

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE072017\
 Data File : BE093499.D
 Acq On : 20 Jul 2017 13:41
 Operator : SJ/JU
 Sample : I4199-15
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 3578-CC7

Manual Integrations
 APPROVED

Sohil
 7/21/2017 5:10:45 PM

Quant Time: Jul 20 18:21:39 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE070217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 03 06:40:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.94	152	3293	0.40	ng	0.00
7) Naphthalene-d8	10.72	136	17929	0.40	ng	0.00
13) Acenaphthene-d10	14.54	164	12426	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	33446	0.40	ng	0.00
27) Chrysene-d12	21.43	240	36901	0.40	ng	0.00
34) Perylene-d12	23.94	264	31676	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.53	112	2428	0.24	ng	0.00
5) Phenol-d6	7.11	99	2441	0.17	ng	0.01
8) Nitrobenzene-d5	9.08	82	5444	0.48	ng	0.00
11) 2-Methylnaphthalene-d10	12.31	152	10386	0.36	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	2083	0.53	ng	0.00
15) 2-Fluorobiphenyl	13.18	172	33889	0.70	ng	0.00
25) Fluoranthene-d10	19.29	212	135603	0.34	ng	0.00
29) Terphenyl-d14	19.87	244	32641	0.50	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.77	128	2951991	15.718	ng	# 73
12) 2-Methylnaphthalene	12.38	142	714143	22.639	ng	97
16) Acenaphthylene	14.26	152	741576	14.327	ng	# 87
17) Acenaphthene	14.60	154	356317	9.398	ng	99
18) Fluorene	15.59	166	1395632	26.821	ng	# 88
23) Phenanthrene	17.30	178	5339007	43.918	ng	96
24) Anthracene	17.40	178	637496m	8.553	ng	
26) Fluoranthene	19.32	202	2760648	24.157	ng	99
28) Pyrene	19.67	202	1048750	10.110	ng	# 94
30) Benzo(a)anthracene	21.40	228	189658	1.904	ng	93
31) Chrysene	21.46	228	493143	4.733	ng	93
33) Indeno(1,2,3-cd)pyrene	26.59	276	231959	2.536	ng	# 89
35) Benzo(b)fluoranthene	23.16	252	270857	2.648	ng	# 93
36) Benzo(k)fluoranthene	23.21	252	182937	1.808	ng	# 92
37) Benzo(a)pyrene	23.82	252	96527	1.077	ng	# 92
38) Dibenzo(a,h)anthracene	26.61	278	116278	1.336	ng	# 87
39) Benzo(g,h,i)perylene	27.40	276	80167	0.912	ng	# 90

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

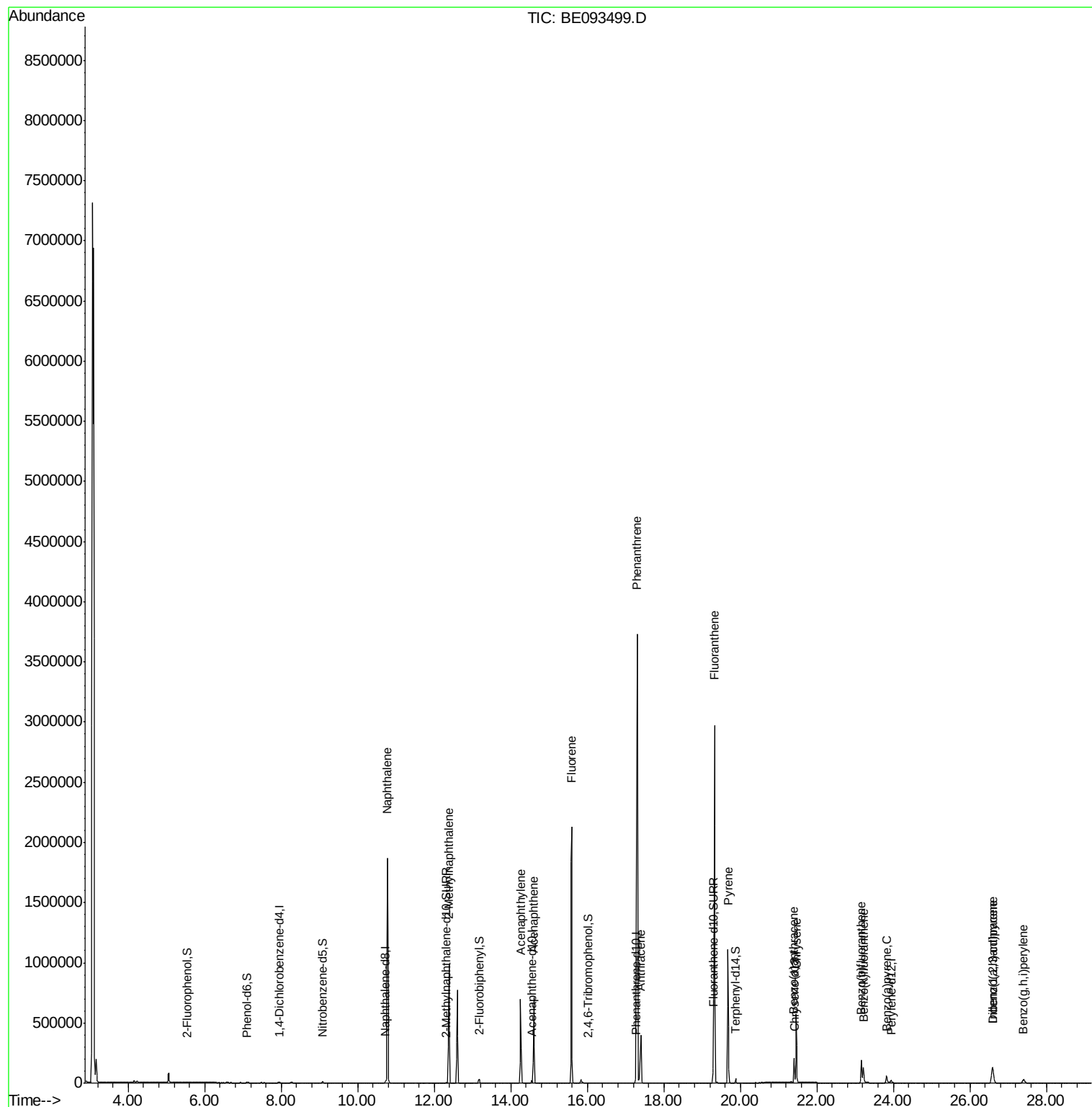
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE072017\
Data File : BE093499.D
Acq On : 20 Jul 2017 13:41
Operator : SJ/JU
Sample : I4199-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

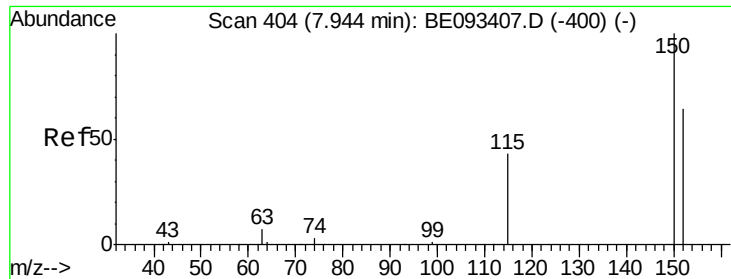
Instrument :
BNA_E
ClientSampleId :
3578-CC7

Manual Integrations
APPROVED

Sohil
7/21/2017 5:10:45 PM

Quant Time: Jul 20 18:21:39 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE070217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 03 06:40:23 2017
Response via : Initial Calibration





#1

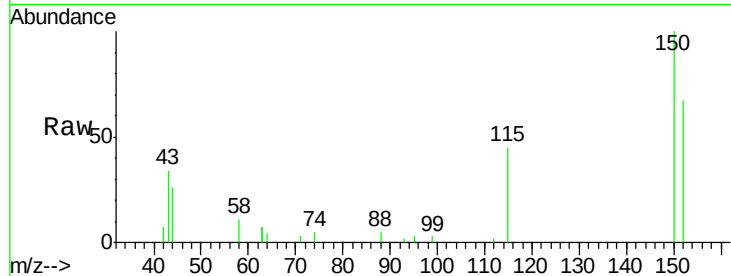
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.94 min Scan# 404
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampleId :
3578-CC7

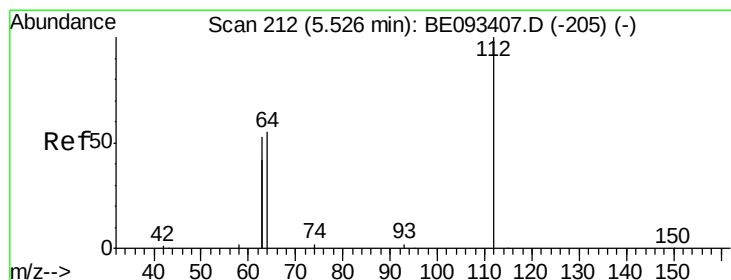
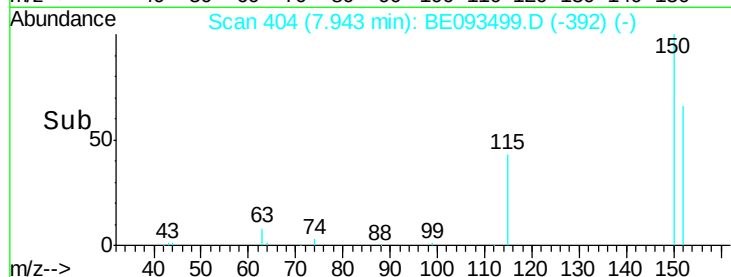
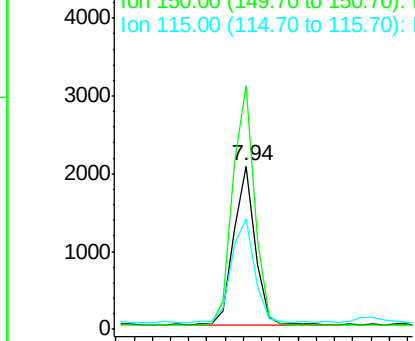
Tgt Ion	Ratio	Lower	Upper
152	100		
150	149.1	125.1	187.7
115	67.7	55.7	83.5

Manual Integrations
APPROVED

Sohil
7/21/2017 5:10:45 PM



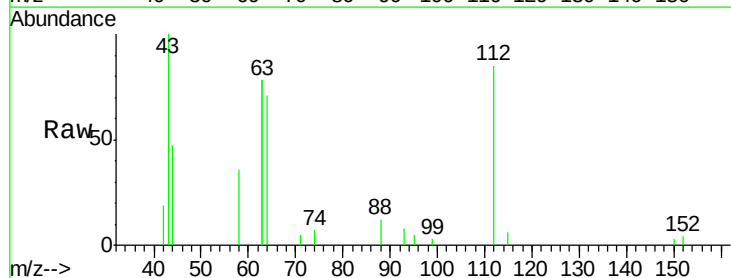
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



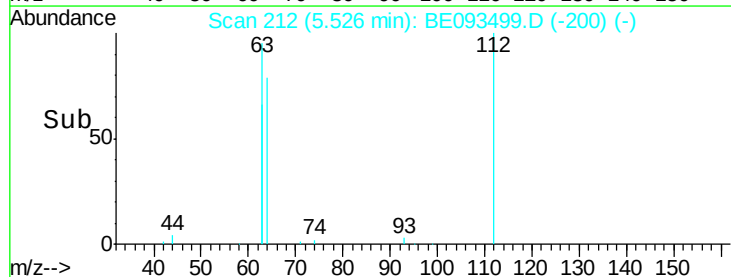
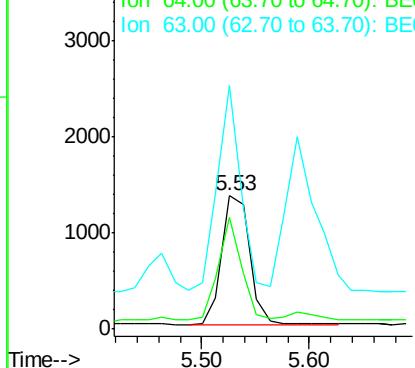
#4

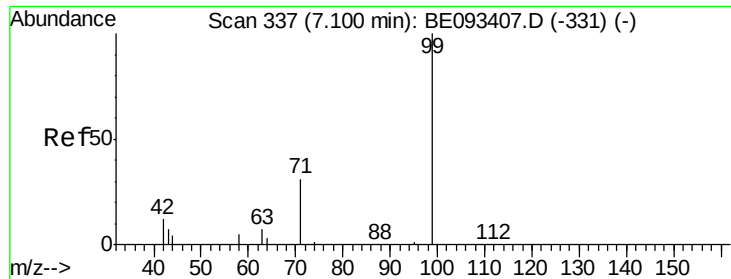
2-Fluorophenol
Concen: 0.244 ng
RT: 5.53 min Scan# 212
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.4	56.4	84.6
63	129.7	29.3	43.9#



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: 0.167 ng

RT: 7.11 min Scan# 338

Delta R.T. 0.01 min

Lab File: BE093499.D

Acq: 20 Jul 2017 13:41

Instrument :

BNA_E

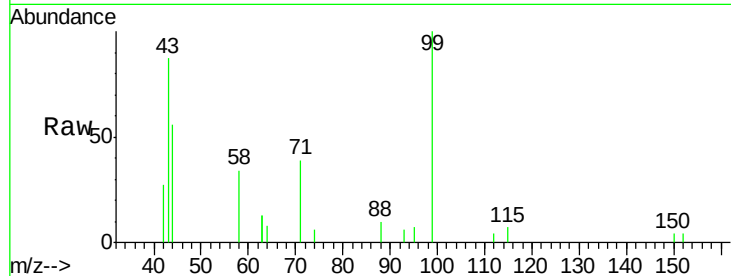
ClientSampleId :

3578-CC7

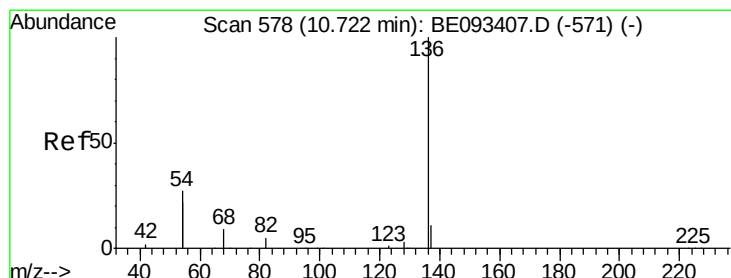
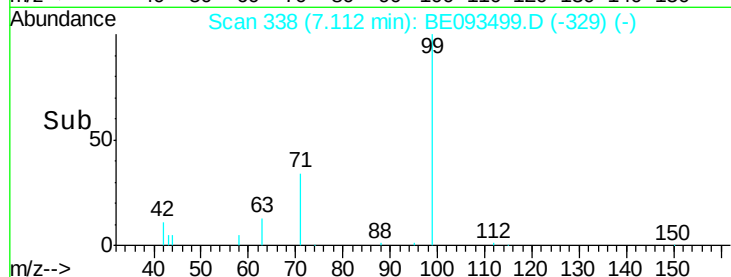
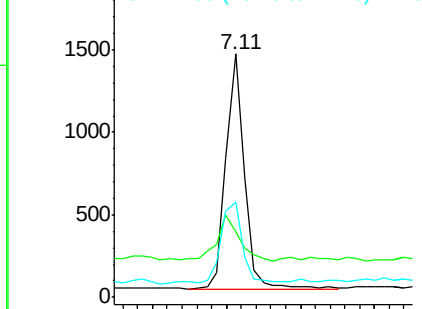
Tgt Ion:	99	Resp:	2441
Ion Ratio	Lower	Upper	
99	100		
42	23.8	0.0	0.0#
71	39.1	0.0	0.0#

Manual Integrations
APPROVED

Sohil
7/21/2017 5:10:45 PM



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

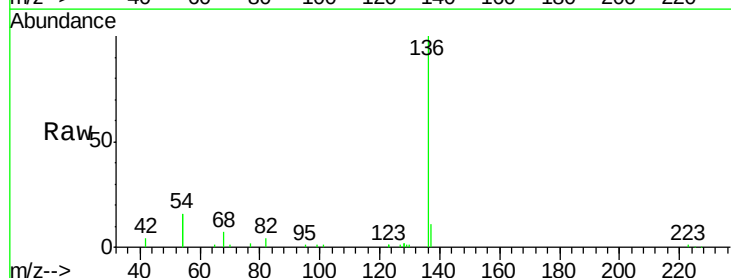
RT: 10.72 min Scan# 578

Delta R.T. 0.00 min

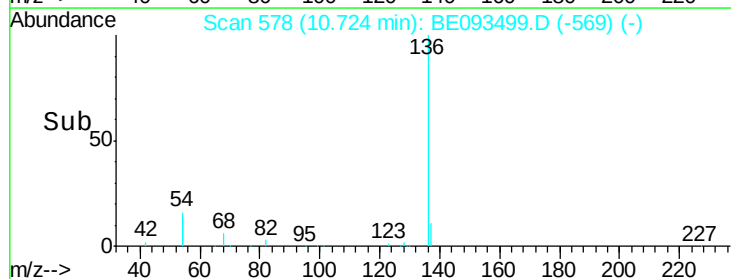
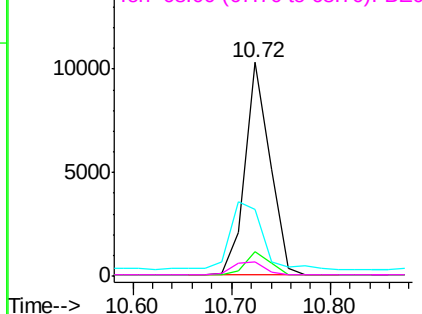
Lab File: BE093499.D

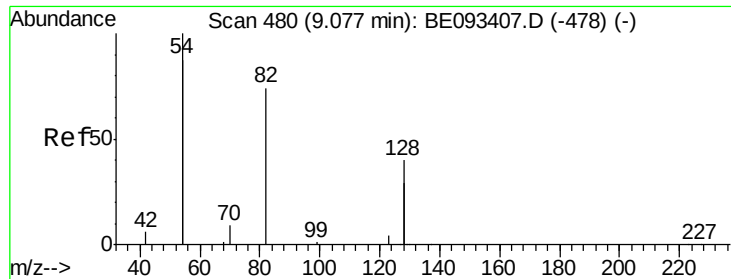
Acq: 20 Jul 2017 13:41

Tgt Ion:	136	Resp:	17929
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.8	14.8
54	31.0	10.3	15.5#
68	6.5	9.0	13.4#



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.475 ng

RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093499.D

Acq: 20 Jul 2017 13:41

Instrument :

BNA_E

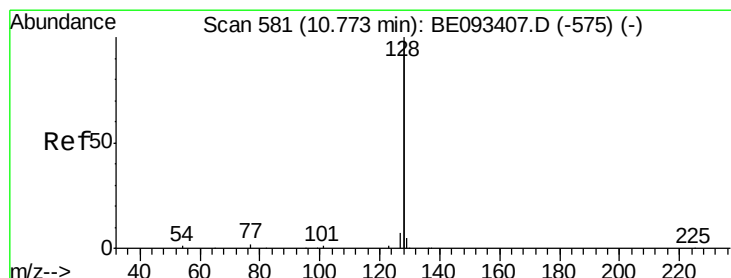
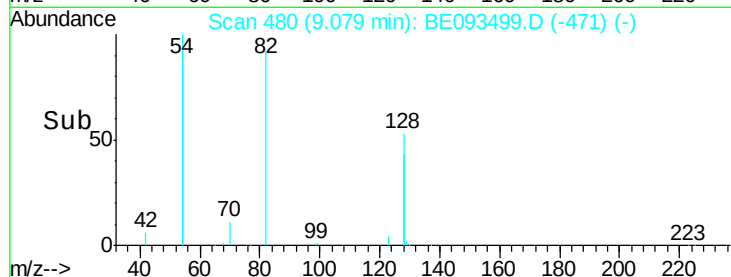
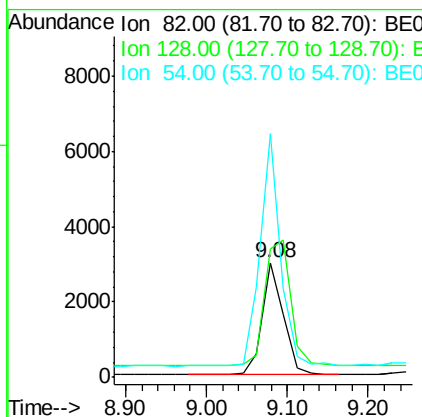
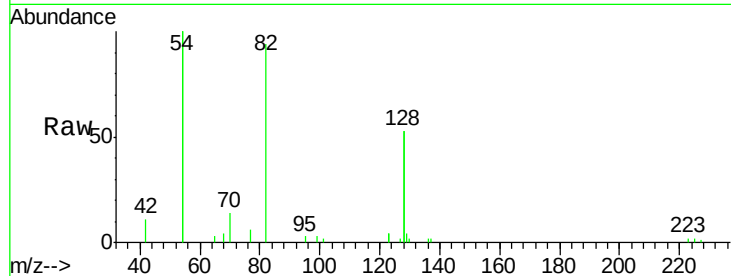
ClientSampled :

3578-CC7

Tgt Ion:	82	Resp:	5444
Ion Ratio	Lower	Upper	
82	100		
128	112.6	17.0	25.4#
54	212.6	53.8	80.6#

Manual Integrations
APPROVED

Sohil
7/21/2017 5:10:45 PM



#9

Naphthalene

Concen: 15.718 ng

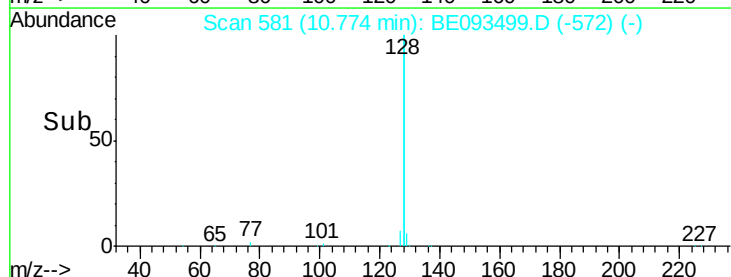
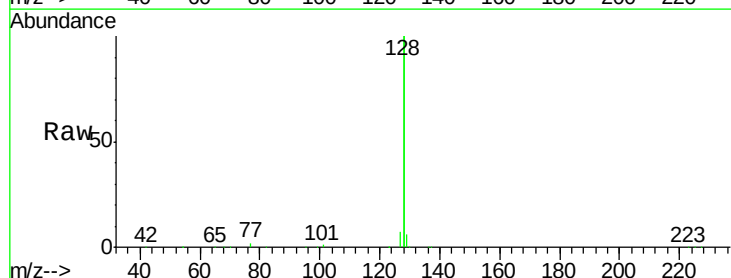
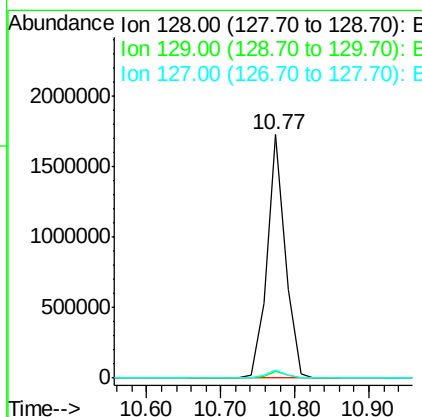
RT: 10.77 min Scan# 581

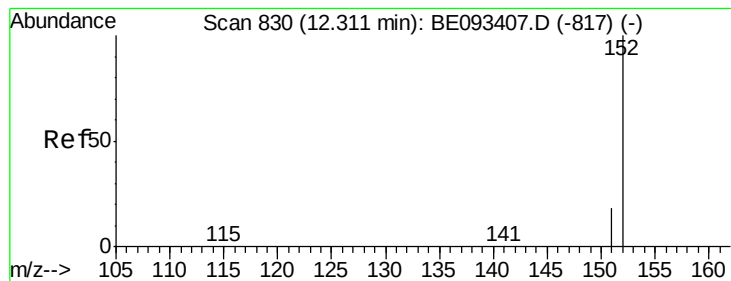
Delta R.T. 0.00 min

Lab File: BE093499.D

Acq: 20 Jul 2017 13:41

Tgt Ion:	128	Resp:	2951991
Ion Ratio	Lower	Upper	
128	100		
129	2.8	11.4	17.0#
127	3.3	11.2	16.8#





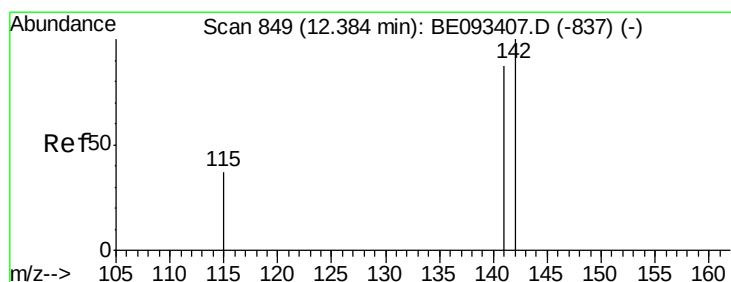
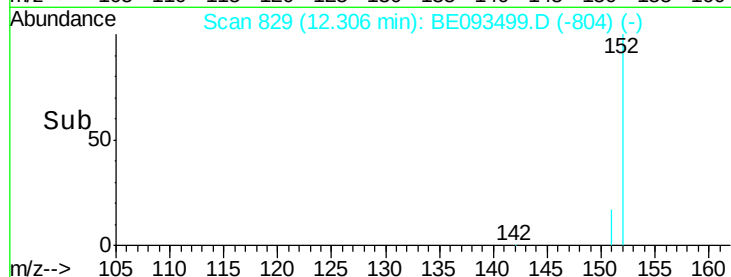
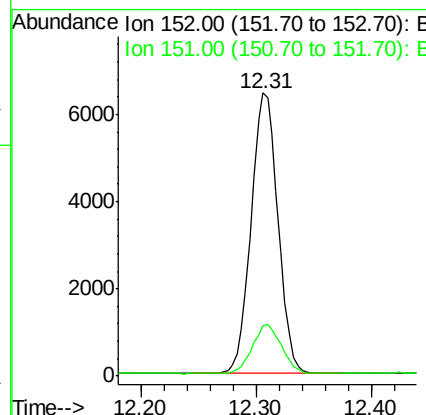
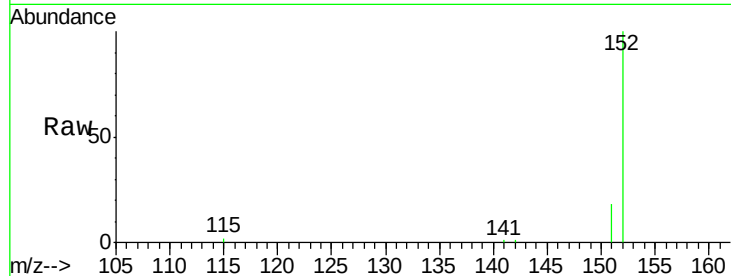
#11
 2-Methylnaphthalene-d10
 Concen: 0.363 ng
 RT: 12.31 min Scan# 829
 Delta R.T. -0.01 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Instrument :
 BNA_E
 ClientSampleId :
 3578-CC7

Tgt Ion:152 Resp: 10386
 Ion Ratio Lower Upper
 152 100
 151 19.1 15.1 22.7

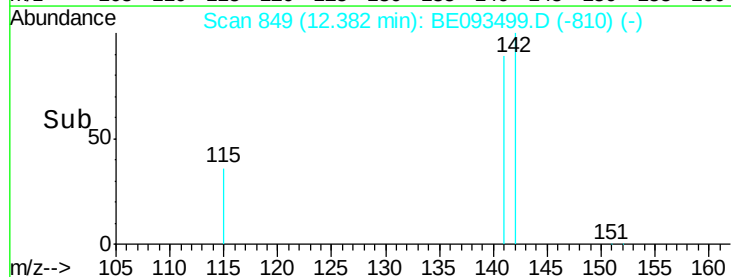
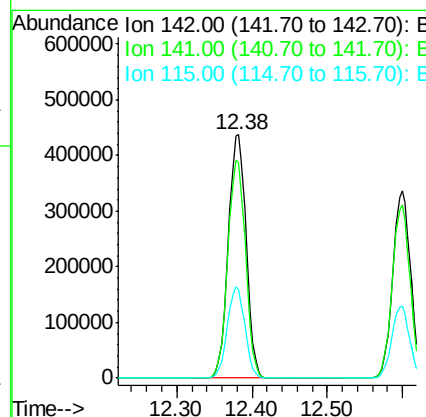
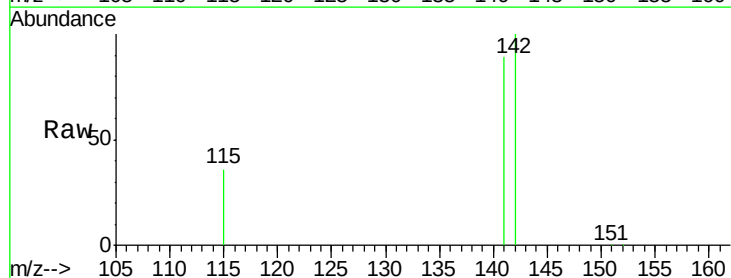
Manual Integrations
 APPROVED

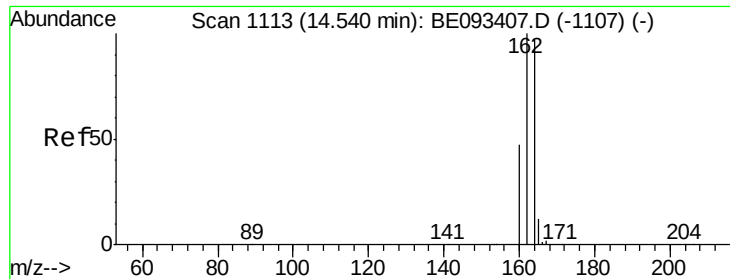
Sohil
 7/21/2017 5:10:45 PM



#12
 2-Methylnaphthalene
 Concen: 22.639 ng
 RT: 12.38 min Scan# 849
 Delta R.T. -0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Tgt Ion:142 Resp: 714143
 Ion Ratio Lower Upper
 142 100
 141 88.7 72.6 108.8
 115 36.3 32.2 48.2





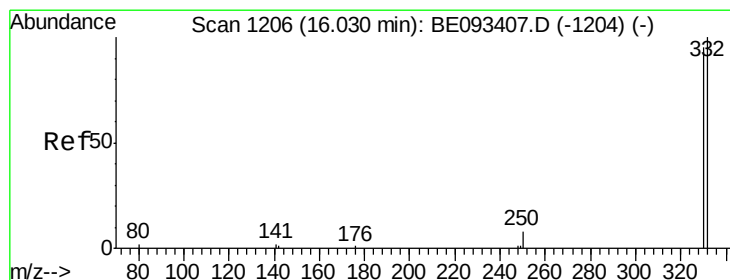
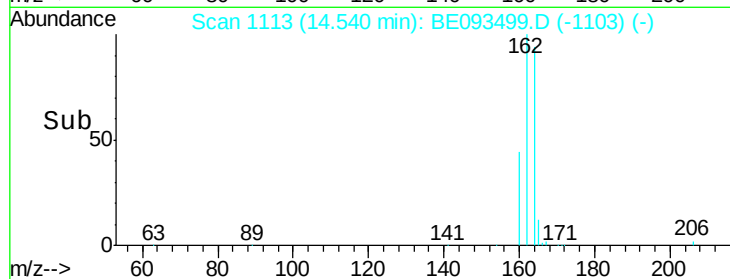
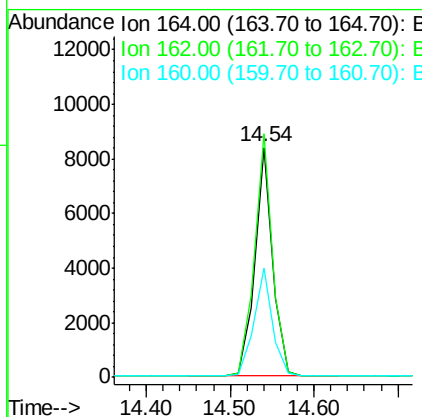
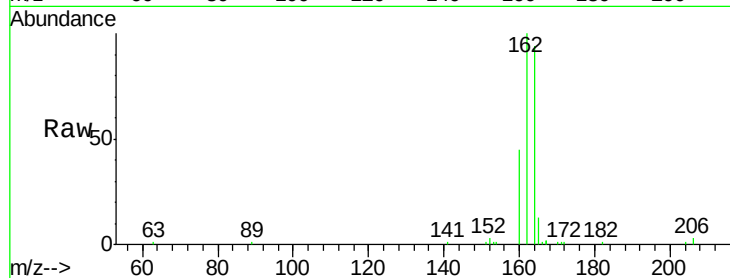
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.54 min Scan# 1113
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampleId :
3578-CC7

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	106.0	84.6	127.0	
160	47.4	41.8	62.6	

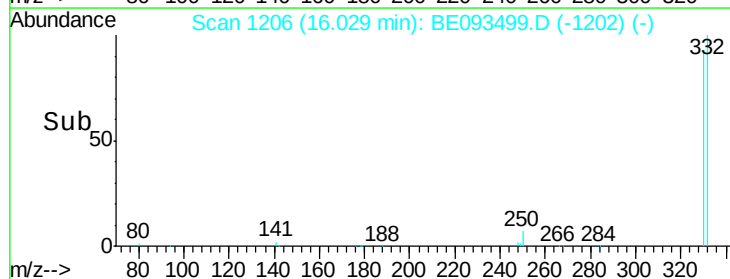
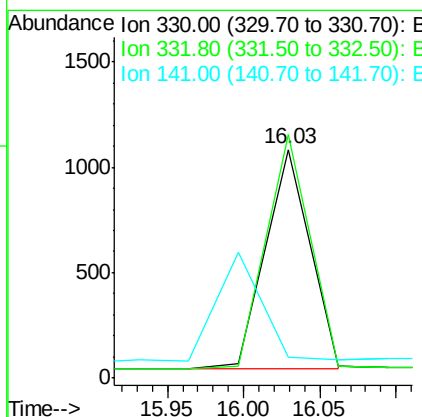
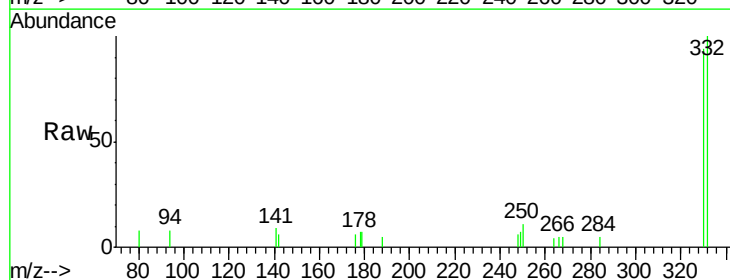
Manual Integrations
APPROVED

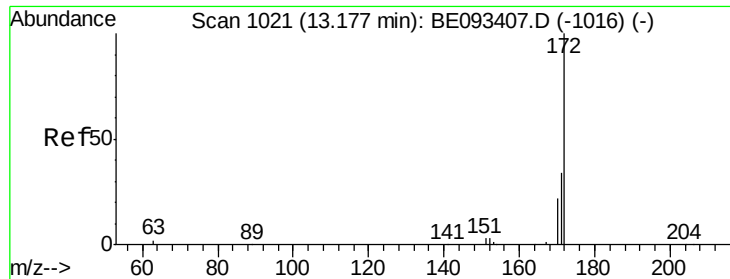
Sohil
7/21/2017 5:10:45 PM



#14
2,4,6-Tribromophenol
Concen: 0.533 ng
RT: 16.03 min Scan# 1206
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	106.2	77.7	116.5	
141	0.0	56.2	84.4#	





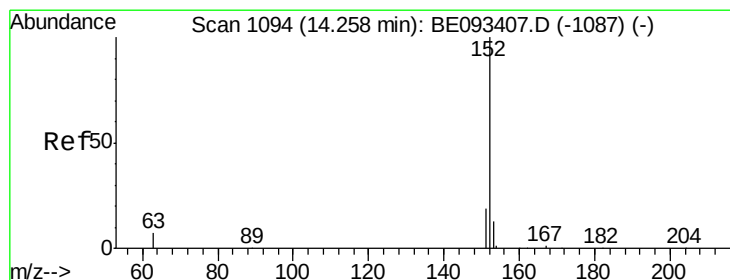
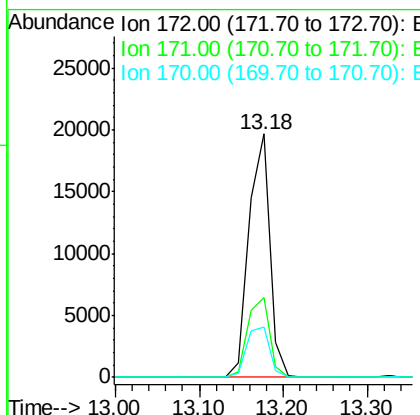
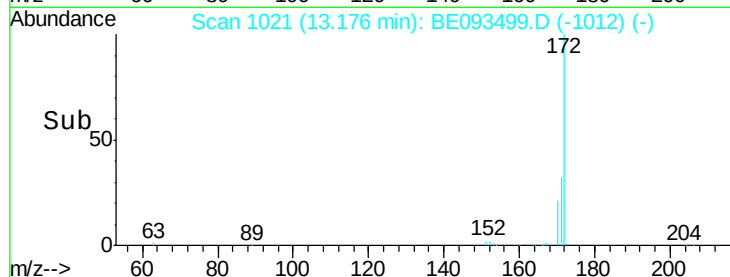
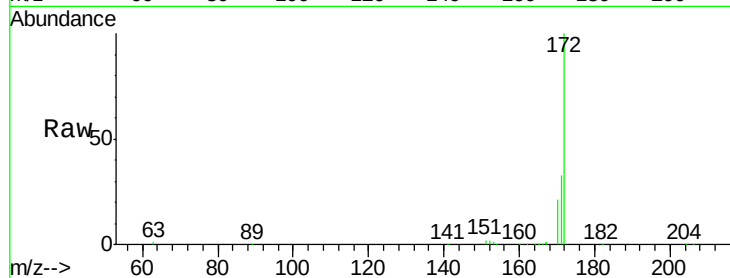
#15
2-Fluorobiphenyl
Concen: 0.703 ng
RT: 13.18 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampled :
3578-CC7

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.5	29.8	44.6
170	20.9	20.7	31.1

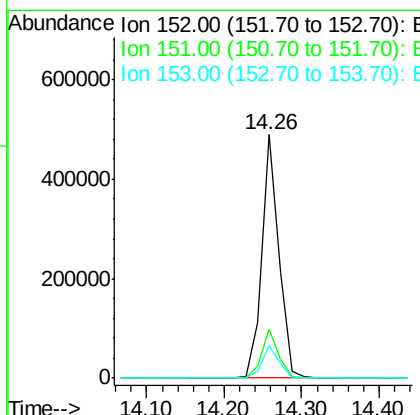
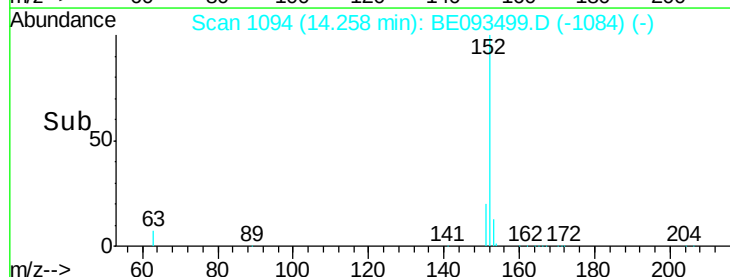
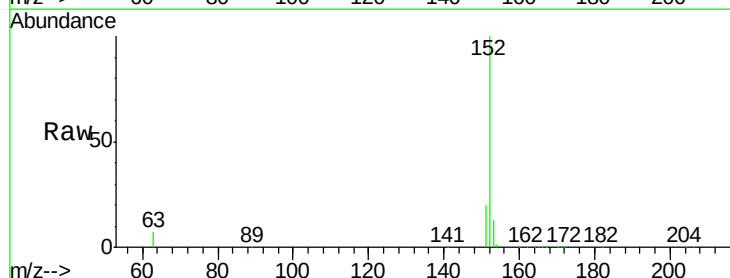
Manual Integrations
APPROVED

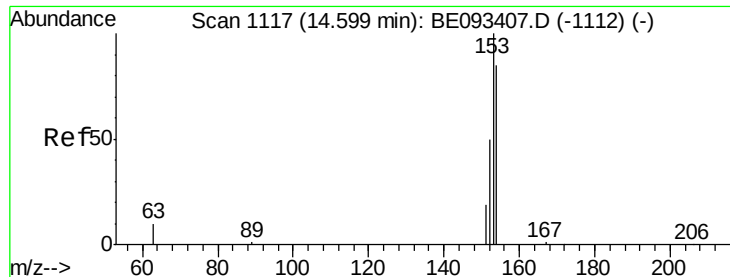
Sohil
7/21/2017 5:10:45 PM



#16
Acenaphthylene
Concen: 14.327 ng
RT: 14.26 min Scan# 1094
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	4.0	6.0#
153	13.3	10.3	15.5





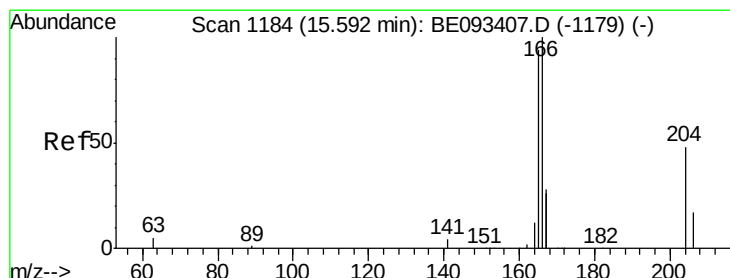
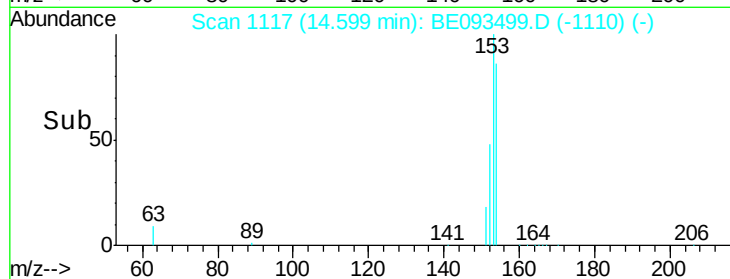
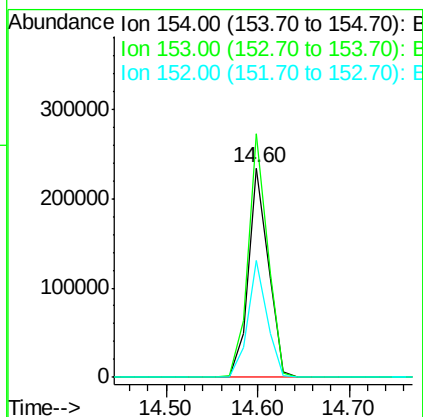
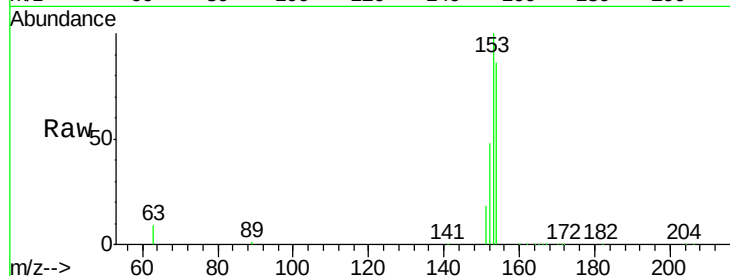
#17
Acenaphthene
Concen: 9.398 ng
RT: 14.60 min Scan# 1117
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampled :
3578-CC7

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	356317		
153	114.2	91.2	136.8	
152	54.2	44.8	67.2	

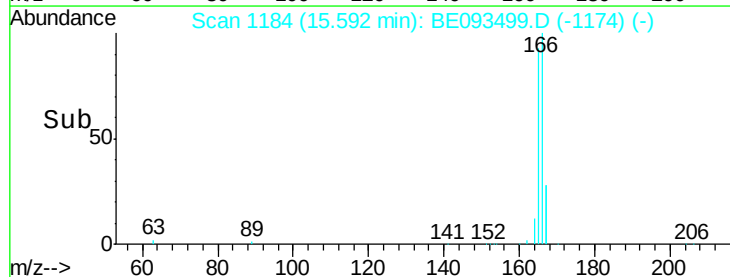
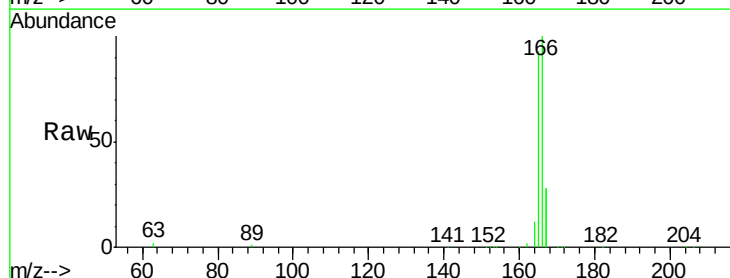
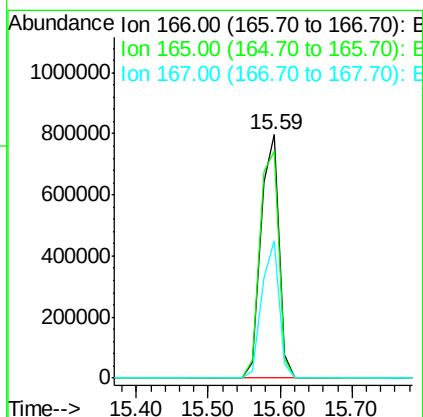
Manual Integrations
APPROVED

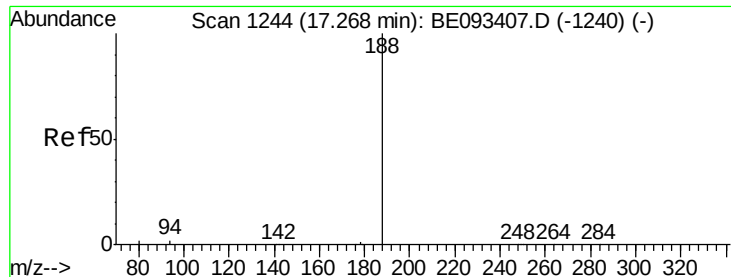
Sohil
7/21/2017 5:10:45 PM



#18
Fluorene
Concen: 26.821 ng
RT: 15.59 min Scan# 1184
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	1395632		
165	98.3	78.6	117.8	
167	54.4	11.1	16.7#	





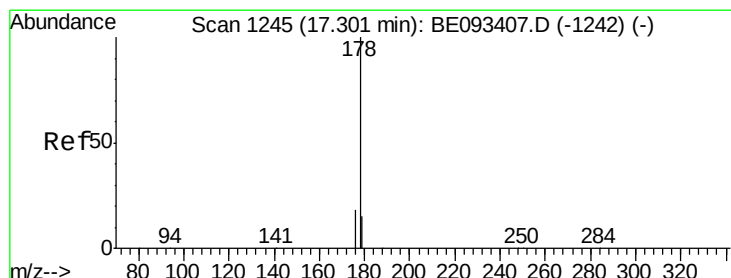
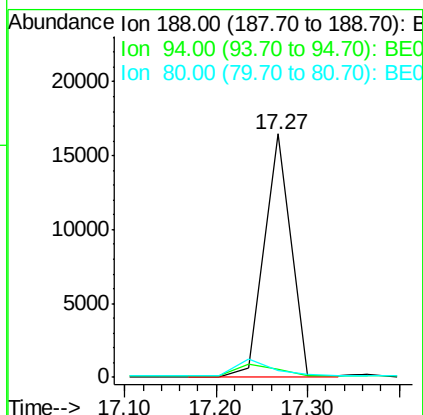
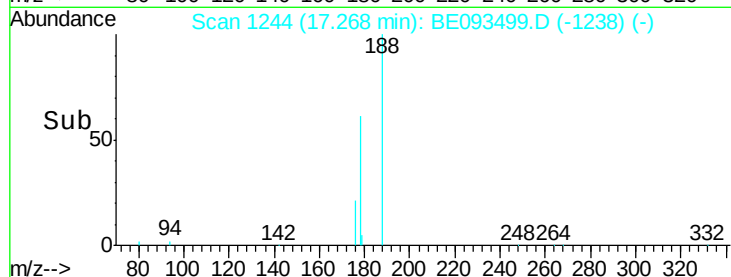
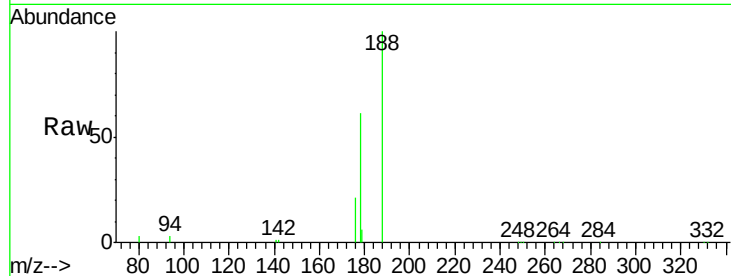
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.27 min Scan# 1244
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampleId :
3578-CC7

Tgt Ion:	188	Resp:	33446
Ion Ratio	Lower	Upper	
188	100		
94	3.2	11.3	16.9#
80	2.7	11.7	17.5#

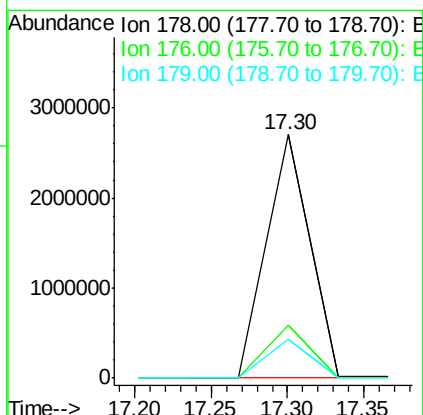
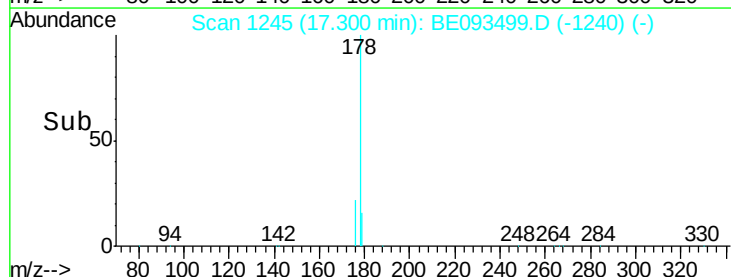
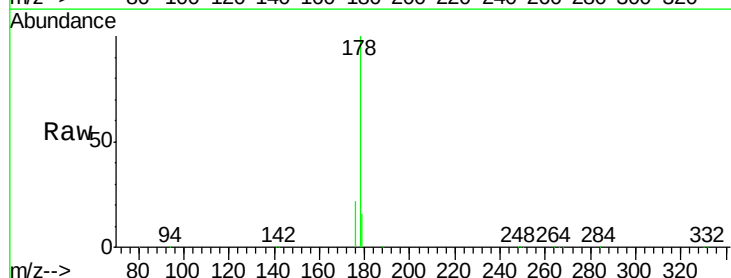
Manual Integrations
APPROVED

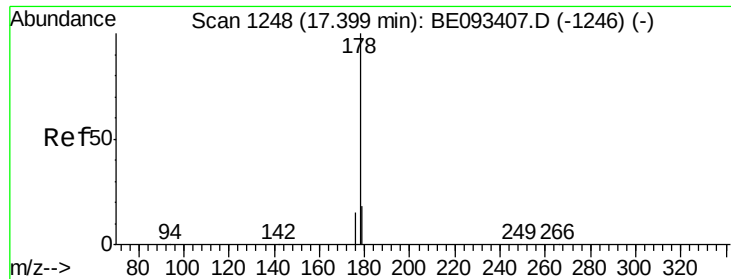
Sohil
7/21/2017 5:10:45 PM



#23
Phenanthrene
Concen: 43.918 ng
RT: 17.30 min Scan# 1245
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion:	178	Resp:	5339007
Ion Ratio	Lower	Upper	
178	100		
176	21.8	15.0	22.4
179	16.2	12.7	19.1





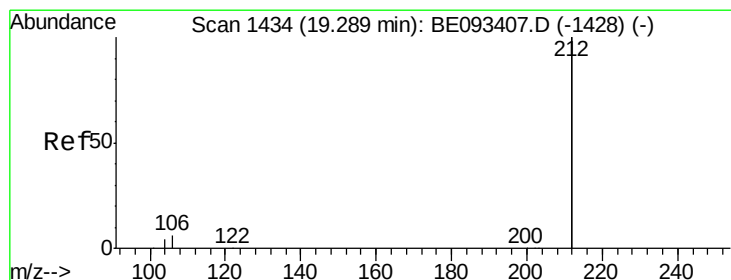
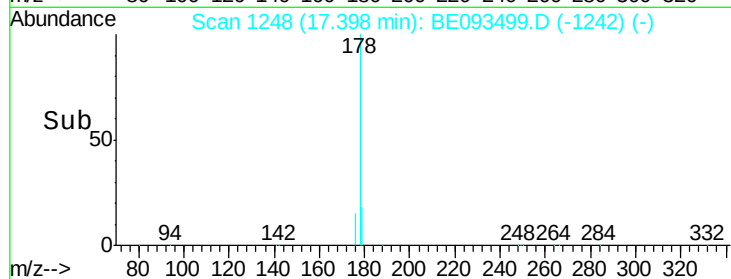
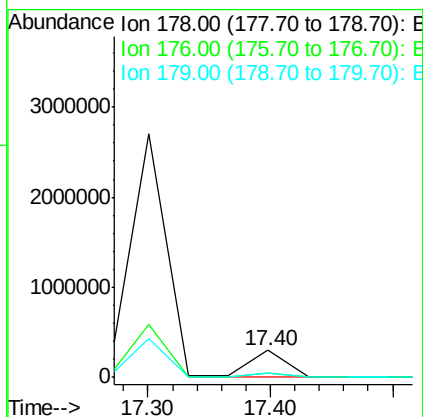
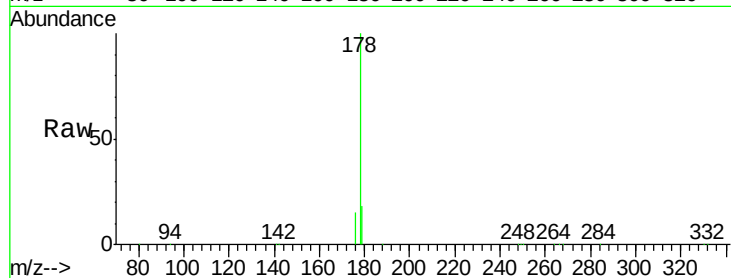
#24
 Anthracene
 Concen: 8.553 ng m
 RT: 17.40 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Instrument :
 BNA_E
 ClientSampleId :
 3578-CC7

Tgt Ion	Ratio	Lower	Upper
178	100		
176	181.1	14.6	22.0#
179	134.3	12.0	18.0#

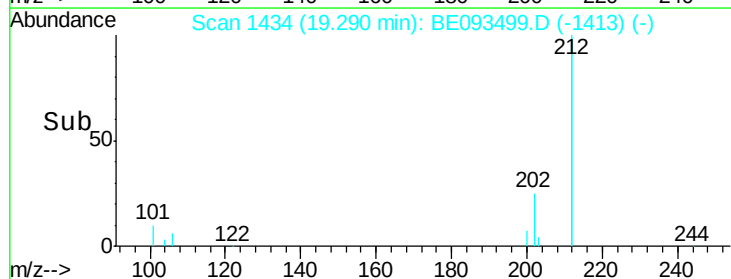
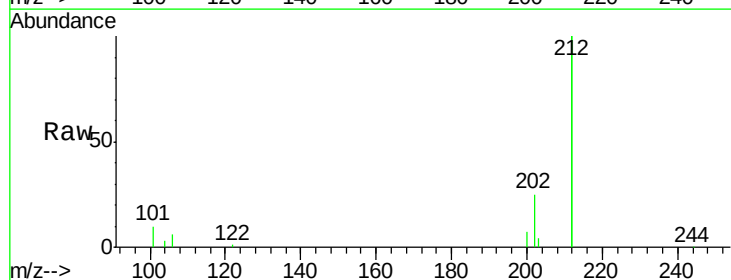
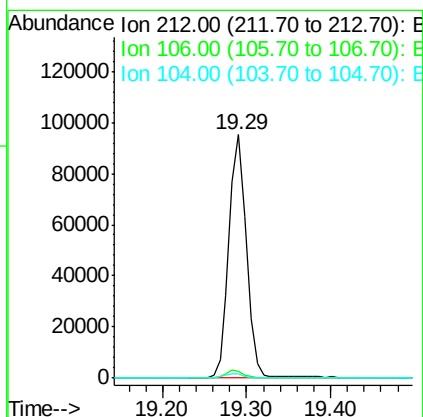
Manual Integrations
 APPROVED

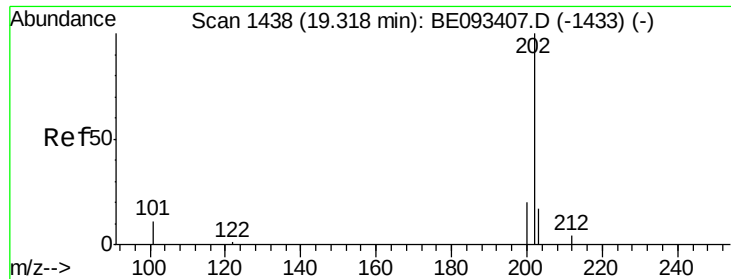
Sohil
 7/21/2017 5:10:45 PM



#25
 Fluoranthene-d10
 Concen: 0.336 ng
 RT: 19.29 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Lower	Upper
212	100		
106	3.3	2.4	3.6
104	1.8	1.6	2.4





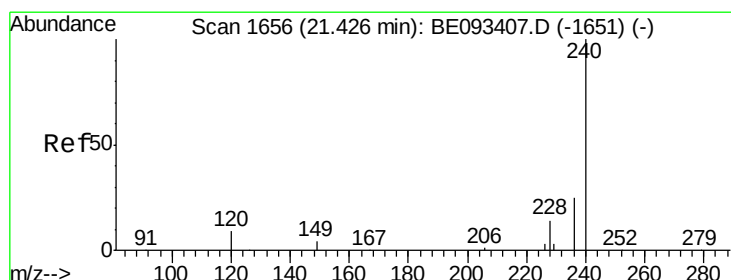
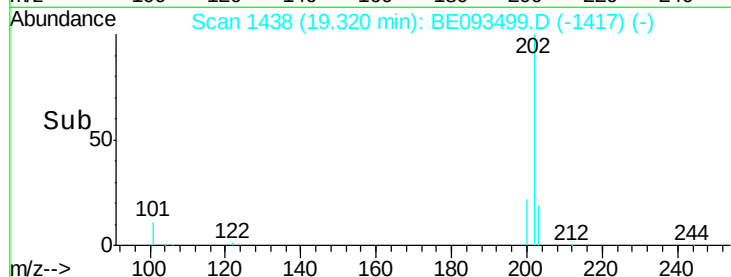
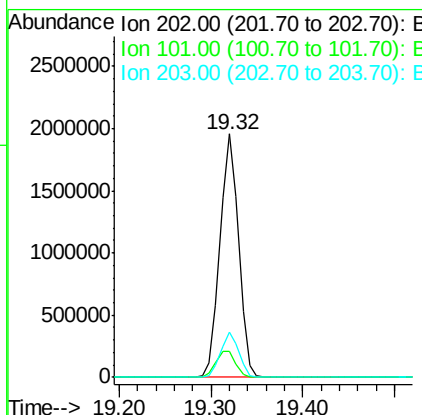
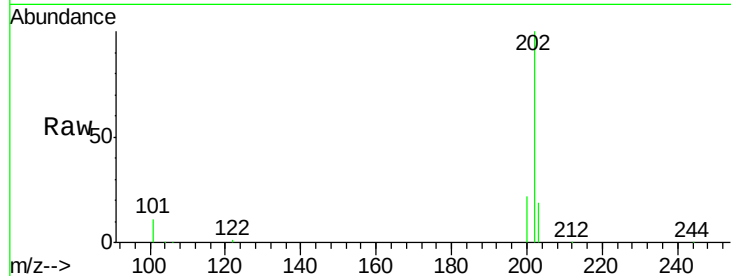
#26
 Fluoranthene
 Concen: 24.157 ng
 RT: 19.32 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Instrument :
 BNA_E
 ClientSampled :
 3578-CC7

Tgt Ion: 202 Resp: 2760648
 Ion Ratio Lower Upper
 202 100
 101 11.4 9.6 14.4
 203 18.2 14.4 21.6

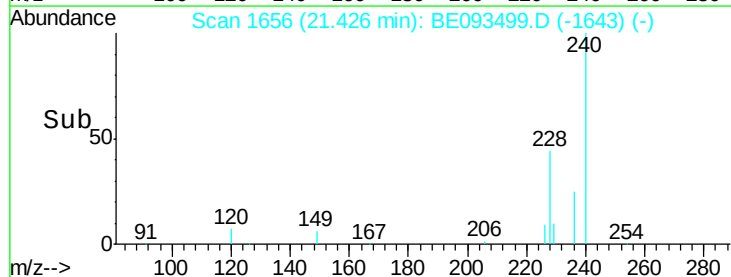
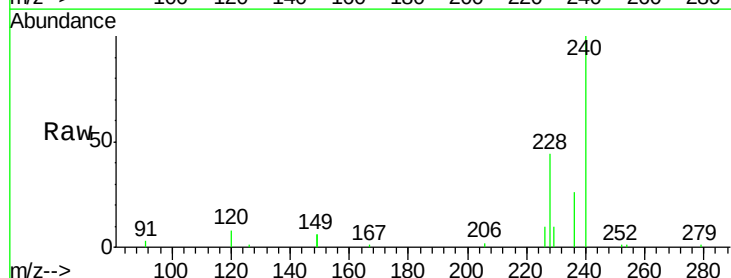
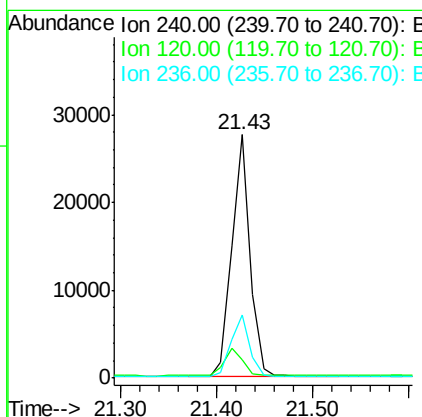
Manual Integrations
 APPROVED

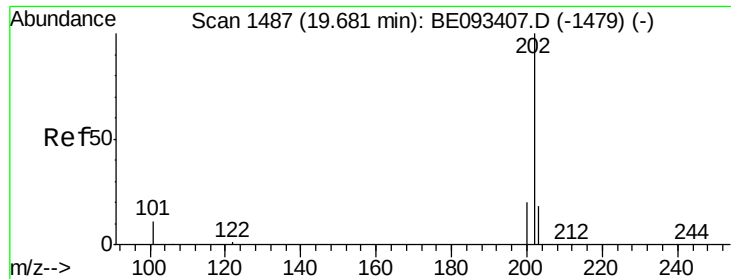
Sohil
 7/21/2017 5:10:45 PM



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.43 min Scan# 1656
 Delta R.T. -0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Tgt Ion: 240 Resp: 36901
 Ion Ratio Lower Upper
 240 100
 120 7.5 4.6 7.0#
 236 25.9 20.8 31.2





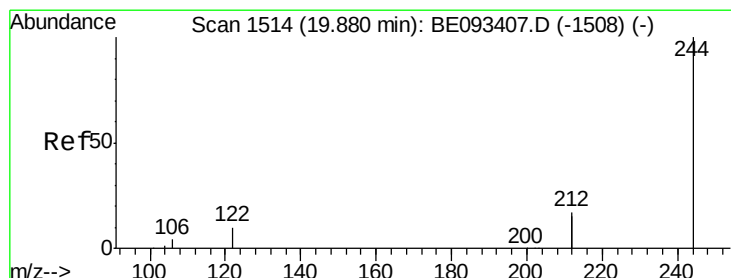
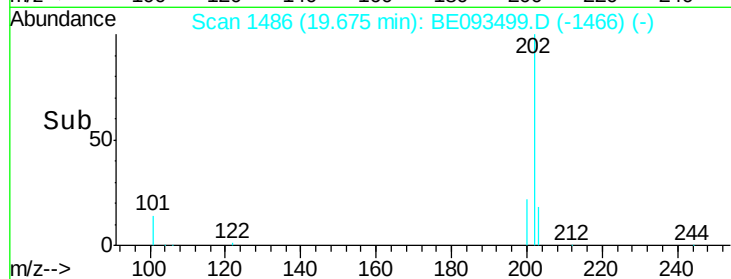
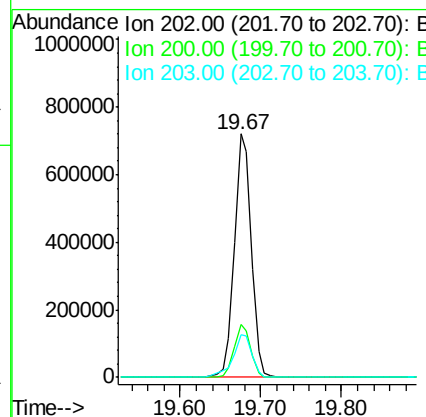
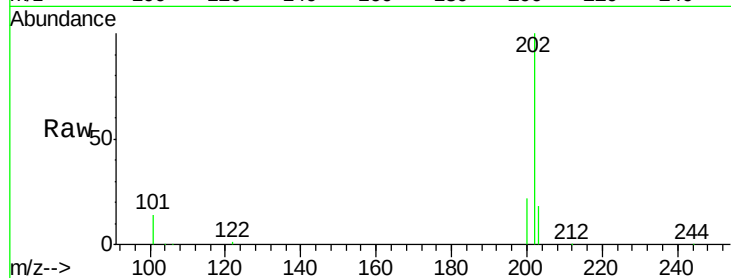
#28
 Pyrene
 Concen: 10.110 ng
 RT: 19.67 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Instrument :
 BNA_E
 ClientSampleId :
 3578-CC7

Tgt Ion: 202 Resp: 1048750
 Ion Ratio Lower Upper
 202 100
 200 21.3 0.0 0.0#
 203 19.6 13.7 20.5

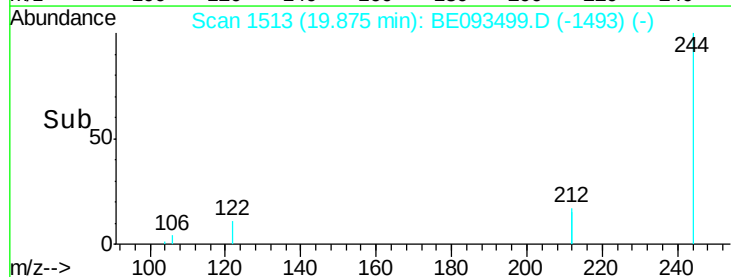
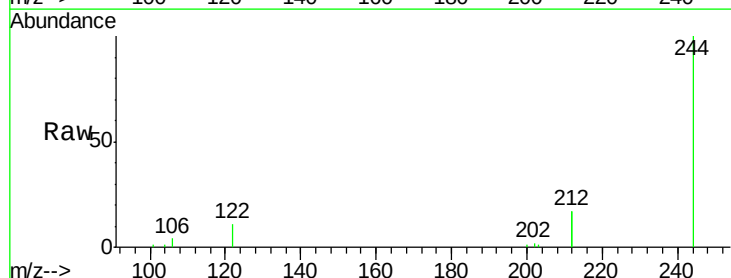
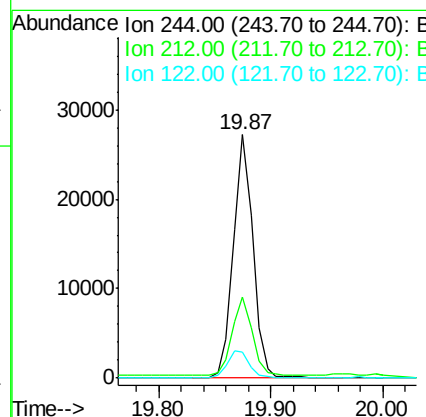
Manual Integrations
 APPROVED

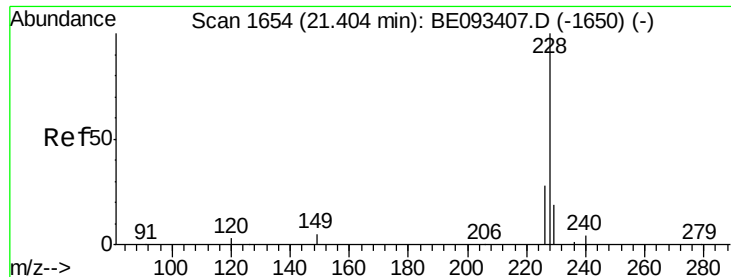
Sohil
 7/21/2017 5:10:45 PM



#29
 Terphenyl-d14
 Concen: 0.495 ng
 RT: 19.87 min Scan# 1513
 Delta R.T. -0.01 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Tgt Ion: 244 Resp: 32641
 Ion Ratio Lower Upper
 244 100
 212 33.4 10.6 16.0#
 122 10.9 15.4 23.0#





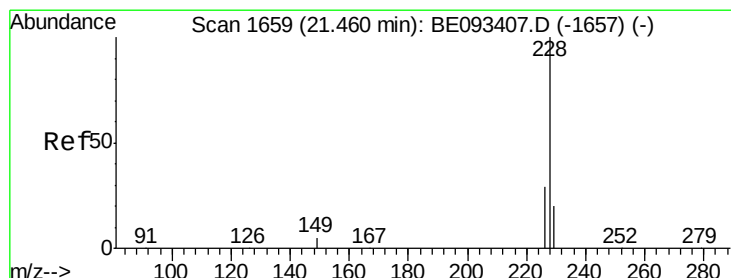
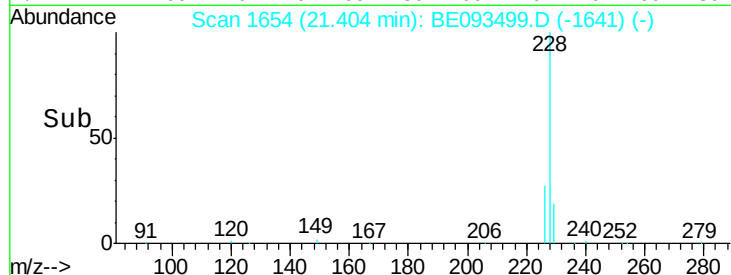
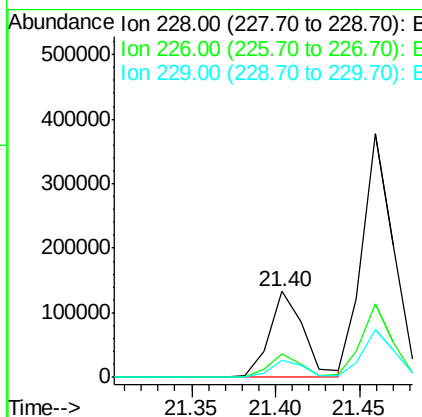
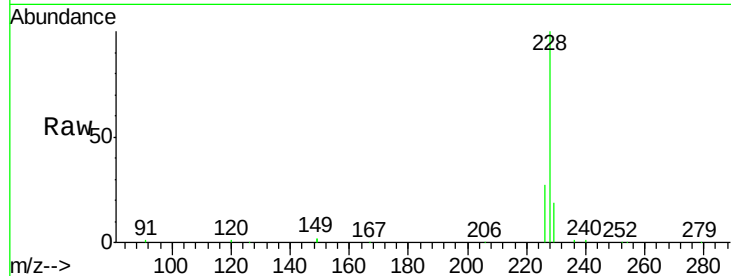
#30
Benzo(a)anthracene
Concen: 1.904 ng
RT: 21.40 min Scan# 1654
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampled :
3578-CC7

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	19.7	29.5
229	19.4	19.2	28.8

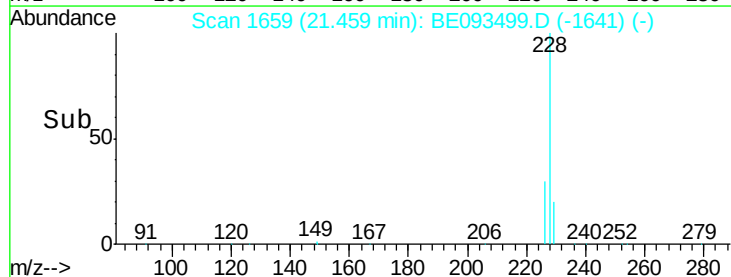
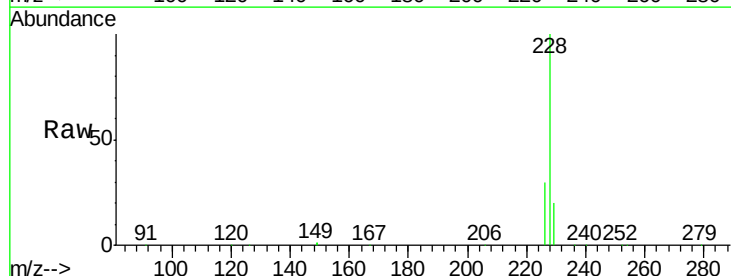
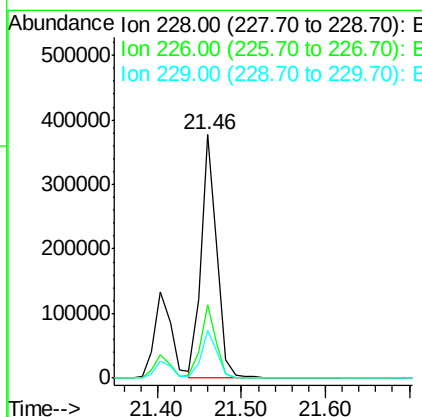
Manual Integrations
APPROVED

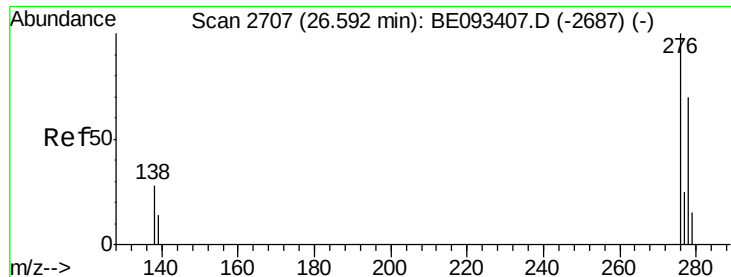
Sohil
7/21/2017 5:10:45 PM



#31
Chrysene
Concen: 4.733 ng
RT: 21.46 min Scan# 1659
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	21.5	32.3
229	19.6	18.6	28.0





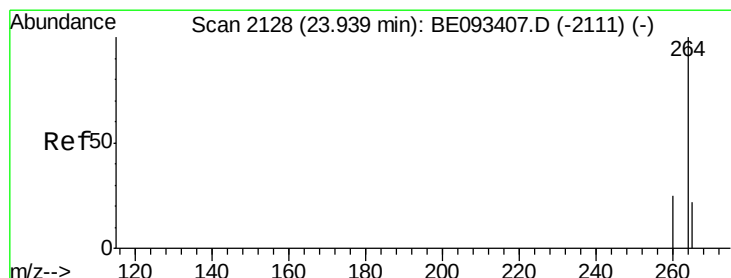
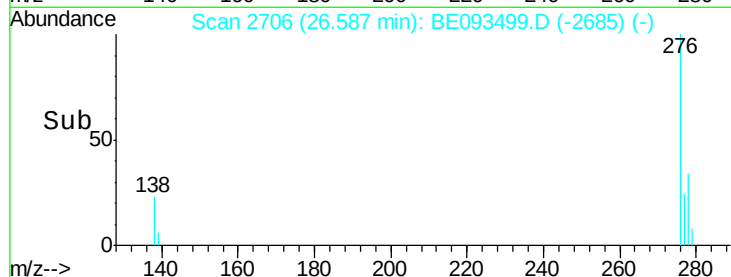
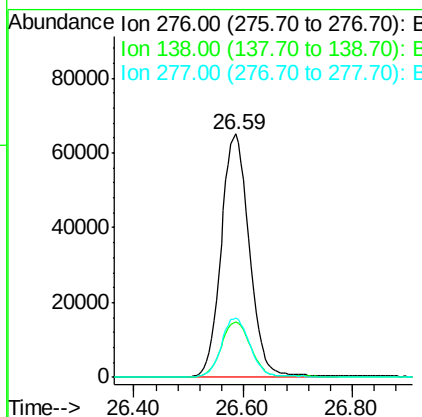
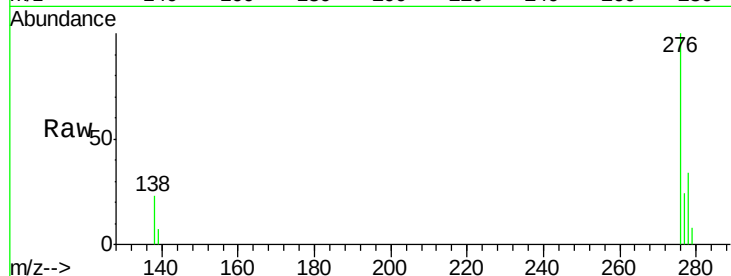
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 2.536 ng
 RT: 26.59 min Scan# 2706
 Delta R.T. -0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Instrument :
 BNA_E
 ClientSampleId :
 3578-CC7

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.7	27.4	41.2#
277	24.5	20.1	30.1

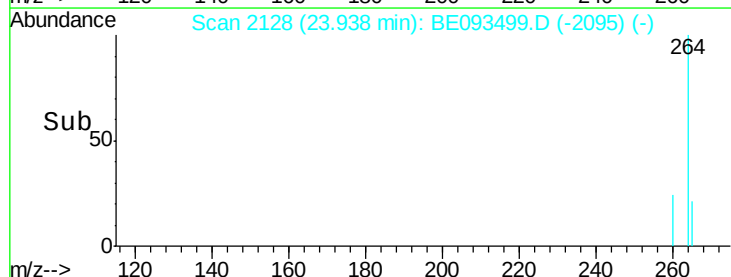
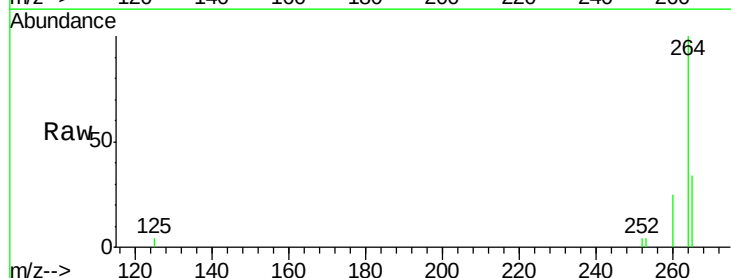
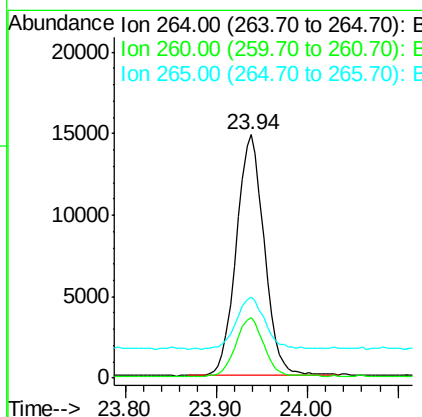
Manual Integrations
 APPROVED

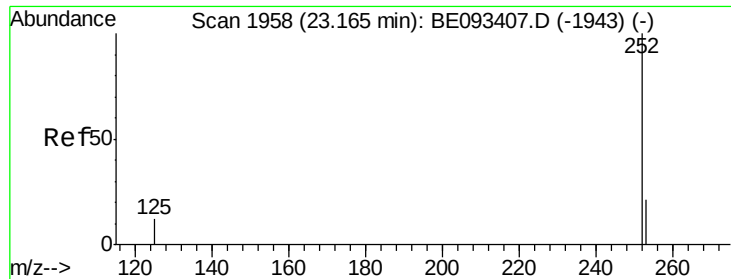
Sohil
 7/21/2017 5:10:45 PM



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.94 min Scan# 2128
 Delta R.T. -0.00 min
 Lab File: BE093499.D
 Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	21.0	31.4
265	33.5	24.6	36.8





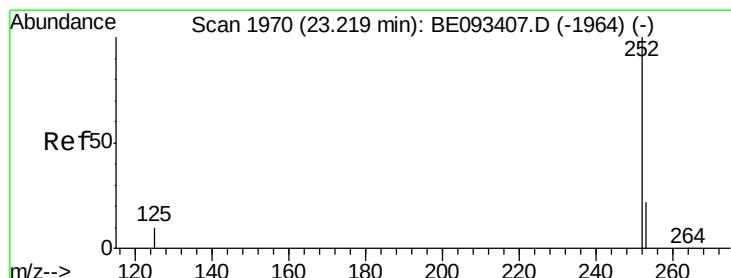
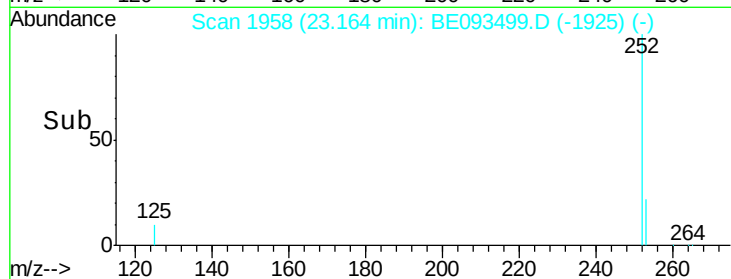
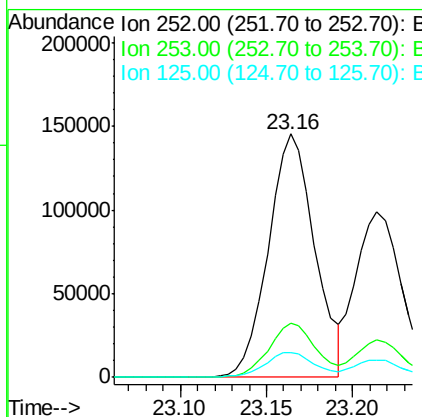
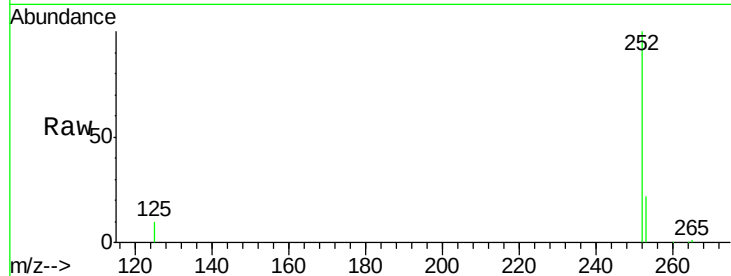
#35
Benzo(b)fluoranthene
Concen: 2.648 ng
RT: 23.16 min Scan# 1958
Delta R.T. -0.00 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampleId :
3578-CC7

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.1	18.5	27.7
125	10.4	13.4	20.0

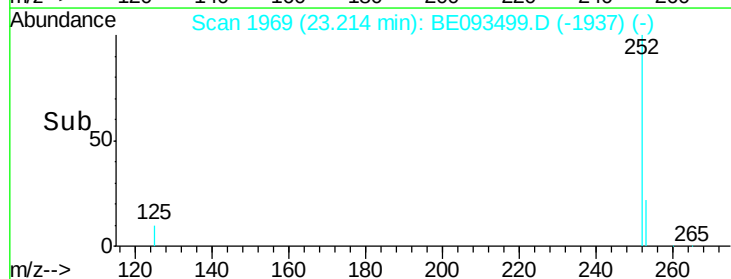
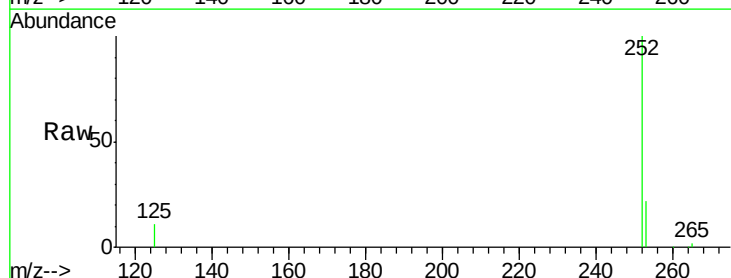
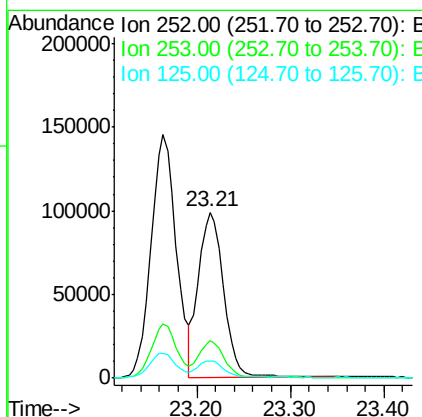
Manual Integrations
APPROVED

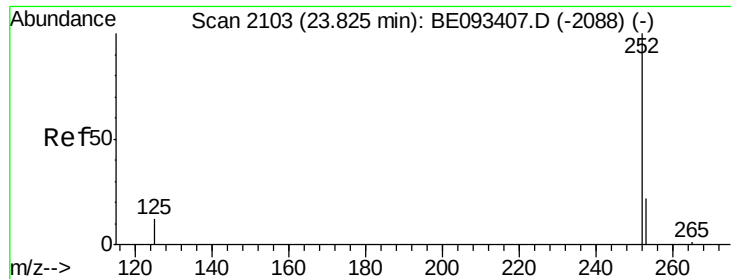
Sohil
7/21/2017 5:10:45 PM



#36
Benzo(k)fluoranthene
Concen: 1.808 ng
RT: 23.21 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.4	20.3	30.5
125	10.5	12.2	18.4





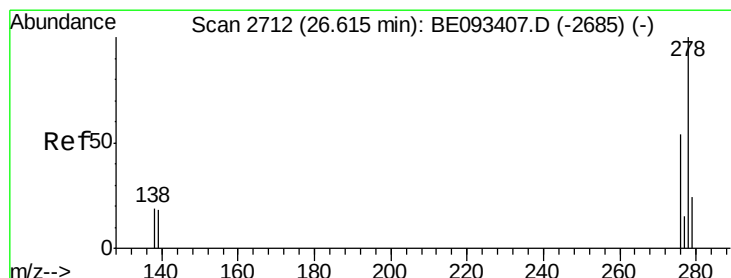
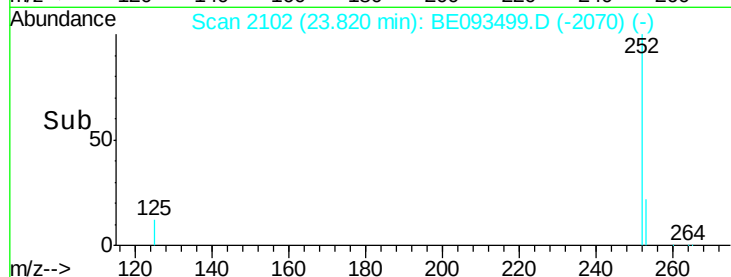
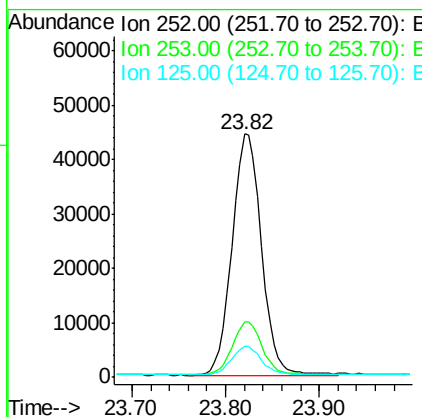
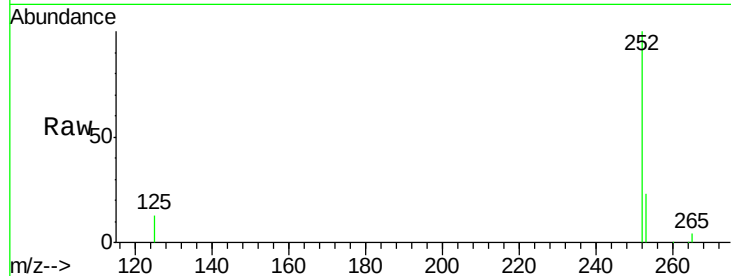
#37
Benzo(a)pyrene
Concen: 1.077 ng
RT: 23.82 min Scan# 2102
Delta R.T. -0.01 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Instrument :
BNA_E
ClientSampleId :
3578-CC7

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.9	29.9
125	12.9	14.6	21.8#

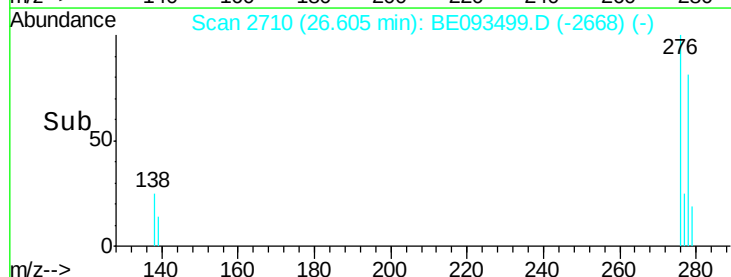
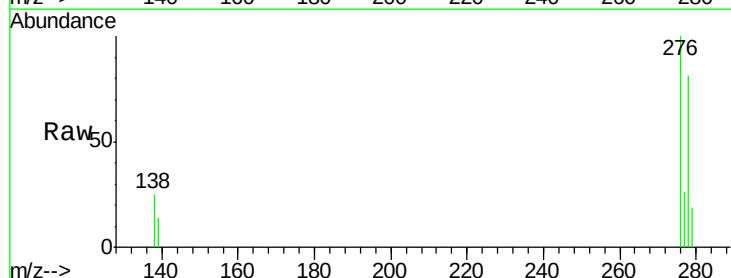
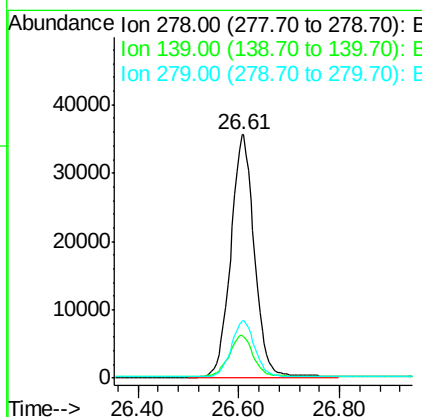
Manual Integrations
APPROVED

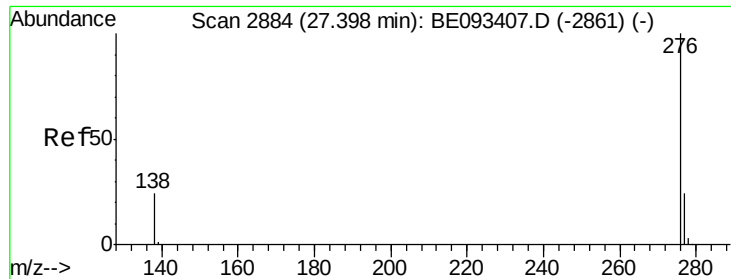
Sohil
7/21/2017 5:10:45 PM



#38
Dibenzo(a,h)anthracene
Concen: 1.336 ng
RT: 26.61 min Scan# 2710
Delta R.T. -0.01 min
Lab File: BE093499.D
Acq: 20 Jul 2017 13:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.5	21.4	32.0#
279	23.5	22.2	33.2





#39

Benzo(g,h,i)perylene

Concen: 0.912 ng

RT: 27.40 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BE093499.D

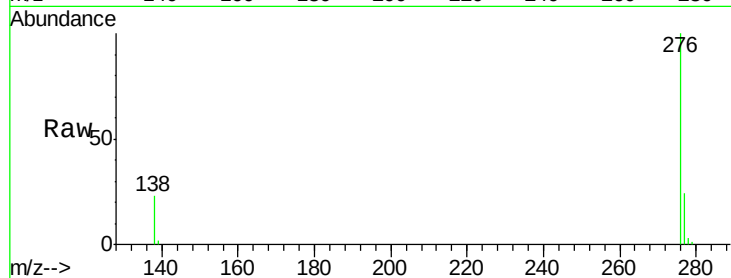
Acq: 20 Jul 2017 13:41

Instrument :

BNA_E

ClientSampleId :

3578-CC7



Tgt Ion:	276	Resp:	80167
Ion Ratio	Lower	Upper	
276	100		
277	23.6	21.2	31.8
138	22.8	24.5	36.7#

Manual Integrations
APPROVED

Sohil
7/21/2017 5:10:45 PM

