

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080416\
 Data File : BE092184.D
 Acq On : 4 Aug 2016 16:01
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
 APPROVED

sohil
 8/5/2016 6:58:11 PM

Quant Time: Aug 05 03:20:01 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	9296	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	44138	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	25112	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	56584	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	68176	5.00	ng	0.00
28) Perylene-d12	24.14	264	65011	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.71	112	795	0.33	ng	0.01
5) Phenol-d6	7.36	99	1051	0.33	ng	0.01
7) Nitrobenzene-d5	9.35	82	1112	0.32	ng	0.00
11) 2,4,6-Tribromophenol	16.33	330	269	0.33	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	3103	0.39	ng	0.00
24) Terphenyl-d14	20.21	244	4353	0.44	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	535	0.42	ng	99
3) n-Nitrosodimethylamine	3.80	42	547	0.40	ng	# 6
8) Naphthalene	11.03	128	3957	0.41	ng	98
9) 2-Methylnaphthalene	12.65	142	2464	0.40	ng	# 87
13) Acenaphthylene	14.56	152	17039	0.38	ng	98
14) Acenaphthene	14.90	154	2806	0.40	ng	# 95
15) Fluorene	15.89	166	3386	0.38	ng	99
17) Hexachlorobenzene	16.89	284	1089	0.39	ng	# 60
18) Pentachlorophenol	17.23	266	206	0.39	ng	95
19) Phenanthrene	17.60	178	6444	0.38	ng	100
20) Anthracene	17.70	178	5269	0.35	ng	99
21) Fluoranthene	19.63	202	25393	0.37	ng	97
23) Pyrene	19.99	202	27397	0.38	ng	99
25) Benzo(a)anthracene	21.72	228	28323	0.38	ng	94
26) Chrysene	21.77	228	29234	0.39	ng	# 87
27) Indeno(1,2,3-cd)pyrene	26.65	276	29085	0.36	ng	99
29) Benzo(b)fluoranthene	23.40	252	6493	0.37	ng	98
30) Benzo(k)fluoranthene	23.45	252	7091m	0.40	ng	
31) Benzo(a)pyrene	24.02	252	6332	0.39	ng	97
32) Dibenzo(a,h)anthracene	26.67	278	5889	0.38	ng	100
33) Benzo(g,h,i)perylene	27.42	276	25301	0.38	ng	99

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

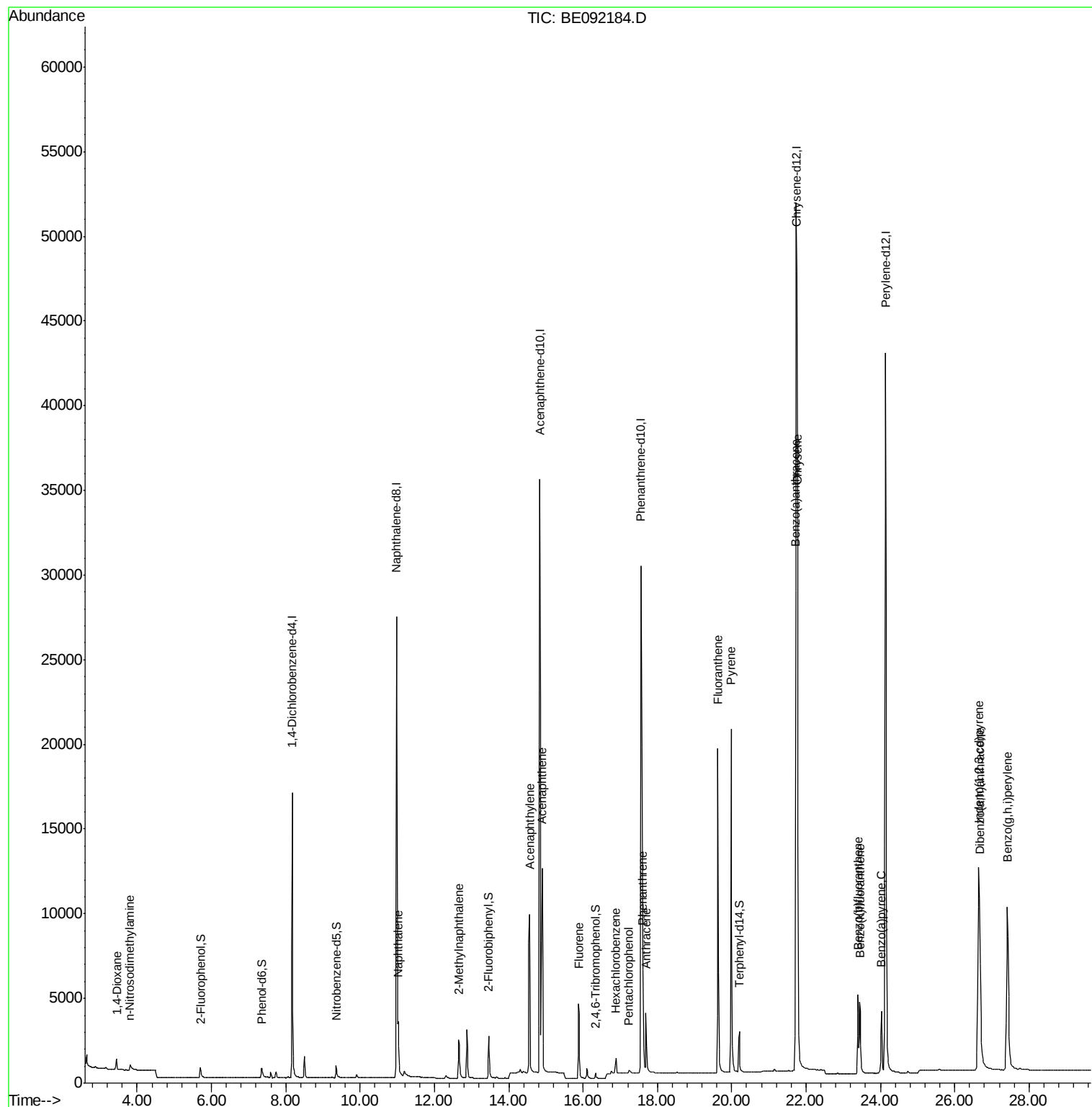
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080416\
Data File : BE092184.D
Acq On : 4 Aug 2016 16:01
Operator : UM/SJ
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

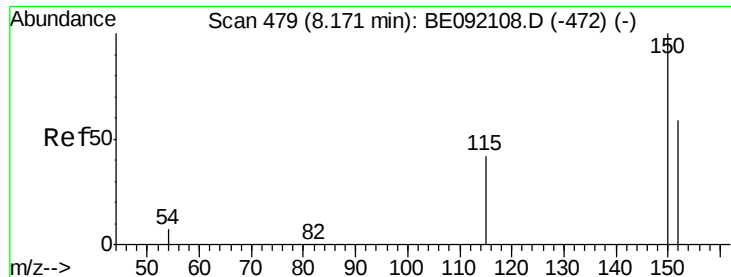
Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM

Quant Time: Aug 05 03:20:01 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 16:59:37 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 152 Resp: 9296

Ion Ratio Lower Upper

152 100

150 165.9 106.0 159.0#

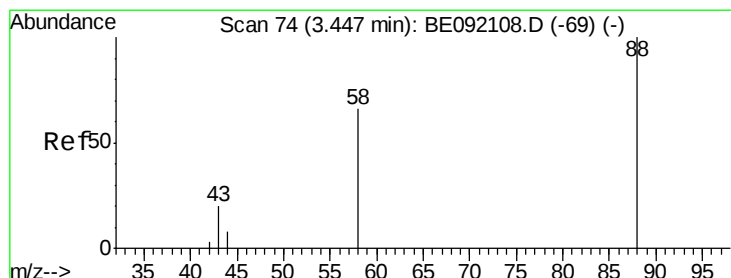
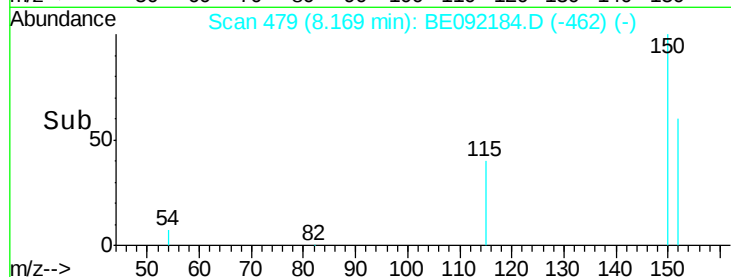
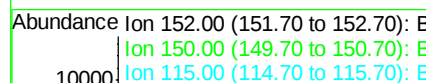
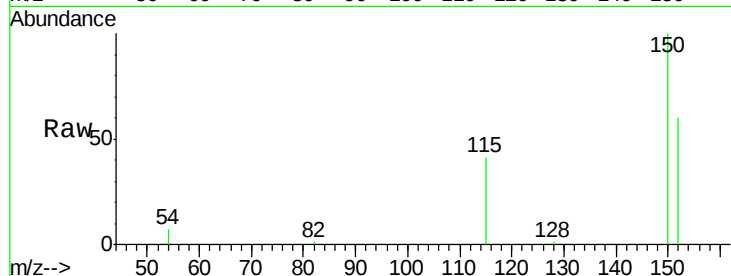
115 67.8 36.9 55.3#

Manual Integrations

APPROVED

sohil

8/5/2016 6:58:11 PM



#2

1,4-Dioxane

Concen: 0.42 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

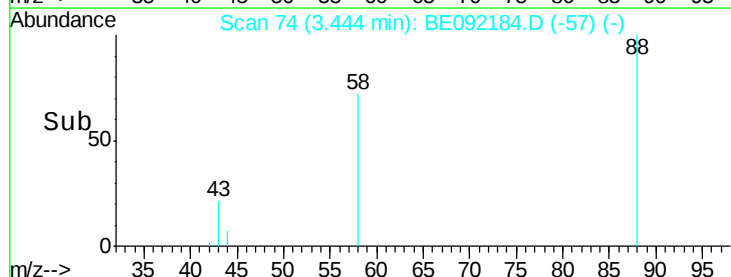
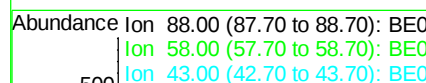
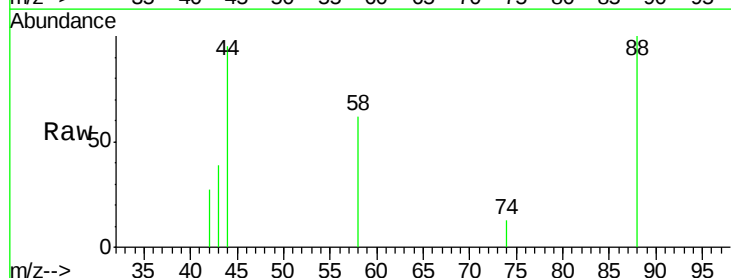
Tgt Ion: 88 Resp: 535

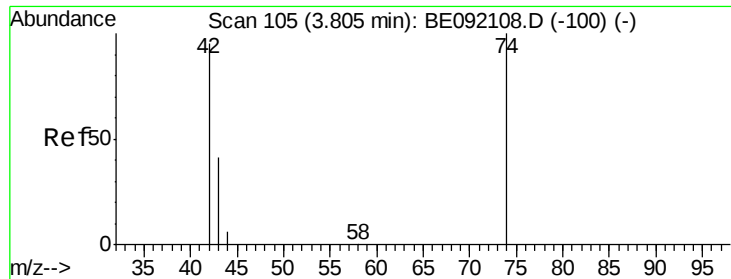
Ion Ratio Lower Upper

88 100

58 76.8 62.1 93.1

43 34.8 27.2 40.8





#3

n-Nitrosodimethylamine

Concen: 0.40 ng

RT: 3.80 min Scan# 105

Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

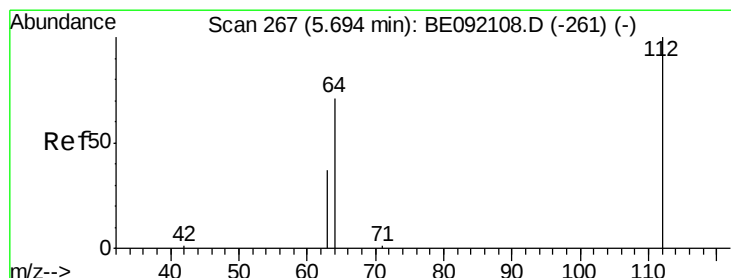
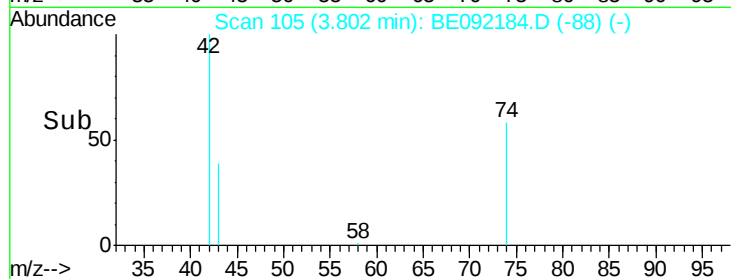
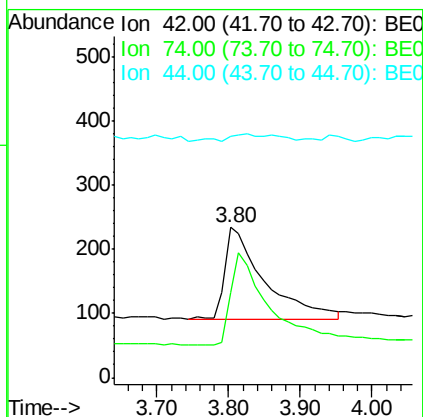
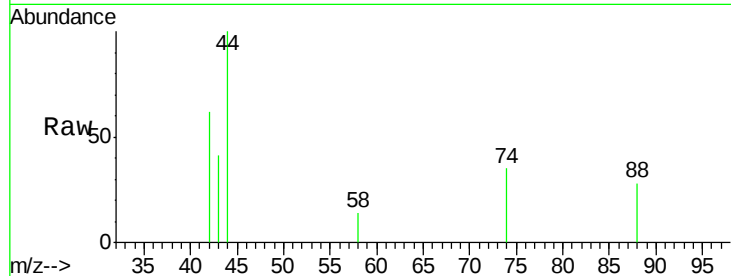
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	42	Resp:	547
Ion Ratio	Lower	Upper	
42	100		
74	0.0	82.8	124.2#
44	0.0	9.0	13.4#

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#4

2-Fluorophenol

Concen: 0.33 ng

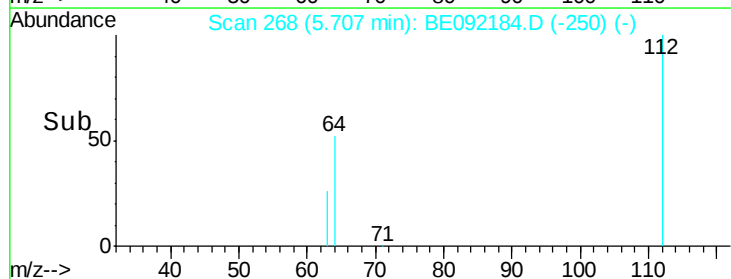
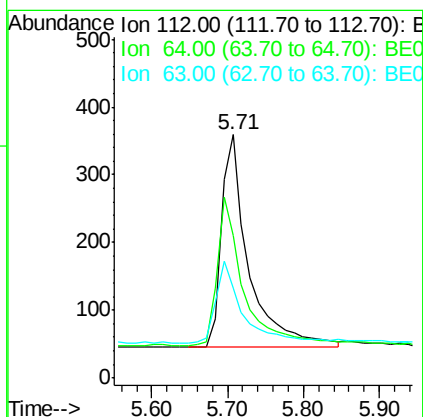
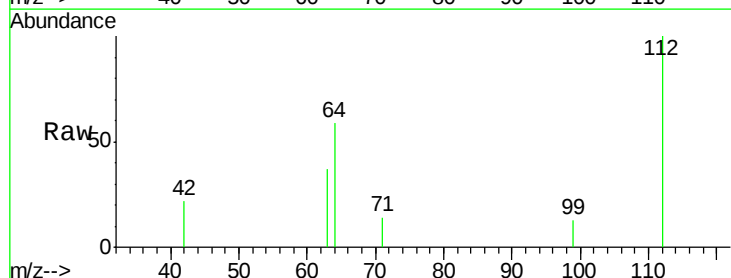
RT: 5.71 min Scan# 268

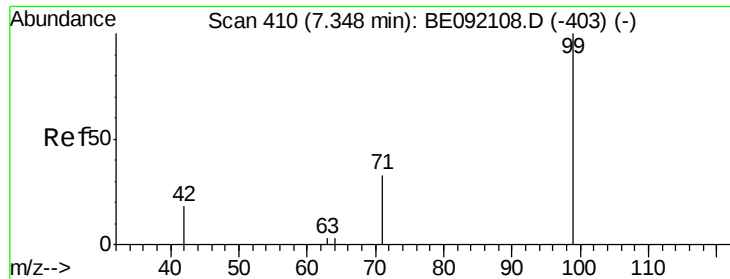
Delta R.T. 0.01 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	112	Resp:	795
Ion Ratio	Lower	Upper	
112	100		
64	67.2	55.9	83.9
63	37.1	31.1	46.7





#5

Phenol-d6

Concen: 0.33 ng

RT: 7.36 min Scan# 411

Delta R.T. 0.01 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

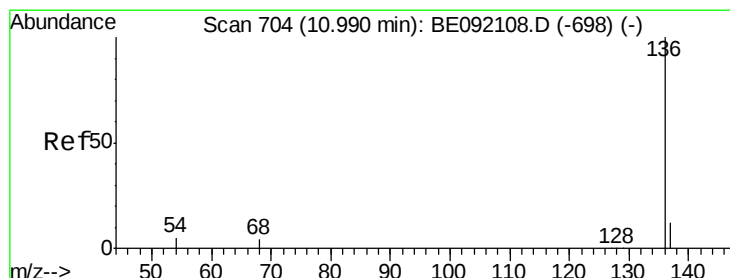
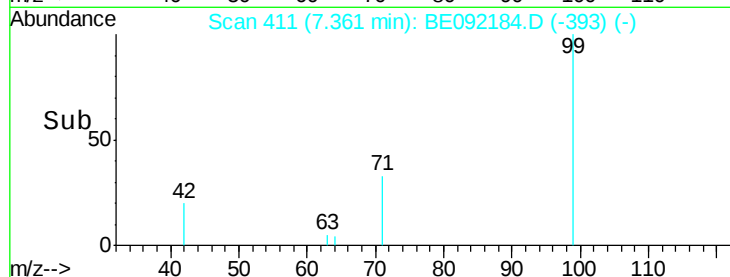
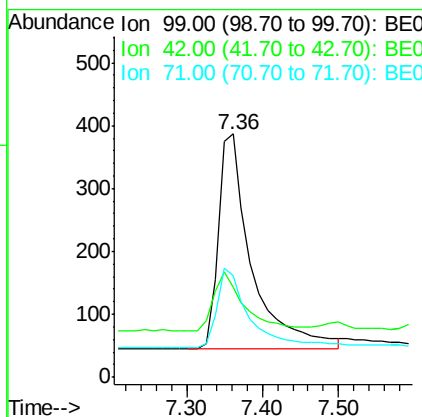
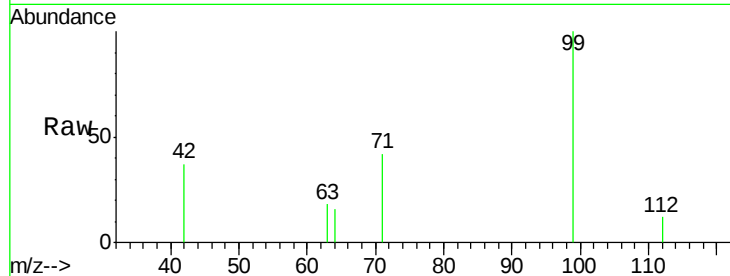
ClientSampled :

SSTDCCC0.4

Tgt Ion:	99	Resp:	1051
Ion	Ratio	Lower	Upper
99	100		
42	26.0	22.4	33.6
71	36.0	28.9	43.3

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#6

Naphthalene-d8

Concen: 5.00 ng

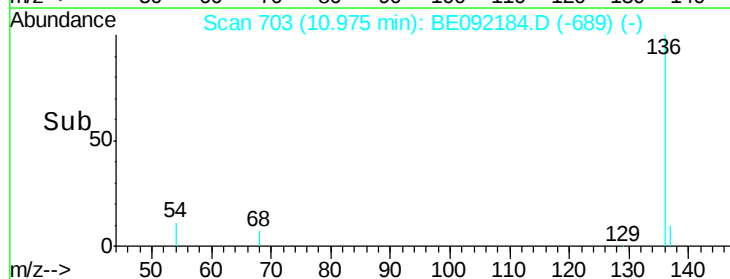
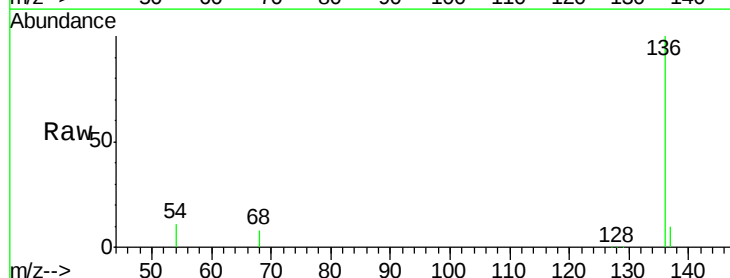
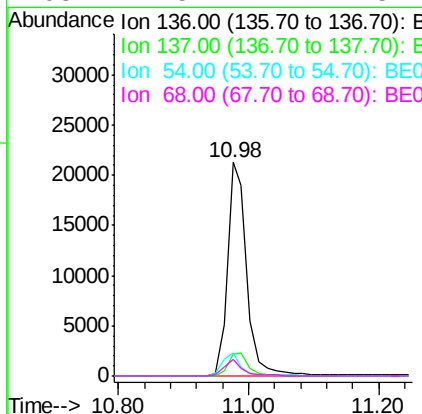
RT: 10.98 min Scan# 703

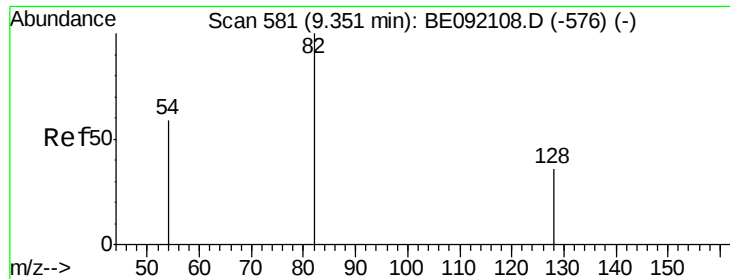
Delta R.T. -0.01 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	136	Resp:	44138
Ion	Ratio	Lower	Upper
136	100		
137	10.2	9.1	13.7
54	10.9	2.7	4.1#
68	7.5	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 0.32 ng

RT: 9.35 min Scan# 581

Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

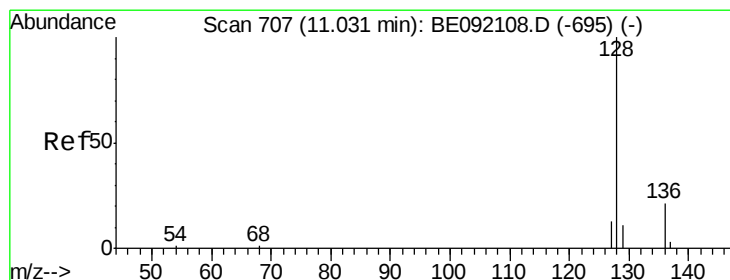
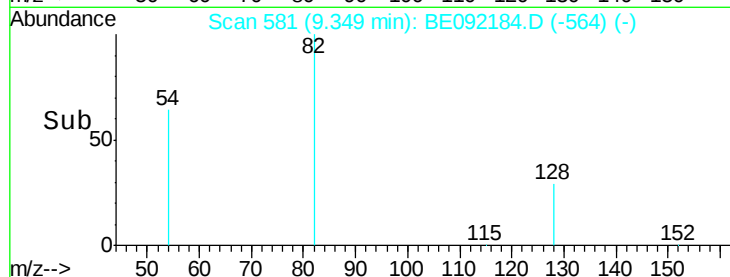
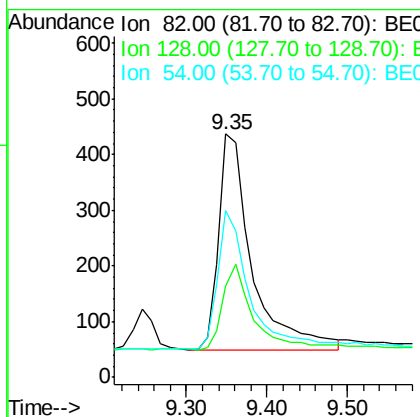
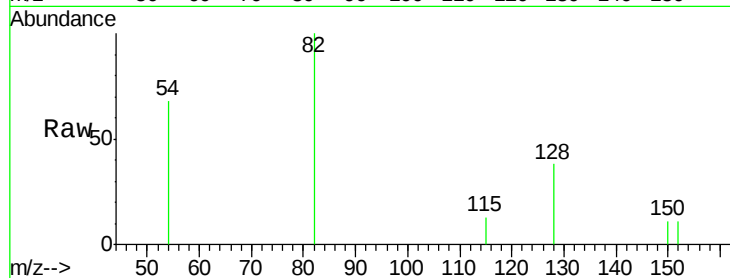
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	82	Resp:	1112
Ion Ratio	Lower	Upper	
82	100		
128	37.5	33.0	49.4
54	68.4	42.6	63.8#

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#8

Naphthalene

Concen: 0.41 ng

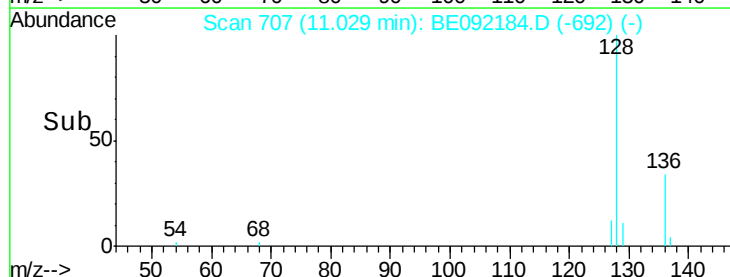
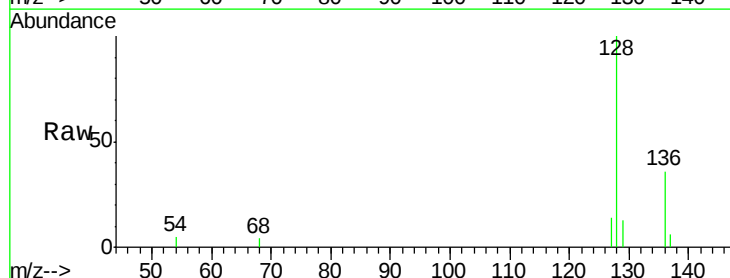
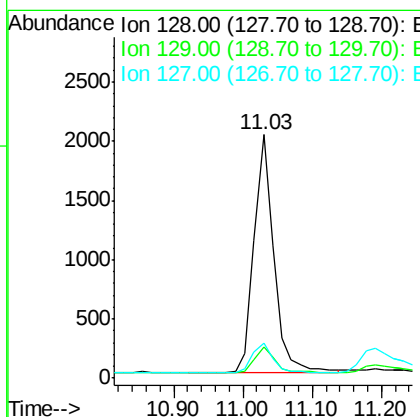
RT: 11.03 min Scan# 707

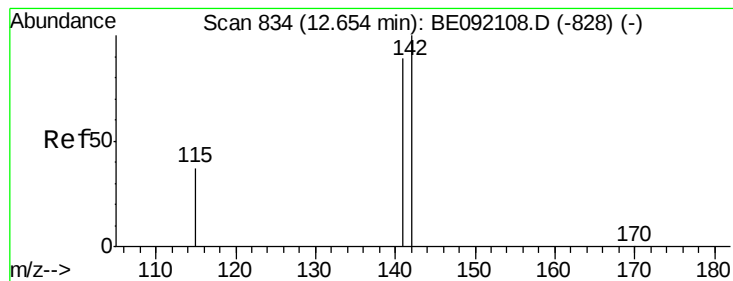
Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	128	Resp:	3957
Ion Ratio	Lower	Upper	
128	100		
129	12.7	11.1	16.7
127	14.3	11.3	16.9





#9

2-Methylnaphthalene

Concen: 0.40 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

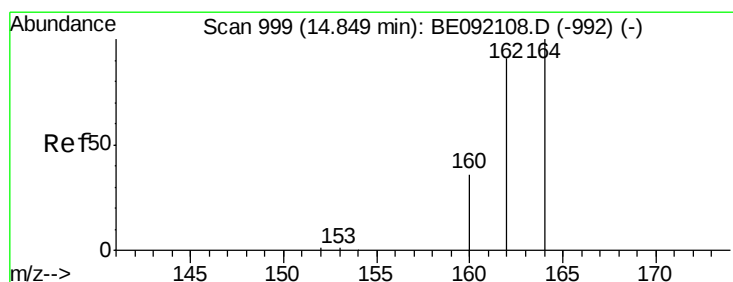
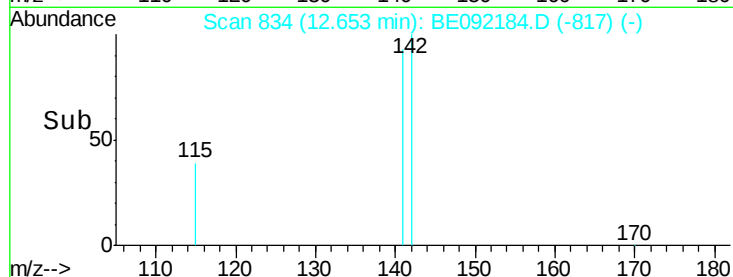
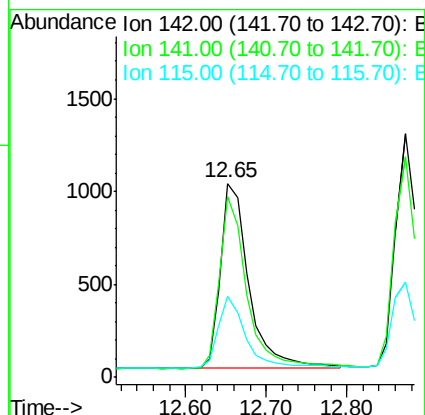
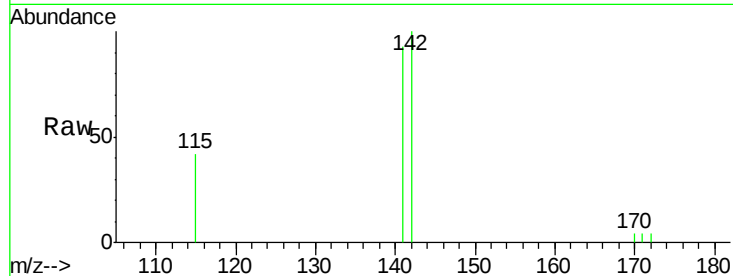
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	142	Resp:	2464
Ion Ratio	Lower	Upper	
142	100		
141	93.0	65.1	97.7
115	41.8	27.0	40.4

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#10

Acenaphthene-d10

Concen: 5.00 ng

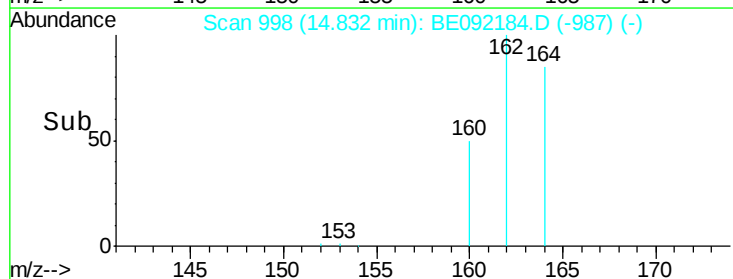
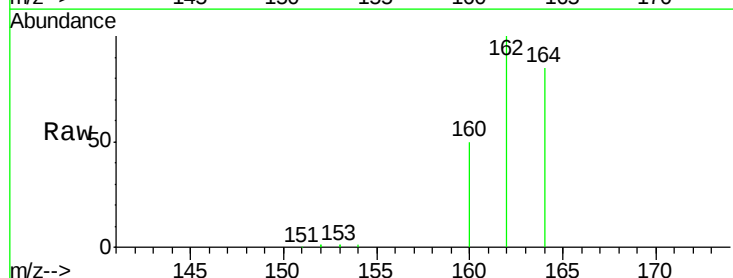
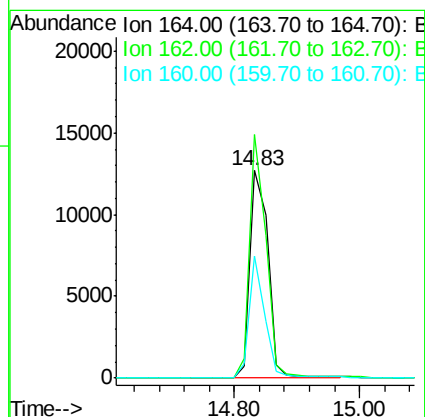
RT: 14.83 min Scan# 998

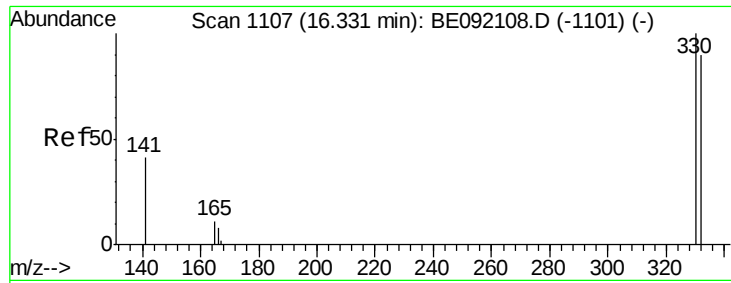
Delta R.T. -0.02 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	164	Resp:	25112
Ion Ratio	Lower	Upper	
164	100		
162	117.3	69.5	104.3
160	59.0	27.6	41.4





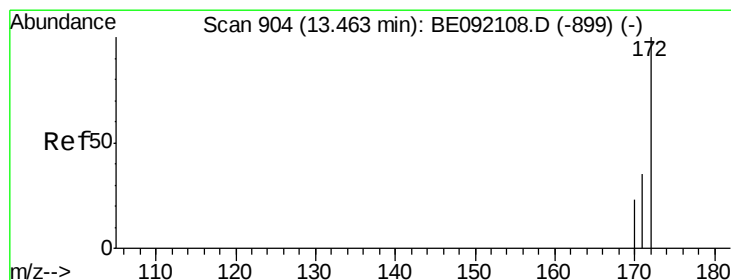
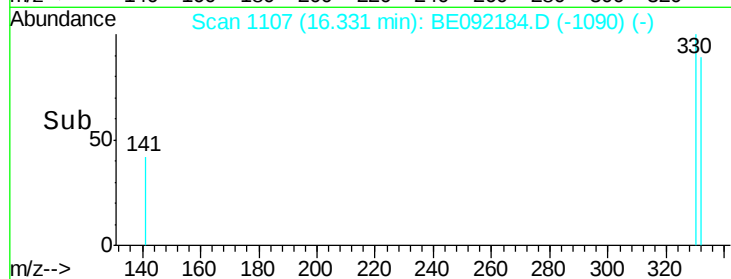
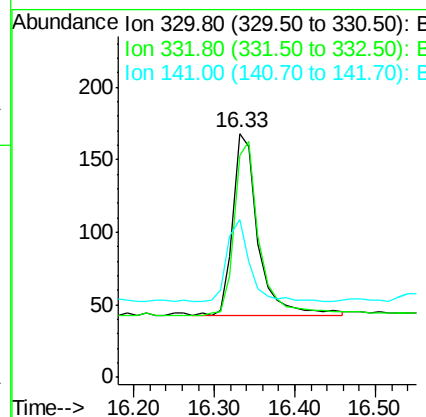
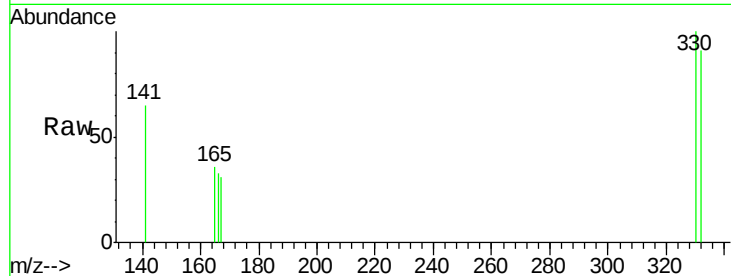
#11
 2,4,6-Tribromophenol
 Concen: 0.33 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion: 330 Resp: 269
 Ion Ratio Lower Upper
 330 100
 332 95.9 74.2 111.4
 141 41.3 139.8 209.8#

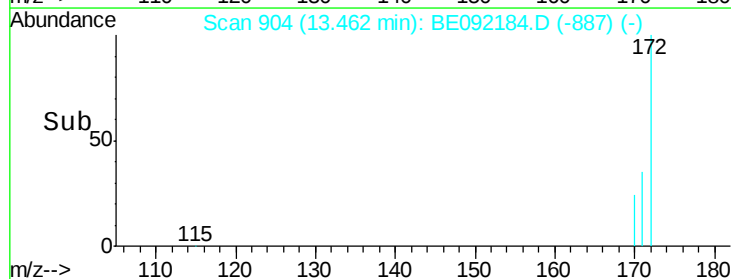
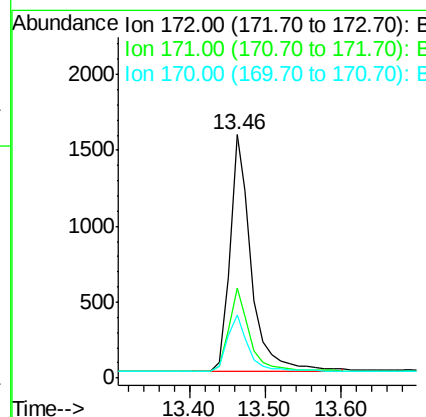
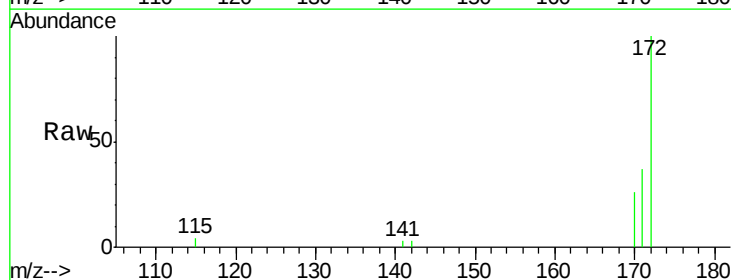
Manual Integrations
 APPROVED

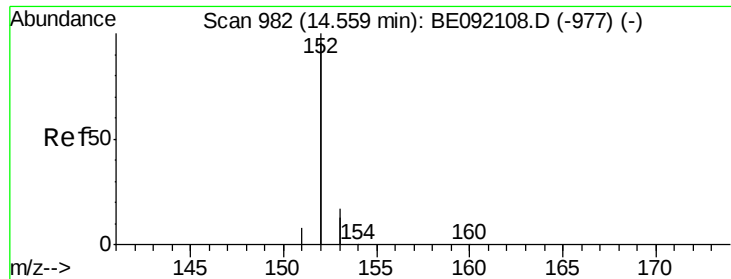
sohil
 8/5/2016 6:58:11 PM



#12
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Tgt Ion: 172 Resp: 3103
 Ion Ratio Lower Upper
 172 100
 171 36.9 30.3 45.5
 170 26.1 21.6 32.4





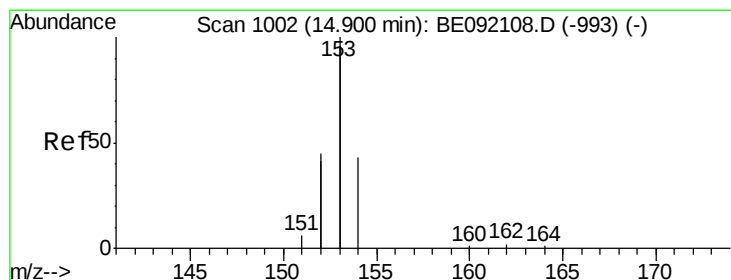
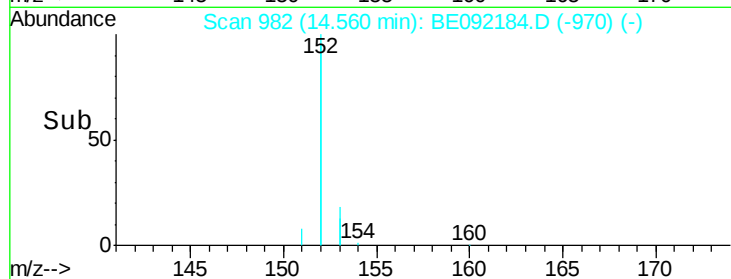
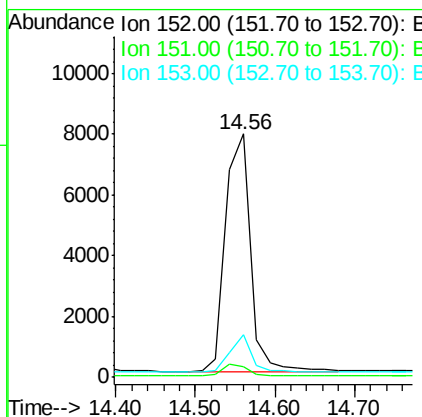
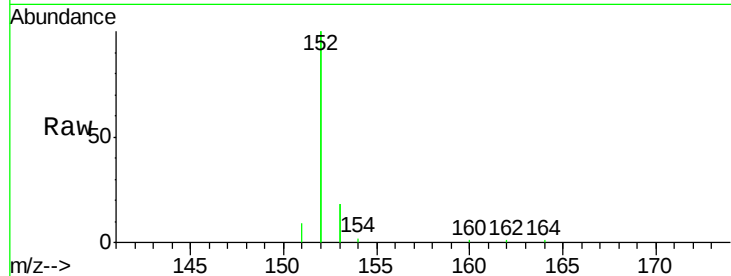
#13
Acenaphthylene
Concen: 0.38 ng
RT: 14.56 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.8	4.0	6.0
153	12.9	9.6	14.4

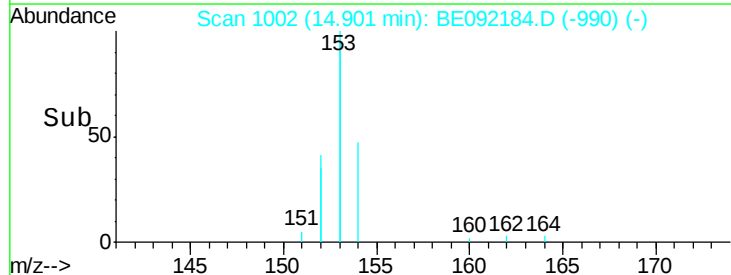
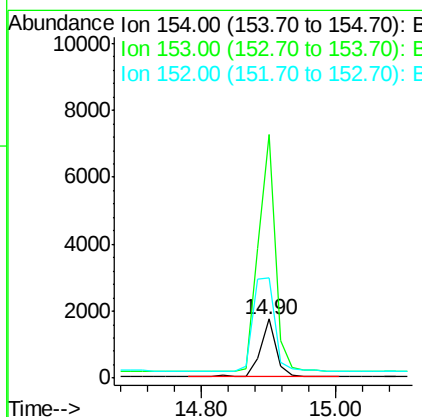
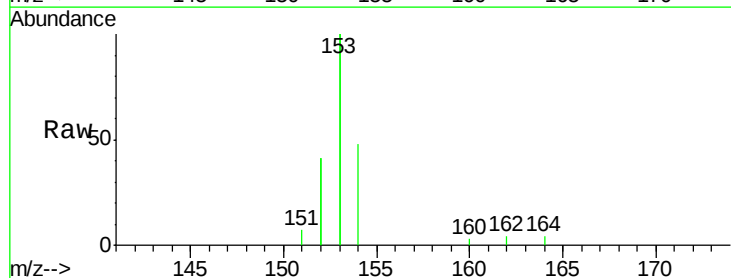
Manual Integrations
APPROVED

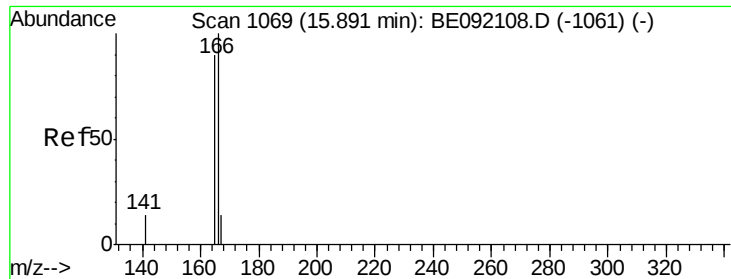
sohil
8/5/2016 6:58:11 PM



#14
Acenaphthene
Concen: 0.40 ng
RT: 14.90 min Scan# 1002
Delta R.T. 0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Lower	Upper
154	100		
153	442.8	345.1	517.7
152	220.1	0.0	0.0#





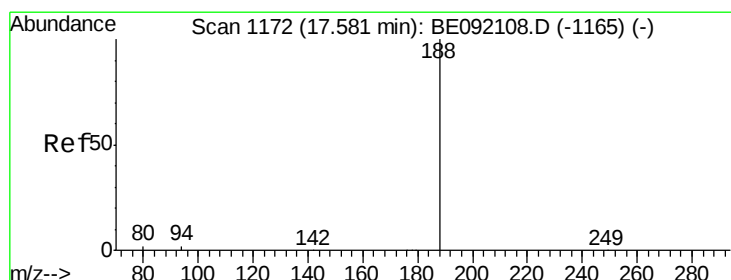
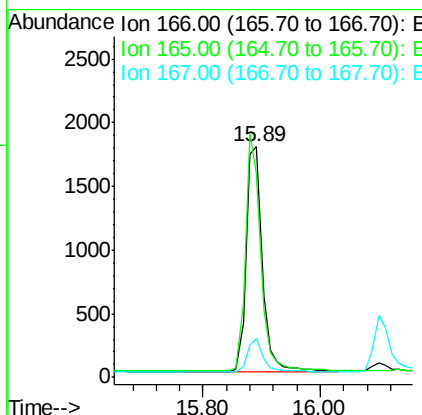
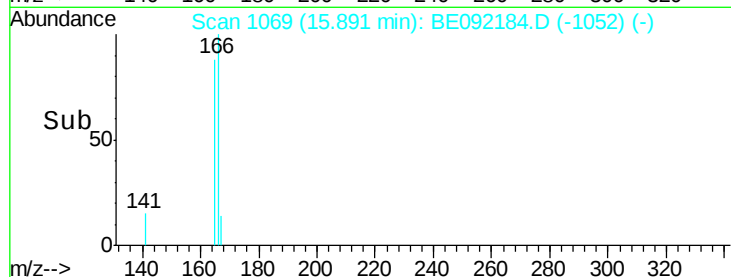
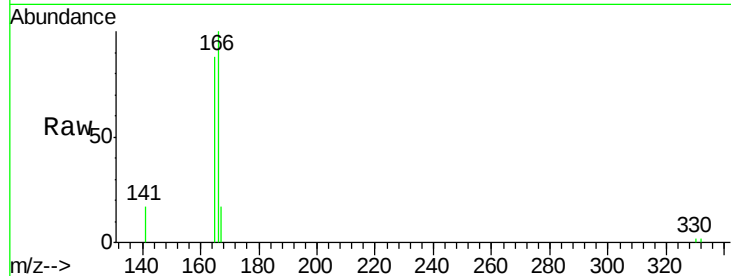
#15
Fluorene
 Concen: 0.38 ng
 RT: 15.89 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTCCCC0.4

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.6	118.0
167	13.6	11.1	16.7

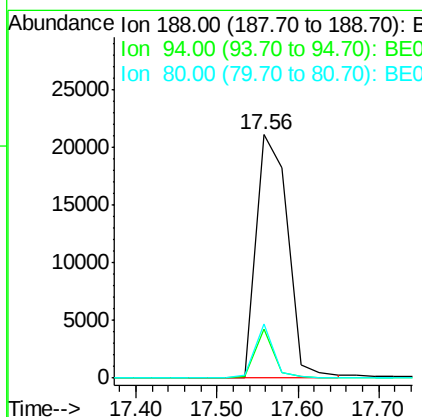
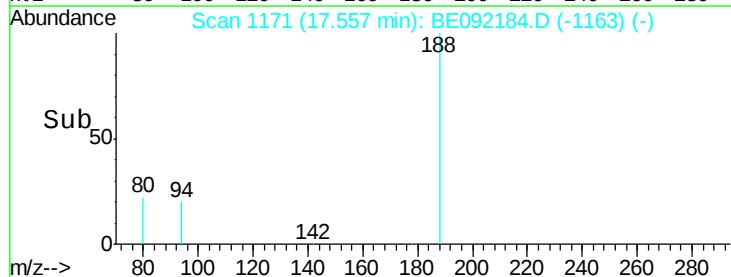
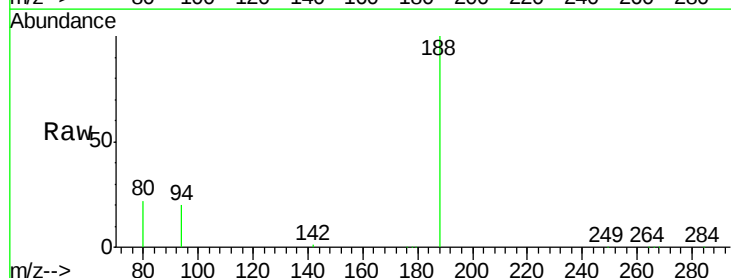
Manual Integrations
 APPROVED

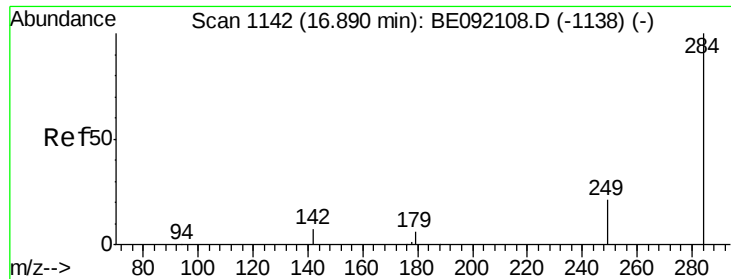
sohil
 8/5/2016 6:58:11 PM



#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1171
 Delta R.T. -0.02 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Lower	Upper
188	100		
94	20.0	3.9	5.9#
80	22.1	3.4	5.0#





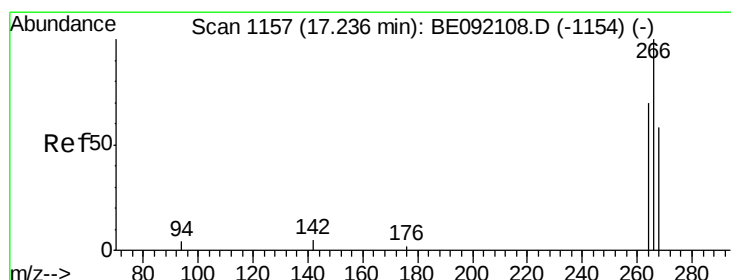
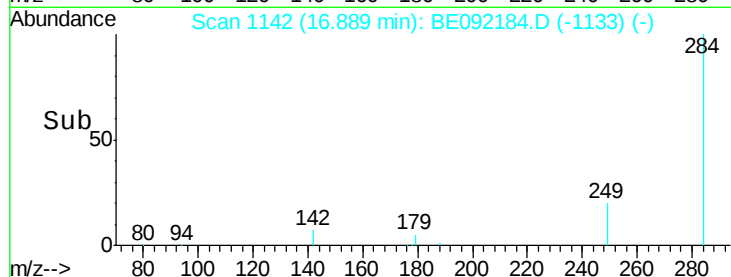
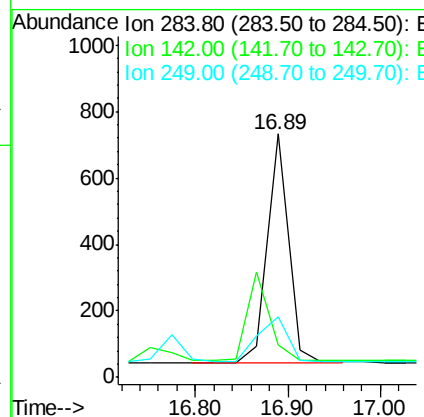
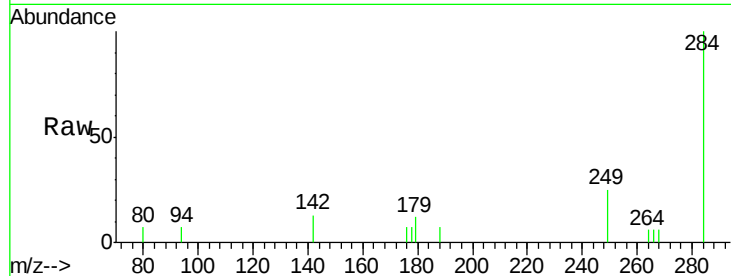
#17
Hexachlorobenzene
Concen: 0.39 ng
RT: 16.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	0.0	33.3	49.9#
249	28.0	25.4	38.0

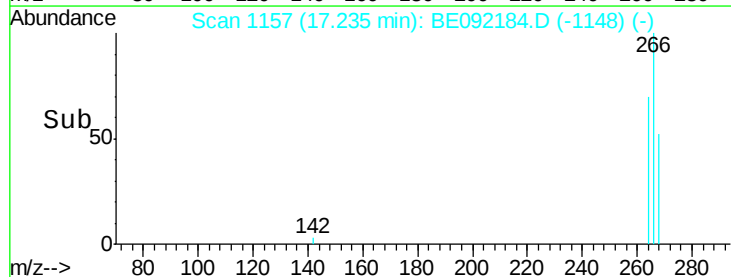
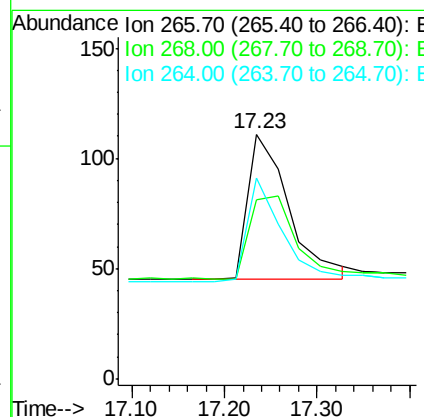
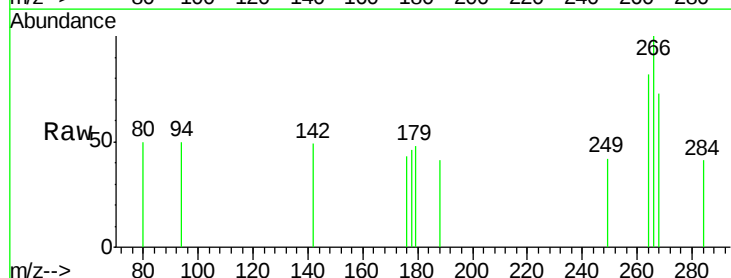
Manual Integrations
APPROVED

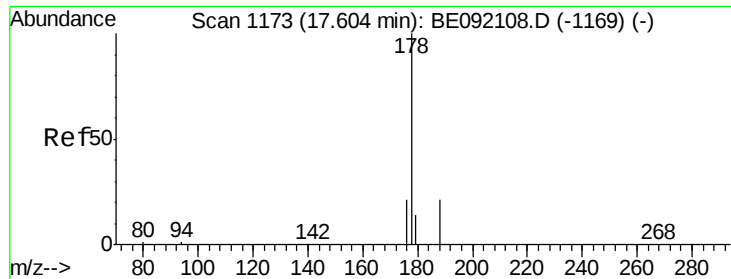
sohil
8/5/2016 6:58:11 PM



#18
Pentachlorophenol
Concen: 0.39 ng
RT: 17.23 min Scan# 1157
Delta R.T. -0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
266	100		
268	73.0	62.7	94.1
264	82.0	63.5	95.3





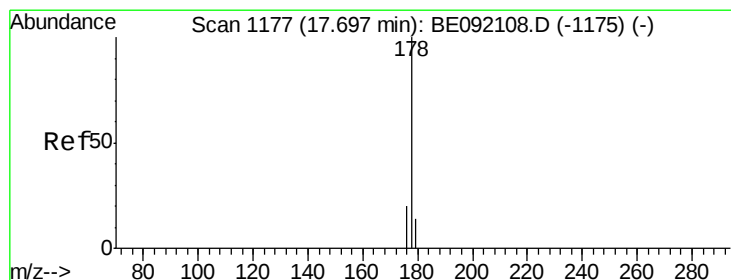
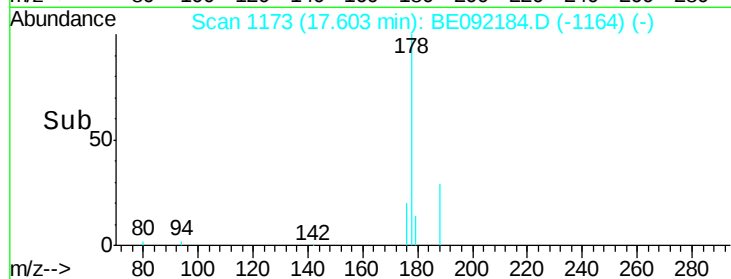
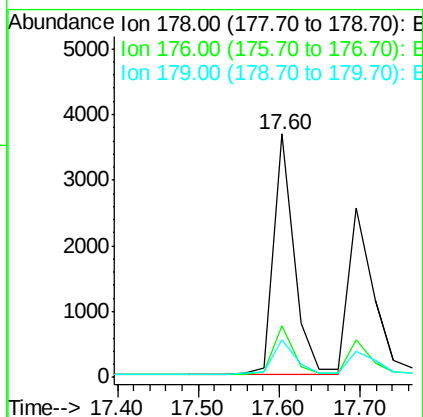
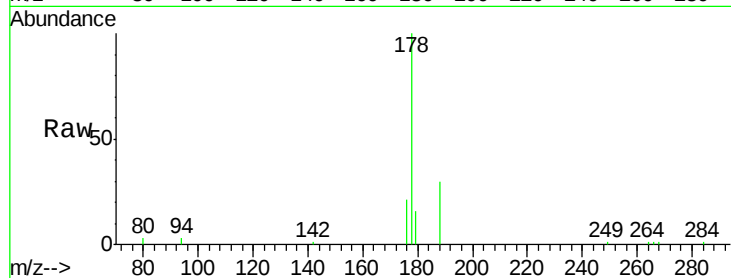
#19
Phenanthrene
Concen: 0.38 ng
RT: 17.60 min Scan# 1173
Delta R.T. -0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.9	12.7	19.1

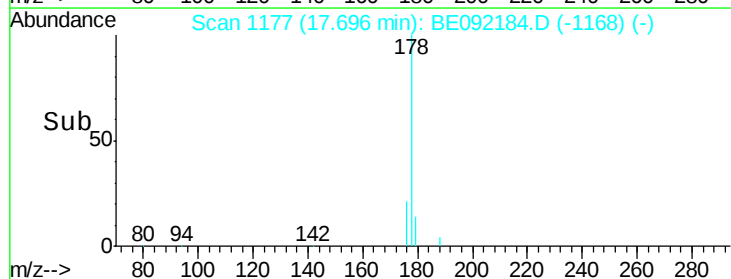
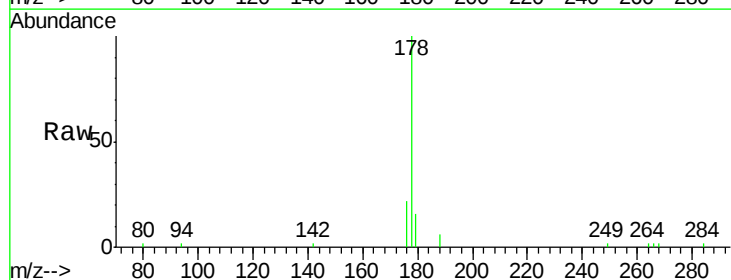
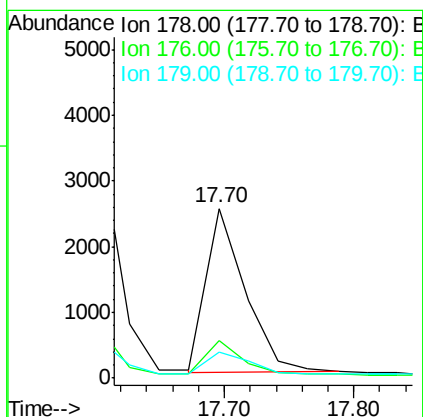
Manual Integrations
APPROVED

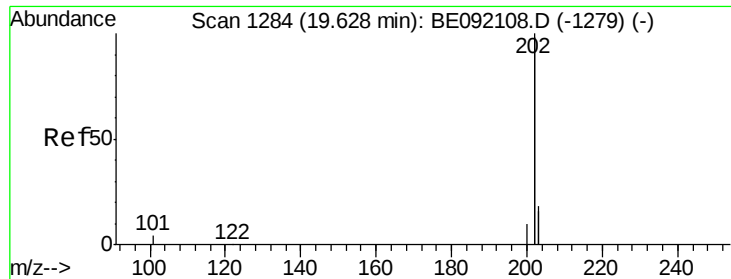
sohil
8/5/2016 6:58:11 PM



#20
Anthracene
Concen: 0.35 ng
RT: 17.70 min Scan# 1177
Delta R.T. -0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.2	22.8
179	15.1	12.2	18.4





#21

Fluoranthene

Concen: 0.37 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

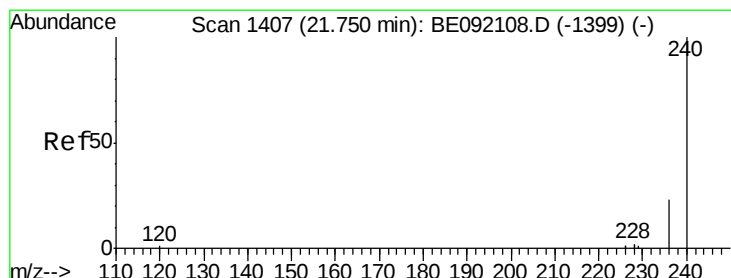
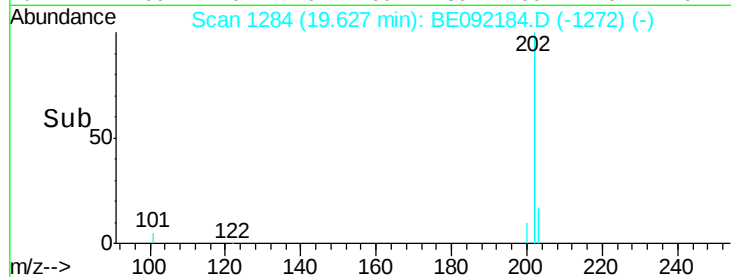
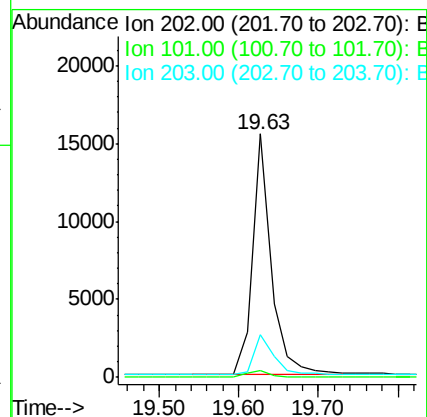
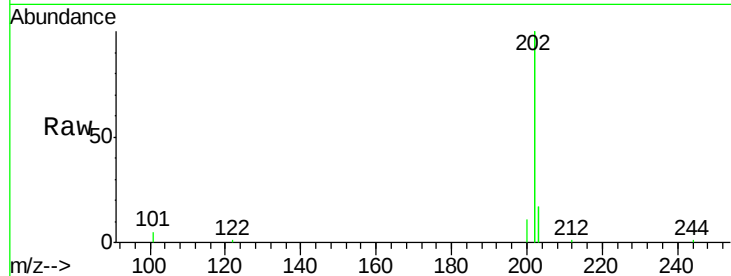
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	202	Resp:	25393
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.2
203	17.5	13.0	19.4

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#22

Chrysene-d12

Concen: 5.00 ng

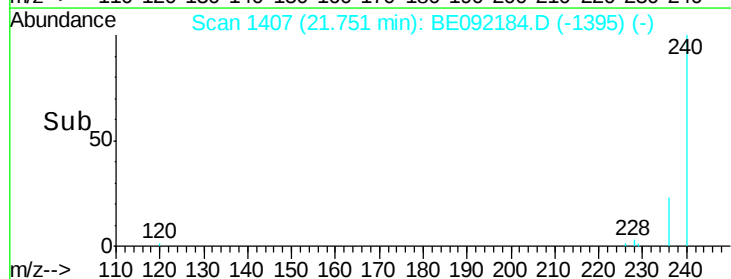
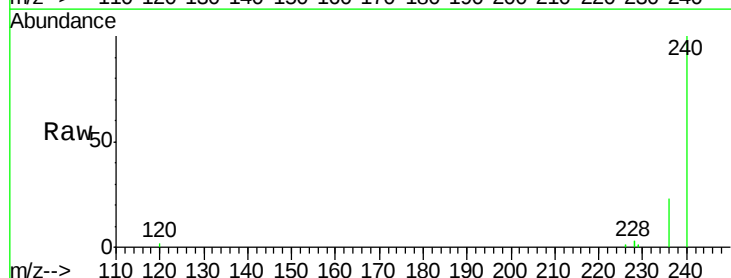
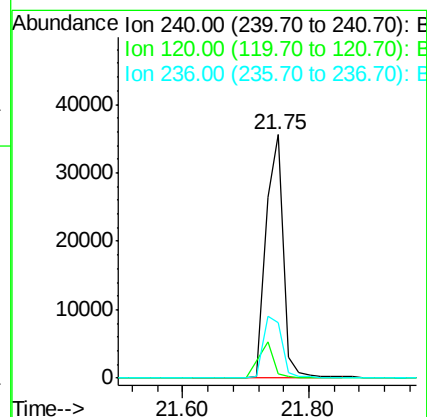
RT: 21.75 min Scan# 1407

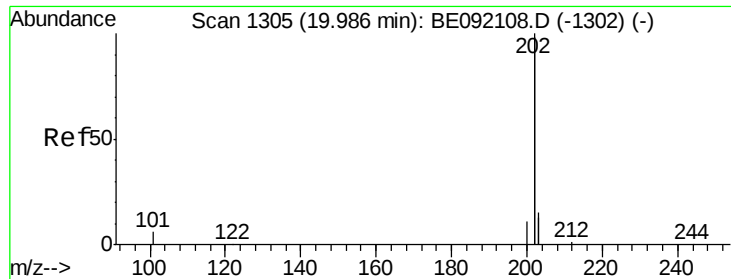
Delta R.T. 0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	240	Resp:	68176
Ion Ratio	Lower	Upper	
240	100		
120	1.6	0.6	1.0#
236	22.9	18.2	27.4





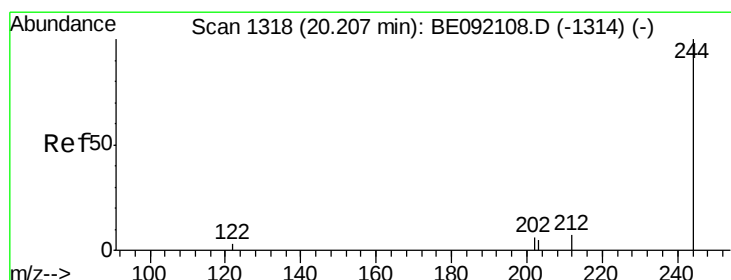
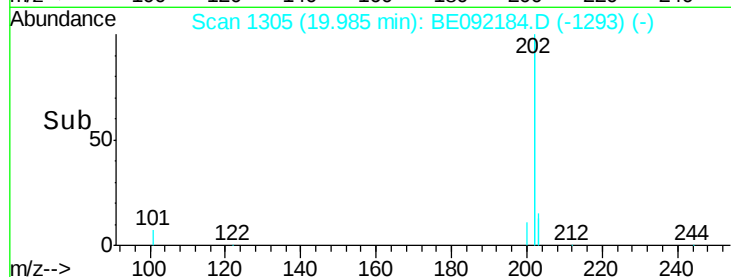
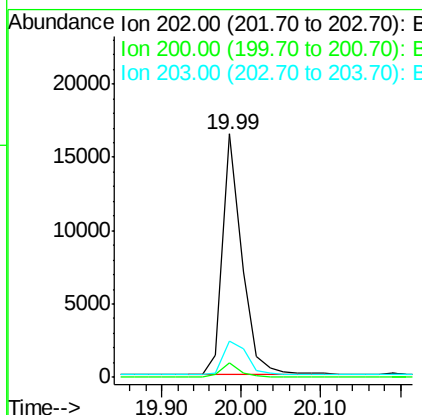
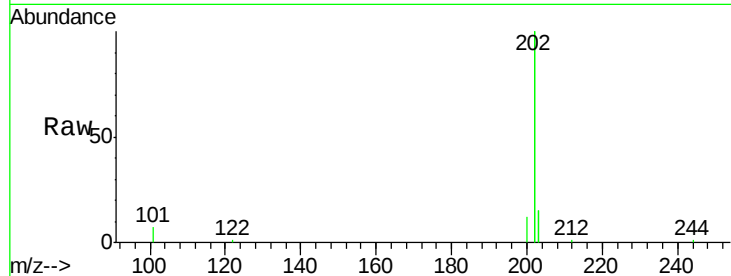
#23
 Pyrene
 Concen: 0.38 ng
 RT: 19.99 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.4	6.6
203	17.2	13.4	20.0

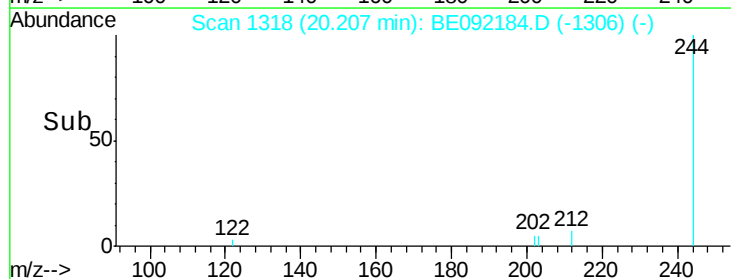
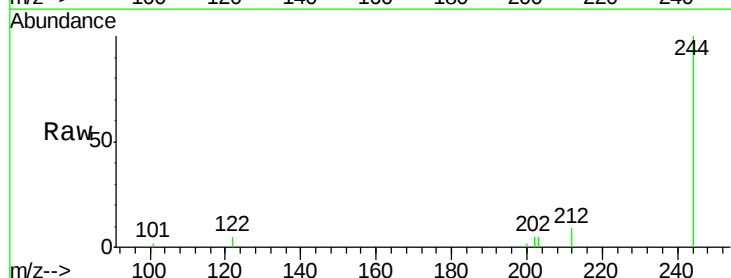
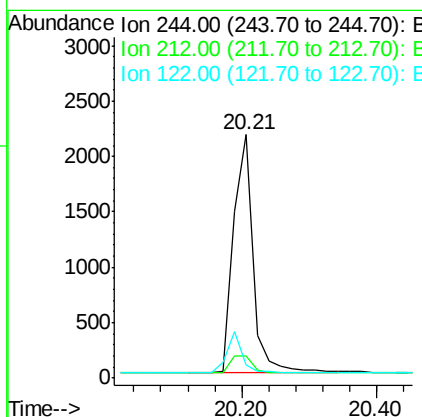
Manual Integrations
 APPROVED

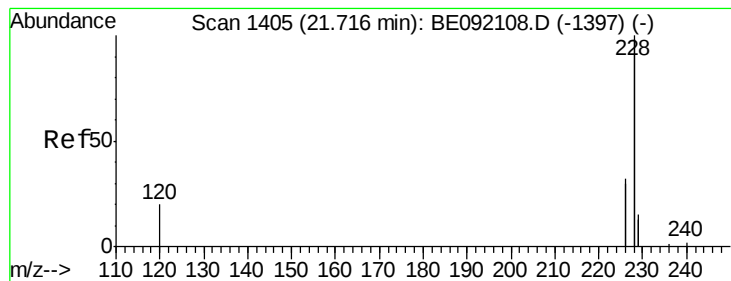
sohil
 8/5/2016 6:58:11 PM



#24
 Terphenyl-d14
 Concen: 0.44 ng
 RT: 20.21 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	9.1	13.7
122	5.3	11.0	16.4





#25

Benzo(a)anthracene

Concen: 0.38 ng

RT: 21.72 min Scan# 1405

Delta R.T. 0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

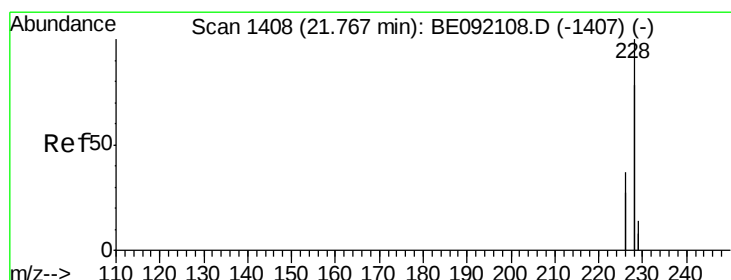
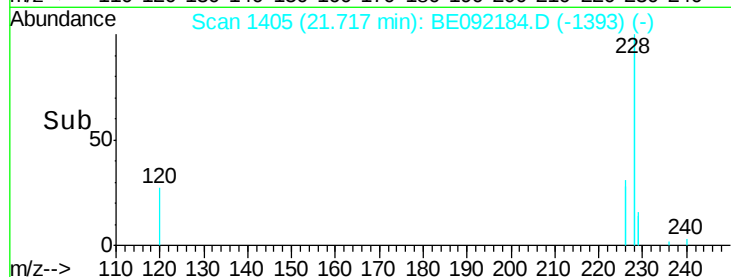
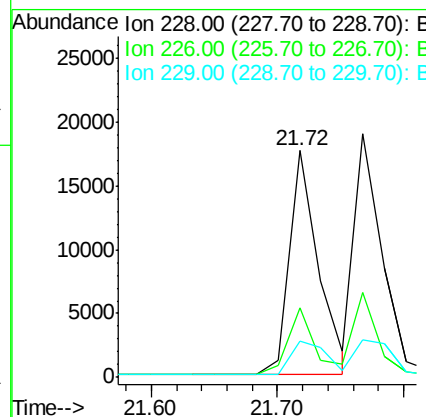
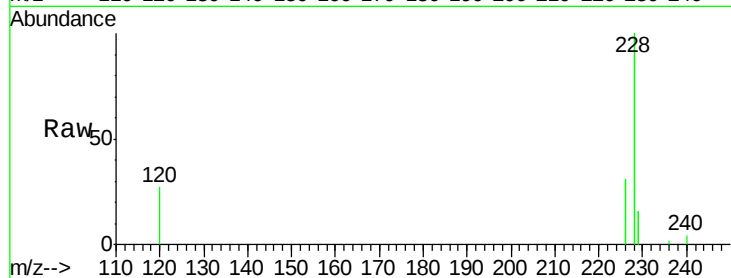
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	228	Resp:	28323
Ion Ratio	Lower	Upper	
228	100		
226	30.6	22.1	33.1
229	16.2	15.1	22.7

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#26

Chrysene

Concen: 0.39 ng

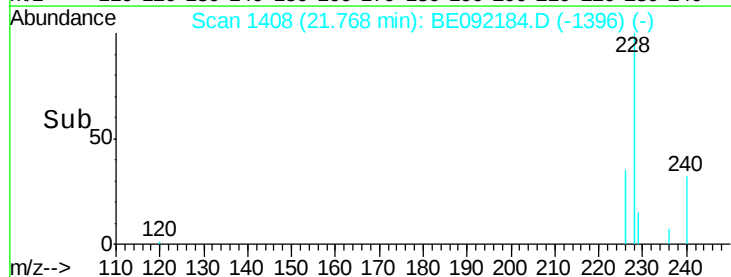
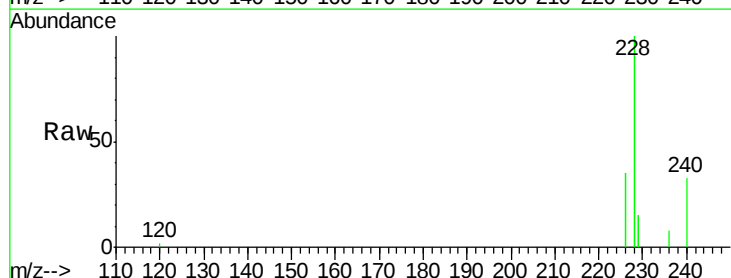
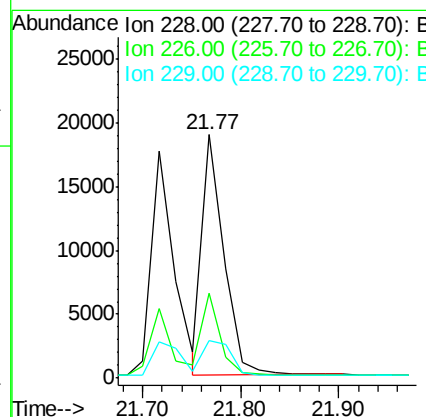
RT: 21.77 min Scan# 1408

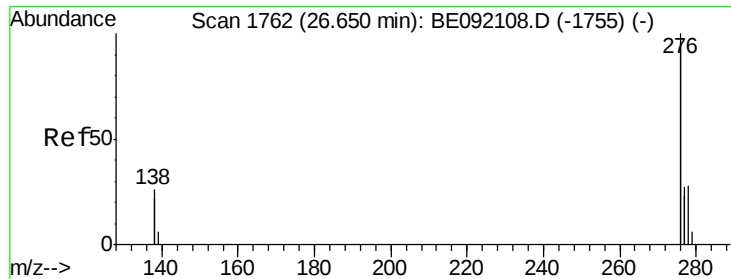
Delta R.T. 0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	228	Resp:	29234
Ion Ratio	Lower	Upper	
228	100		
226	35.0	22.3	33.5#
229	15.2	16.9	25.3#





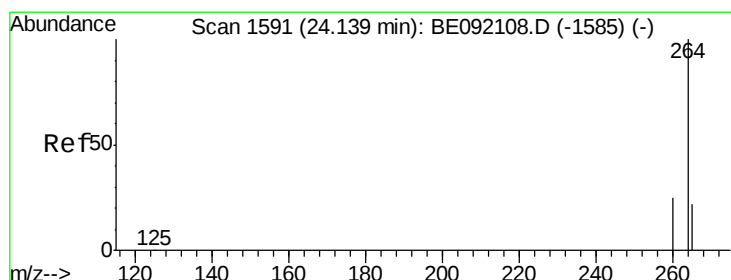
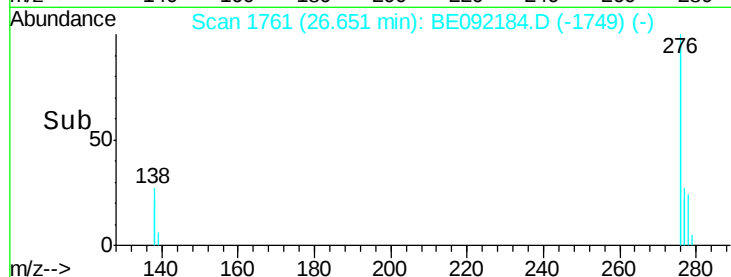
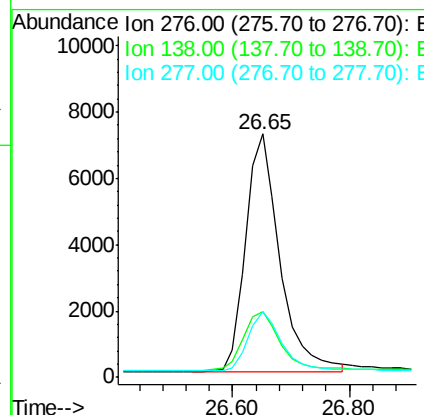
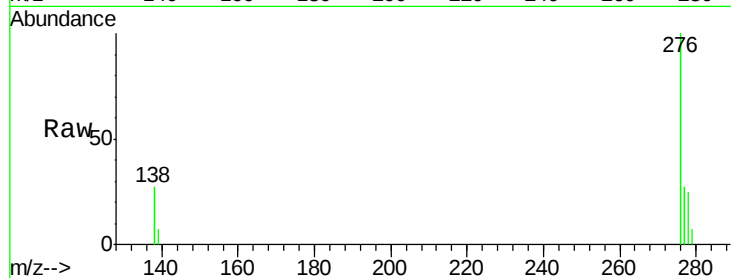
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.36 ng
 RT: 26.65 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	27.2	21.2	31.8
277	24.6	19.8	29.8

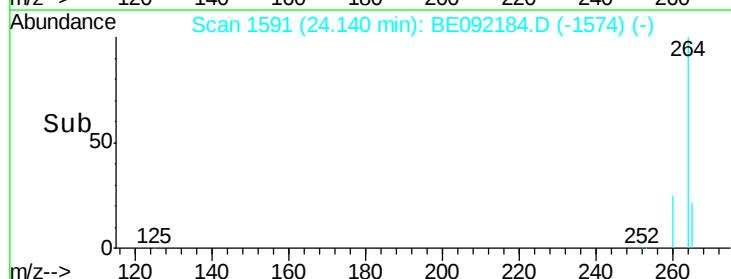
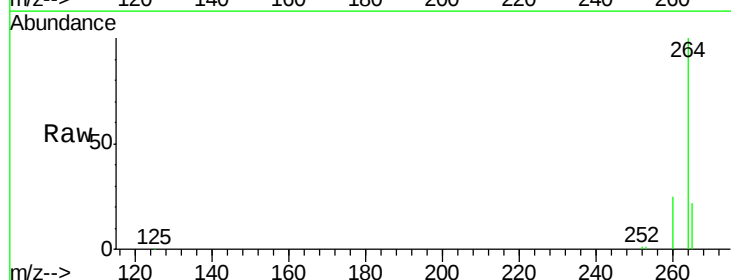
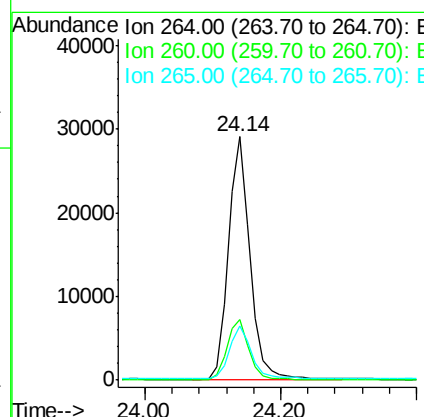
Manual Integrations
 APPROVED

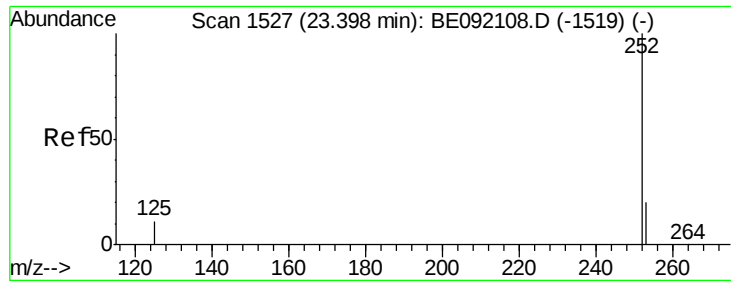
sohil
 8/5/2016 6:58:11 PM



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.6	20.8	31.2
265	22.0	16.6	25.0





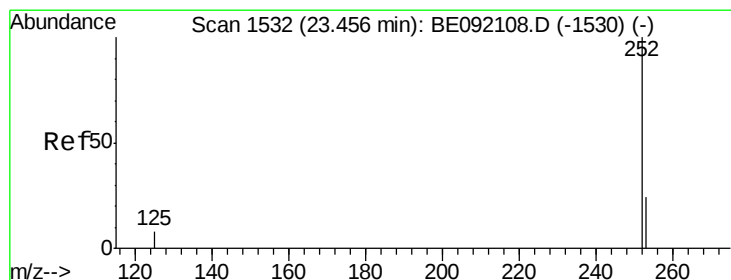
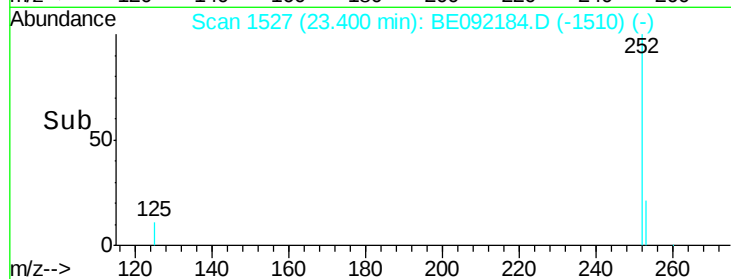
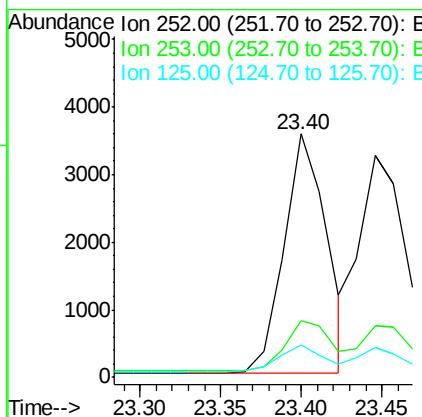
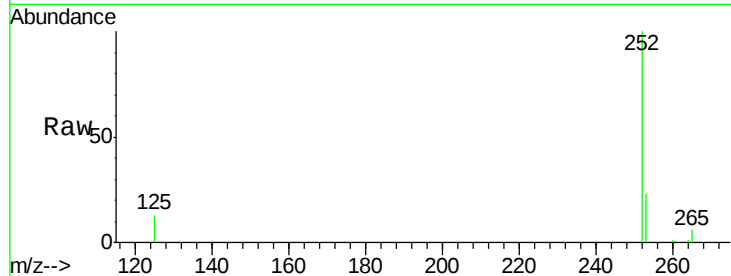
#29
Benzo(b)fluoranthene
Concen: 0.37 ng
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.0
125	13.3	10.2	15.2

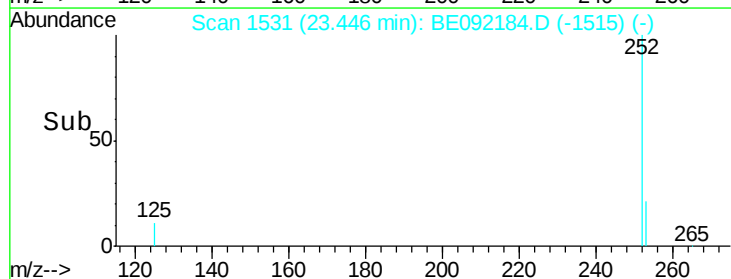
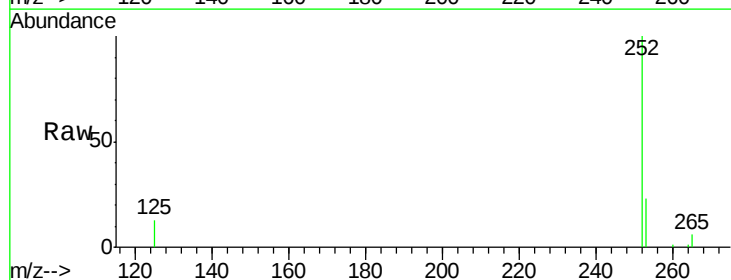
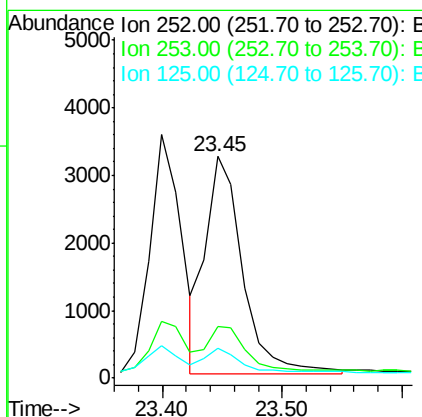
Manual Integrations
APPROVED

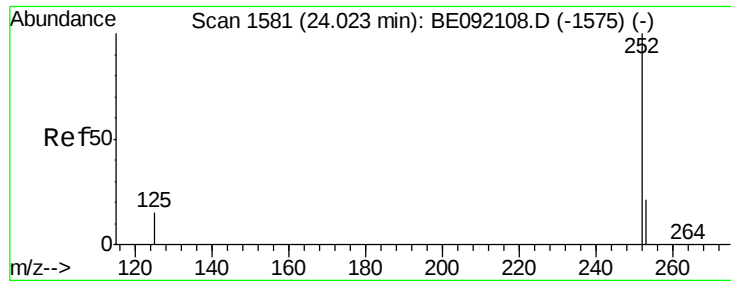
sohil
8/5/2016 6:58:11 PM



#30
Benzo(k)fluoranthene
Concen: 0.40 ng m
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092184.D
Acq: 4 Aug 2016 16:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	19.4	29.0
125	13.4	8.9	13.3





#31

Benzo(a)pyrene

Concen: 0.39 ng

RT: 24.02 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Instrument :

BNA_E

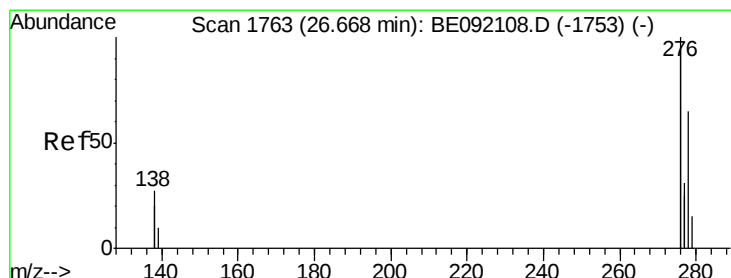
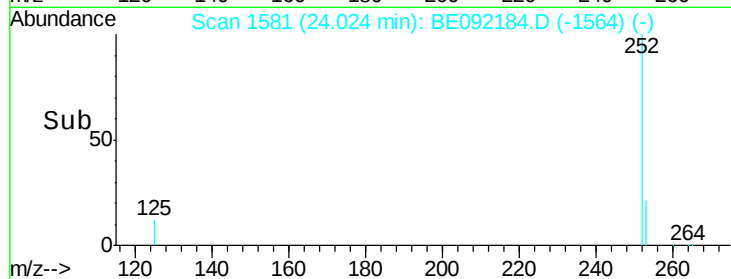
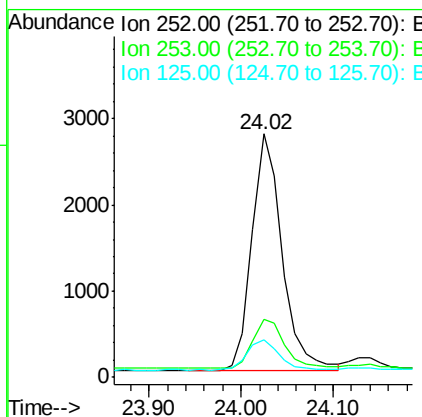
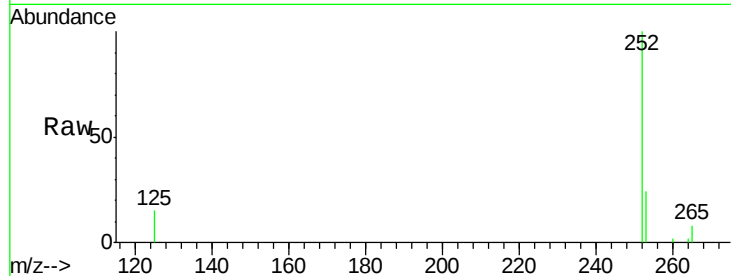
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	6332
Ion Ratio	Lower	Upper	
252	100		
253	23.9	19.8	29.8
125	15.2	10.4	15.6

Manual Integrations
APPROVED

sohil
8/5/2016 6:58:11 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.38 ng

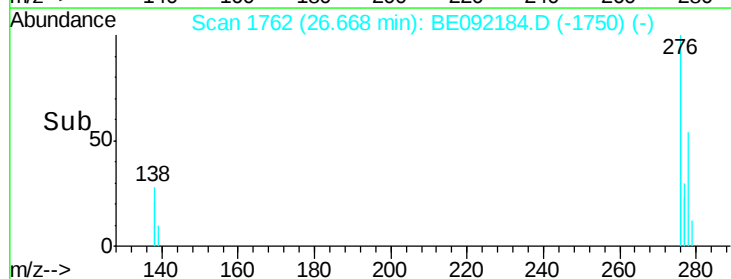
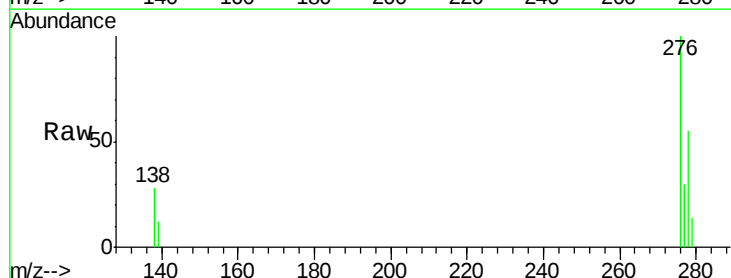
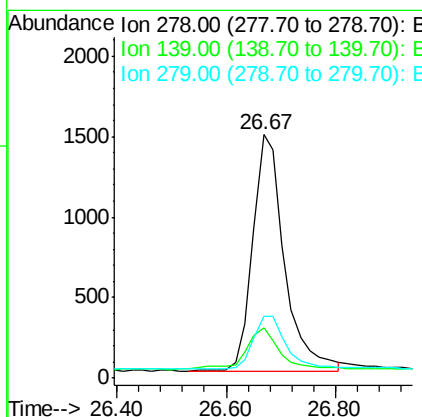
RT: 26.67 min Scan# 1762

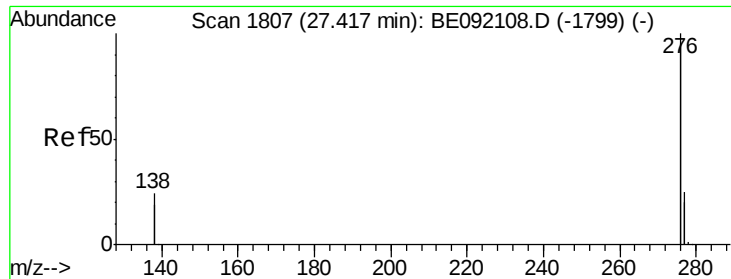
Delta R.T. 0.00 min

Lab File: BE092184.D

Acq: 4 Aug 2016 16:01

Tgt Ion:	278	Resp:	5889
Ion Ratio	Lower	Upper	
278	100		
139	21.0	16.7	25.1
279	25.6	20.3	30.5





#33
 Benzo(g,h,i)perylene
 Concen: 0.38 ng
 RT: 27.42 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: BE092184.D
 Acq: 4 Aug 2016 16:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.5	29.3
138	25.0	20.8	31.2

Manual Integrations
 APPROVED

sohil
 8/5/2016 6:58:11 PM

