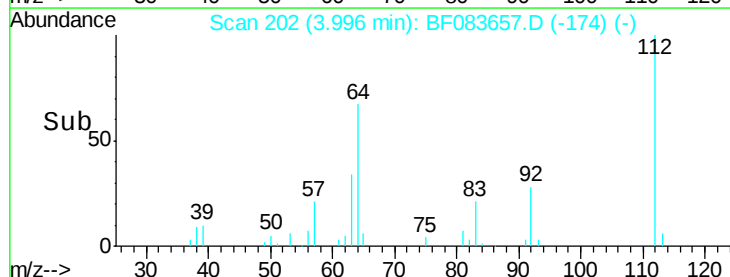
112 100

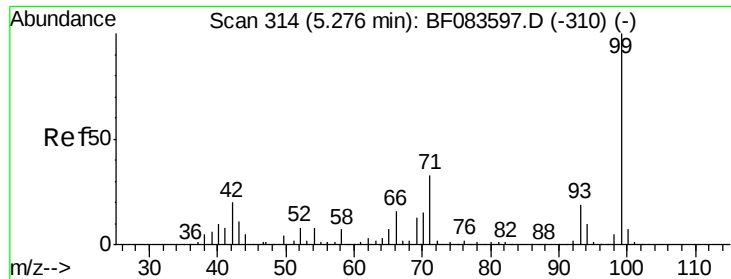
64 66.6 50.5 75.7

63 33.7 25.8 38.6



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: 6.83 ng

RT: 5.29 min Scan# 315

Delta R.T. 0.01 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

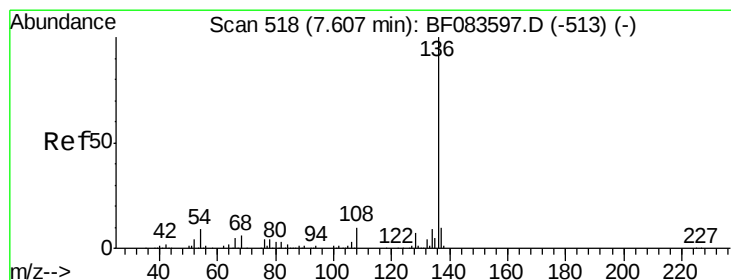
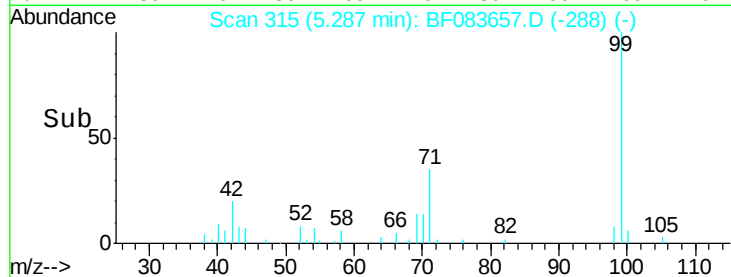
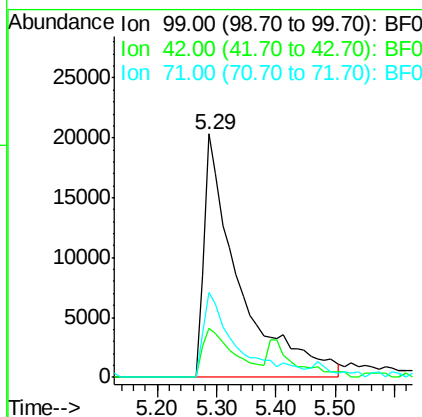
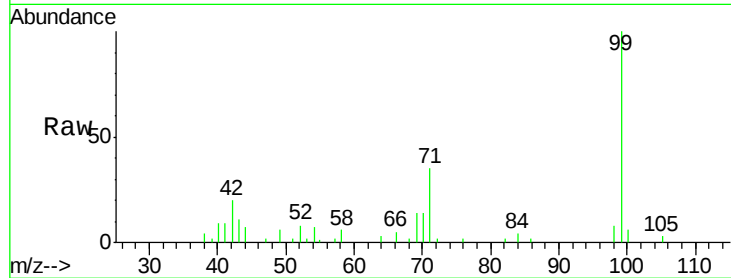
ClientSampleId :

SB-P3WC-16(0-4)DL2

Tot Ion:	99	Resp:	83969
Ion Ratio	Lower	Upper	
99	100		
42	20.0	17.3	25.9
71	34.8	26.6	40.0

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#21

Naphthalene-d8

Concen: 20.00 ng

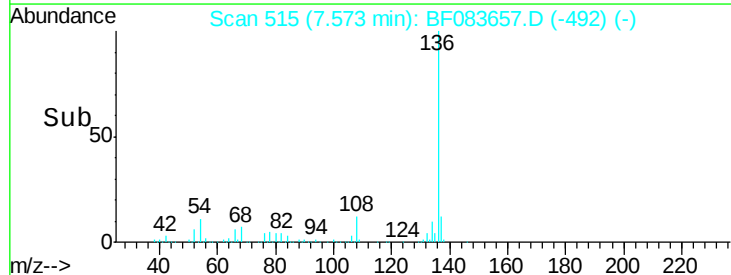
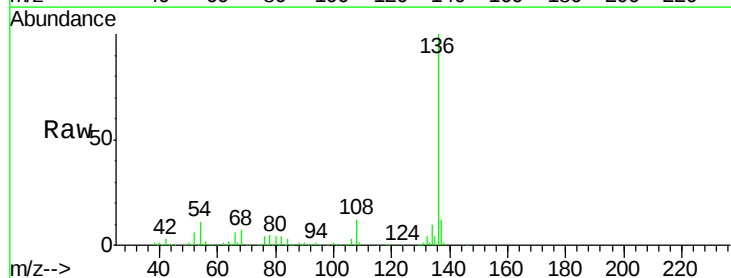
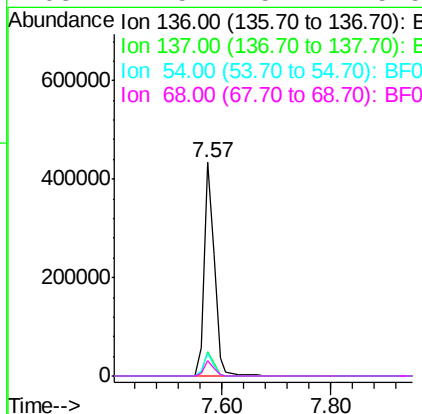
RT: 7.57 min Scan# 515

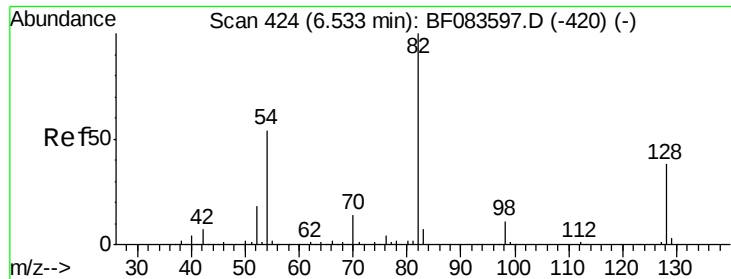
Delta R.T. -0.03 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Tgt Ion:	136	Resp:	553011
Ion Ratio	Lower	Upper	
136	100		
137	11.6	8.7	13.1
54	10.7	7.8	11.6
68	7.5	5.7	8.5





#23

Nitrobenzene-d5

Concen: 4.64 ng

RT: 6.53 min Scan# 424

Delta R.T. 0.00 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

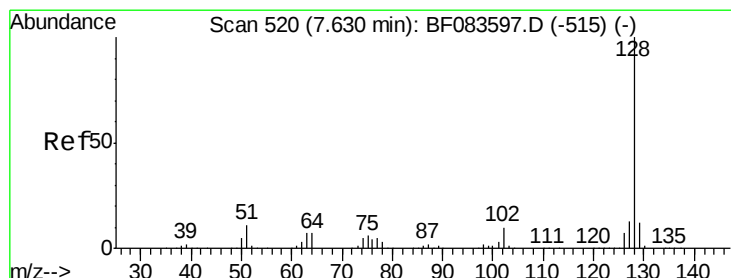
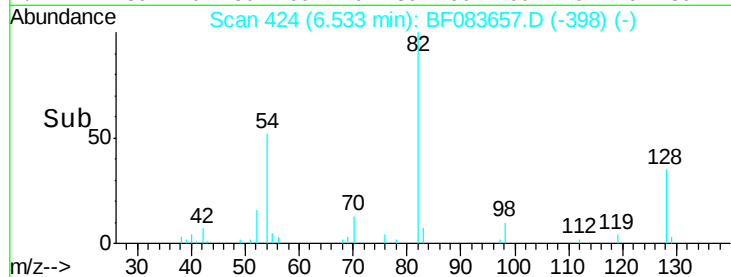
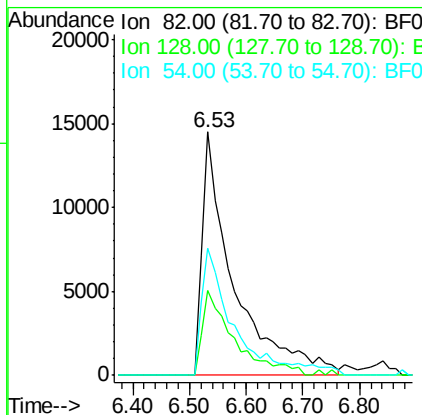
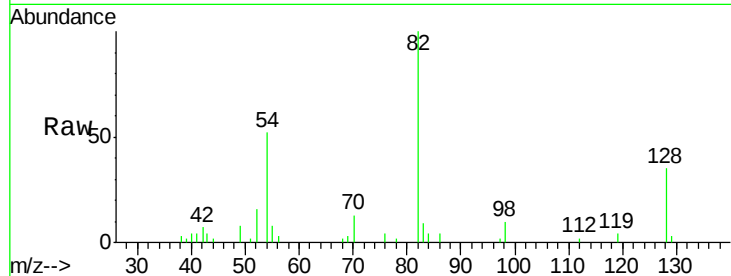
ClientSampleId :

SB-P3WC-16(0-4)DL2

Tot Ion:	82	Resp:	54941
Ion Ratio	Lower	Upper	
82	100		
128	34.9	30.7	46.1
54	52.4	42.5	63.7

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#31

Naphthalene

Concen: 12.08 ng

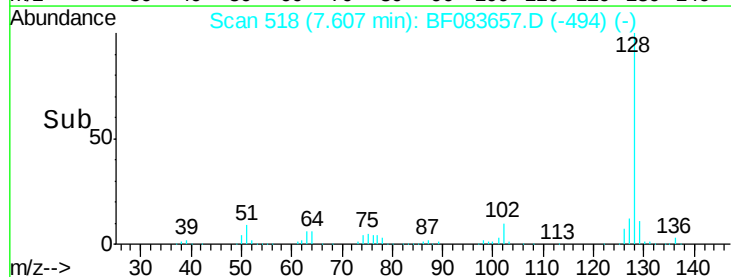
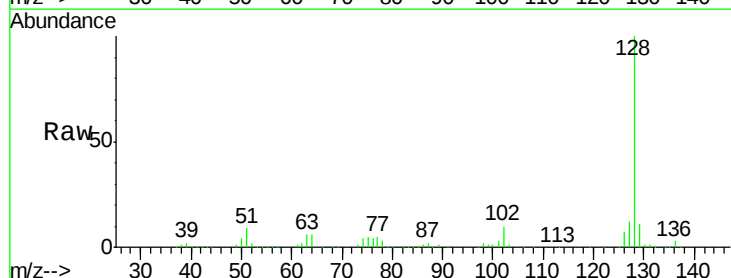
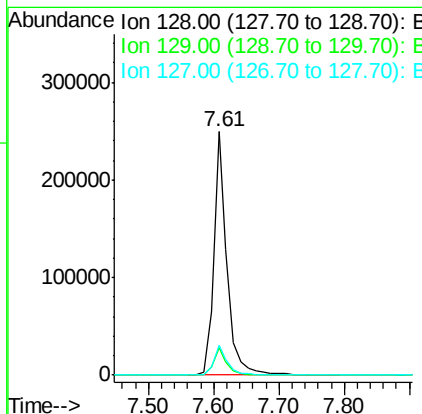
RT: 7.61 min Scan# 518

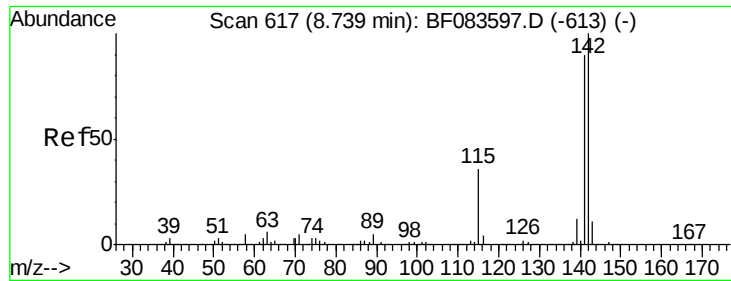
Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Tgt Ion:	128	Resp:	353741
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.6	13.0
127	12.5	10.6	16.0





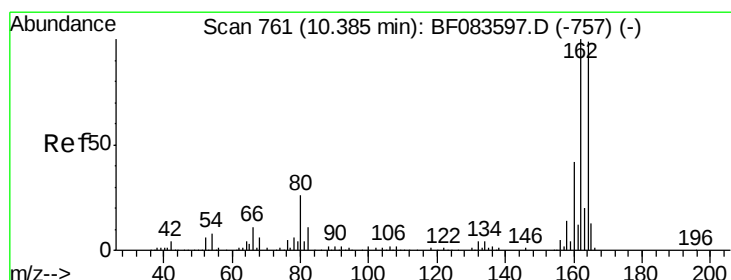
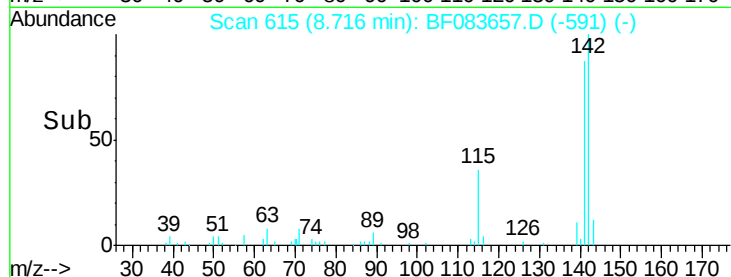
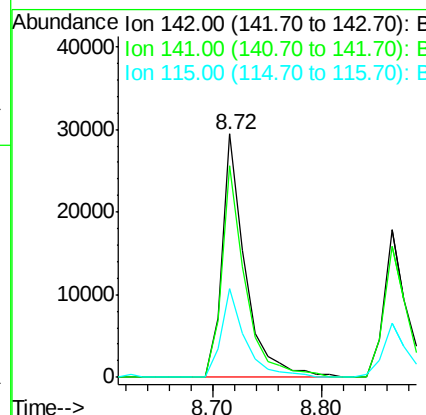
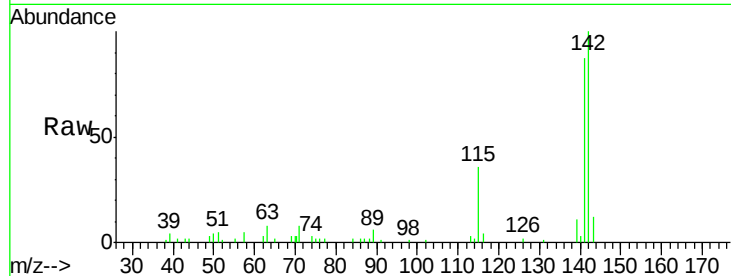
#37
2-Methylnaphthalene
Concen: 2.39 ng
RT: 8.72 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.8	70.3	105.5
115	36.4	29.2	43.8

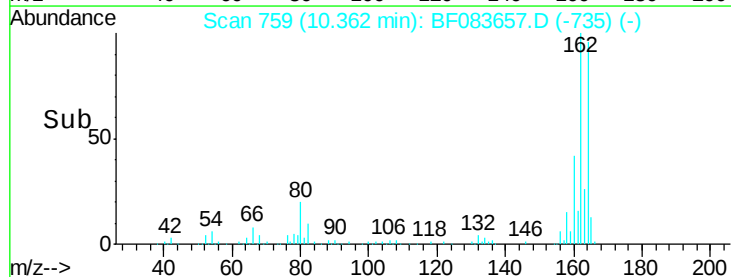
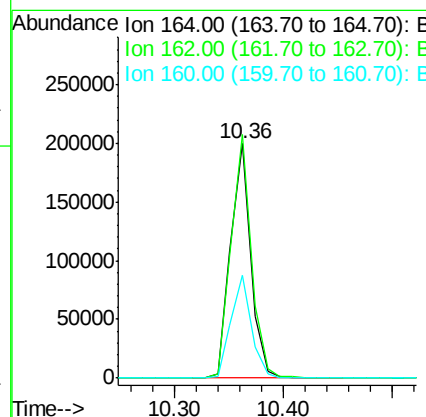
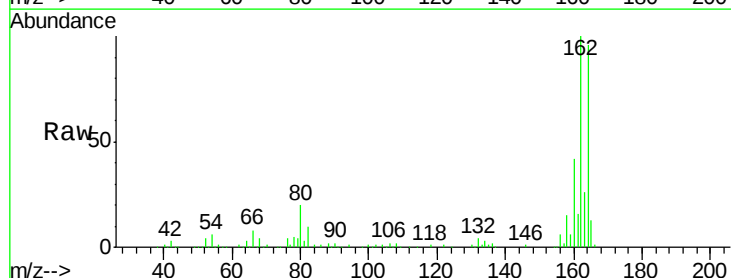
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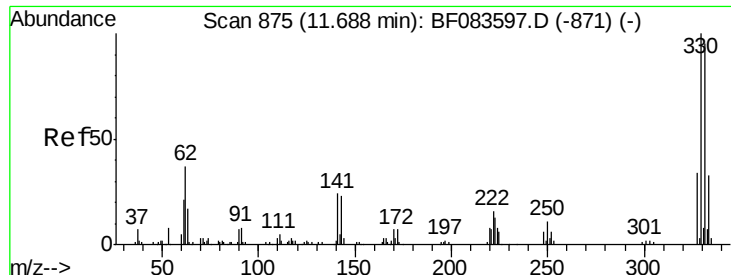
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	78.8	118.2
160	43.9	33.4	50.2





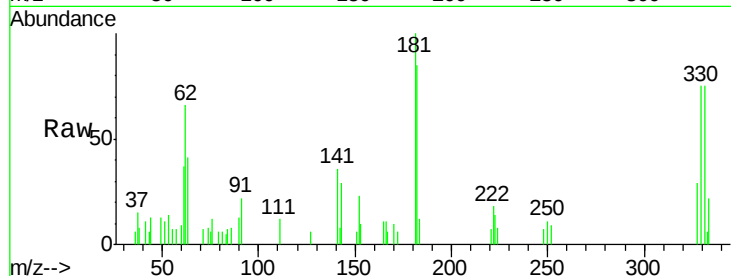
#41
 2,4,6-Tribromophenol
 Concen: 4.21 ng
 RT: 11.67 min Scan# 873
 Delta R.T. -0.02 min
 Lab File: BF083657.D
 Acq: 10 Dec 2015 00:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(0-4)DL2

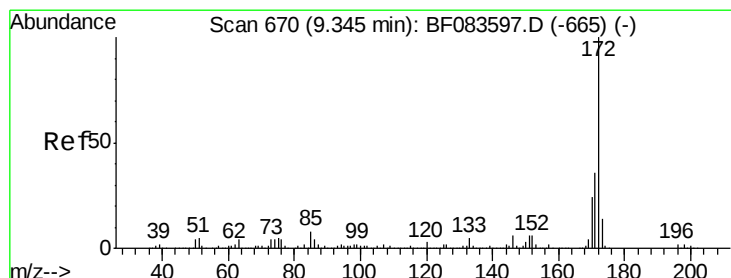
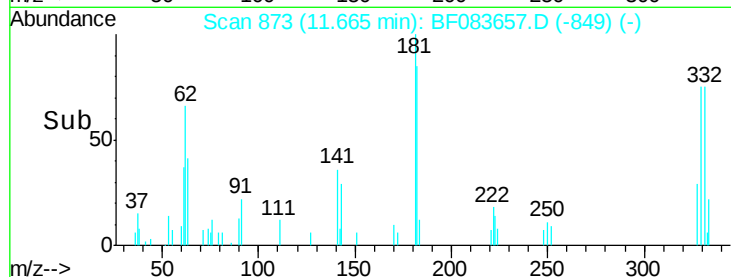
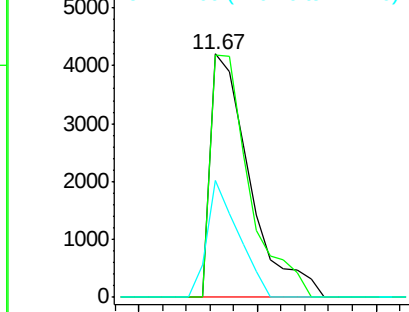
Tot Ion	Ratio	Resp	Lower	Upper
330	100	9632		
332	97.9	0.0	0.0	0.0
141	38.6	0.0	0.0	0.0

Manual Integrations
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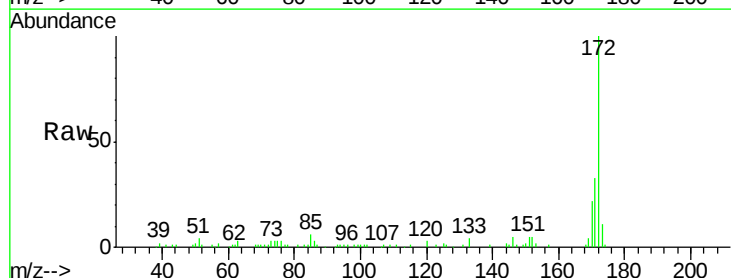


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

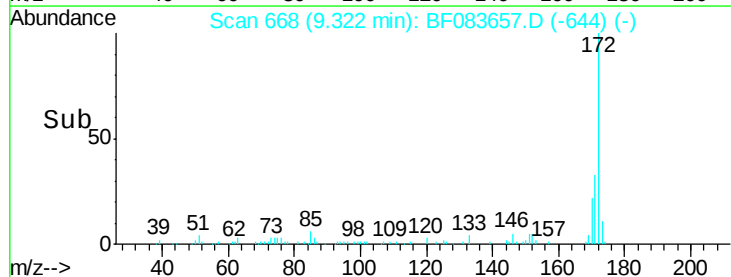
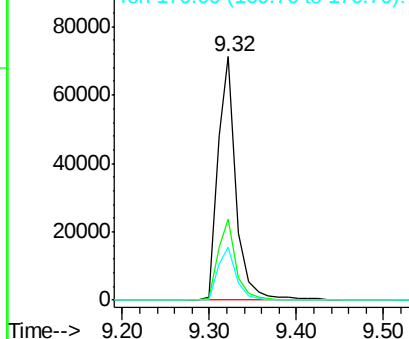


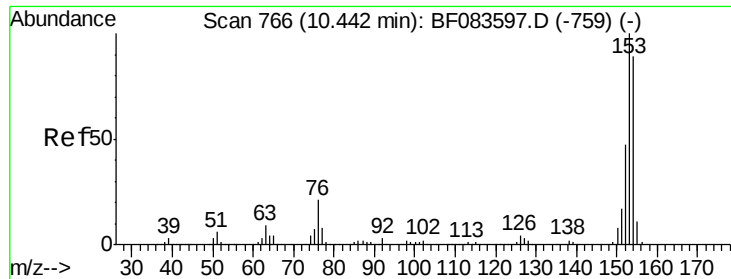
#44
 2-Fluorobiphenyl
 Concen: 5.73 ng
 RT: 9.32 min Scan# 668
 Delta R.T. -0.02 min
 Lab File: BF083657.D
 Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	104395		
171	33.5	28.6	42.8	
170	21.5	19.4	29.0	



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





#51

Acenaphthene

Concen: 7.36 ng

RT: 10.41 min Scan# 763

Delta R.T. -0.03 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

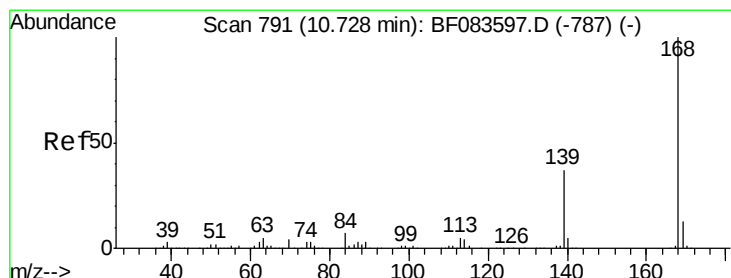
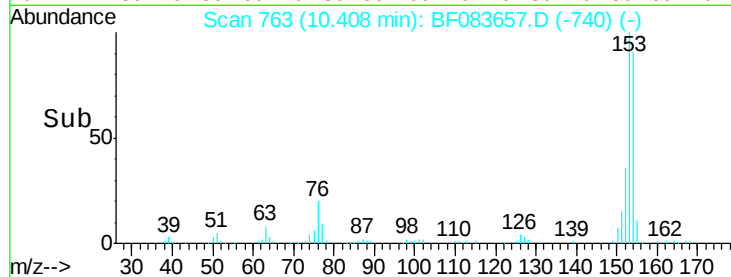
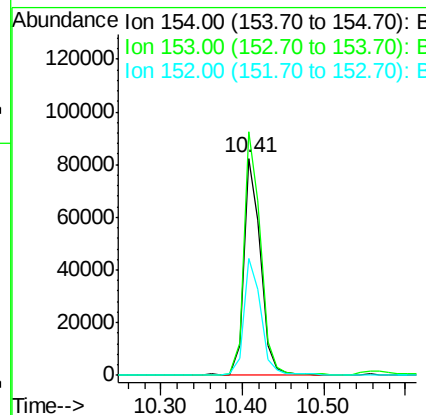
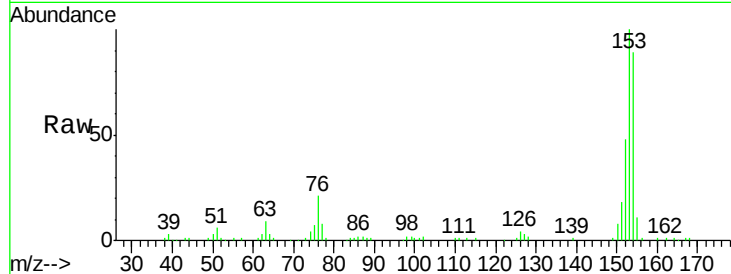
ClientSampleId :

SB-P3WC-16(0-4)DL2

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Tot Ion:154	Resp:	116977
Ion Ratio	Lower	Upper
154	100	
153	112.2	91.4 137.0
152	53.9	43.4 65.2



#54

Dibenzofuran

Concen: 3.11 ng

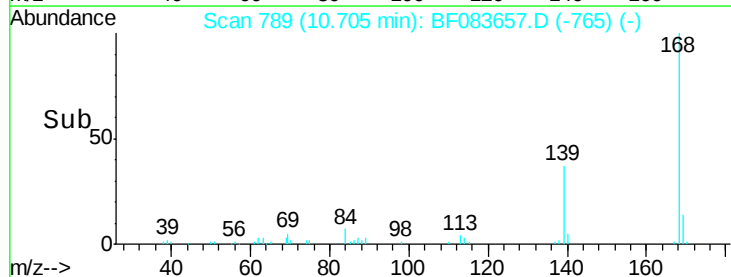
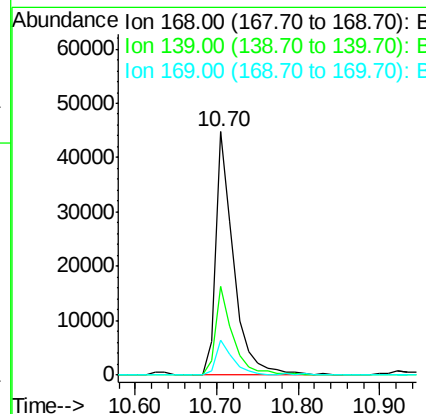
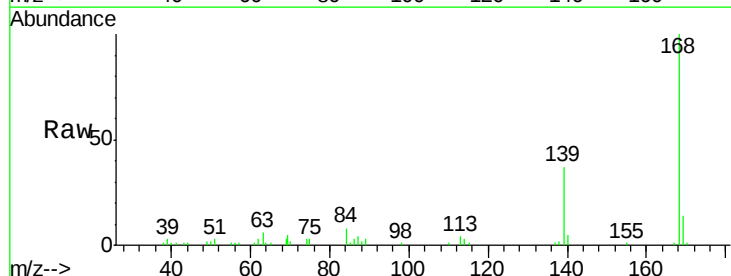
RT: 10.70 min Scan# 789

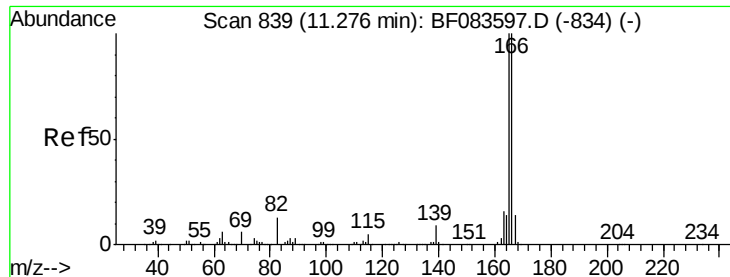
Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Tgt Ion:168	Resp:	68629
Ion Ratio	Lower	Upper
168	100	
139	36.5	28.0 42.0
169	14.4	10.8 16.2





#57

Fluorene

Concen: 5.82 ng

RT: 11.25 min Scan# 837

Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

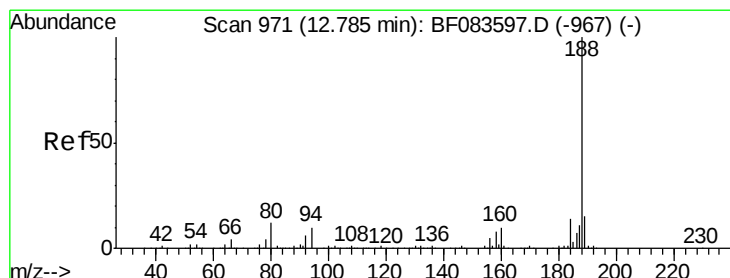
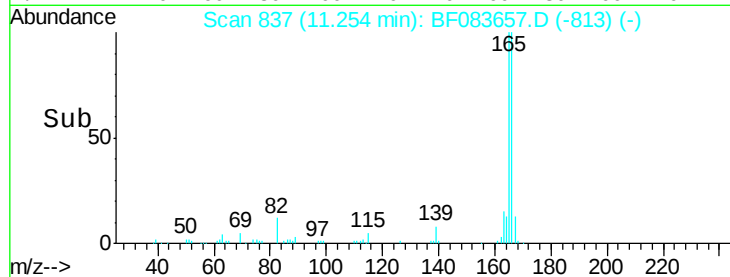
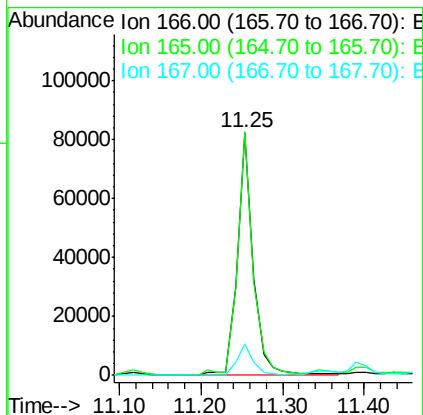
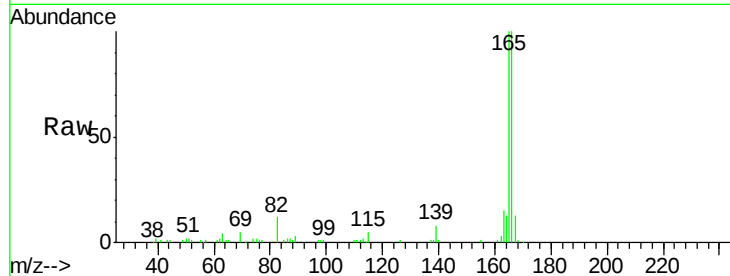
ClientSampleId :

SB-P3WC-16(0-4)DL2

Tot Ion:	166	Resp:	111938
Ion Ratio		Lower	Upper
166	100		
165	100.3	80.0	120.0
167	13.0	10.6	16.0

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MMdadoda
12/10/2015 5:50:16 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

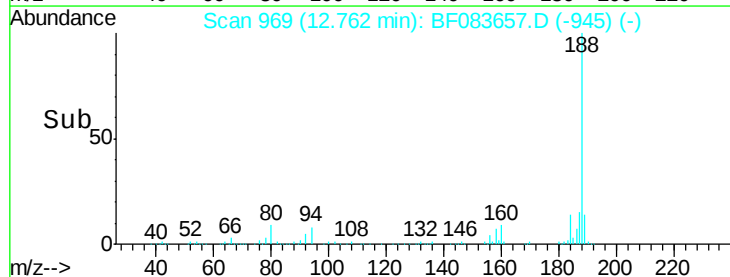
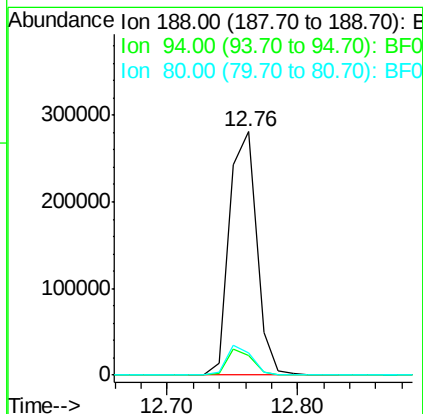
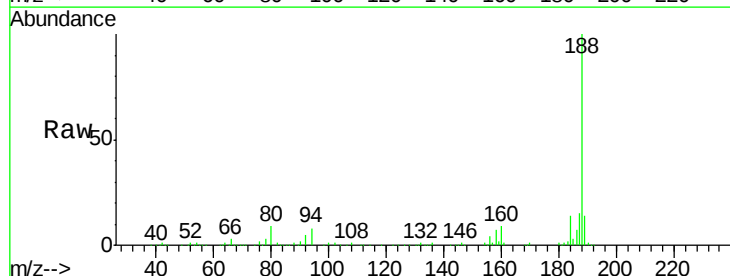
RT: 12.76 min Scan# 969

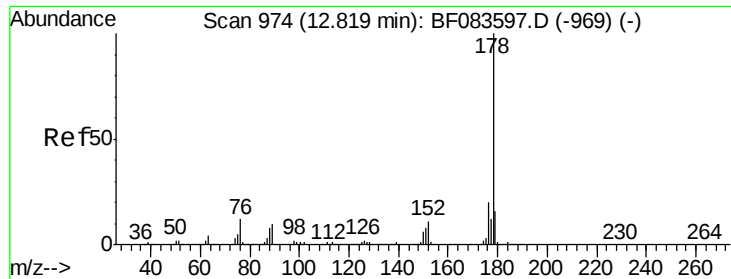
Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Tgt Ion:	188	Resp:	408259
Ion Ratio		Lower	Upper
188	100		
94	8.3	9.4	14.2#
80	9.2	10.6	16.0#





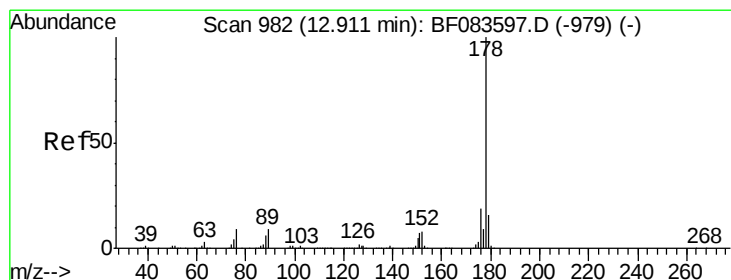
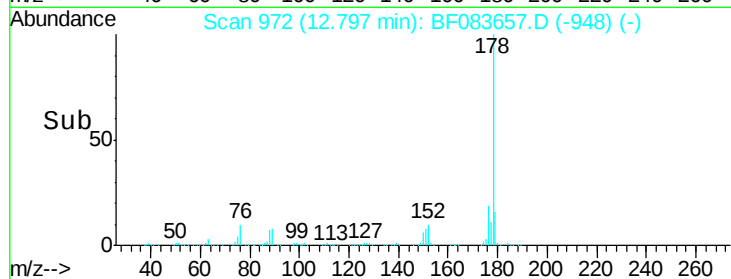
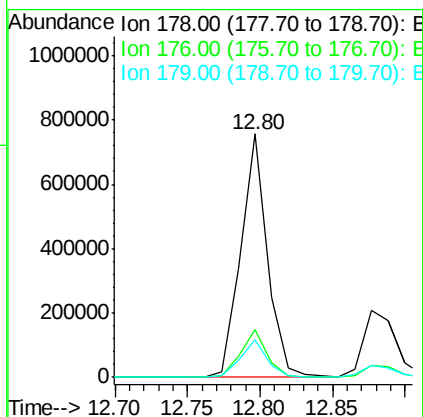
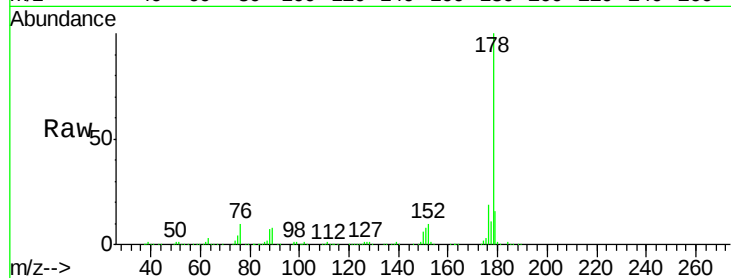
#70
Phenanthrene
Concen: 41.01 ng
RT: 12.80 min Scan# 972
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.6	12.2	18.4

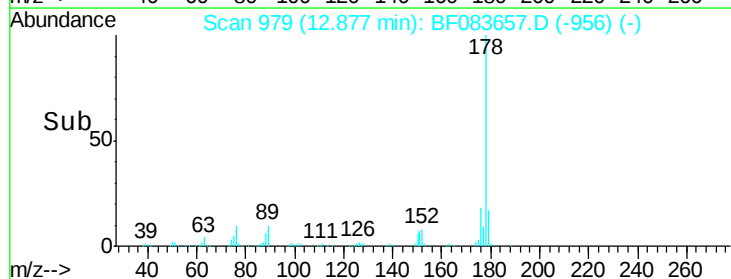
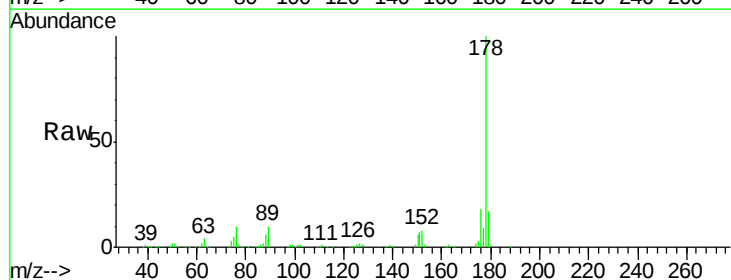
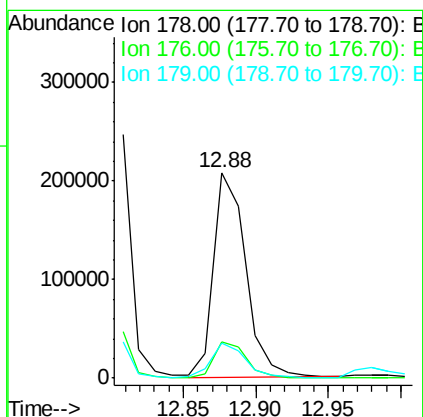
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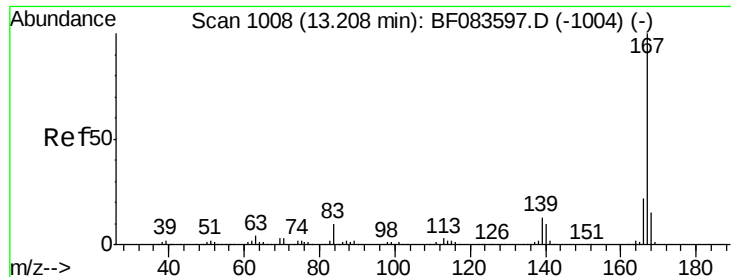
MMdadoda
12/10/2015 5:50:16 PM



#71
Anthracene
Concen: 13.18 ng
RT: 12.88 min Scan# 979
Delta R.T. -0.03 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.2	22.8
179	17.0	12.6	18.8





#72

Carbazole

Concen: 5.79 ng

RT: 13.19 min Scan# 1006

Delta R.T. -0.02 min

Lab File: BF083657.D

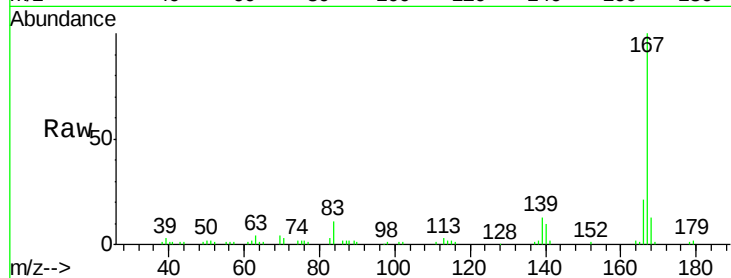
Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

ClientSampleId :

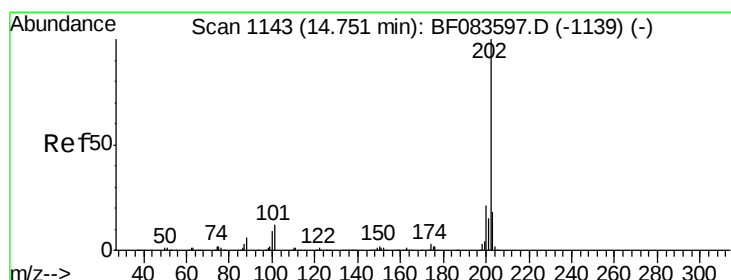
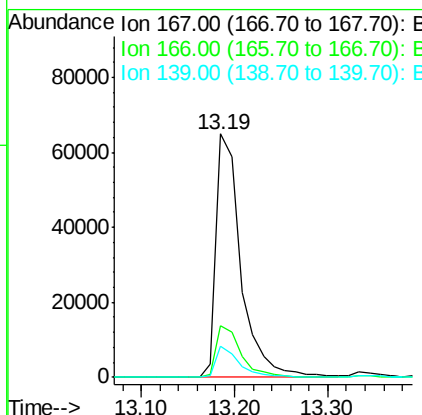
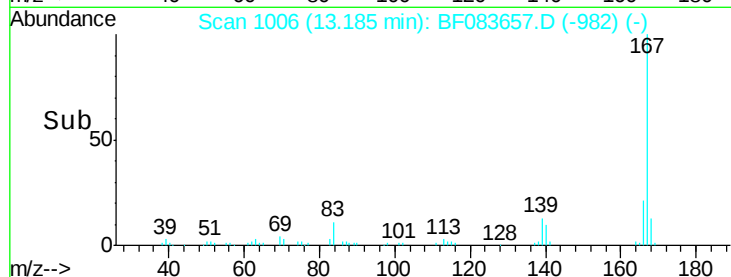
SB-P3WC-16(0-4)DL2



Tot Ion	Ion	Ratio	Lower	Upper
167	100			
166	21.0	17.2	25.8	
139	12.8	9.3	13.9	

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#74

Fluoranthene

Concen: 46.78 ng

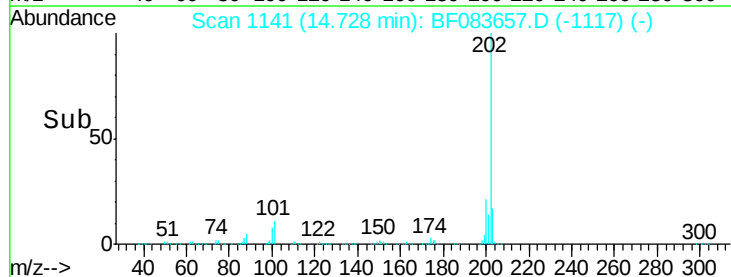
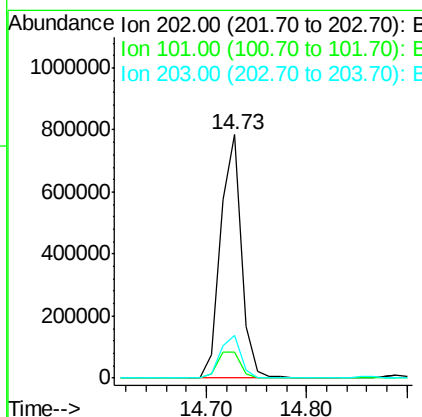
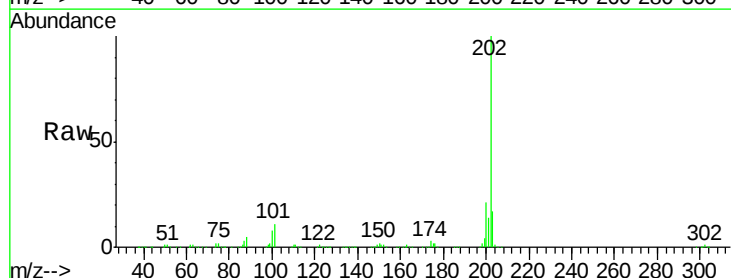
RT: 14.73 min Scan# 1141

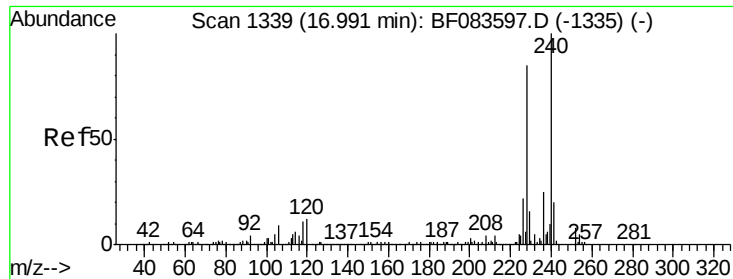
Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Tgt Ion	Ion	Ratio	Lower	Upper
202	100			
101	10.6	0.0	31.5	
203	17.3	0.0	37.6	





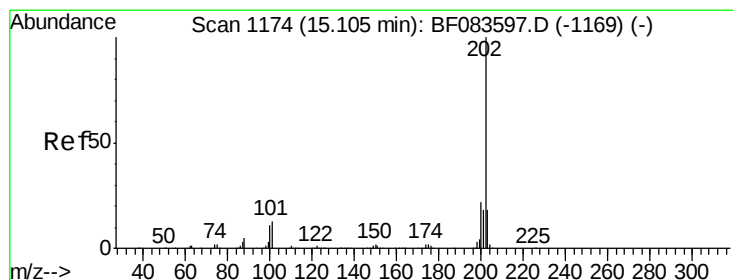
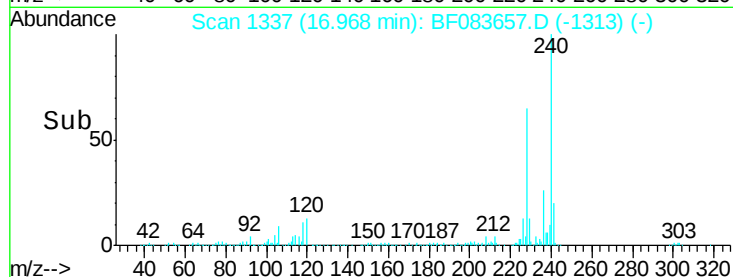
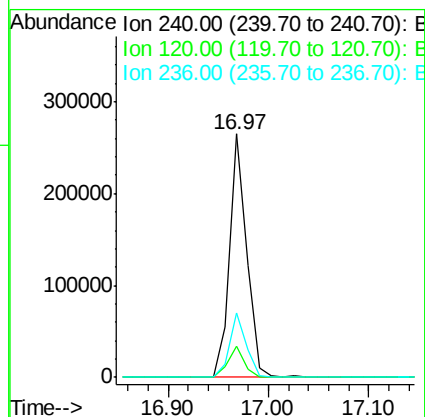
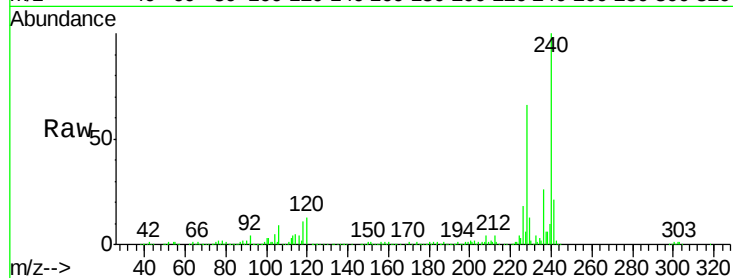
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 16.97 min Scan# 1337
 Delta R.T. -0.02 min
 Lab File: BF083657.D
 Acq: 10 Dec 2015 00:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.6	8.1	12.1#
236	26.4	20.8	31.2

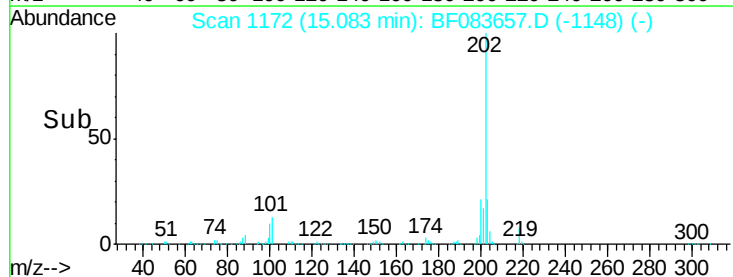
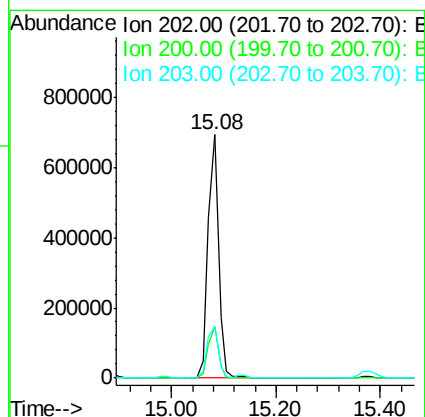
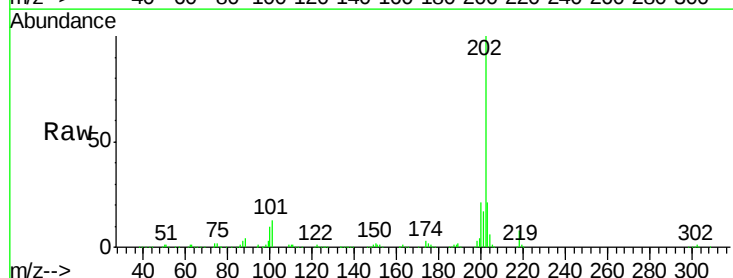
Manual Integrations
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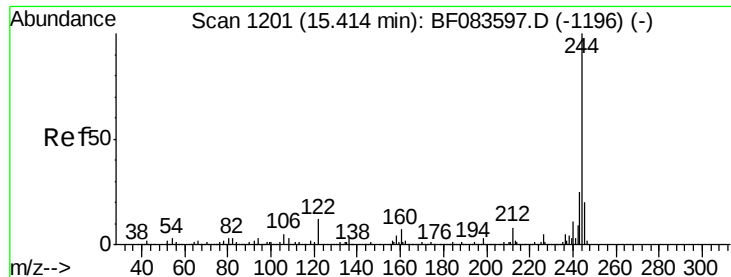
MMdadoda
 12/10/2015 5:50:16 PM



#77
 Pyrene
 Concen: 43.20 ng
 RT: 15.08 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF083657.D
 Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	21.4	14.3	21.5





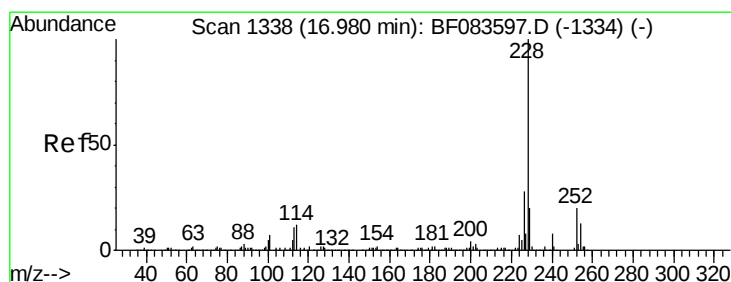
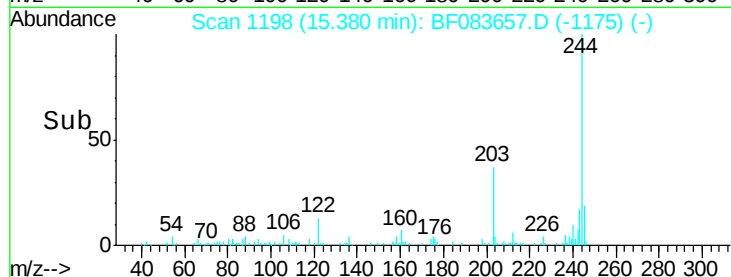
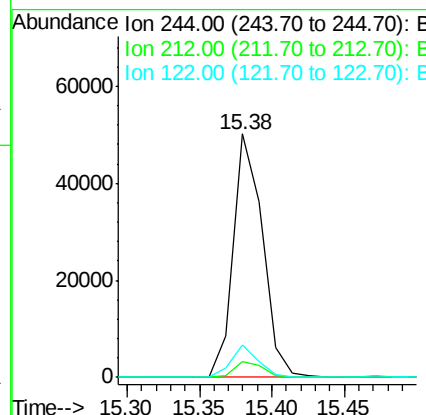
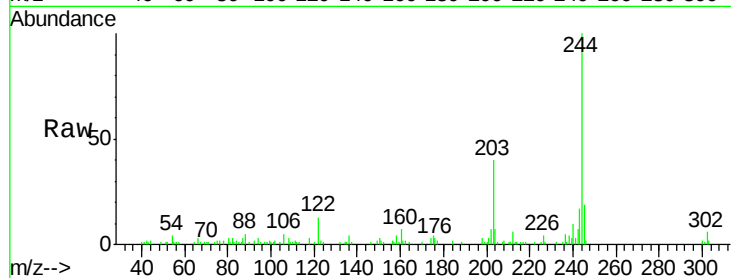
#78
 Terphenyl-d14
 Concen: 5.28 ng
 RT: 15.38 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: BF083657.D
 Acq: 10 Dec 2015 00:00

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	6.1	9.1
122	13.2	11.0	16.6

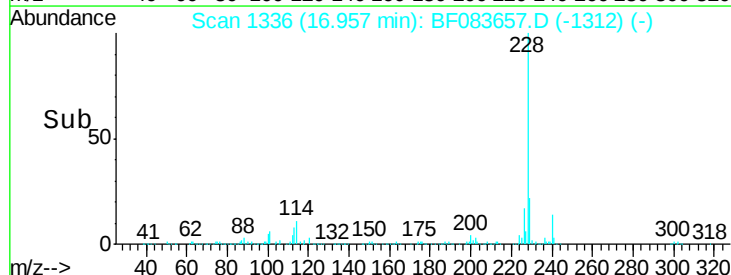
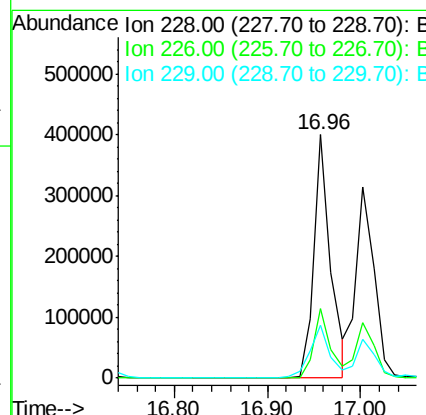
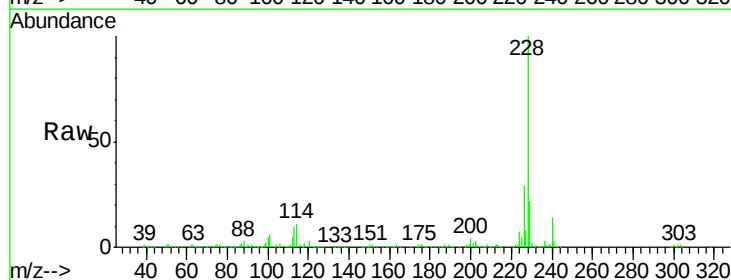
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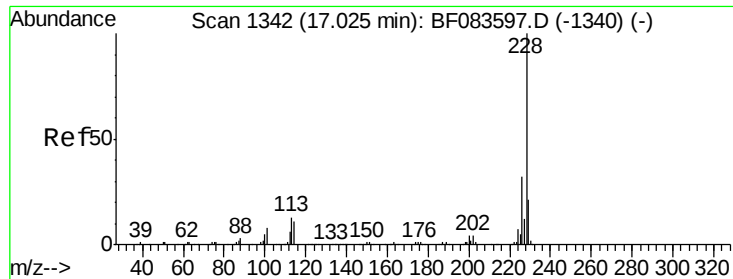
MMdadoda
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#80
 Benzo(a)anthracene
 Concen: 27.78 ng
 RT: 16.96 min Scan# 1336
 Delta R.T. -0.02 min
 Lab File: BF083657.D
 Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.3	33.5
229	21.6	15.7	23.5





#82

Chrysene

Concen: 23.31 ng

RT: 17.00 min Scan# 1340

Delta R.T. -0.02 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Instrument :

BNA_F

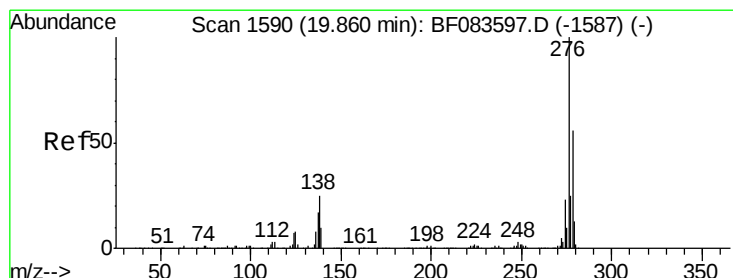
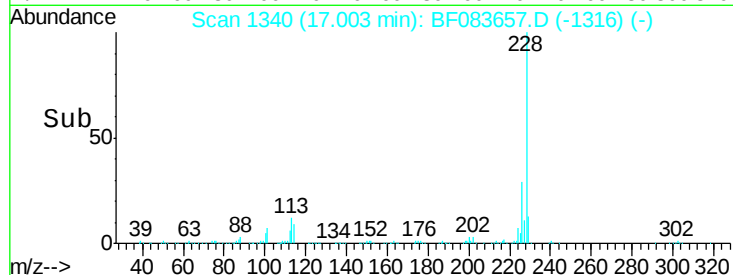
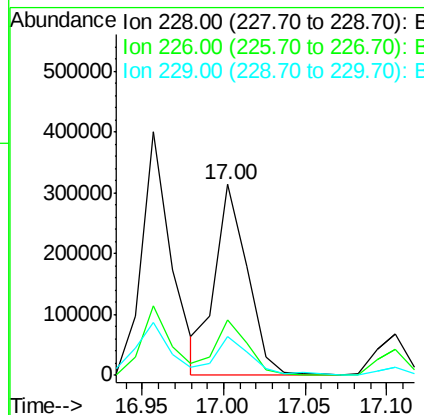
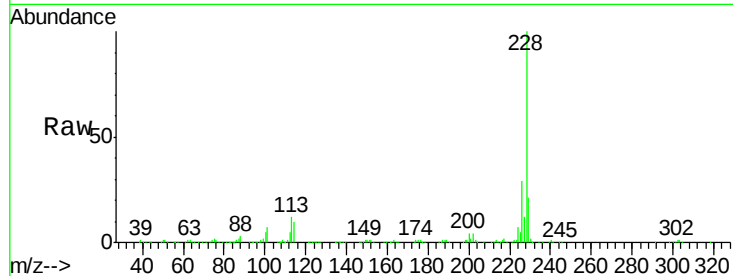
ClientSampleId :

SB-P3WC-16(0-4)DL2

Tot Ion:	228	Resp:	427742
Ion Ratio	Lower	Upper	
228	100		
226	28.9	24.7	37.1
229	20.6	16.3	24.5

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 17.89 ng

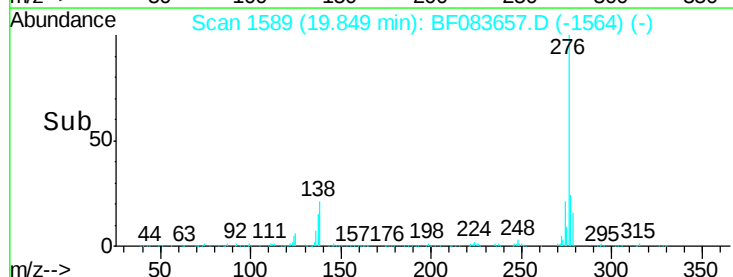
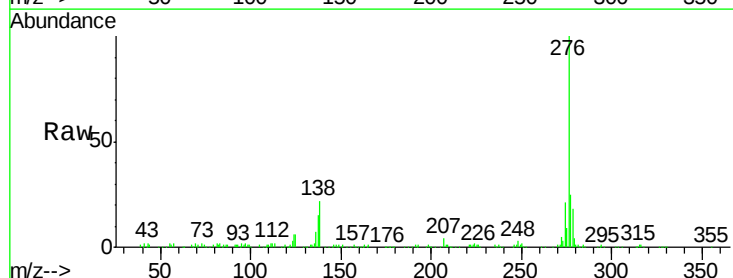
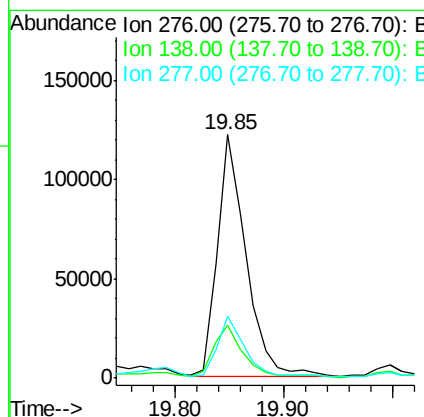
RT: 19.85 min Scan# 1589

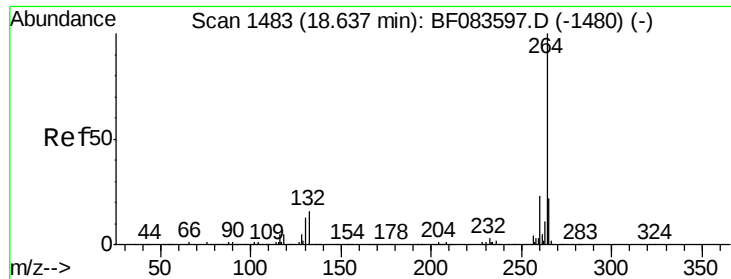
Delta R.T. -0.01 min

Lab File: BF083657.D

Acq: 10 Dec 2015 00:00

Tgt Ion:	276	Resp:	221621
Ion Ratio	Lower	Upper	
276	100		
138	23.0	0.0	0.0#
277	24.0	0.0	0.0#





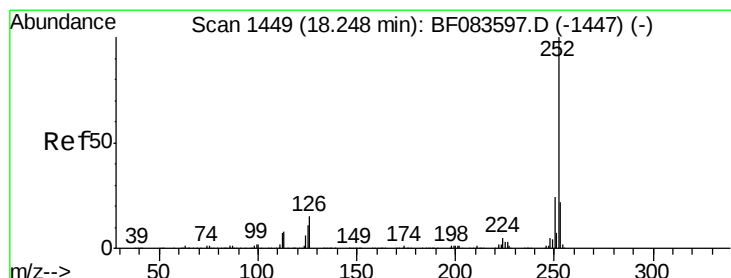
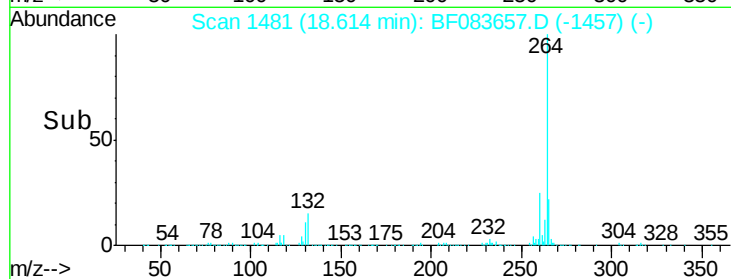
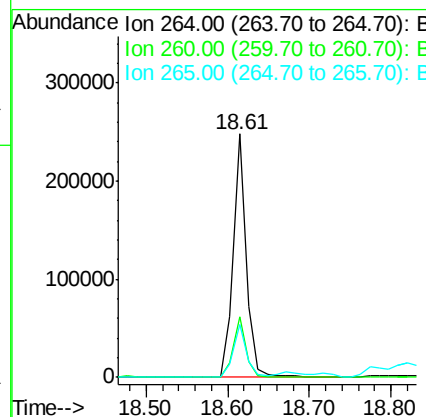
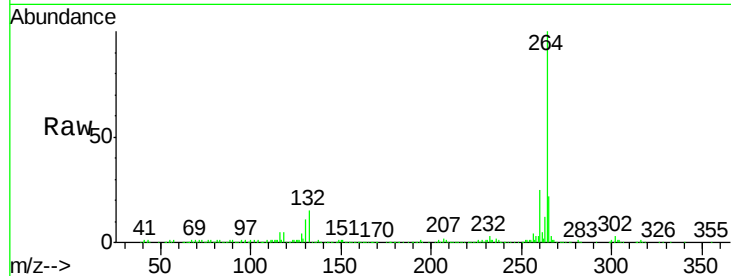
#86
Pervlene-d12
Concen: 20.00 ng
RT: 18.61 min Scan# 1481
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.4	29.0
265	21.7	17.8	26.6

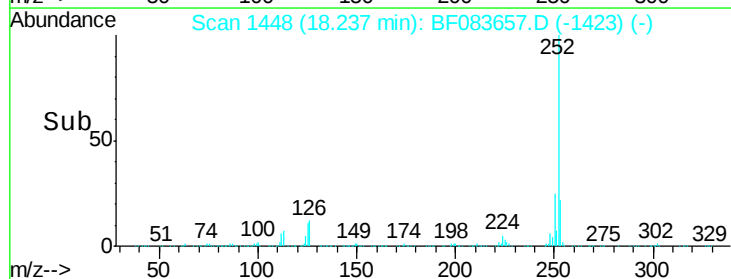
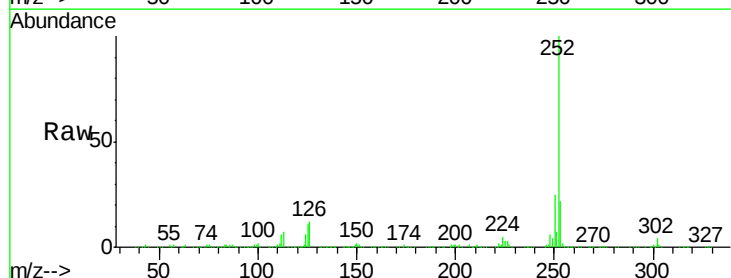
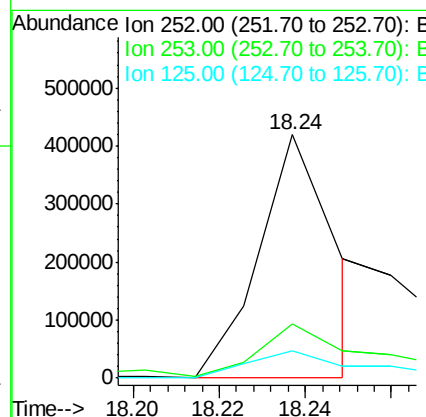
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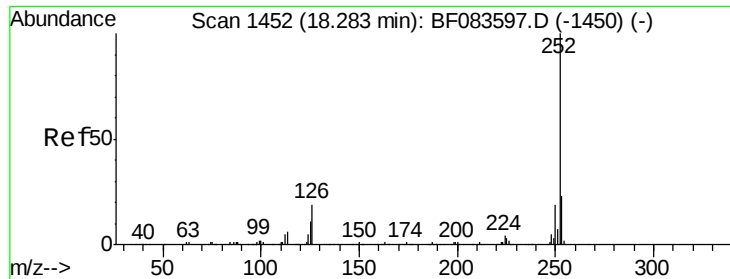
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#87
Benzo(b)fluoranthene
Concen: 32.62 ng m
RT: 18.24 min Scan# 1448
Delta R.T. -0.01 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	11.0	8.2	12.4





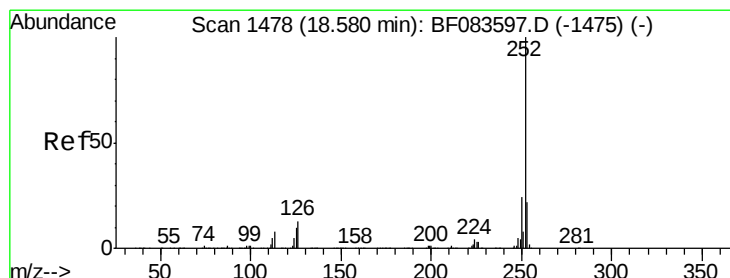
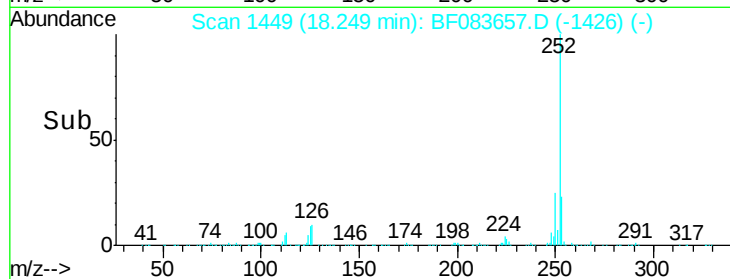
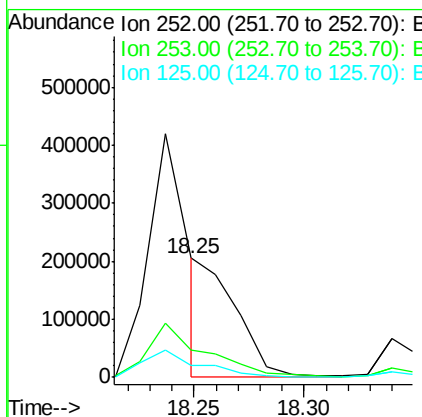
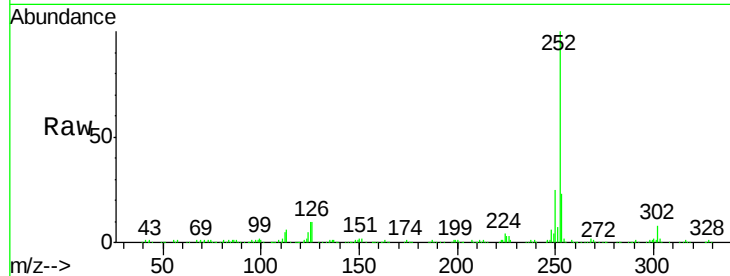
#88
Benzo(k)fluoranthene
Concen: 12.26 ng
RT: 18.25 min Scan# 1449
Delta R.T. -0.03 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.6	27.8
125	10.0	11.5	17.3

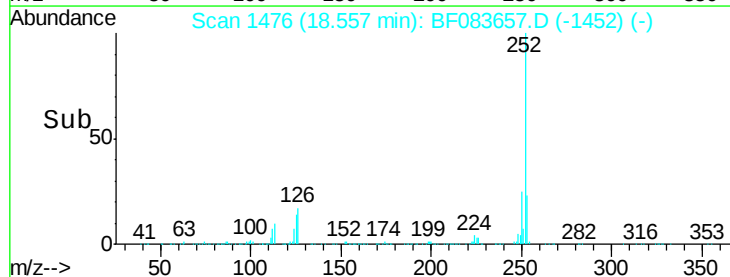
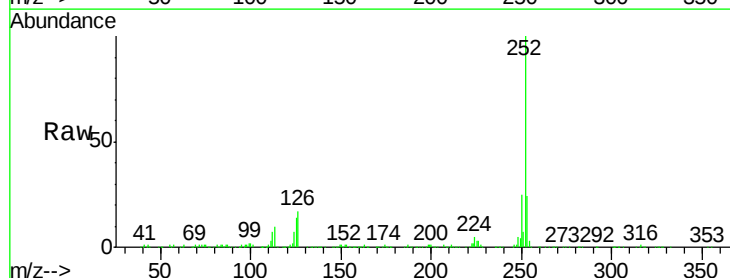
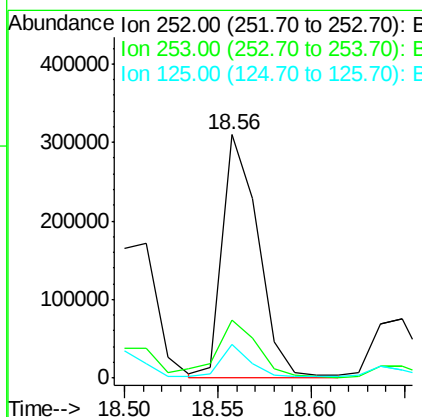
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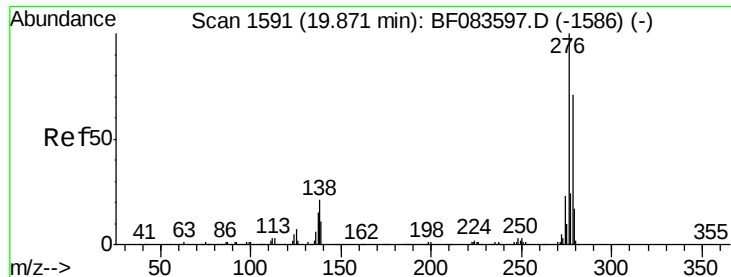
MMdadoda
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#89
Benzo(a)pyrene
Concen: 27.01 ng
RT: 18.56 min Scan# 1476
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	13.6	11.0	16.6





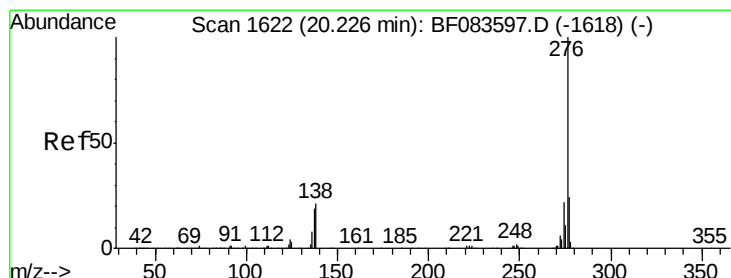
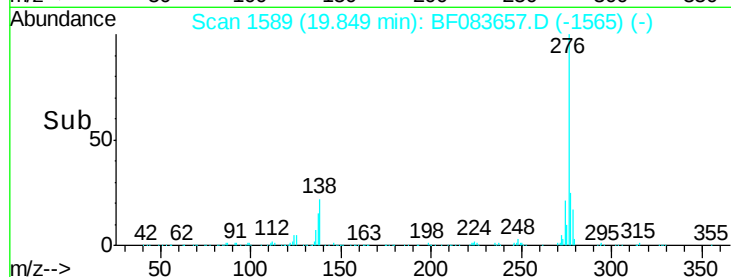
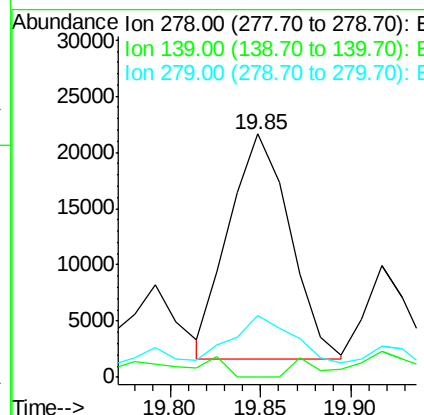
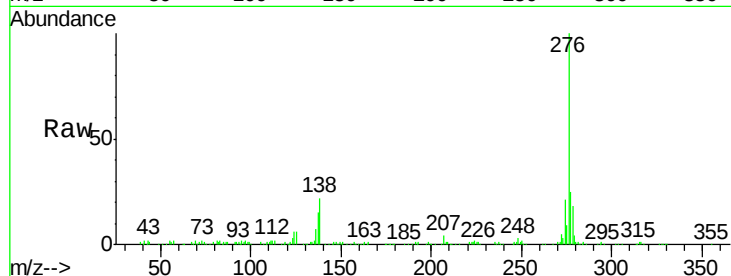
#90
Dibenzo(a,h)anthracene
Concen: 3.96 ng/mL
RT: 19.85 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(0-4)DL2

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2#
279	25.3	18.6	28.0

Manual Integrations
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12/10/2015 5:50:16 PM



#91
Benzo(g,h,i)perylene
Concen: 17.98 ng/mL
RT: 20.20 min Scan# 1620
Delta R.T. -0.02 min
Lab File: BF083657.D
Acq: 10 Dec 2015 00:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.2	28.8
138	21.2	19.5	29.3

