

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
 Data File : BF082311.D
 Acq On : 15 Oct 2015 16:08
 Operator : UM/IZ
 Sample : G4009-02 5X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KW-2

Manual Integrations
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MMdadoda
 10/16/2015 4:15:51 PM

Quant Time: Oct 16 04:58:41 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 16 01:04:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	83718	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	340682	20.00	ng	0.00
38) Acenaphthene-d10	9.87	164	167637	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	277677	20.00	ng	0.00
75) Chrysene-d12	14.09	240	204193	20.00	ng	0.00
86) Perylene-d12	15.67	264	201042	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	93314	22.50	ng	0.00
7) Phenol-d6	6.47	99	123505	22.88	ng	0.00
23) Nitrobenzene-d5	7.39	82	78101	15.40	ng	-0.01
41) 2,4,6-Tribromophenol	10.66	330	24448	15.55	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	173970	17.21	ng	-0.01
78) Terphenyl-d14	12.96	244	123200	15.99	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.14	128	34557	2.34	ng	99
49) Dimethylphthalate	9.59	163	54600	4.63	ng	100
51) Acenaphthene	9.91	154	40430	4.30	ng	98
54) Dibenzofuran	10.08	168	49301	3.82	ng	95
57) Fluorene	10.42	166	27665	2.61	ng	99
70) Phenanthrene	11.39	178	851571	62.57	ng	100
71) Anthracene	11.44	178	177003	12.62	ng	98
72) Carbazole	11.60	167	79486	6.21	ng	99
74) Fluoranthene	12.59	202	959641	65.65	ng	96
77) Pyrene	12.82	202	796624	65.74	ng	100
80) Benzo(a)anthracene	14.08	228	415614m	39.12	ng	
82) Chrysene	14.12	228	385995m	34.48	ng	
85) Indeno(1,2,3-cd)pyrene	17.12	276	194532	21.86	ng	# 94
87) Benzo(b)fluoranthene	15.25	252	509259m	41.64	ng	
88) Benzo(k)fluoranthene	15.27	252	161473m	15.71	ng	
89) Benzo(a)pyrene	15.60	252	331115	31.50	ng	97
90) Dibenzo(a,h)anthracene	17.12	278	43780m	5.08	ng	
91) Benzo(g,h,i)perylene	17.56	276	160660	19.20	ng	96

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

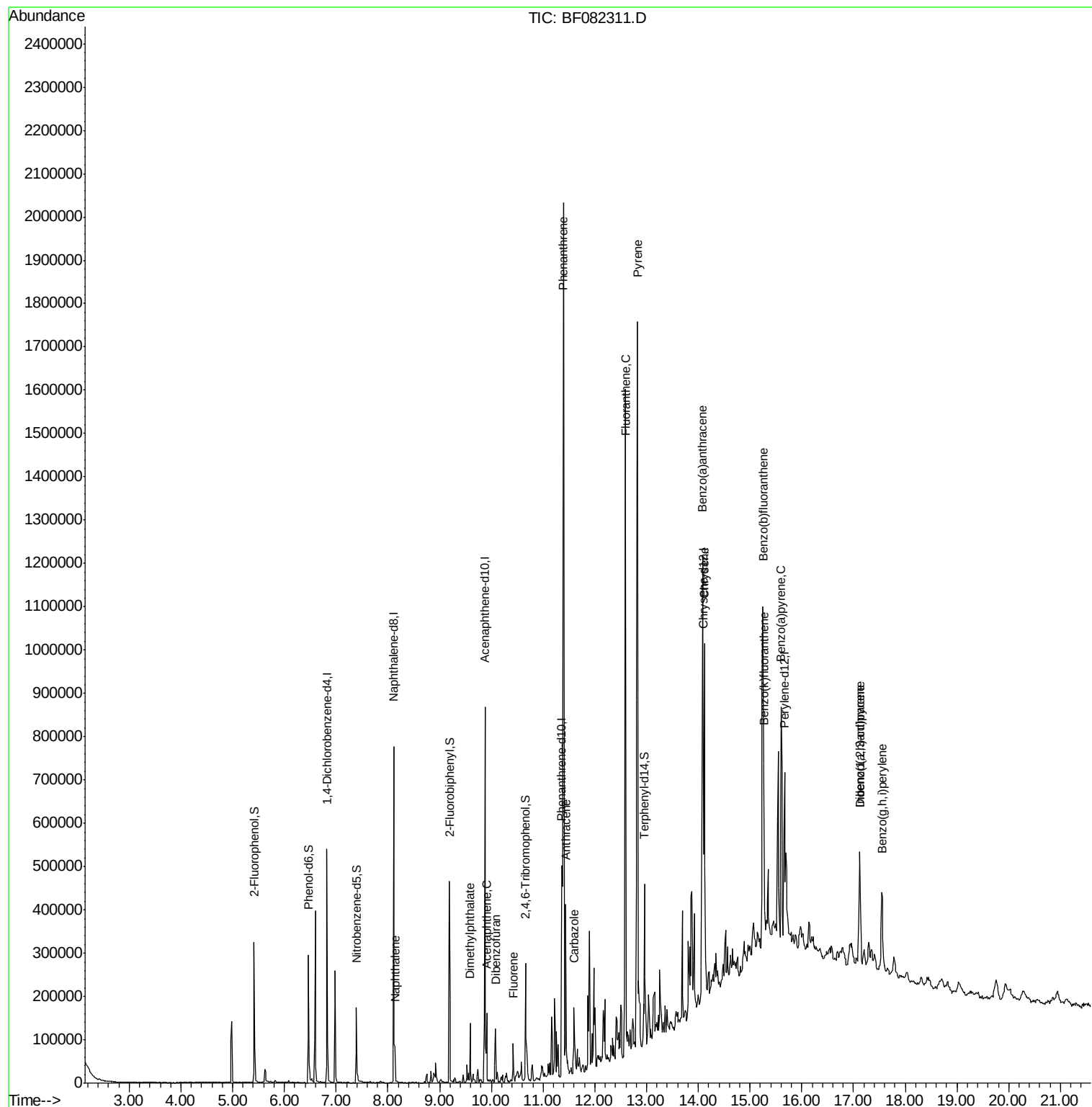
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082311.D
Acq On : 15 Oct 2015 16:08
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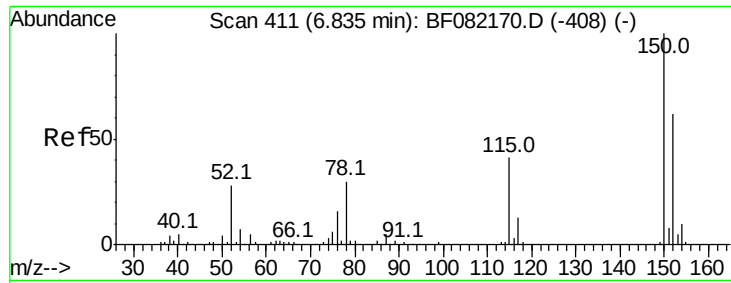
Instrument :
BNA_F
ClientSampleId :
KW-2

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Quant Time: Oct 16 04:58:41 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
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#1

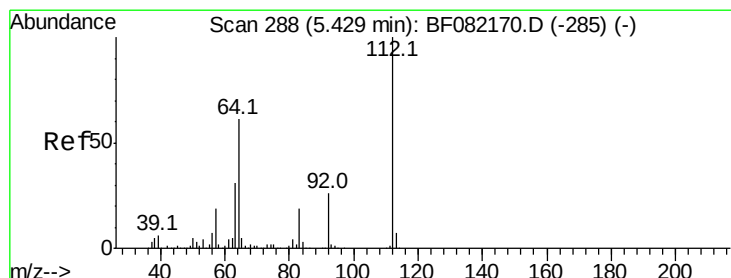
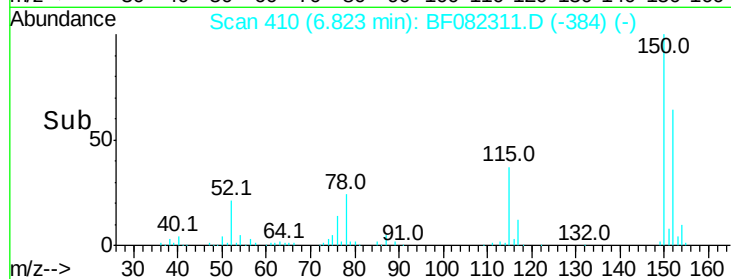
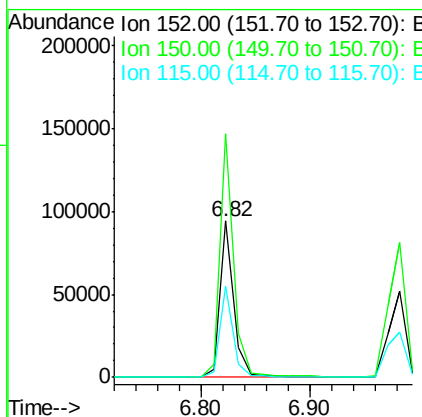
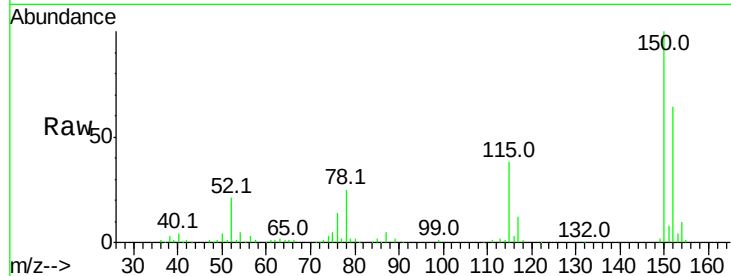
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 410
Delta R.T. -0.00 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Instrument :
BNA_F
ClientSampleId :
KW-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	129.0	193.4
115	58.7	52.1	78.1

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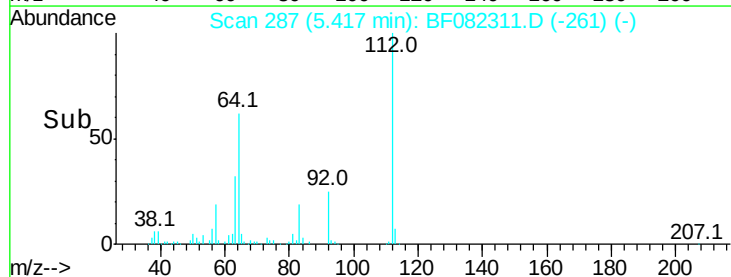
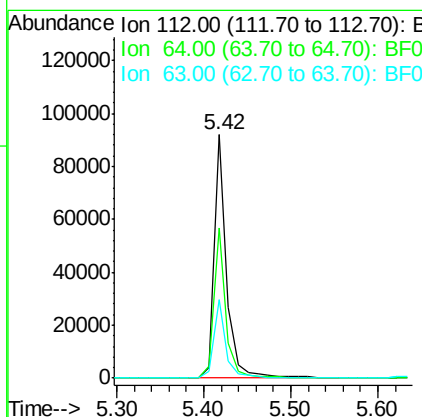
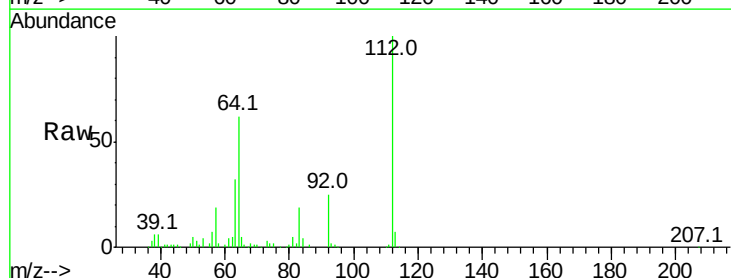
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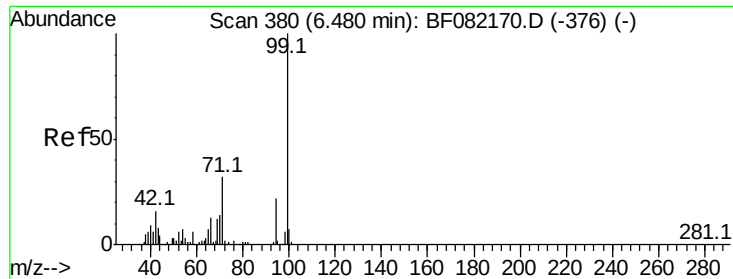


#5

2-Fluorophenol
Concen: 22.50 ng
RT: 5.42 min Scan# 287
Delta R.T. -0.00 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	48.6	73.0
63	32.5	25.1	37.7





#7

Phenol-d6

Concen: 22.88 ng

RT: 6.47 min Scan# 379

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

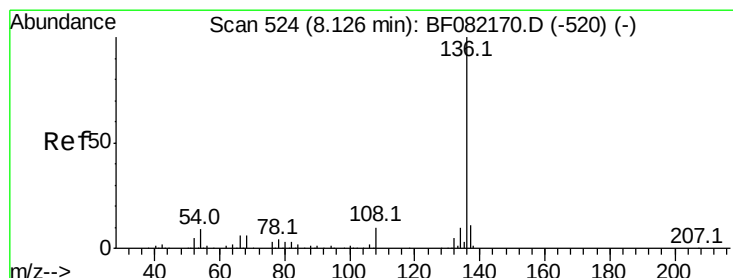
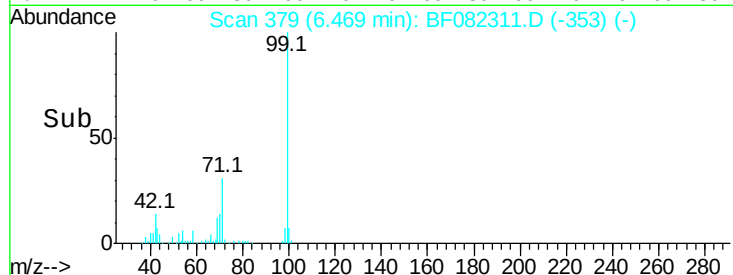
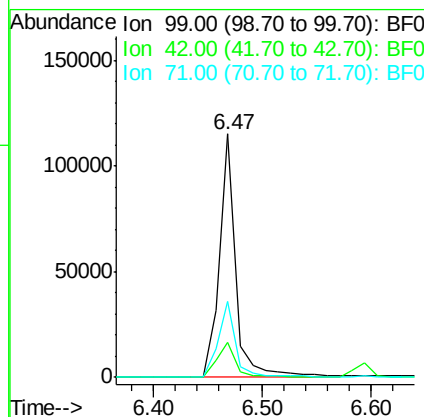
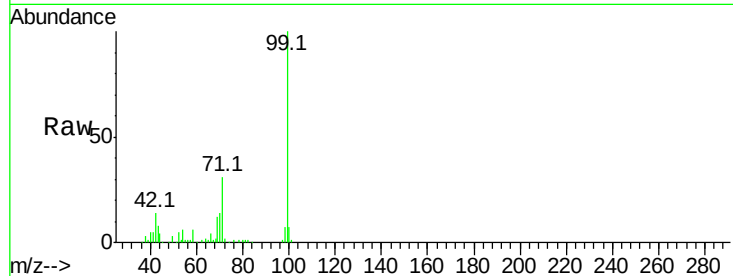
ClientSampleId :

KW-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		123505		
42	14.4	13.2	19.8		
71	31.3	25.6	38.4		

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#21

Naphthalene-d8

Concen: 20.00 ng

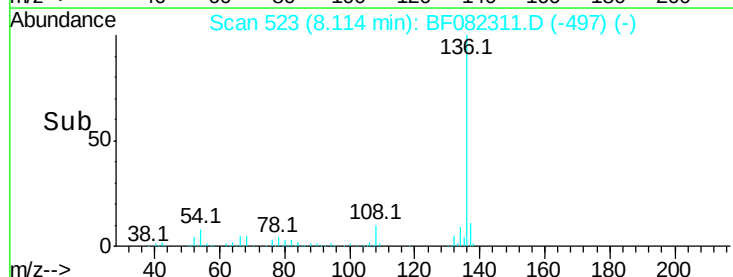
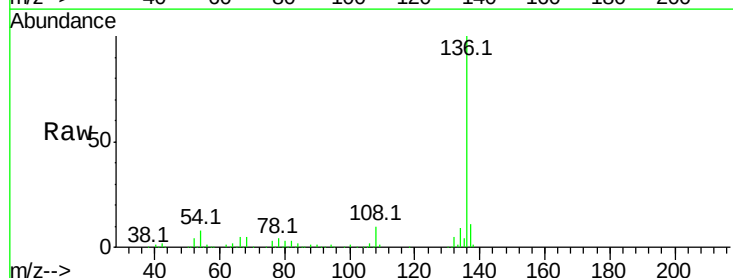
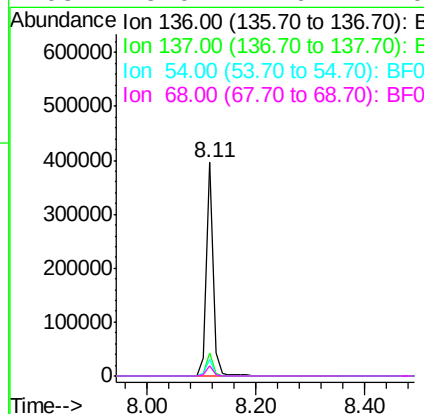
RT: 8.11 min Scan# 523

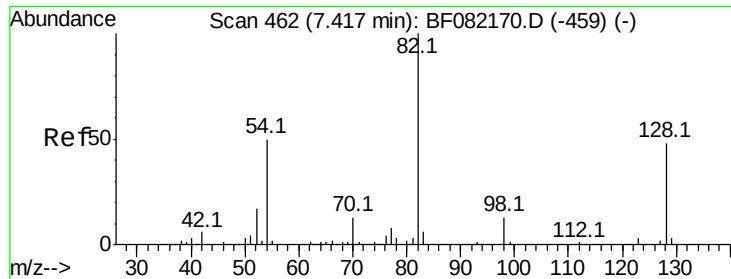
Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		340682		
137	10.8	9.0	13.6		
54	7.9	7.5	11.3		
68	5.0	4.6	7.0		





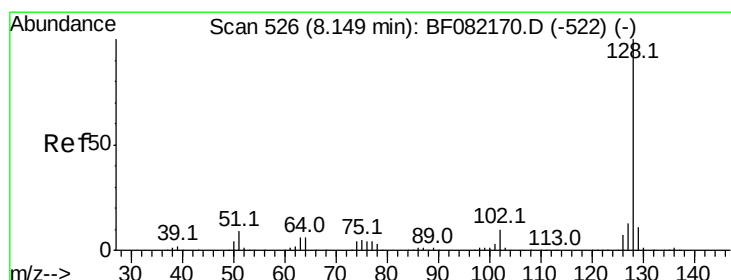
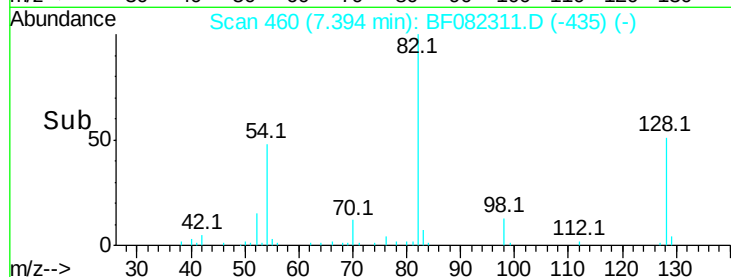
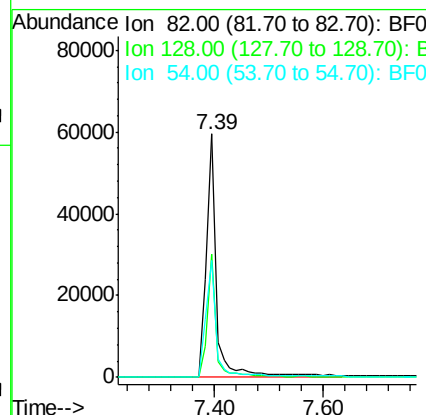
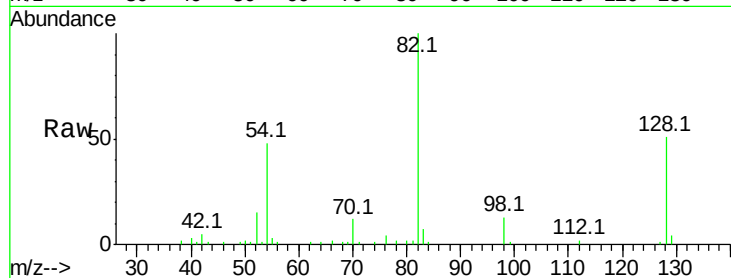
#23
Nitrobenzene-d5
Concen: 15.40 ng
RT: 7.39 min Scan# 460
Delta R.T. -0.01 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Instrument :
BNA_F
ClientSampleId :
KW-2

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.8	38.7	58.1
54	48.1	40.1	60.1

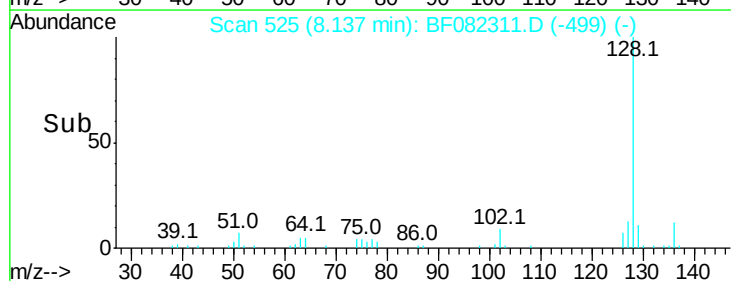
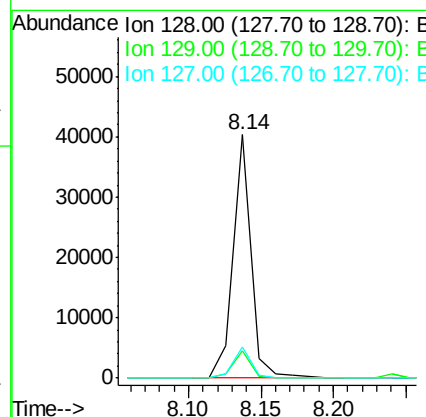
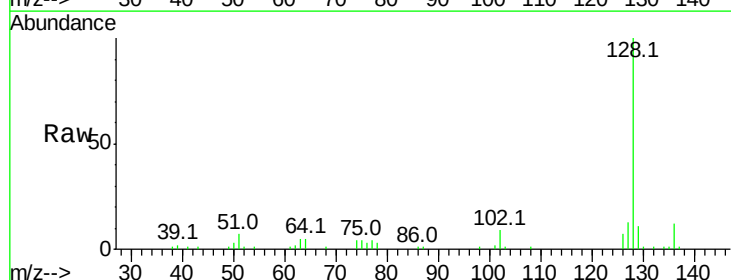
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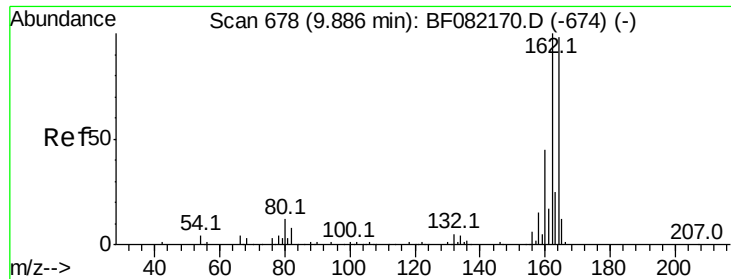
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#31
Naphthalene
Concen: 2.34 ng
RT: 8.14 min Scan# 525
Delta R.T. -0.00 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	12.8	10.7	16.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 677

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

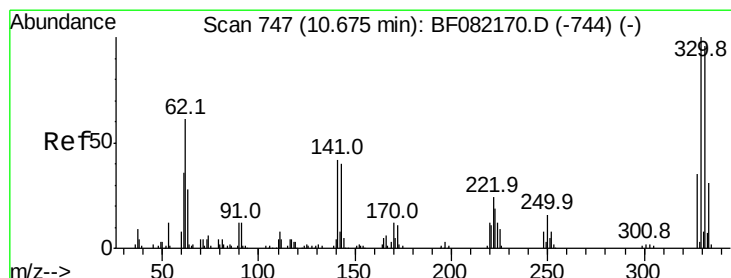
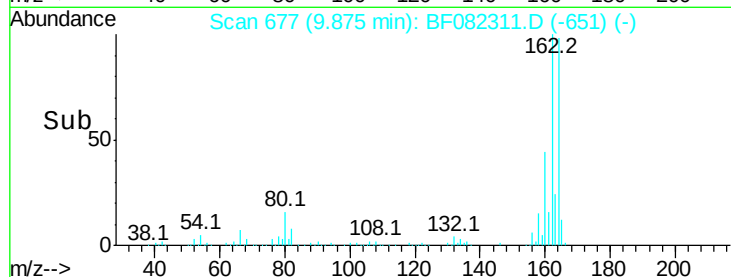
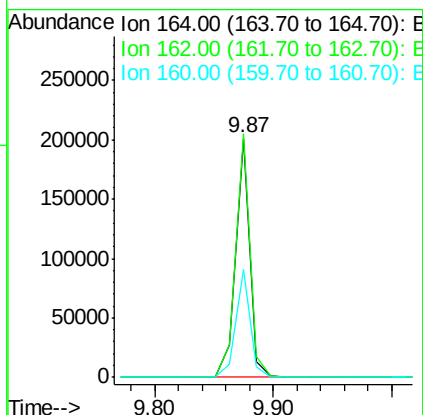
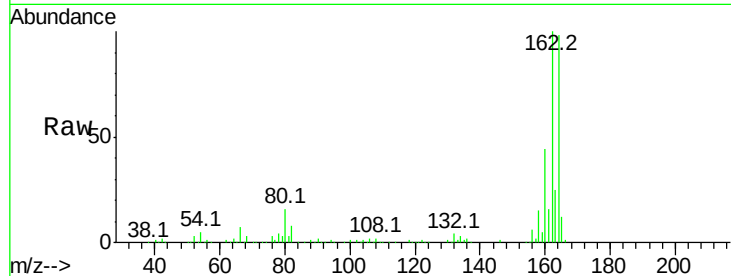
ClientSampleId :

KW-2

Tot Ion:	164	Resp:	167637
Ion Ratio	Lower	Upper	
164	100		
162	101.9	81.6	122.4
160	45.1	36.4	54.6

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#41

2,4,6-Tribromophenol

Concen: 15.55 ng

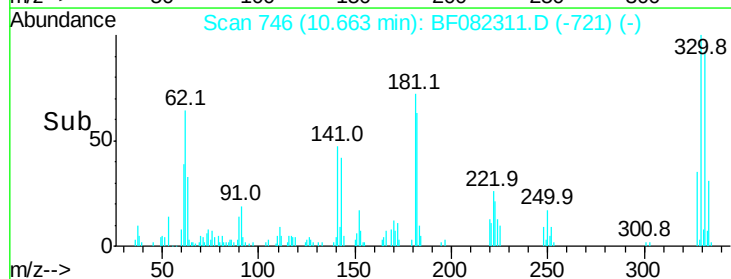
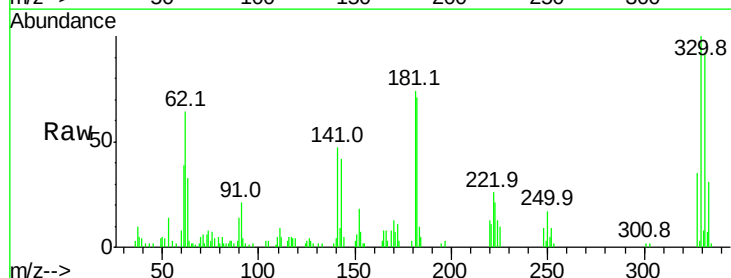
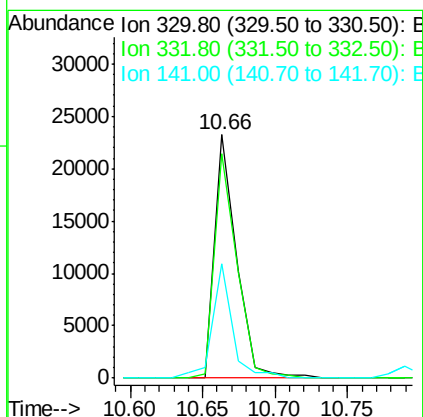
RT: 10.66 min Scan# 746

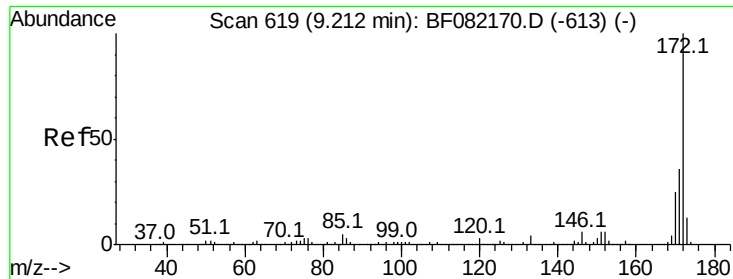
Delta R.T. -0.01 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Tgt Ion:	330	Resp:	24448
Ion Ratio	Lower	Upper	
330	100		
332	94.4	77.1	115.7
141	42.4	29.8	44.8





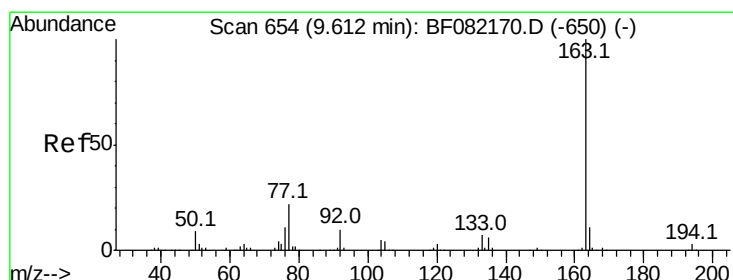
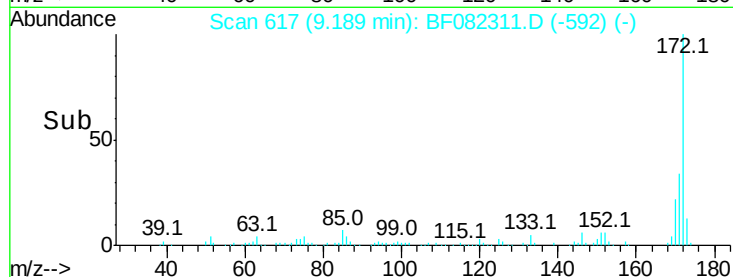
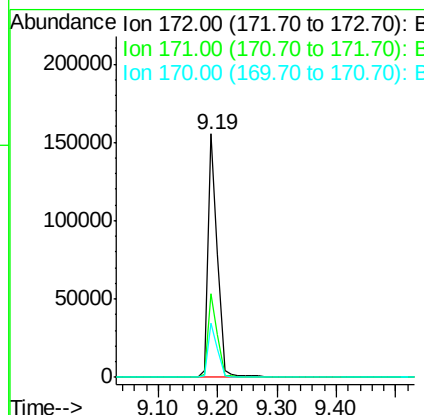
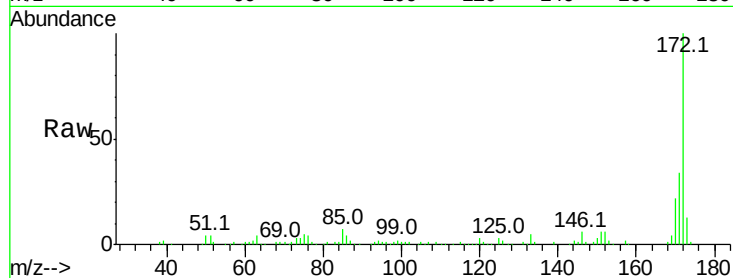
#44
 2-Fluorobiphenyl
 Concen: 17.21 ng
 RT: 9.19 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF082311.D
 Acq: 15 Oct 2015 16:08

Instrument :
 BNA_F
 ClientSampleId :
 KW-2

Tot Ion	Ratio	Resp	Lower	Upper
172	100	173970		
171	34.5		28.6	42.8
170	22.5		19.7	29.5

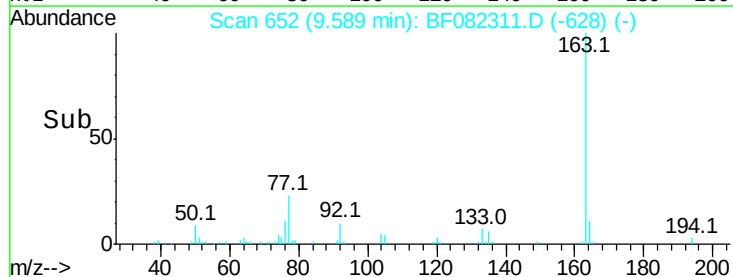
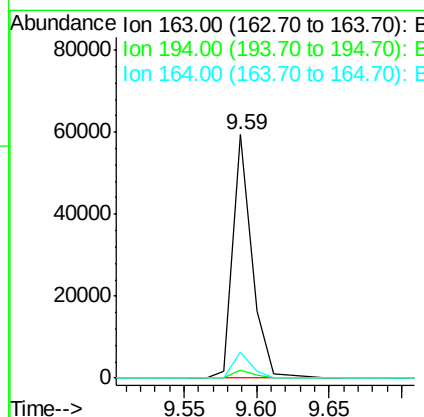
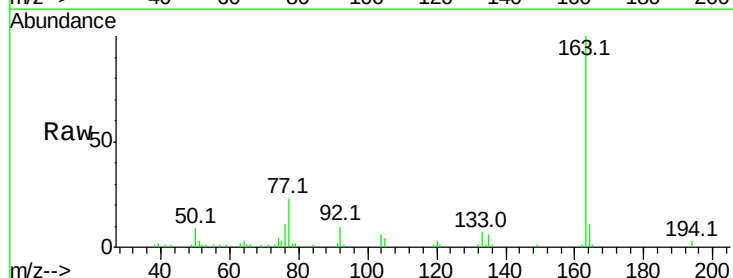
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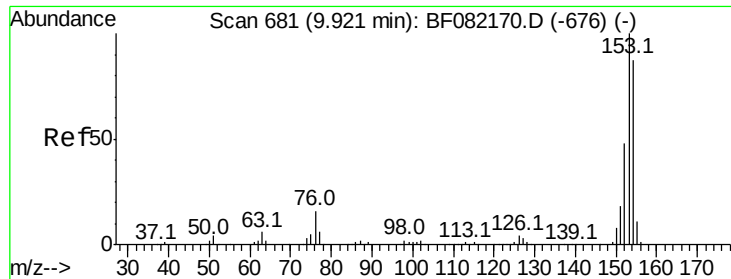
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#49
 Dimethylphthalate
 Concen: 4.63 ng
 RT: 9.59 min Scan# 652
 Delta R.T. -0.02 min
 Lab File: BF082311.D
 Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	54600		
194	3.1		2.6	4.0
164	10.7		8.5	12.7





#51

Acenaphthene

Concen: 4.30 ng

RT: 9.91 min Scan# 680

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

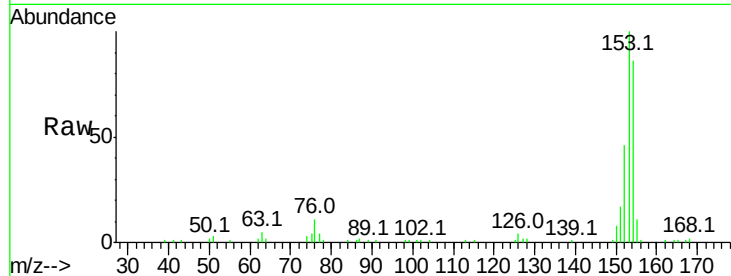
ClientSampleId :

KW-2

Tot Ion:	154	Resp:	40430
Ion Ratio	Lower	Upper	
154	100		
153	116.2	91.4	137.2
152	53.2	44.3	66.5

Manual Integrations
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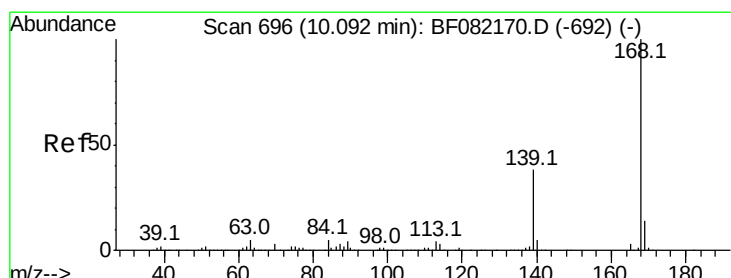
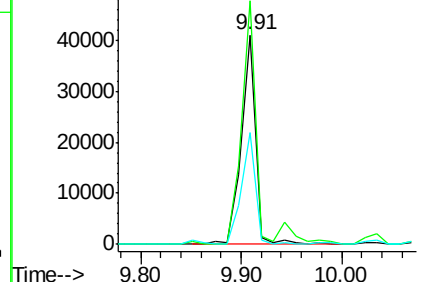
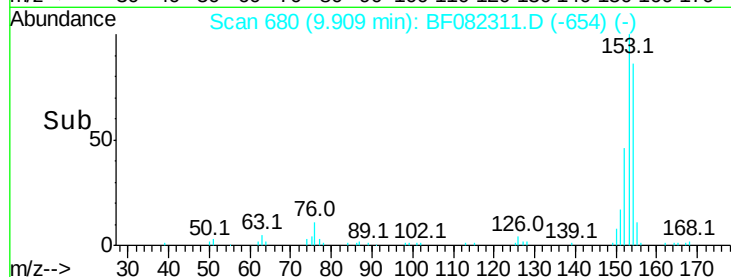
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.82 ng

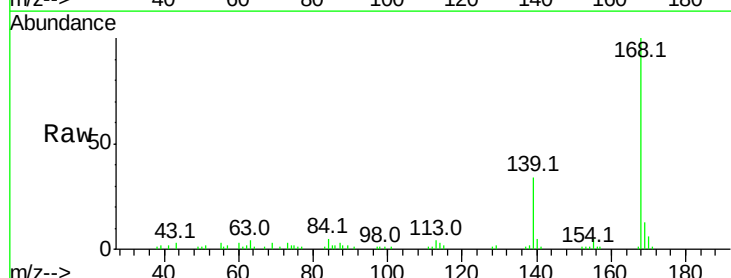
RT: 10.08 min Scan# 695

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

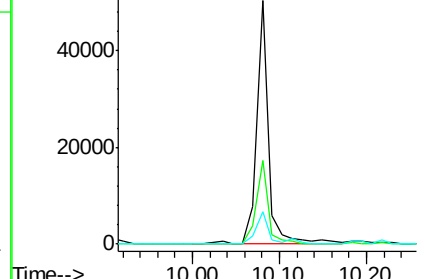
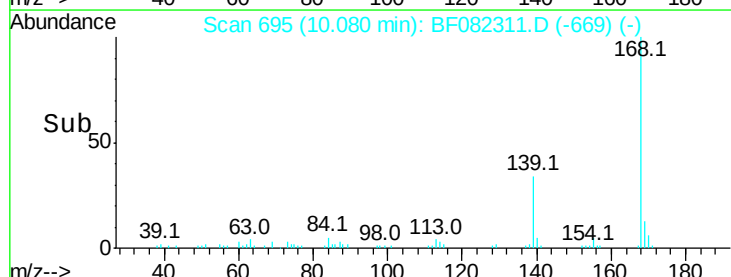
Tgt Ion:	168	Resp:	49301
Ion Ratio	Lower	Upper	
168	100		
139	34.5	31.0	46.6
169	13.4	10.9	16.3

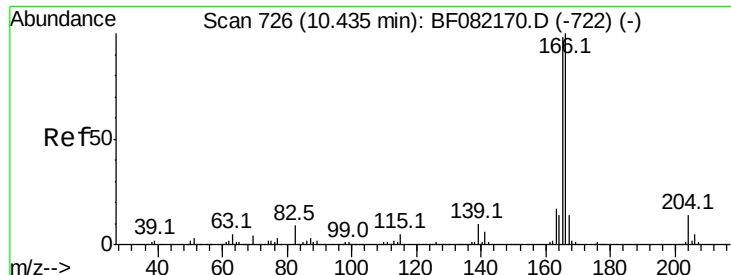


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





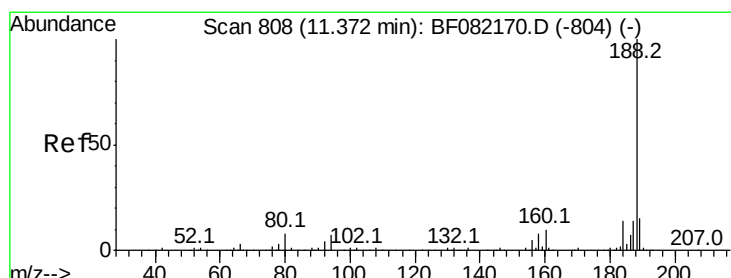
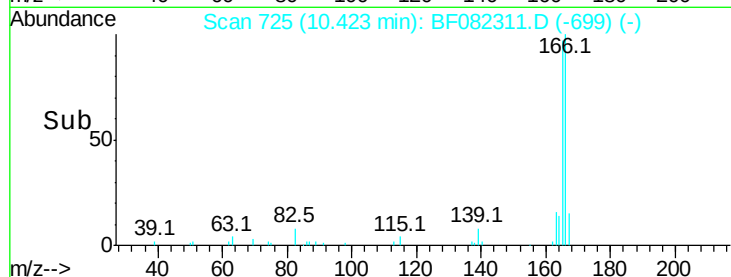
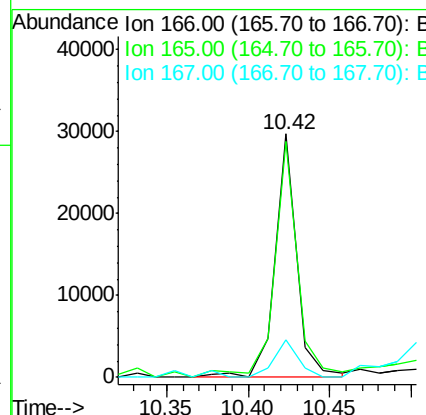
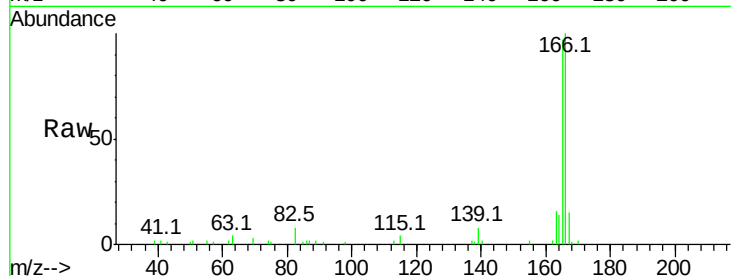
#57
Fluorene
Concen: 2.61 ng
RT: 10.42 min Scan# 725
Delta R.T. -0.00 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Instrument :
BNA_F
ClientSampleId :
KW-2

Tot Ion	Ratio	Resp	Lower	Upper
166	100	27665		
165	96.9		78.3	117.5
167	15.5		10.8	16.2

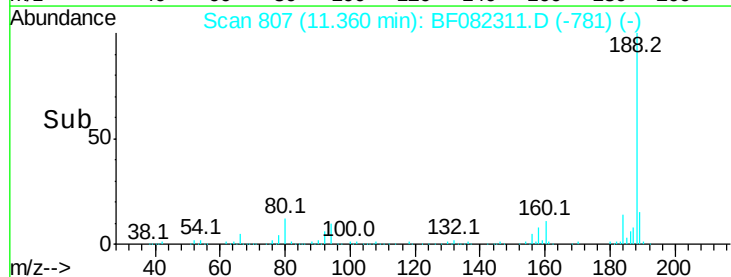
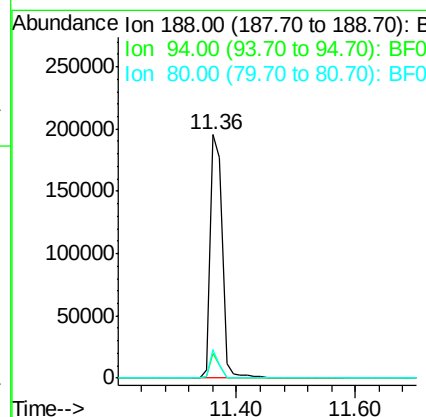
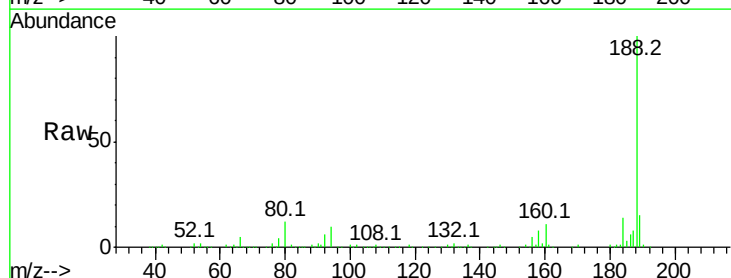
Manual Integrations
APPROVED

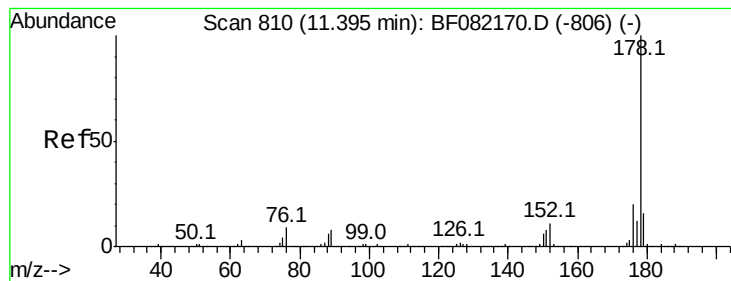
MMdadoda
10/16/2015 4:15:51 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 807
Delta R.T. -0.00 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	277677		
94	10.3		5.8	8.6#
80	11.6		6.4	9.6#





#70

Phenanthrene

Concen: 62.57 ng

RT: 11.39 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

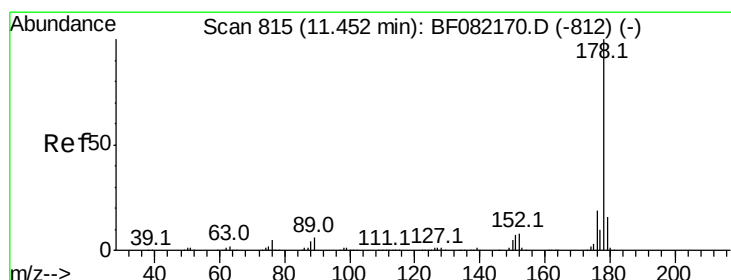
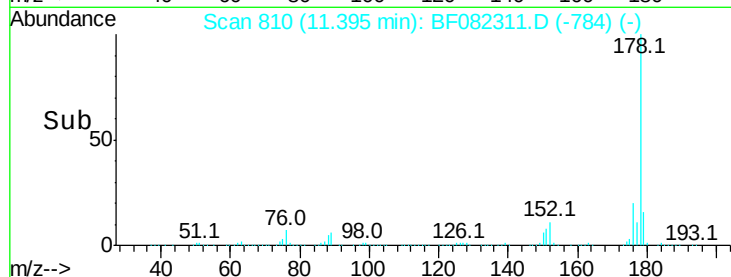
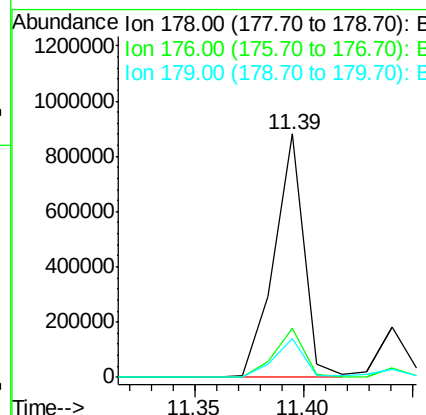
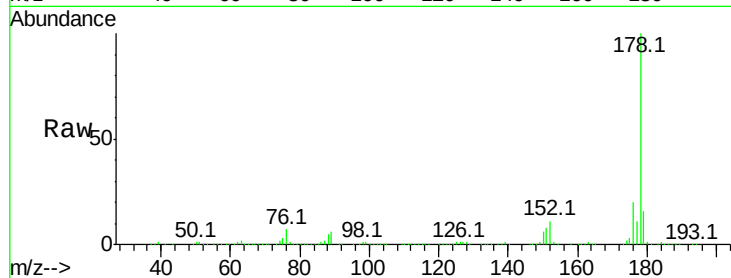
ClientSampled :

KW-2

Tot Ion:	178	Resp:	851571
Ion Ratio	Lower	Upper	
178	100		
176	20.2	16.0	24.0
179	15.9	12.6	19.0

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#71

Anthracene

Concen: 12.62 ng

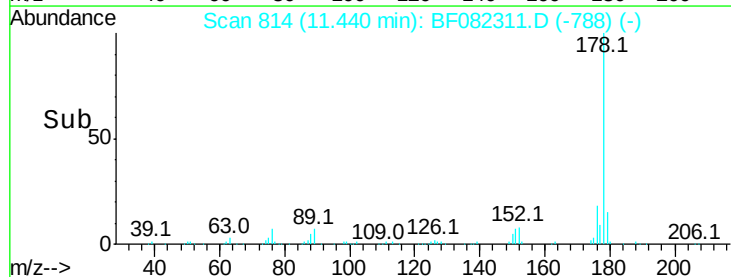
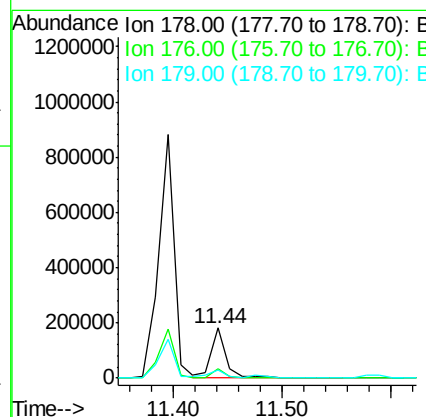
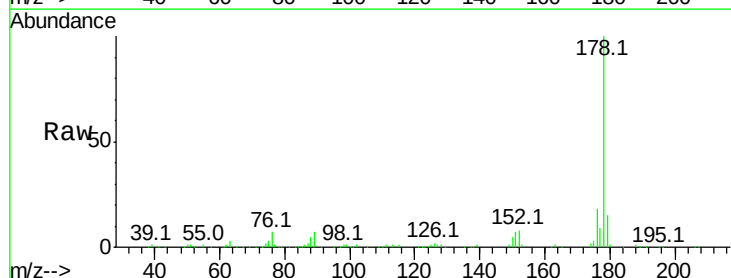
RT: 11.44 min Scan# 814

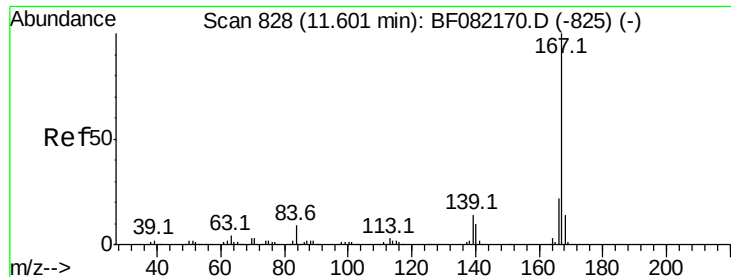
Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Tgt Ion:	178	Resp:	177003
Ion Ratio	Lower	Upper	
178	100		
176	17.9	15.4	23.0
179	15.4	12.5	18.7





#72

Carbazole

Concen: 6.21 ng

RT: 11.60 min Scan# 828

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

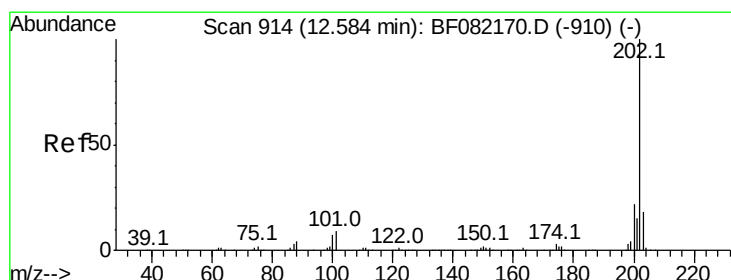
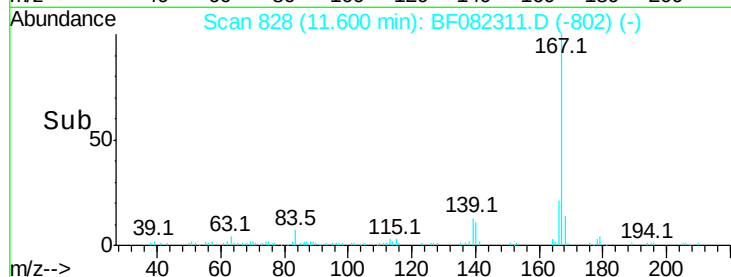
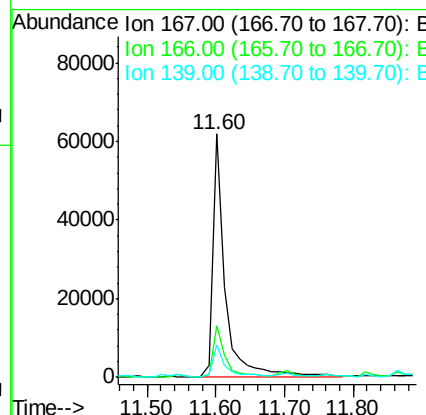
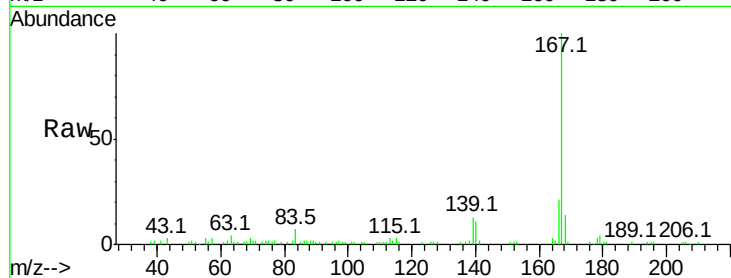
ClientSampleId :

KW-2

Tot Ion:	167	Resp:	79486
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.3	25.9
139	13.1	11.2	16.8

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#74

Fluoranthene

Concen: 65.65 ng

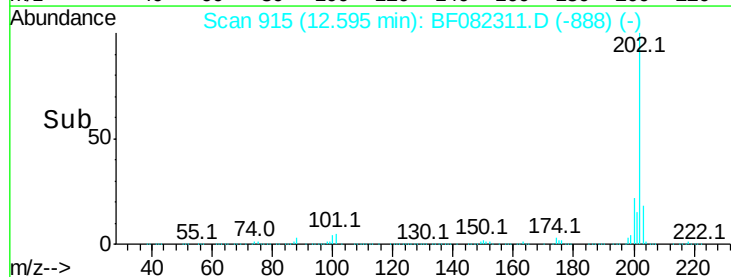
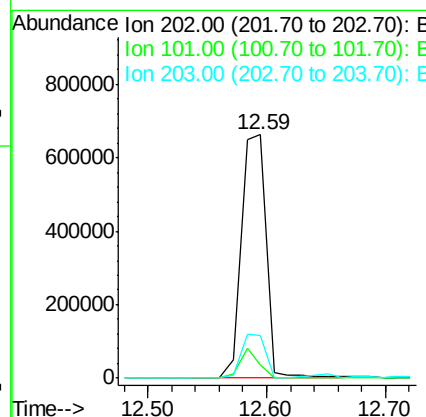
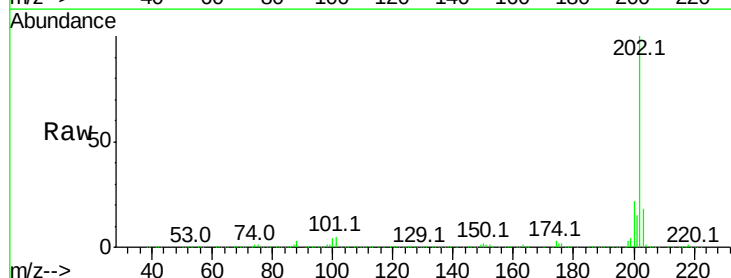
RT: 12.59 min Scan# 915

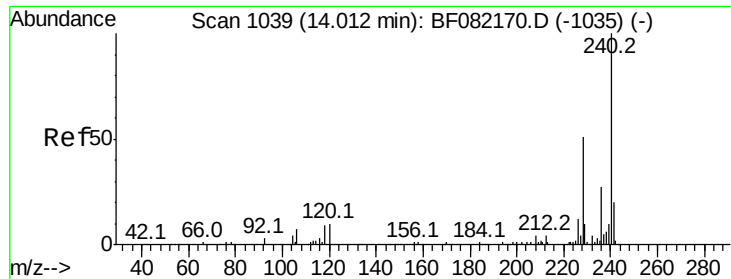
Delta R.T. 0.01 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Tgt Ion:	202	Resp:	959641
Ion Ratio	Lower	Upper	
202	100		
101	5.5	0.0	29.3
203	17.7	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.09 min Scan# 1046

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

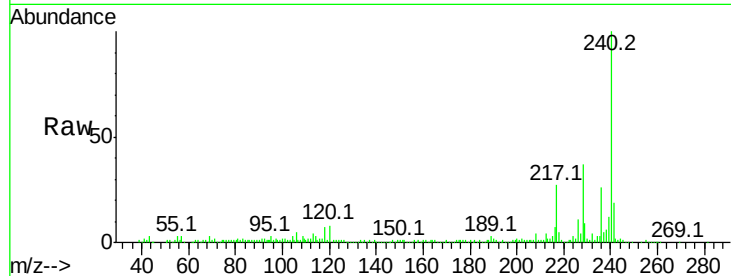
ClientSampleId :

KW-2

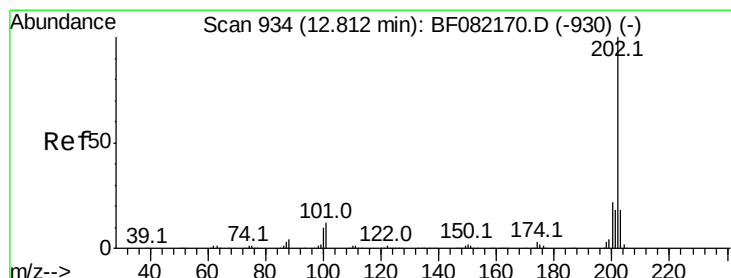
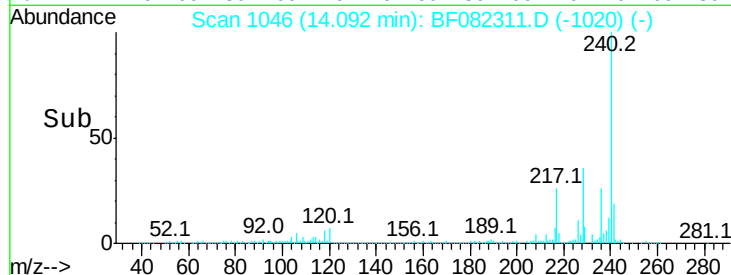
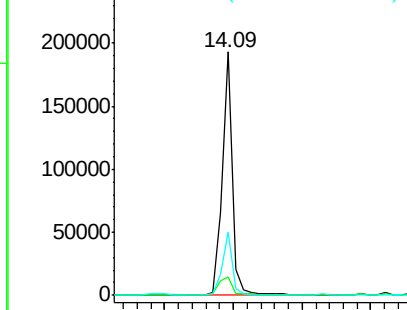
Tot Ion:	240	Resp:	204193
Ion Ratio	Lower	Upper	
240	100		
120	7.6	8.1	12.1#
236	25.8	21.3	31.9

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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: 65.74 ng

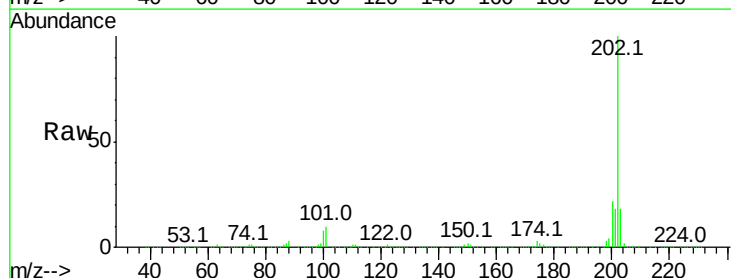
RT: 12.82 min Scan# 935

Delta R.T. 0.01 min

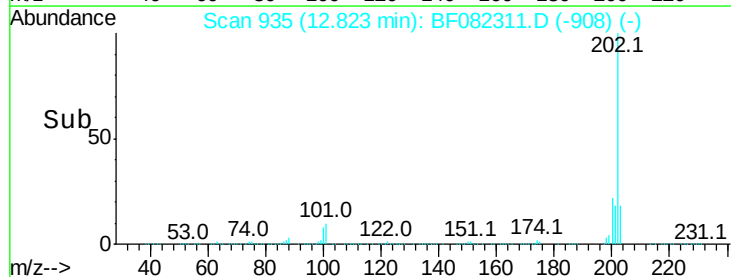
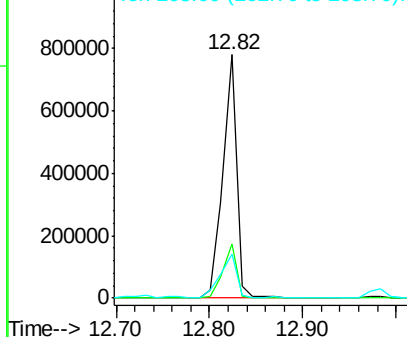
Lab File: BF082311.D

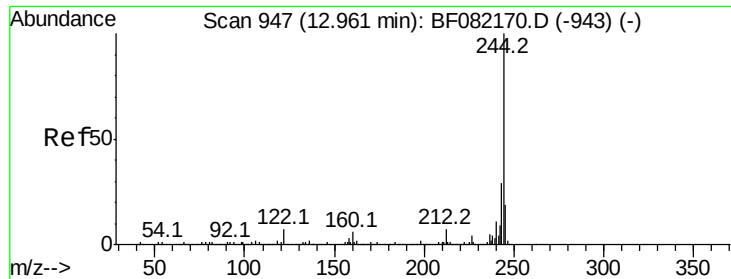
Acq: 15 Oct 2015 16:08

Tgt Ion:	202	Resp:	796624
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.9	26.9
203	17.9	14.5	21.7



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





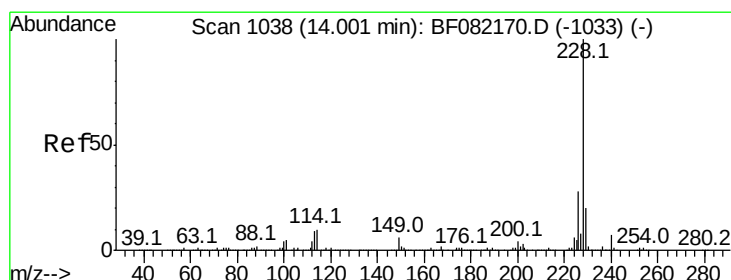
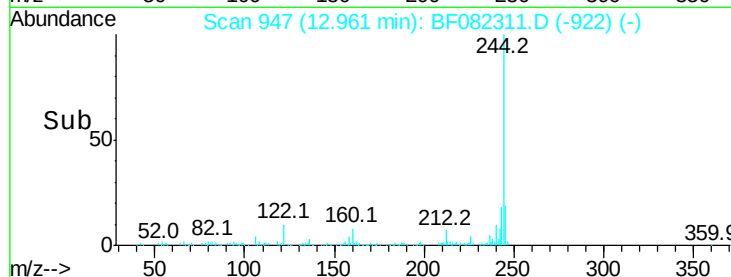
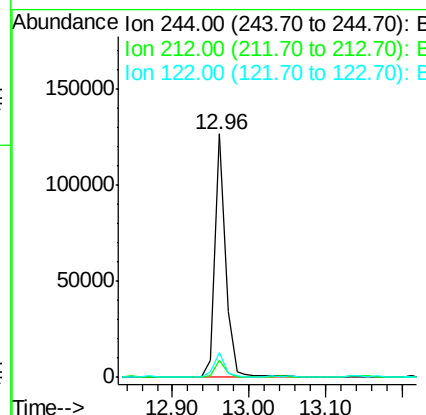
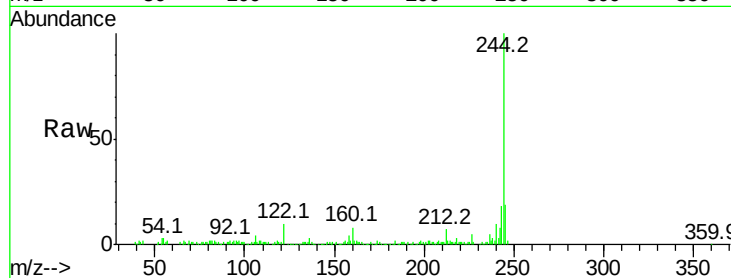
#78
 Terphenyl-d14
 Concen: 15.99 ng
 RT: 12.96 min Scan# 947
 Delta R.T. -0.01 min
 Lab File: BF082311.D
 Acq: 15 Oct 2015 16:08

Instrument :
 BNA_F
 ClientSampleId :
 KW-2

Tot Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.8	5.8	8.6
122	10.4	5.9	8.9#

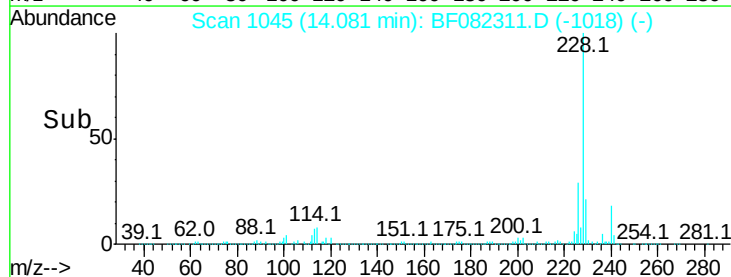
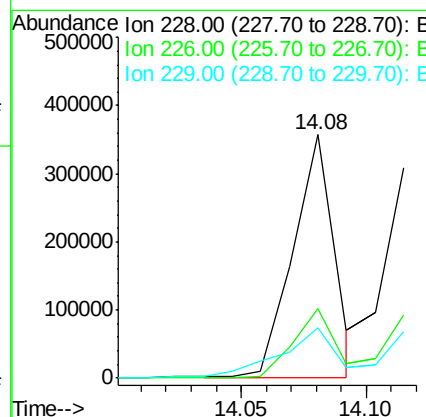
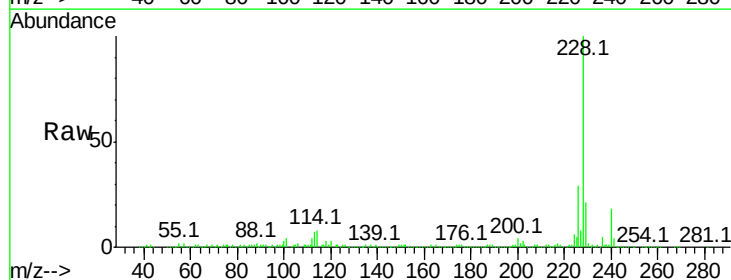
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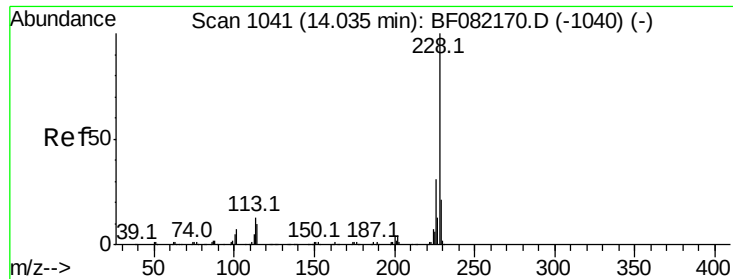
MMdadoda
 10/16/2015 4:15:51 PM



#80
 Benzo(a)anthracene
 Concen: 39.12 ng m
 RT: 14.08 min Scan# 1045
 Delta R.T. 0.01 min
 Lab File: BF082311.D
 Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.8	22.3	33.5
229	20.9	16.2	24.2





#82

Chrysene

Concen: 34.48 ng/mL

RT: 14.12 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

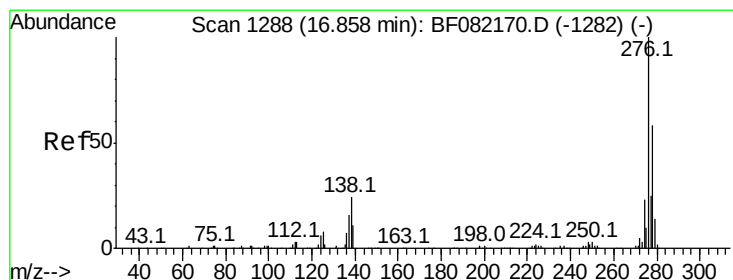
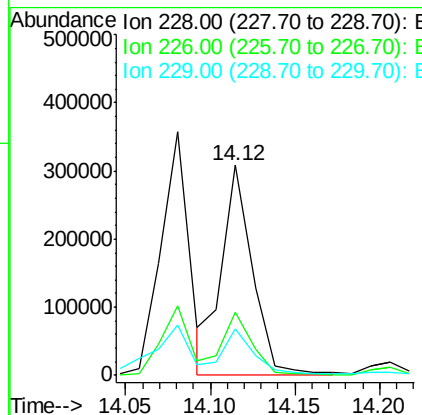
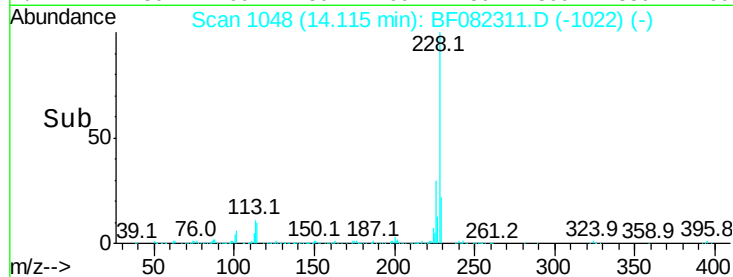
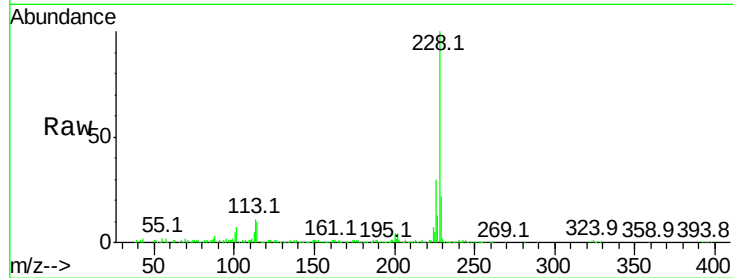
ClientSampleId :

KW-2

Tot Ion:	228	Resp:	385995
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.4	36.6
229	22.5	16.3	24.5

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#85

Indeno(1,2,3-cd)pyrene

Concen: 21.86 ng/mL

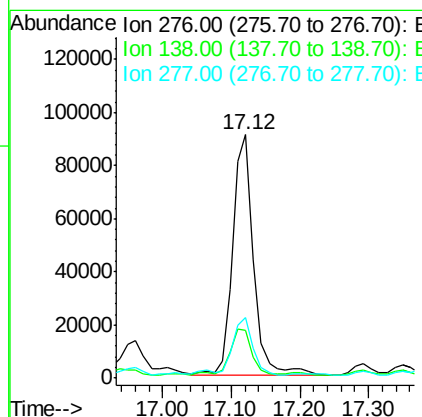
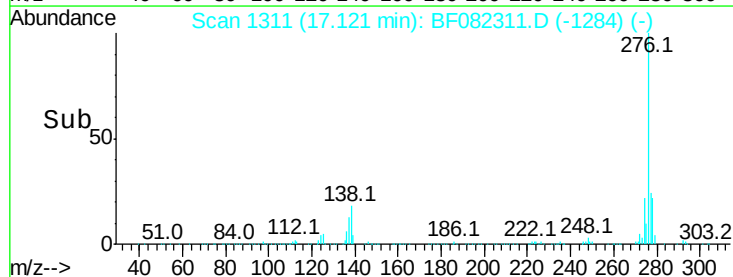
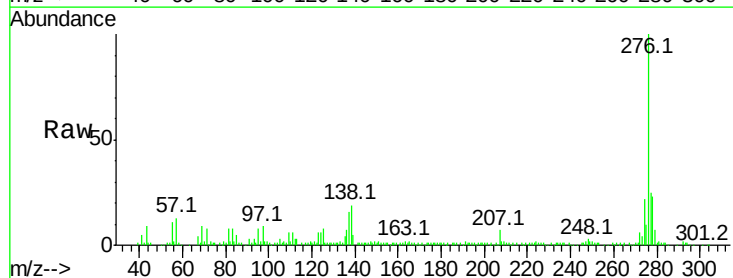
RT: 17.12 min Scan# 1311

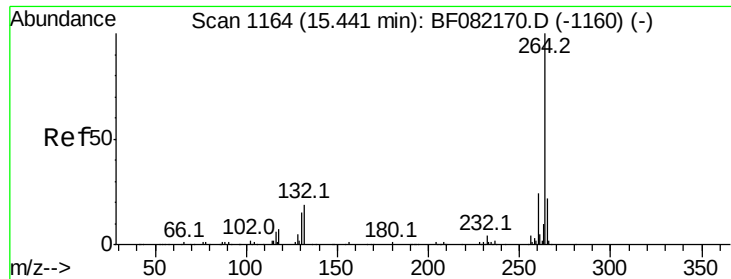
Delta R.T. 0.01 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Tgt Ion:	276	Resp:	194532
Ion Ratio	Lower	Upper	
276	100		
138	19.3	19.7	29.5#
277	24.6	20.1	30.1





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.67 min Scan# 1184

Delta R.T. 0.01 min

Lab File: BF082311.D

Acq: 15 Oct 2015 16:08

Instrument :

BNA_F

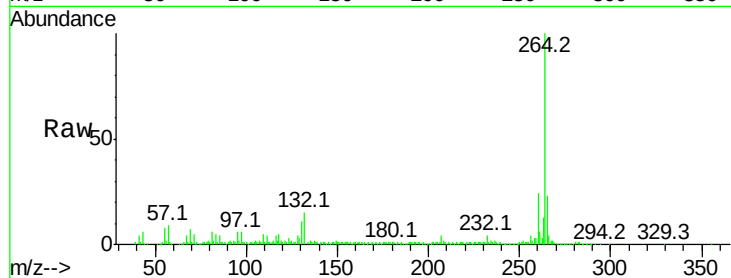
ClientSampleId :

KW-2

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	23.0	17.3	25.9

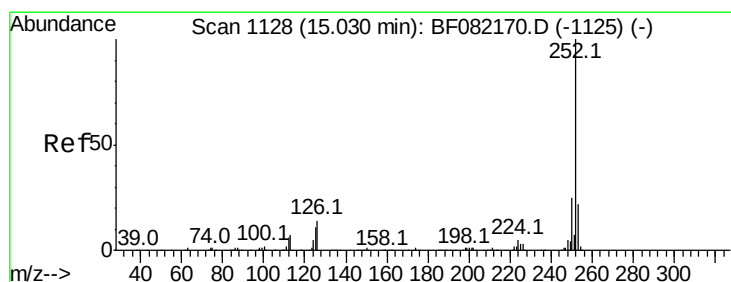
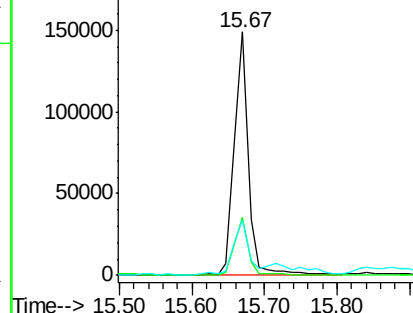
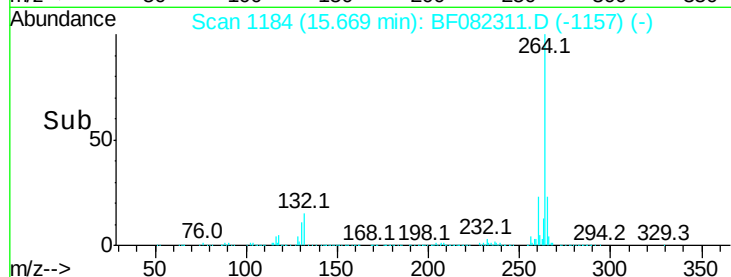
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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

15.67



#87

Benzo(b)fluoranthene

Concen: 41.64 ng m

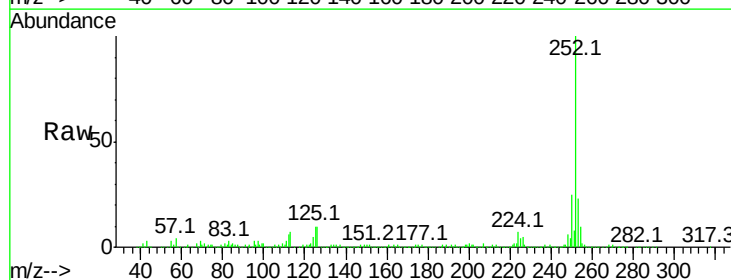
RT: 15.25 min Scan# 1147

Delta R.T. 0.01 min

Lab File: BF082311.D

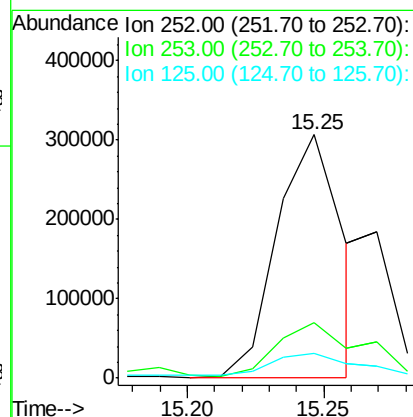
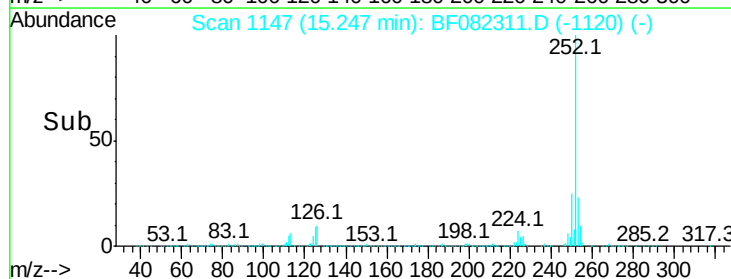
Acq: 15 Oct 2015 16:08

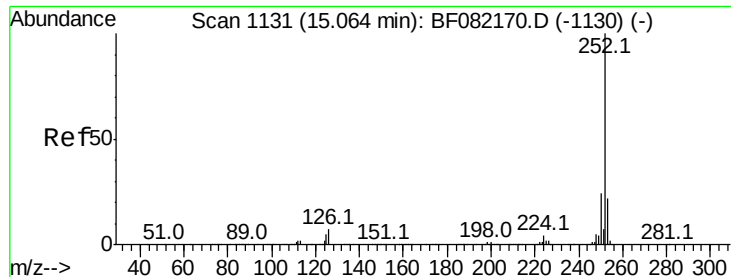
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.0	27.0
125	10.3	8.6	12.8



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

15.25





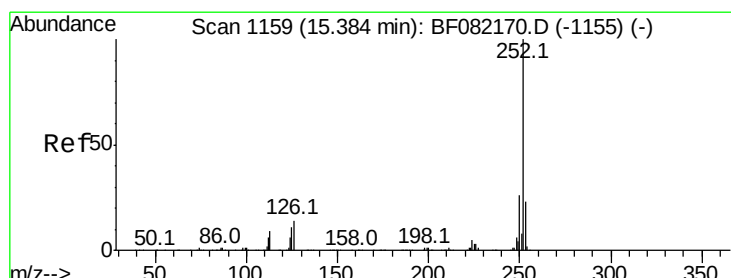
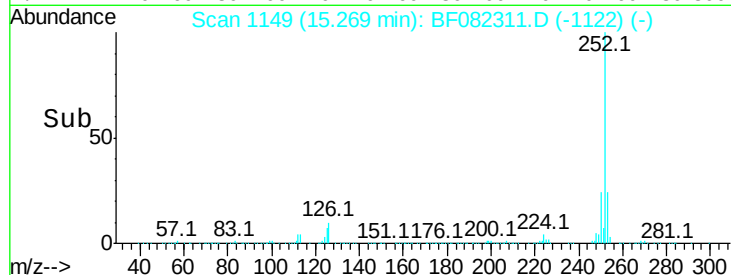
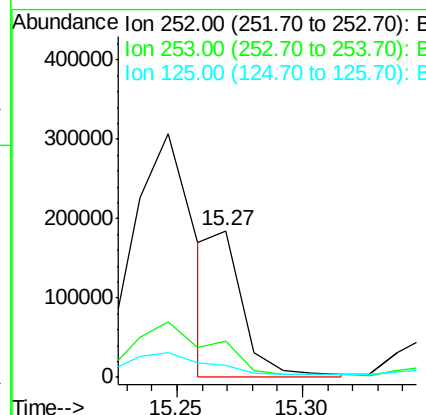
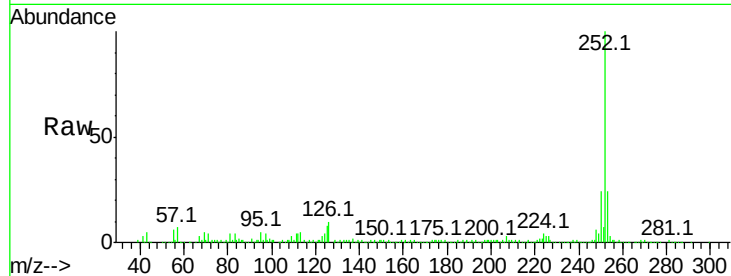
#88
Benzo(k)fluoranthene
Concen: 15.71 ng m
RT: 15.27 min Scan# 1149
Delta R.T. 0.01 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Instrument :
BNA_F
ClientSampleId :
KW-2

Tot Ion	Ratio	Resp	Lower	Upper
252	100	161473		
253	24.4	17.8	26.6	
125	8.3	6.7	10.1	

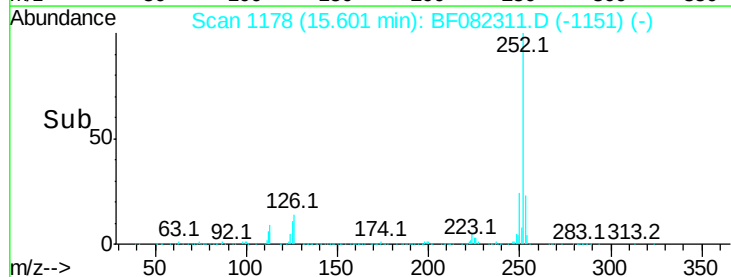
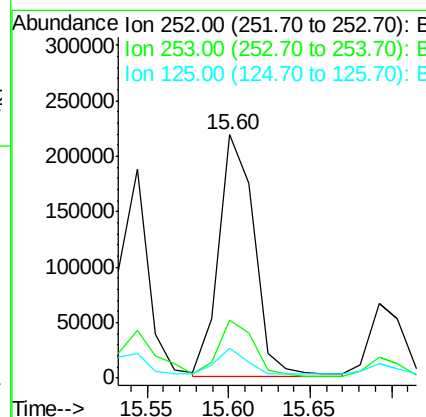
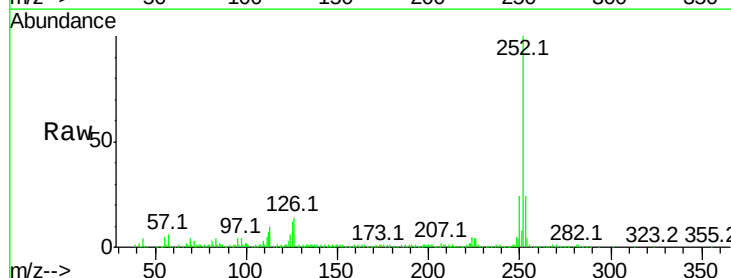
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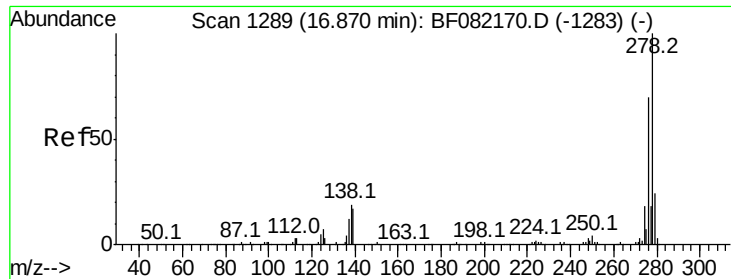
MMdadoda
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#89
Benzo(a)pyrene
Concen: 31.50 ng
RT: 15.60 min Scan# 1178
Delta R.T. 0.01 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	331115		
253	24.0	18.2	27.2	
125	12.1	8.9	13.3	





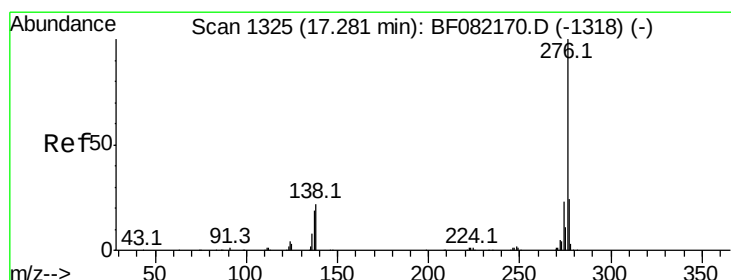
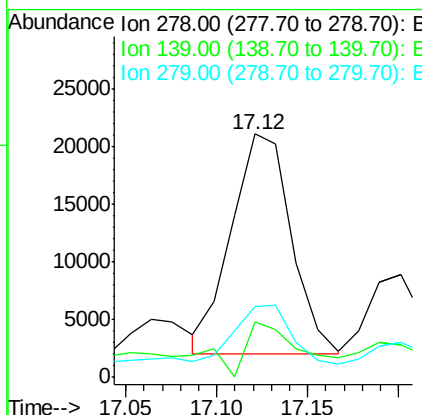
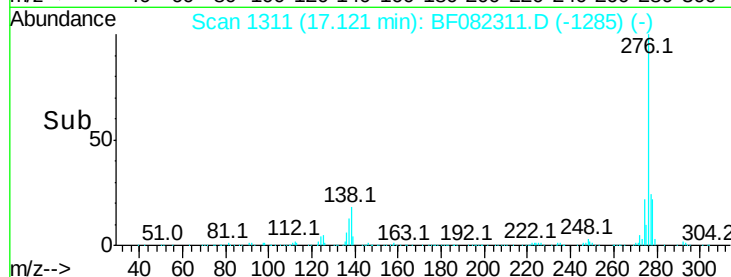
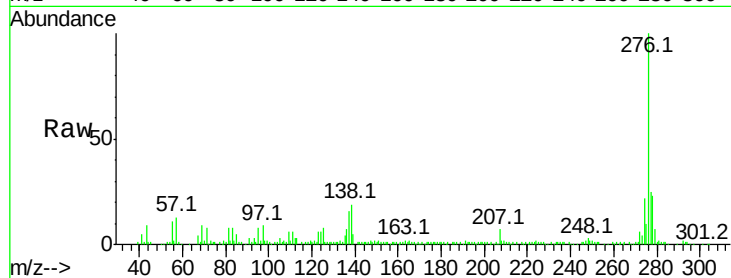
#90
Dibenzo(a,h)anthracene
Concen: 5.08 ng/mL
RT: 17.12 min Scan# 1311
Delta R.T. -0.00 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Instrument :
BNA_F
ClientSampled :
KW-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.8	13.3	19.9#
279	29.1	18.9	28.3#

Manual Integrations
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10/16/2015 4:15:51 PM



#91
Benzo(g,h,i)perylene
Concen: 19.20 ng/mL
RT: 17.56 min Scan# 1349
Delta R.T. 0.01 min
Lab File: BF082311.D
Acq: 15 Oct 2015 16:08

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.8	28.2
138	18.8	17.4	26.2

