

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
 Data File : BE092108.D
 Acq On : 2 Aug 2016 12:48
 Operator : UM/SJ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations
 APPROVED

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 8/3/2016 8:39:02 AM

Quant Time: Aug 02 13:53:33 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 13:43:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	12684	5.00	ng	0.00
6) Naphthalene-d8	10.99	136	57607	5.00	ng	0.00
10) Acenaphthene-d10	14.85	164	32639	5.00	ng	0.00
16) Phenanthrene-d10	17.58	188	70727	5.00	ng	0.00
22) Chrysene-d12	21.75	240	91971	5.00	ng	0.00
28) Perylene-d12	24.14	264	90401	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.69	112	1152	0.28	ng	0.00
5) Phenol-d6	7.35	99	1596	0.32	ng	0.00
7) Nitrobenzene-d5	9.35	82	1732	0.35	ng	0.00
11) 2,4,6-Tribromophenol	16.33	330	354m	0.15	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	3957	0.31	ng	0.00
24) Terphenyl-d14	20.21	244	4835	0.35	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.45	88	715	0.39	ng	98
3) n-Nitrosodimethylamine	3.81	42	769	0.33	ng	# 96
8) Naphthalene	11.03	128	5164	0.39	ng	98
9) 2-Methylnaphthalene	12.65	142	3184	0.36	ng	91
13) Acenaphthylene	14.56	152	21673	0.30	ng	98
14) Acenaphthene	14.90	154	3569	0.36	ng	# 98
15) Fluorene	15.89	166	4389	0.29	ng	100
17) Hexachlorobenzene	16.89	284	1397	0.59	ng	# 60
18) Pentachlorophenol	17.24	266	314	0.72	ng	95
19) Phenanthrene	17.60	178	7857	0.41	ng	99
20) Anthracene	17.70	178	7052	0.50	ng	100
21) Fluoranthene	19.63	202	33242	0.60	ng	98
23) Pvrene	19.99	202	35580	0.34	ng	99
25) Benzo(a)anthracene	21.72	228	37752	1.52	ng	# 92
26) Chrysene	21.77	228	38429	1.76	ng	# 84
27) Indeno(1,2,3-cd)pyrene	26.65	276	40691	0.42	ng	100
29) Benzo(b)fluoranthene	23.40	252	10080	0.40	ng	98
30) Benzo(k)fluoranthene	23.46	252	8605	0.34	ng	100
31) Benzo(a)pvrene	24.02	252	8735	0.38	ng	# 95
32) Dibenzo(a,h)anthracene	26.67	278	8188	0.38	ng	97
33) Benzo(g,h,i)perylene	27.42	276	35327	0.39	ng	97

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

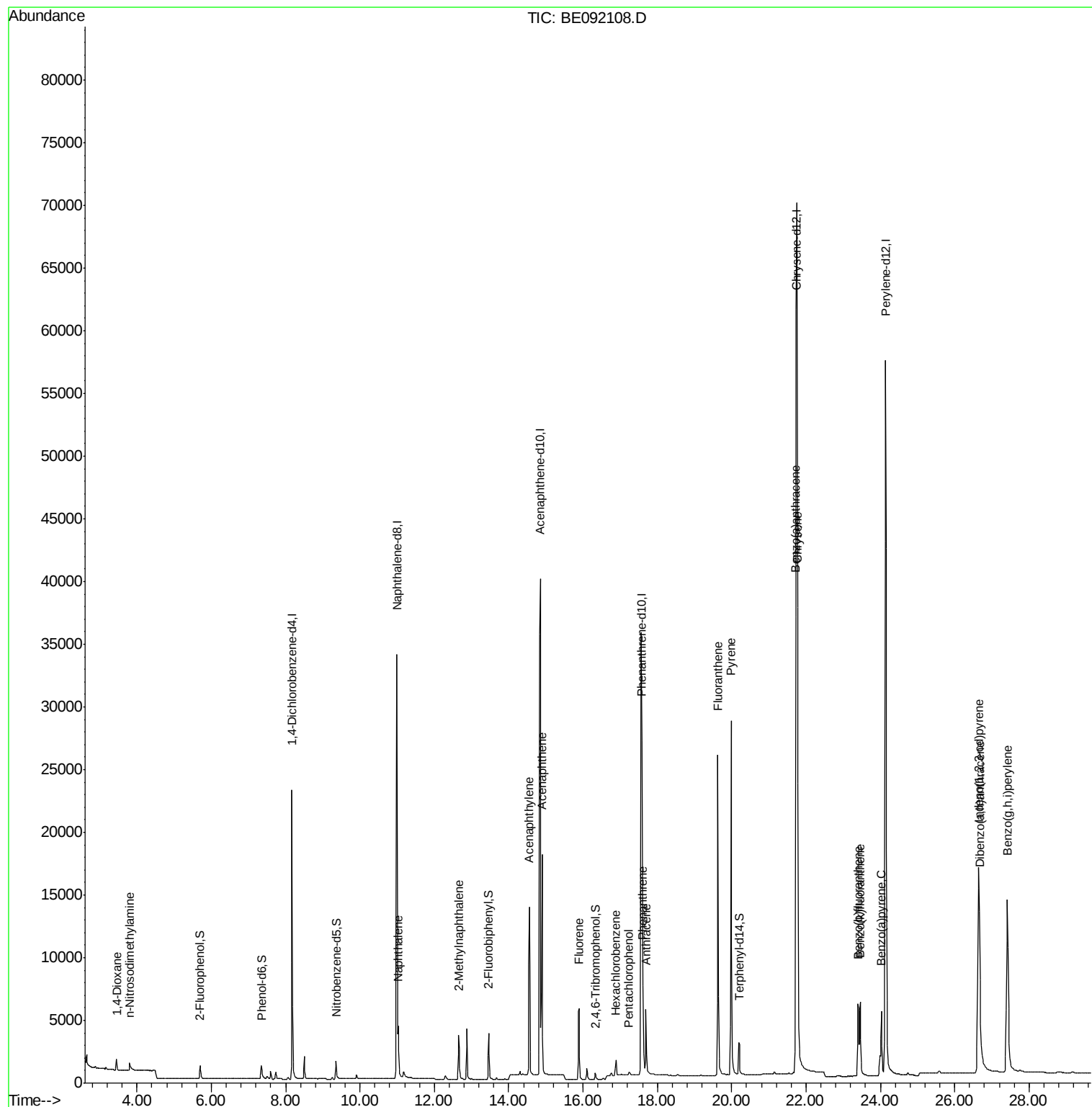
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
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ALS Vial : 5 Sample Multiplier: 1

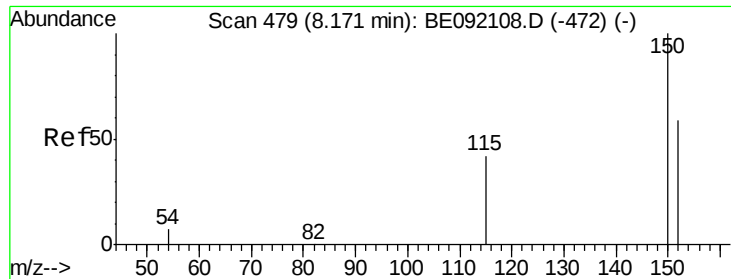
Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

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Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 13:43:25 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

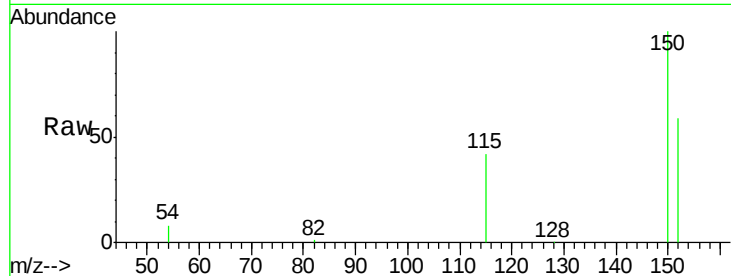
ClientSampled :

SSTDICCC0.4

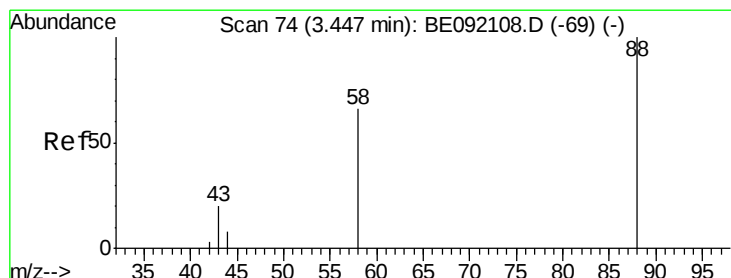
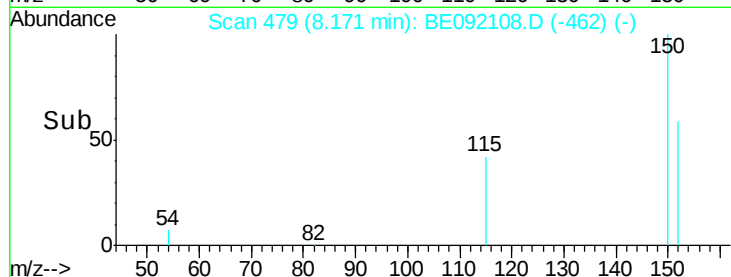
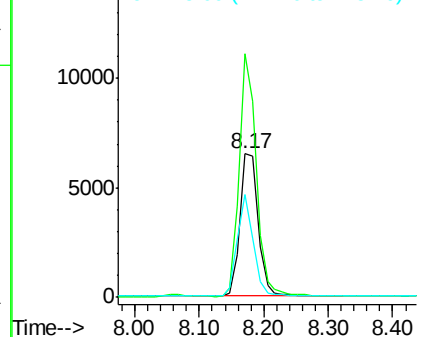
Tot Ion	Ratio	Lower	Upper
152	100		
150	170.1	106.0	159.0#
115	72.2	36.9	55.3#

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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



#2

1,4-Dioxane

Concen: 0.39 ng

RT: 3.45 min Scan# 74

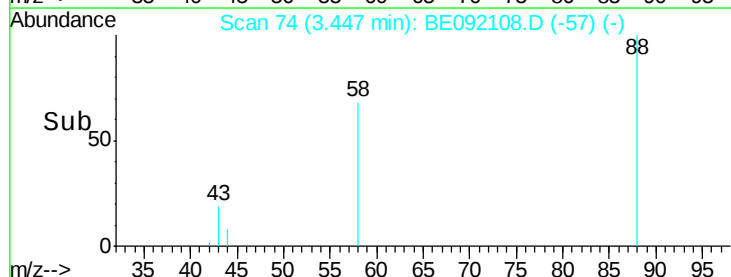
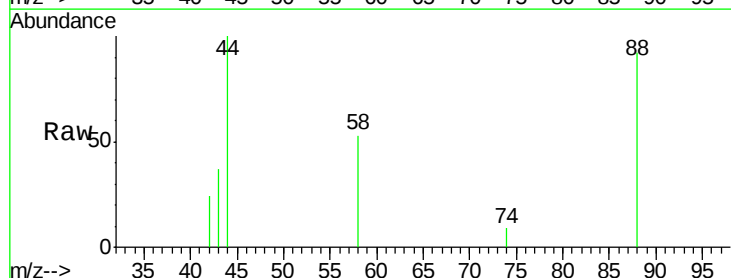
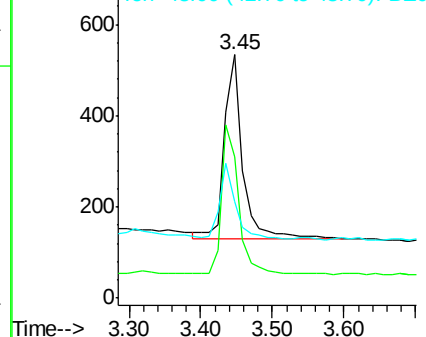
Delta R.T. 0.00 min

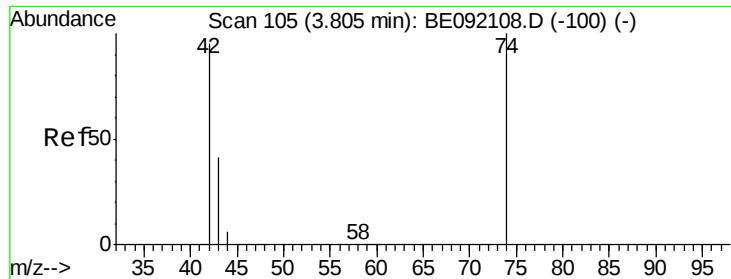
Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
88	100		
58	75.9	62.1	93.1
43	34.4	27.2	40.8

Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

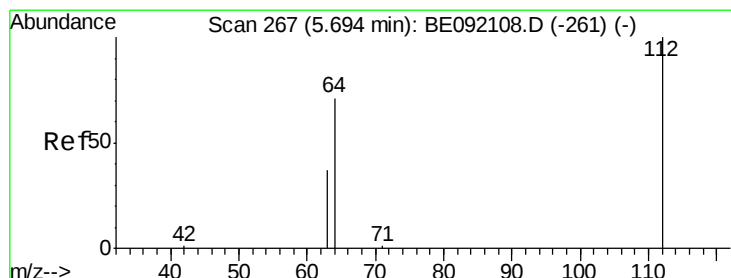
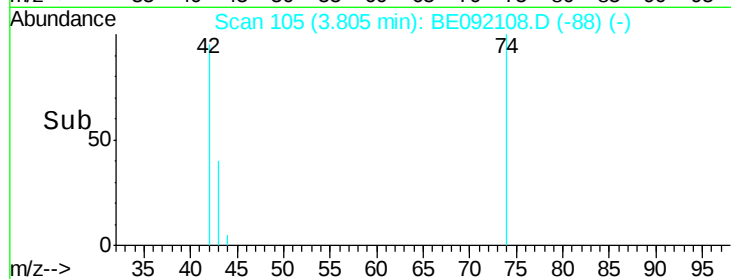
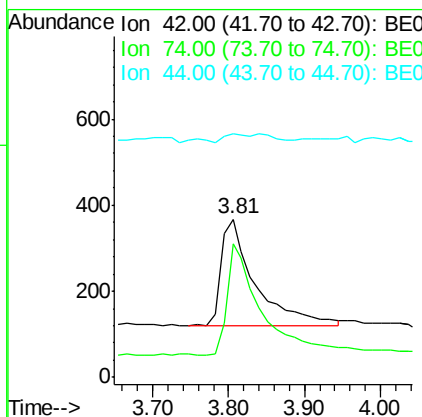
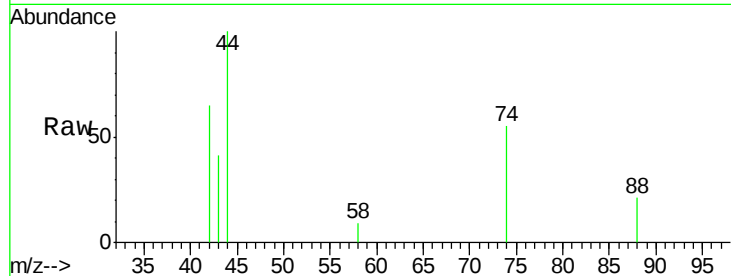
n-Nitrosodimethylamine
 Concen: 0.33 ng
 RT: 3.81 min Scan# 105
 Delta R.T. 0.00 min
 Lab File: BE092108.D
 Acq: 2 Aug 2016 12:48

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
42	100		
74	106.9	82.8	124.2
44	5.9	9.0	13.4#

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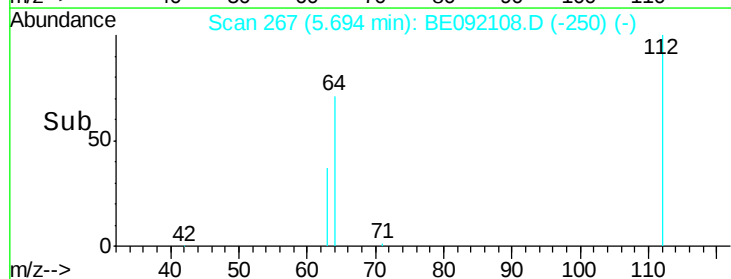
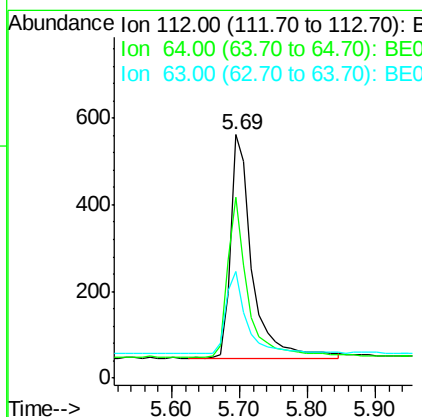
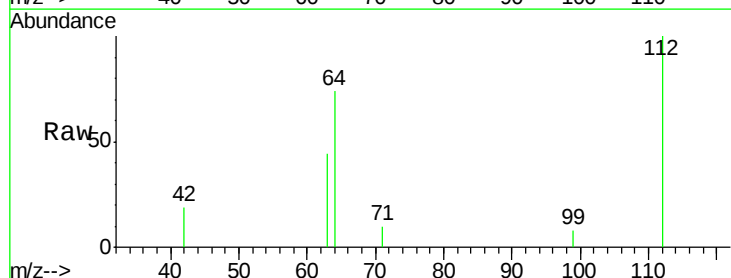
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#4

2-Fluorophenol
 Concen: 0.28 ng
 RT: 5.69 min Scan# 267
 Delta R.T. 0.00 min
 Lab File: BE092108.D
 Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.8	55.9	83.9
63	35.9	31.1	46.7





#5

Phenol-d6

Concen: 0.32 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

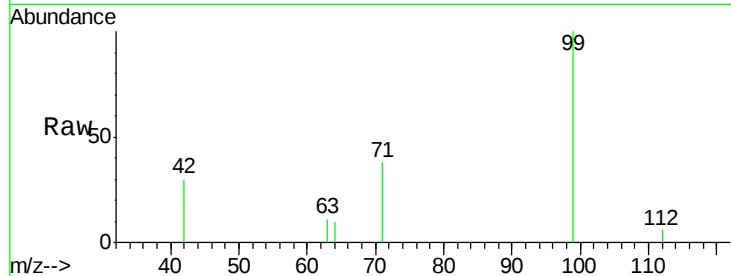
ClientSampled :

SSTDICCC0.4

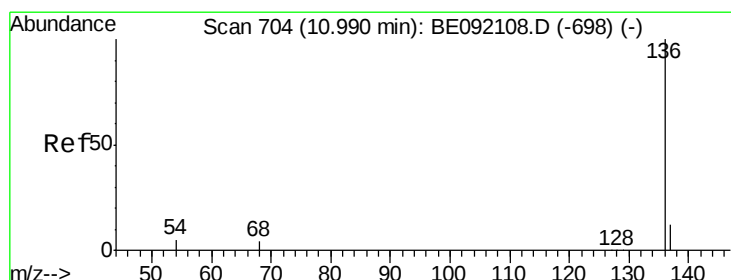
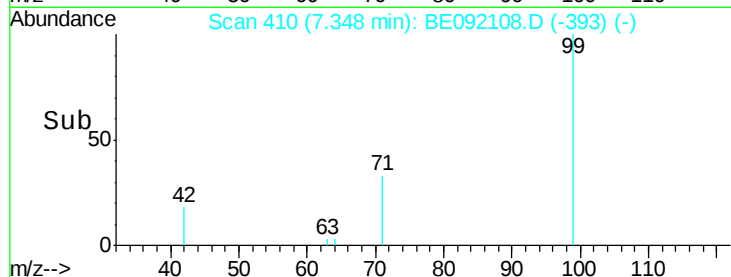
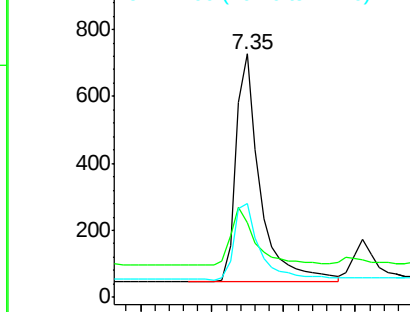
Tot Ion:	99	Resp:	1596
Ion	Ratio	Lower	Upper
99	100		
42	25.5	22.4	33.6
71	36.6	28.9	43.3

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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



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 704

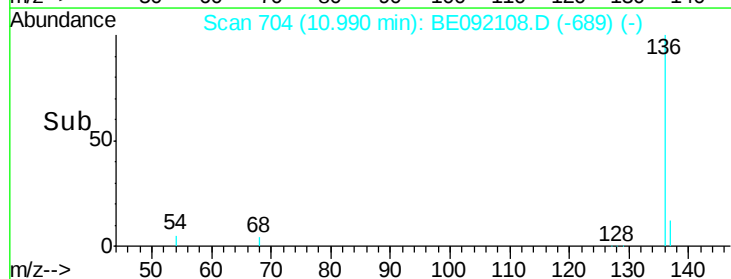
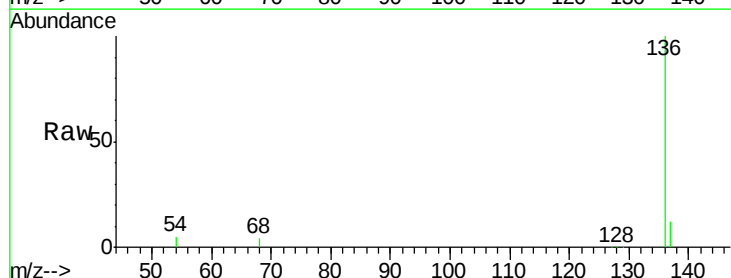
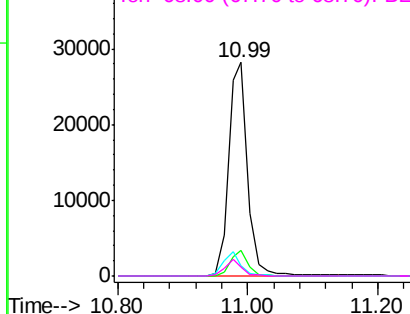
Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion:	136	Resp:	57607
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.1	13.7
54	4.9	2.7	4.1#
68	4.0	2.2	3.4#

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





#7

Nitrobenzene-d5

Concen: 0.35 ng

RT: 9.35 min Scan# 581

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

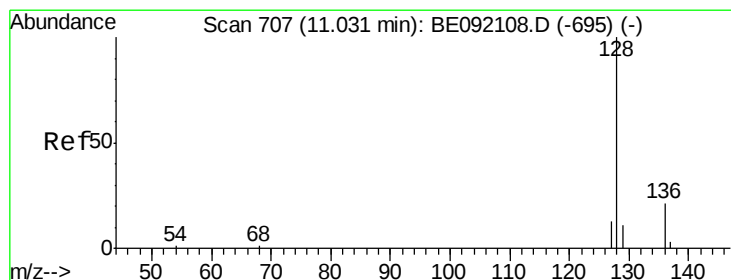
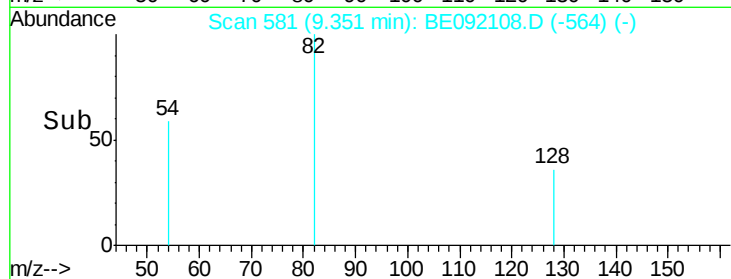
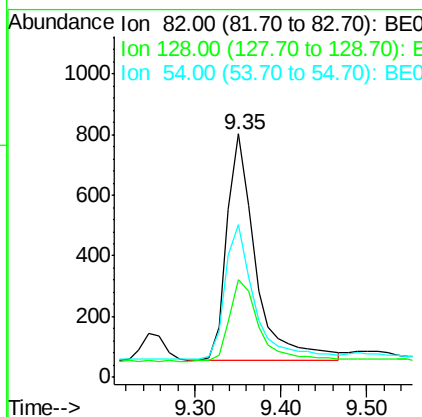
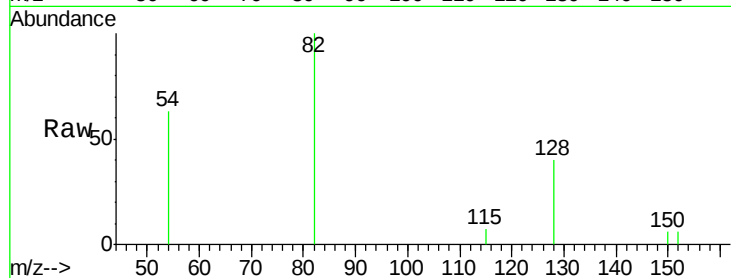
ClientSampled :

SSTDICCC0.4

Tot Ion:	82	Resp:	1732
Ion	Ratio	Lower	Upper
82	100		
128	40.0	33.0	49.4
54	62.6	42.6	63.8

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#8

Naphthalene

Concen: 0.39 ng

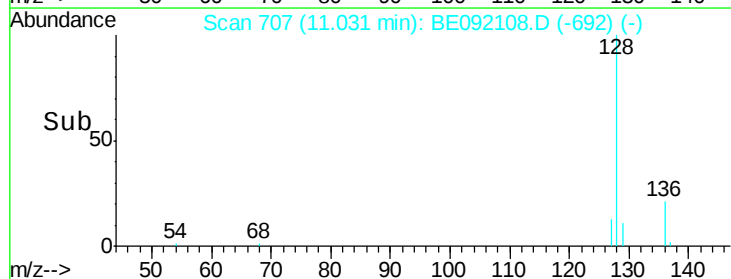
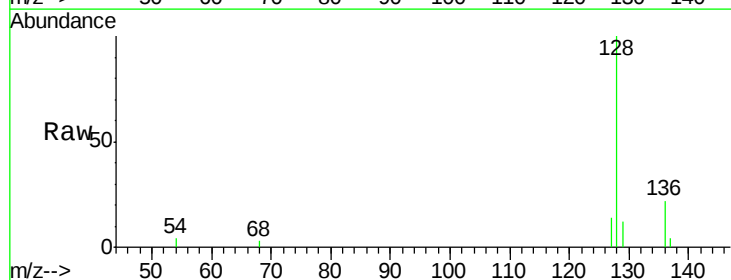
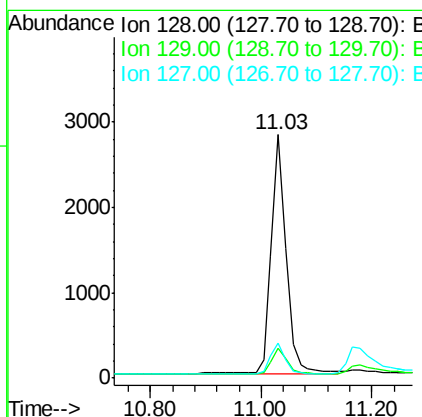
RT: 11.03 min Scan# 707

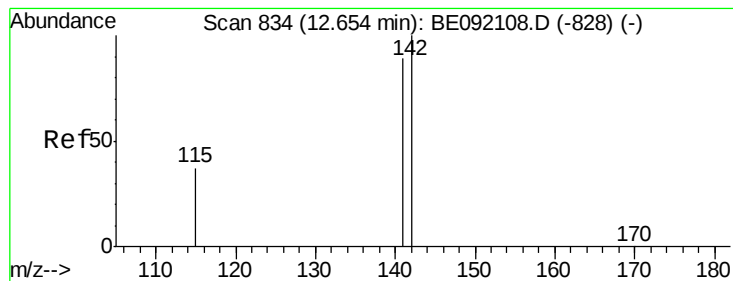
Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion:	128	Resp:	5164
Ion	Ratio	Lower	Upper
128	100		
129	12.3	11.1	16.7
127	14.1	11.3	16.9





#9

2-Methylnaphthalene

Concen: 0.36 ng

RT: 12.65 min Scan# 834

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

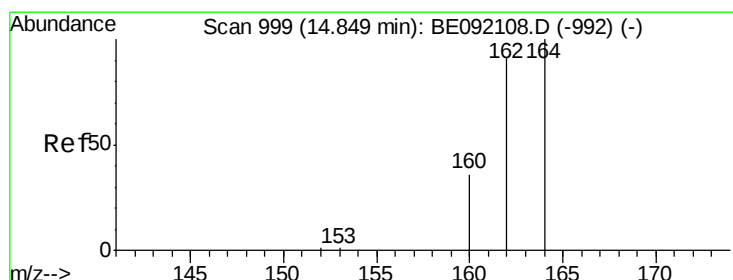
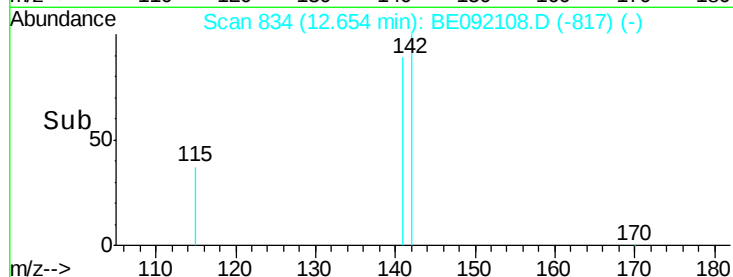
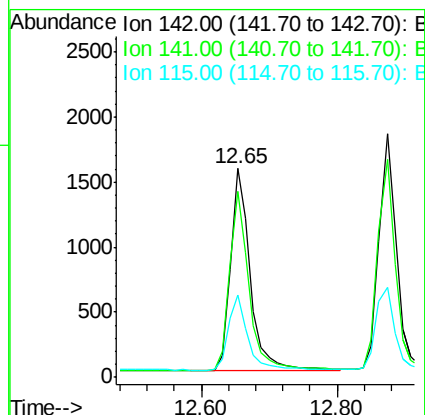
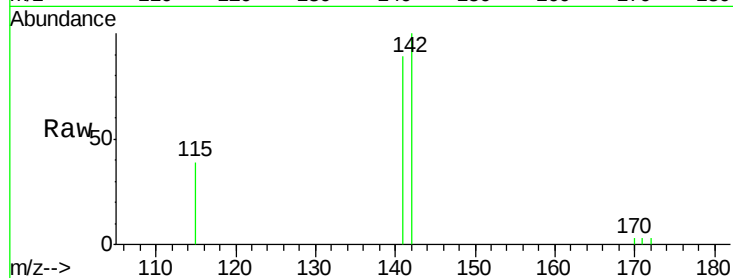
ClientSampled :

SSTDICCC0.4

Tot Ion:	142	Resp:	3184
Ion	Ratio	Lower	Upper
142	100		
141	89.4	65.1	97.7
115	39.2	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

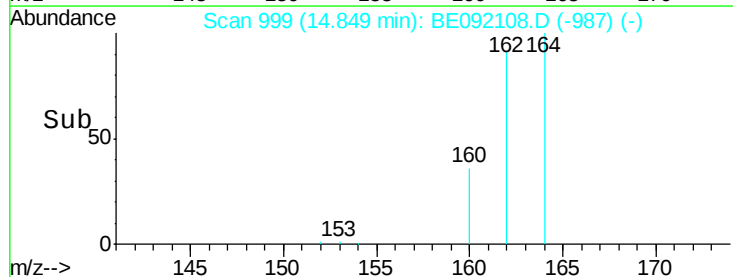
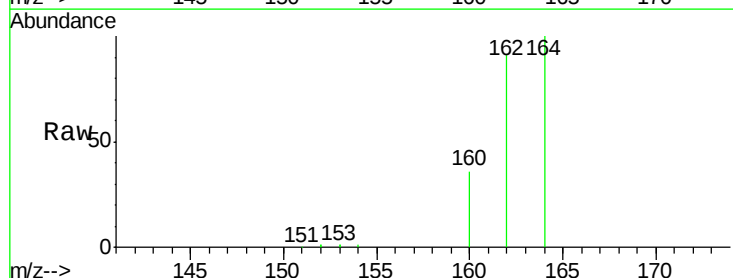
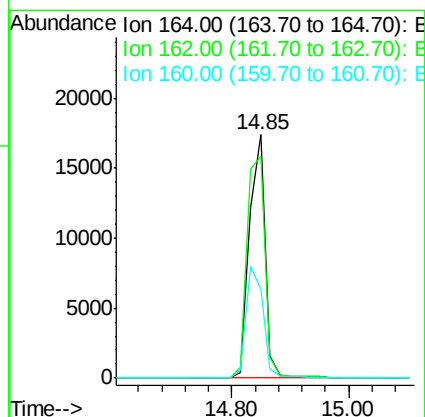
RT: 14.85 min Scan# 999

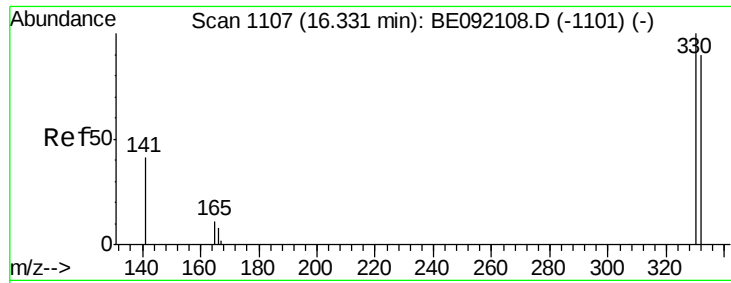
Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion:	164	Resp:	32639
Ion	Ratio	Lower	Upper
164	100		
162	91.2	69.5	104.3
160	36.4	27.6	41.4





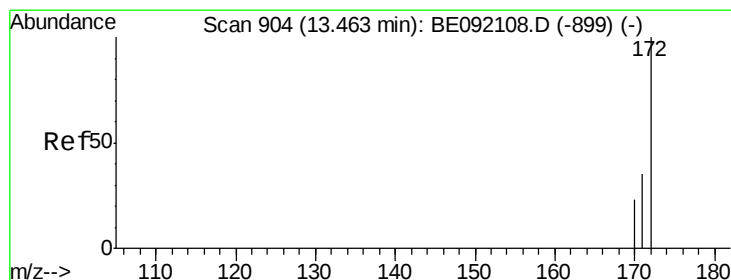
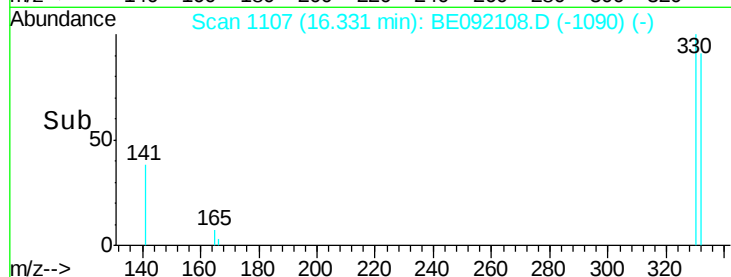
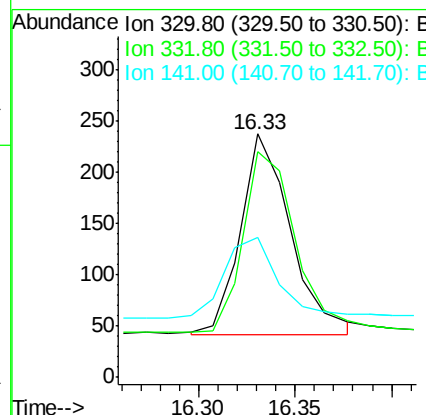
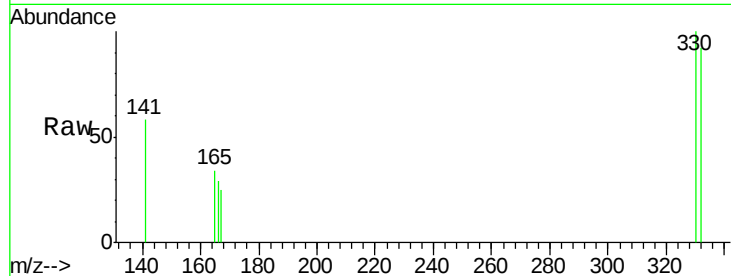
#11
 2,4,6-Tribromophenol
 Concen: 0.15 ng/ml
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092108.D
 Acq: 2 Aug 2016 12:48

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
330	100		
332	102.0	74.2	111.4
141	46.6	139.8	209.8

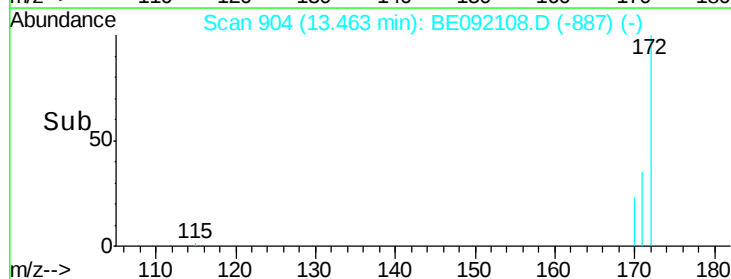
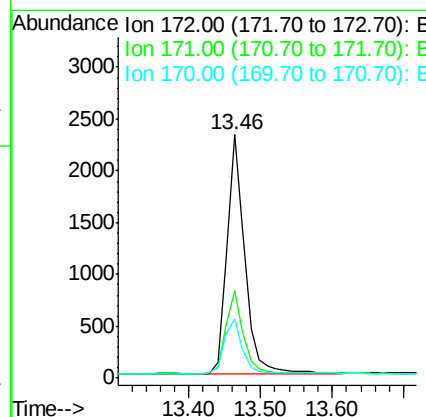
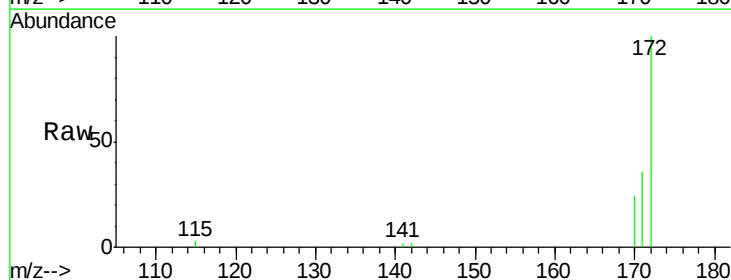
Manual Integrations
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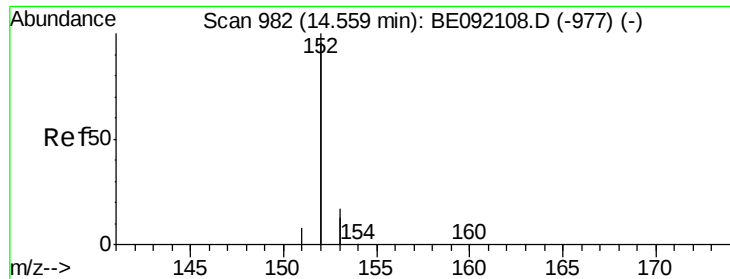
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#12
 2-Fluorobiphenyl
 Concen: 0.31 ng
 RT: 13.46 min Scan# 904
 Delta R.T. 0.00 min
 Lab File: BE092108.D
 Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	30.3	45.5
170	24.3	21.6	32.4





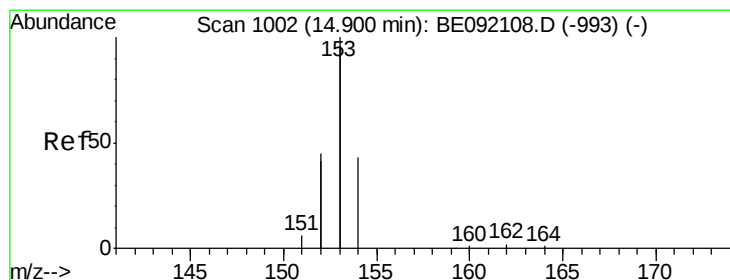
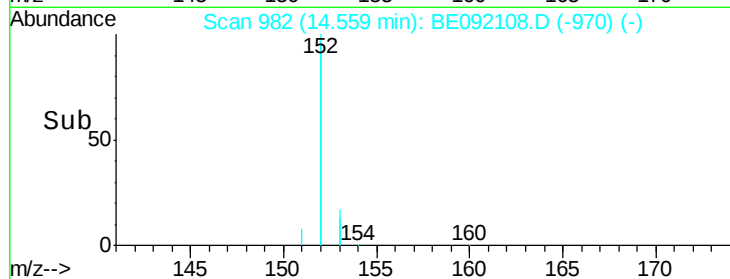
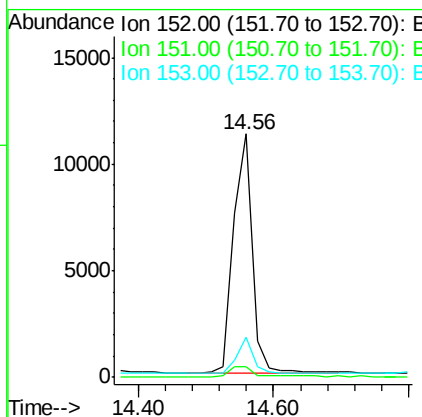
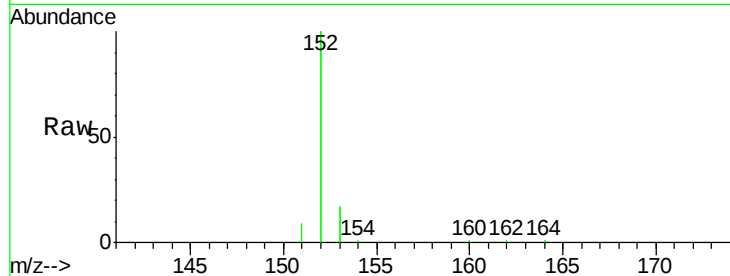
#13
Acenaphthylene
Concen: 0.30 ng
RT: 14.56 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	4.0	6.0
153	13.0	9.6	14.4

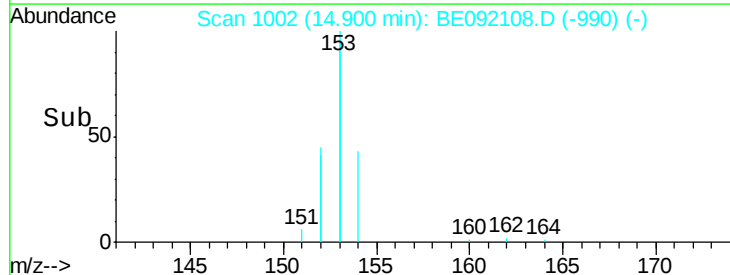
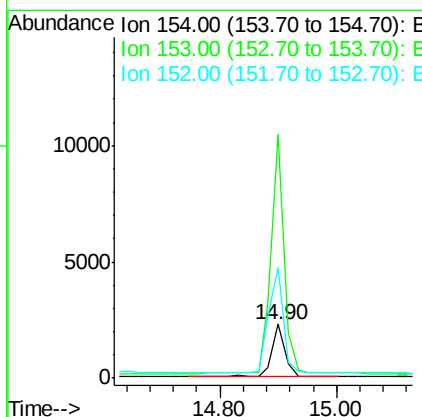
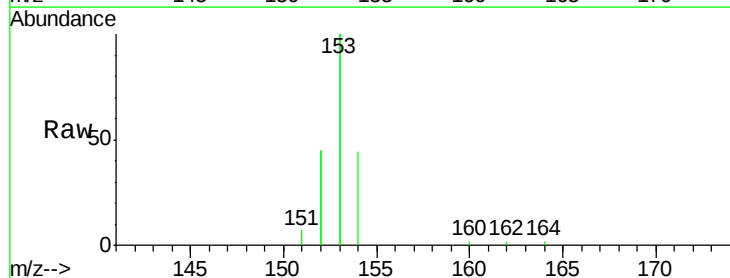
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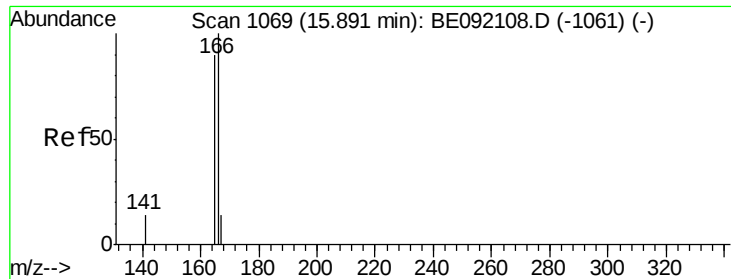
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#14
Acenaphthene
Concen: 0.36 ng
RT: 14.90 min Scan# 1002
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	437.4	345.1	517.7
152	220.4	0.0	0.0#





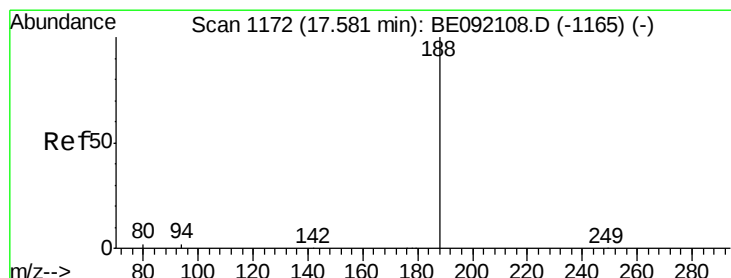
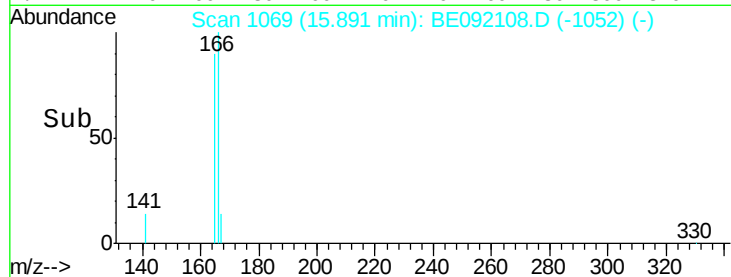
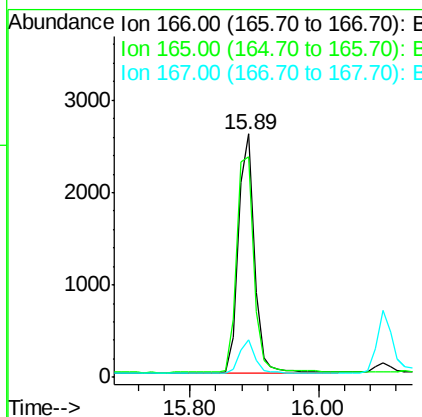
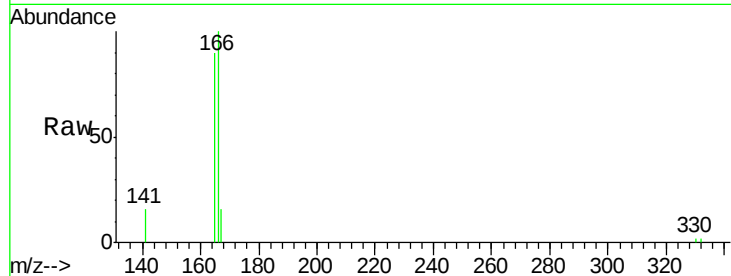
#15
Fluorene
Concen: 0.29 ng
RT: 15.89 min Scan# 1069
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.6	118.0
167	13.6	11.1	16.7

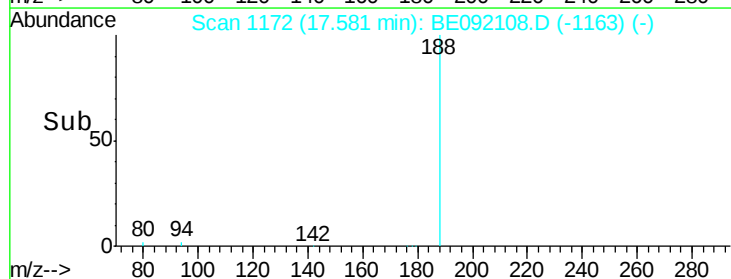
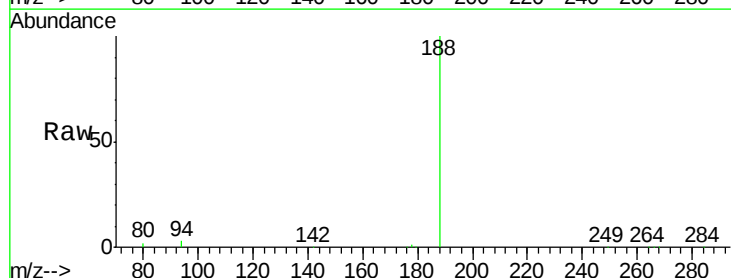
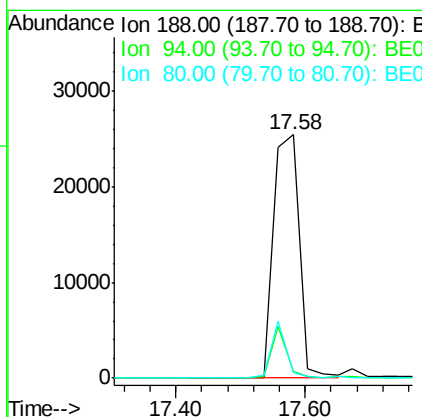
Manual Integrations
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#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.58 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	2.6	3.9	5.9#
80	2.0	3.4	5.0#





#17

Hexachlorobenzene

Concen: 0.59 ng

RT: 16.89 min Scan# 1142

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

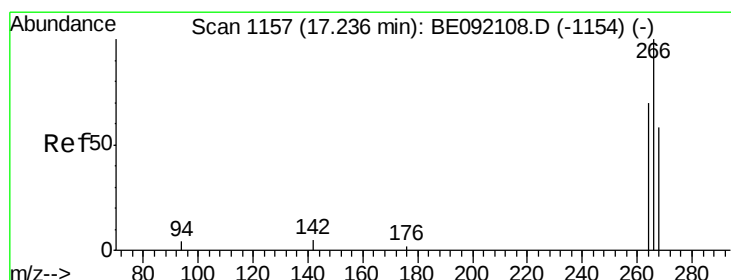
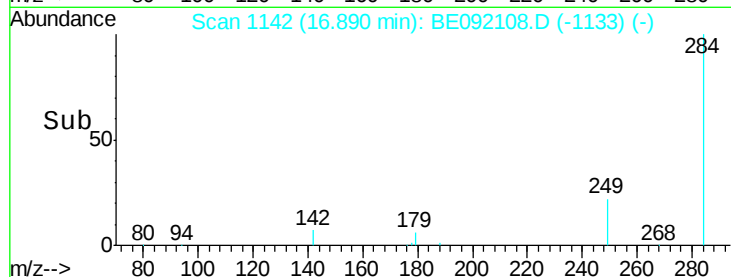
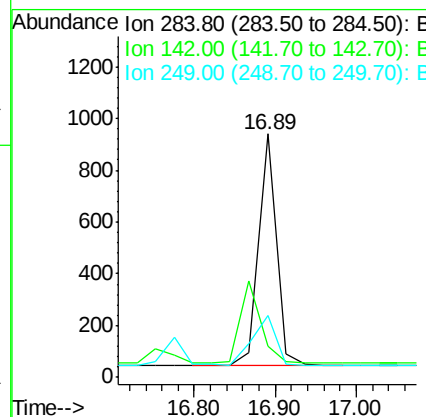
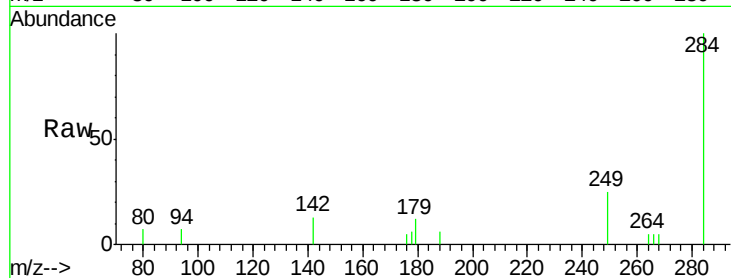
ClientSampleId :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	33.3	49.9#
249	28.3	25.4	38.0

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#18

Pentachlorophenol

Concen: 0.72 ng

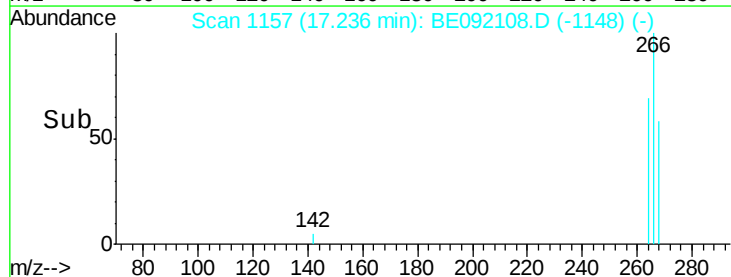
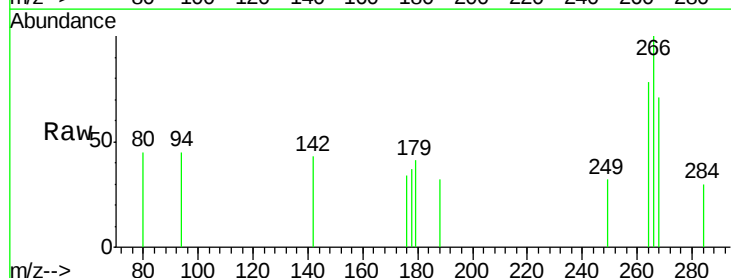
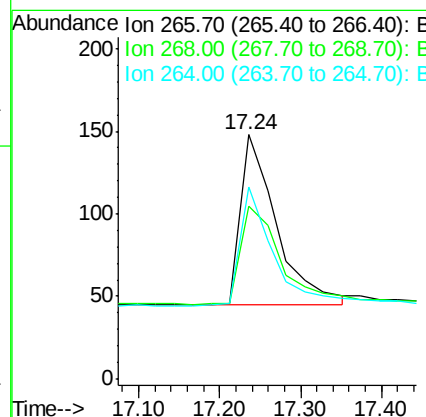
RT: 17.24 min Scan# 1157

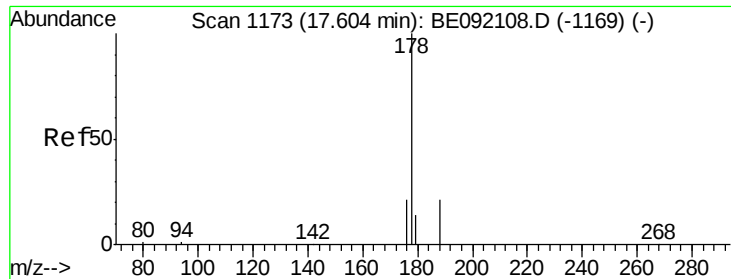
Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
266	100		
268	70.9	62.7	94.1
264	78.4	63.5	95.3





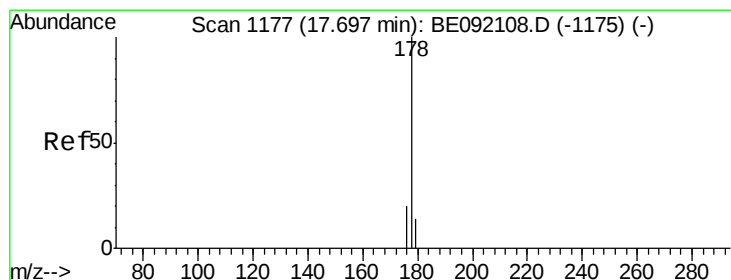
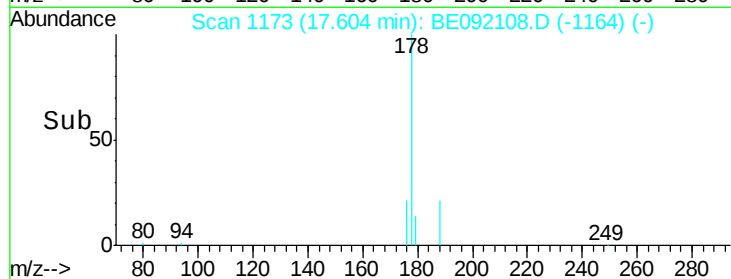
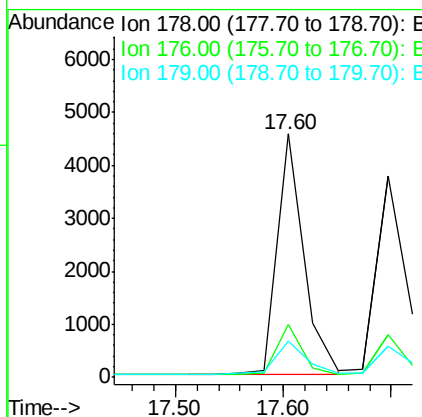
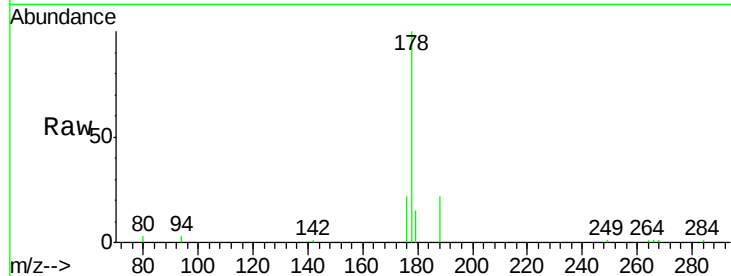
#19
Phenanthrene
Concen: 0.41 ng
RT: 17.60 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.0
179	15.6	12.7	19.1

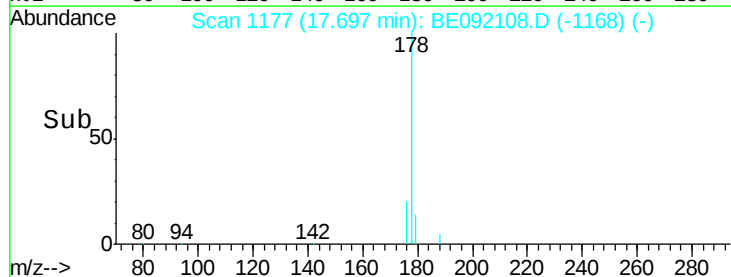
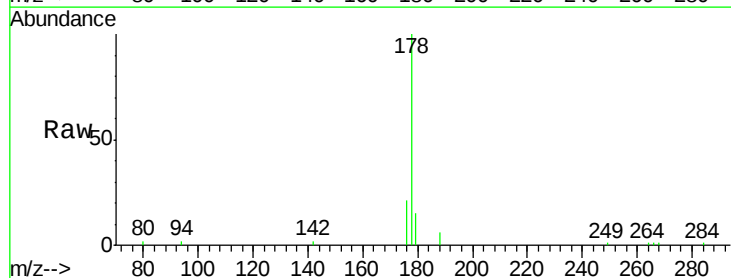
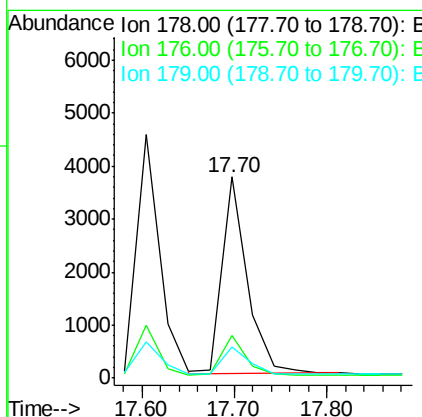
Manual Integrations
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#20
Anthracene
Concen: 0.50 ng
RT: 17.70 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	14.9	12.2	18.4





#21

Fluoranthene

Concen: 0.60 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

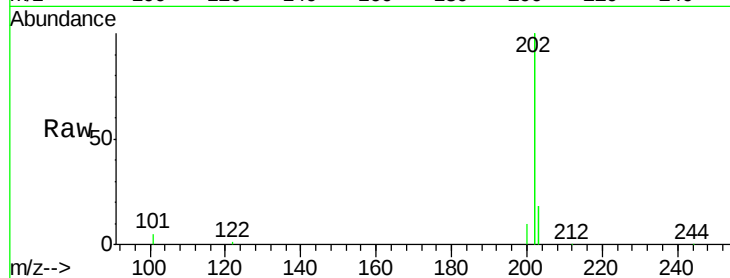
ClientSampleId :

SSTDICCC0.4

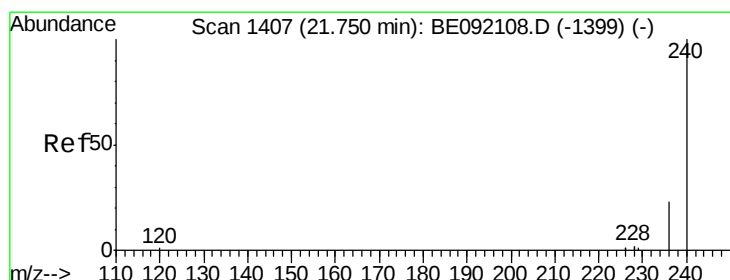
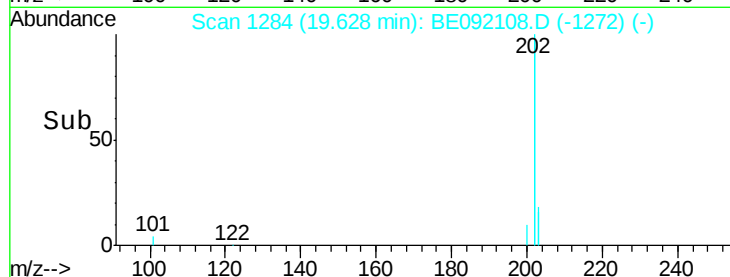
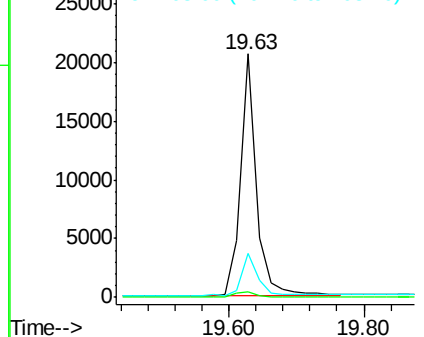
Tot Ion:	202	Resp:	33242
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.2
203	17.4	13.0	19.4

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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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

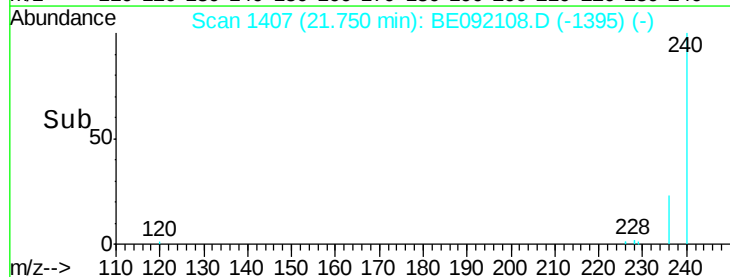
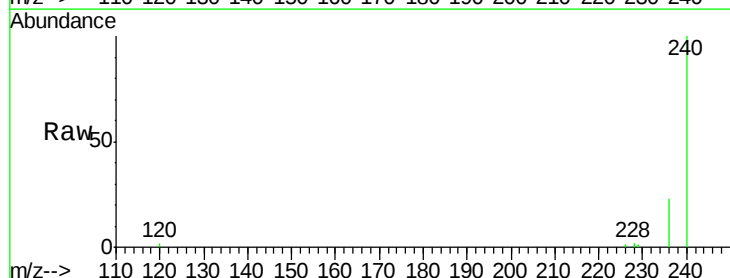
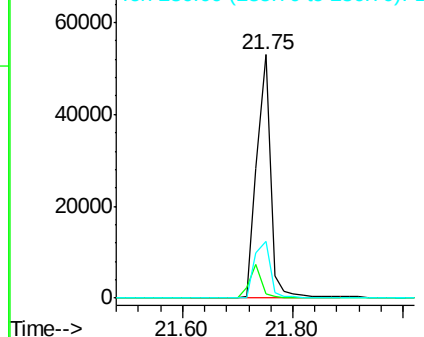
Delta R.T. 0.00 min

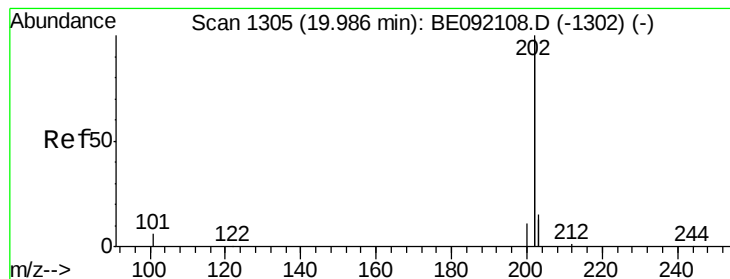
Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion:	240	Resp:	91971
Ion Ratio	Lower	Upper	
240	100		
120	1.5	0.6	1.0#
236	23.2	18.2	27.4

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





#23

Pvrene

Concen: 0.34 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

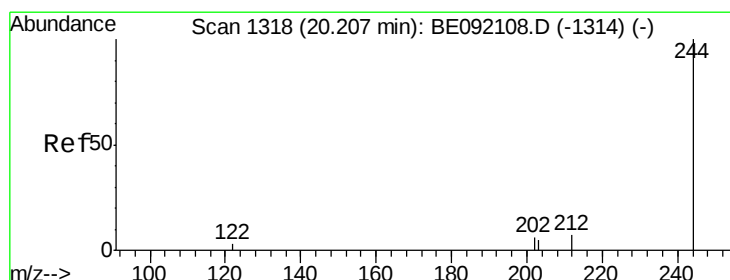
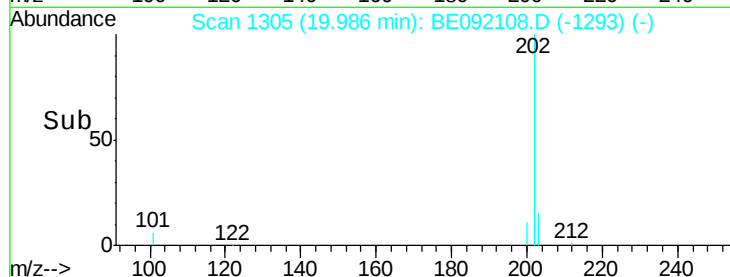
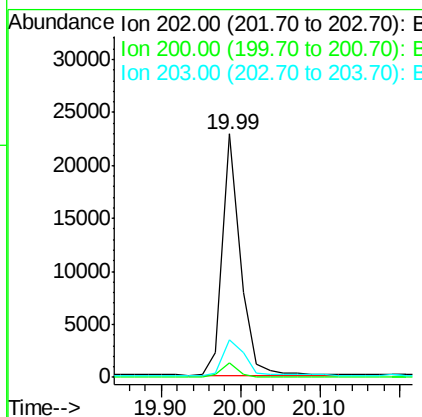
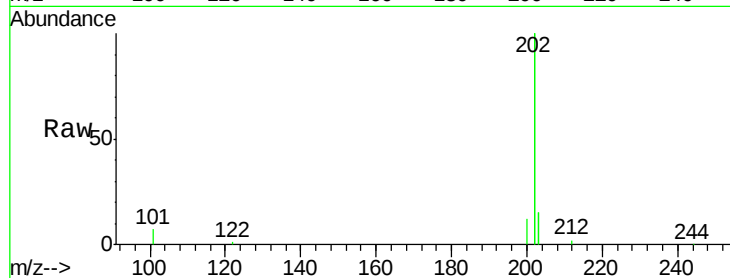
ClientSampleId :

SSTDICCC0.4

Tot Ion:	202	Resp:	35580
Ion Ratio	Lower	Upper	
202	100		
200	5.4	4.4	6.6
203	17.5	13.4	20.0

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#24

Terphenyl-d14

Concen: 0.35 ng

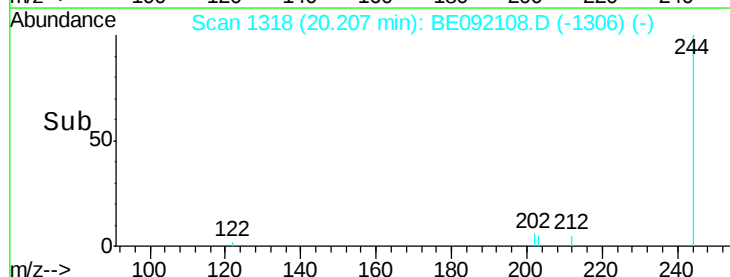
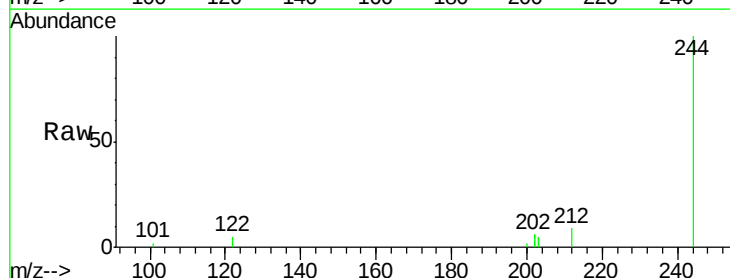
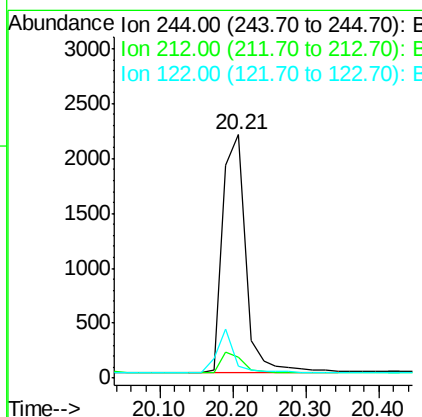
RT: 20.21 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Tgt Ion:	244	Resp:	4835
Ion Ratio	Lower	Upper	
244	100		
212	8.8	9.1	13.7#
122	4.8	11.0	16.4#





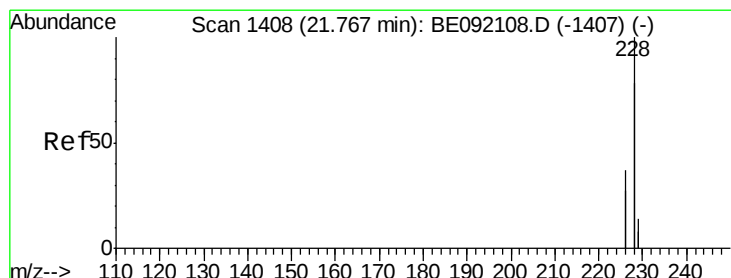
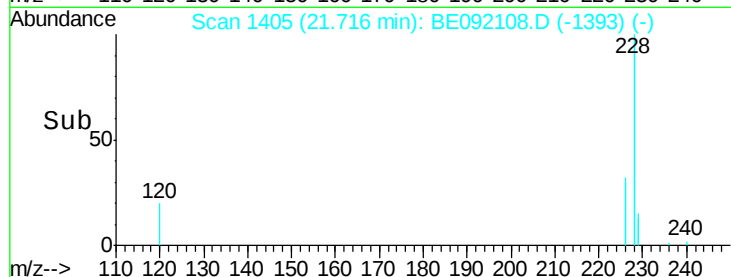
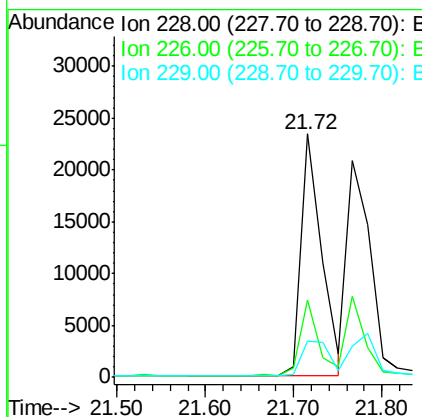
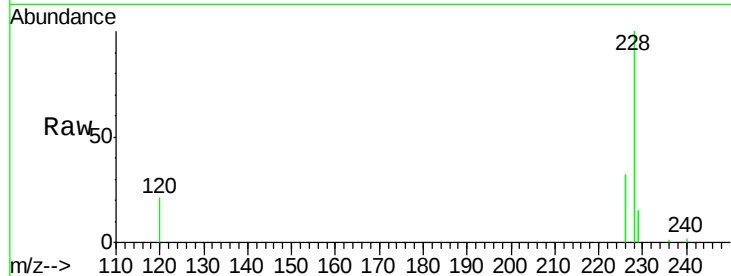
#25
Benzo(a)anthracene
Concen: 1.52 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	22.1	33.1
229	14.7	15.1	22.7#

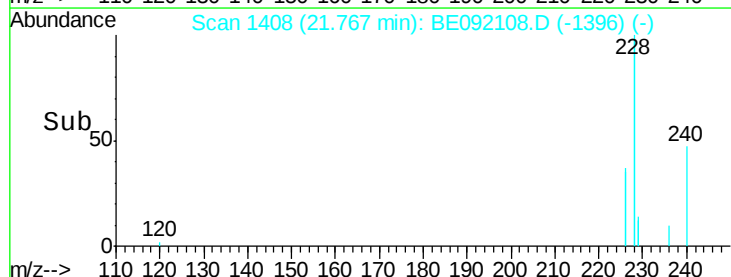
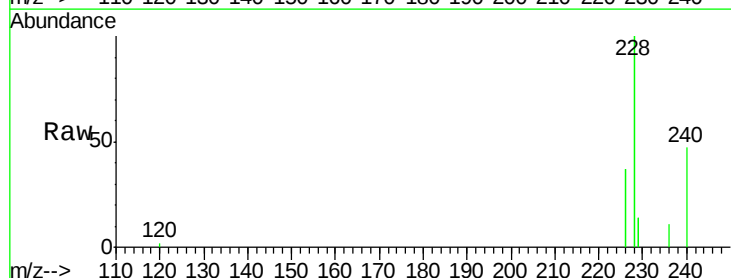
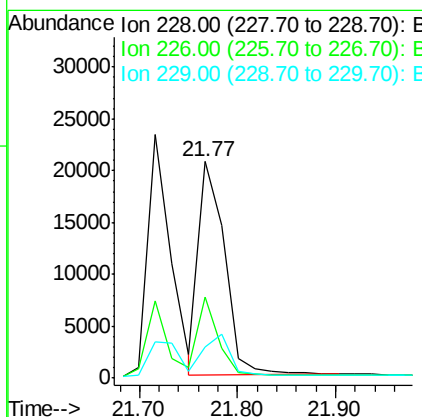
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#26
Chrysene
Concen: 1.76 ng
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.1	22.3	33.5#
229	14.4	16.9	25.3#





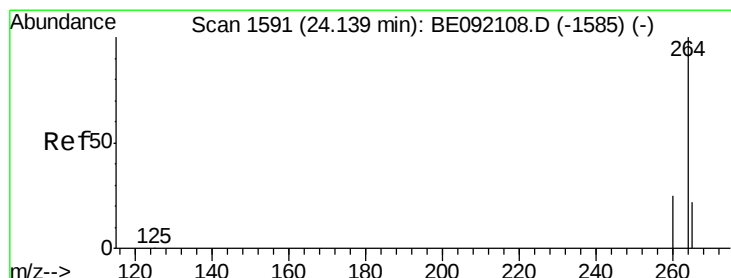
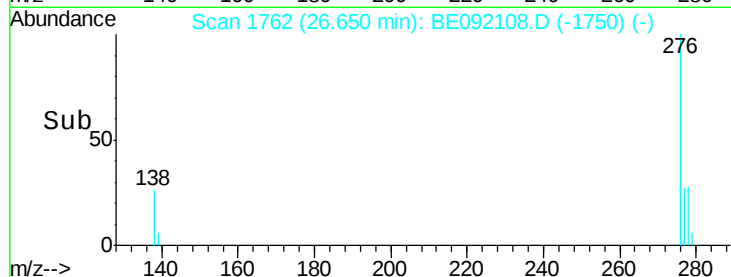
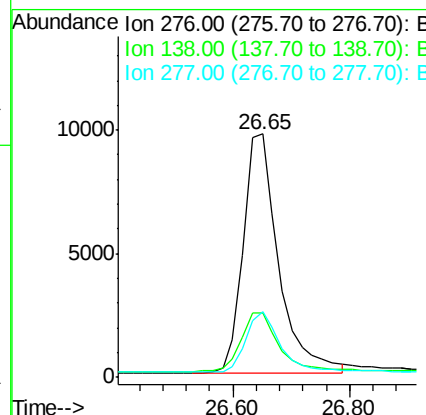
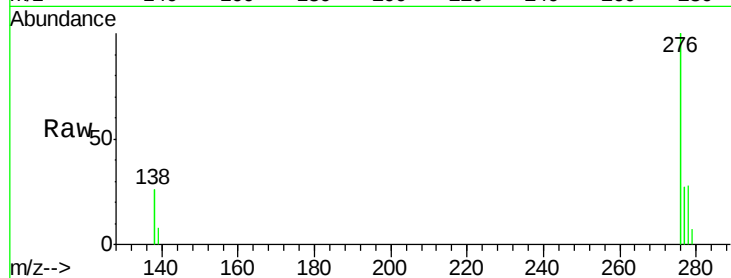
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.42 ng
RT: 26.65 min Scan# 1762
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Instrument :
BNA_E
ClientSampled :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.5	21.2	31.8
277	24.9	19.8	29.8

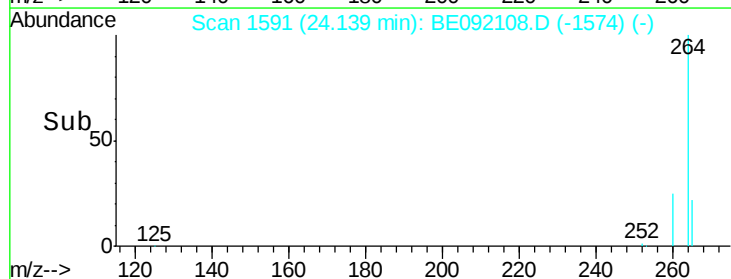
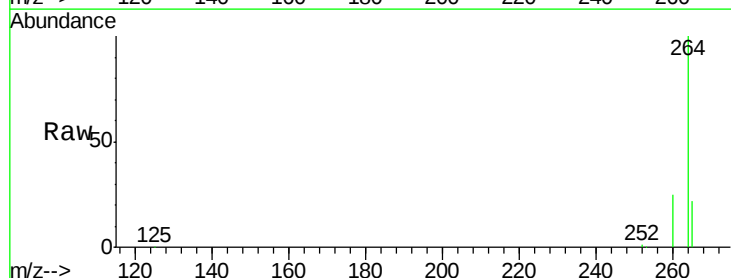
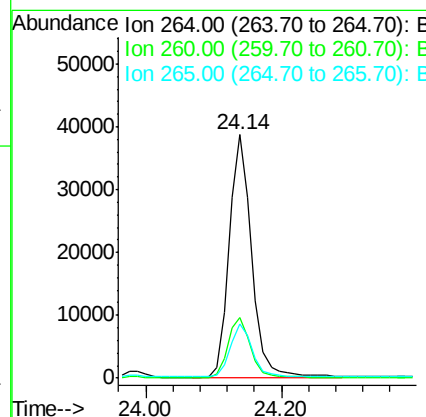
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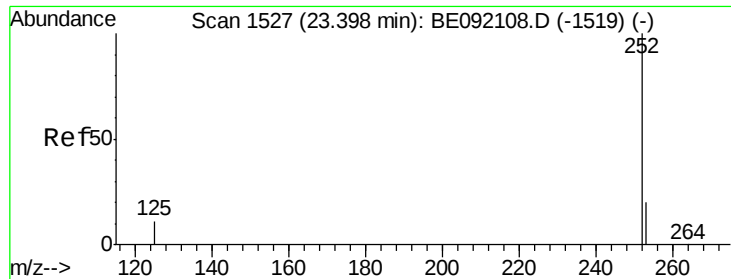
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#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	20.8	31.2
265	22.2	16.6	25.0





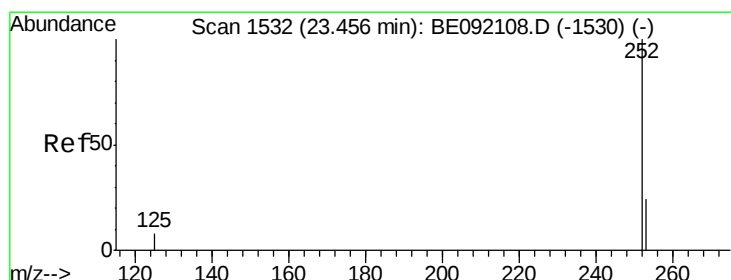
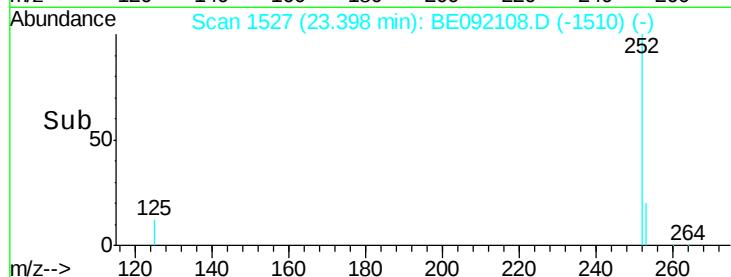
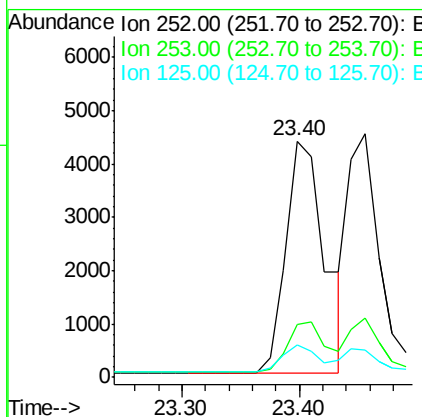
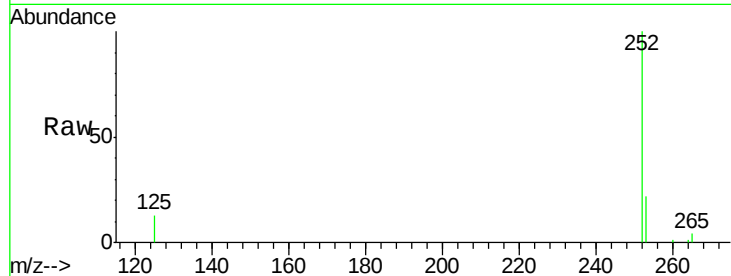
#29
Benzo(b)fluoranthene
Concen: 0.40 ng
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.0
125	13.5	10.2	15.2

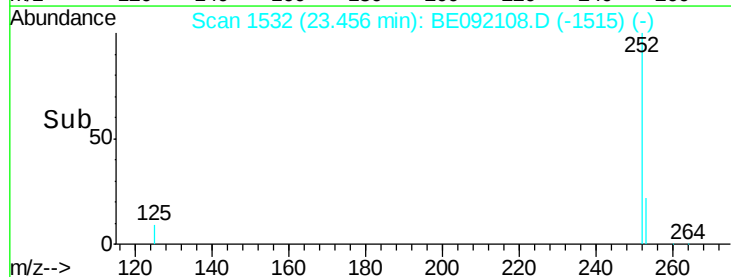
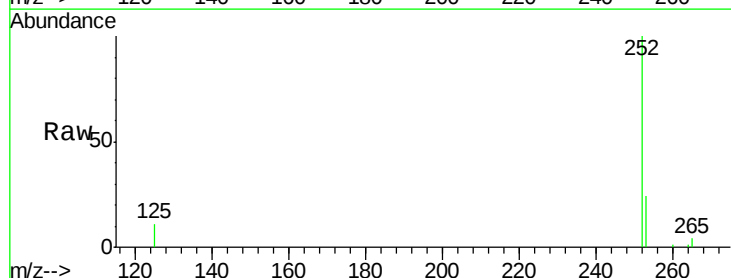
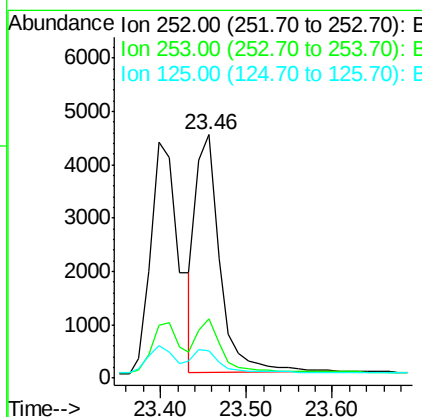
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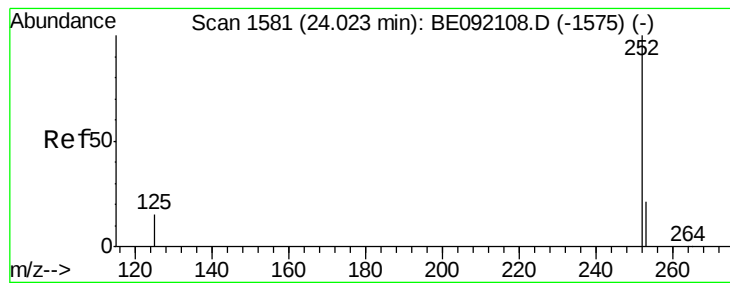
Sohil
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#30
Benzo(k)fluoranthene
Concen: 0.34 ng
RT: 23.46 min Scan# 1532
Delta R.T. 0.00 min
Lab File: BE092108.D
Acq: 2 Aug 2016 12:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.4	29.0
125	11.3	8.9	13.3





#31

Benzo(a)pyrene

Concen: 0.38 ng

RT: 24.02 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

Instrument :

BNA_E

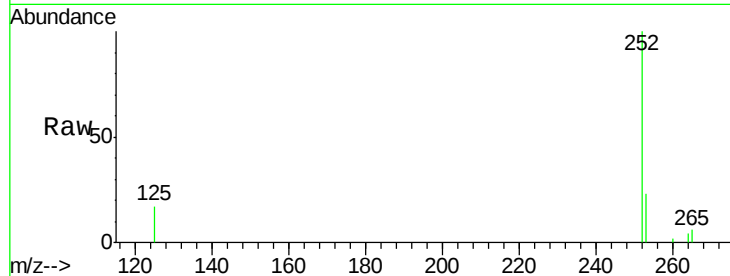
ClientSampled :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	19.8	29.8
125	16.7	10.4	15.6

Manual Integrations
APPROVED

Sohil
8/3/2016 8:39:02 AM

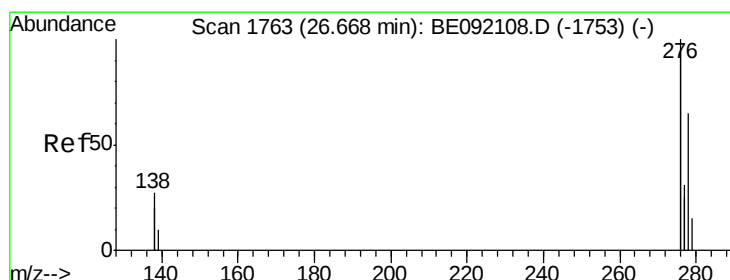
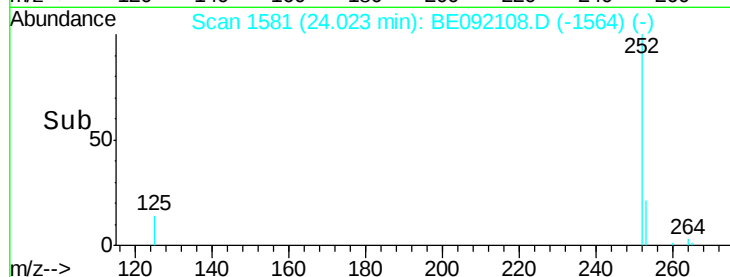
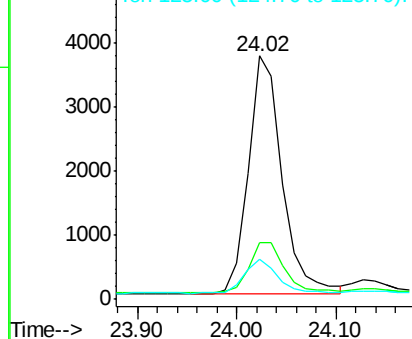


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#32

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 26.67 min Scan# 1763

Delta R.T. 0.00 min

Lab File: BE092108.D

Acq: 2 Aug 2016 12:48

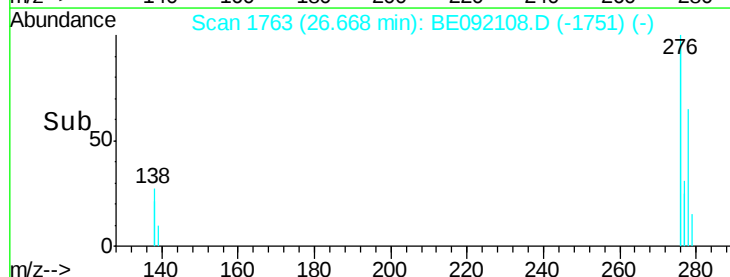
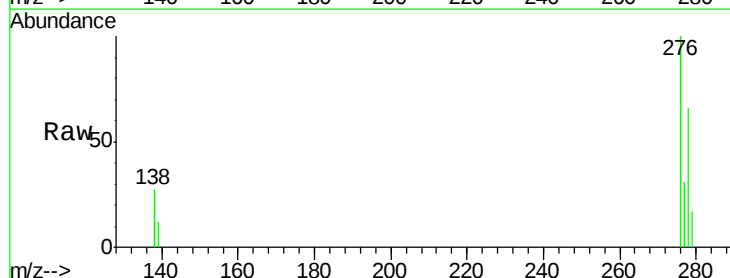
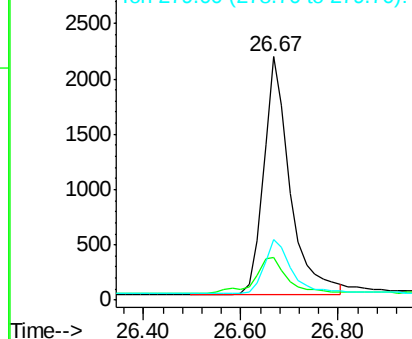
Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	16.7	25.1
279	25.1	20.3	30.5

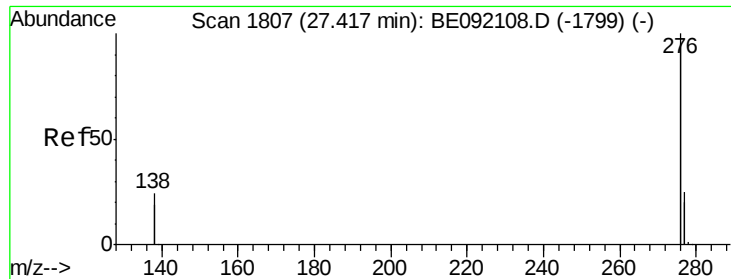
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#33
 Benzo(a,h,i)perylene
 Concen: 0.39 ng
 RT: 27.42 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: BE092108.D
 Acq: 2 Aug 2016 12:48

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.5	29.3
138	23.6	20.8	31.2

Manual Integrations
 APPROVED

Sohil
 8/3/2016 8:39:02 AM

