

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
 Data File : BF086289.D
 Acq On : 18 Apr 2016 18:39
 Operator : UM/SJ
 Sample : H2413-08 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-H-8(0-2)

Manual Integrations
 APPROVED

Sohil
 4/19/2016 6:22:58 PM

Quant Time: Apr 19 02:09:42 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	325864	20.00	ng	-0.01
21) Naphthalene-d8	8.17	136	1187442	20.00	ng	-0.01
38) Acenaphthene-d10	9.93	164	483501	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	725343	20.00	ng	0.00
75) Chrysene-d12	14.04	240	462271	20.00	ng	-0.01
86) Perylene-d12	15.48	264	444215	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	1282327	64.48	ng	0.00
7) Phenol-d6	6.51	99	1502356	60.39	ng	-0.01
23) Nitrobenzene-d5	7.45	82	974075	47.31	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	241275	62.14	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	1376264	52.53	ng	-0.01
78) Terphenyl-d14	12.99	244	754205	41.03	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.19	128	117964	2.22	ng	97
37) 2-Methylnaphthalene	8.89	142	82214	2.40	ng	98
49) Dimethylphthalate	9.64	163	192574	5.48	ng	99
51) Acenaphthene	9.96	154	224387	8.31	ng	99
54) Dibenzofuran	10.13	168	202659	5.68	ng	99
57) Fluorene	10.48	166	323176	10.42	ng	99
70) Phenanthrene	11.44	178	1972742	56.94	ng	99
71) Anthracene	11.48	178	732125	17.63	ng	97
72) Carbazole	11.63	167	145238	4.41	ng	99
74) Fluoranthene	12.62	202	1988820	69.79	ng	99
77) Pyrene	12.85	202	1997986	56.34	ng	100
80) Benzo(a)anthracene	14.03	228	1134956	44.72	ng	97
82) Chrysene	14.08	228	906541	33.50	ng	97
85) Indeno(1,2,3-cd)pyrene	16.89	276	354346	15.93	ng	98
87) Benzo(b)fluoranthene	15.07	252	930064m	33.94	ng	
88) Benzo(k)fluoranthene	15.09	252	361454m	14.46	ng	
89) Benzo(a)pyrene	15.43	252	720525	30.35	ng	97
90) Dibenzo(a,h)anthracene	16.90	278	84790	4.04	ng	# 91
91) Benzo(a,h,i)perylene	17.31	276	340230	15.25	ng	# 92

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

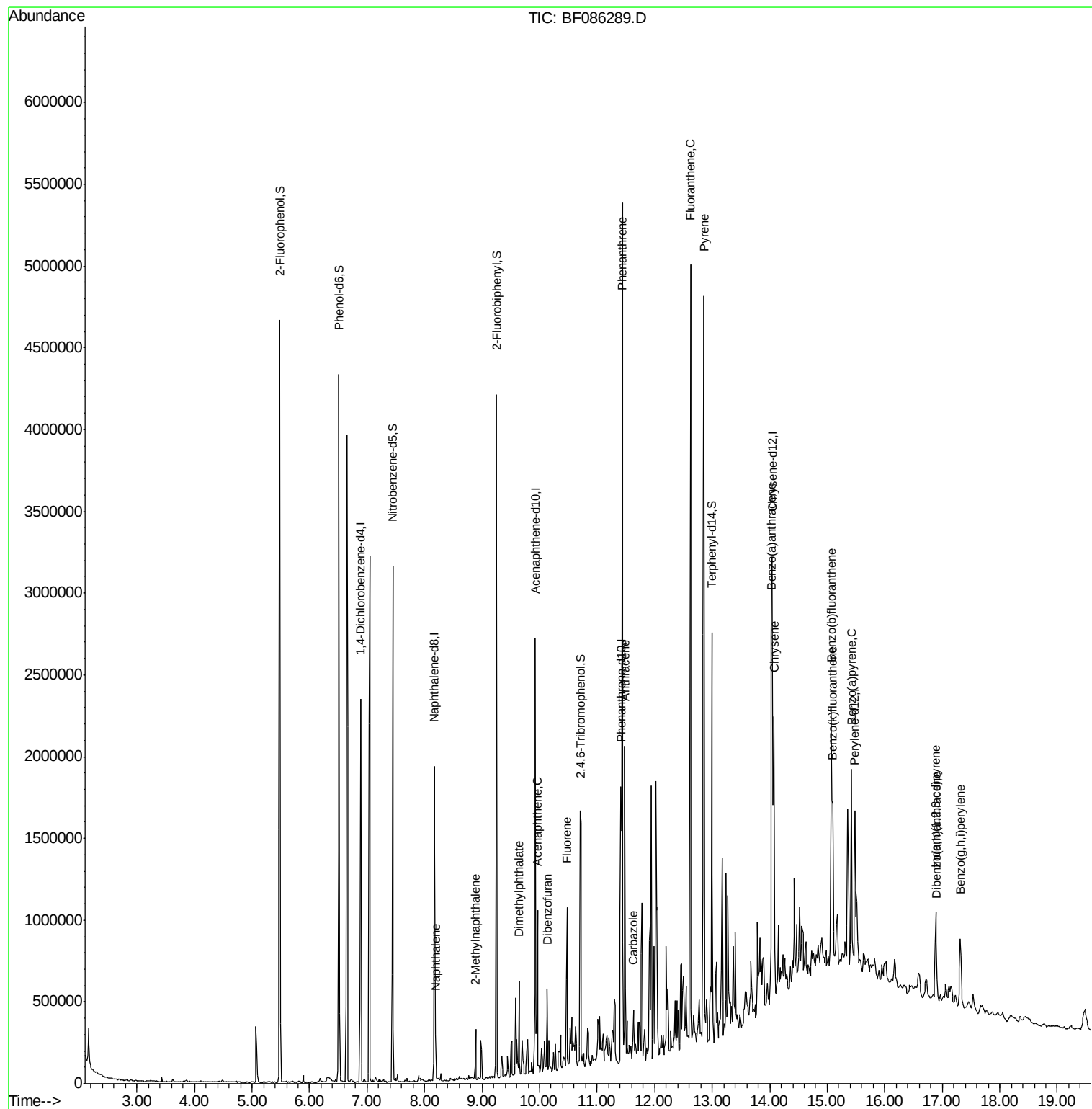
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
Data File : BF086289.D
Acq On : 18 Apr 2016 18:39
Operator : UM/SJ
Sample : H2413-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

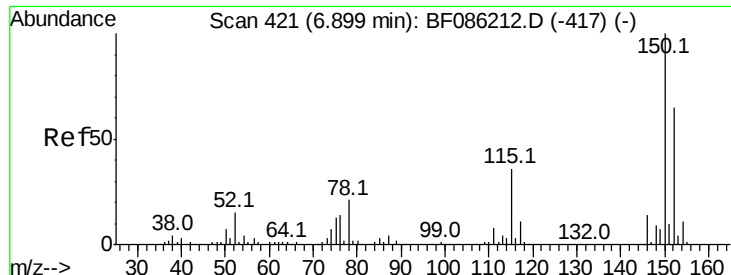
Instrument :
BNA_F
ClientSampleId :
SP-2-H-8(0-2)

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM

Quant Time: Apr 19 02:09:42 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 15 15:56:31 2016
Response via : Initial Calibration





#1

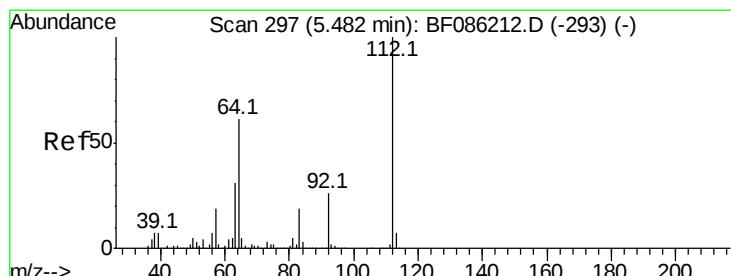
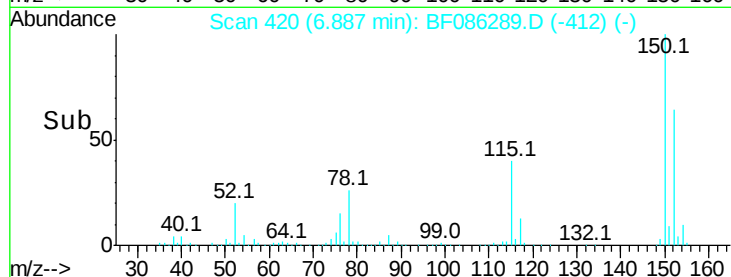
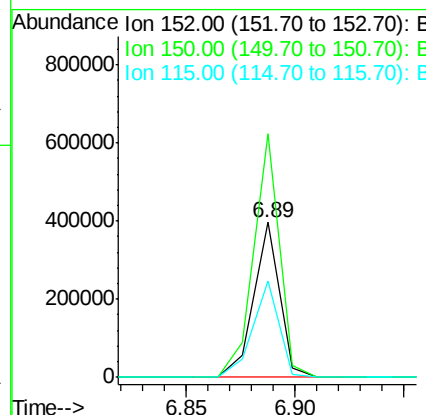
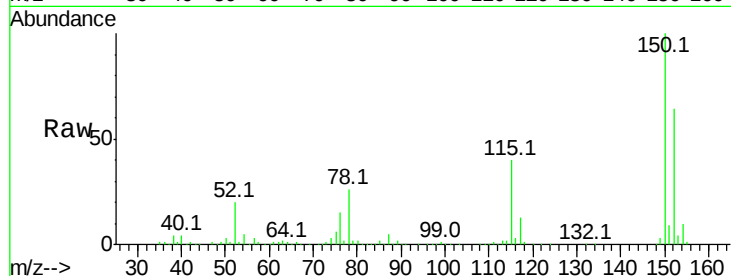
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Instrument :
BNA_F
ClientSampleId :
SP-2-H-8(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	124.1	186.1
115	62.4	43.9	65.9

Manual Integrations
APPROVED

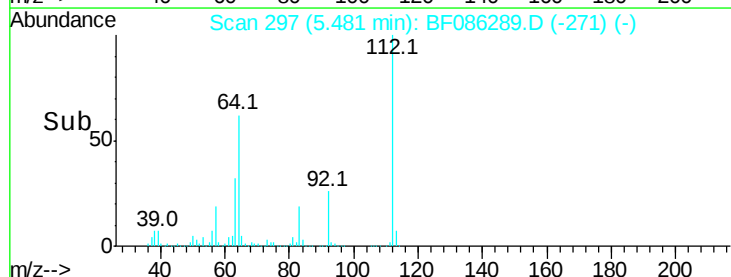
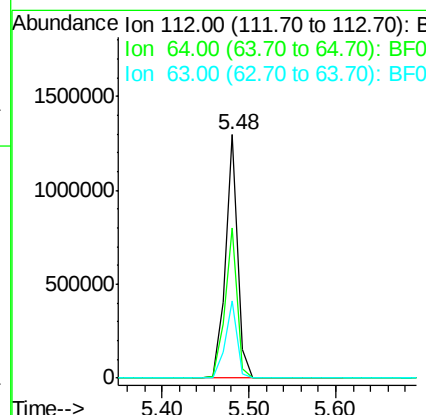
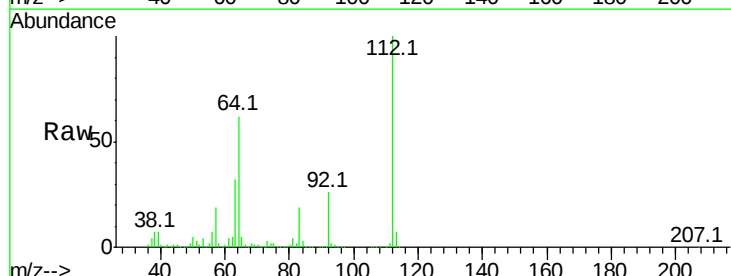
Sohil
4/19/2016 6:22:58 PM

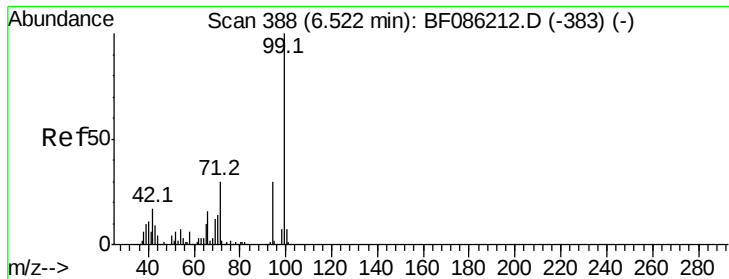


#5

2-Fluorophenol
Concen: 64.48 ng
RT: 5.48 min Scan# 297
Delta R.T. 0.00 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.8	48.1	72.1
63	31.6	25.5	38.3





#7

Phenol-d6

Concen: 60.39 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

ClientSampleId :

SP-2-H-8(0-2)

Tot Ion: 99 Resp: 1502356

Ion Ratio Lower Upper

99 100

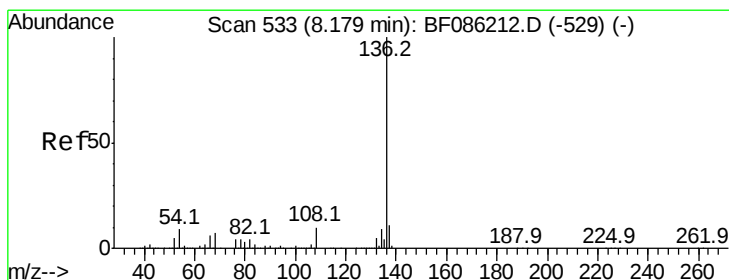
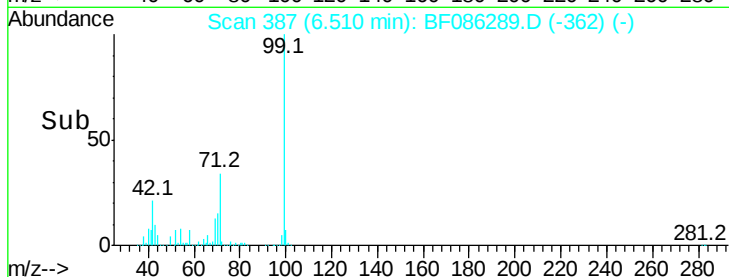
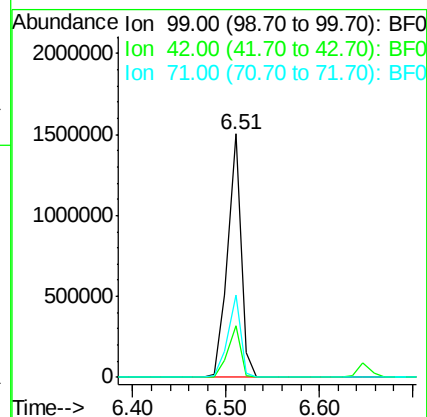
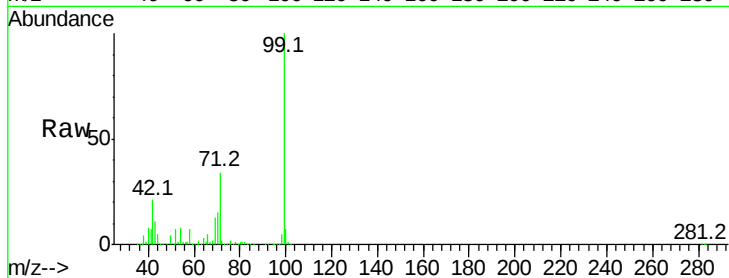
42 21.3 15.4 23.2

71 34.0 25.6 38.4

Manual Integrations
APPROVED

Sohil

4/19/2016 6:22:58 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 532

Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Tgt Ion: 136 Resp: 1187442

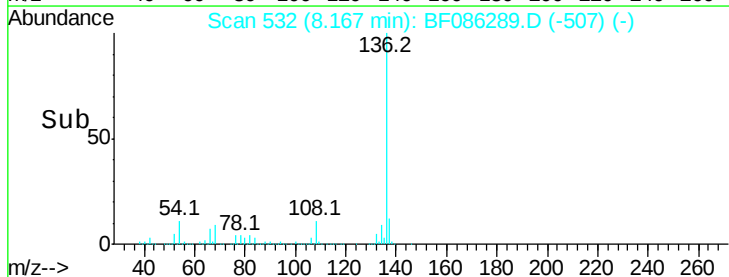
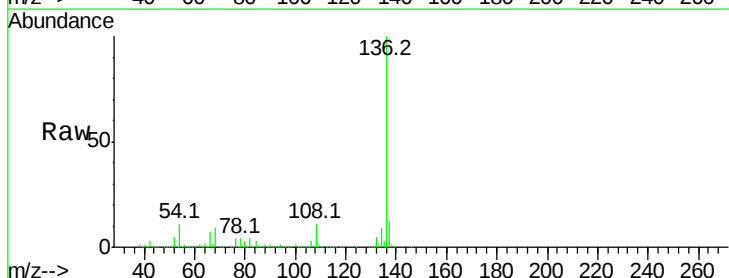
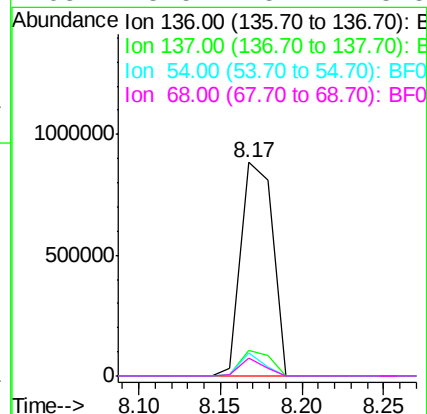
Ion Ratio Lower Upper

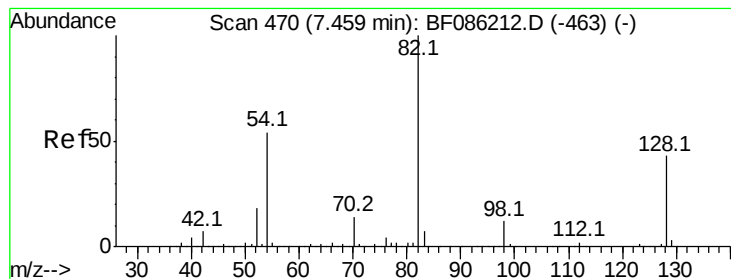
136 100

137 11.8 9.1 13.7

54 10.7 7.3 10.9

68 8.5 5.7 8.5#





#23

Nitrobenzene-d5

Concen: 47.31 ng

RT: 7.45 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

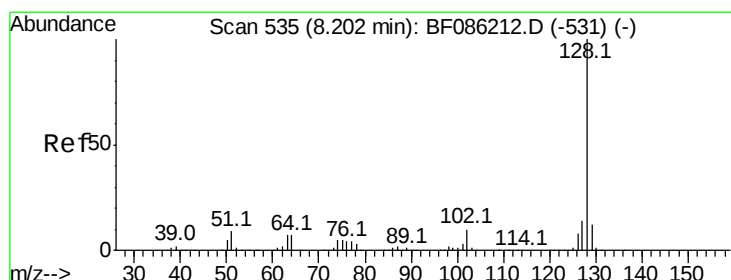
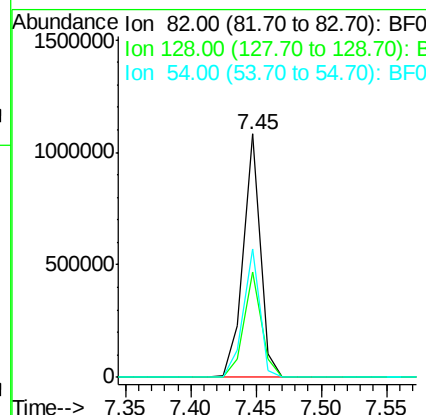
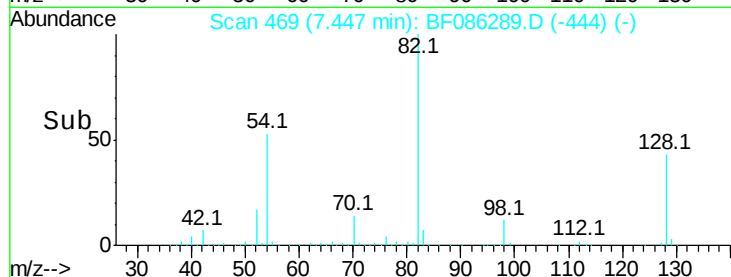
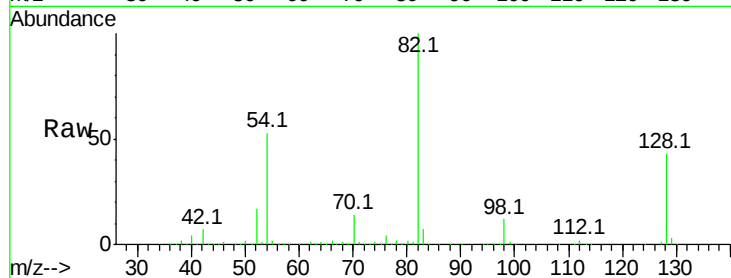
ClientSampleId :

SP-2-H-8(0-2)

Tot Ion:	82	Resp:	974075
Ion Ratio	Lower	Upper	
82	100		
128	43.4	35.4	53.2
54	52.5	43.4	65.0

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM



#31

Naphthalene

Concen: 2.22 ng

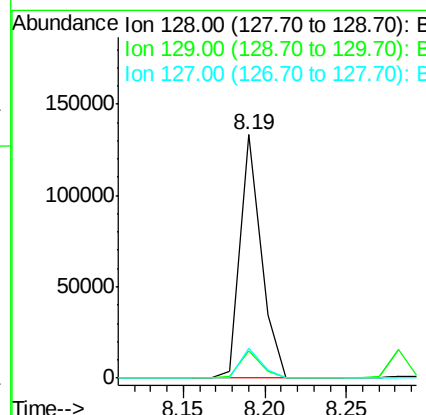
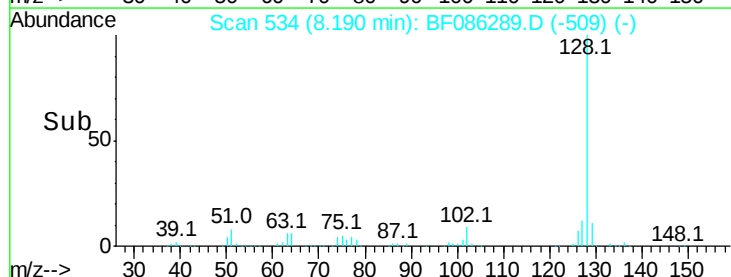
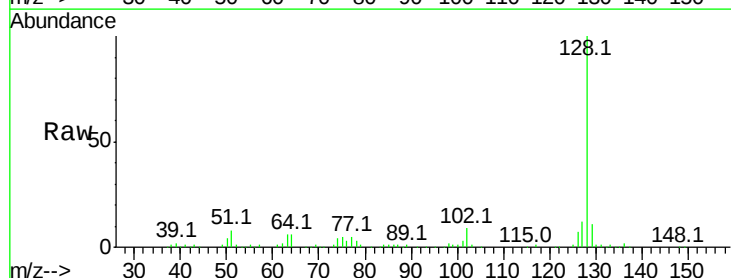
RT: 8.19 min Scan# 534

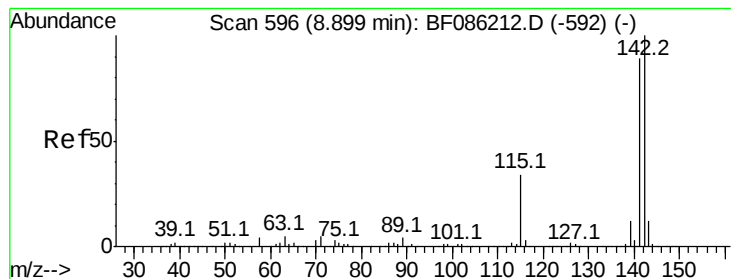
Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Tgt Ion:	128	Resp:	117964
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.6	14.4
127	12.4	11.4	17.2





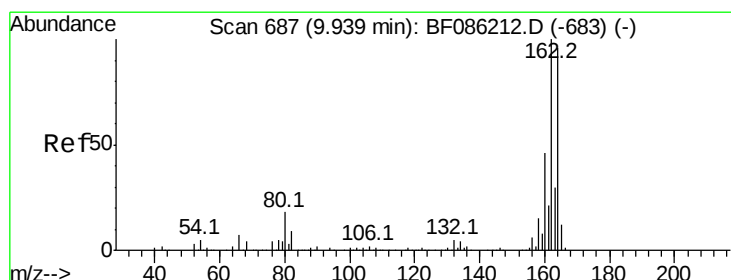
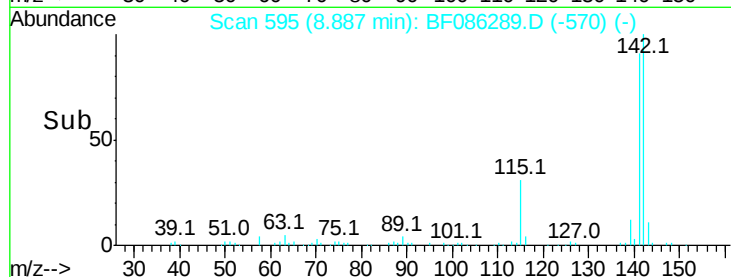
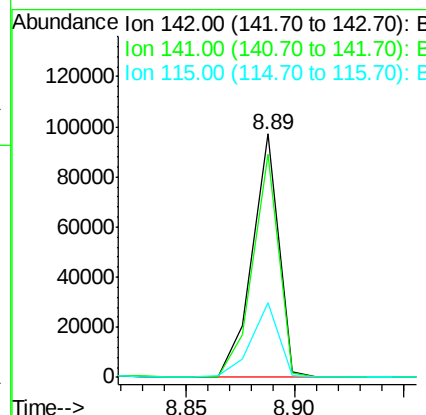
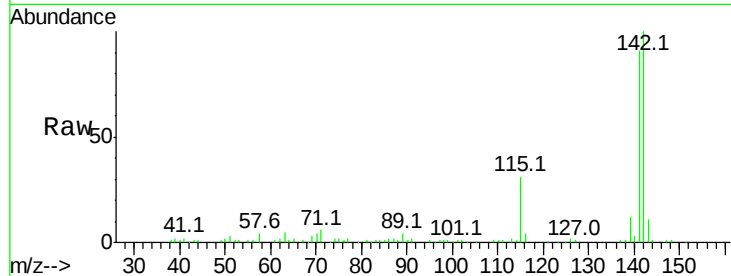
#37
2-Methylnaphthalene
Concen: 2.40 ng
RT: 8.89 min Scan# 595
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Instrument :
BNA_F
ClientSampleId :
SP-2-H-8(0-2)

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.5	71.1	106.7
115	30.8	25.1	37.7

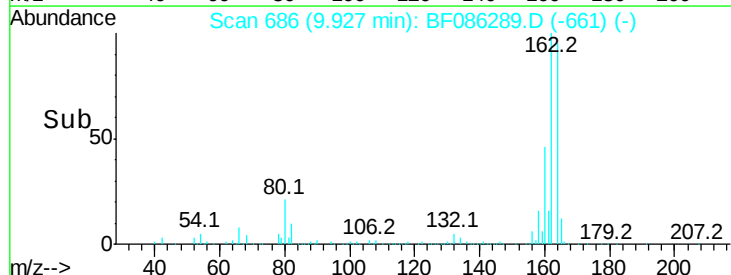
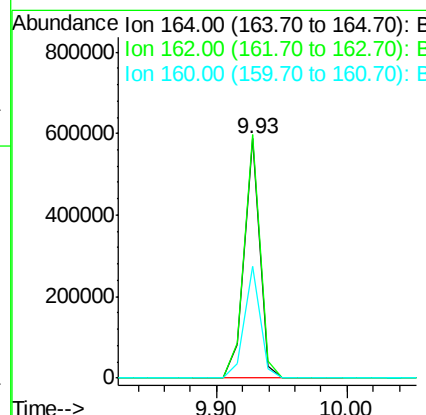
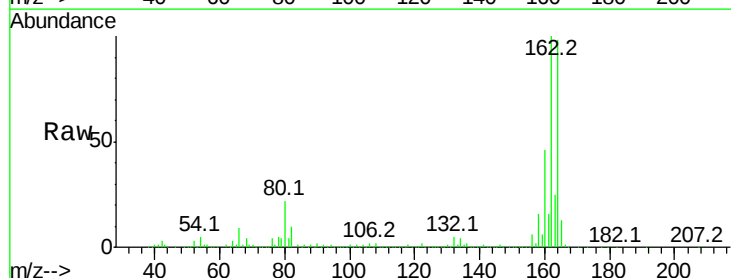
Manual Integrations
APPROVED

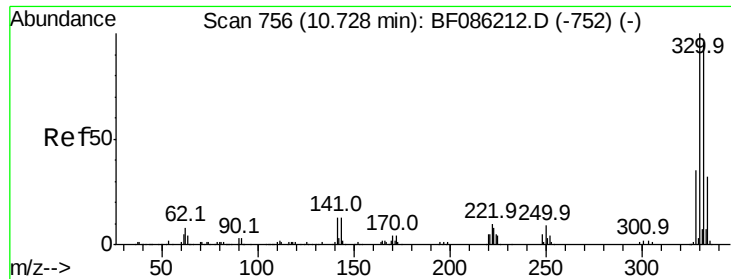
Sohil
4/19/2016 6:22:58 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.8	124.2
160	46.9	38.9	58.3





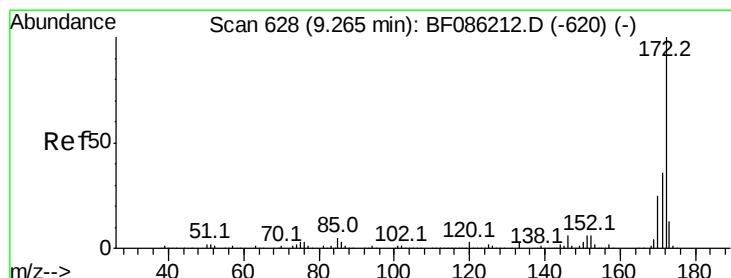
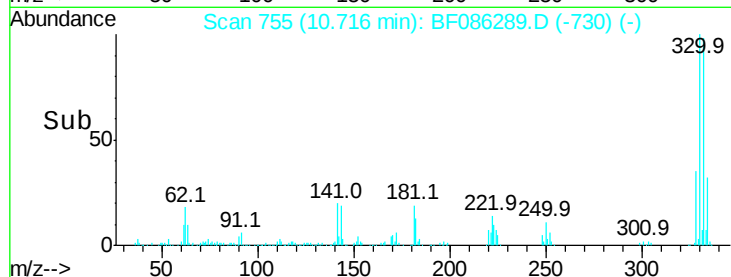
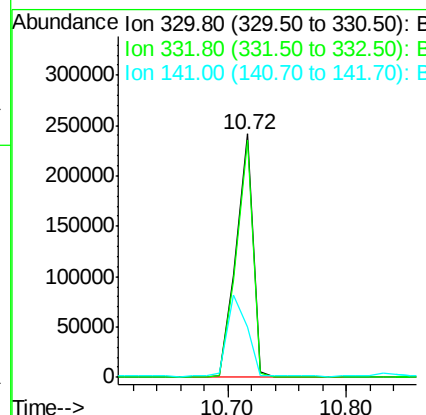
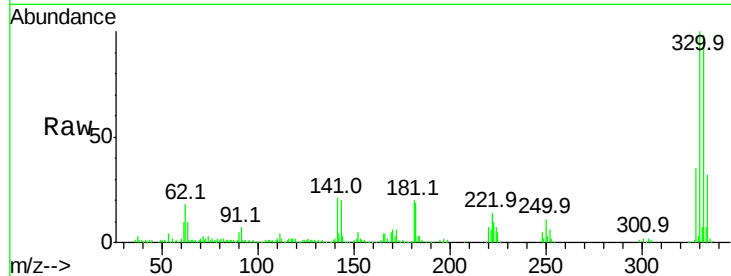
#41
 2,4,6-Tribromophenol
 Concen: 62.14 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF086289.D
 Acq: 18 Apr 2016 18:39

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-H-8(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	241275		
332	96.8	78.7	118.1	
141	39.2	28.6	42.8	

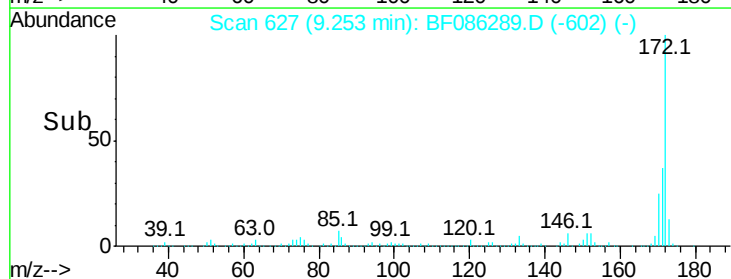
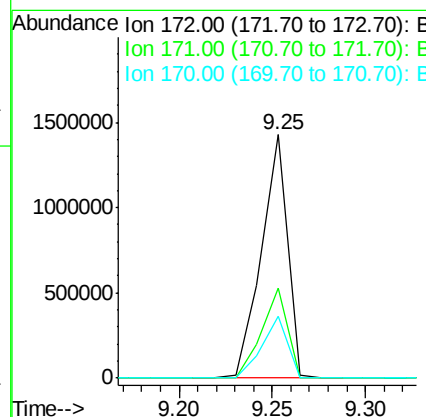
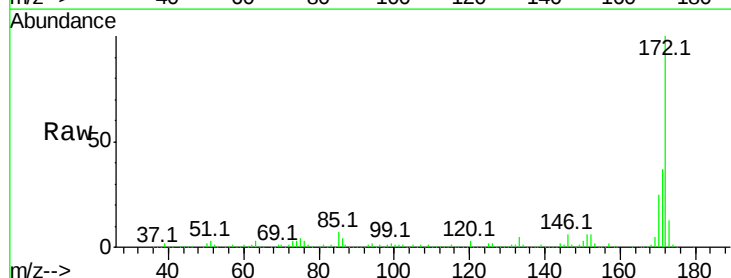
Manual Integrations
 APPROVED

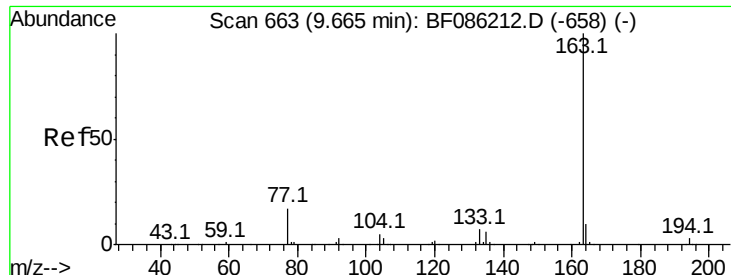
Sohil
 4/19/2016 6:22:58 PM



#44
 2-Fluorobiphenyl
 Concen: 52.53 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF086289.D
 Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1376264		
171	37.0	29.1	43.7	
170	25.5	19.9	29.9	





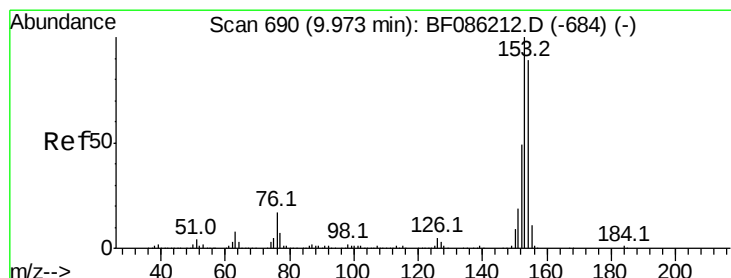
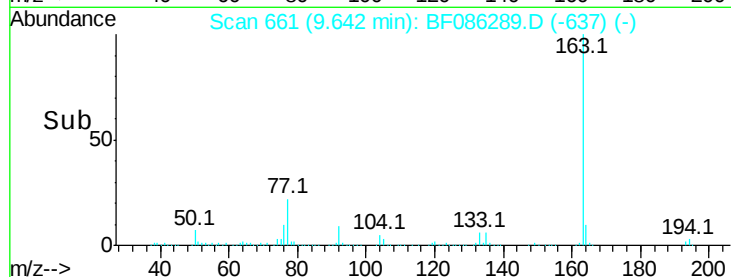
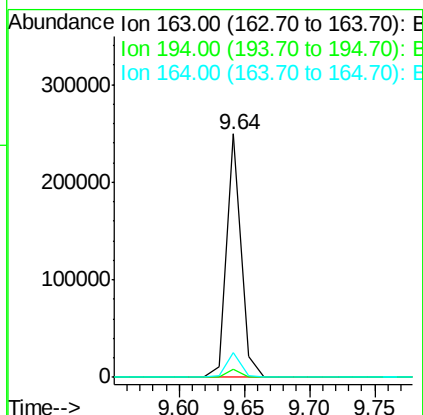
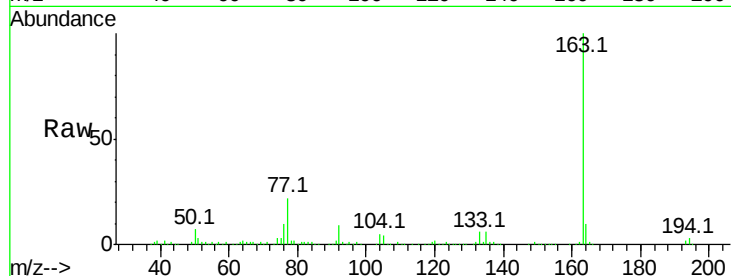
#49
Dimethylphthalate
Concen: 5.48 ng
RT: 9.64 min Scan# 661
Delta R.T. -0.02 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Instrument :
BNA_F
ClientSampleId :
SP-2-H-8(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	192574		
194	3.2		2.8	4.2
164	10.0		8.4	12.6

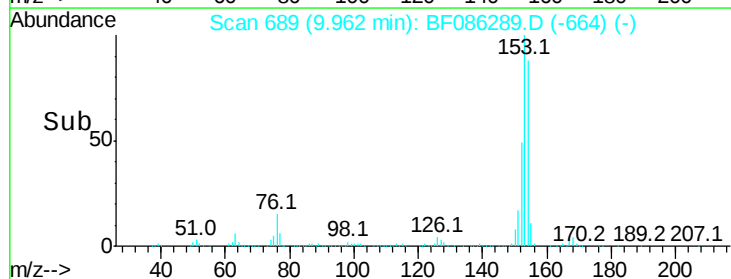
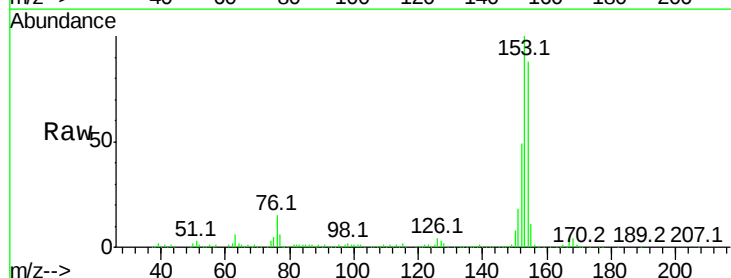
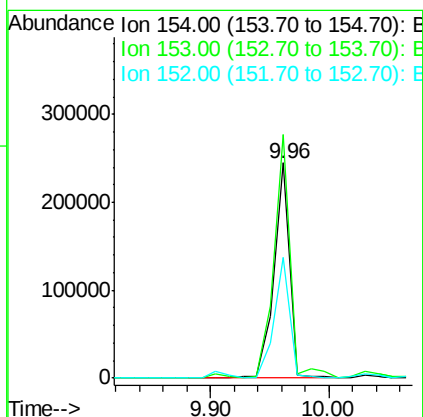
Manual Integrations
APPROVED

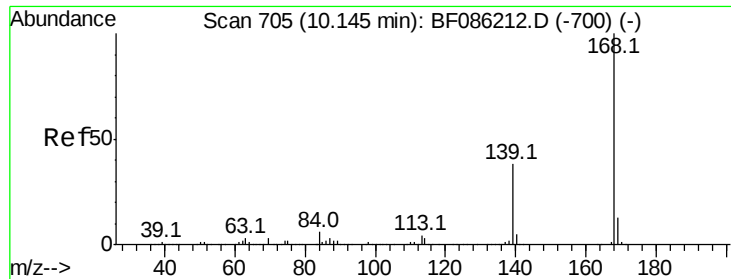
Sohil
4/19/2016 6:22:58 PM



#51
Acenaphthene
Concen: 8.31 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	224387		
153	113.3		90.0	135.0
152	56.0		44.3	66.5





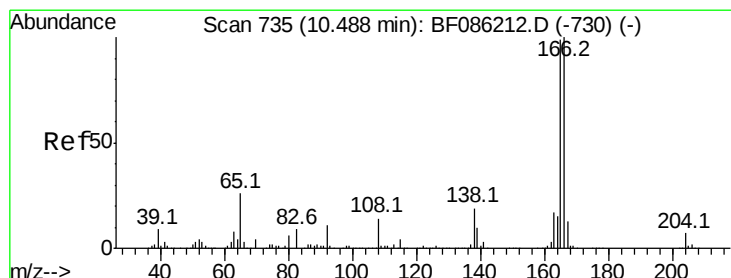
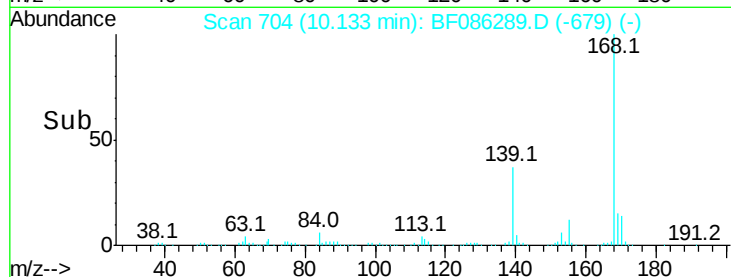
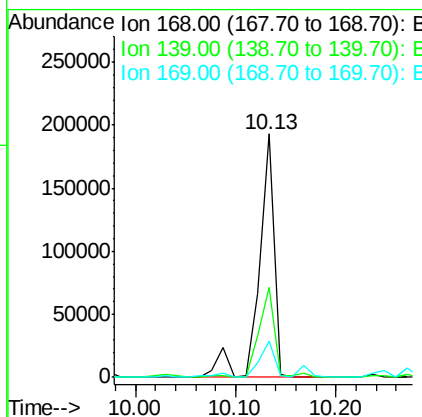
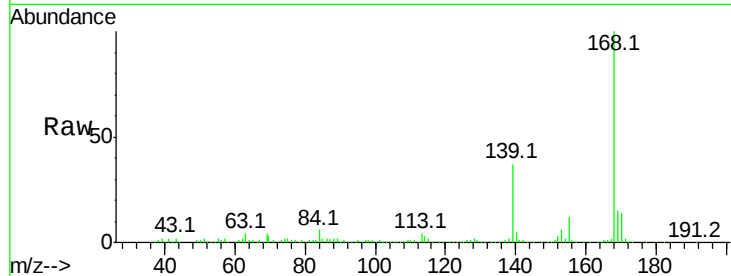
#54
Dibenzenofuran
Concen: 5.68 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Instrument :
BNA_F
ClientSampleId :
SP-2-H-8(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.8	29.5	44.3
169	14.8	10.6	16.0

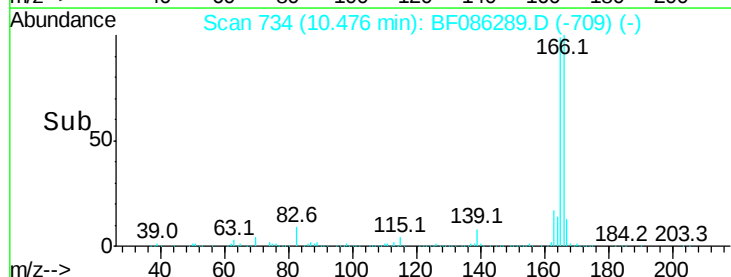
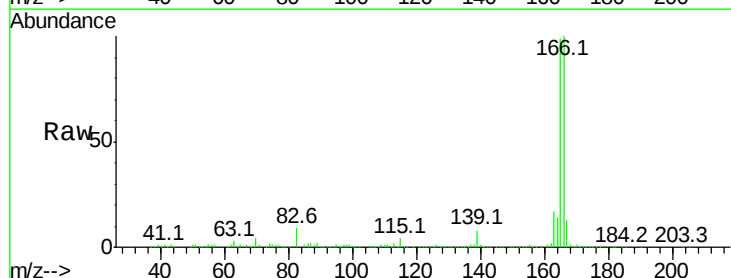
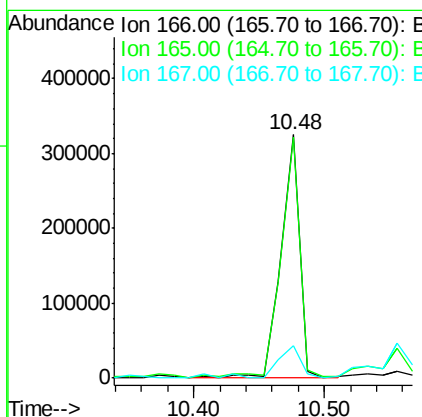
Manual Integrations
APPROVED

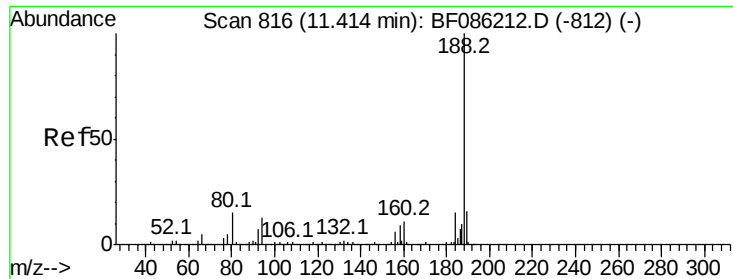
Sohil
4/19/2016 6:22:58 PM



#57
Fluorene
Concen: 10.42 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.6	117.8
167	13.4	10.4	15.6





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.00 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

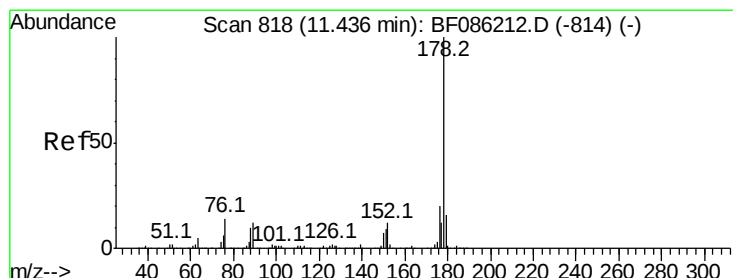
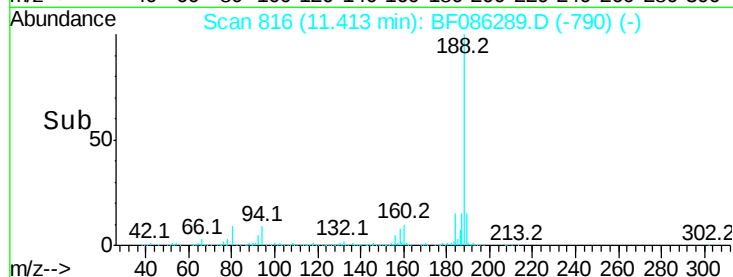
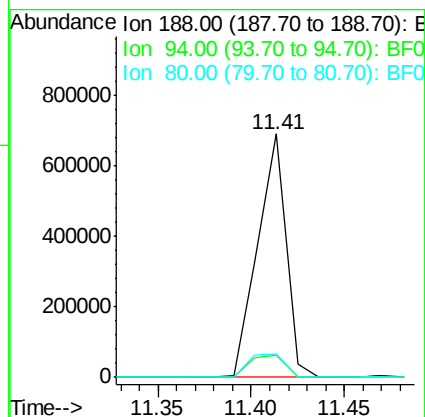
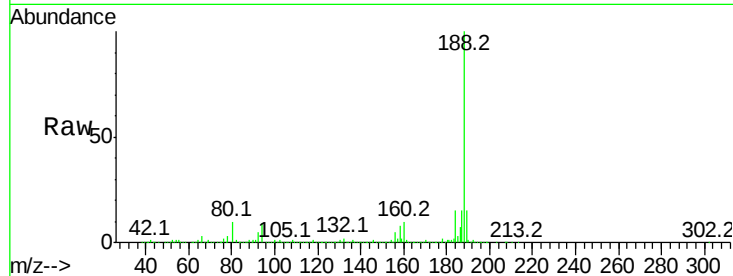
ClientSampleId :

SP-2-H-8(0-2)

Tot Ion:	188	Resp:	725343
Ion Ratio	Lower	Upper	
188	100		
94	9.0	9.8	14.8#
80	9.6	10.5	15.7#

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM



#70

Phenanthrene

Concen: 56.94 ng

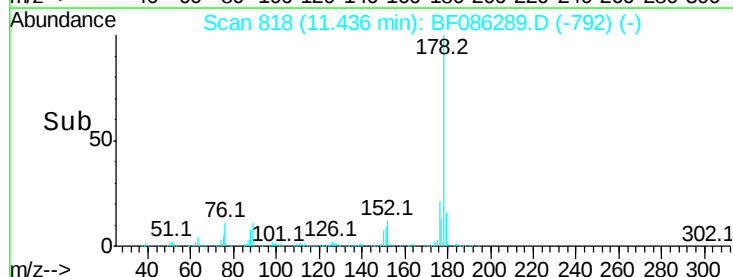
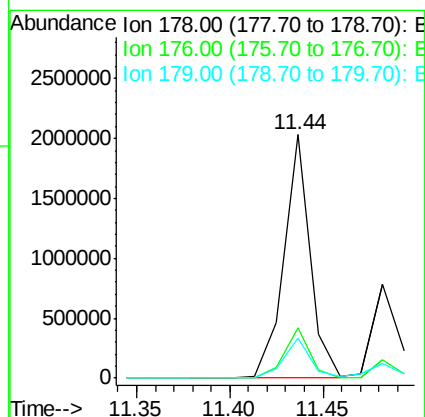
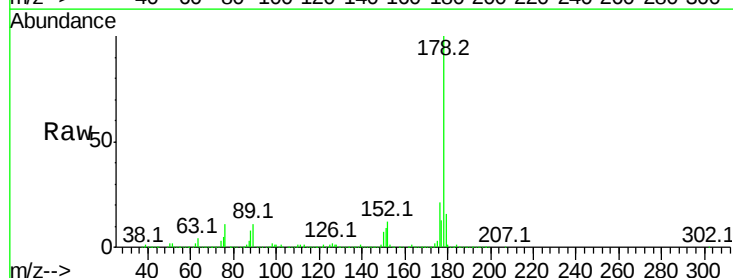
RT: 11.44 min Scan# 818

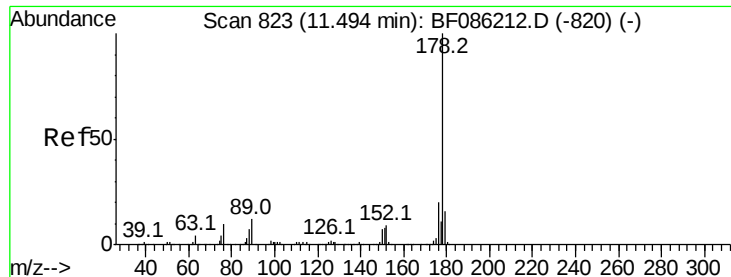
Delta R.T. 0.00 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Tgt Ion:	178	Resp:	1972742
Ion Ratio	Lower	Upper	
178	100		
176	20.9	16.3	24.5
179	16.3	13.0	19.6





#71

Anthracene

Concen: 17.63 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

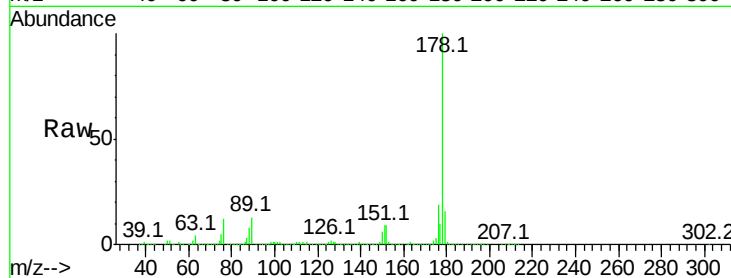
ClientSampleId :

SP-2-H-8(0-2)

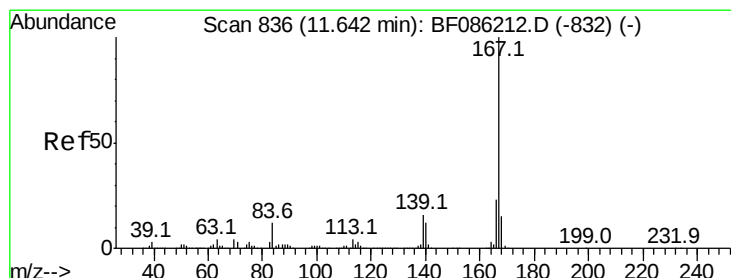
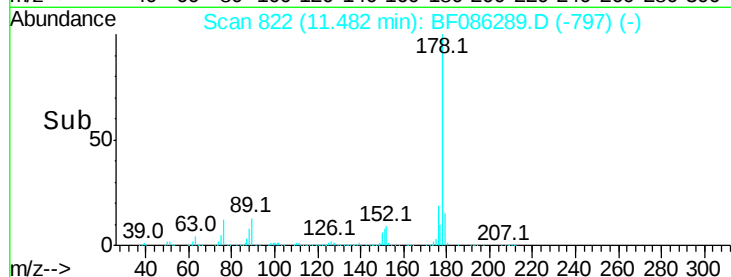
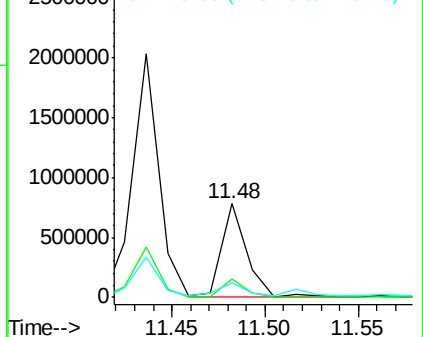
Tot Ion:	178	Resp:	732125
Ion Ratio	Lower	Upper	
178	100		
176	19.0	16.2	24.4
179	15.6	13.2	19.8

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM



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



#72

Carbazole

Concen: 4.41 ng

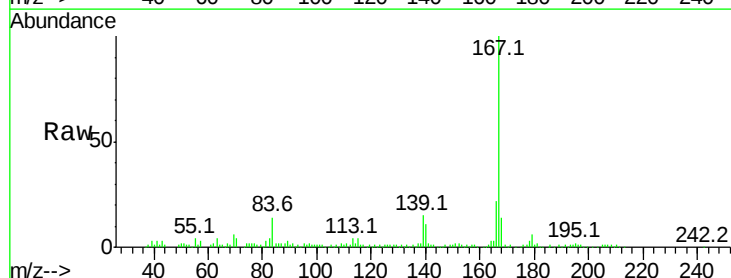
RT: 11.63 min Scan# 835

Delta R.T. -0.01 min

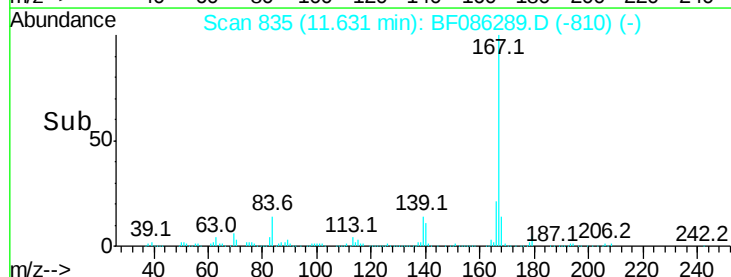
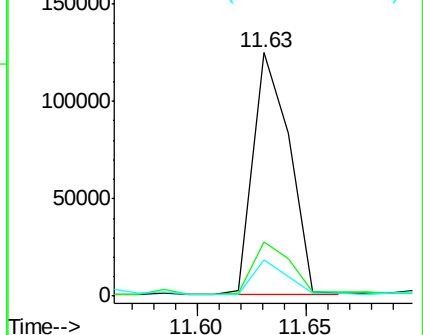
Lab File: BF086289.D

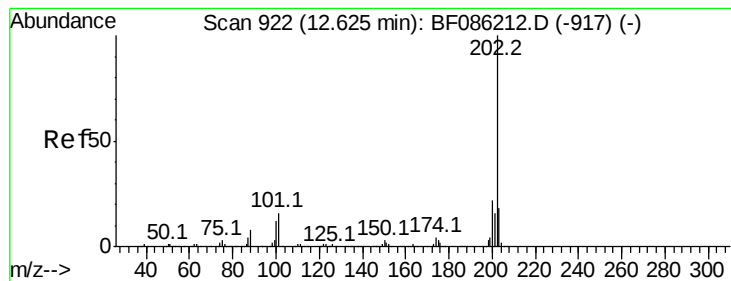
Acq: 18 Apr 2016 18:39

Tgt Ion:	167	Resp:	145238
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.3	27.5
139	14.9	12.3	18.5



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





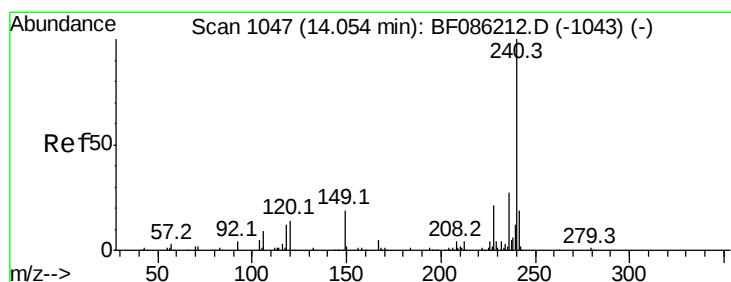
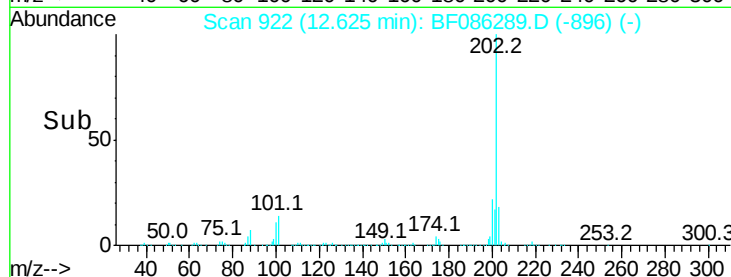
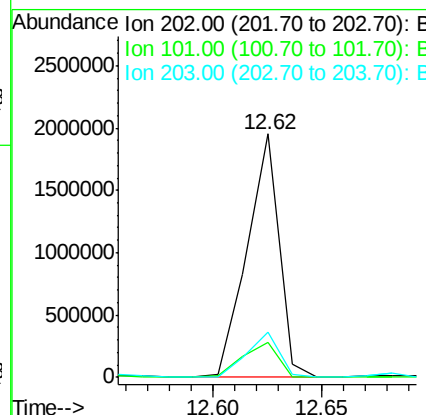
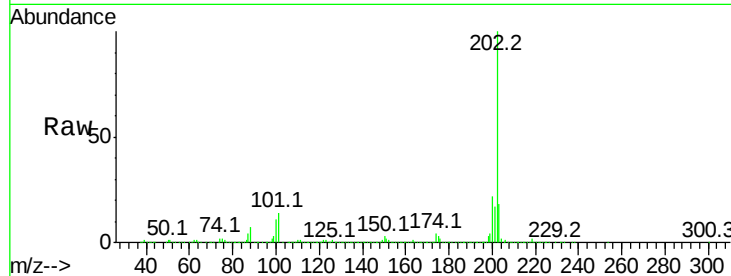
#74
 Fluoranthene
 Concen: 69.79 ng
 RT: 12.62 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: BF086289.D
 Acq: 18 Apr 2016 18:39

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-H-8(0-2)

Tot Ion:	202	Resp:	1988820
Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	35.2
203	18.5	0.0	38.2

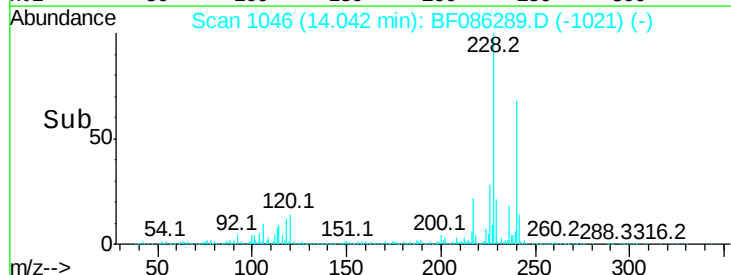
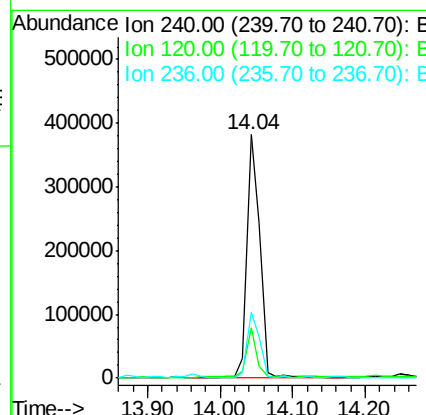
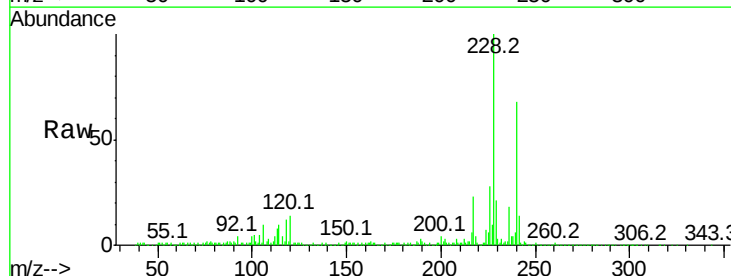
Manual Integrations
 APPROVED

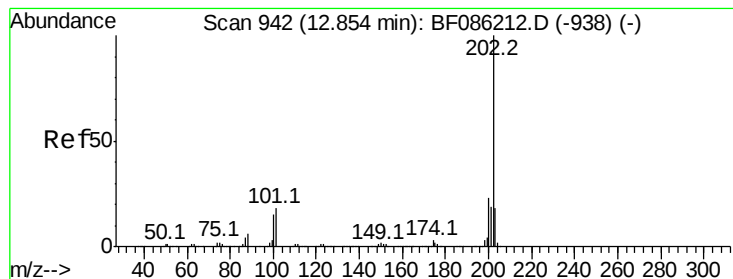
Sohil
 4/19/2016 6:22:58 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.01 min
 Lab File: BF086289.D
 Acq: 18 Apr 2016 18:39

Tgt Ion:	240	Resp:	462271
Ion	Ratio	Lower	Upper
240	100		
120	20.8	9.3	13.9#
236	26.8	21.1	31.7





#77

Pvrene

Concen: 56.34 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.00 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

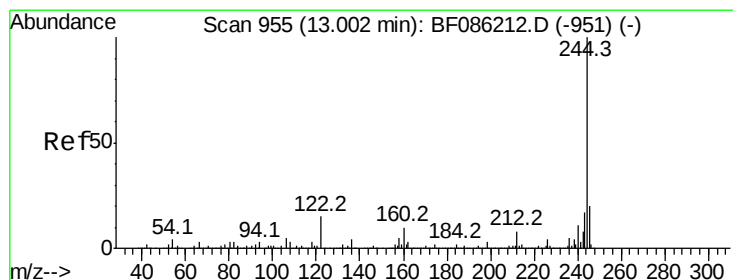
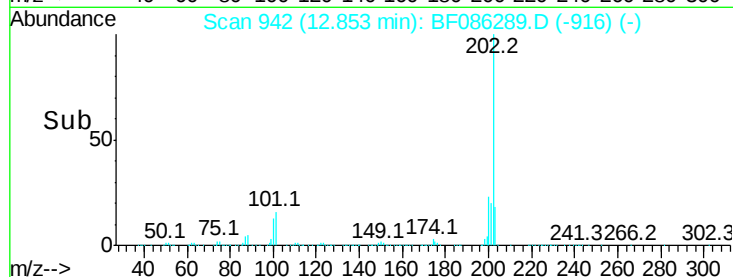
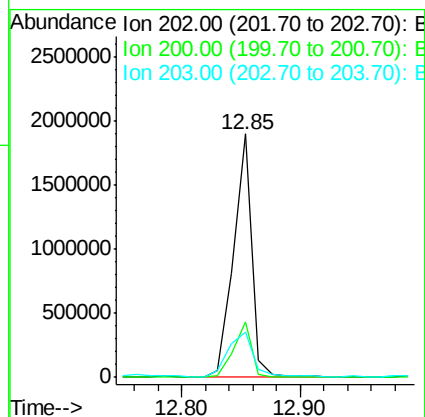
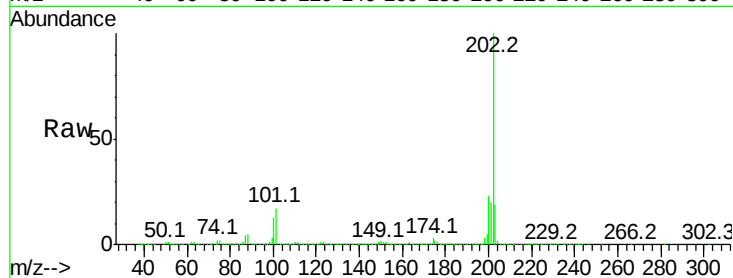
ClientSampled :

SP-2-H-8(0-2)

Tot Ion:	202	Resp:	1997986
Ion Ratio	Lower	Upper	
202	100		
200	23.0	18.3	27.5
203	18.6	14.9	22.3

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM



#78

Terphenyl-d14

Concen: 41.03 ng

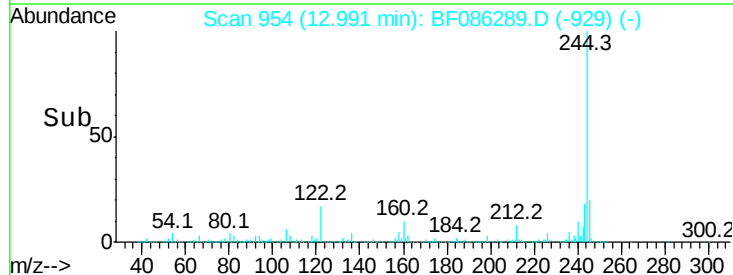
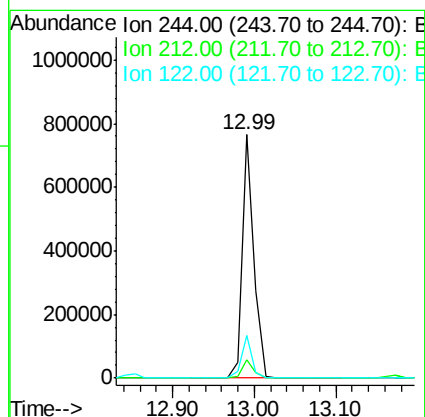
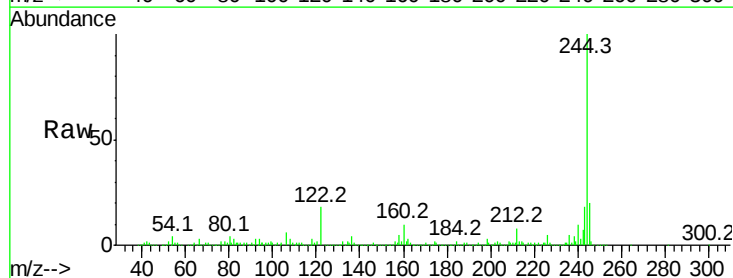
RT: 12.99 min Scan# 954

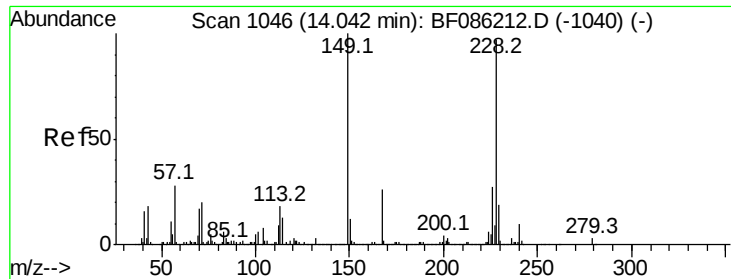
Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Tgt Ion:	244	Resp:	754205
Ion Ratio	Lower	Upper	
244	100		
212	7.7	6.4	9.6
122	17.6	11.7	17.5#





#80

Benzo(a)anthracene

Concen: 44.72 ng

RT: 14.03 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

ClientSampled :

SP-2-H-8(0-2)

Tot Ion:228 Resp: 1134956

Ion Ratio Lower Upper

228 100

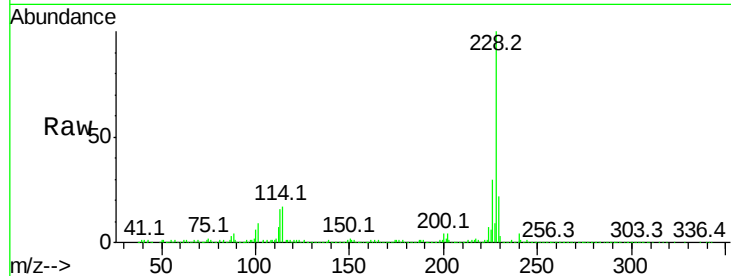
226 29.9 22.5 33.7

229 21.7 16.2 24.2

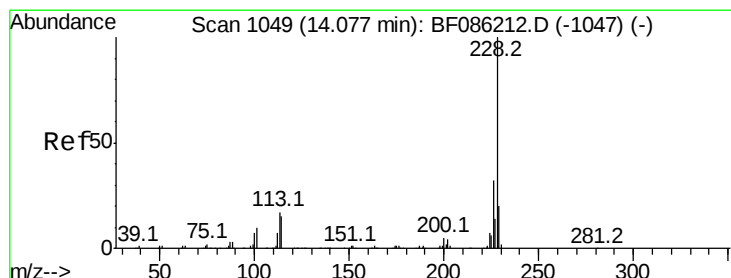
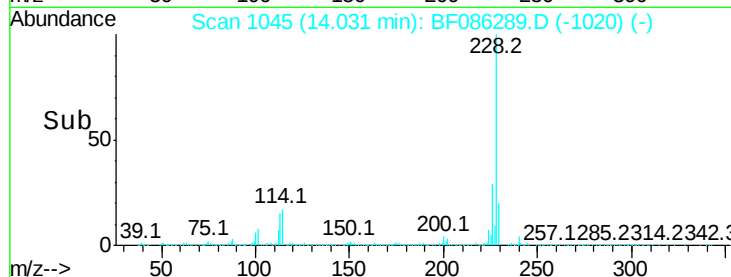
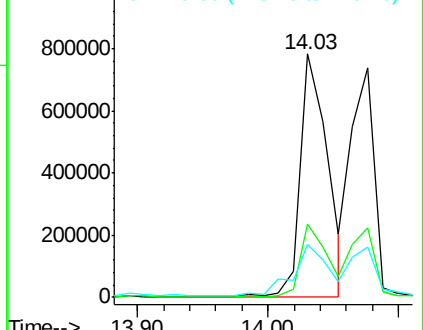
Manual Integrations
APPROVED

Sohil

4/19/2016 6:22:58 PM



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



#82

Chrysene

Concen: 33.50 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Tgt Ion:228 Resp: 906541

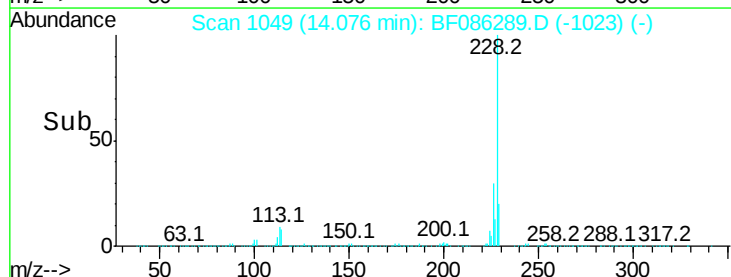
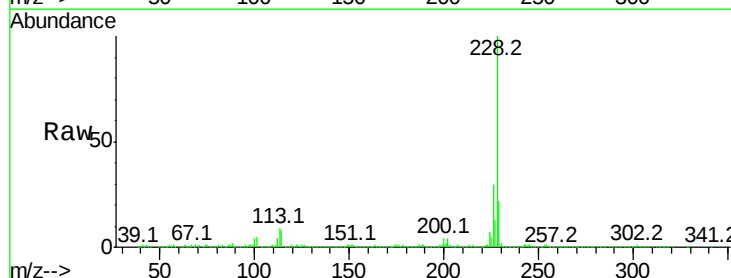
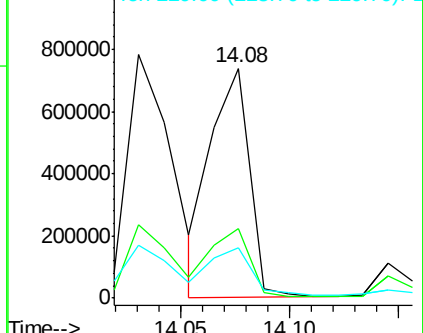
Ion Ratio Lower Upper

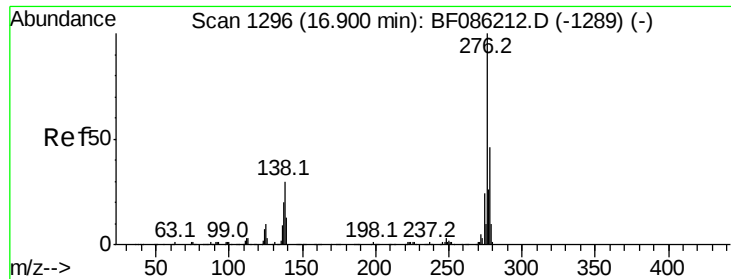
228 100

226 30.4 25.4 38.2

229 21.9 16.5 24.7

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





#85

Indeno(1,2,3-cd)pyrene

Concen: 15.93 ng

RT: 16.89 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

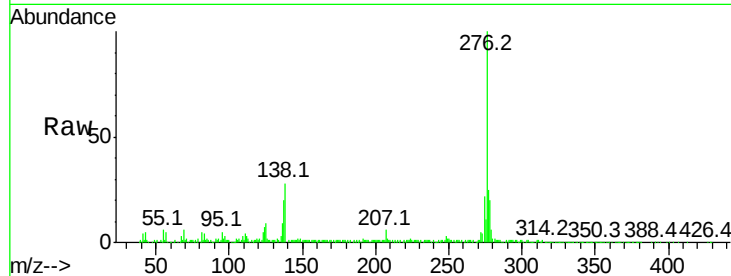
ClientSampleId :

SP-2-H-8(0-2)

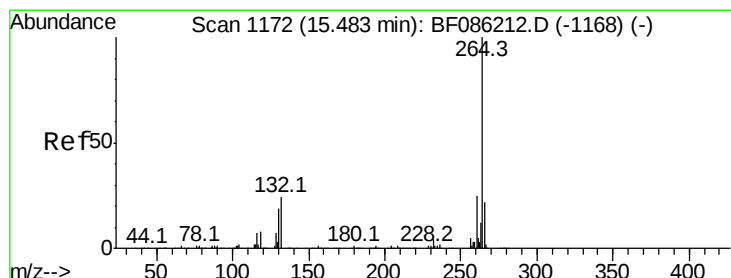
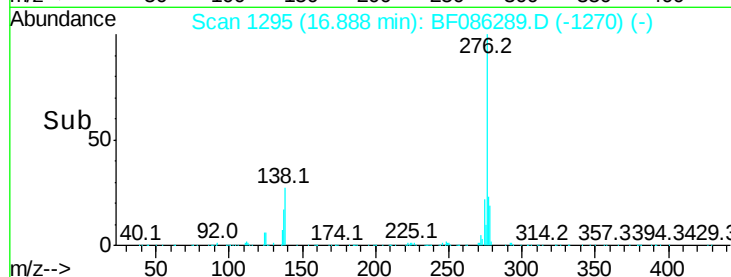
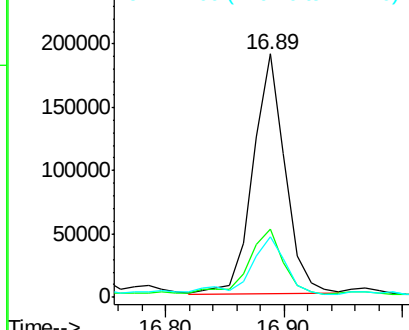
Tot Ion:	276	Resp:	354346
Ion Ratio	Lower	Upper	
276	100		
138	29.8	23.8	35.6
277	27.7	20.2	30.2

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM



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



#86

Perylene-d12

Concen: 20.00 ng

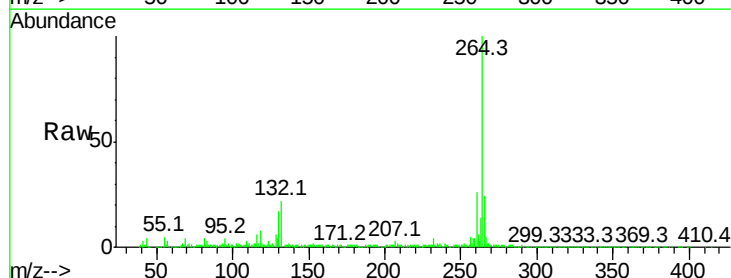
RT: 15.48 min Scan# 1172

Delta R.T. -0.00 min

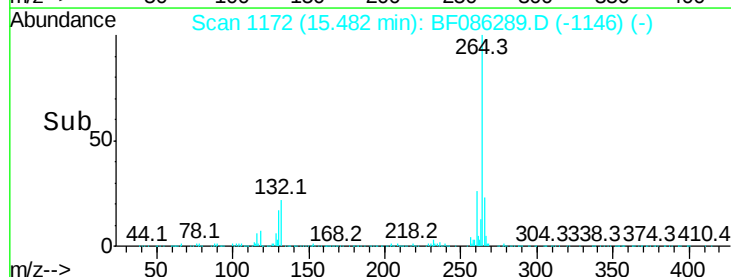
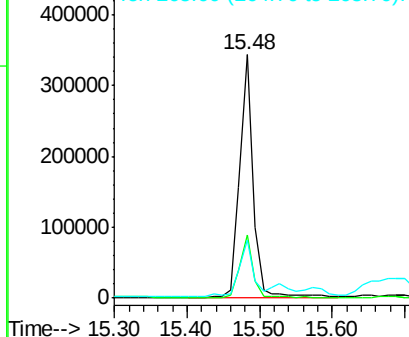
Lab File: BF086289.D

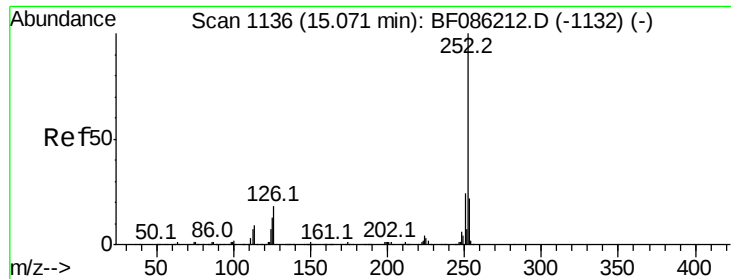
Acq: 18 Apr 2016 18:39

Tgt Ion:	264	Resp:	444215
Ion Ratio	Lower	Upper	
264	100		
260	26.0	20.0	30.0
265	23.8	17.4	26.0



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: 33.94 ng m

RT: 15.07 min Scan# 1136

Delta R.T. -0.00 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Instrument :

BNA_F

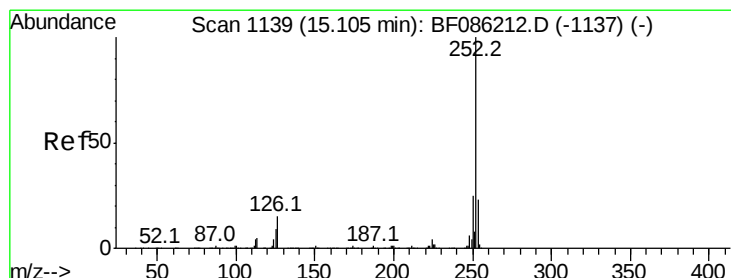
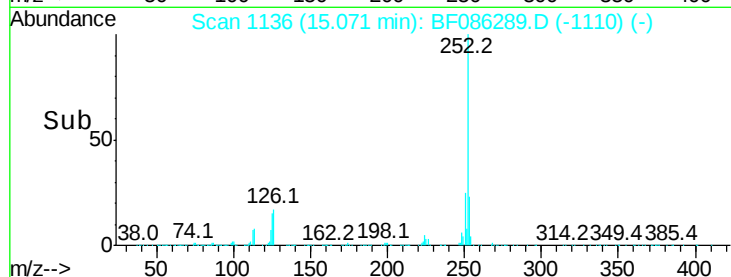
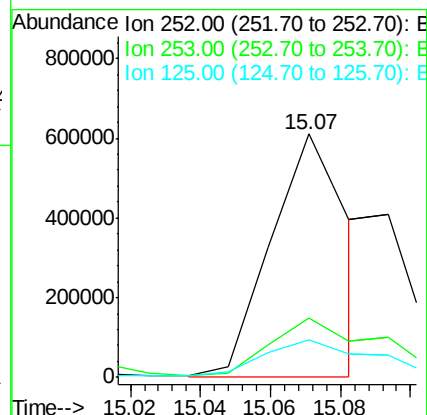
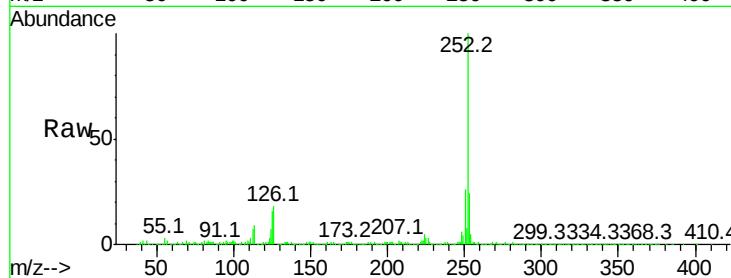
ClientSampleId :

SP-2-H-8(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.7	26.5
125	15.5	10.3	15.5#

Manual Integrations
APPROVED

Sohil
4/19/2016 6:22:58 PM



#88

Benzo(k)fluoranthene

Concen: 14.46 ng m

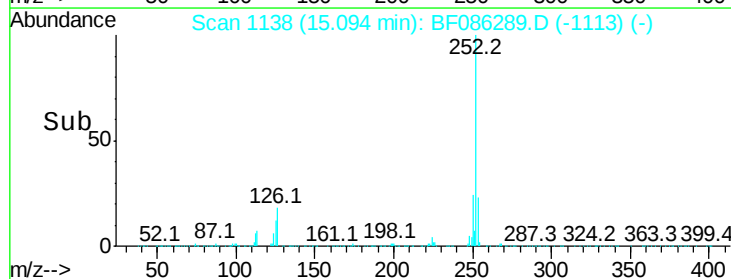
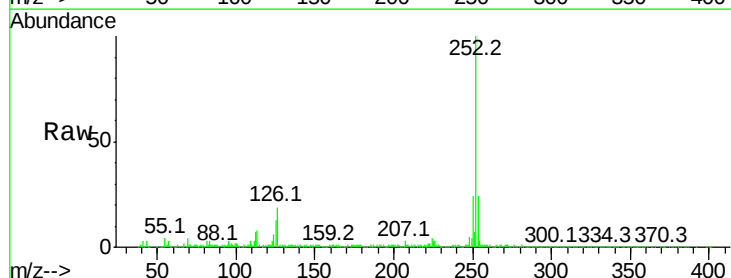
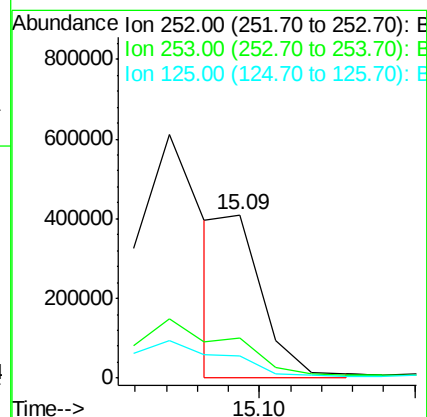
RT: 15.09 min Scan# 1138

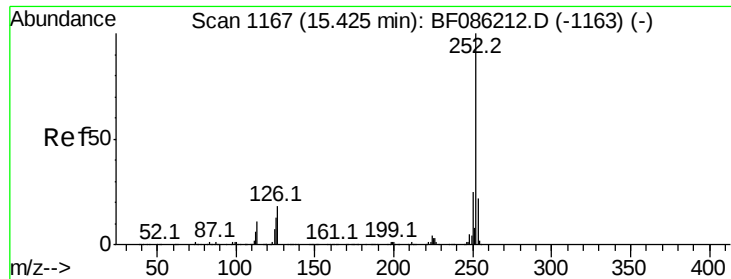
Delta R.T. -0.01 min

Lab File: BF086289.D

Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.5	26.3
125	13.4	7.8	11.6#





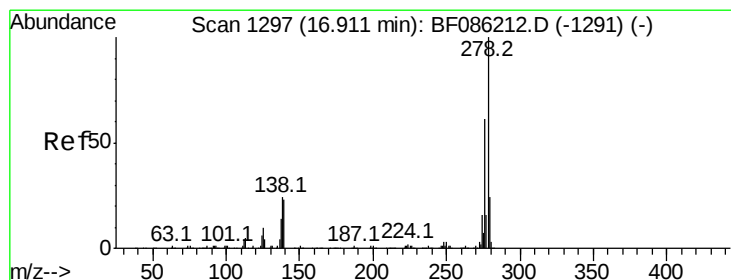
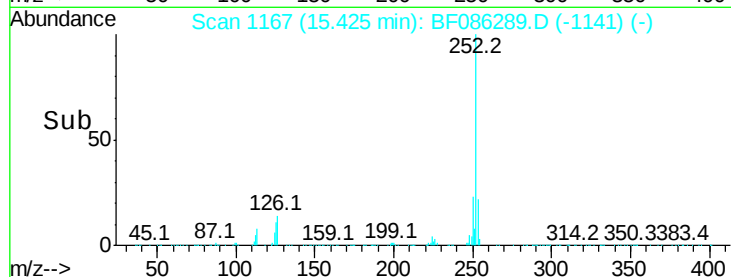
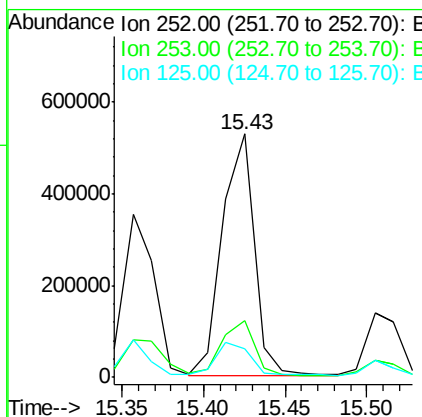
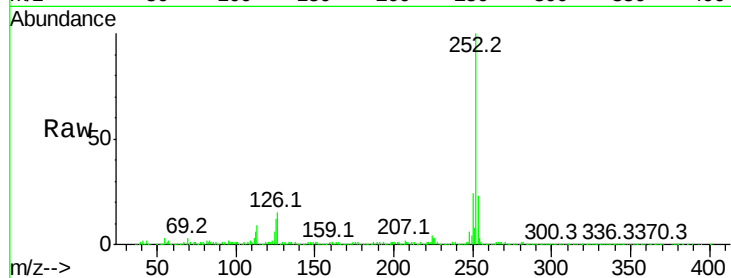
#89
Benzo(a)pyrene
Concen: 30.35 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.00 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Instrument :
BNA_F
ClientSampleId :
SP-2-H-8(0-2)

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.1	17.8	26.8
125	11.5	11.2	16.8

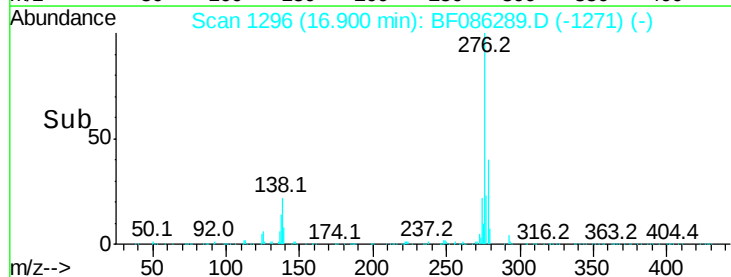
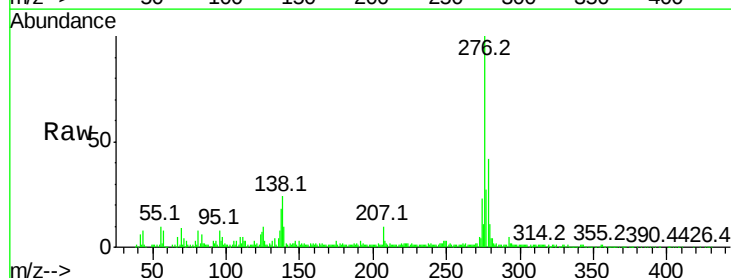
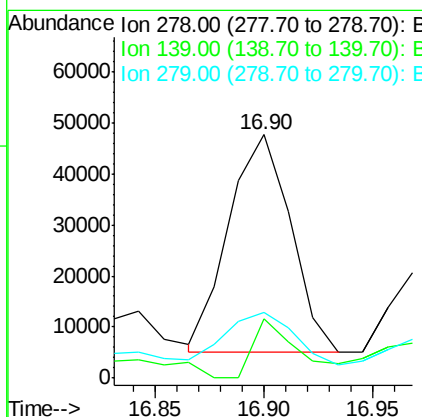
Manual Integrations
APPROVED

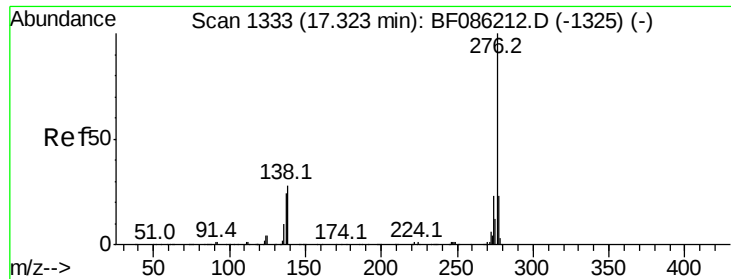
Sohil
4/19/2016 6:22:58 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.04 ng
RT: 16.90 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF086289.D
Acq: 18 Apr 2016 18:39

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	24.5	15.3	22.9#
279	27.1	19.1	28.7





#91
 Benzo(a,h,i)perylene
 Concen: 15.25 ng
 RT: 17.31 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: BF086289.D
 Acq: 18 Apr 2016 18:39

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-H-8(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.0	28.6
138	30.8	19.6	29.4

Manual Integrations
 APPROVED

Sohil
 4/19/2016 6:22:58 PM

