

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\
 Data File : BM004458.D
 Acq On : 28 Feb 2016 19:43
 Operator : SJ/UM
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

UMANGI
 2/29/2016 2:48:55 PM

Quant Time: Feb 29 03:38:13 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM022816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 02:56:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	13734	5.00	ng	0.00
7) Naphthalene-d8	10.38	136	48412	5.00	ng	0.00
12) Acenaphthene-d10	14.25	164	31892	5.00	ng	0.00
15) Phenanthrene-d10	17.03	188	40553	5.00	ng	0.00
19) Chrysene-d12	21.24	240	59731	5.00	ng	0.00
28) Perylene-d12	23.47	264	45654	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	14832	5.17	ng	0.00
5) Phenol-d6	6.80	99	19601	5.74	ng	-0.03
8) Nitrobenzene-d5	8.76	82	14080	6.48	ng	-0.02
13) 2,4,6-Tribromophenol	15.78	330	7812	8.22	ng	0.00
14) 2-Fluorobiphenyl	12.89	172	44312	4.55	ng	0.00
22) Terphenyl-d14	19.67	244	36390	4.75	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	3.10	88	5666	3.85	ng	96
3) n-Nitrosodimethylamine	3.43	42	4703	3.94	ng	# 97
6) bis(2-Chloroethyl)ether	7.04	93	12285	3.91	ng	# 97
9) Nitrobenzene	8.81	77	15164	6.10	ng	# 100
10) Hexachlorobutadiene	10.74	225	9291	5.27	ng	100
11) 2-Methylnaphthalene	12.07	142	33840	4.60	ng	# 92
16) Hexachlorobenzene	16.35	284	9936	6.77	ng	# 100
17) Pentachlorophenol	16.69	266	4718	12.28	ng	# 69
18) Fluoranthene	19.10	202	83975	7.36	ng	100
20) Benzidine	19.31	184	23091	8.01	ng	# 78
21) Pyrene	19.46	202	84482	4.96	ng	99
23) Benzo(a)anthracene	21.22	228	82452m	4.62	ng	
24) 3,3'-Dichlorobenzidine	21.17	252	30775	7.11	ng	# 91
25) Chrysene	21.26	228	70262m	4.26	ng	
26) Bis(2-ethylhexyl)phthalate	21.14	149	47745	6.28	ng	98
27) Indeno(1,2,3-cd)pyrene	25.70	276	74290	4.31	ng	99
29) Benzo(b)fluoranthene	22.79	252	83034	5.74	ng	95
30) Benzo(k)fluoranthene	22.83	252	71460	5.54	ng	95
31) Benzo(a)pyrene	23.37	252	66851	5.32	ng	95
32) Dibenzo(a,h)anthracene	25.70	278	59260	5.28	ng	95
33) Benzo(g,h,i)perylene	26.39	276	63282	5.16	ng	97

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

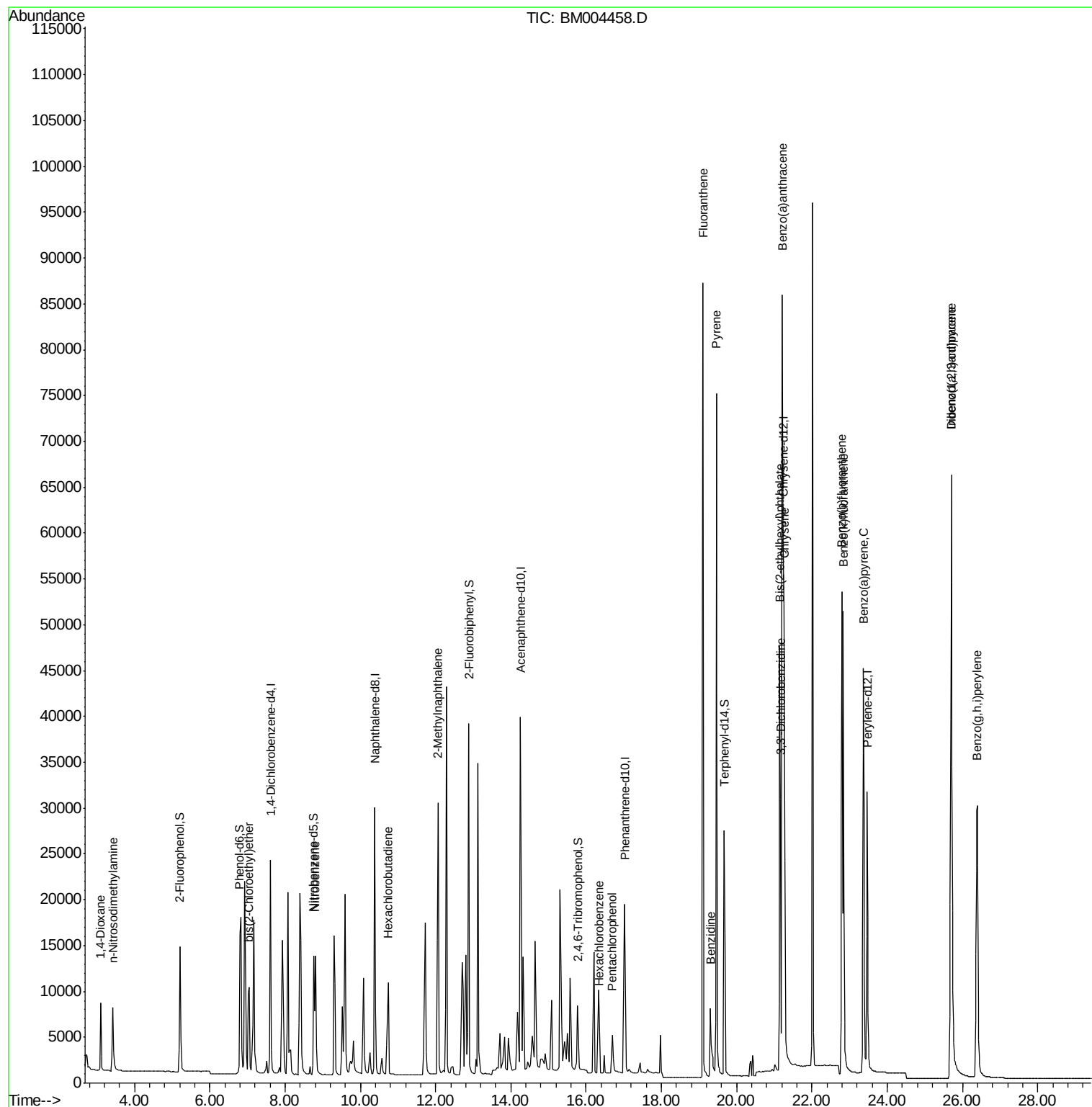
Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\
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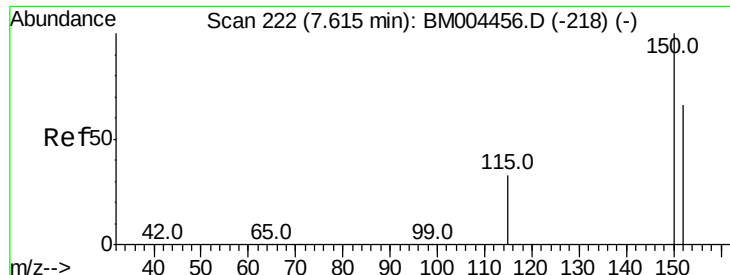
Instrument :
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SSTDIC005

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 222

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

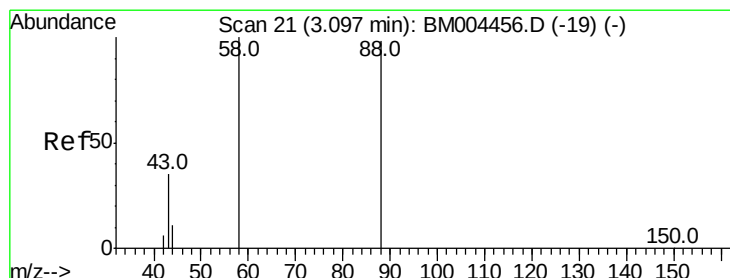
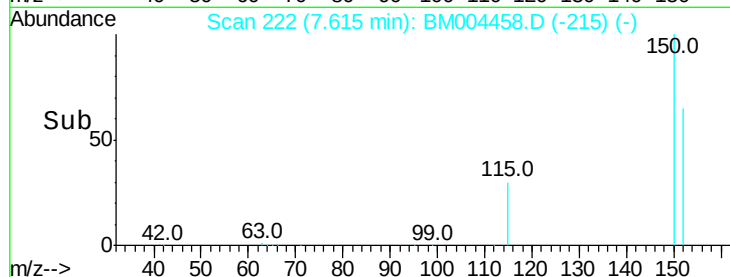
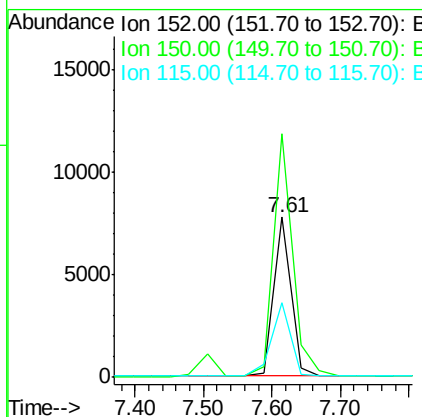
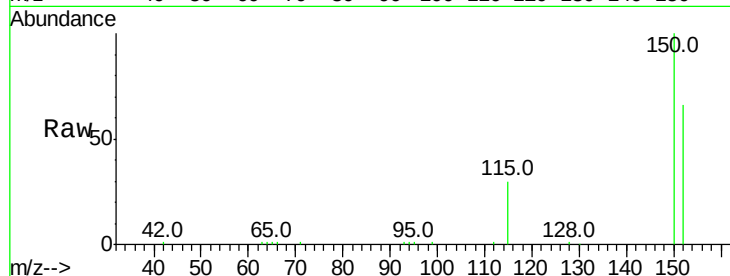
ClientSampleId :

SSTDIC005

Tot Ion:	152	Resp:	13734
Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.9	185.9
115	46.5	40.6	61.0

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#2

1,4-Dioxane

Concen: 3.85 ng

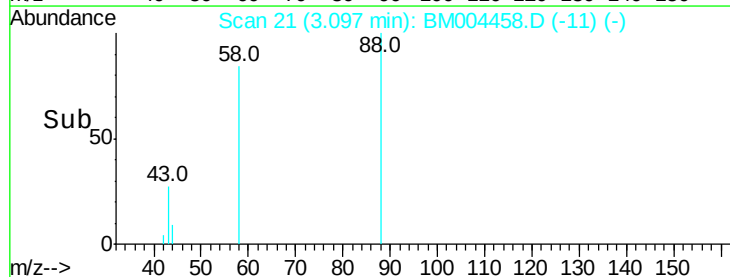
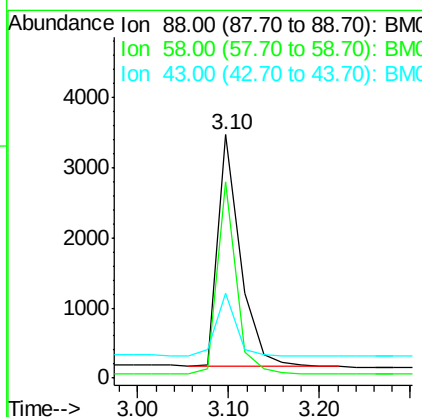
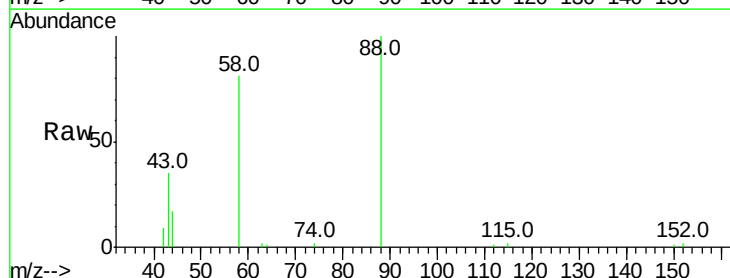
RT: 3.10 min Scan# 21

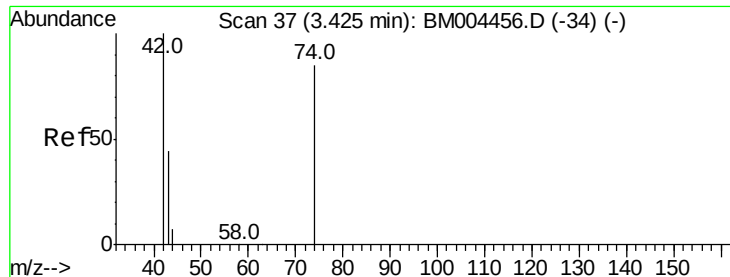
Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tgt Ion:	88	Resp:	5666
Ion	Ratio	Lower	Upper
88	100		
58	70.4	58.5	87.7
43	25.3	22.2	33.2





#3

n-Nitrosodimethylamine

Concen: 3.94 ng

RT: 3.43 min Scan# 37

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

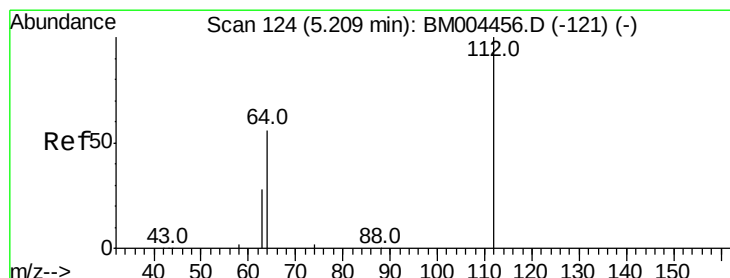
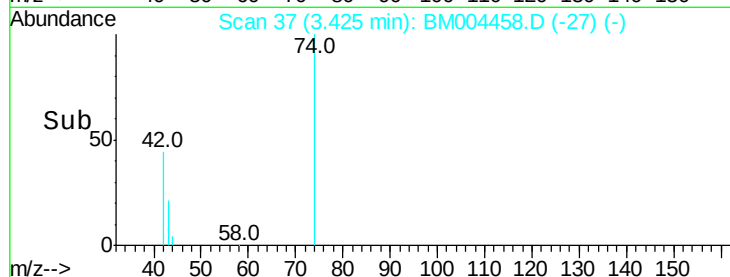
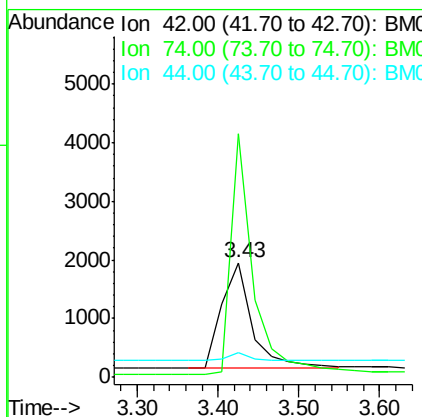
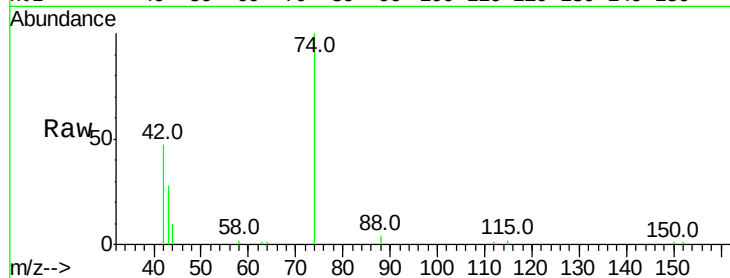
ClientSampleId :

SSTDIC005

Tot Ion:	42	Resp:	4703
Ion	Ratio	Lower	Upper
42	100		
74	165.7	0.0	0.0#
44	6.3	5.8	8.6

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#4

2-Fluorophenol

Concen: 5.17 ng

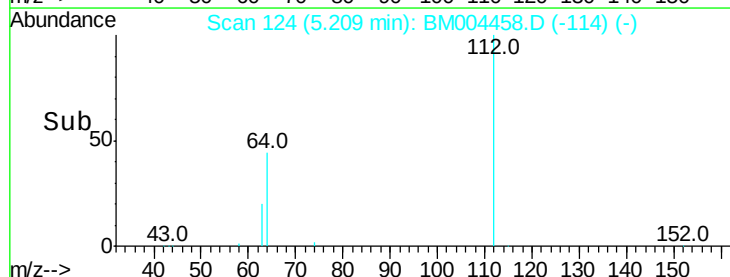
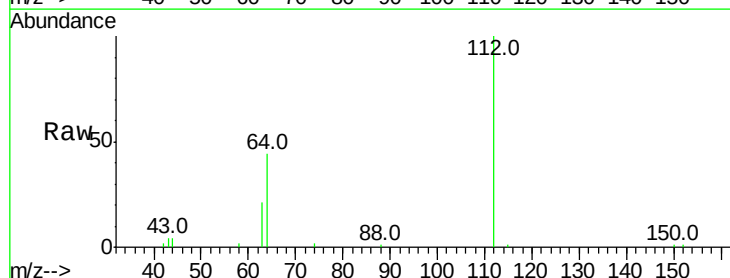
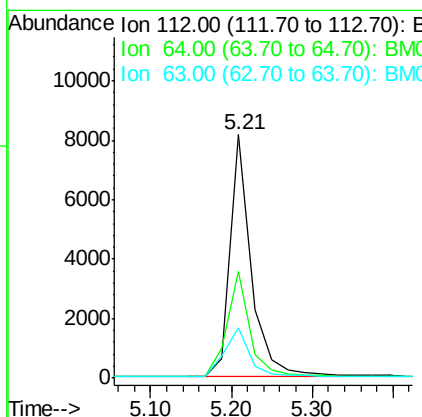
RT: 5.21 min Scan# 124

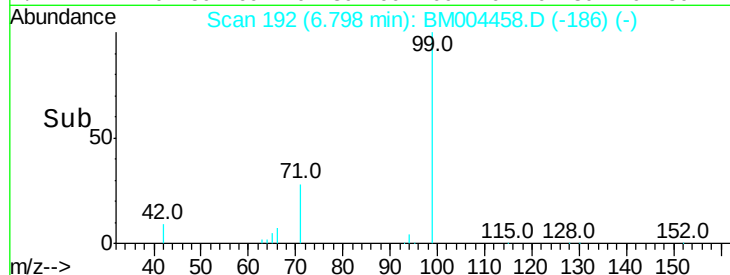
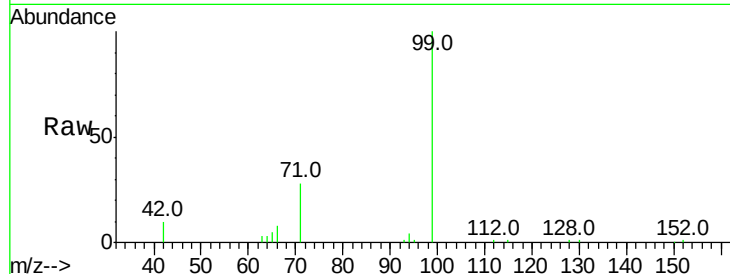
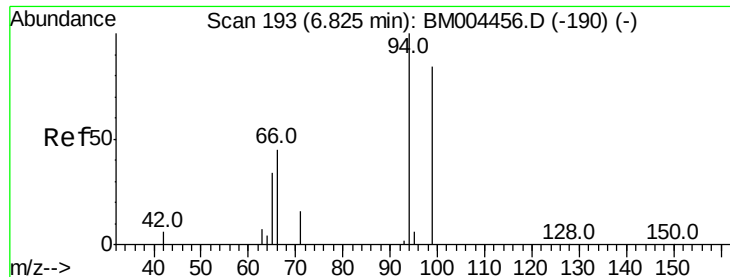
Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tgt Ion:	112	Resp:	14832
Ion	Ratio	Lower	Upper
112	100		
64	47.2	39.4	59.2
63	23.9	19.9	29.9





#5

Phenol-d6

Concen: 5.74 ng

RT: 6.80 min Scan# 192

Delta R.T. -0.03 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tot Ion	Ratio	Resp	Lower	Upper
99	100	19601		
42	12.4	0.0	0.0	0.0
71	27.2	0.0	0.0	0.0

Instrument :

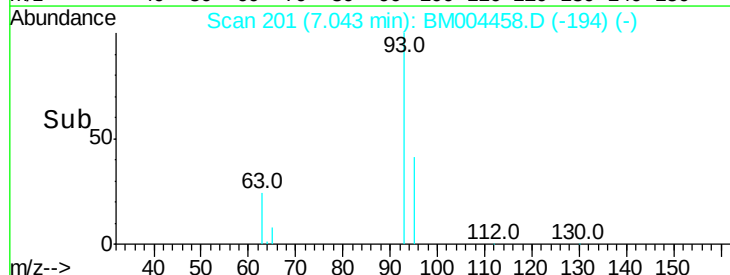
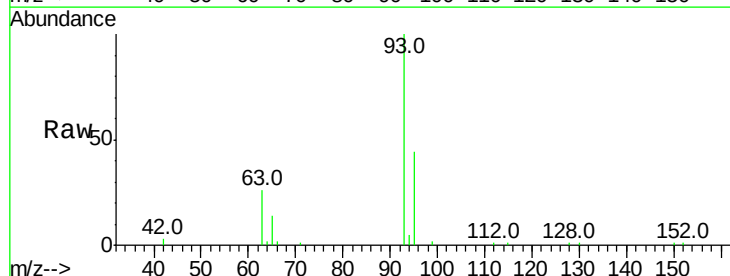
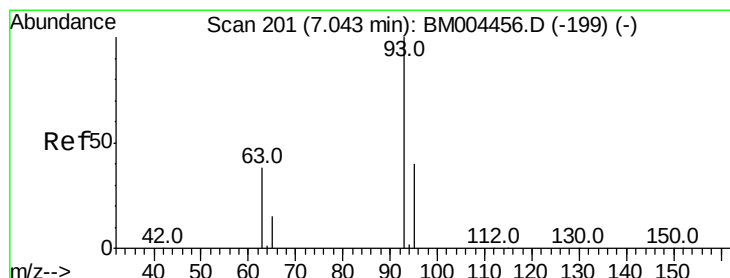
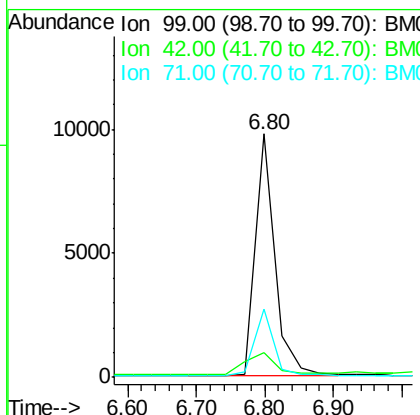
BNA_M

ClientSampleId :

SSTDIC005

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#6

bis(2-Chloroethyl)ether

Concen: 3.91 ng

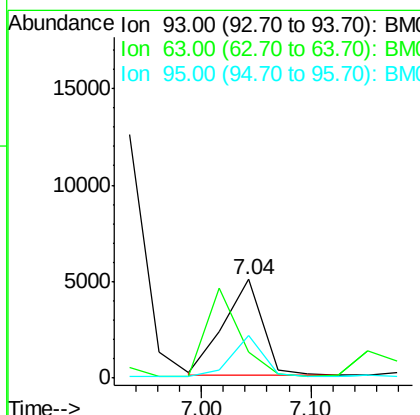
RT: 7.04 min Scan# 201

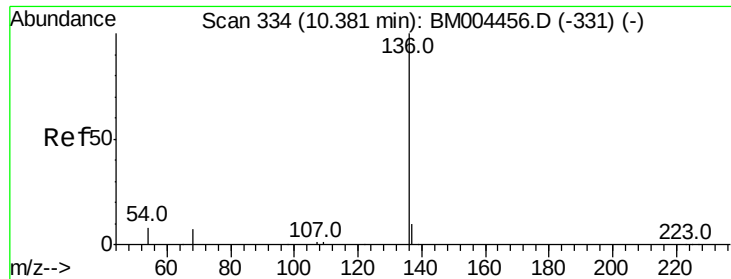
Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	12285		
63	0.0	0.0	0.0	0.0
95	35.6	27.1	40.7	





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.38 min Scan# 334

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

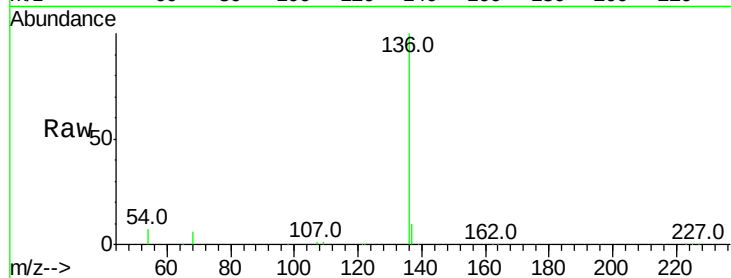
ClientSampleId :

SSTDICC005

Tot Ion:	136	Resp:	48412
Ion Ratio	Lower	Upper	
136	100		
137	10.1	8.0	12.0
54	7.3	7.0	10.6
68	6.2	5.8	8.6

Manual Integrations
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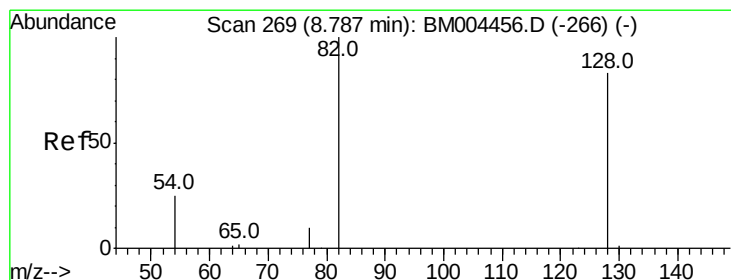
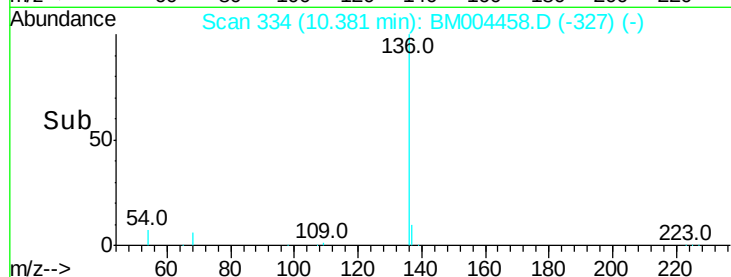
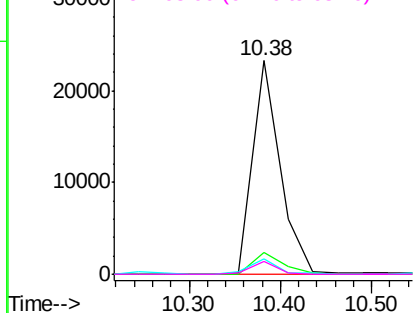


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 6.48 ng

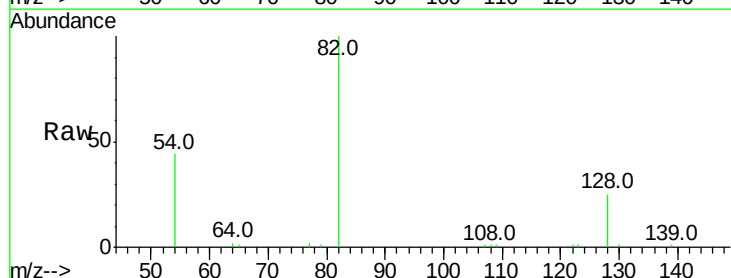
RT: 8.76 min Scan# 268

Delta R.T. -0.02 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

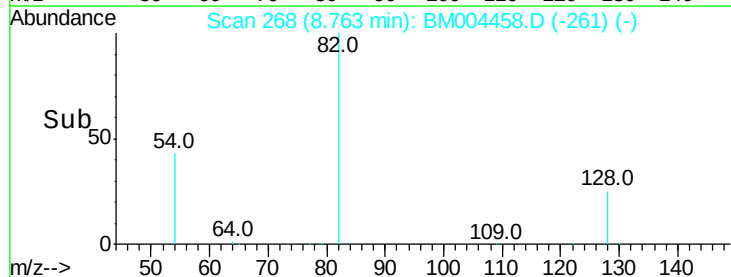
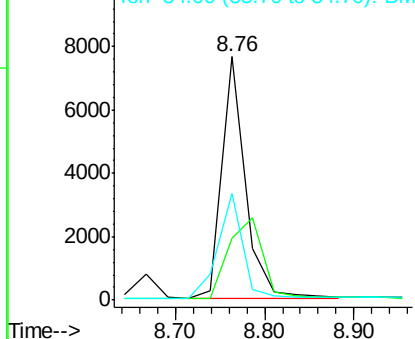
Tgt Ion:	82	Resp:	14080
Ion Ratio	Lower	Upper	
82	100		
128	25.4	67.0	100.6#
54	43.7	25.2	37.8#

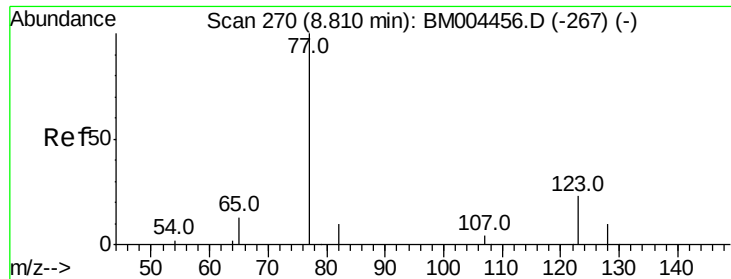


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 6.10 ng

RT: 8.81 min Scan# 270

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

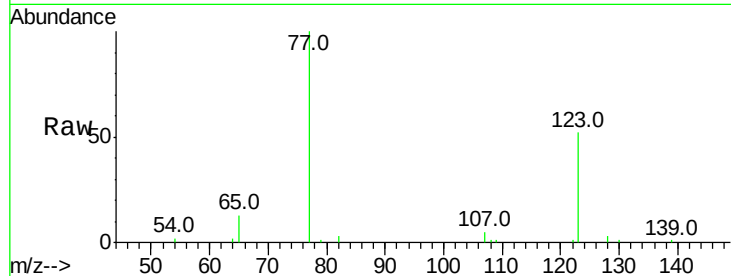
ClientSampleId :

SSTDIC005

Tot Ion:	77	Resp:	15164
Ion Ratio	Lower	Upper	
77	100		
123	55.8	0.0	0.0#
65	12.7	10.1	15.1

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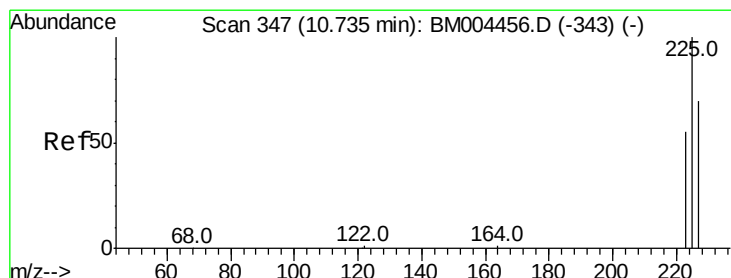
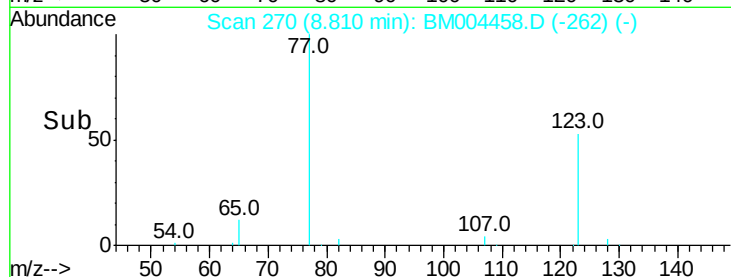
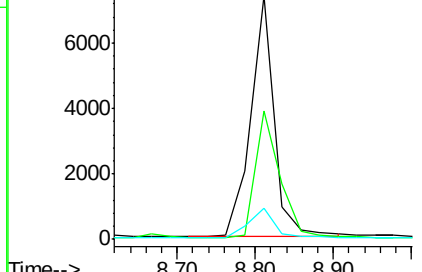
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Abundance Ion 77.00 (76.70 to 77.70): BM004456.D (-267) (-)

Ion 123.00 (122.70 to 123.70): BM004456.D (-267) (-)

Ion 65.00 (64.70 to 65.70): BM004456.D (-267) (-)



#10

Hexachlorobutadiene

Concen: 5.27 ng

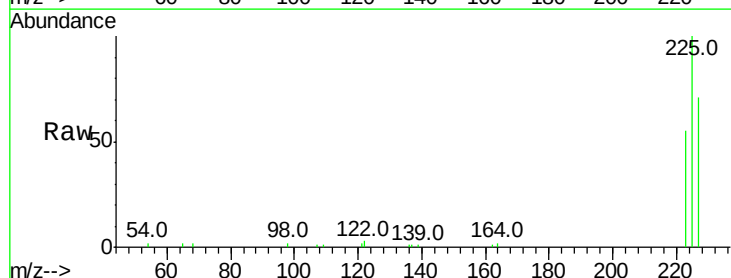
RT: 10.74 min Scan# 347

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

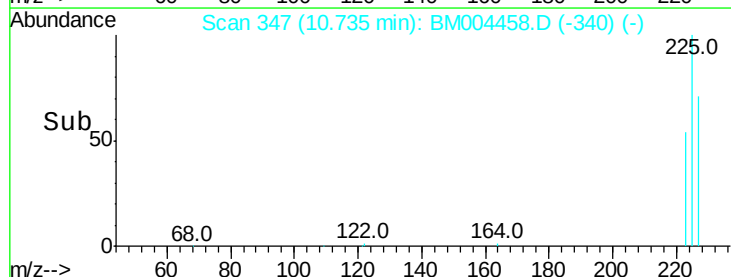
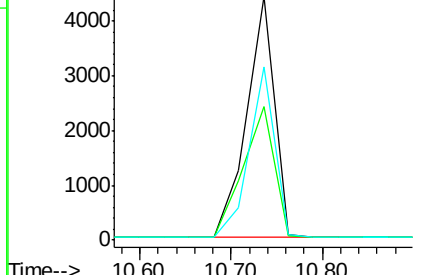
Tgt Ion:	225	Resp:	9291
Ion Ratio	Lower	Upper	
225	100		
223	60.5	48.4	72.6
227	65.6	52.8	79.2

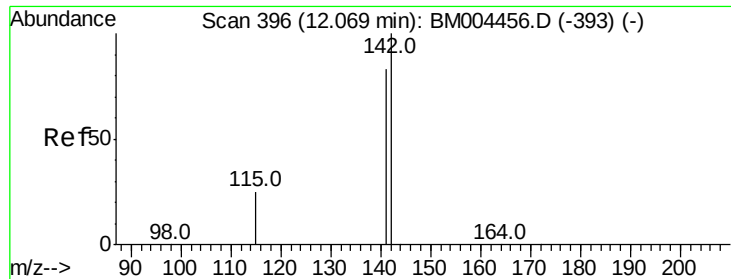


Abundance Ion 225.00 (224.70 to 225.70): BM004456.D (-343) (-)

Ion 223.00 (222.70 to 223.70): BM004456.D (-343) (-)

Ion 227.00 (226.70 to 227.70): BM004456.D (-343) (-)





#11

2-Methylnaphthalene

Concen: 4.60 ng

RT: 12.07 min Scan# 396

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

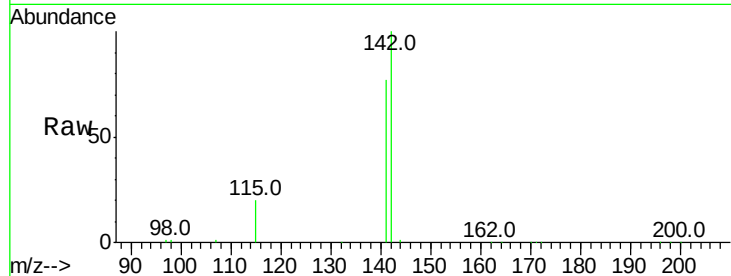
ClientSampleId :

SSTDIC005

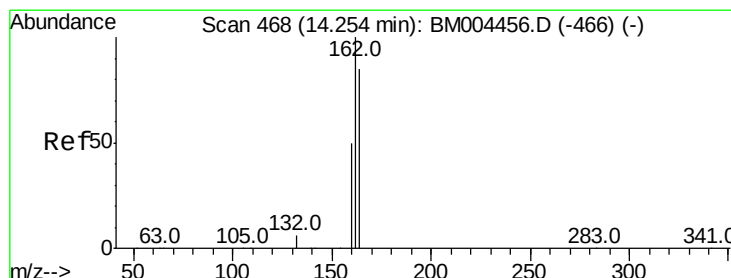
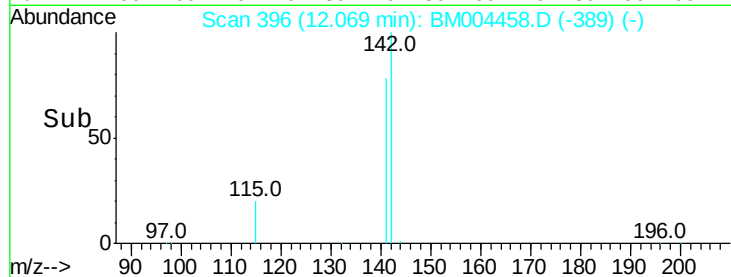
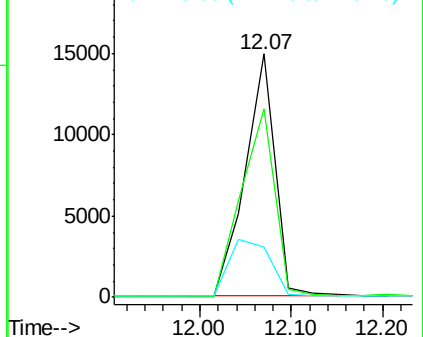
Tot Ion:	142	Resp:	33840
Ion Ratio	Lower	Upper	
142	100		
141	77.5	66.4	99.6
115	20.5	21.6	32.4#

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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

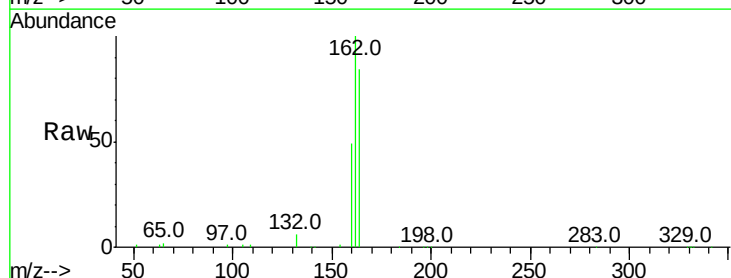
RT: 14.25 min Scan# 468

Delta R.T. 0.00 min

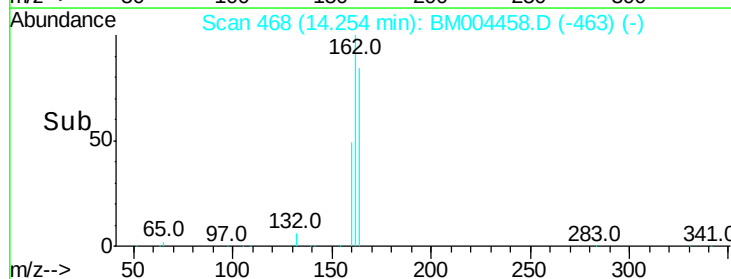
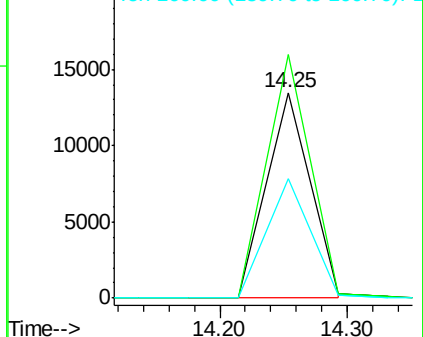
Lab File: BM004458.D

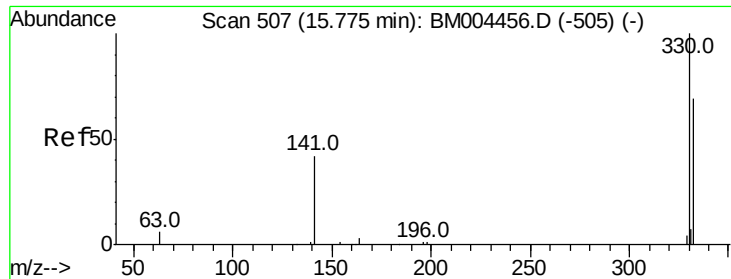
Acq: 28 Feb 2016 19:43

Tgt Ion:	164	Resp:	31892
Ion Ratio	Lower	Upper	
164	100		
162	118.4	94.6	141.8
160	57.9	47.0	70.4



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





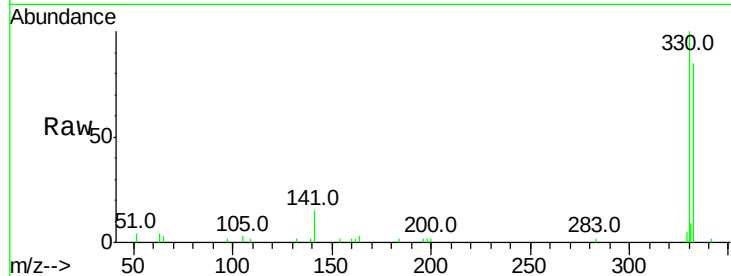
#13
 2,4,6-Tribromophenol
 Concen: 8.22 ng
 RT: 15.78 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: BM004458.D
 Acq: 28 Feb 2016 19:43

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC005

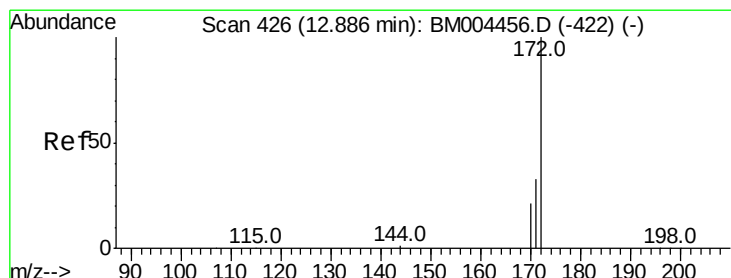
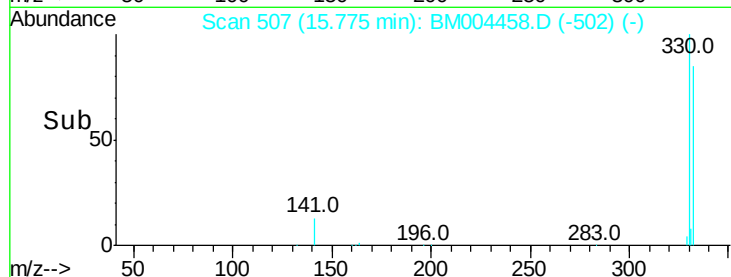
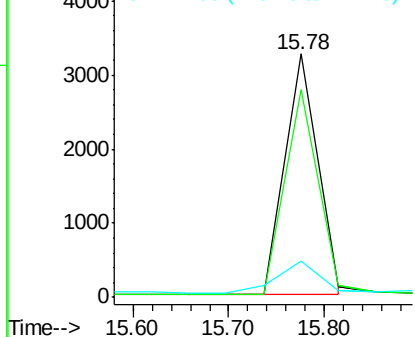
Tot Ion	Ratio	Lower	Upper
330	100		
332	85.9	59.2	88.8
141	16.4	33.0	49.4

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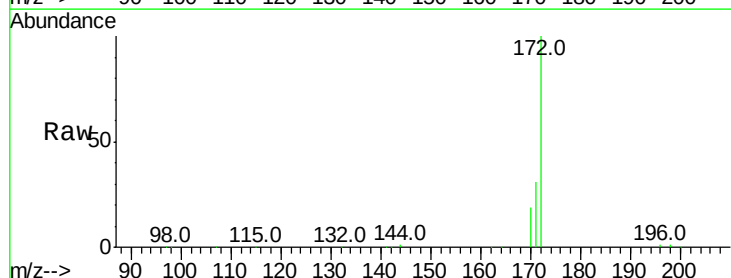


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

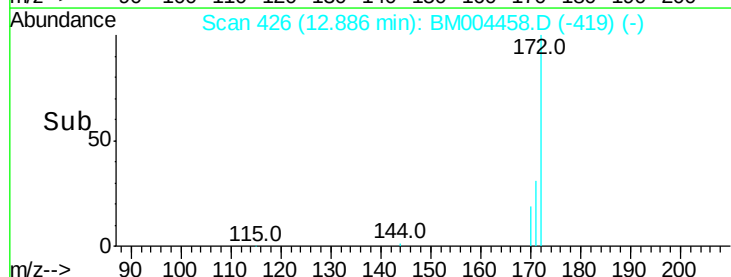
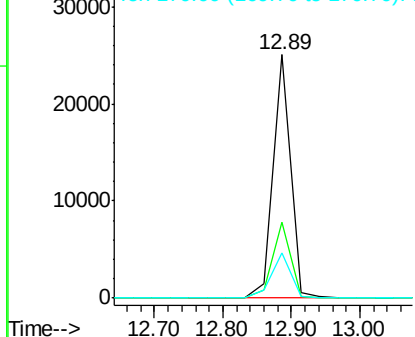


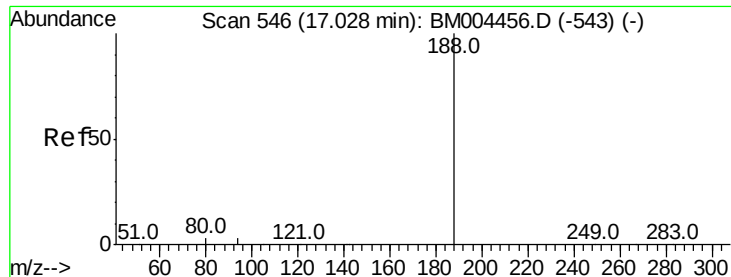
#14
 2-Fluorobiphenyl
 Concen: 4.55 ng
 RT: 12.89 min Scan# 426
 Delta R.T. 0.00 min
 Lab File: BM004458.D
 Acq: 28 Feb 2016 19:43

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.4	27.2	40.8
170	18.8	17.4	26.0



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





#15

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.03 min Scan# 546

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

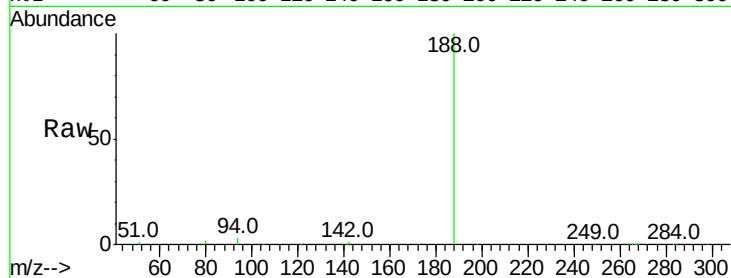
ClientSampleId :

SSTDICC005

Tot Ion:188	Resp:	40553
Ion Ratio	Lower	Upper
188 100		
94 2.9	2.7	4.1
80 2.4	2.2	3.4

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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM004458.D (-543) (-)

Ion 80.00 (79.70 to 80.70): BM004458.D (-543) (-)

17.03

20000

15000

10000

5000

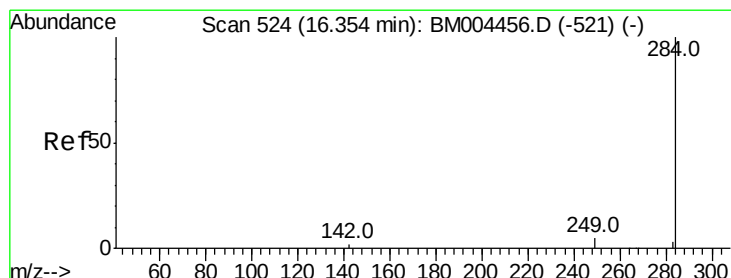
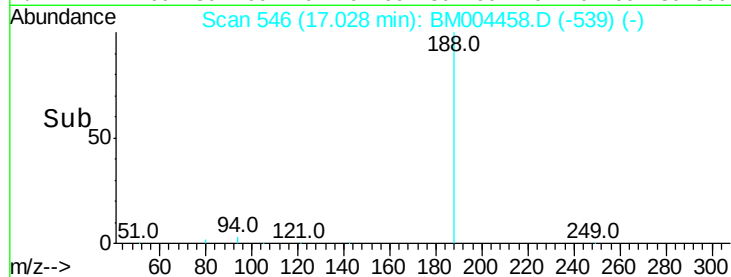
0

Time-->

16.90

17.00

17.10



#16

Hexachlorobenzene

Concen: 6.77 ng

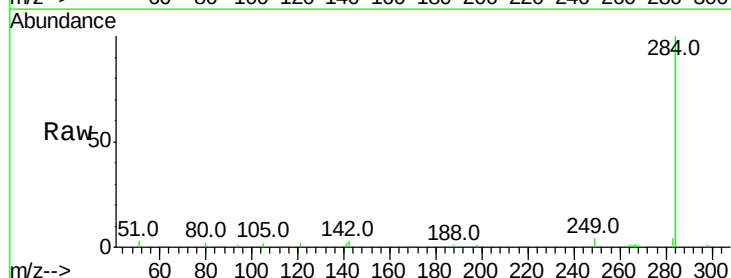
RT: 16.35 min Scan# 524

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tgt Ion:284	Resp:	9936
Ion Ratio	Lower	Upper
284 100		
142 0.0	0.0	0.0
249 0.0	0.0	0.0



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

16.35

6000

5000

4000

3000

2000

1000

0

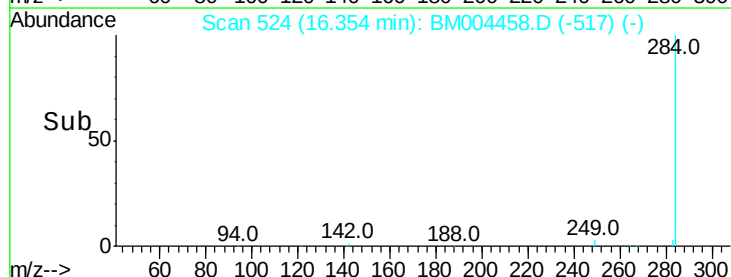
Time-->

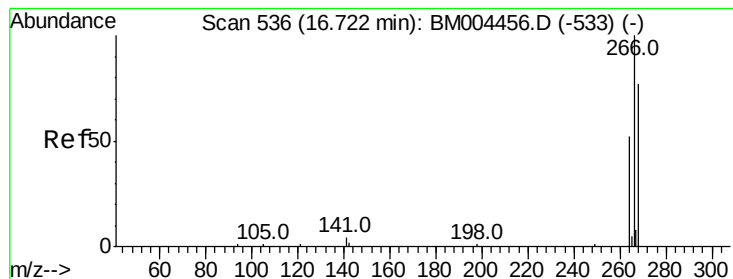
16.20

16.30

16.40

16.50





#17

Pentachlorophenol

Concen: 12.28 ng

RT: 16.69 min Scan# 535

Delta R.T. -0.03 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

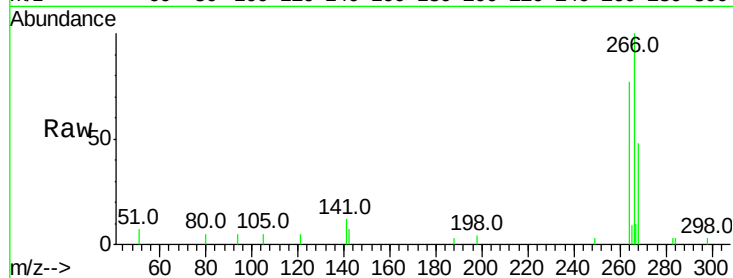
ClientSampleId :

SSTDIC005

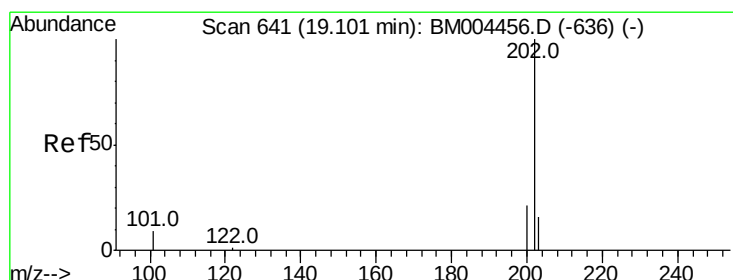
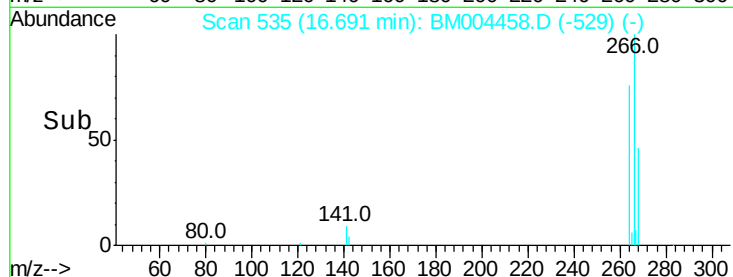
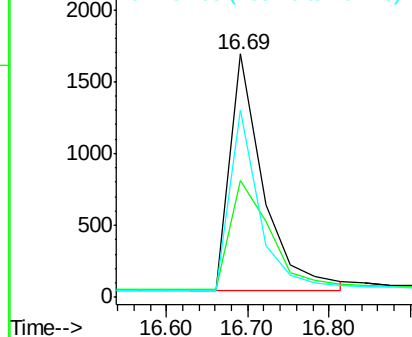
Tot Ion:	266	Resp:	4718
Ion Ratio	Lower	Upper	
266	100		
268	47.8	66.8	100.2#
264	76.7	49.4	74.0#

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Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



#18

Fluoranthene

Concen: 7.36 ng

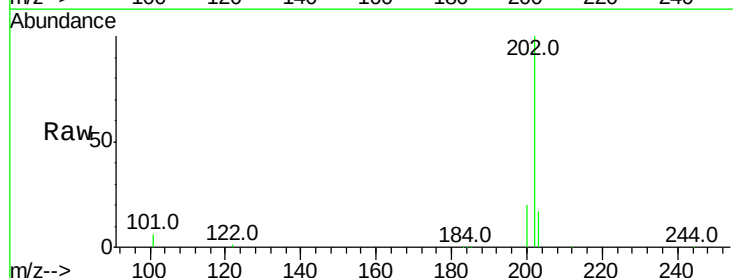
RT: 19.10 min Scan# 641

Delta R.T. 0.00 min

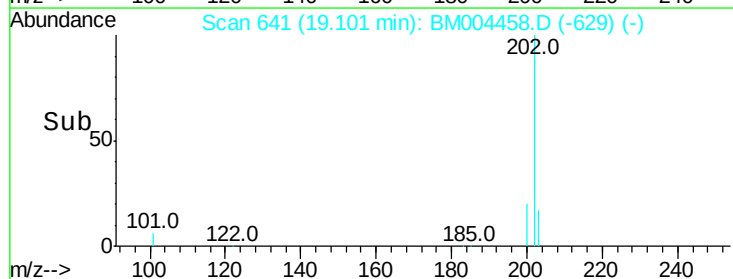
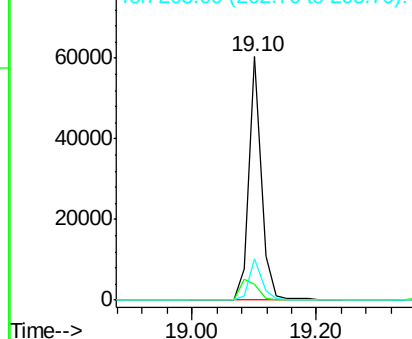
Lab File: BM004458.D

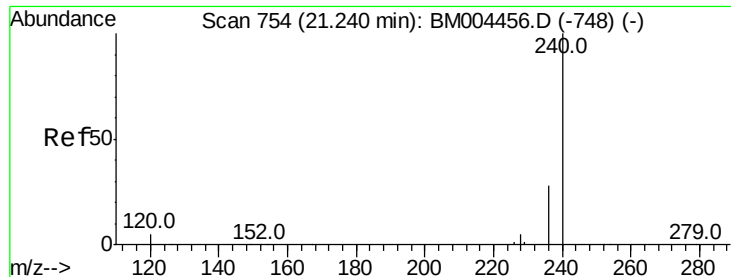
Acq: 28 Feb 2016 19:43

Tgt Ion:	202	Resp:	83975
Ion Ratio	Lower	Upper	
202	100		
101	11.6	9.4	14.0
203	17.3	13.9	20.9



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





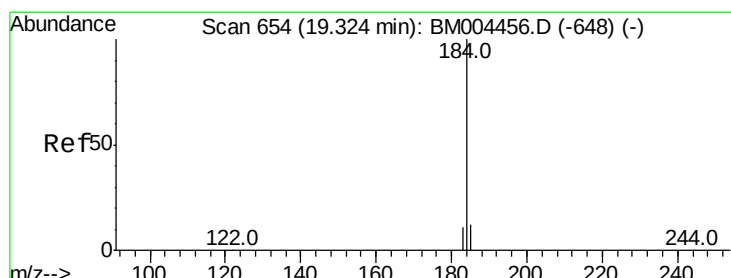
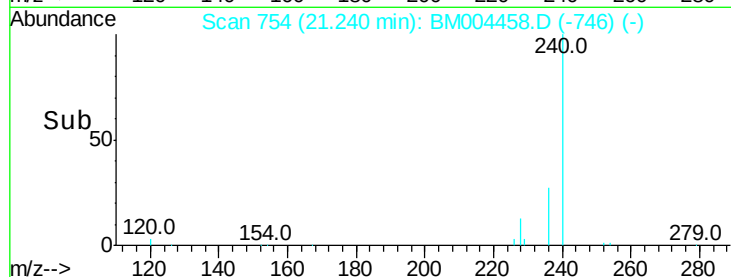
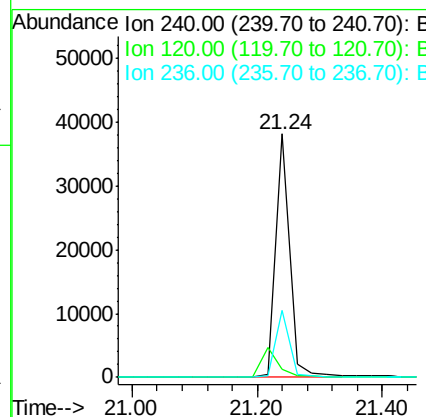
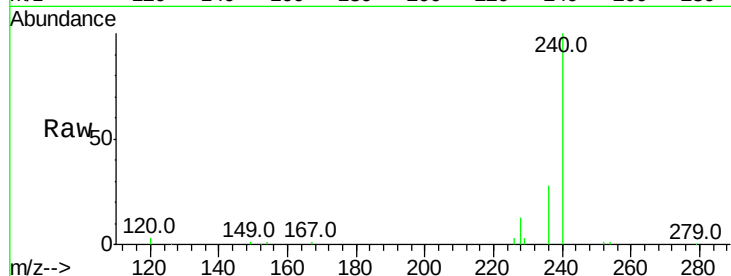
#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.24 min Scan# 754
Delta R.T. 0.00 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tot Ion	Ratio	Lower	Upper
240	100		
120	3.3	4.0	6.0#
236	27.6	22.7	34.1

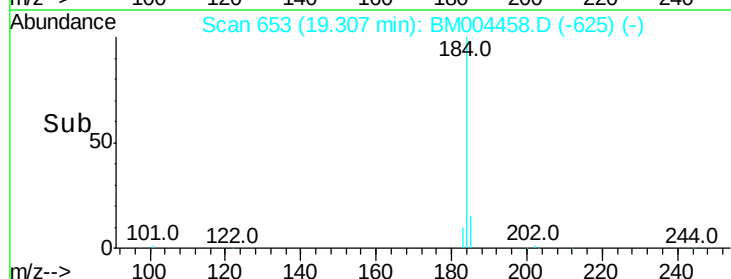
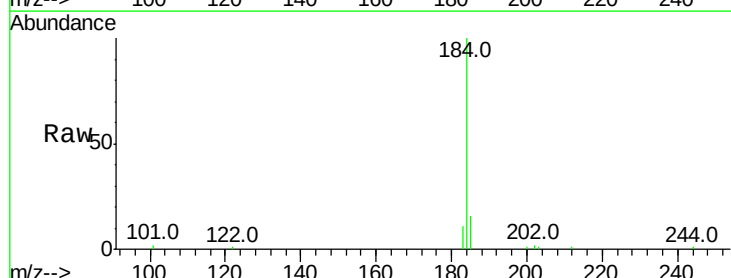
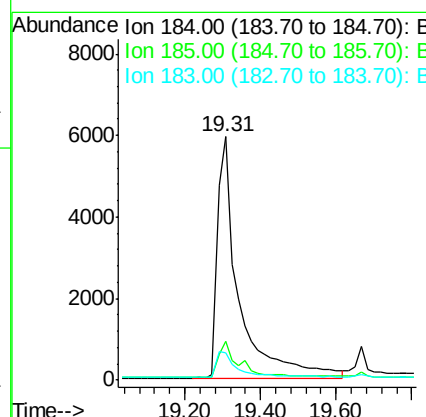
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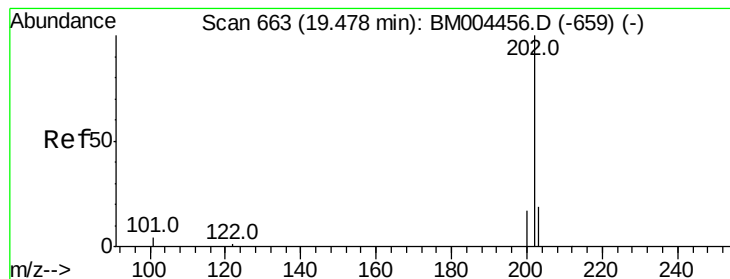
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#20
Benzidine
Concen: 8.01 ng
RT: 19.31 min Scan# 653
Delta R.T. -0.02 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Tgt Ion	Ratio	Lower	Upper
184	100		
185	16.1	20.8	31.2#
183	11.4	18.5	27.7#





#21

Pvrene

Concen: 4.96 ng

RT: 19.46 min Scan# 662

Delta R.T. -0.02 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

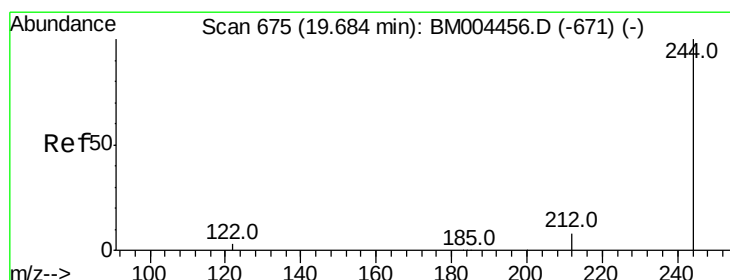
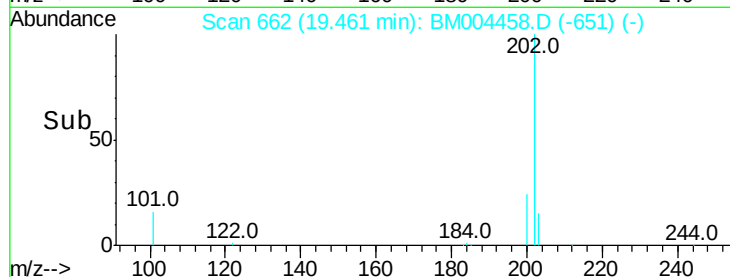
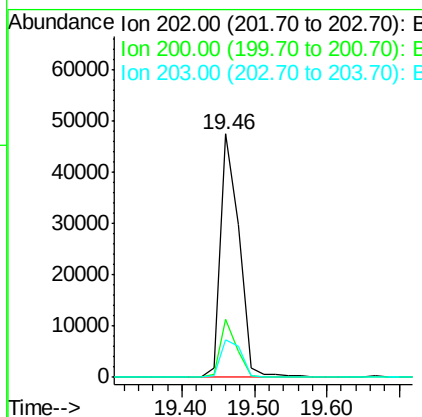
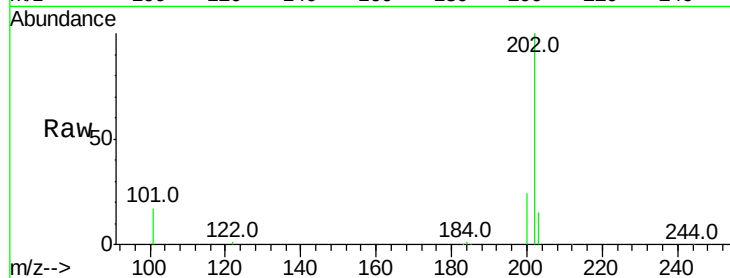
ClientSampleId :

SSTDIC005

Tot Ion:	202	Resp:	84482
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.6	24.8
203	17.3	13.9	20.9

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#22

Terphenyl-d14

Concen: 4.75 ng

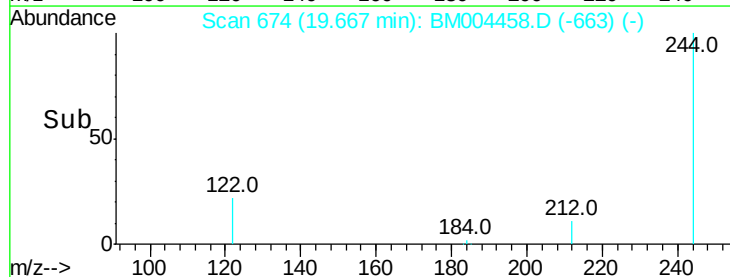
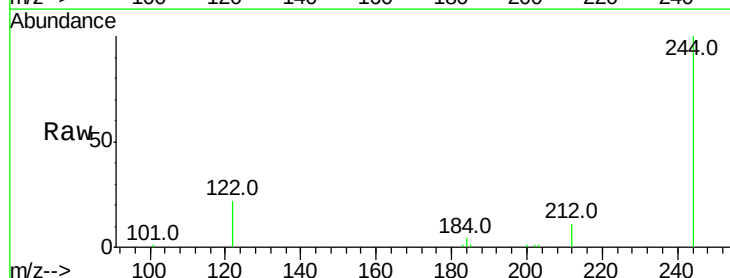
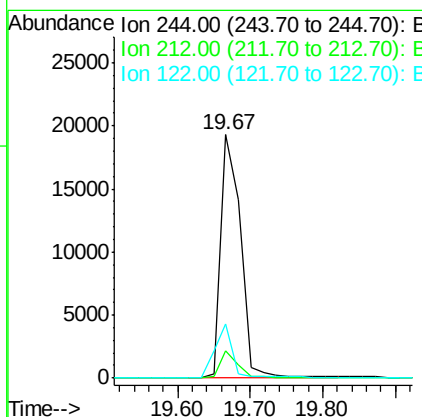
RT: 19.67 min Scan# 674

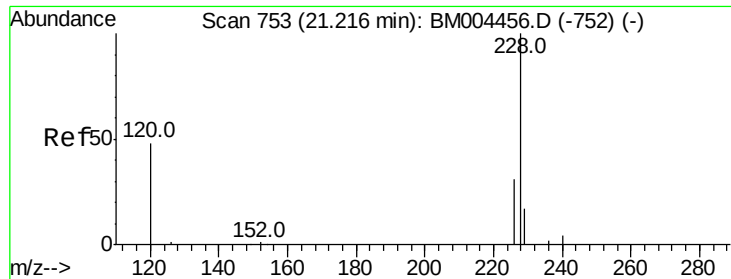
Delta R.T. -0.02 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tgt Ion:	244	Resp:	36390
Ion Ratio	Lower	Upper	
244	100		
212	11.3	7.4	11.2#
122	22.4	4.2	6.2#





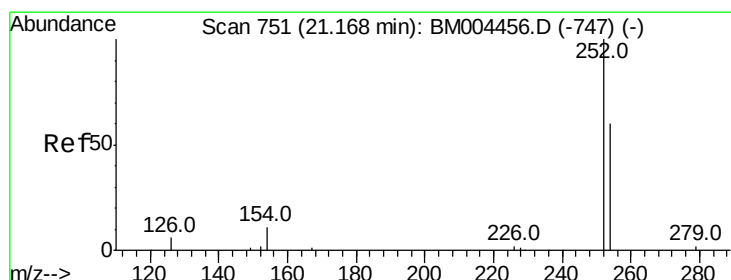
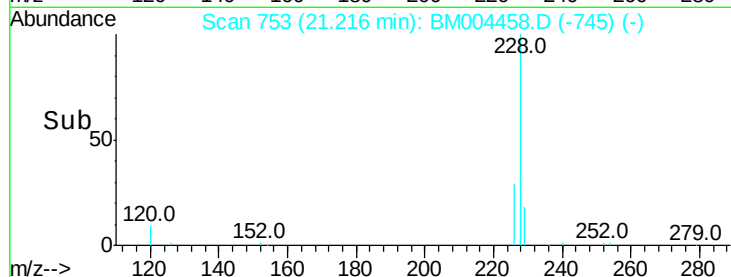
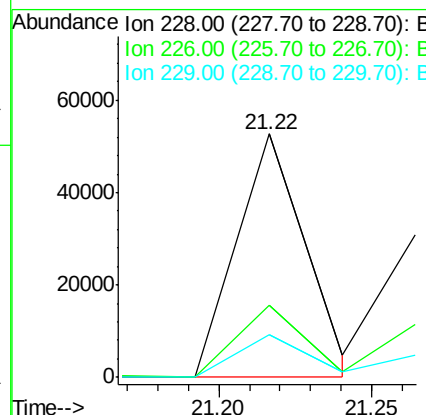
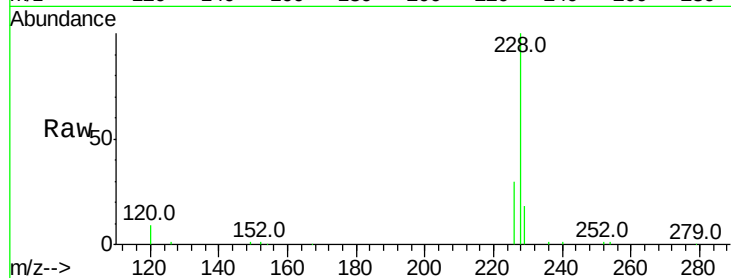
#23
Benzo(a)anthracene
Concen: 4.62 ng m
RT: 21.22 min Scan# 753
Delta R.T. 0.00 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Instrument :
BNA_M
ClientSampleId :
SSTDIC005

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	25.1	37.7
229	17.6	14.2	21.4

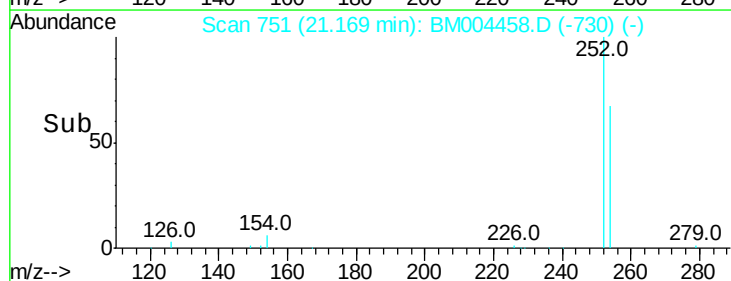
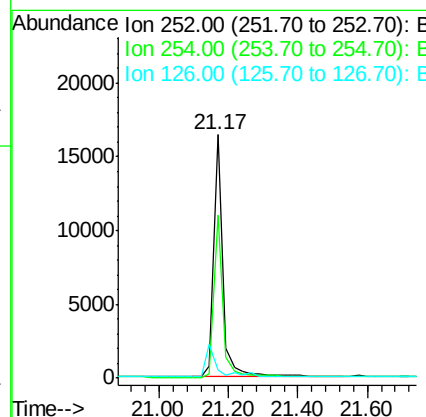
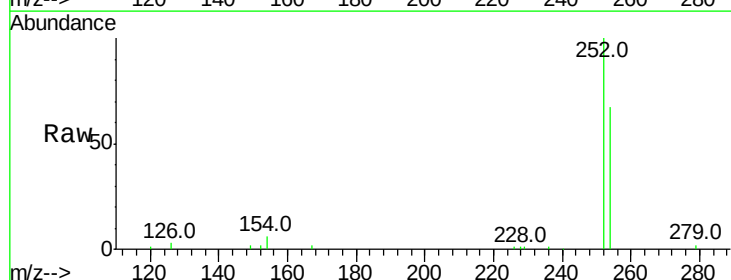
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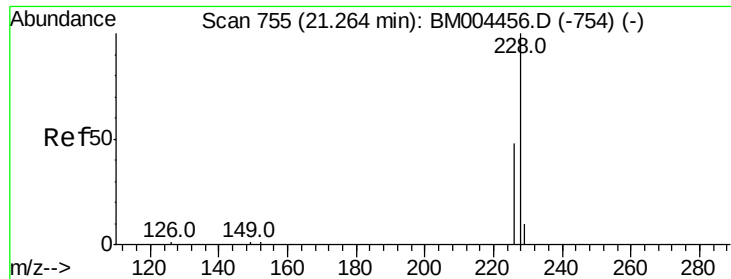
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#24
3,3'-Dichlorobenzidine
Concen: 7.11 ng
RT: 21.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Tgt Ion	Ratio	Lower	Upper
252	100		
254	66.9	48.7	73.1
126	3.4	8.2	12.2#





#25

Chrysene

Concen: 4.26 ng/mL

RT: 21.26 min Scan# 755

Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

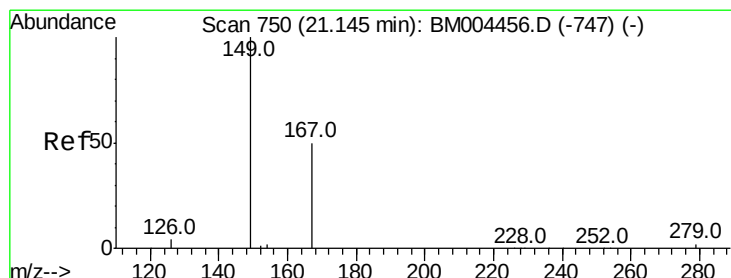
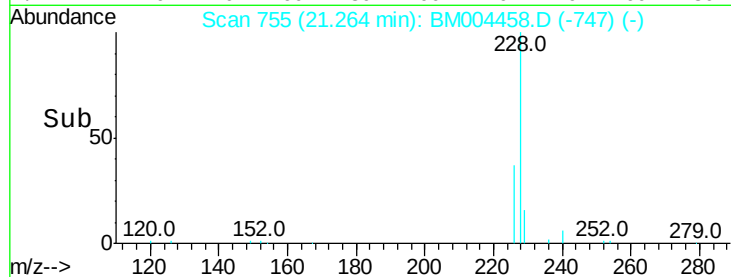
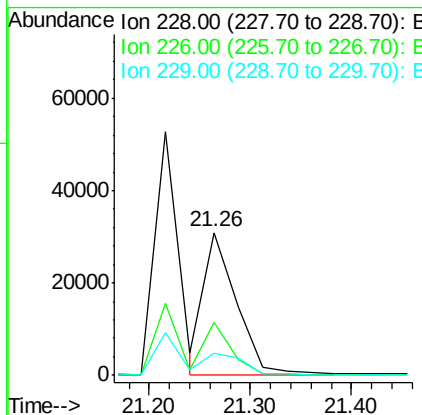
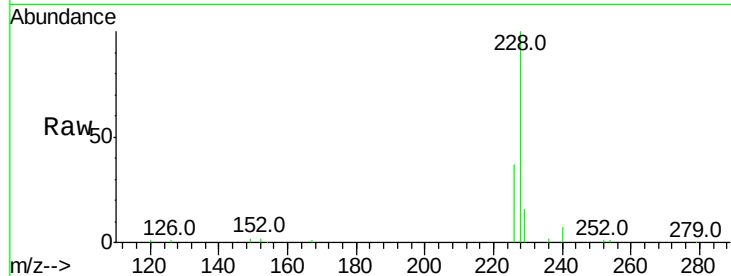
ClientSampleId :

SSTDIC005

Tot Ion:	228	Resp:	70262
Ion Ratio	Lower	Upper	
228	100		
226	37.0	31.0	46.6
229	15.9	13.4	20.2

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#26

Bis(2-ethylhexyl)phthalate

Concen: 6.28 ng/mL

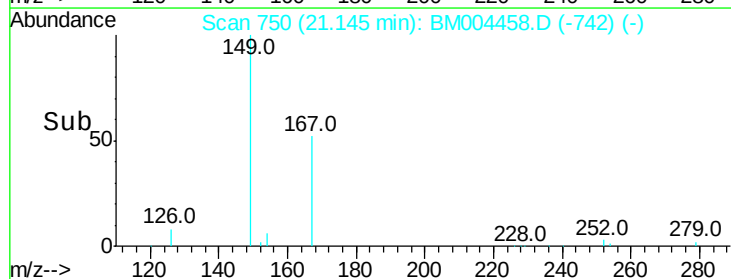
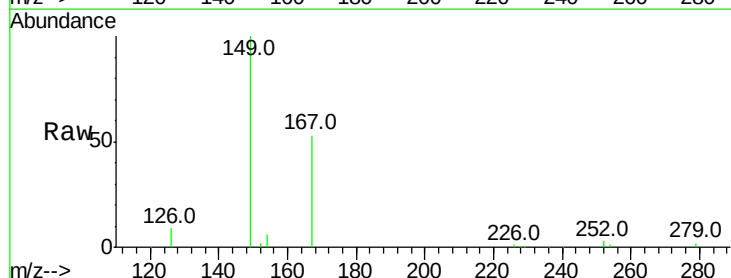
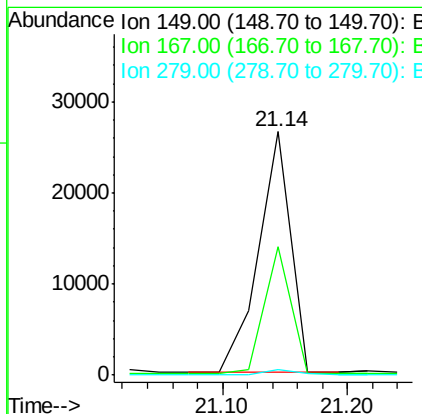
RT: 21.14 min Scan# 750

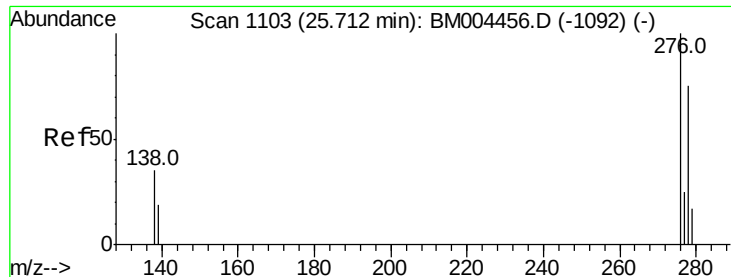
Delta R.T. 0.00 min

Lab File: BM004458.D

Acq: 28 Feb 2016 19:43

Tgt Ion:	149	Resp:	47745
Ion Ratio	Lower	Upper	
149	100		
167	42.9	33.1	49.7
279	2.3	2.0	3.0





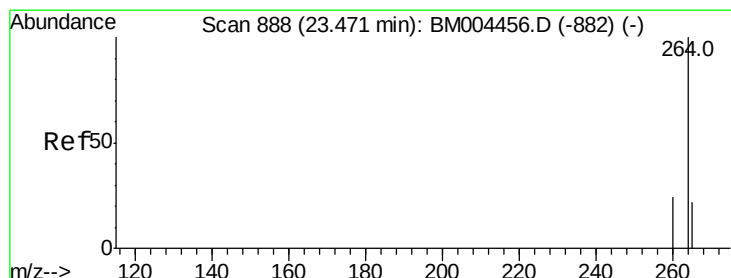
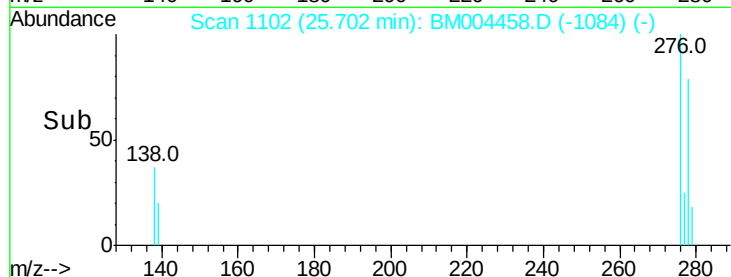
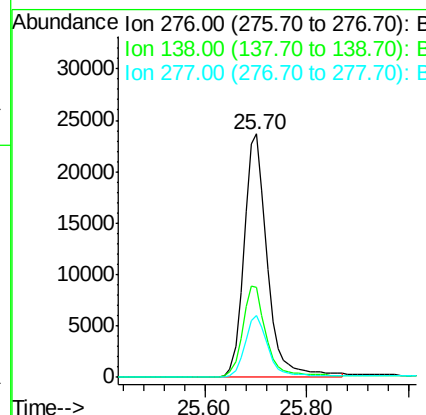
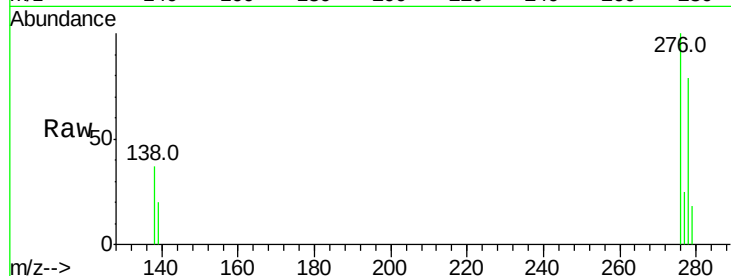
#27
Indeno(1,2,3-cd)pyrene
Concen: 4.31 ng
RT: 25.70 min Scan# 1102
Delta R.T. -0.01 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Instrument :
BNA_M
ClientSampleId :
SSTDIC005

Tot Ion	Ratio	Lower	Upper
276	100		
138	37.9	30.0	45.0
277	24.9	19.8	29.8

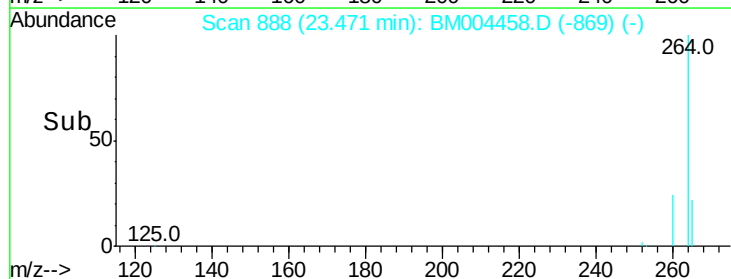
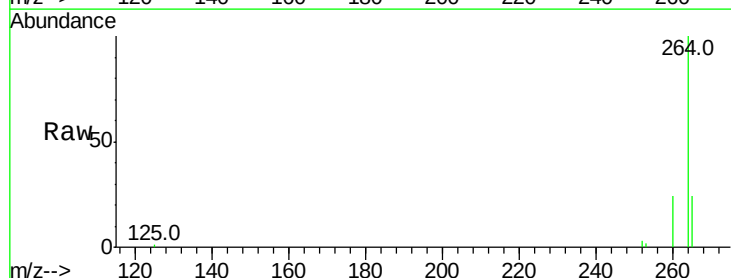
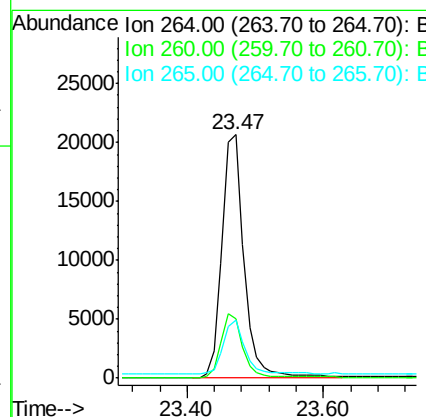
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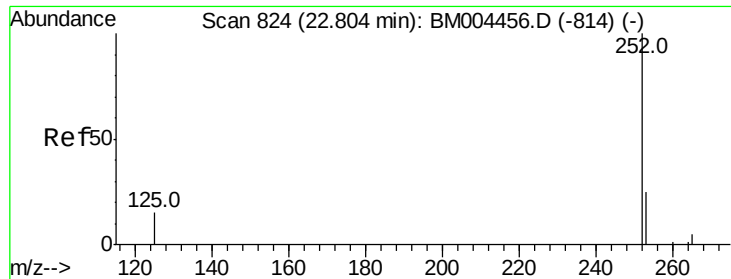
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.47 min Scan# 888
Delta R.T. 0.00 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	23.7	18.9	28.3





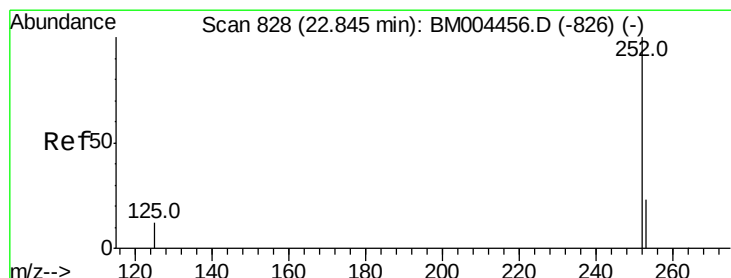
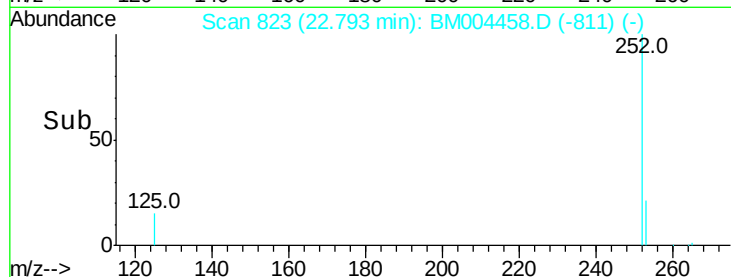
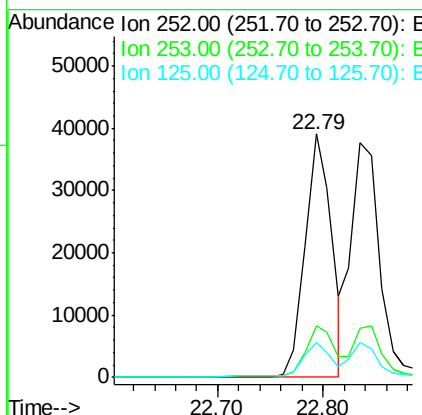
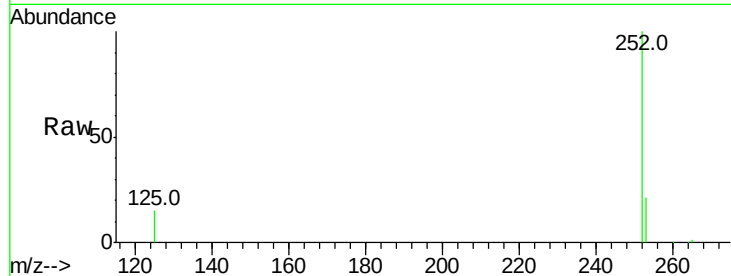
#29
Benzo(b)fluoranthene
Concen: 5.74 ng
RT: 22.79 min Scan# 823
Delta R.T. -0.01 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Instrument :
BNA_M
ClientSampleId :
SSTDIC005

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.2	19.8	29.6
125	14.5	12.2	18.2

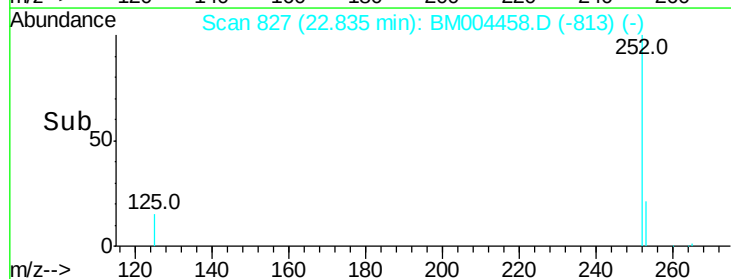
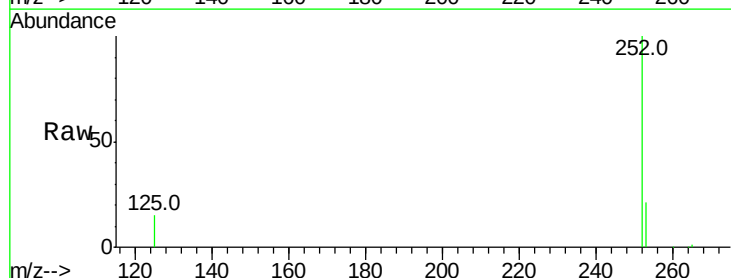
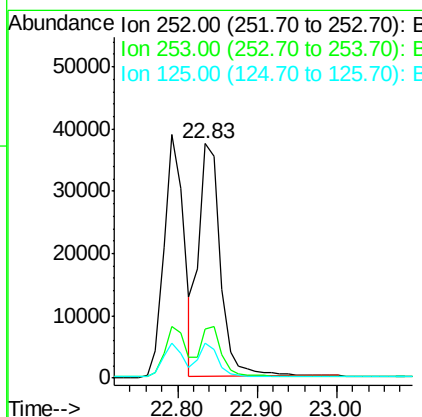
Manual Integrations
APPROVED

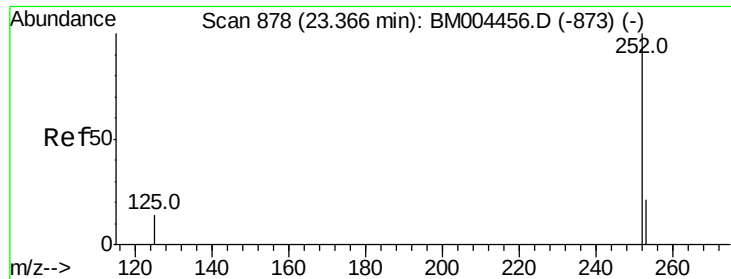
UMANGI
2/29/2016 2:48:55 PM



#30
Benzo(k)fluoranthene
Concen: 5.54 ng
RT: 22.83 min Scan# 827
Delta R.T. -0.01 min
Lab File: BM004458.D
Acq: 28 Feb 2016 19:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.8	19.3	28.9
125	14.8	12.4	18.6





#31

Benzo(a)pyrene

Concen: 5.32 ng

RT: 23.37 min Scan# 878

Delta R.T. 0.00 min

Lab File: BM004458.D

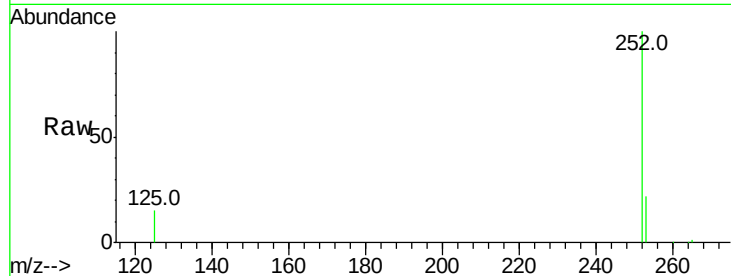
Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

ClientSampleId :

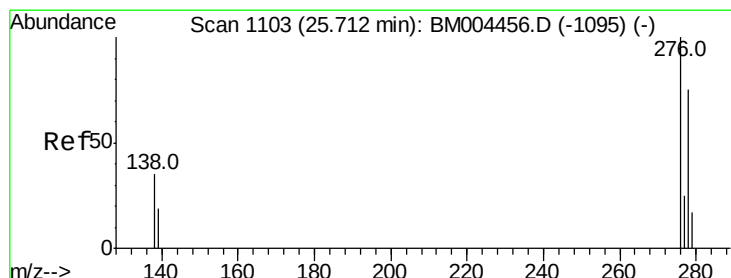
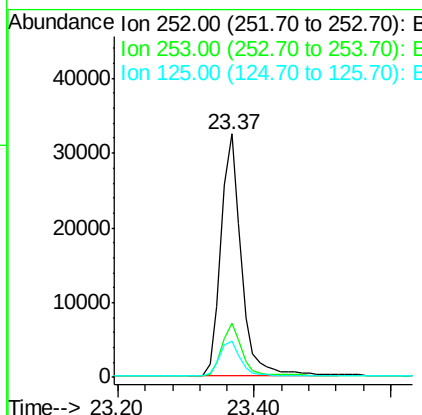
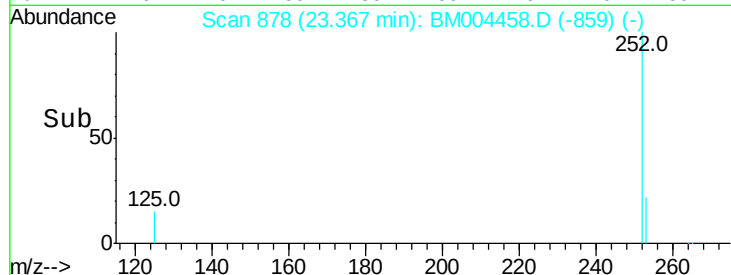
SSTDIC005



Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.3	28.9
125	15.1	14.4	21.6

Manual Integrations
APPROVED

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#32

Dibenzo(a,h)anthracene

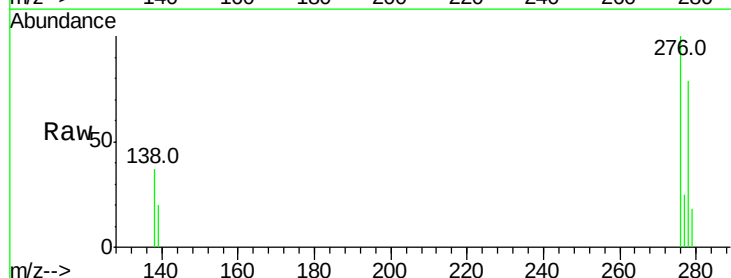
Concen: 5.28 ng

RT: 25.70 min Scan# 1102

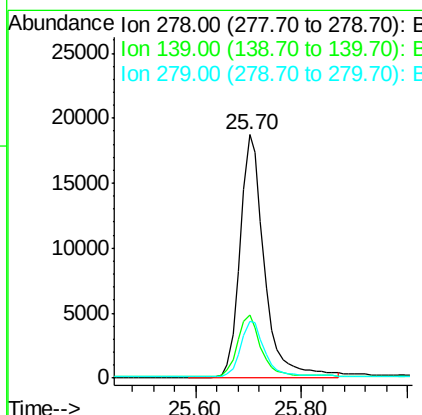
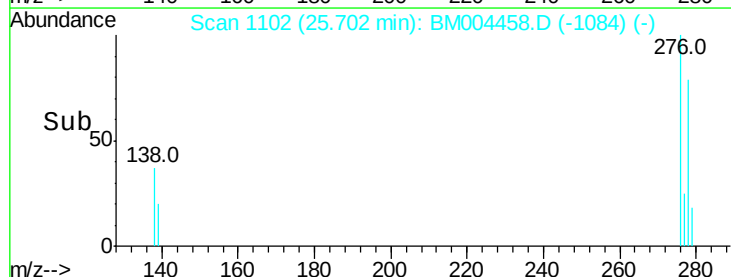
Delta R.T. -0.01 min

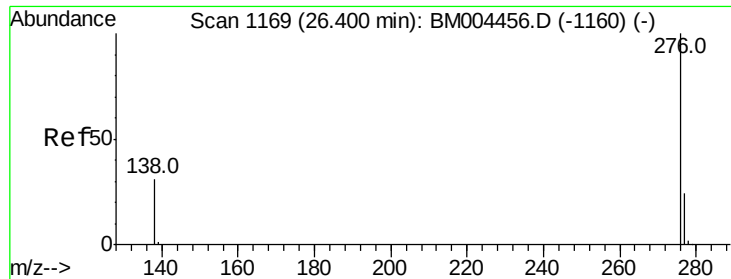
Lab File: BM004458.D

Acq: 28 Feb 2016 19:43



Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.8	22.3	33.5
279	23.2	20.7	31.1





#33

Benzo(a,h,i)perylene

Concen: 5.16 ng

RT: 26.39 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BM004458.D

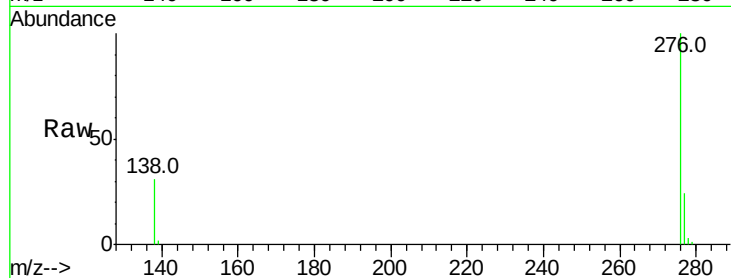
Acq: 28 Feb 2016 19:43

Instrument :

BNA_M

ClientSampleId :

SSTDIC005



Tot Ion:	276	Resp:	63282
Ion Ratio	Lower	Upper	
276	100		
277	23.8	20.4	30.6
138	31.2	26.4	39.6

Manual Integrations
APPROVED

UMANGI
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