

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086077.D
 Acq On : 5 Apr 2016 11:06
 Operator : UM/SJ
 Sample : H2180-08DL 2X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401DL

Manual Integrations
 APPROVED

Sohil
 4/5/2016 6:39:22 PM

Quant Time: Apr 05 12:51:23 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	107451	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	387082	20.00	ng	-0.02
38) Acenaphthene-d10	9.80	164	164480	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	246608	20.00	ng	-0.01
75) Chrysene-d12	13.92	240	220308	20.00	ng	-0.01
86) Perylene-d12	15.32	264	185877	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	379392	60.35	ng	-0.01
7) Phenol-d6	6.41	99	502663	62.95	ng	-0.01
23) Nitrobenzene-d5	7.33	82	273175	41.62	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	73904	47.87	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	395180	39.95	ng	-0.01
78) Terphenyl-d14	12.86	244	247240	26.38	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.06	128	128536	6.60	ng	99
37) 2-Methylnaphthalene	8.76	142	48130	3.78	ng	99
48) Acenaphthylene	9.66	152	48393	2.94	ng	93
49) Dimethylphthalate	9.52	163	43733	3.59	ng	# 96
51) Acenaphthene	9.84	154	33872	3.46	ng	96
54) Dibenzofuran	10.01	168	74456	5.76	ng	98
57) Fluorene	10.35	166	93886	8.50	ng	98
70) Phenanthrene	11.31	178	624433	46.41	ng	99
71) Anthracene	11.37	178	118988m	8.44	ng	
72) Carbazole	11.53	167	44735	3.69	ng	# 85
74) Fluoranthene	12.50	202	511734	36.57	ng	94
77) Pvrene	12.73	202	474139	30.54	ng	100
80) Benzo(a)anthracene	13.91	228	204093	15.72	ng	98
82) Chrysene	13.94	228	163720	13.09	ng	97
85) Indeno(1,2,3-cd)pyrene	16.68	276	60169	5.93	ng	98
87) Benzo(b)fluoranthene	14.93	252	187298m	16.02	ng	
88) Benzo(k)fluoranthene	14.95	252	53123m	5.13	ng	
89) Benzo(a)pyrene	15.27	252	120652	11.65	ng	98
90) Dibenzo(a,h)anthracene	16.68	278	17116	2.05	ng	# 87
91) Benzo(a,h,i)perylene	17.09	276	56223	6.97	ng	95

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

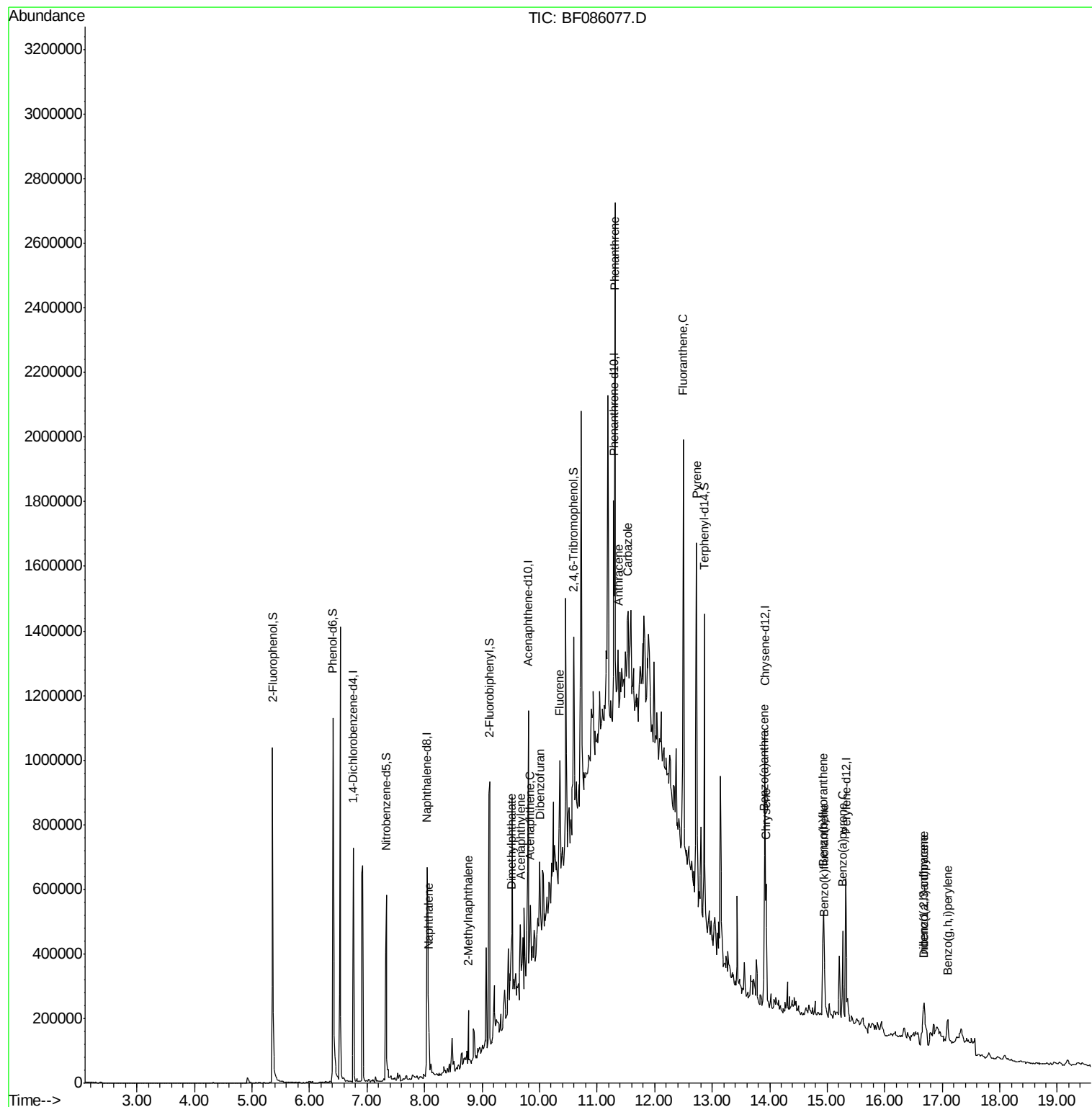
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
Data File : BF086077.D
Acq On : 5 Apr 2016 11:06
Operator : UM/SJ
Sample : H2180-08DL 2X
Misc :
ALS Vial : 41 Sample Multiplier: 1

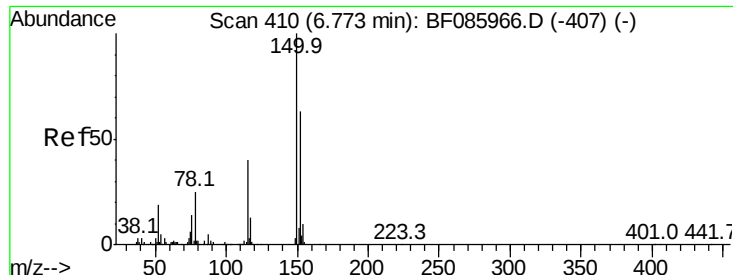
Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401DL

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM

Quant Time: Apr 05 12:51:23 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration





#1

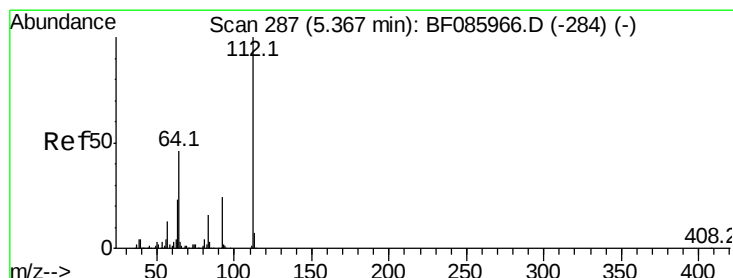
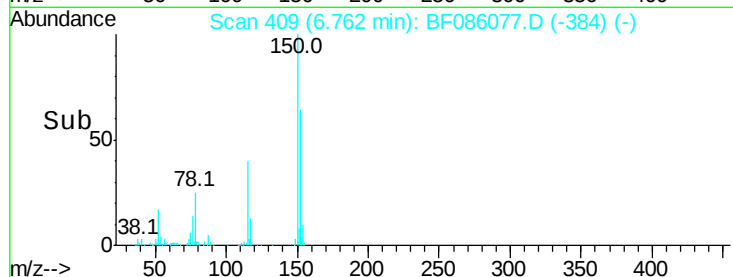
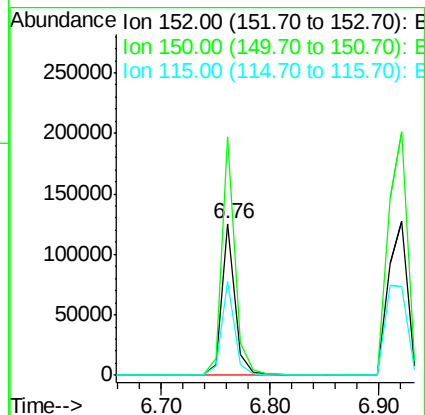
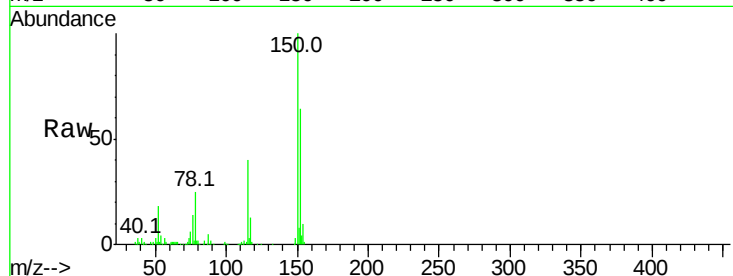
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 409
Delta R.T. -0.01 min
Lab File: BF086077.D
Acq: 5 Apr 2016 11:06

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	124.2	186.2
115	62.1	47.0	70.6

Manual Integrations
APPROVED

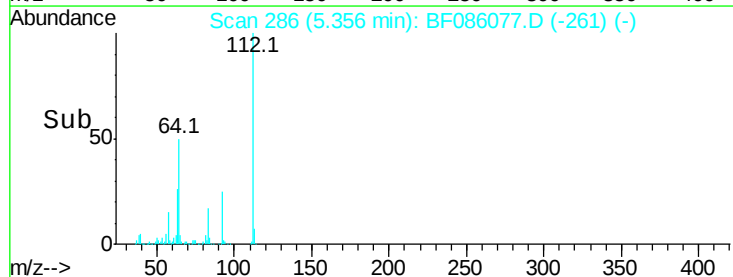
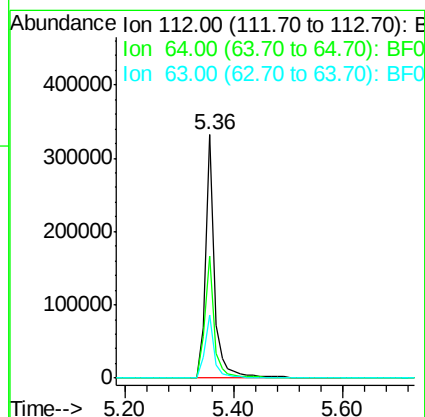
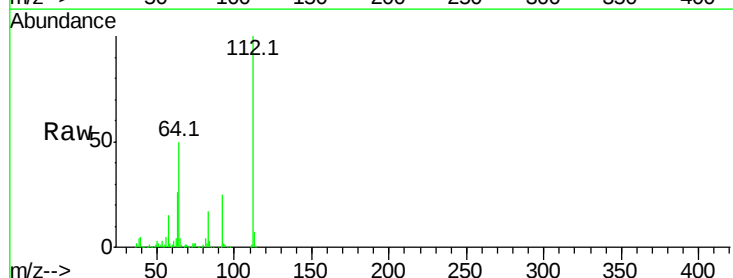
Sohil
4/5/2016 6:39:22 PM



#5

2-Fluorophenol
Concen: 60.35 ng
RT: 5.36 min Scan# 286
Delta R.T. -0.01 min
Lab File: BF086077.D
Acq: 5 Apr 2016 11:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	39.9	59.9
63	25.9	20.2	30.2





#7

Phenol-d6

Concen: 62.95 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

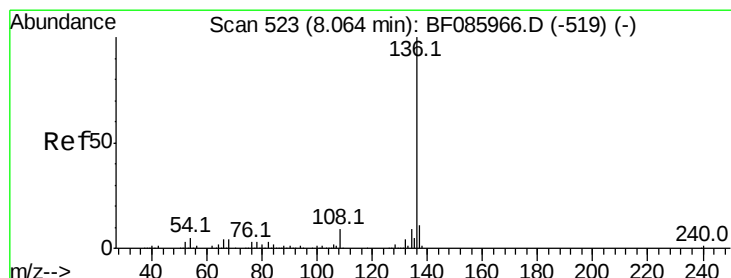
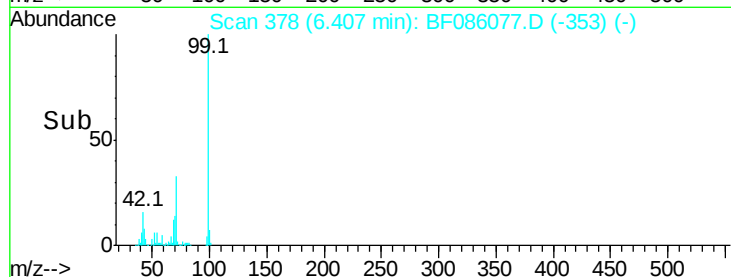
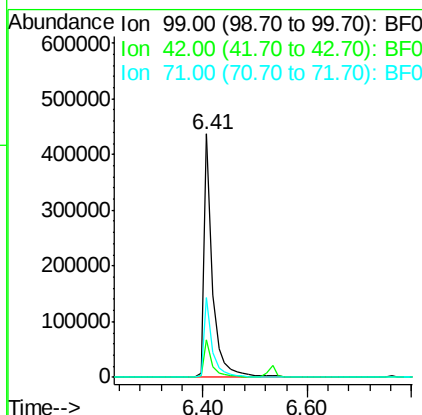
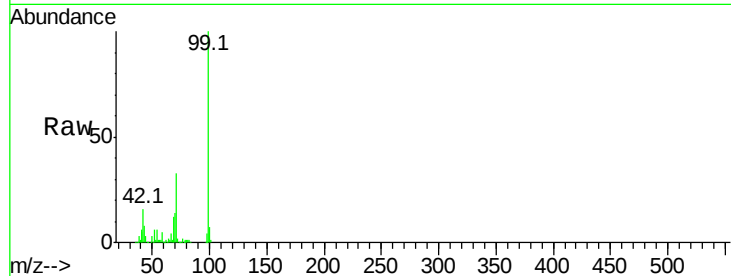
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:	99	Resp:	502663
Ion Ratio	Lower	Upper	
99	100		
42	15.6	11.1	16.7
71	32.5	24.9	37.3

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#21

Naphthalene-d8

Concen: 20.00 ng

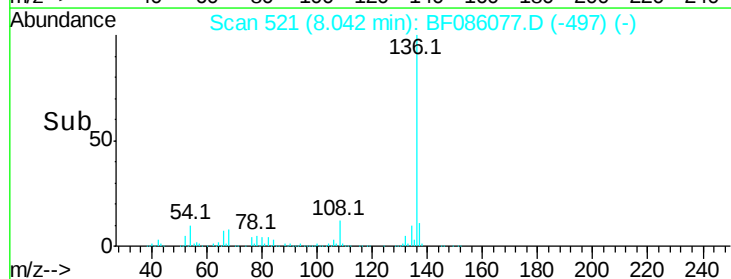
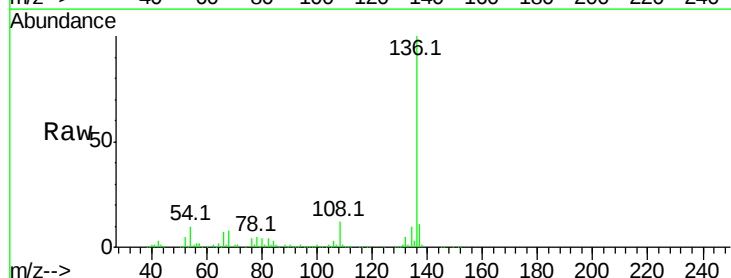
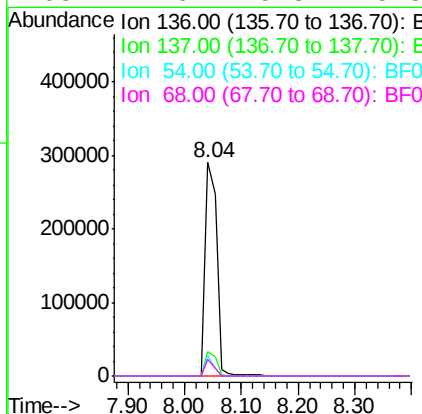
RT: 8.04 min Scan# 521

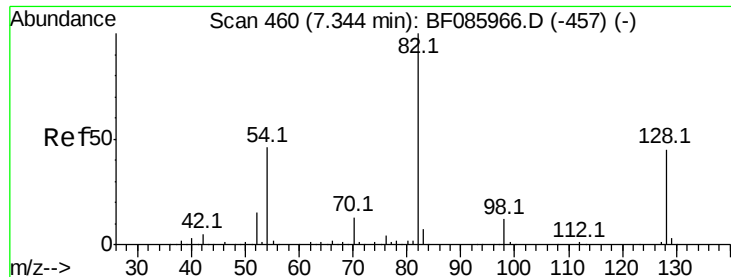
Delta R.T. -0.02 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:	136	Resp:	387082
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.1	13.7
54	9.7	7.4	11.0
68	7.6	5.8	8.8





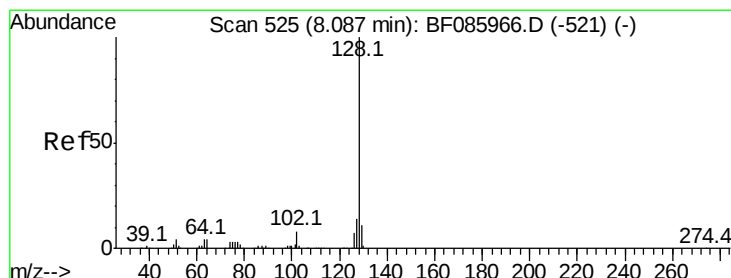
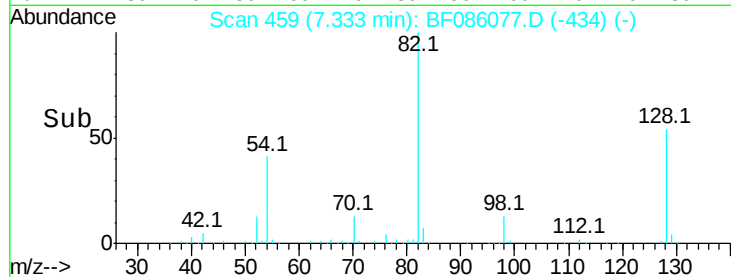
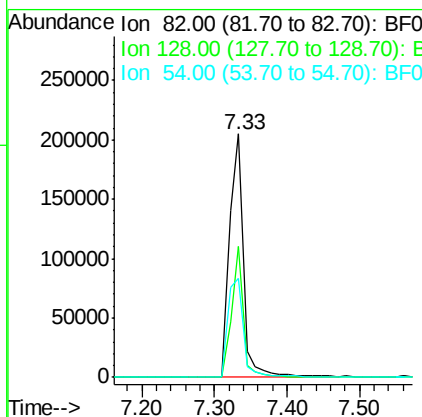
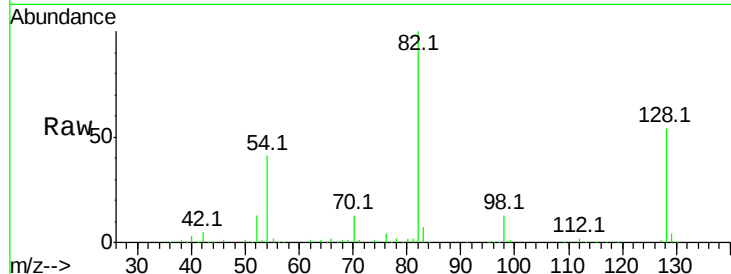
#23
 Nitrobenzene-d5
 Concen: 41.62 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: BF086077.D
 Acq: 5 Apr 2016 11:06

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	53.8	41.8	62.8	
54	40.5	33.4	50.0	

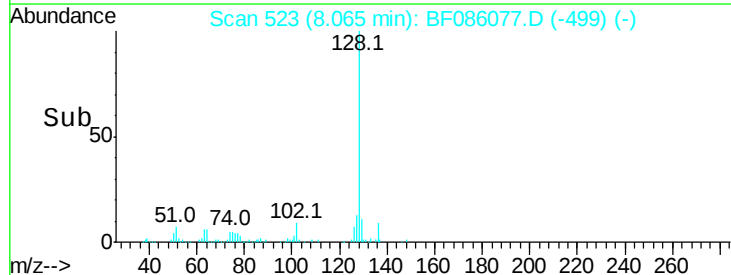
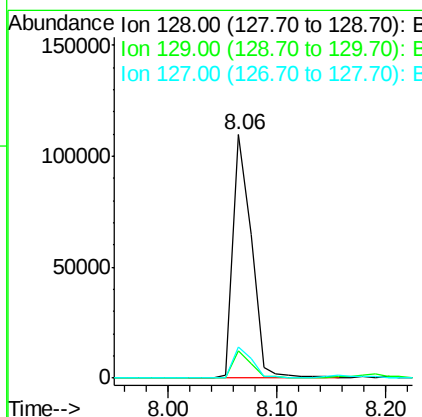
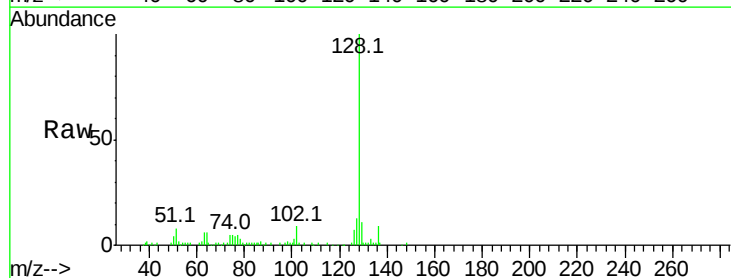
Manual Integrations
 APPROVED

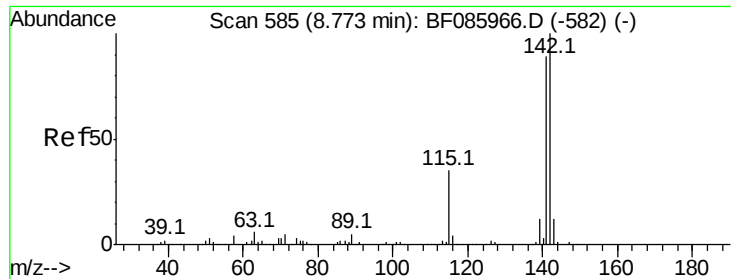
Sohil
 4/5/2016 6:39:22 PM



#31
 Naphthalene
 Concen: 6.60 ng
 RT: 8.06 min Scan# 523
 Delta R.T. -0.02 min
 Lab File: BF086077.D
 Acq: 5 Apr 2016 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.4	9.4	14.0	
127	13.0	11.0	16.6	





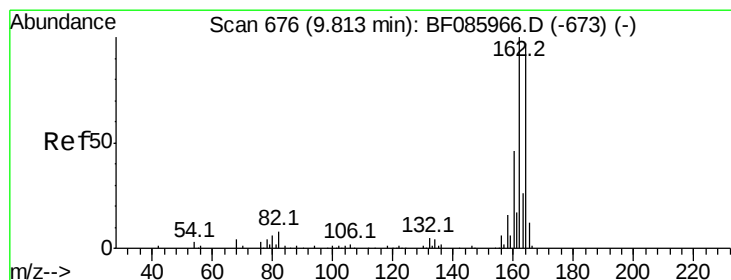
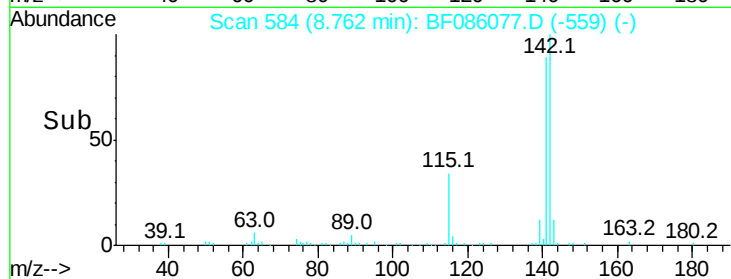
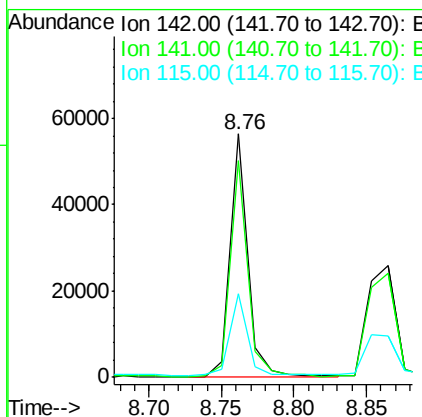
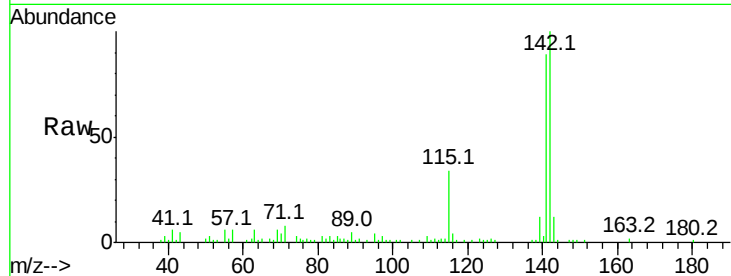
#37
2-Methylnaphthalene
Concen: 3.78 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF086077.D
Acq: 5 Apr 2016 11:06

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.6	107.4
115	34.1	26.8	40.2

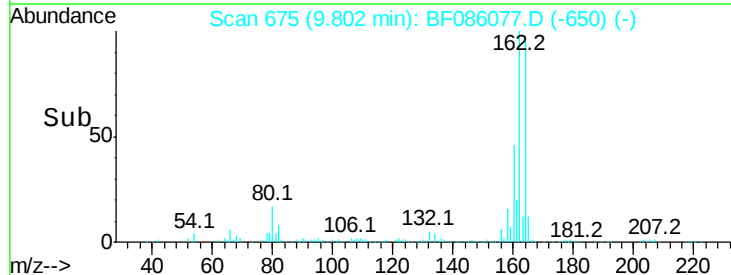
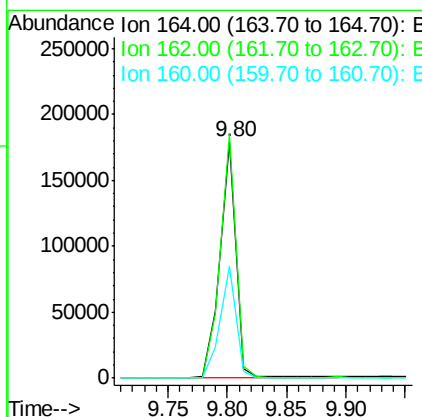
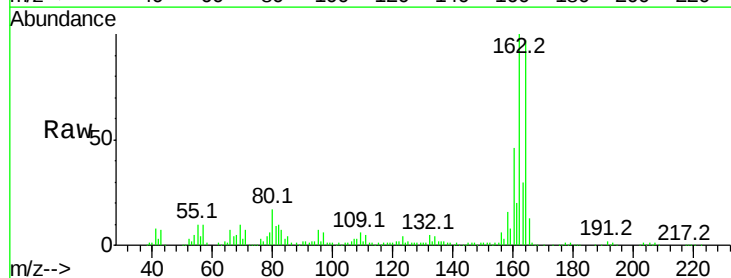
Manual Integrations
APPROVED

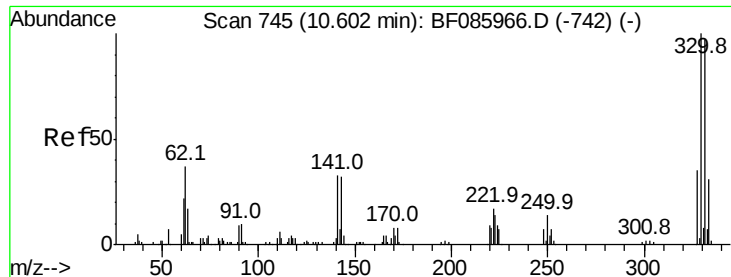
Sohil
4/5/2016 6:39:22 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086077.D
Acq: 5 Apr 2016 11:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	82.1	123.1
160	47.4	37.4	56.2





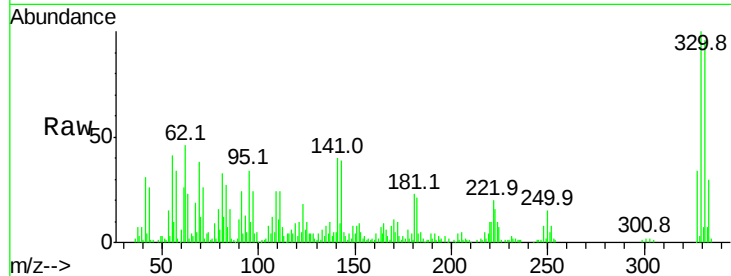
#41
 2,4,6-Tribromophenol
 Concen: 47.87 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF086077.D
 Acq: 5 Apr 2016 11:06

Instrument :
 BNA_F
 ClientSampleId :
 TK2-DUP-20160401DL

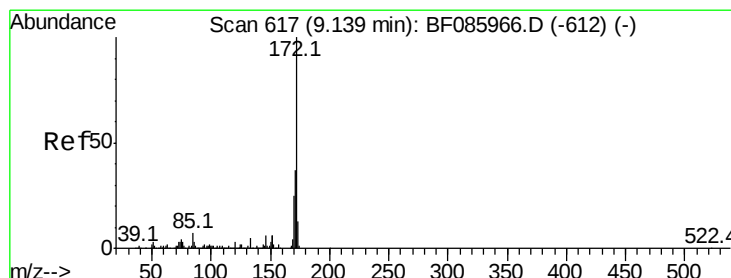
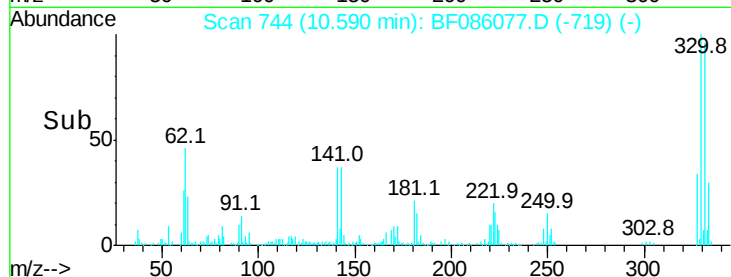
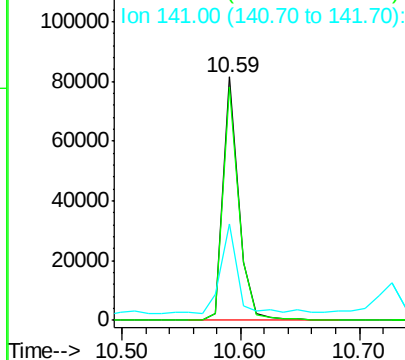
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.2	117.2
141	41.6	31.5	47.3

Manual Integrations
 APPROVED

Sohil
 4/5/2016 6:39:22 PM

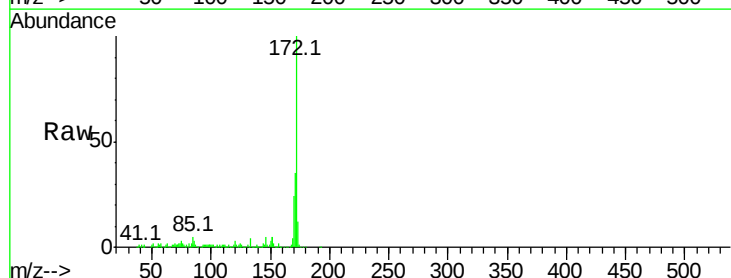


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

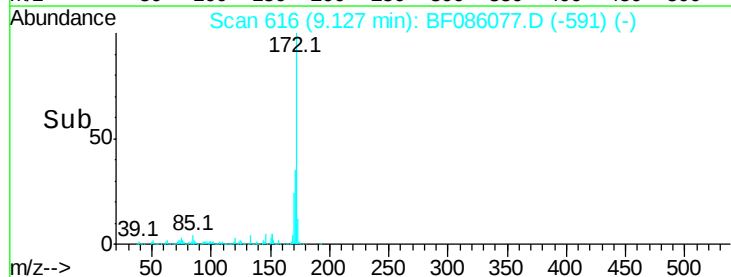
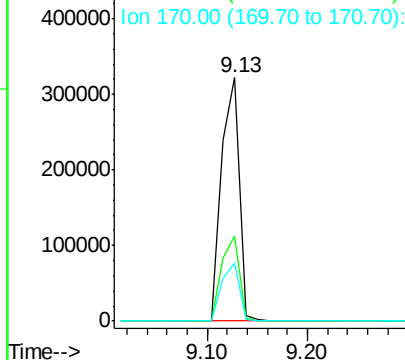


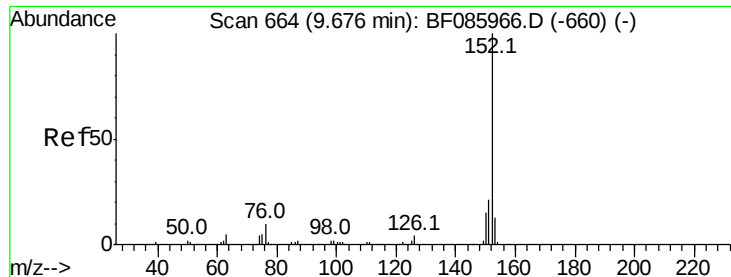
#44
 2-Fluorobiphenyl
 Concen: 39.95 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF086077.D
 Acq: 5 Apr 2016 11:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.4	44.2
170	23.6	19.8	29.6



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: 2.94 ng

RT: 9.66 min Scan# 663

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

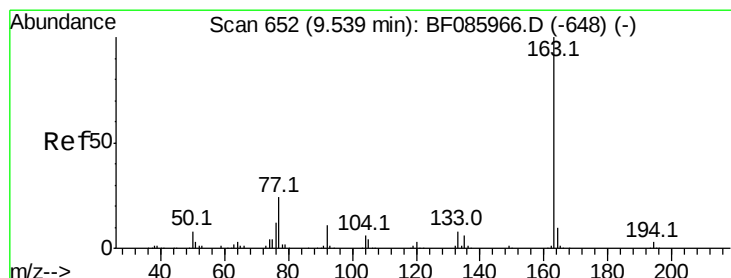
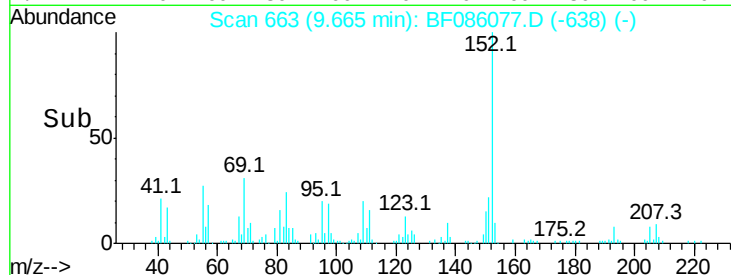
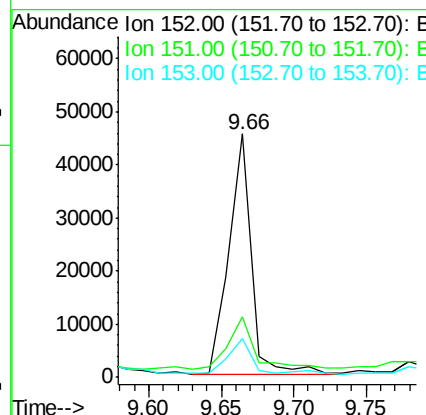
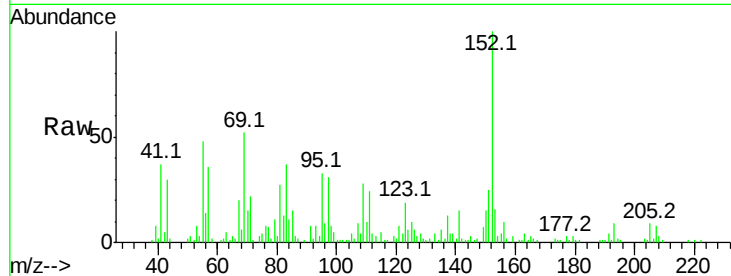
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:	152	Resp:	48393
Ion Ratio	Lower	Upper	
152	100		
151	24.9	16.8	25.2
153	15.9	10.9	16.3

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#49

Dimethylphthalate

Concen: 3.59 ng

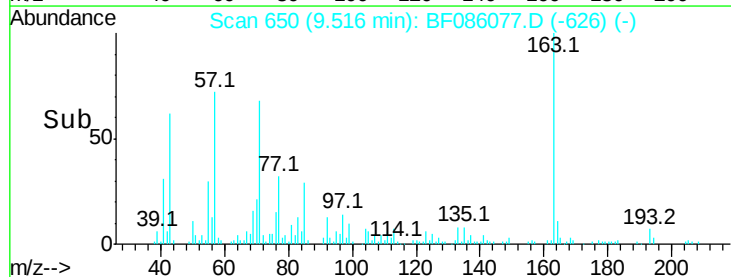
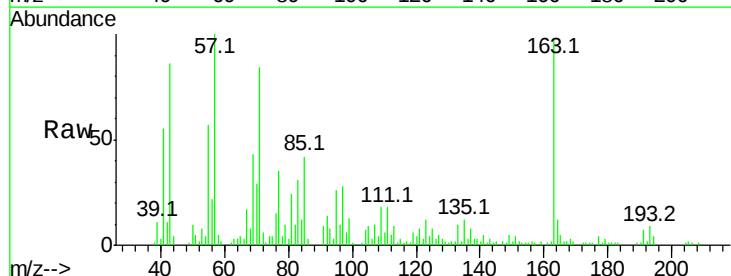
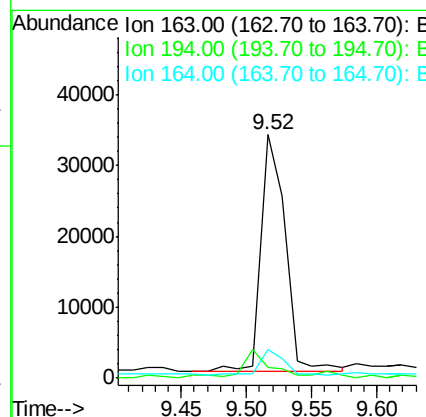
RT: 9.52 min Scan# 650

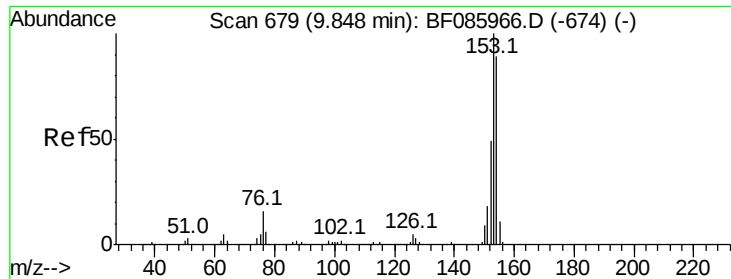
Delta R.T. -0.02 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:	163	Resp:	43733
Ion Ratio	Lower	Upper	
163	100		
194	4.6	2.9	4.3#
164	11.9	8.3	12.5





#51

Acenaphthene

Concen: 3.46 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF086077.D

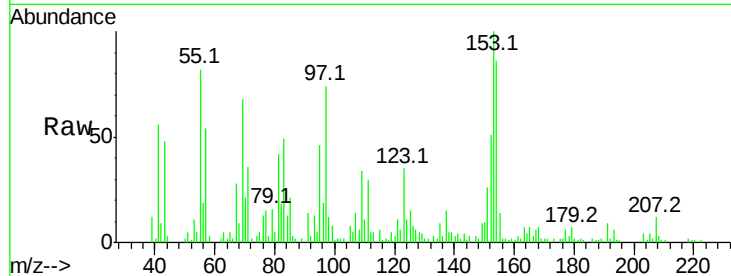
Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

ClientSampleId :

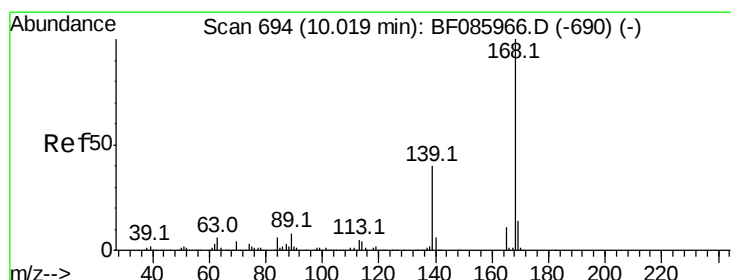
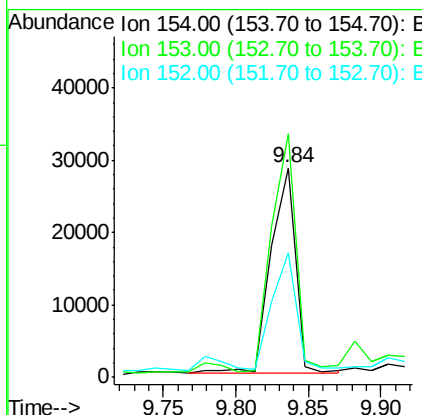
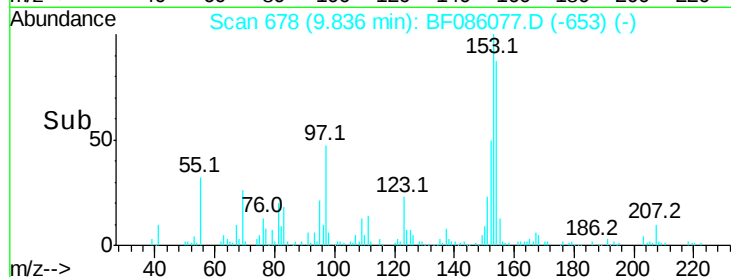
TK2-DUP-20160401DL



Tot Ion:	154	Resp:	33872
Ion Ratio	Lower	Upper	
154	100		
153	116.1	90.1	135.1
152	59.3	44.2	66.2

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#54

Dibenzofuran

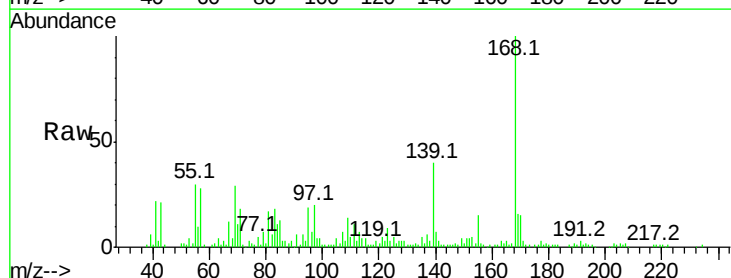
Concen: 5.76 ng

RT: 10.01 min Scan# 693

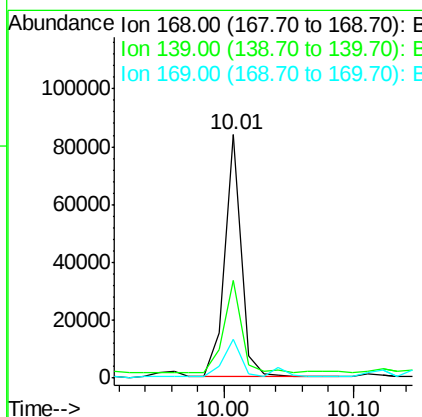
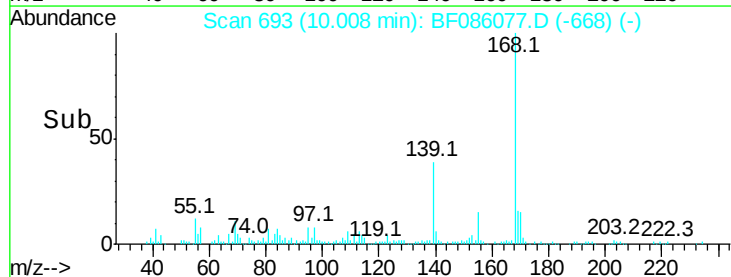
Delta R.T. -0.01 min

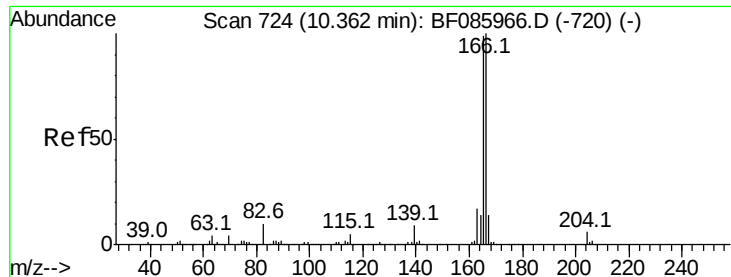
Lab File: BF086077.D

Acq: 5 Apr 2016 11:06



Tgt Ion:	168	Resp:	74456
Ion Ratio	Lower	Upper	
168	100		
139	40.2	31.9	47.9
169	15.8	11.0	16.6





#57

Fluorene

Concen: 8.50 ng

RT: 10.35 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

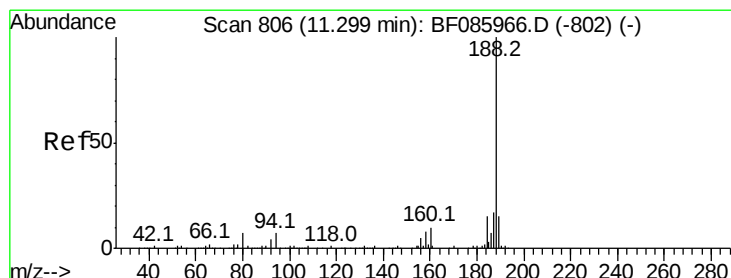
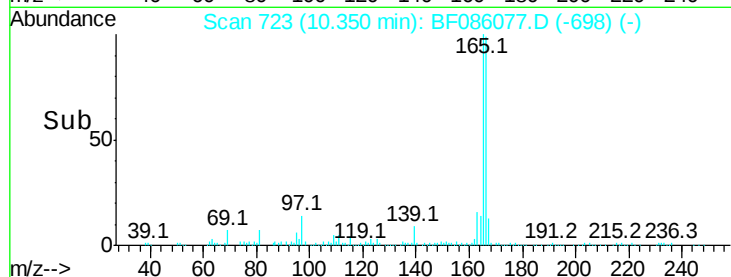
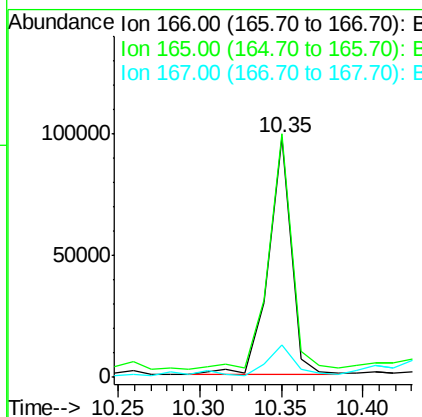
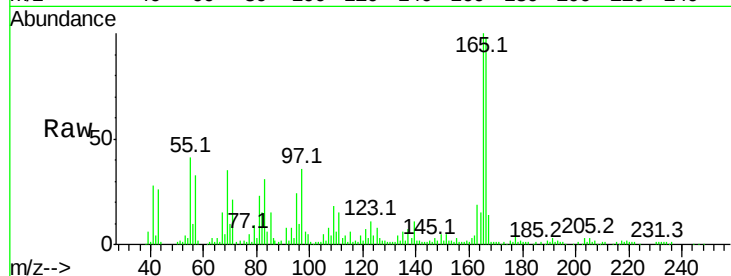
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:166	Resp:	93886
Ion Ratio	Lower	Upper
166	100	
165	101.8	79.4 119.0
167	13.8	11.0 16.4

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

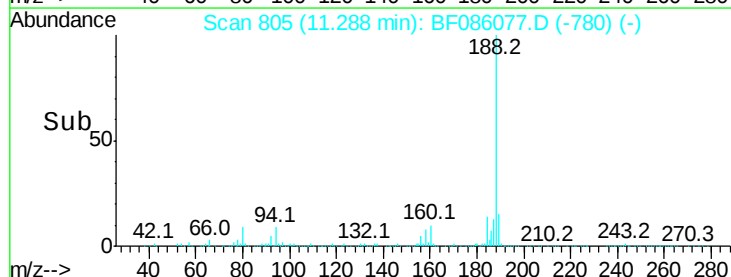
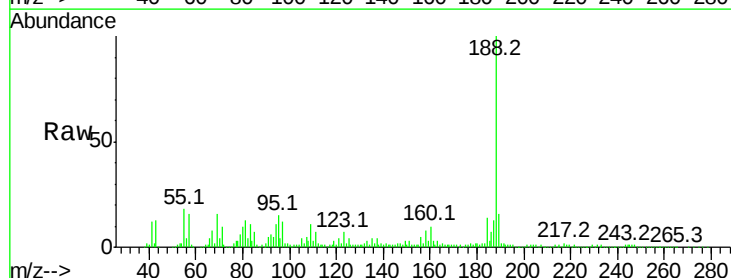
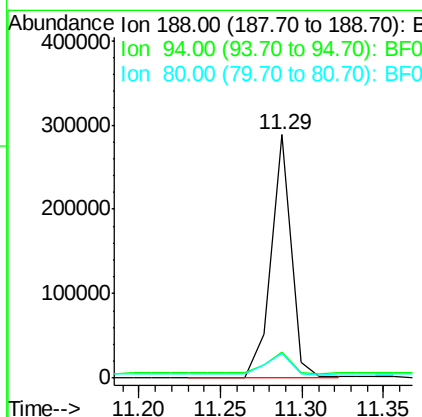
RT: 11.29 min Scan# 805

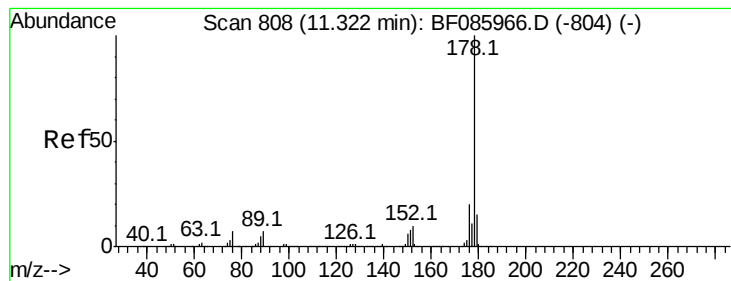
Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:188	Resp:	246608
Ion Ratio	Lower	Upper
188	100	
94	10.8	5.4 8.0#
80	10.4	5.5 8.3#





#70

Phenanthrene

Concen: 46.41 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

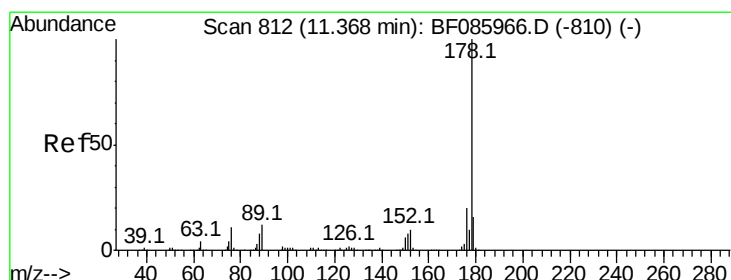
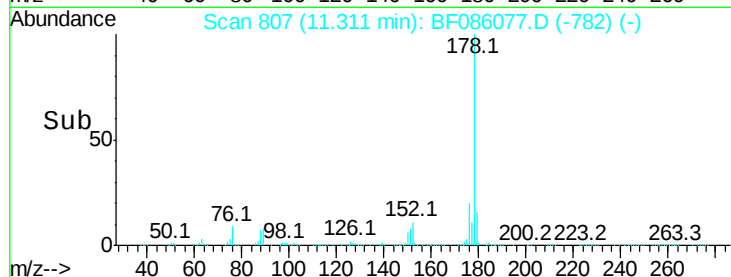
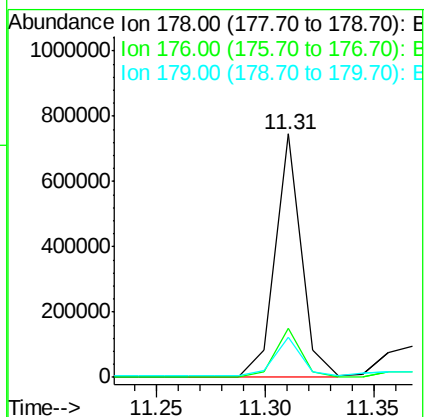
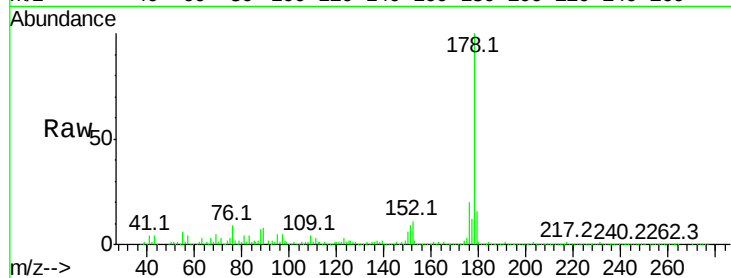
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:	178	Resp:	624433
Ion Ratio	Lower	Upper	
178	100		
176	20.0	16.3	24.5
179	16.3	12.6	18.8

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#71

Anthracene

Concen: 8.44 ng m

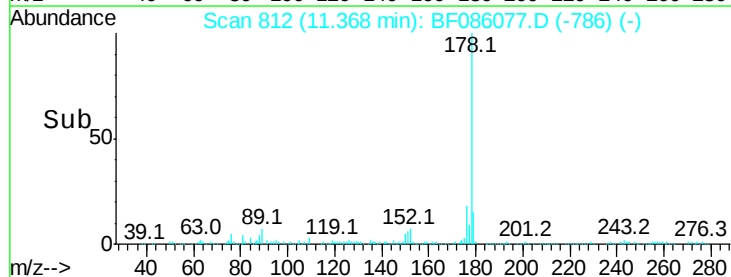
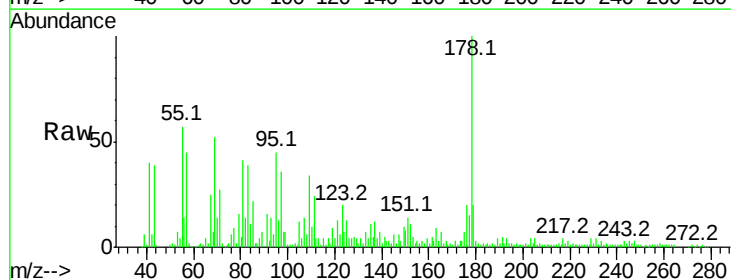
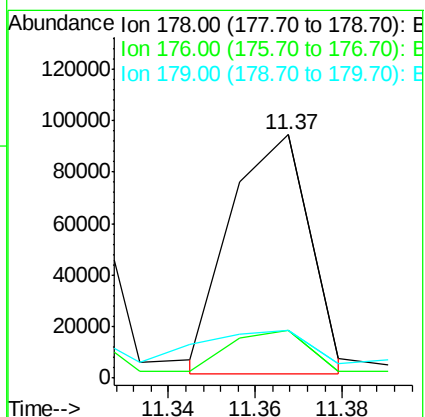
RT: 11.37 min Scan# 812

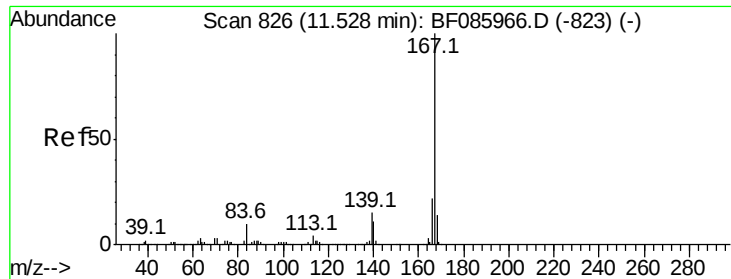
Delta R.T. 0.00 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:	178	Resp:	118988
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.9	23.9
179	19.7	13.0	19.4#





#72

Carbazole

Concen: 3.69 ng

RT: 11.53 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

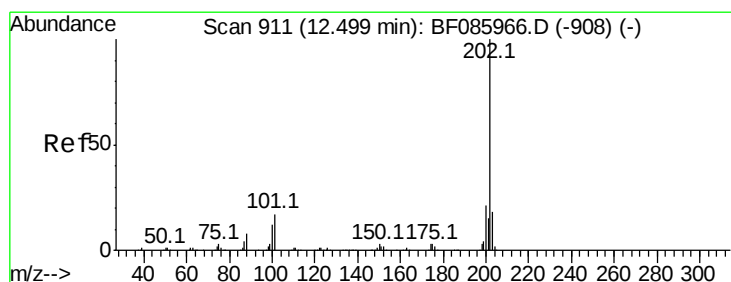
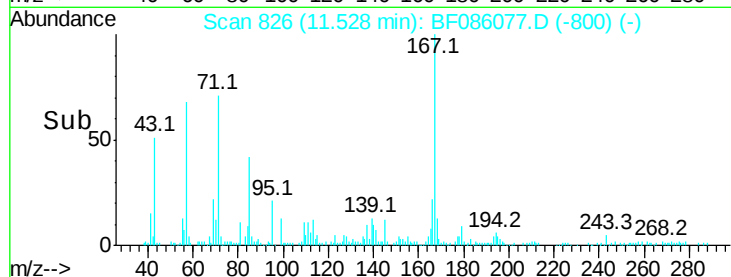
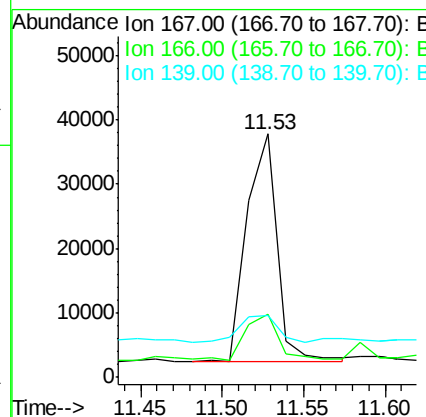
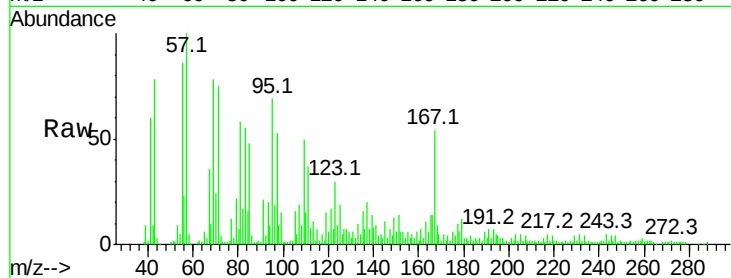
ClientSampleId :

TK2-DUP-20160401DL

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM

Tot Ion:167	Resp:	44735
Ion Ratio	Lower	Upper
167 100		
166 26.1	17.8	26.8
139 25.3	11.6	17.4



#74

Fluoranthene

Concen: 36.57 ng

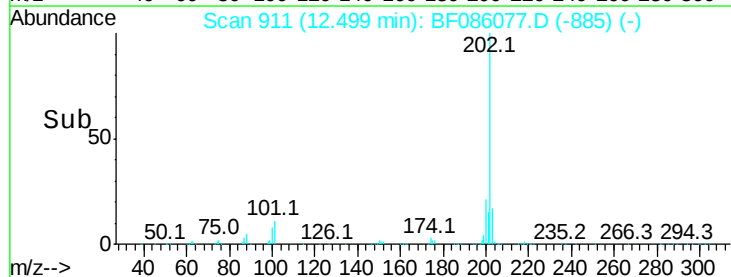
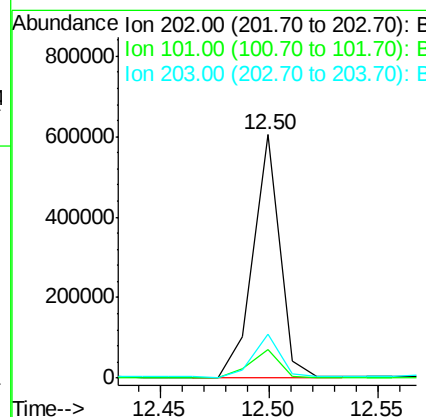
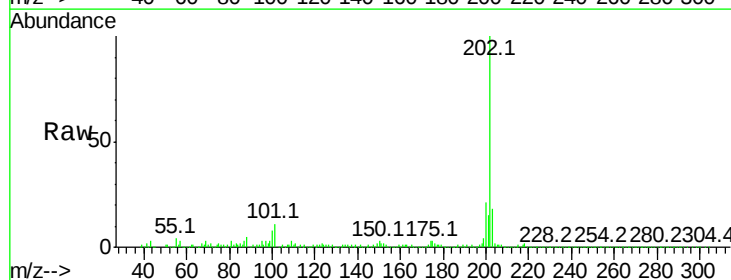
RT: 12.50 min Scan# 911

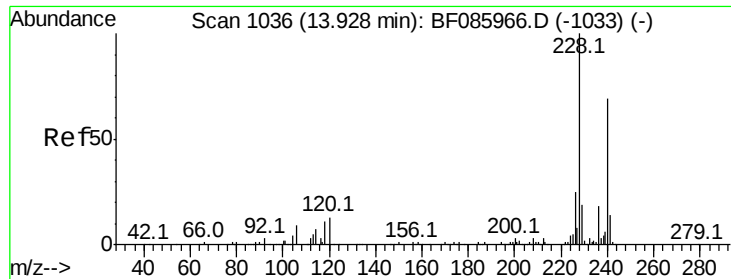
Delta R.T. 0.00 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:202	Resp:	511734
Ion Ratio	Lower	Upper
202 100		
101 11.5	0.0	36.6
203 17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

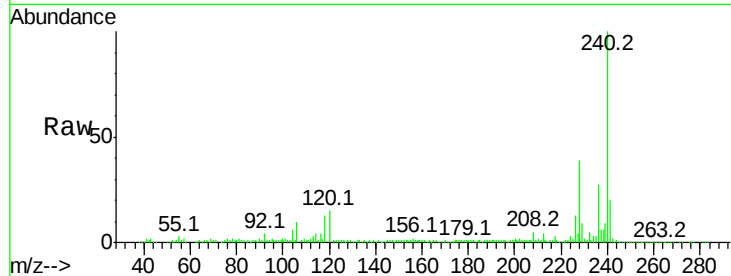
ClientSampleId :

TK2-DUP-20160401DL

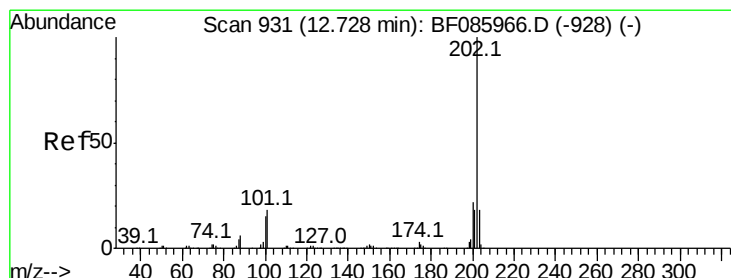
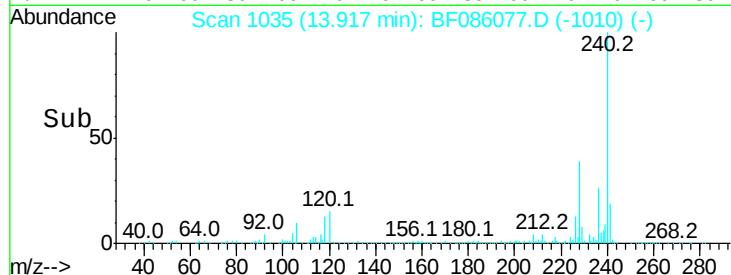
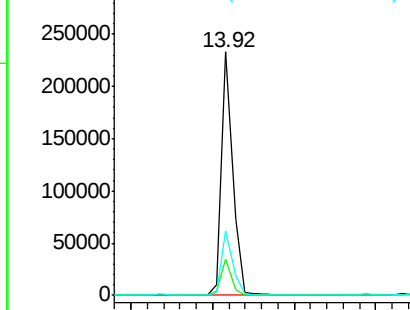
Tot Ion:	240	Resp:	220308
Ion Ratio	Lower	Upper	
240	100		
120	14.9	13.8	20.8
236	26.7	20.6	30.8

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



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: 30.54 ng

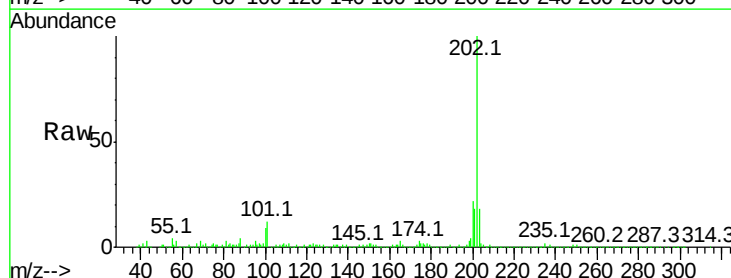
RT: 12.73 min Scan# 931

Delta R.T. 0.00 min

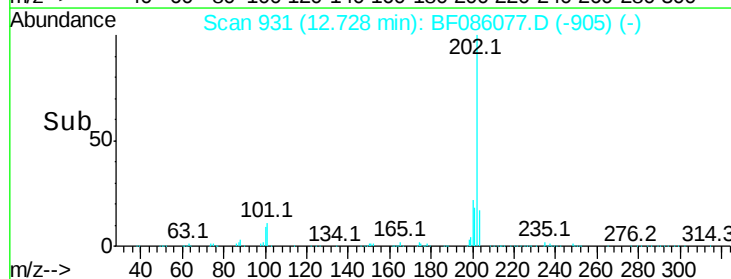
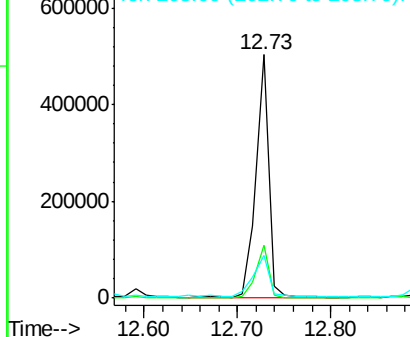
Lab File: BF086077.D

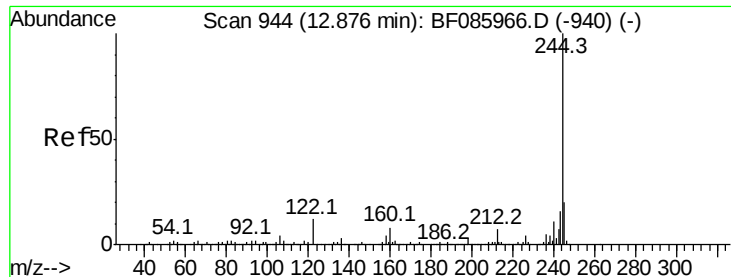
Acq: 5 Apr 2016 11:06

Tgt Ion:	202	Resp:	474139
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.6	26.4
203	17.6	14.0	21.0



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: 26.38 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

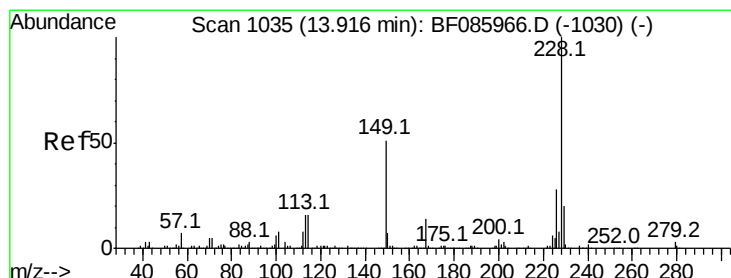
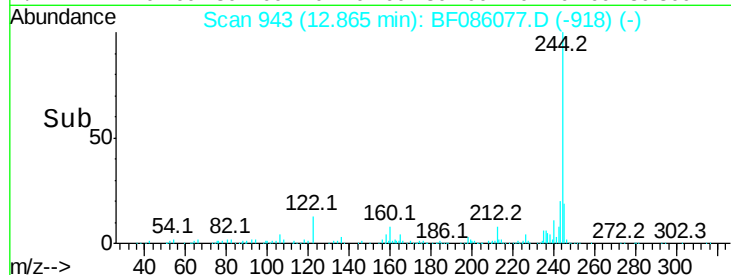
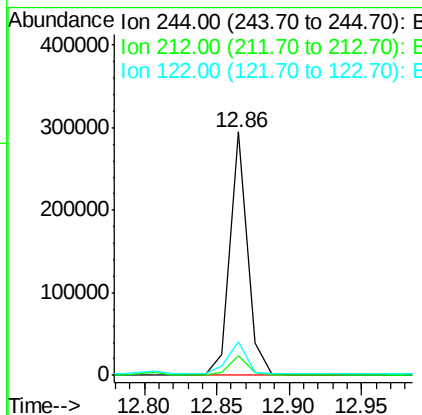
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:	244	Resp:	247240
Ion Ratio		Lower	Upper
244	100		
212	8.1	6.1	9.1
122	14.0	10.2	15.4

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#80

Benzo(a)anthracene

Concen: 15.72 ng

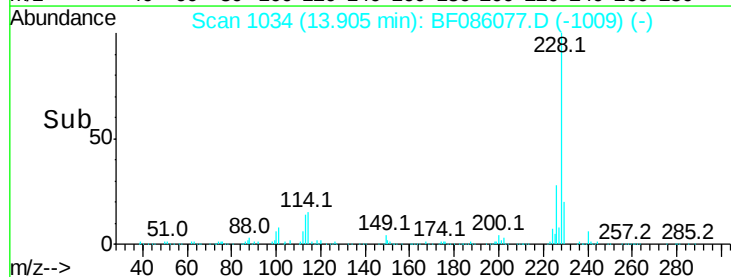
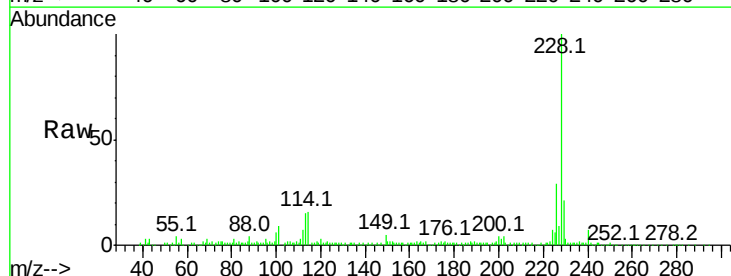
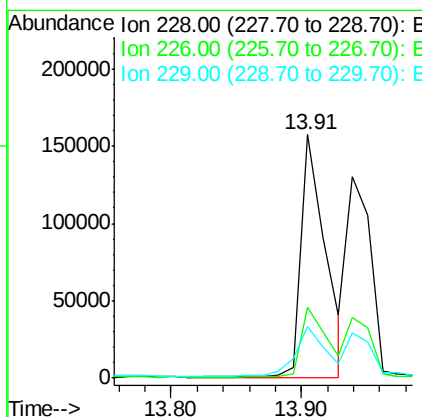
RT: 13.91 min Scan# 1034

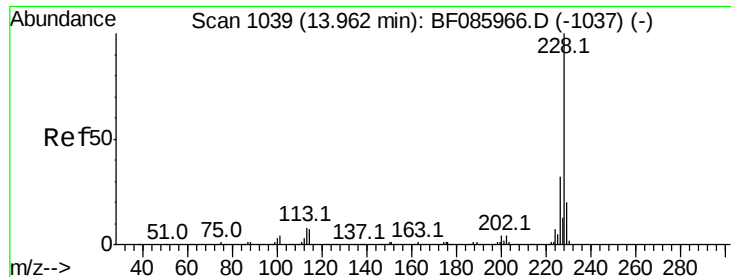
Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:	228	Resp:	204093
Ion Ratio		Lower	Upper
228	100		
226	28.9	22.1	33.1
229	21.2	16.2	24.4





#82

Chrysene

Concen: 13.09 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.02 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

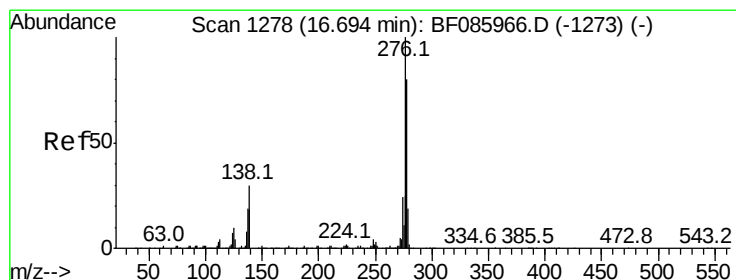
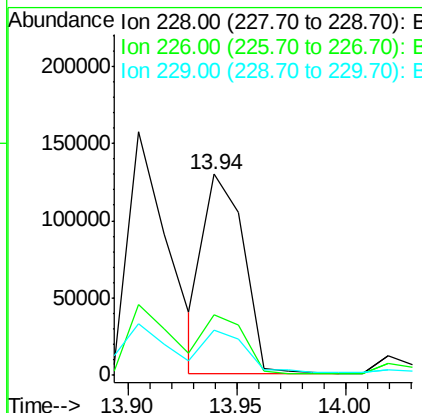
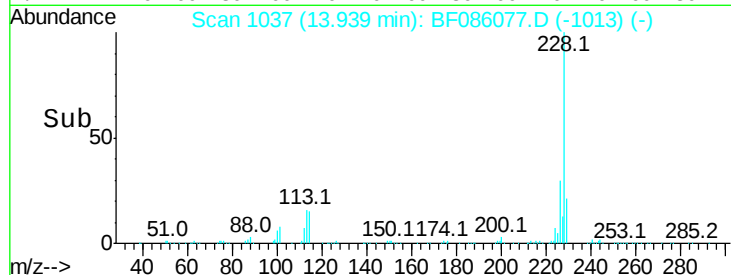
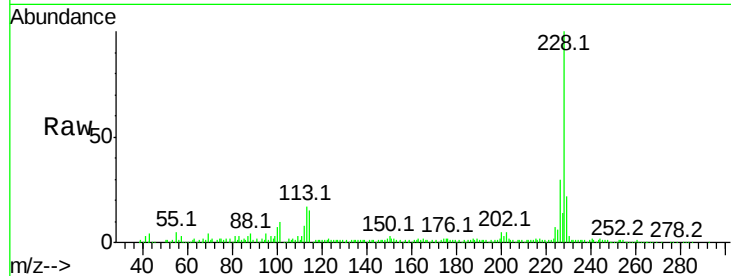
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:	228	Resp:	163720
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.0	37.6
229	22.4	15.7	23.5

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.93 ng

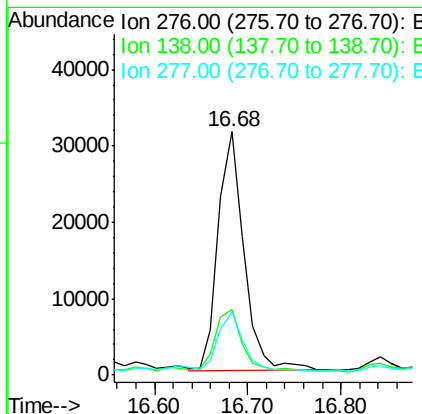
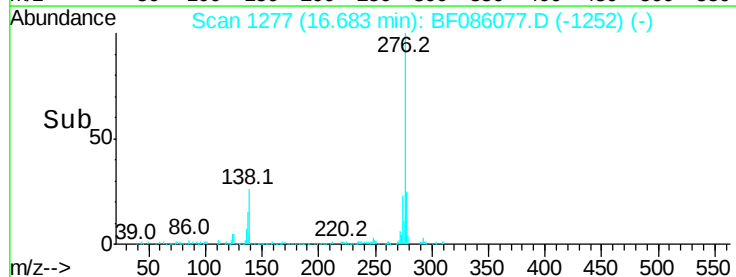
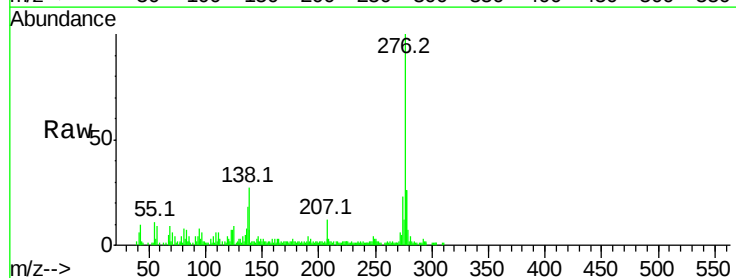
RT: 16.68 min Scan# 1277

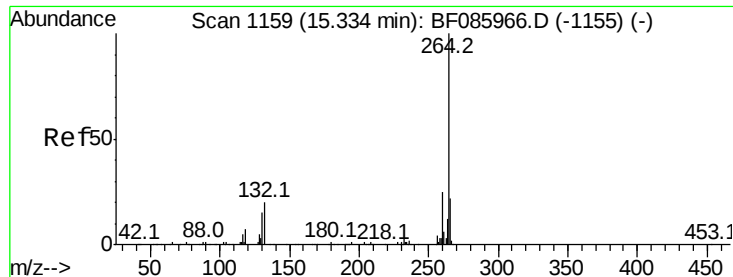
Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:	276	Resp:	60169
Ion Ratio	Lower	Upper	
276	100		
138	30.4	24.2	36.4
277	27.3	20.0	30.0





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.32 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

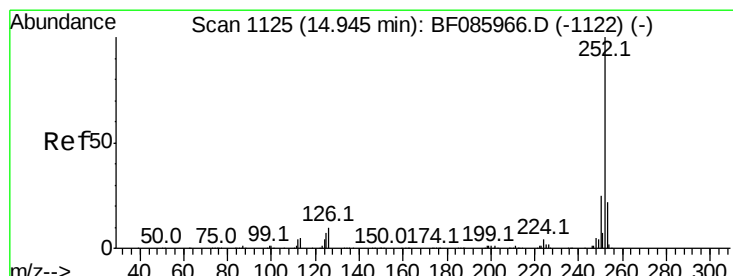
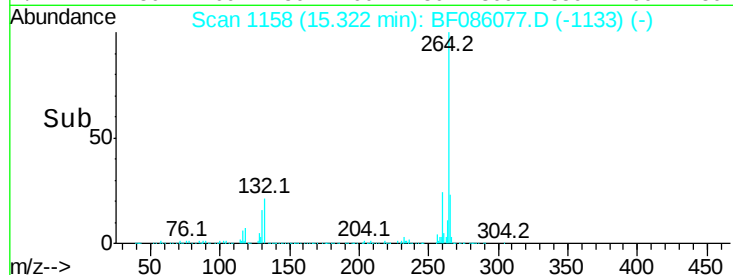
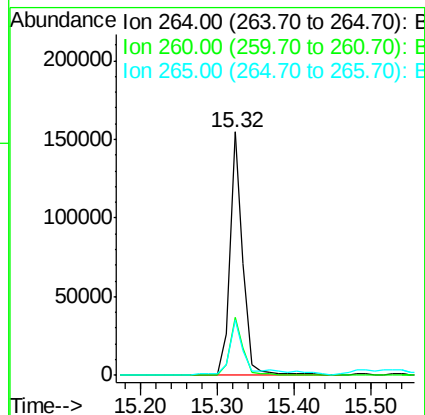
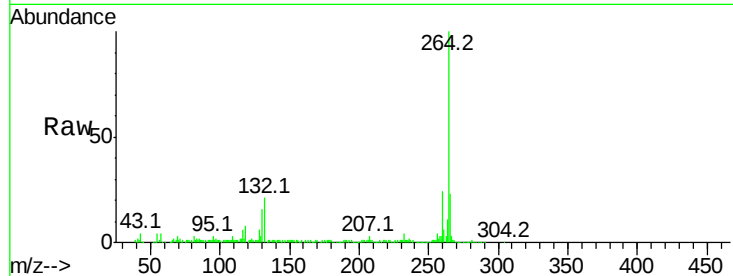
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:	264	Resp:	185877
Ion Ratio		Lower	Upper
264	100		
260	24.1	19.4	29.2
265	22.8	17.2	25.8

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#87

Benzo(b)fluoranthene

Concen: 16.02 ng m

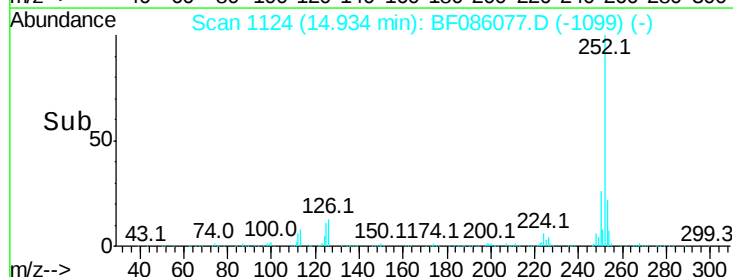
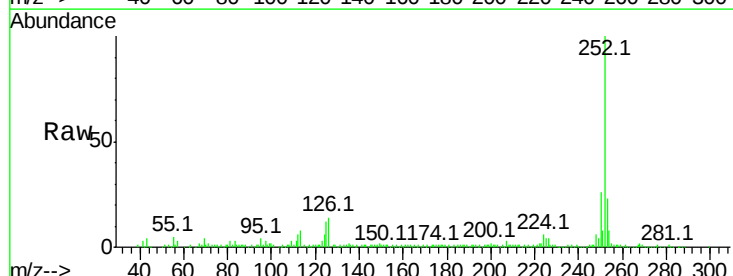
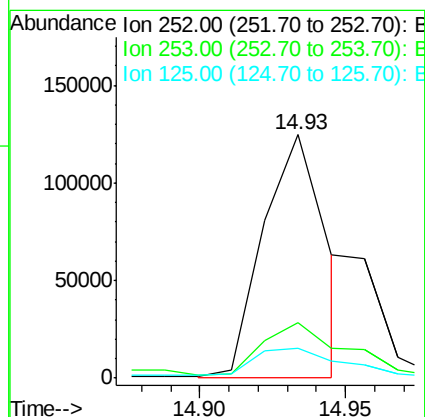
RT: 14.93 min Scan# 1124

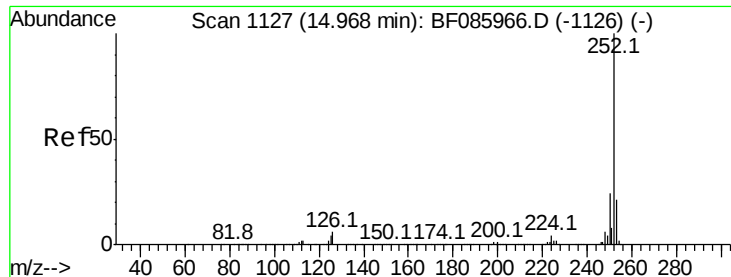
Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:	252	Resp:	187298
Ion Ratio		Lower	Upper
252	100		
253	22.6	17.6	26.4
125	12.2	10.3	15.5





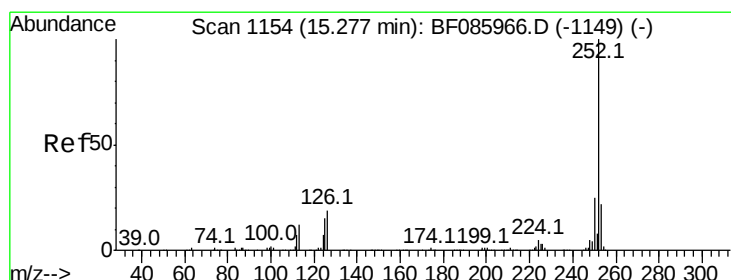
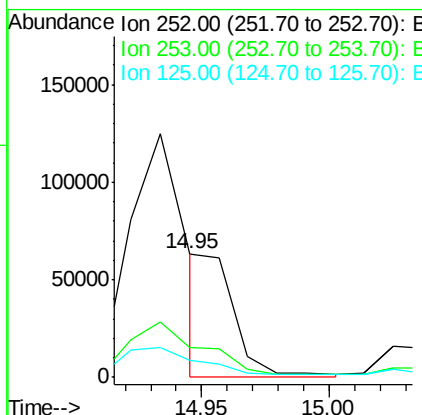
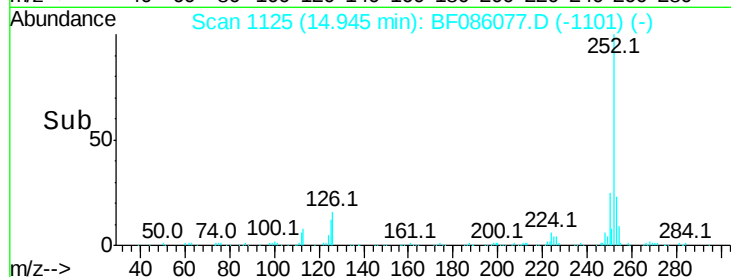
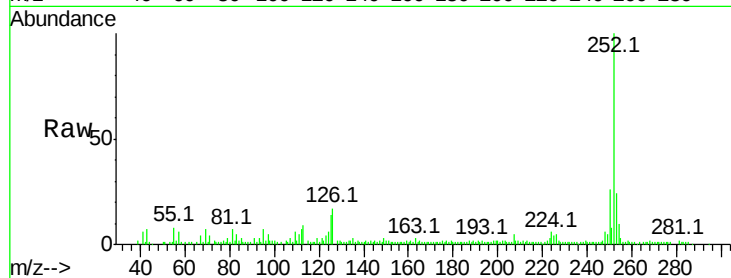
#88
Benzo(k)fluoranthene
Concen: 5.13 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF086077.D
Acq: 5 Apr 2016 11:06

Instrument :
BNA_F
ClientSampleId :
TK2-DUP-20160401DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.8	26.6
125	14.0	7.7	11.5

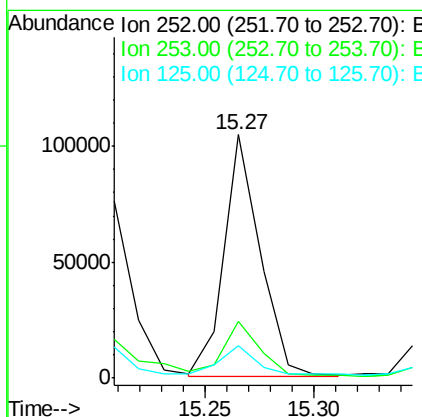
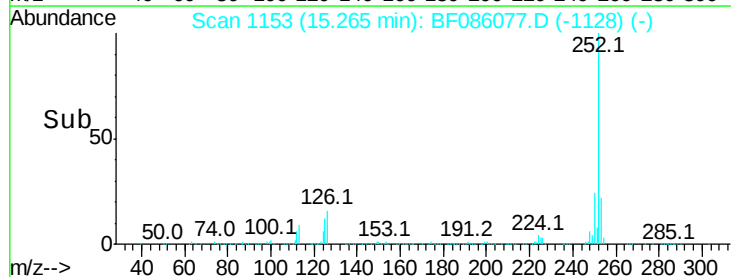
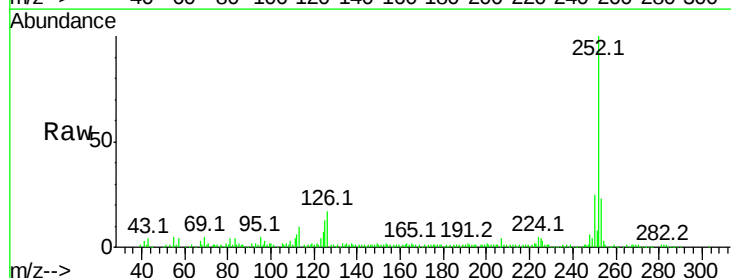
Manual Integrations
APPROVED

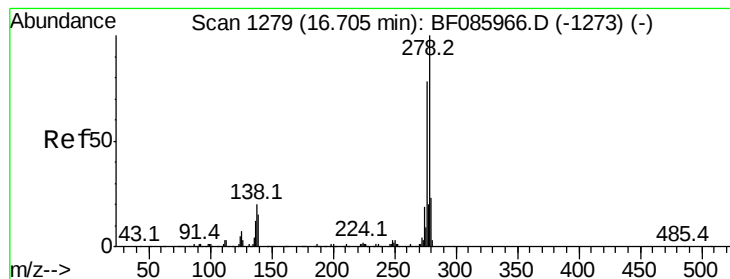
Sohil
4/5/2016 6:39:22 PM



#89
Benzo(a)pyrene
Concen: 11.65 ng
RT: 15.27 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF086077.D
Acq: 5 Apr 2016 11:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.0
125	13.2	10.3	15.5





#90

Dibenzo(a,h)anthracene

Concen: 2.05 ng

RT: 16.68 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Instrument :

BNA_F

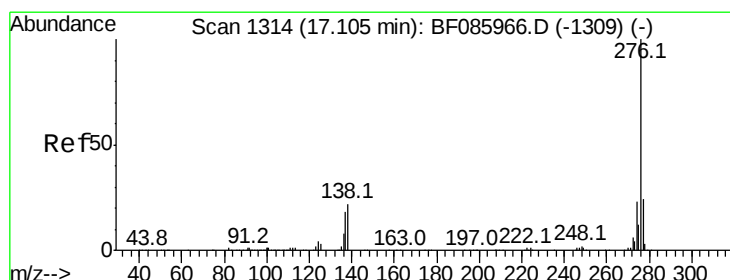
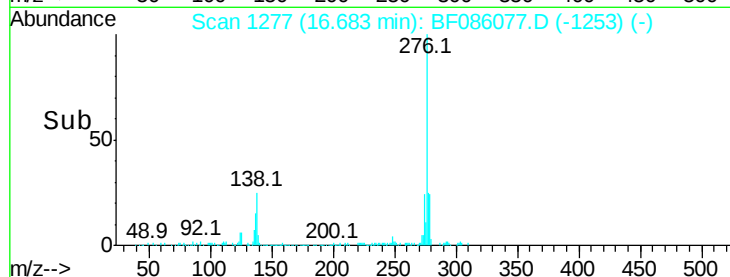
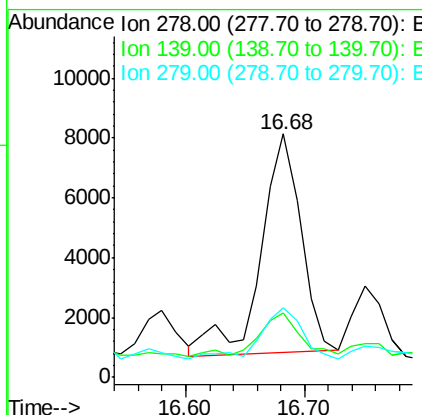
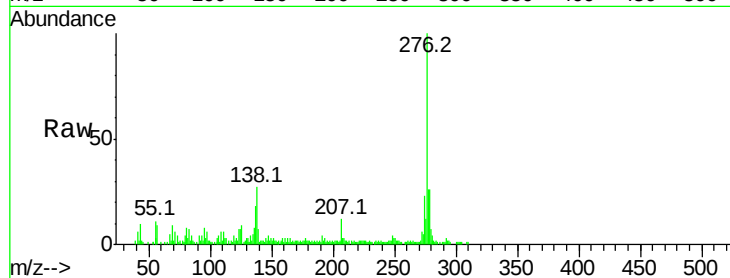
ClientSampleId :

TK2-DUP-20160401DL

Tot Ion:278	Resp:	17116
Ion Ratio	Lower	Upper
278	100	
139	26.3	14.4 21.6#
279	28.6	19.1 28.7

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:22 PM



#91

Benzo(g,h,i)perylene

Concen: 6.97 ng

RT: 17.09 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF086077.D

Acq: 5 Apr 2016 11:06

Tgt Ion:276	Resp:	56223
Ion Ratio	Lower	Upper
276	100	
277	24.6	18.8 28.2
138	24.2	22.6 34.0

