

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE091479.D
 Acq On : 18 Mar 2016 11:30
 Operator : UM/SJ
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE031816

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:22 PM

Quant Time: Mar 18 14:15:43 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:10:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	62712	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	278899	5.00	ng	0.00
10) Acenaphthene-d10	14.45	164	159785	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	403540	5.00	ng	0.00
22) Chrysene-d12	21.33	240	573573	5.00	ng	0.00
28) Perylene-d12	23.80	264	503188	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.43	112	4828	0.34	ng	0.00
5) Phenol-d6	6.99	99	6081	0.32	ng	0.00
7) Nitrobenzene-d5	8.98	82	4104	0.48	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	1298m	0.46	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	14561	0.36	ng	0.00
24) Terphenyl-d14	19.80	244	23646	0.34	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.37	88	3011	0.38	ng	96
3) n-Nitrosodimethylamine	3.68	42	3642	0.33	ng	# 98
8) Naphthalene	10.65	128	26273	0.39	ng	97
9) 2-Methylnaphthalene	12.26	142	15165	0.35	ng	# 89
13) Acenaphthylene	14.15	152	21104	0.39	ng	# 92
14) Acenaphthene	14.50	154	17839	0.36	ng	95
15) Fluorene	15.48	166	22489	0.36	ng	100
17) Hexachlorobenzene	16.48	284	6355	0.36	ng	98
18) Pentachlorophenol	16.83	266	2193	0.43	ng	92
19) Phenanthrene	17.22	178	43677	0.38	ng	100
20) Anthracene	17.31	178	34466	0.34	ng	100
21) Fluoranthene	19.22	202	45868	0.35	ng	100
23) Pyrene	19.59	202	47841	0.34	ng	99
25) Benzo(a)anthracene	21.31	228	57484m	0.36	ng	
26) Chrysene	21.36	228	61482m	0.41	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	56028	0.34	ng	99
29) Benzo(b)fluoranthene	23.03	252	60067	0.38	ng	97
30) Benzo(k)fluoranthene	23.09	252	51701	0.32	ng	97
31) Benzo(a)pyrene	23.68	252	45229	0.32	ng	98
32) Dibenzo(a,h)anthracene	26.41	278	46779	0.34	ng	99
33) Benzo(g,h,i)perylene	27.17	276	50013	0.35	ng	99

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

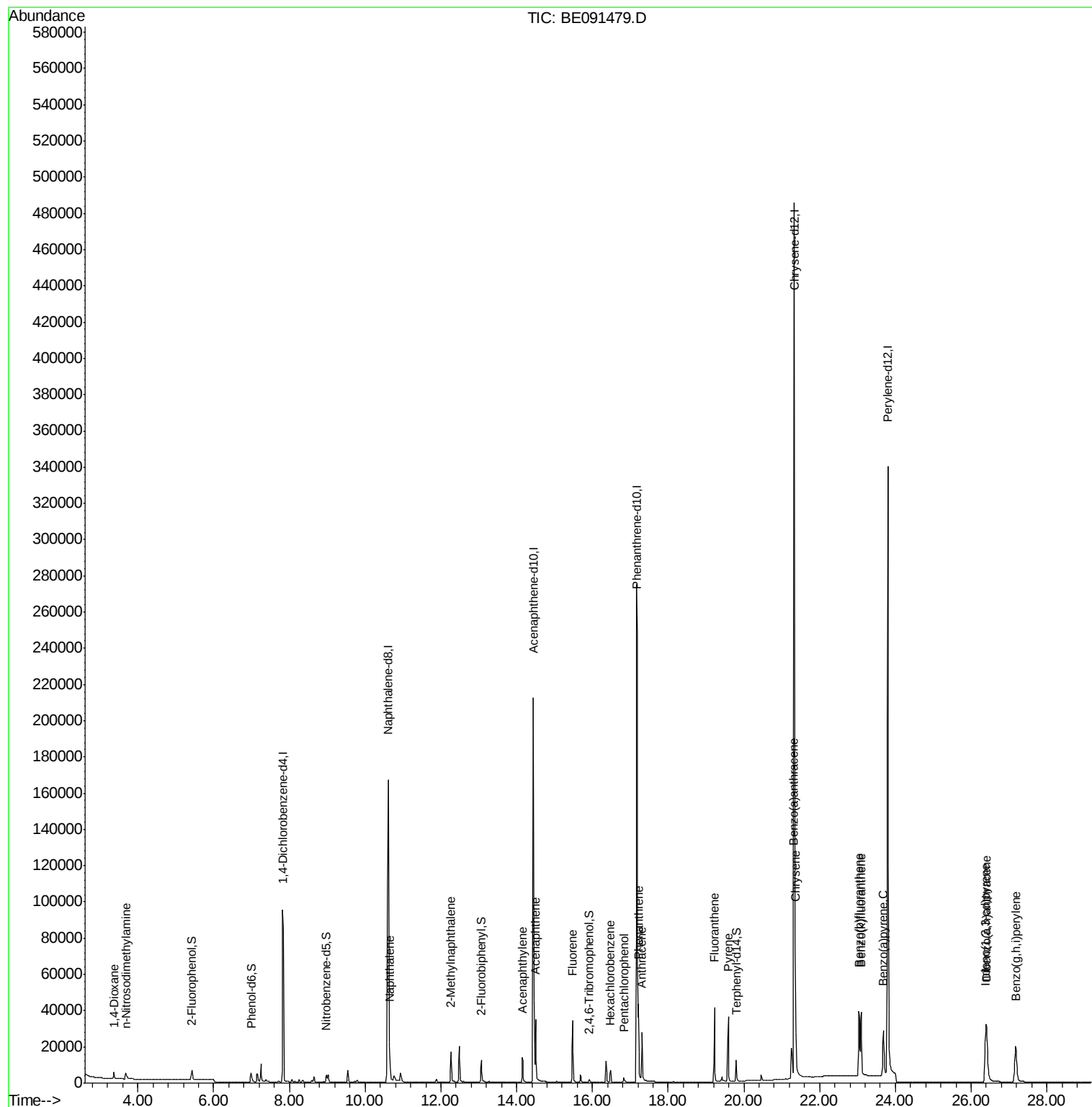
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
Data File : BE091479.D
Acq On : 18 Mar 2016 11:30
Operator : UM/SJ
Sample : SSTDICV0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

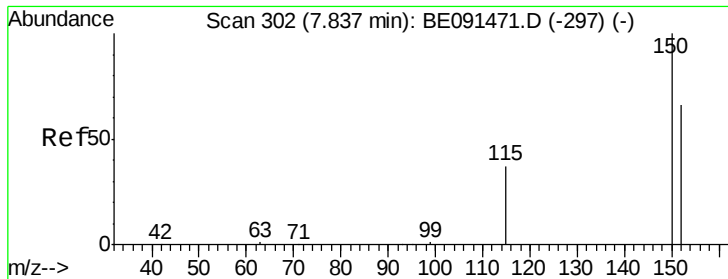
Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM

Quant Time: Mar 18 14:15:43 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 14:10:06 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091479.D

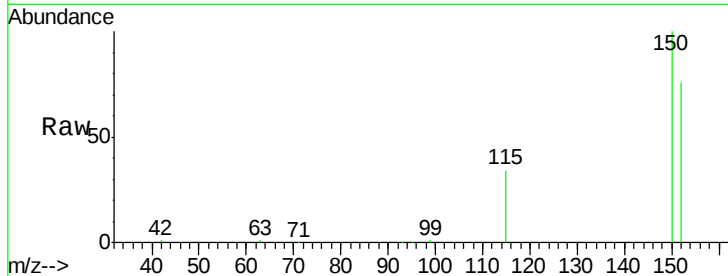
Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

ClientSampleId :

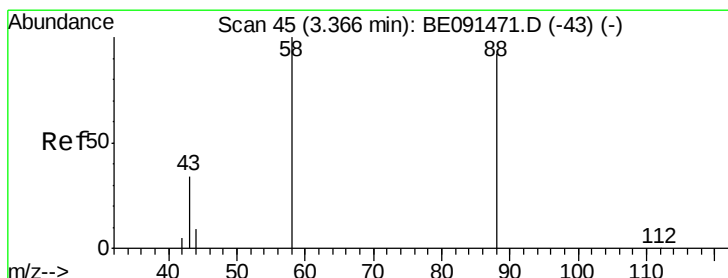
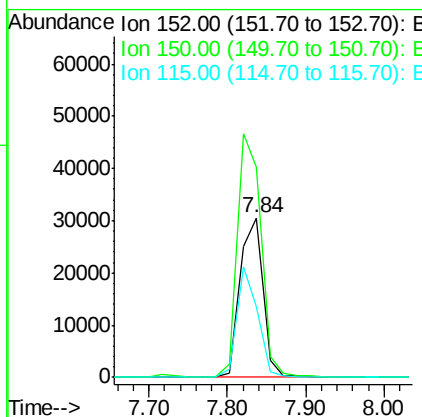
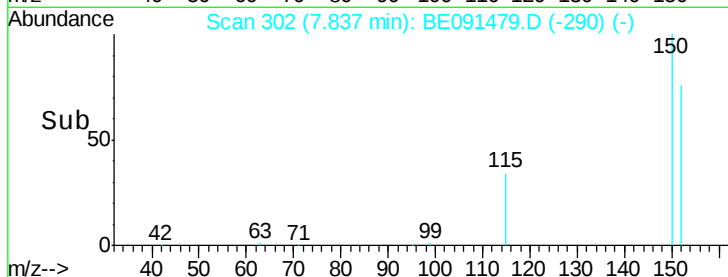
ICVBE031816



Tgt Ion:	152	Resp:	62712
Ion Ratio	Lower	Upper	
152	100		
150	132.3	122.2	183.2
115	44.6	45.9	68.9#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#2

1,4-Dioxane

Concen: 0.38 ng

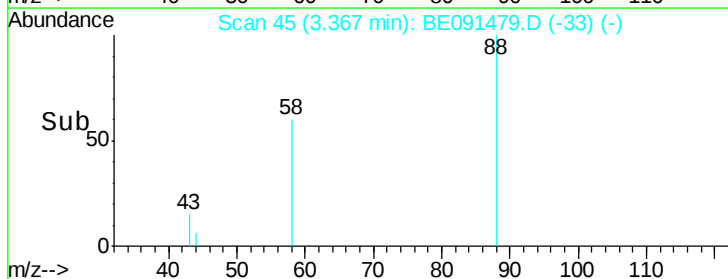
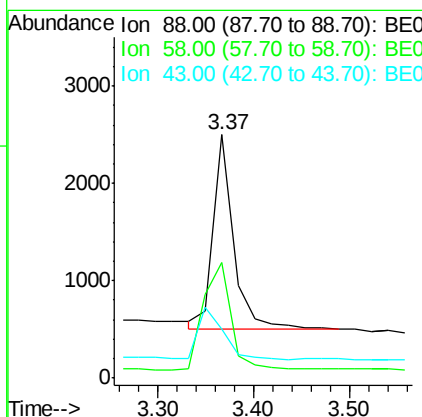
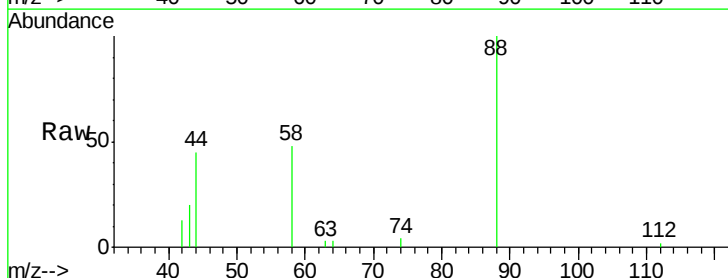
RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Tgt Ion:	88	Resp:	3011
Ion Ratio	Lower	Upper	
88	100		
58	73.4	61.0	91.6
43	34.7	25.4	38.2





#3

n-Nitrosodimethylamine

Concen: 0.33 ng

RT: 3.68 min Scan# 63

Delta R.T. 0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

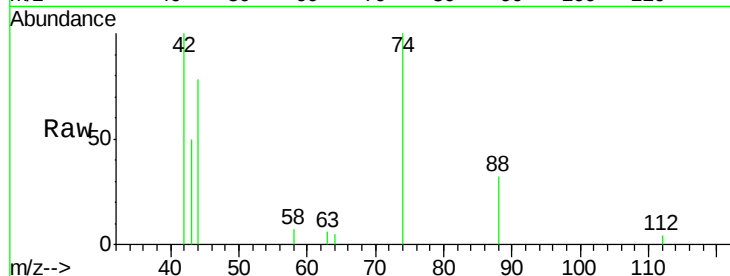
ClientSampleId :

ICVBE031816

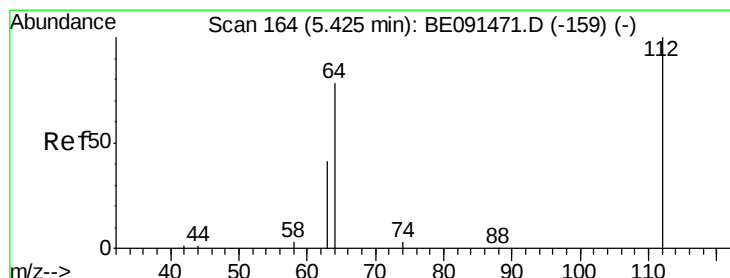
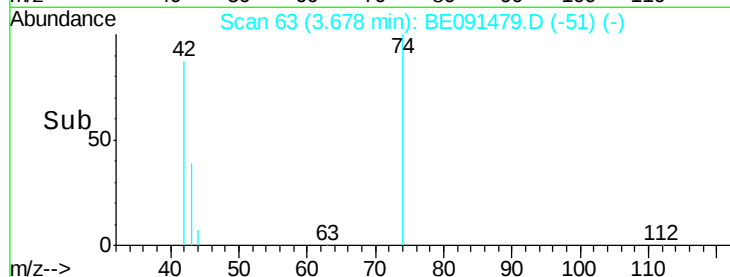
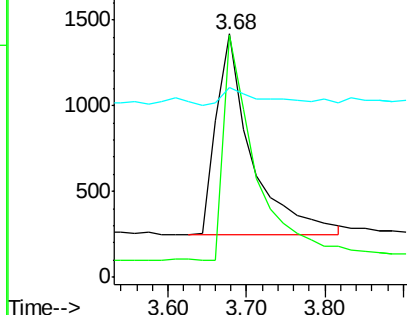
Tgt Ion:	42	Resp:	3642
Ion	Ratio	Lower	Upper
42	100		
74	103.2	84.3	126.5
44	10.5	6.7	10.1#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.34 ng

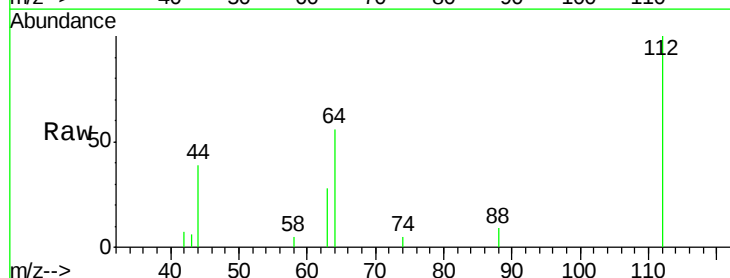
RT: 5.43 min Scan# 164

Delta R.T. 0.00 min

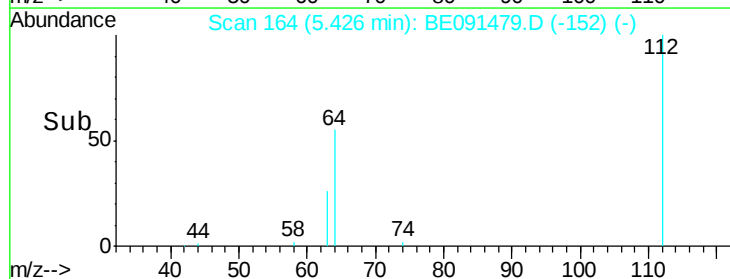
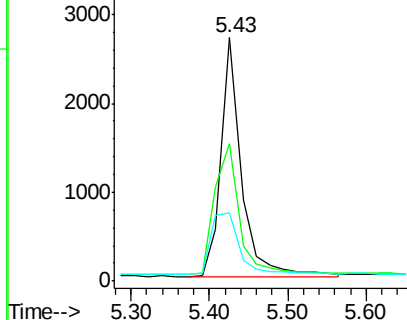
Lab File: BE091479.D

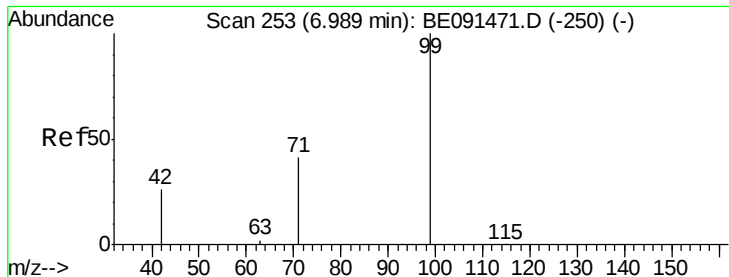
Acq: 18 Mar 2016 11:30

Tgt Ion:	112	Resp:	4828
Ion	Ratio	Lower	Upper
112	100		
64	67.1	53.3	79.9
63	36.8	29.8	44.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.32 ng

RT: 6.99 min Scan# 253

Delta R.T. 0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

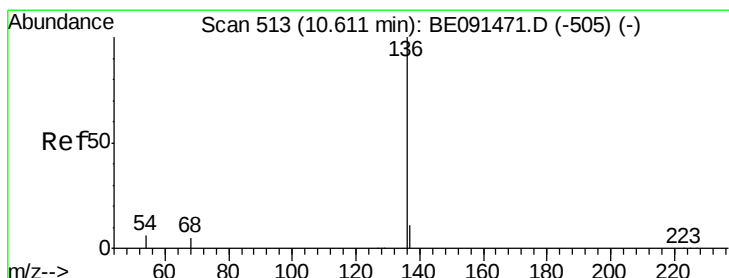
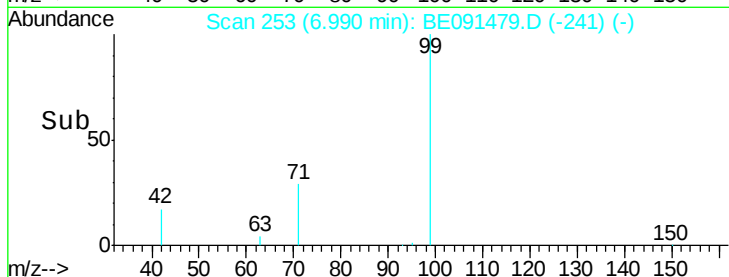
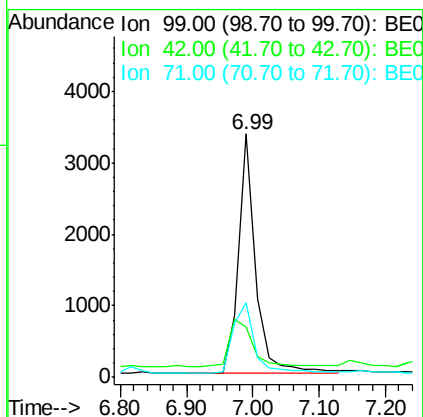
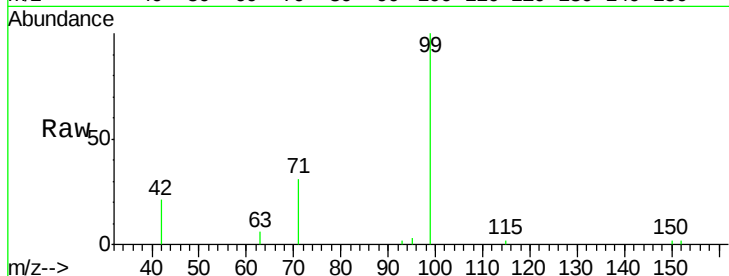
ClientSampleId :

ICVBE031816

Tgt Ion:	99	Resp:	6081
Ion Ratio	Lower	Upper	
99	100		
42	28.1	20.6	30.8
71	35.9	29.0	43.4

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#6

Naphthalene-d8

Concen: 5.00 ng

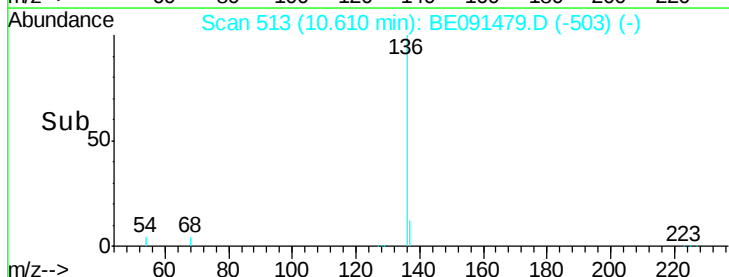
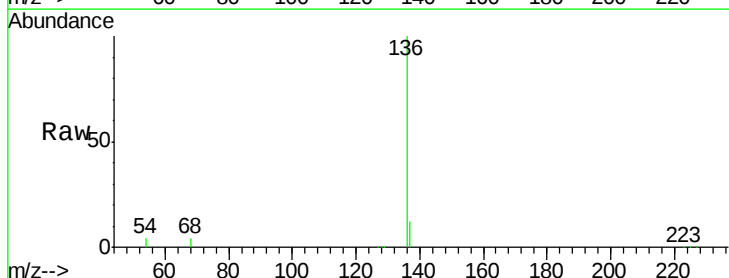
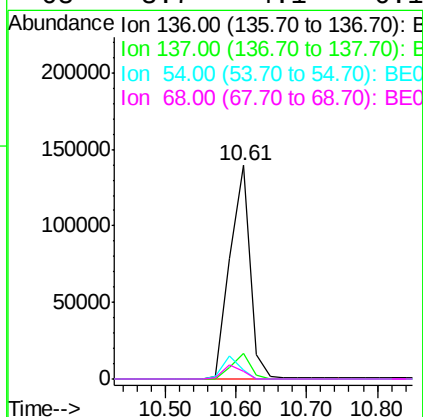
RT: 10.61 min Scan# 513

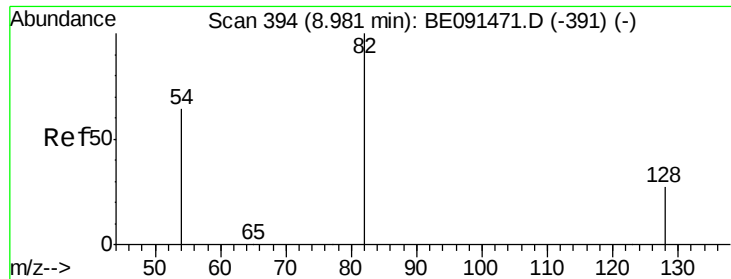
Delta R.T. -0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Tgt Ion:	136	Resp:	278899
Ion Ratio	Lower	Upper	
136	100		
137	11.8	8.8	13.2
54	4.3	5.2	7.8#
68	3.7	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 0.48 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

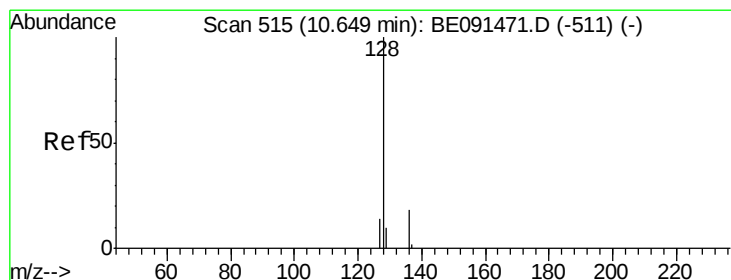
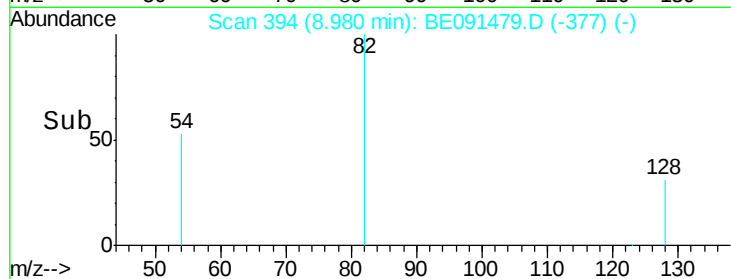
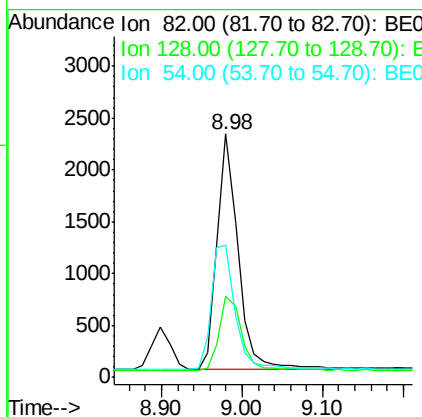
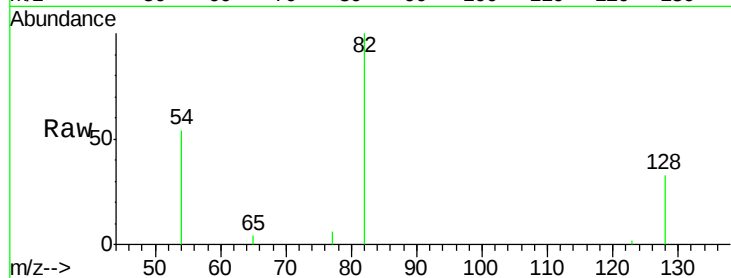
ClientSampleId :

ICVBE031816

Tgt Ion:	82	Resp:	4104
Ion Ratio	Lower	Upper	
82	100		
128	33.2	23.5	35.3
54	54.3	52.4	78.6

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#8

Naphthalene

Concen: 0.39 ng

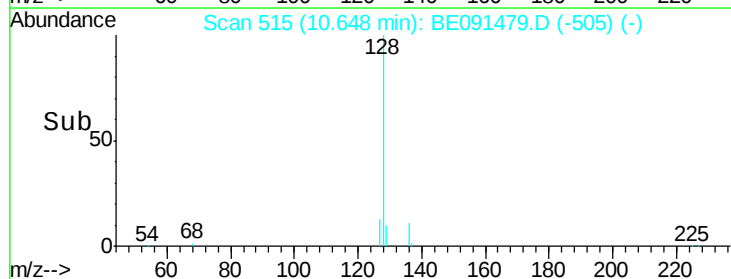
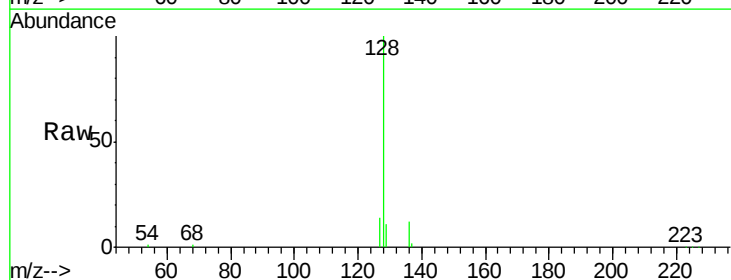
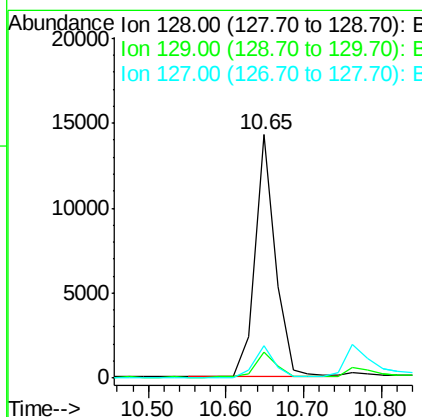
RT: 10.65 min Scan# 515

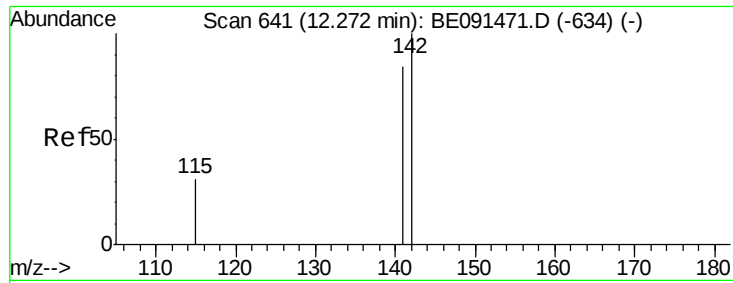
Delta R.T. -0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Tgt Ion:	128	Resp:	26273
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.2	12.2
127	13.5	11.8	17.8





#9

2-Methylnaphthalene

Concen: 0.35 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.01 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

ClientSampleId :

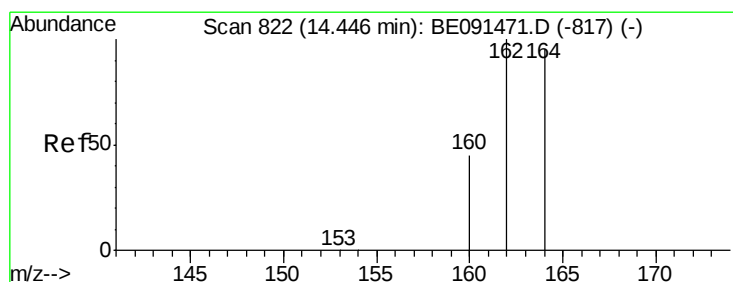
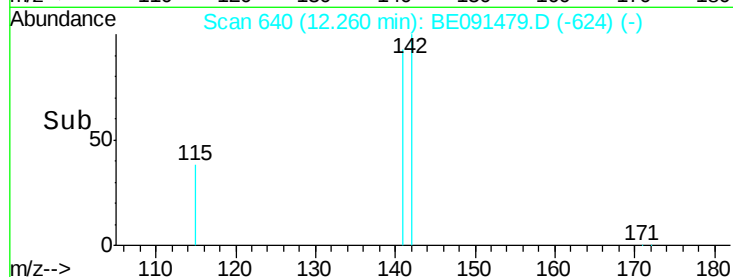
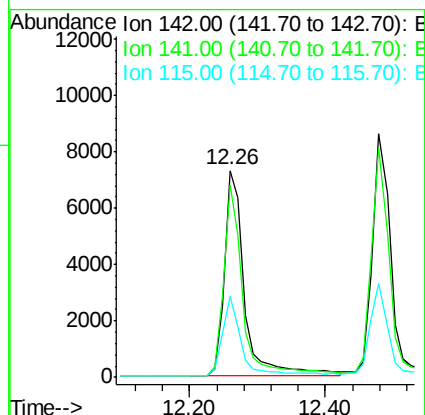
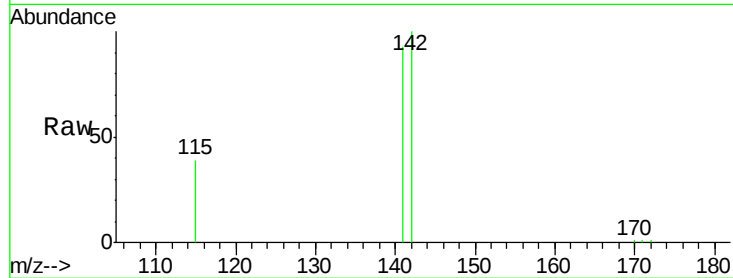
ICVBE031816

Tgt Ion:	142	Resp:	15165
Ion Ratio	Lower	Upper	
142	100		
141	93.1	66.9	100.3
115	39.0	25.1	37.7

Manual Integrations
APPROVED

apatel

3/21/2016 5:12:22 PM



#10

Acenaphthene-d10

Concen: 5.00 ng

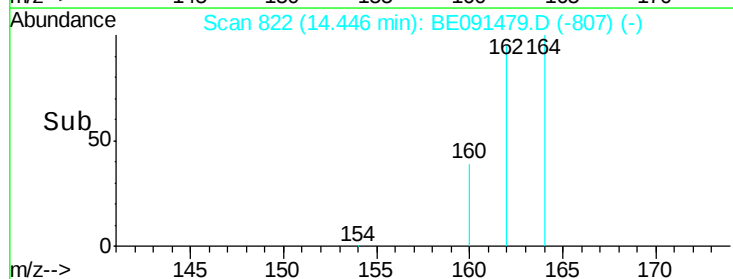
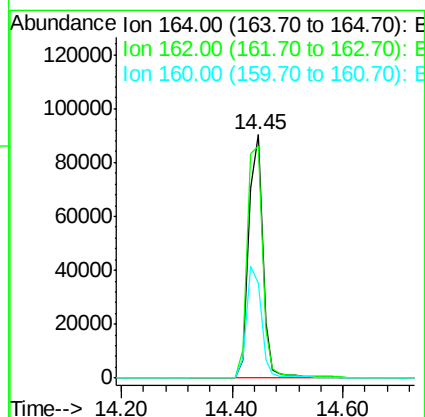
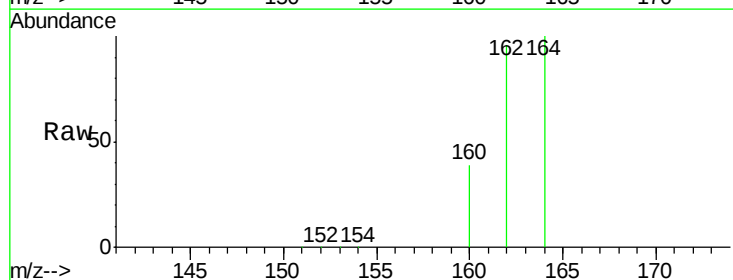
RT: 14.45 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Tgt Ion:	164	Resp:	159785
Ion Ratio	Lower	Upper	
164	100		
162	95.5	84.4	126.6
160	39.1	37.7	56.5





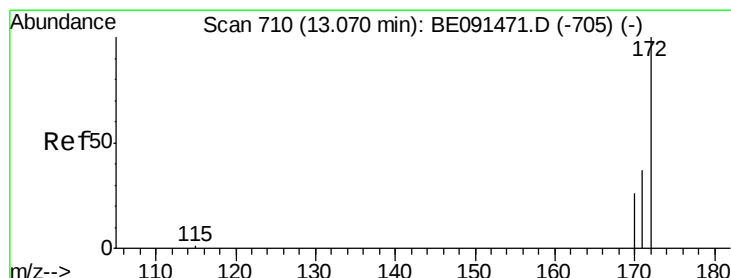
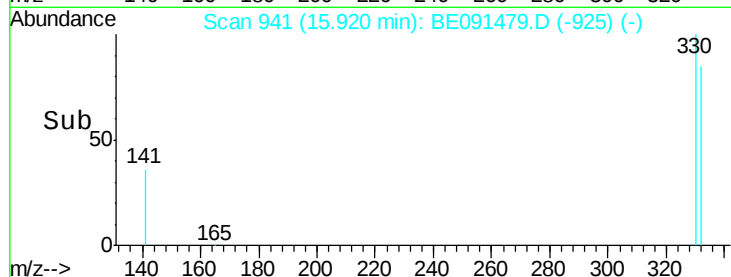
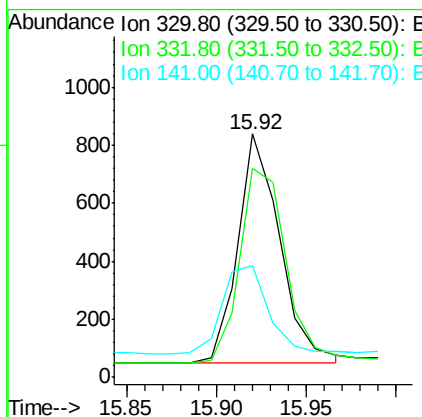
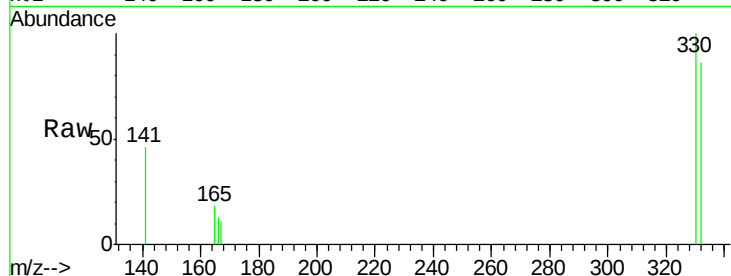
#11
 2,4,6-Tribromophenol
 Concen: 0.46 ng m
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091479.D
 Acq: 18 Mar 2016 11:30

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE031816

Tgt Ion	Ratio	Lower	Upper
330	100		
332	152.1	79.2	118.8#
141	55.8	28.1	42.1#

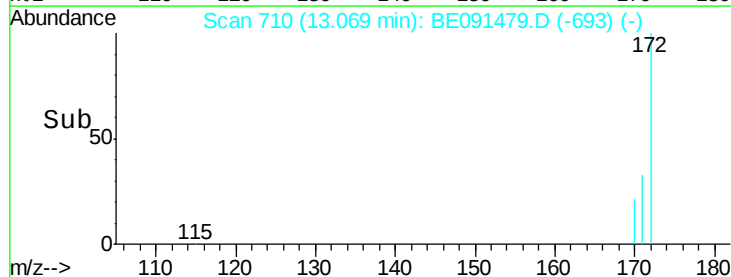
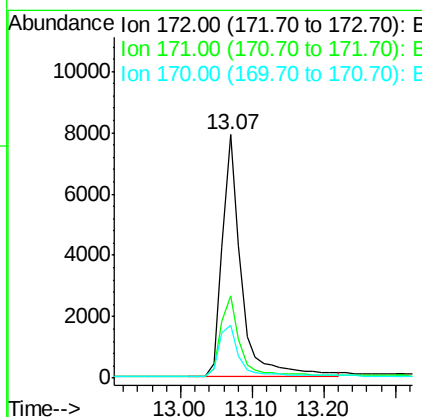
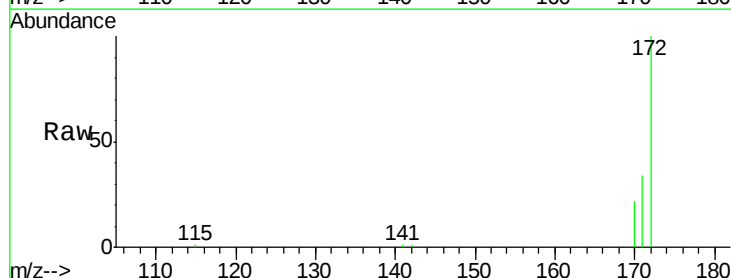
Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:22 PM



#12
 2-Fluorobiphenyl
 Concen: 0.36 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE091479.D
 Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	29.8	44.8
170	21.8	21.4	32.2





#13

Acenaphthylene

Concen: 0.39 ng

RT: 14.15 min Scan# 800

Delta R.T. -0.01 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

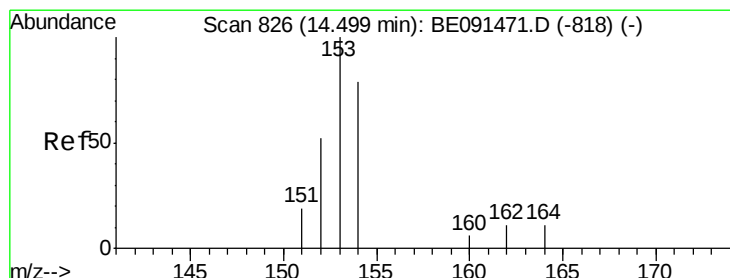
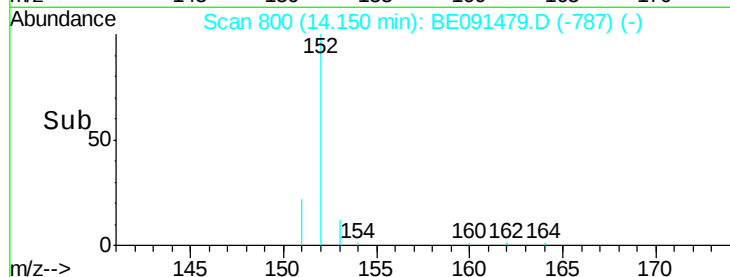
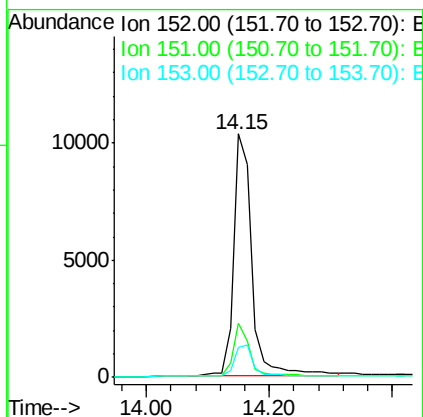
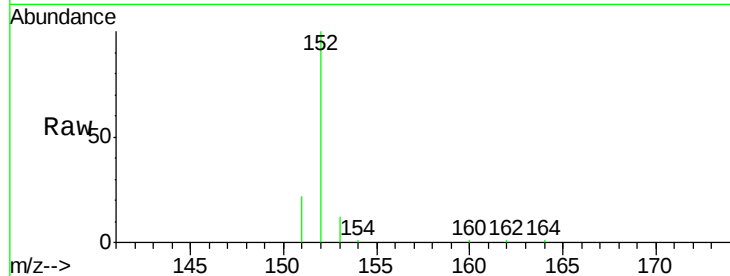
ClientSampleId :

ICVBE031816

Tgt Ion:	152	Resp:	21104
Ion Ratio	Lower	Upper	
152	100		
151	26.5	16.3	24.5#
153	14.1	11.1	16.7

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#14

Acenaphthene

Concen: 0.36 ng

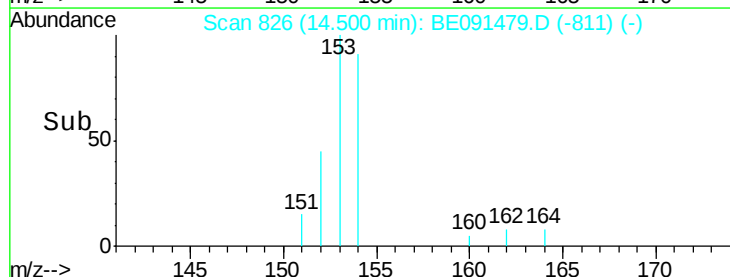
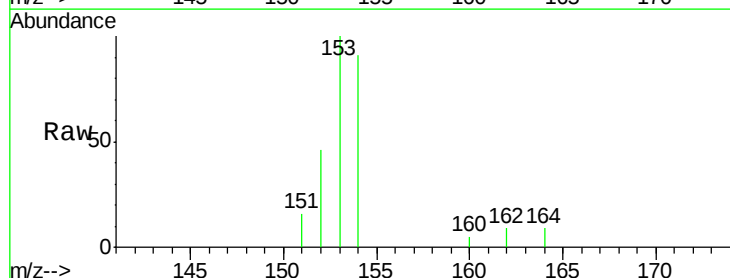
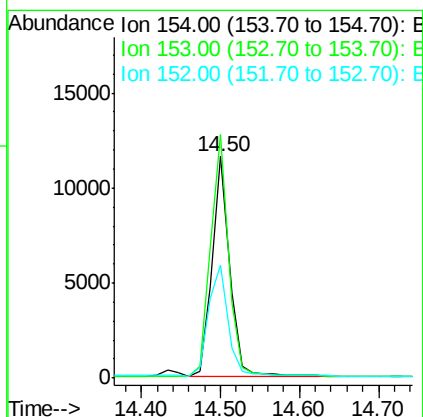
RT: 14.50 min Scan# 826

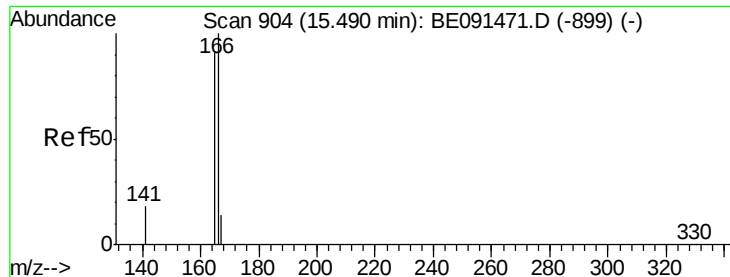
Delta R.T. 0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Tgt Ion:	154	Resp:	17839
Ion Ratio	Lower	Upper	
154	100		
153	114.8	87.3	130.9
152	56.0	42.9	64.3





#15

Fluorene

Concen: 0.36 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

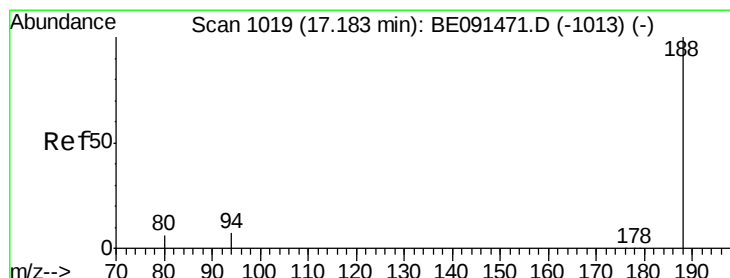
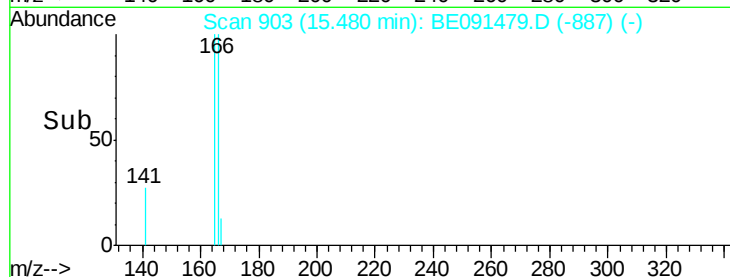
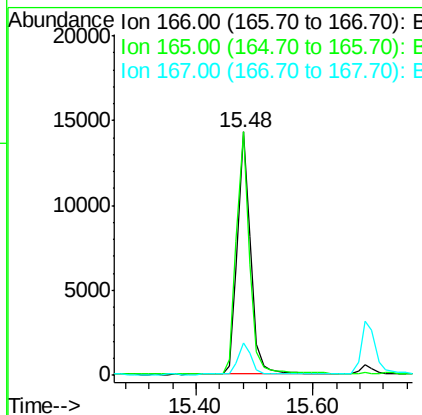
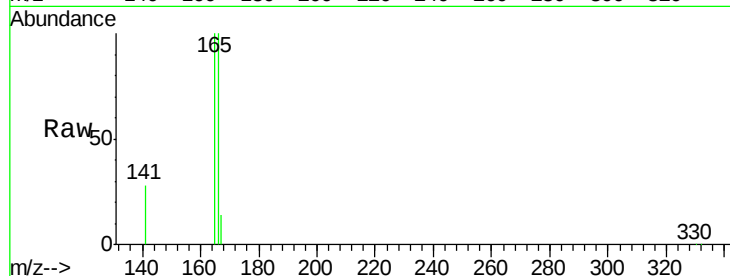
ClientSampleId :

ICVBE031816

Tgt Ion:	166	Resp:	22489
Ion Ratio	Lower	Upper	
166	100		
165	99.2	79.2	118.8
167	13.4	10.8	16.2

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#16

Phenanthrene-d10

Concen: 5.00 ng

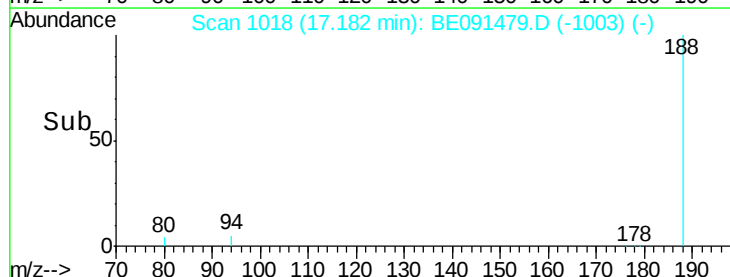
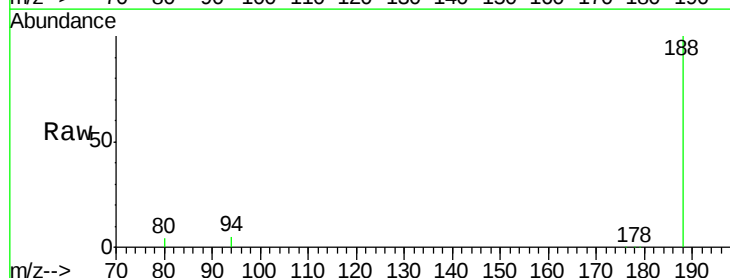
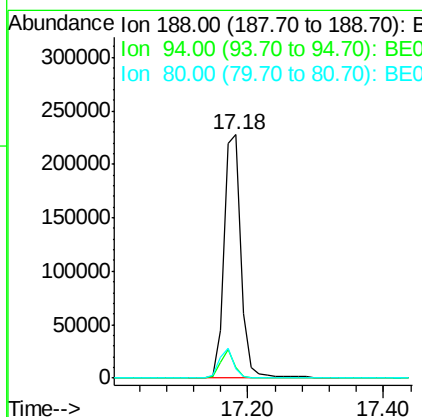
RT: 17.18 min Scan# 1018

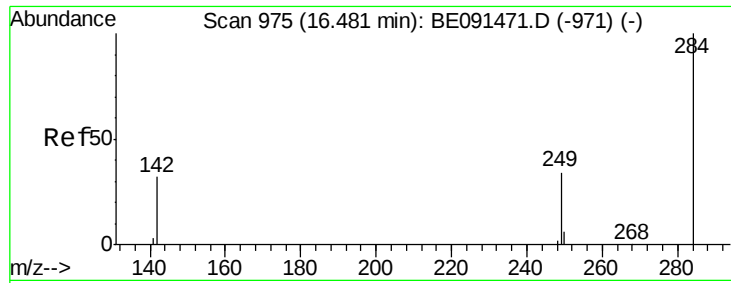
Delta R.T. -0.00 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Tgt Ion:	188	Resp:	403540
Ion Ratio	Lower	Upper	
188	100		
94	4.6	5.4	8.2#
80	4.0	5.0	7.4#





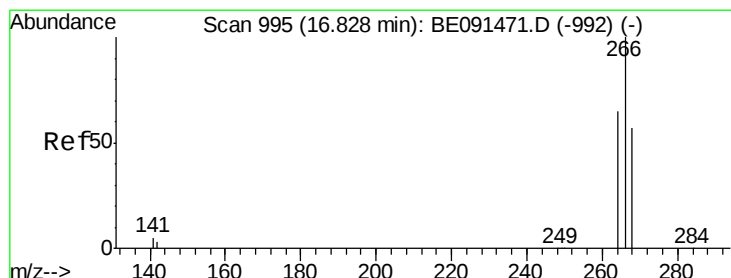
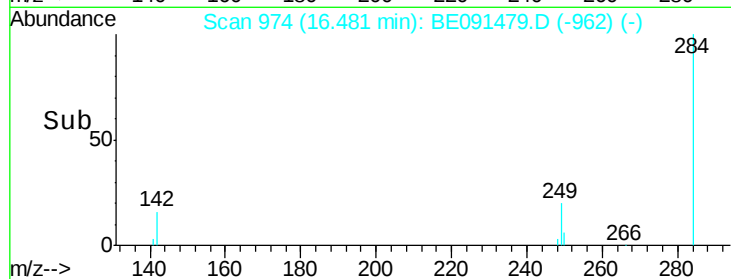
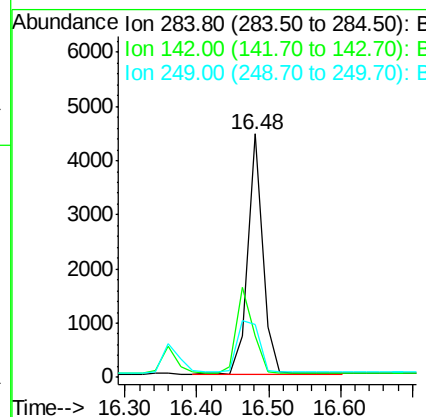
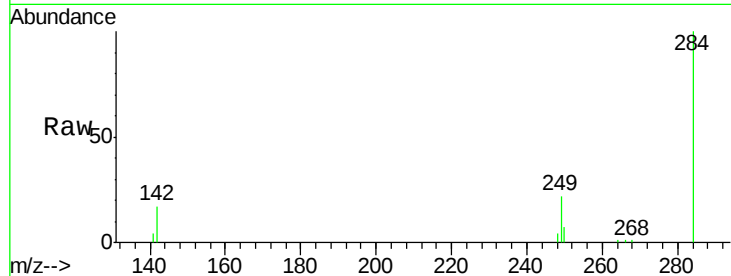
#17
Hexachlorobenzene
Concen: 0.36 ng
RT: 16.48 min Scan# 974
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	6355		
142	39.8		31.0	46.4
249	31.4		25.8	38.8

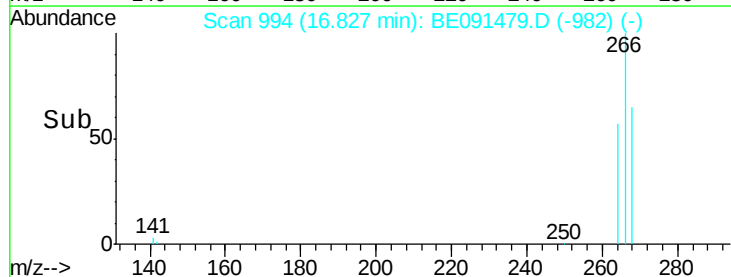
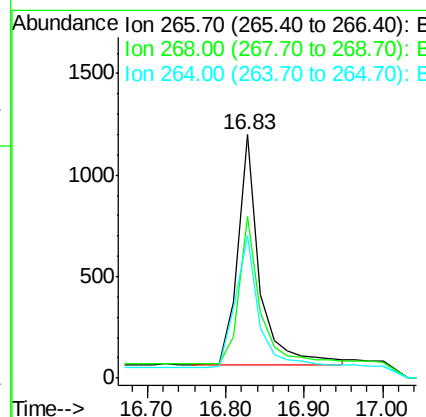
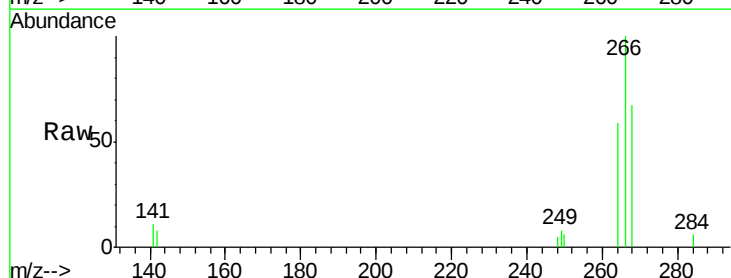
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#18
Pentachlorophenol
Concen: 0.43 ng
RT: 16.83 min Scan# 994
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	2193		
268	66.6		48.2	72.2
264	58.5		52.1	78.1





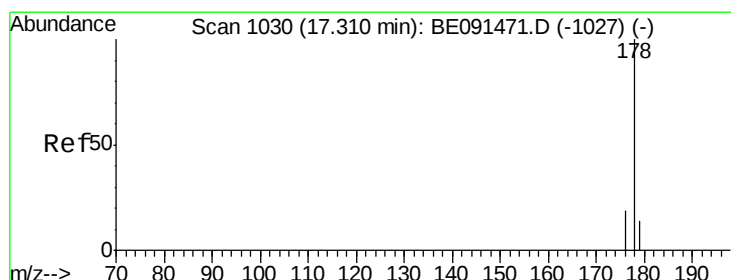
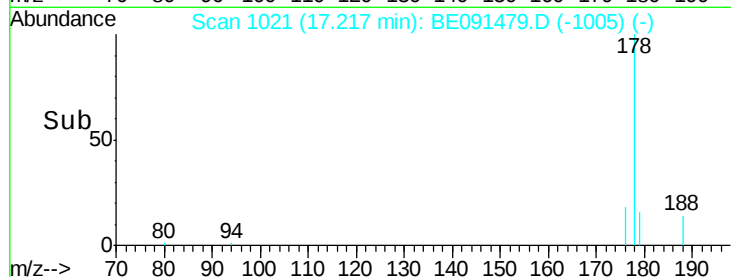
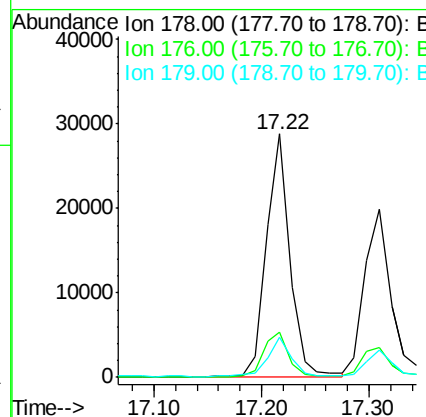
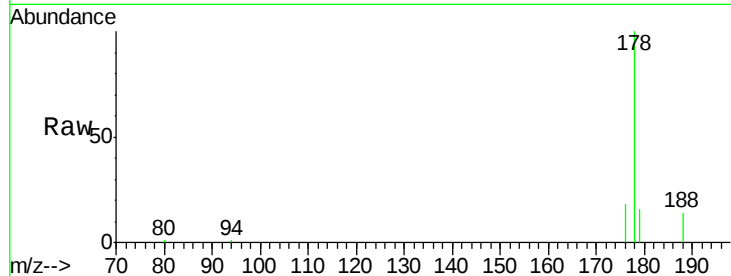
#19
Phenanthrene
Concen: 0.38 ng
RT: 17.22 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	16.3	13.1	19.7

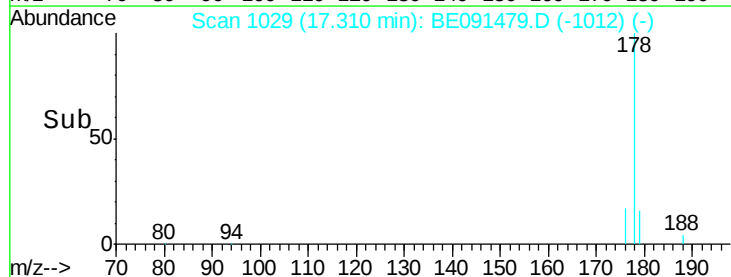
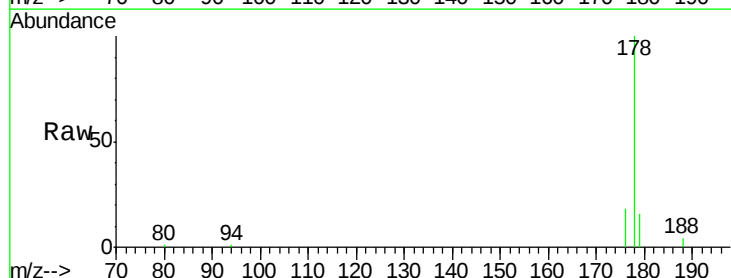
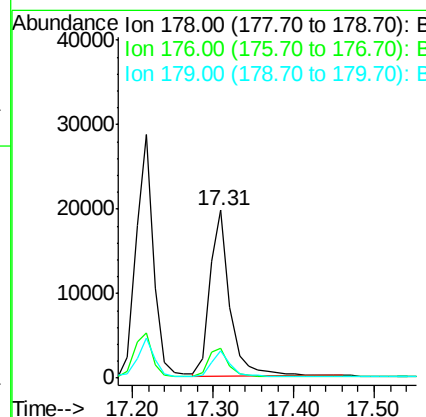
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM



#20
Anthracene
Concen: 0.34 ng
RT: 17.31 min Scan# 1029
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.1	12.2	18.4





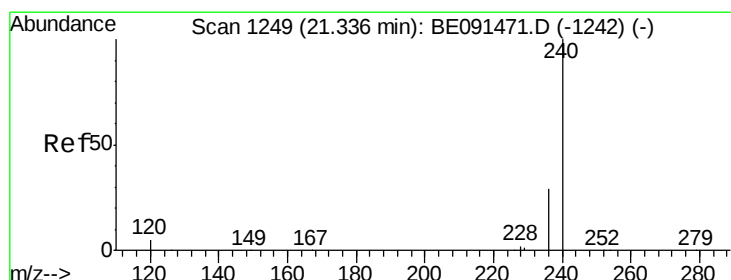
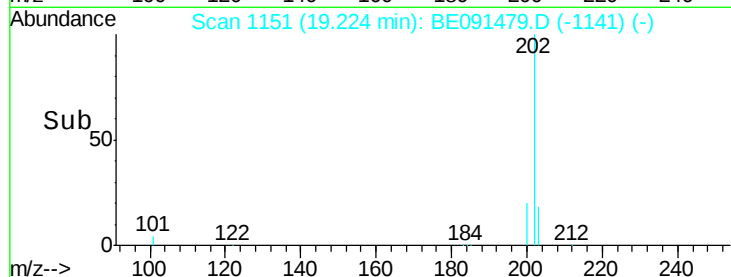
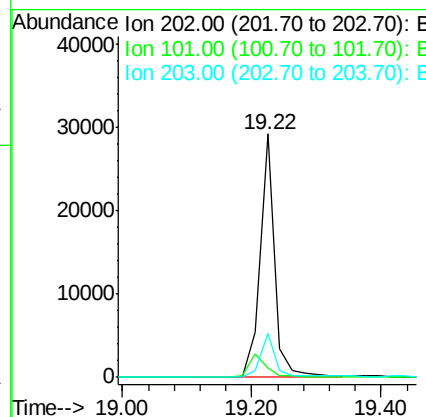
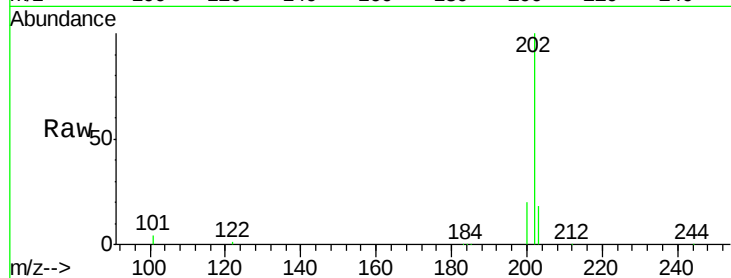
#21
Fluoranthene
Concen: 0.35 ng
RT: 19.22 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	10.8	8.3	12.5
203	17.4	13.9	20.9

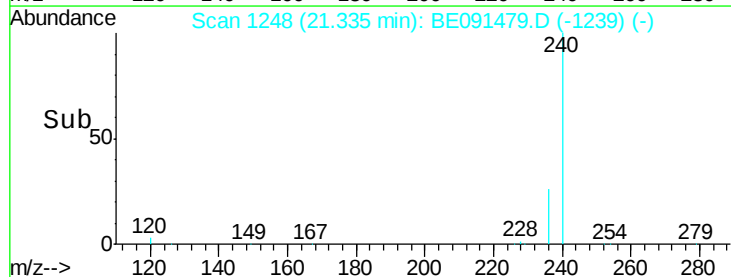
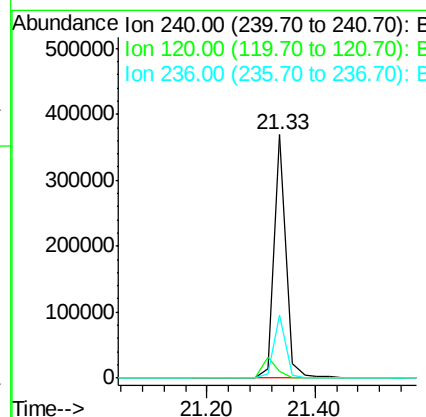
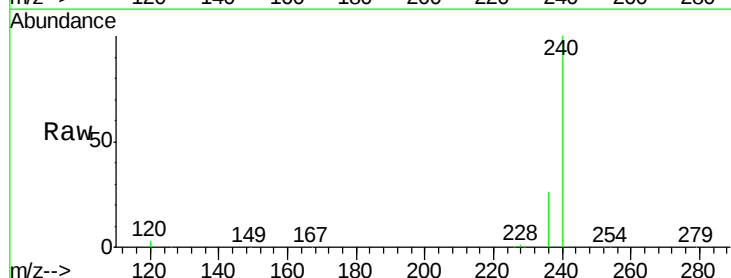
Manual Integrations
APPROVED

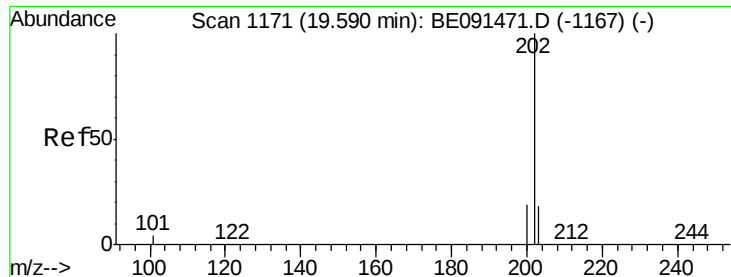
apatel
3/21/2016 5:12:22 PM



#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.33 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	2.8	4.0	6.0#
236	26.1	23.0	34.4





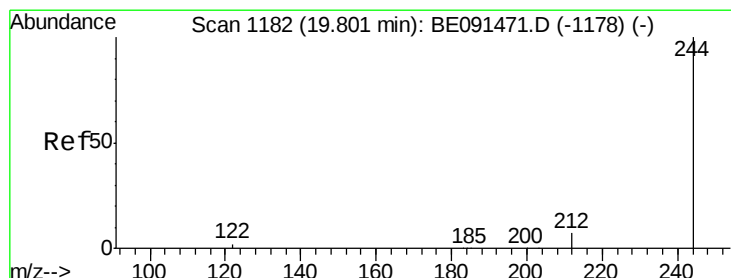
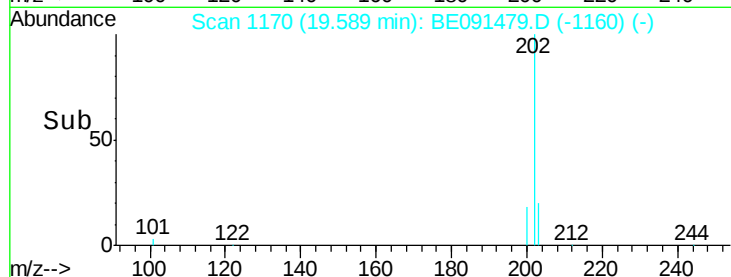
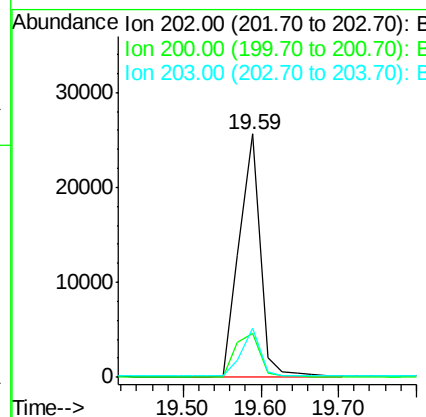
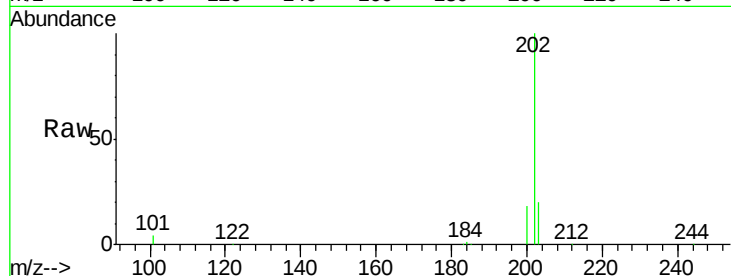
#23
 Pyrene
 Concen: 0.34 ng
 RT: 19.59 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BE091479.D
 Acq: 18 Mar 2016 11:30

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE031816

Tgt Ion:	202	Resp:	47841
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.4	24.6
203	18.0	14.6	21.8

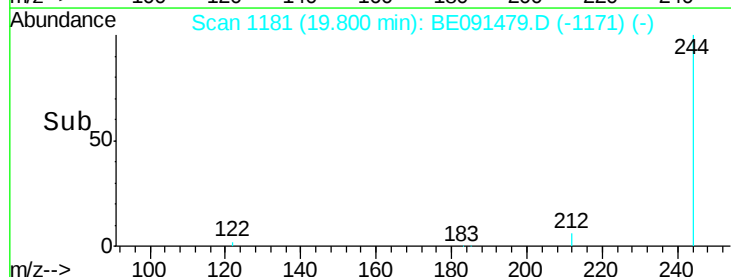
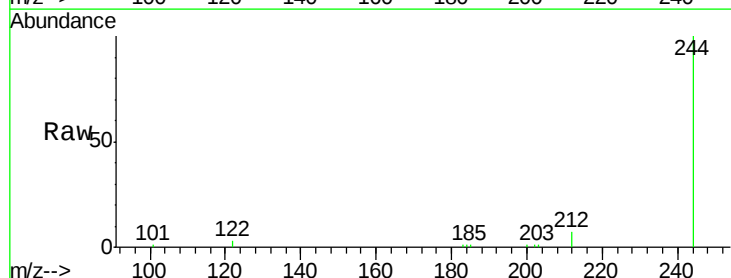
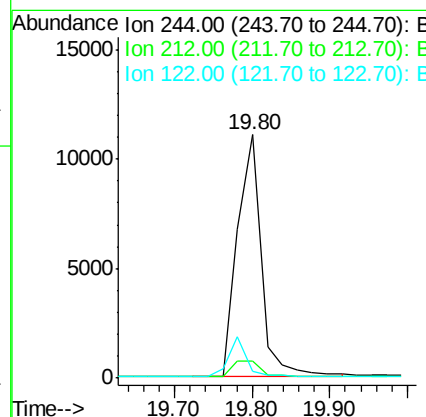
Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:22 PM



#24
 Terphenyl-d14
 Concen: 0.34 ng
 RT: 19.80 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: BE091479.D
 Acq: 18 Mar 2016 11:30

Tgt Ion:	244	Resp:	23646
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.8	8.8
122	2.7	1.8	2.8





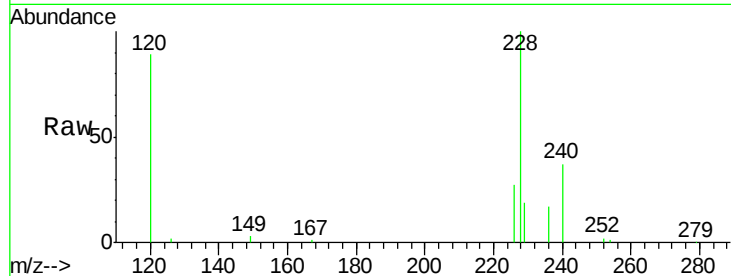
#25
Benzo(a)anthracene
Concen: 0.36 ng m
RT: 21.31 min Scan# 1247
Delta R.T. -0.00 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	24.0	36.0
229	19.1	13.8	20.6

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM

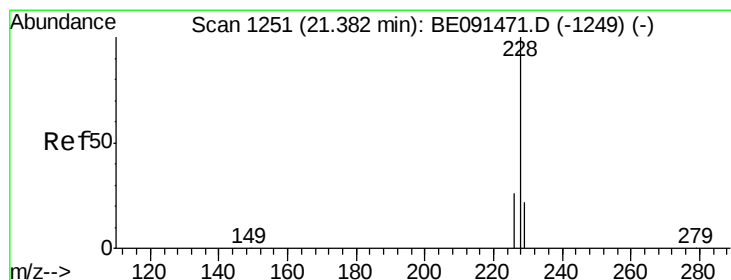
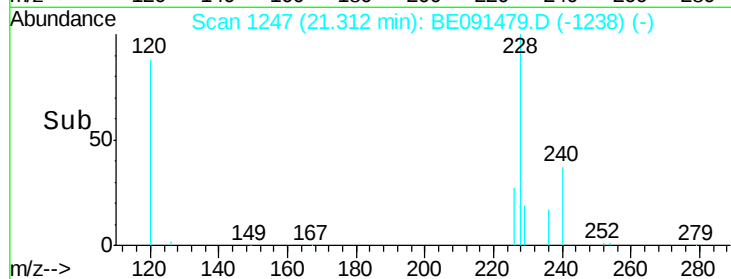
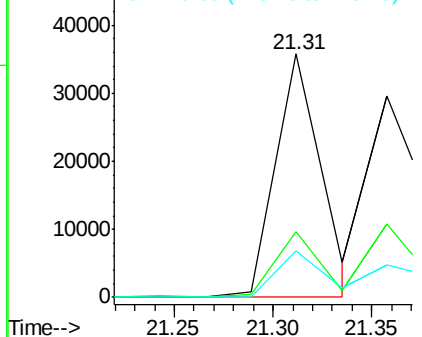


Abundance

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



#26
Chrysene
Concen: 0.41 ng m
RT: 21.36 min Scan# 1249
Delta R.T. -0.02 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

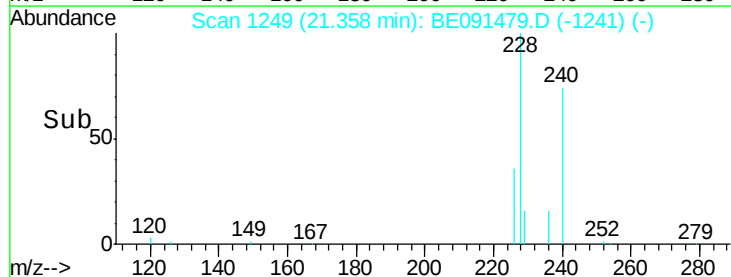
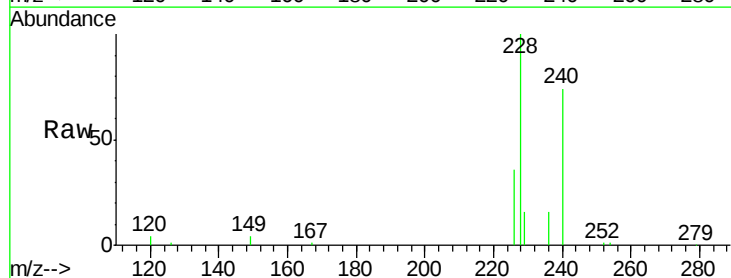
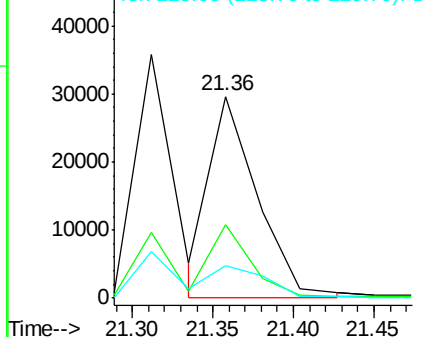
Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.1	18.9	28.3#
229	16.1	19.1	28.7#

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





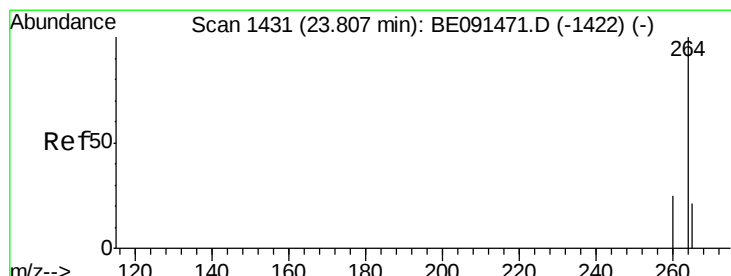
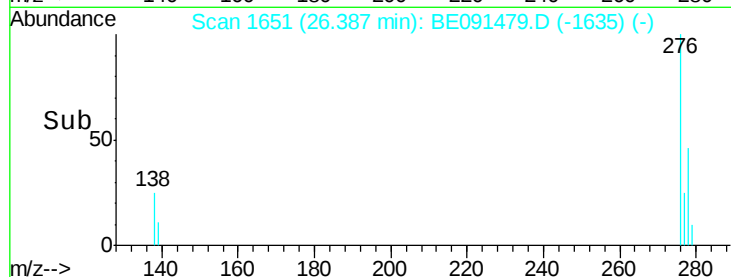
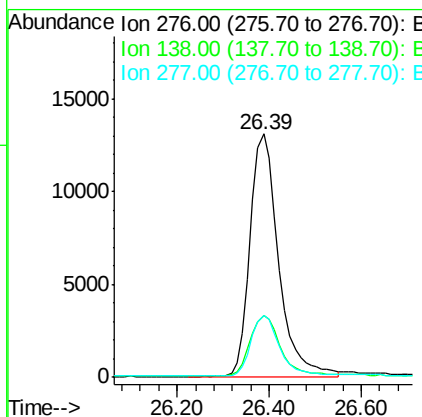
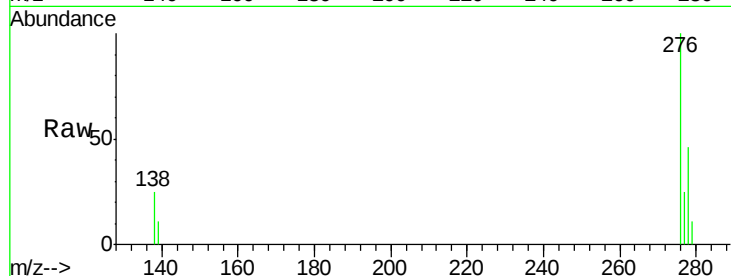
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.34 ng
 RT: 26.39 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: BE091479.D
 Acq: 18 Mar 2016 11:30

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE031816

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.4	20.2	30.4
277	24.8	19.8	29.8

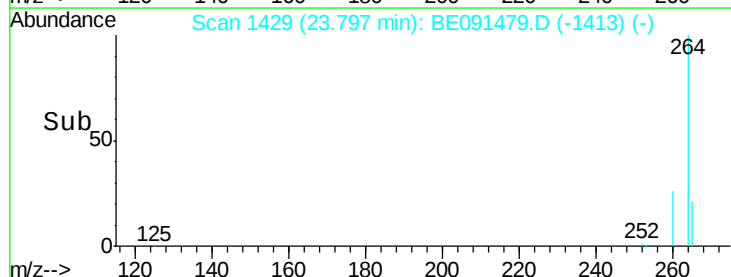
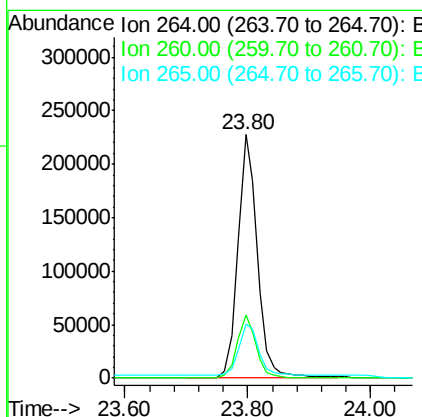
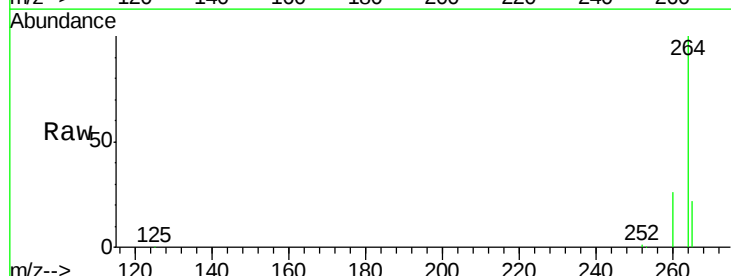
Manual Integrations
 APPROVED

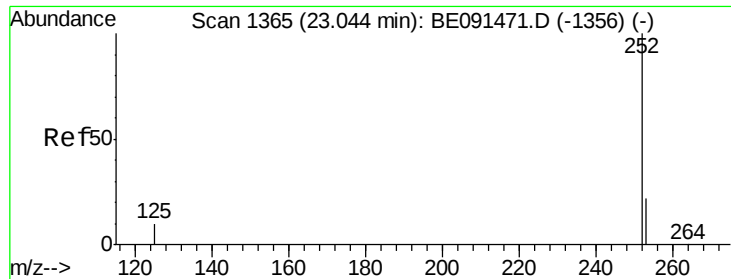
apatel
 3/21/2016 5:12:22 PM



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.80 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BE091479.D
 Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.9	20.1	30.1
265	22.0	18.3	27.5





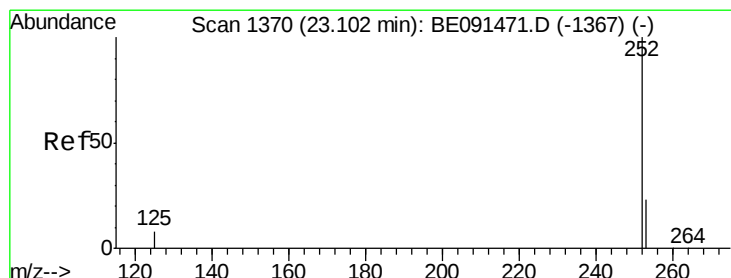
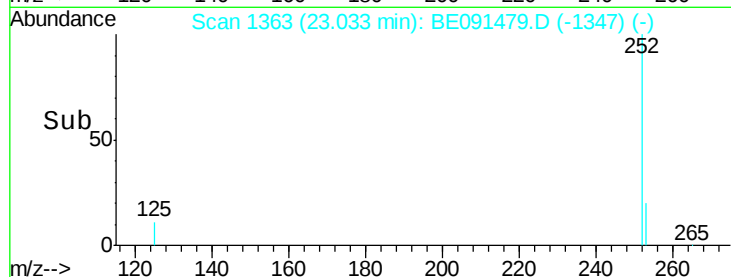
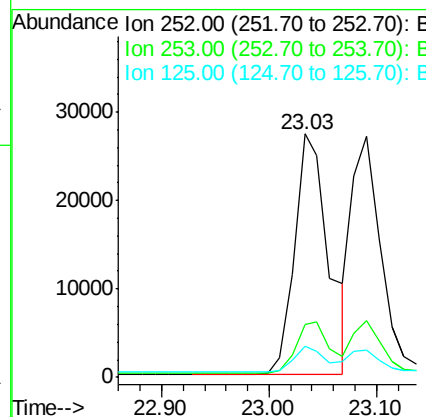
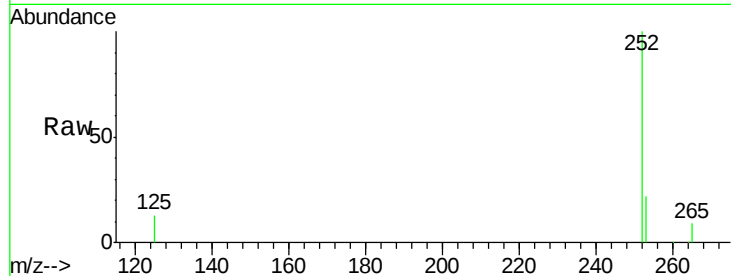
#29
Benzo(b)fluoranthene
Concen: 0.38 ng
RT: 23.03 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.7	28.1
125	12.6	9.8	14.6

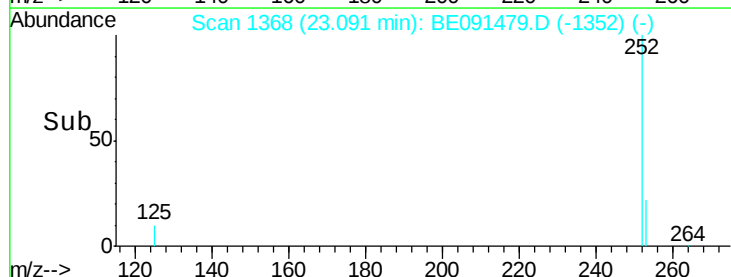
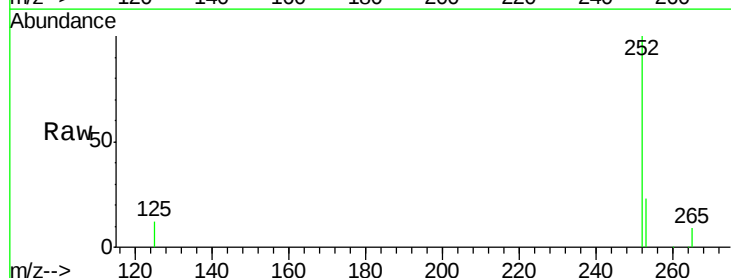
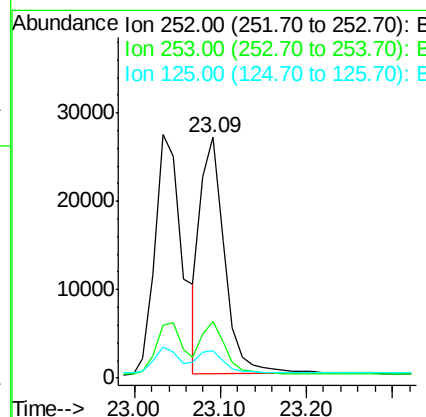
Manual Integrations
APPROVED

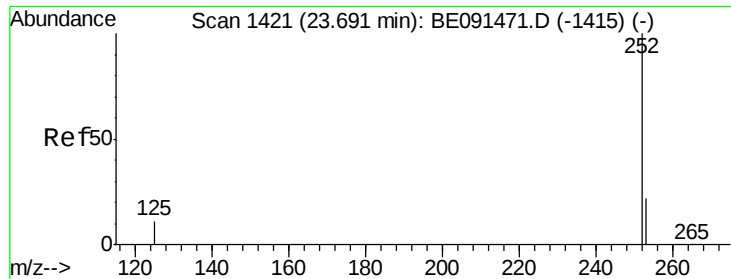
apatel
3/21/2016 5:12:22 PM



#30
Benzo(k)fluoranthene
Concen: 0.32 ng
RT: 23.09 min Scan# 1368
Delta R.T. -0.01 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	20.2	30.4
125	11.6	9.4	14.2





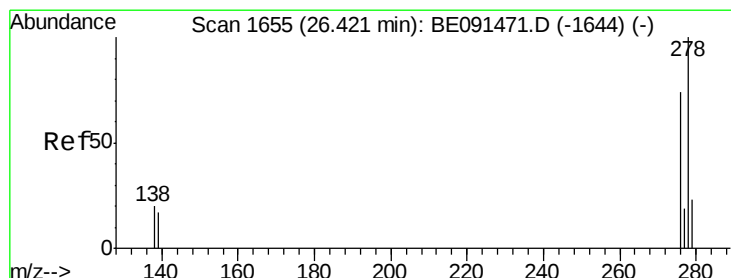
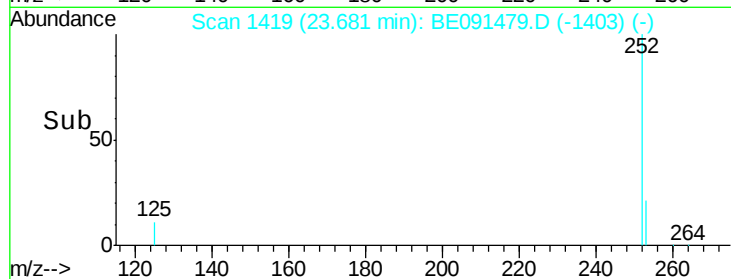
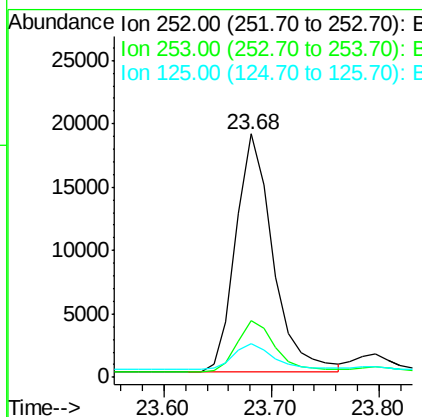
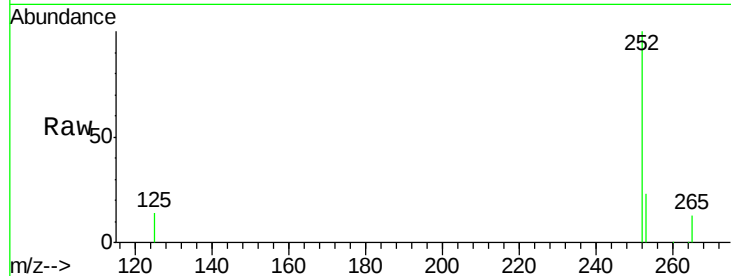
#31
Benzo(a)pyrene
Concen: 0.32 ng
RT: 23.68 min Scan# 1419
Delta R.T. -0.01 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Instrument :
BNA_E
ClientSampleId :
ICVBE031816

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.1	19.4	29.0
125	14.0	11.4	17.2

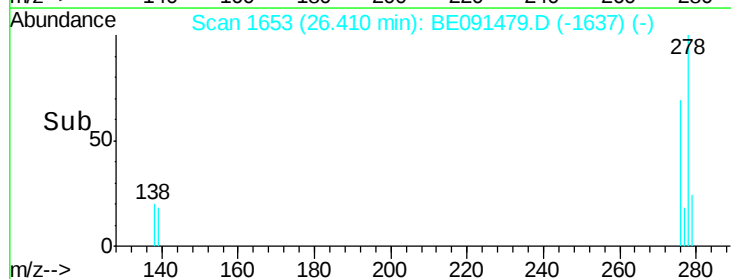
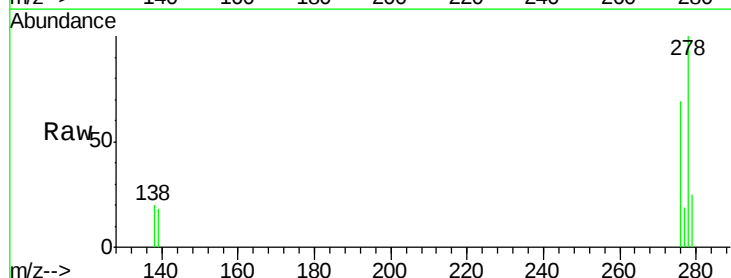
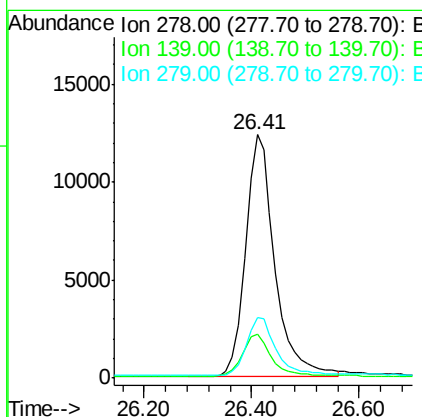
Manual Integrations
APPROVED

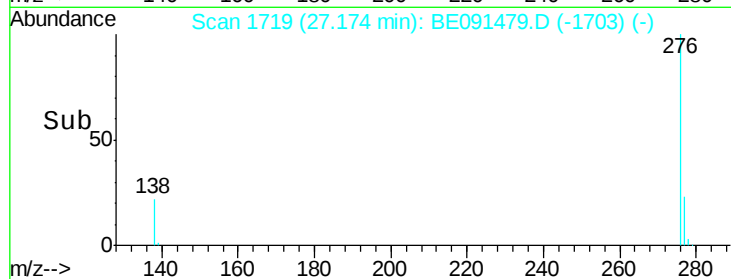
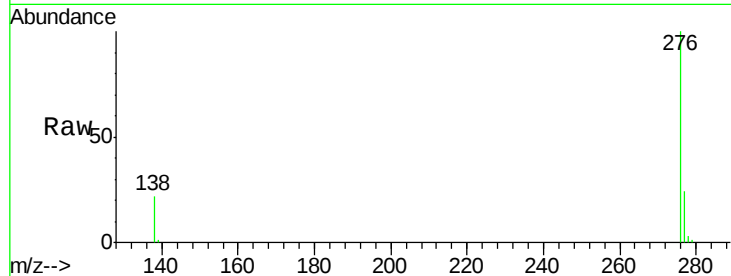
apatel
3/21/2016 5:12:22 PM



#32
Dibenzo(a,h)anthracene
Concen: 0.34 ng
RT: 26.41 min Scan# 1653
Delta R.T. -0.01 min
Lab File: BE091479.D
Acq: 18 Mar 2016 11:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	18.2	14.2	21.4
279	24.8	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 0.35 ng

RT: 27.17 min Scan# 1719

Delta R.T. -0.01 min

Lab File: BE091479.D

Acq: 18 Mar 2016 11:30

Instrument :

BNA_E

ClientSampleId :

ICVBE031816

Tgt Ion:	276	Resp:	50013
Ion Ratio	Lower	Upper	
276	100		
277	23.8	19.4	29.2
138	22.3	18.2	27.4

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:22 PM

