

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083538.D
 Acq On : 7 Dec 2015 2:17
 Operator : UM/IZ
 Sample : G4614-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S35-15.5

Manual Integrations
 APPROVED

Mmdadoda
 12/7/2015 6:33:27 PM

Quant Time: Dec 07 06:35:55 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.73	152	189538	20.00	ng	-0.03
21) Naphthalene-d8	7.63	136	718386	20.00	ng	-0.05
38) Acenaphthene-d10	10.42	164	337953	20.00	ng	-0.05
63) Phenanthrene-d10	12.82	188	565760	20.00	ng	-0.03
75) Chrysene-d12	17.03	240	369176	20.00	ng	-0.02
86) Perylene-d12	18.65	264	358698	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.02	112	1677582	134.28	ng	-0.01
7) Phenol-d6	5.30	99	2231972	129.67	ng	-0.02
23) Nitrobenzene-d5	6.57	82	1505344	97.95	ng	-0.03
41) 2,4,6-Tribromophenol	11.71	330	396480	127.18	ng	-0.05
44) 2-Fluorobiphenyl	9.38	172	1832091	73.53	ng	-0.05
78) Terphenyl-d14	15.46	244	1228295	74.04	ng	-0.02
Target Compounds						Qvalue
20) 3+4-Methylphenols	6.41	107	92686	6.22	ng	97
31) Naphthalene	7.66	128	136941	3.58	ng	99
49) Dimethylphthalate	10.06	163	674084	25.34	ng	99
51) Acenaphthene	10.48	154	232896	10.92	ng	99
54) Dibenzofuran	10.76	168	117253	3.97	ng	99
57) Fluorene	11.31	166	218606	8.51	ng	98
70) Phenanthrene	12.86	178	1659334	50.39	ng	99
71) Anthracene	12.93	178	456002	13.58	ng	98
72) Carbazole	13.24	167	123267	4.27	ng	96
74) Fluoranthene	14.80	202	2136795	65.47	ng	96
77) Pyrene	15.15	202	1796029	65.03	ng	# 92
80) Benzo(a)anthracene	17.01	228	777475	35.99	ng	99
82) Chrysene	17.06	228	761188	35.37	ng	97
85) Indeno(1,2,3-cd)pyrene	19.89	276	344224	18.66	ng	# 100
87) Benzo(b)fluoranthene	18.27	252	825638m	40.99	ng	
88) Benzo(k)fluoranthene	18.29	252	192461m	9.33	ng	
89) Benzo(a)pyrene	18.60	252	605567m	30.90	ng	
90) Dibenzo(a,h)anthracene	19.89	278	91235	4.84	ng	# 93
91) Benzo(a,h,i)perylene	20.25	276	311227	16.38	ng	98

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

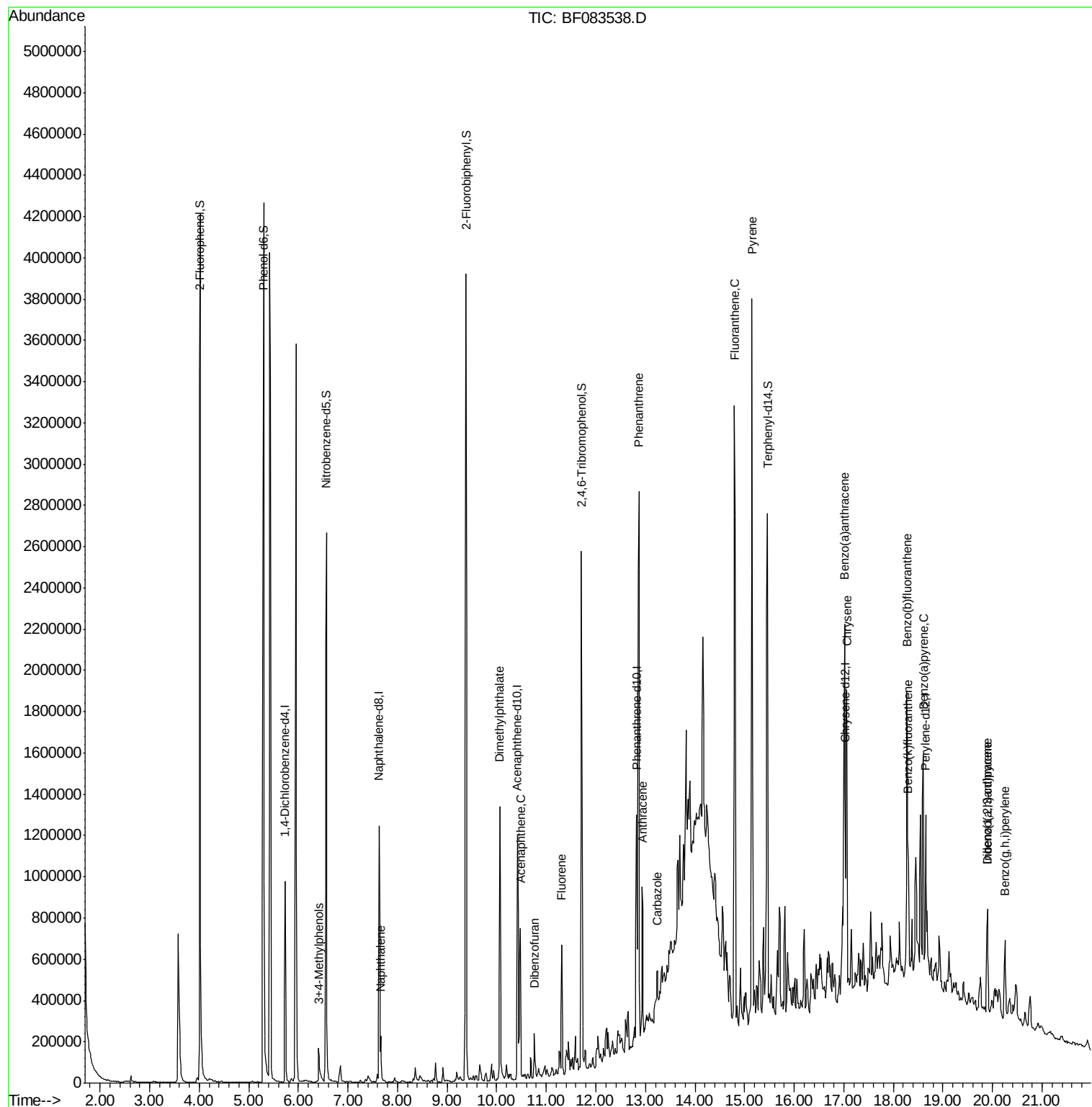
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083538.D
Acq On : 7 Dec 2015 2:17
Operator : UM/IZ
Sample : G4614-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

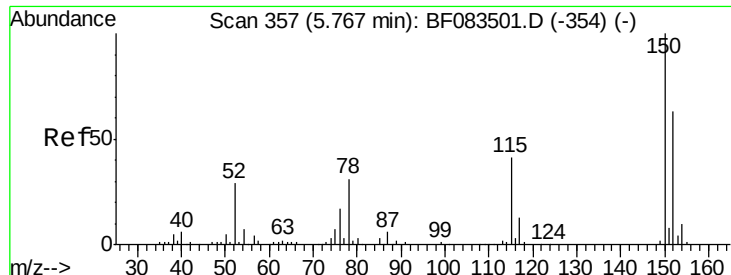
Instrument :
BNA_F
ClientSampleId :
S35-15.5

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM

Quant Time: Dec 07 06:35:55 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 05 04:12:46 2015
Response via : Initial Calibration





#1

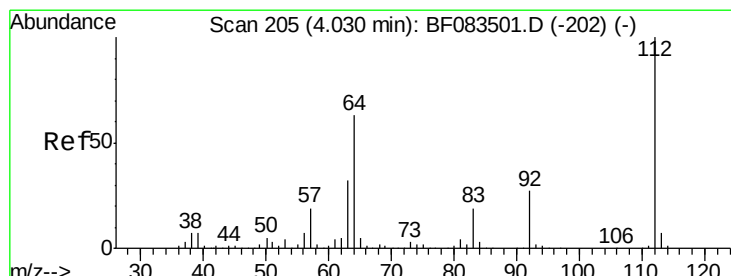
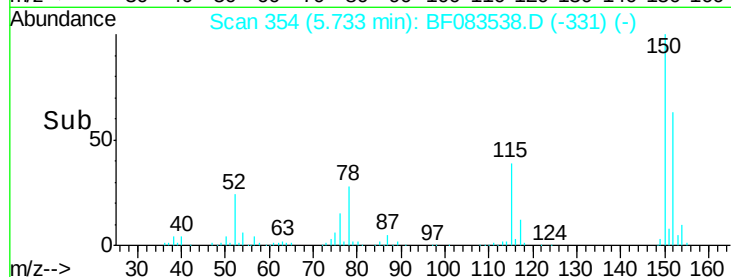
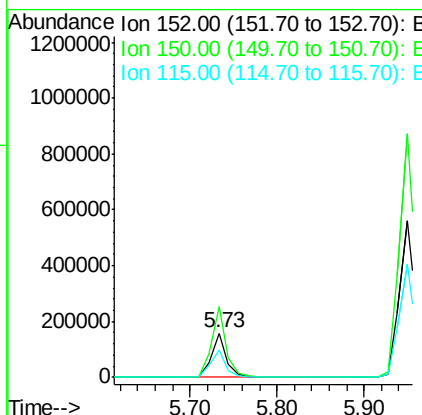
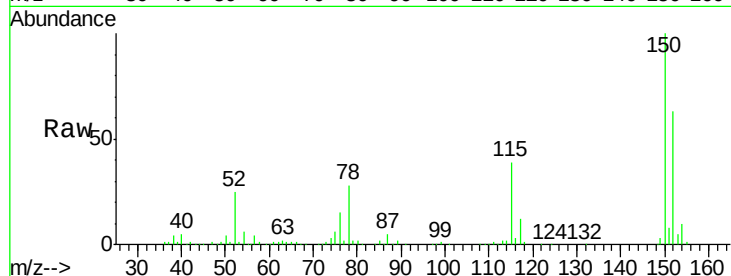
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.73 min Scan# 354
Delta R.T. -0.03 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	126.5	189.7
115	61.2	52.3	78.5

Manual Integrations
APPROVED

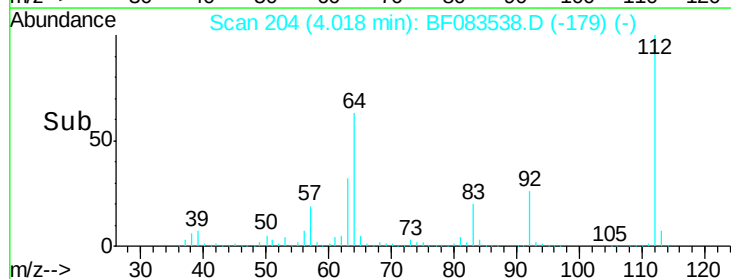
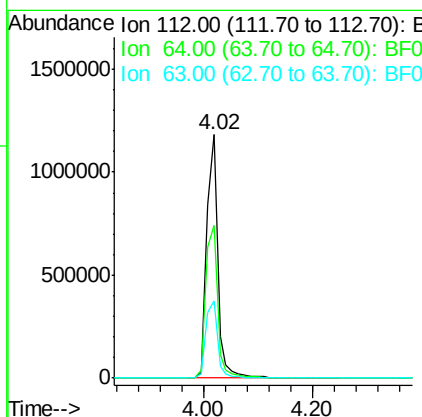
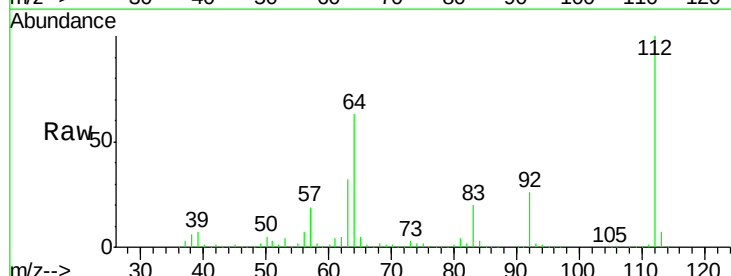
Mmdadoda
12/7/2015 6:33:27 PM

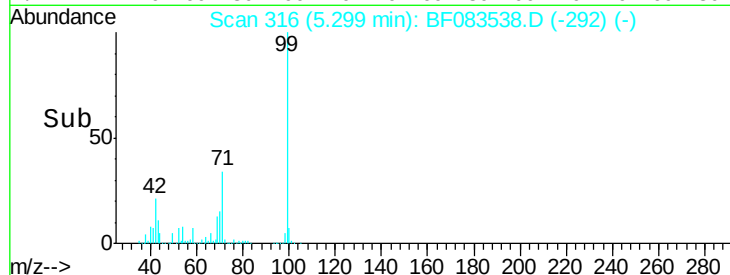
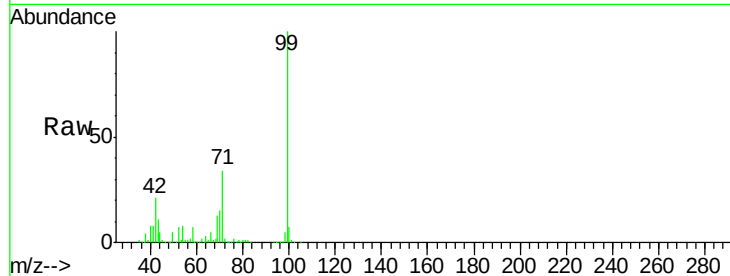
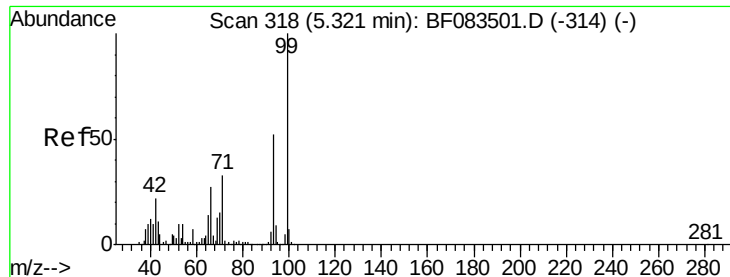


#5

2-Fluorophenol
Concen: 134.28 ng
RT: 4.02 min Scan# 204
Delta R.T. -0.01 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.6	50.5	75.7
63	31.9	25.8	38.6





#7

Phenol-d6

Concen: 129.67 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Tot Ion: 99 Resp: 2231972

Ion Ratio Lower Upper

99 100

42 21.5 17.3 25.9

71 34.0 26.6 40.0

Instrument :

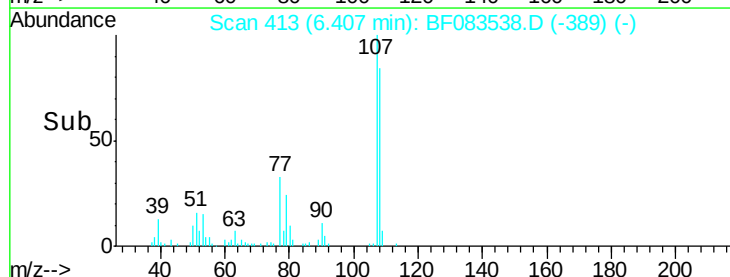
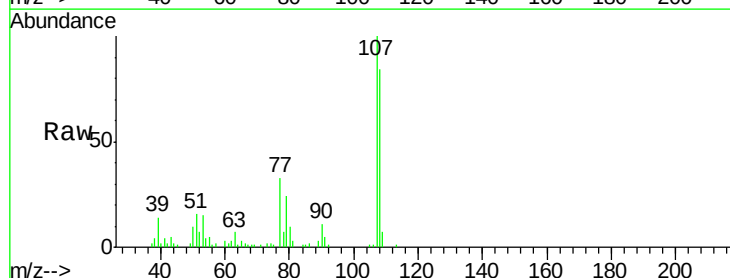
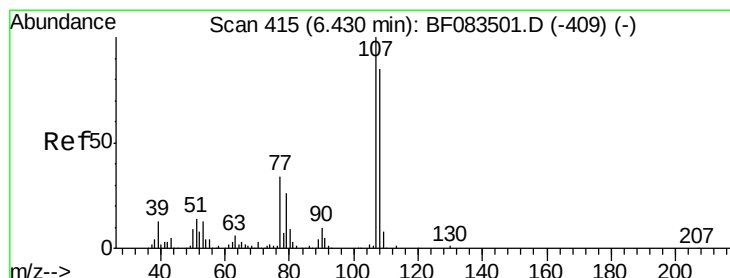
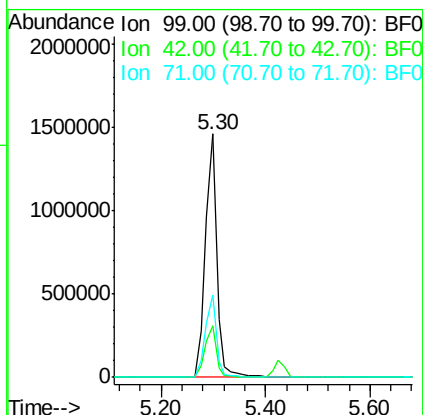
BNA_F

ClientSampleId :

S35-15.5

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM



#20

3+4-Methylphenols

Concen: 6.22 ng

RT: 6.41 min Scan# 413

Delta R.T. -0.02 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Tgt Ion: 107 Resp: 92686

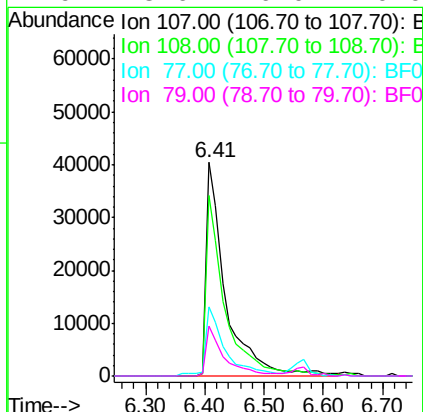
Ion Ratio Lower Upper

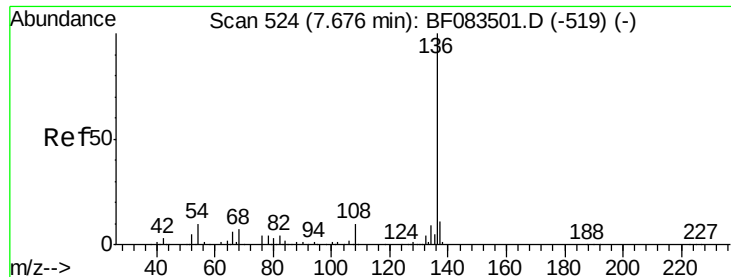
107 100

108 84.3 65.2 105.2

77 32.6 15.2 55.2

79 23.6 6.0 46.0





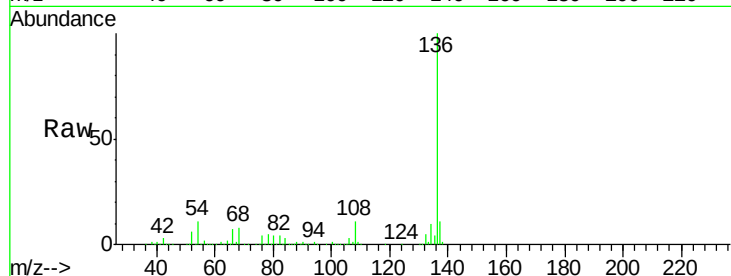
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.63 min Scan# 520
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

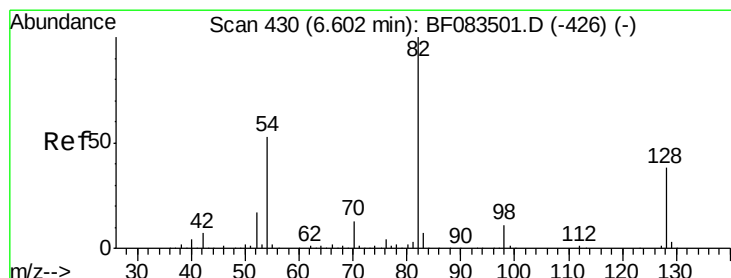
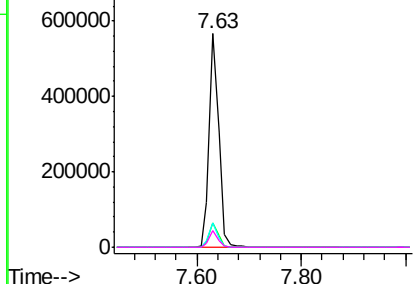
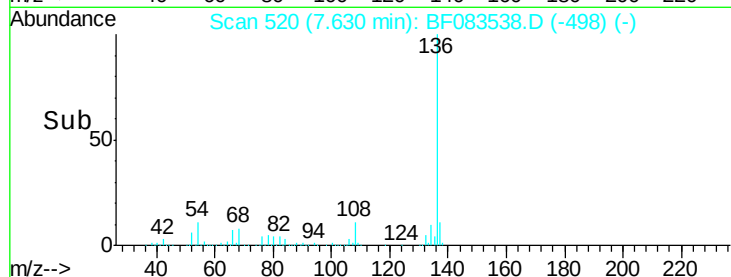
Tot Ion	Ratio	Resp	Lower	Upper
136	100	718386		
137	11.1		8.7	13.1
54	11.4		7.8	11.6
68	8.0		5.7	8.5

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM

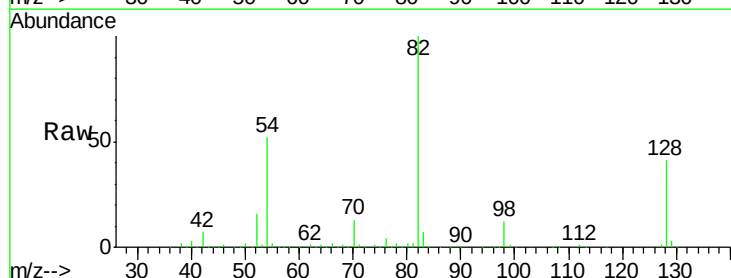


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

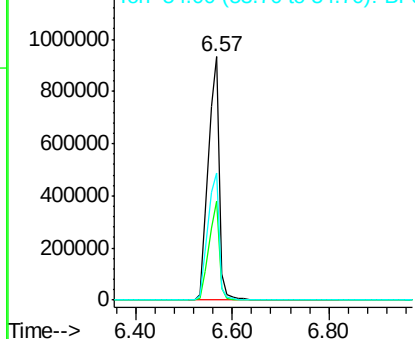
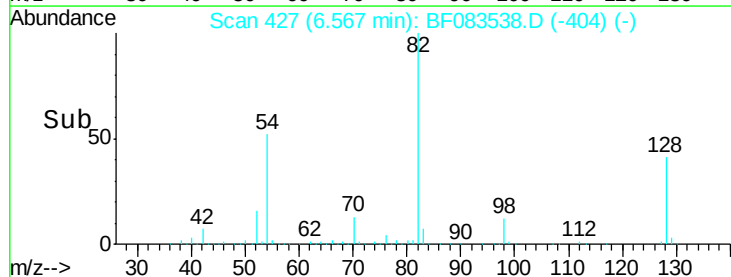


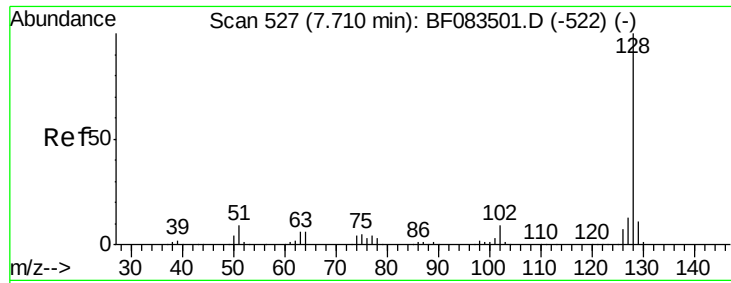
#23
Nitrobenzene-d5
Concen: 97.95 ng
RT: 6.57 min Scan# 427
Delta R.T. -0.03 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	1505344		
128	40.7		30.7	46.1
54	52.0		42.5	63.7



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





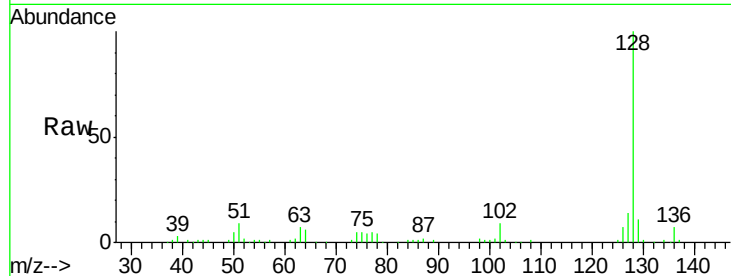
#31
Naphthalene
Concen: 3.58 ng
RT: 7.66 min Scan# 523
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

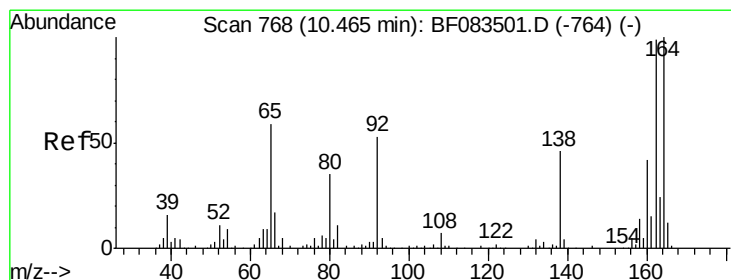
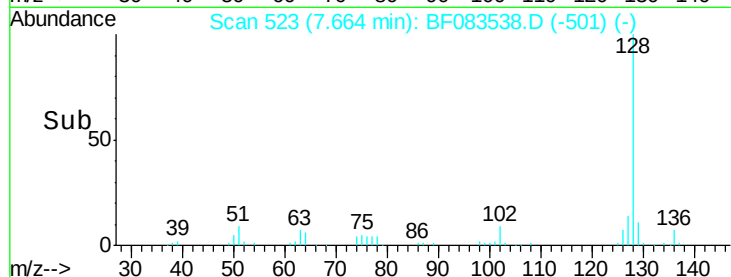
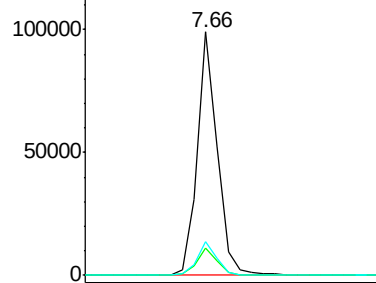
Tot Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.6	13.0
127	13.7	10.6	16.0

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM

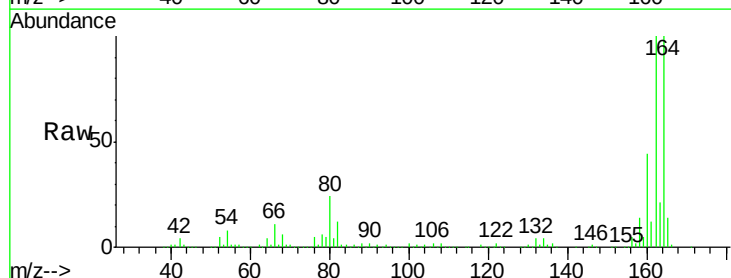


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

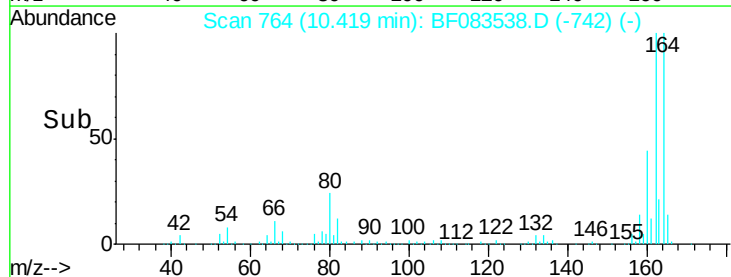
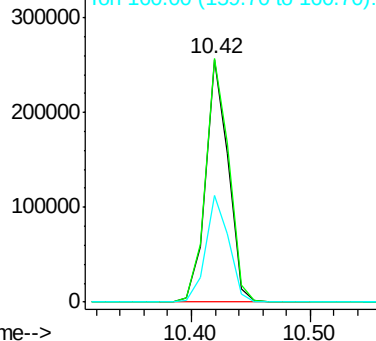


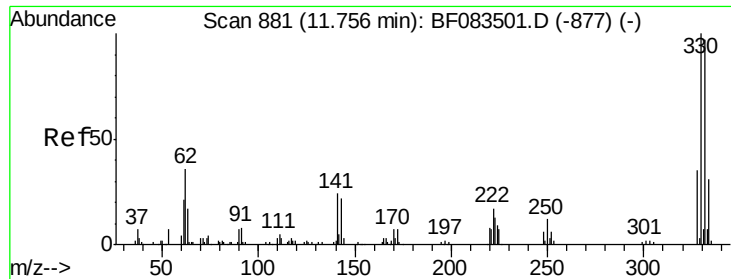
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.42 min Scan# 764
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.4	78.8	118.2
160	44.2	33.4	50.2



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





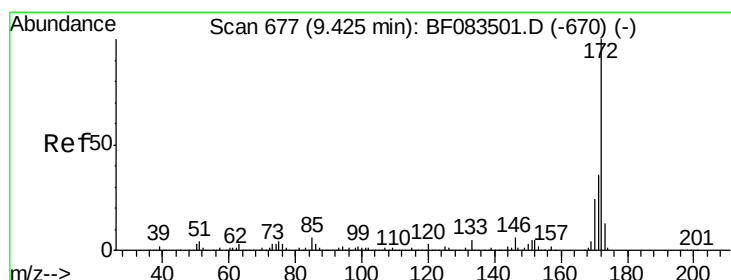
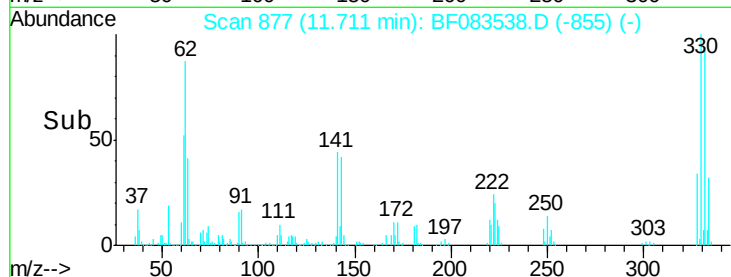
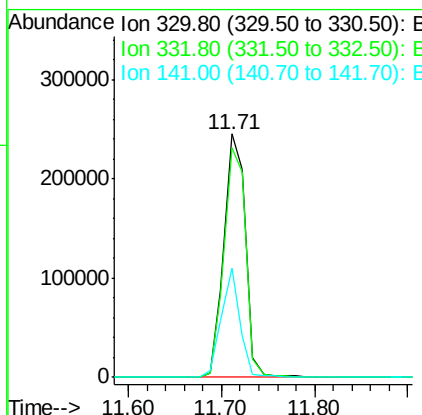
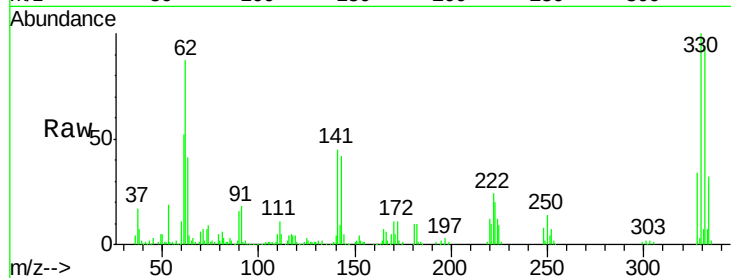
#41
 2,4,6-Tribromophenol
 Concen: 127.18 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083538.D
 Acq: 7 Dec 2015 2:17

Instrument :
 BNA_F
 ClientSampleId :
 S35-15.5

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	96.3	0.0	0.0#
141	39.4	0.0	0.0#

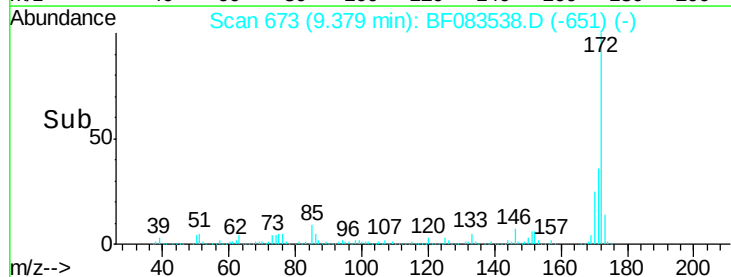
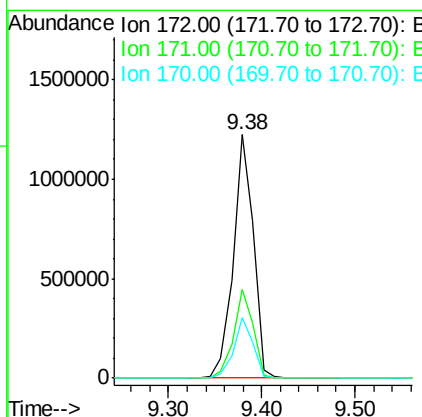
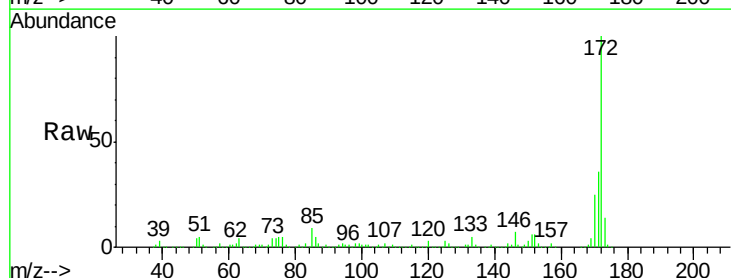
Manual Integrations
 APPROVED

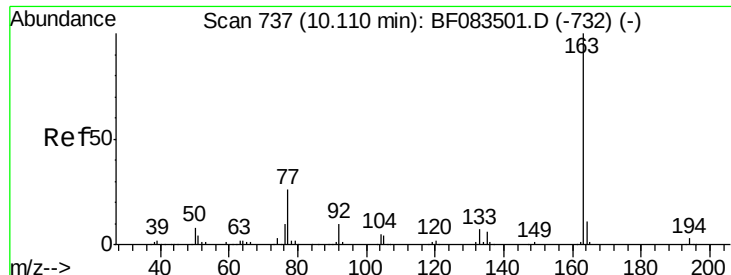
Mmdadoda
 12/7/2015 6:33:27 PM



#44
 2-Fluorobiphenyl
 Concen: 73.53 ng
 RT: 9.38 min Scan# 673
 Delta R.T. -0.05 min
 Lab File: BF083538.D
 Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	36.2	28.6	42.8
170	25.1	19.4	29.0





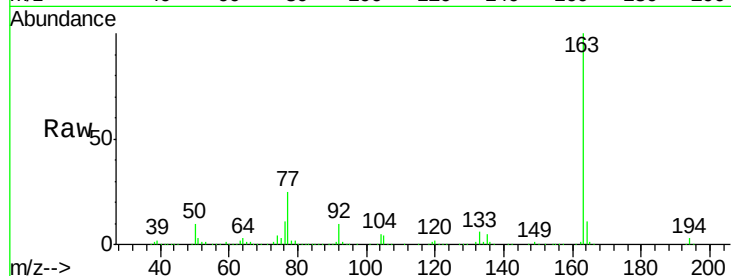
#49
Dimethylphthalate
Concen: 25.34 ng
RT: 10.06 min Scan# 733
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

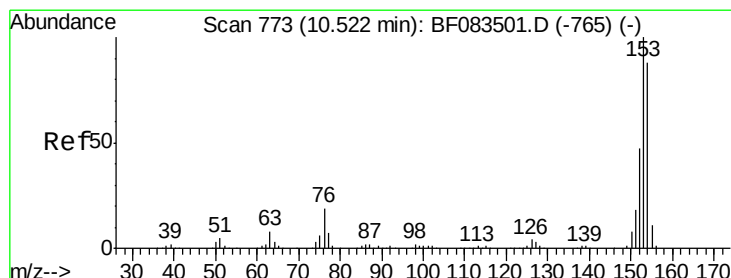
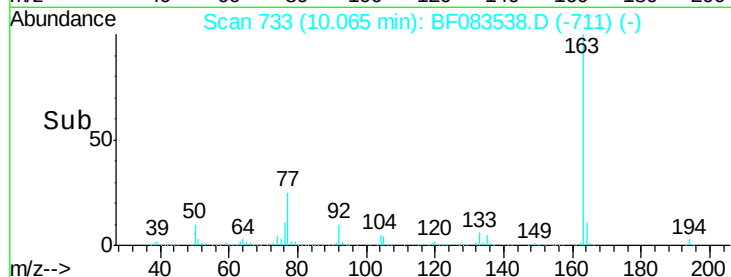
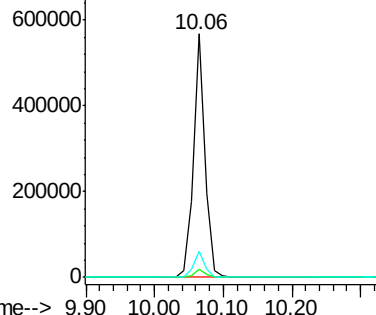
Tot Ion	Ratio	Resp	Lower	Upper
163	100	674084		
194	3.3		2.8	4.2
164	10.6		8.6	13.0

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM

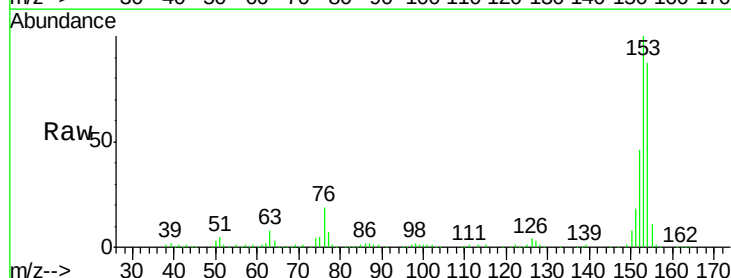


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

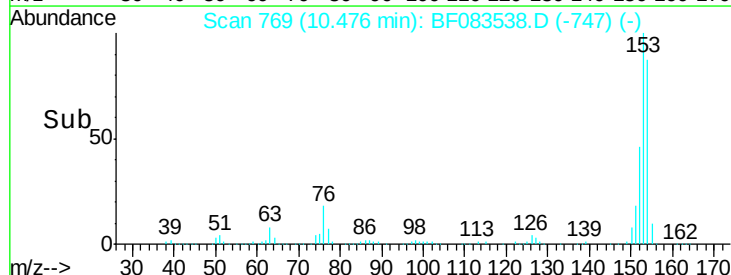
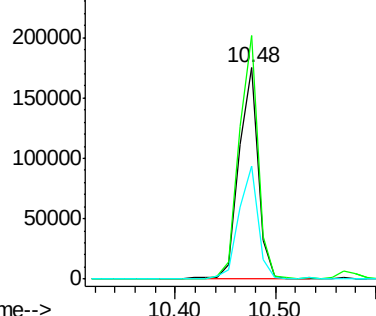


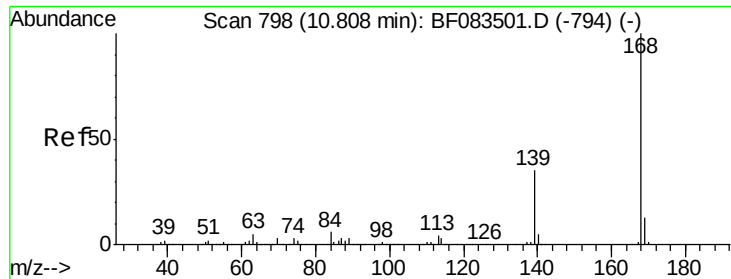
#51
Acenaphthene
Concen: 10.92 ng
RT: 10.48 min Scan# 769
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	232896		
153	115.2		91.4	137.0
152	53.3		43.4	65.2



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





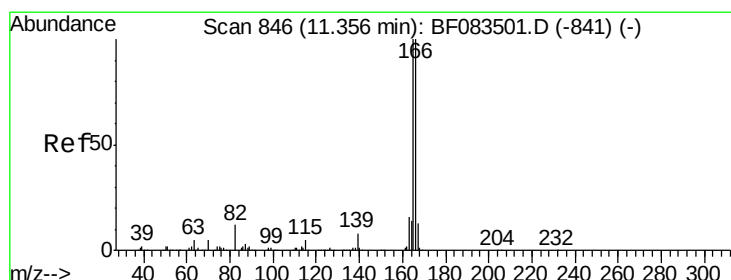
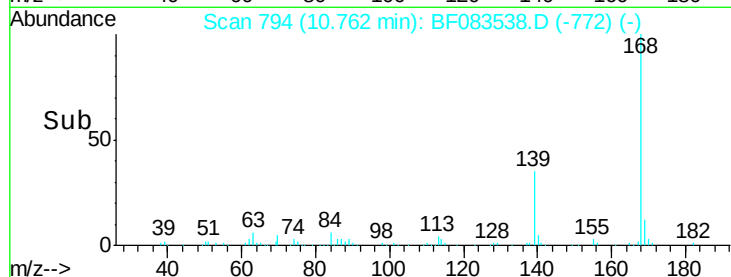
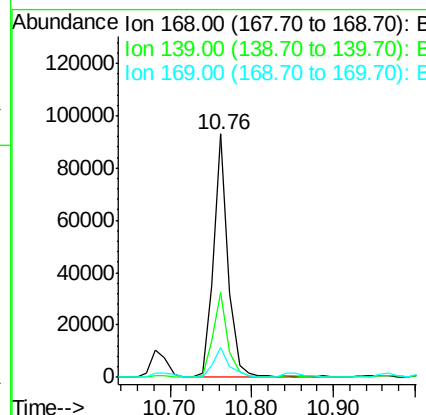
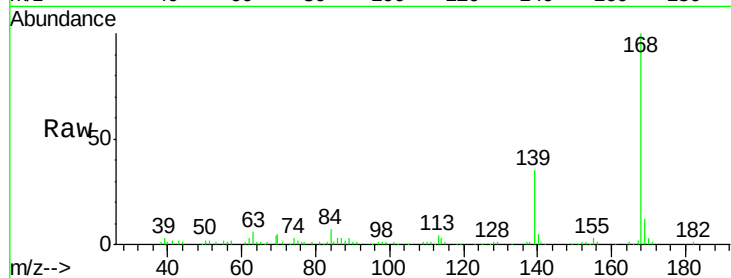
#54
Dibenzofuran
Concen: 3.97 ng
RT: 10.76 min Scan# 794
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

Tot Ion	Ratio	Resp	Lower	Upper
168	100	117253		
139	34.9	28.0	42.0	
169	12.1	10.8	16.2	

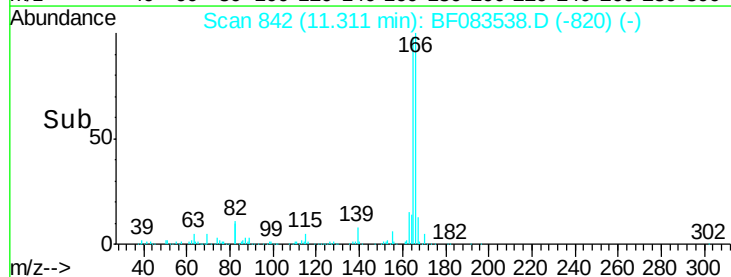
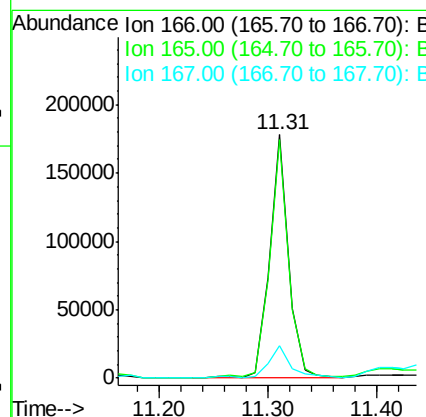
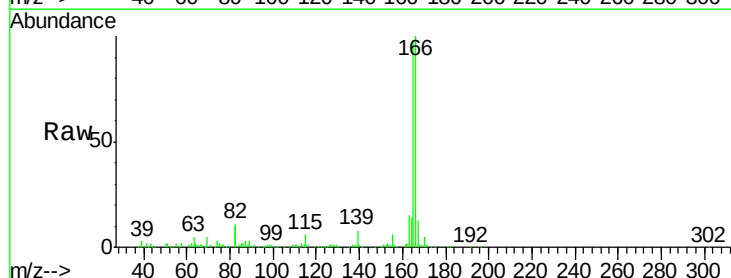
Manual Integrations
APPROVED

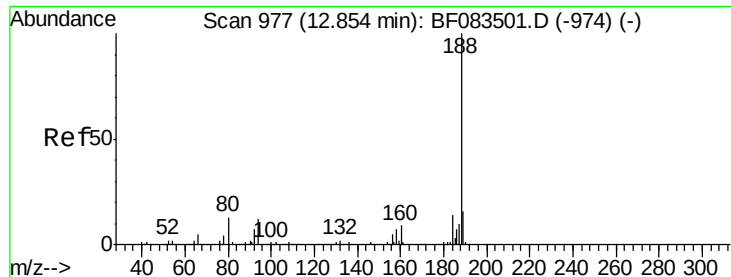
Mmdadoda
12/7/2015 6:33:27 PM



#57
Fluorene
Concen: 8.51 ng
RT: 11.31 min Scan# 842
Delta R.T. -0.05 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	218606		
165	97.7	80.0	120.0	
167	13.3	10.6	16.0	





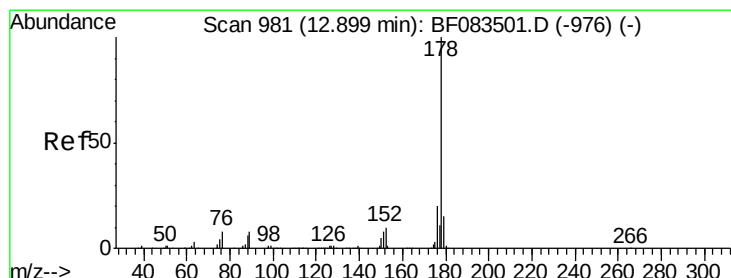
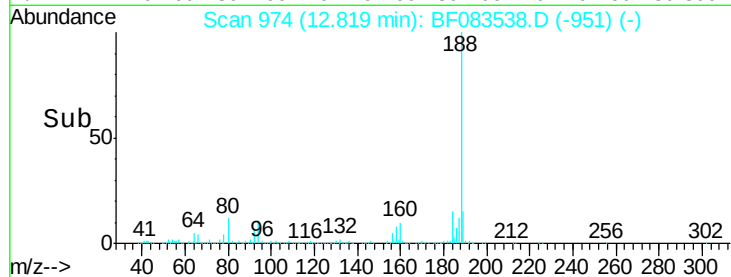
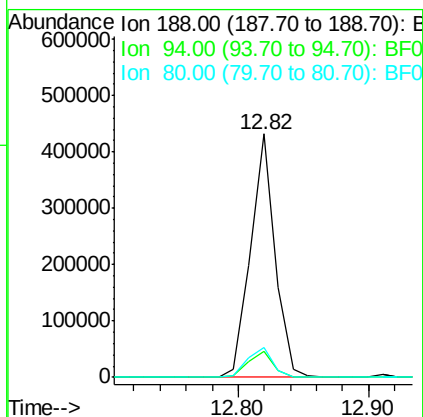
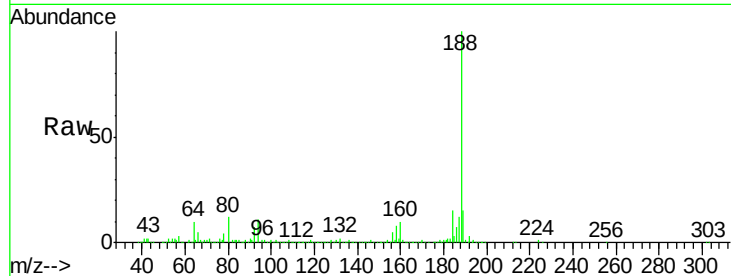
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.82 min Scan# 974
Delta R.T. -0.03 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.8	9.4	14.2
80	12.1	10.6	16.0

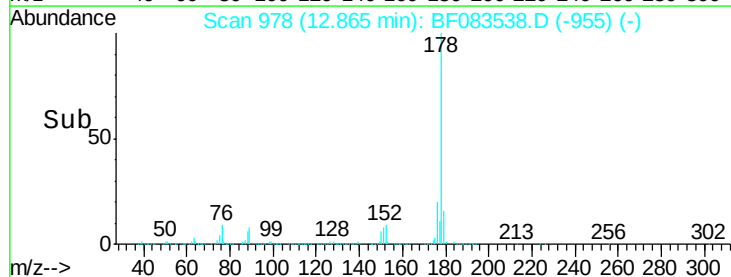
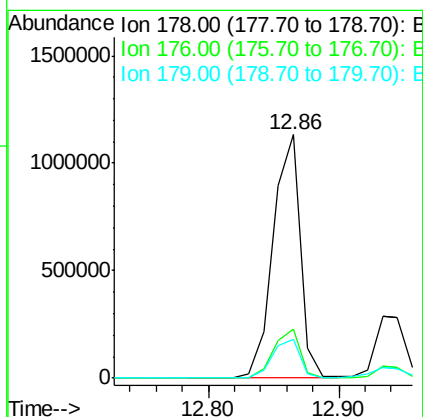
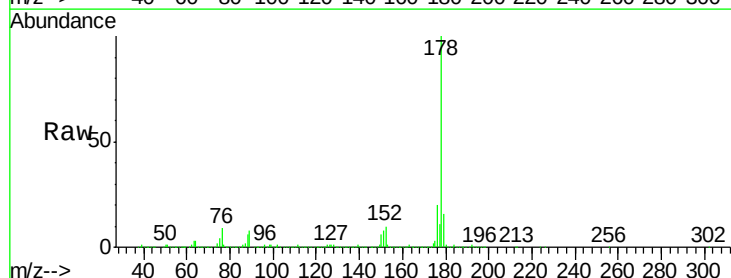
Manual Integrations
APPROVED

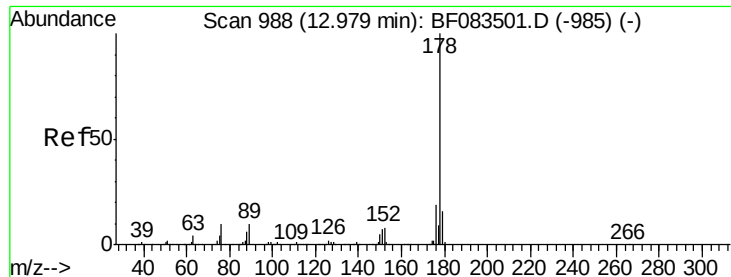
Mmdadoda
12/7/2015 6:33:27 PM



#70
Phenanthrene
Concen: 50.39 ng
RT: 12.86 min Scan# 978
Delta R.T. -0.03 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.9	15.7	23.5
179	15.8	12.2	18.4





#71

Anthracene

Concen: 13.58 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Instrument :

BNA_F

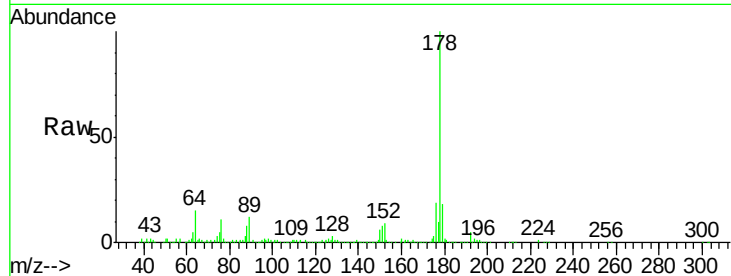
ClientSampleId :

S35-15.5

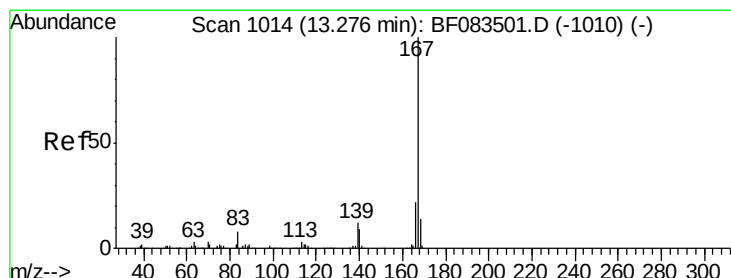
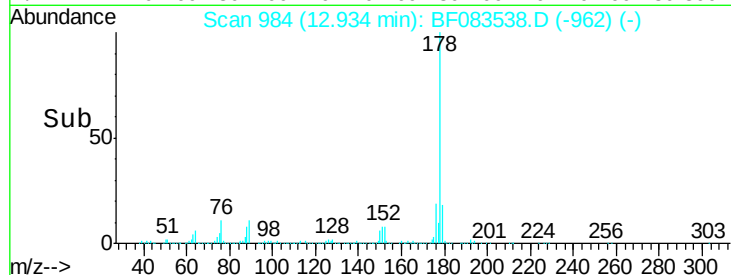
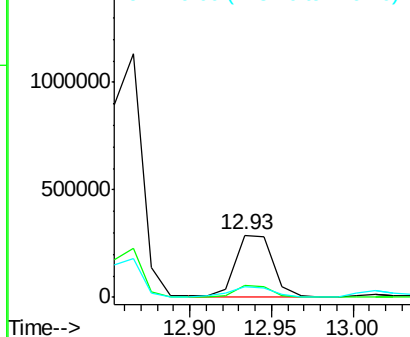
Tot Ion:	178	Resp:	456002
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.2	22.8
179	17.9	12.6	18.8

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 4.27 ng

RT: 13.24 min Scan# 1011

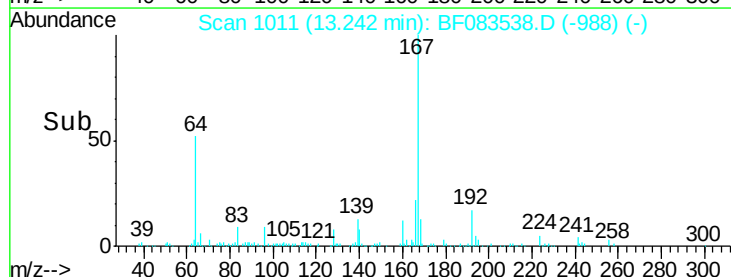
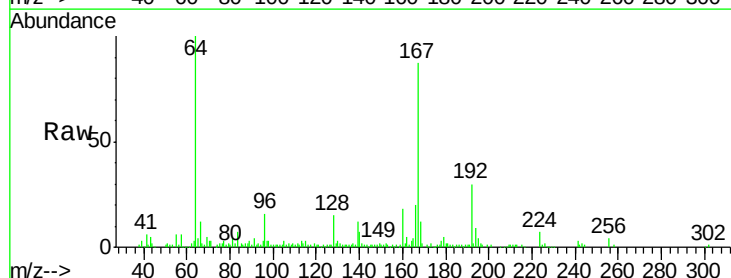
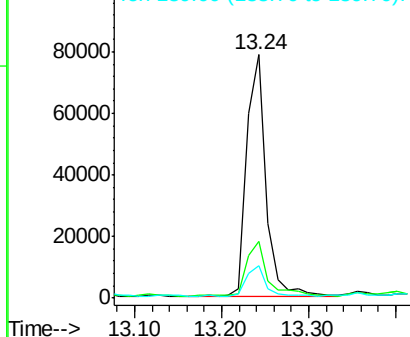
Delta R.T. -0.03 min

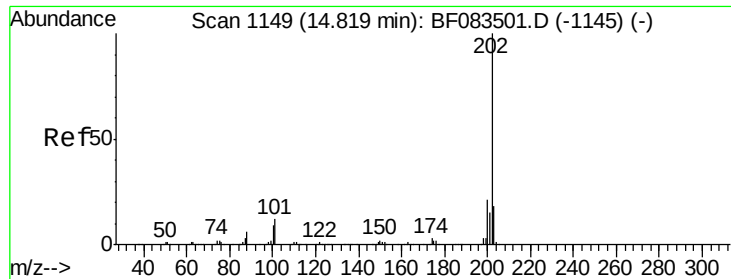
Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Tgt Ion:	167	Resp:	123267
Ion Ratio	Lower	Upper	
167	100		
166	23.1	17.2	25.8
139	13.3	9.3	13.9

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 65.47 ng

RT: 14.80 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Instrument :

BNA_F

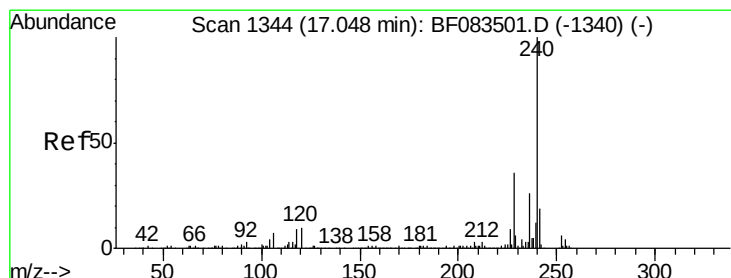
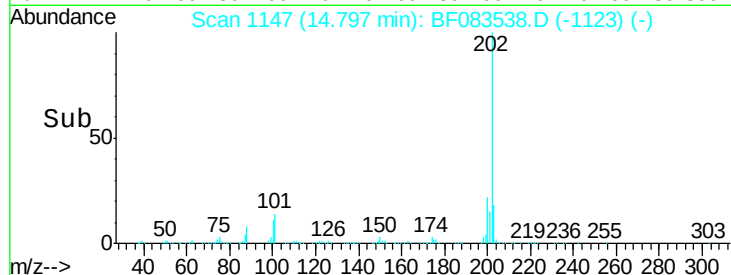
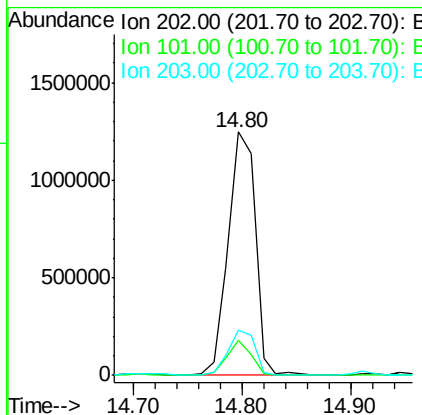
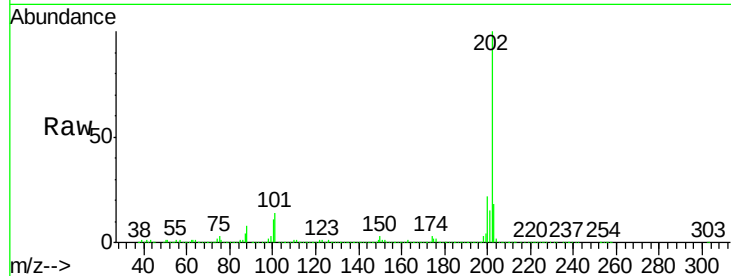
ClientSampleId :

S35-15.5

Tot Ion:	202	Resp:	2136795
Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	31.5
203	18.4	0.0	37.6

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM



#75

Chrysene-d12

Concen: 20.00 ng

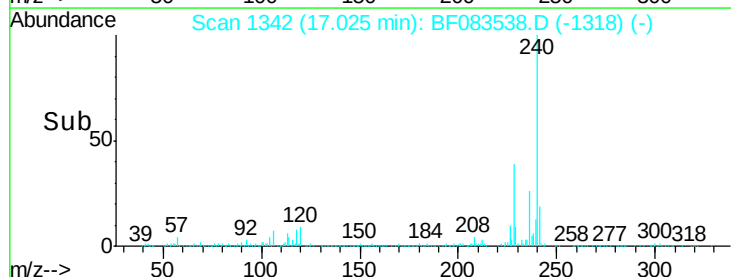
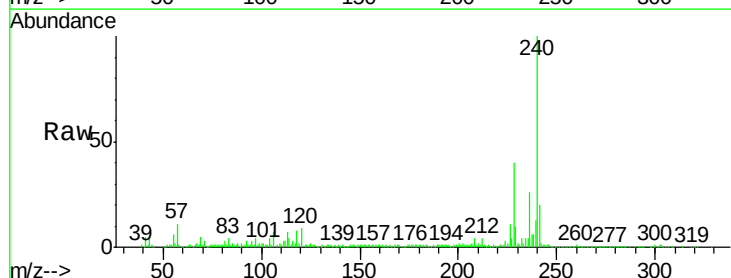
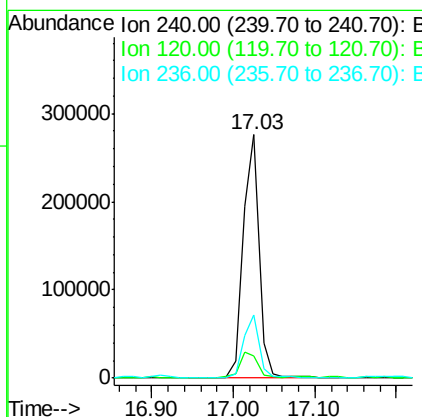
RT: 17.03 min Scan# 1342

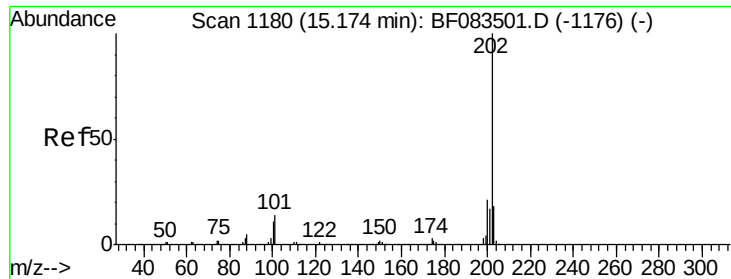
Delta R.T. -0.02 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Tgt Ion:	240	Resp:	369176
Ion	Ratio	Lower	Upper
240	100		
120	9.1	8.1	12.1
236	26.1	20.8	31.2





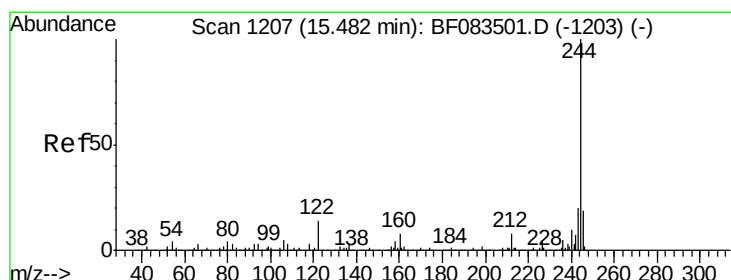
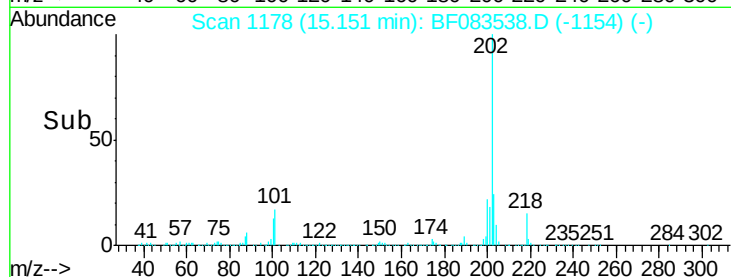
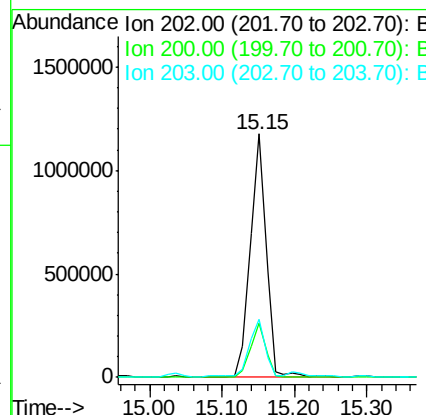
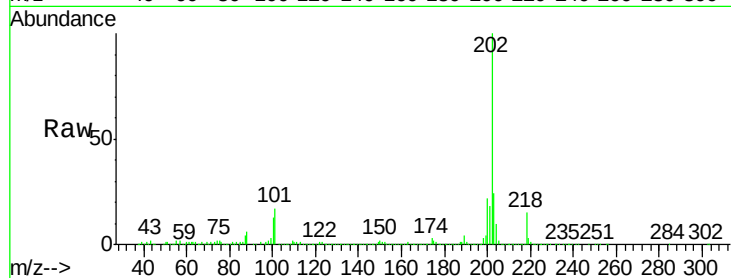
#77
Pvrene
Concen: 65.03 ng
RT: 15.15 min Scan# 1178
Delta R.T. -0.02 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.4	16.7	25.1
203	24.1	14.3	21.5

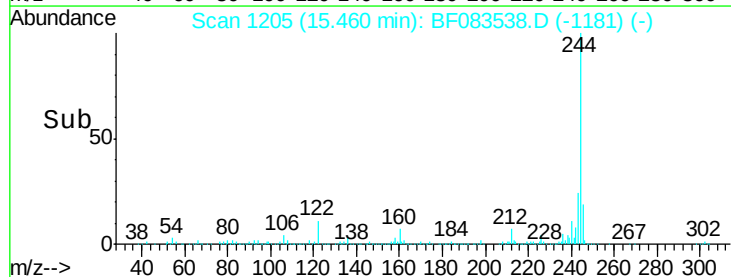
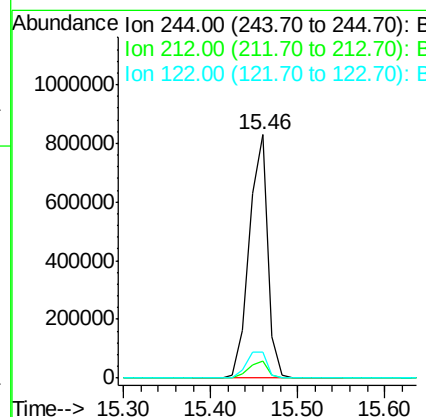
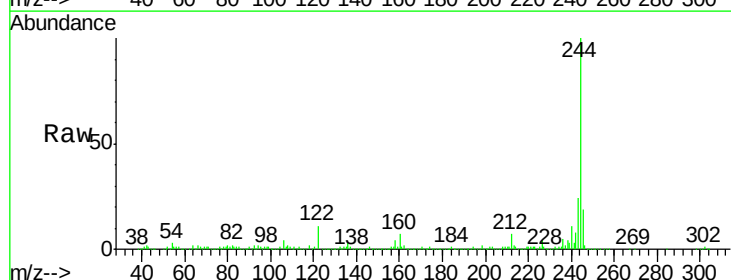
Manual Integrations
APPROVED

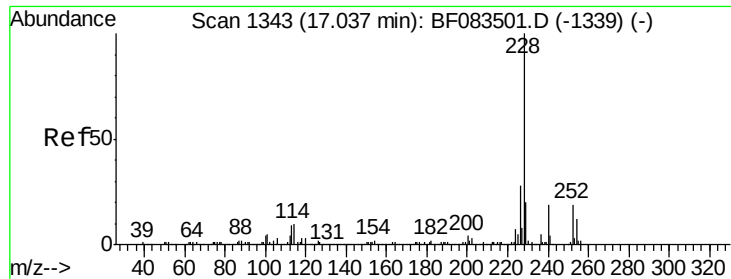
Mmdadoda
12/7/2015 6:33:27 PM



#78
Terphenyl-d14
Concen: 74.04 ng
RT: 15.46 min Scan# 1205
Delta R.T. -0.02 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.1	9.1
122	10.8	11.0	16.6





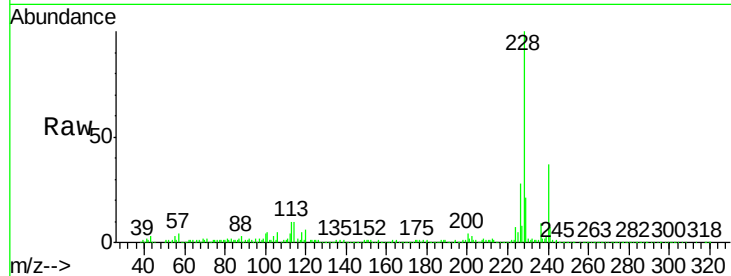
#80
Benzo(a)anthracene
Concen: 35.99 ng
RT: 17.01 min Scan# 1341
Delta R.T. -0.02 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

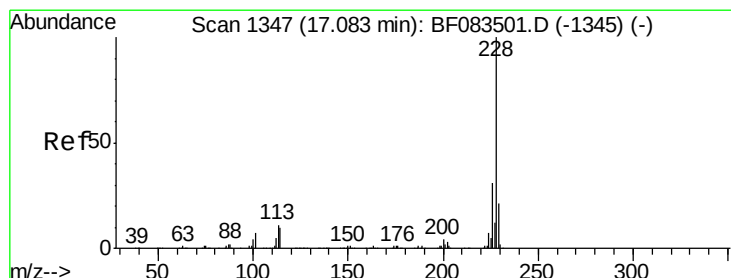
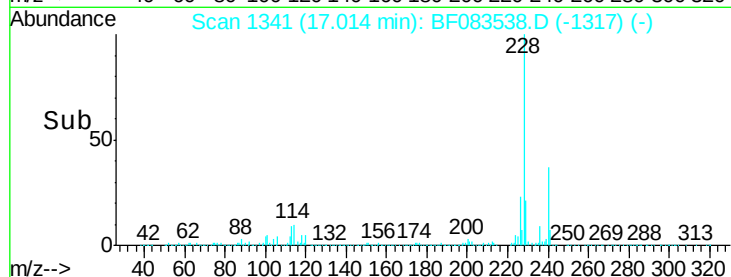
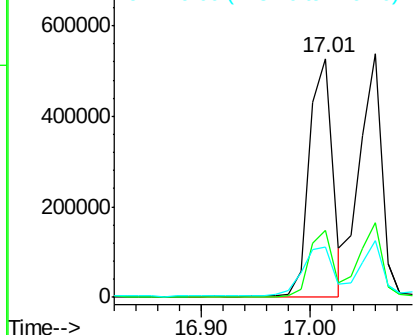
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.3	33.5
229	20.9	15.7	23.5

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM



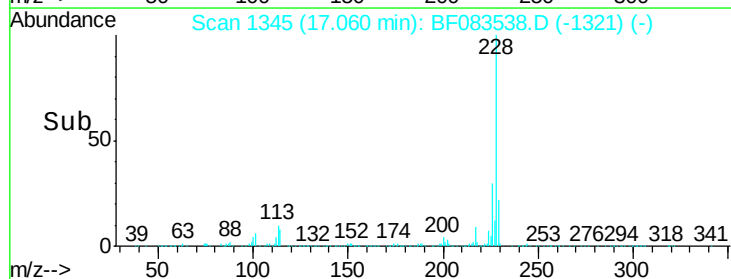
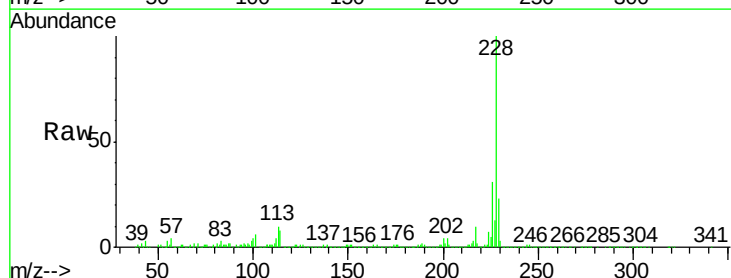
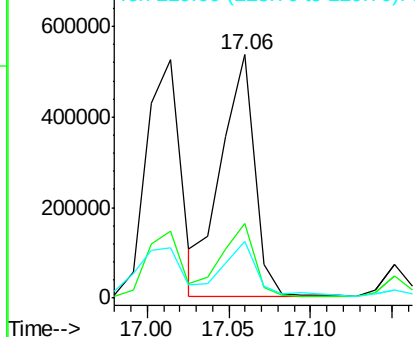
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

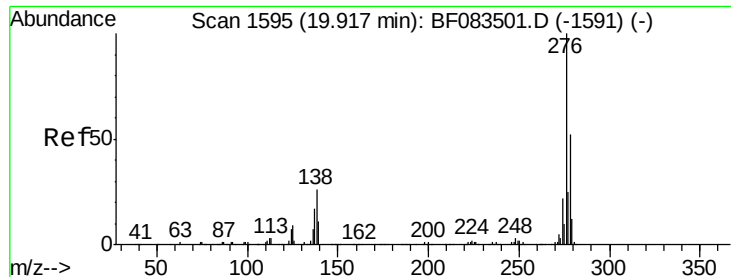


#82
Chrysene
Concen: 35.37 ng
RT: 17.06 min Scan# 1345
Delta R.T. -0.02 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	23.3	16.3	24.5

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





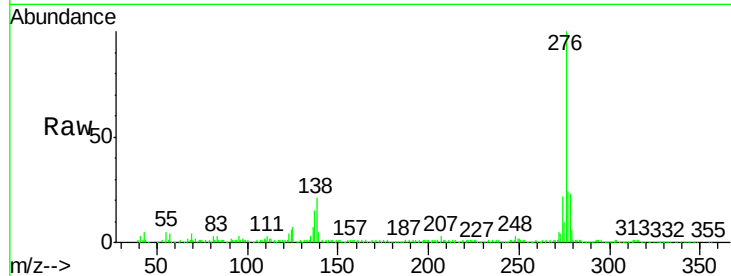
#85
Indeno(1,2,3-cd)pyrene
Concen: 18.66 ng
RT: 19.89 min Scan# 1593
Delta R.T. -0.02 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

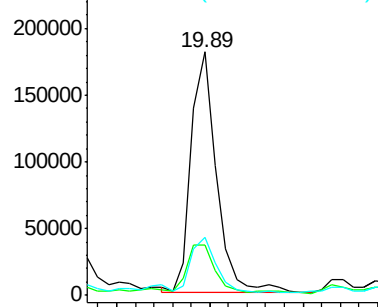
Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	22.9	0.0	0.0#
277	25.8	0.0	0.0#

Manual Integrations
APPROVED

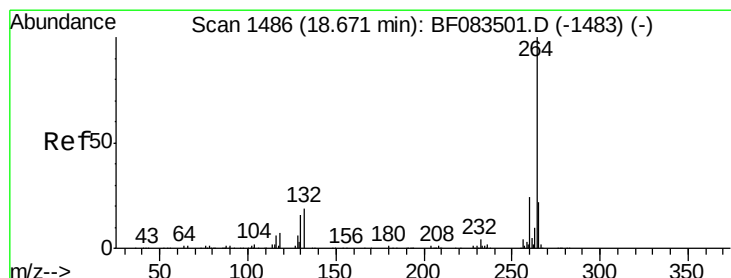
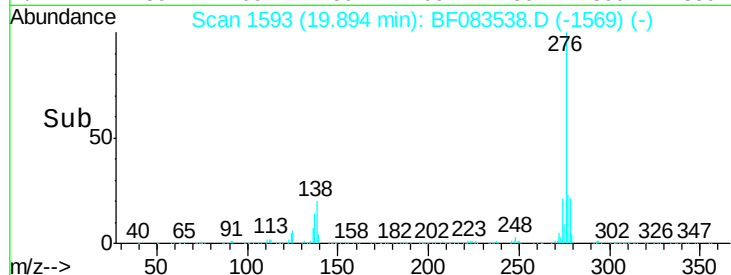
Mmdadoda
12/7/2015 6:33:27 PM



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

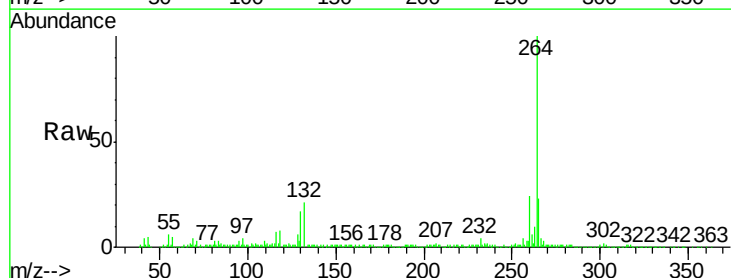


Time-->

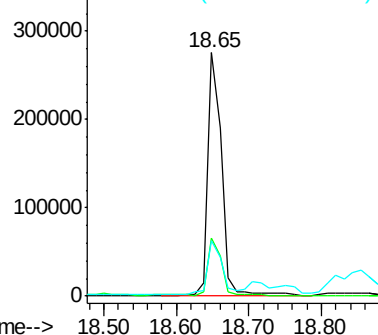


#86
Perylene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 1484
Delta R.T. -0.02 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

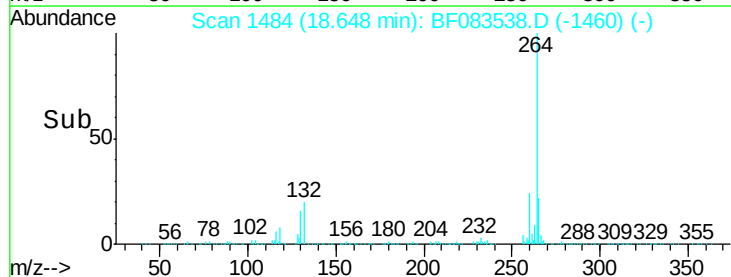
Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	24.0	19.4	29.0
265	22.9	17.8	26.6

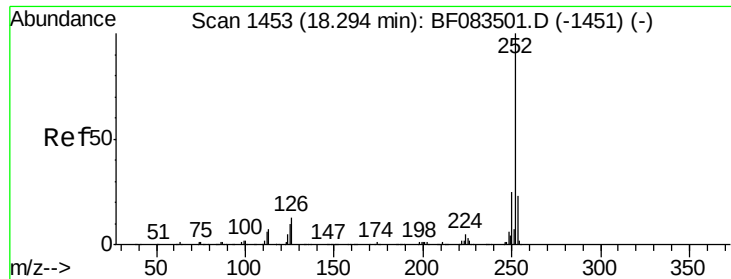


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->





#87

Benzo(b)fluoranthene

Concen: 40.99 ng m

RT: 18.27 min Scan# 1451

Delta R.T. -0.02 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Instrument :

BNA_F

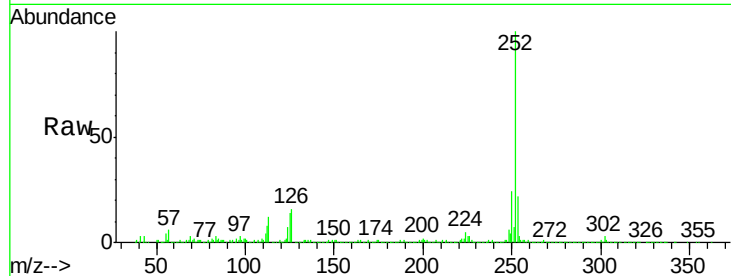
ClientSampleId :

S35-15.5

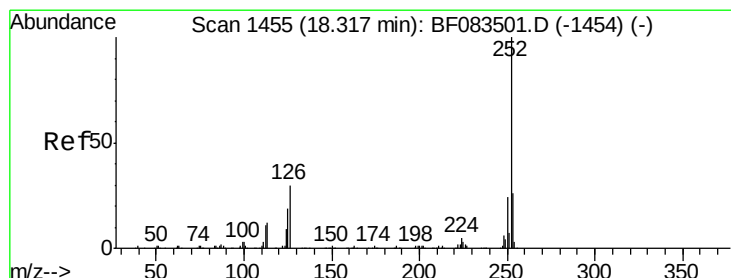
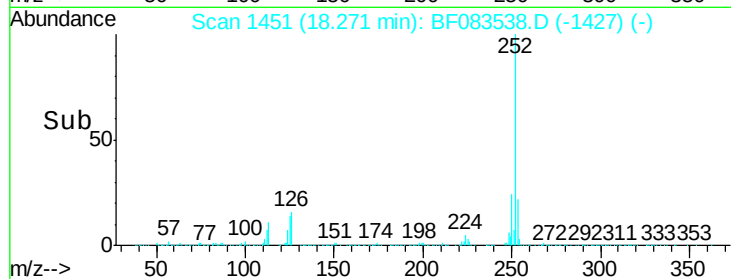
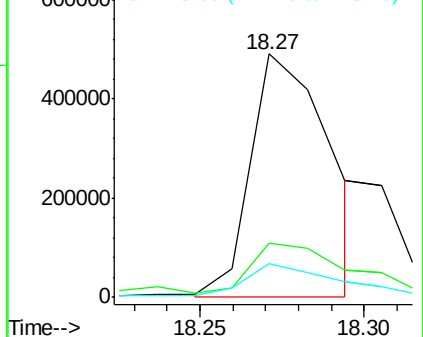
Tot Ion:	252	Resp:	825638
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.2	27.4
125	14.1	8.2	12.4#

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 9.33 ng m

RT: 18.29 min Scan# 1453

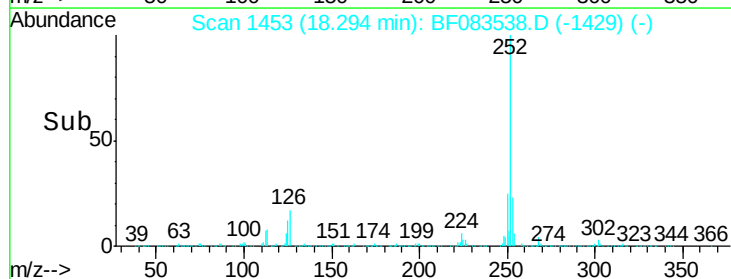
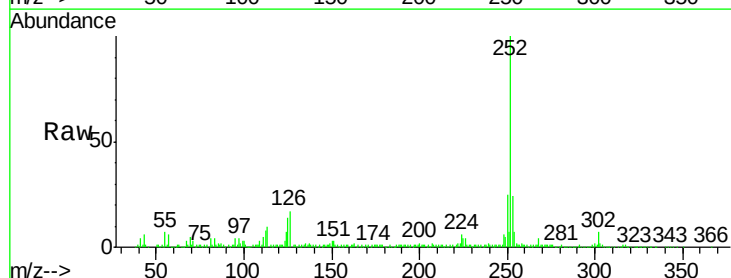
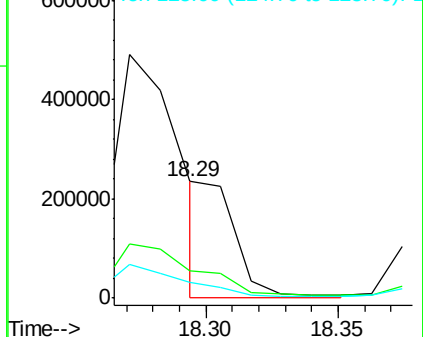
Delta R.T. -0.02 min

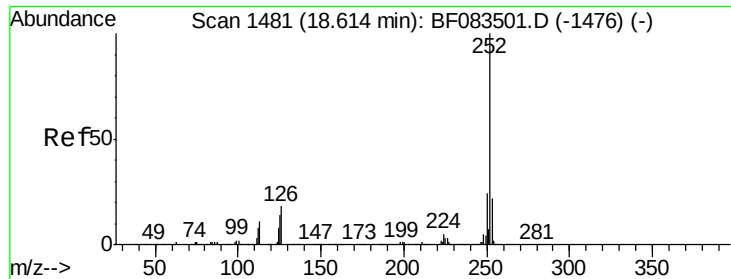
Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Tgt Ion:	252	Resp:	192461
Ion Ratio	Lower	Upper	
252	100		
253	24.0	18.6	27.8
125	13.8	11.5	17.3

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





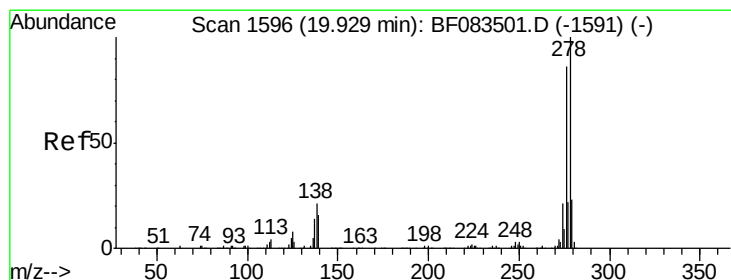
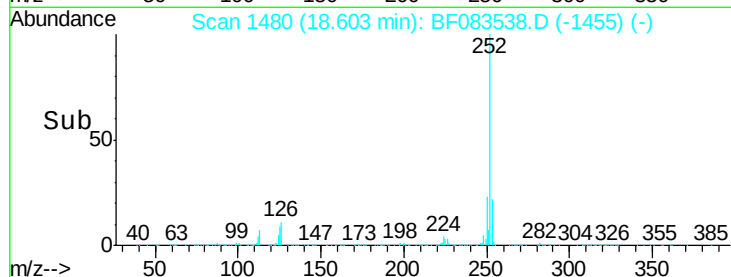
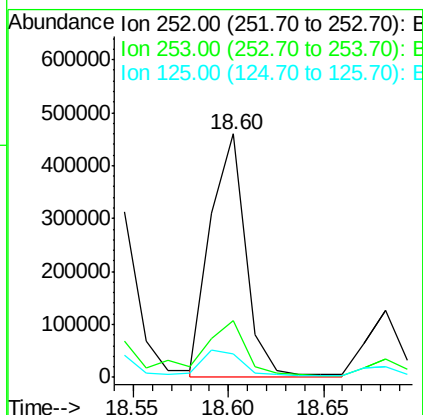
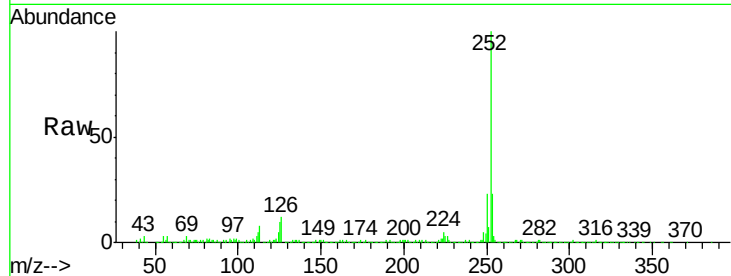
#89
Benzo(a)pyrene
Concen: 30.90 ng/ml
RT: 18.60 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Instrument :
BNA_F
ClientSampleId :
S35-15.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	9.6	11.0	16.6

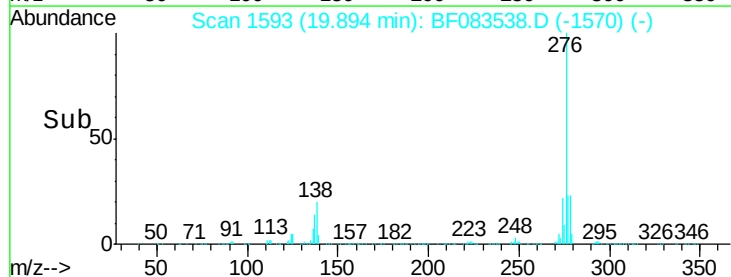
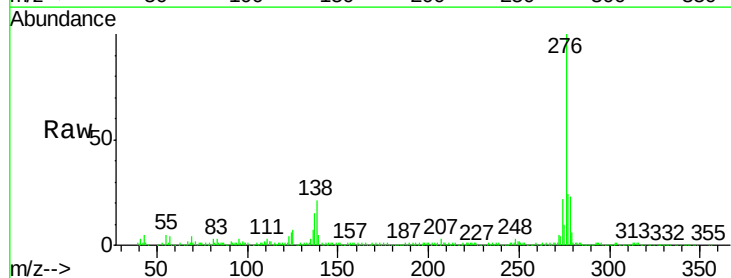
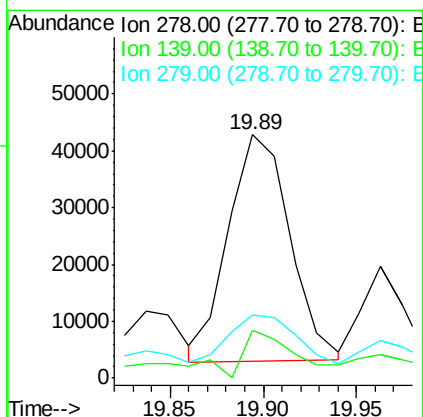
Manual Integrations
APPROVED

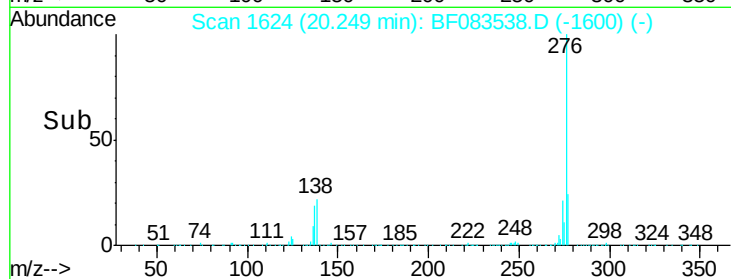
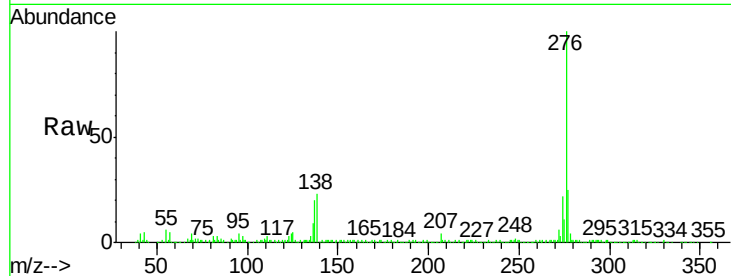
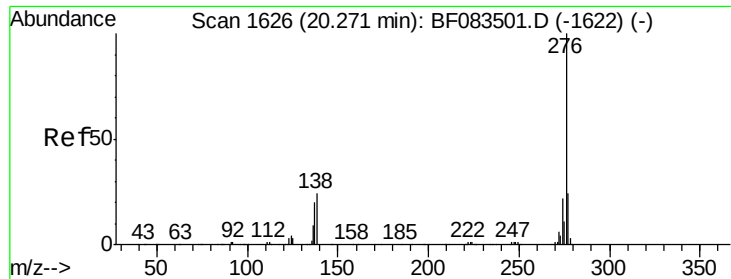
Mmdadoda
12/7/2015 6:33:27 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.84 ng/ml
RT: 19.89 min Scan# 1593
Delta R.T. -0.03 min
Lab File: BF083538.D
Acq: 7 Dec 2015 2:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.8	12.8	19.2
279	26.0	18.6	28.0





#91

Benzo(a,h,i)perylene

Concen: 16.38 ng

RT: 20.25 min Scan# 1624

Delta R.T. -0.02 min

Lab File: BF083538.D

Acq: 7 Dec 2015 2:17

Tot Ion:	276	Resp:	311227
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.2	28.8
138	22.6	19.5	29.3

Instrument :

BNA_F

ClientSampleId :

S35-15.5

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:27 PM

