

Data Path : Z:\HPCHEM1\BNA M\DATA\BM050115\
 Data File : BM001181.D
 Acq On : 02 May 2015 23:35
 Operator : TP/IZ
 Sample : G2058-09MSD
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MPE-9MSD

Manual Integrations
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Quant Time: May 04 18:08:07 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIMPAH-BM050115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 04 16:48:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	17309	5.00	ng	0.00
6) Naphthalene-d8	10.31	136	71412	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	40357	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	99586	5.00	ng	0.00
24) Chrysene-d12	21.15	240	83479	5.00	ng	0.00
30) Perylene-d12	23.29	264	65706	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.11	112	13572	4.03	ng	-0.01
5) Phenol-d6	6.71	99	12827	3.09	ng	0.00
7) Nitrobenzene-d5	8.69	82	34118	8.43	ng	0.00
13) 2,4,6-Tribromophenol	15.69	330	30971	15.56	ng	0.00
14) 2-Fluorobiphenyl	12.80	172	111814	8.38	ng	-0.01
26) Terphenyl-d14	19.59	244	115706	10.05	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.01	88	3669	2.26	ng	# 69
3) n-Nitrosodimethylamine	3.34	42	5146	2.43	ng	# 93
8) Nitrobenzene	8.72	77	39176	7.36	ng	93
9) Naphthalene	10.36	128	115060	7.33	ng	99
10) Hexachlorobutadiene	10.65	225	20000	6.61	ng	100
11) 2-Methylnaphthalene	11.98	142	87759	8.15	ng	90
15) Acenaphthylene	13.89	152	169413	9.60	ng	# 100
16) Acenaphthene	14.24	154	118602	9.73	ng	88
17) Fluorene	15.24	166	147365	10.43	ng	99
19) Hexachlorobenzene	16.26	284	50492	9.41	ng	# 97
20) Pentachlorophenol	16.61	266	66661	27.72	ng	95
21) Phenanthrene	16.98	178	241656	9.43	ng	99
22) Anthracene	17.06	178	221623m	10.46	ng	
23) Fluoranthene	19.01	202	272357	10.49	ng	99
25) Pyrene	19.38	202	281904	10.81	ng	99
27) Benzo(a)anthracene	21.13	228	249162	10.59	ng	95
28) Chrysene	21.18	228	226994	9.82	ng	96
29) Indeno(1,2,3-cd)pyrene	25.43	276	175665	8.34	ng	99
31) Benzo(b)fluoranthene	22.65	252	210037	10.38	ng	96
32) Benzo(k)fluoranthene	22.69	252	202912	10.71	ng	96
33) Benzo(a)pyrene	23.19	252	190027	11.13	ng	96
34) Dibenzo(a,h)anthracene	25.44	278	141332	9.44	ng	96
35) Benzo(g,h,i)perylene	26.09	276	143164	9.06	ng	98

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

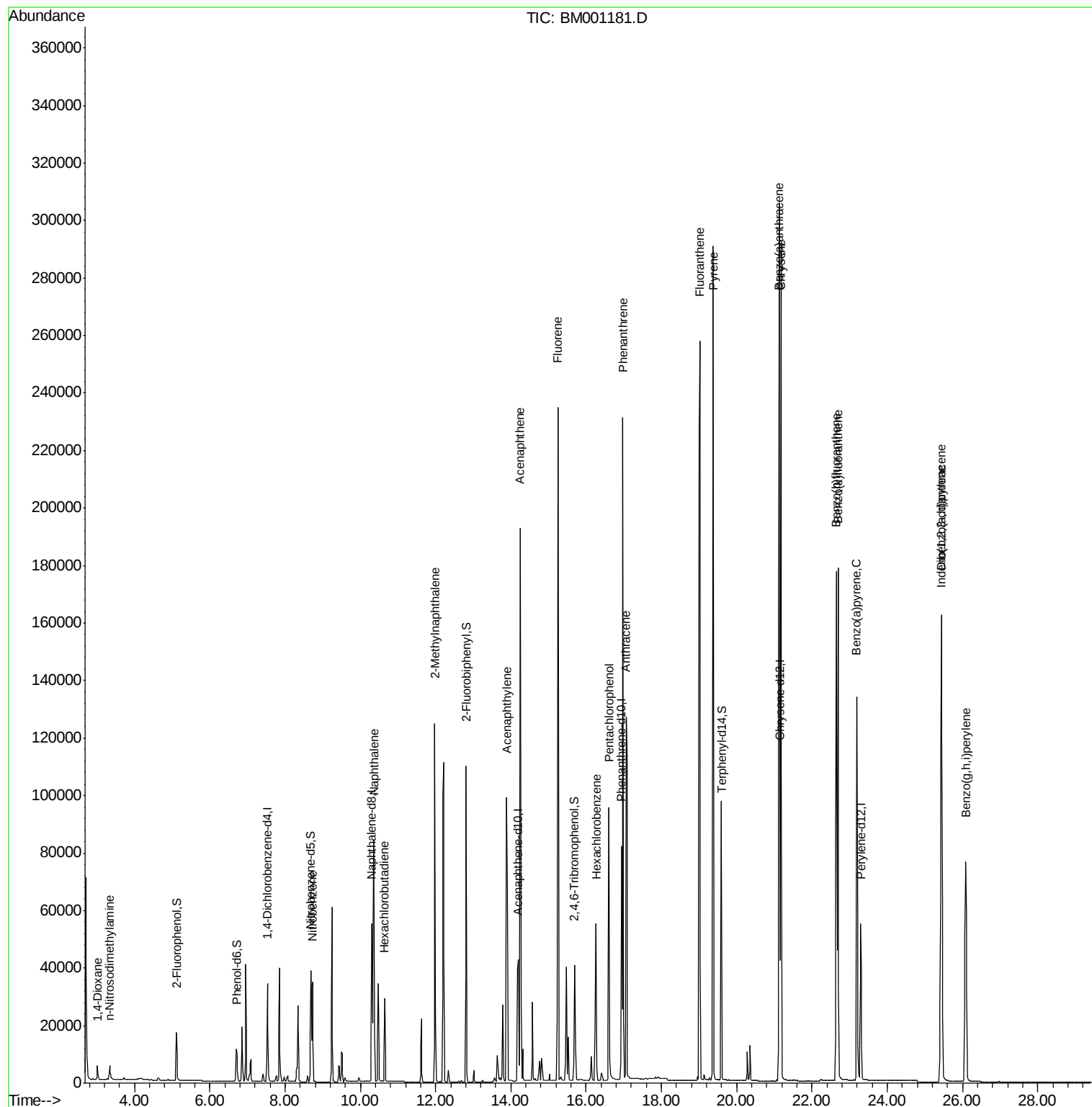
Data Path : Z:\HPCHEM1\BNA M\DATA\BM050115\
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Misc :
ALS Vial : 38 Sample Multiplier: 1

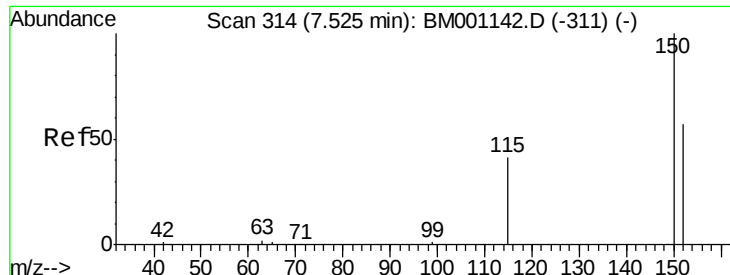
Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

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QLast Update : Mon May 04 16:48:07 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.53 min Scan# 314

Delta R.T. 0.00 min

Lab File: BM001181.D

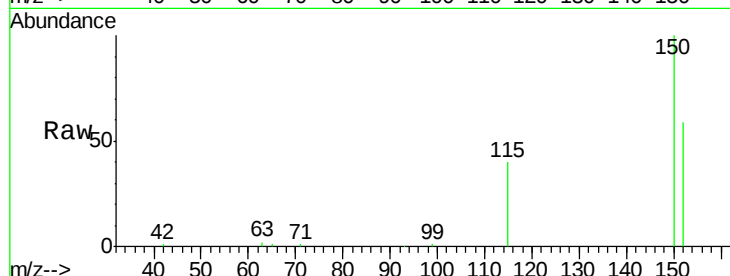
Acq: 02 May 2015 23:35

Instrument :

BNA_M

ClientSampled :

MPE-9MSD



Tot Ion:152 Resp: 17309

Ion Ratio Lower Upper

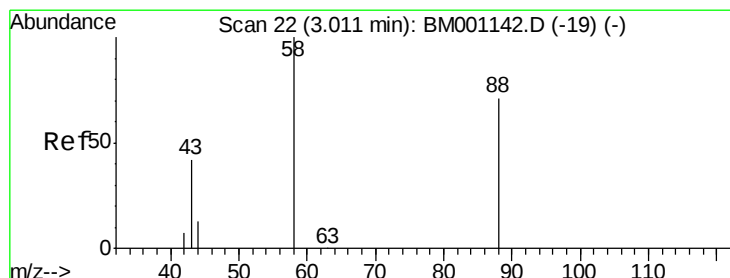
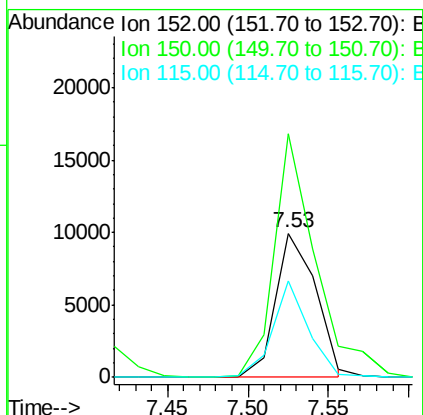
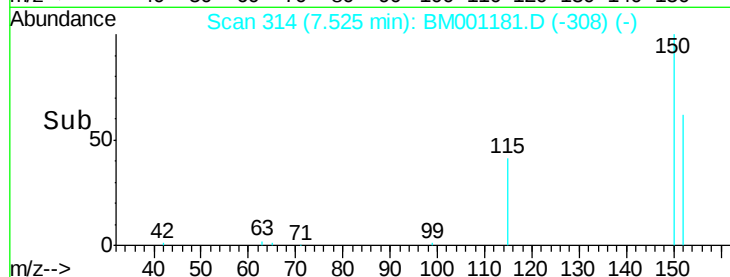
152 100

150 168.8 140.1 210.1

115 67.2 57.8 86.6

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#2

1,4-Dioxane

Concen: 2.26 ng

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

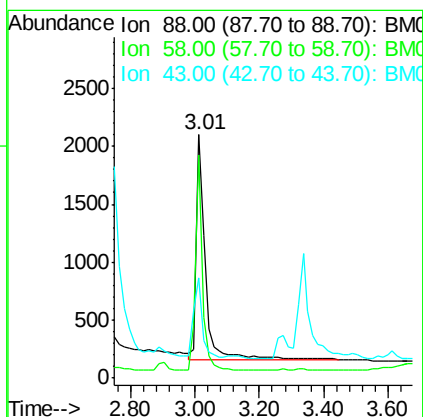
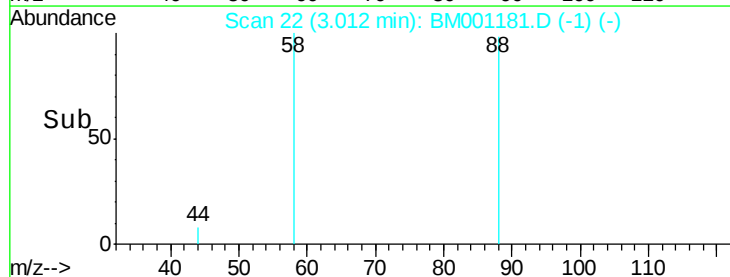
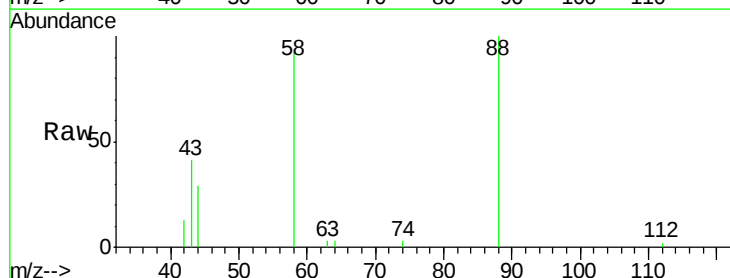
Tgt Ion: 88 Resp: 3669

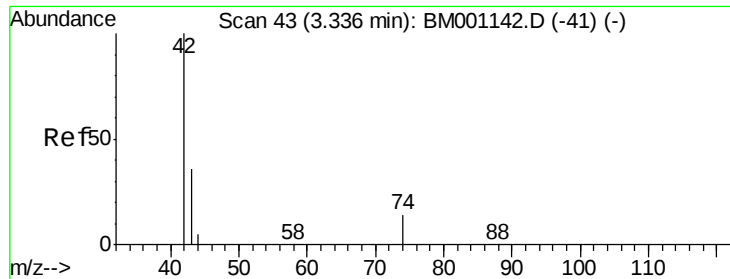
Ion Ratio Lower Upper

88 100

58 74.2 48.2 72.2#

43 0.0 24.8 37.2#





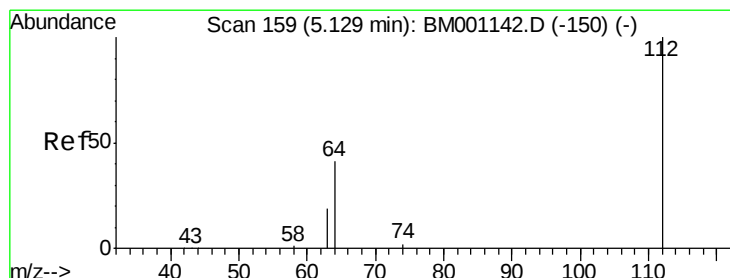
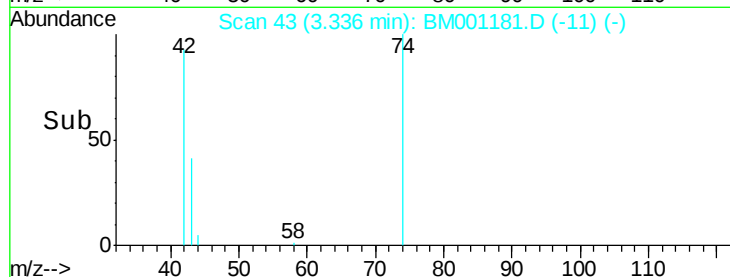
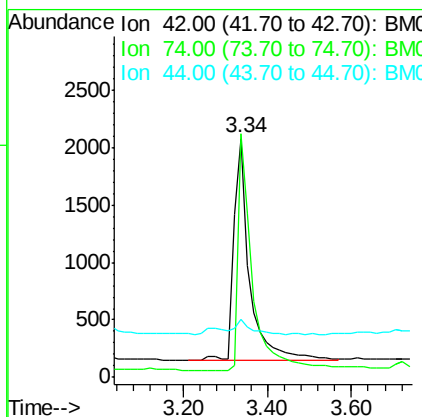
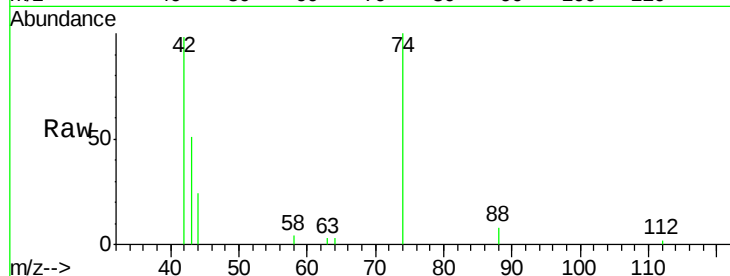
#3
 n-Nitrosodimethylamine
 Concen: 2.43 ng
 RT: 3.34 min Scan# 43
 Delta R.T. 0.00 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Instrument :
 BNA_M
 ClientSampleId :
 MPE-9MSD

Tot Ion	Ratio	Lower	Upper
42	100		
74	97.0	72.0	108.0
44	6.1	3.7	5.5#

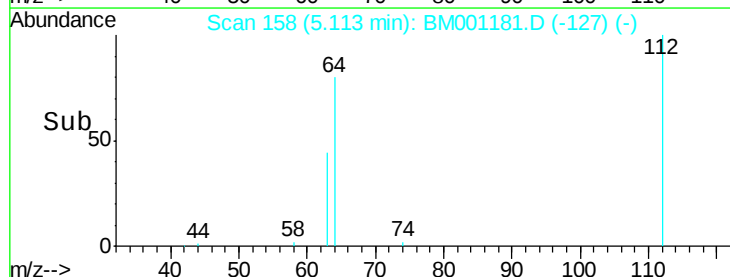
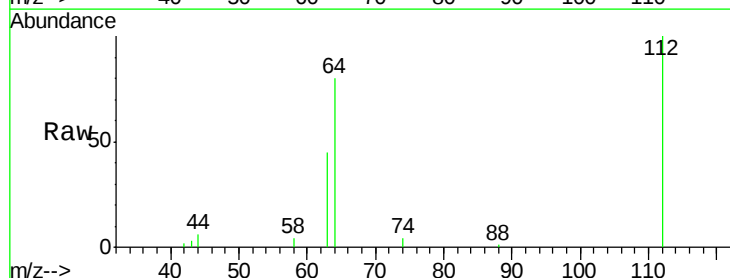
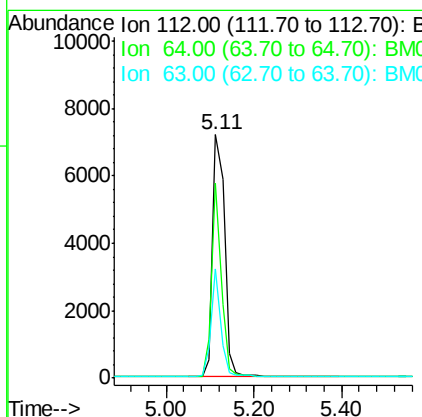
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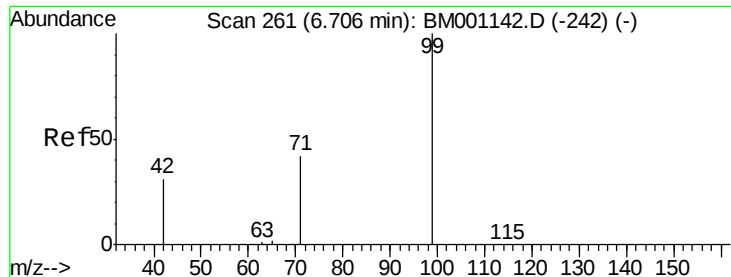
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#4
 2-Fluorophenol
 Concen: 4.03 ng
 RT: 5.11 min Scan# 158
 Delta R.T. -0.01 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	52.6	79.0
63	35.3	29.5	44.3





#5

Phenol-d6

Concen: 3.09 ng

RT: 6.71 min Scan# 261

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Instrument :

BNA_M

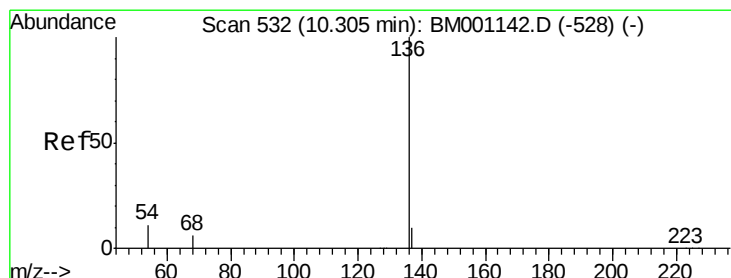
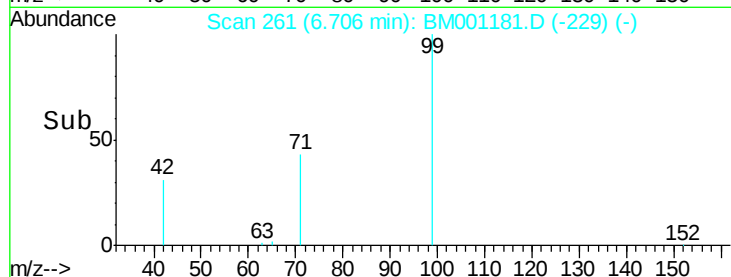
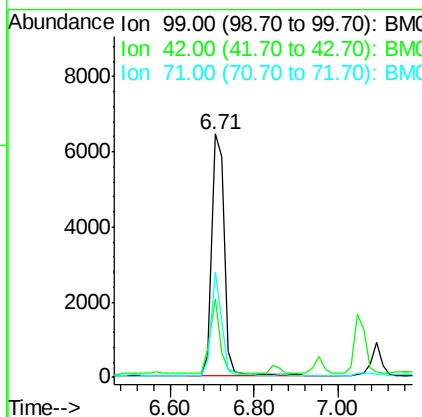
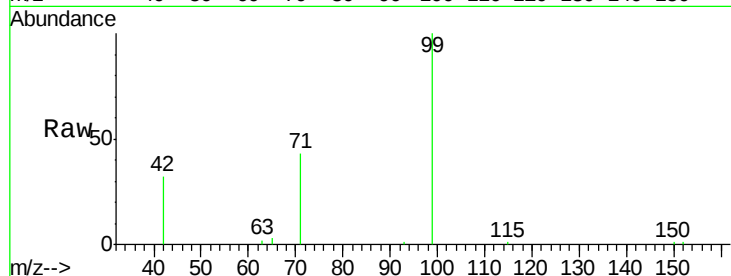
ClientSampleId :

MPE-9MSD

Tot Ion:	99	Resp:	12827
Ion Ratio	Lower	Upper	
99	100		
42	24.7	20.9	31.3
71	35.2	28.5	42.7

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#6

Naphthalene-d8

Concen: 5.00 ng

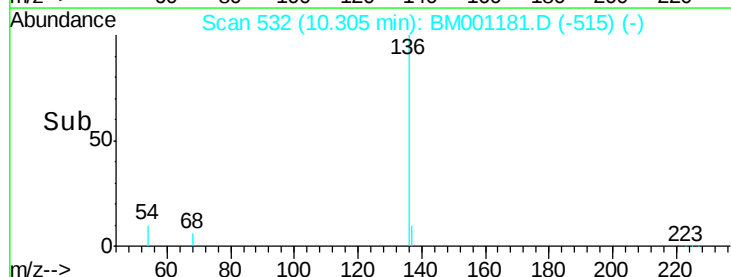
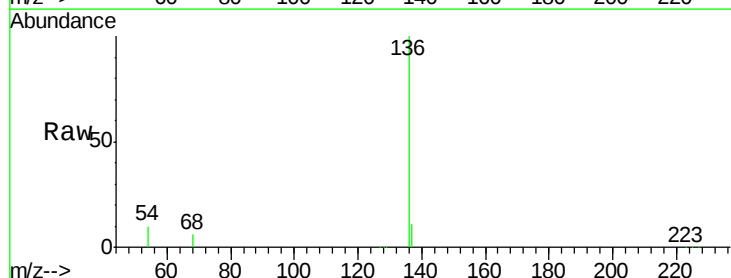
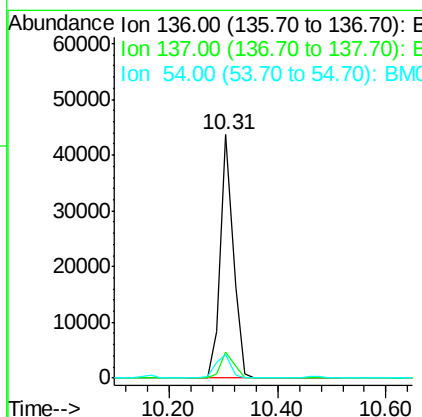
RT: 10.31 min Scan# 532

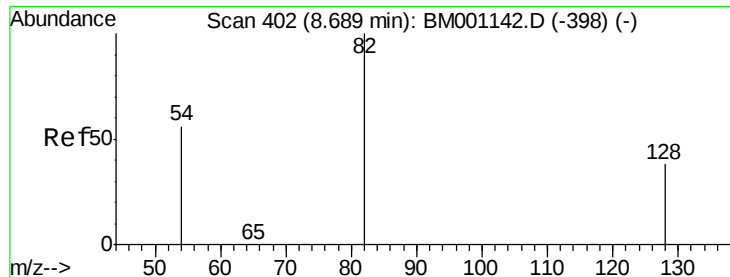
Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tgt Ion:	136	Resp:	71412
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.2	12.4
54	9.7	9.0	13.4





#7

Nitrobenzene-d5

Concen: 8.43 ng

RT: 8.69 min Scan# 402

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Instrument :

BNA_M

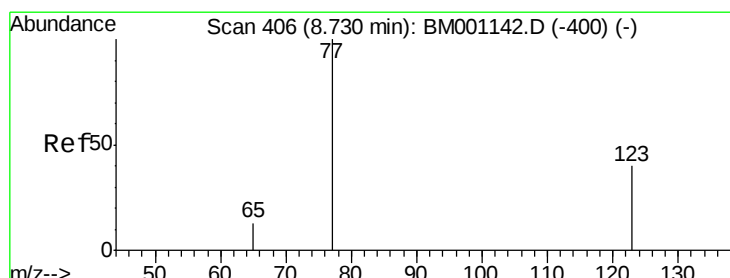
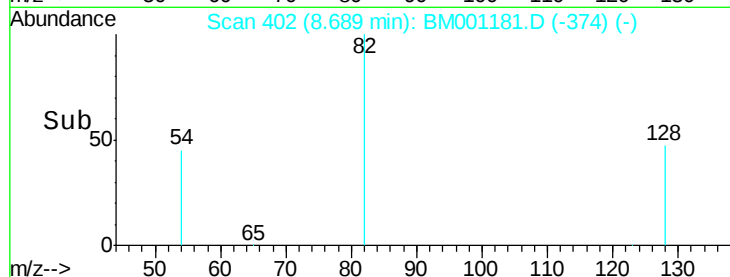
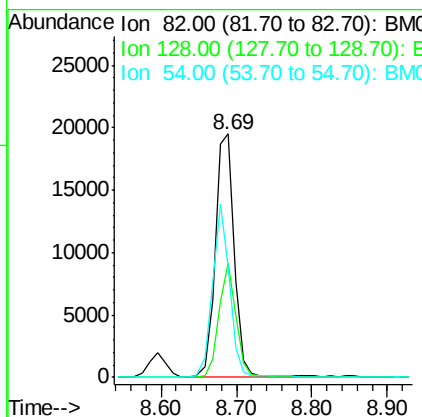
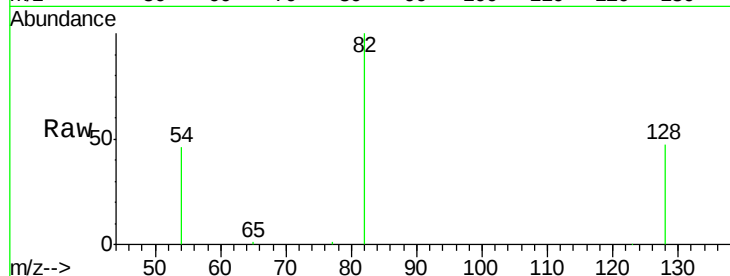
ClientSampled :

MPE-9MSD

Tot Ion:	82	Resp:	34118
Ion Ratio	Lower	Upper	
82	100		
128	47.1	31.9	47.9
54	45.6	46.2	69.2#

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#8

Nitrobenzene

Concen: 7.36 ng

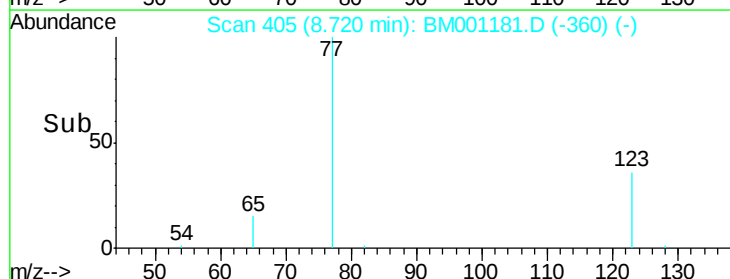
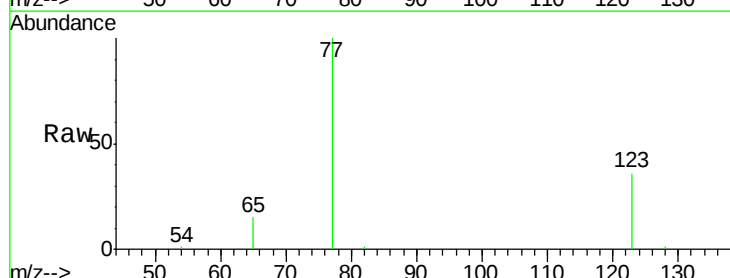
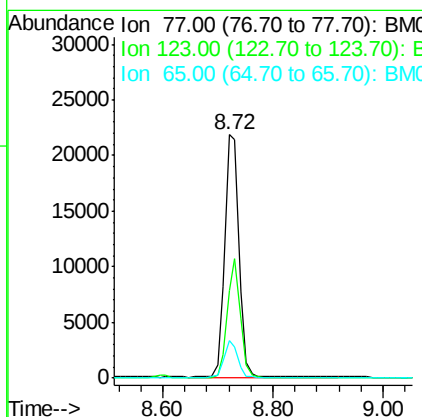
RT: 8.72 min Scan# 405

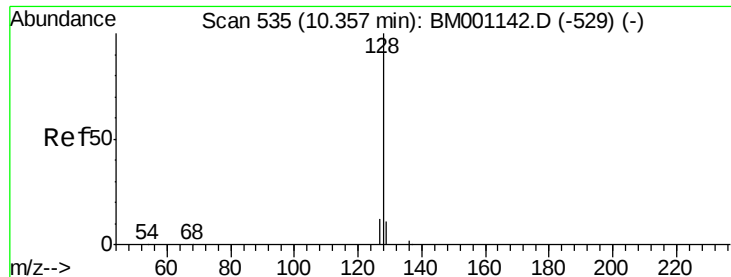
Delta R.T. -0.01 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tgt Ion:	77	Resp:	39176
Ion Ratio	Lower	Upper	
77	100		
123	43.9	31.0	46.6
65	14.2	10.6	15.8





#9

Naphthalene

Concen: 7.33 ng

RT: 10.36 min Scan# 535

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Instrument :

BNA_M

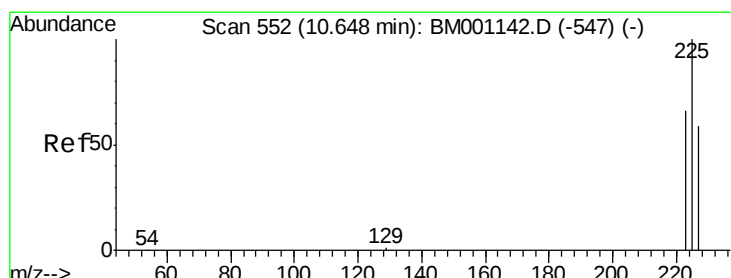
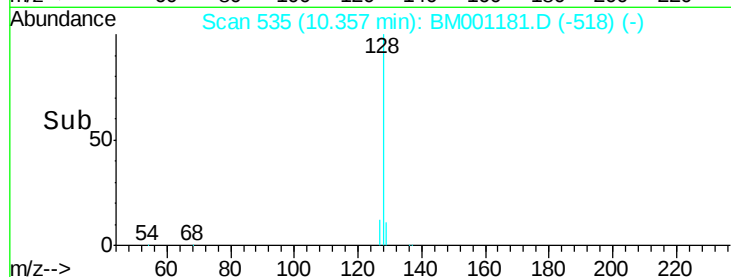
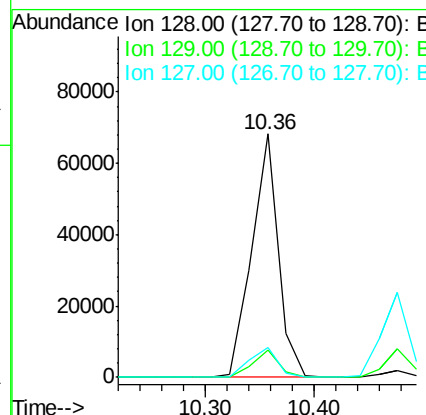
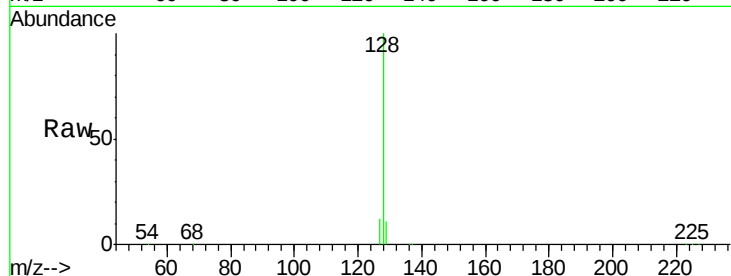
ClientSampleId :

MPE-9MSD

Tot Ion:	128	Resp:	115060
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.0	13.6
127	12.2	10.0	15.0

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#10

Hexachlorobutadiene

Concen: 6.61 ng

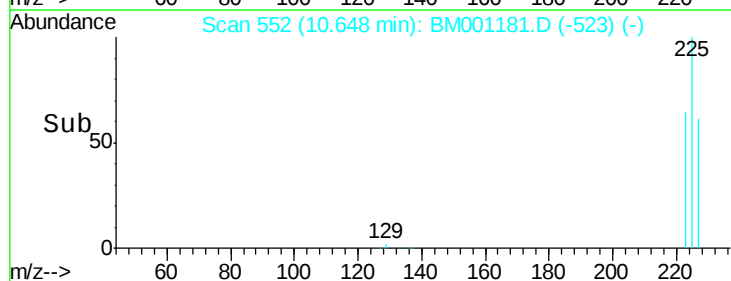
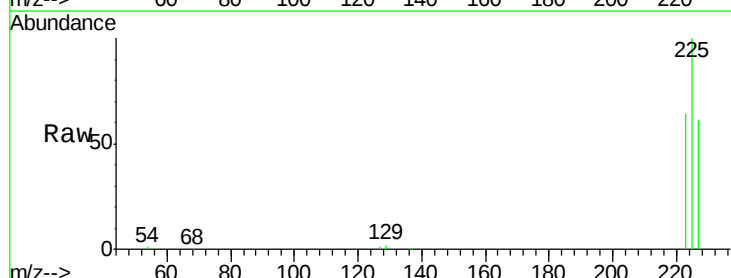
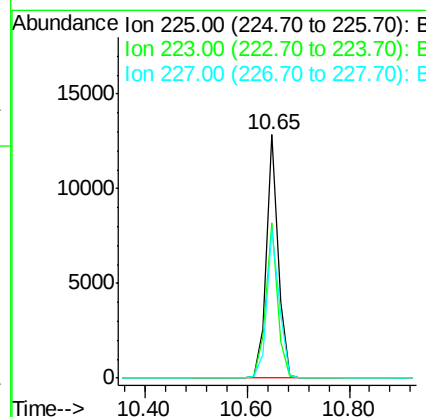
RT: 10.65 min Scan# 552

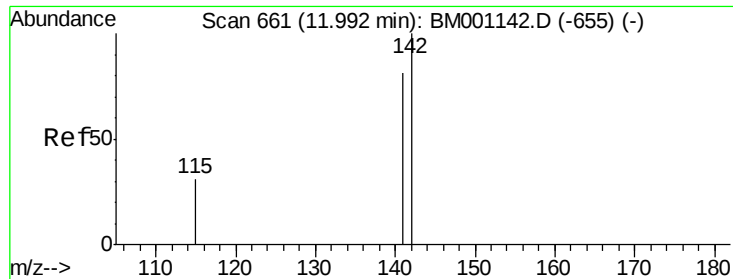
Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tgt Ion:	225	Resp:	20000
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.8	76.2
227	63.6	51.0	76.4





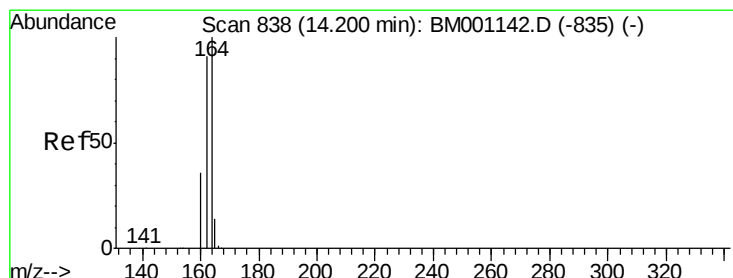
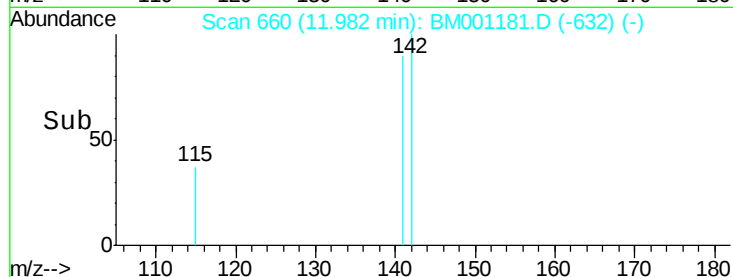
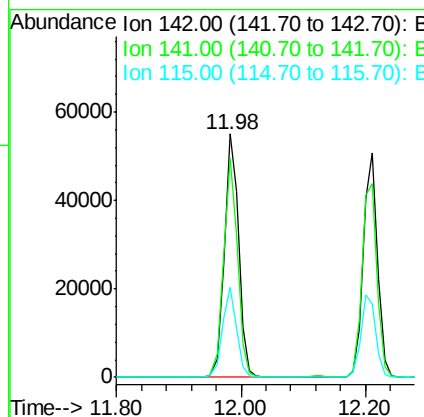
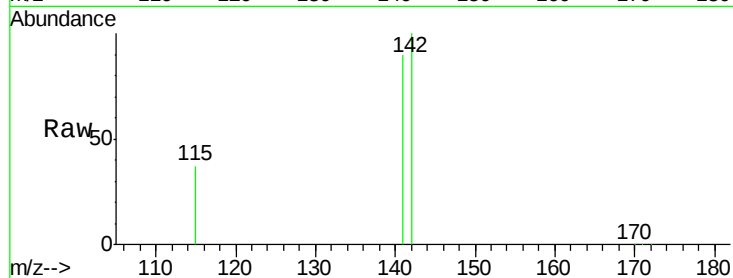
#11
2-Methylnaphthalene
Concen: 8.15 ng
RT: 11.98 min Scan# 660
Delta R.T. -0.01 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	65.1	97.7
115	37.0	25.1	37.7

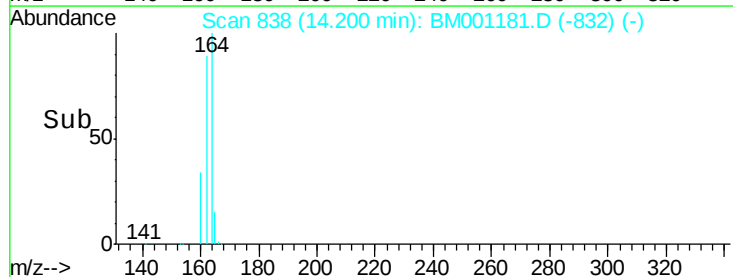
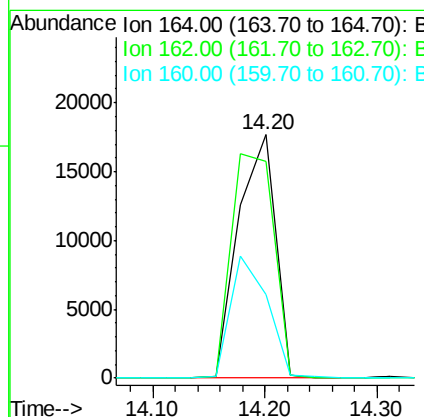
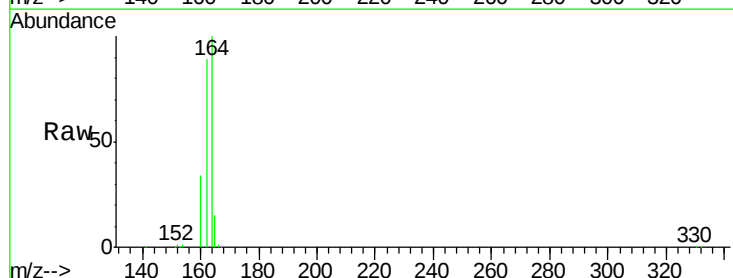
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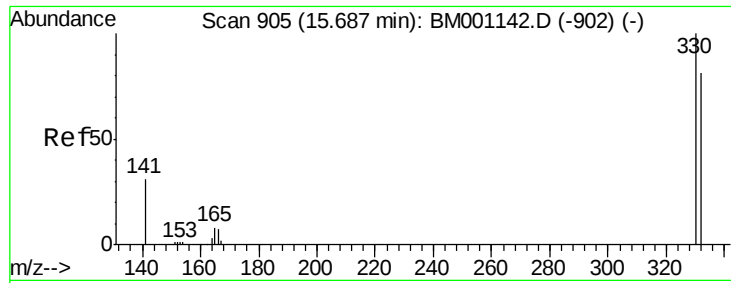
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.20 min Scan# 838
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	89.0	72.7	109.1
160	34.5	28.7	43.1





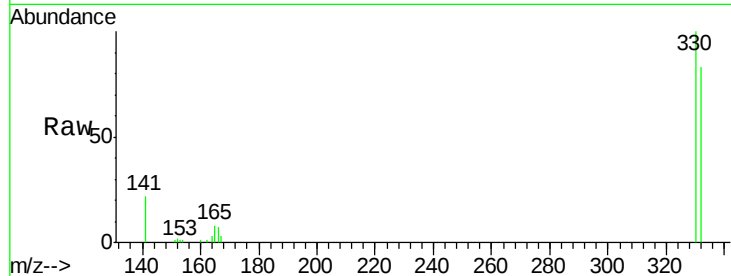
#13
 2,4,6-Tribromophenol
 Concen: 15.56 ng
 RT: 15.69 min Scan# 905
 Delta R.T. 0.00 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Instrument :
 BNA_M
 ClientSampleId :
 MPE-9MSD

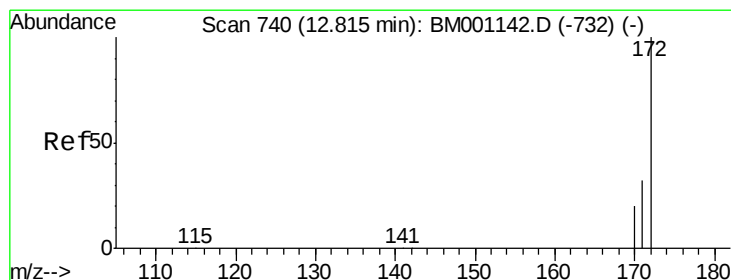
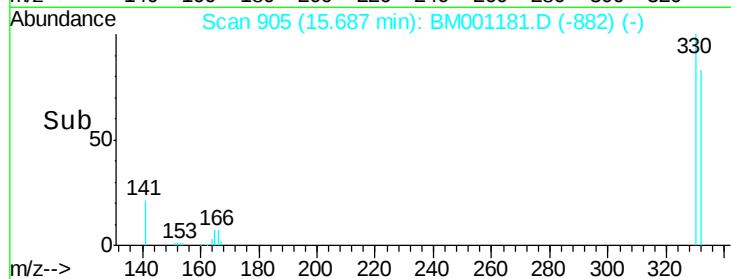
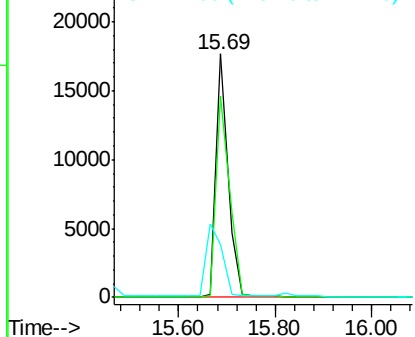
Tot Ion	Ratio	Lower	Upper
330	100		
332	93.1	74.5	111.7
141	0.0	21.0	31.4#

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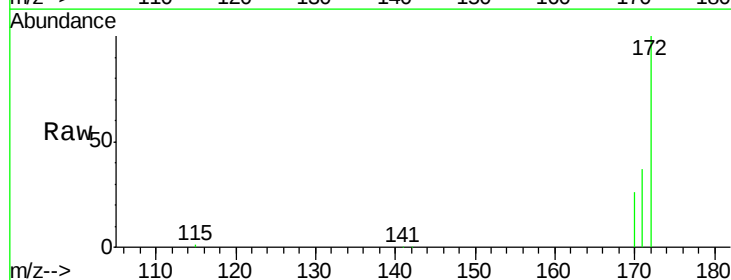


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

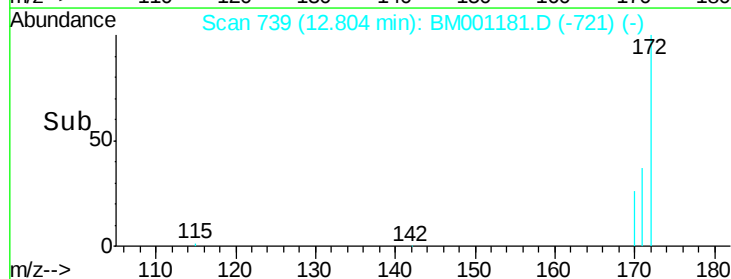
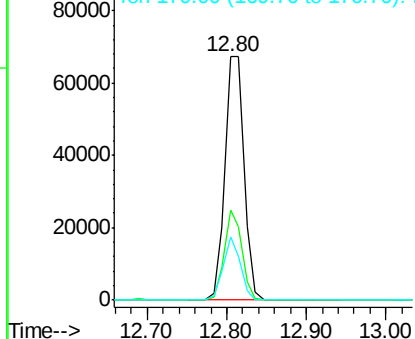


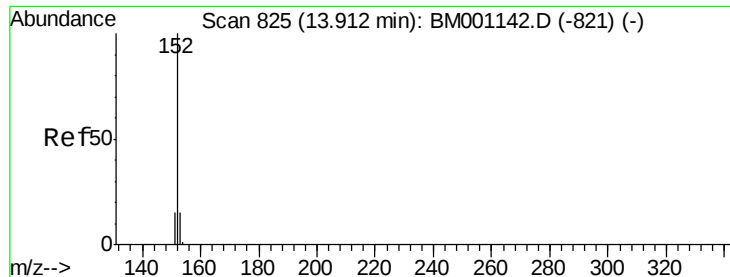
#14
 2-Fluorobiphenyl
 Concen: 8.38 ng
 RT: 12.80 min Scan# 739
 Delta R.T. -0.01 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	25.8	38.6
170	25.8	16.1	24.1#



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





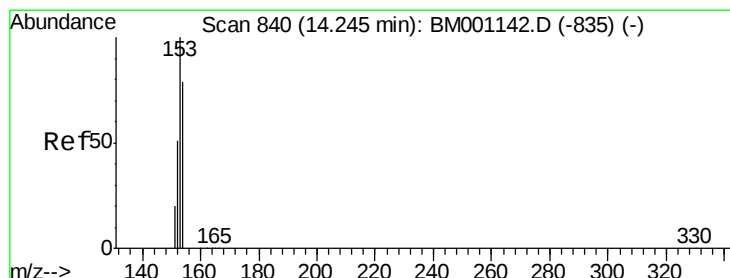
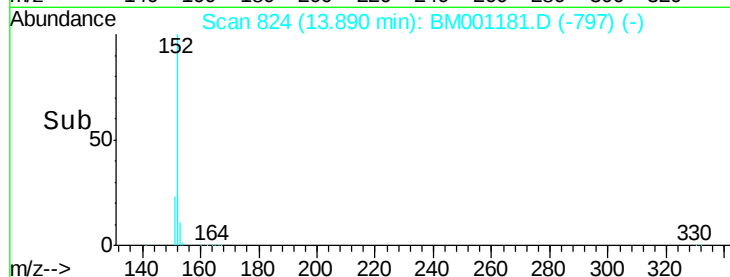
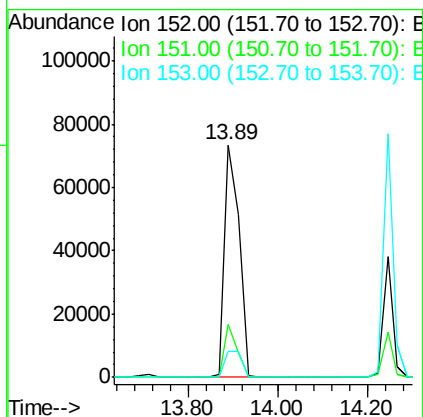
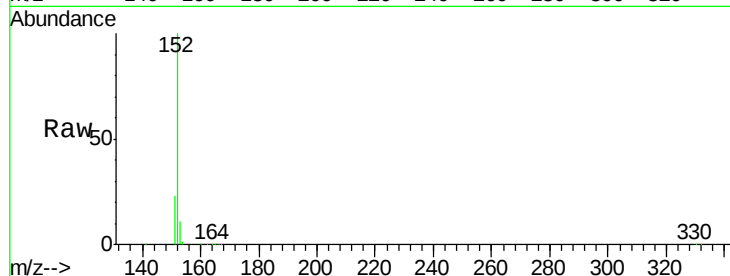
#15
Acenaphthylene
Concen: 9.60 ng
RT: 13.89 min Scan# 824
Delta R.T. -0.02 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	0.0	0.0#
153	12.9	10.3	15.5

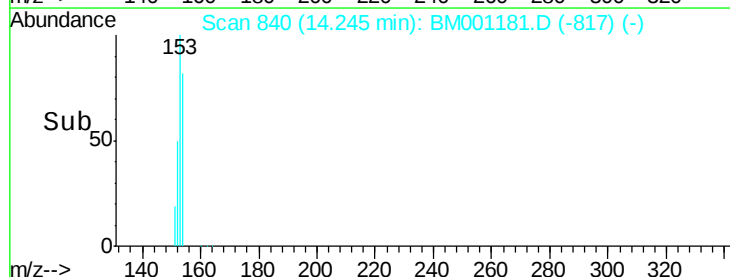
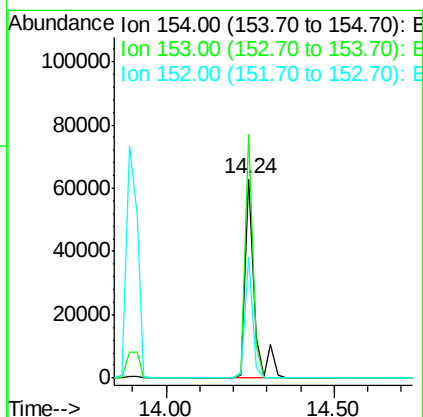
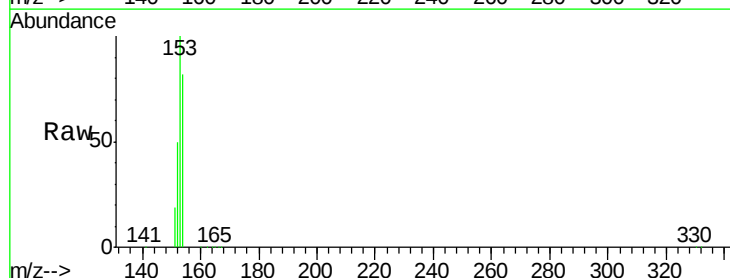
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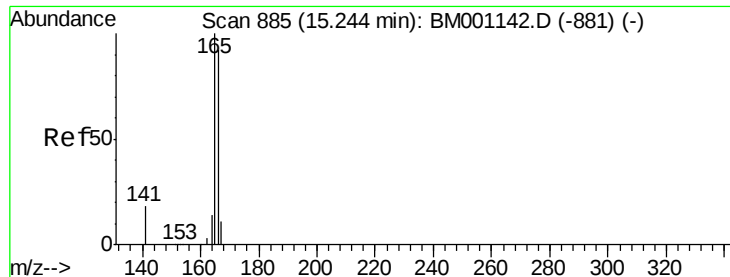
apatel
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#16
Acenaphthene
Concen: 9.73 ng
RT: 14.24 min Scan# 840
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Lower	Upper
154	100		
153	99.8	90.6	136.0
152	48.5	45.0	67.4





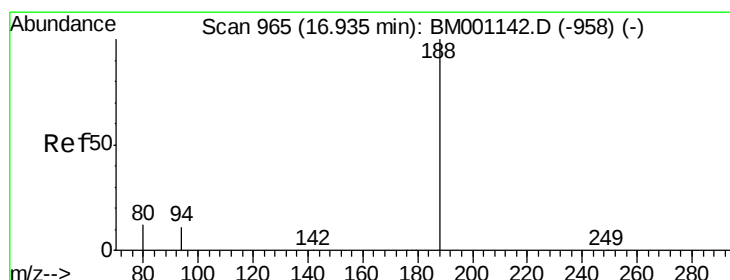
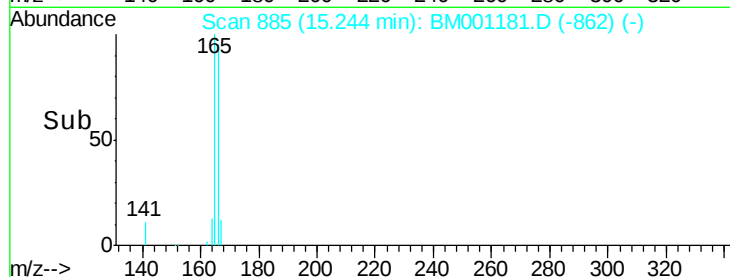
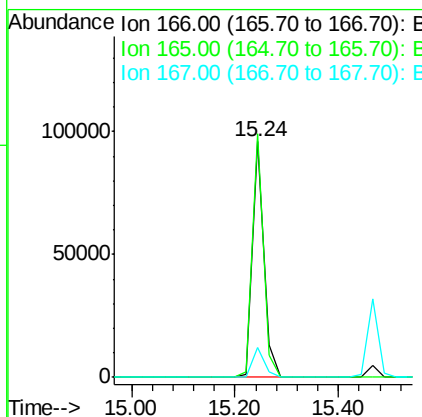
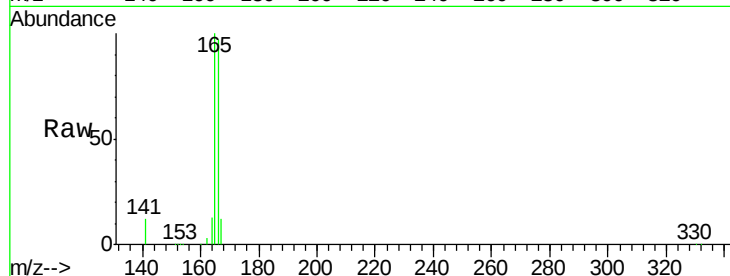
#17
Fluorene
 Concen: 10.43 ng
 RT: 15.24 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Instrument :
 BNA_M
 ClientSampleId :
 MPE-9MSD

Tot Ion	Ratio	Resp	Lower	Upper
166	100	147365		
165	99.7	81.0	121.6	
167	13.0	10.4	15.6	

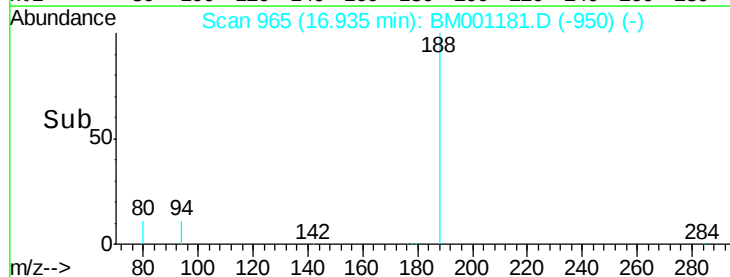
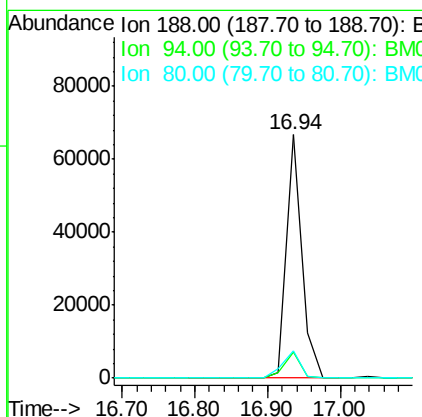
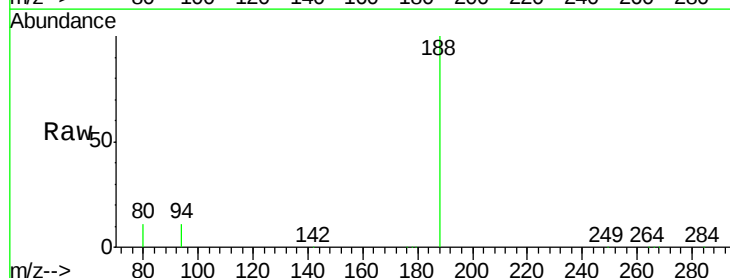
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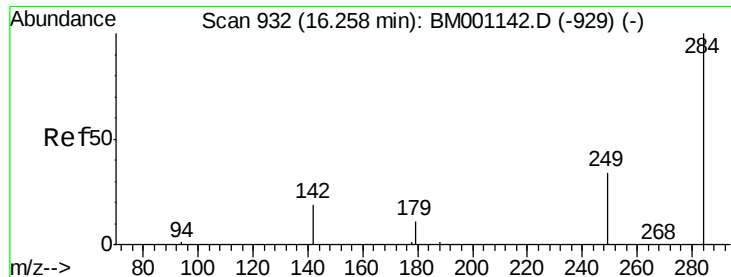
apatel
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.94 min Scan# 965
 Delta R.T. 0.00 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	99586		
94	10.8	9.3	13.9	
80	11.0	9.8	14.6	





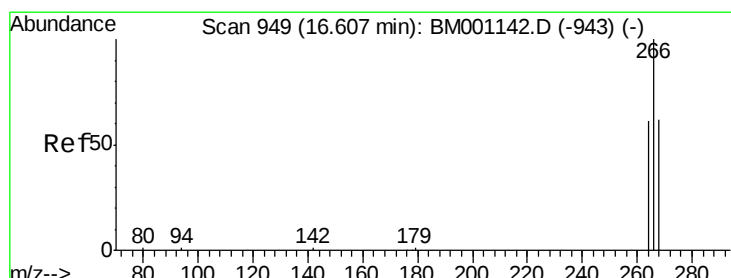
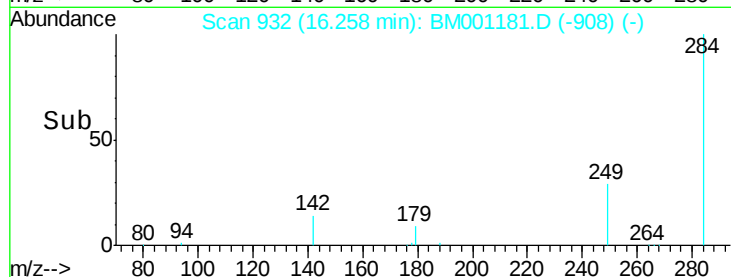
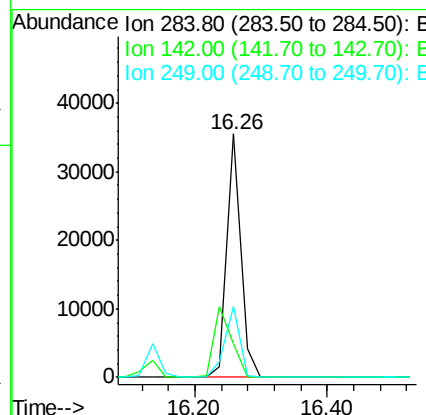
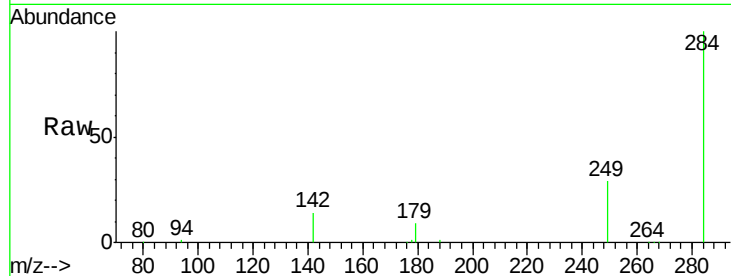
#19
Hexachlorobenzene
Concen: 9.41 ng
RT: 16.26 min Scan# 932
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	31.5	26.5	39.7

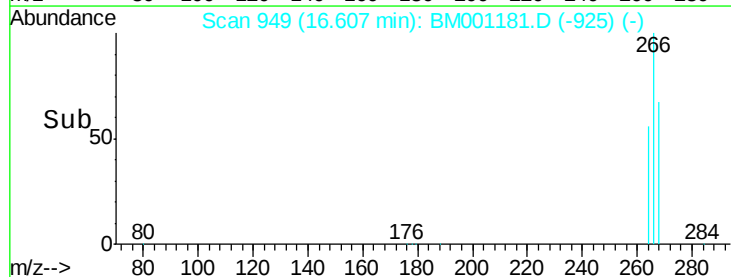
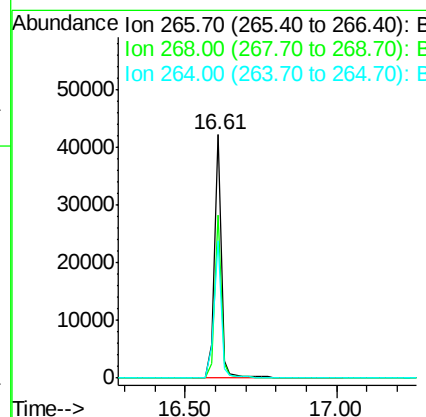
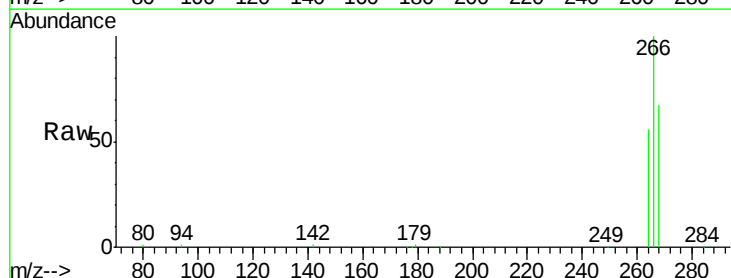
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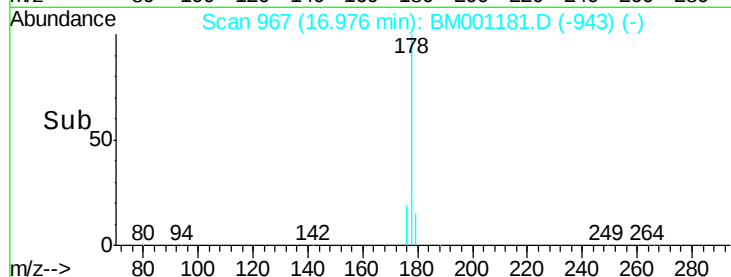
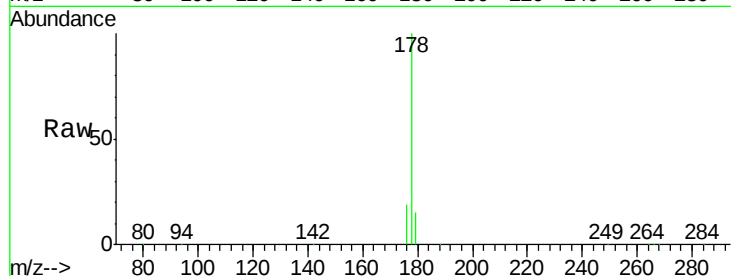
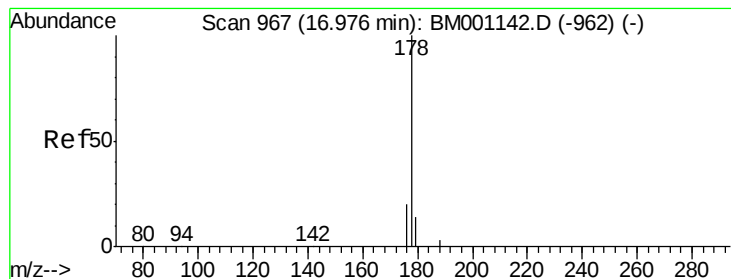
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#20
Pentachlorophenol
Concen: 27.72 ng
RT: 16.61 min Scan# 949
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Lower	Upper
266	100		
268	66.8	52.6	79.0
264	56.4	51.0	76.4





#21

Phenanthrene

Concen: 9.43 ng

RT: 16.98 min Scan# 967

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tot Ion:	178	Resp:	241656
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.5	23.3
179	15.1	12.0	18.0

Instrument :

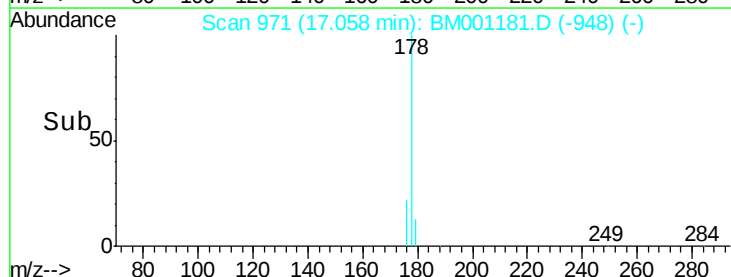
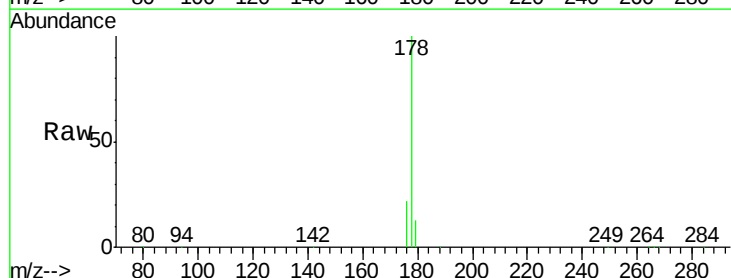
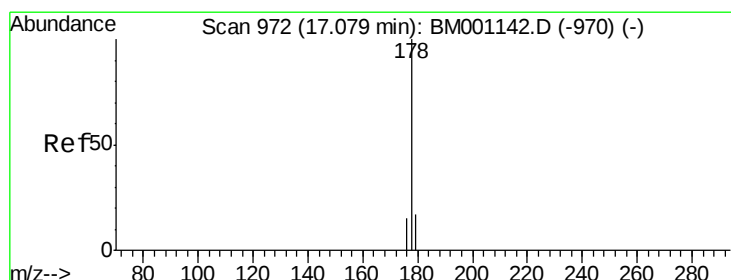
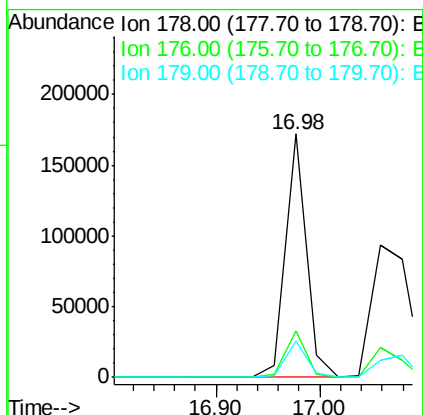
BNA_M

ClientSampleId :

MPE-9MSD

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#22

Anthracene

Concen: 10.46 ng m

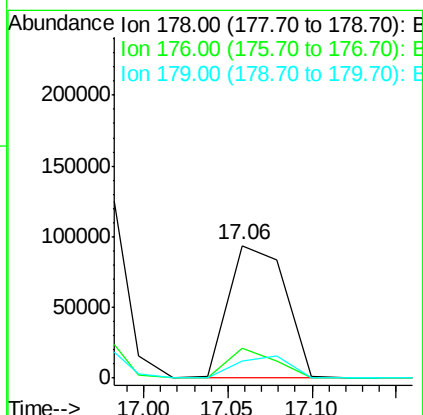
RT: 17.06 min Scan# 971

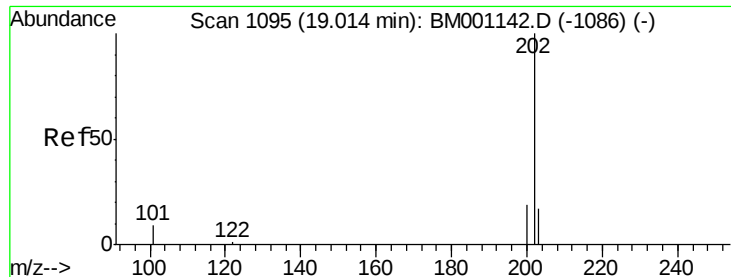
Delta R.T. -0.02 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tgt Ion:	178	Resp:	221623
Ion Ratio	Lower	Upper	
178	100		
176	20.7	14.3	21.5
179	16.5	12.2	18.2





#23

Fluoranthene

Concen: 10.49 ng

RT: 19.01 min Scan# 1095

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Instrument :

BNA_M

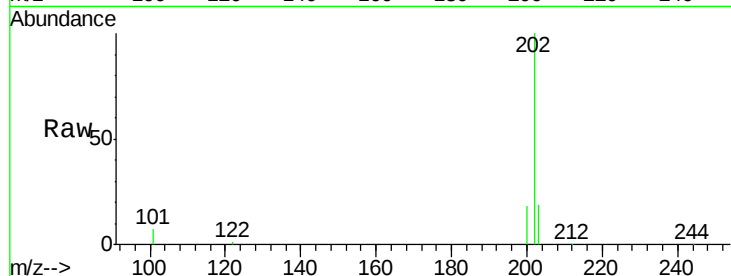
ClientSampleId :

MPE-9MSD

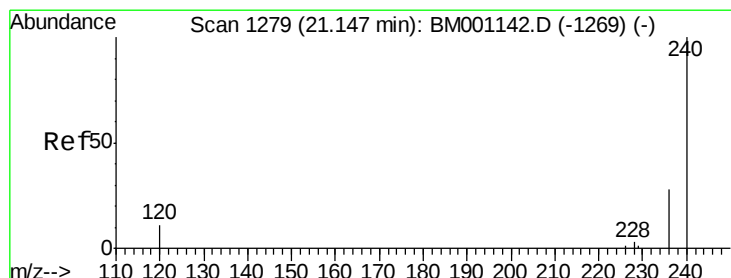
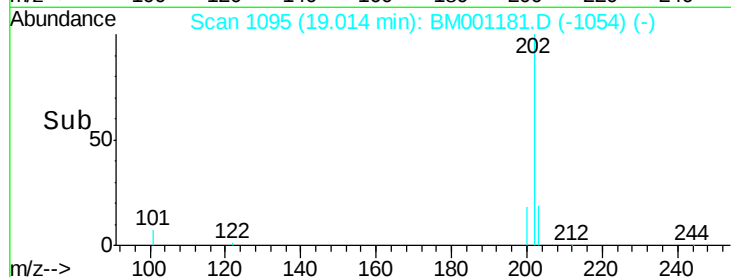
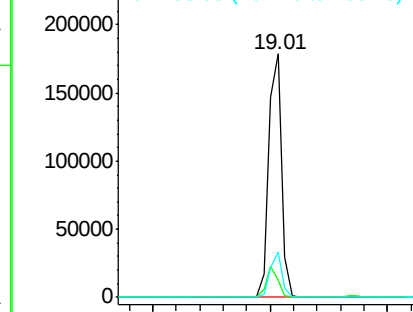
Tot Ion:	202	Resp:	272357
Ion Ratio	Lower	Upper	
202	100		
101	11.6	9.3	13.9
203	17.6	13.7	20.5

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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



#24

Chrysene-d12

Concen: 5.00 ng

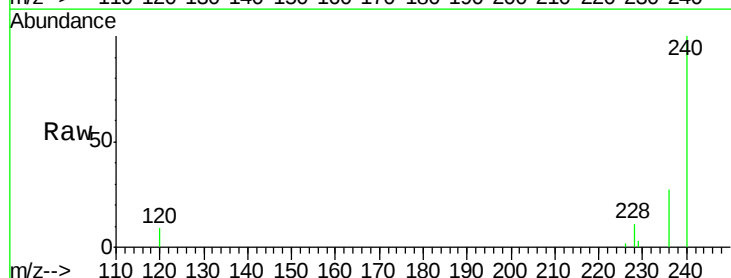
RT: 21.15 min Scan# 1279

Delta R.T. 0.00 min

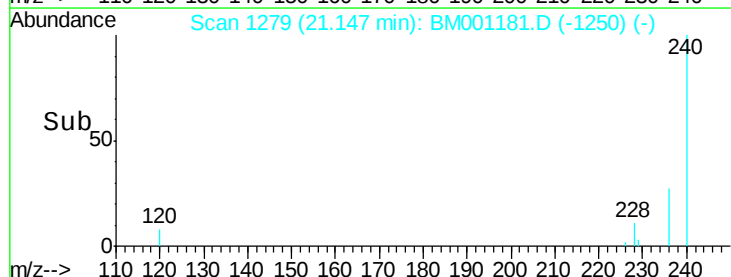
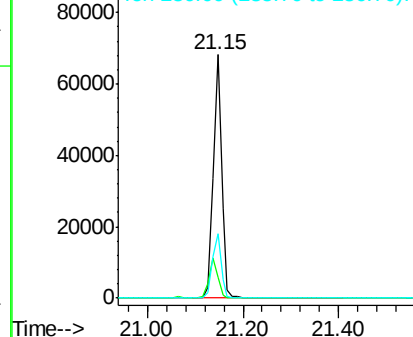
Lab File: BM001181.D

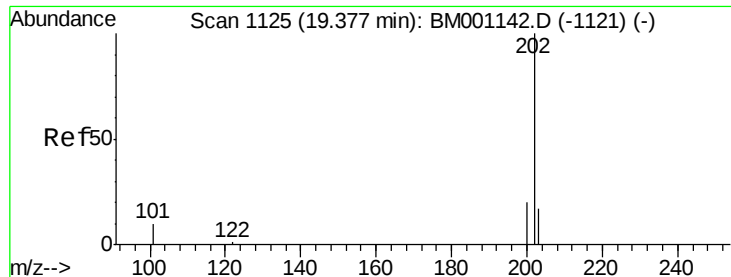
Acq: 02 May 2015 23:35

Tgt Ion:	240	Resp:	83479
Ion Ratio	Lower	Upper	
240	100		
120	8.6	9.2	13.8#
236	26.7	22.4	33.6



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





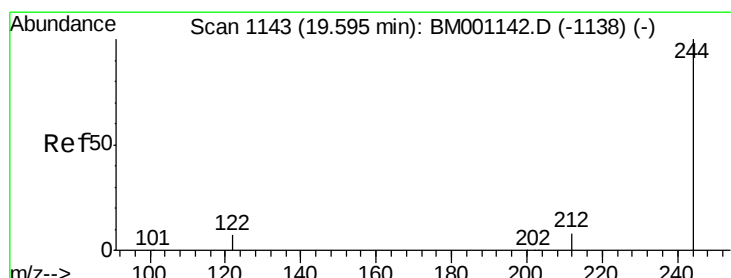
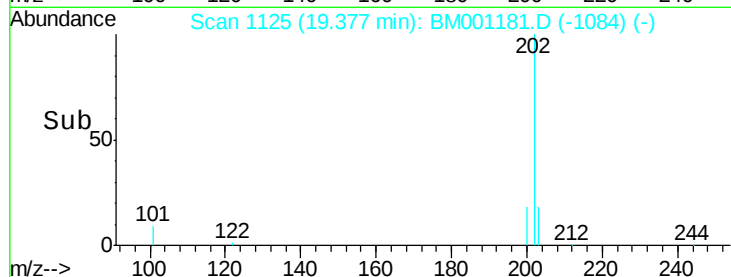
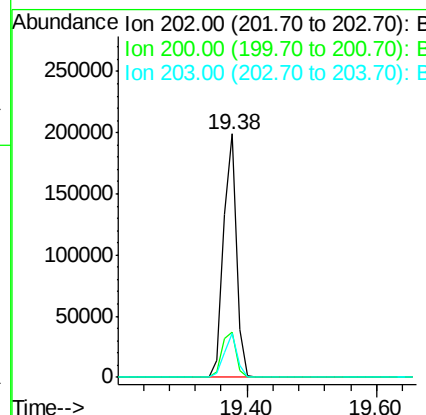
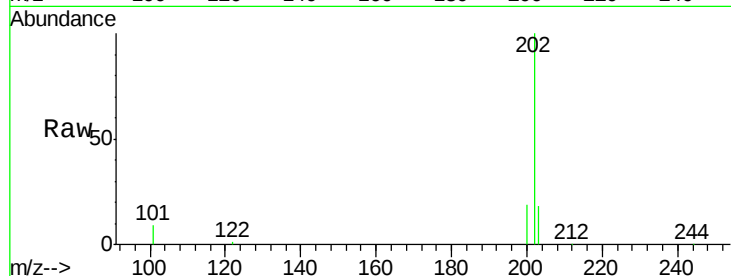
#25
Pvrene
Concen: 10.81 ng
RT: 19.38 min Scan# 1125
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.4	16.4	24.6
203	17.7	13.8	20.6

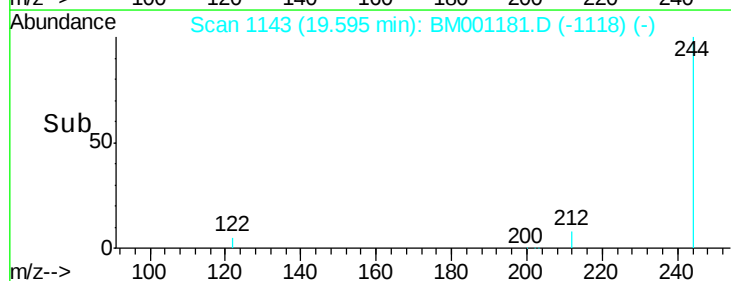
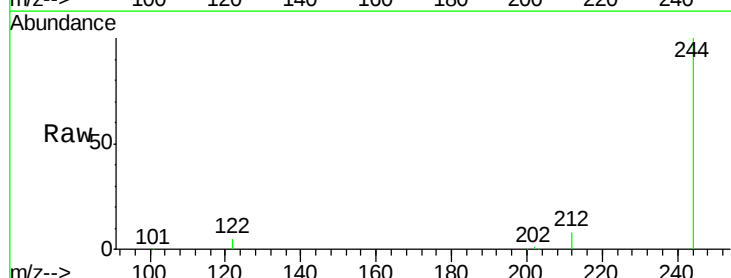
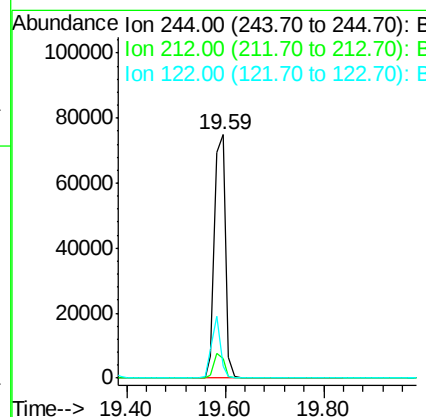
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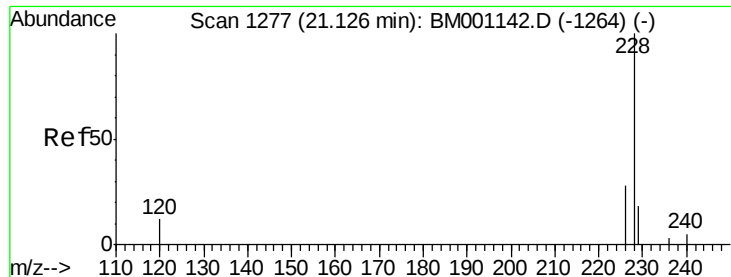
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#26
Terphenyl-d14
Concen: 10.05 ng
RT: 19.59 min Scan# 1143
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.1	7.1	10.7
122	4.9	6.2	9.4





#27

Benzo(a)anthracene

Concen: 10.59 ng

RT: 21.13 min Scan# 1277

Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Instrument :

BNA_M

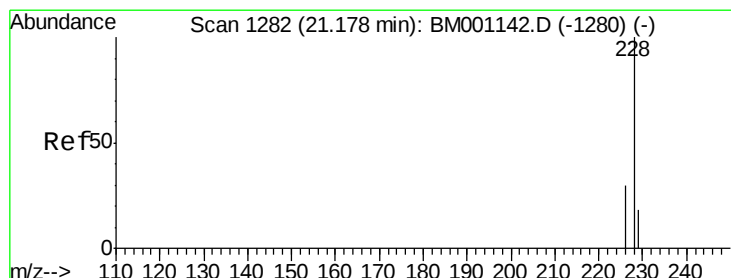
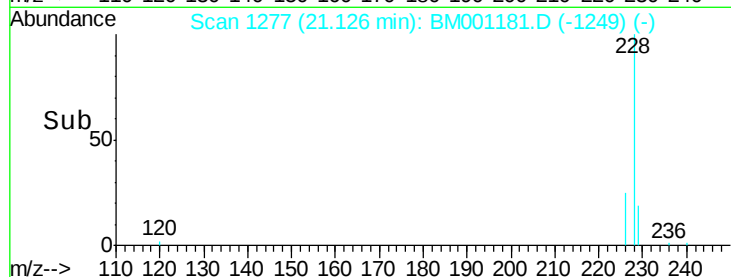
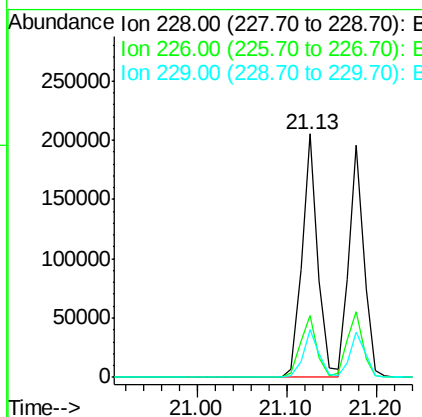
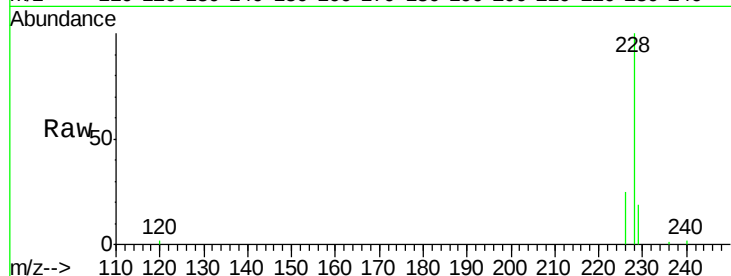
ClientSampleId :

MPE-9MSD

Tot Ion:	228	Resp:	249162
Ion Ratio	Lower	Upper	
228	100		
226	25.4	22.8	34.2
229	19.4	14.4	21.6

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#28

Chrysene

Concen: 9.82 ng

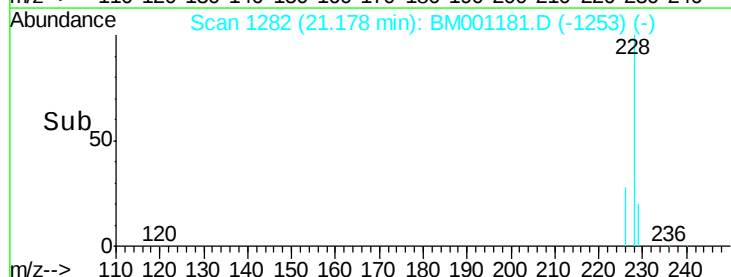
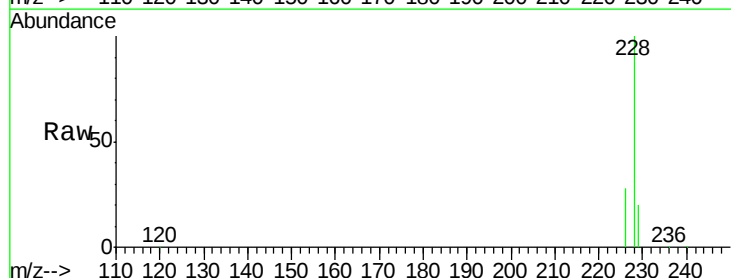
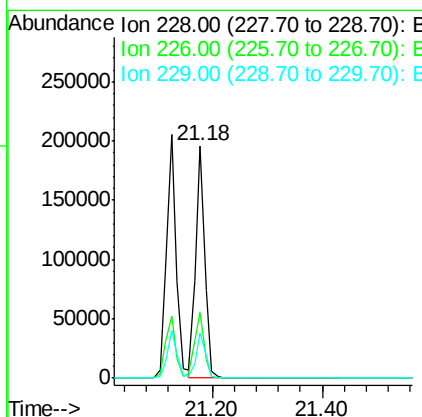
RT: 21.18 min Scan# 1282

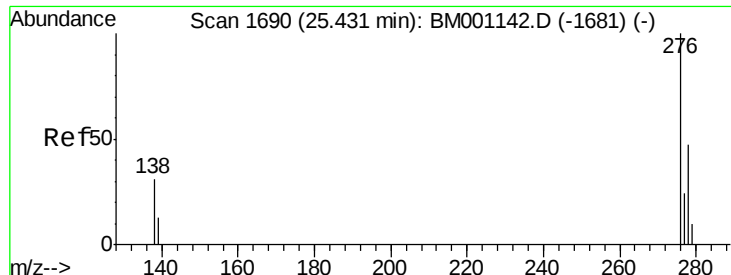
Delta R.T. 0.00 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tgt Ion:	228	Resp:	226994
Ion Ratio	Lower	Upper	
228	100		
226	28.4	24.4	36.6
229	19.6	14.3	21.5





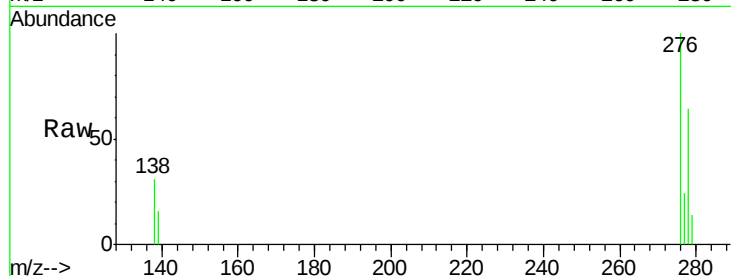
#29
Indeno(1,2,3-cd)pyrene
Concen: 8.34 ng
RT: 25.43 min Scan# 1690
Delta R.T. 0.00 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

Tot Ion	Ratio	Resp	Lower	Upper
276	100	175665		
138	31.1	24.2	36.4	
277	24.6	19.8	29.6	

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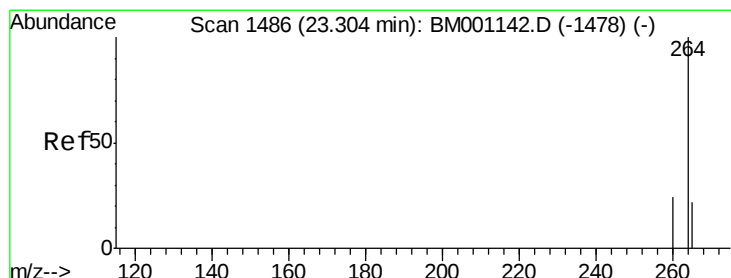
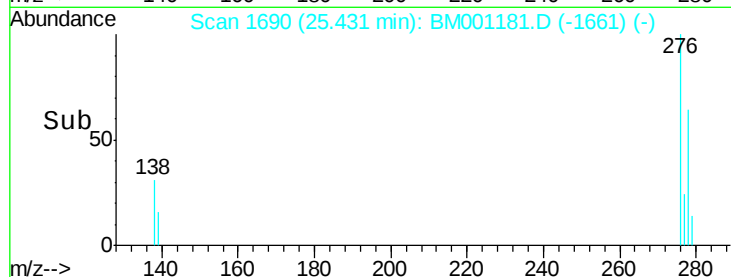
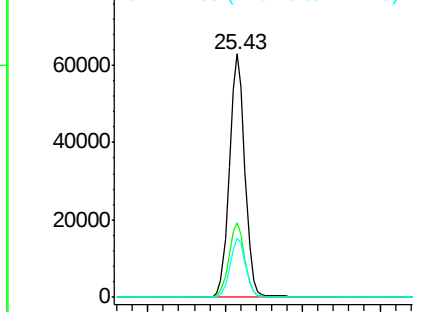


Abundance

Ion 276.00 (275.70 to 276.70): E

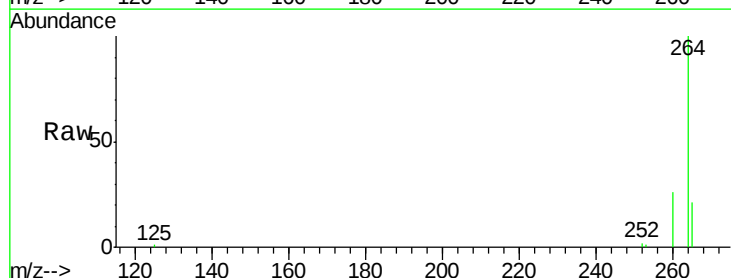
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#30
Perylene-d12
Concen: 5.00 ng
RT: 23.29 min Scan# 1485
Delta R.T. -0.01 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	65706		
260	25.6	18.9	28.3	
265	21.3	18.1	27.1	

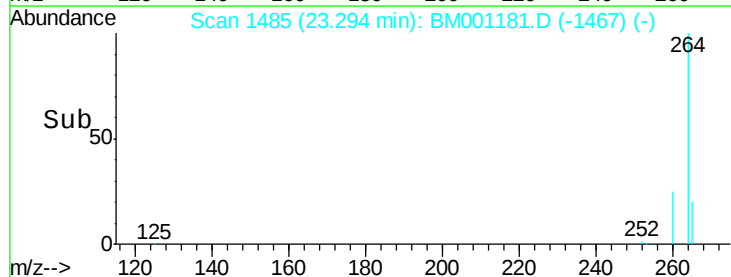
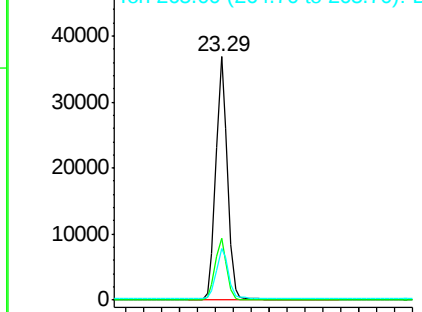


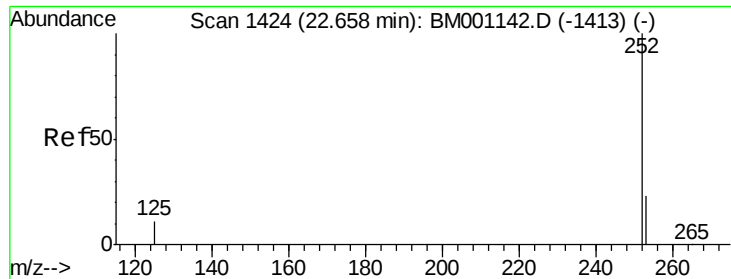
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





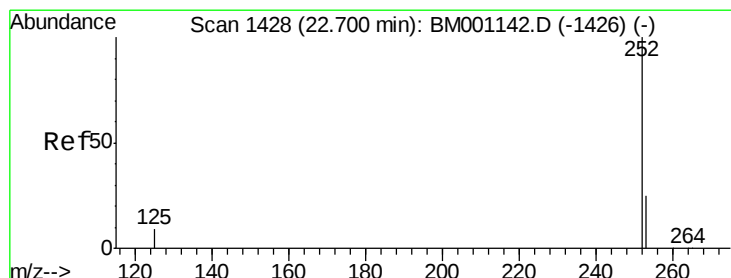
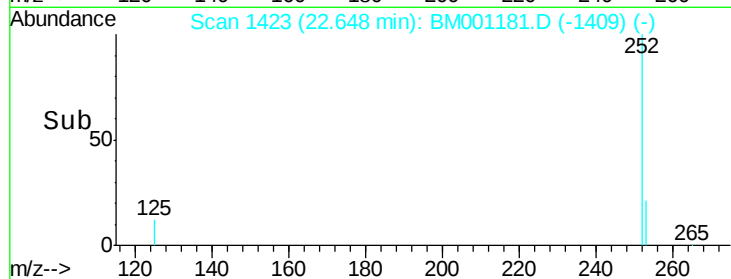
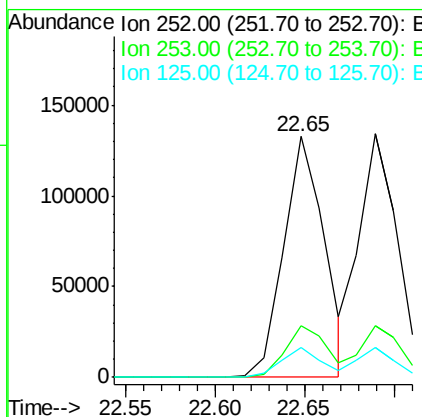
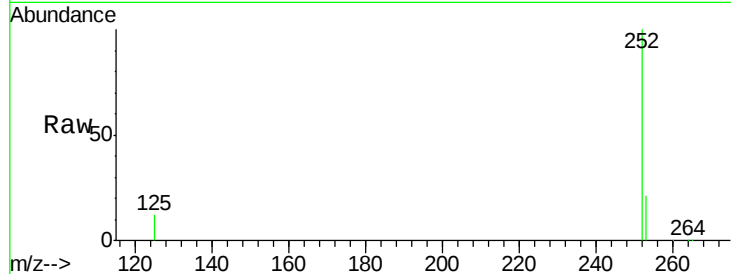
#31
Benzo(b)fluoranthene
Concen: 10.38 ng
RT: 22.65 min Scan# 1423
Delta R.T. -0.01 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Instrument :
BNA_M
ClientSampleId :
MPE-9MSD

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.3	19.0	28.4
125	12.3	9.1	13.7

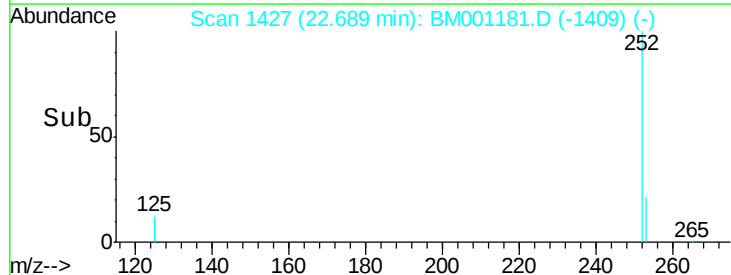
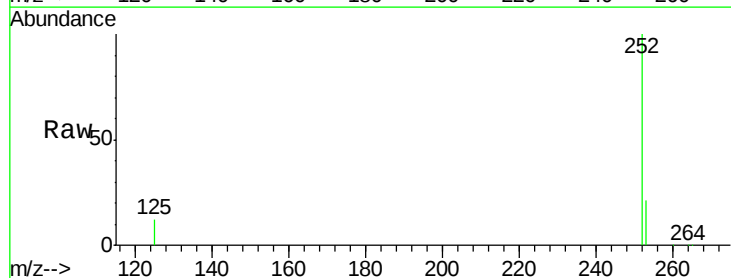
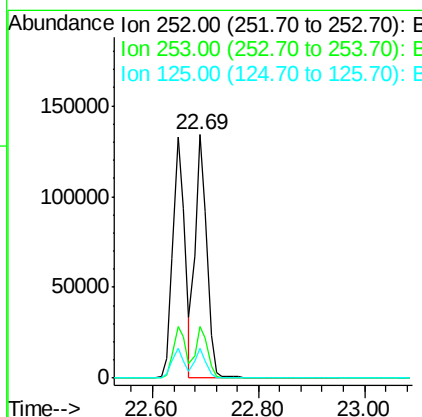
Manual Integrations
APPROVED

apatel
5/5/2015 8:05:01 AM



#32
Benzo(k)fluoranthene
Concen: 10.71 ng
RT: 22.69 min Scan# 1427
Delta R.T. -0.01 min
Lab File: BM001181.D
Acq: 02 May 2015 23:35

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	21.1	19.1	28.7
125	12.1	9.3	13.9





#33

Benzo(a)pyrene

Concen: 11.13 ng

RT: 23.19 min Scan# 1475

Delta R.T. -0.01 min

Lab File: BM001181.D

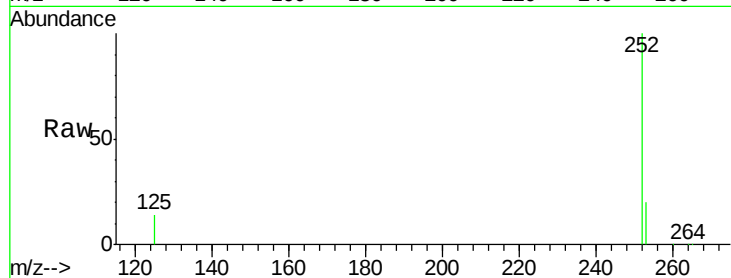
Acq: 02 May 2015 23:35

Instrument :

BNA_M

ClientSampleId :

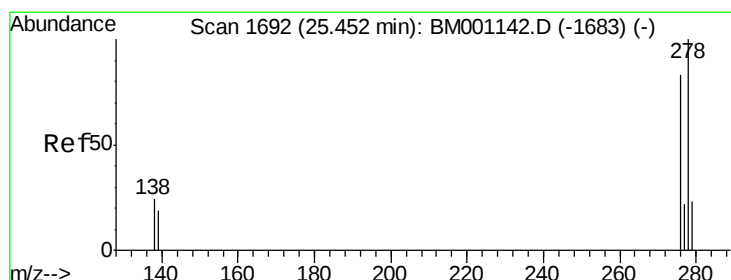
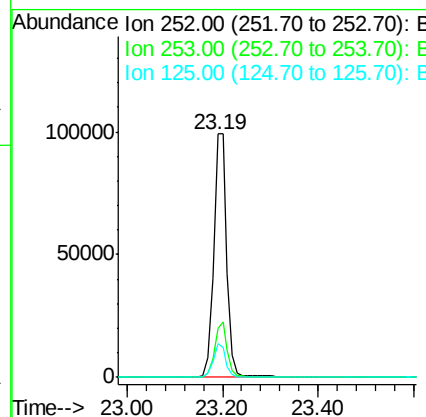
MPE-9MSD



Tot Ion:	252	Resp:	190027
Ion Ratio	Lower	Upper	
252	100		
253	20.0	18.2	27.2
125	14.0	10.6	16.0

Manual Integrations
APPROVED

apatel
5/5/2015 8:05:01 AM



#34

Dibenzo(a,h)anthracene

Concen: 9.44 ng

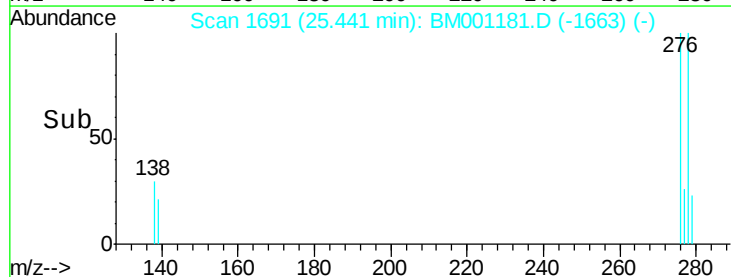
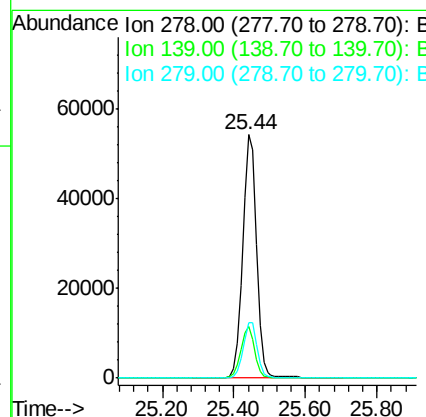
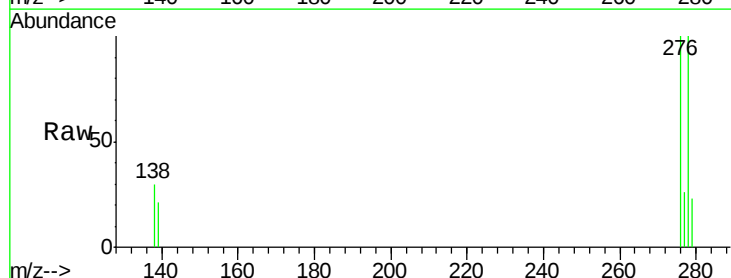
RT: 25.44 min Scan# 1691

Delta R.T. -0.01 min

Lab File: BM001181.D

Acq: 02 May 2015 23:35

Tgt Ion:	278	Resp:	141332
Ion Ratio	Lower	Upper	
278	100		
139	21.3	15.5	23.3
279	22.8	19.7	29.5





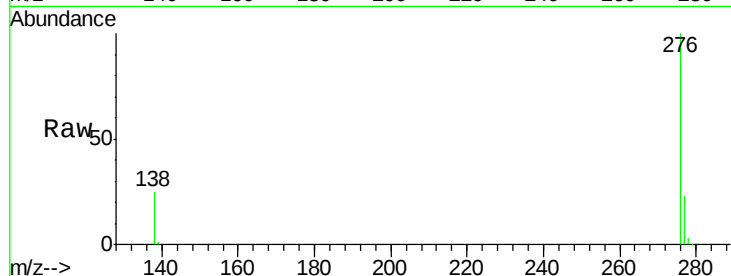
#35
 Benzo(a,h,i)perylene
 Concen: 9.06 ng
 RT: 26.09 min Scan# 1753
 Delta R.T. 0.00 min
 Lab File: BM001181.D
 Acq: 02 May 2015 23:35

Instrument :
 BNA_M
 ClientSampleId :
 MPE-9MSD

Tot Ion:	276	Resp:	143164
Ion Ratio		Lower	Upper
276	100		
277	23.5	19.0	28.4
138	25.3	21.3	31.9

Manual Integrations
 APPROVED

apatel
 5/5/2015 8:05:01 AM



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

