

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083548.D
 Acq On : 7 Dec 2015 7:48
 Operator : UM/IZ
 Sample : G4594-05
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K204-6-8

Manual Integrations
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 12/7/2015 6:33:37 PM

Quant Time: Dec 07 10:24:48 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	143791	20.00	ng	-0.03
21) Naphthalene-d8	7.64	136	506130	20.00	ng	-0.03
38) Acenaphthene-d10	10.45	164	220761	20.00	ng	-0.01
63) Phenanthrene-d10	12.85	188	294199	20.00	ng	0.00
75) Chrysene-d12	17.06	240	259897	20.00	ng	0.01
86) Perylene-d12	18.69	264	213537	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.02	112	1493822	157.61	ng	-0.01
7) Phenol-d6	5.31	99	1889739	144.71	ng	-0.01
23) Nitrobenzene-d5	6.57	82	1270923	117.38	ng	-0.03
41) 2,4,6-Tribromophenol	11.76	330	276418	135.74	ng	0.00
44) 2-Fluorobiphenyl	9.40	172	1533952	94.25	ng	-0.02
78) Terphenyl-d14	15.49	244	1105193	94.63	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Acetophenone	6.32	105	200732	13.77	ng	# 59
31) Naphthalene	7.68	128	171617	6.37	ng	# 83
48) Acenaphthylene	10.22	152	135699	5.61	ng	# 58
49) Dimethylphthalate	10.09	163	443438	25.52	ng	# 96
51) Acenaphthene	10.50	154	192059	13.79	ng	# 94
54) Dibenzofuran	10.79	168	256548	13.29	ng	# 87
57) Fluorene	11.35	166	389286	23.19	ng	# 95
70) Phenanthrene	12.89	178	231292	13.51	ng	# 87
71) Anthracene	12.98	178	368988	21.13	ng	# 85
74) Fluoranthene	14.84	202	1167107	68.77	ng	96
77) Pyrene	15.20	202	1435197	73.82	ng	96
80) Benzo(a)anthracene	17.05	228	598071	39.33	ng	# 91
82) Chrysene	17.09	228	578959	38.22	ng	# 92
85) Indeno(1,2,3-cd)pyrene	19.95	276	103684	7.98	ng	# 100
87) Benzo(b)fluoranthene	18.32	252	326156m	27.20	ng	
88) Benzo(k)fluoranthene	18.33	252	107682m	8.77	ng	
89) Benzo(a)pyrene	18.64	252	147003	12.60	ng	# 53
90) Dibenz(a,h)anthracene	19.95	278	32685	2.91	ng	# 18
91) Benzo(a,h,i)perylene	20.31	276	106782	9.44	ng	# 88

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

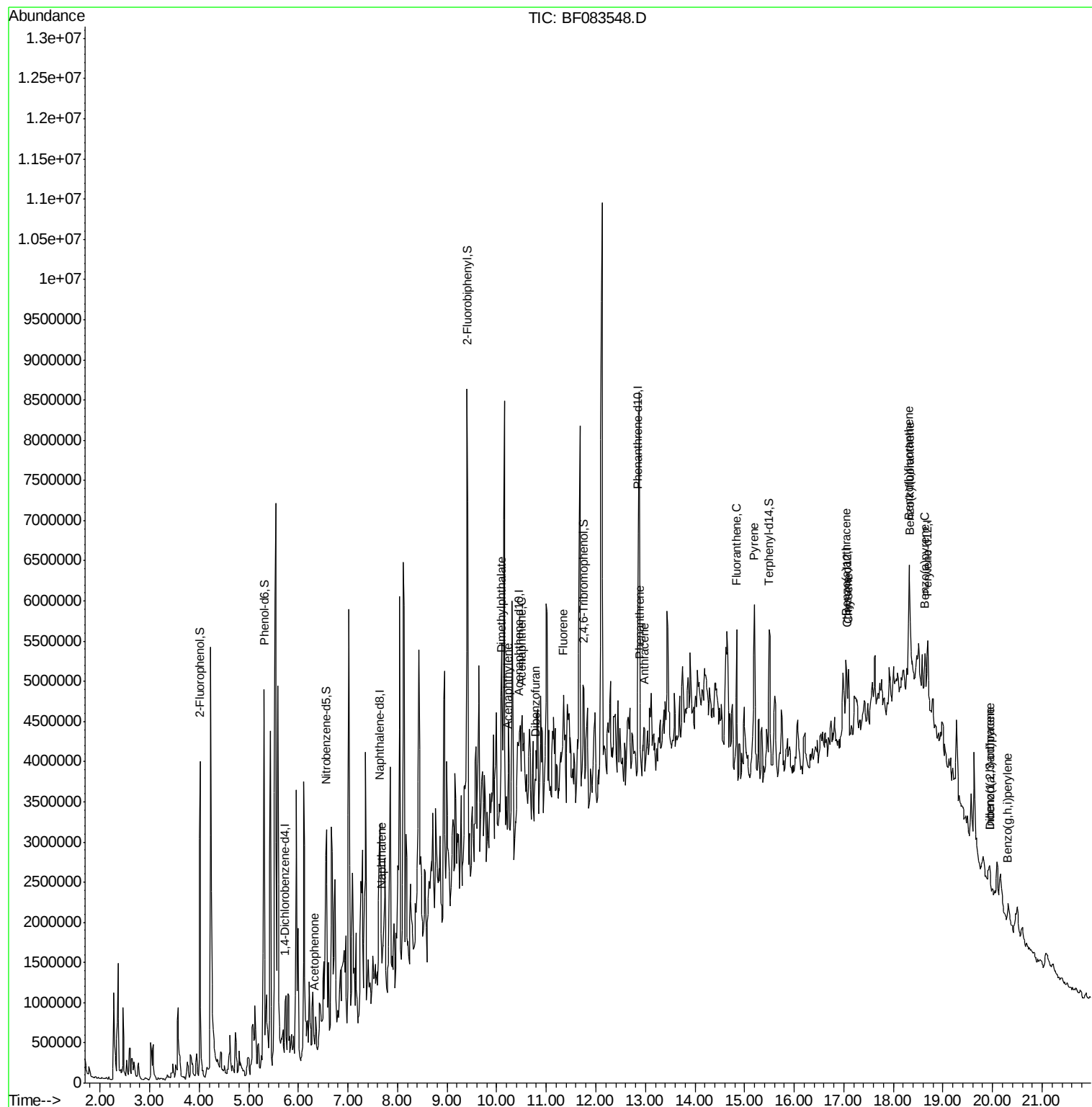
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083548.D
Acq On : 7 Dec 2015 7:48
Operator : UM/IZ
Sample : G4594-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

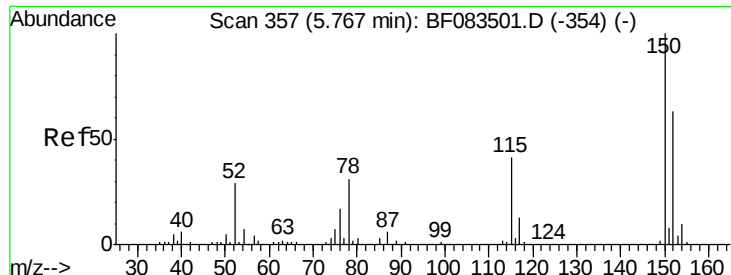
Instrument :
BNA_F
ClientSampled :
K204-6-8

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Quant Time: Dec 07 10:24:48 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

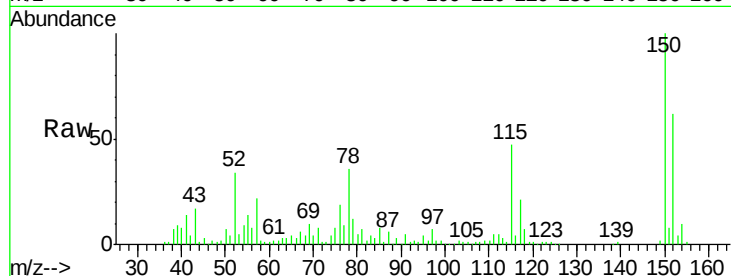
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.73 min Scan# 354
Delta R.T. -0.03 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Instrument :
BNA_F
ClientSampleId :
K204-6-8

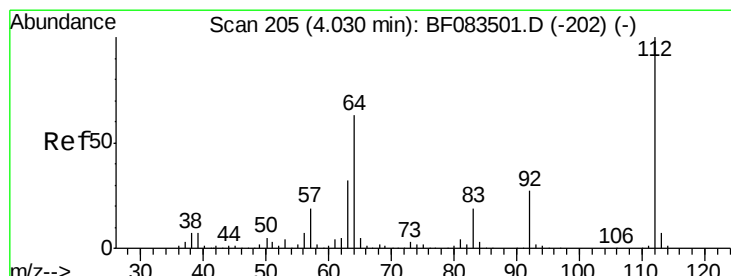
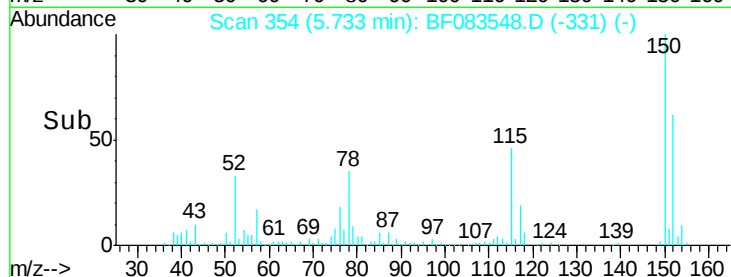
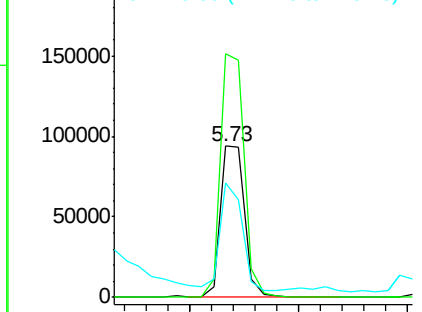
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.9	126.5	189.7
115	75.3	52.3	78.5

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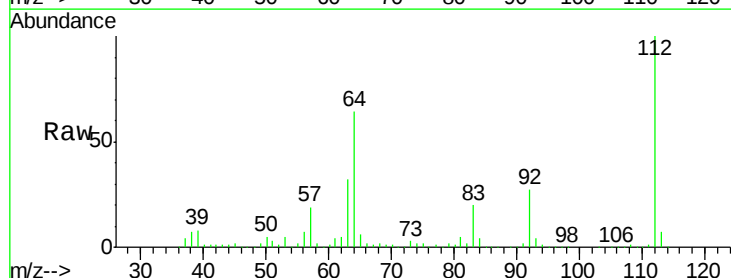
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



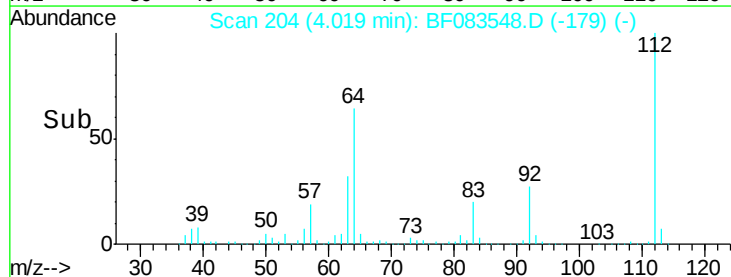
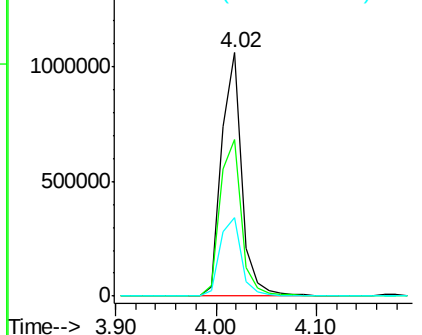
#5

2-Fluorophenol
Concen: 157.61 ng
RT: 4.02 min Scan# 204
Delta R.T. -0.01 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	50.5	75.7
63	32.2	25.8	38.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 144.71 ng

RT: 5.31 min Scan# 317

Delta R.T. -0.01 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

ClientSampleId :

K204-6-8

Tot Ion: 99 Resp: 1889739

Ion Ratio Lower Upper

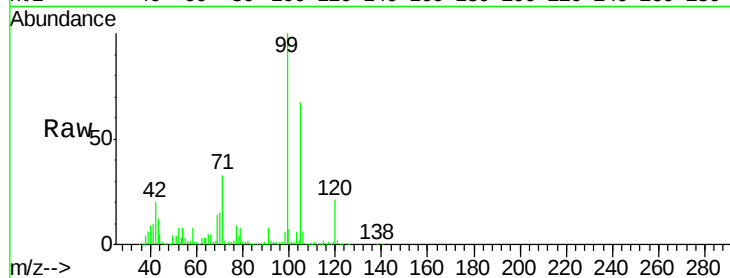
99 100

42 20.4 17.3 25.9

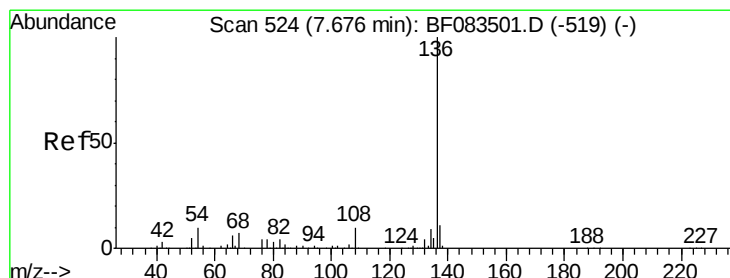
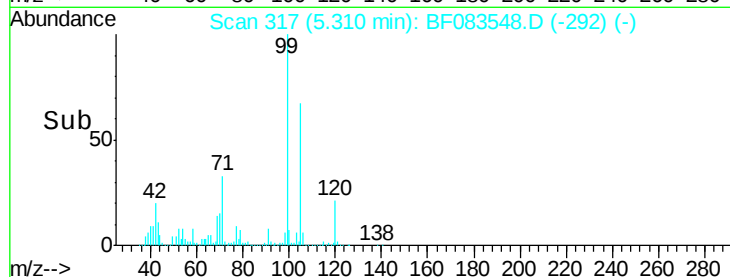
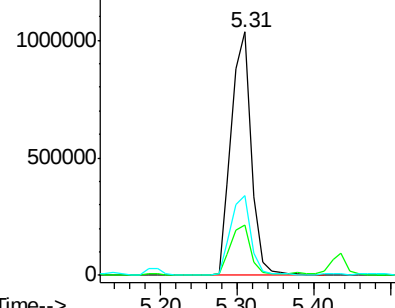
71 32.9 26.6 40.0

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.64 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion: 136 Resp: 506130

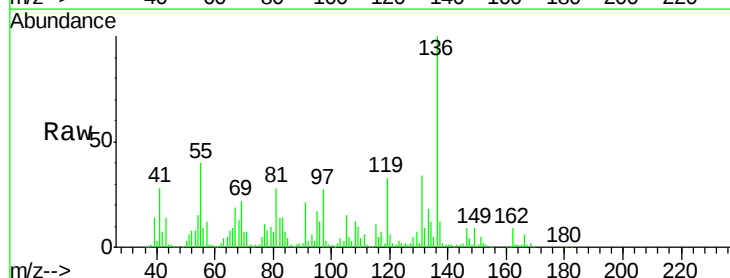
Ion Ratio Lower Upper

136 100

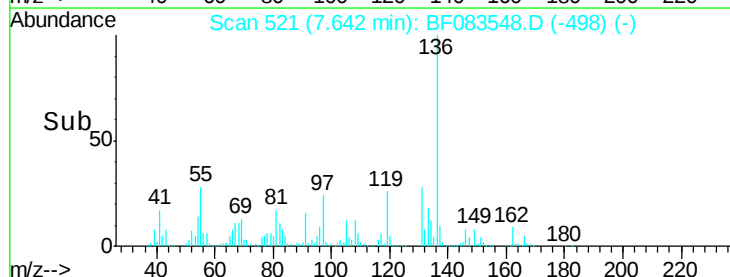
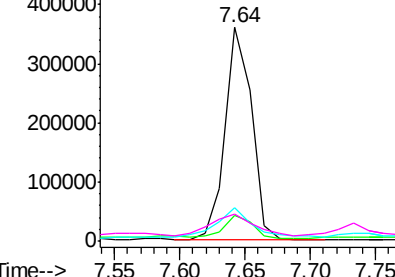
137 12.3 8.7 13.1

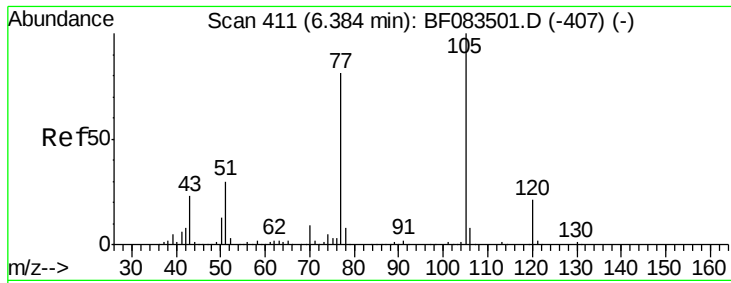
54 15.4 7.8 11.6#

68 12.9 5.7 8.5#



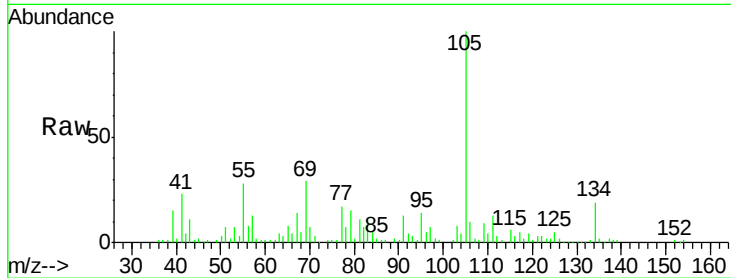
Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





#22
Acetophenone
Concen: 13.77 ng
RT: 6.32 min Scan# 405
Delta R.T. -0.07 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

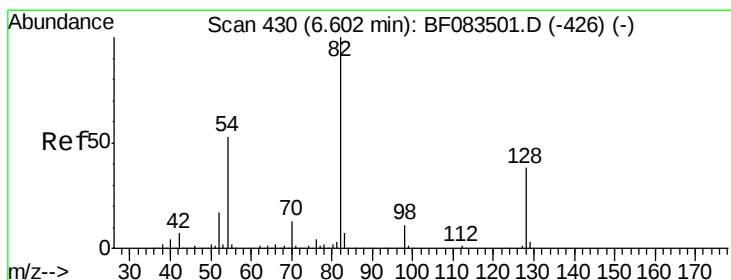
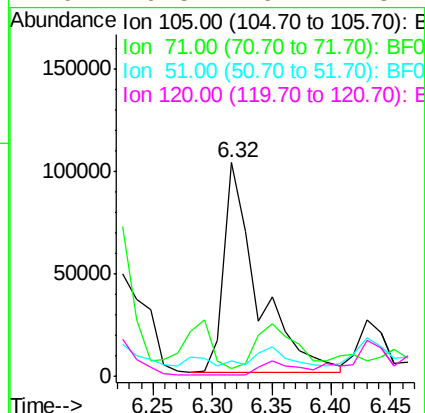
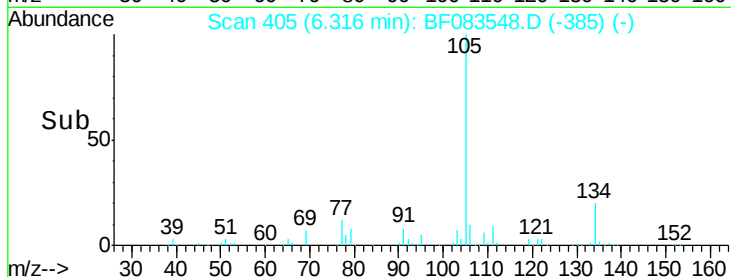
Instrument :
BNA_F
ClientSampleId :
K204-6-8



Tot Ion:	105	Resp:	200732
Ion Ratio	Lower	Upper	
105	100		
71	3.4	1.3	1.9#
51	7.3	23.8	35.8#
120	0.5	16.7	25.1#

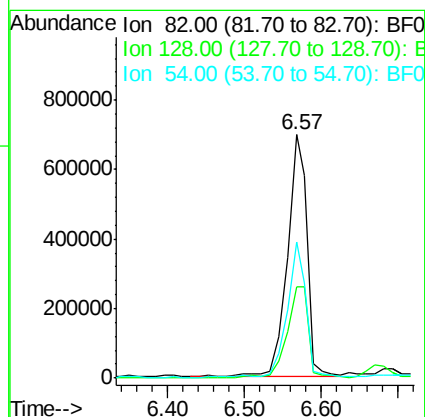
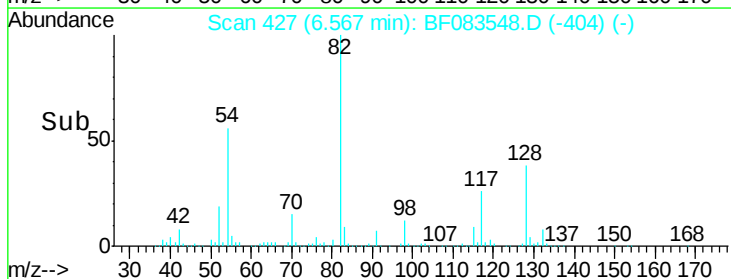
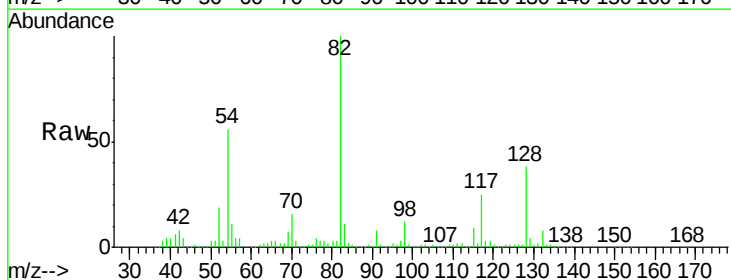
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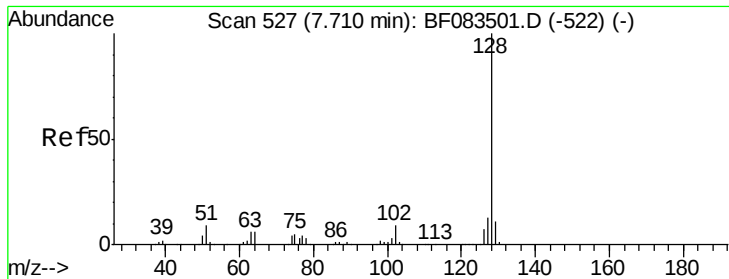
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#23
Nitrobenzene-d5
Concen: 117.38 ng
RT: 6.57 min Scan# 427
Delta R.T. -0.03 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Tgt Ion:	82	Resp:	1270923
Ion Ratio	Lower	Upper	
82	100		
128	37.5	30.7	46.1
54	55.6	42.5	63.7





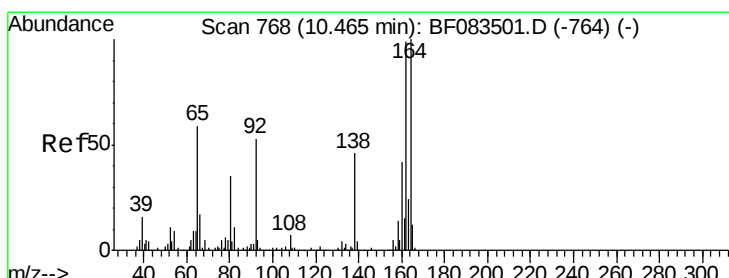
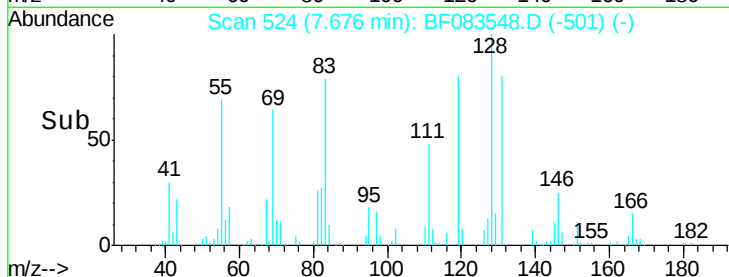
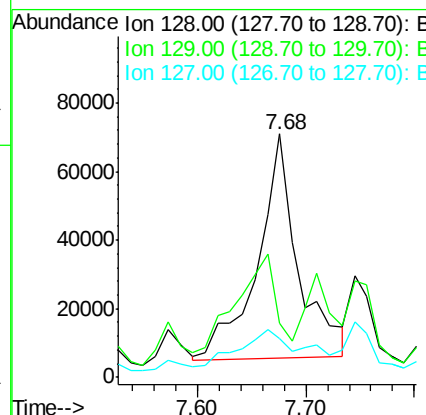
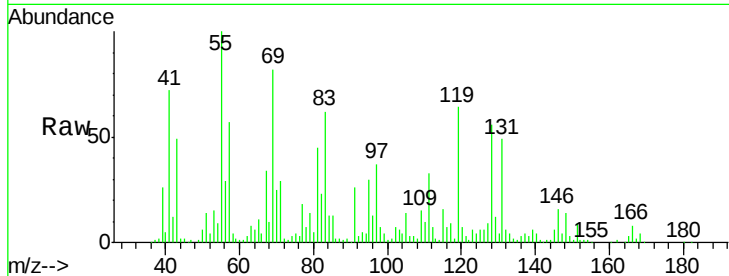
#31
Naphthalene
Concen: 6.37 ng
RT: 7.68 min Scan# 524
Delta R.T. -0.03 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Instrument :
BNA_F
ClientSampleId :
K204-6-8

Tot Ion	Ratio	Resp	Lower	Upper
128	100	171617		
129	22.3	8.6	13.0#	
127	16.0	10.6	16.0#	

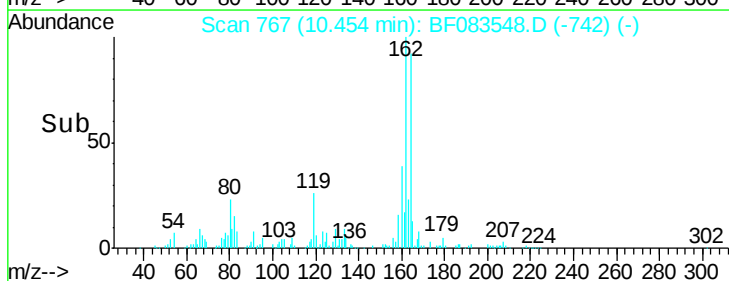
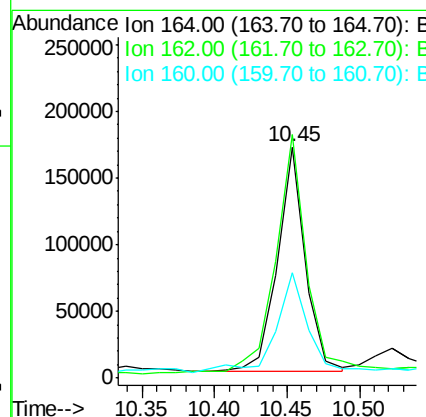
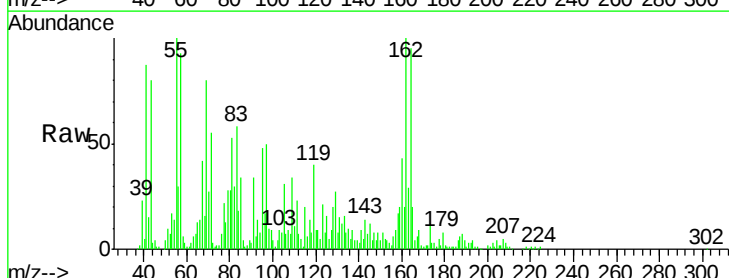
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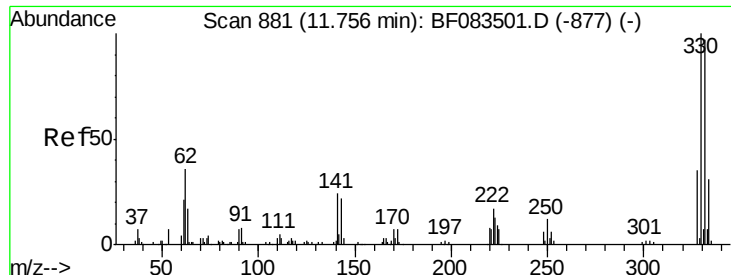
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.45 min Scan# 767
Delta R.T. -0.01 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	220761		
162	105.4	78.8	118.2	
160	45.5	33.4	50.2	





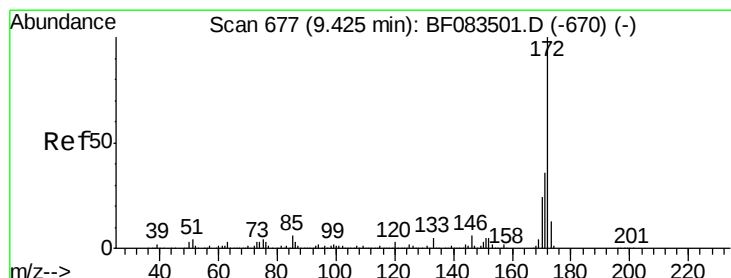
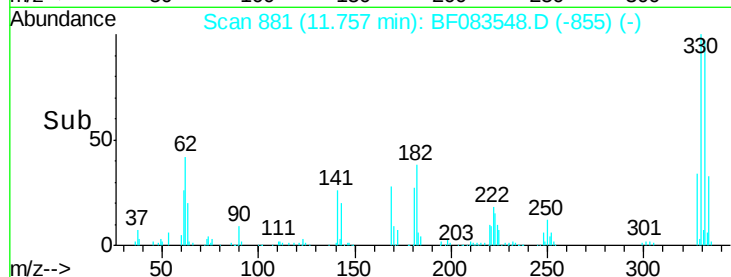
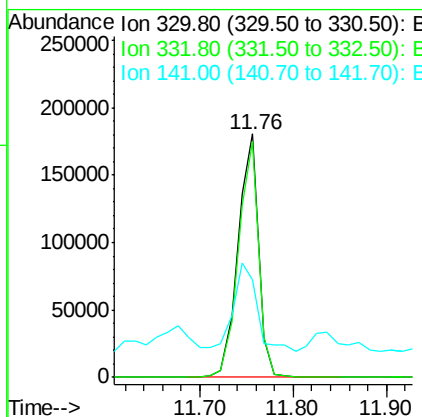
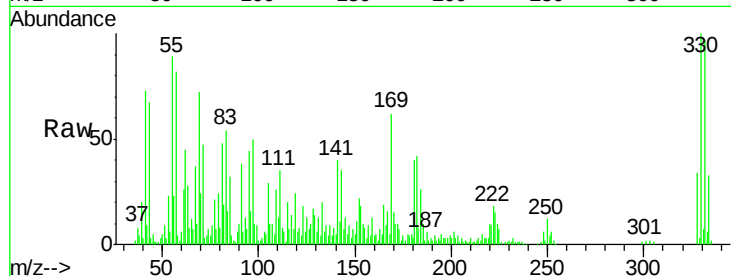
#41
 2,4,6-Tribromophenol
 Concen: 135.74 ng
 RT: 11.76 min Scan# 881
 Delta R.T. 0.00 min
 Lab File: BF083548.D
 Acq: 7 Dec 2015 7:48

Instrument :
 BNA_F
 ClientSampled :
 K204-6-8

Tot Ion	Ratio	Resp	Lower	Upper
330	100	276418		
332	95.7	0.0	0.0	0.0
141	42.6	0.0	0.0	0.0

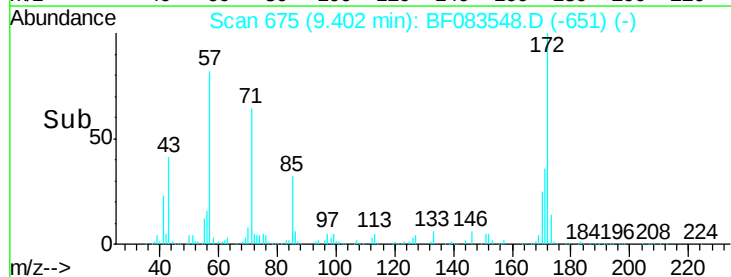
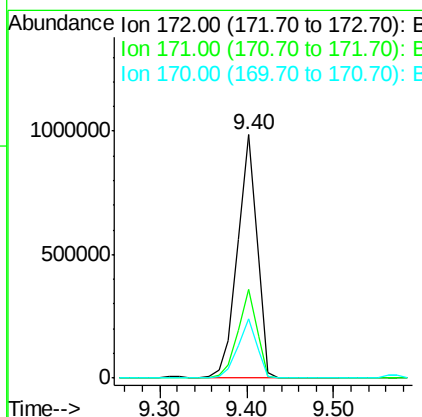
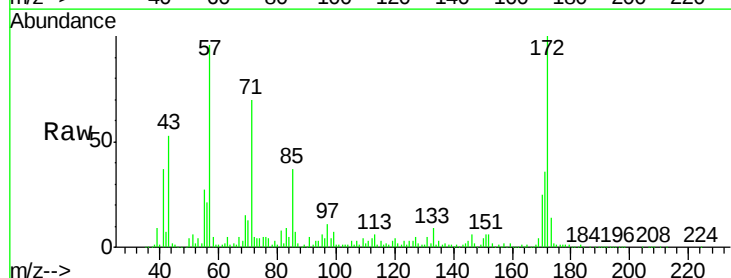
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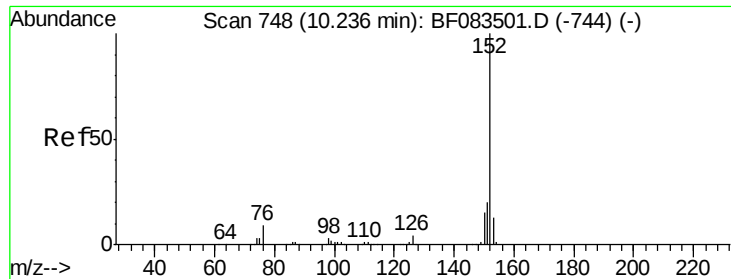
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#44
 2-Fluorobiphenyl
 Concen: 94.25 ng
 RT: 9.40 min Scan# 675
 Delta R.T. -0.02 min
 Lab File: BF083548.D
 Acq: 7 Dec 2015 7:48

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1533952		
171	36.3	28.6	42.8	
170	24.6	19.4	29.0	





#48

Acenaphthylene

Concen: 5.61 ng

RT: 10.22 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF083548.D

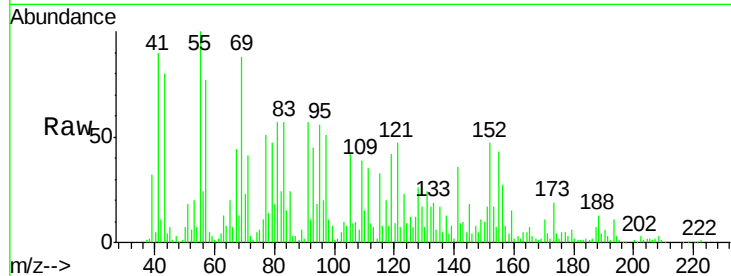
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Instrument :

BNA_F

ClientSampled :

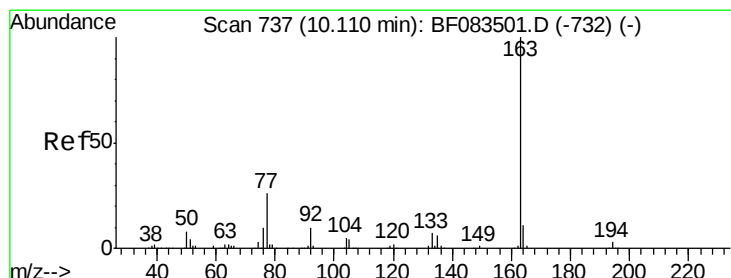
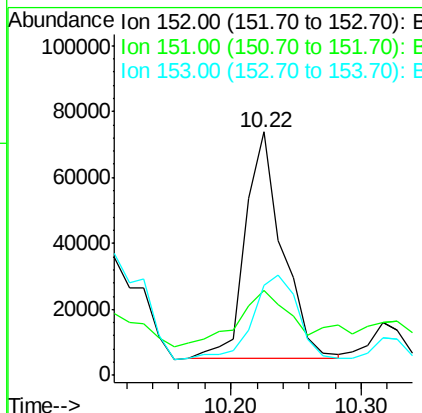
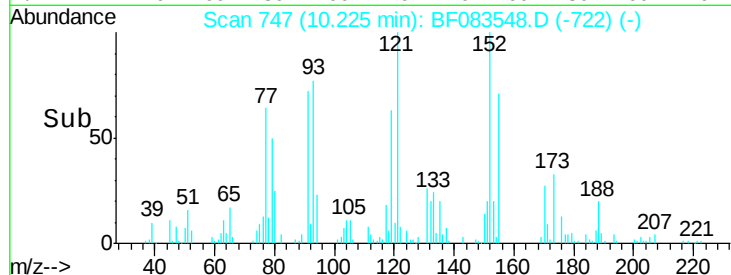
K204-6-8



Tot Ion:	152	Resp:	135699
Ion Ratio		Lower	Upper
152	100		
151	35.0	16.3	24.5#
153	37.0	10.8	16.2#

Manual Integrations
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#49

Dimethylphthalate

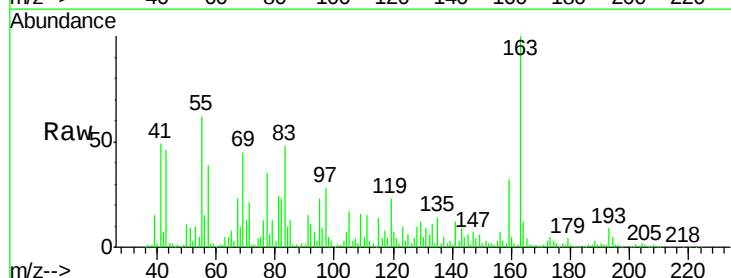
Concen: 25.52 ng

RT: 10.09 min Scan# 735

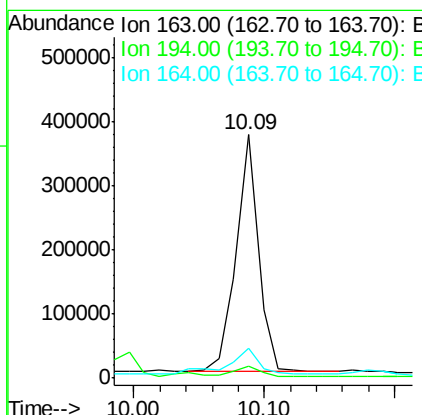
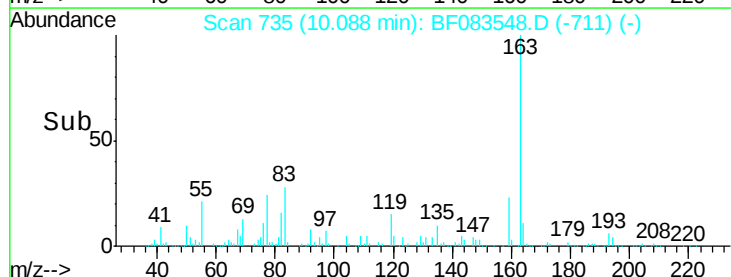
Delta R.T. -0.02 min

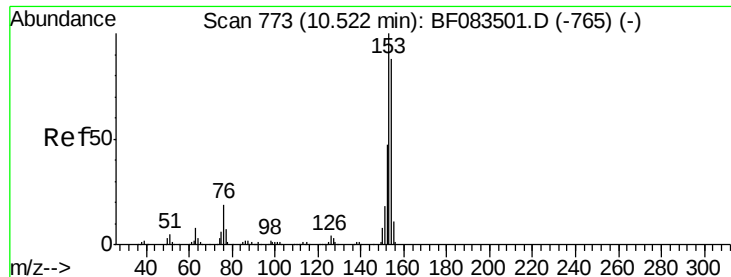
Lab File: BF083548.D

Acq: 7 Dec 2015 7:48



Tgt Ion:	163	Resp:	443438
Ion Ratio		Lower	Upper
163	100		
194	4.8	2.8	4.2#
164	12.1	8.6	13.0





#51

Acenaphthene

Concen: 13.79 ng

RT: 10.50 min Scan# 771

Delta R.T. -0.02 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

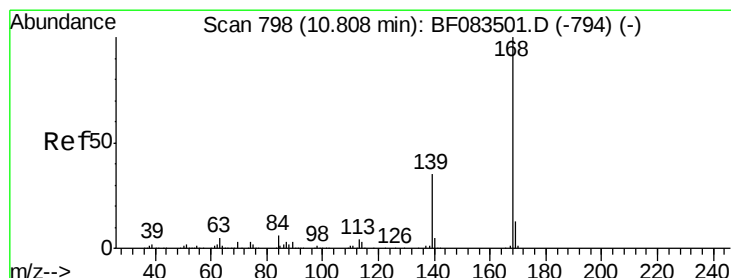
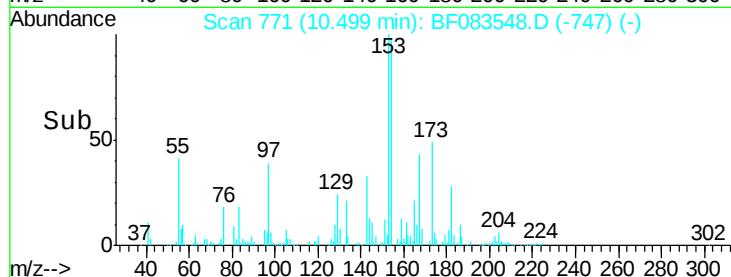
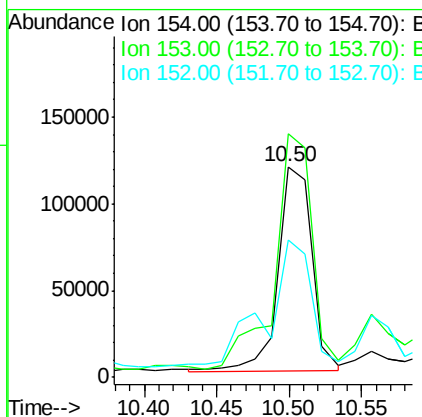
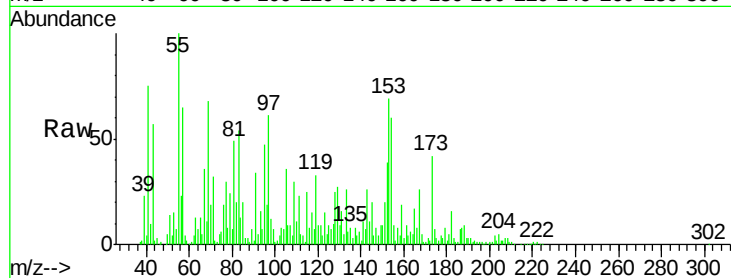
ClientSampleId :

K204-6-8

Tot Ion	Ratio	Resp	Lower	Upper
154	100	192059		
153	115.7	91.4	137.0	
152	65.4	43.4	65.2#	

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#54

Dibenzofuran

Concen: 13.29 ng

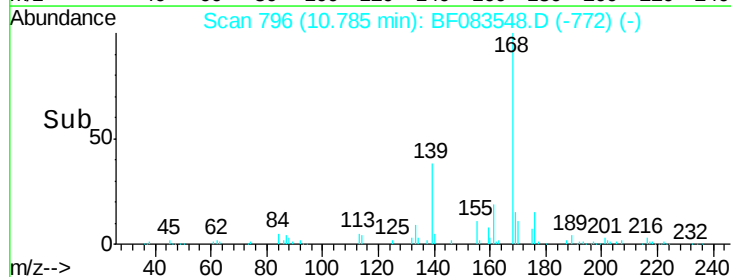
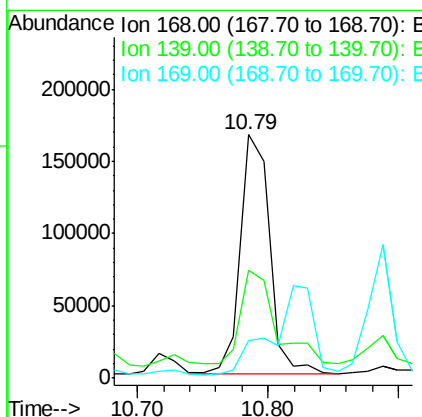
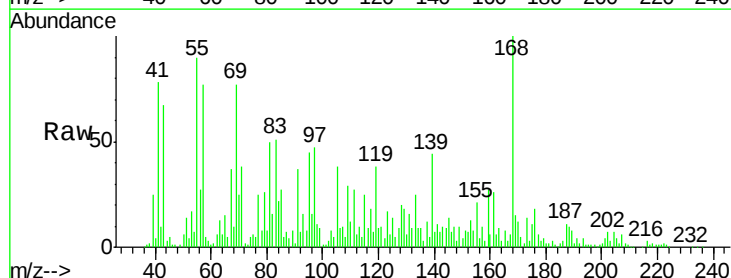
RT: 10.79 min Scan# 796

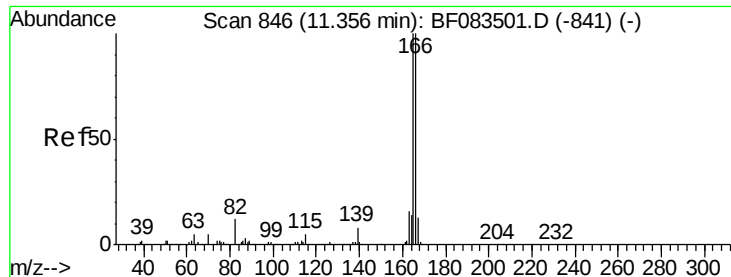
Delta R.T. -0.02 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	256548		
139	44.1	28.0	42.0#	
169	15.2	10.8	16.2	





#57

Fluorene

Concen: 23.19 ng

RT: 11.35 min Scan# 845

Delta R.T. -0.01 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

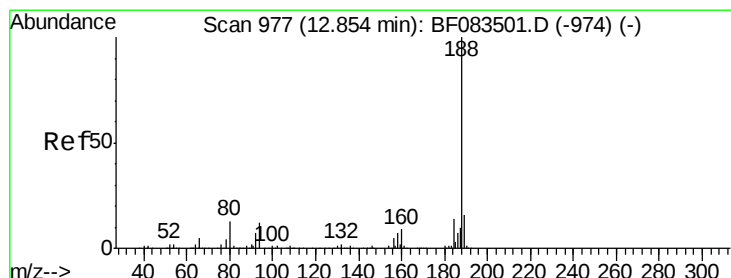
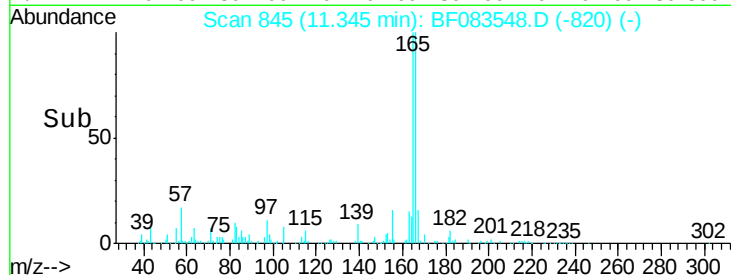
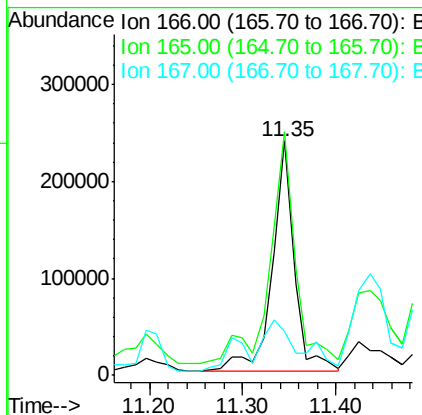
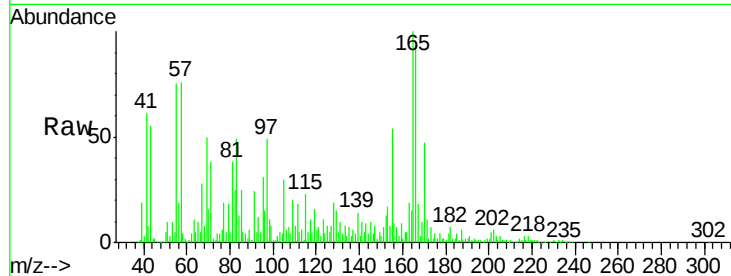
ClientSampleId :

K204-6-8

Tot Ion:	166	Resp:	389286
Ion Ratio	Lower	Upper	
166	100		
165	104.0	80.0	120.0
167	18.8	10.6	16.0#

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#63

Phenanthrene-d10

Concen: 20.00 ng

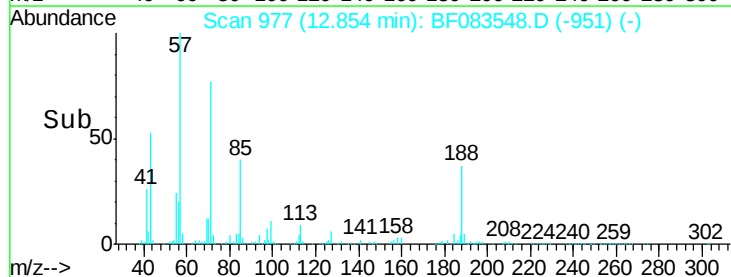
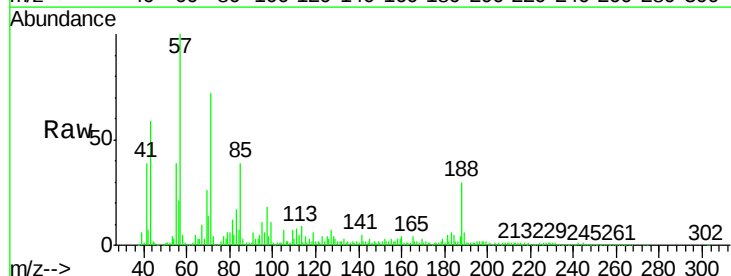
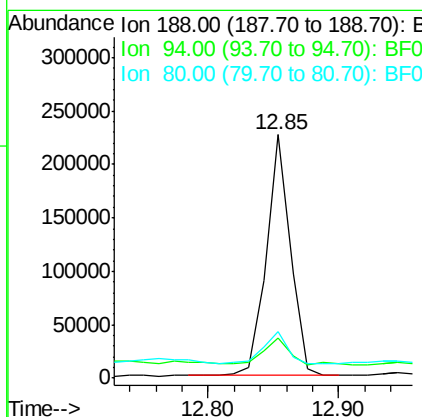
RT: 12.85 min Scan# 977

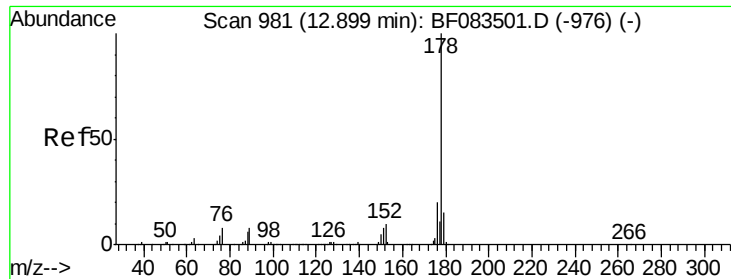
Delta R.T. 0.00 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion:	188	Resp:	294199
Ion Ratio	Lower	Upper	
188	100		
94	16.7	9.4	14.2#
80	18.9	10.6	16.0#





#70

Phenanthrene

Concen: 13.51 ng

RT: 12.89 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

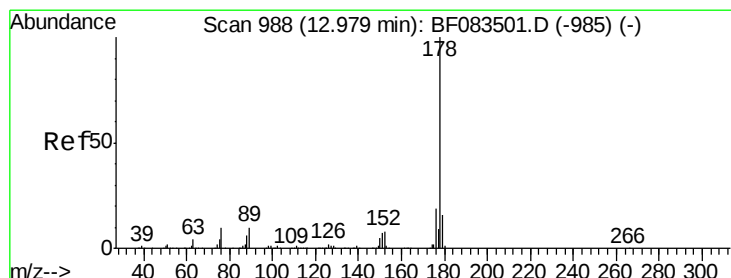
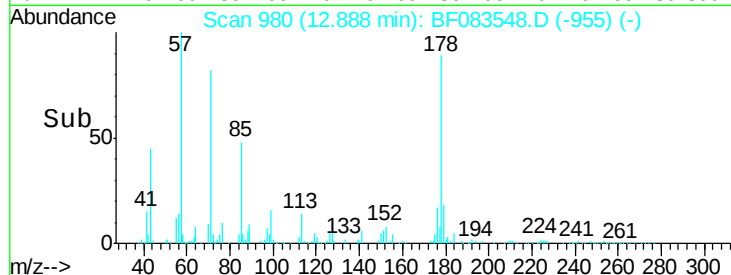
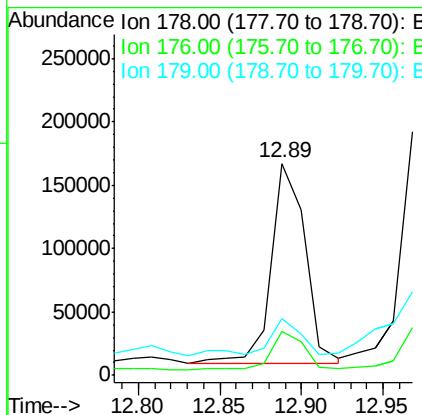
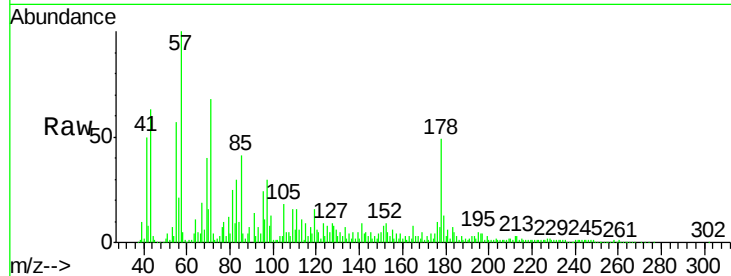
ClientSampled :

K204-6-8

Tot Ion:178	Resp:	231292
Ion Ratio	Lower	Upper
178	100	
176	20.6	15.7 23.5
179	26.9	12.2 18.4#

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#71

Anthracene

Concen: 21.13 ng

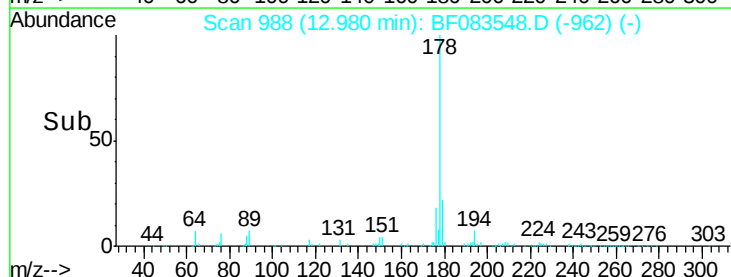
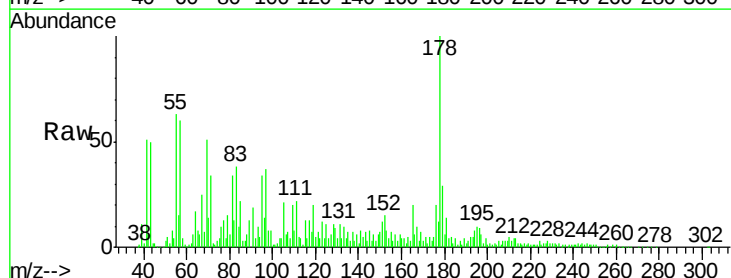
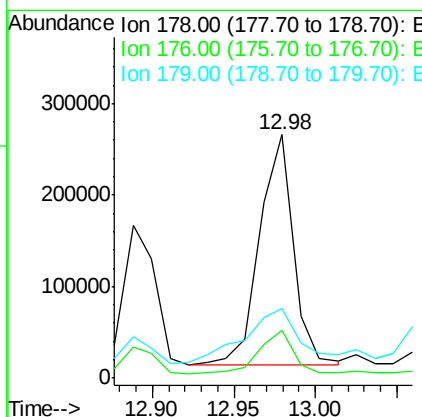
RT: 12.98 min Scan# 988

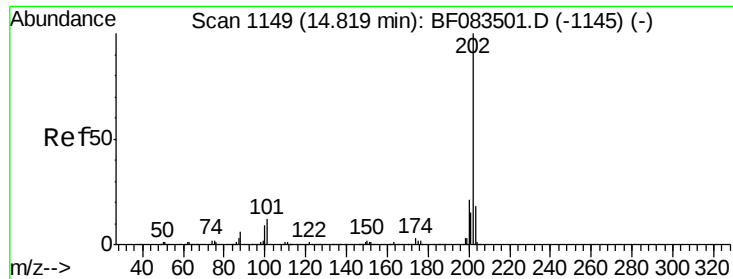
Delta R.T. 0.00 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion:178	Resp:	368988
Ion Ratio	Lower	Upper
178	100	
176	19.8	15.2 22.8
179	28.6	12.6 18.8#





#74

Fluoranthene

Concen: 68.77 ng

RT: 14.84 min Scan# 1151

Delta R.T. 0.02 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

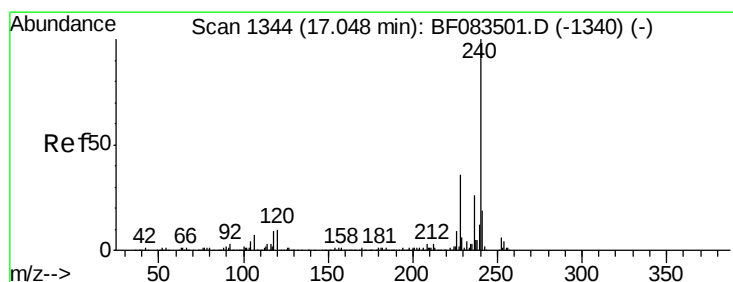
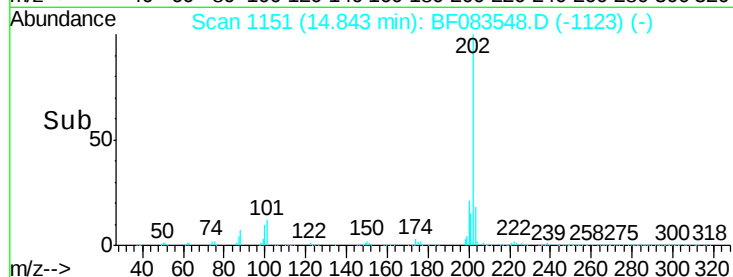
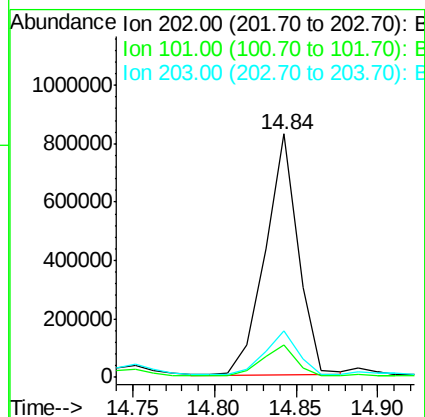
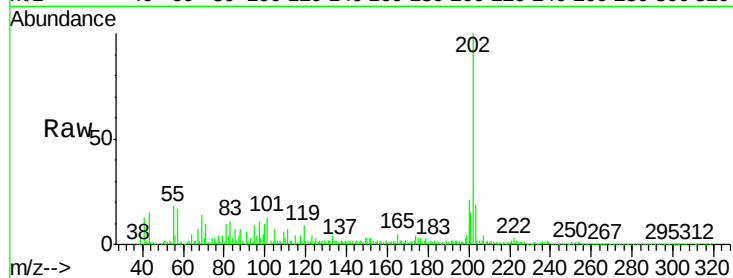
ClientSampleId :

K204-6-8

Tot Ion:	202	Resp:	1167107
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	31.5
203	19.1	0.0	37.6

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

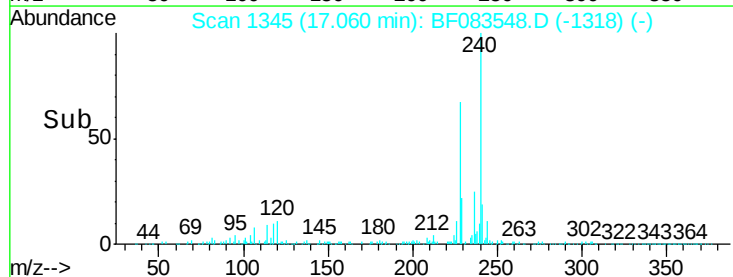
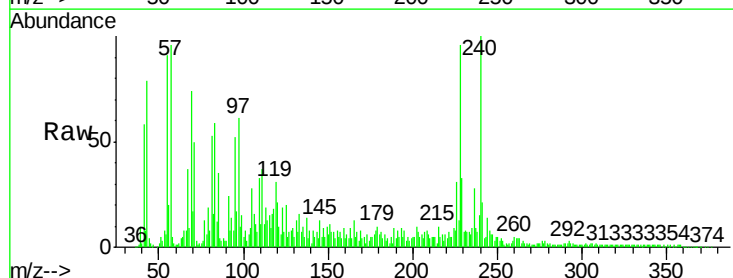
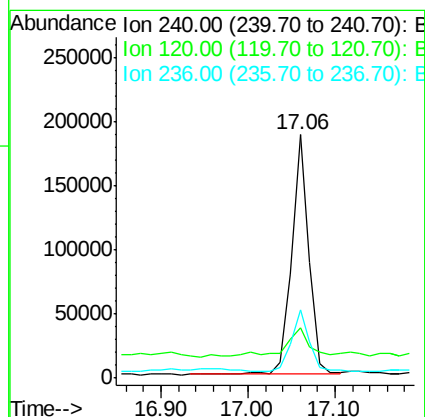
RT: 17.06 min Scan# 1345

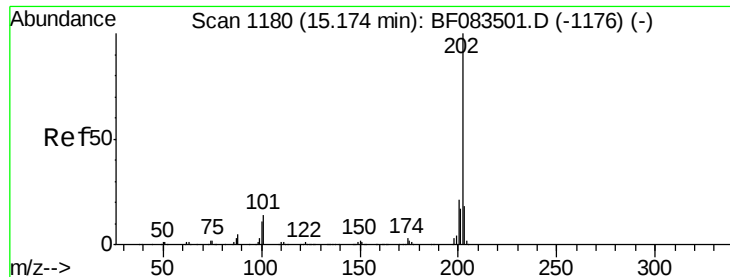
Delta R.T. 0.01 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion:	240	Resp:	259897
Ion Ratio	Lower	Upper	
240	100		
120	20.7	8.1	12.1#
236	27.9	20.8	31.2





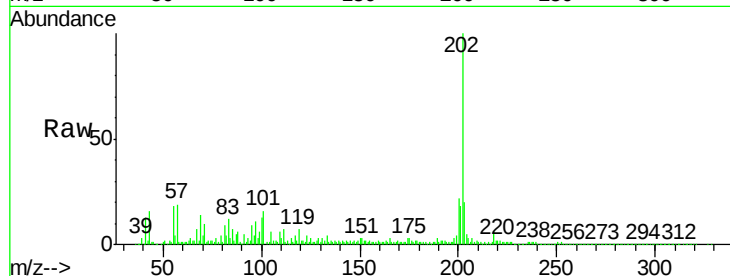
#77
Pvrene
Concen: 73.82 ng
RT: 15.20 min Scan# 1182
Delta R.T. 0.02 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Instrument :
BNA_F
ClientSampleId :
K204-6-8

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	20.5	14.3	21.5

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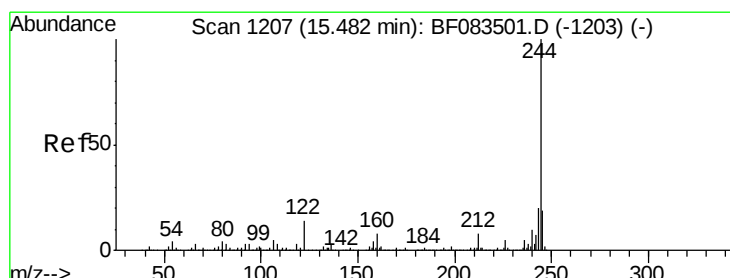
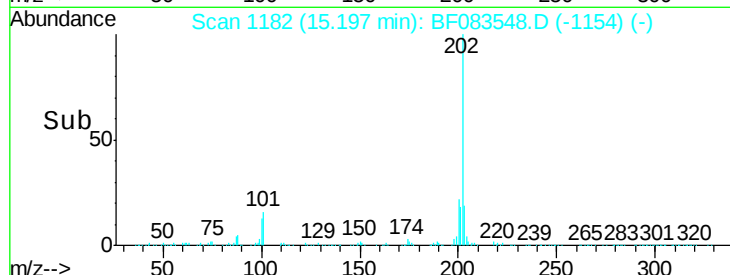
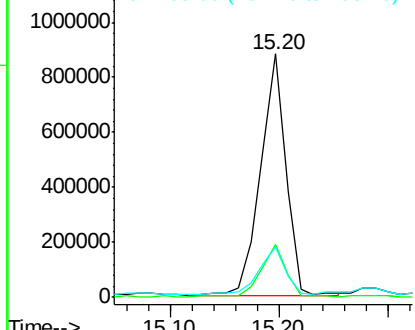


Abundance

Ion 202.00 (201.70 to 202.70): E

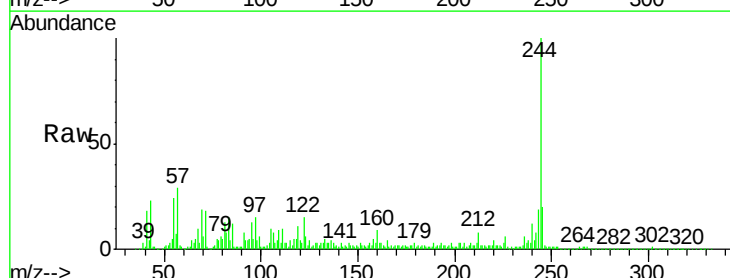
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78
Terphenyl-d14
Concen: 94.63 ng
RT: 15.49 min Scan# 1208
Delta R.T. 0.01 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.1	9.1
122	15.3	11.0	16.6

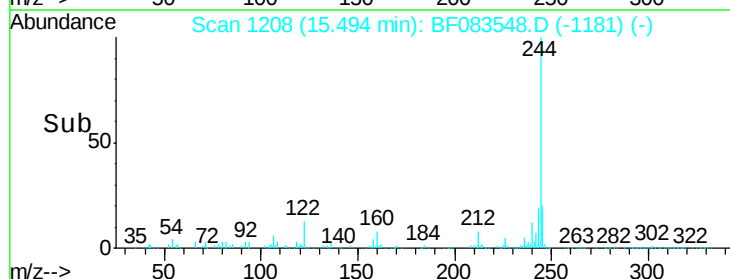
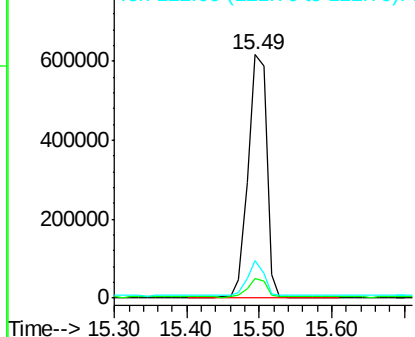


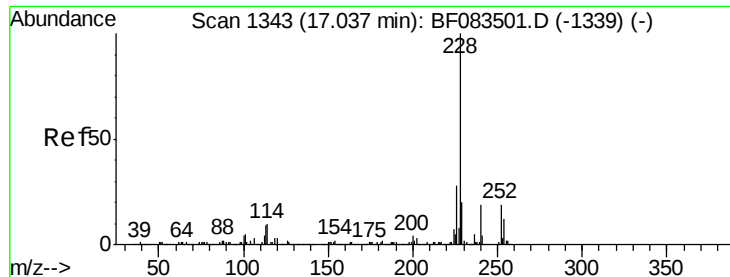
Abundance

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





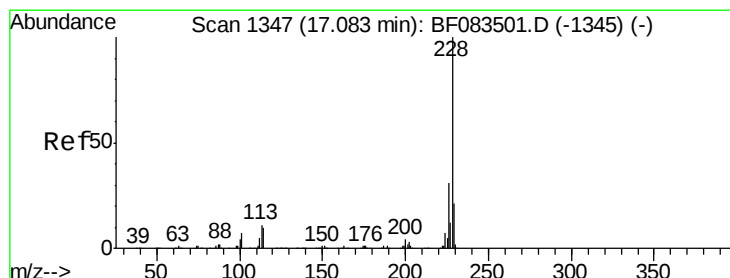
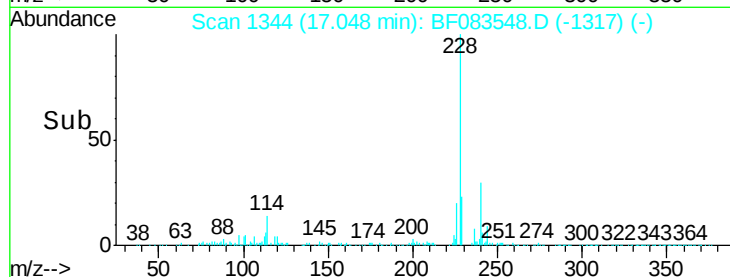
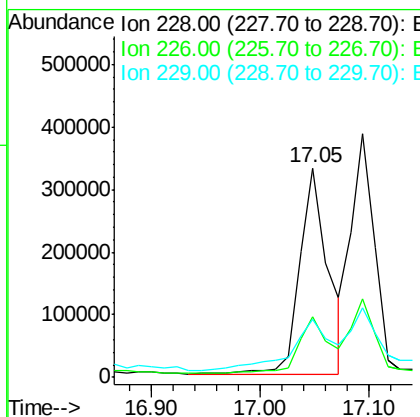
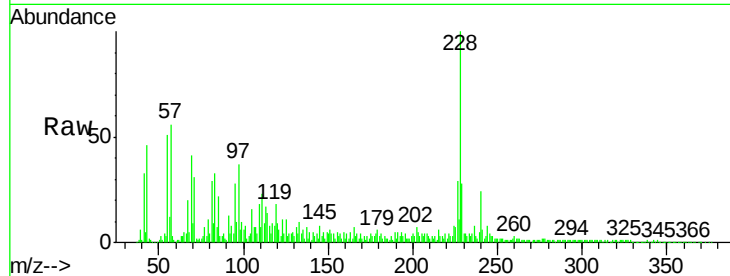
#80
Benzo(a)anthracene
Concen: 39.33 ng
RT: 17.05 min Scan# 1344
Delta R.T. 0.01 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Instrument :
BNA_F
ClientSampleId :
K204-6-8

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.3	33.5
229	27.7	15.7	23.5

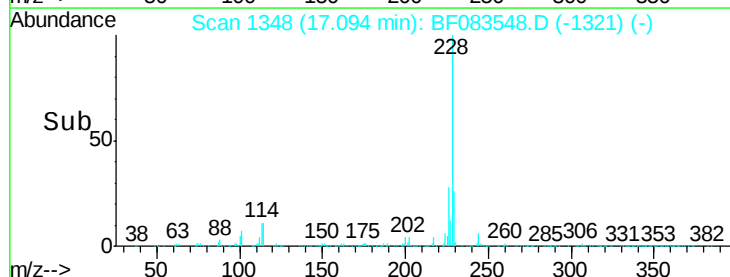
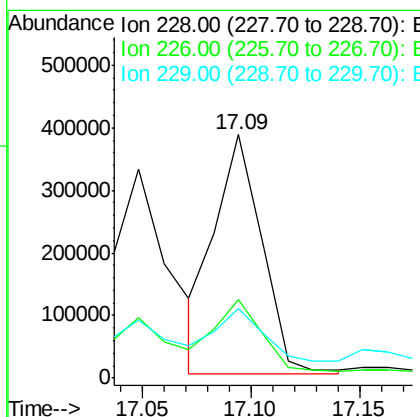
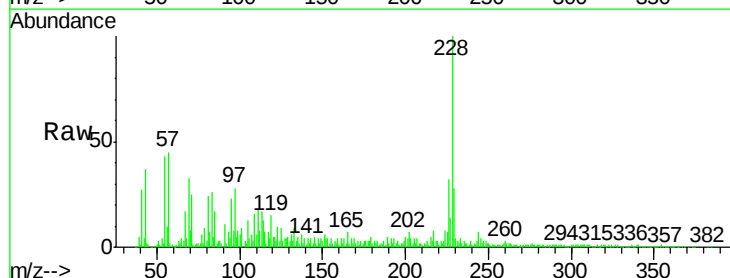
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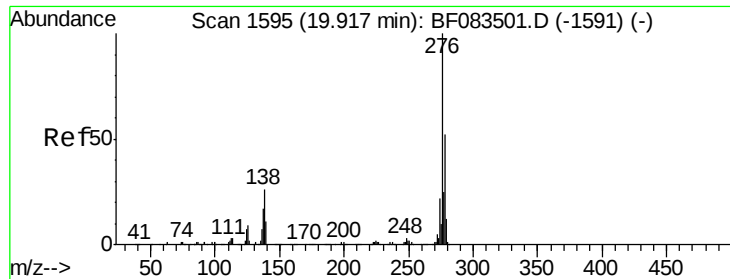
Mmdadoda
12/7/2015 6:33:37 PM



#82
Chrysene
Concen: 38.22 ng
RT: 17.09 min Scan# 1348
Delta R.T. 0.01 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.7	37.1
229	28.5	16.3	24.5





#85

Indeno(1,2,3-cd)pyrene

Concen: 7.98 ng

RT: 19.95 min Scan# 1598

Delta R.T. 0.03 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

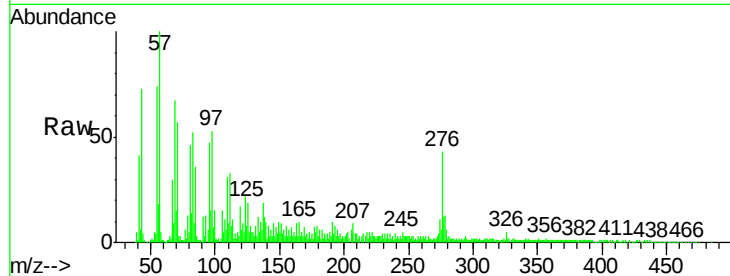
ClientSampleId :

K204-6-8

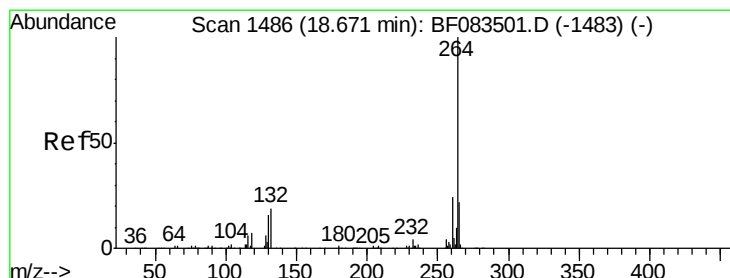
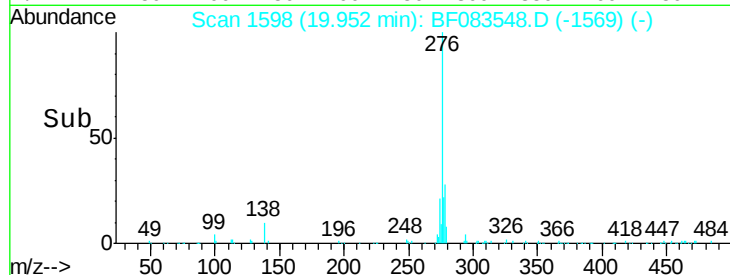
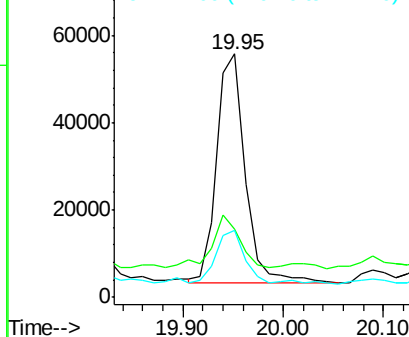
Tot Ion:	276	Resp:	103684
Ion Ratio	Lower	Upper	
276	100		
138	22.0	0.0	0.0#
277	24.2	0.0	0.0#

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



#86

Perylene-d12

Concen: 20.00 ng

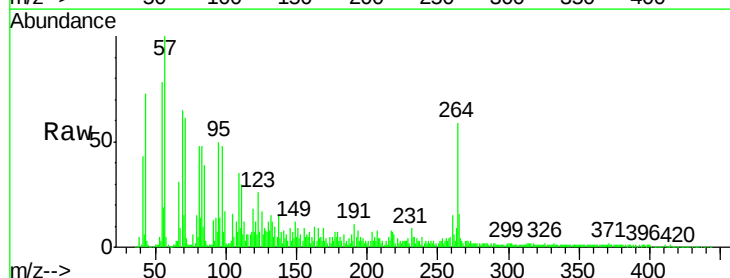
RT: 18.69 min Scan# 1488

Delta R.T. 0.02 min

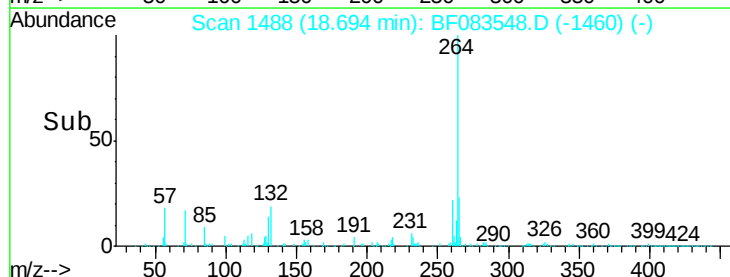
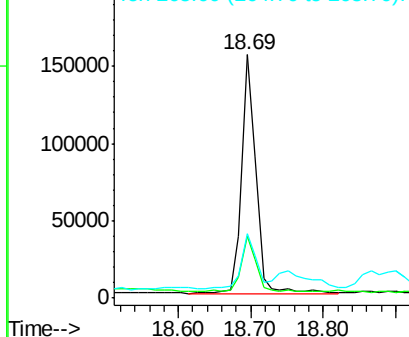
Lab File: BF083548.D

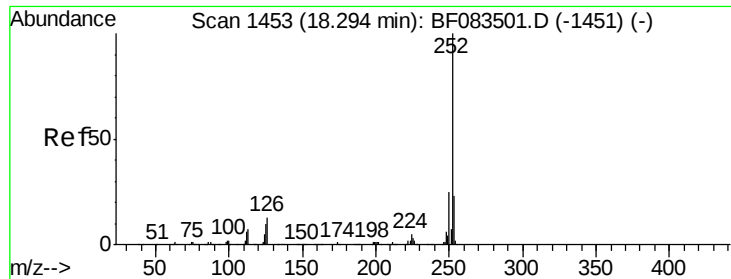
Acq: 7 Dec 2015 7:48

Tgt Ion:	264	Resp:	213537
Ion Ratio	Lower	Upper	
264	100		
260	25.2	19.4	29.0
265	26.3	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





#87

Benzo(b)fluoranthene

Concen: 27.20 ng m

RT: 18.32 min Scan# 1455

Delta R.T. 0.02 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

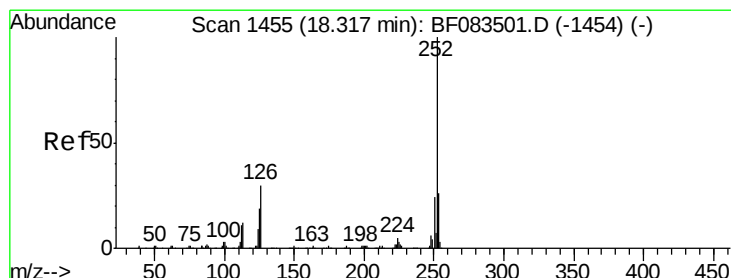
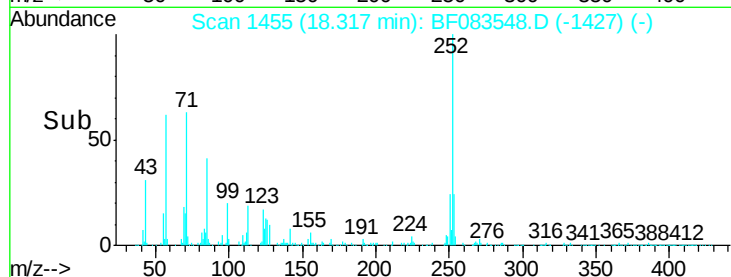
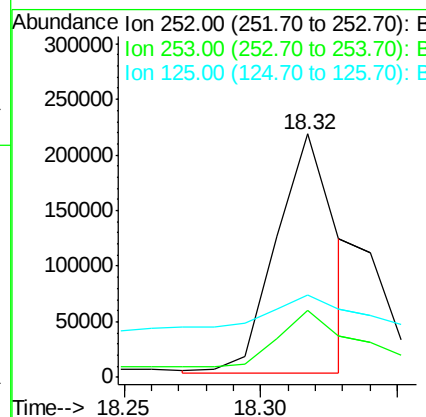
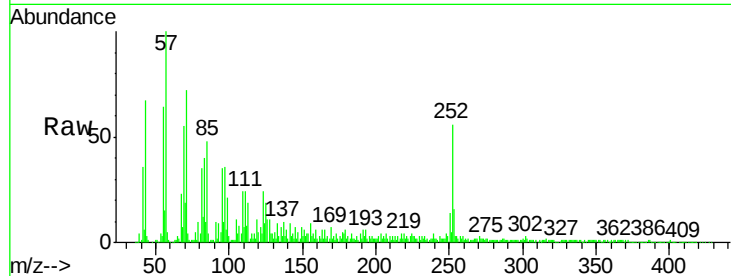
ClientSampled :

K204-6-8

Tot Ion:	252	Resp:	326156
Ion Ratio	Lower	Upper	
252	100		
253	27.7	18.2	27.4#
125	33.7	8.2	12.4#

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#88

Benzo(k)fluoranthene

Concen: 8.77 ng m

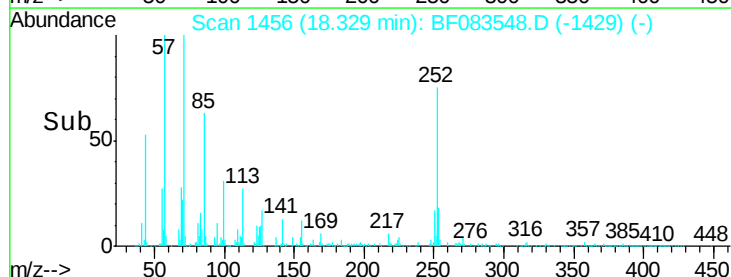
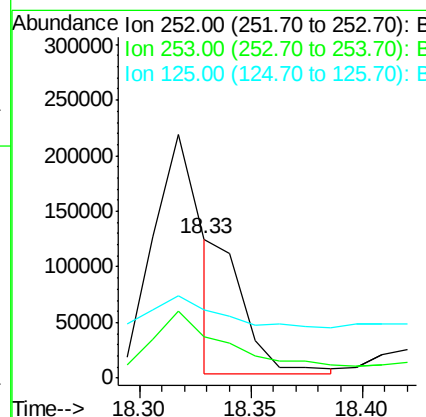
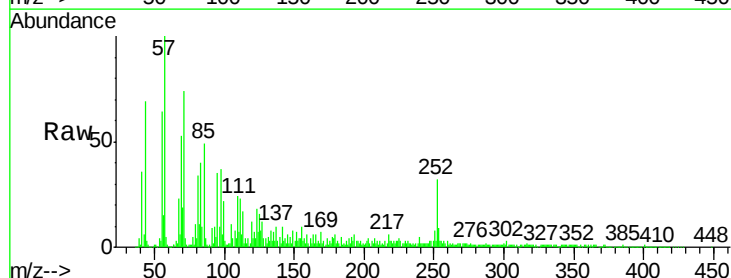
RT: 18.33 min Scan# 1456

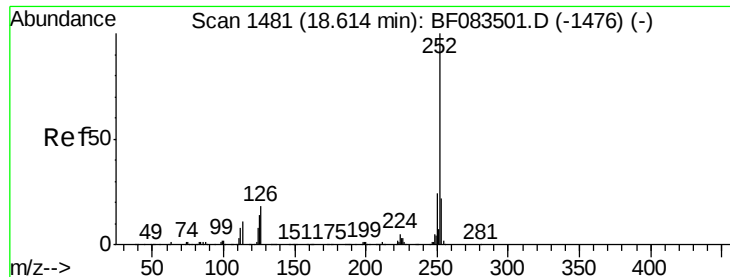
Delta R.T. 0.01 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion:	252	Resp:	107682
Ion Ratio	Lower	Upper	
252	100		
253	29.7	18.6	27.8#
125	48.7	11.5	17.3#





#89

Benzo(a)pyrene

Concen: 12.60 ng

RT: 18.64 min Scan# 1483

Delta R.T. 0.02 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Instrument :

BNA_F

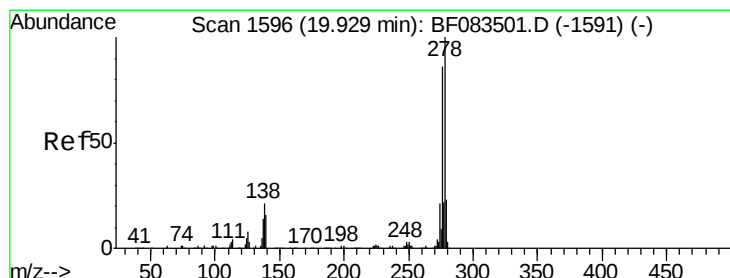
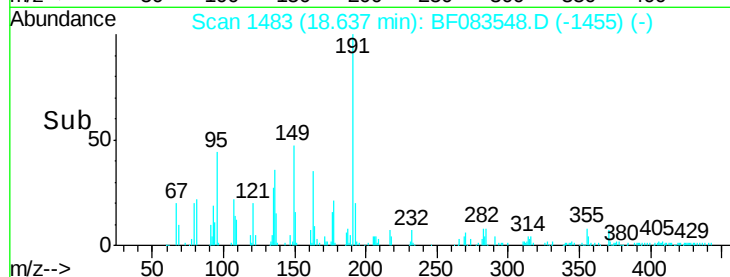
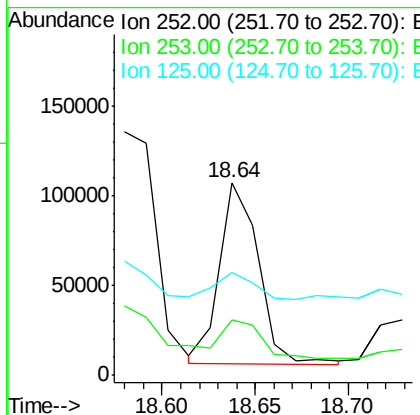
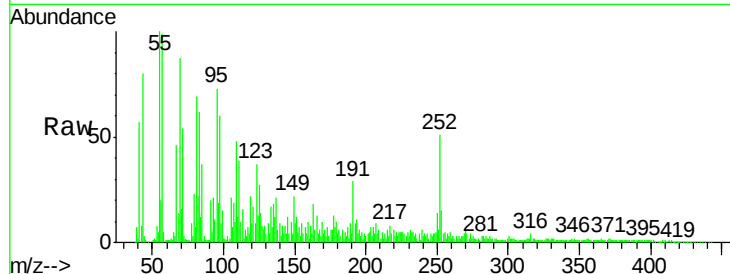
ClientSampleId :

K204-6-8

Tot Ion:	252	Resp:	147003
Ion Ratio	Lower	Upper	
252	100		
253	29.1	17.5	26.3#
125	53.4	11.0	16.6#

Manual Integrations
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12/7/2015 6:33:37 PM



#90

Dibenzo(a,h)anthracene

Concen: 2.91 ng

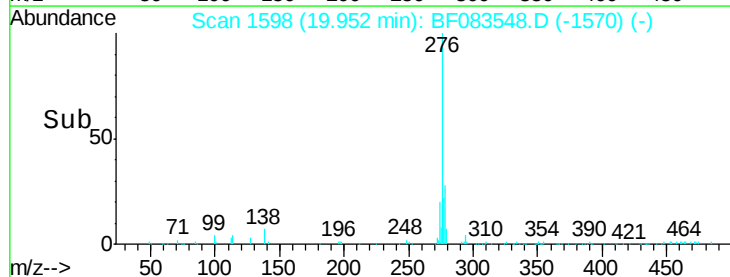
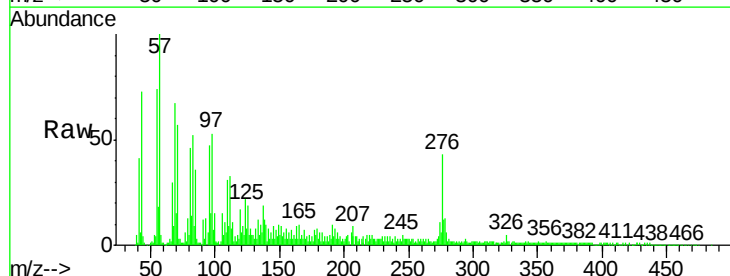
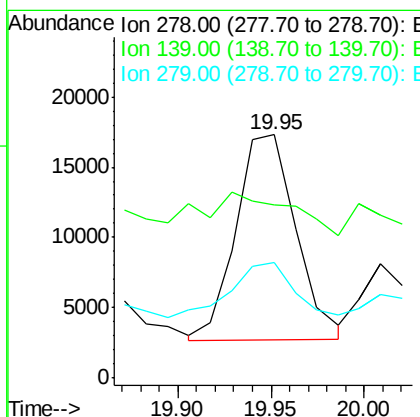
RT: 19.95 min Scan# 1598

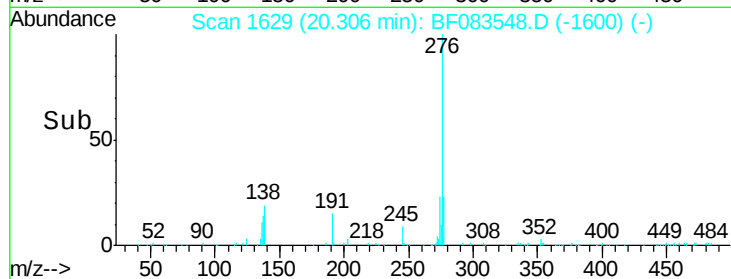
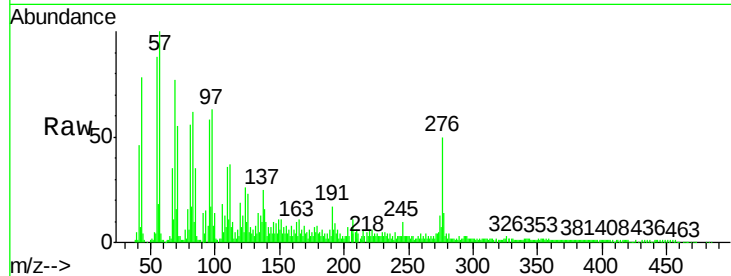
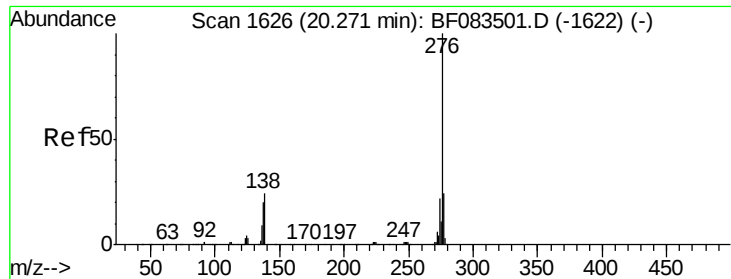
Delta R.T. 0.02 min

Lab File: BF083548.D

Acq: 7 Dec 2015 7:48

Tgt Ion:	278	Resp:	32685
Ion Ratio	Lower	Upper	
278	100		
139	71.3	12.8	19.2#
279	47.5	18.6	28.0#





#91
Benzo(a,h,i)perylene
Concen: 9.44 ng
RT: 20.31 min Scan# 1629
Delta R.T. 0.03 min
Lab File: BF083548.D
Acq: 7 Dec 2015 7:48

Instrument :
BNA_F
ClientSampleId :
K204-6-8

Tot Ion	Ratio	Lower	Upper
276	100		
277	28.6	19.2	28.8
138	31.4	19.5	29.3

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:37 PM

