

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083544.D
 Acq On : 7 Dec 2015 5:49
 Operator : UM/IZ
 Sample : G4594-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K204-0-2

Manual Integrations
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 12/7/2015 6:33:32 PM

Quant Time: Dec 07 11:54:23 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	165583	20.00	ng	-0.03
21) Naphthalene-d8	7.63	136	619332	20.00	ng	-0.05
38) Acenaphthene-d10	10.43	164	282516	20.00	ng	-0.03
63) Phenanthrene-d10	12.82	188	449037	20.00	ng	-0.03
75) Chrysene-d12	17.04	240	313954	20.00	ng	-0.01
86) Perylene-d12	18.66	264	307777	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.01	112	1169104	107.12	ng	-0.02
7) Phenol-d6	5.30	99	1600458	106.43	ng	-0.02
23) Nitrobenzene-d5	6.56	82	1061615	80.13	ng	-0.05
41) 2,4,6-Tribromophenol	11.72	330	270314	103.72	ng	-0.03
44) 2-Fluorobiphenyl	9.38	172	1368550	65.70	ng	-0.05
78) Terphenyl-d14	15.46	244	884316	62.68	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.66	128	305822	9.28	ng	98
37) 2-Methylnaphthalene	8.77	142	103302	5.07	ng	95
48) Acenaphthylene	10.19	152	799216	25.80	ng	99
49) Dimethylphthalate	10.06	163	343613	15.45	ng	99
51) Acenaphthene	10.48	154	35811	2.01	ng	97
54) Dibenzofuran	10.76	168	66440m	2.69	ng	
57) Fluorene	11.32	166	90099m	4.19	ng	
70) Phenanthrene	12.87	178	1002355	38.35	ng	99
71) Anthracene	12.95	178	452188	16.96	ng	99
72) Carbazole	13.24	167	64050	2.80	ng	# 96
74) Fluoranthene	14.80	202	1855414	71.63	ng	97
77) Pyrene	15.16	202	2317407	98.67	ng	98
80) Benzo(a)anthracene	17.03	228	1310406	71.34	ng	93
82) Chrysene	17.07	228	1362152	74.44	ng	98
85) Indeno(1,2,3-cd)pyrene	19.91	276	776875	49.53	ng	# 100
87) Benzo(b)fluoranthene	18.29	252	1592795m	92.15	ng	
88) Benzo(k)fluoranthene	18.32	252	406210m	22.94	ng	
89) Benzo(a)pyrene	18.61	252	1110965	66.08	ng	96
90) Dibenzo(a,h)anthracene	19.92	278	219099	13.54	ng	95
91) Benzo(a,h,i)perylene	20.27	276	779046	47.79	ng	98

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

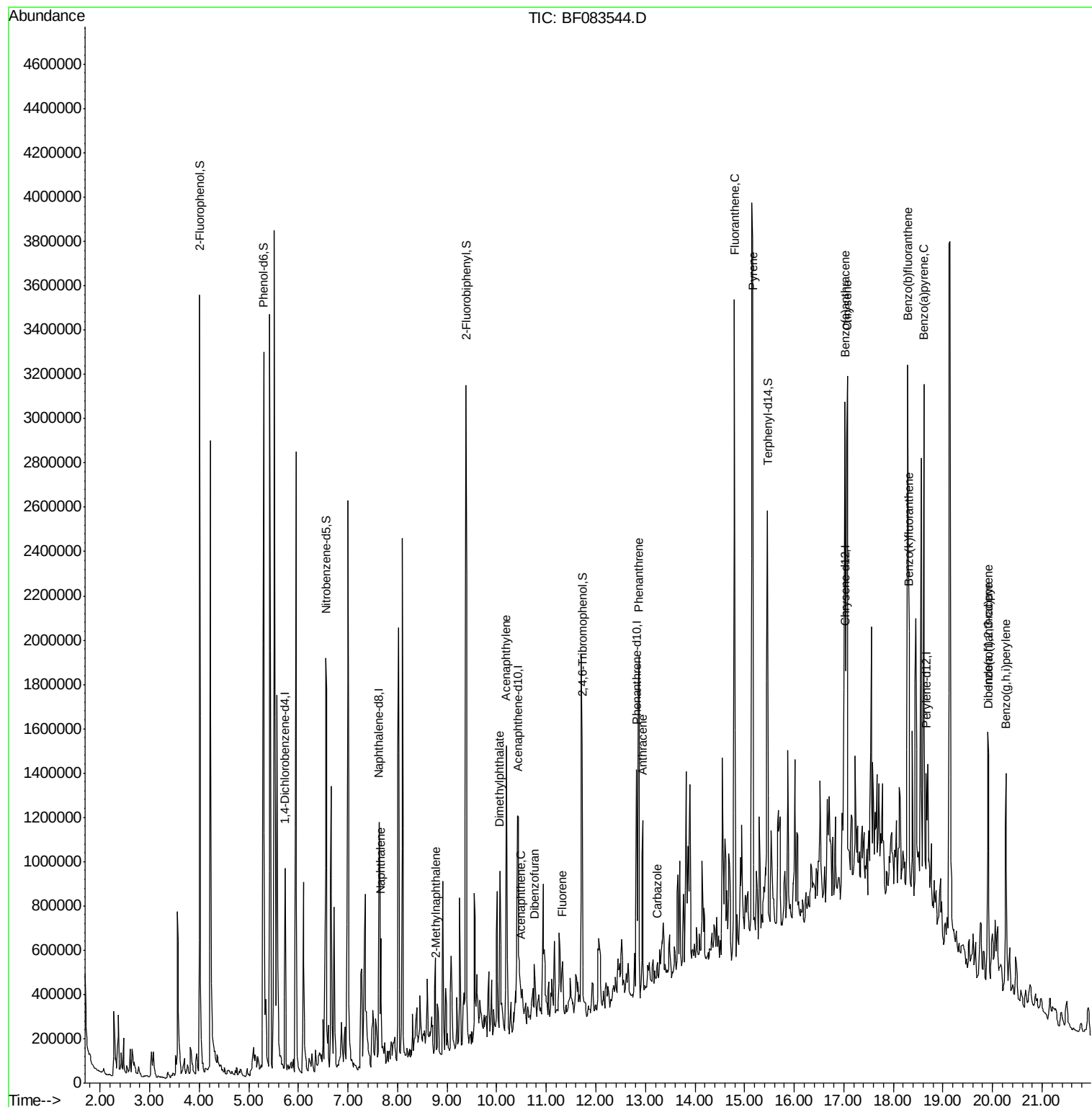
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083544.D
Acq On : 7 Dec 2015 5:49
Operator : UM/IZ
Sample : G4594-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

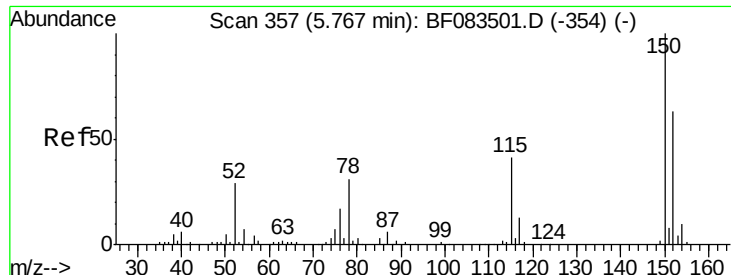
Instrument :
BNA_F
ClientSampled :
K204-0-2

Manual Integrations
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Quant Time: Dec 07 11:54:23 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

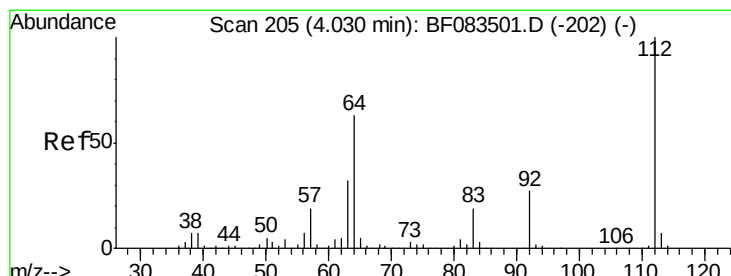
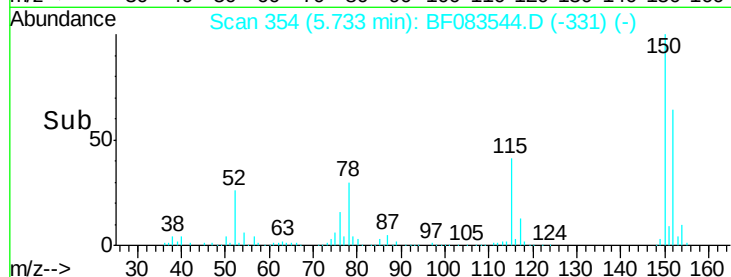
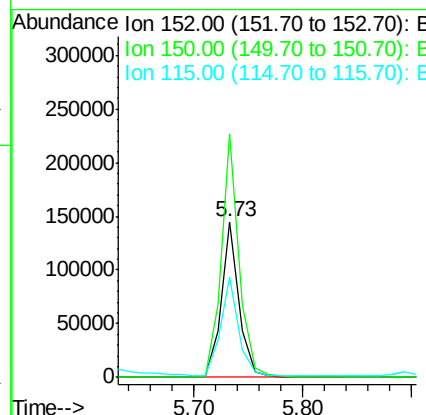
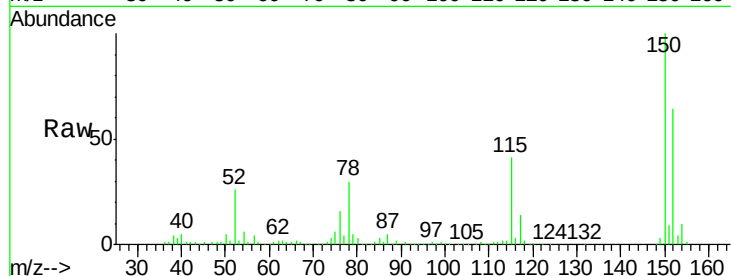
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.73 min Scan# 354
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleId :
K204-0-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	126.5	189.7
115	64.8	52.3	78.5

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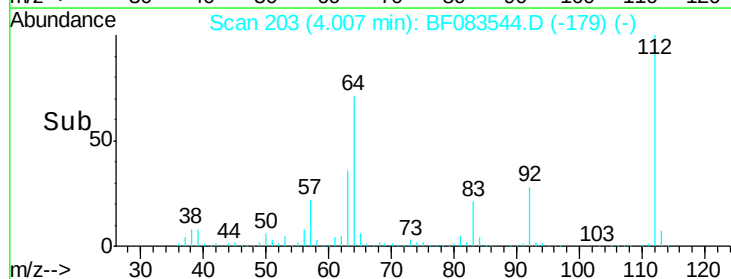
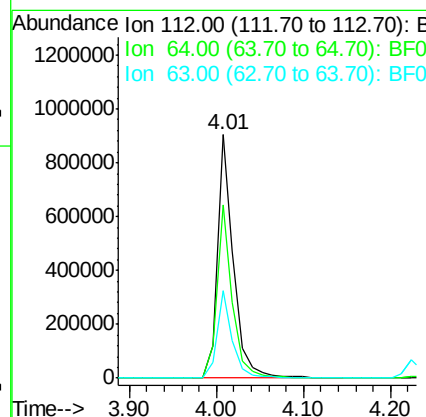
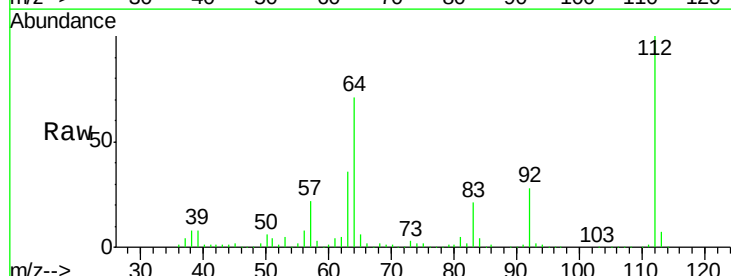
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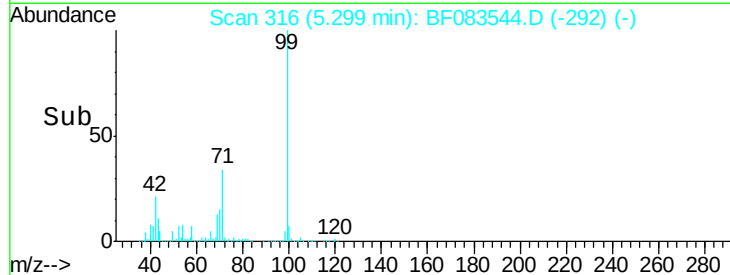
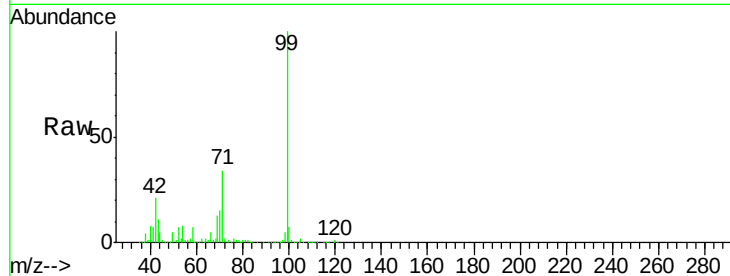
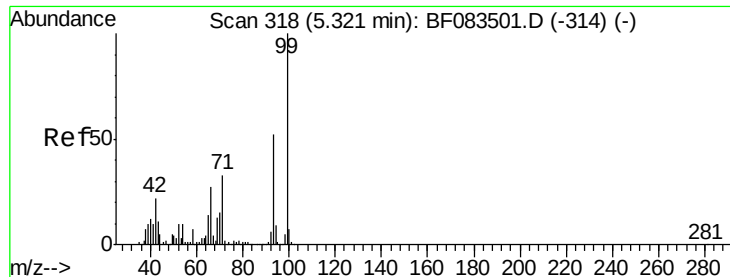


#5

2-Fluorophenol
Concen: 107.12 ng
RT: 4.01 min Scan# 203
Delta R.T. -0.02 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.2	50.5	75.7
63	35.8	25.8	38.6





#7

Phenol-d6

Concen: 106.43 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Tot Ion: 99 Resp: 1600458

Ion Ratio Lower Upper

99 100

42 21.0 17.3 25.9

71 34.0 26.6 40.0

Instrument :

BNA_F

ClientSampleId :

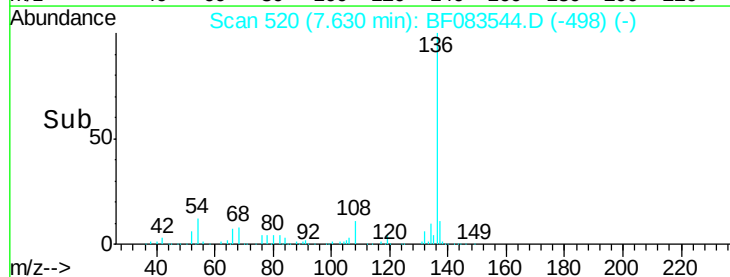
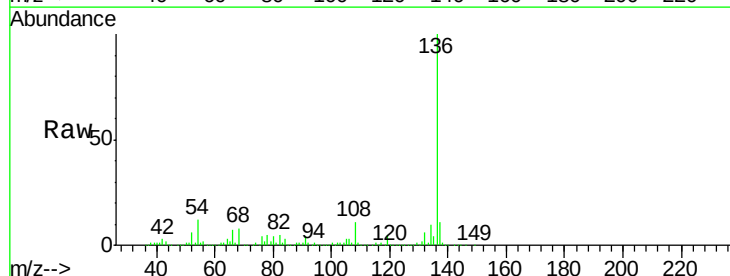
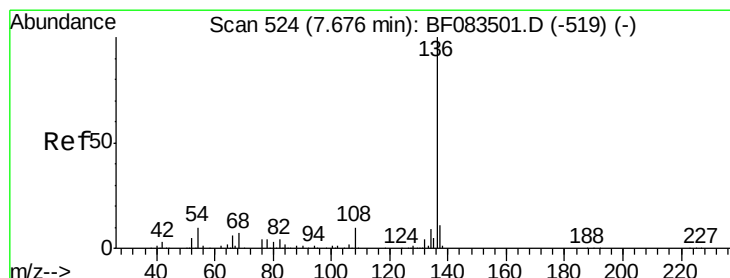
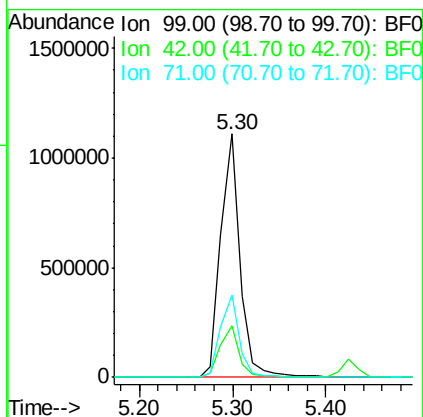
K204-0-2

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.63 min Scan# 520

Delta R.T. -0.05 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Tgt Ion: 136 Resp: 619332

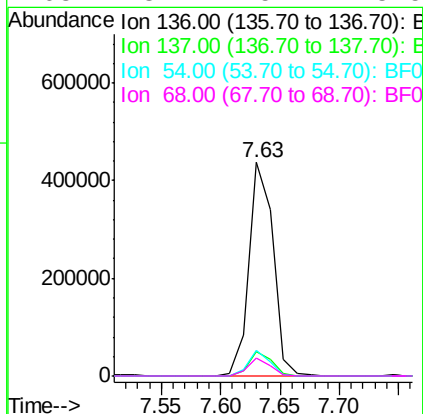
Ion Ratio Lower Upper

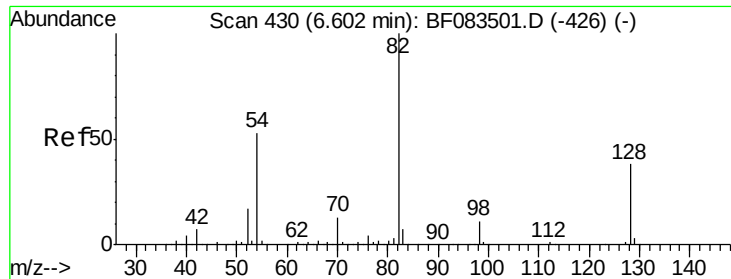
136 100

137 11.4 8.7 13.1

54 12.0 7.8 11.6#

68 8.2 5.7 8.5





#23

Nitrobenzene-d5

Concen: 80.13 ng

RT: 6.56 min Scan# 426

Delta R.T. -0.05 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Instrument :

BNA_F

ClientSampleId :

K204-0-2

Tot Ion: 82 Resp: 1061615

Ion Ratio Lower Upper

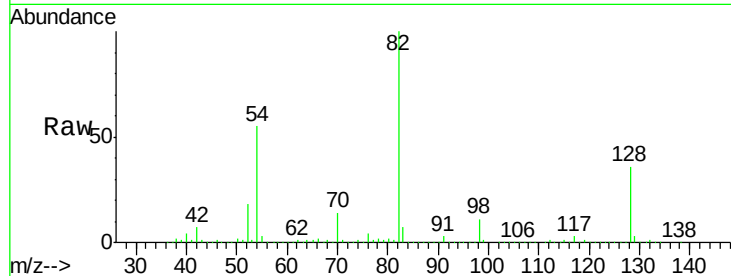
82 100

128 36.3 30.7 46.1

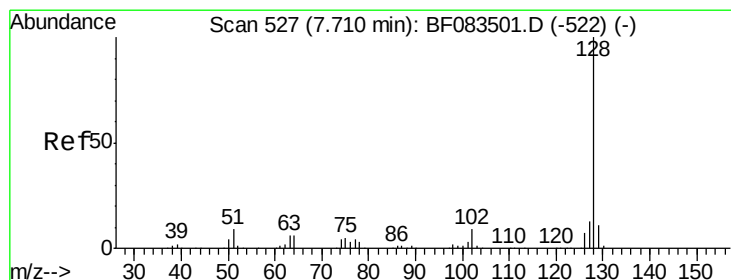
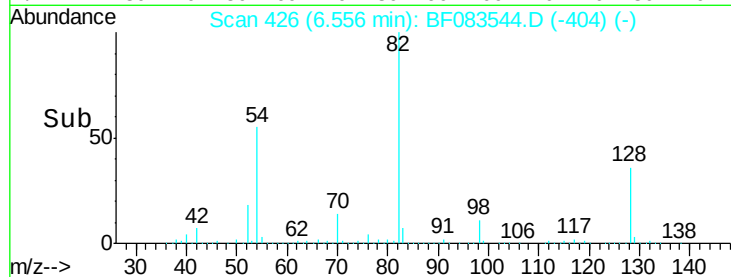
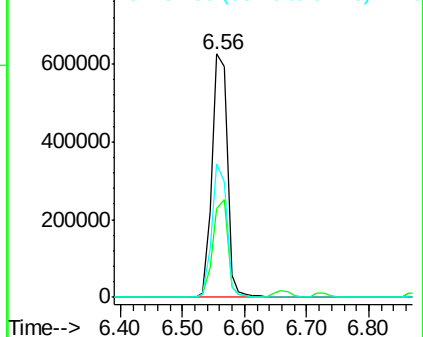
54 55.1 42.5 63.7

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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: 9.28 ng

RT: 7.66 min Scan# 523

Delta R.T. -0.05 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Tgt Ion: 128 Resp: 305822

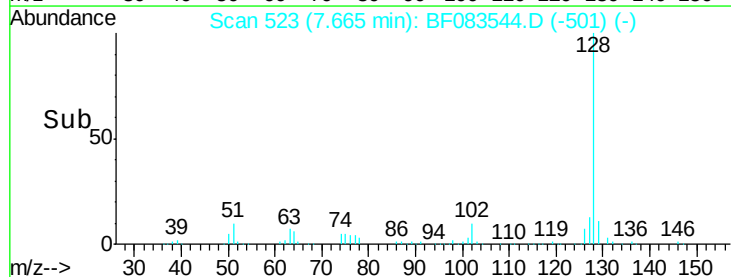
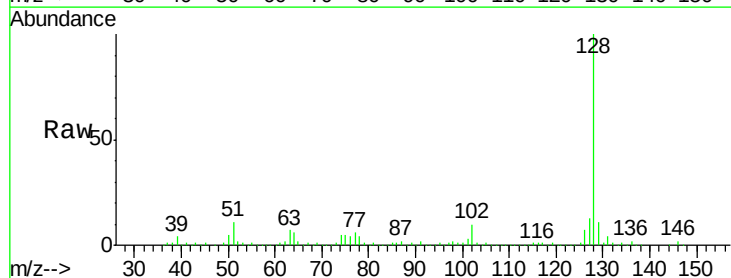
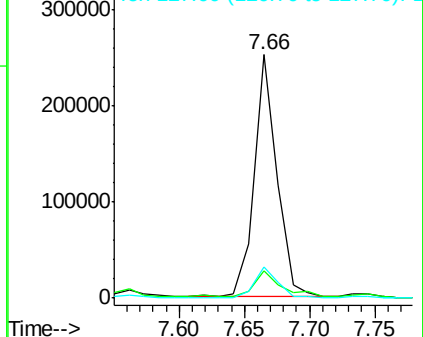
Ion Ratio Lower Upper

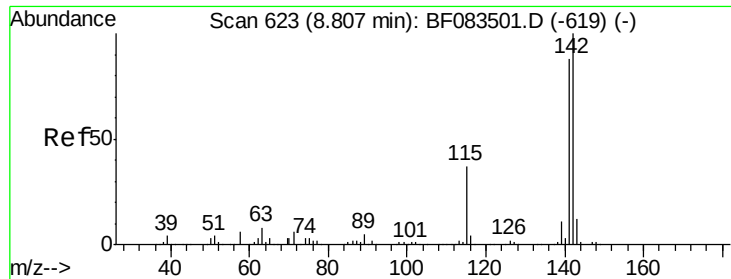
128 100

129 11.4 8.6 13.0

127 12.7 10.6 16.0

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





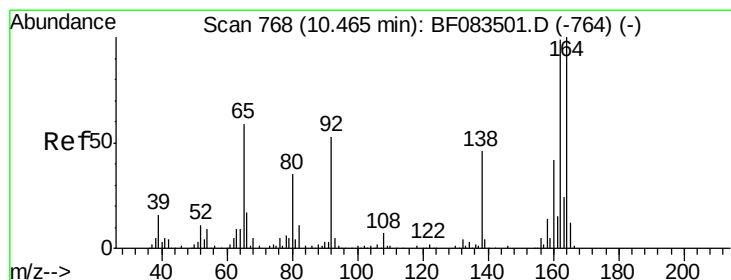
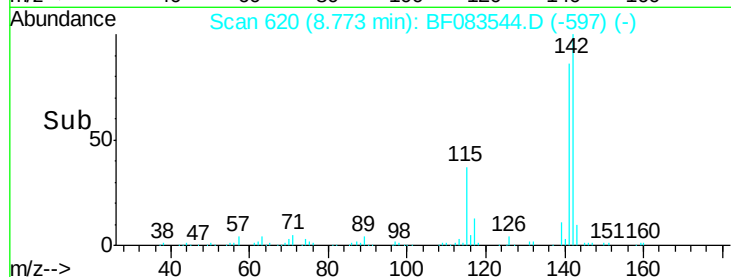
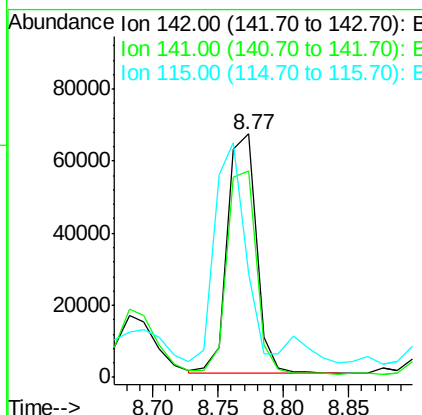
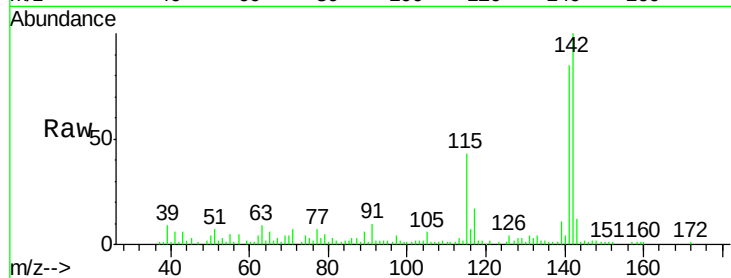
#37
2-Methylnaphthalene
Concen: 5.07 ng
RT: 8.77 min Scan# 620
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleId :
K204-0-2

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.0	70.3	105.5
115	43.0	29.2	43.8

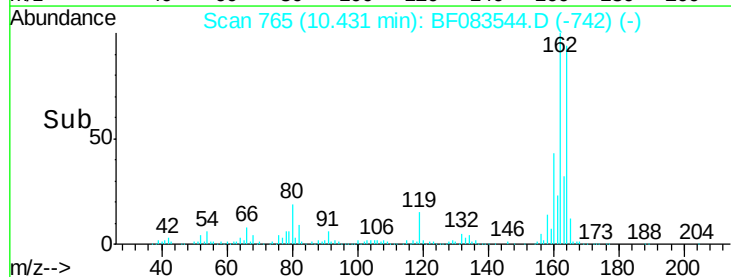
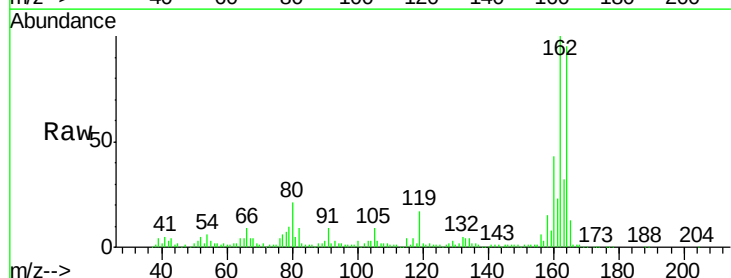
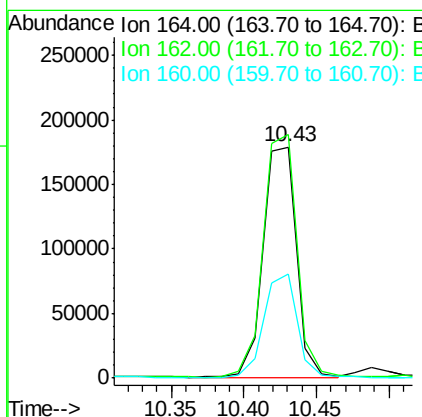
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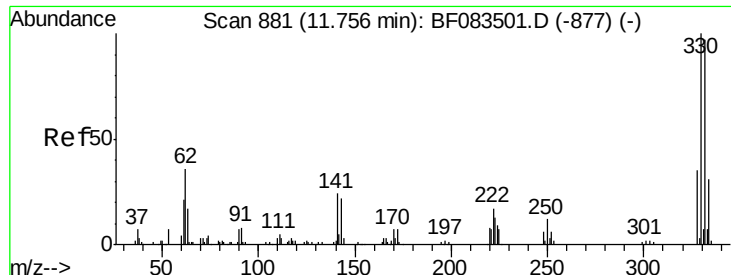
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.43 min Scan# 765
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.3	78.8	118.2
160	44.9	33.4	50.2





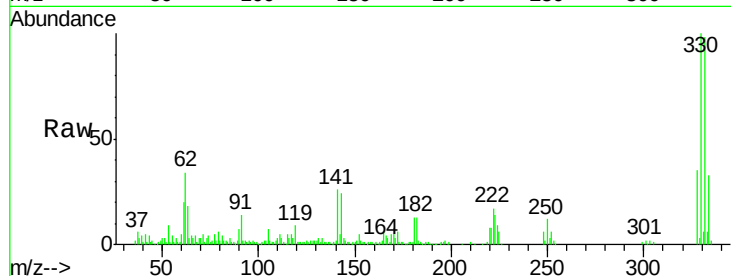
#41
 2,4,6-Tribromophenol
 Concen: 103.72 ng
 RT: 11.72 min Scan# 878
 Delta R.T. -0.03 min
 Lab File: BF083544.D
 Acq: 7 Dec 2015 5:49

Instrument :
 BNA_F
 ClientSampleId :
 K204-0-2

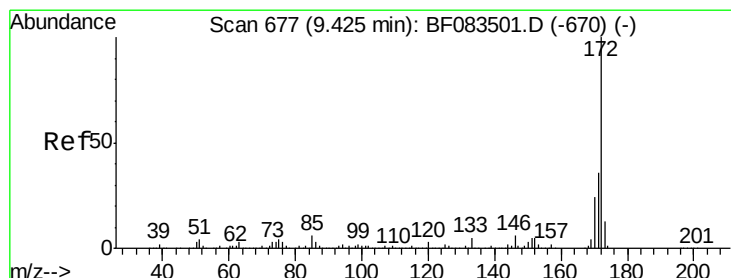
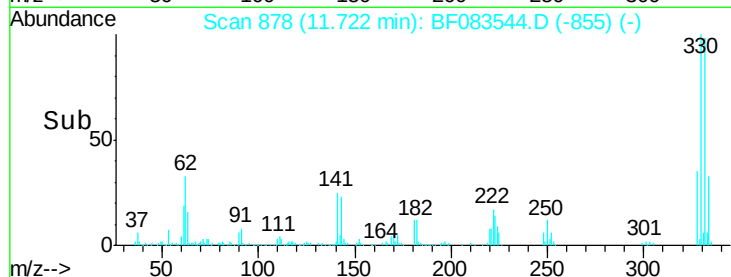
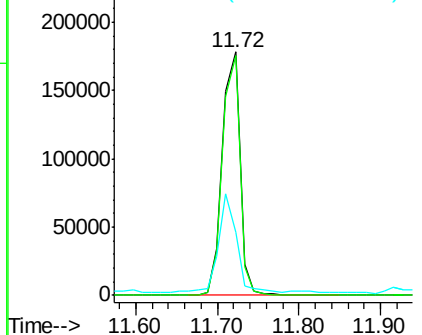
Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	97.4	0.0	0.0#
141	41.8	0.0	0.0#

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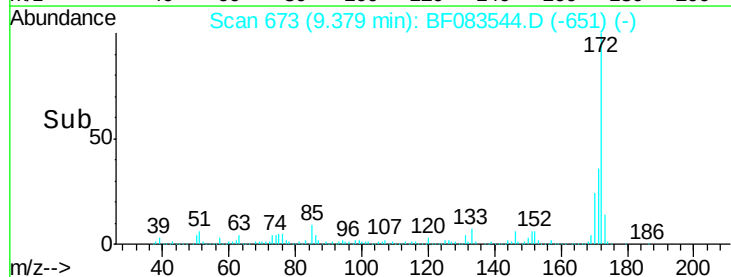
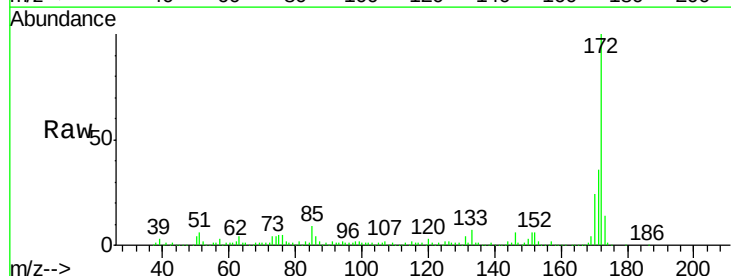
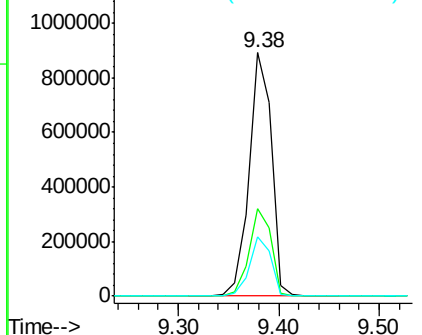
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

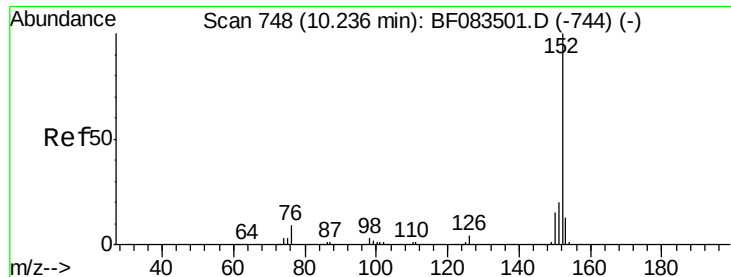


#44
 2-Fluorobiphenyl
 Concen: 65.70 ng
 RT: 9.38 min Scan# 673
 Delta R.T. -0.05 min
 Lab File: BF083544.D
 Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	36.2	28.6	42.8
170	24.3	19.4	29.0

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 25.80 ng

RT: 10.19 min Scan# 744

Delta R.T. -0.05 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Instrument :

BNA_F

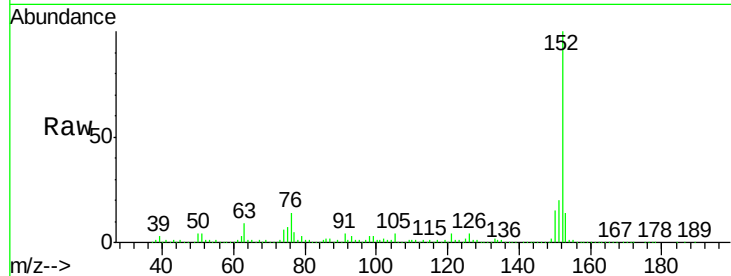
ClientSampleId :

K204-0-2

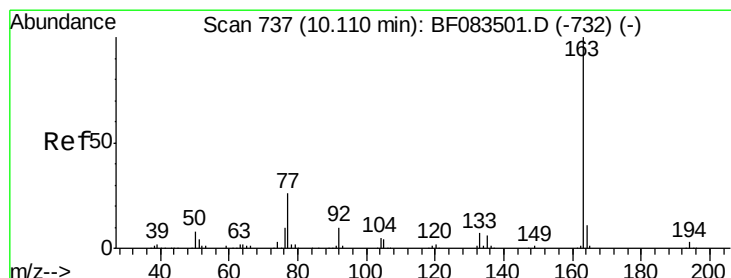
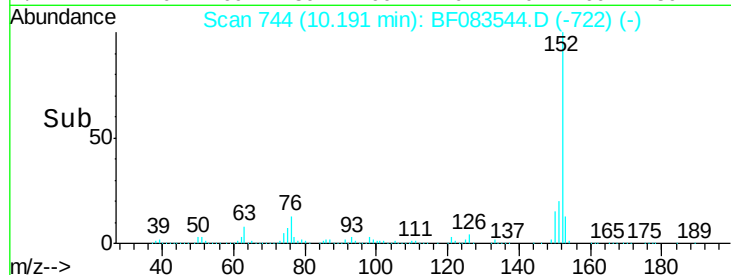
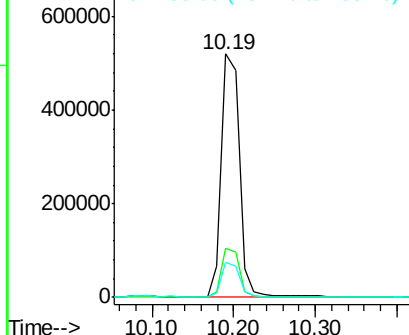
Tot Ion	Ion	Ratio	Resp	Lower	Upper
152	100		799216		
151	20.1	16.3	24.5		
153	14.2	10.8	16.2		

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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: 15.45 ng

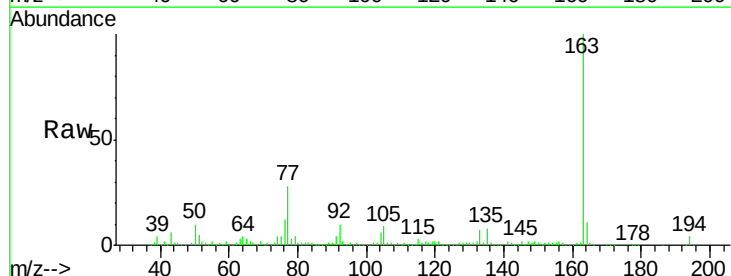
RT: 10.06 min Scan# 733

Delta R.T. -0.05 min

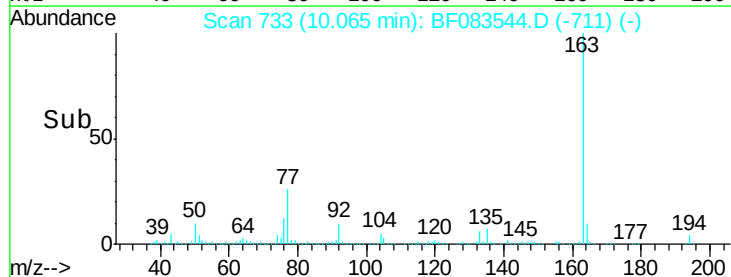
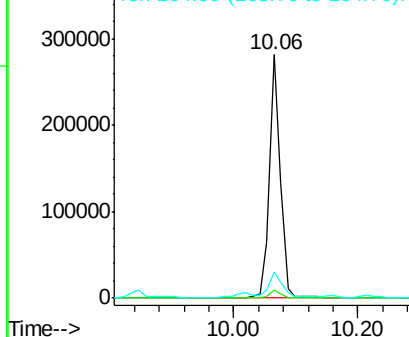
Lab File: BF083544.D

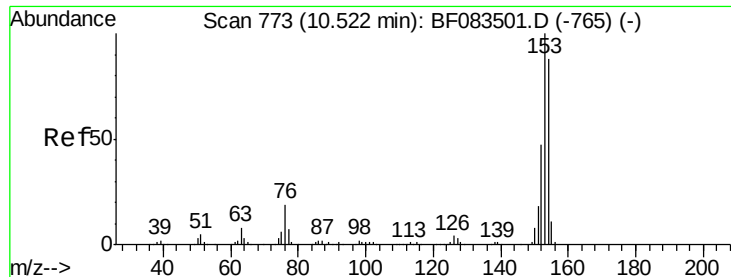
Acq: 7 Dec 2015 5:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
163	100		343613		
194	3.5	2.8	4.2		
164	10.6	8.6	13.0		



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: 2.01 ng

RT: 10.48 min Scan# 769

Delta R.T. -0.05 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Instrument :

BNA_F

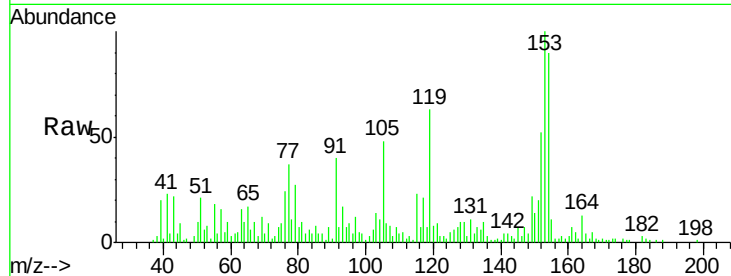
ClientSampleId :

K204-0-2

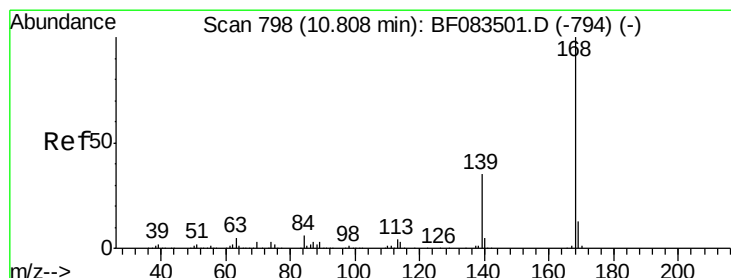
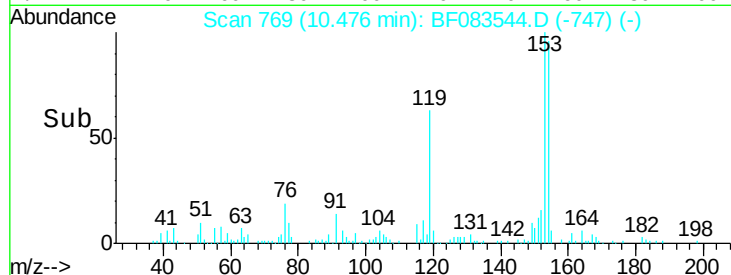
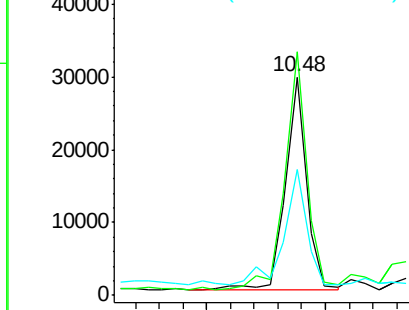
Tot Ion:	154	Resp:	35811
Ion Ratio	Lower	Upper	
154	100		
153	111.5	91.4	137.0
152	57.5	43.4	65.2

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 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.69 ng m

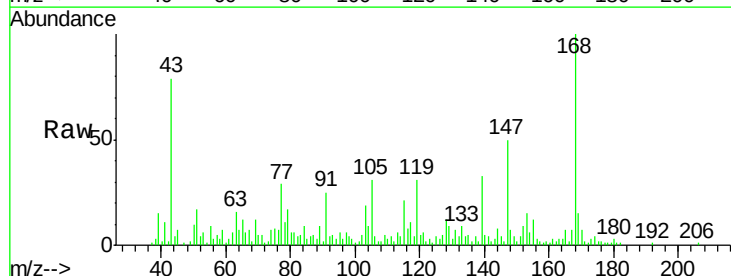
RT: 10.76 min Scan# 794

Delta R.T. -0.05 min

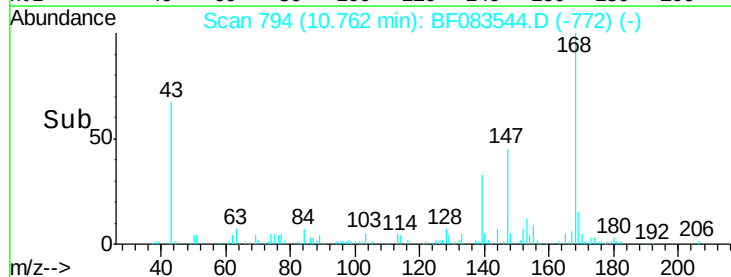
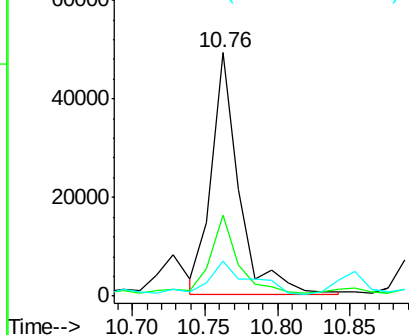
Lab File: BF083544.D

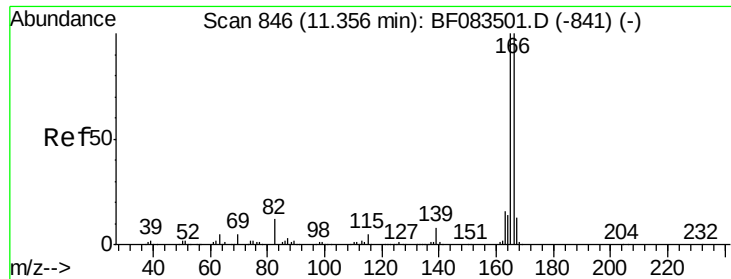
Acq: 7 Dec 2015 5:49

Tgt Ion:	168	Resp:	66440
Ion Ratio	Lower	Upper	
168	100		
139	33.3	28.0	42.0
169	14.5	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





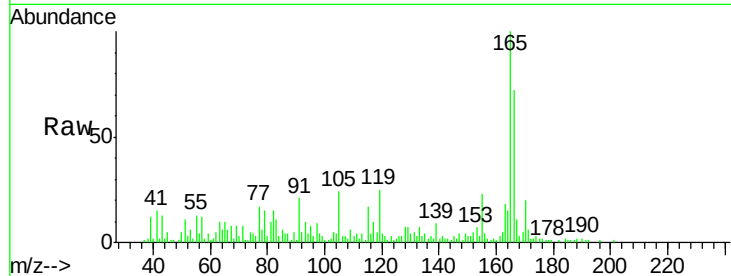
#57
Fluorene
Concen: 4.19 ng/mL
RT: 11.32 min Scan# 843
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleID :
K204-0-2

Tot Ion	Ratio	Resp	Lower	Upper
166	100	90099		
165	138.3	80.0	120.0	#
167	15.6	10.6	16.0	

Manual Integrations
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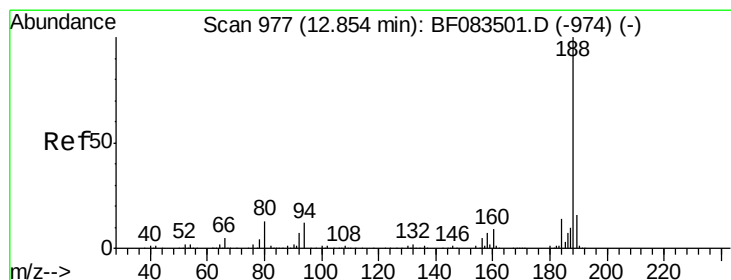
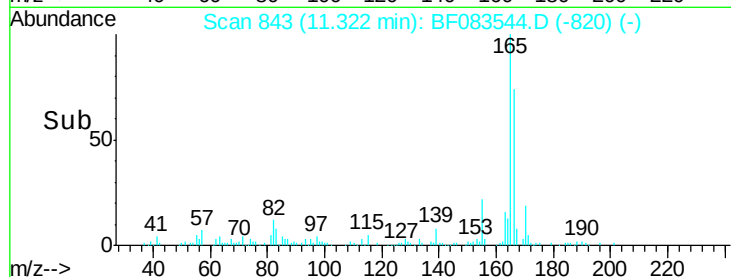
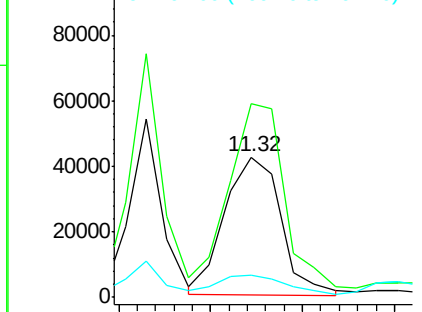


Abundance

Ion 166.00 (165.70 to 166.70): E

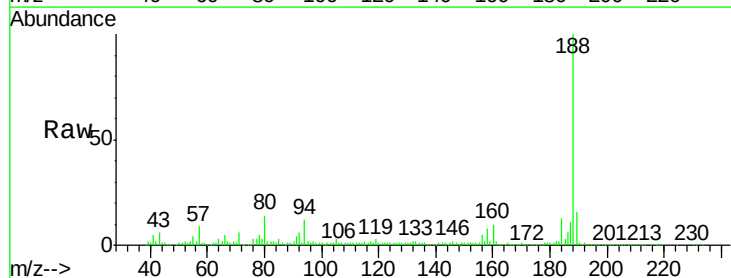
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.82 min Scan# 974
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	449037		
94	11.8	9.4	14.2	
80	13.5	10.6	16.0	

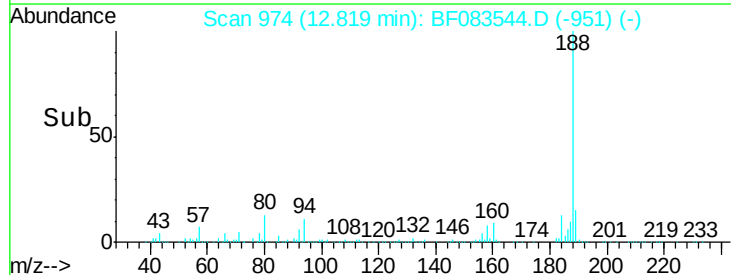
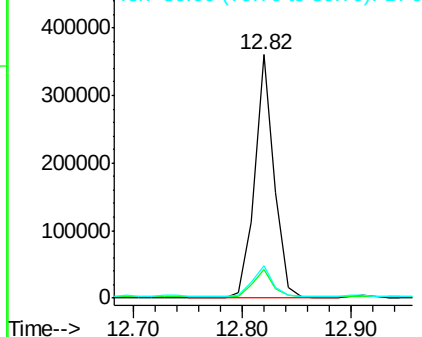


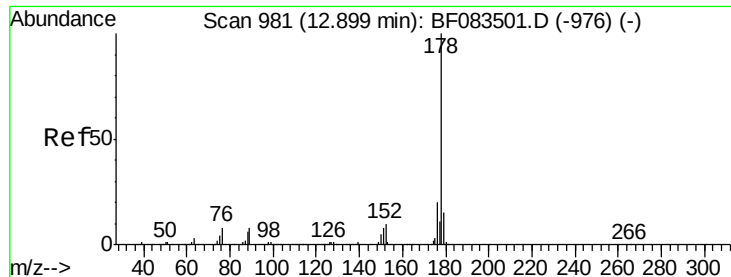
Abundance

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





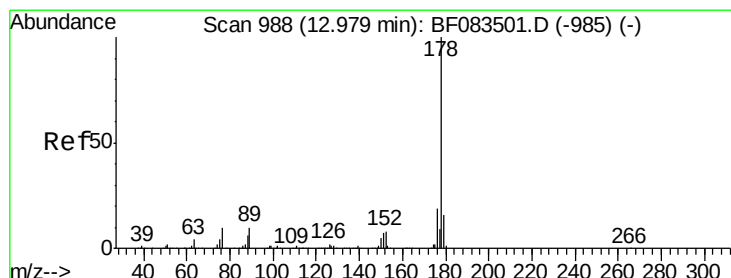
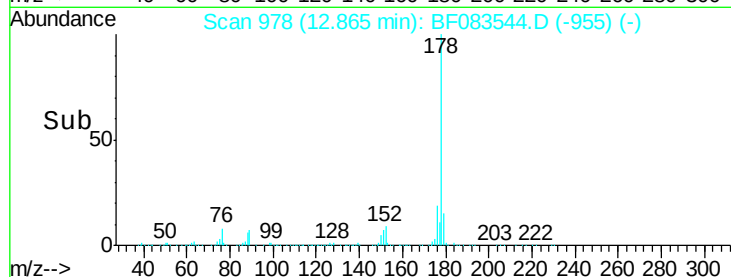
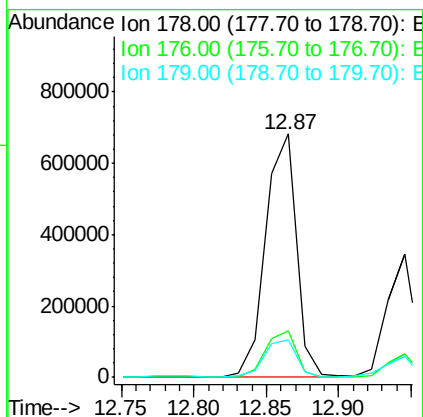
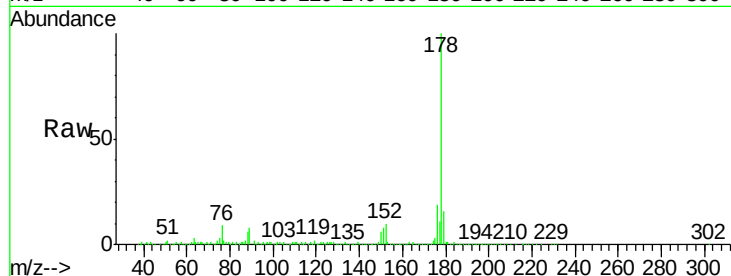
#70
Phenanthrene
Concen: 38.35 ng
RT: 12.87 min Scan# 978
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleId :
K204-0-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.6	12.2	18.4

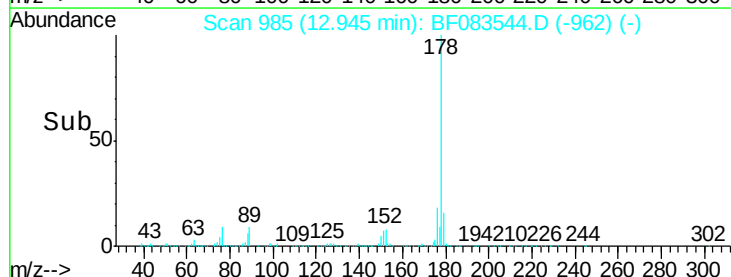
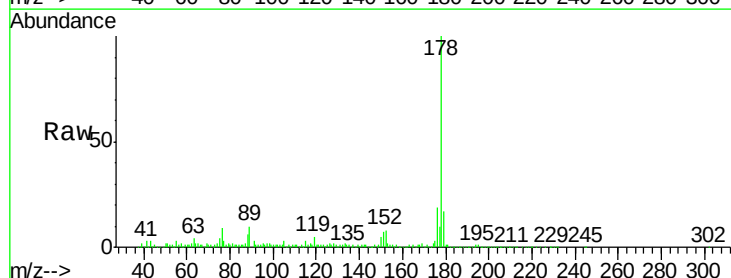
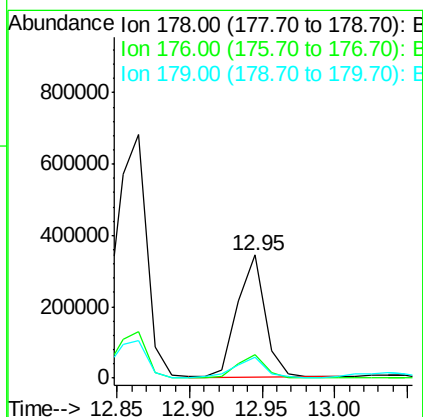
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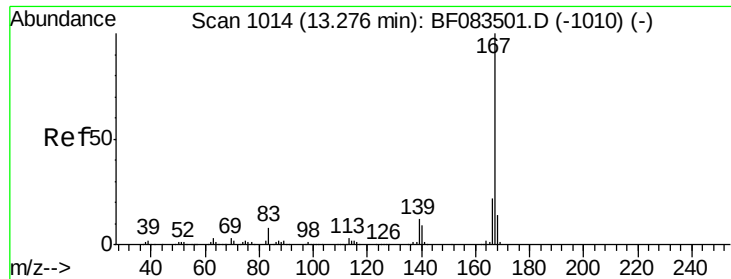
Mmdadoda
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#71
Anthracene
Concen: 16.96 ng
RT: 12.95 min Scan# 985
Delta R.T. -0.03 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.2	22.8
179	16.6	12.6	18.8





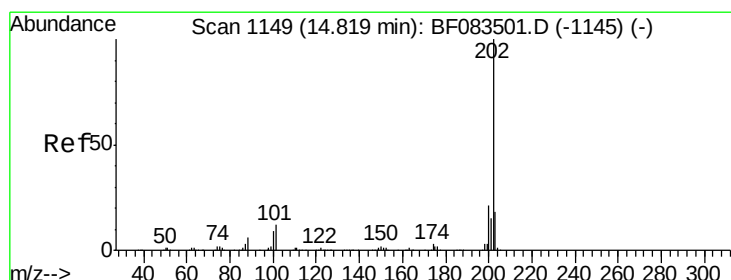
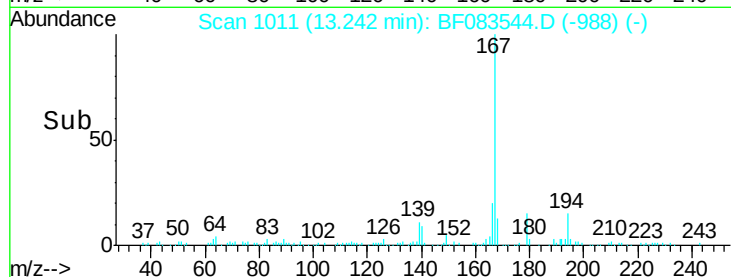
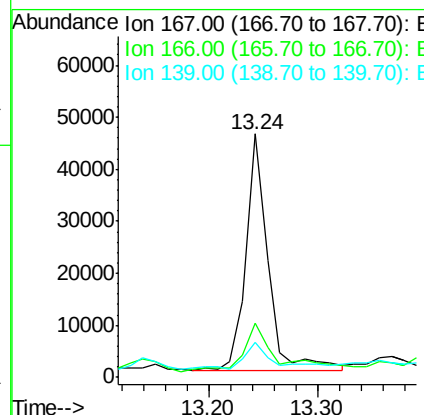
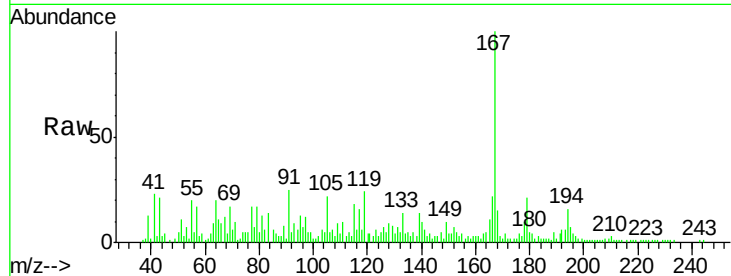
#72
 Carbazole
 Concen: 2.80 ng
 RT: 13.24 min Scan# 1011
 Delta R.T. -0.03 min
 Lab File: BF083544.D
 Acq: 7 Dec 2015 5:49

Instrument :
 BNA_F
 ClientSampleId :
 K204-0-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100		64050		
166	22.4	17.2	25.8		
139	14.5	9.3	13.9		

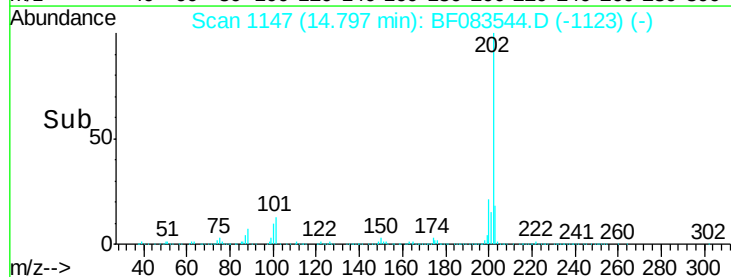
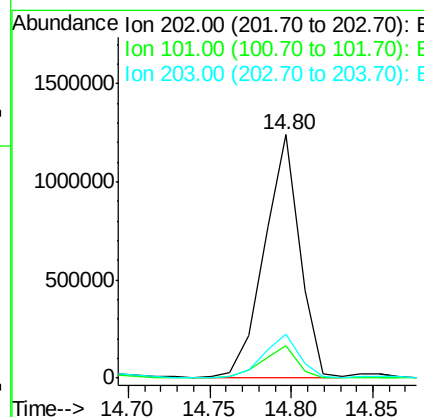
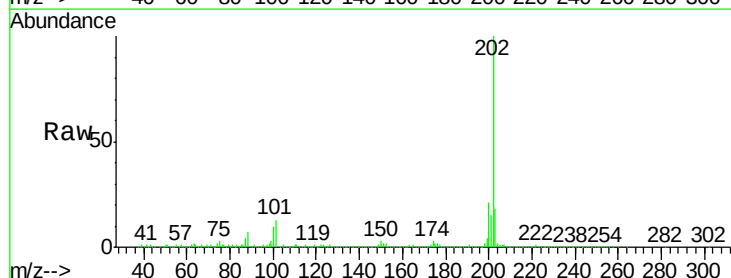
Manual Integrations
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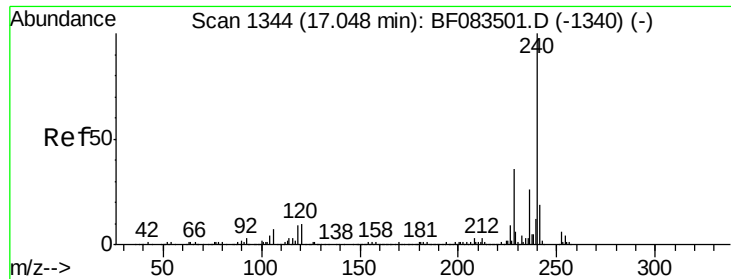
Mmdadoda
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#74
 Fluoranthene
 Concen: 71.63 ng
 RT: 14.80 min Scan# 1147
 Delta R.T. -0.02 min
 Lab File: BF083544.D
 Acq: 7 Dec 2015 5:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		1855414		
101	13.4	0.0	31.5		
203	18.1	0.0	37.6		





#75

Chrysene-d12

Concen: 20.00 ng

RT: 17.04 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Instrument :

BNA_F

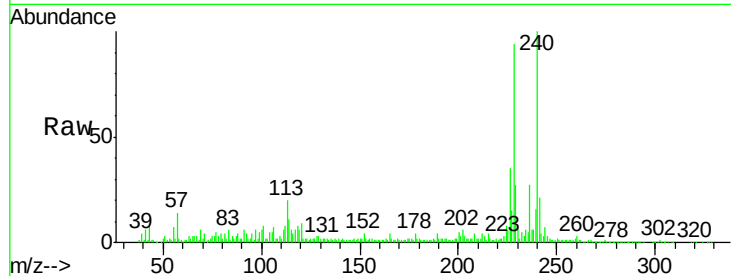
ClientSampled :

K204-0-2

Tot Ion:	240	Resp:	313954
Ion Ratio	Lower	Upper	
240	100		
120	9.5	8.1	12.1
236	27.1	20.8	31.2

Manual Integrations
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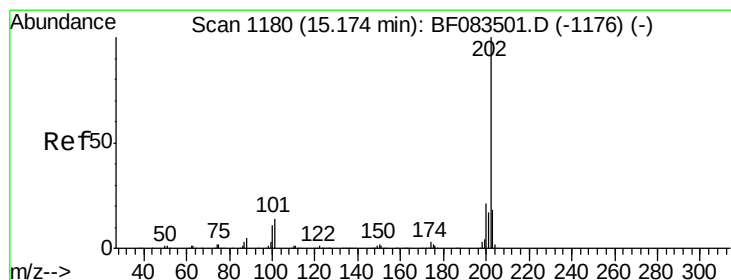
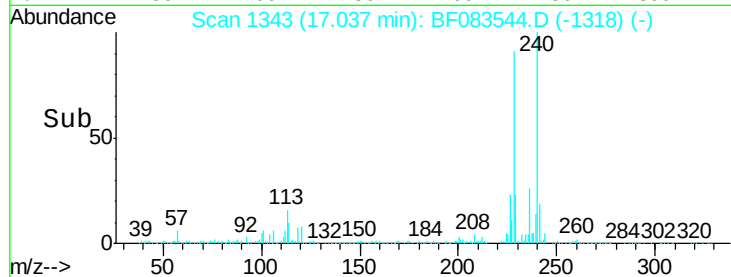
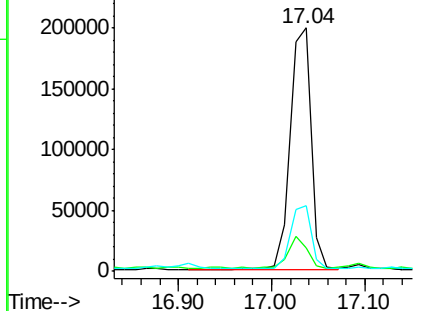
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 98.67 ng

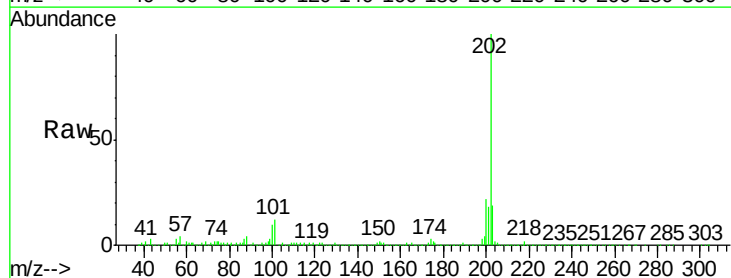
RT: 15.16 min Scan# 1179

Delta R.T. -0.01 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

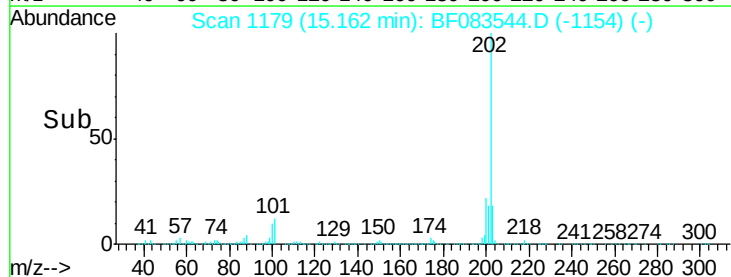
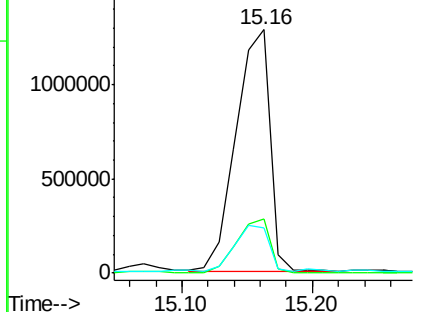
Tgt Ion:	202	Resp:	2317407
Ion Ratio	Lower	Upper	
202	100		
200	22.0	16.7	25.1
203	18.6	14.3	21.5

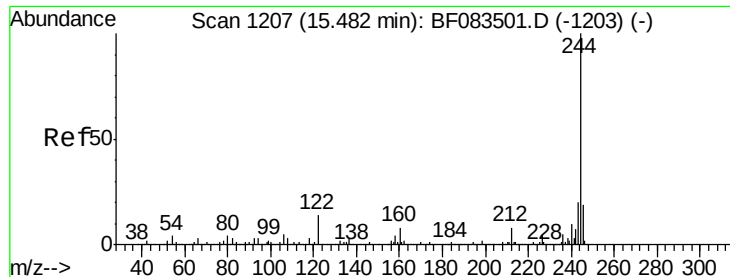


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 62.68 ng

RT: 15.46 min Scan# 1205

Delta R.T. -0.02 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Instrument :

BNA_F

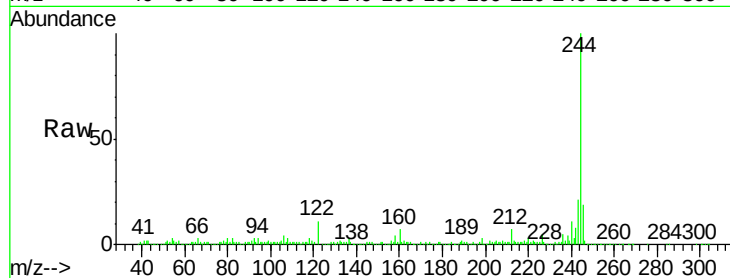
ClientSampleId :

K204-0-2

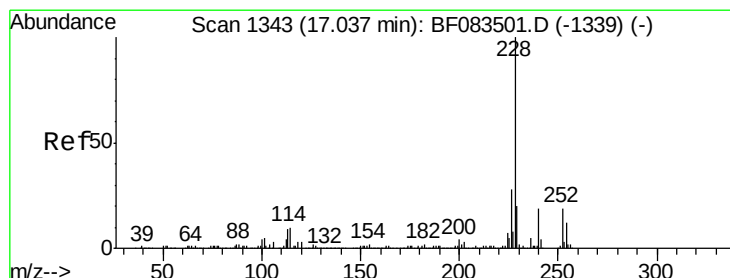
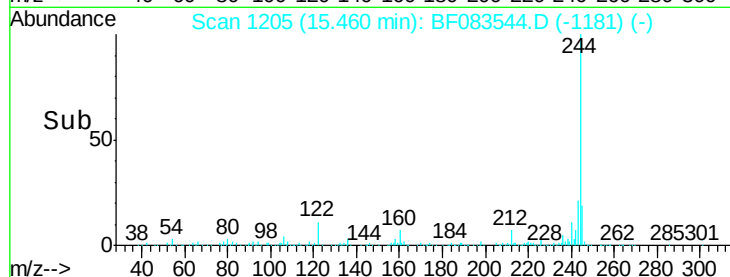
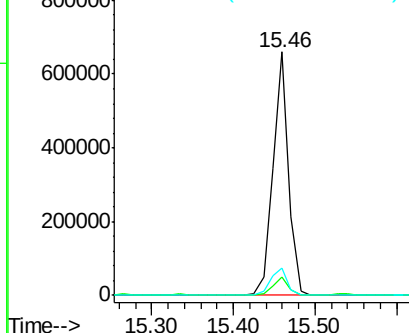
Tot Ion:	244	Resp:	884316
Ion Ratio	Lower	Upper	
244	100		
212	7.5	6.1	9.1
122	11.4	11.0	16.6

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 71.34 ng

RT: 17.03 min Scan# 1342

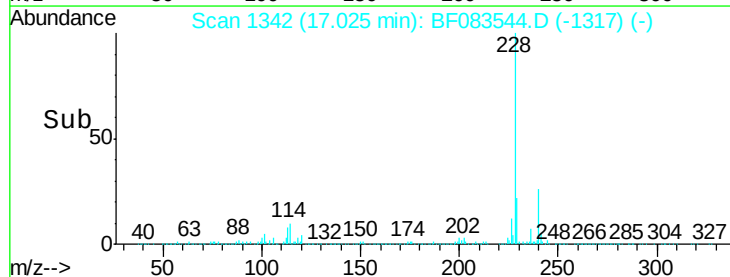
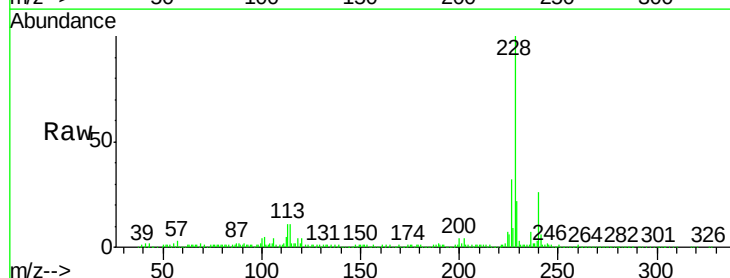
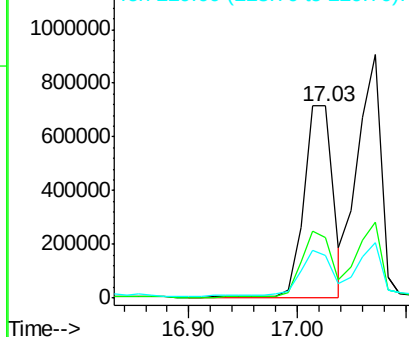
Delta R.T. -0.01 min

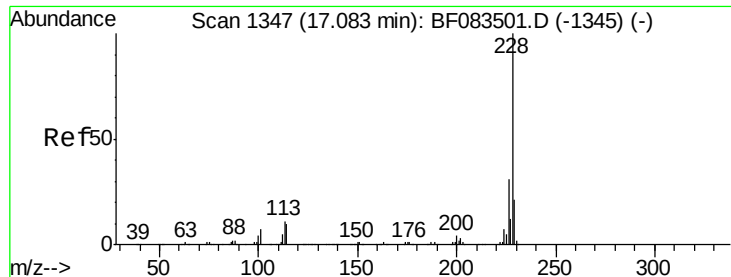
Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Tgt Ion:	228	Resp:	1310406
Ion Ratio	Lower	Upper	
228	100		
226	31.5	22.3	33.5
229	22.4	15.7	23.5

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





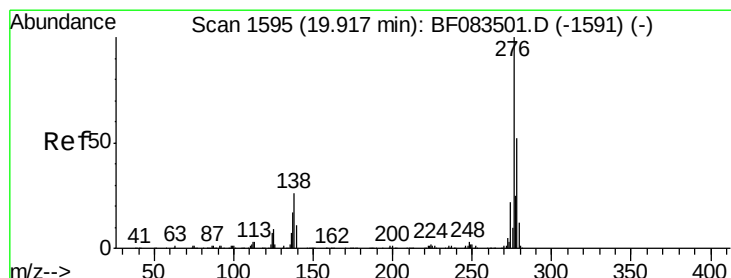
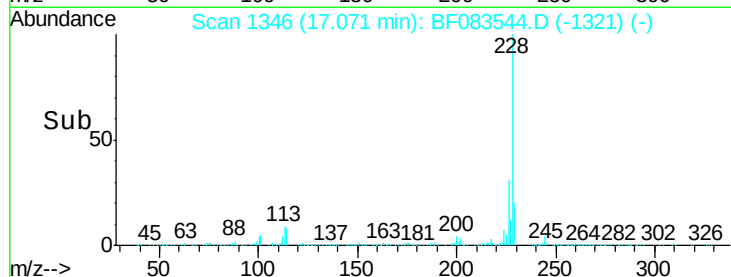
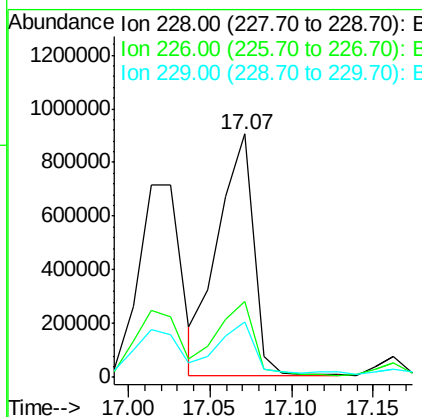
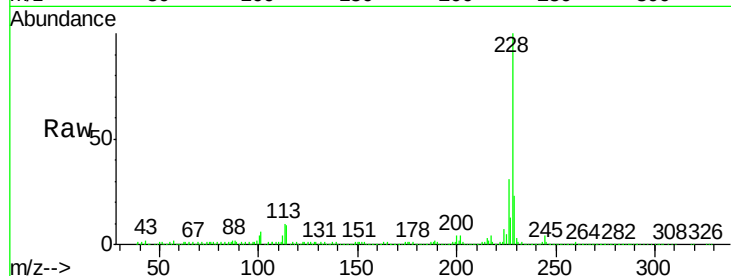
#82
Chrysene
Concen: 74.44 ng
RT: 17.07 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleId :
K204-0-2

Tot Ion:228 Resp: 1362152
Ion Ratio Lower Upper
228 100
226 31.2 24.7 37.1
229 22.6 16.3 24.5

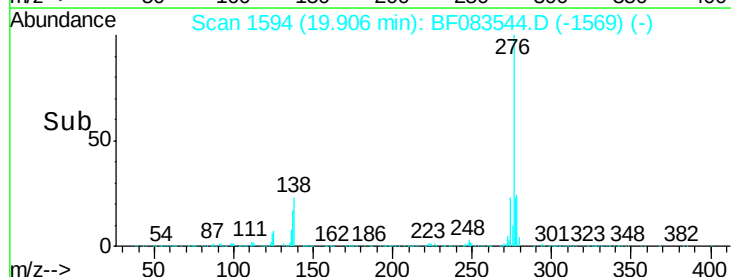
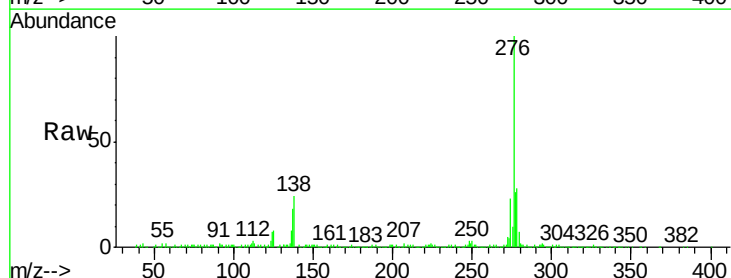
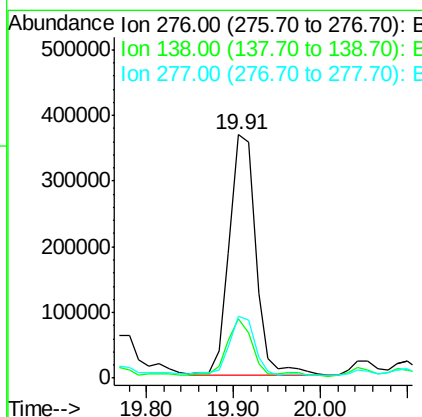
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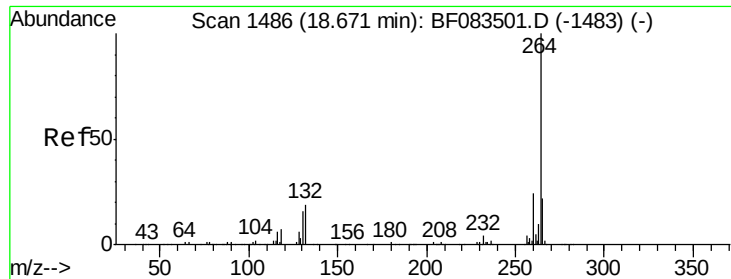
Mmdadoda
12/7/2015 6:33:32 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 49.53 ng
RT: 19.91 min Scan# 1594
Delta R.T. -0.01 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion:276 Resp: 776875
Ion Ratio Lower Upper
276 100
138 22.1 0.0 0.0#
277 24.6 0.0 0.0#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 18.66 min Scan# 1485

Delta R.T. -0.01 min

Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Instrument :

BNA_F

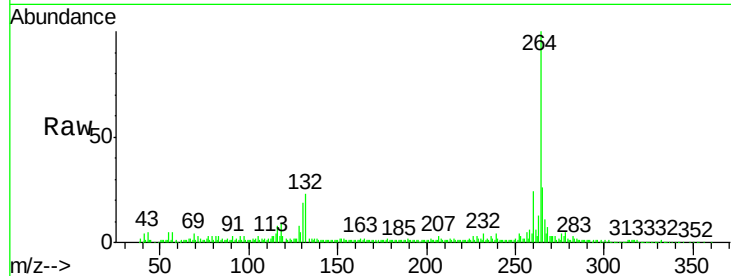
ClientSampleId :

K204-0-2

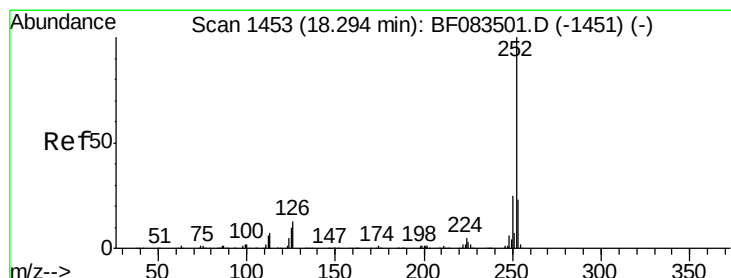
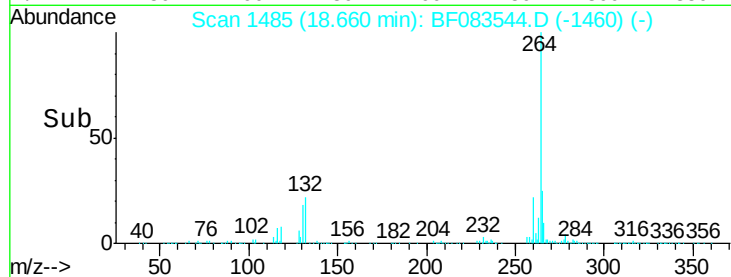
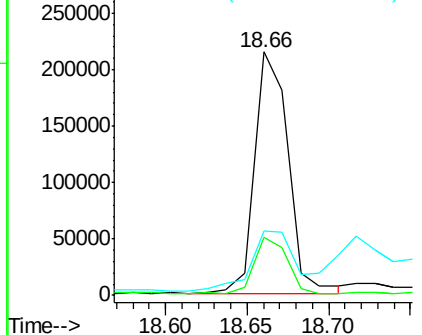
Tot Ion:	264	Resp:	307777
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.4	29.0
265	26.3	17.8	26.6

Manual Integrations
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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: 92.15 ng m

RT: 18.29 min Scan# 1453

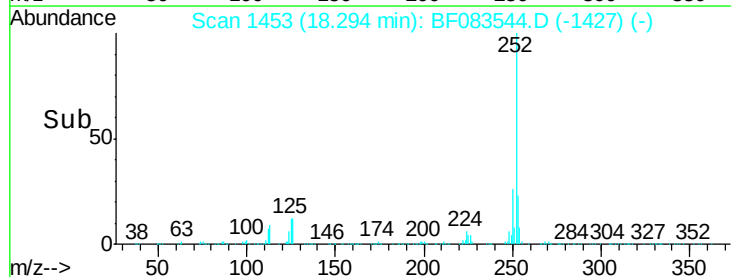
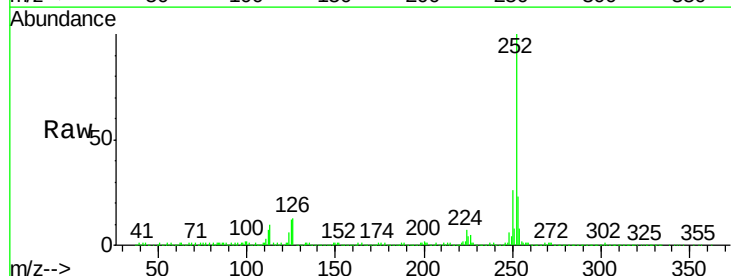
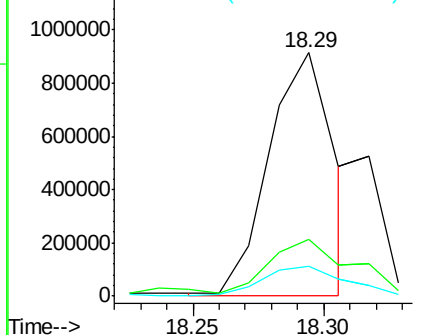
Delta R.T. 0.00 min

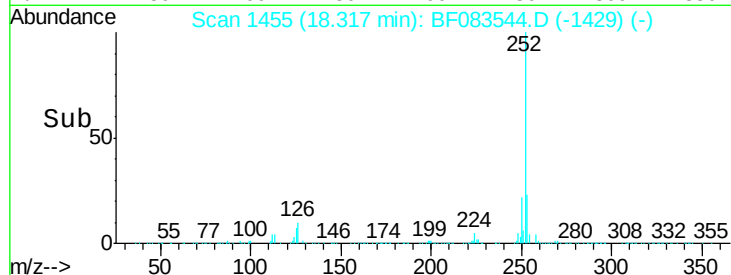
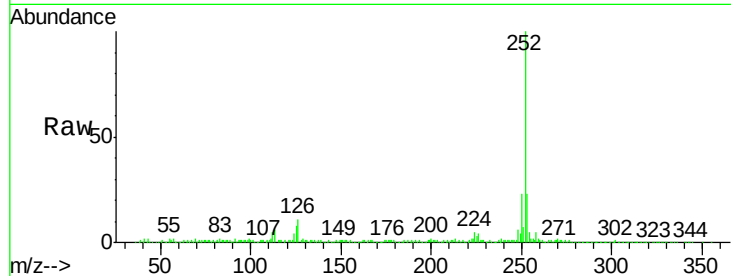
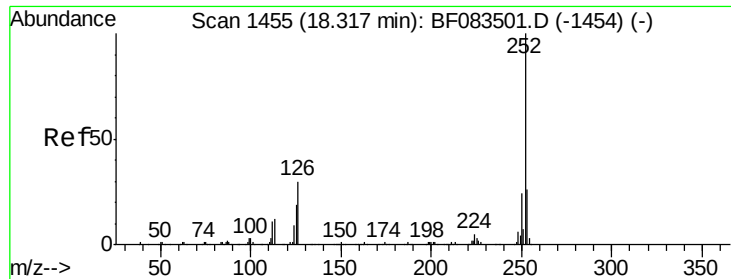
Lab File: BF083544.D

Acq: 7 Dec 2015 5:49

Tgt Ion:	252	Resp:	1592795
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.2	27.4
125	12.0	8.2	12.4

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





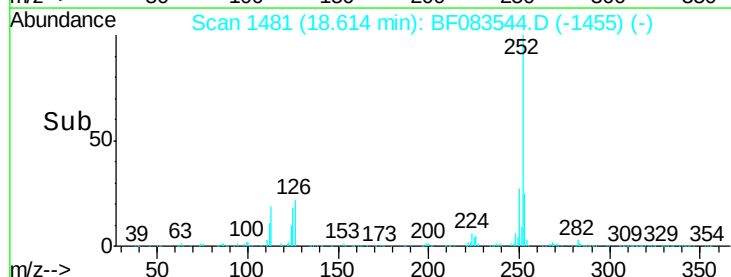
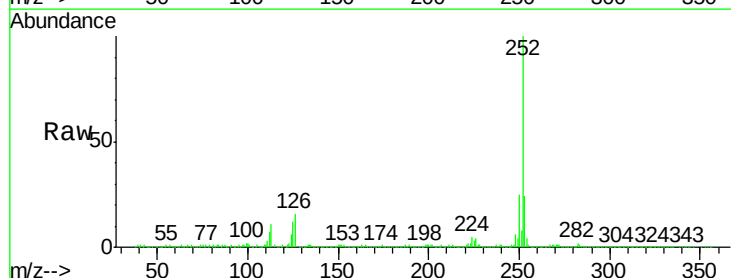
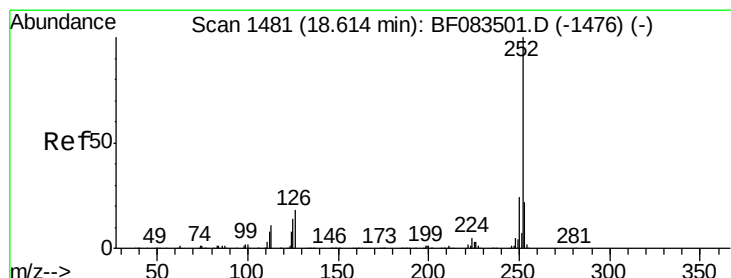
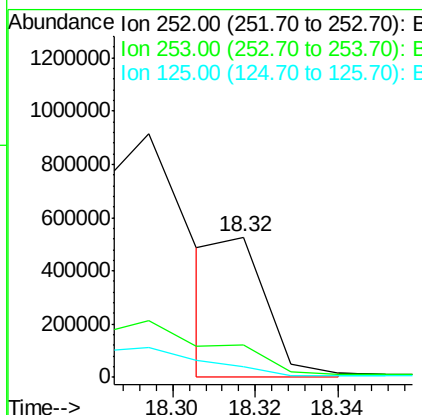
#88
Benzo(k)fluoranthene
Concen: 22.94 ng m
RT: 18.32 min Scan# 1455
Delta R.T. 0.00 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleId :
K204-0-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.6	27.8
125	7.7	11.5	17.3

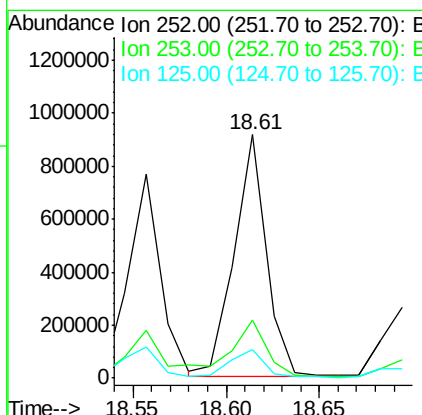
Manual Integrations
APPROVED

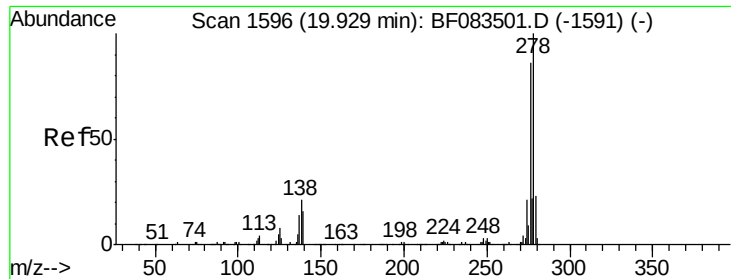
Mmdadoda
12/7/2015 6:33:32 PM



#89
Benzo(a)pyrene
Concen: 66.08 ng
RT: 18.61 min Scan# 1481
Delta R.T. 0.00 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	11.9	11.0	16.6





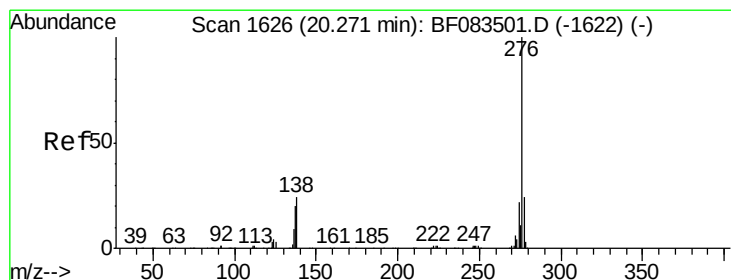
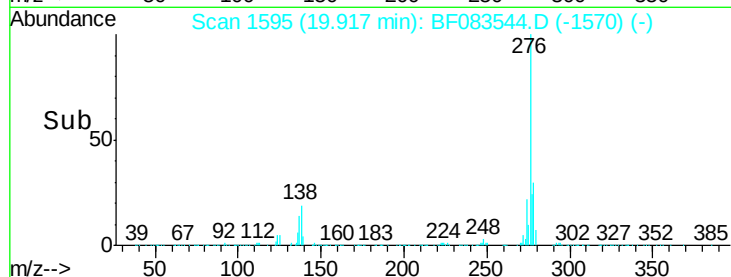
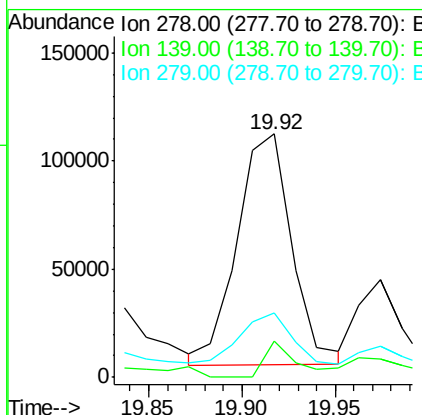
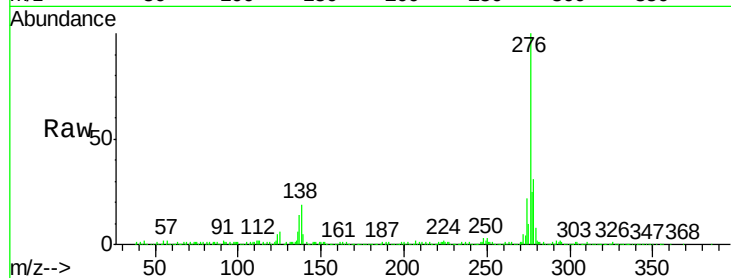
#90
Dibenzo(a,h)anthracene
Concen: 13.54 ng
RT: 19.92 min Scan# 1595
Delta R.T. -0.01 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Instrument :
BNA_F
ClientSampleId :
K204-0-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.8	12.8	19.2
279	26.3	18.6	28.0

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:32 PM



#91
Benzo(g,h,i)perylene
Concen: 47.79 ng
RT: 20.27 min Scan# 1626
Delta R.T. 0.00 min
Lab File: BF083544.D
Acq: 7 Dec 2015 5:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.2	28.8
138	22.5	19.5	29.3

