

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083450.D
 Acq On : 3 Dec 2015 8:25
 Operator : UM/IZ
 Sample : G4582-06
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)

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

Quant Time: Dec 03 11:17:56 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	159550m	20.00	ng	0.00
21) Naphthalene-d8	7.82	136	604837	20.00	ng	-0.01
38) Acenaphthene-d10	9.57	164	289705	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	464513	20.00	ng	-0.01
75) Chrysene-d12	14.74	240	375109	20.00	ng	-0.02
86) Perylene-d12	16.80	264	335026	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	1568682	147.53	ng	0.01
7) Phenol-d6	6.21	99	1975783	135.76	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1283600	93.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.37	330	360068	123.81	ng	-0.01
44) 2-Fluorobiphenyl	8.91	172	1671481	82.22	ng	-0.01
78) Terphenyl-d14	13.21	244	1293822	82.26	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.86	128	2760827	84.13	ng	99
37) 2-Methylnaphthalene	8.54	142	644342	29.38	ng	97
45) 1,1'-Biphenyl	9.00	154	350575	13.80	ng	95
48) Acenaphthylene	9.44	152	246497	7.98	ng	# 90
49) Dimethylphthalate	9.31	163	331247	14.07	ng	99
51) Acenaphthene	9.61	154	1027088	56.55	ng	99
57) Fluorene	10.12	166	892022	42.44	ng	98
70) Phenanthrene	11.15	178	2748928	100.00	ng	97
71) Anthracene	11.21	178	908818	32.84	ng	99
74) Fluoranthene	12.65	202	1076391	37.77	ng	100
77) Pyrene	12.97	202	1528351	58.34	ng	99
80) Benzo(a)anthracene	14.72	228	521266m	22.68	ng	
82) Chrysene	14.77	228	464549	20.92	ng	99
85) Indeno(1,2,3-cd)pyrene	18.18	276	95798	5.92	ng	95
87) Benzo(b)fluoranthene	16.28	252	328845m	15.30	ng	
88) Benzo(k)fluoranthene	16.32	252	116544m	5.74	ng	
89) Benzo(a)pyrene	16.73	252	324902	17.60	ng	99
90) Dibenzo(a,h)anthracene	18.19	278	32831m	2.04	ng	
91) Benzo(a,h,i)perylene	18.55	276	101821	6.45	ng	96

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

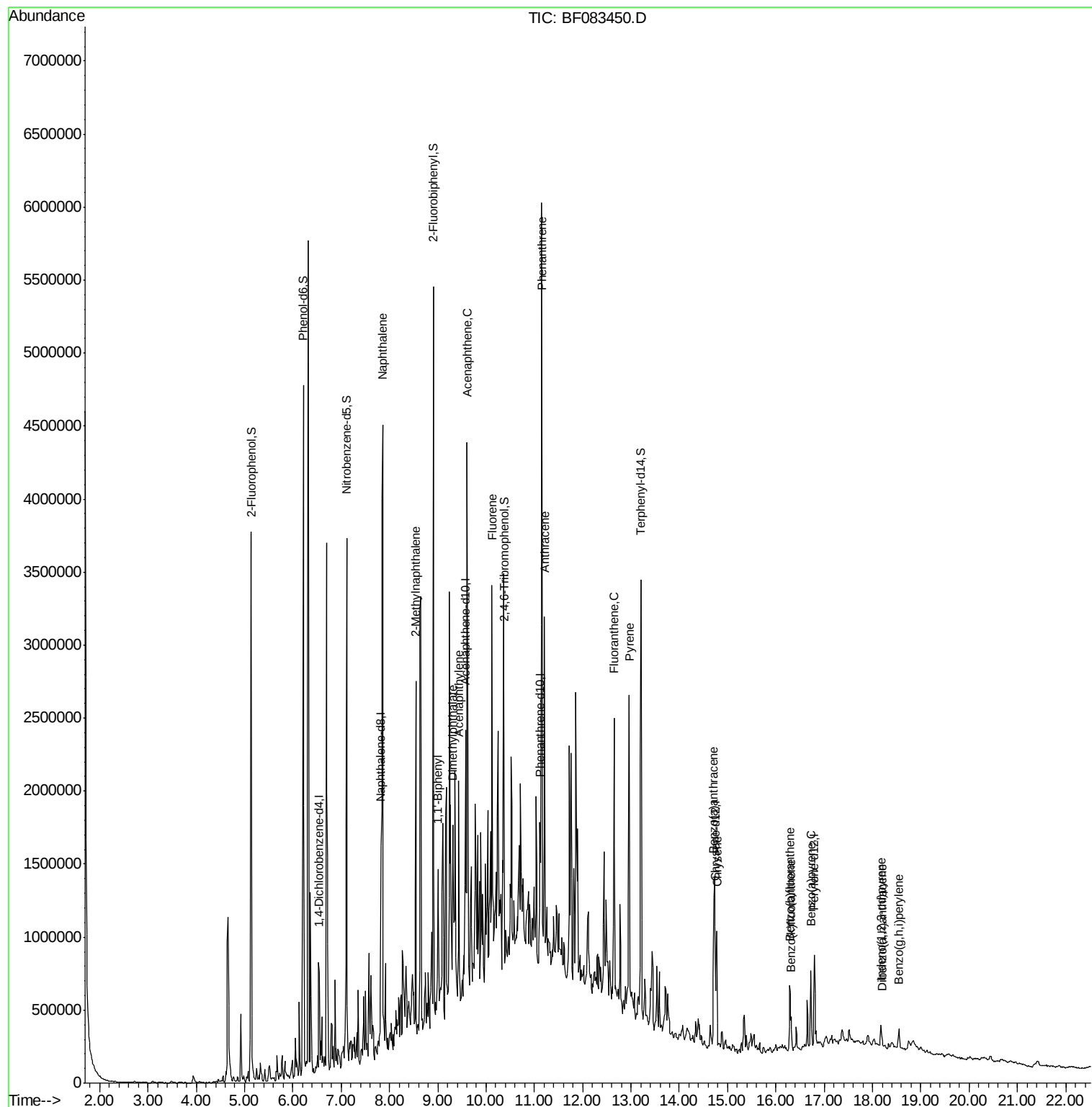
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 01 01:17:16 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.54 min Scan# 425

Delta R.T. 0.00 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Instrument :

BNA_F

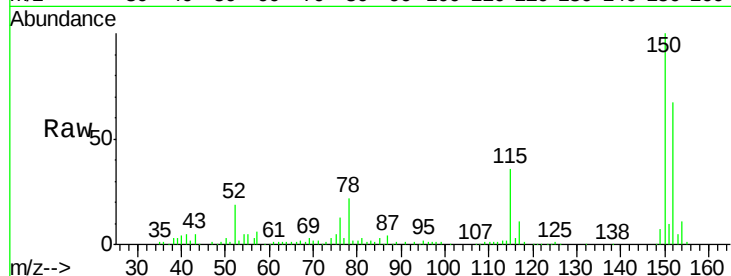
ClientSampleId :

SB-P3WC-04(10-13)

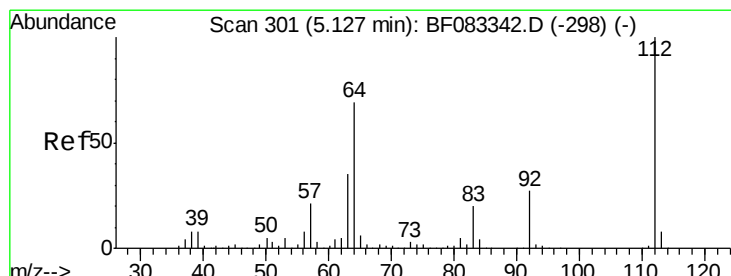
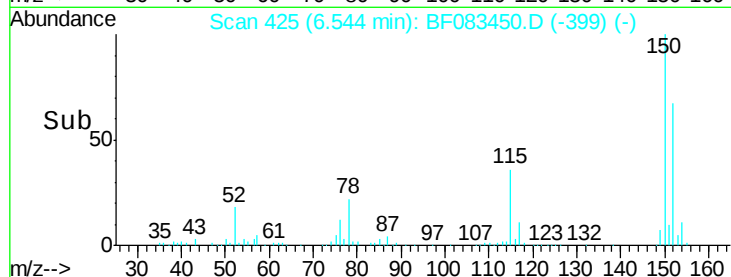
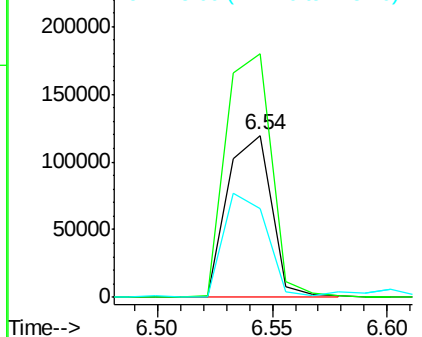
Tot Ion:	152	Resp:	159550
Ion Ratio	Lower	Upper	
152	100		
150	150.1	129.8	194.8
115	54.6	59.2	88.8

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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: 147.53 ng/mL

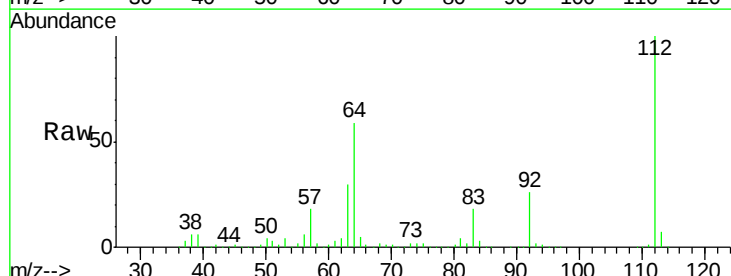
RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

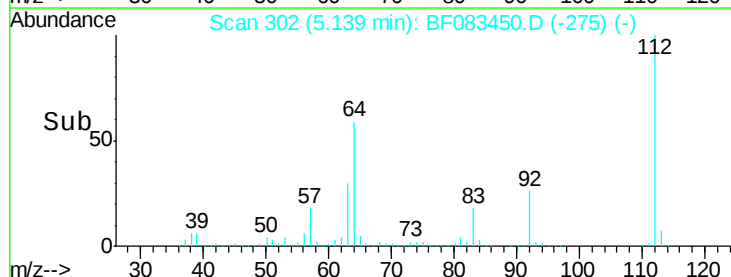
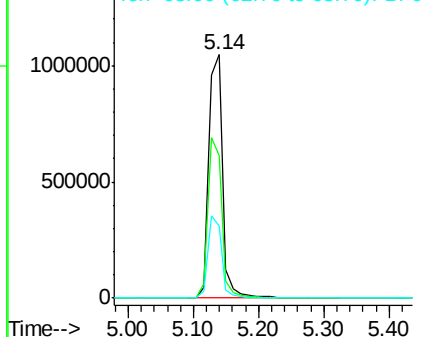
Lab File: BF083450.D

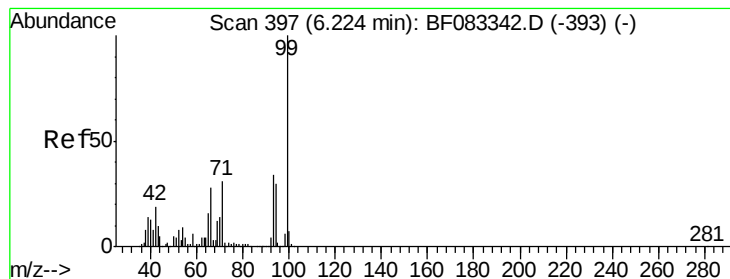
Acq: 3 Dec 2015 8:25

Tgt Ion:	112	Resp:	1568682
Ion Ratio	Lower	Upper	
112	100		
64	58.7	55.6	83.4
63	29.7	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: 135.76 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-04(10-13)

Tot Ion: 99 Resp: 1975783

Ion Ratio Lower Upper

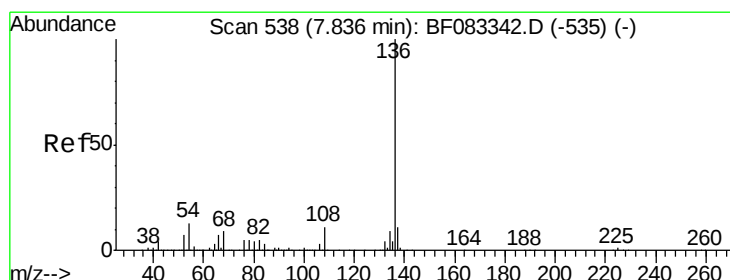
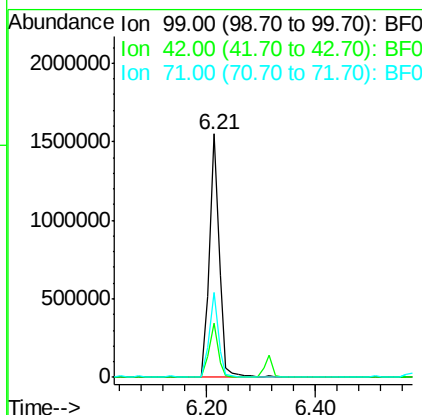
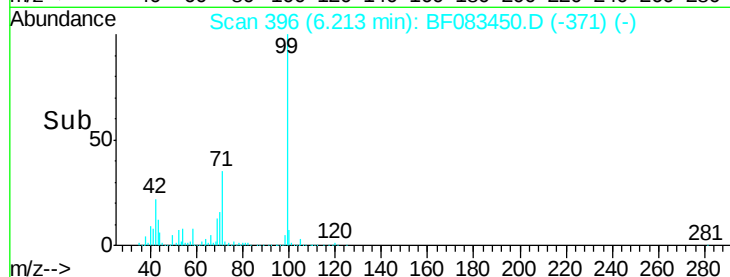
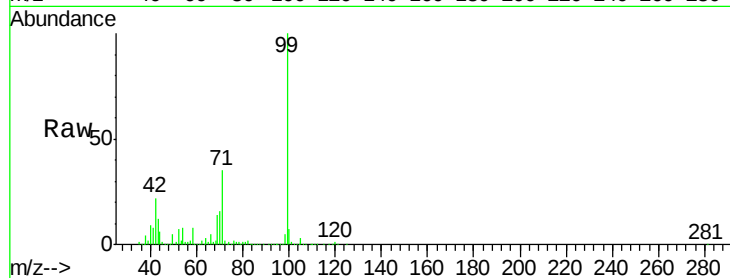
99 100

42 22.3 14.9 22.3

71 35.1 24.7 37.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.82 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Tgt Ion: 136 Resp: 604837

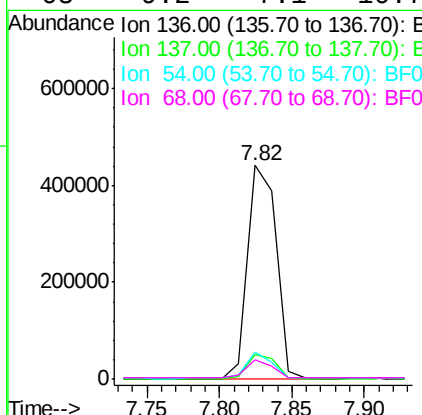
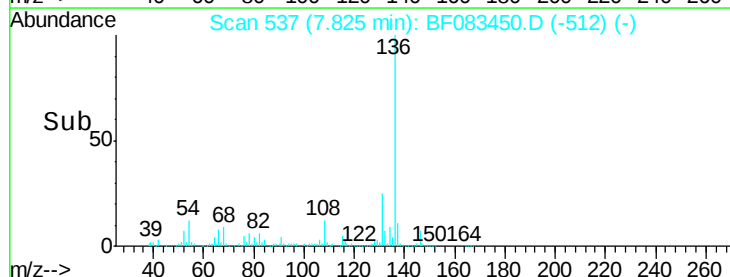
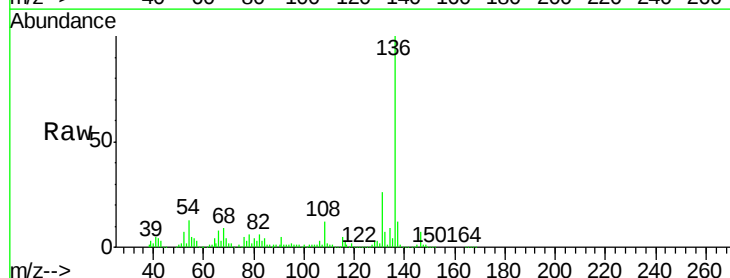
Ion Ratio Lower Upper

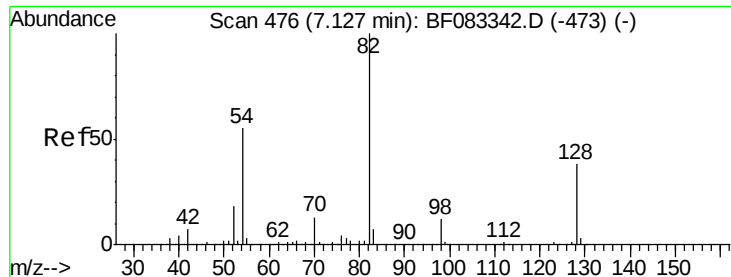
136 100

137 11.6 9.0 13.4

54 12.9 10.1 15.1

68 9.2 7.1 10.7





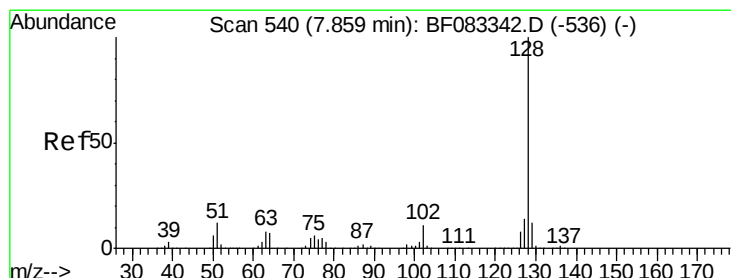
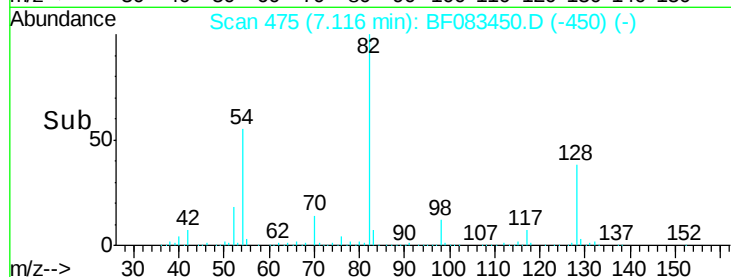
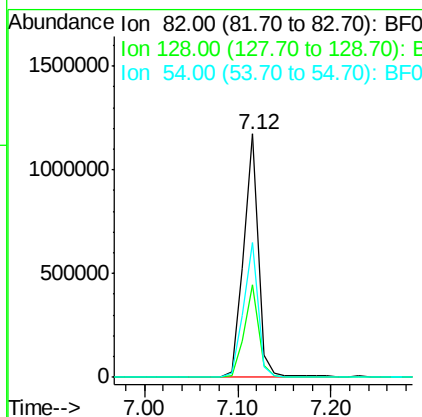
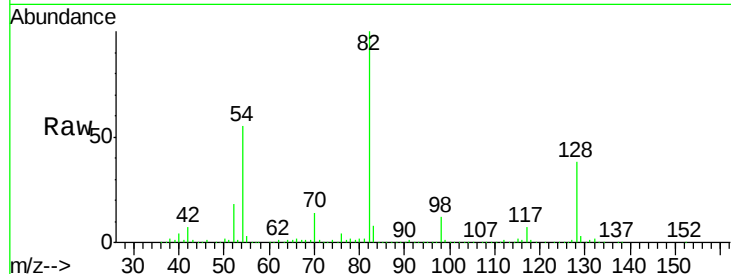
#23
Nitrobenzene-d5
Concen: 93.29 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)

Tot Ion	82	Resp	1283600
Ion Ratio	Lower	Upper	
82	100		
128	37.9	30.6	46.0
54	55.2	43.8	65.6

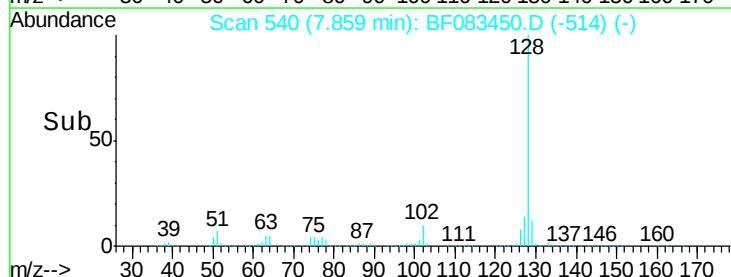
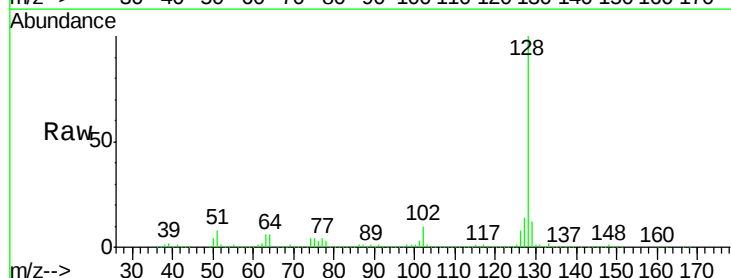
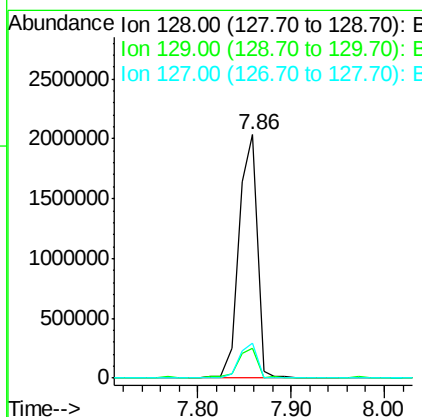
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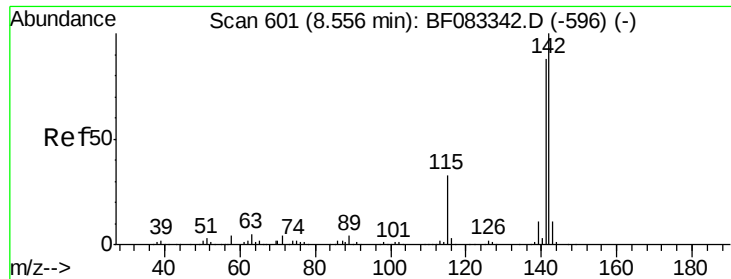
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#31
Naphthalene
Concen: 84.13 ng
RT: 7.86 min Scan# 540
Delta R.T. 0.00 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Tgt Ion	128	Resp	2760827
Ion Ratio	Lower	Upper	
128	100		
129	12.0	9.7	14.5
127	14.4	11.0	16.4





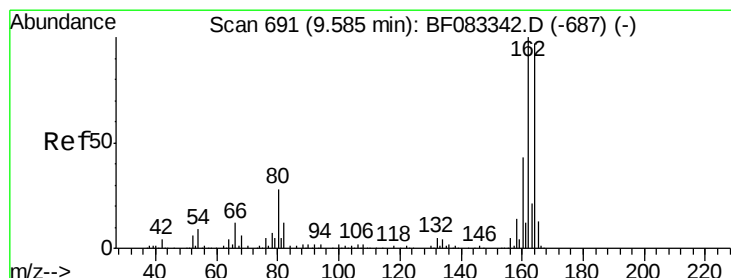
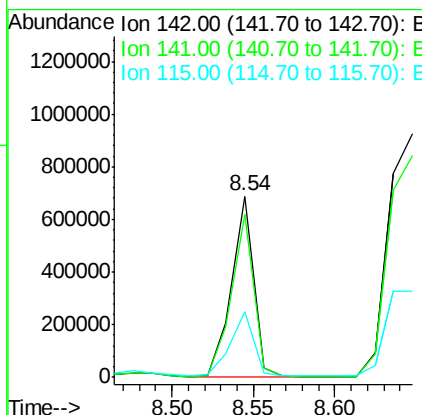
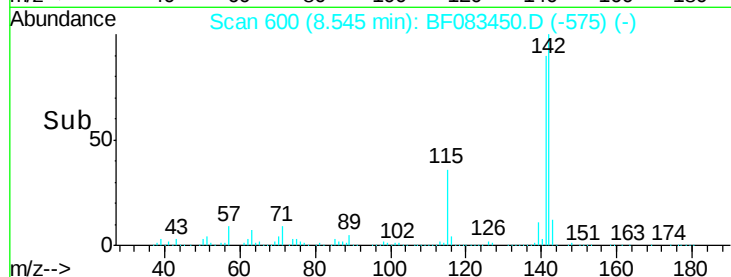
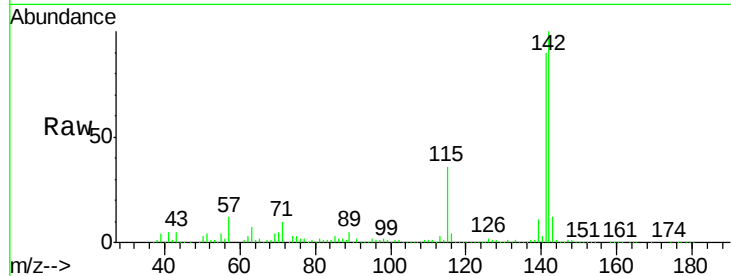
#37
2-Methylnaphthalene
Concen: 29.38 ng
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	70.6	105.8
115	36.2	26.2	39.2

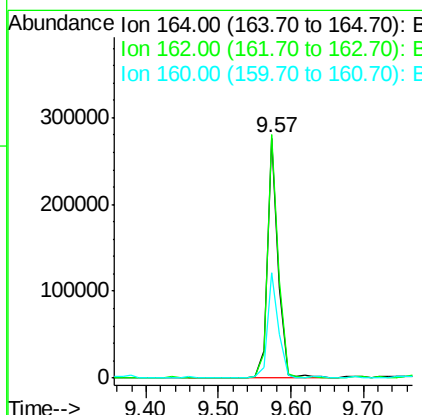
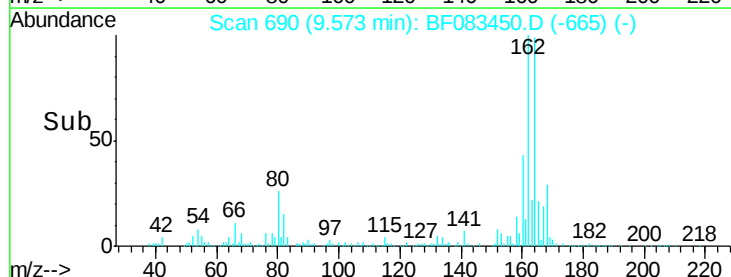
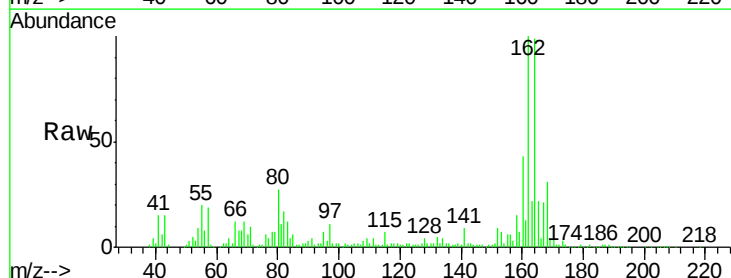
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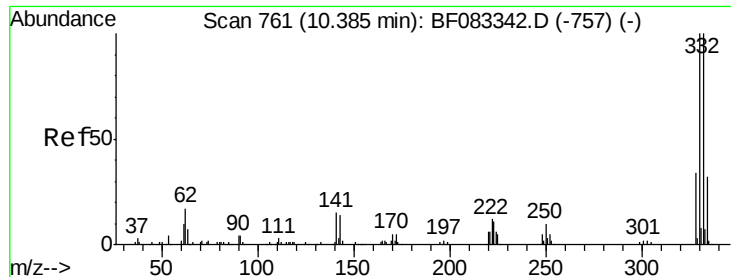
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.6	123.8
160	43.7	35.3	52.9





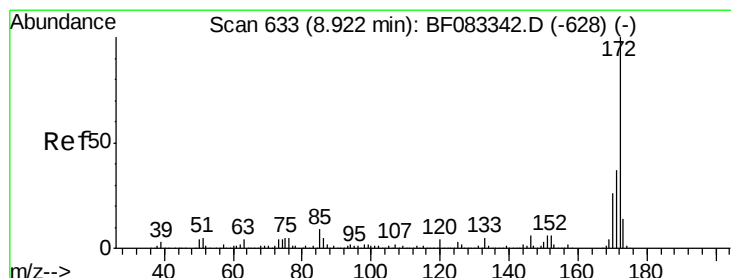
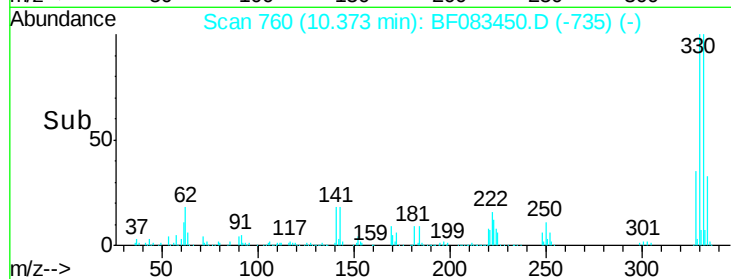
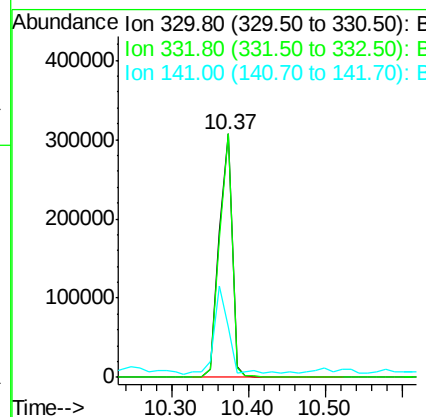
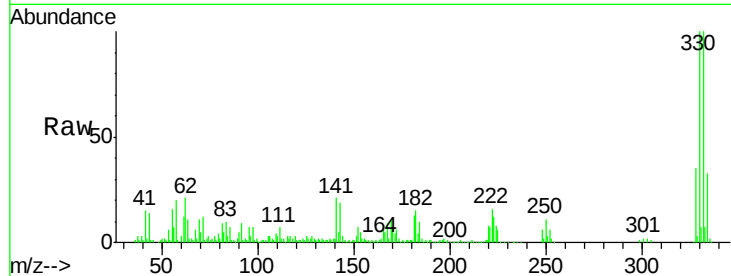
#41
 2,4,6-Tribromophenol
 Concen: 123.81 ng
 RT: 10.37 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	360068		
332	97.3	77.8	116.6	
141	36.8	29.4	44.0	

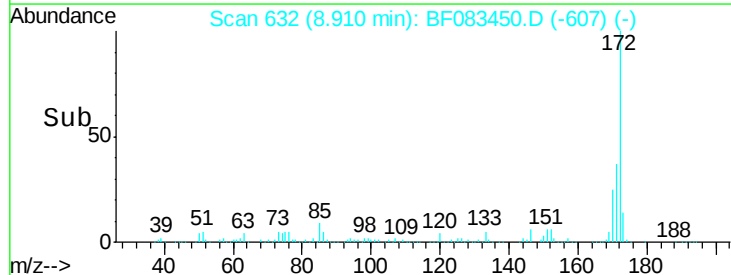
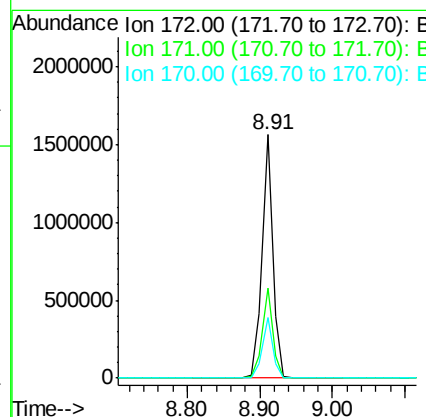
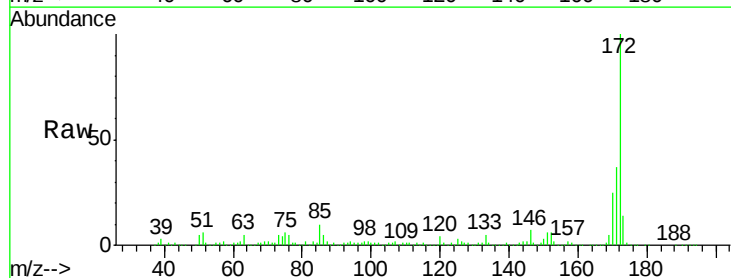
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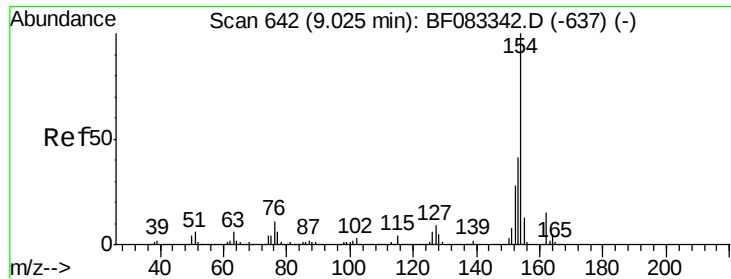
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#44
 2-Fluorobiphenyl
 Concen: 82.22 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1671481		
171	36.8	29.4	44.0	
170	25.0	20.4	30.6	





#45

1,1'-Biphenyl

Concen: 13.80 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Instrument :

BNA_F

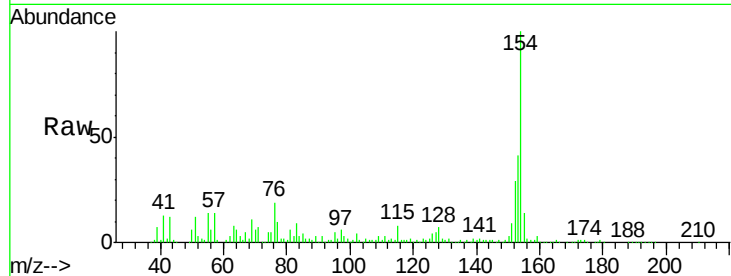
ClientSampleId :

SB-P3WC-04(10-13)

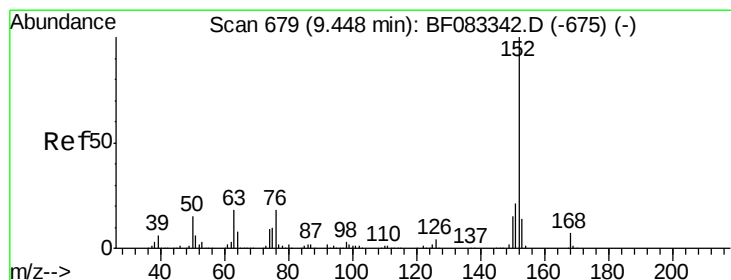
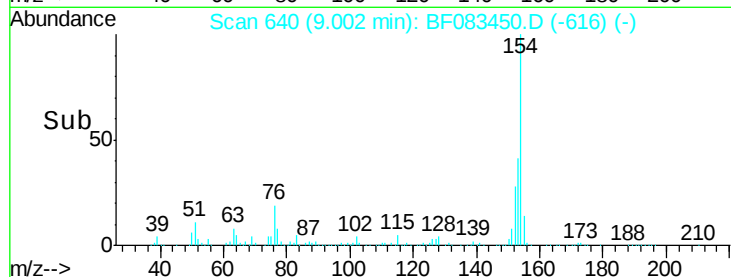
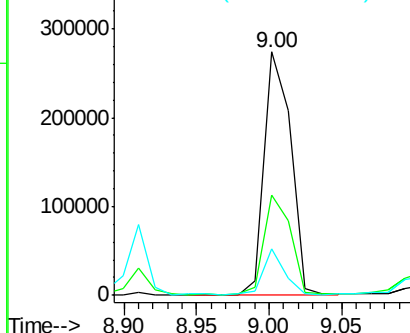
Tot Ion:	154	Resp:	350575
Ion Ratio		Lower	Upper
154	100		
153	41.1	20.6	60.6
76	18.9	0.0	30.5

Manual Integrations
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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: 7.98 ng

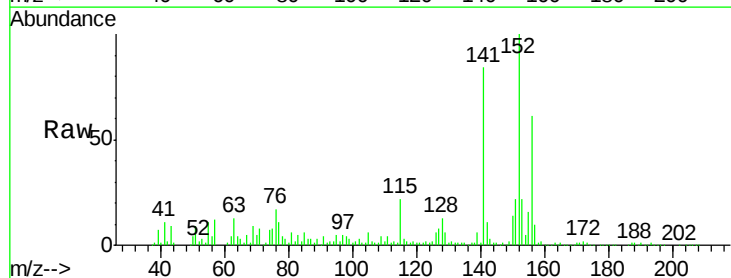
RT: 9.44 min Scan# 678

Delta R.T. -0.01 min

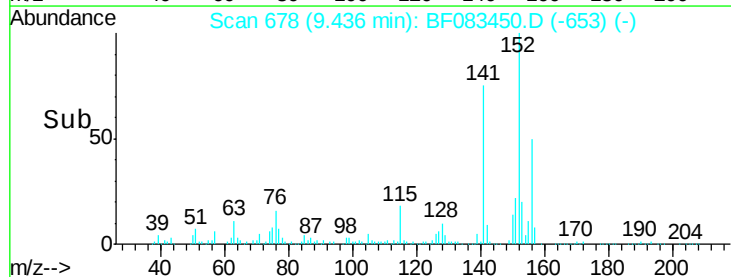
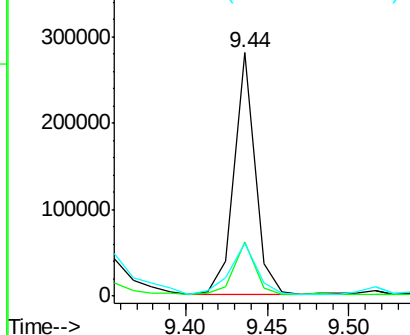
Lab File: BF083450.D

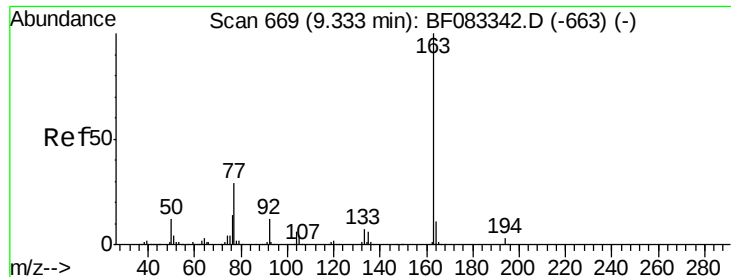
Acq: 3 Dec 2015 8:25

Tgt Ion:	152	Resp:	246497
Ion Ratio		Lower	Upper
152	100		
151	22.4	16.7	25.1
153	22.0	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





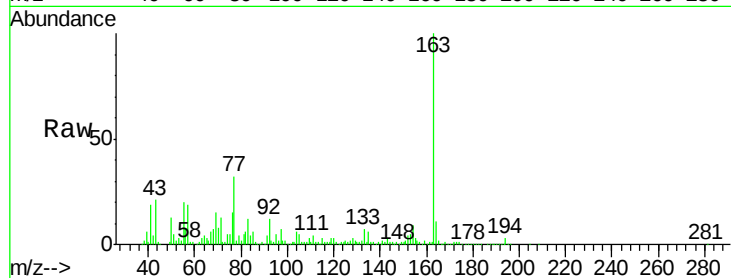
#49
Dimethylphthalate
Concen: 14.07 ng
RT: 9.31 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	331247		
194	3.2	2.7	4.1	
164	10.6	8.8	13.2	

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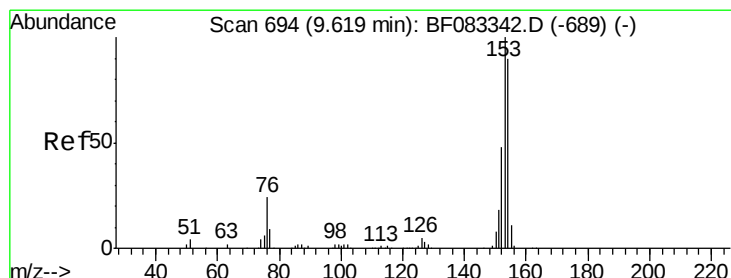
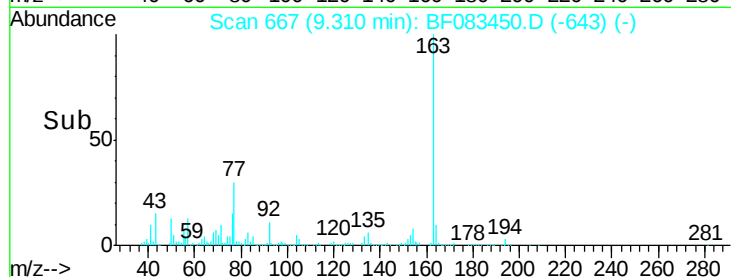
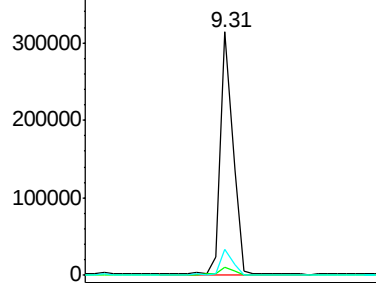


Abundance

Ion 163.00 (162.70 to 163.70): E

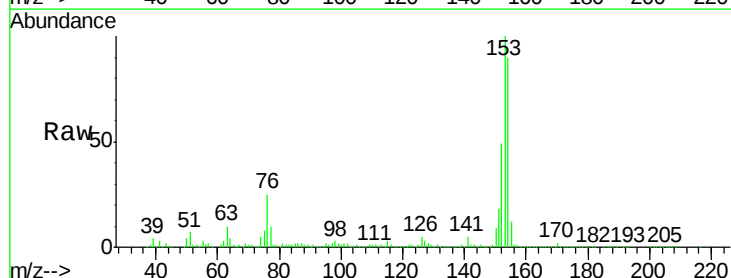
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 56.55 ng
RT: 9.61 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	1027088		
153	111.6	89.3	133.9	
152	54.3	42.5	63.7	

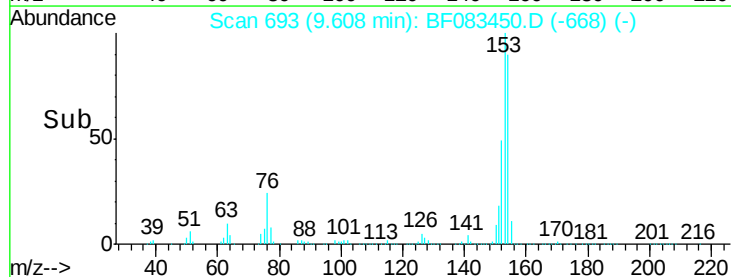
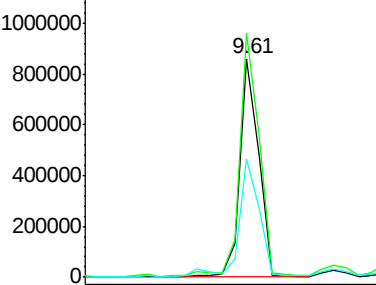


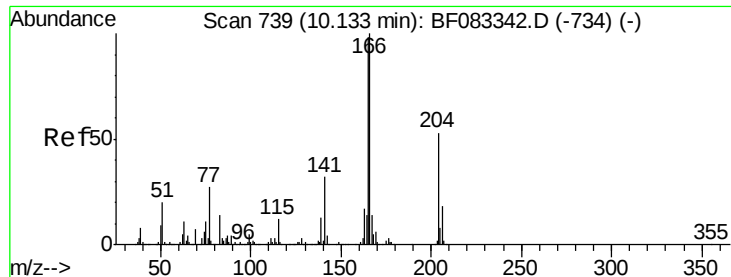
Abundance

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





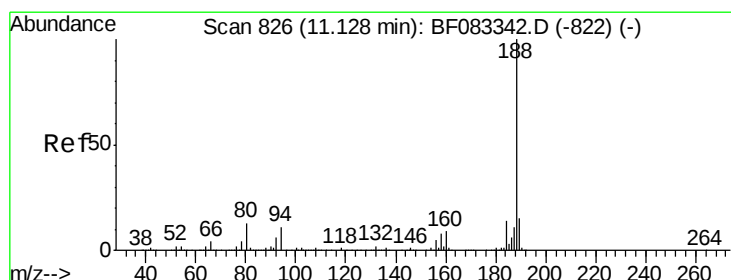
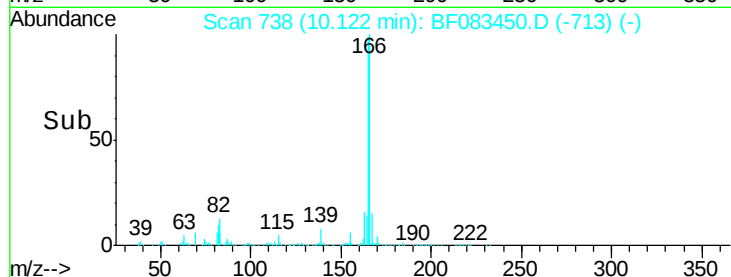
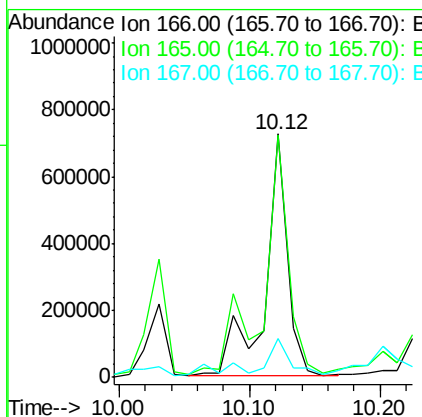
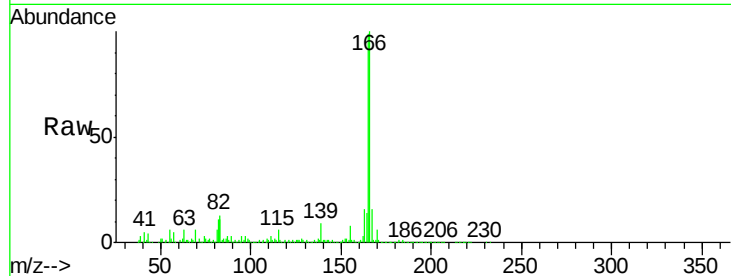
#57
Fluorene
 Concen: 42.44 ng
 RT: 10.12 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	892022		
165	99.4	78.3	117.5	
167	16.1	11.1	16.7	

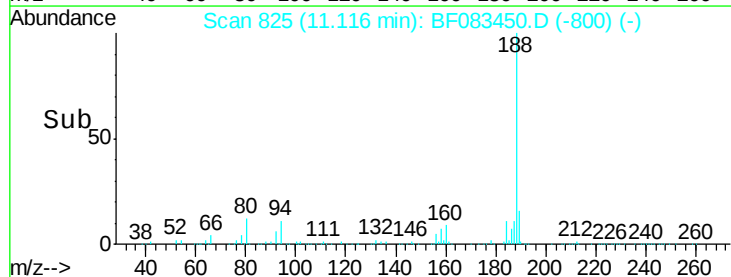
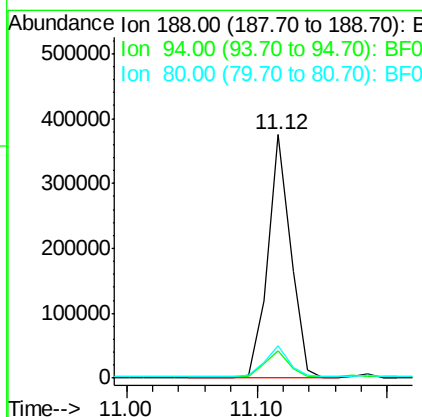
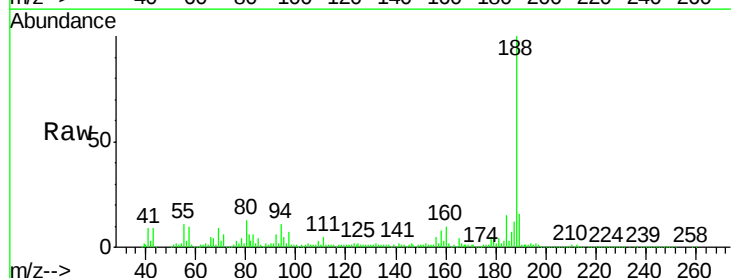
Manual Integrations
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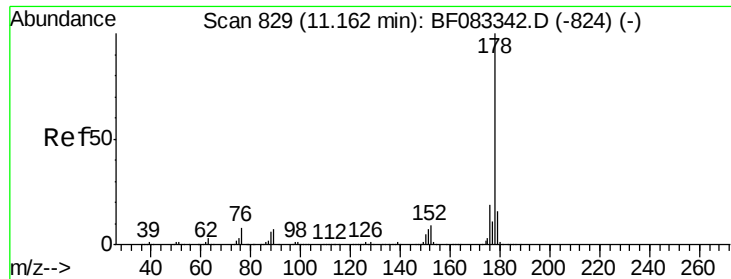
Mmdadoda
 12/3/2015 7:10:10 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.12 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	464513		
94	11.4	8.7	13.1	
80	13.2	10.3	15.5	





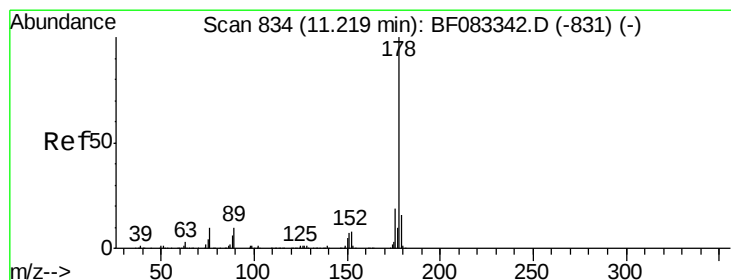
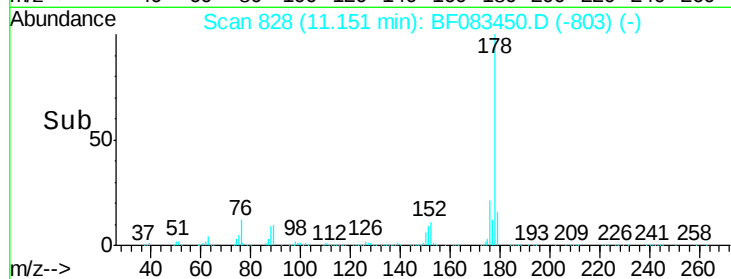
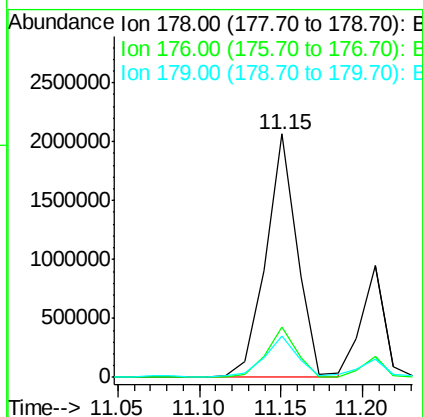
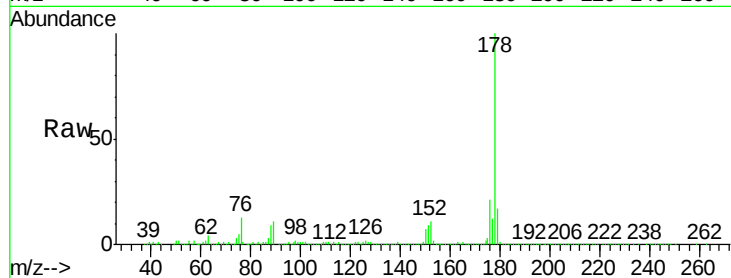
#70
Phenanthrene
Concen: 100.00 ng
RT: 11.15 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)

Tot Ion:178 Resp: 2748928
Ion Ratio Lower Upper
178 100
176 20.6 15.3 22.9
179 17.0 12.4 18.6

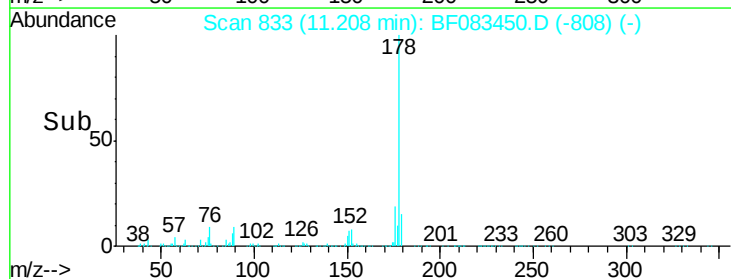
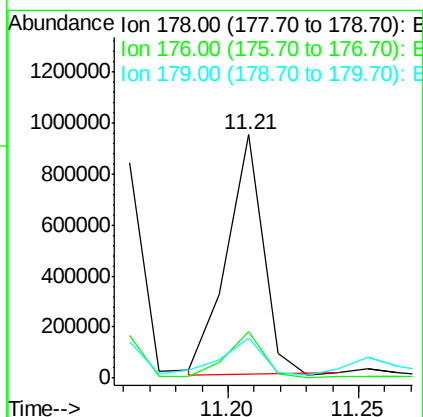
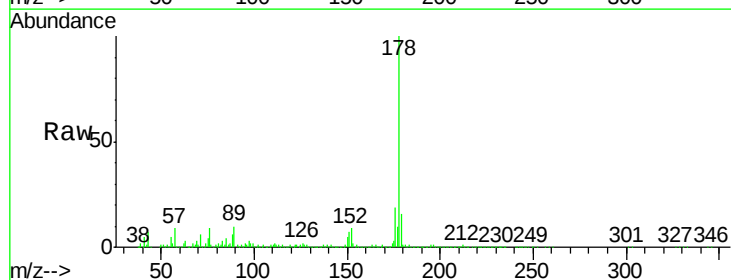
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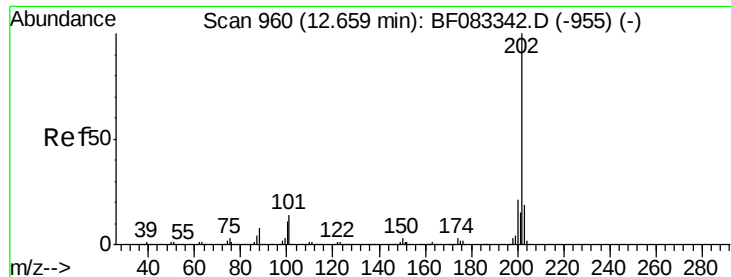
Mmdadoda
12/3/2015 7:10:10 PM



#71
Anthracene
Concen: 32.84 ng
RT: 11.21 min Scan# 833
Delta R.T. -0.01 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Tgt Ion:178 Resp: 908818
Ion Ratio Lower Upper
178 100
176 19.1 15.6 23.4
179 16.4 12.8 19.2





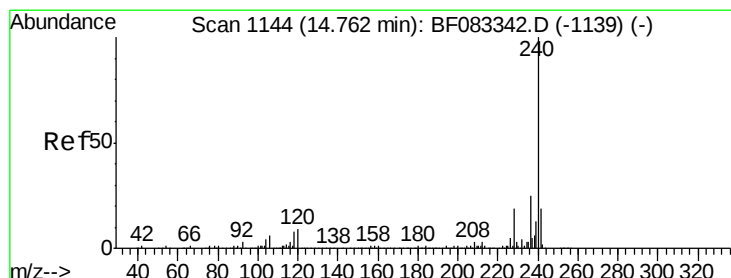
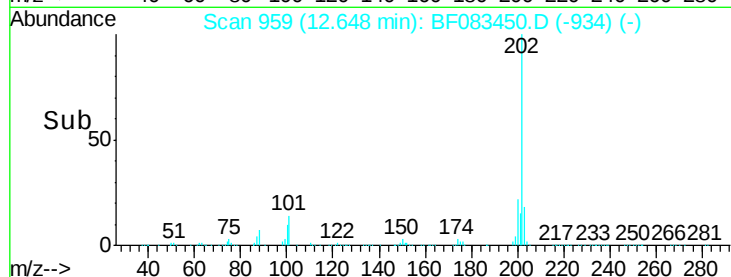
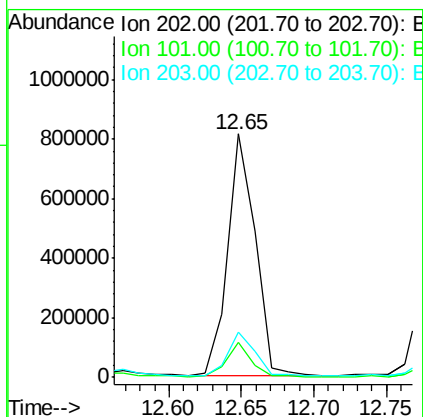
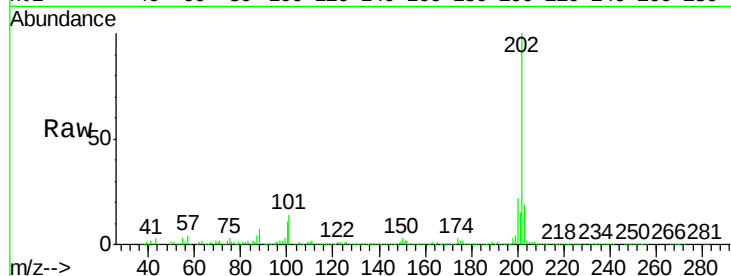
#74
 Fluoranthene
 Concen: 37.77 ng
 RT: 12.65 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	34.5
203	18.5	0.0	38.7

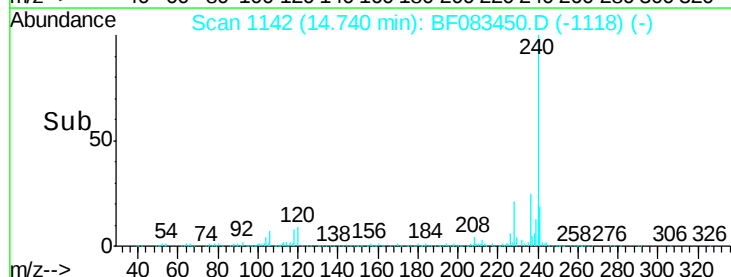
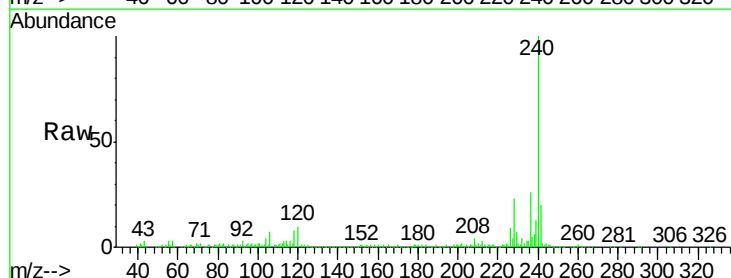
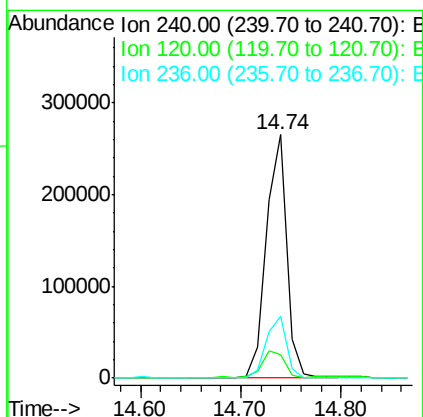
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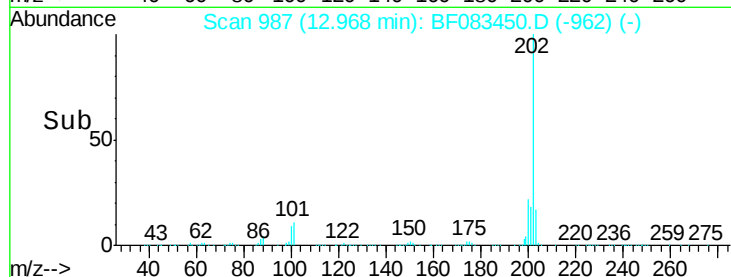
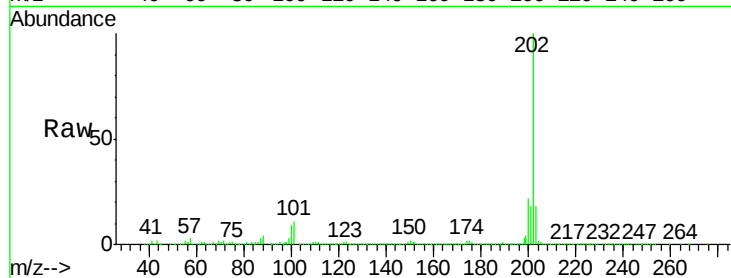
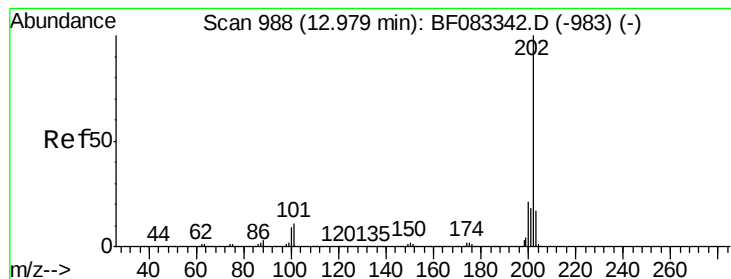
Mmdadoda
 12/3/2015 7:10:10 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.74 min Scan# 1142
 Delta R.T. -0.02 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.7	6.9	10.3
236	25.6	19.8	29.6





#77

Pvrene

Concen: 58.34 ng

RT: 12.97 min Scan# 987

Delta R.T. -0.01 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Tot Ion:	202	Resp:	1528351
Ion Ratio	Lower	Upper	
202	100		
200	21.5	16.9	25.3
203	18.0	13.9	20.9

Instrument :

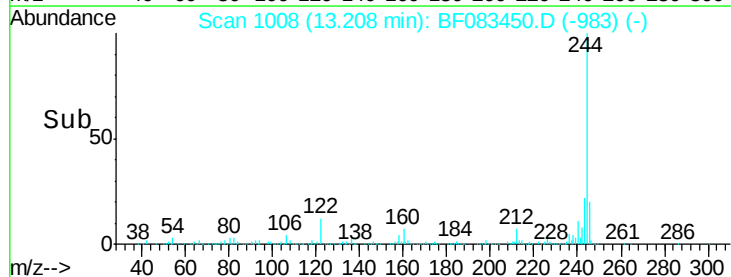
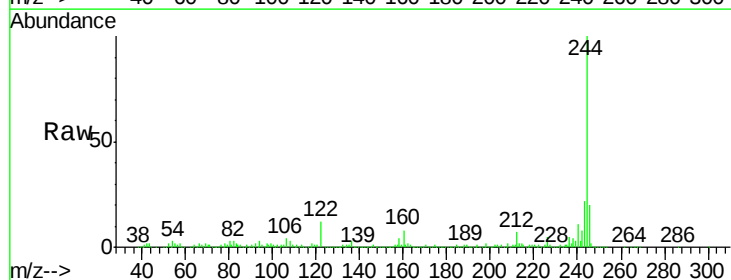
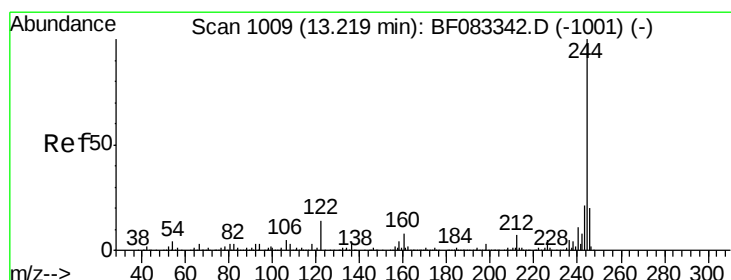
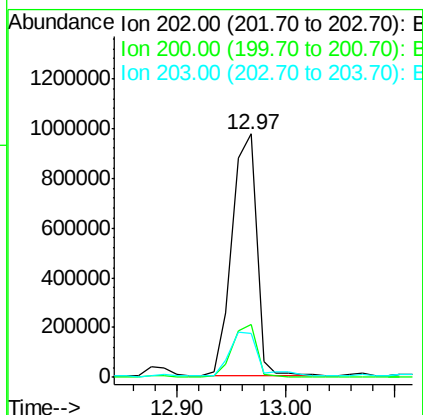
BNA_F

ClientSampleId :

SB-P3WC-04(10-13)

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#78

Terphenyl-d14

Concen: 82.26 ng

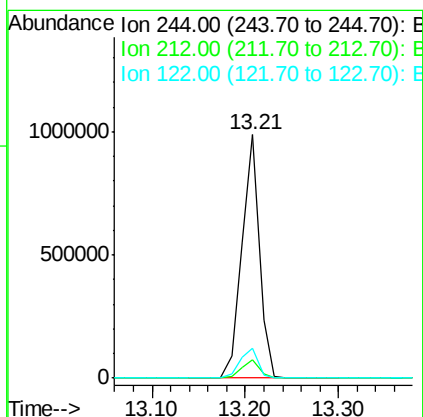
RT: 13.21 min Scan# 1008

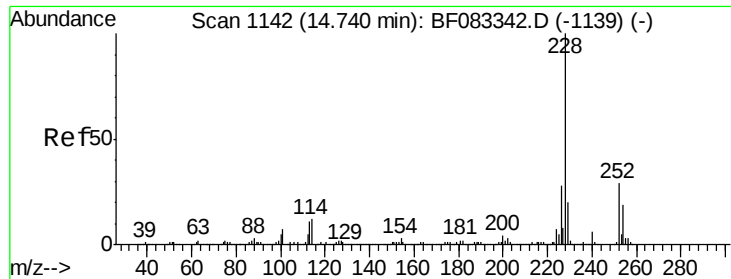
Delta R.T. -0.01 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Tgt Ion:	244	Resp:	1293822
Ion Ratio	Lower	Upper	
244	100		
212	7.4	5.8	8.8
122	12.2	11.0	16.4





#80

Benzo(a)anthracene

Concen: 22.68 ng

RT: 14.72 min Scan# 1140

Delta R.T. -0.02 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-04(10-13)

Tot Ion:228 Resp: 521266

Ion Ratio Lower Upper

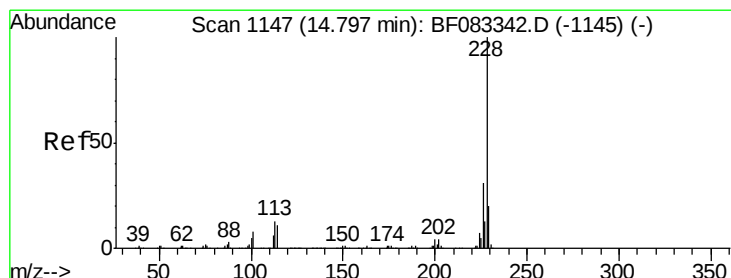
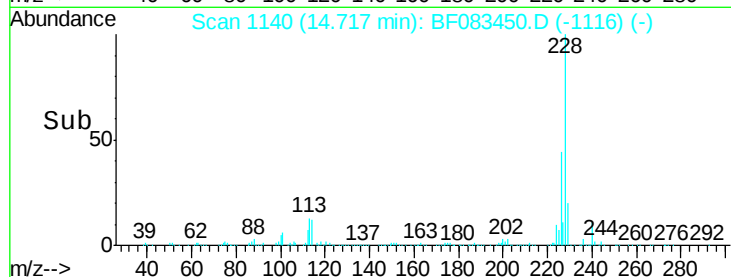
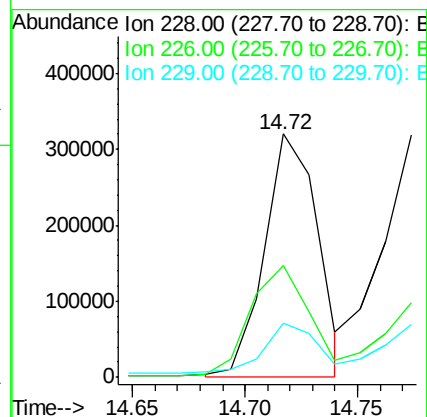
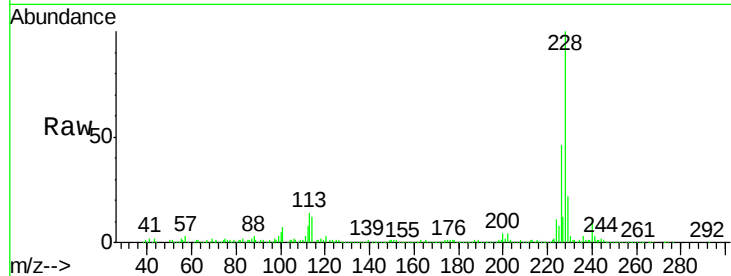
228 100

226 45.7 22.2 33.4#

229 22.1 16.1 24.1

Manual Integrations
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#82

Chrysene

Concen: 20.92 ng

RT: 14.77 min Scan# 1145

Delta R.T. -0.02 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

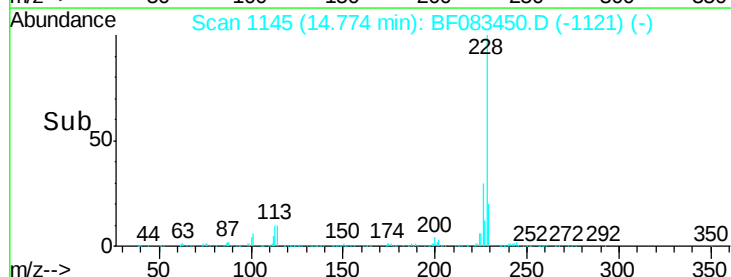
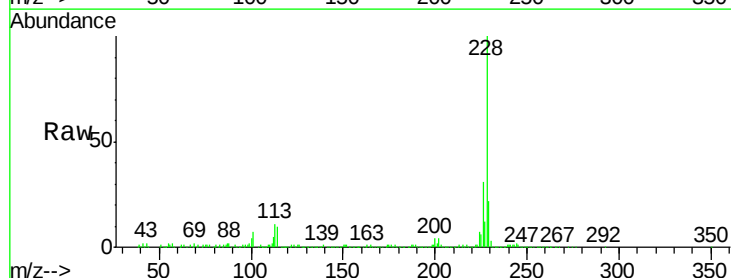
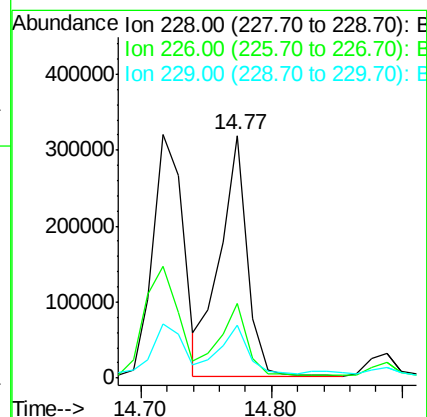
Tgt Ion:228 Resp: 464549

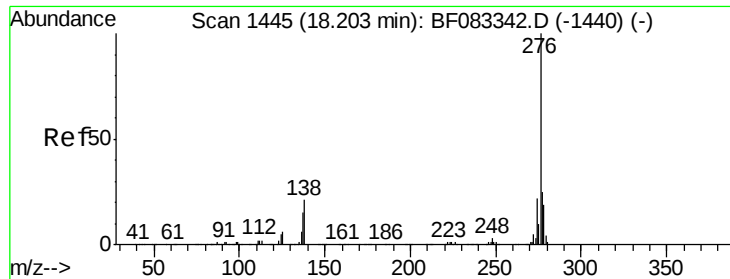
Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 21.6 16.2 24.2





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.92 ng

RT: 18.18 min Scan# 1443

Delta R.T. -0.02 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Instrument :

BNA_F

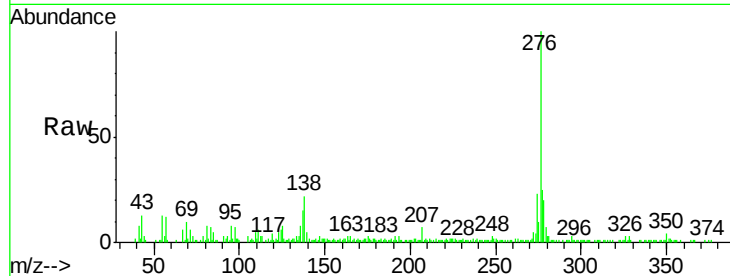
ClientSampleId :

SB-P3WC-04(10-13)

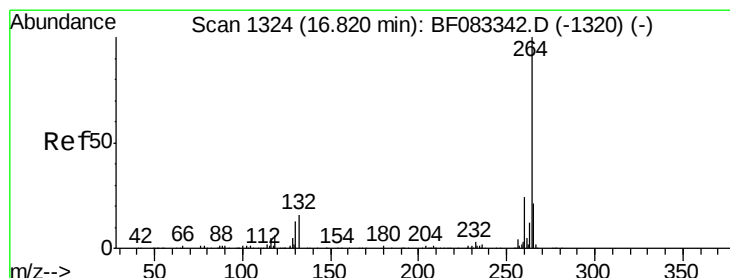
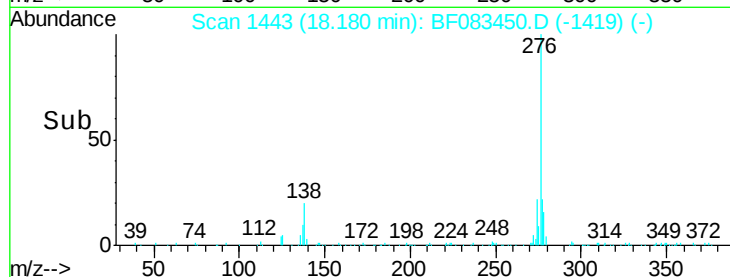
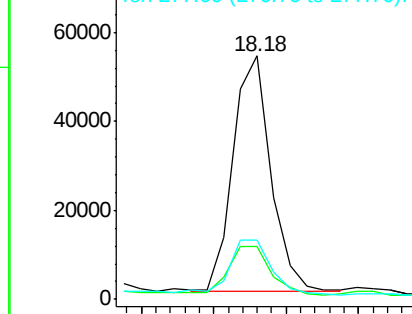
Tot Ion:	276	Resp:	95798
Ion Ratio	Lower	Upper	
276	100		
138	22.8	21.2	31.8
277	26.7	20.0	30.0

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



#86

Perylene-d12

Concen: 20.00 ng

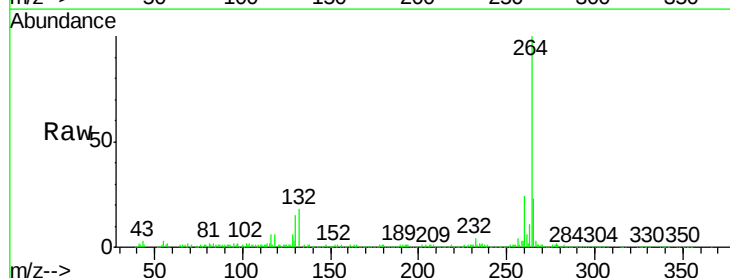
RT: 16.80 min Scan# 1322

Delta R.T. -0.02 min

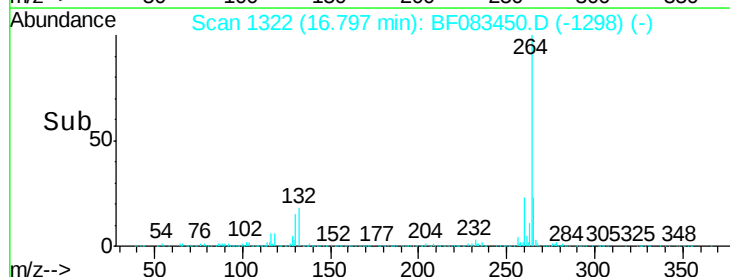
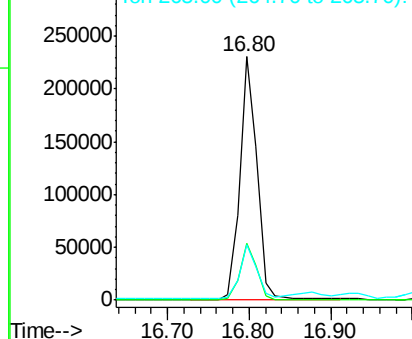
Lab File: BF083450.D

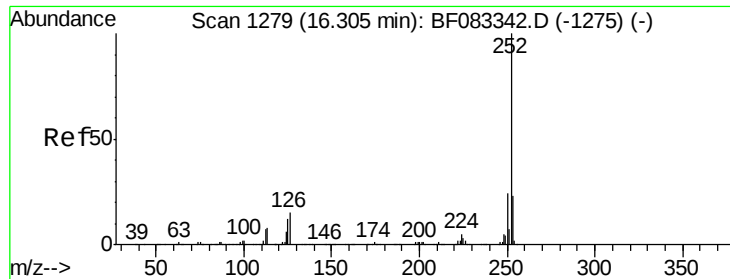
Acq: 3 Dec 2015 8:25

Tgt Ion:	264	Resp:	335026
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.0	28.4
265	22.9	16.8	25.2



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





#87

Benzo(b)fluoranthene

Concen: 15.30 ng m

RT: 16.28 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Instrument :

BNA_F

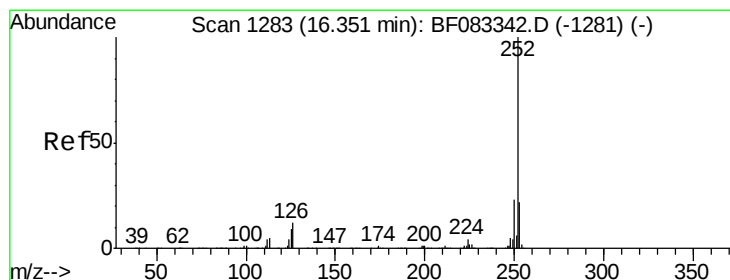
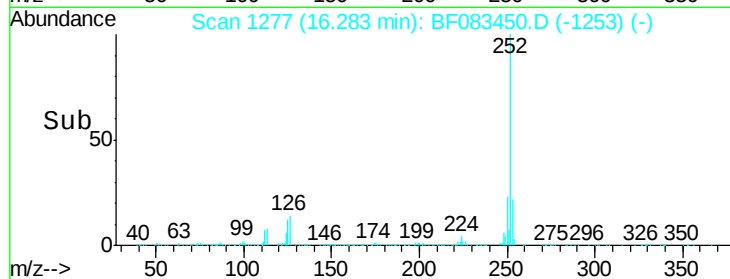
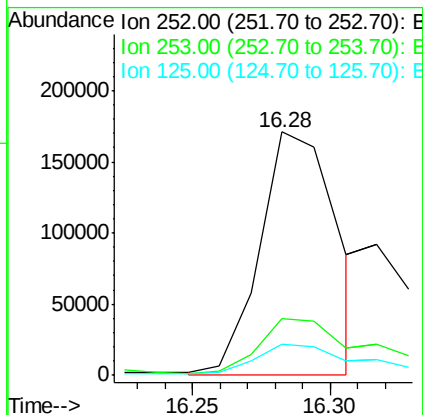
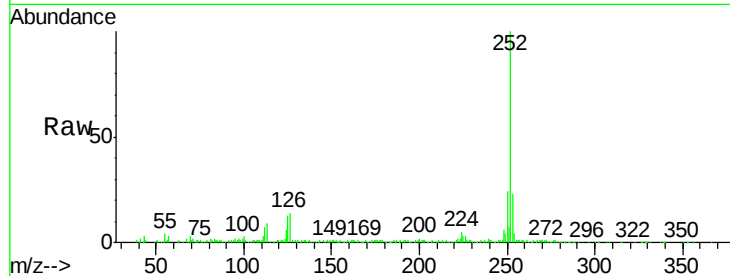
ClientSampleId :

SB-P3WC-04(10-13)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	13.0	9.6	14.4

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



#88

Benzo(k)fluoranthene

Concen: 5.74 ng m

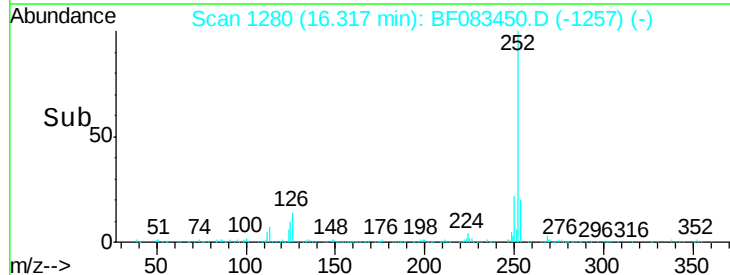
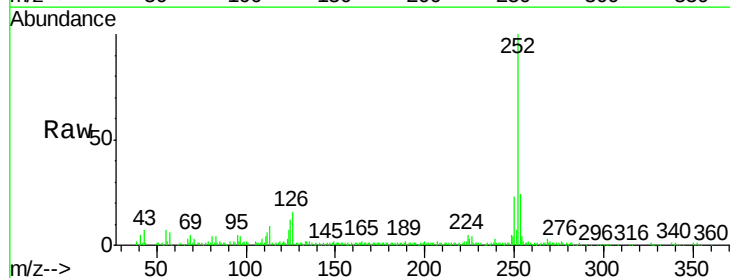
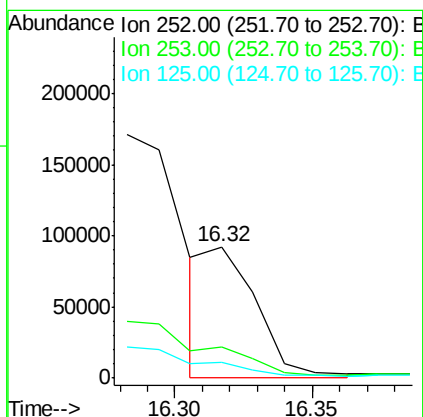
RT: 16.32 min Scan# 1280

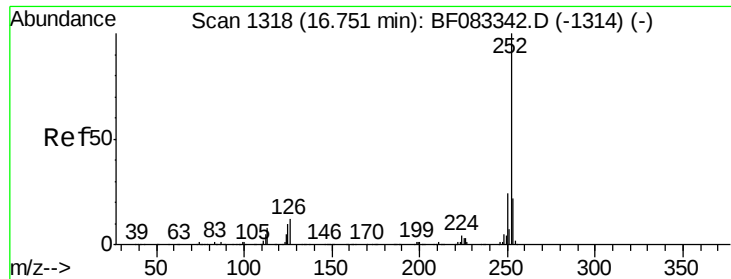
Delta R.T. -0.03 min

Lab File: BF083450.D

Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.4	26.0
125	11.9	7.5	11.3





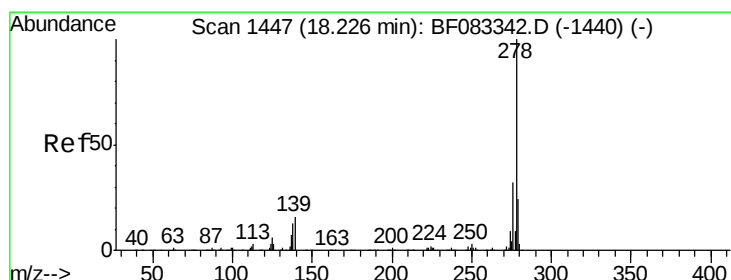
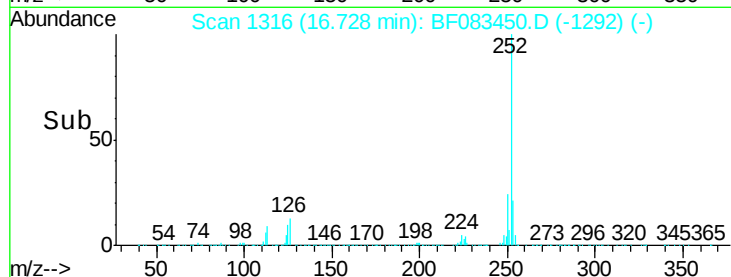
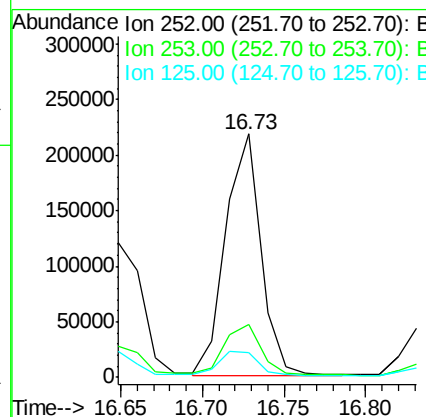
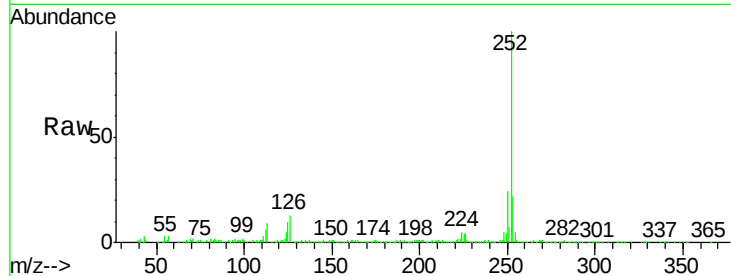
#89
Benzo(a)pyrene
Concen: 17.60 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	10.2	7.8	11.8

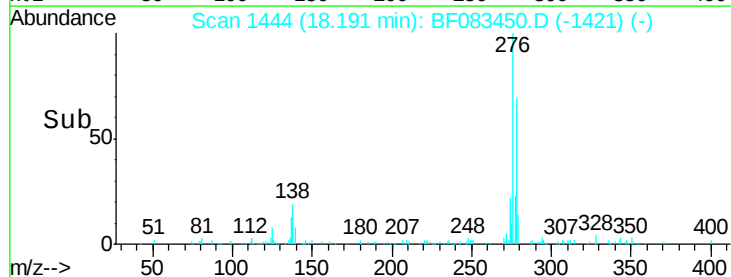
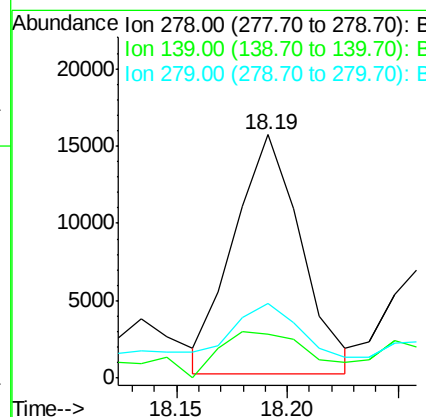
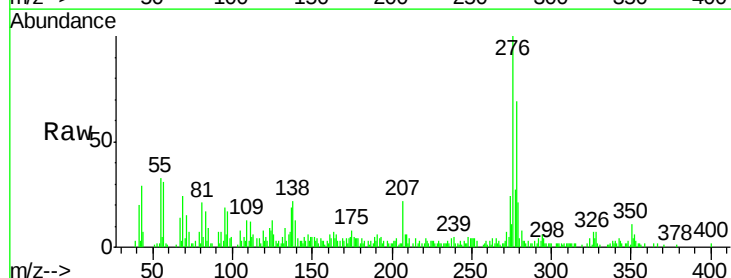
Manual Integrations
APPROVED

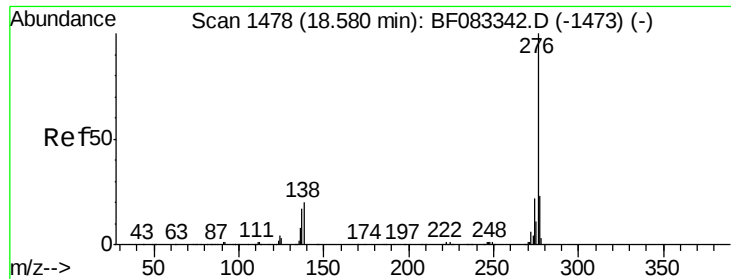
Mmdadoda
12/3/2015 7:10:10 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.04 ng m
RT: 18.19 min Scan# 1444
Delta R.T. -0.03 min
Lab File: BF083450.D
Acq: 3 Dec 2015 8:25

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.3	13.1	19.7
279	30.7	19.2	28.8#





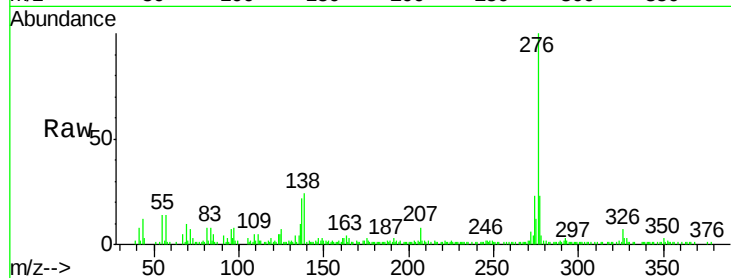
#91
 Benzo(a,h,i)perylene
 Concen: 6.45 ng
 RT: 18.55 min Scan# 1475
 Delta R.T. -0.03 min
 Lab File: BF083450.D
 Acq: 3 Dec 2015 8:25

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.6	28.0
138	24.0	16.1	24.1

Manual Integrations
 APPROVED

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



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

