

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
 Data File : BE091589.D
 Acq On : 31 Mar 2016 19:15
 Operator : UM/SJ
 Sample : H1855-06MSD
 Misc : LOQ WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-4MSD

Manual Integrations
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Sohil
 4/1/2016 9:40:53 PM

Quant Time: Apr 01 01:10:23 2016

Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 30 18:45:59 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	40547	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	202536	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	125126	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	298012	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	381448	5.00	ng	-0.02
28) Perylene-d12	23.76	264	338065	5.00	ng	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	5.41	112	92673	8.73	ng	-0.02
5) Phenol-d6	6.97	99	143717	10.01	ng	-0.02
7) Nitrobenzene-d5	8.96	82	66030	4.86	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	43768	7.89	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	167673	4.71	ng	-0.02
24) Terphenyl-d14	19.76	244	240825	4.98	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.35	88	19892	4.17	ng	# 91
3) n-Nitrosodimethylamine	3.64	42	32743	4.44	ng	# 99
8) Naphthalene	10.63	128	209647	5.01	ng	96
9) 2-Methylnaphthalene	12.24	142	150797	5.51	ng	# 87
13) Acenaphthylene	14.14	152	316872	6.28	ng	96
14) Acenaphthene	14.49	154	169649	5.48	ng	93
15) Fluorene	15.47	166	210365	5.28	ng	99
17) Hexachlorobenzene	16.46	284	55492	5.06	ng	98
18) Pentachlorophenol	16.81	266	68976	11.20	ng	# 81
19) Phenanthrene	17.19	178	548301	7.86	ng	99
20) Anthracene	17.29	178	408400	6.35	ng	99
21) Fluoranthene	19.21	202	947488	11.52	ng	99
23) Pyrene	19.57	202	959486	12.34	ng	96
25) Benzo(a)anthracene	21.29	228	770235m	8.60	ng	
26) Chrysene	21.34	228	627667m	8.19	ng	
27) Indeno(1,2,3-cd)pyrene	26.33	276	632070	7.16	ng	98
29) Benzo(b)fluoranthene	23.01	252	745248	9.09	ng	98
30) Benzo(k)fluoranthene	23.06	252	570598	7.19	ng	95
31) Benzo(a)pyrene	23.65	252	680722	9.08	ng	94
32) Dibenzo(a,h)anthracene	26.35	278	406245	5.52	ng	98
33) Benzo(g,h,i)perylene	27.11	276	574485	7.65	ng	99

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

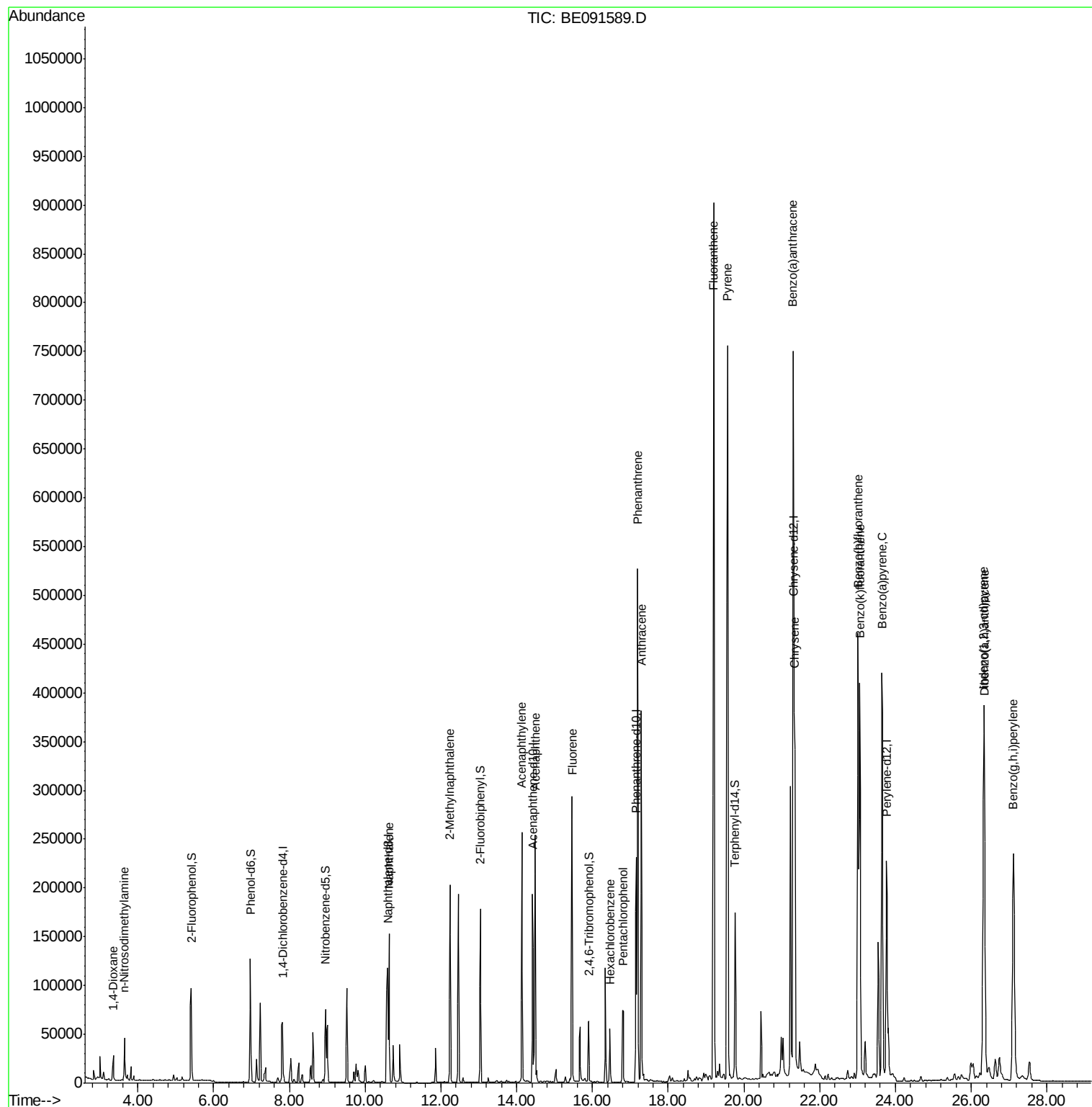
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
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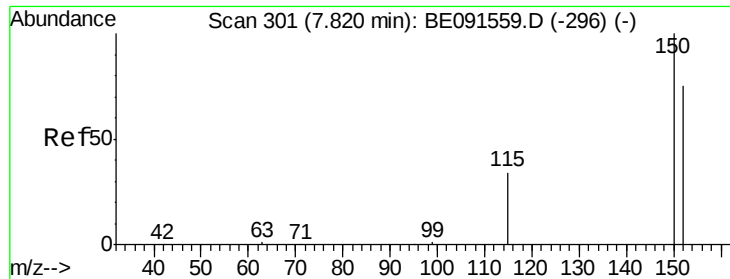
Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Manual Integrations
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4/1/2016 9:40:53 PM

Quant Time: Apr 01 01:10:23 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091589.D

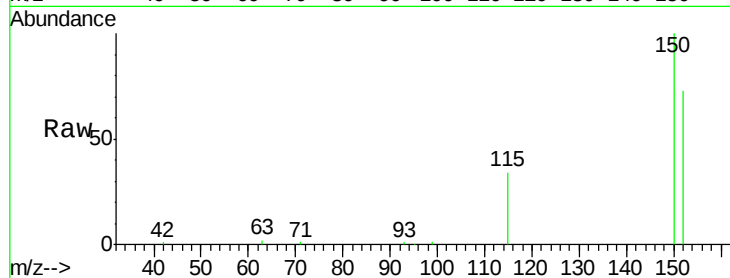
Acq: 31 Mar 2016 19:15

Instrument :

BNA_E

ClientSampleId :

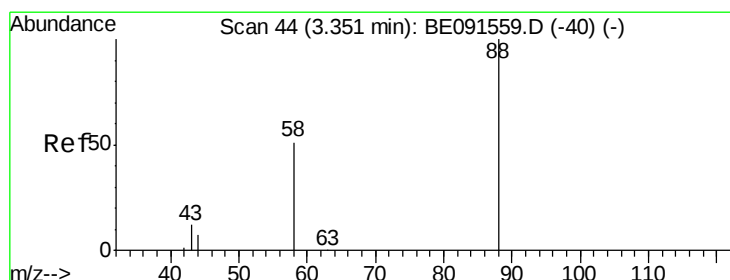
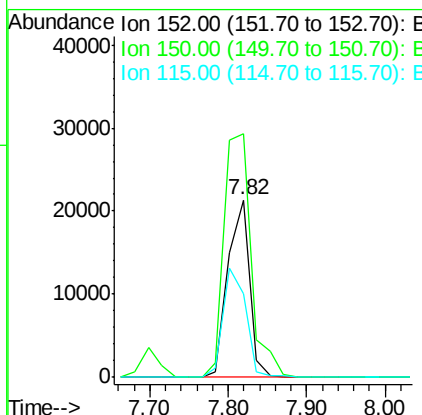
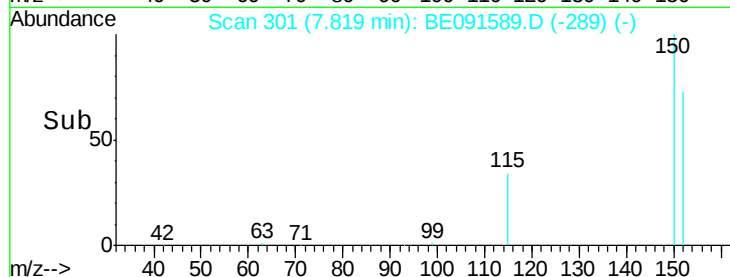
SB-4MSD



Tgt Ion:	152	Resp:	40547
Ion Ratio	Lower	Upper	
152	100		
150	137.4	122.2	183.2
115	47.0	45.9	68.9

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#2

1,4-Dioxane

Concen: 4.17 ng

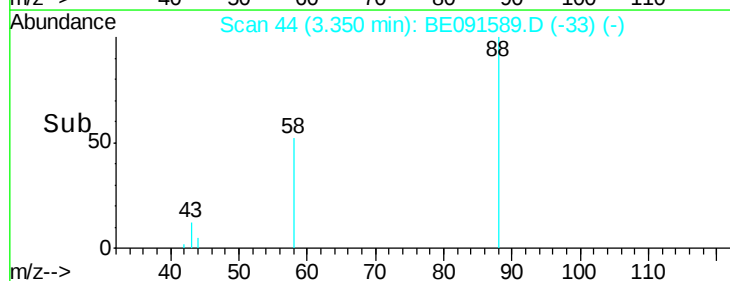
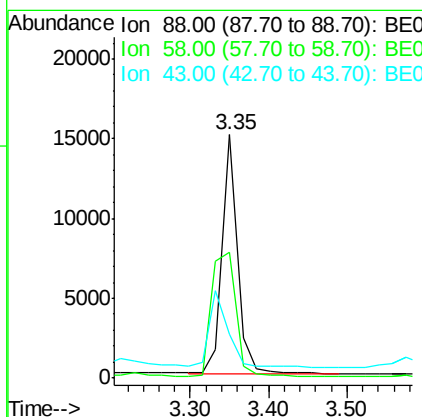
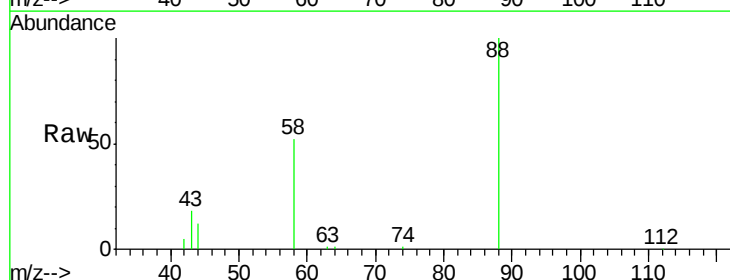
RT: 3.35 min Scan# 44

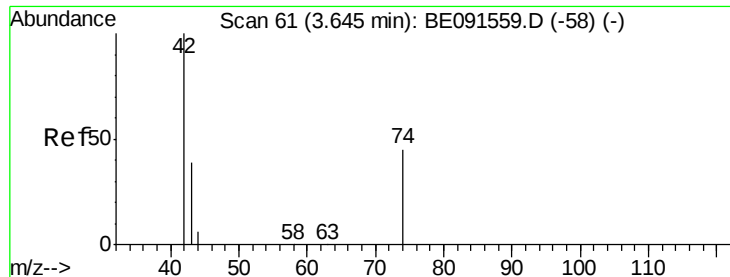
Delta R.T. -0.02 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Tgt Ion:	88	Resp:	19892
Ion Ratio	Lower	Upper	
88	100		
58	82.5	61.0	91.6
43	39.4	25.4	38.2#





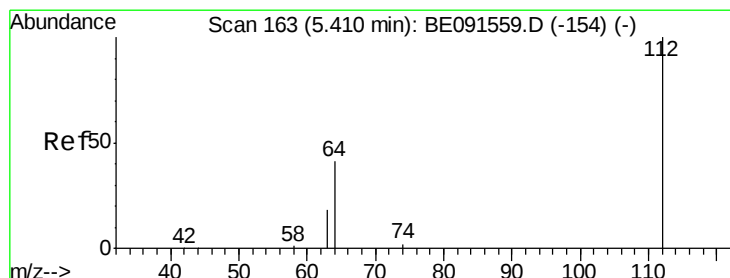
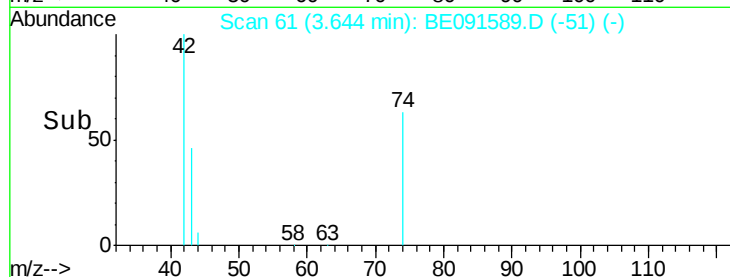
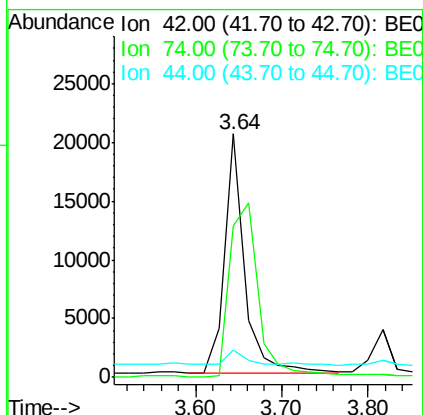
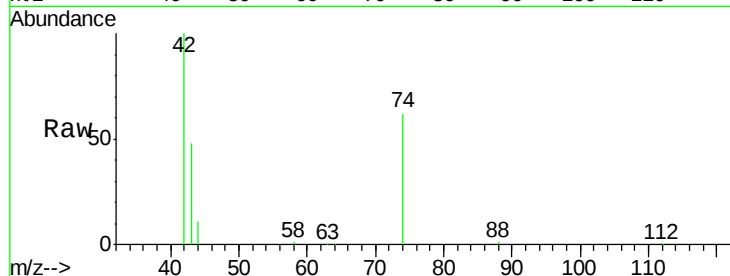
#3
 n-Nitrosodimethylamine
 Concen: 4.44 ng
 RT: 3.64 min Scan# 61
 Delta R.T. -0.03 min
 Lab File: BE091589.D
 Acq: 31 Mar 2016 19:15

Instrument :
 BNA_E
 ClientSampleId :
 SB-4MSD

Tgt Ion	Ratio	Lower	Upper
42	100		
74	104.8	84.3	126.5
44	5.6	6.7	10.1#

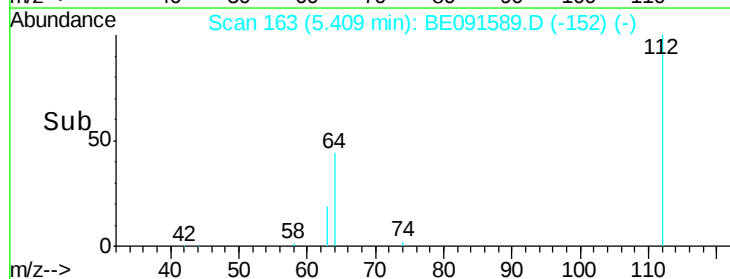
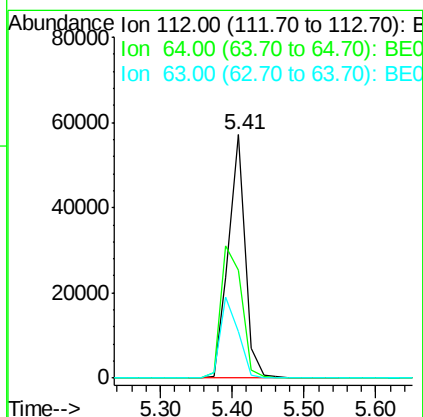
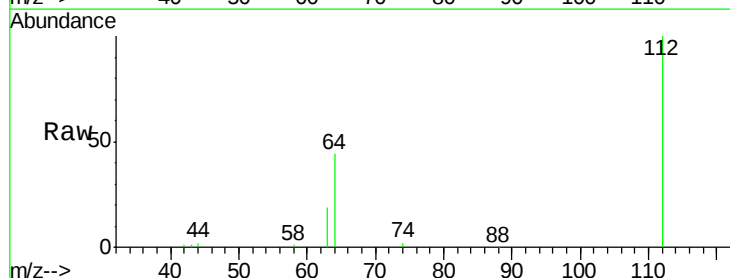
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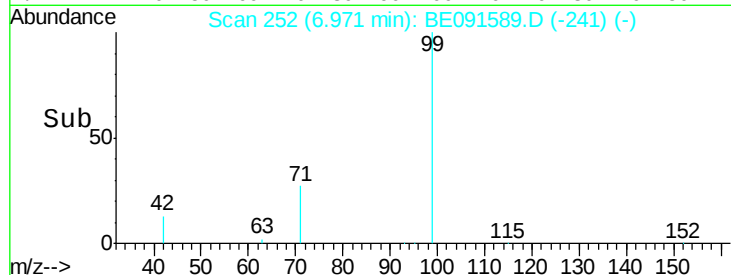
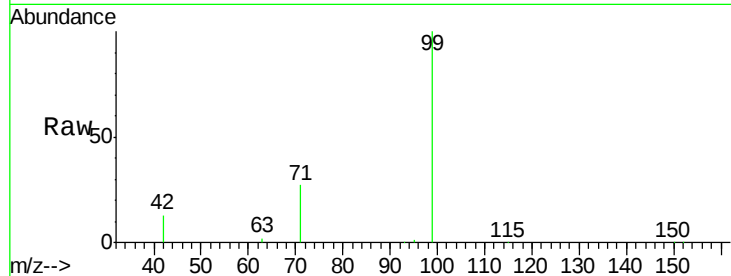
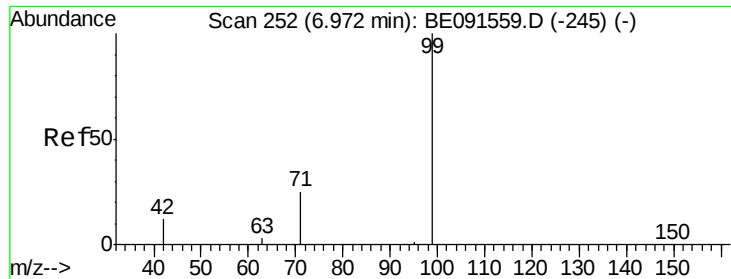
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#4
 2-Fluorophenol
 Concen: 8.73 ng
 RT: 5.41 min Scan# 163
 Delta R.T. -0.02 min
 Lab File: BE091589.D
 Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	53.3	79.9
63	36.1	29.8	44.8





#5

Phenol-d6

Concen: 10.01 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	143717		
42	25.1	20.6	30.8	
71	35.6	29.0	43.4	

Instrument :

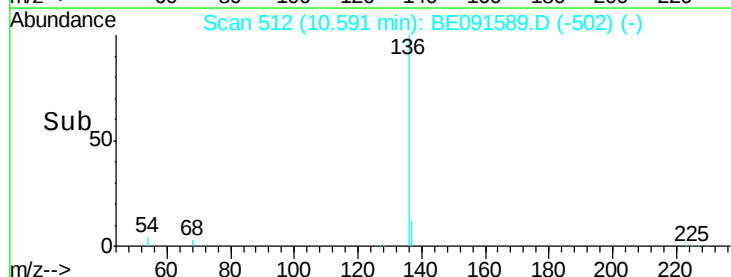
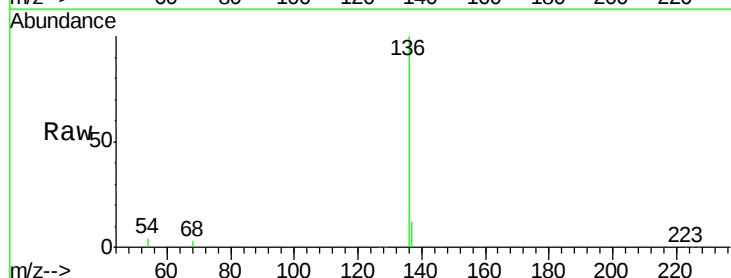
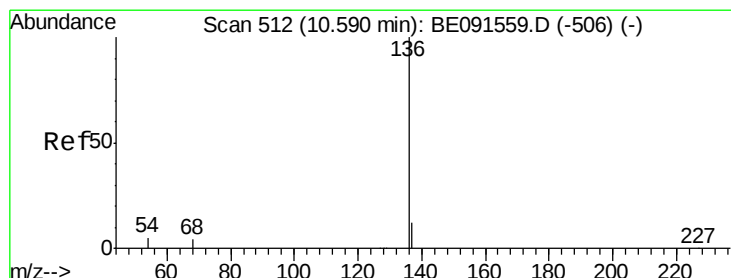
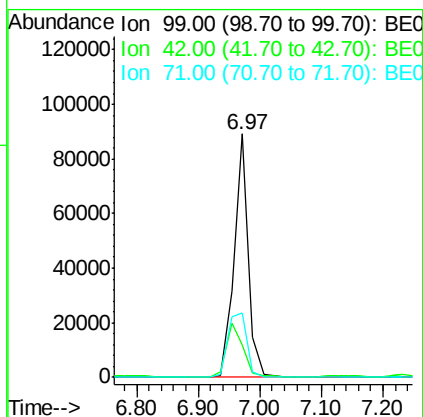
BNA_E

ClientSampleId :

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#6

Naphthalene-d8

Concen: 5.00 ng

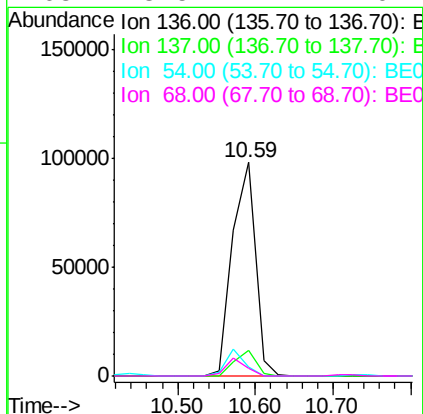
RT: 10.59 min Scan# 512

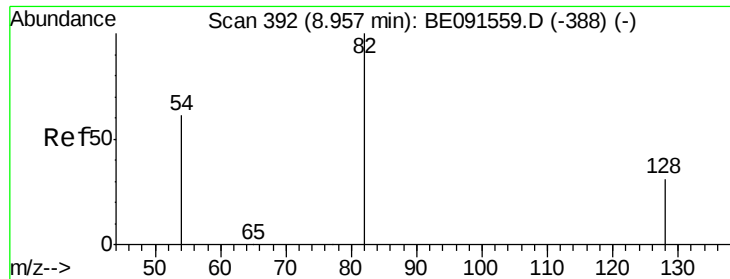
Delta R.T. -0.00 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	202536		
137	12.0	8.8	13.2	
54	4.1	5.2	7.8#	
68	3.5	4.1	6.1#	





#7

Nitrobenzene-d5

Concen: 4.86 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091589.D

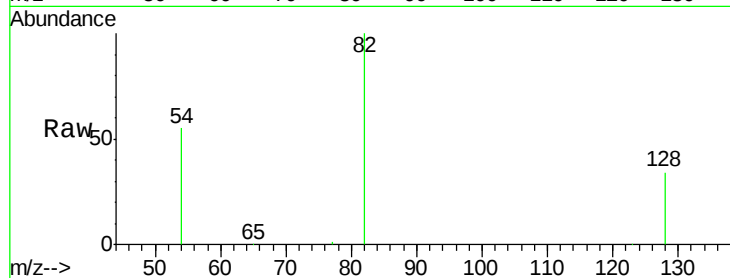
Acq: 31 Mar 2016 19:15

Instrument :

BNA_E

ClientSampleId :

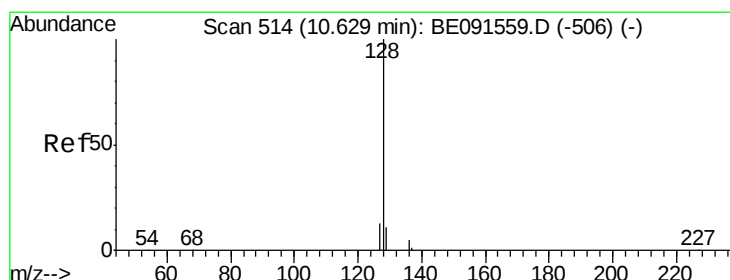
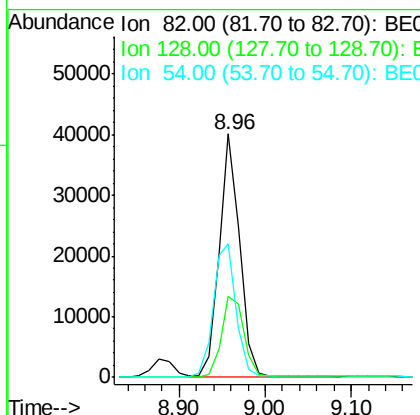
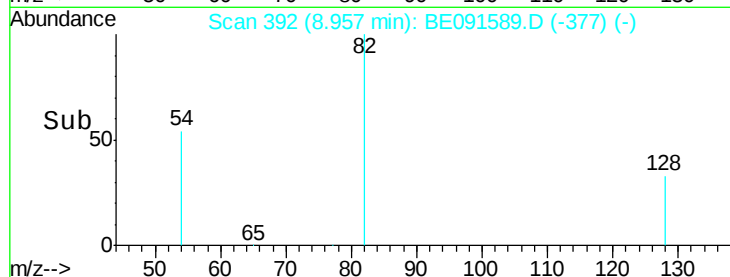
SB-4MSD



Tgt Ion	82	Resp:	66030
Ion Ratio	100	Lower	Upper
82	100		
128	33.5	23.5	35.3
54	54.7	52.4	78.6

Manual Integrations
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4/1/2016 9:40:53 PM



#8

Naphthalene

Concen: 5.01 ng

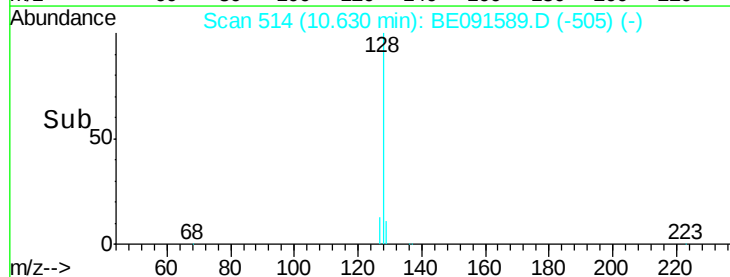
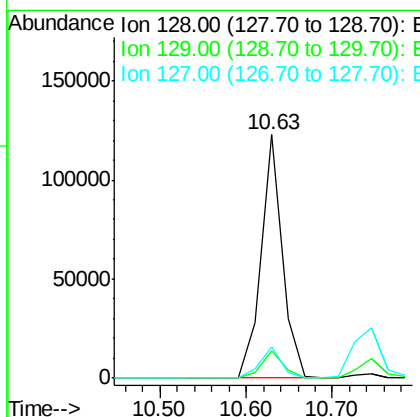
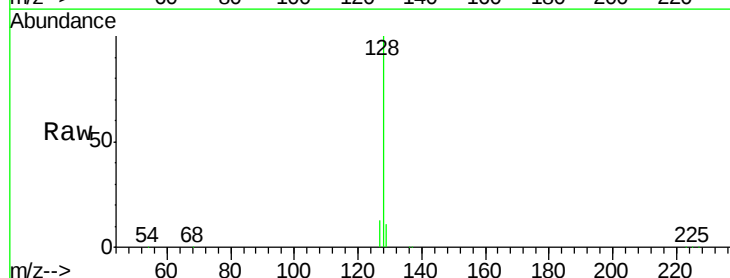
RT: 10.63 min Scan# 514

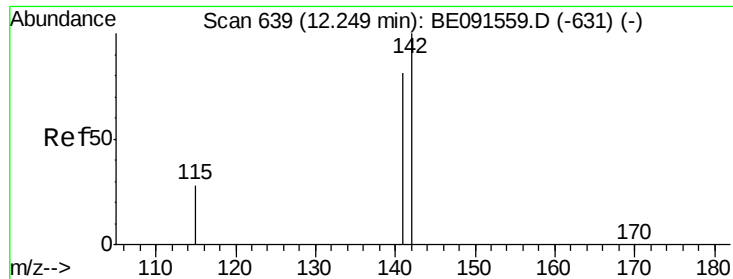
Delta R.T. -0.02 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Tgt Ion	128	Resp:	209647
Ion Ratio	100	Lower	Upper
128	100		
129	11.1	8.2	12.2
127	13.0	11.8	17.8





#9

2-Methylnaphthalene

Concen: 5.51 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Instrument :

BNA_E

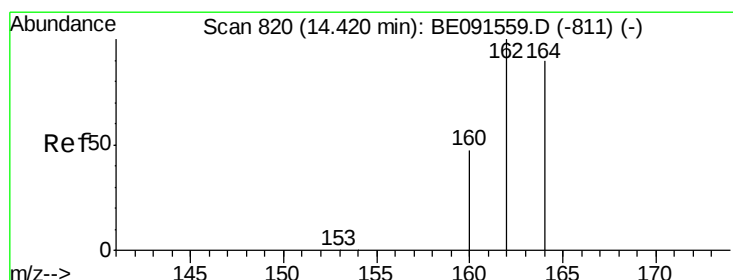
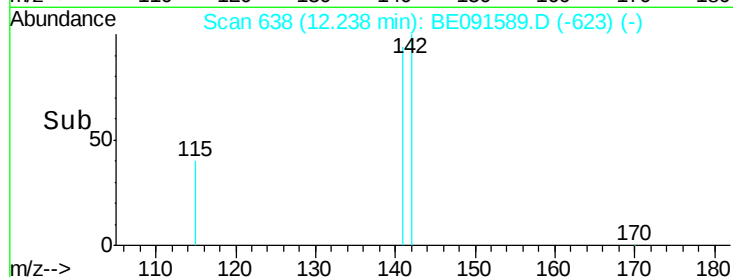
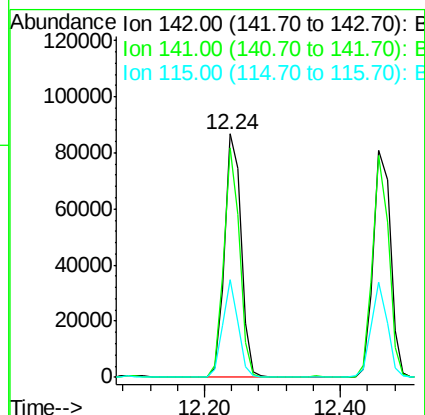
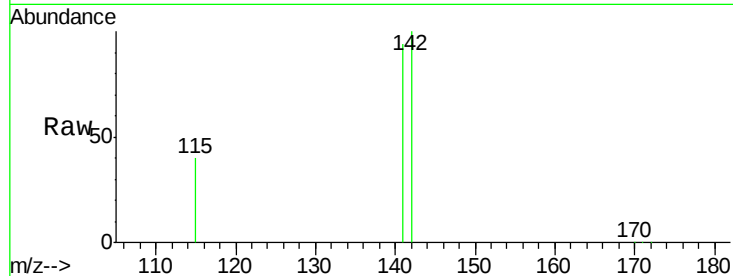
ClientSampled :

SB-4MSD

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Tgt Ion:	142	Resp:	150797
Ion Ratio	Lower	Upper	
142	100		
141	94.3	66.9	100.3
115	40.0	25.1	37.7#



#10

Acenaphthene-d10

Concen: 5.00 ng

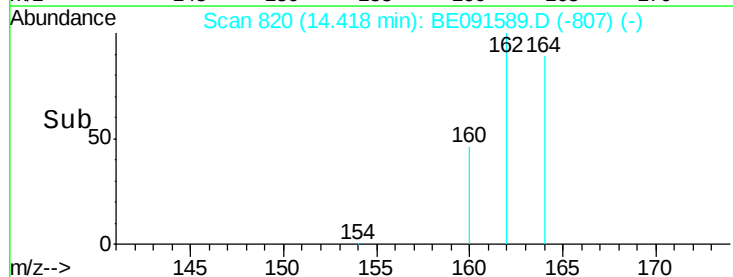
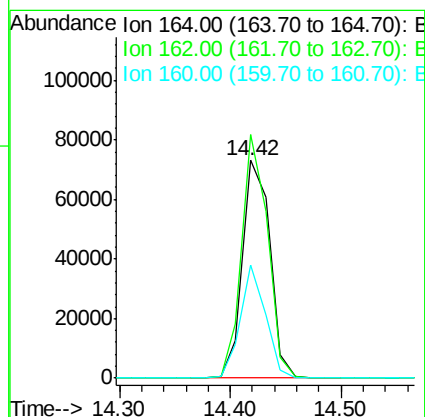
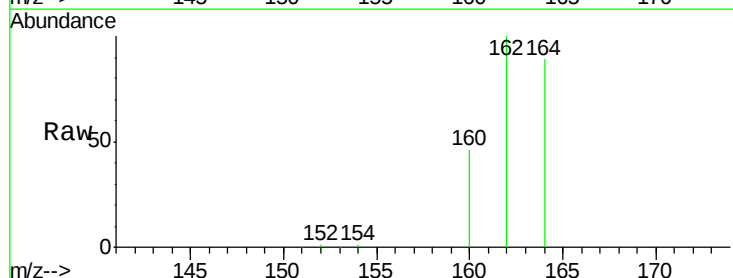
RT: 14.42 min Scan# 820

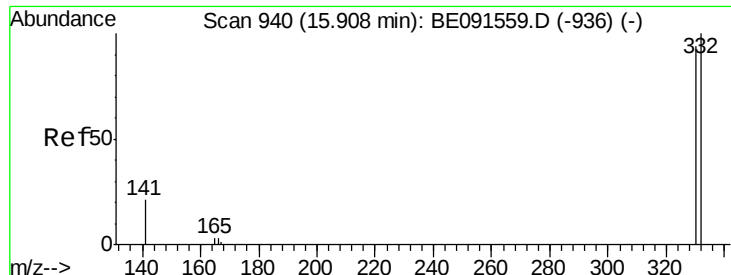
Delta R.T. -0.03 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Tgt Ion:	164	Resp:	125126
Ion Ratio	Lower	Upper	
164	100		
162	111.9	84.4	126.6
160	51.8	37.7	56.5





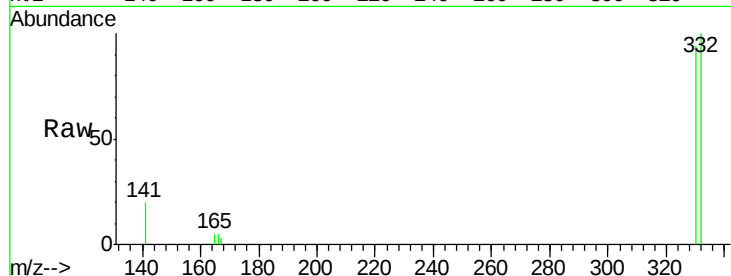
#11
 2,4,6-Tribromophenol
 Concen: 7.89 ng
 RT: 15.91 min Scan# 940
 Delta R.T. -0.01 min
 Lab File: BE091589.D
 Acq: 31 Mar 2016 19:15

Instrument :
 BNA_E
 ClientSampleId :
 SB-4MSD

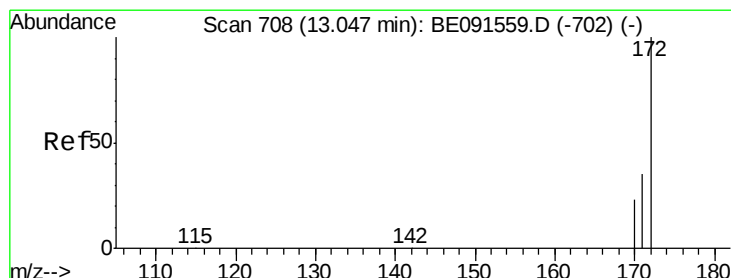
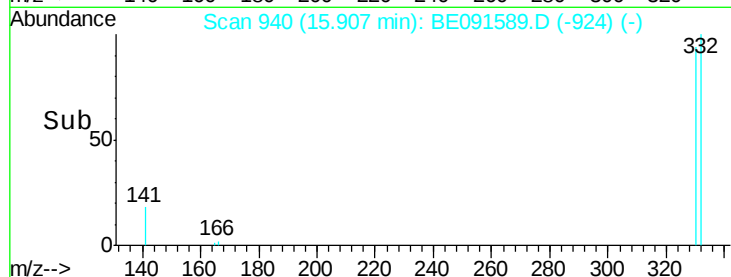
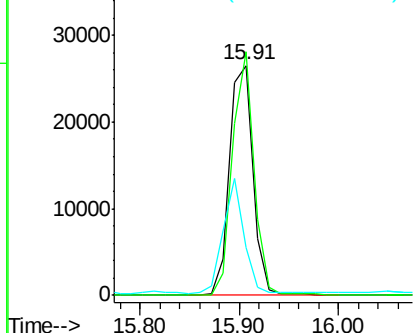
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	43768		
332	96.1	79.2	118.8	
141	43.5	28.1	42.1#	

Manual Integrations
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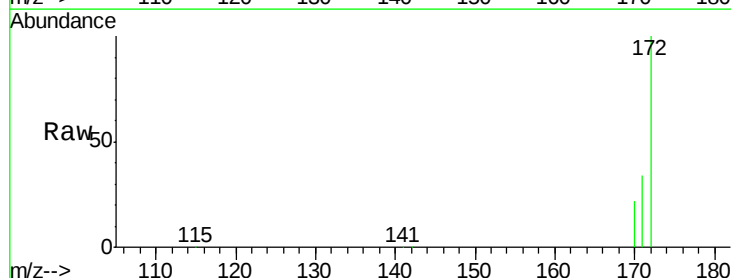


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

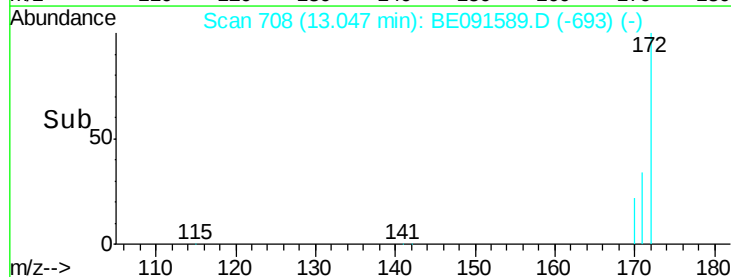
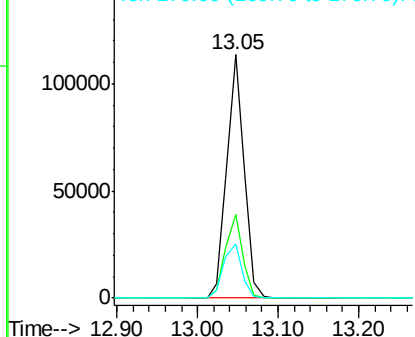


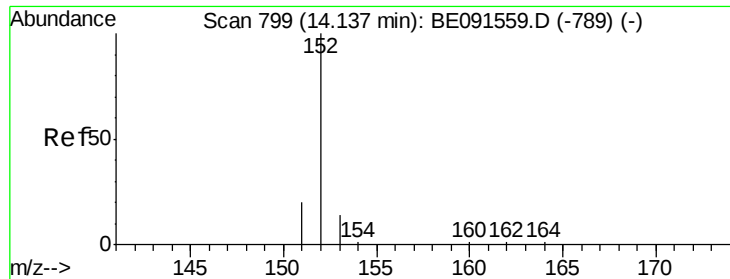
#12
 2-Fluorobiphenyl
 Concen: 4.71 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091589.D
 Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	167673		
171	34.1	29.8	44.8	
170	22.2	21.4	32.2	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





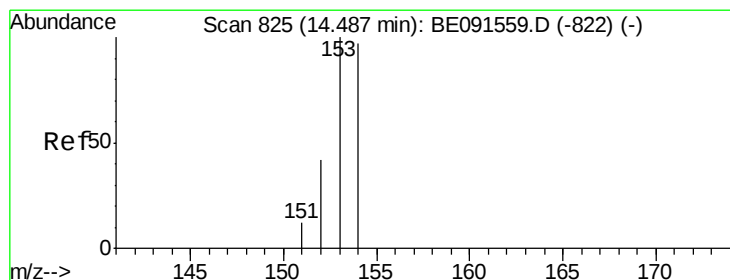
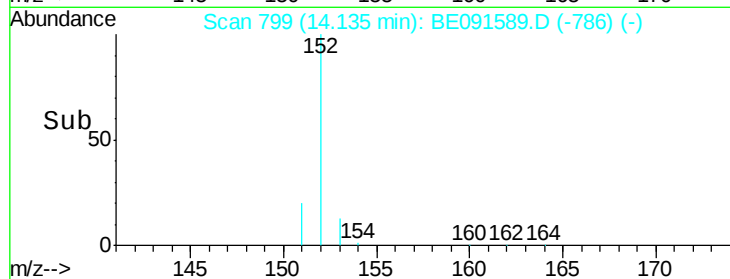
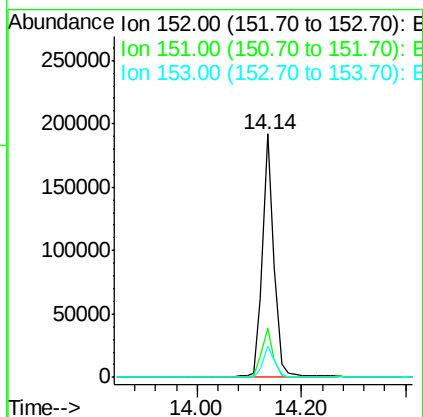
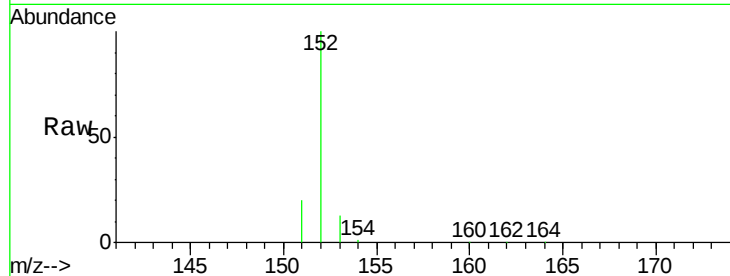
#13
Acenaphthylene
Concen: 6.28 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.4	16.3	24.5
153	12.3	11.1	16.7

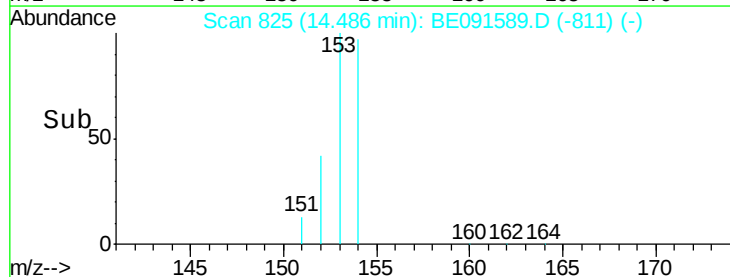
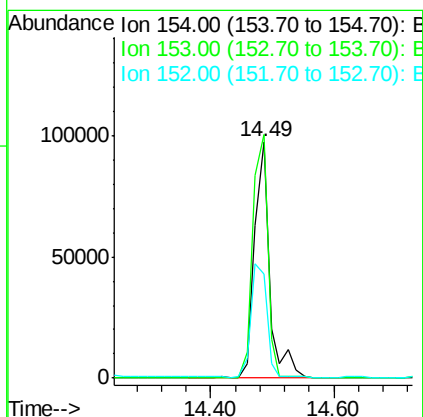
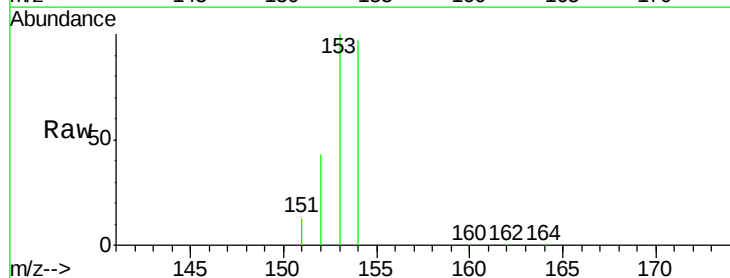
Manual Integrations
APPROVED

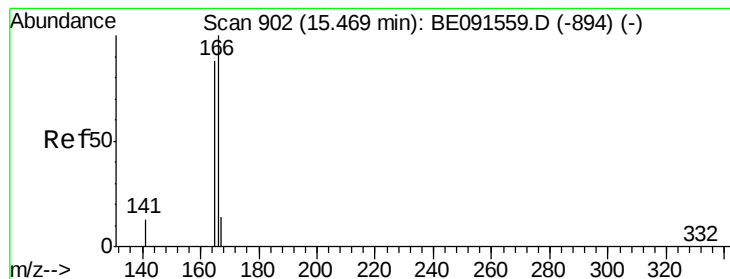
Sohil
4/1/2016 9:40:53 PM



#14
Acenaphthene
Concen: 5.48 ng
RT: 14.49 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
154	100		
153	101.4	87.3	130.9
152	49.6	42.9	64.3





#15

Fluorene

Concen: 5.28 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Instrument :

BNA_E

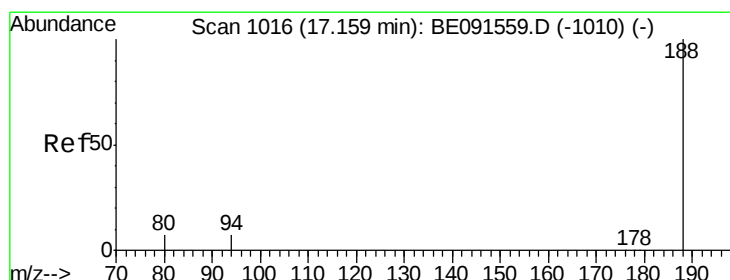
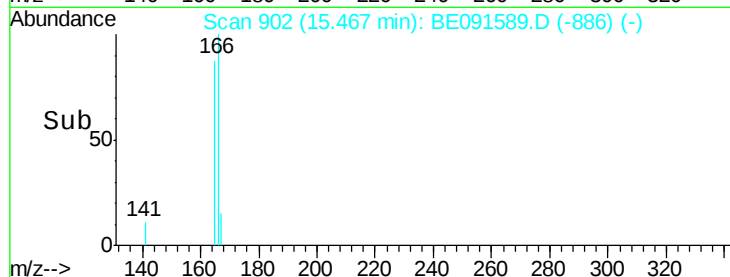
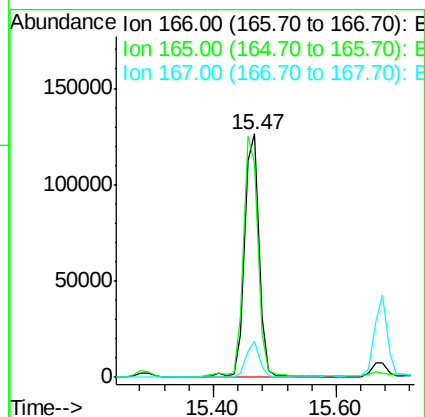
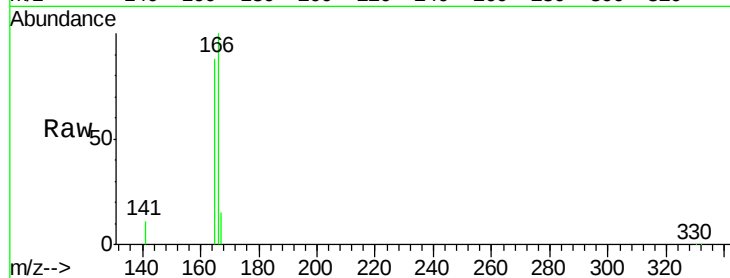
ClientSampleId :

SB-4MSD

Manual Integrations
APPROVED

Sohil
4/1/2016 9:40:53 PM

Tgt Ion:	166	Resp:	210365
Ion Ratio	Lower	Upper	
166	100		
165	99.9	79.2	118.8
167	13.2	10.8	16.2



#16

Phenanthrene-d10

Concen: 5.00 ng

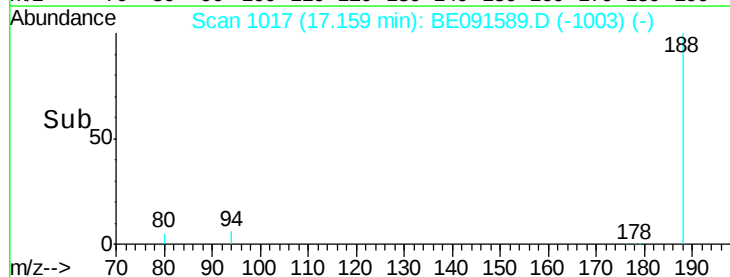
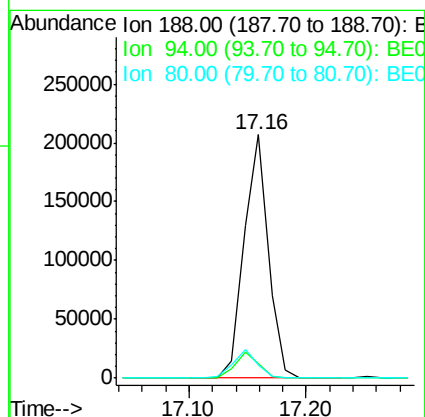
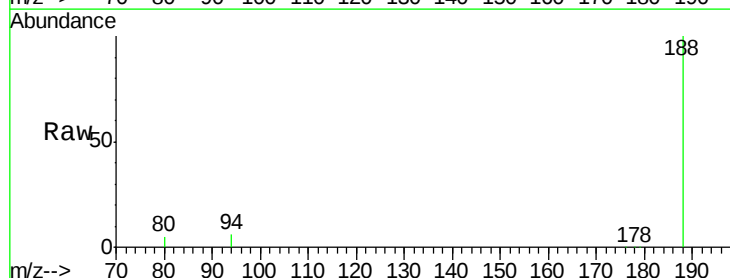
RT: 17.16 min Scan# 1017

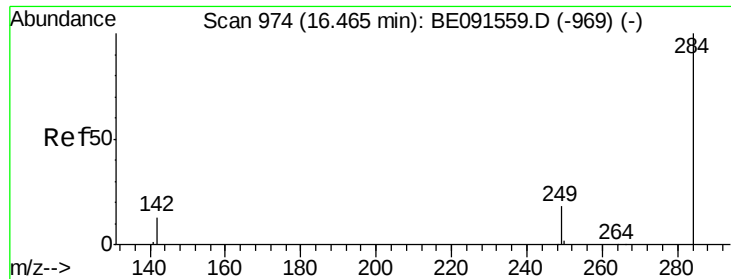
Delta R.T. -0.01 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Tgt Ion:	188	Resp:	298012
Ion Ratio	Lower	Upper	
188	100		
94	6.1	5.4	8.2
80	5.2	5.0	7.4





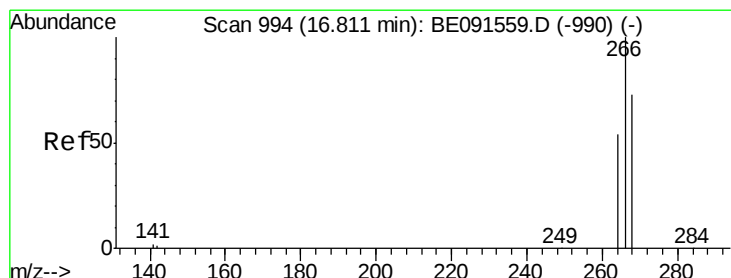
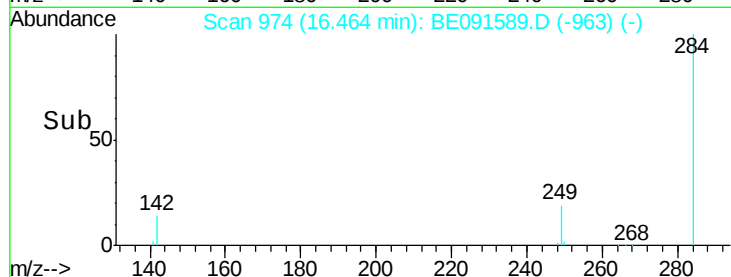
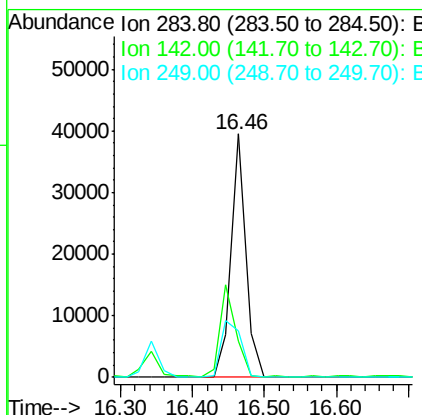
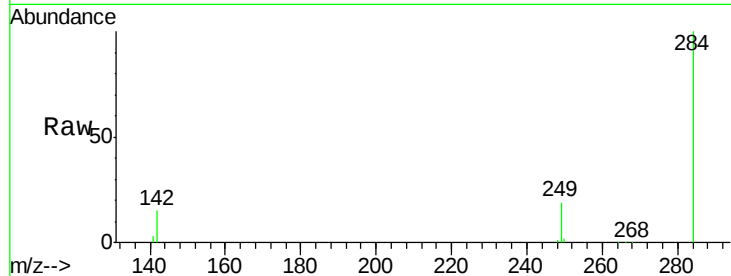
#17
Hexachlorobenzene
Concen: 5.06 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.6	31.0	46.4
249	32.1	25.8	38.8

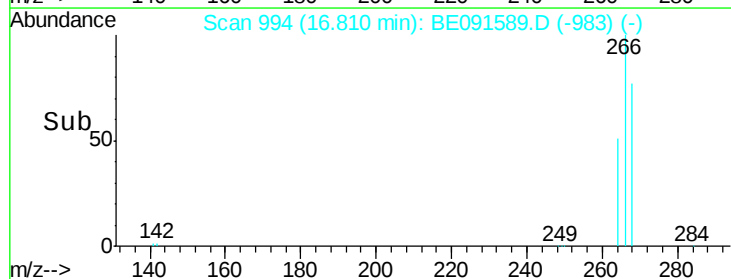
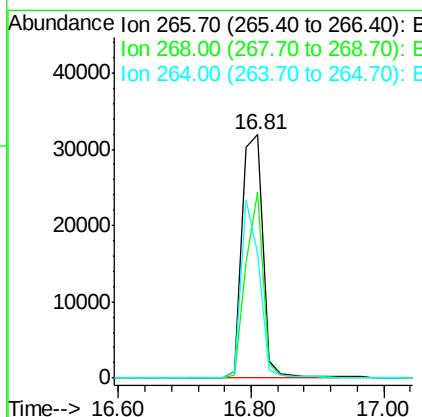
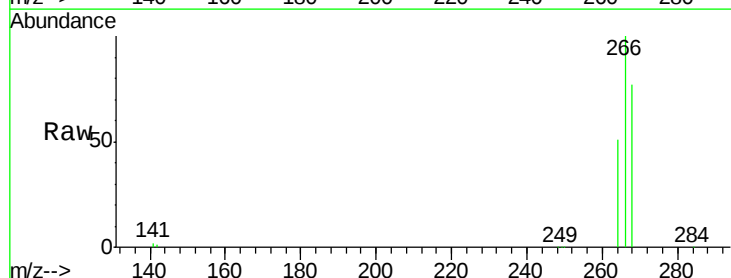
Manual Integrations
APPROVED

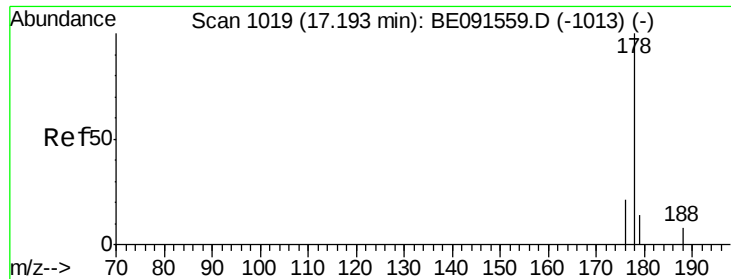
Sohil
4/1/2016 9:40:53 PM



#18
Pentachlorophenol
Concen: 11.20 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
266	100		
268	76.6	48.2	72.2#
264	51.3	52.1	78.1#





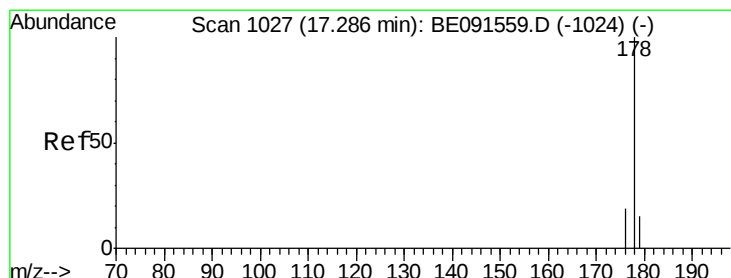
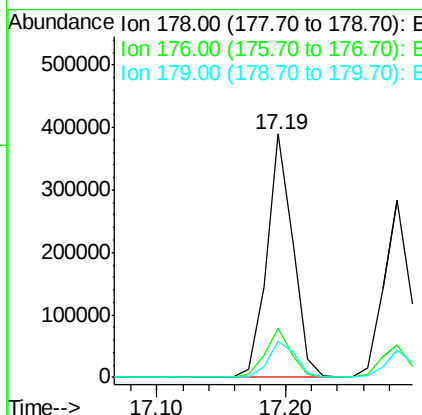
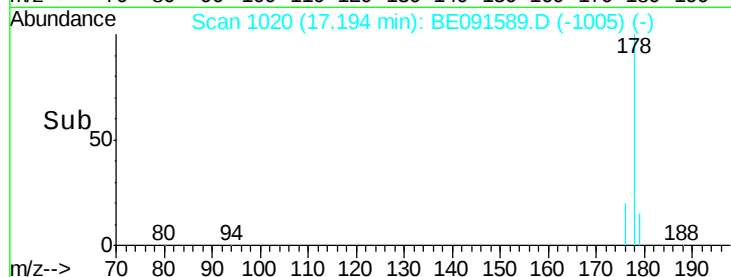
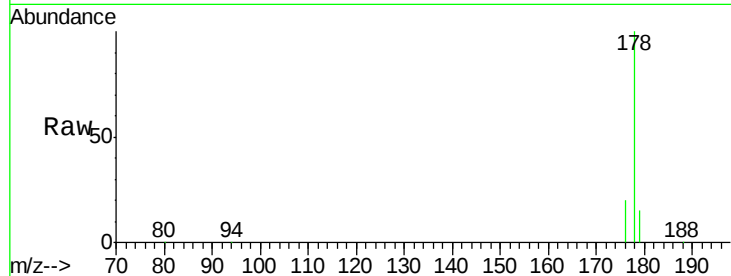
#19
Phenanthrene
Concen: 7.86 ng
RT: 17.19 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.5	13.1	19.7

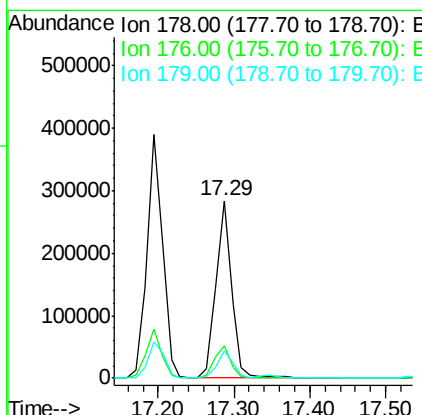
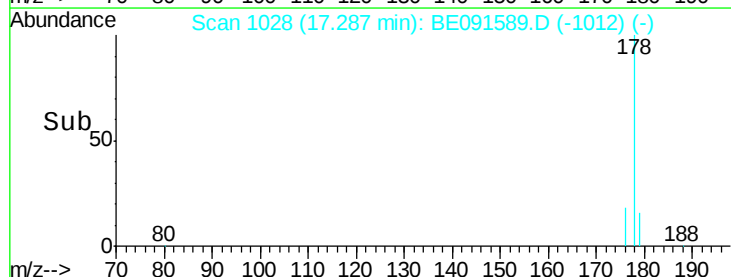
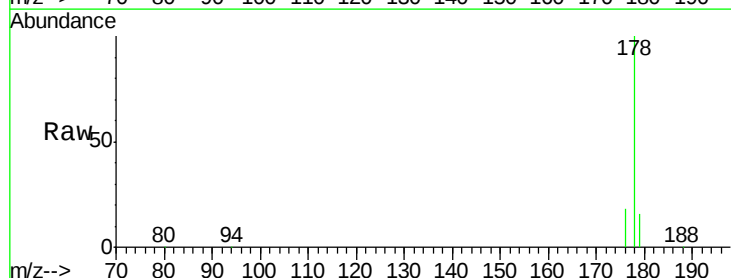
Manual Integrations
APPROVED

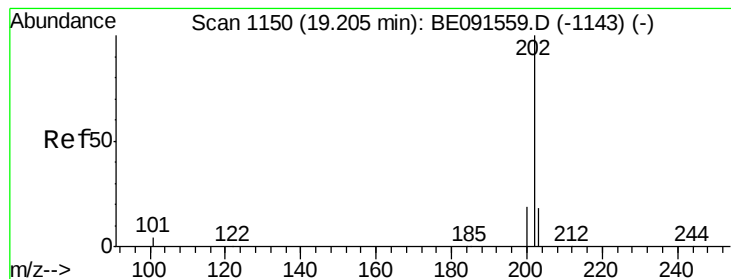
Sohil
4/1/2016 9:40:53 PM



#20
Anthracene
Concen: 6.35 ng
RT: 17.29 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.9	22.3
179	15.2	12.2	18.4





#21

Fluoranthene

Concen: 11.52 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Instrument :

BNA_E

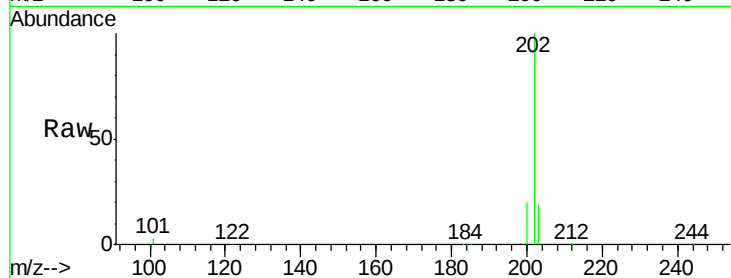
ClientSampleId :

SB-4MSD

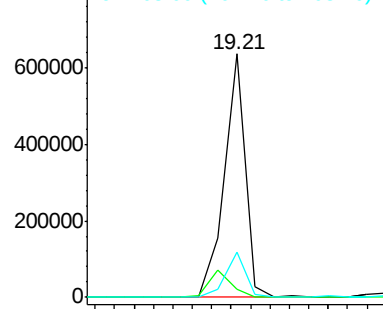
Tgt	Ion	202	Resp:	947488
Ion	Ratio	Lower	Upper	
202	100			
101	11.1	8.3	12.5	
203	17.9	13.9	20.9	

Manual Integrations
APPROVED

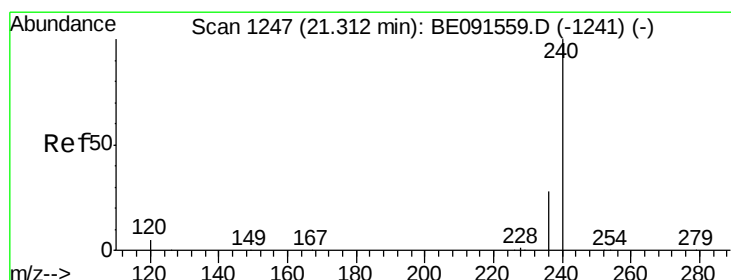
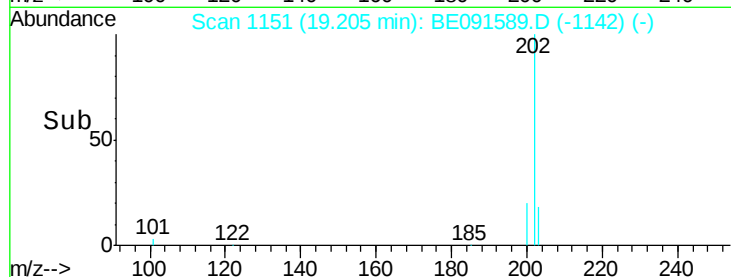
Sohil
4/1/2016 9:40:53 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#22

Chrysene-d12

Concen: 5.00 ng

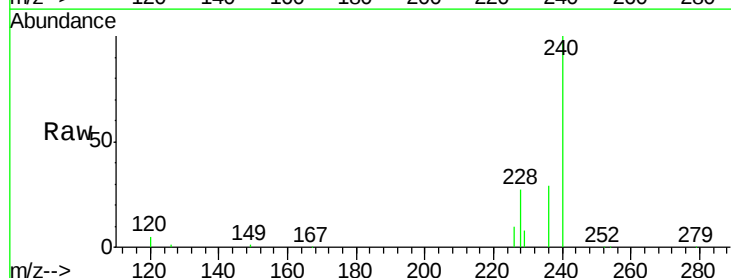
RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

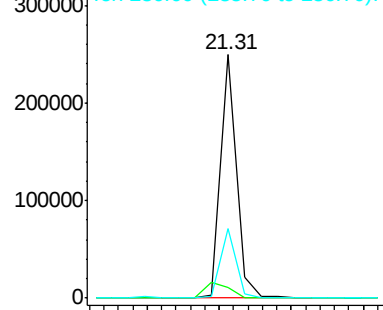
Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

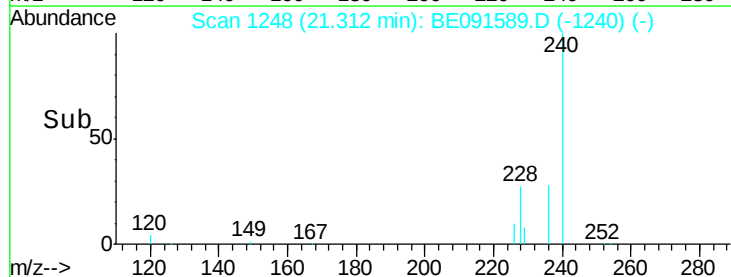
Tgt	Ion	240	Resp:	381448
Ion	Ratio	Lower	Upper	
240	100			
120	4.6	4.0	6.0	
236	28.5	23.0	34.4	

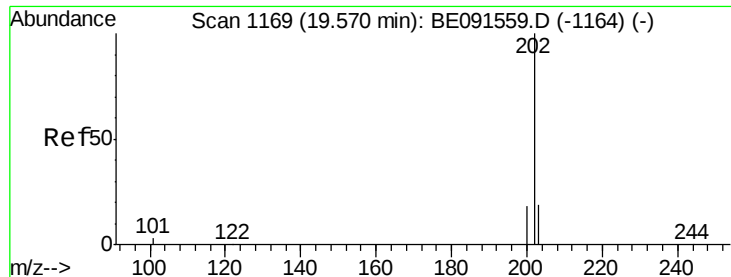


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





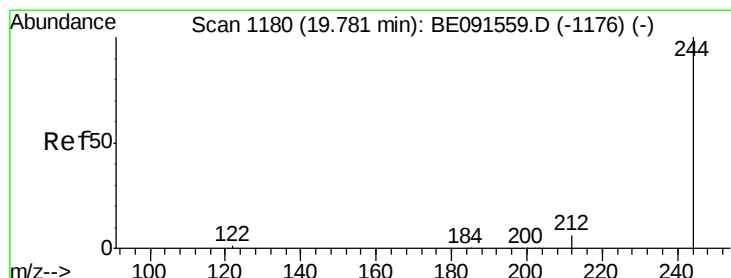
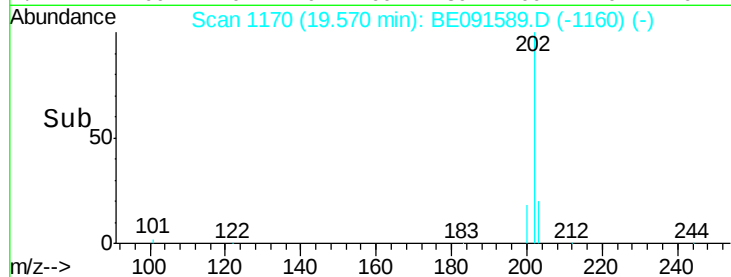
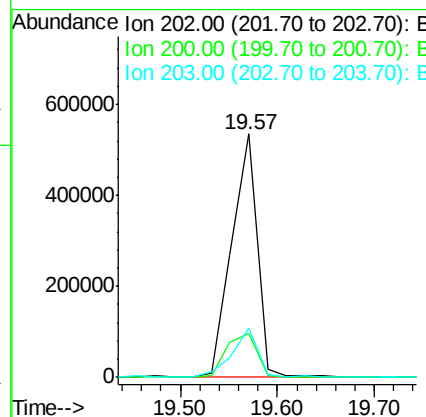
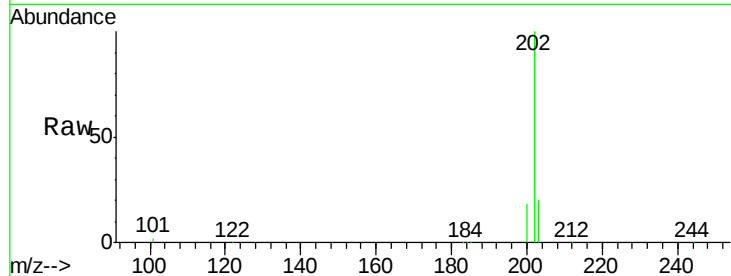
#23
 Pyrene
 Concen: 12.34 ng
 RT: 19.57 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BE091589.D
 Acq: 31 Mar 2016 19:15

Instrument :
 BNA_E
 ClientSampleId :
 SB-4MSD

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	959486		
200	21.6		16.4	24.6
203	20.4		14.6	21.8

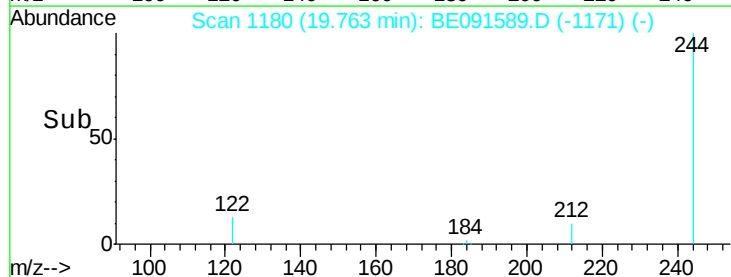
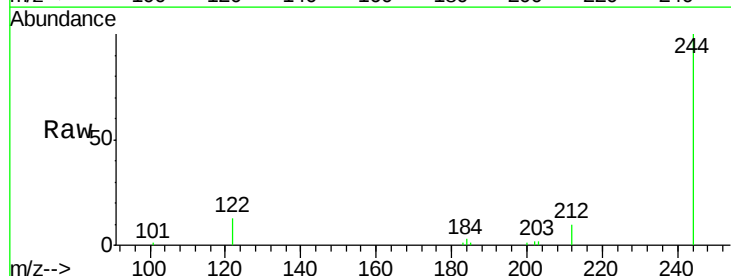
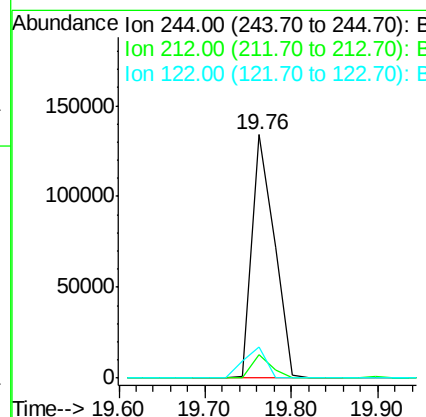
Manual Integrations
 APPROVED

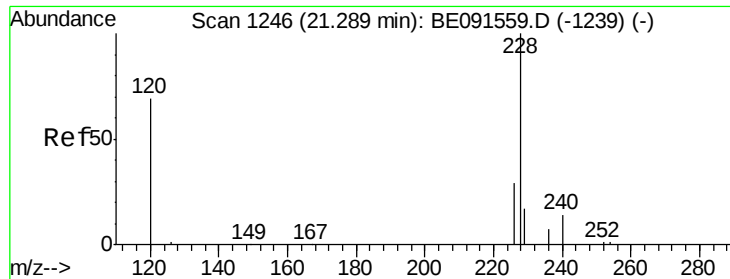
Sohil
 4/1/2016 9:40:53 PM



#24
 Terphenyl-d14
 Concen: 4.98 ng
 RT: 19.76 min Scan# 1180
 Delta R.T. -0.02 min
 Lab File: BE091589.D
 Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	240825		
212	9.8		5.8	8.8#
122	12.8		1.8	2.8#





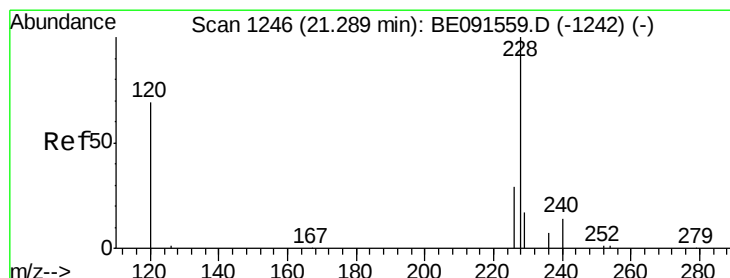
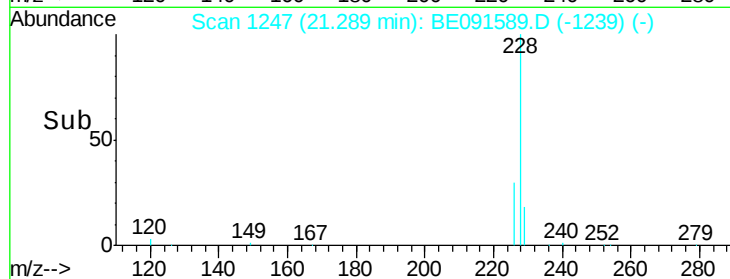
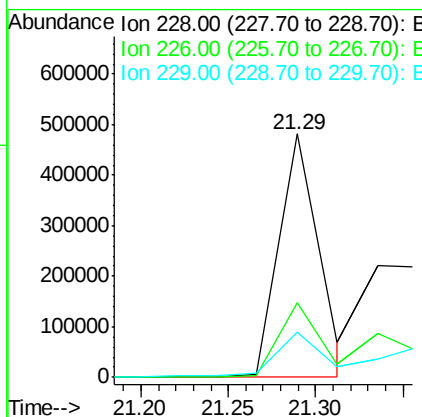
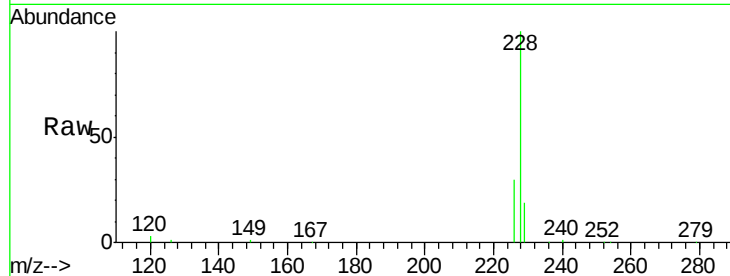
#25
Benzo(a)anthracene
Concen: 8.60 ng m
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.0	36.0
229	18.8	13.8	20.6

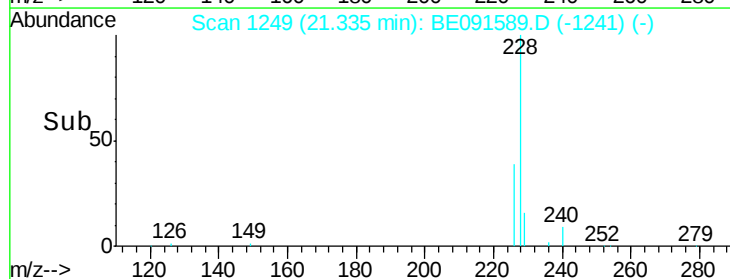
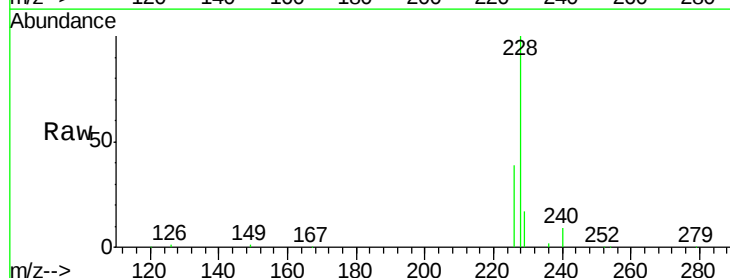
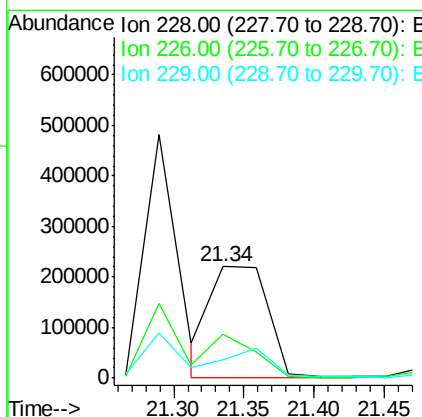
Manual Integrations
APPROVED

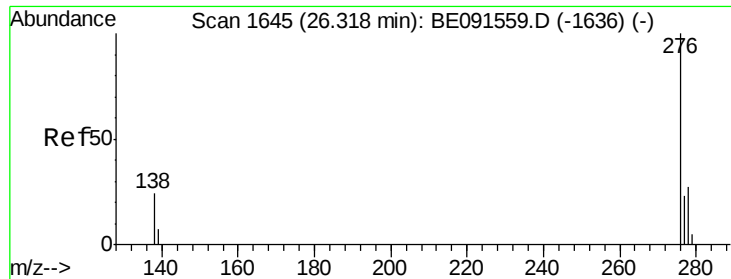
Sohil
4/1/2016 9:40:53 PM



#26
Chrysene
Concen: 8.19 ng m
RT: 21.34 min Scan# 1249
Delta R.T. -0.02 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.3	18.9	28.3#
229	16.9	19.1	28.7#





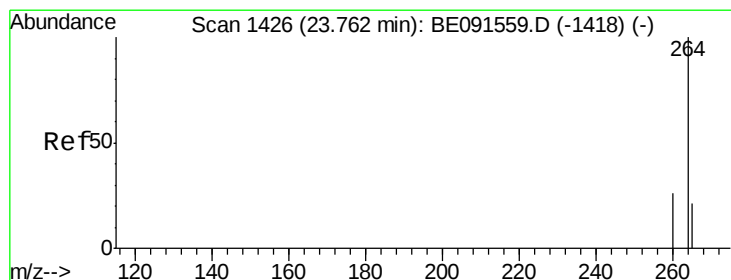
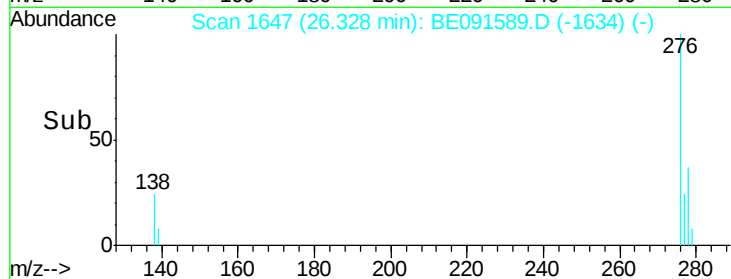
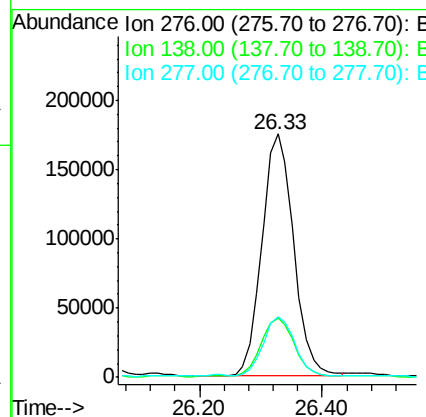
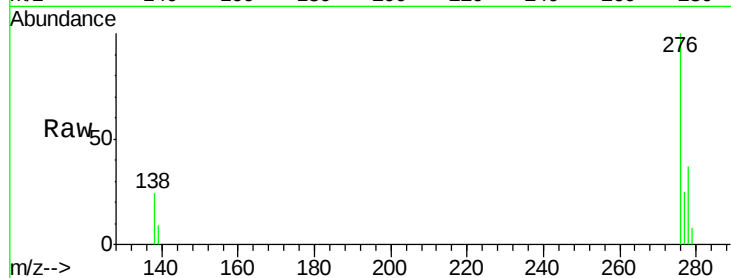
#27
Indeno(1,2,3-cd)pyrene
Concen: 7.16 ng
RT: 26.33 min Scan# 1647
Delta R.T. -0.05 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	24.5	20.2	30.4
277	24.1	19.8	29.8

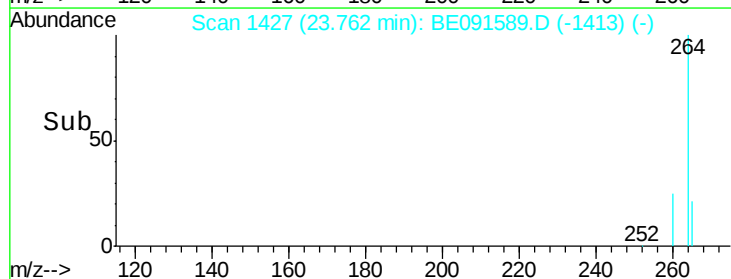
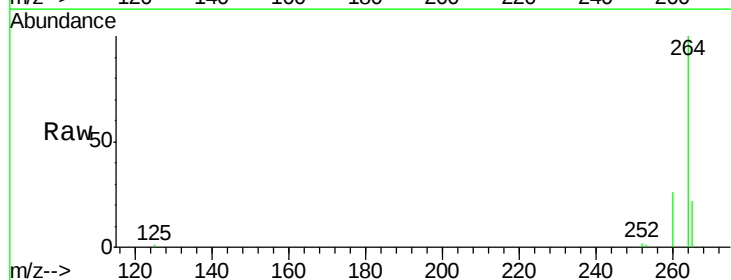
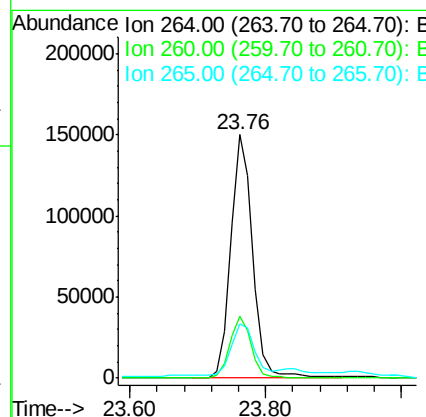
Manual Integrations
APPROVED

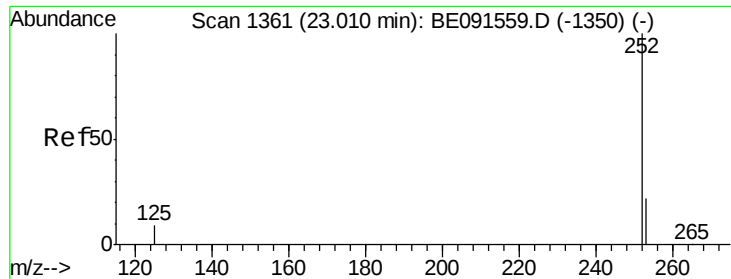
Sohil
4/1/2016 9:40:53 PM



#28
Perylene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.6	20.1	30.1
265	22.2	18.3	27.5





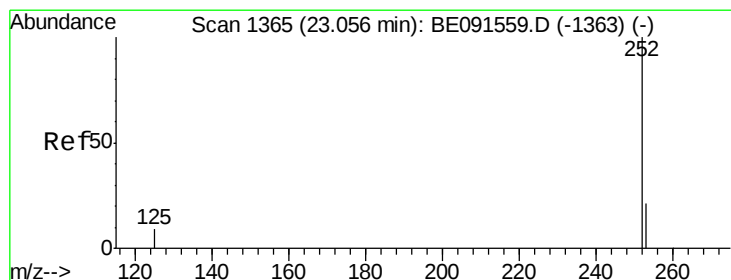
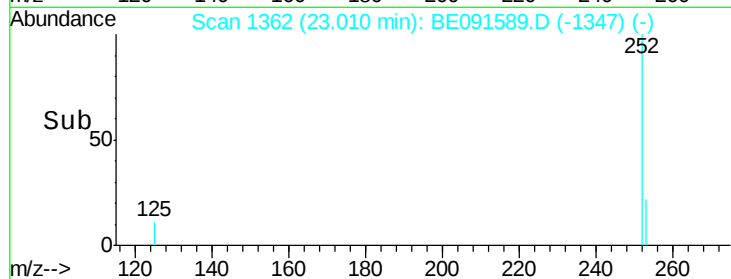
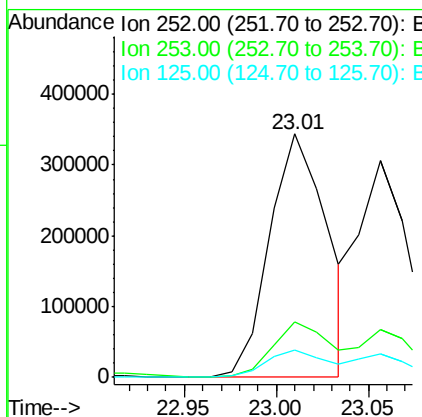
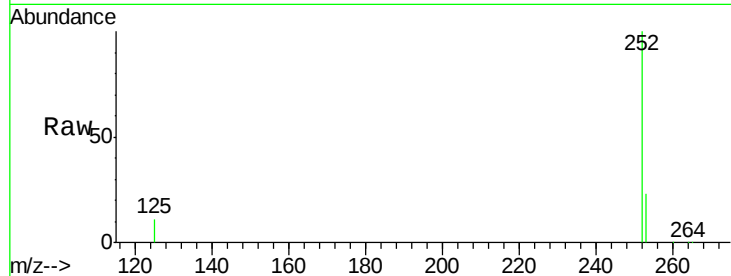
#29
Benzo(b)fluoranthene
Concen: 9.09 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.7	28.1
125	11.0	9.8	14.6

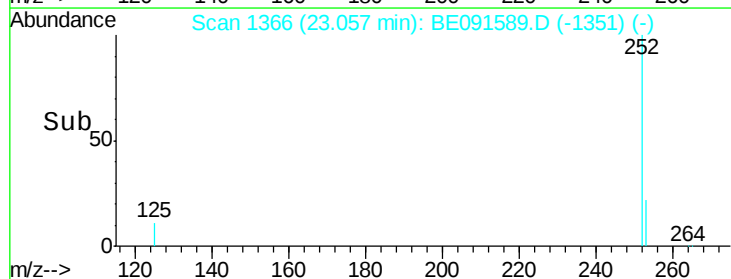
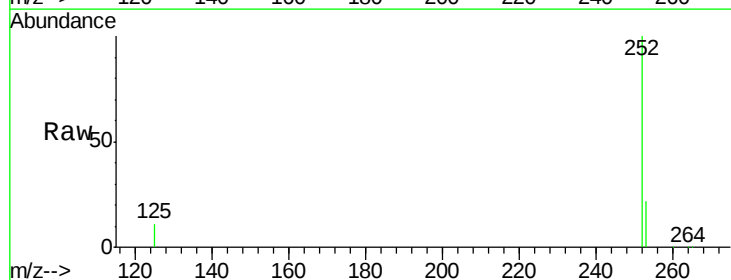
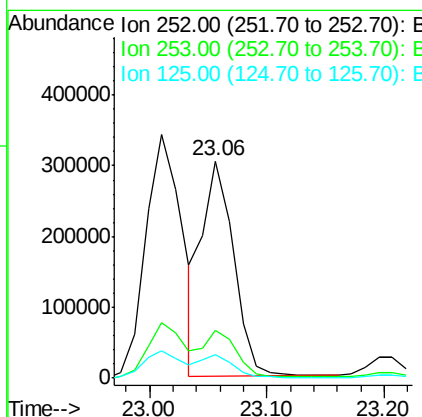
Manual Integrations
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#30
Benzo(k)fluoranthene
Concen: 7.19 ng
RT: 23.06 min Scan# 1366
Delta R.T. -0.02 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	20.2	30.4
125	11.0	9.4	14.2





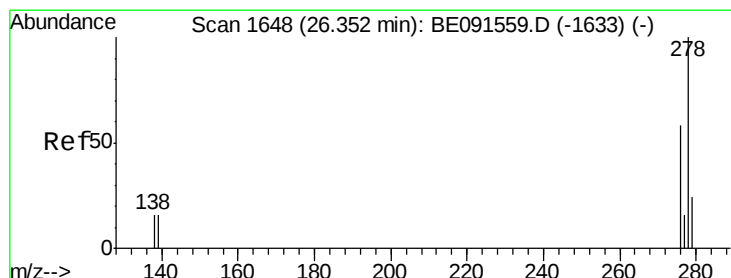
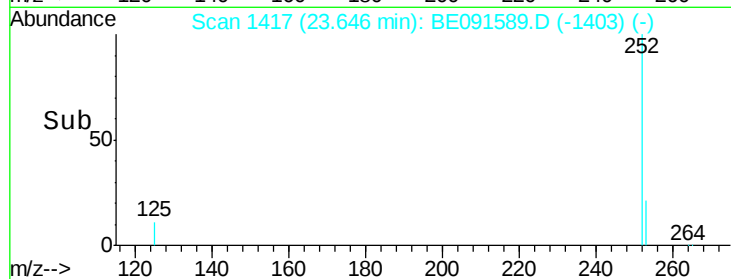
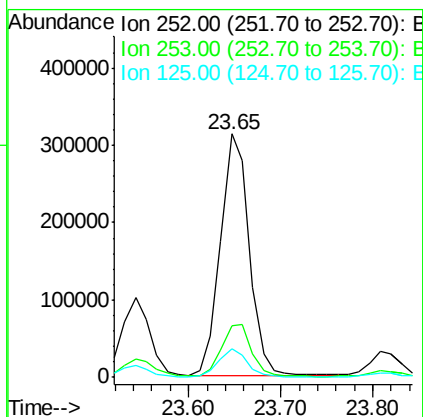
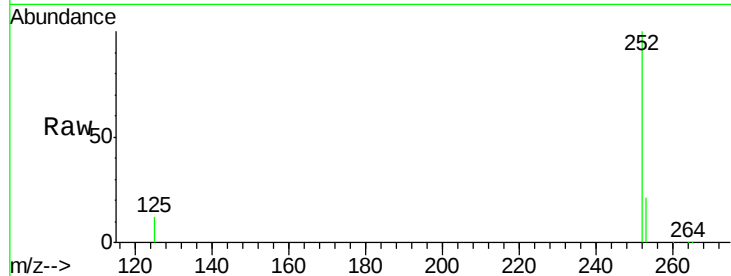
#31
Benzo(a)pyrene
Concen: 9.08 ng
RT: 23.65 min Scan# 1417
Delta R.T. -0.03 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Instrument :
BNA_E
ClientSampleId :
SB-4MSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	19.4	29.0
125	11.7	11.4	17.2

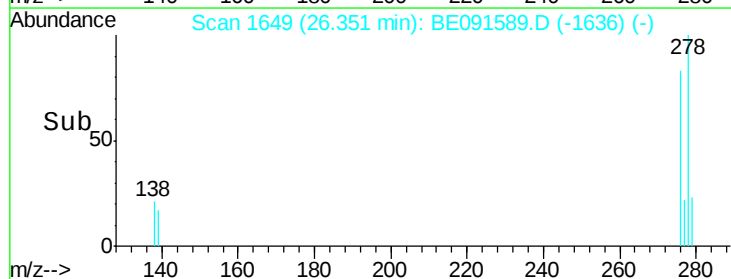
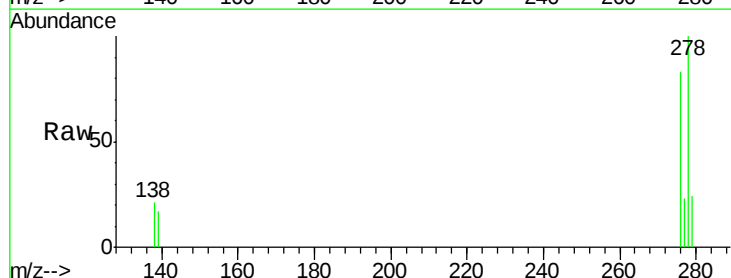
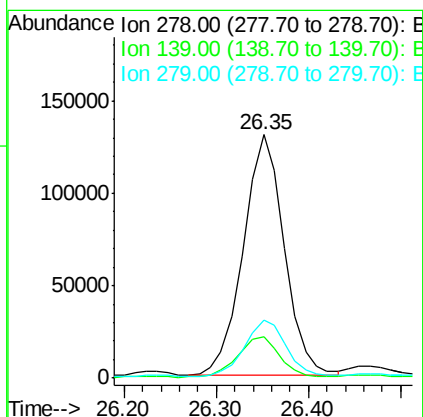
Manual Integrations
APPROVED

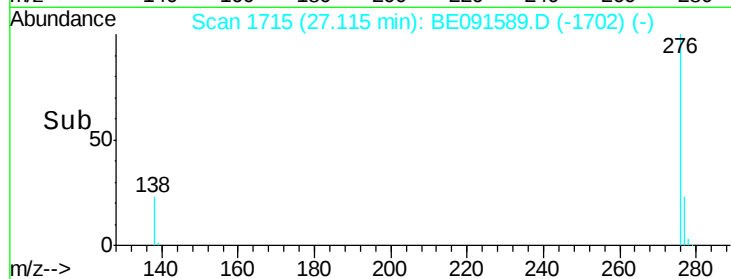
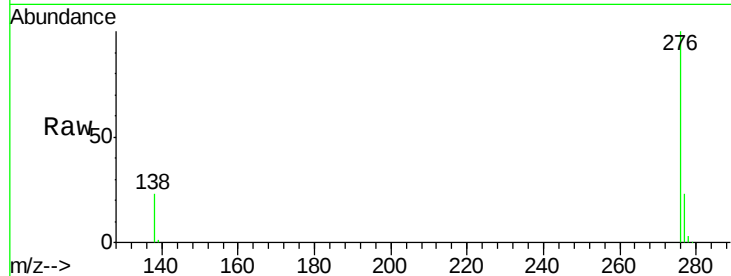
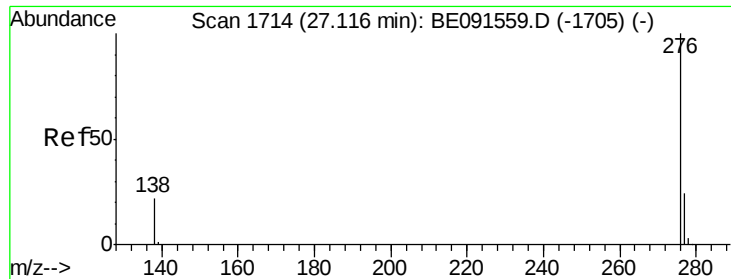
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#32
Dibenzo(a,h)anthracene
Concen: 5.52 ng
RT: 26.35 min Scan# 1649
Delta R.T. -0.05 min
Lab File: BE091589.D
Acq: 31 Mar 2016 19:15

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.0	14.2	21.4
279	23.7	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 7.65 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091589.D

Acq: 31 Mar 2016 19:15

Instrument :

BNA_E

ClientSampleId :

SB-4MSD

Tgt	Ion	276	Resp	574485
Ion	Ratio	Lower	Upper	
276	100			
277	23.4	19.4	29.2	
138	23.1	18.2	27.4	

Manual Integrations
APPROVED

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