

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092317\
 Data File : BE094090.D
 Acq On : 23 Sep 2017 22:34
 Operator : SJ/JU
 Sample : I5340-07
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-007

Manual Integrations
 APPROVED

Sohil
 9/25/2017 6:24:45 PM

Quant Time: Sep 25 13:28:34 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 25 13:07:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.90	152	2350	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	13304	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	8732	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	27035	0.40	ng	0.00
27) Chrysene-d12	21.40	240	15766	0.40	ng	0.00
34) Perylene-d12	23.91	264	15015	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.50	112	2882	0.14	ng	0.00
5) Phenol-d6	7.09	99	4689	0.34	ng	0.00
8) Nitrobenzene-d5	9.04	82	4352	0.37	ng	-0.02
11) 2-Methylnaphthalene-d10	12.27	152	7214	0.32	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	1205	0.18	ng	0.00
15) 2-Fluorobiphenyl	13.13	172	9456	0.33	ng	0.00
25) Fluoranthene-d10	19.27	212	55254	0.16	ng	0.00
29) Terphenyl-d14	19.85	244	8004	0.32	ng	0.00

Target Compounds					Qvalue	
9) Naphthalene	10.74	128	24487	0.144	ng	100
12) 2-Methylnaphthalene	12.35	142	1805	0.067	ng	95
16) Acenaphthylene	14.23	152	7937	0.181	ng	98
17) Acenaphthene	14.57	154	27103	0.929	ng	98
18) Fluorene	15.56	166	24389	0.562	ng	97
23) Phenanthrene	17.27	178	576869	5.957	ng	98
24) Anthracene	17.37	178	100983	1.352	ng	# 95
26) Fluoranthene	19.30	202	763524	7.349	ng	99
28) Pyrene	19.66	202	651549	14.936	ng	# 94
30) Benzo(a)anthracene	21.38	228	264971	5.019	ng	98
31) Chrysene	21.44	228	264947	5.120	ng	98
32) Bis(2-ethylhexyl)phthalate	21.29	149	34856	0.246	ng	100
33) Indeno(1,2,3-cd)pyrene	26.55	276	157646	3.941	ng	96
35) Benzo(b)fluoranthene	23.14	252	326558	6.009	ng	99
36) Benzo(k)fluoranthene	23.18	252	109875m	2.015	ng	
37) Benzo(a)pyrene	23.79	252	238666	4.891	ng	97
38) Dibenzo(a,h)anthracene	26.56	278	34740	0.889	ng	97
39) Benzo(a,h,i)perylene	27.37	276	159459	4.083	ng	97

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

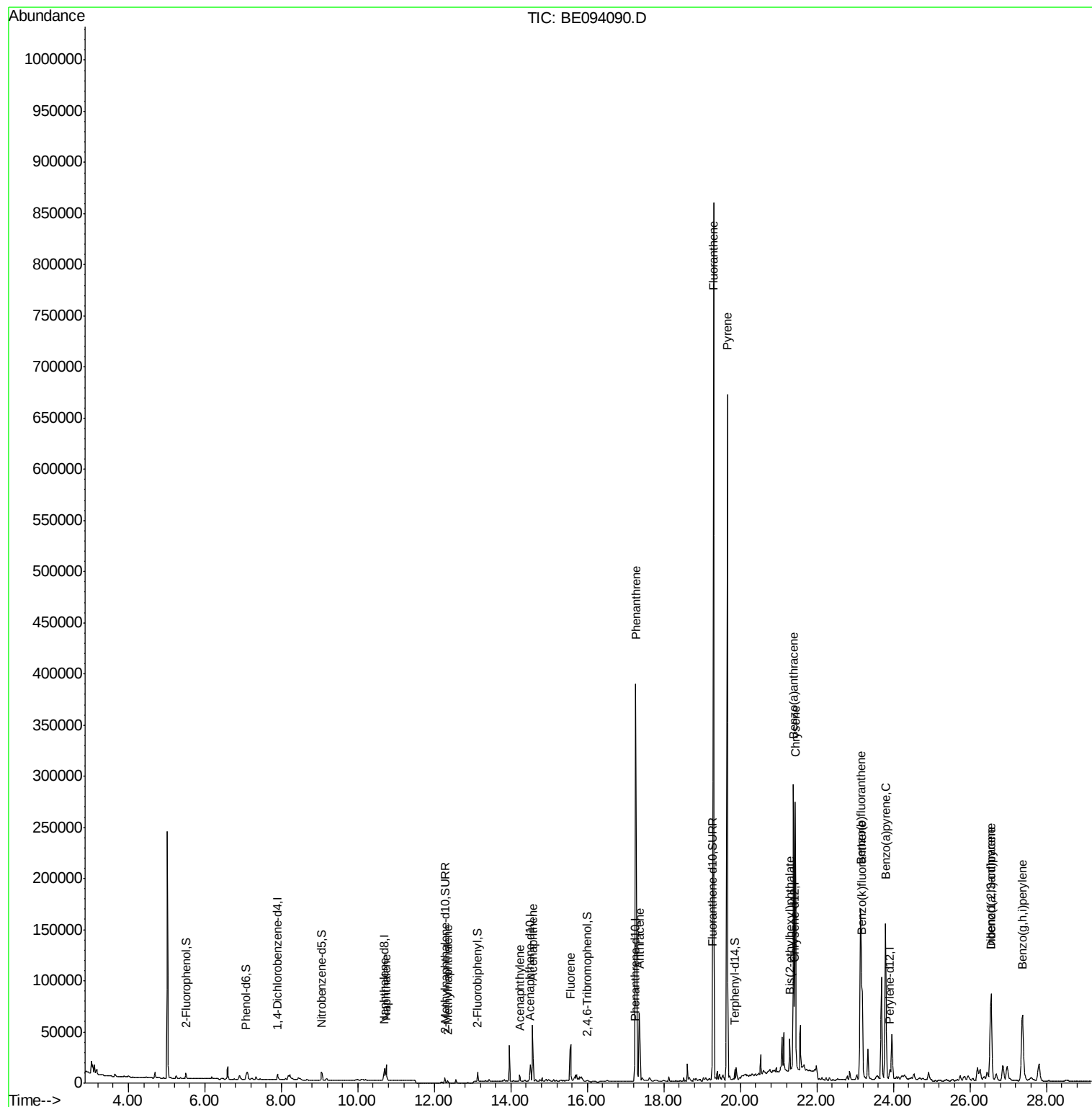
Data Path : Z:\HPCHEM1\BNA E\DATA\BE092317\
Data File : BE094090.D
Acq On : 23 Sep 2017 22:34
Operator : SJ/JU
Sample : I5340-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

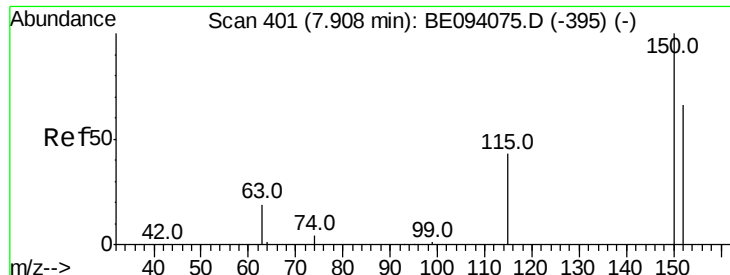
Instrument :
BNA_E
ClientSampled :
LT-TS-007

Manual Integrations
APPROVED

Sohil
9/25/2017 6:24:45 PM

Quant Time: Sep 25 13:28:34 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 25 13:07:29 2017
Response via : Initial Calibration





#1

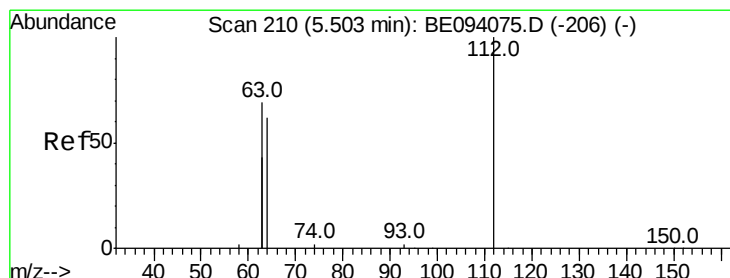
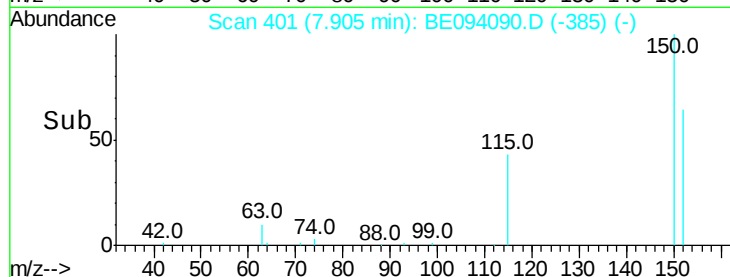
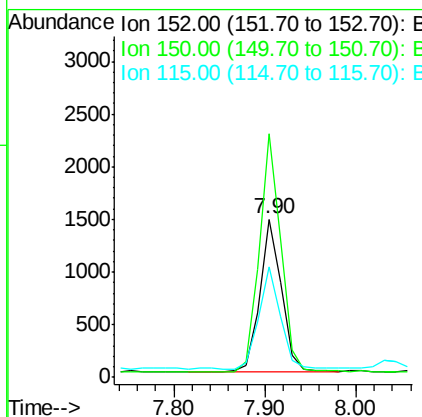
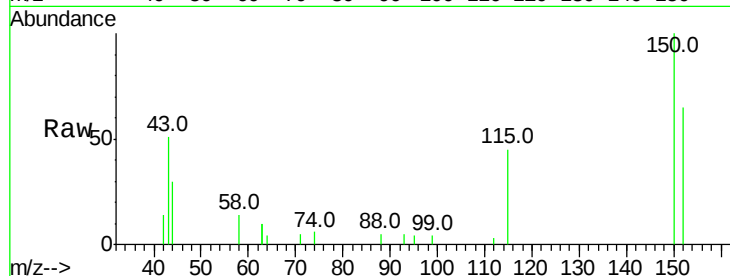
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.90 min Scan# 401
Delta R.T. -0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampleId :
LT-TS-007

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	117.2	175.8
115	70.0	57.0	85.6

Manual Integrations
APPROVED

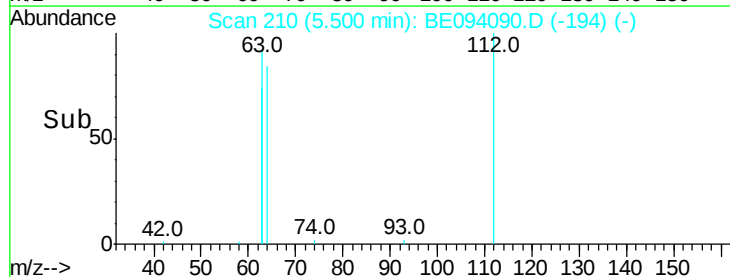
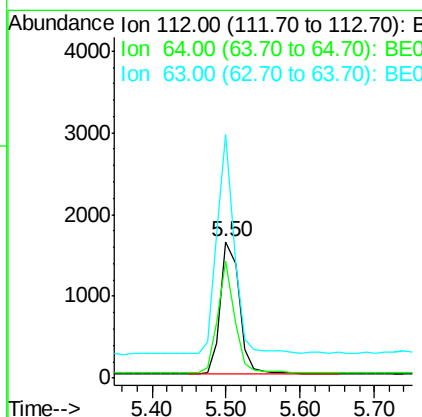
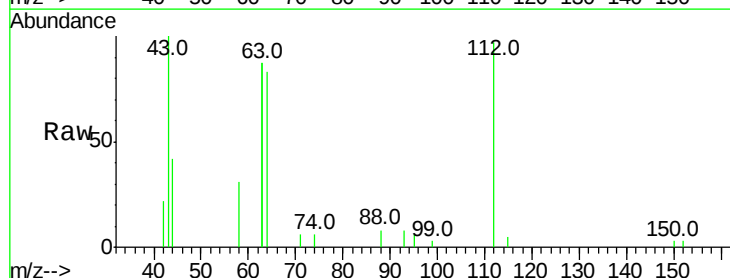
Sohil
9/25/2017 6:24:45 PM

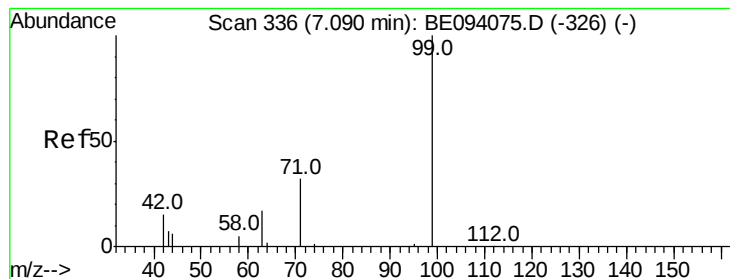


#4

2-Fluorophenol
Concen: 0.136 ng
RT: 5.50 min Scan# 210
Delta R.T. -0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.8	60.1	90.1
63	150.8	116.8	175.2





#5

Phenol-d6

Concen: 0.337 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Instrument :

BNA_E

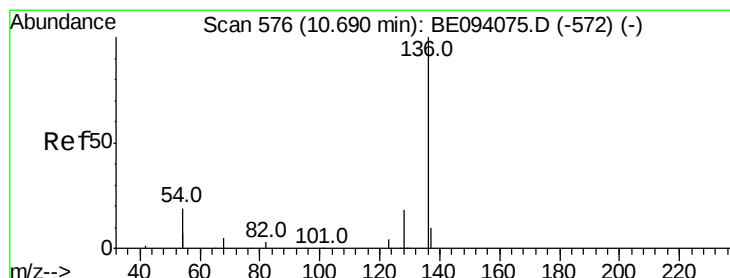
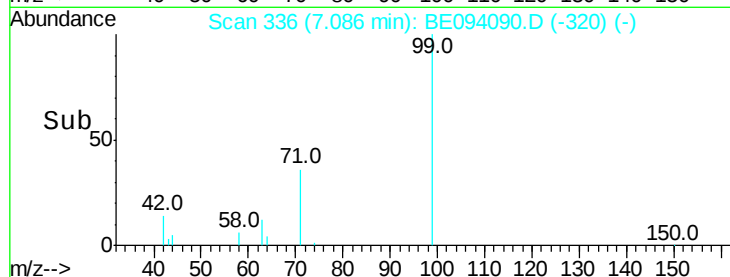
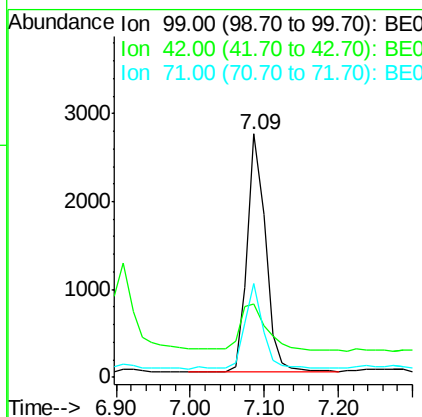
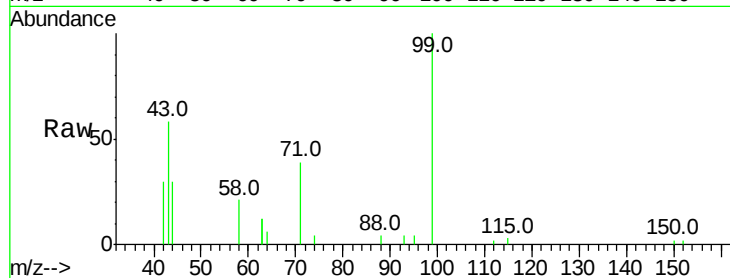
ClientSampleId :

LT-TS-007

Tot Ion:	99	Resp:	4689
Ion	Ratio	Lower	Upper
99	100		
42	29.8	20.2	30.2
71	34.3	28.4	42.6

Manual Integrations
APPROVED

Sohil
9/25/2017 6:24:45 PM



#7

Naphthalene-d8

Concen: 0.400 ng

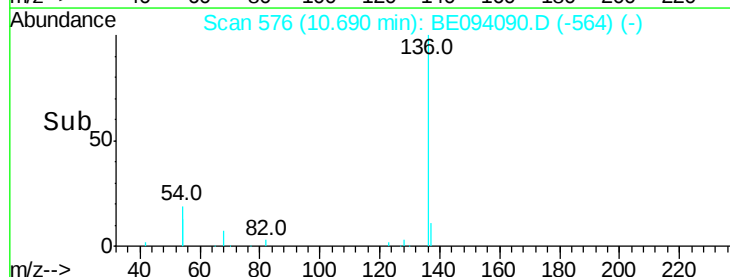
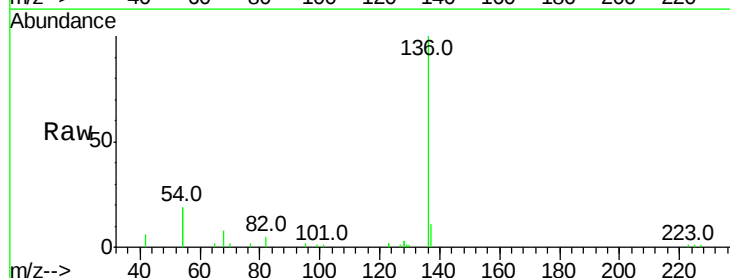
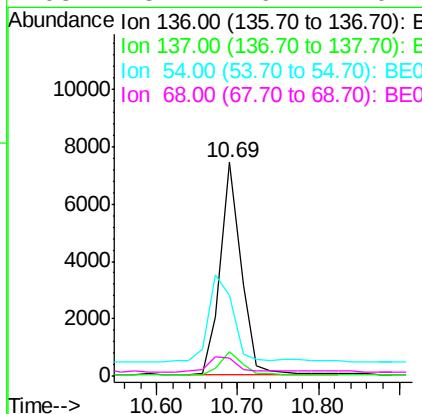
RT: 10.69 min Scan# 576

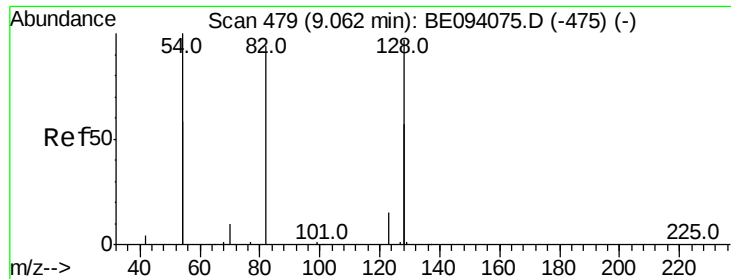
Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Tgt Ion:	136	Resp:	13304
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.5	14.3
54	37.8	29.1	43.7
68	8.4	6.2	9.2





#8

Nitrobenzene-d5

Concen: 0.368 ng

RT: 9.04 min Scan# 478

Delta R.T. -0.02 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Instrument :

BNA_E

ClientSampled :

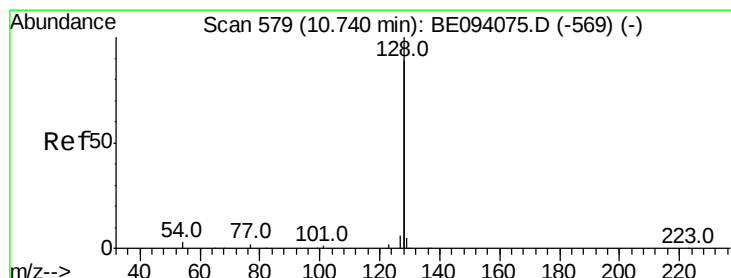
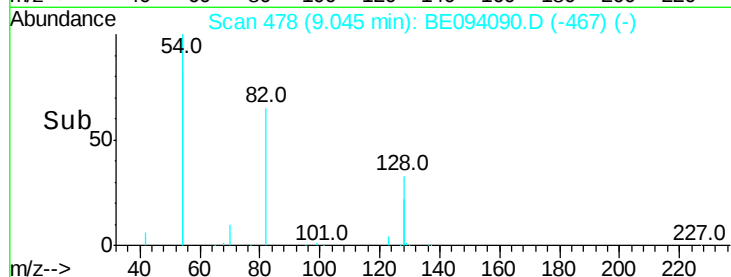
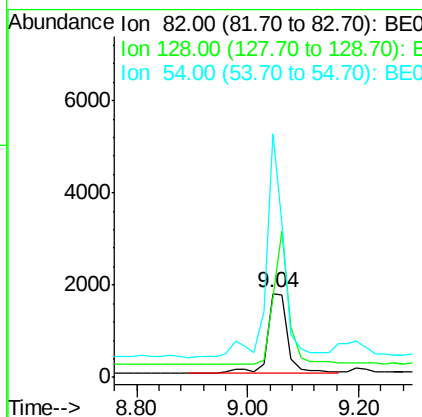
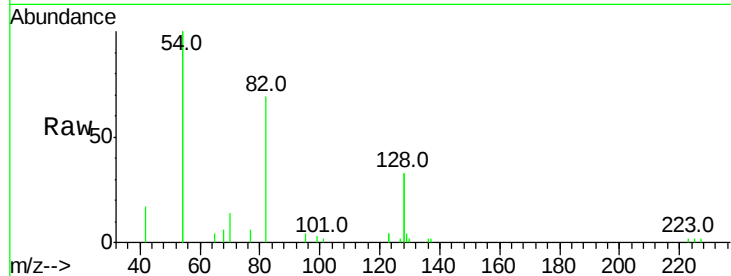
LT-TS-007

Tot Ion:	82	Resp:	4352
Ion Ratio	Lower	Upper	
82	100		
128	95.4	150.0	225.0#
54	290.0	154.2	231.4#

Manual Integrations
APPROVED

Sohil

9/25/2017 6:24:45 PM



#9

Naphthalene

Concen: 0.144 ng

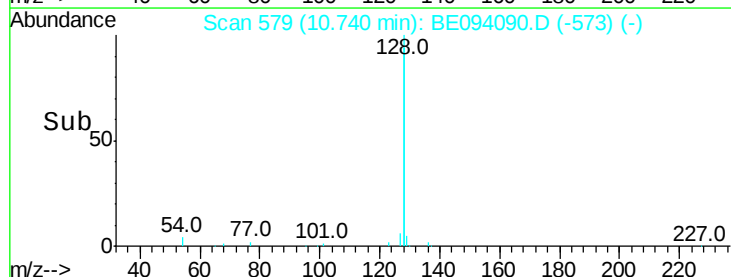
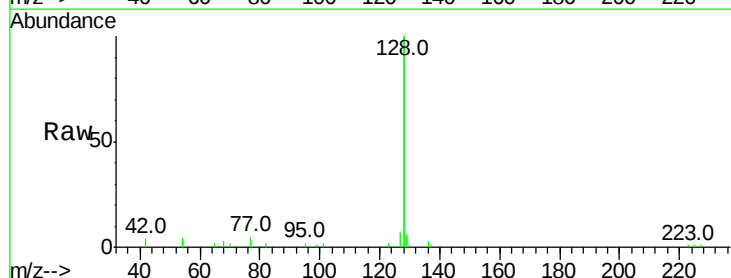
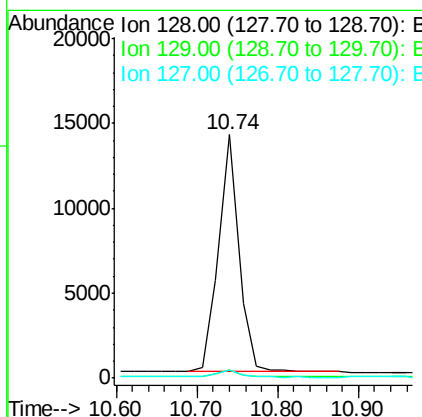
RT: 10.74 min Scan# 579

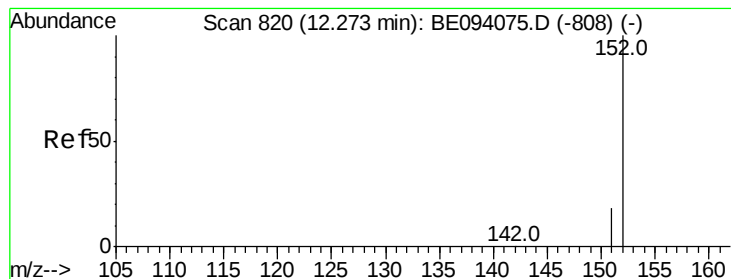
Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Tgt Ion:	128	Resp:	24487
Ion Ratio	Lower	Upper	
128	100		
129	3.2	2.6	3.8
127	3.3	2.8	4.2





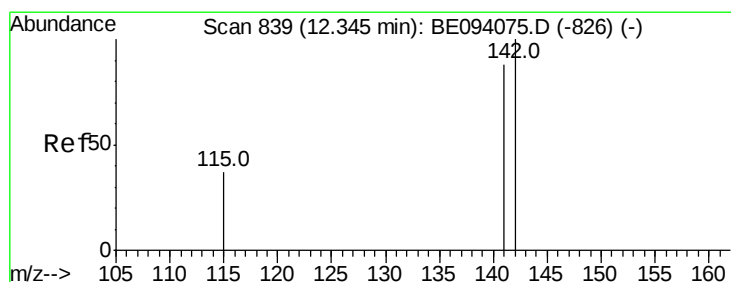
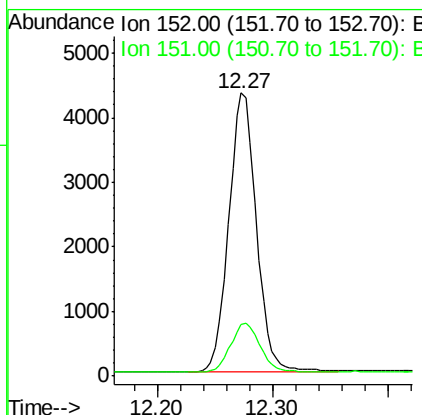
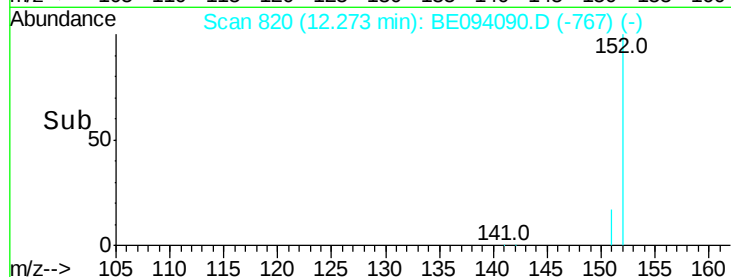
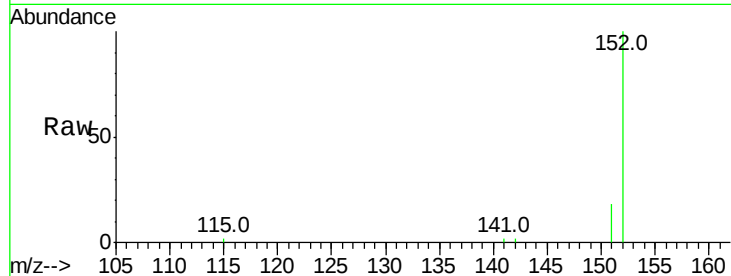
#11
 2-Methylnaphthalene-d10
 Concen: 0.320 ng
 RT: 12.27 min Scan# 820
 Delta R.T. 0.00 min
 Lab File: BE094090.D
 Acq: 23 Sep 2017 22:34

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-007

Tot Ion:152 Resp: 7214
 Ion Ratio Lower Upper
 152 100
 151 18.8 15.4 23.0

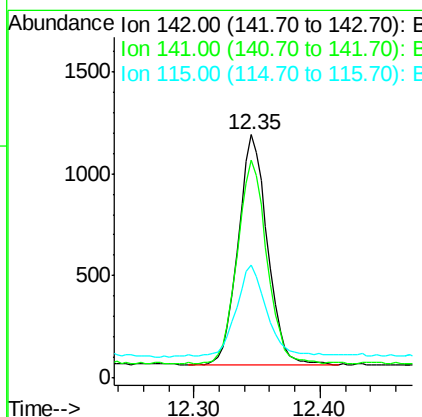
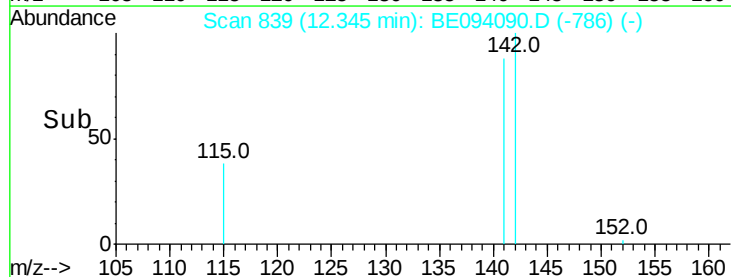
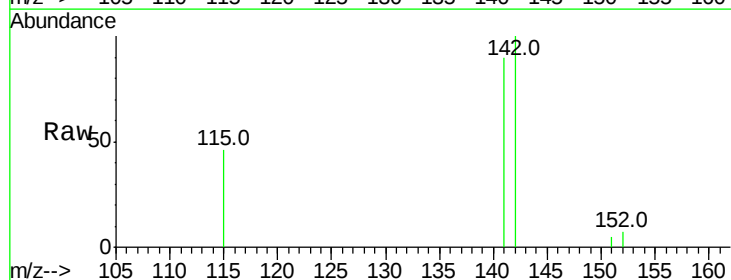
Manual Integrations
 APPROVED

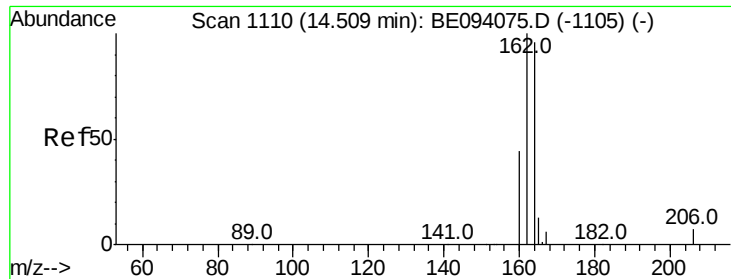
Sohil
 9/25/2017 6:24:45 PM



#12
 2-Methylnaphthalene
 Concen: 0.067 ng
 RT: 12.35 min Scan# 839
 Delta R.T. -0.00 min
 Lab File: BE094090.D
 Acq: 23 Sep 2017 22:34

Tgt Ion:142 Resp: 1805
 Ion Ratio Lower Upper
 142 100
 141 89.8 70.4 105.6
 115 46.2 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.51 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Instrument :

BNA_E

ClientSampleId :

LT-TS-007

Tot Ion:164 Resp: 8732

Ion Ratio Lower Upper

164 100

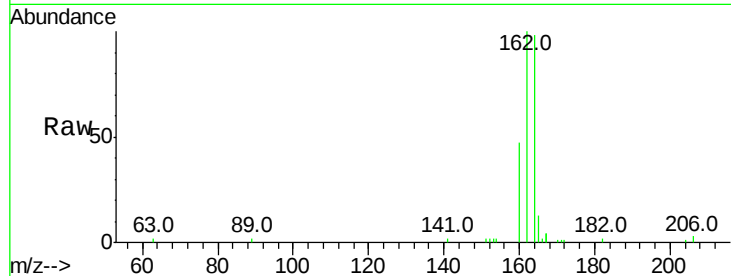
162 102.5 83.1 124.7

160 47.9 37.1 55.7

Manual Integrations
APPROVED

Sohil

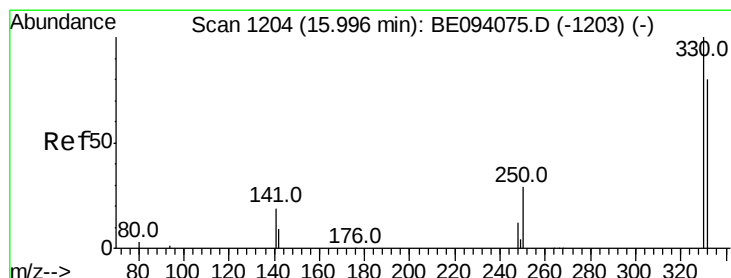
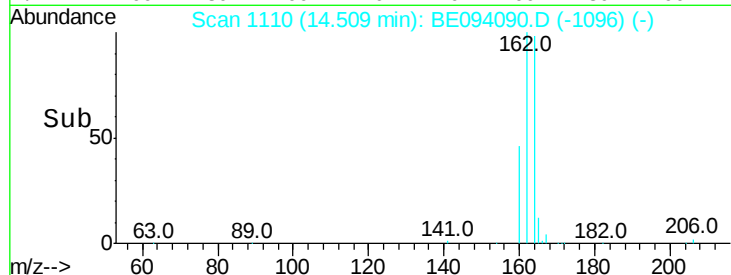
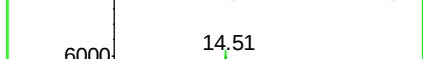
9/25/2017 6:24:45 PM



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.182 ng

RT: 16.00 min Scan# 1204

Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

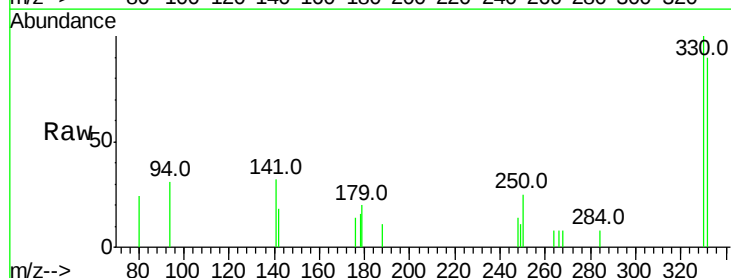
Tgt Ion:330 Resp: 1205

Ion Ratio Lower Upper

330 100

332 91.7 152.7 229.1#

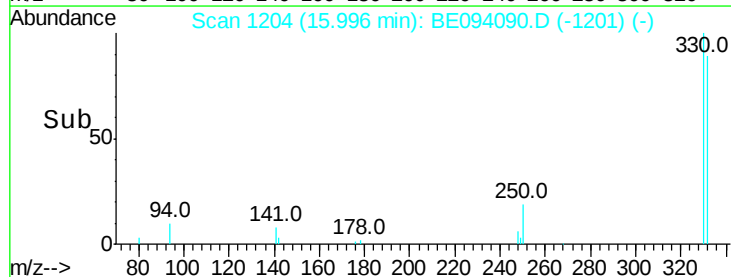
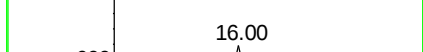
141 0.0 33.7 50.5#

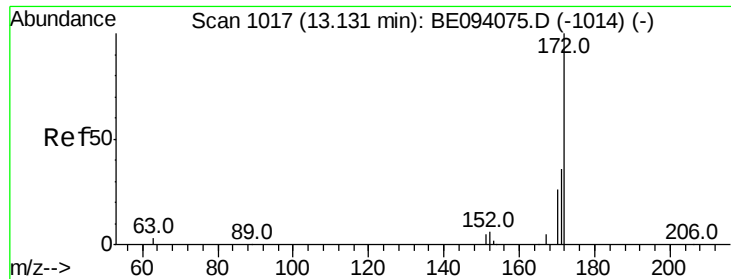


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





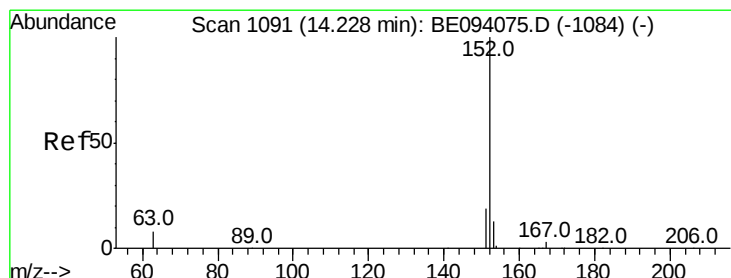
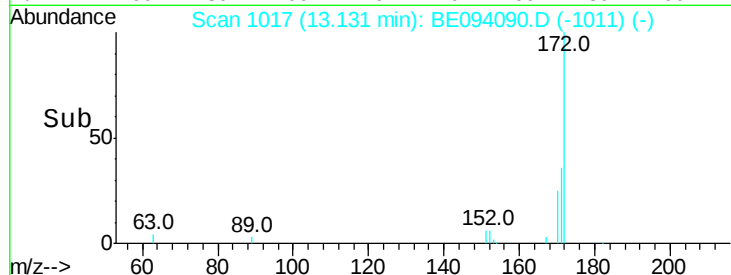
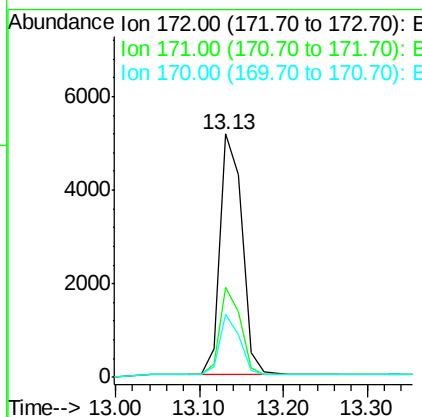
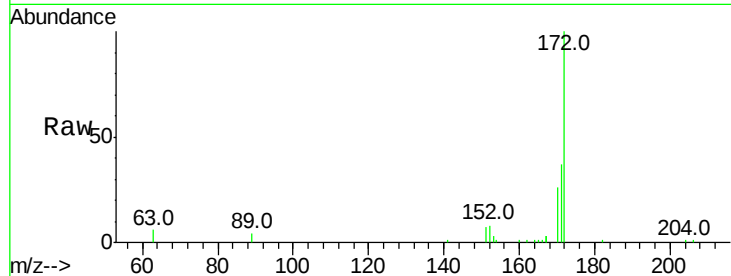
#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 13.13 min Scan# 1017
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampleId :
LT-TS-007

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.9	44.9
170	25.8	21.8	32.8

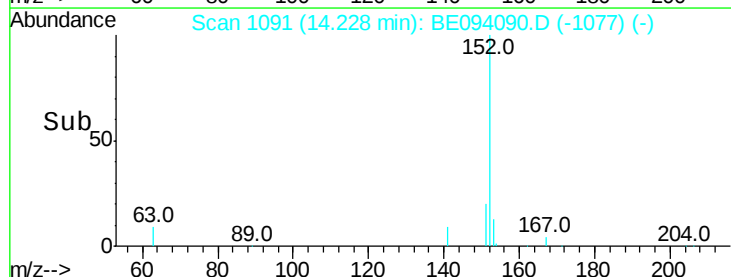
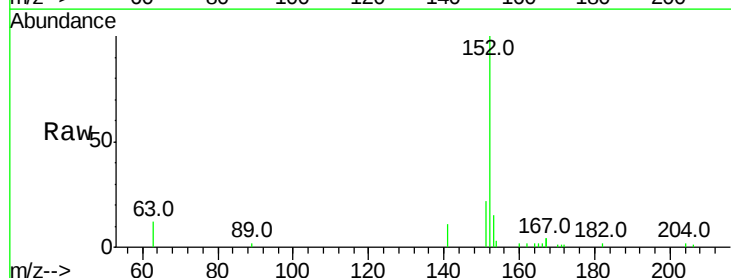
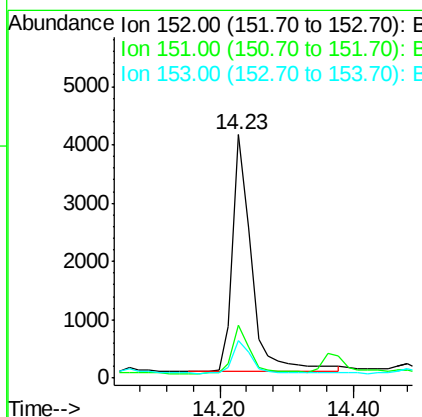
Manual Integrations
APPROVED

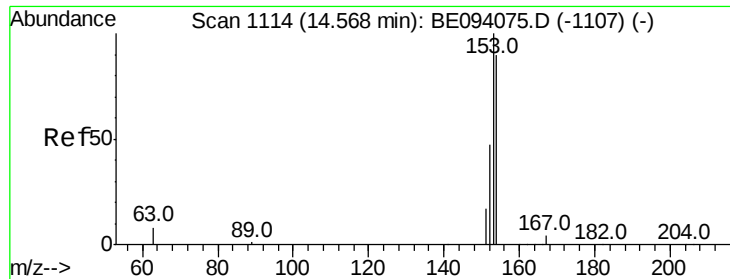
Sohil
9/25/2017 6:24:45 PM



#16
Acenaphthylene
Concen: 0.181 ng
RT: 14.23 min Scan# 1091
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.9	15.7	23.5
153	14.3	10.5	15.7





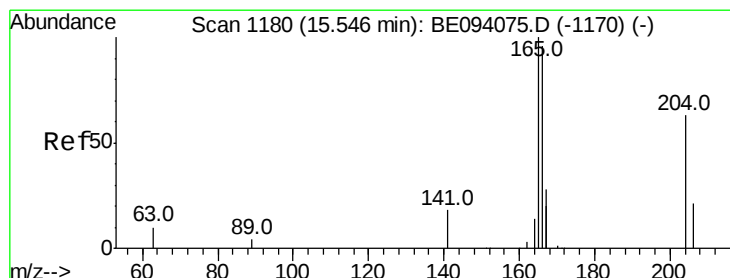
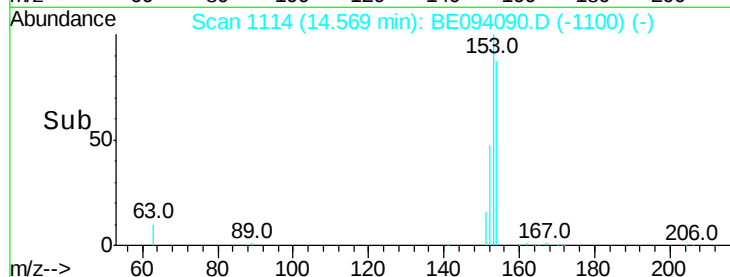
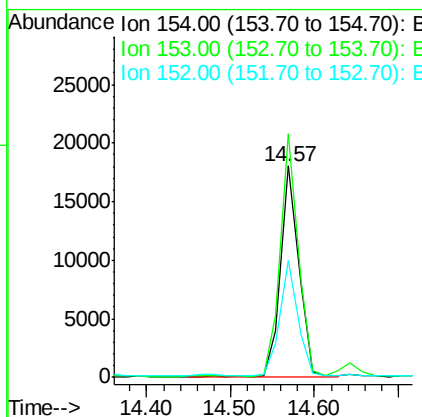
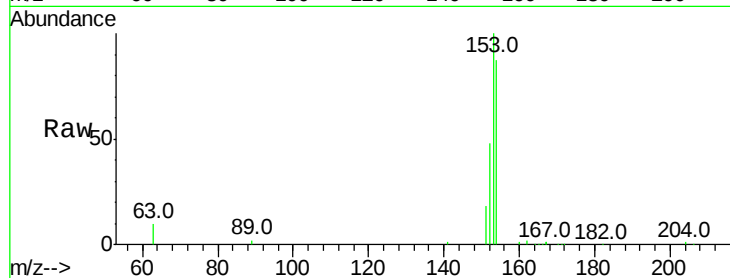
#17
Acenaphthene
Concen: 0.929 ng
RT: 14.57 min Scan# 1114
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampled :
LT-TS-007

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.9	89.2	133.8
152	53.9	42.0	63.0

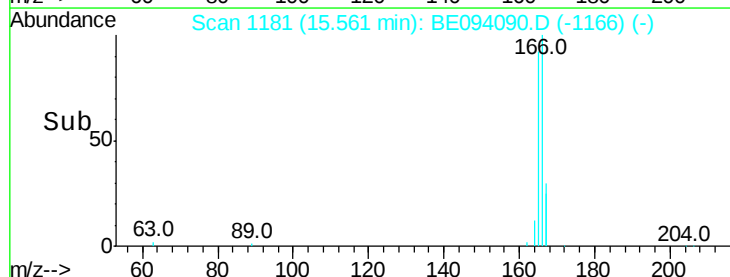
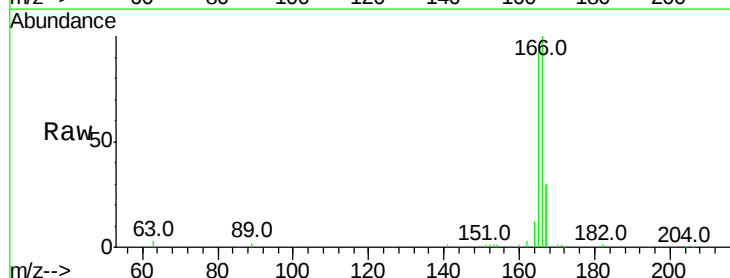
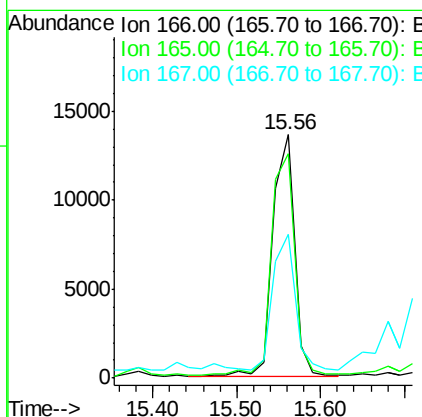
Manual Integrations
APPROVED

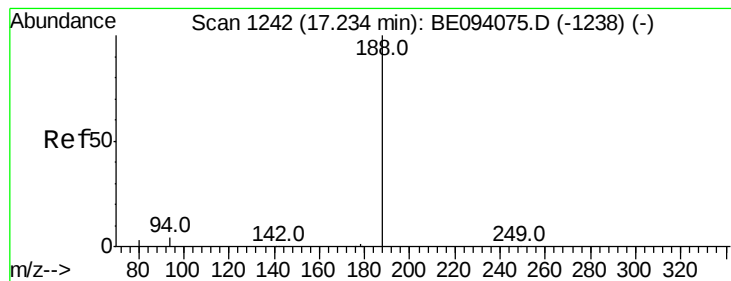
Sohil
9/25/2017 6:24:45 PM



#18
Fluorene
Concen: 0.562 ng
RT: 15.56 min Scan# 1181
Delta R.T. 0.02 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	77.8	116.6
167	58.3	42.4	63.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1242

Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Instrument :

BNA_E

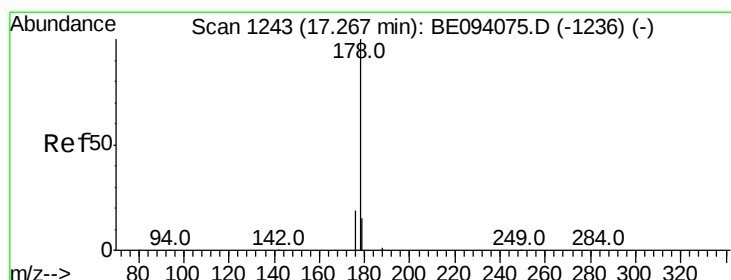
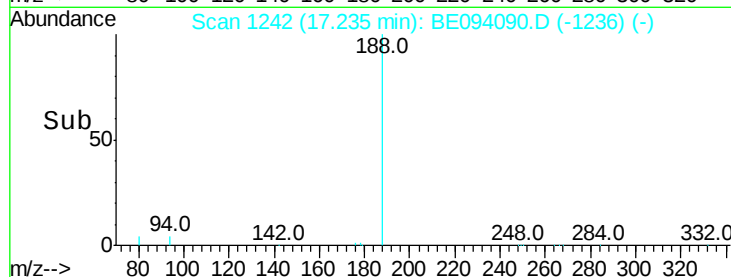
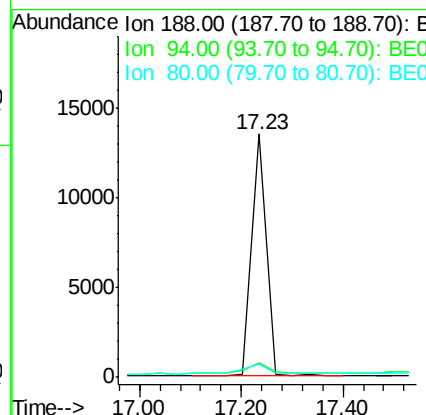
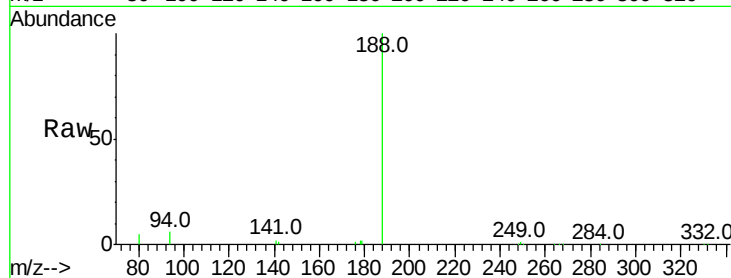
ClientSampleId :

LT-TS-007

Tot Ion:	188	Resp:	27035
Ion Ratio	Lower	Upper	
188	100		
94	5.8	3.9	5.9
80	5.4	3.6	5.4

Manual Integrations
APPROVED

Sohil
9/25/2017 6:24:45 PM



#23

Phenanthrene

Concen: 5.957 ng

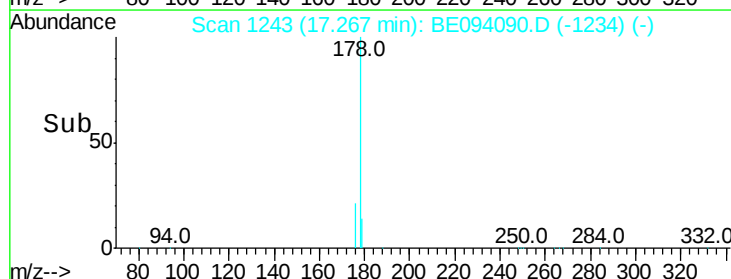
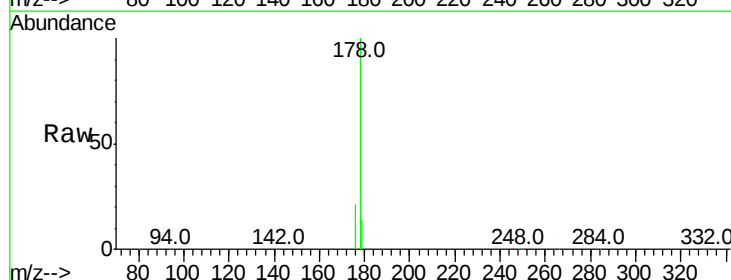
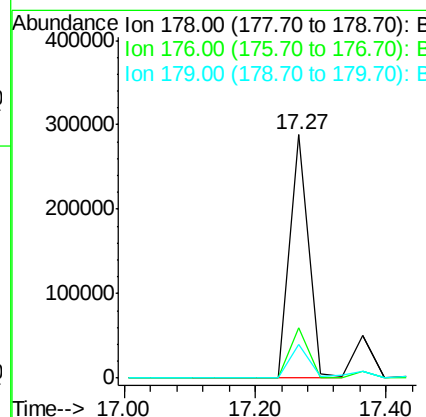
RT: 17.27 min Scan# 1243

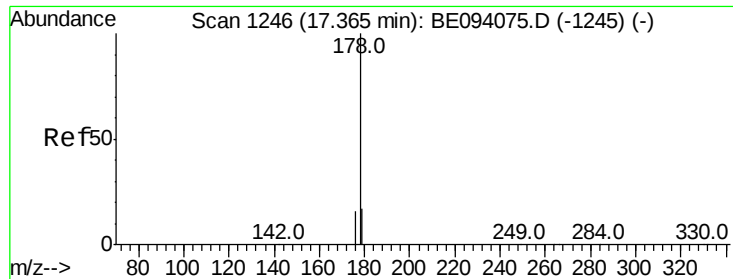
Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Tgt Ion:	178	Resp:	576869
Ion Ratio	Lower	Upper	
178	100		
176	20.7	15.1	22.7
179	14.8	11.8	17.6





#24

Anthracene

Concen: 1.352 ng

RT: 17.37 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Instrument :

BNA_E

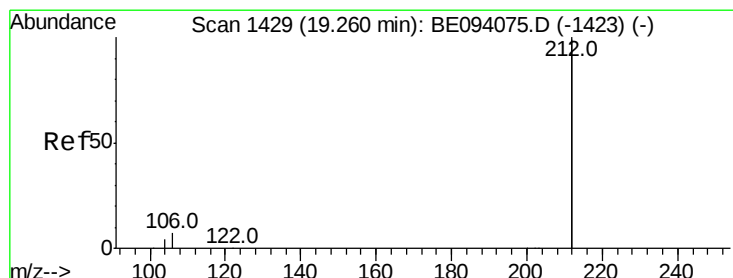
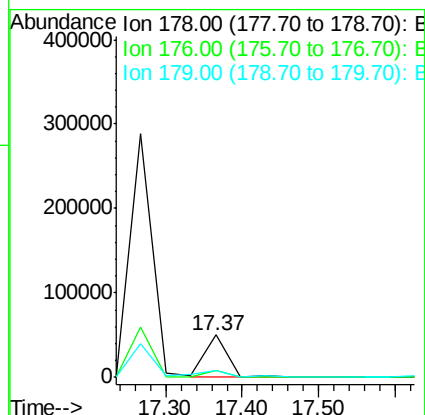
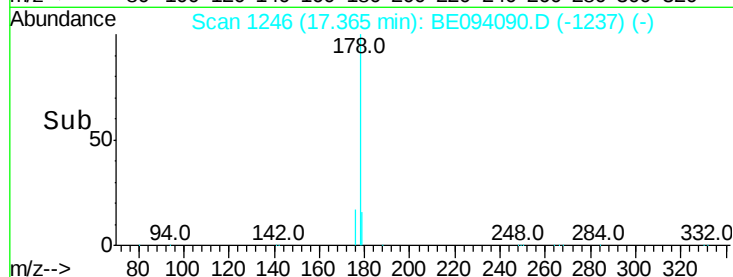
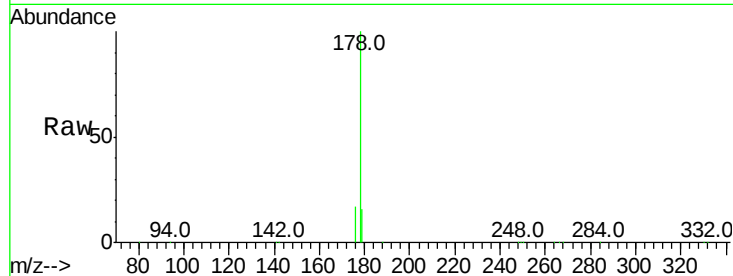
ClientSampleId :

LT-TS-007

Tot Ion	Ratio	Lower	Upper
178	100		
176	16.9	12.8	19.2
179	19.8	13.0	19.6

Manual Integrations
APPROVED

Sohil
9/25/2017 6:24:45 PM



#25

Fluoranthene-d10

Concen: 0.159 ng

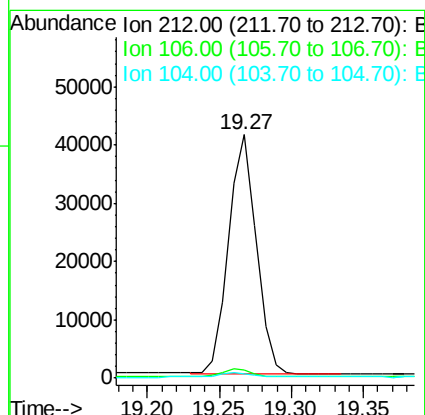
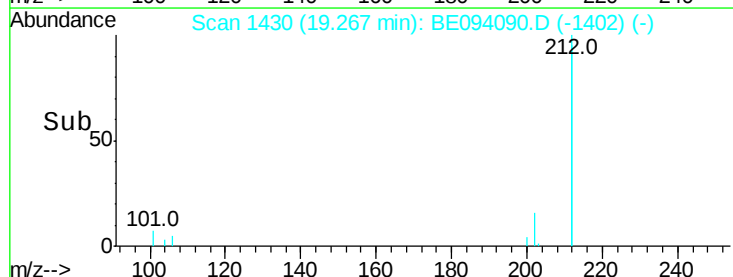
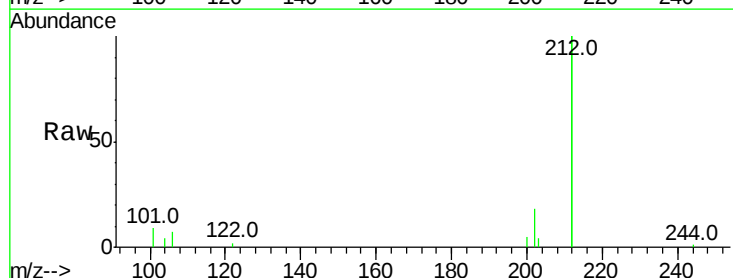
RT: 19.27 min Scan# 1430

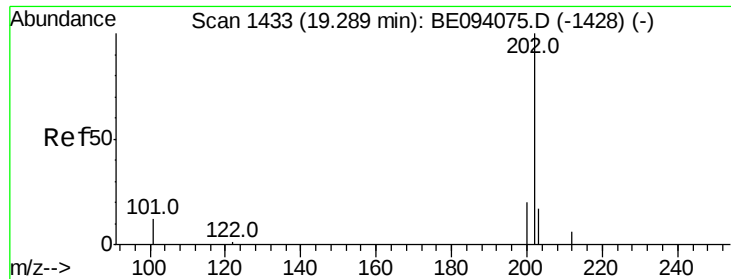
Delta R.T. 0.01 min

Lab File: BE094090.D

Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
212	100		
106	3.7	2.8	4.2
104	2.3	1.6	2.4





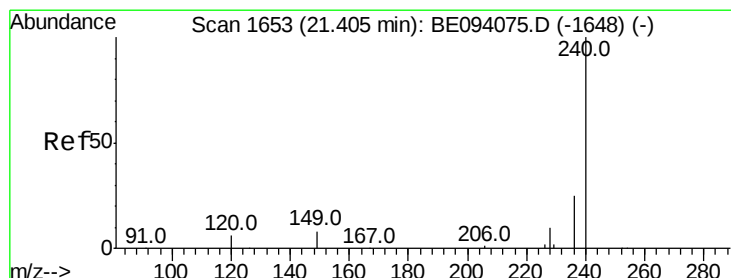
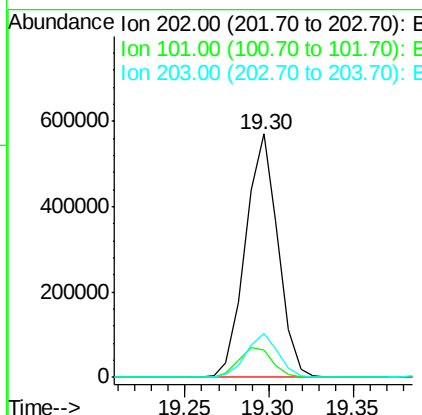
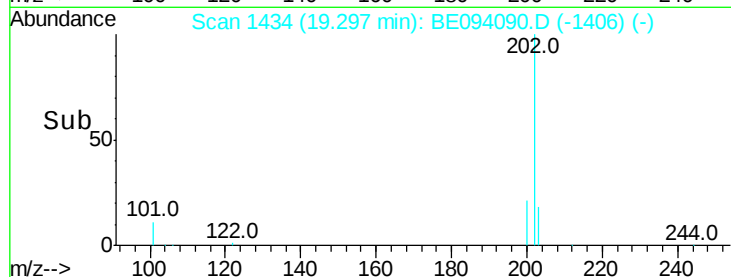
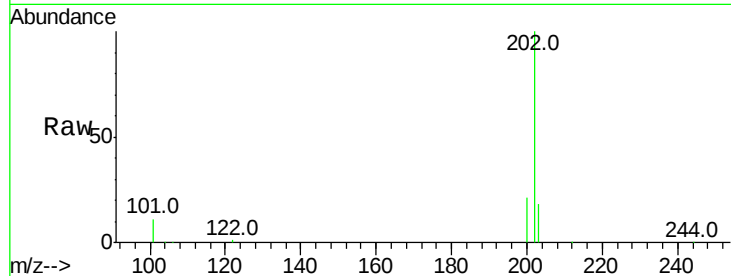
#26
Fluoranthene
Concen: 7.349 ng
RT: 19.30 min Scan# 1434
Delta R.T. 0.01 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampleId :
LT-TS-007

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.7	9.8	14.8
203	17.7	13.7	20.5

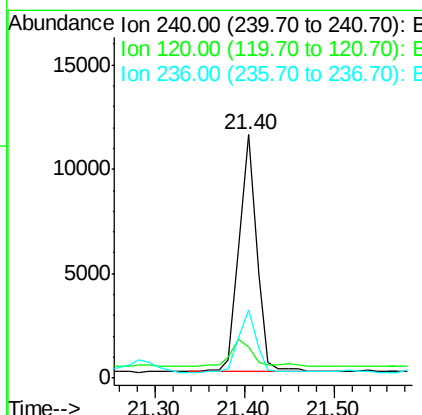
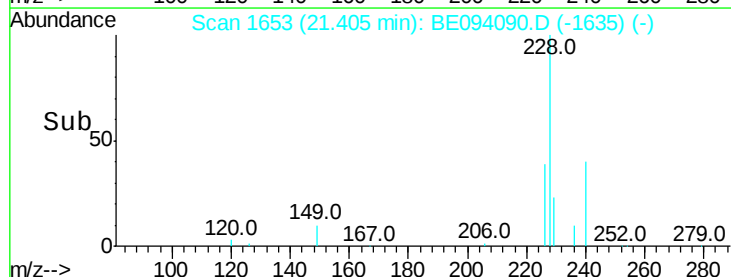
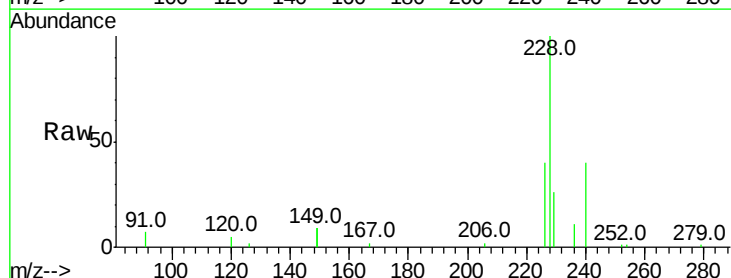
Manual Integrations
APPROVED

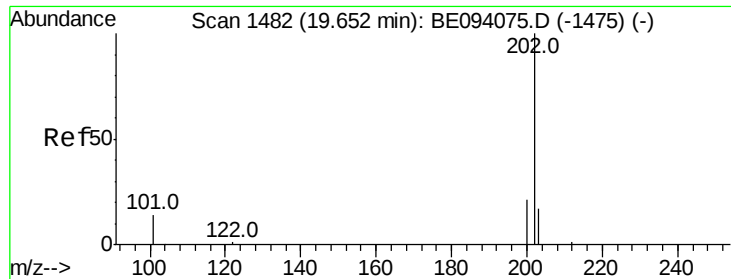
Sohil
9/25/2017 6:24:45 PM



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.40 min Scan# 1653
Delta R.T. -0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.9	5.5	8.3#
236	28.1	20.7	31.1





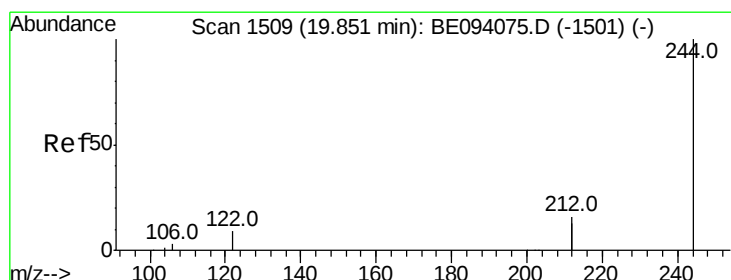
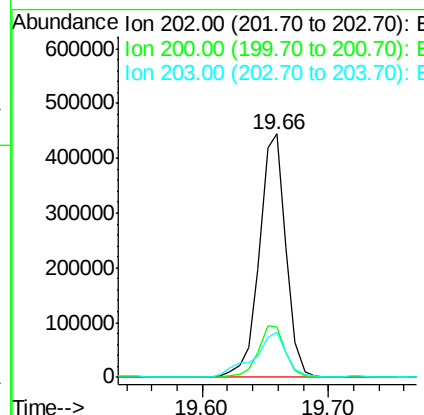
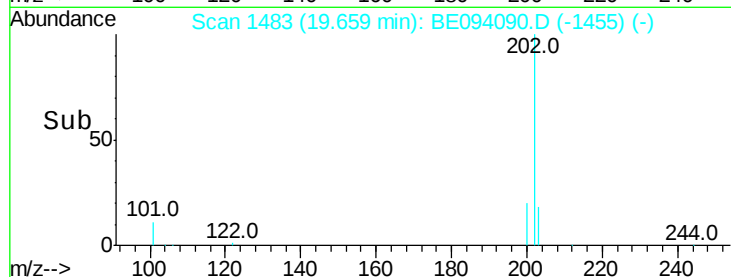
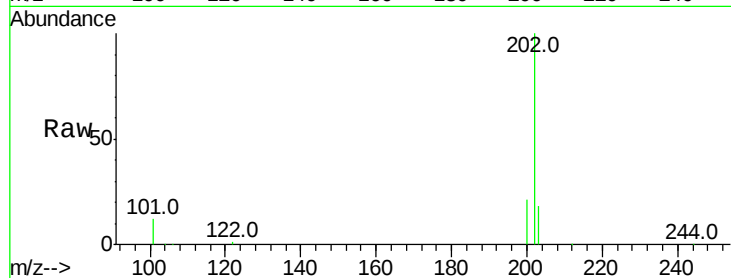
#28
Pvrene
Concen: 14.936 ng
RT: 19.66 min Scan# 1483
Delta R.T. 0.01 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampleId :
LT-TS-007

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.4	16.6	25.0
203	22.7	13.8	20.8

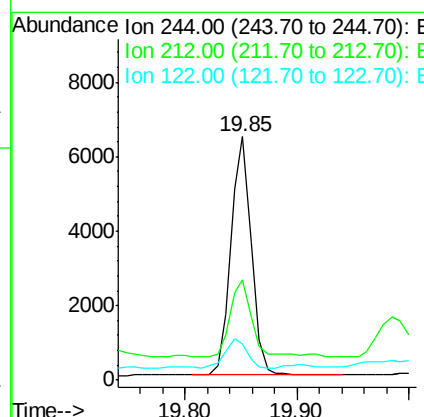
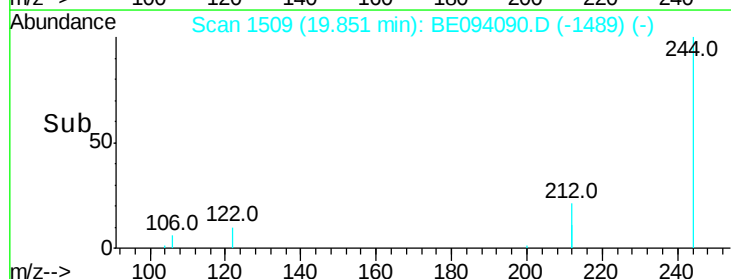
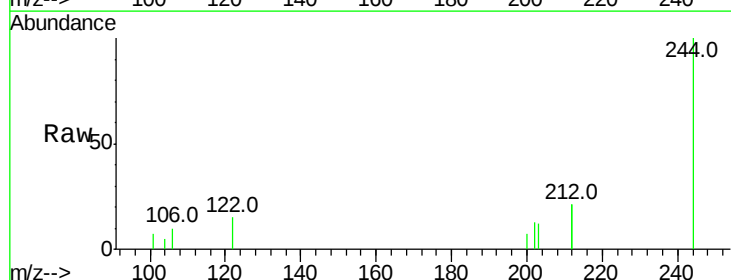
Manual Integrations
APPROVED

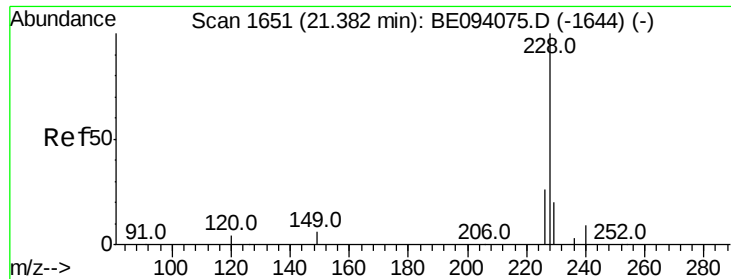
Sohil
9/25/2017 6:24:45 PM



#29
Terphenyl-d14
Concen: 0.324 ng
RT: 19.85 min Scan# 1509
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	41.0	25.4	38.0
122	14.7	8.1	12.1





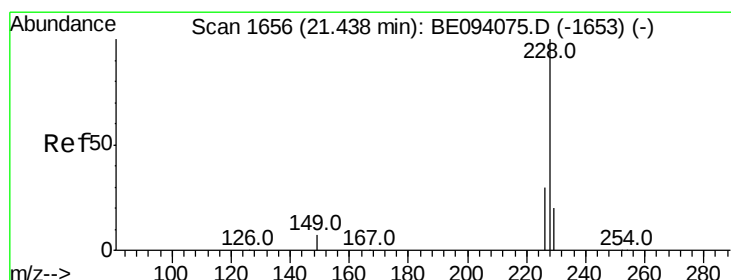
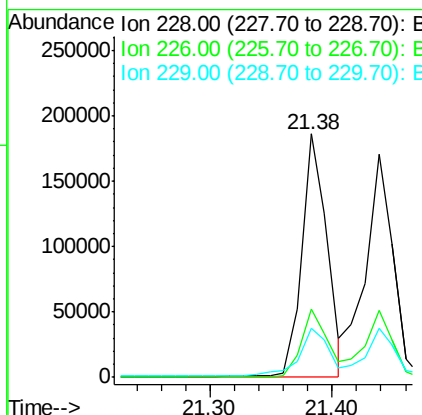
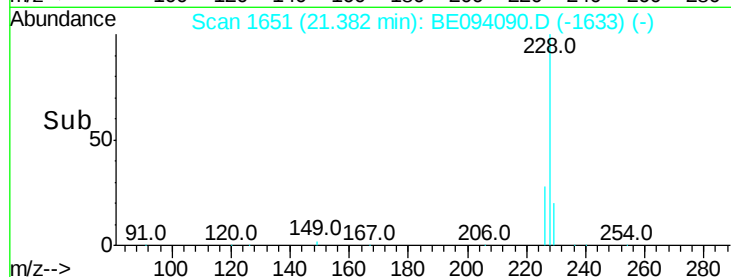
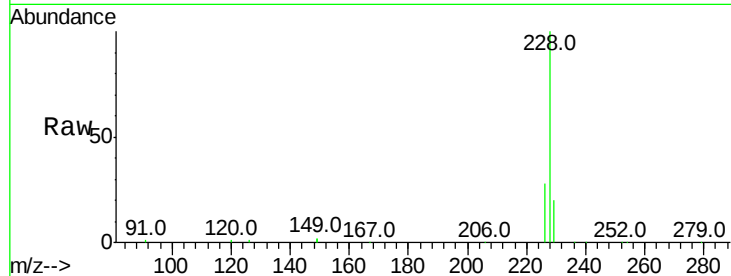
#30
Benzo(a)anthracene
Concen: 5.019 ng
RT: 21.38 min Scan# 1651
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampled :
LT-TS-007

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	21.4	32.0
229	20.3	16.4	24.6

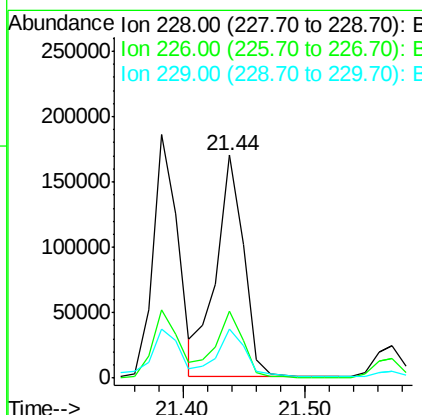
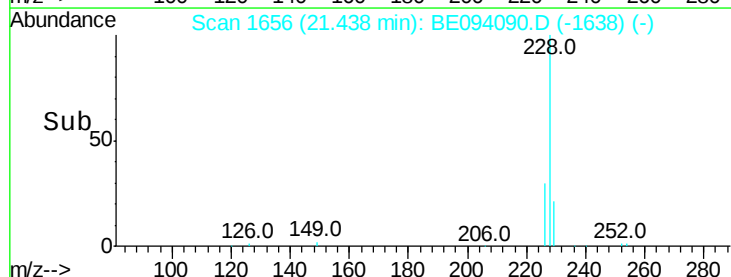
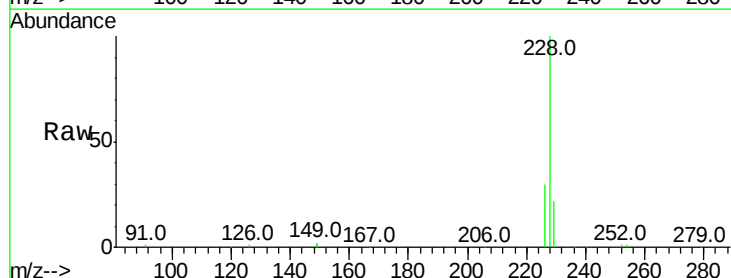
Manual Integrations
APPROVED

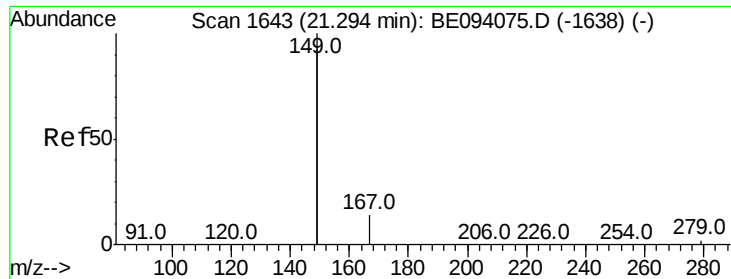
Sohil
9/25/2017 6:24:45 PM



#31
Chrysene
Concen: 5.120 ng
RT: 21.44 min Scan# 1656
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.6	35.4
229	21.8	16.4	24.6





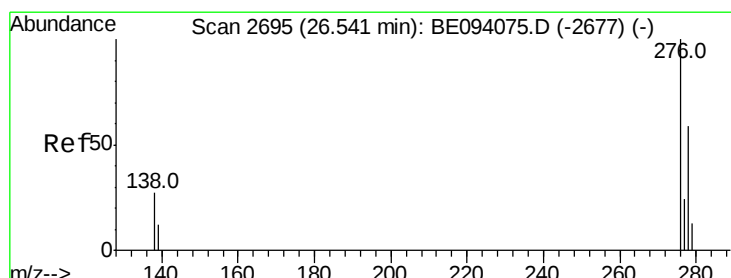
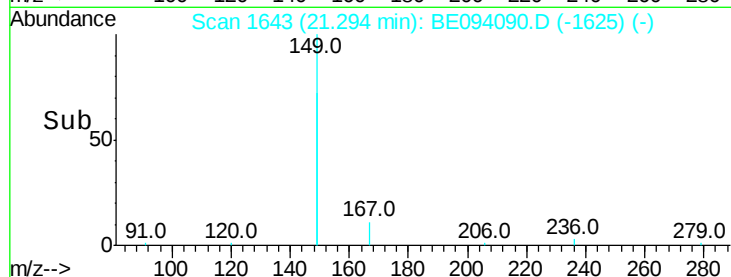
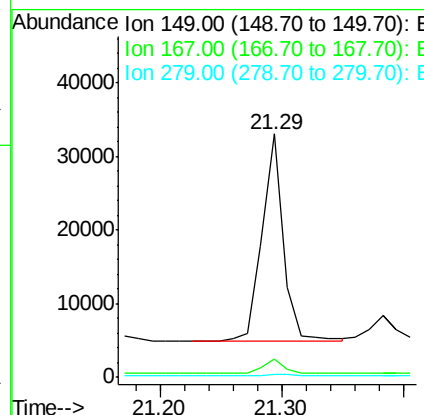
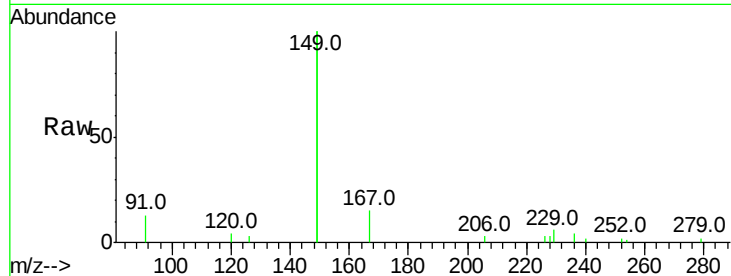
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.246 ng
 RT: 21.29 min Scan# 1643
 Delta R.T. 0.00 min
 Lab File: BE094090.D
 Acq: 23 Sep 2017 22:34

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-007

Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	6.8	5.4	8.0	
279	0.8	0.7	1.1	

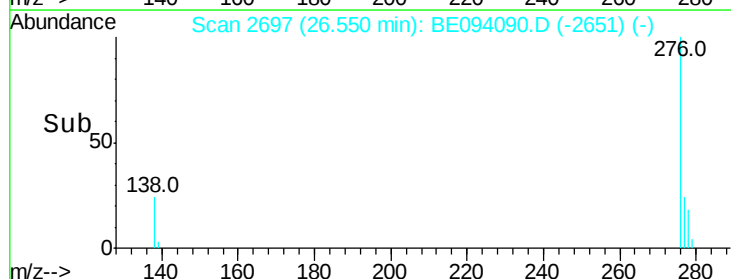
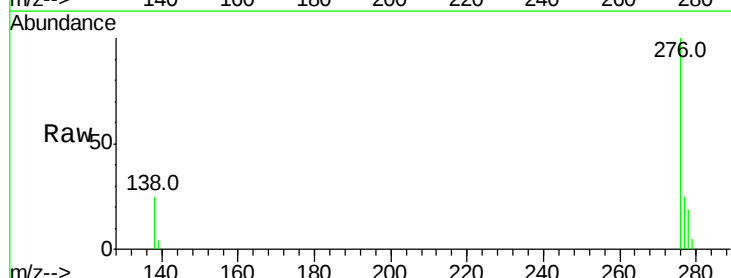
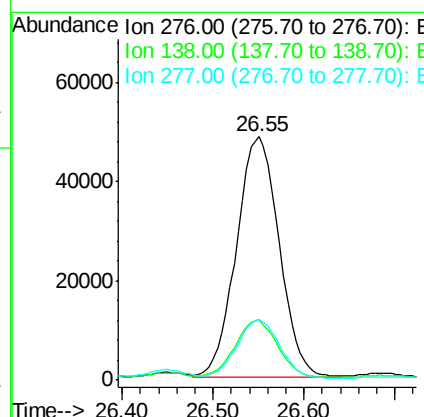
Manual Integrations
 APPROVED

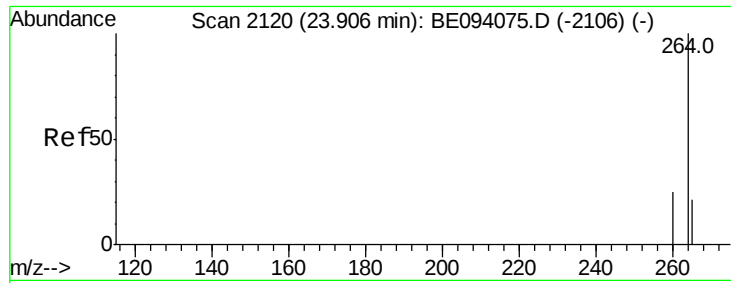
Sohil
 9/25/2017 6:24:45 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 3.941 ng
 RT: 26.55 min Scan# 2697
 Delta R.T. 0.01 min
 Lab File: BE094090.D
 Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	24.1	22.5	33.7	
277	24.5	19.9	29.9	





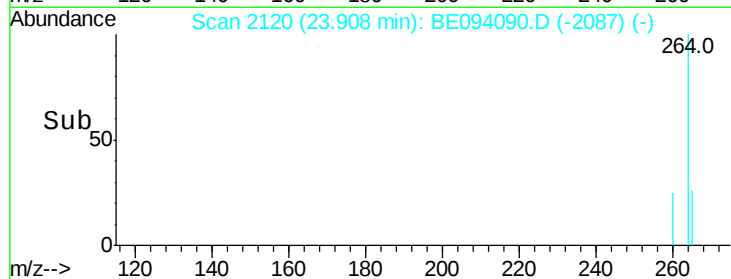
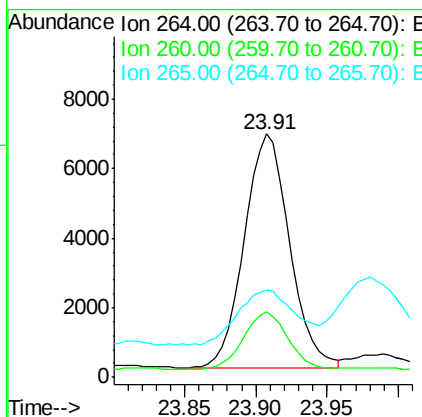
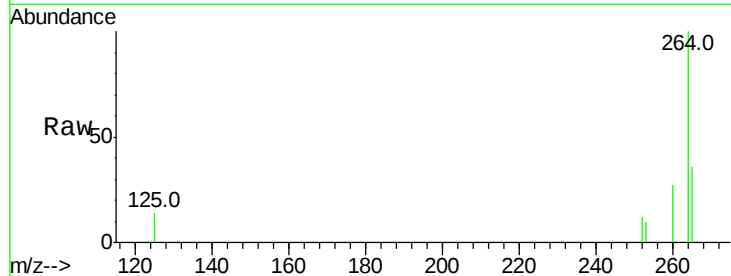
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.91 min Scan# 2120
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampleId :
LT-TS-007

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	27.1	20.5	30.7	
265	36.0	22.8	34.2	

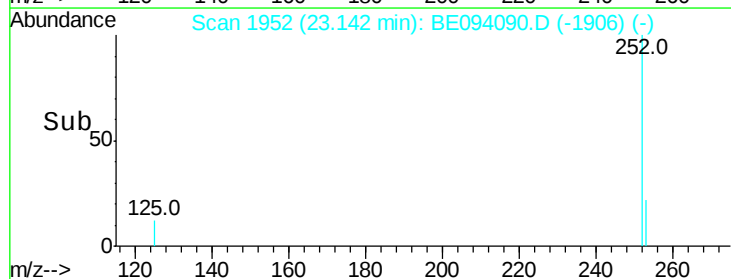
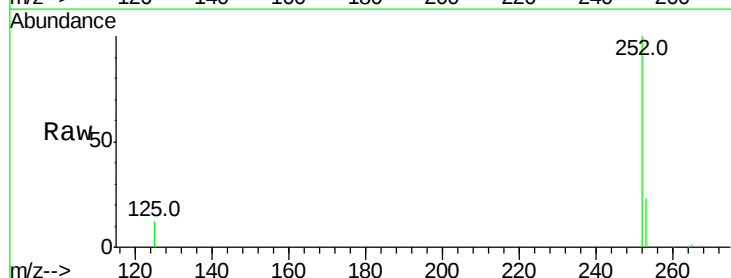
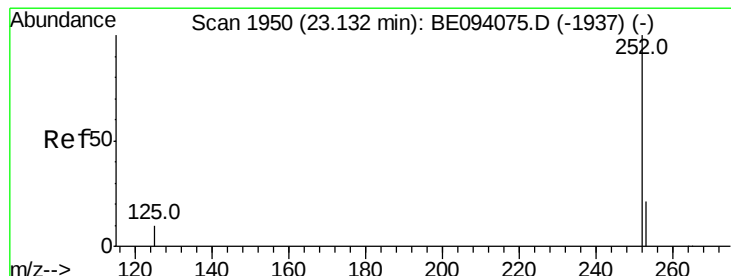
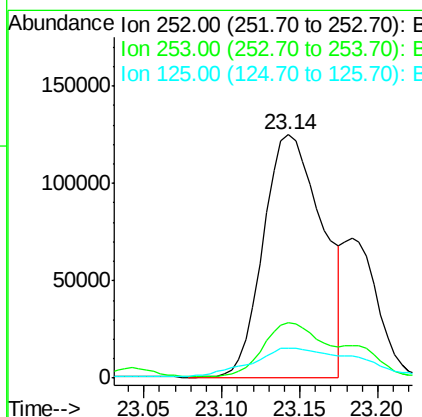
Manual Integrations
APPROVED

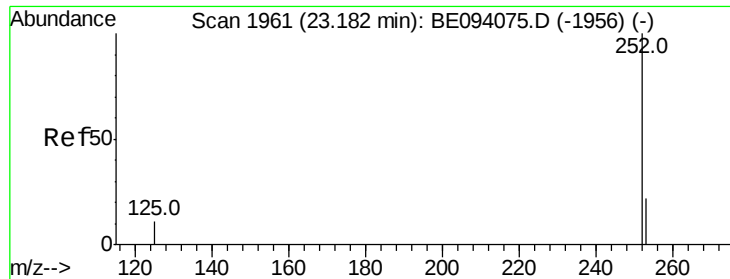
Sohil
9/25/2017 6:24:45 PM



#35
Benzo(b)fluoranthene
Concen: 6.009 ng
RT: 23.14 min Scan# 1952
Delta R.T. 0.01 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.9	18.2	27.2	
125	12.3	10.1	15.1	





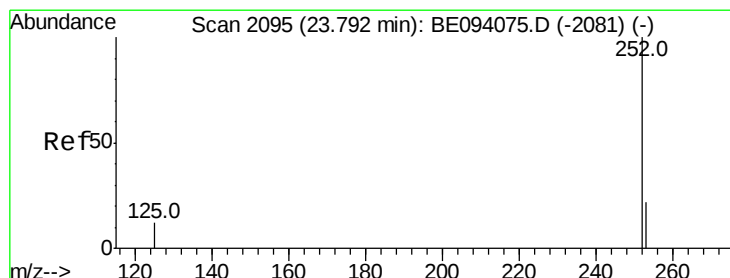
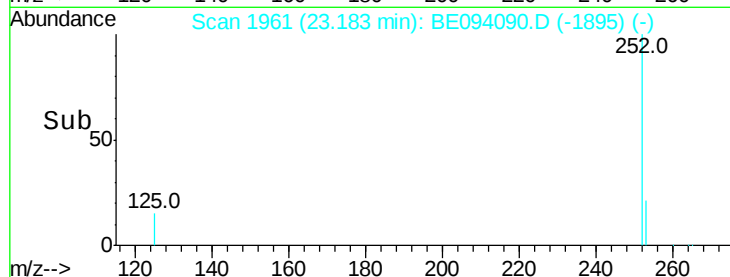
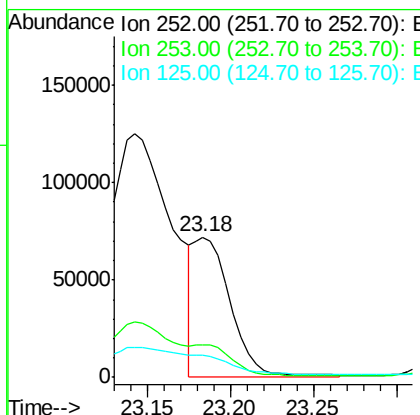
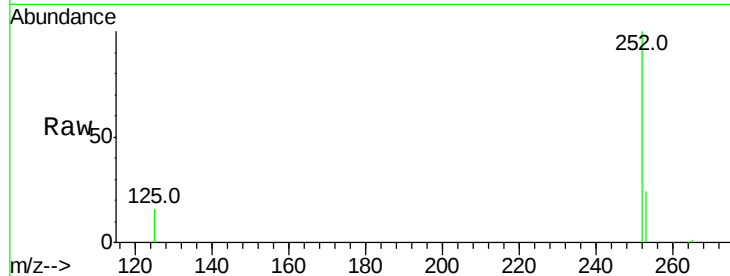
#36
Benzo(k)fluoranthene
Concen: 2.015 ng/mL
RT: 23.18 min Scan# 1961
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Instrument :
BNA_E
ClientSampleId :
LT-TS-007

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.6	27.8
125	16.0	10.7	16.1

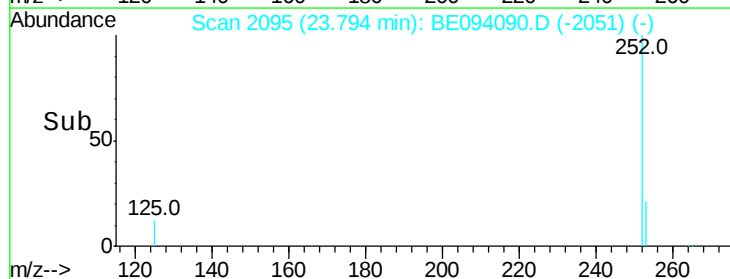
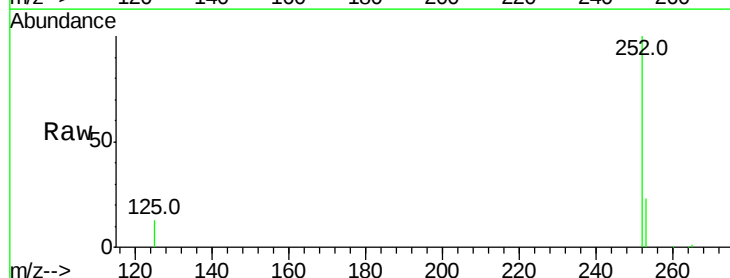
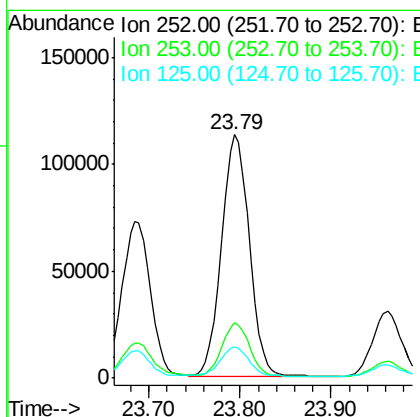
Manual Integrations
APPROVED

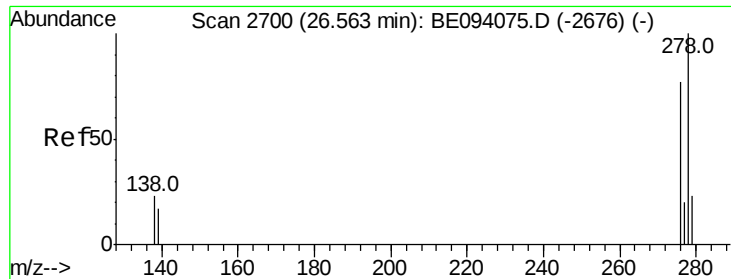
Sohil
9/25/2017 6:24:45 PM



#37
Benzo(a)pyrene
Concen: 4.891 ng/mL
RT: 23.79 min Scan# 2095
Delta R.T. 0.00 min
Lab File: BE094090.D
Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	19.0	28.6
125	13.0	11.8	17.8





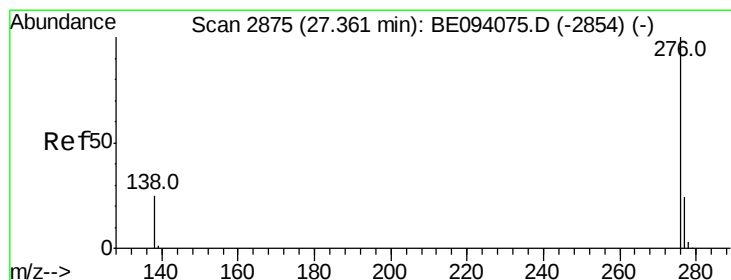
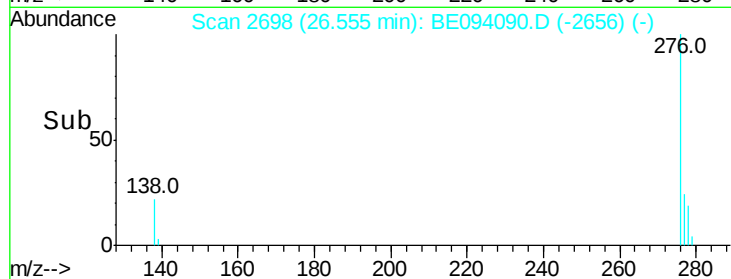
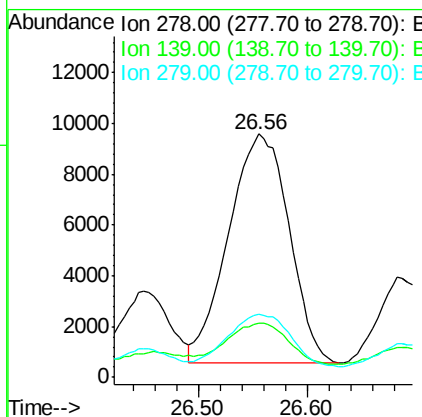
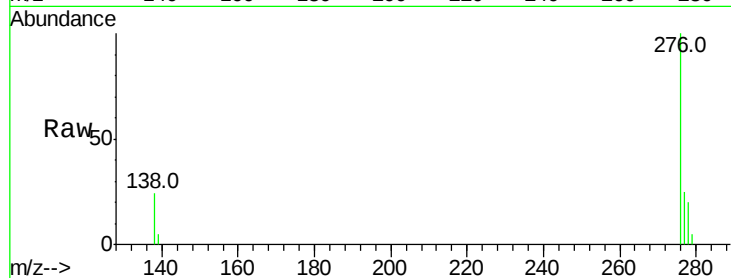
#38
 Dibenzo(a,h)anthracene
 Concen: 0.889 ng
 RT: 26.56 min Scan# 2698
 Delta R.T. -0.01 min
 Lab File: BE094090.D
 Acq: 23 Sep 2017 22:34

Instrument :
 BNA_E
 ClientSampleId :
 LT-TS-007

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.4	16.3	24.5
279	26.1	19.9	29.9

Manual Integrations
 APPROVED

Sohil
 9/25/2017 6:24:45 PM



#39
 Benzo(g,h,i)perylene
 Concen: 4.083 ng
 RT: 27.37 min Scan# 2877
 Delta R.T. 0.01 min
 Lab File: BE094090.D
 Acq: 23 Sep 2017 22:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	20.8	31.2
138	25.3	21.5	32.3

