

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\
 Data File : BM004460.D
 Acq On : 28 Feb 2016 20:56
 Operator : SJ/UM
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ICVBM022816

Manual Integrations
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UMANGI
 2/29/2016 2:48:59 PM

Quant Time: Feb 29 06:36:15 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 05:57:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	12838	5.00	ng	0.00
7) Naphthalene-d8	10.38	136	45776	5.00	ng	0.00
12) Acenaphthene-d10	14.25	164	30225	5.00	ng	0.00
15) Phenanthrene-d10	17.03	188	45750	5.00	ng	0.00
19) Chrysene-d12	21.24	240	59064	5.00	ng	0.00
28) Perylene-d12	23.46	264	45593	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	2790	0.99	ng	0.00
5) Phenol-d6	6.83	99	2930	0.91	ng	0.00
8) Nitrobenzene-d5	8.79	82	2365	0.93	ng	0.00
13) 2,4,6-Tribromophenol	15.78	330	908	0.79	ng	0.00
14) 2-Fluorobiphenyl	12.89	172	8642	0.94	ng	0.00
22) Terphenyl-d14	19.68	244	7282	0.97	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.10	88	1162	1.08	ng	95
3) n-Nitrosodimethylamine	3.43	42	966	1.01	ng	# 99
6) bis(2-Chloroethyl)ether	7.04	93	2630	1.03	ng	# 100
9) Nitrobenzene	8.81	77	2710	0.97	ng	# 100
10) Hexachlorobutadiene	10.74	225	1838	0.98	ng	99
11) 2-Methylnaphthalene	12.07	142	7122	1.02	ng	97
16) Hexachlorobenzene	16.35	284	2448	1.04	ng	# 100
17) Pentachlorophenol	16.72	266	591	0.80	ng	97
18) Fluoranthene	19.10	202	16148	0.89	ng	100
20) Benzidine	19.32	184	4268	1.16	ng	# 90
21) Pyrene	19.48	202	16536	0.94	ng	99
23) Benzo(a)anthracene	21.22	228	14979m	0.89	ng	
24) 3,3'-Dichlorobenzidine	21.17	252	6053	1.05	ng	99
25) Chrysene	21.26	228	16004m	0.84	ng	
26) Bis(2-ethylhexyl)phthalate	21.14	149	8222	0.81	ng	# 97
27) Indeno(1,2,3-cd)pyrene	25.70	276	14582	0.95	ng	99
29) Benzo(b)fluoranthene	22.80	252	16356	0.95	ng	99
30) Benzo(k)fluoranthene	22.85	252	13208	0.89	ng	99
31) Benzo(a)pyrene	23.37	252	13253	0.99	ng	99
32) Dibenzo(a,h)anthracene	25.71	278	11396	0.96	ng	99
33) Benzo(g,h,i)perylene	26.39	276	12584	0.96	ng	97

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

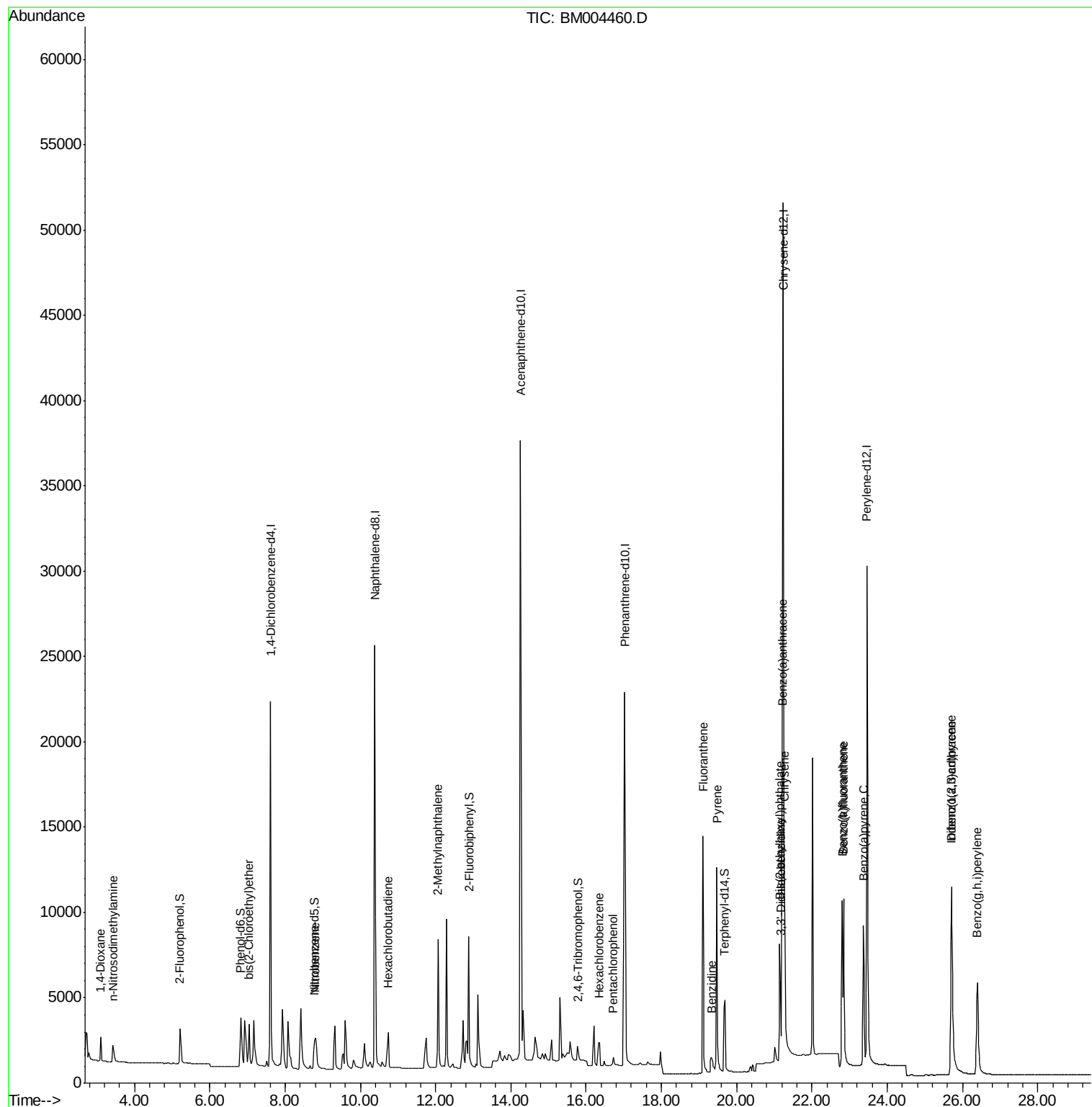
Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\
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ALS Vial : 10 Sample Multiplier: 1

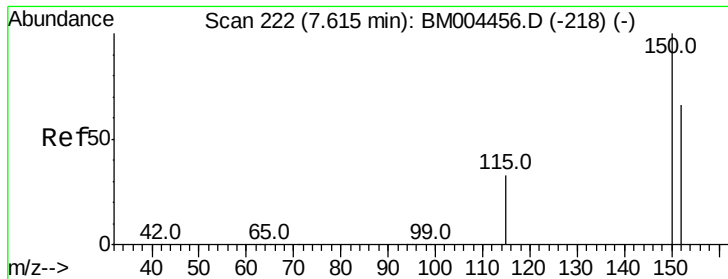
Instrument :
BNA_M
ClientSampleId :
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#1

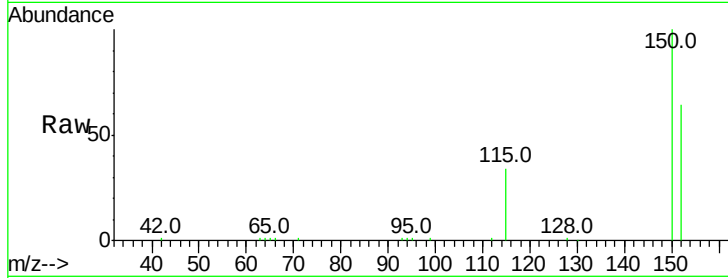
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.61 min Scan# 222
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	123.9	185.9
115	53.1	40.6	61.0

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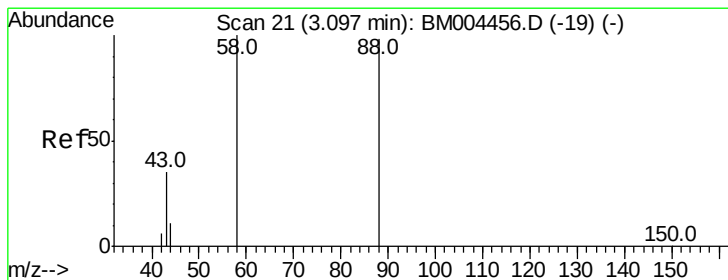
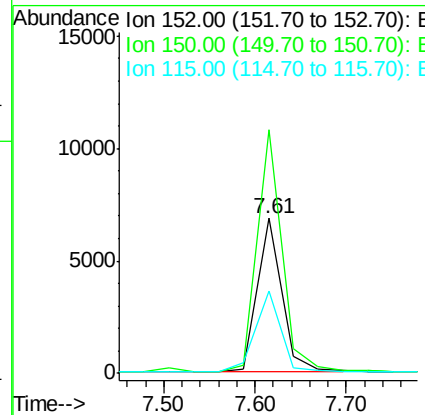
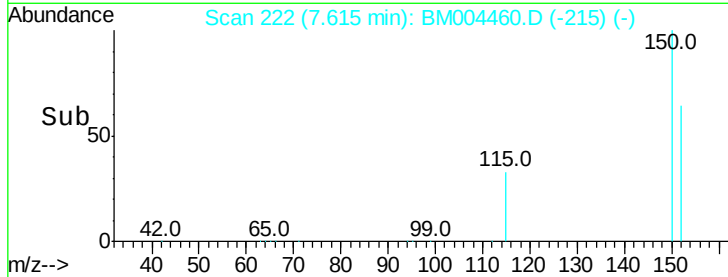


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

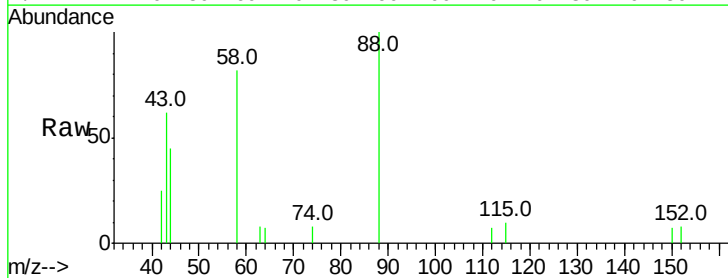
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane
Concen: 1.08 ng
RT: 3.10 min Scan# 21
Delta R.T. 0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	69.2	58.5	87.7
43	25.3	22.2	33.2

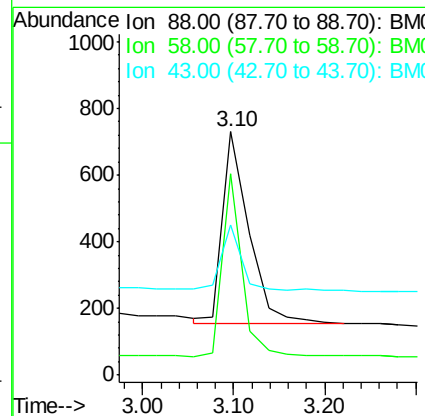
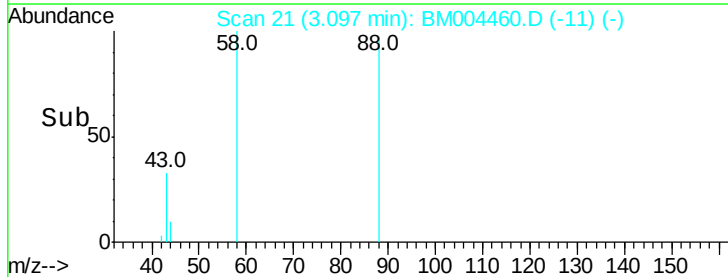


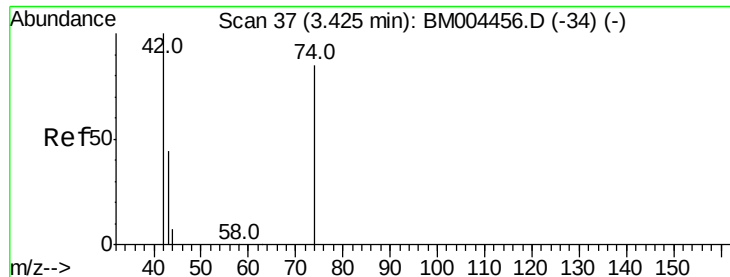
Abundance

Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

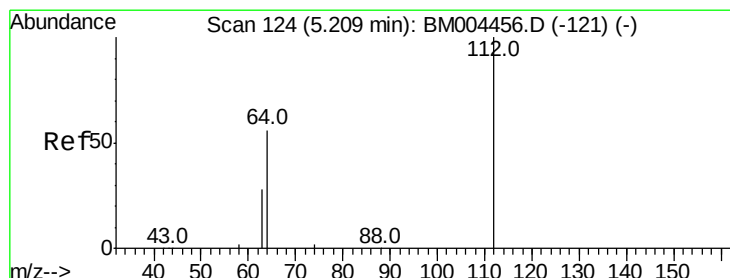
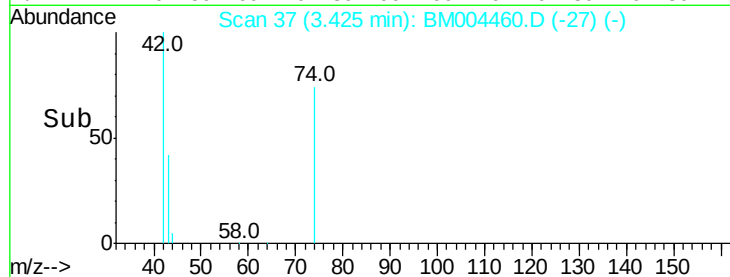
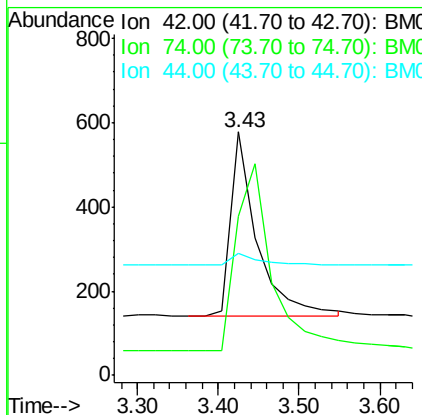
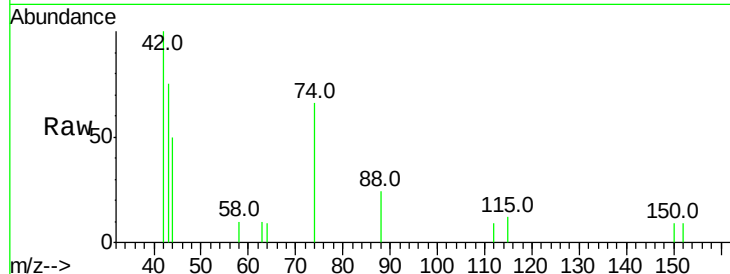
n-Nitrosodimethylamine
 Concen: 1.01 ng
 RT: 3.43 min Scan# 37
 Delta R.T. -0.00 min
 Lab File: BM004460.D
 Acq: 28 Feb 2016 20:56

Instrument :
 BNA_M
 ClientSampleId :
 ICVBM022816

Tot Ion:	42	Resp:	966
Ion	Ratio	Lower	Upper
42	100		
74	0.0	0.0	0.0
44	6.8	5.8	8.6

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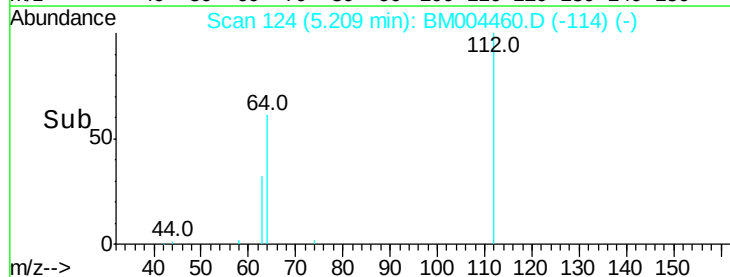
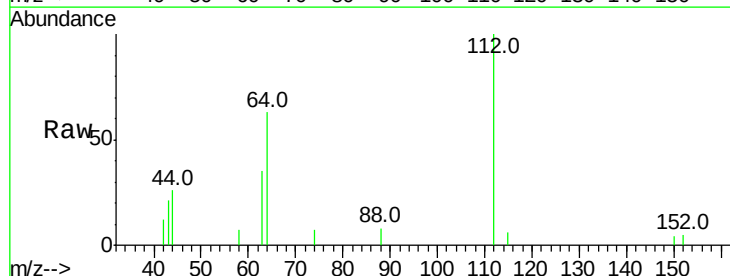
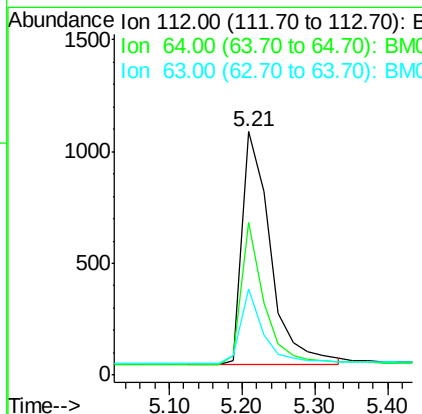
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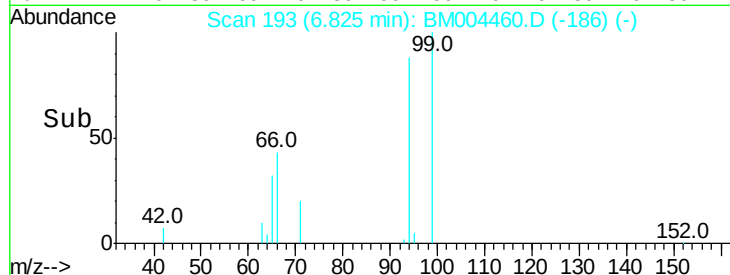
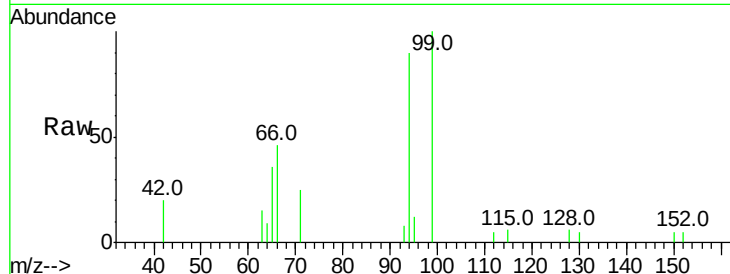
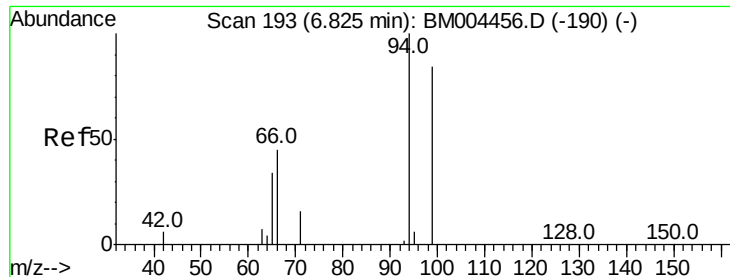


#4

2-Fluorophenol
 Concen: 0.99 ng
 RT: 5.21 min Scan# 124
 Delta R.T. -0.00 min
 Lab File: BM004460.D
 Acq: 28 Feb 2016 20:56

Tgt Ion:	112	Resp:	2790
Ion	Ratio	Lower	Upper
112	100		
64	49.6	39.4	59.2
63	24.9	19.9	29.9





#5

Phenol-d6

Concen: 0.91 ng

RT: 6.83 min Scan# 193

Delta R.T. -0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Tot Ion	99	Resp	2930
Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	0.0	0.0

Instrument :

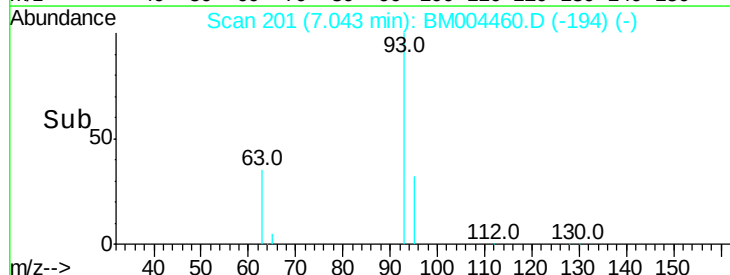
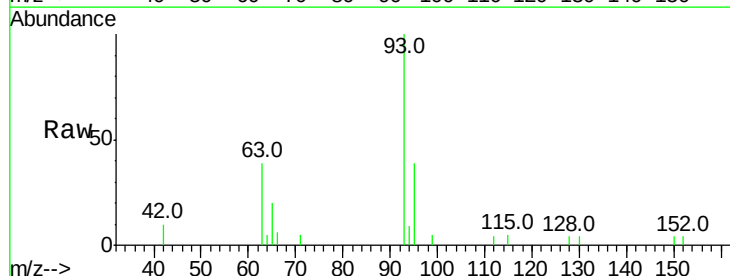
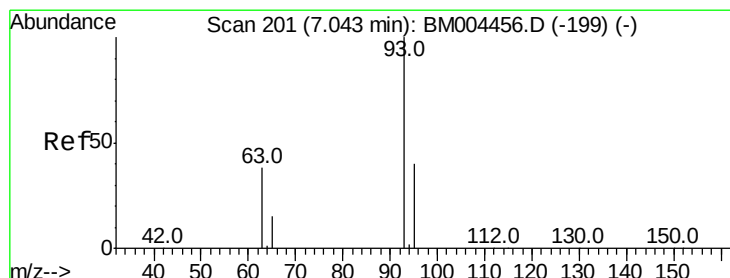
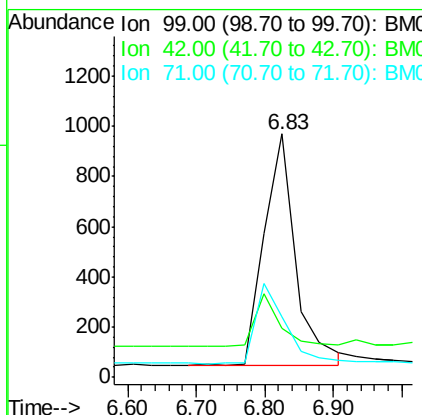
BNA_M

ClientSampleId :

ICVBM022816

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#6

bis(2-Chloroethyl)ether

Concen: 1.03 ng

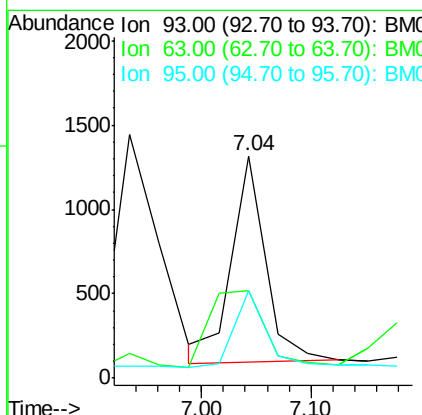
RT: 7.04 min Scan# 201

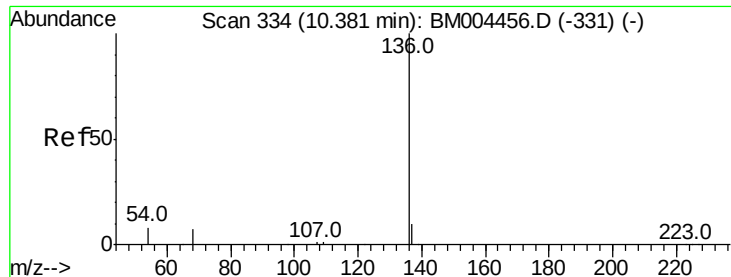
Delta R.T. -0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Tgt Ion	93	Resp	2630
Ion	Ratio	Lower	Upper
93	100		
63	69.4	0.0	0.0#
95	34.0	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: BM004460.D

Acq: 28 Feb 2016 20:56

Instrument :

BNA_M

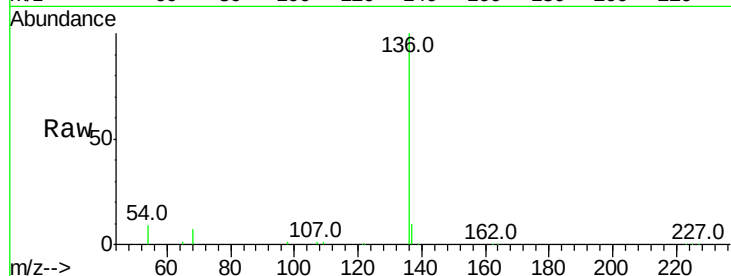
ClientSampleId :

ICVBM022816

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		45776		
137	10.0	8.0	12.0		
54	8.7	7.0	10.6		
68	7.2	5.8	8.6		

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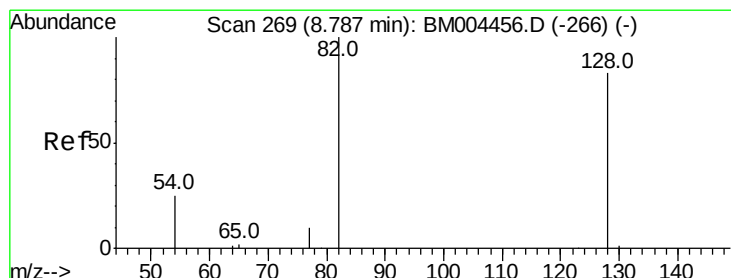
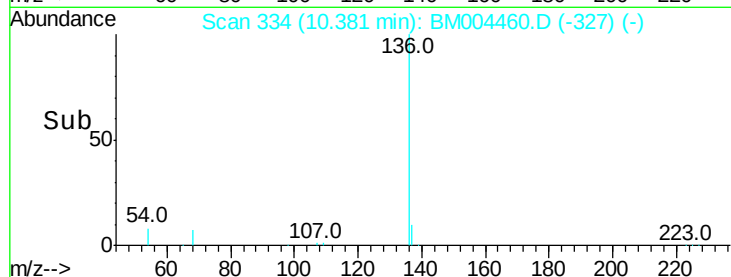
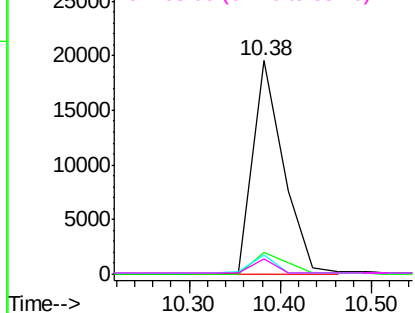


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.93 ng

RT: 8.79 min Scan# 269

Delta R.T. -0.00 min

Lab File: BM004460.D

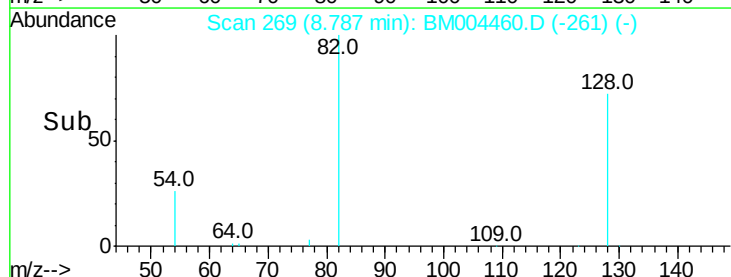
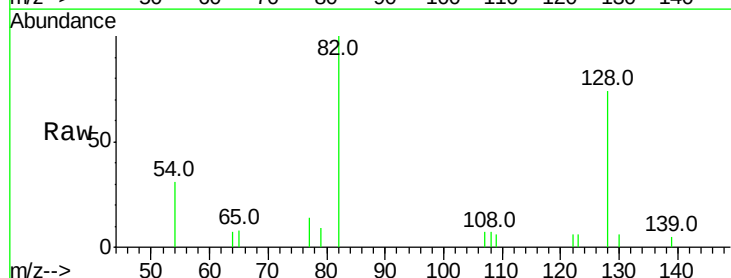
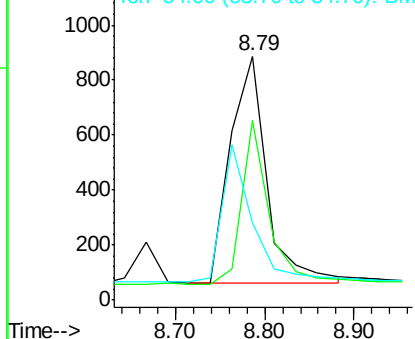
Acq: 28 Feb 2016 20:56

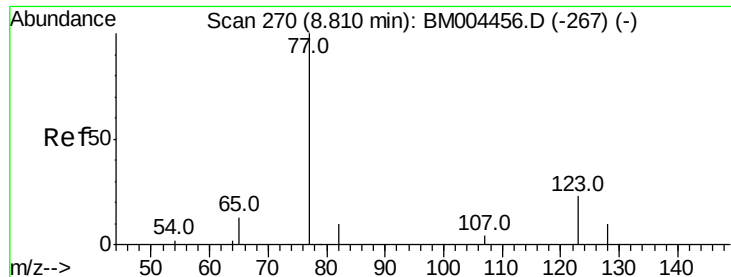
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		2365		
128	73.7	67.0	100.6		
54	31.5	25.2	37.8		

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: 0.97 ng

RT: 8.81 min Scan# 270

Delta R.T. 0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Instrument :

BNA_M

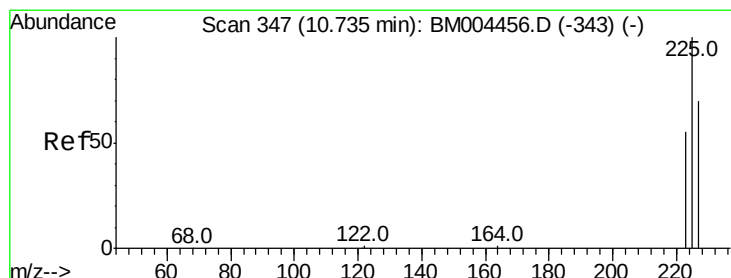
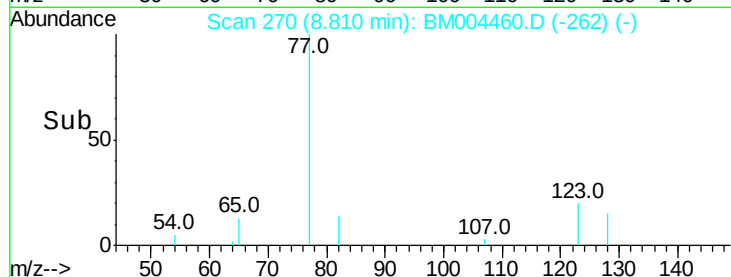
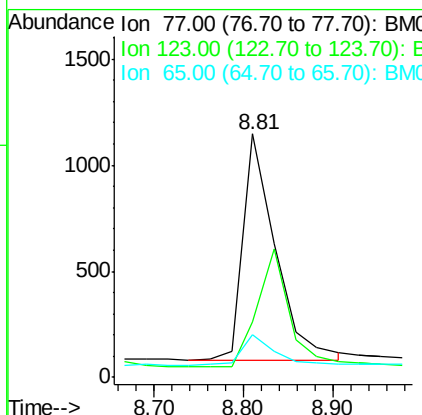
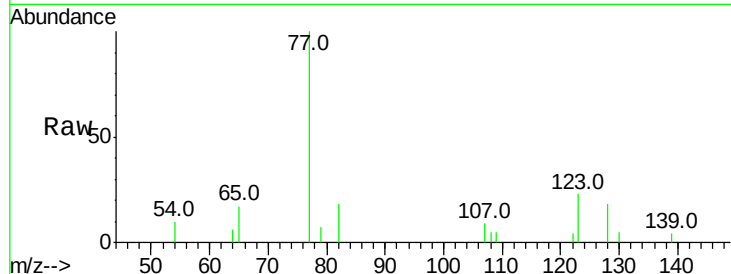
ClientSampleId :

ICVBM022816

Tot Ion:	77	Resp:	2710
Ion	Ratio	Lower	Upper
77	100		
123	0.0	0.0	0.0
65	12.5	10.1	15.1

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#10

Hexachlorobutadiene

Concen: 0.98 ng

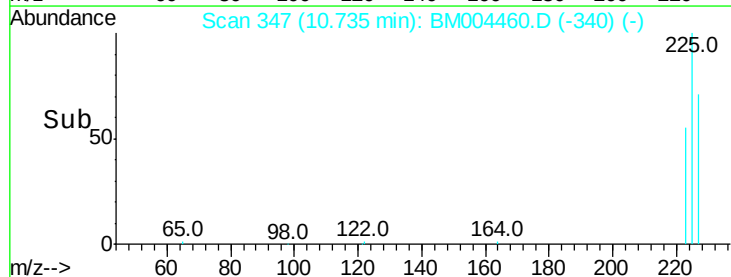
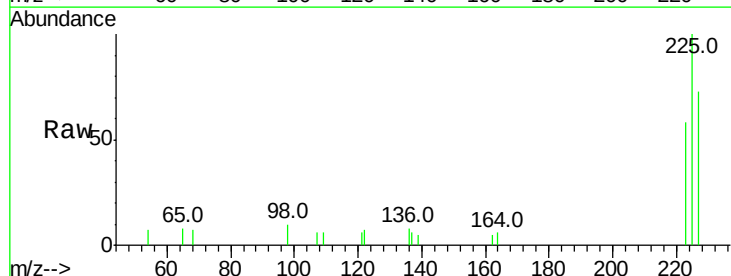
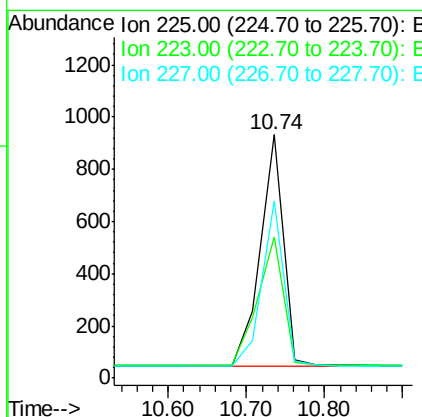
RT: 10.74 min Scan# 347

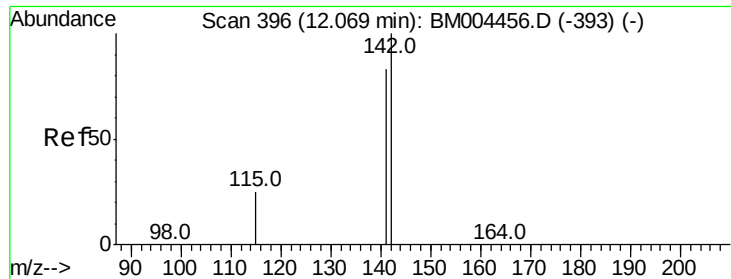
Delta R.T. -0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Tgt Ion:	225	Resp:	1838
Ion	Ratio	Lower	Upper
225	100		
223	61.4	48.4	72.6
227	66.4	52.8	79.2





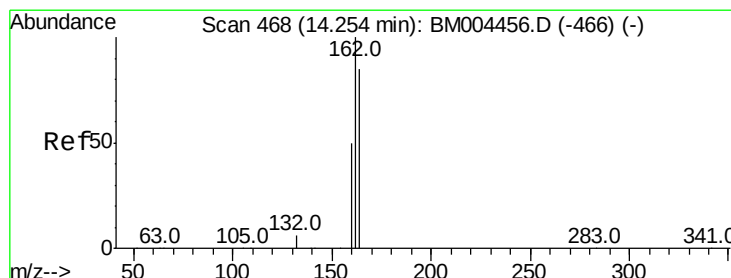
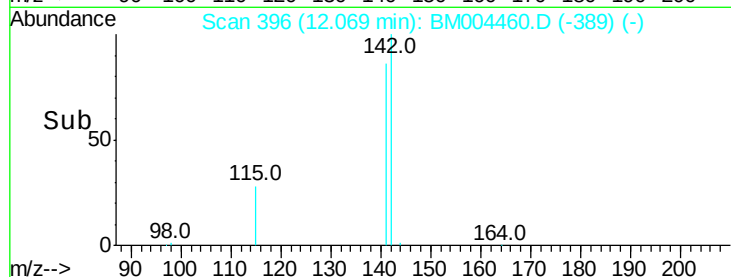
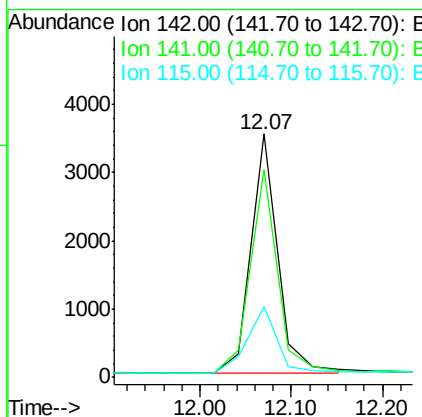
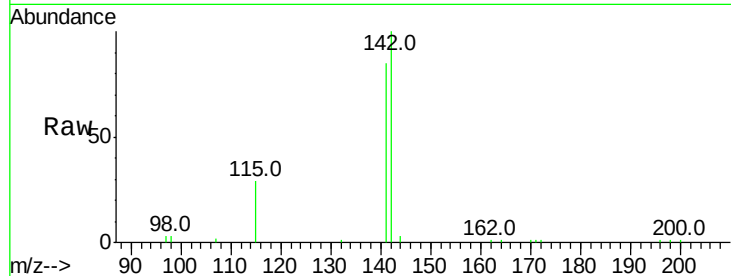
#11
2-Methylnaphthalene
Concen: 1.02 ng
RT: 12.07 min Scan# 396
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.4	66.4	99.6
115	29.0	21.6	32.4

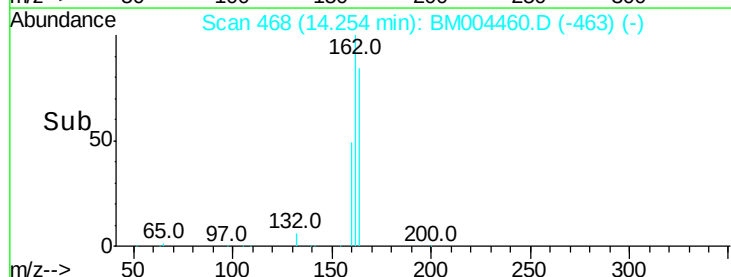
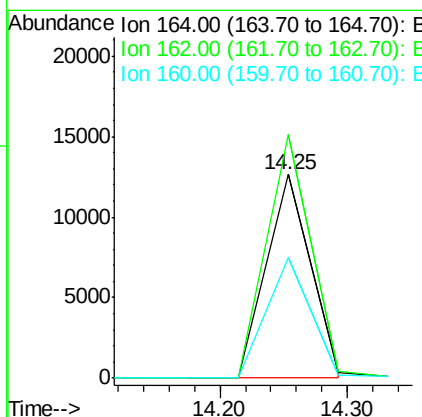
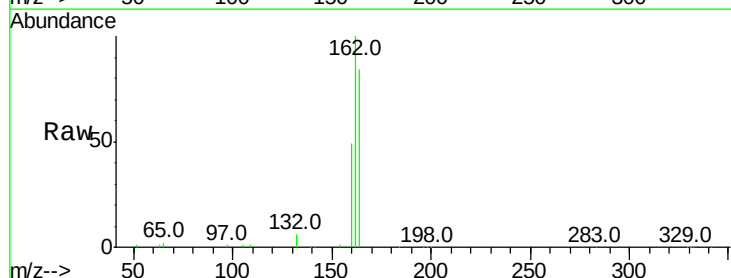
Manual Integrations
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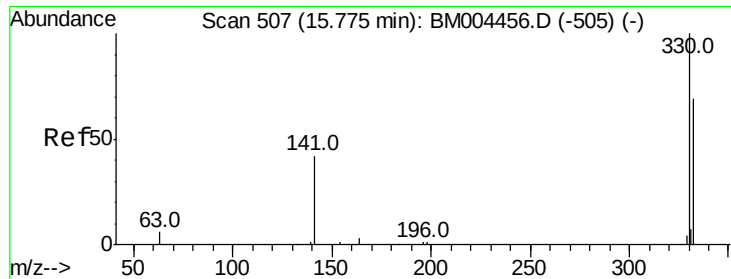
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.25 min Scan# 468
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	119.7	94.6	141.8
160	59.1	47.0	70.4





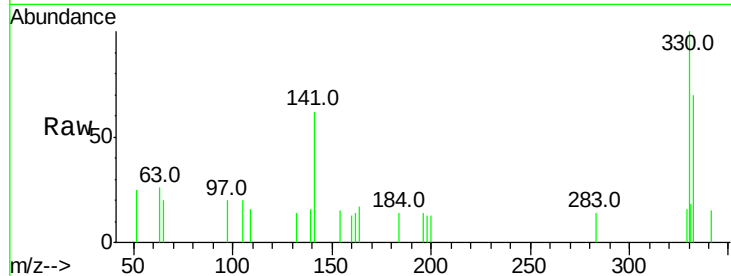
#13
 2,4,6-Tribromophenol
 Concen: 0.79 ng
 RT: 15.78 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: BM004460.D
 Acq: 28 Feb 2016 20:56

Instrument :
 BNA_M
 ClientSampleId :
 ICVBM022816

Tot Ion	Ratio	Lower	Upper
330	100		
332	74.0	59.2	88.8
141	49.4	33.0	49.4

Manual Integrations
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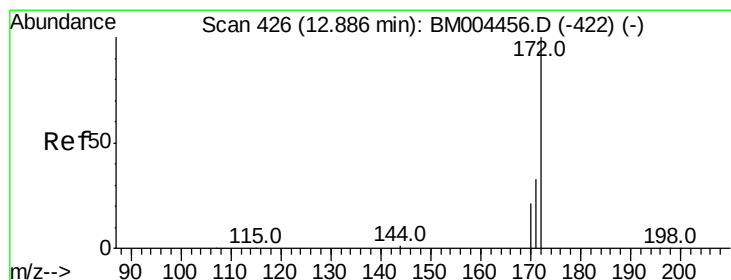
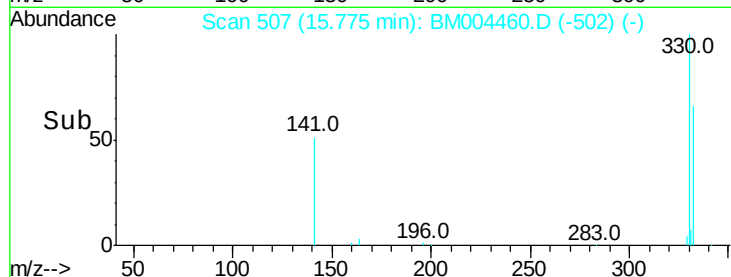
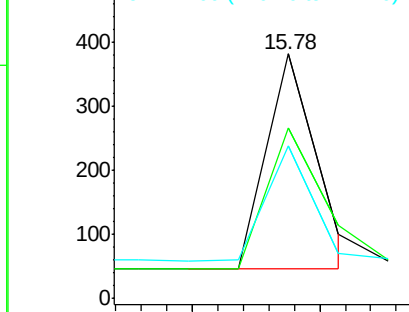


Abundance

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



#14
 2-Fluorobiphenyl
 Concen: 0.94 ng
 RT: 12.89 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: BM004460.D
 Acq: 28 Feb 2016 20:56

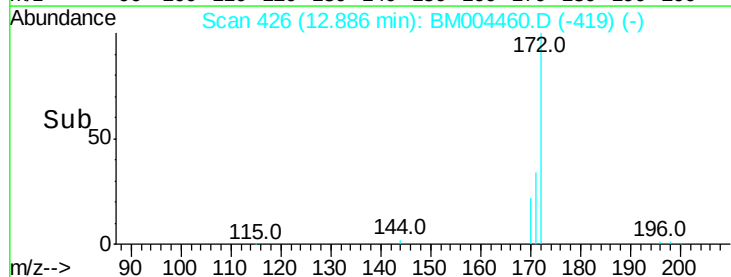
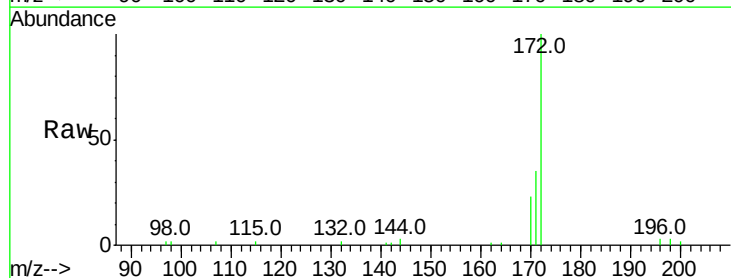
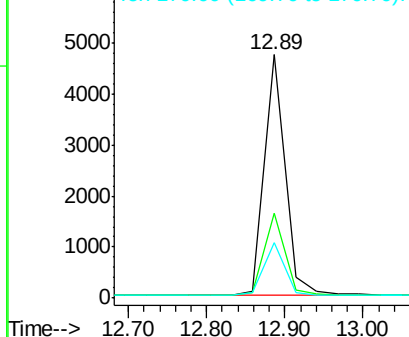
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.2	40.8
170	22.7	17.4	26.0

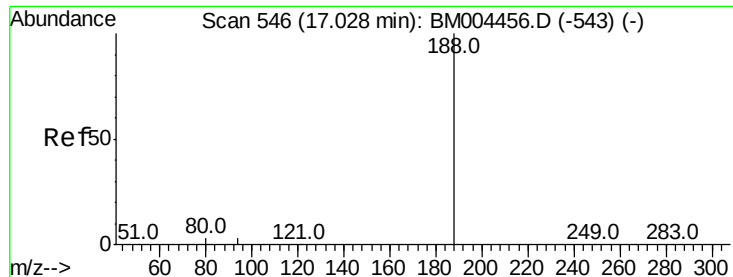
Abundance

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





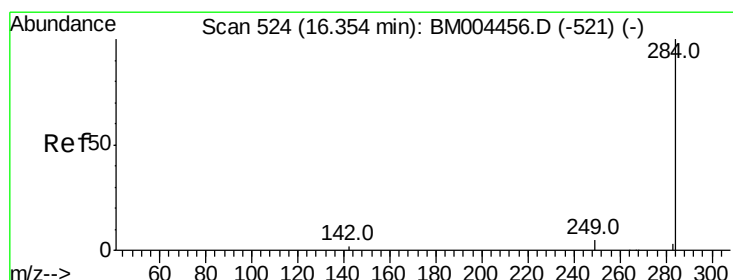
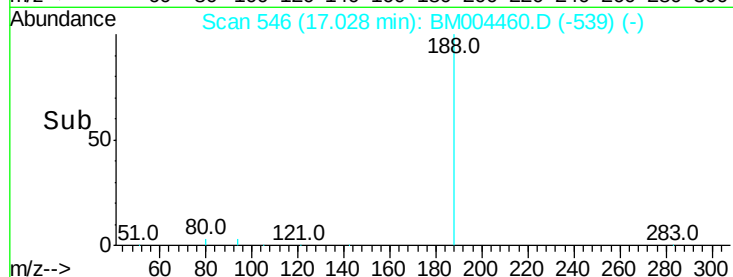
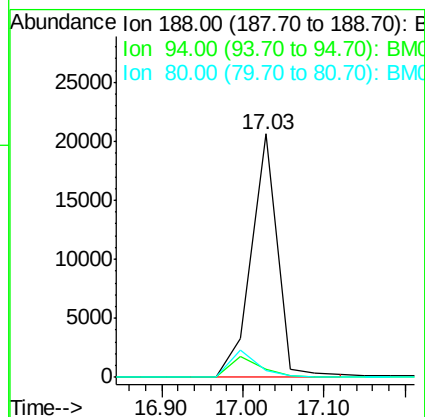
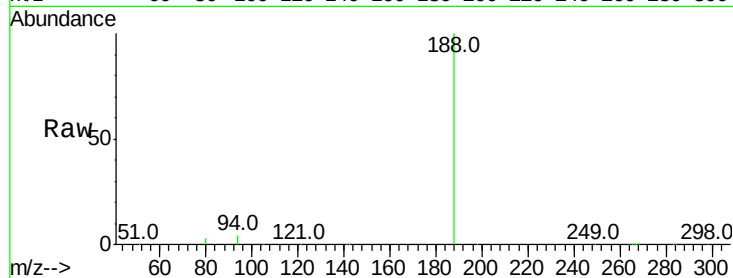
#15
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.03 min Scan# 546
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion:188	Resp:	45750
Ion Ratio	Lower	Upper
188 100		
94 3.6	2.7	4.1
80 2.9	2.2	3.4

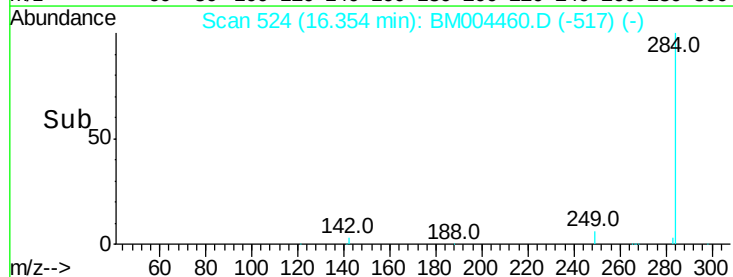
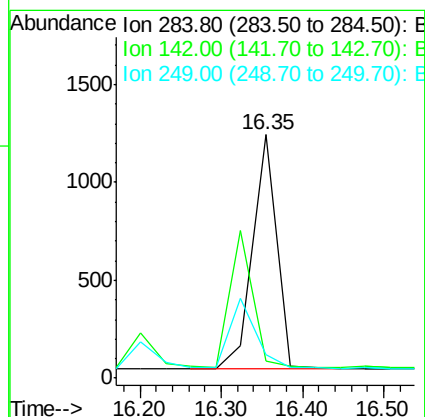
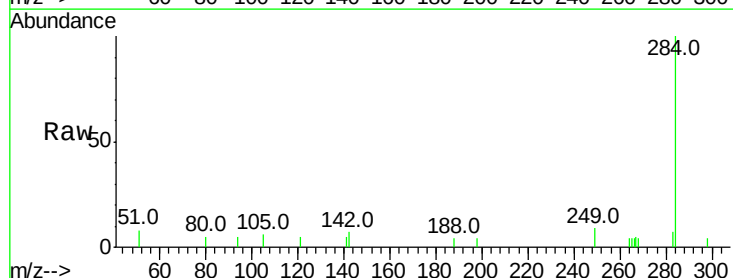
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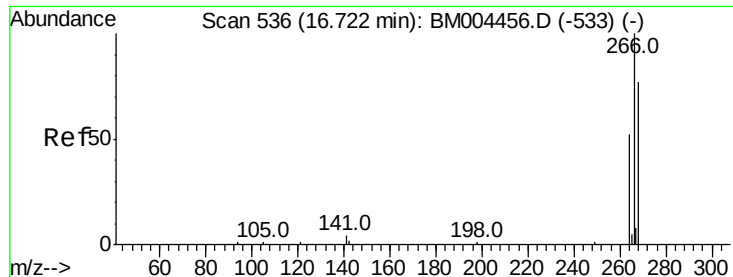
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#16
Hexachlorobenzene
Concen: 1.04 ng
RT: 16.35 min Scan# 524
Delta R.T. 0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Tgt Ion:284	Resp:	2448
Ion Ratio	Lower	Upper
284 100		
142 0.0	0.0	0.0
249 0.0	0.0	0.0





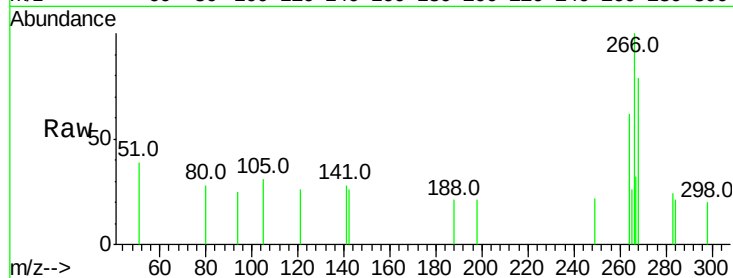
#17
 Pentachlorophenol
 Concen: 0.80 ng
 RT: 16.72 min Scan# 536
 Delta R.T. 0.00 min
 Lab File: BM004460.D
 Acq: 28 Feb 2016 20:56

Instrument :
 BNA_M
 ClientSampleId :
 ICVBM022816

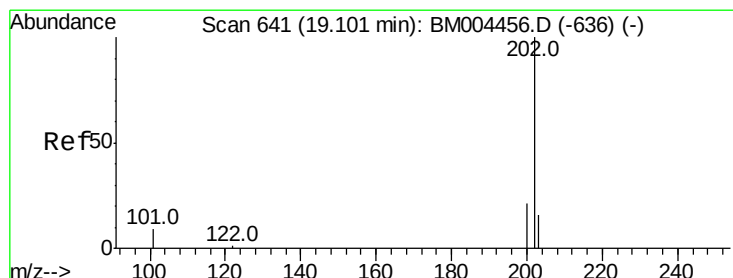
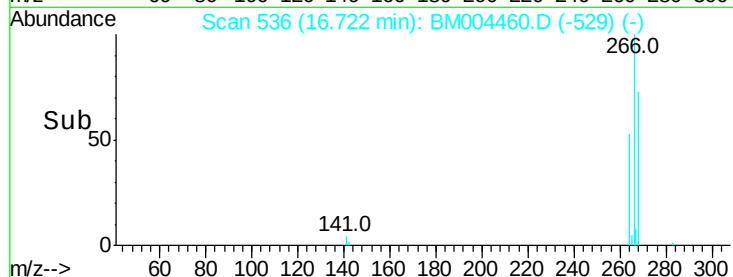
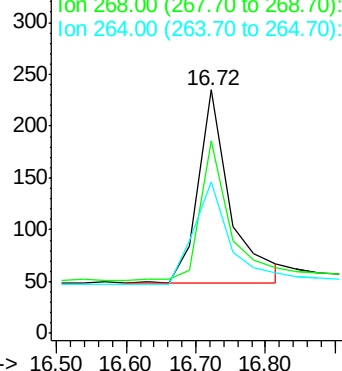
Tot Ion:	266	Resp:	591
Ion Ratio	Lower	Upper	
266	100		
268	79.1	66.8	100.2
264	62.1	49.4	74.0

Manual Integrations
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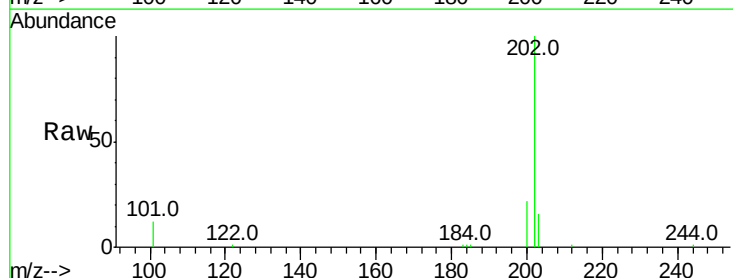


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

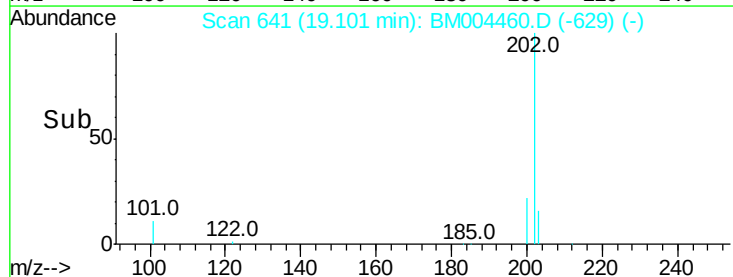
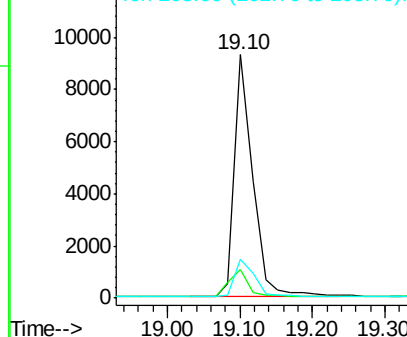


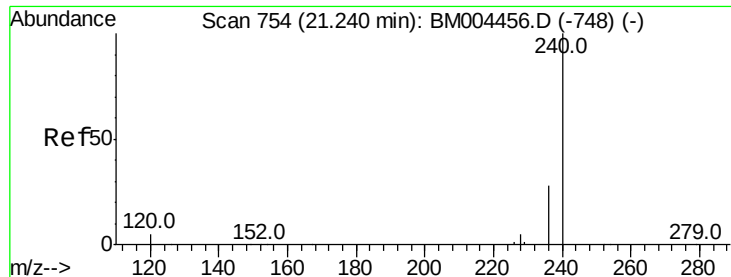
#18
 Fluoranthene
 Concen: 0.89 ng
 RT: 19.10 min Scan# 641
 Delta R.T. -0.00 min
 Lab File: BM004460.D
 Acq: 28 Feb 2016 20:56

Tgt Ion:	202	Resp:	16148
Ion Ratio	Lower	Upper	
202	100		
101	11.9	9.4	14.0
203	17.2	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





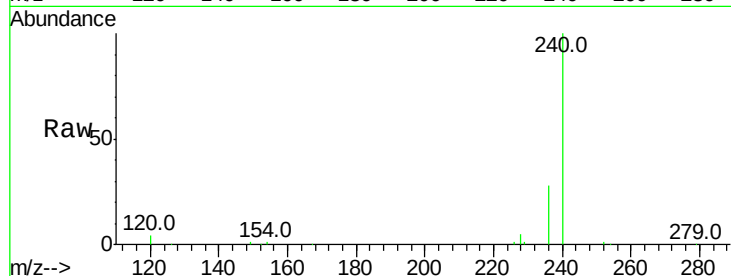
#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.24 min Scan# 754
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion	Ratio	Lower	Upper
240	100		
120	4.1	4.0	6.0
236	28.0	22.7	34.1

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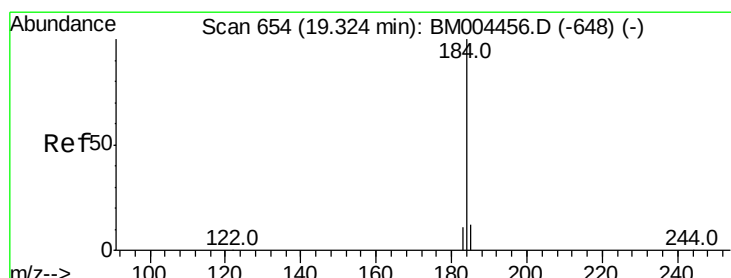
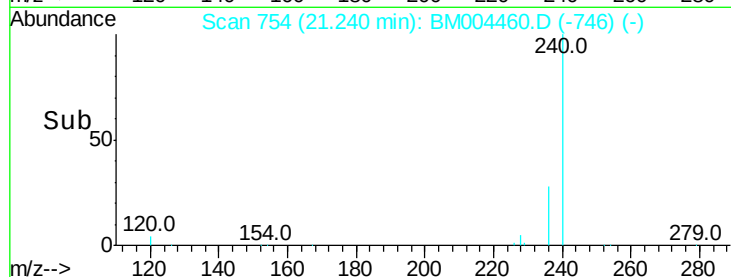
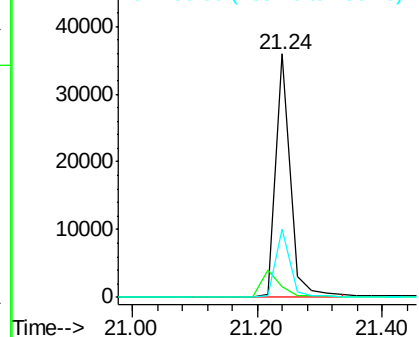


Abundance

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



#20
Benzidine
Concen: 1.16 ng
RT: 19.32 min Scan# 654
Delta R.T. 0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

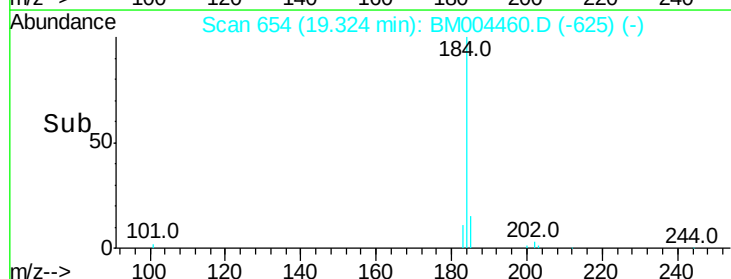
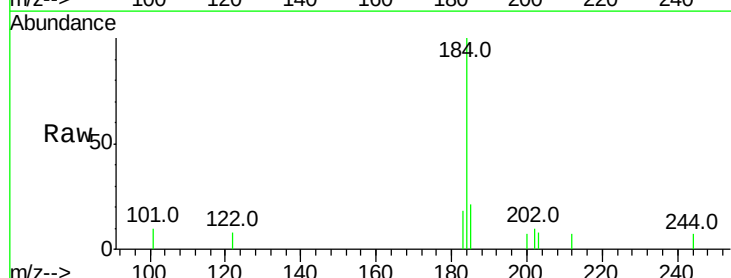
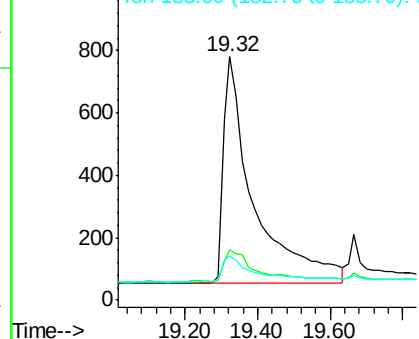
Tgt Ion	Ratio	Lower	Upper
184	100		
185	20.8	20.8	31.2#
183	18.2	18.5	27.7#

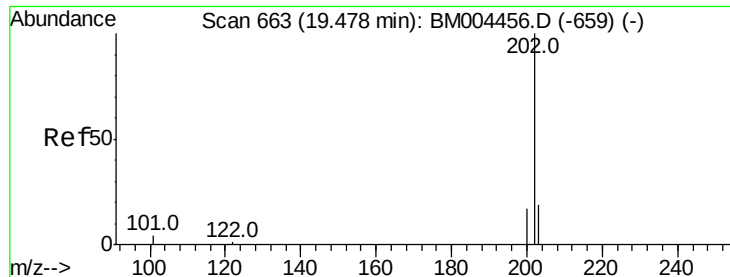
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





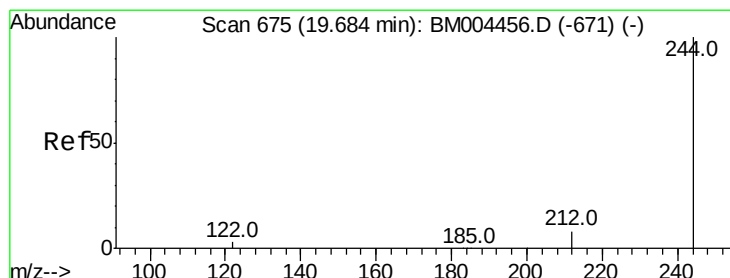
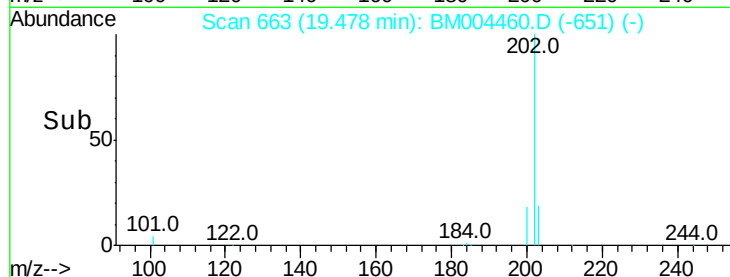
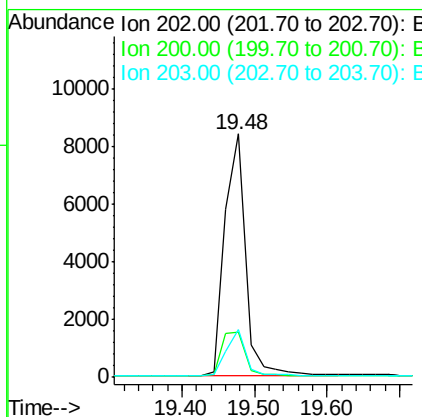
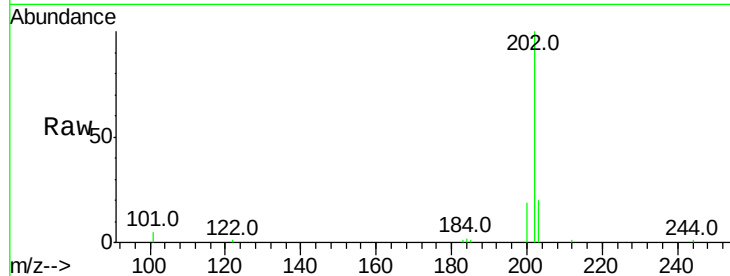
#21
Pvrene
Concen: 0.94 ng
RT: 19.48 min Scan# 663
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	17.6	13.9	20.9

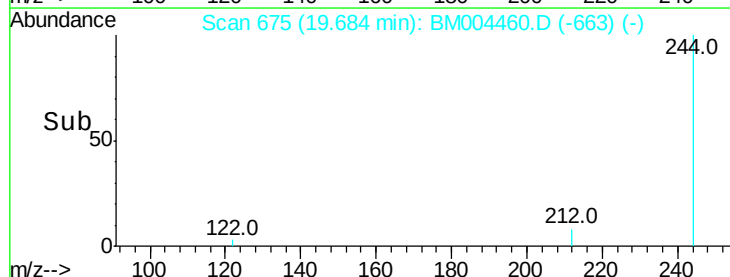
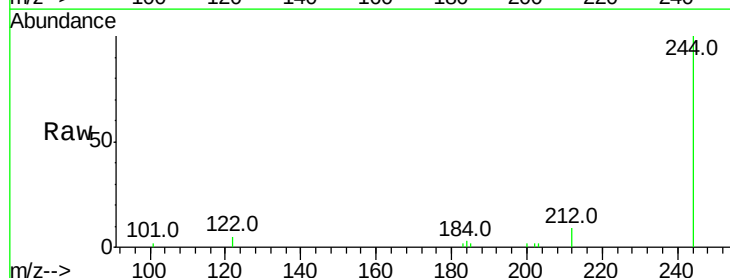
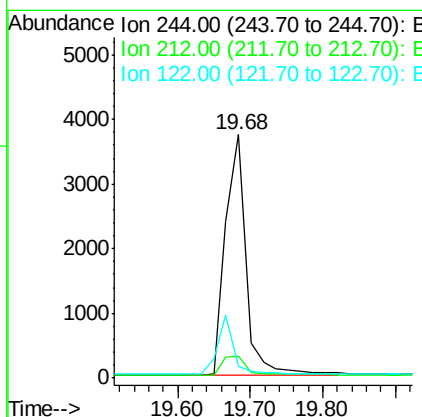
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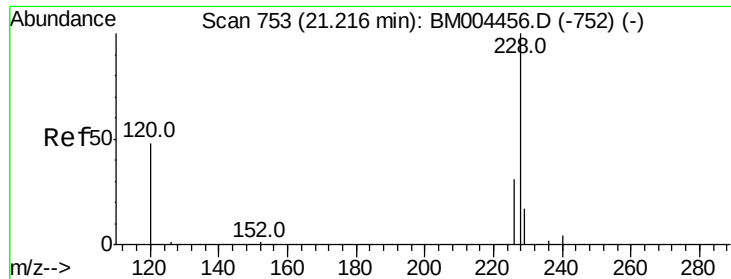
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#22
Terphenyl-d14
Concen: 0.97 ng
RT: 19.68 min Scan# 675
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.4	11.2
122	5.1	4.2	6.2





#23

Benzo(a)anthracene

Concen: 0.89 ng/mL

RT: 21.22 min Scan# 753

Delta R.T. -0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Instrument :

BNA_M

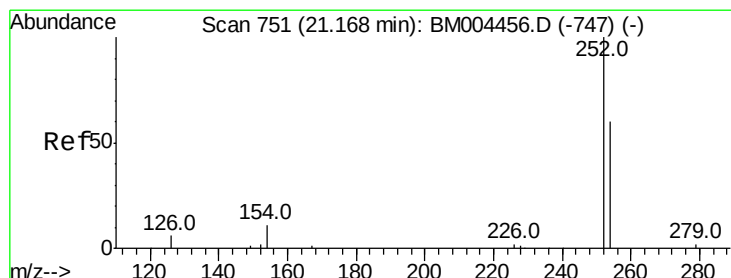
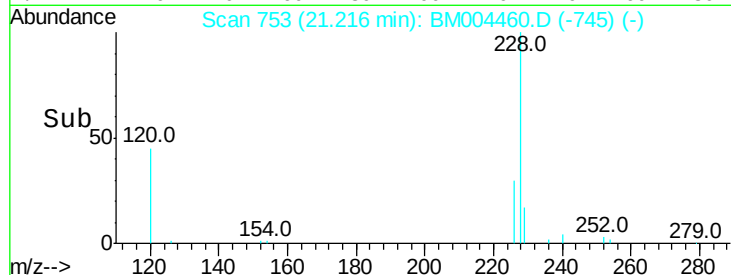
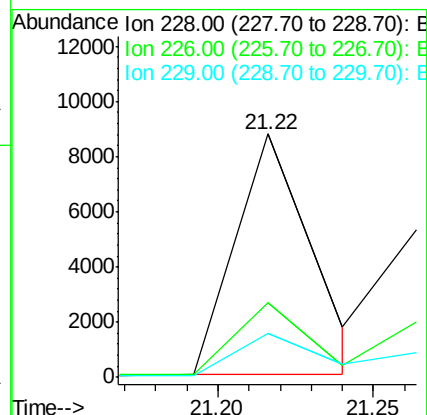
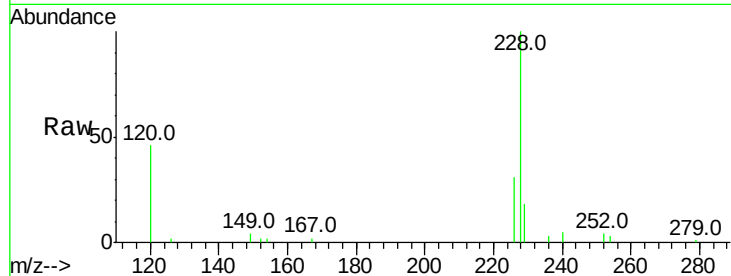
ClientSampleId :

ICVBM022816

Tot Ion:	228	Resp:	14979
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.1	37.7
229	17.8	14.2	21.4

Manual Integrations
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#24

3,3'-Dichlorobenzidine

Concen: 1.05 ng/mL

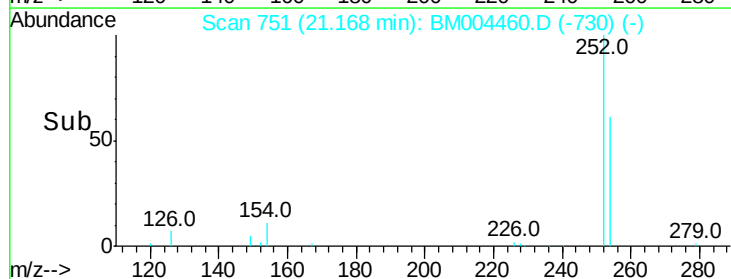
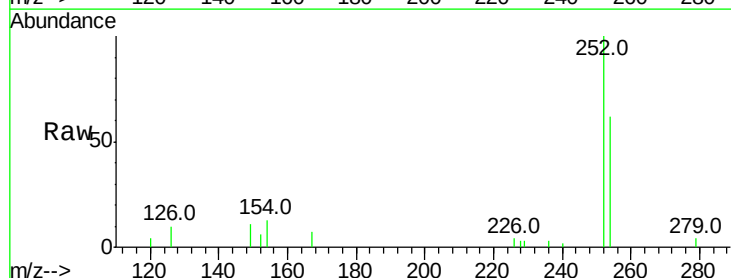
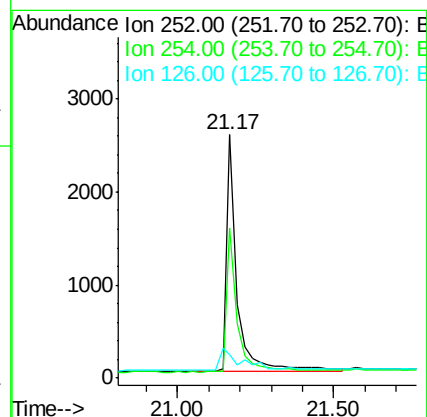
RT: 21.17 min Scan# 751

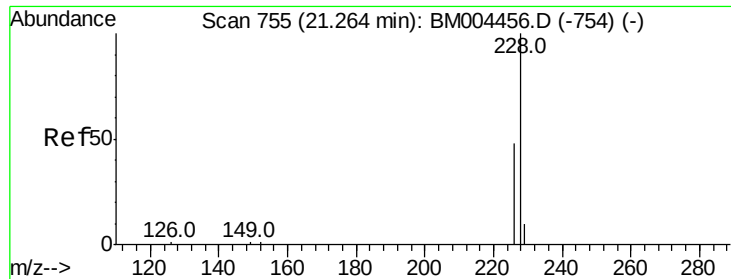
Delta R.T. -0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Tgt Ion:	252	Resp:	6053
Ion Ratio	Lower	Upper	
252	100		
254	61.9	48.7	73.1
126	9.6	8.2	12.2





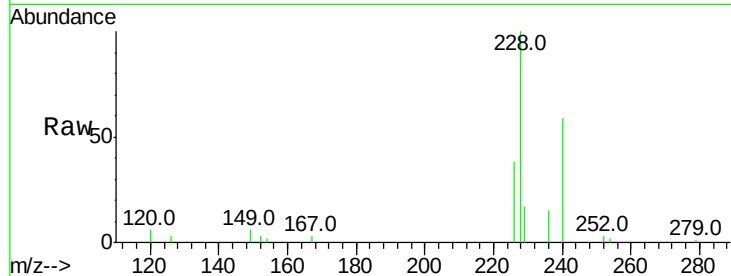
#25
Chrysene
Concen: 0.84 ng m
RT: 21.26 min Scan# 755
Delta R.T. 0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

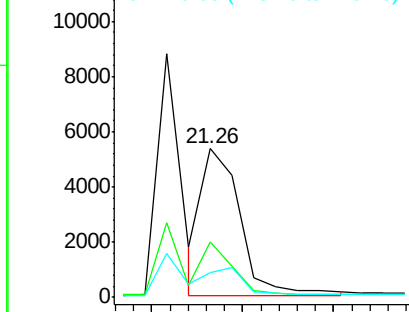
Tot Ion	Ratio	Lower	Upper
228	100		
226	37.5	31.0	46.6
229	16.7	13.4	20.2

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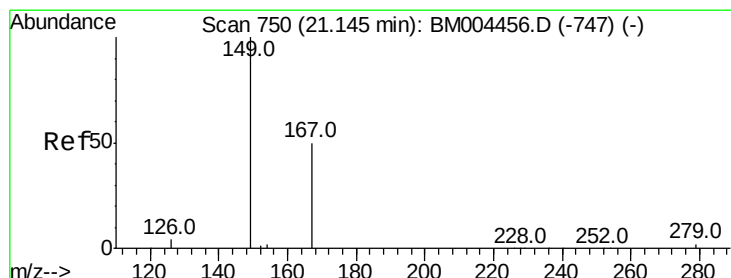
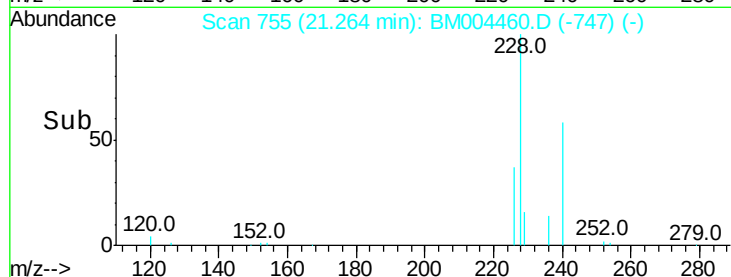
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



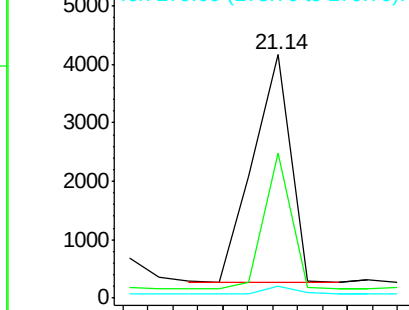
Time-->



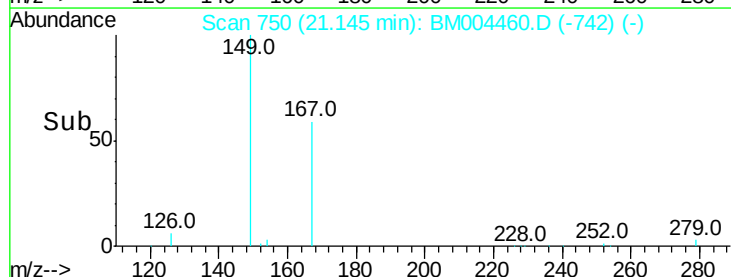
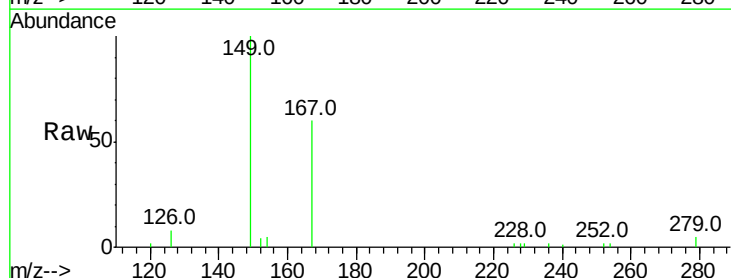
#26
Bis(2-ethylhexyl)phthalate
Concen: 0.81 ng
RT: 21.14 min Scan# 750
Delta R.T. 0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

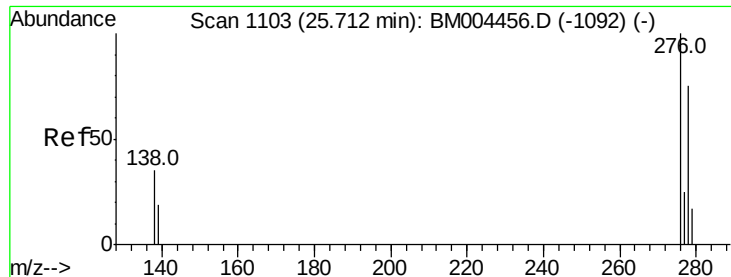
Tgt Ion	Ratio	Lower	Upper
149	100		
167	43.1	33.1	49.7
279	3.0	2.0	3.0#

Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



Time-->





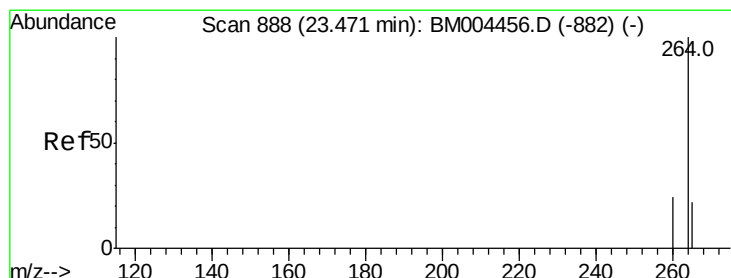
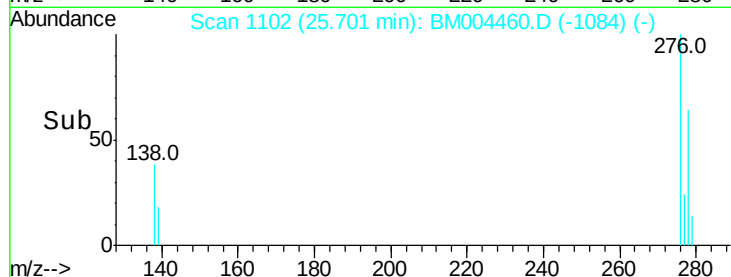
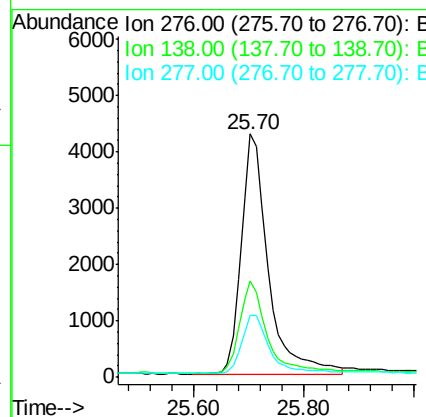
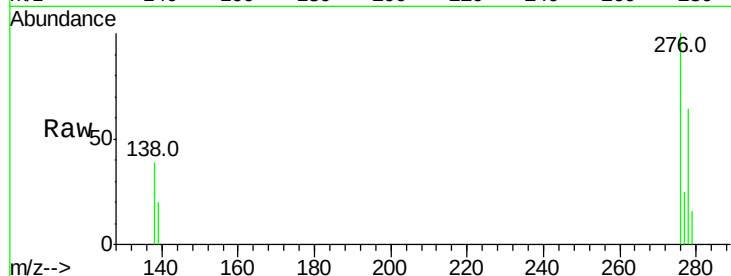
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.95 ng
RT: 25.70 min Scan# 1102
Delta R.T. -0.01 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion	Ratio	Resp	Lower	Upper
276	100	14582		
138	38.0		30.0	45.0
277	24.9		19.8	29.8

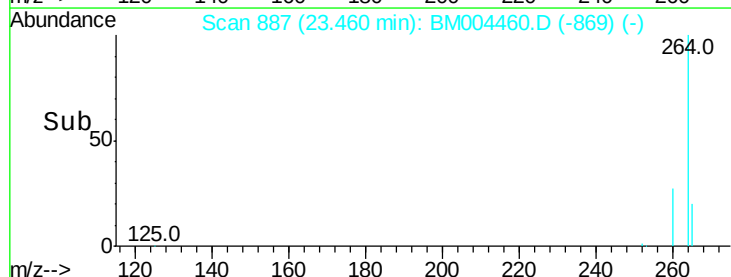
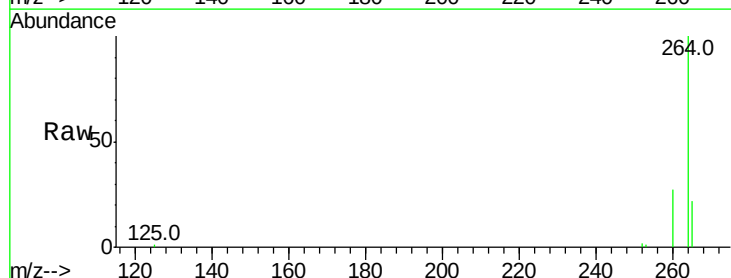
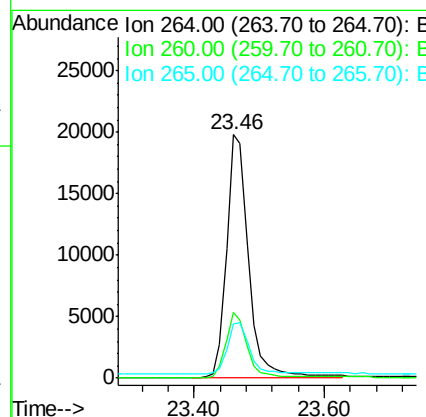
Manual Integrations
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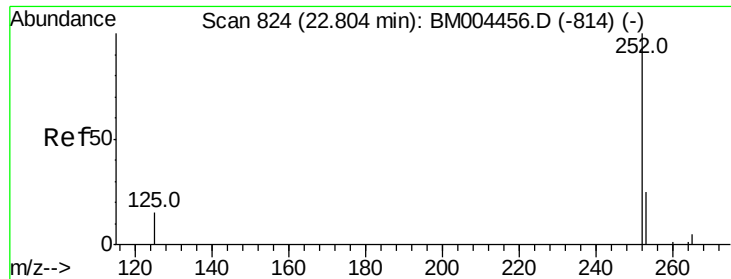
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.46 min Scan# 887
Delta R.T. -0.01 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	45593		
260	26.8		19.4	29.2
265	22.1		18.9	28.3





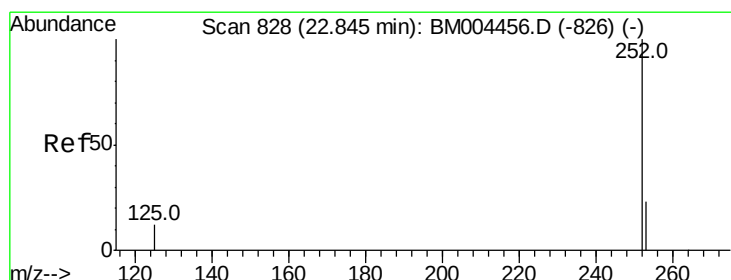
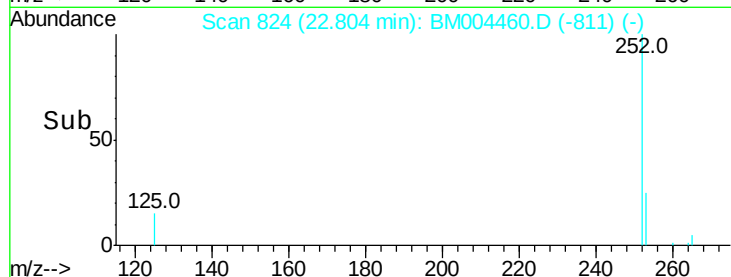
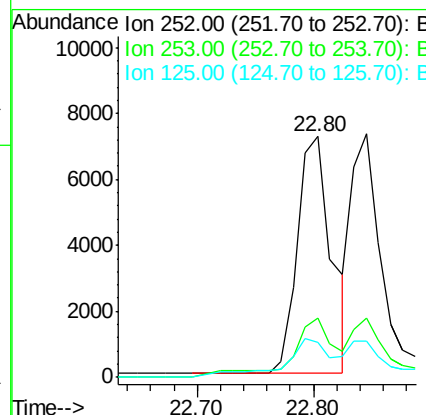
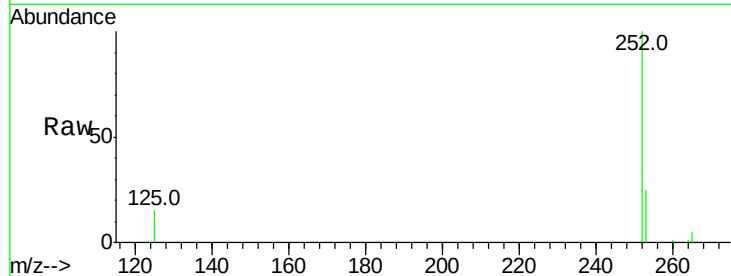
#29
Benzo(b)fluoranthene
Concen: 0.95 ng
RT: 22.80 min Scan# 824
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Instrument :
BNA_M
ClientSampleId :
ICVBM022816

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.8	29.6
125	14.7	12.2	18.2

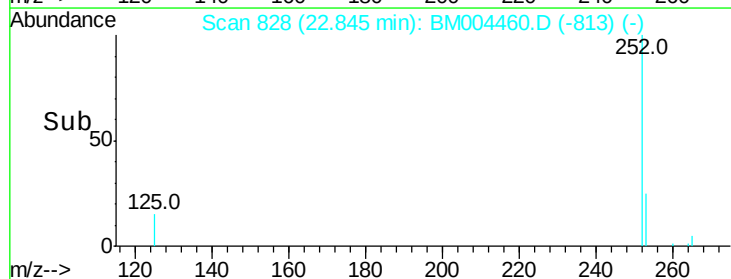
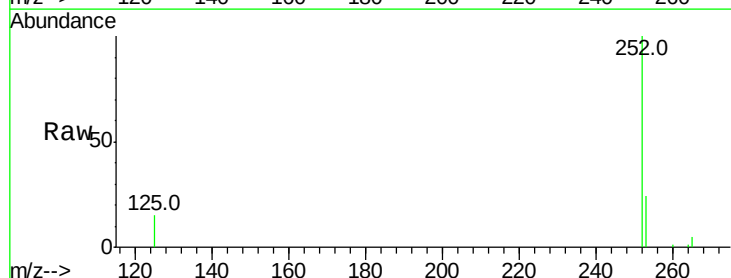
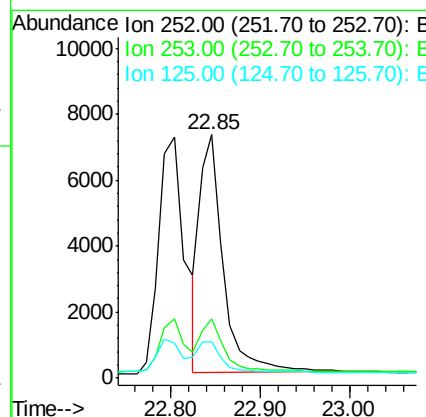
Manual Integrations
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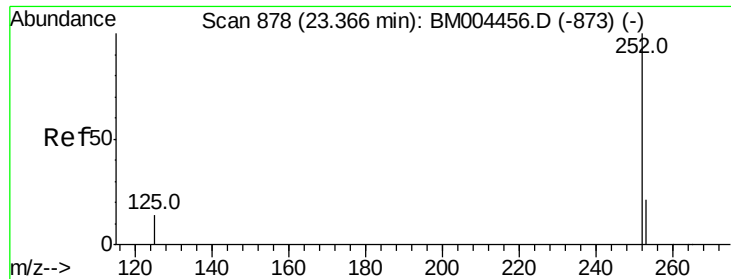
UMANGI
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#30
Benzo(k)fluoranthene
Concen: 0.89 ng
RT: 22.85 min Scan# 828
Delta R.T. -0.00 min
Lab File: BM004460.D
Acq: 28 Feb 2016 20:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.3	28.9
125	14.8	12.4	18.6





#31

Benzo(a)pyrene

Concen: 0.99 ng

RT: 23.37 min Scan# 878

Delta R.T. -0.00 min

Lab File: BM004460.D

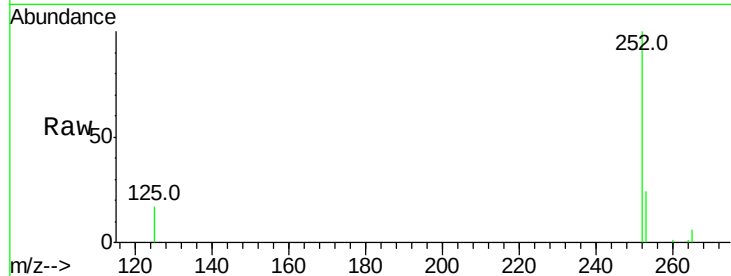
Acq: 28 Feb 2016 20:56

Instrument :

BNA_M

ClientSampleId :

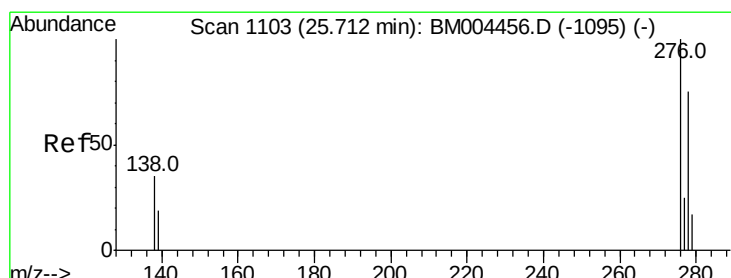
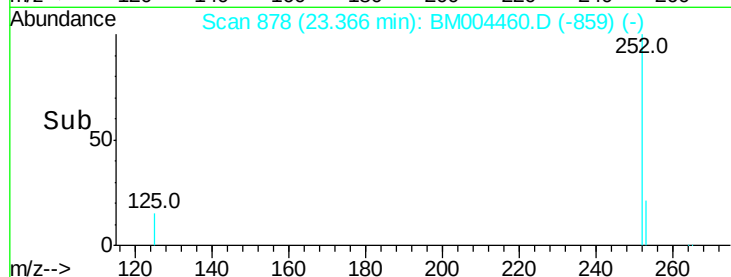
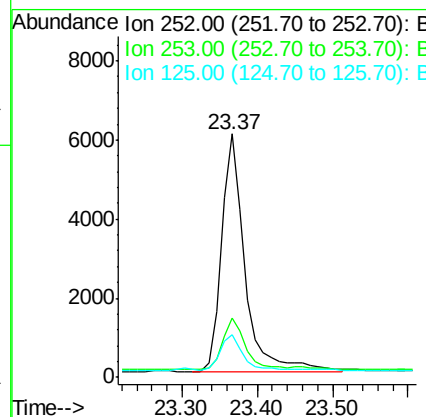
ICVBM022816



Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.3	28.9
125	17.4	14.4	21.6

Manual Integrations
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#32

Dibenzo(a,h)anthracene

Concen: 0.96 ng

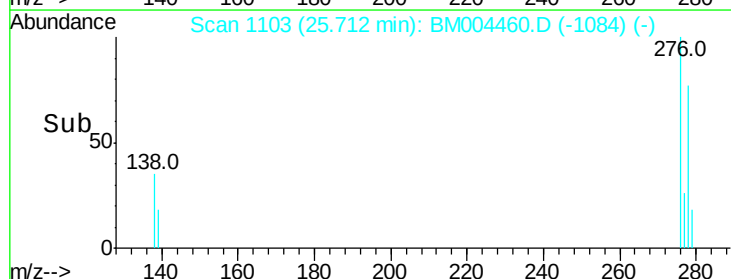
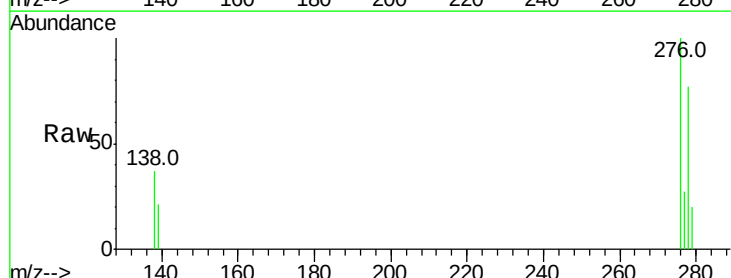
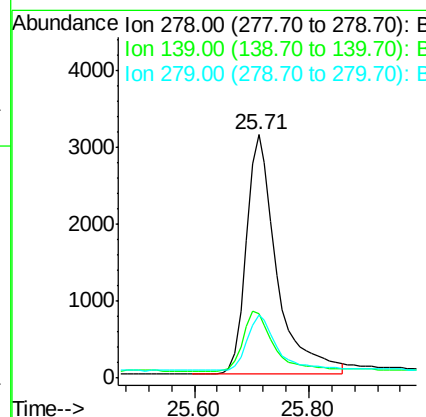
RT: 25.71 min Scan# 1103

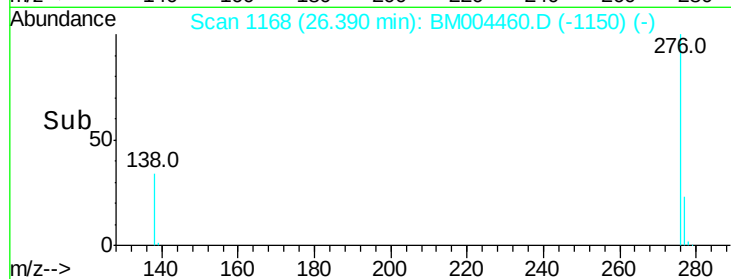
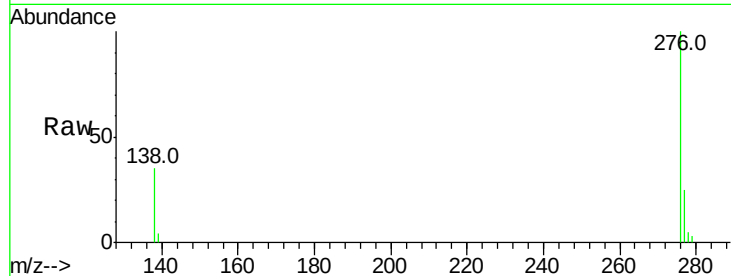
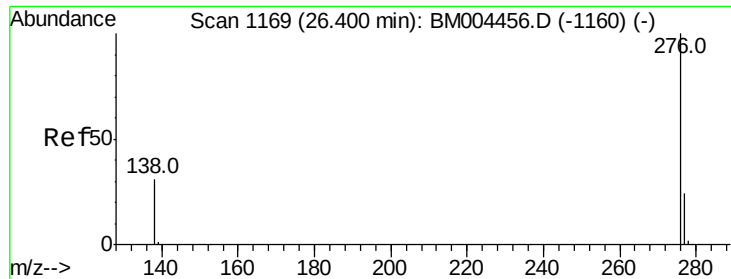
Delta R.T. -0.00 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.6	22.3	33.5
279	25.7	20.7	31.1





#33

Benzo(a,h,i)perylene

Concen: 0.96 ng

RT: 26.39 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BM004460.D

Acq: 28 Feb 2016 20:56

Instrument :

BNA_M

ClientSampleId :

ICVBM022816

Tot Ion:	276	Resp:	12584
Ion Ratio	Lower	Upper	
276	100		
277	24.9	20.4	30.6
138	35.3	26.4	39.6

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:59 PM

