

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111815\
 Data File : BF083035.D
 Acq On : 19 Nov 2015 4:16
 Operator : UM/IZ
 Sample : G4426-08
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-8

Manual Integrations
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 11/19/2015 6:45:09 PM

Quant Time: Nov 19 06:38:57 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 18 13:32:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	110606	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	424503	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	185901	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	306763	20.00	ng	0.00
75) Chrysene-d12	13.89	240	254053	20.00	ng	0.00
86) Perylene-d12	15.29	264	215622	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	1079398	151.84	ng	0.01
7) Phenol-d6	6.40	99	1500838	158.81	ng	0.00
23) Nitrobenzene-d5	7.30	82	763273	78.24	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	215872	101.28	ng	0.00
44) 2-Fluorobiphenyl	9.10	172	1142179	88.06	ng	0.00
78) Terphenyl-d14	12.84	244	696228	65.00	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.04	128	443257	18.93	ng	98
37) 2-Methylnaphthalene	8.74	142	115468m	7.62	ng	
45) 1,1'-Biphenyl	9.20	154	42758	2.68	ng	97
48) Acenaphthylene	9.63	152	60474	3.10	ng	97
49) Dimethylphthalate	9.49	163	336262	22.08	ng	99
51) Acenaphthene	9.80	154	261645	21.17	ng	98
54) Dibenzofuran	9.97	168	302089	18.13	ng	93
57) Fluorene	10.32	166	336159	24.91	ng	98
70) Phenanthrene	11.29	178	2755592	154.68	ng	98
71) Anthracene	11.33	178	910801	48.54	ng	97
72) Carbazole	11.48	167	387400	23.58	ng	99
74) Fluoranthene	12.48	202	2841783	148.65	ng	95
77) Pyrene	12.70	202	2825708	161.96	ng	99
80) Benzo(a)anthracene	13.88	228	1692802	106.55	ng	98
82) Chrysene	13.93	228	1259616	86.57	ng	97
85) Indeno(1,2,3-cd)pyrene	16.61	276	474919	37.90	ng	95
87) Benzo(b)fluoranthene	14.90	252	1233006m	89.09	ng	
88) Benzo(k)fluoranthene	14.91	252	563072m	45.86	ng	
89) Benzo(a)pyrene	15.23	252	925746	77.20	ng	96
90) Dibenzo(a,h)anthracene	16.61	278	128175m	12.62	ng	
91) Benzo(g,h,i)perylene	17.00	276	406454	41.79	ng	97

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

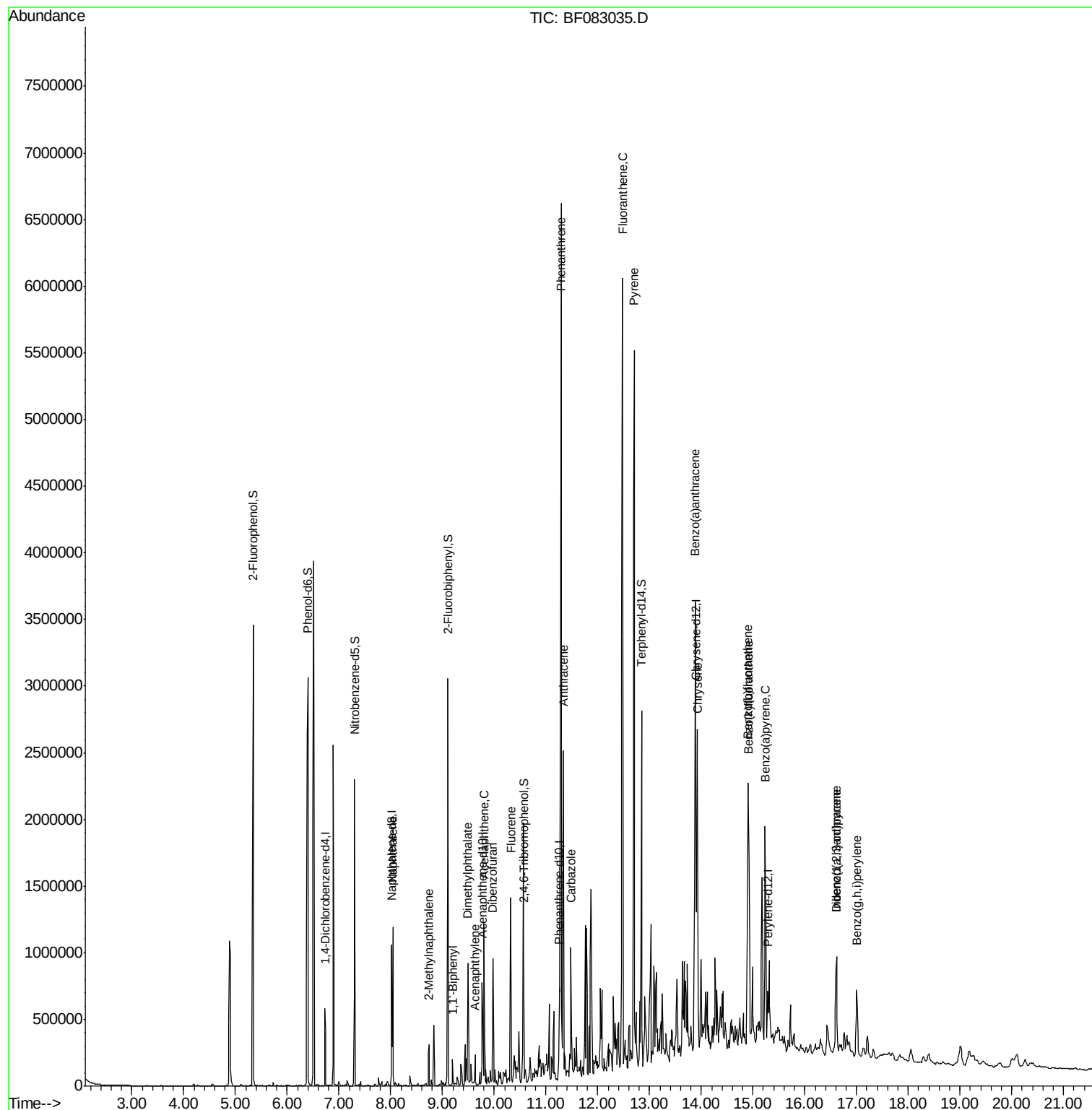
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111815\
Data File : BF083035.D
Acq On : 19 Nov 2015 4:16
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ALS Vial : 29 Sample Multiplier: 1

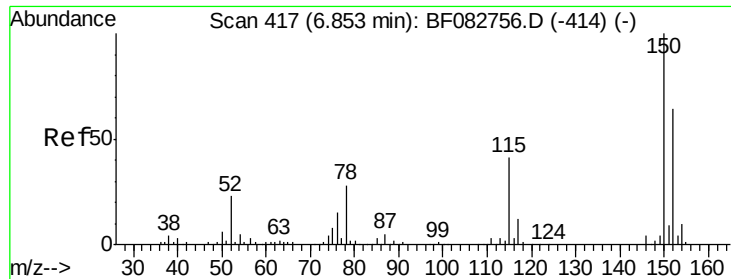
Instrument :
BNA_F
ClientSampleId :
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Quant Time: Nov 19 06:38:57 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 18 13:32:32 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.01 min

Lab File: BF083035.D

Acq: 19 Nov 2015 4:16

Instrument :

BNA_F

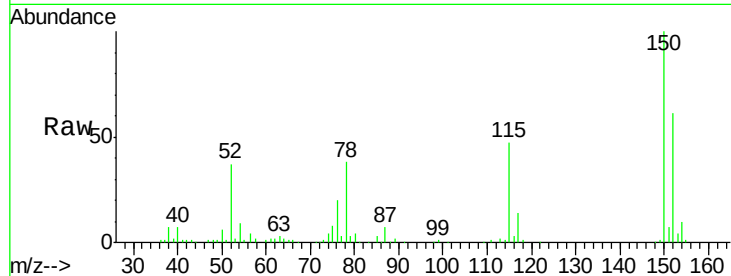
ClientSampleId :

SB-8

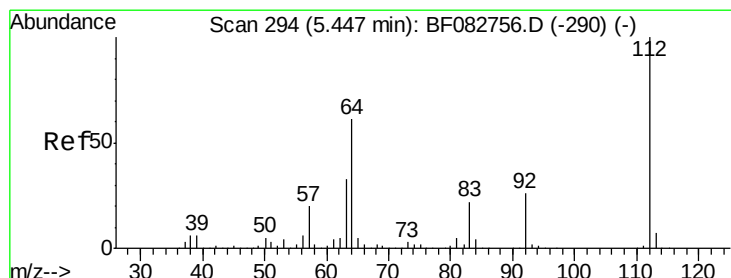
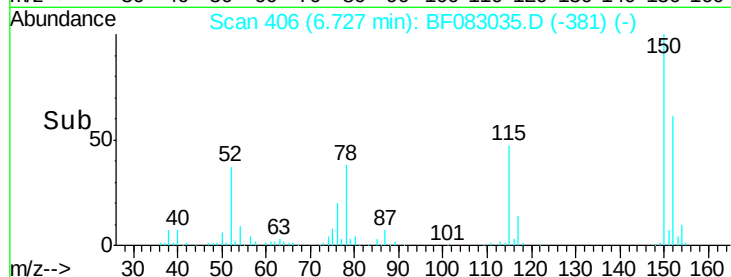
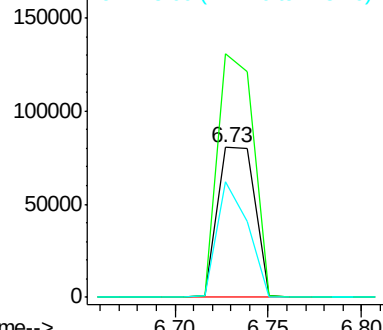
Tgt Ion	Ratio	Lower	Upper
152	100		
150	162.6	127.0	190.4
115	77.2	47.0	70.6

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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: 151.84 ng

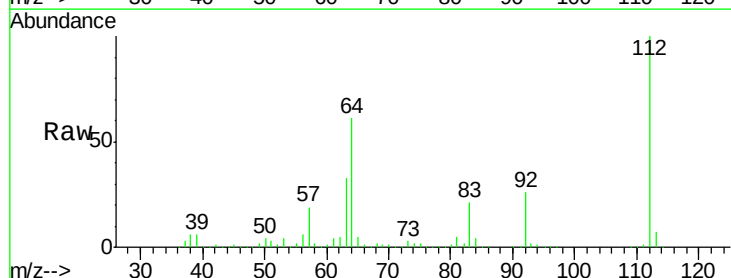
RT: 5.34 min Scan# 285

Delta R.T. 0.01 min

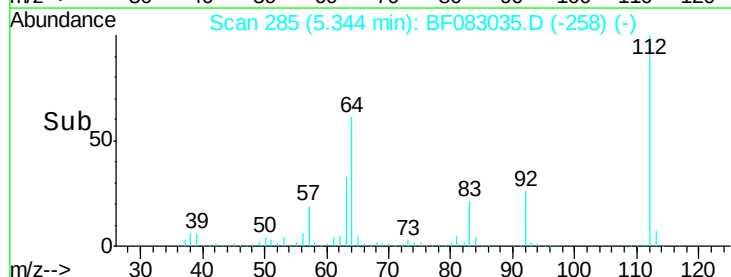
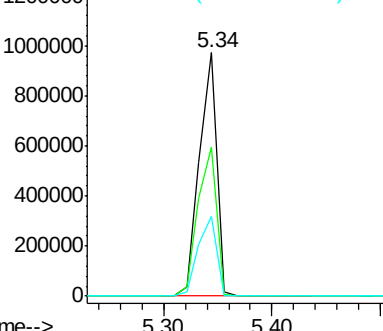
Lab File: BF083035.D

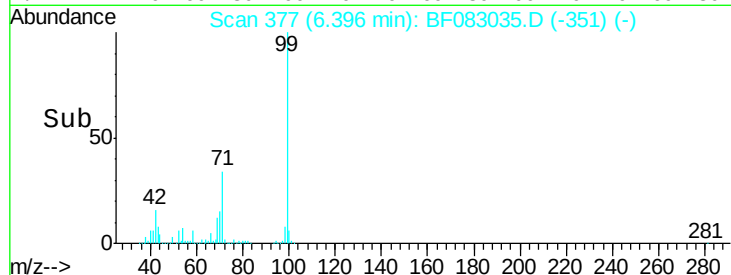
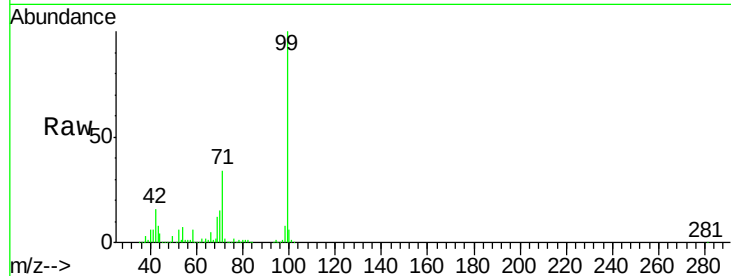
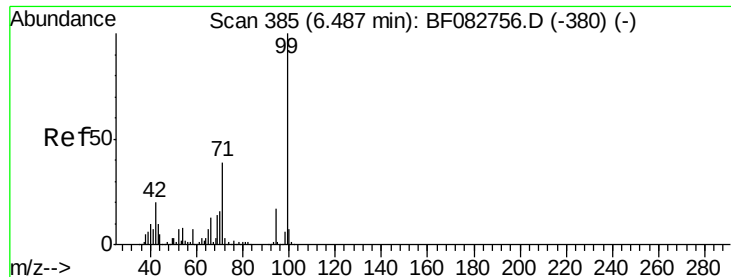
Acq: 19 Nov 2015 4:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.1	48.9	73.3
63	32.9	28.1	42.1



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: 158.81 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.00 min

Lab File: BF083035.D

Acq: 19 Nov 2015 4:16

Tgt Ion: 99 Resp: 1500838

Ion Ratio Lower Upper

99 100

42 15.6 19.2 28.8#

71 33.6 35.0 52.4#

Instrument :

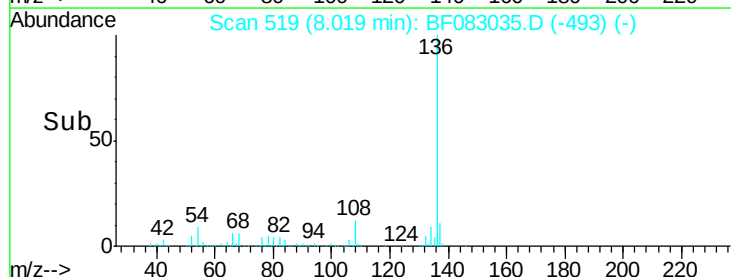
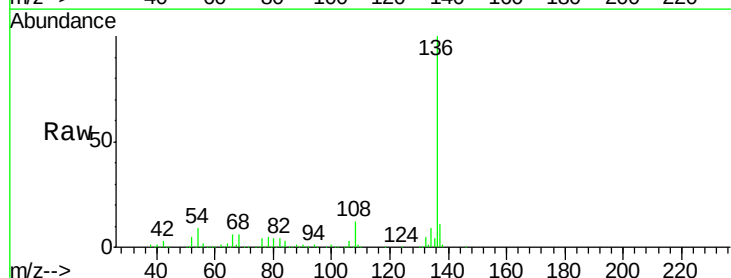
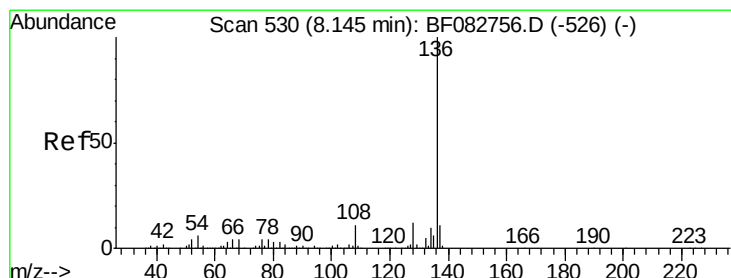
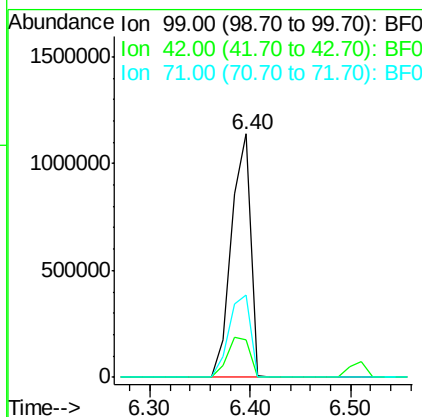
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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 519

Delta R.T. -0.00 min

Lab File: BF083035.D

Acq: 19 Nov 2015 4:16

Tgt Ion: 136 Resp: 424503

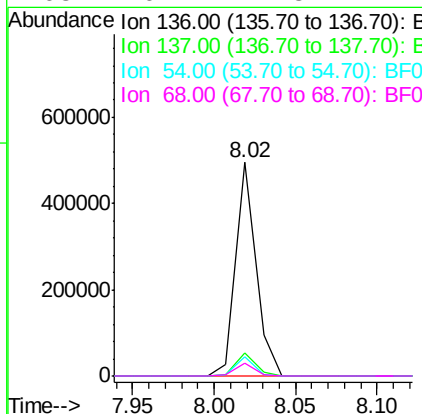
Ion Ratio Lower Upper

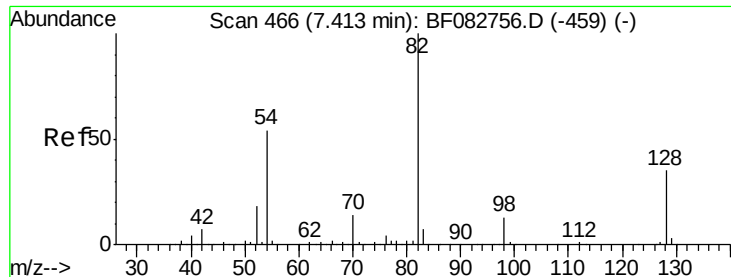
136 100

137 10.9 9.1 13.7

54 8.9 9.1 13.7#

68 6.2 4.8 7.2





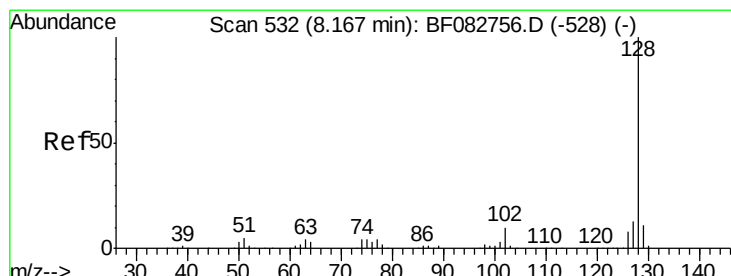
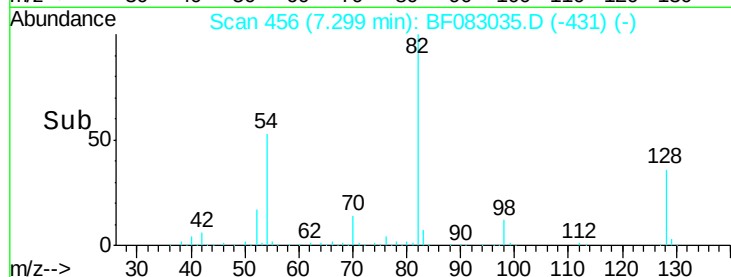
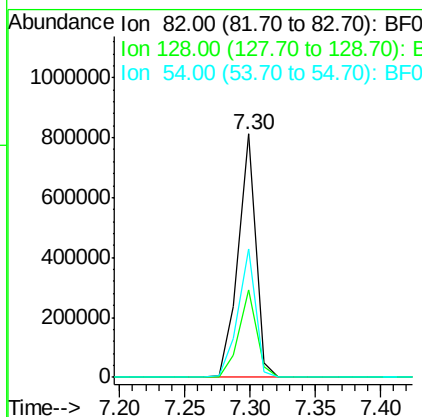
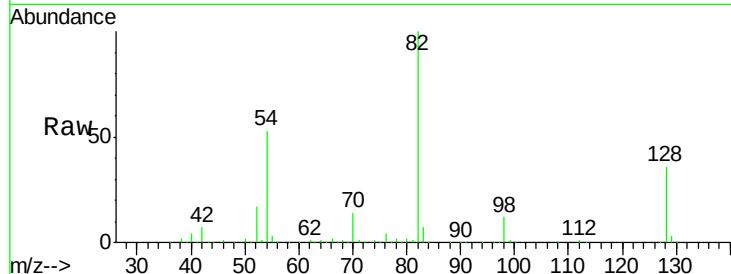
#23
 Nitrobenzene-d5
 Concen: 78.24 ng
 RT: 7.30 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	36.1	26.8	40.2
54	52.5	45.7	68.5

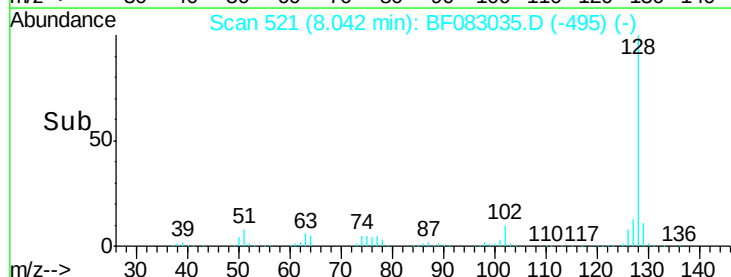
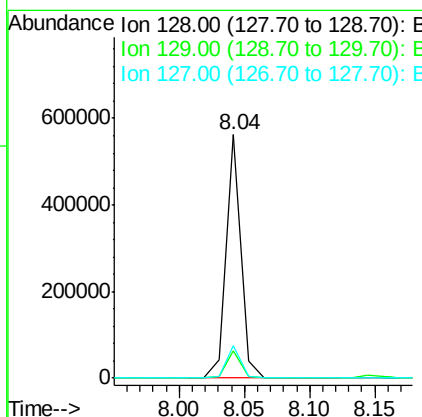
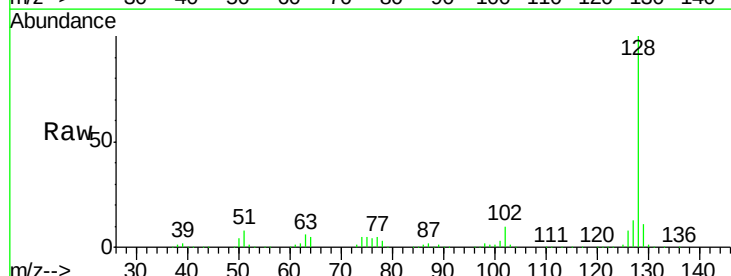
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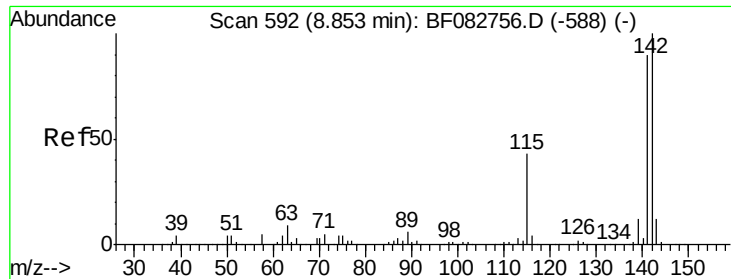
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#31
 Naphthalene
 Concen: 18.93 ng
 RT: 8.04 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.4	9.5	14.3
127	13.2	11.4	17.0





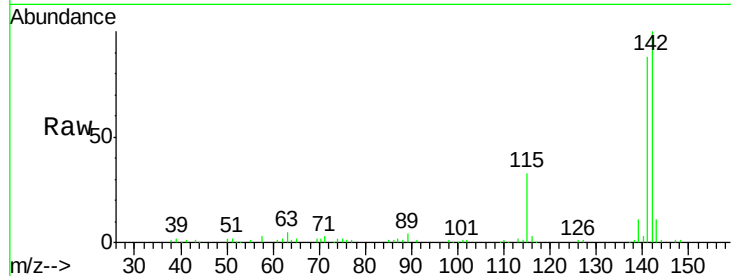
#37
2-Methylnaphthalene
Concen: 7.62 ng m
RT: 8.74 min Scan# 582
Delta R.T. -0.00 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

Instrument :
BNA_F
ClientSampleId :
SB-8

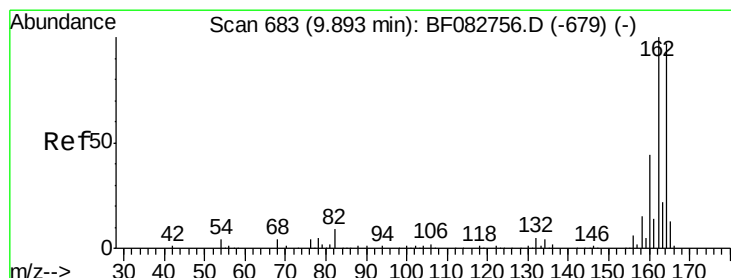
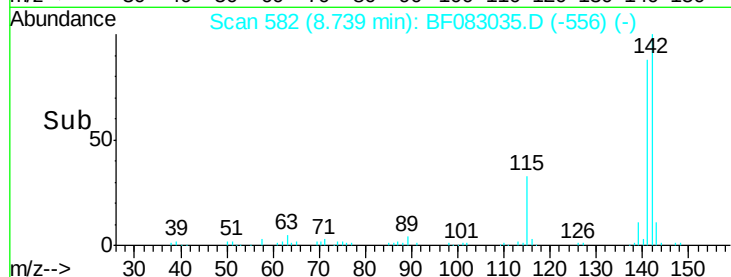
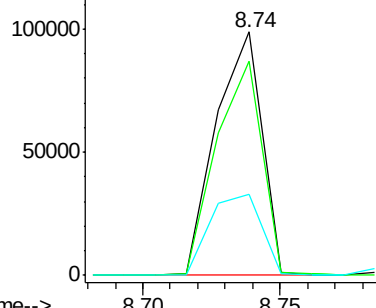
Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.1	72.3	108.5
115	33.2	38.1	57.1#

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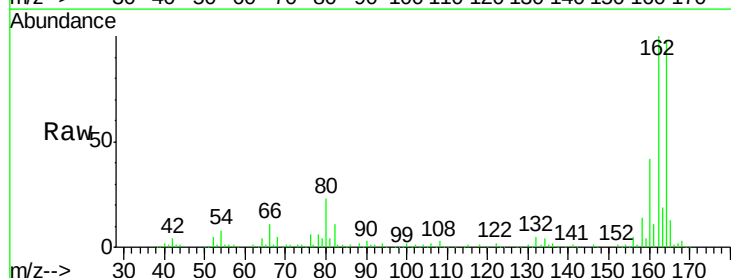


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

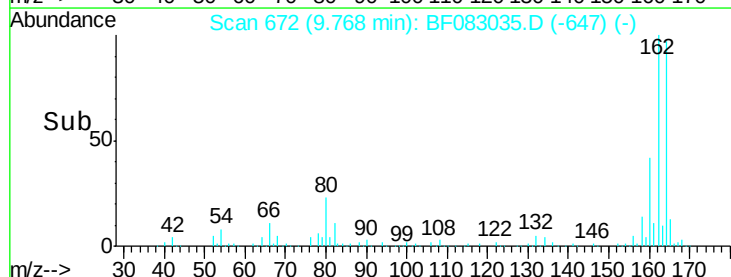
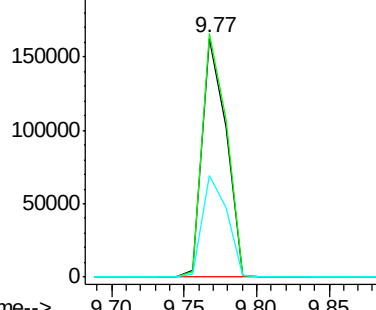


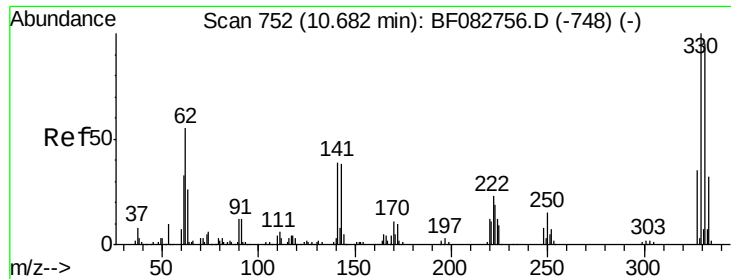
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	84.9	127.3
160	42.7	37.5	56.3



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





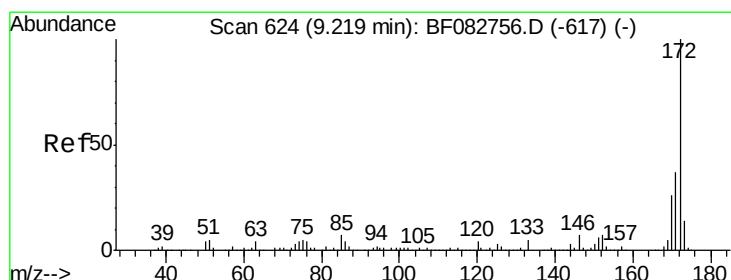
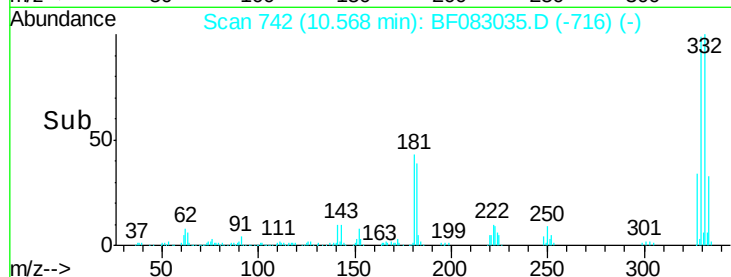
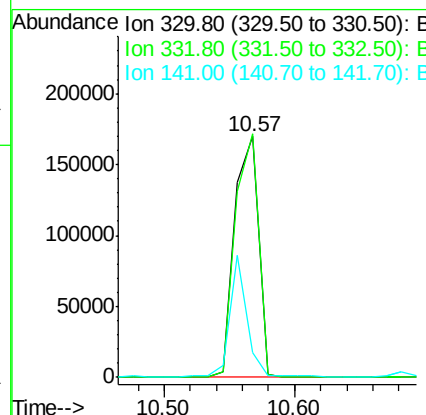
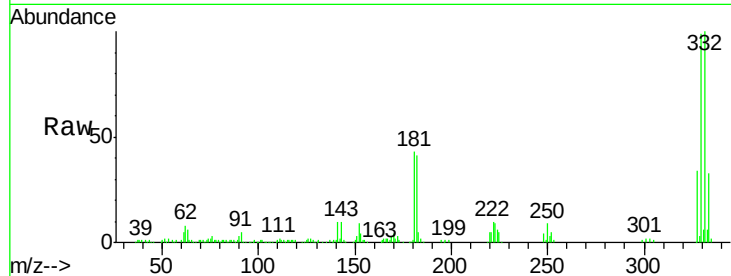
#41
 2,4,6-Tribromophenol
 Concen: 101.28 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

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Tgt Ion	Ratio	Resp	Lower	Upper
330	100	215872		
332	98.4	76.6	114.8	
141	37.6	41.2	61.8#	

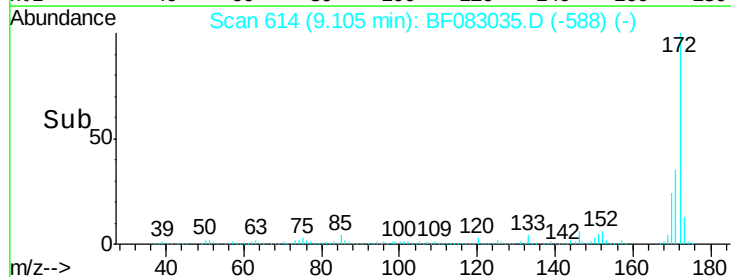
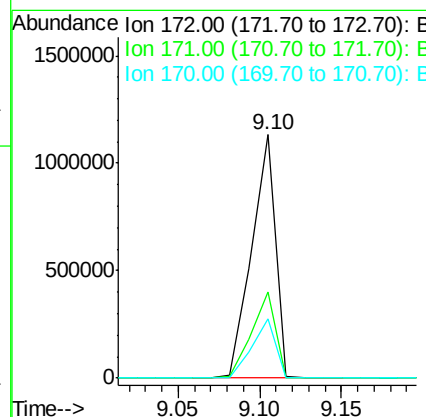
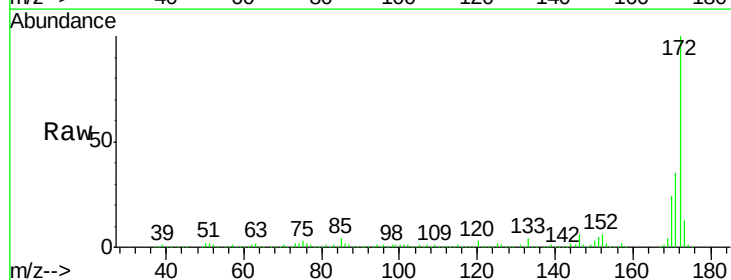
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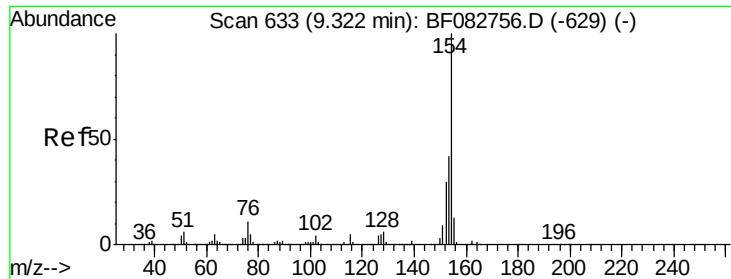
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#44
 2-Fluorobiphenyl
 Concen: 88.06 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1142179		
171	35.3	30.8	46.2	
170	24.3	21.2	31.8	





#45

1,1'-Biphenyl

Concen: 2.68 ng

RT: 9.20 min Scan# 622

Delta R.T. -0.01 min

Lab File: BF083035.D

Acq: 19 Nov 2015 4:16

Instrument :

BNA_F

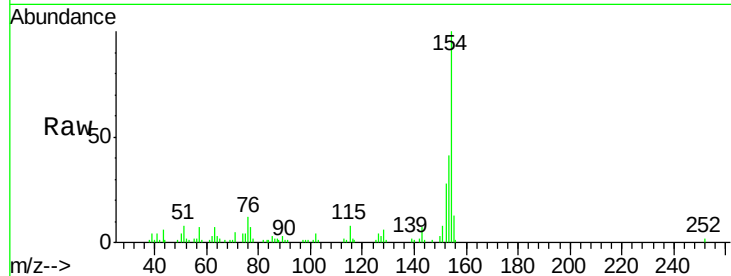
ClientSampleId :

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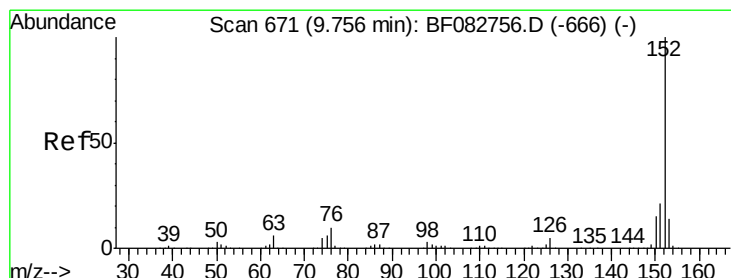
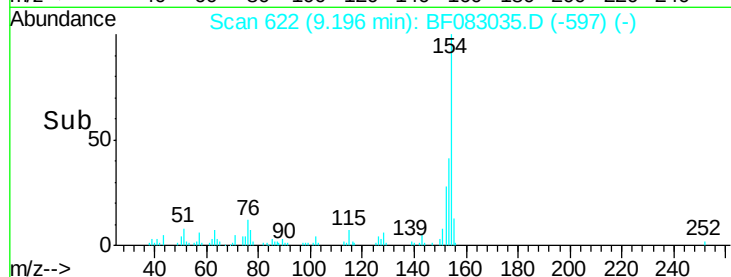
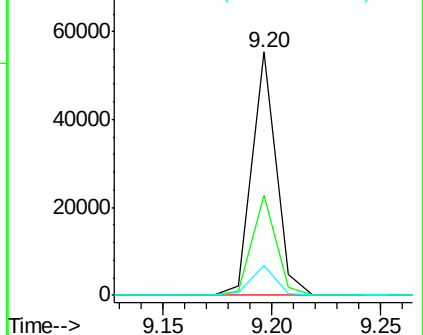
Tgt Ion:	154	Resp:	42758
Ion Ratio	Lower	Upper	
154	100		
153	41.1	22.0	62.0
76	12.1	0.0	29.0

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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: 3.10 ng

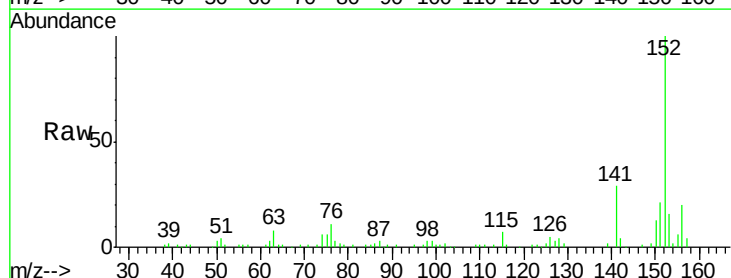
RT: 9.63 min Scan# 660

Delta R.T. -0.01 min

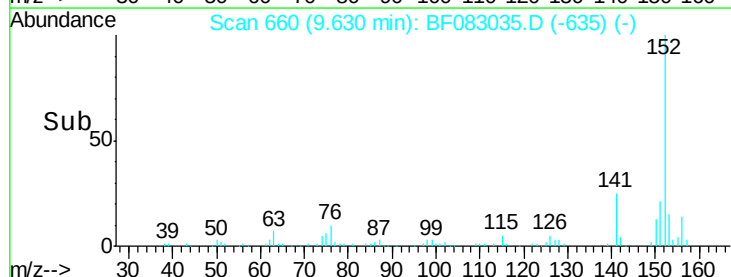
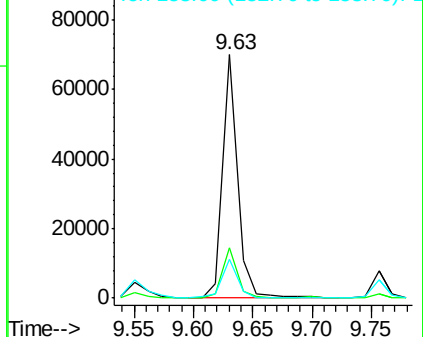
Lab File: BF083035.D

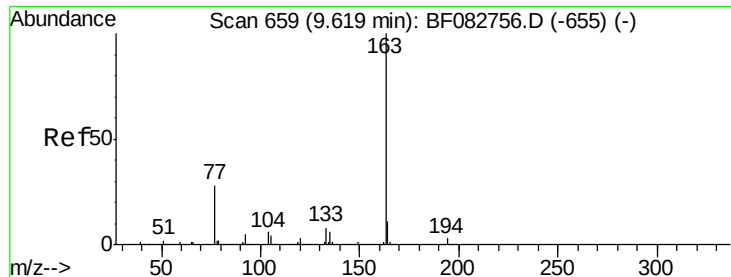
Acq: 19 Nov 2015 4:16

Tgt Ion:	152	Resp:	60474
Ion Ratio	Lower	Upper	
152	100		
151	20.7	17.3	25.9
153	15.8	11.3	16.9



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





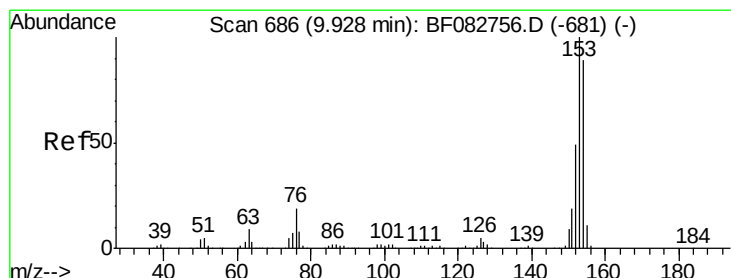
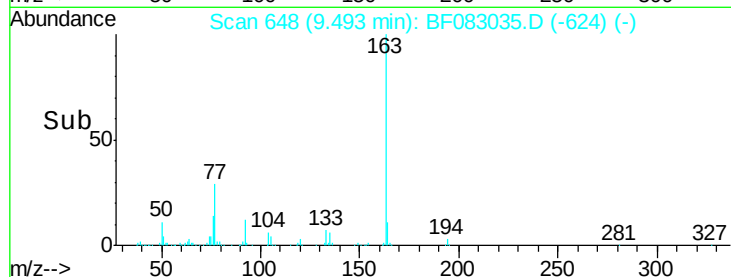
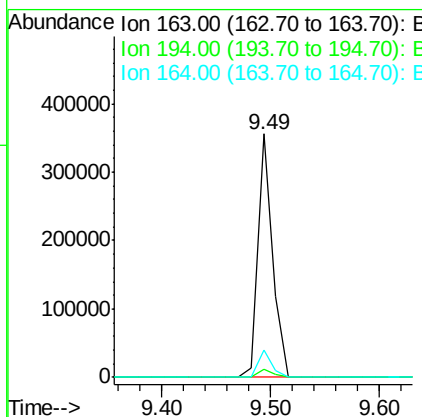
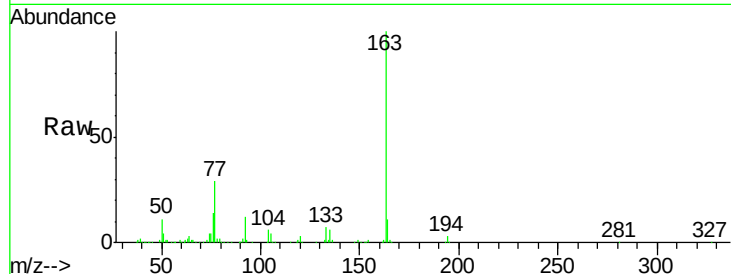
#49
Dimethylphthalate
Concen: 22.08 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.1	2.6	4.0
164	11.2	8.7	13.1

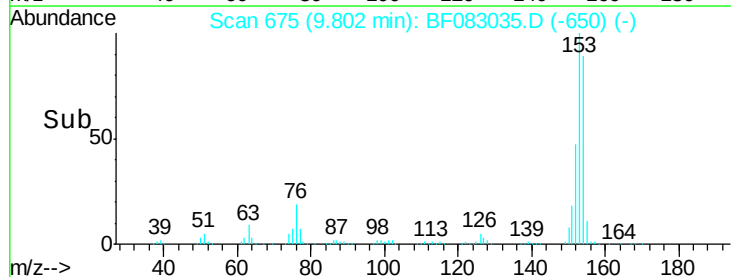
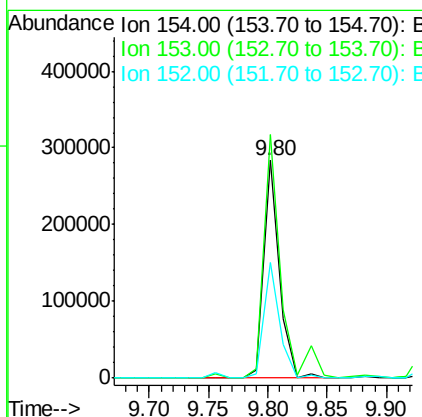
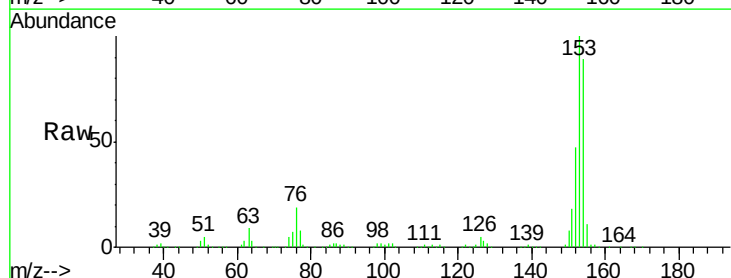
Manual Integrations
APPROVED

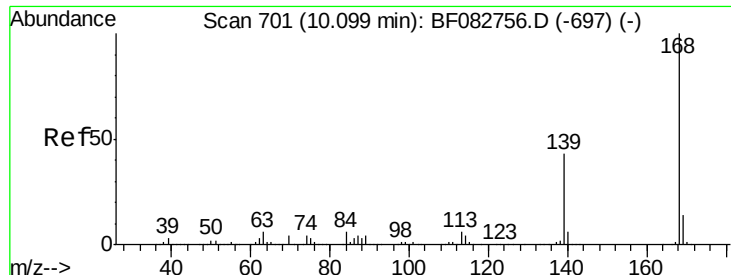
Mmdadoda
11/19/2015 6:45:09 PM



#51
Acenaphthene
Concen: 21.17 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

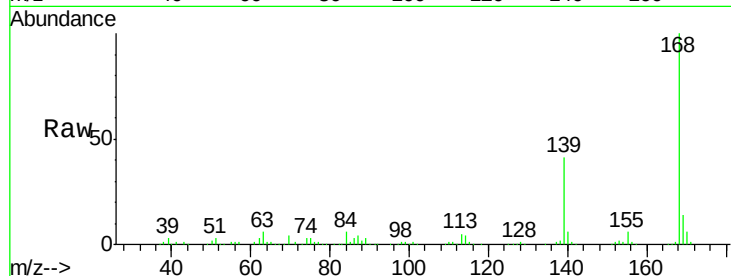
Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	111.8	90.1	135.1
152	52.9	44.3	66.5





#54
Dibenzofuran
Concen: 18.13 ng
RT: 9.97 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

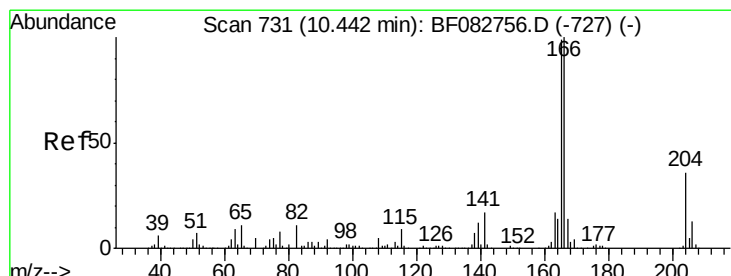
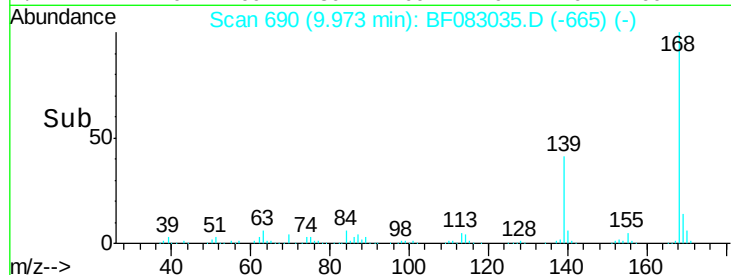
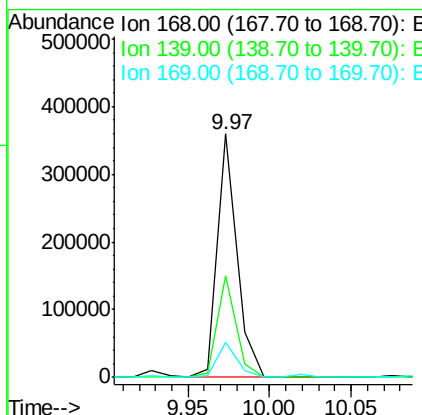
Instrument :
BNA_F
ClientSampled :
SB-8



Tgt Ion	Ratio	Lower	Upper
168	100		
139	41.5	37.8	56.6
169	14.3	11.3	16.9

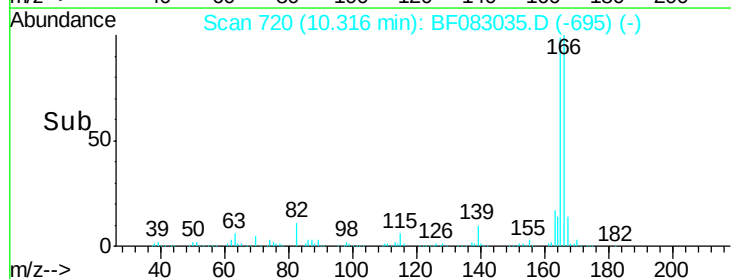
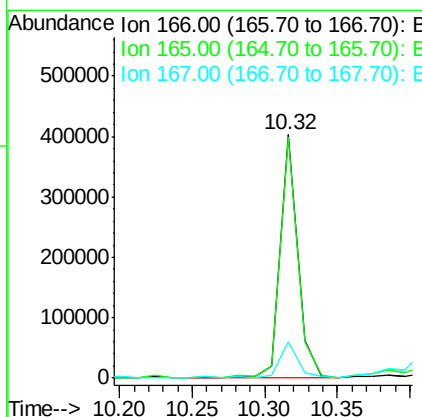
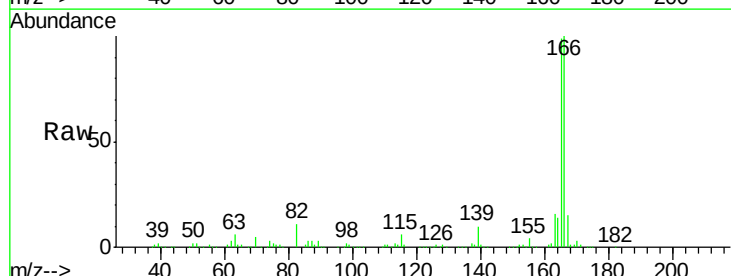
Manual Integrations
APPROVED

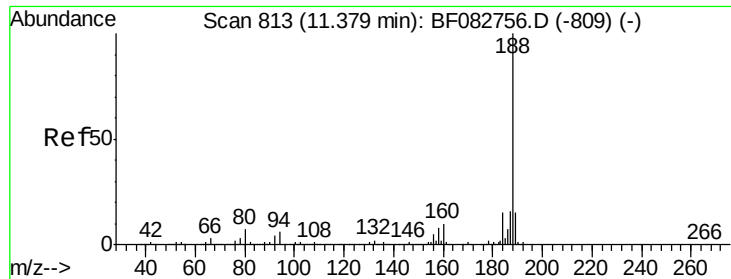
Mmdadoda
11/19/2015 6:45:09 PM



#57
Fluorene
Concen: 24.91 ng
RT: 10.32 min Scan# 720
Delta R.T. -0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.7	80.2	120.4
167	14.8	11.2	16.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.25 min Scan# 802

Delta R.T. -0.00 min

Lab File: BF083035.D

Acq: 19 Nov 2015 4:16

Instrument :

BNA_F

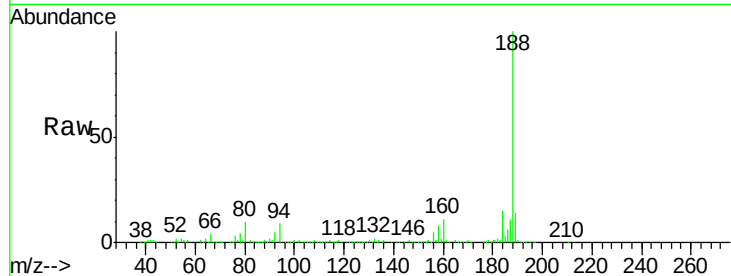
ClientSampleId :

SB-8

Tgt Ion:	188	Resp:	306763
Ion Ratio	Lower	Upper	
188	100		
94	9.1	6.1	9.1#
80	10.4	7.0	10.6

Manual Integrations
APPROVED

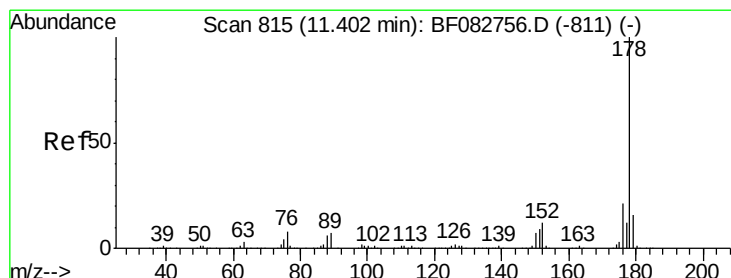
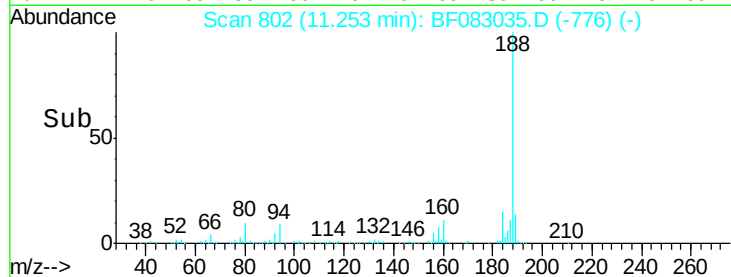
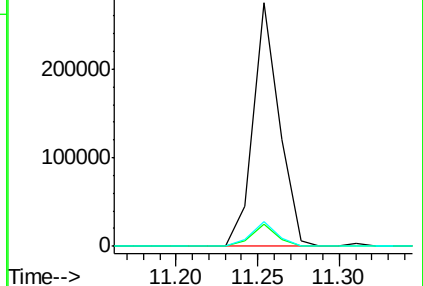
Mmdadoda
11/19/2015 6:45:09 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 154.68 ng

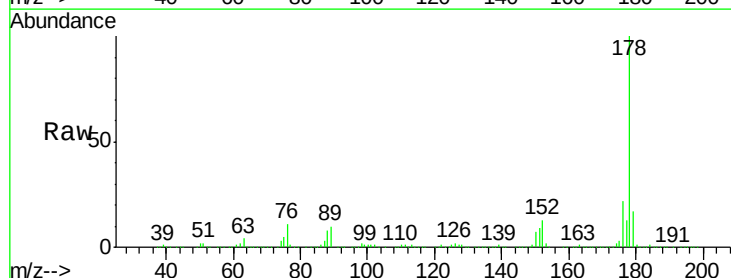
RT: 11.29 min Scan# 805

Delta R.T. 0.01 min

Lab File: BF083035.D

Acq: 19 Nov 2015 4:16

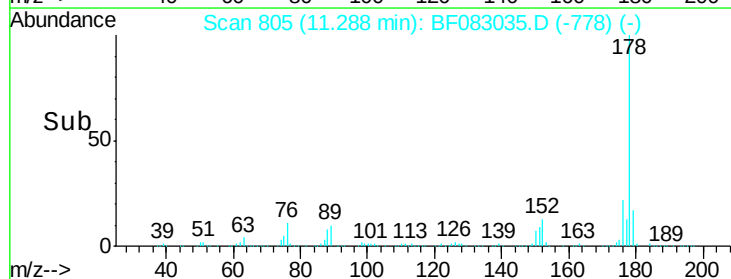
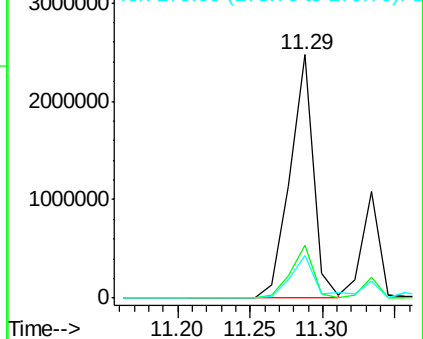
Tgt Ion:	178	Resp:	2755592
Ion Ratio	Lower	Upper	
178	100		
176	22.0	17.0	25.4
179	17.3	13.4	20.0

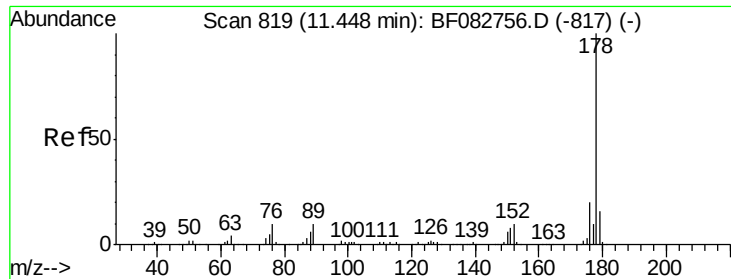


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





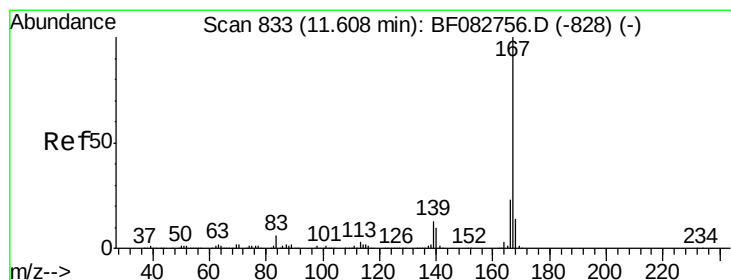
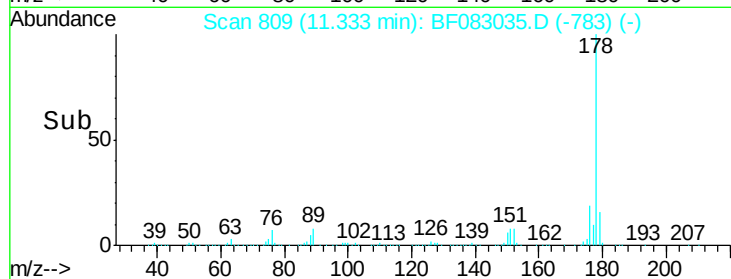
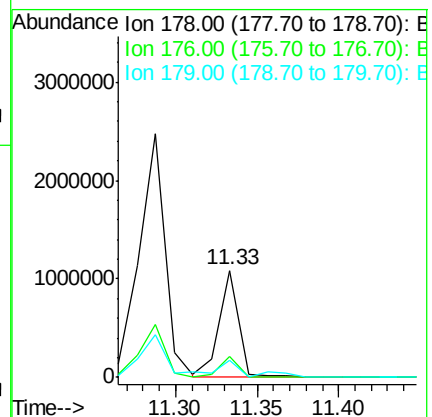
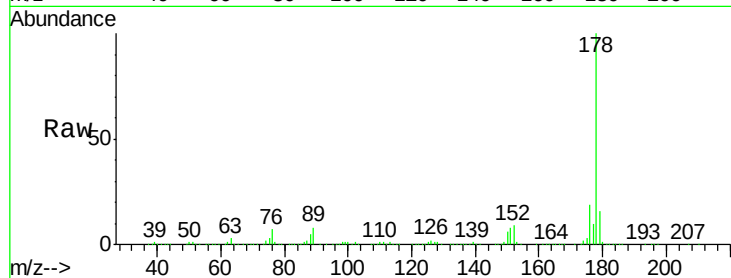
#71
 Anthracene
 Concen: 48.54 ng
 RT: 11.33 min Scan# 809
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-8

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.5	24.7
179	15.8	13.2	19.8

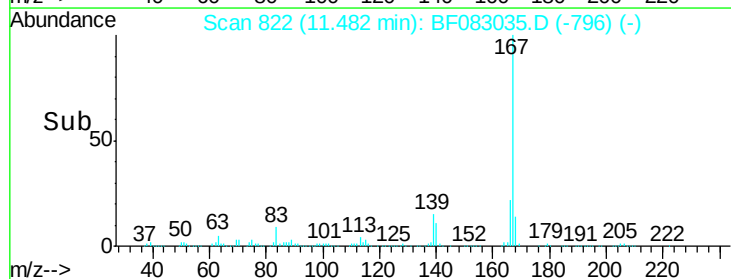
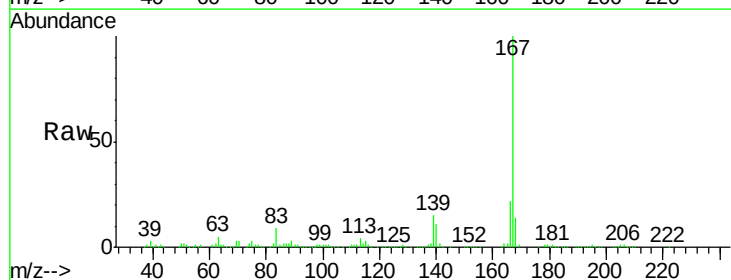
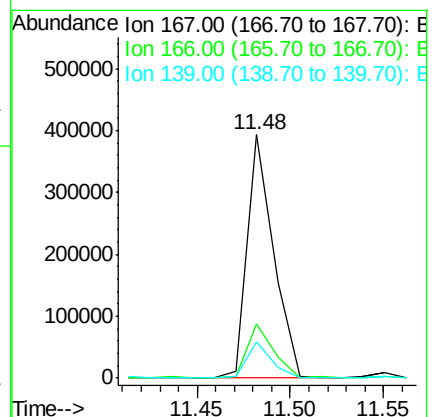
Manual Integrations
 APPROVED

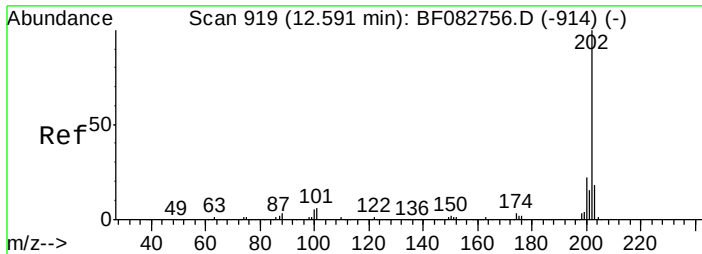
Mmdadoda
 11/19/2015 6:45:09 PM



#72
 Carbazole
 Concen: 23.58 ng
 RT: 11.48 min Scan# 822
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

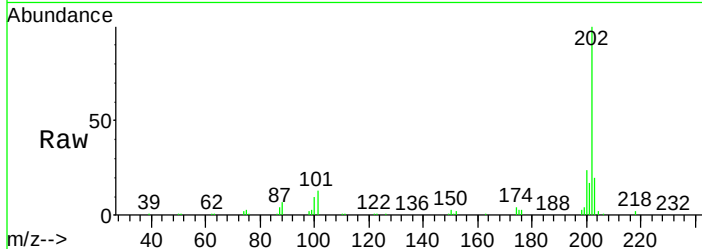
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.7	28.1
139	14.7	11.8	17.6





#74
 Fluoranthene
 Concen: 148.65 ng
 RT: 12.48 min Scan# 909
 Delta R.T. 0.01 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

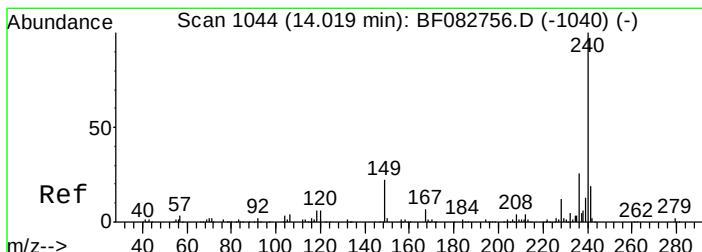
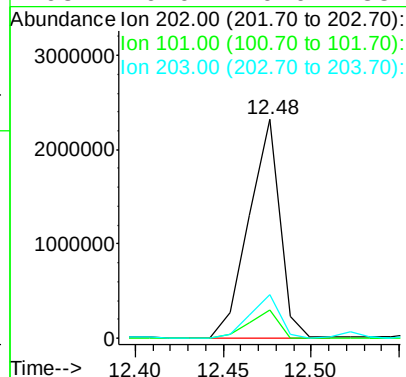
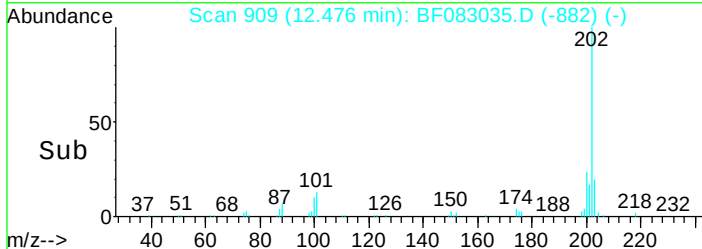
Instrument :
 BNA_F
 ClientSampleId :
 SB-8



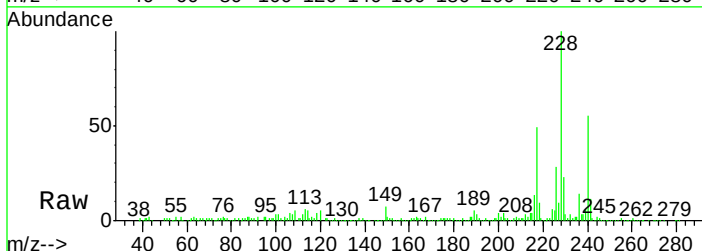
Tgt Ion:202 Resp: 2841783
 Ion Ratio Lower Upper
 202 100
 101 13.1 0.0 30.5
 203 20.0 0.0 38.5

Manual Integrations
 APPROVED

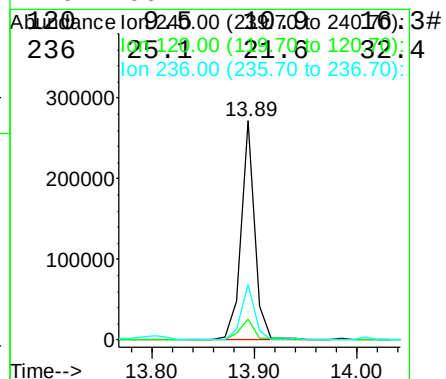
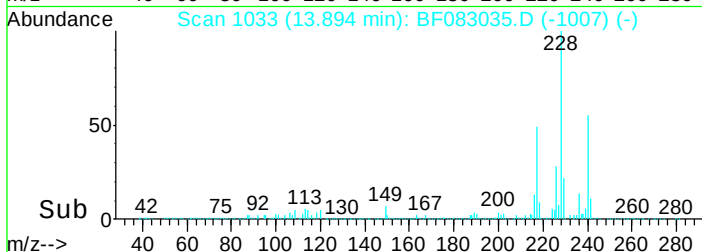
Mmdadoda
 11/19/2015 6:45:09 PM

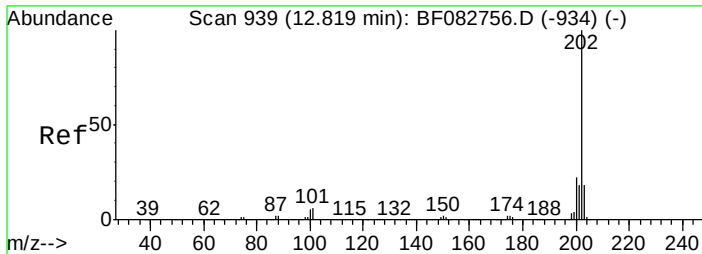


#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.89 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16



Tgt Ion:240 Resp: 254053
 Ion Ratio Lower Upper
 240 100





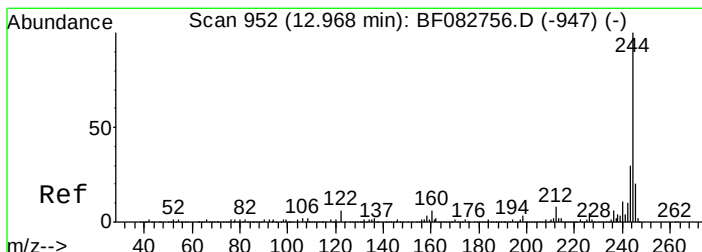
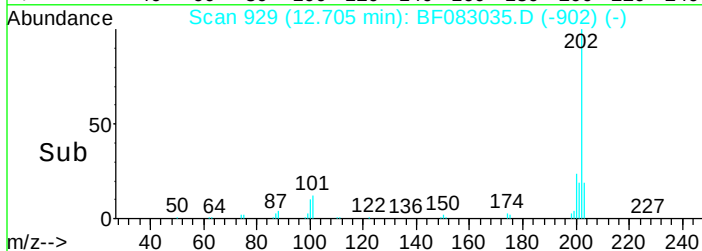
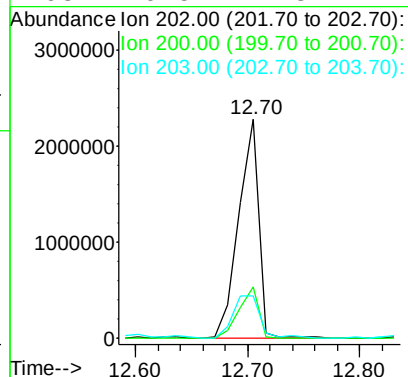
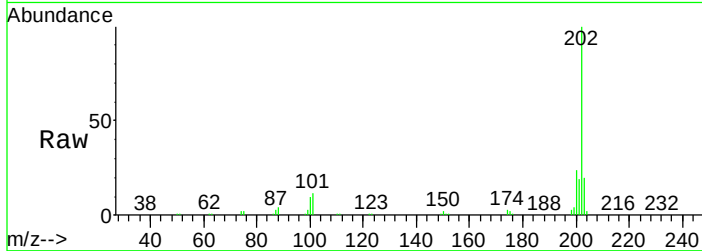
#77
 Pyrene
 Concen: 161.96 ng
 RT: 12.70 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-8

Tgt Ion:202 Resp: 2825708
 Ion Ratio Lower Upper
 202 100
 200 23.6 18.7 28.1
 203 19.5 14.8 22.2

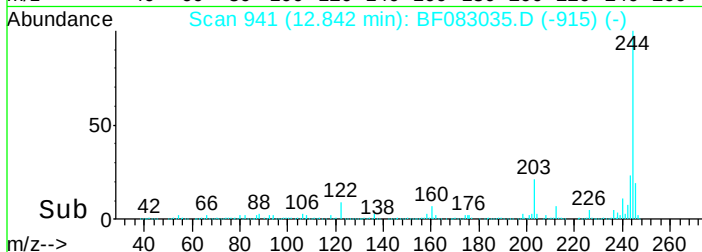
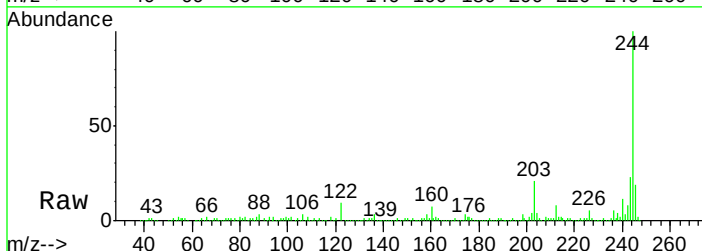
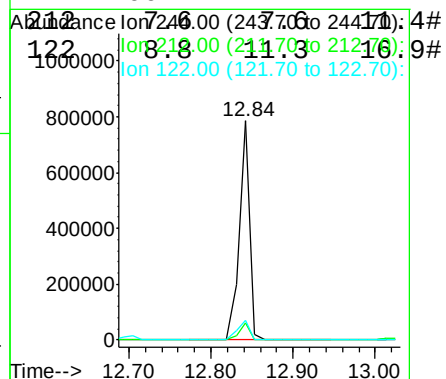
Manual Integrations
 APPROVED

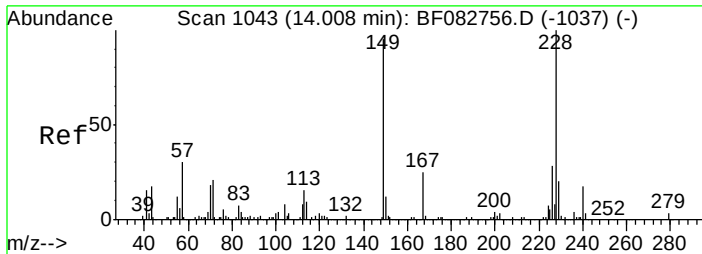
Mmdadoda
 11/19/2015 6:45:09 PM



#78
 Terphenyl-d14
 Concen: 65.00 ng
 RT: 12.84 min Scan# 941
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

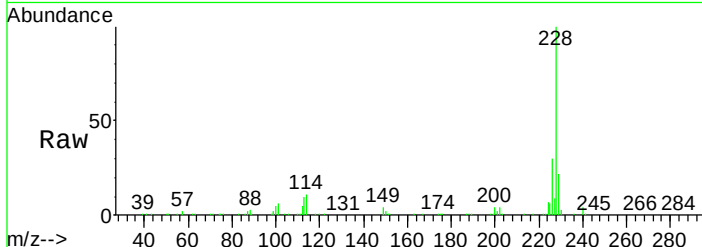
Tgt Ion:244 Resp: 696228
 Ion Ratio Lower Upper
 244 100





#80
Benzo(a)anthracene
Concen: 106.55 ng
RT: 13.88 min Scan# 1032
Delta R.T. 0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

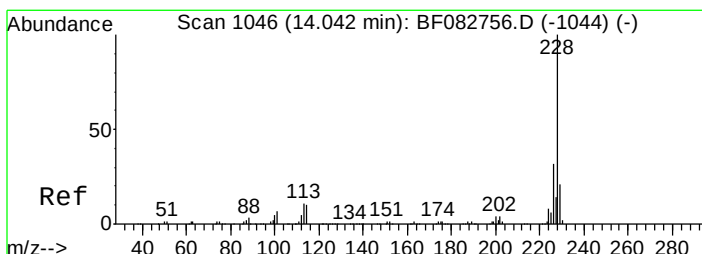
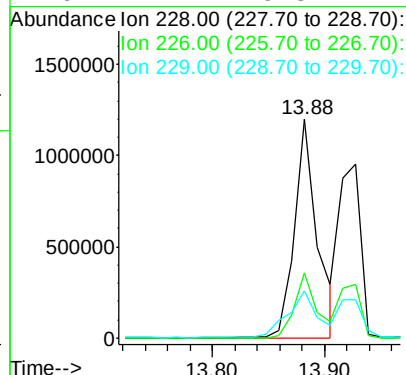
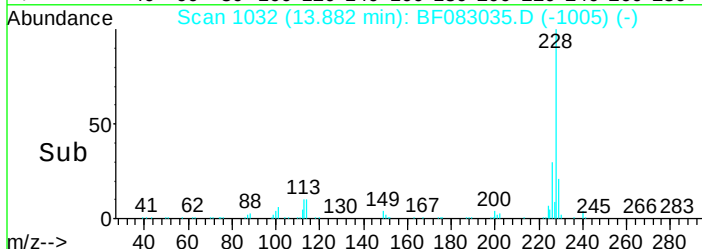
Instrument :
BNA_F
ClientSampleId :
SB-8



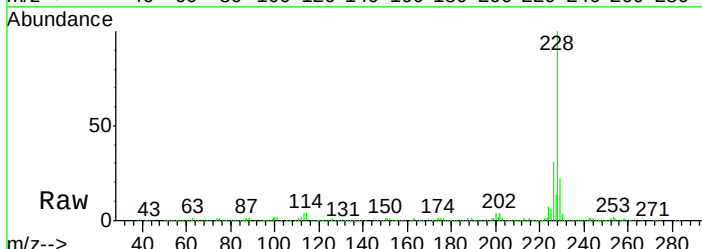
Tgt Ion:228 Resp: 1692802
Ion Ratio Lower Upper
228 100
226 30.0 23.4 35.2
229 21.7 16.3 24.5

Manual Integrations
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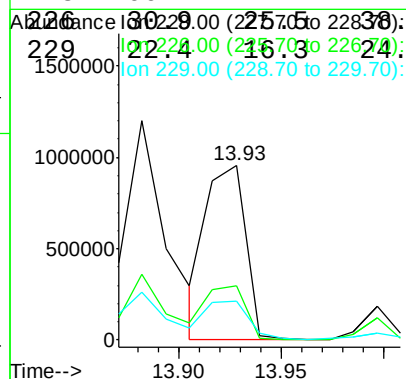
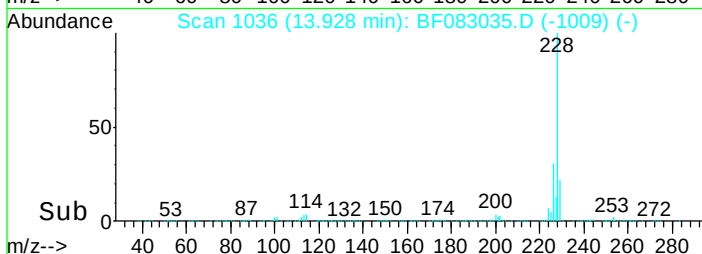
Mmdadoda
11/19/2015 6:45:09 PM

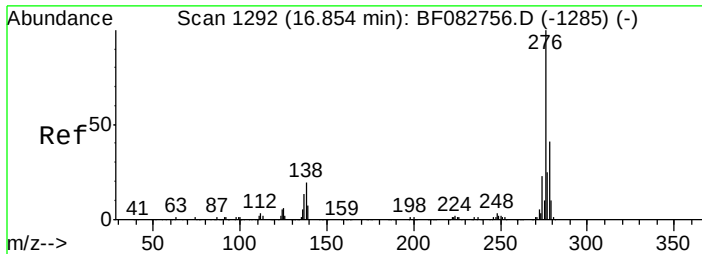


#82
Chrysene
Concen: 86.57 ng
RT: 13.93 min Scan# 1036
Delta R.T. 0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16



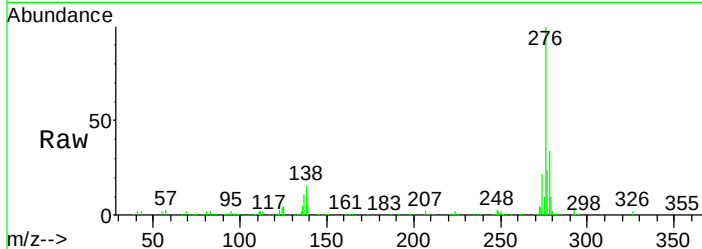
Tgt Ion:228 Resp: 1259616
Ion Ratio Lower Upper
228 100
226 30.2 25.5 35.3
229 22.4 16.3 24.5





#85
 Indeno(1,2,3-cd)pyrene
 Concen: 37.90 ng
 RT: 16.61 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

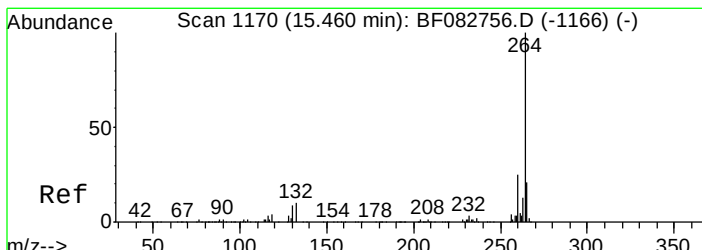
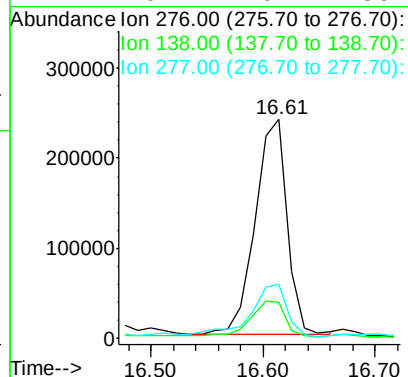
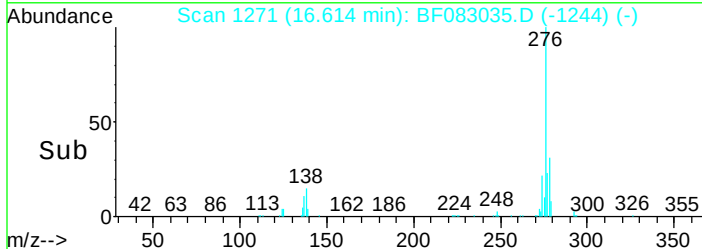
Instrument :
 BNA_F
 ClientSampleId :
 SB-8



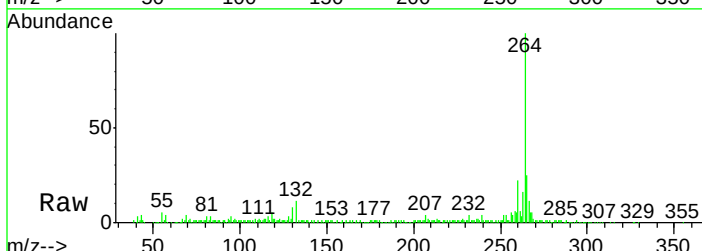
Tgt Ion:276 Resp: 474919
 Ion Ratio Lower Upper
 276 100
 138 18.4 15.3 22.9
 277 29.1 20.2 30.4

Manual Integrations
 APPROVED

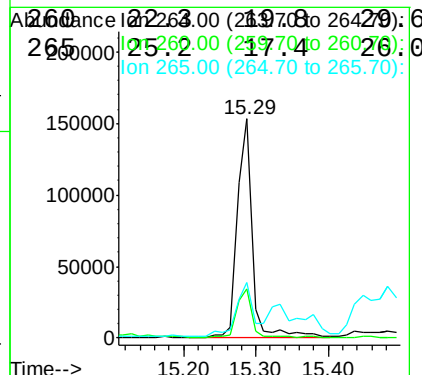
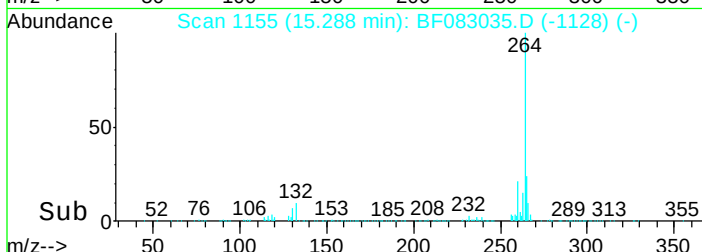
Mmdadoda
 11/19/2015 6:45:09 PM

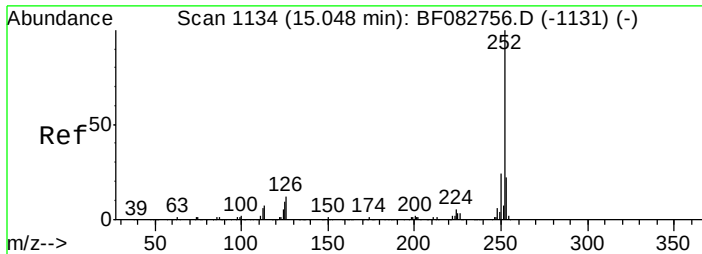


#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.29 min Scan# 1155
 Delta R.T. 0.01 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16



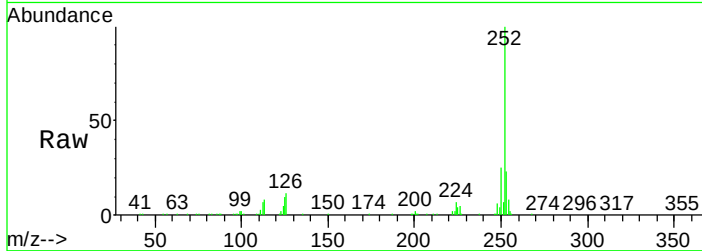
Tgt Ion:264 Resp: 215622
 Ion Ratio Lower Upper
 264 100
 260 22.3 19.9 24.6
 265 25.2 17.4 26.0





#87
Benzo(b)fluoranthene
Concen: 89.09 ng m
RT: 14.90 min Scan# 1121
Delta R.T. -0.00 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16

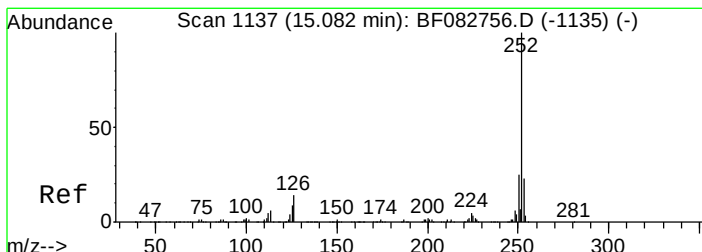
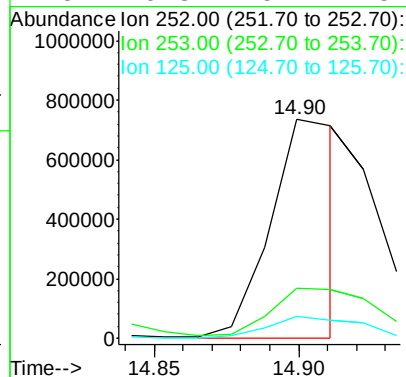
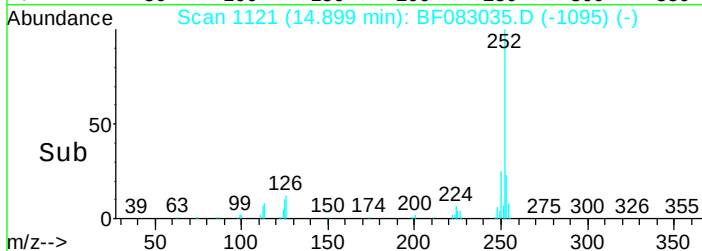
Instrument :
BNA_F
ClientSampled :
SB-8



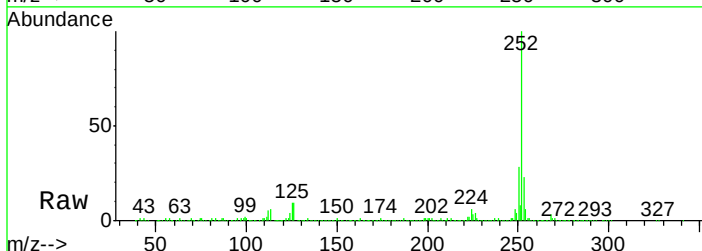
Tgt Ion:252 Resp: 1233006
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 9.8 5.4 8.2#

Manual Integrations
APPROVED

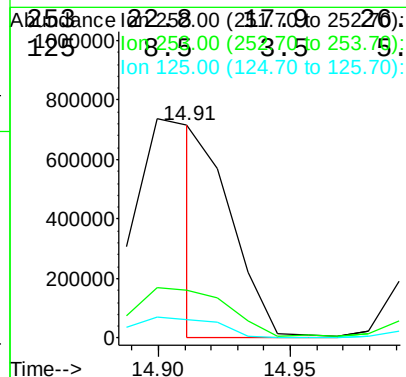
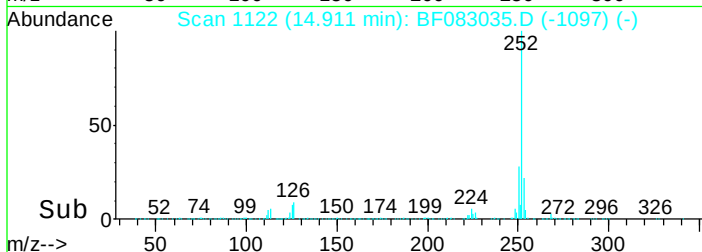
Mmdadoda
11/19/2015 6:45:09 PM

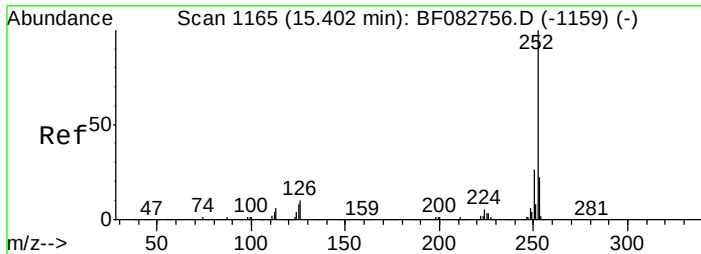


#88
Benzo(k)fluoranthene
Concen: 45.86 ng m
RT: 14.91 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BF083035.D
Acq: 19 Nov 2015 4:16



Tgt Ion:252 Resp: 563072
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 8.5 3.5 9.3#





#89

Benzo(a)pyrene

Concen: 77.20 ng

RT: 15.23 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BF083035.D

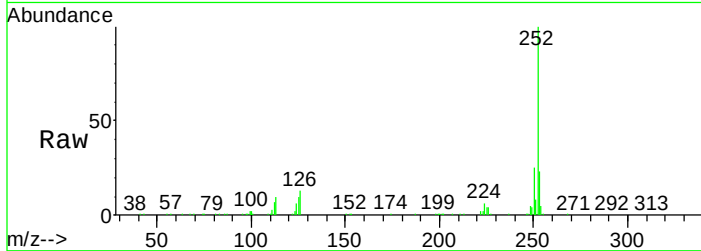
Acq: 19 Nov 2015 4:16

Instrument :

BNA_F

ClientSampleId :

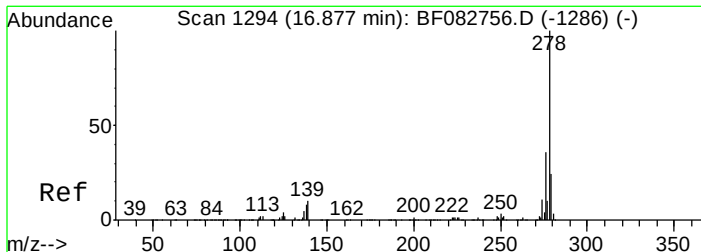
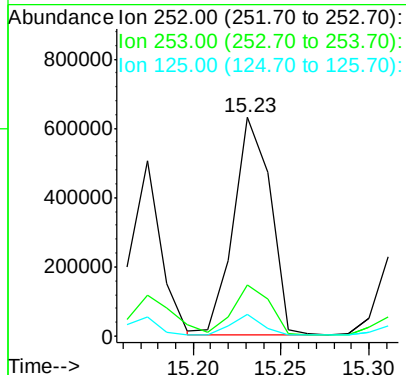
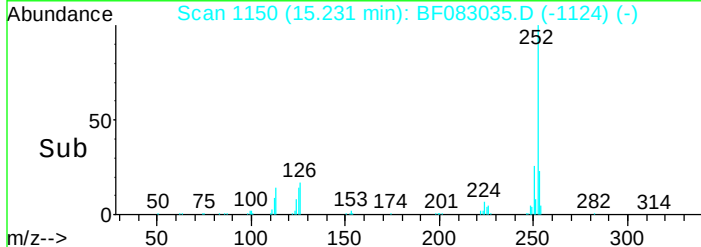
SB-8



Tgt Ion	252	Resp	925746
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.3	25.9
125	10.0	7.1	10.7

Manual Integrations
APPROVED

Mmdadoda
11/19/2015 6:45:09 PM



#90

Dibenzo(a,h)anthracene

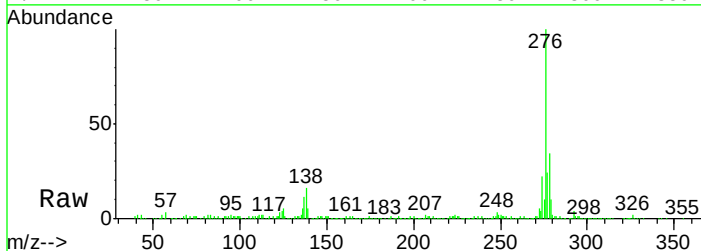
Concen: 12.62 ng m

RT: 16.61 min Scan# 1271

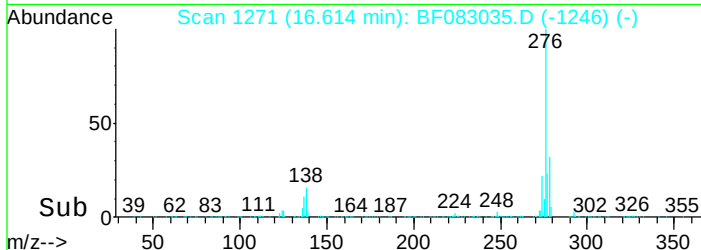
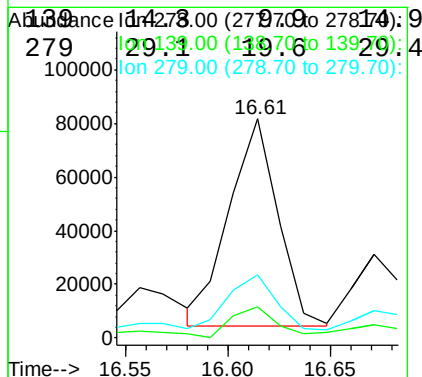
Delta R.T. -0.01 min

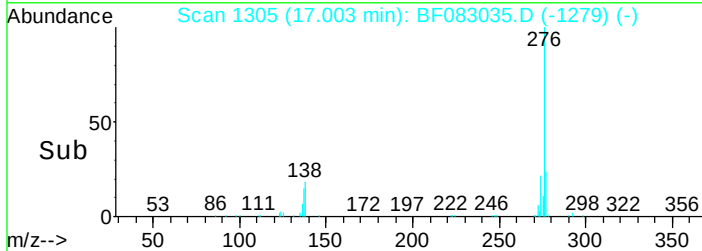
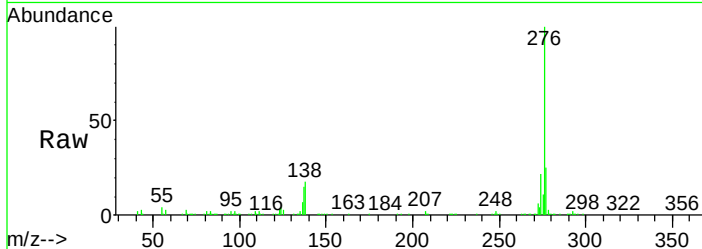
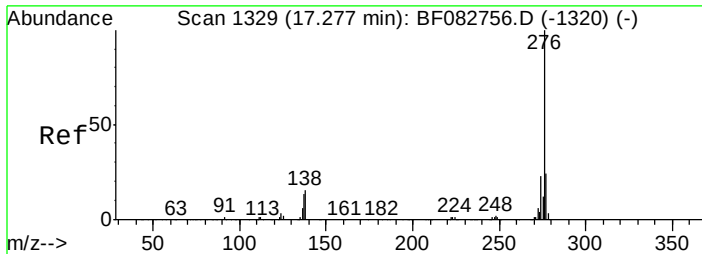
Lab File: BF083035.D

Acq: 19 Nov 2015 4:16



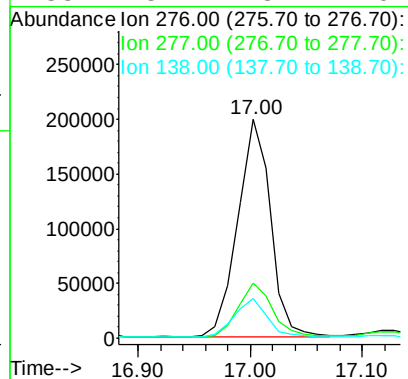
Tgt Ion	278	Resp	128175
Ion Ratio	Lower	Upper	
278	100		





#91
 Benzo(g,h,i)perylene
 Concen: 41.79 ng
 RT: 17.00 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF083035.D
 Acq: 19 Nov 2015 4:16

Tgt Ion:	276	Resp:	406454
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.2	28.8
138	18.1	13.1	19.7



Instrument :
 BNA_F
 ClientSampleId :
 SB-8

Manual Integrations
 APPROVED

Mmdadoda
 11/19/2015 6:45:09 PM