

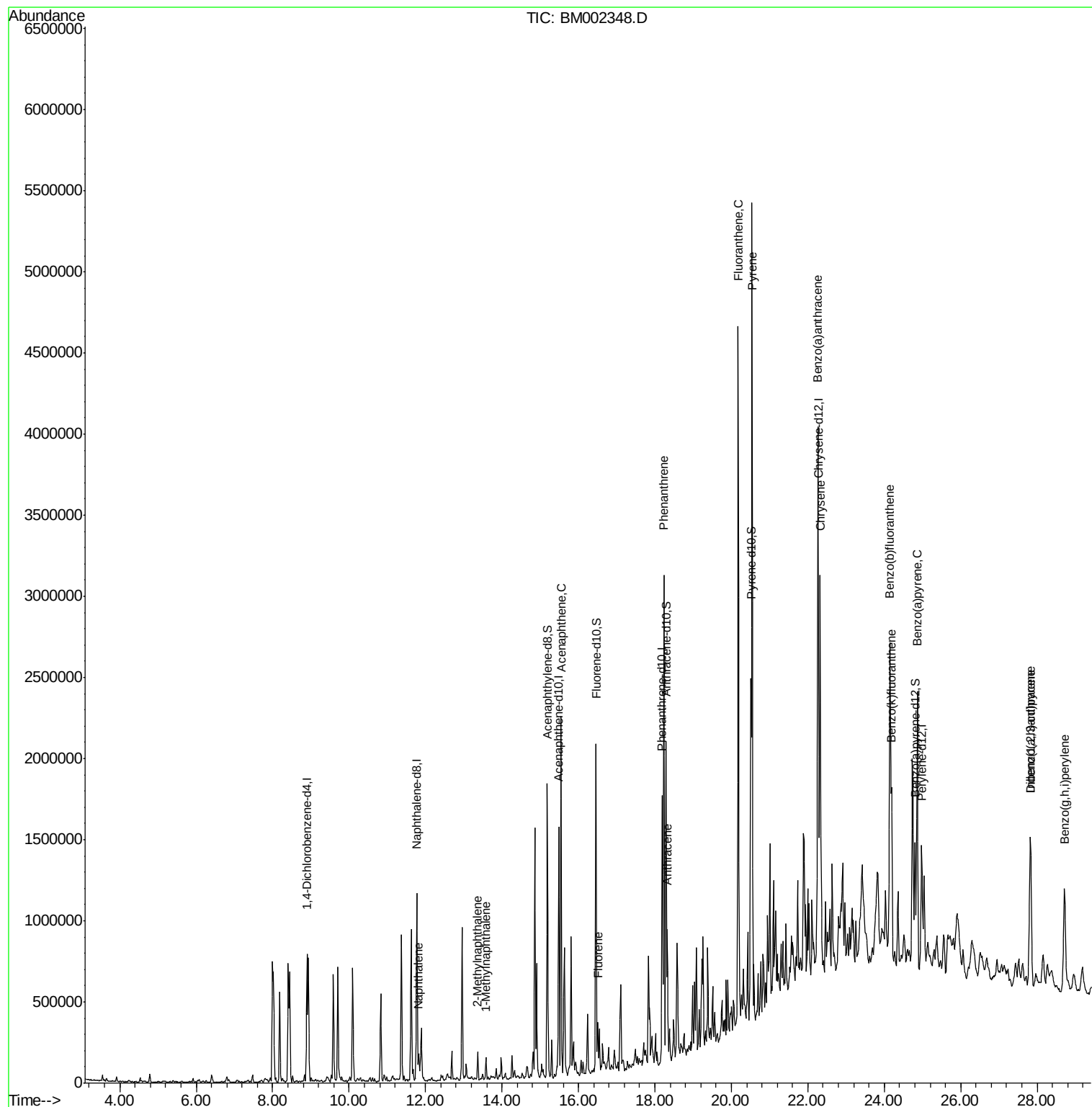
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081215\
Data File : BM002348.D
Acq On : 12 Aug 2015 06:44
Operator : UM/IZ
Sample : G3162-18MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

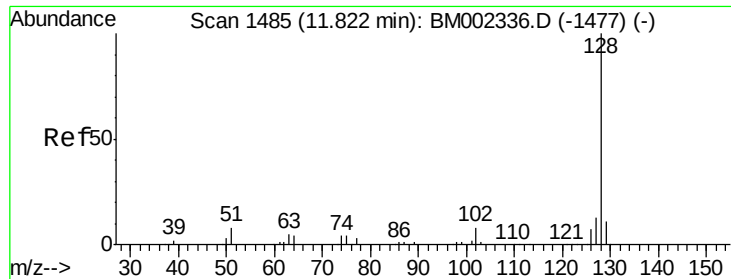
Instrument :
BNA_M
ClientSampleId :
D9C84MS

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8/12/2015 2:36:01 PM

Quant Time: Aug 12 07:27:18 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 12 04:50:31 2015
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.62 ng/ul

RT: 11.82 min Scan# 1485

Delta R.T. -0.00 min

Lab File: BM002348.D

Acq: 12 Aug 2015 06:44

Instrument :

BNA_M

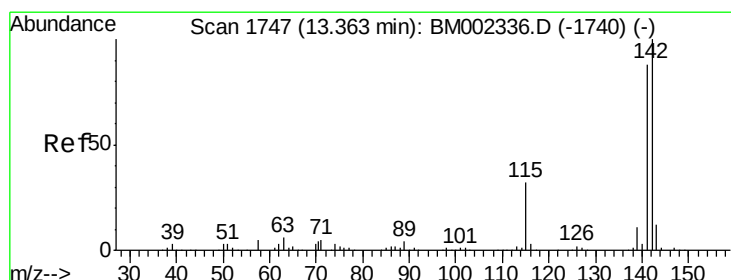
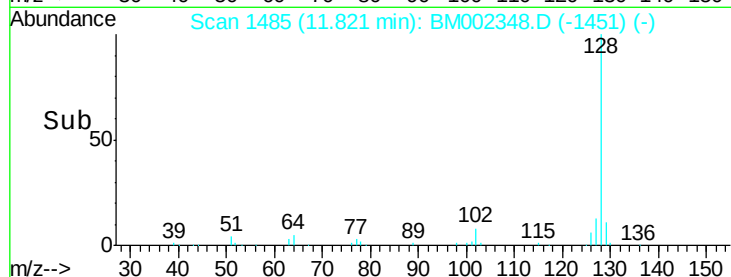
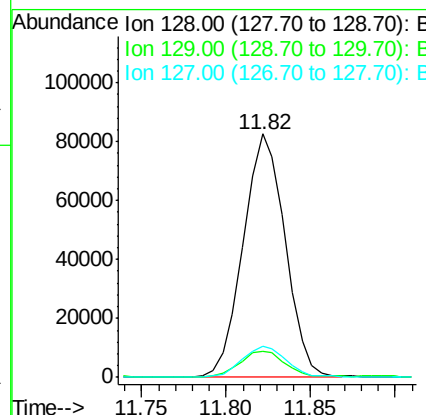
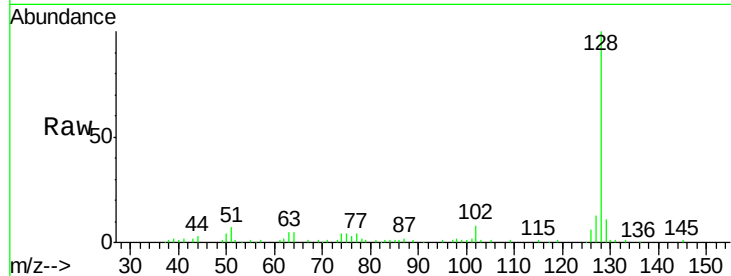
ClientSampleId :

D9C84MS

Tot Ion:128	Resp:	143278
Ion Ratio	Lower	Upper
128	100	
129	10.7	8.6 12.8
127	12.6	10.4 15.6

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#4

2-Methylnaphthalene

Concen: 2.12 ng/ul

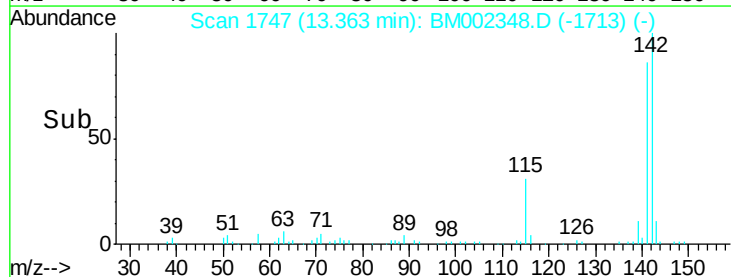
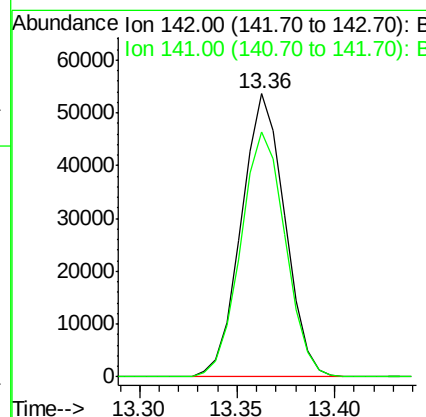
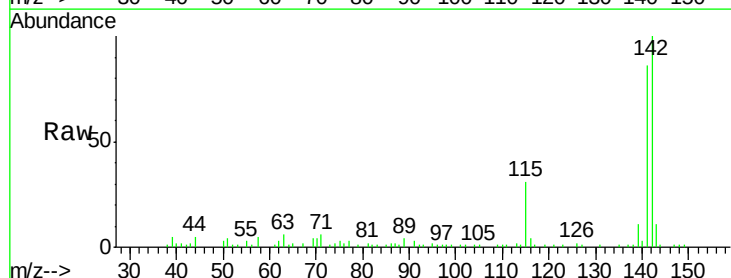
RT: 13.36 min Scan# 1747

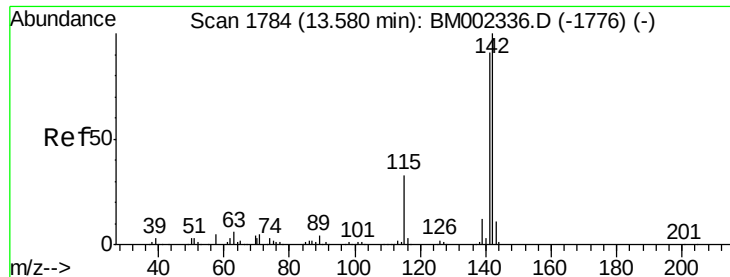
Delta R.T. -0.00 min

Lab File: BM002348.D

Acq: 12 Aug 2015 06:44

Tgt Ion:142	Resp:	82904
Ion Ratio	Lower	Upper
142	100	
141	86.5	72.5 108.7





#5

1-Methylnaphthalene

Concen: 1.75 ng/ul

RT: 13.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BM002348.D

Acq: 12 Aug 2015 06:44

Instrument :

BNA_M

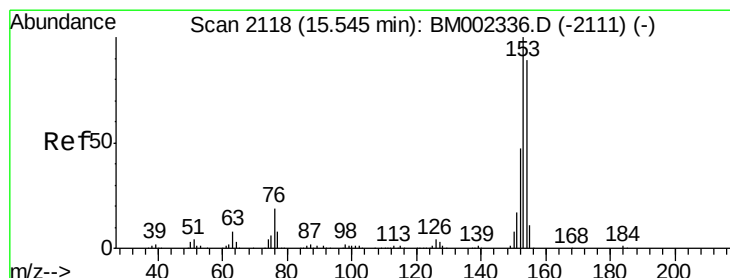
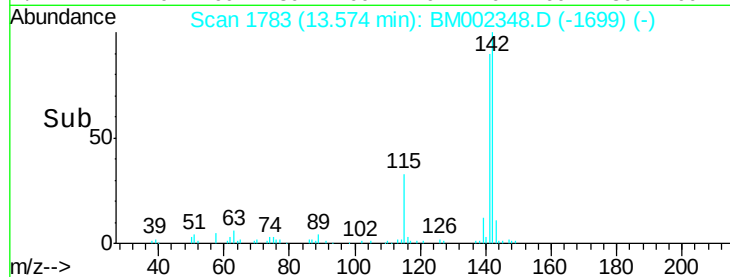
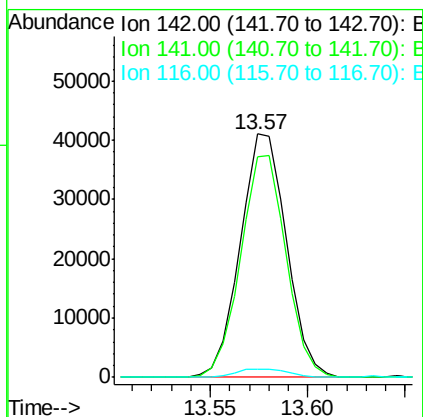
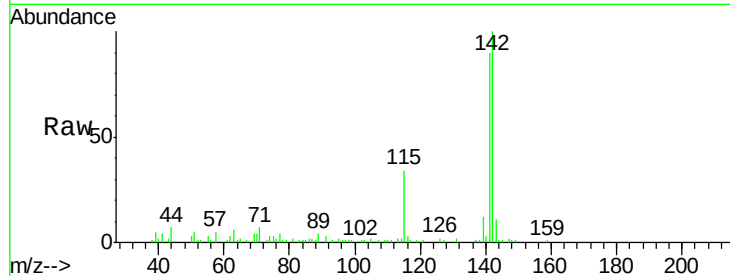
ClientSampleId :

D9C84MS

Tot Ion:	142	Resp:	67453
Ion Ratio	Lower	Upper	
142	100		
141	90.4	74.5	111.7
116	3.4	3.0	4.4

Manual Integrations
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#9

Acenaphthene

Concen: 23.60 ng/ul

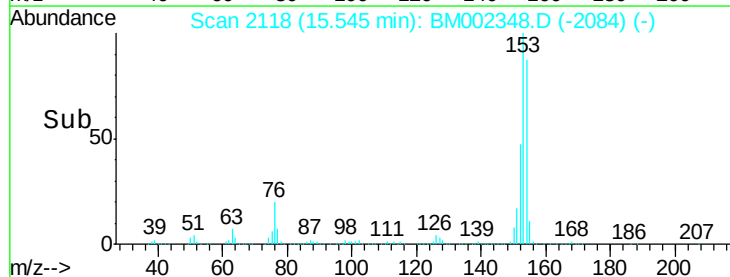
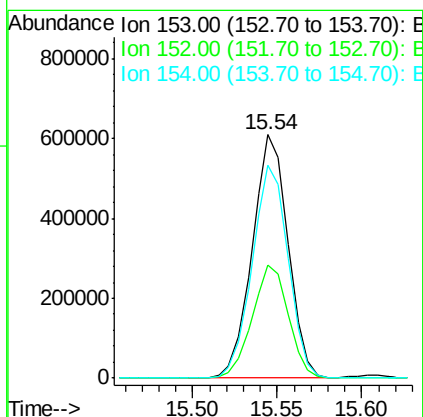
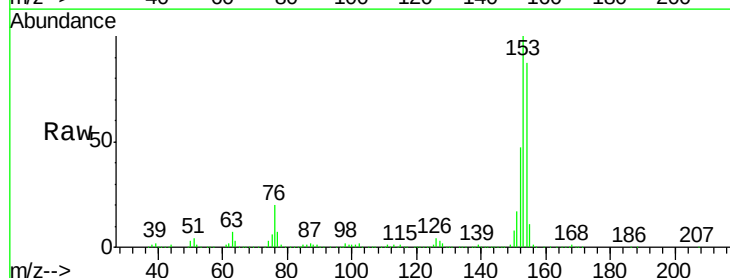
RT: 15.54 min Scan# 2118

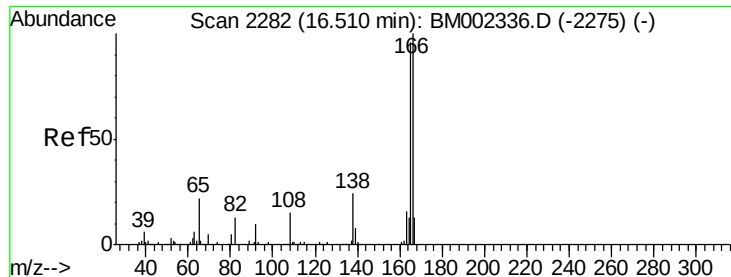
Delta R.T. -0.00 min

Lab File: BM002348.D

Acq: 12 Aug 2015 06:44

Tgt Ion:	153	Resp:	898975
Ion Ratio	Lower	Upper	
153	100		
152	46.5	36.6	55.0
154	87.3	71.5	107.3





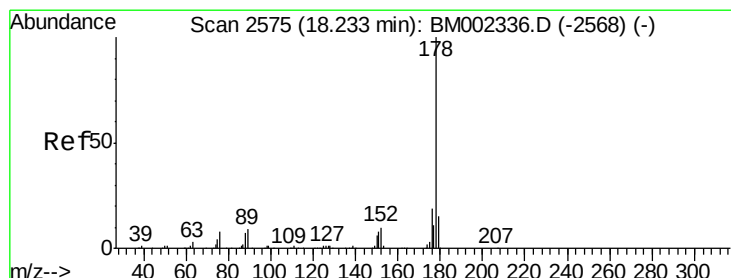
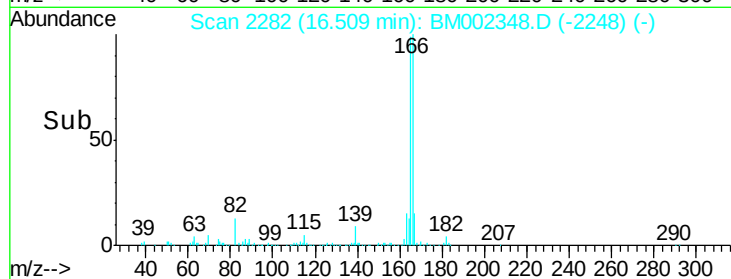
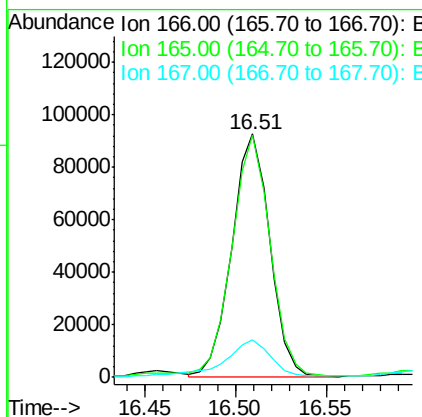
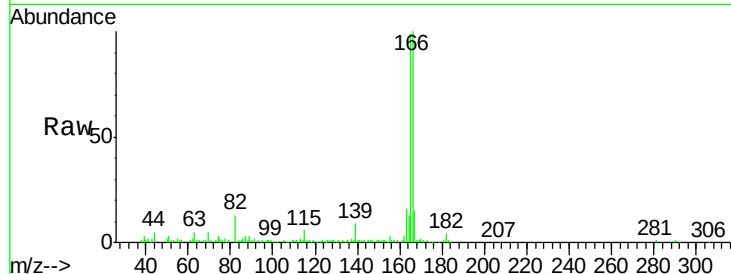
#11
Fluorene
 Concen: 3.12 ng/ul
 RT: 16.51 min Scan# 2282
 Delta R.T. -0.00 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Instrument :
 BNA_M
 ClientSampleId :
 D9C84MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		133978		
165	99.5	77.5	116.3		
167	15.3	10.4	15.6		

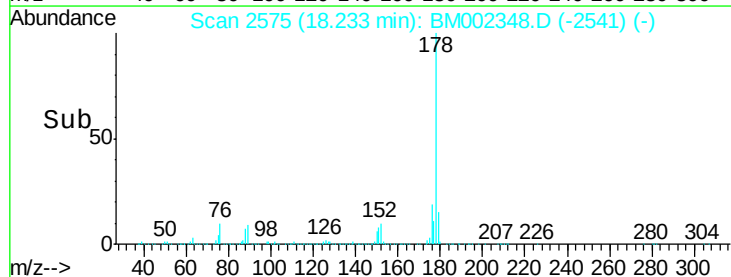
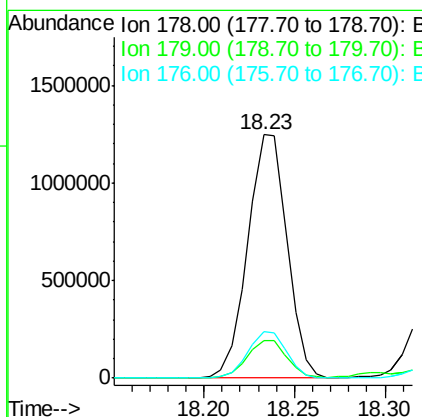
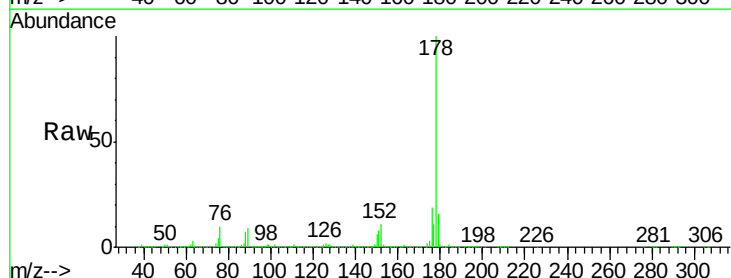
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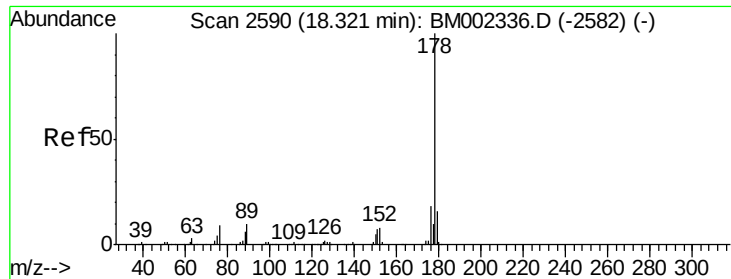
MMDadoda
 8/12/2015 2:36:01 PM



#13
Phenanthrene
 Concen: 33.43 ng/ul
 RT: 18.23 min Scan# 2575
 Delta R.T. -0.00 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100		1879501		
179	15.5	12.3	18.5		
176	19.0	15.3	22.9		





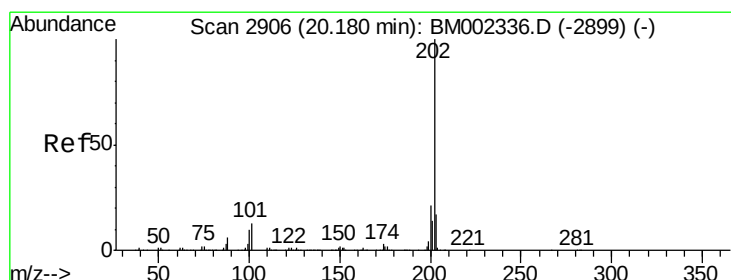
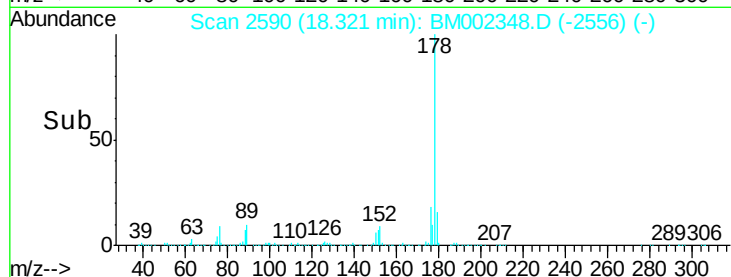
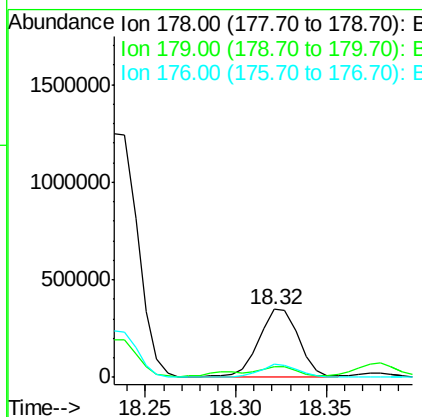
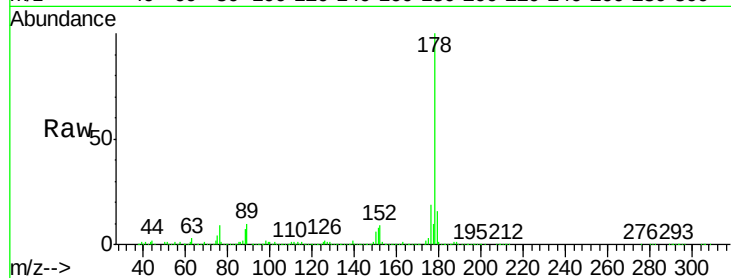
#15
 Anthracene
 Concen: 9.26 ng/ul
 RT: 18.32 min Scan# 2590
 Delta R.T. -0.00 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Instrument :
 BNA_M
 ClientSampleId :
 D9C84MS

Tot Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.3	18.5
176	18.6	14.5	21.7

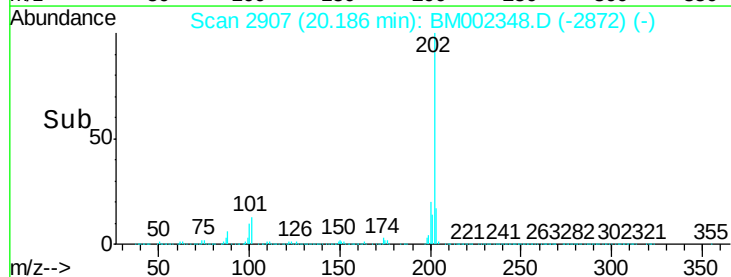
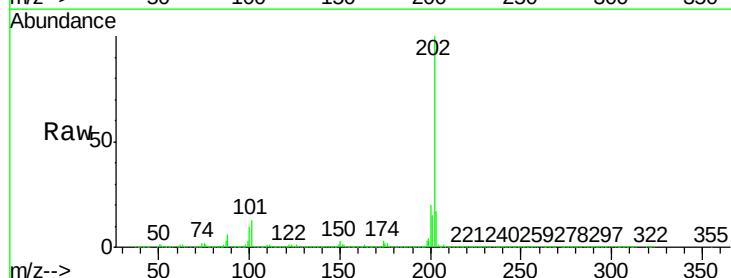
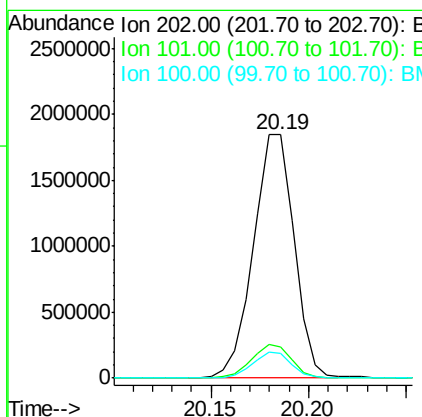
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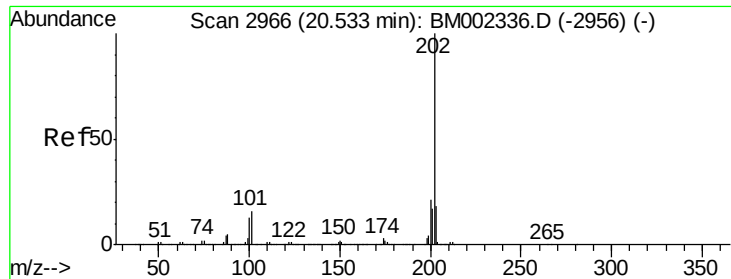
MMDadoda
 8/12/2015 2:36:01 PM



#16
 Fluoranthene
 Concen: 42.93 ng/ul
 RT: 20.19 min Scan# 2907
 Delta R.T. 0.01 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.6	15.8
100	9.9	8.2	12.4





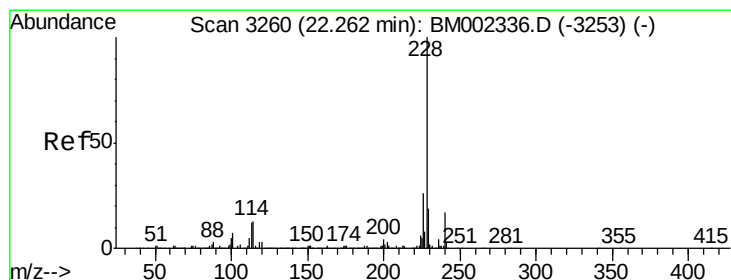
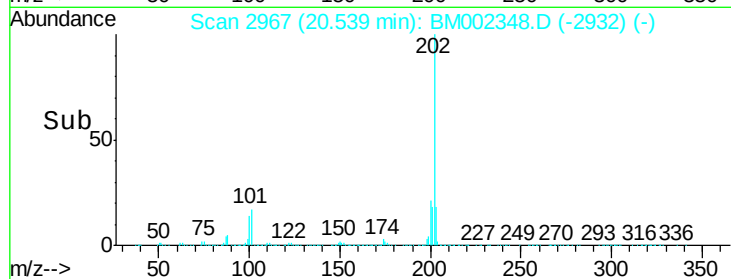
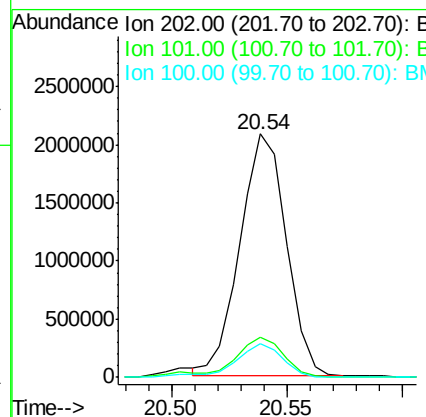
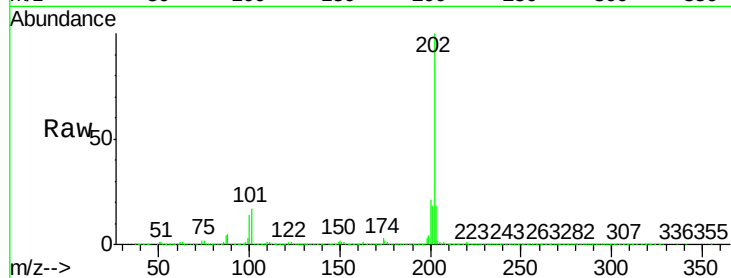
#19
Pvrene
Concen: 67.68 ng/ul
RT: 20.54 min Scan# 2967
Delta R.T. 0.01 min
Lab File: BM002348.D
Acq: 12 Aug 2015 06:44

Instrument :
BNA_M
ClientSampleId :
D9C84MS

Tot Ion	Ratio	Lower	Upper
202	100		
101	16.7	13.0	19.6
100	13.7	11.0	16.4

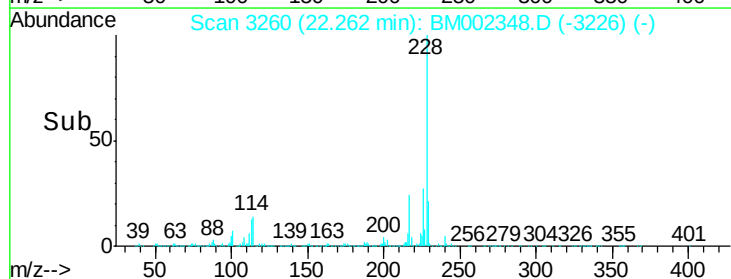
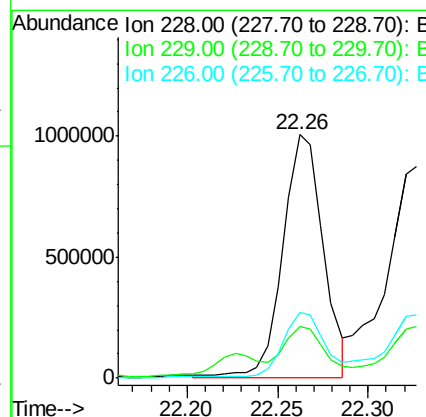
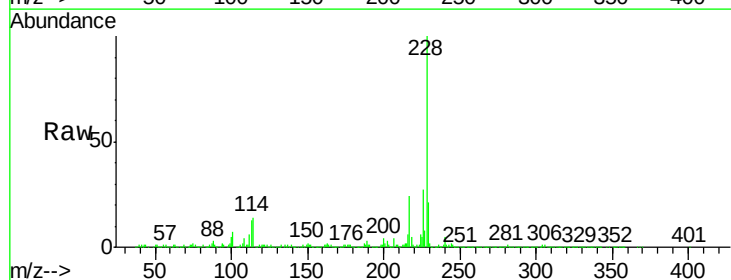
Manual Integrations
APPROVED

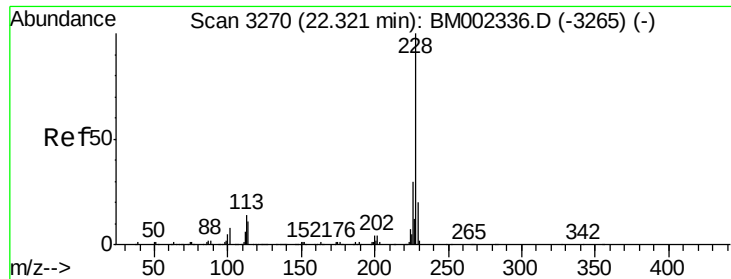
MMDadoda
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#20
Benzo(a)anthracene
Concen: 38.35 ng/ul
RT: 22.26 min Scan# 3260
Delta R.T. -0.00 min
Lab File: BM002348.D
Acq: 12 Aug 2015 06:44

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.4	15.7	23.5
226	27.1	21.4	32.0





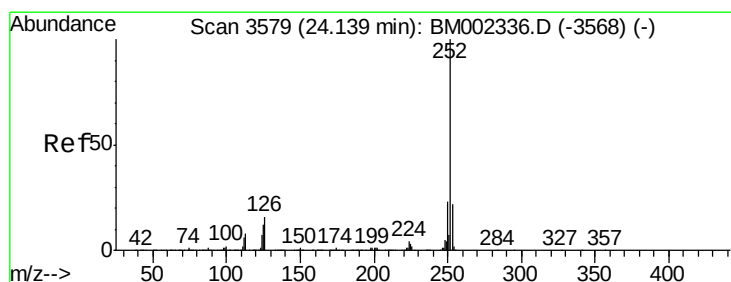
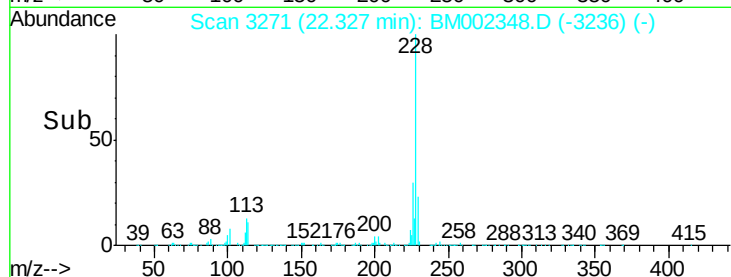
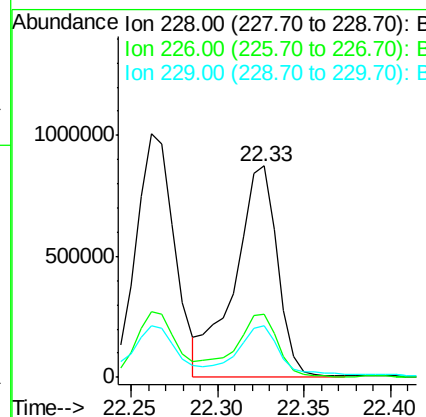
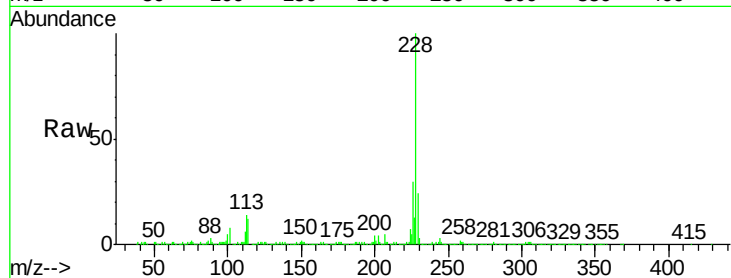
#21
Chrysene
Concen: 39.42 ng/ul m
RT: 22.33 min Scan# 3271
Delta R.T. 0.01 min
Lab File: BM002348.D
Acq: 12 Aug 2015 06:44

Instrument :
BNA_M
ClientSampleId :
D9C84MS

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.4	35.0
229	24.2	15.5	23.3

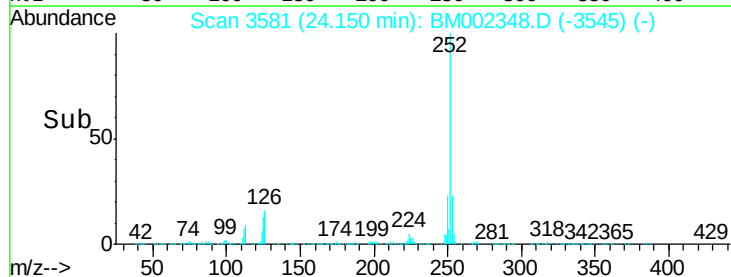
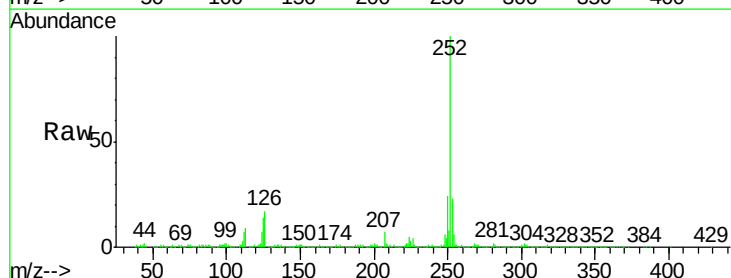
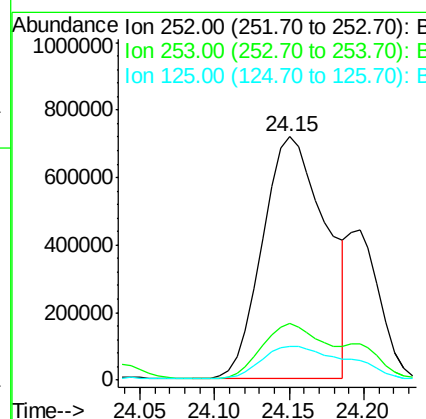
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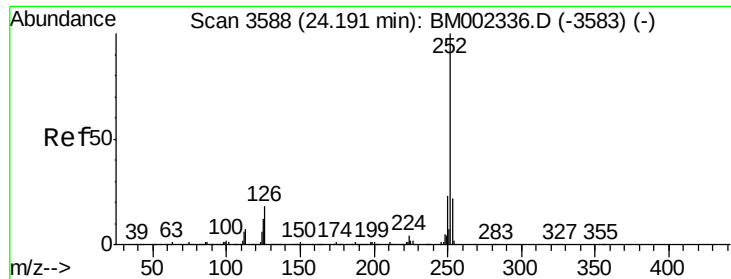
MMDadoda
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#23
Benzo(b)fluoranthene
Concen: 52.93 ng/ul
RT: 24.15 min Scan# 3581
Delta R.T. 0.01 min
Lab File: BM002348.D
Acq: 12 Aug 2015 06:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	14.0	10.3	15.5





#24

Benzo(k)fluoranthene

Concen: 17.17 ng/ul m

RT: 24.20 min Scan# 3589

Delta R.T. 0.01 min

Lab File: BM002348.D

Acq: 12 Aug 2015 06:44

Instrument :

BNA_M

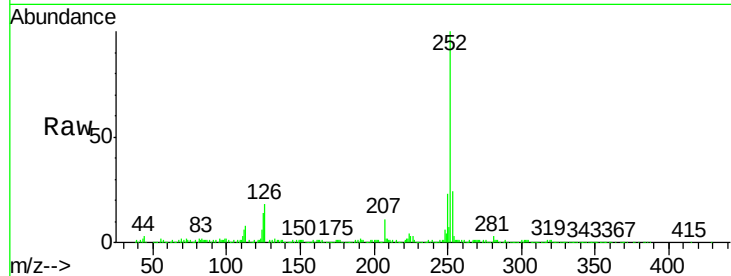
ClientSampleId :

D9C84MS

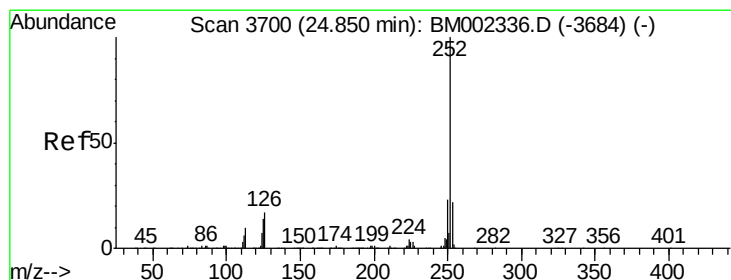
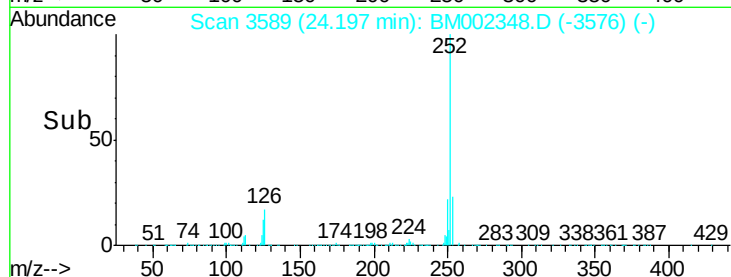
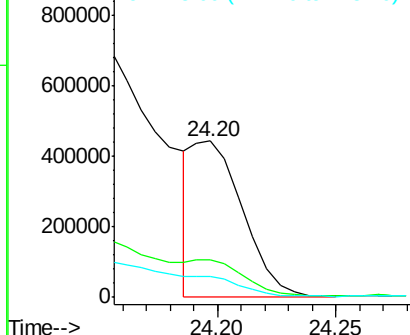
Tot Ion:	252	Resp:	662540
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.3	25.9
125	13.5	10.2	15.4

Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Benzo(a)pyrene

Concen: 37.97 ng/ul

RT: 24.86 min Scan# 3702

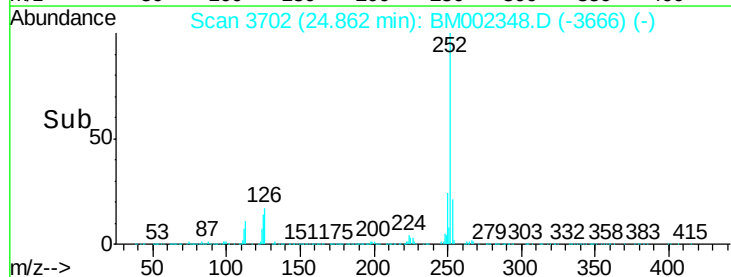
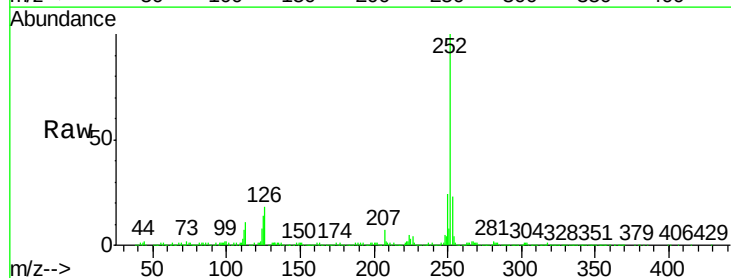
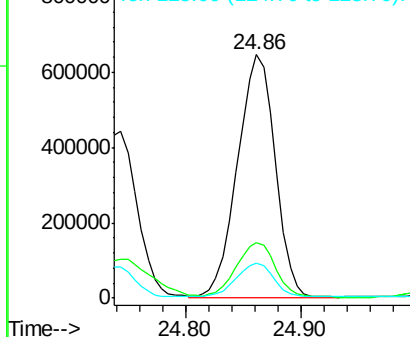
Delta R.T. 0.01 min

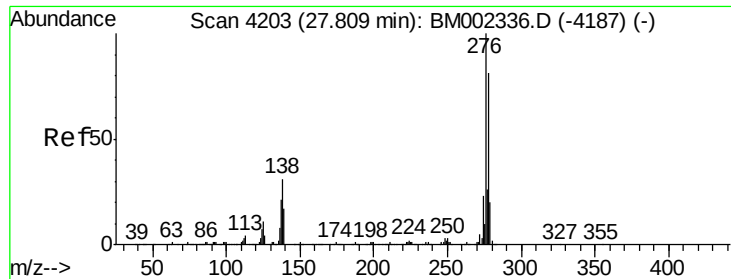
Lab File: BM002348.D

Acq: 12 Aug 2015 06:44

Tgt Ion:	252	Resp:	1460124
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.3	25.9
125	14.4	11.0	16.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





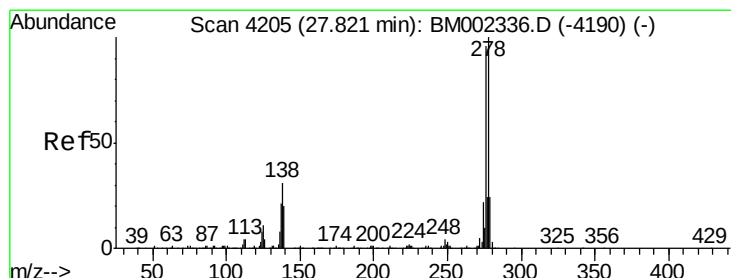
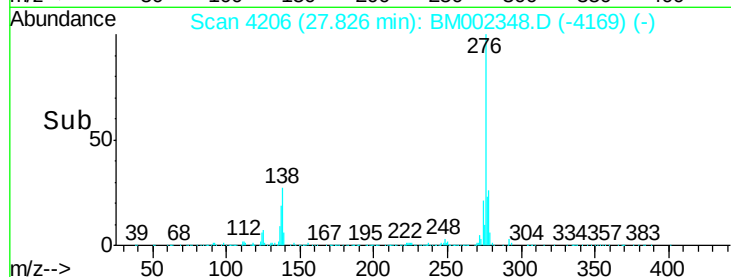
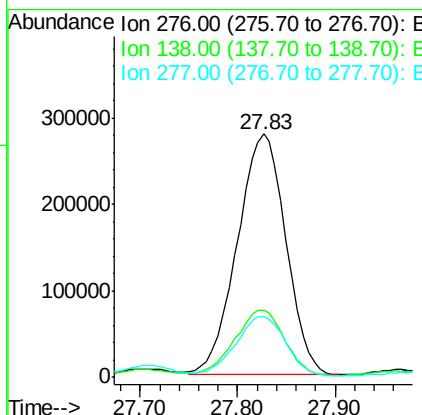
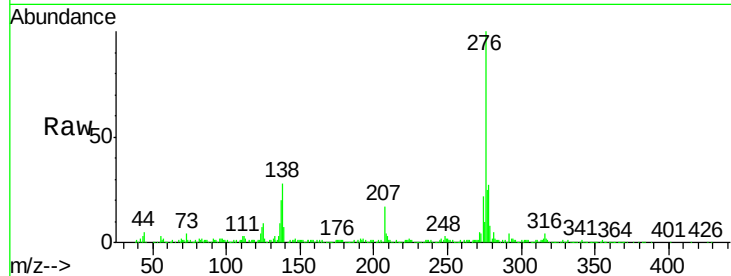
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 21.98 ng/ul
 RT: 27.83 min Scan# 4206
 Delta R.T. 0.02 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Instrument :
 BNA_M
 ClientSampleId :
 D9C84MS

Tot Ion:	276	Resp:	969109
Ion Ratio	Lower	Upper	
276	100		
138	27.5	25.6	38.4
277	24.8	21.0	31.4

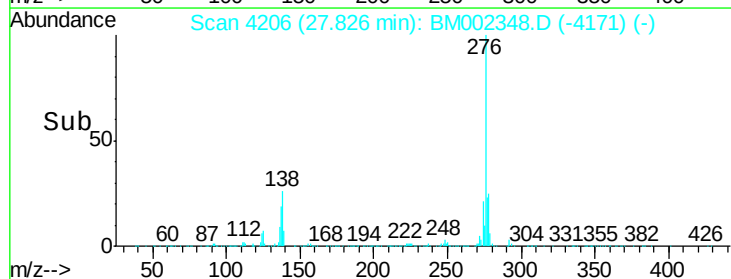
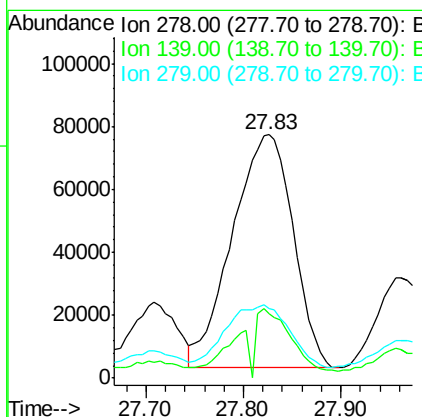
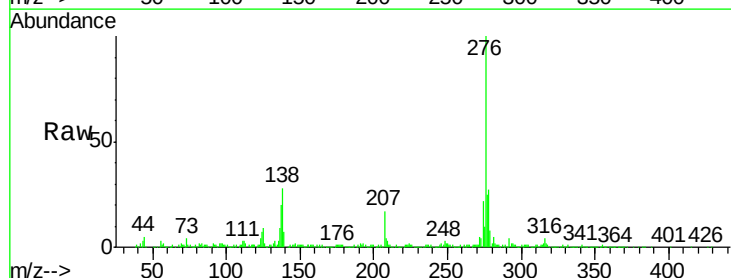
Manual Integrations
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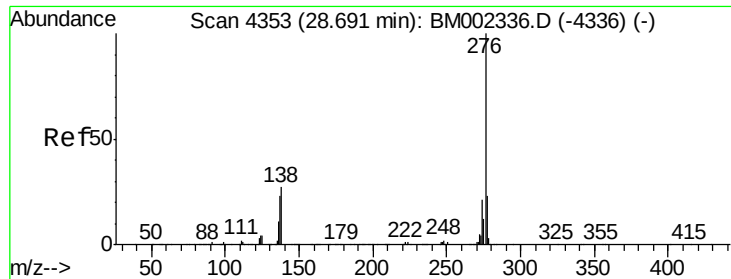
MMDadoda
 8/12/2015 2:36:01 PM



#28
 Dibenzo(a,h)anthracene
 Concen: 8.66 ng/ul
 RT: 27.83 min Scan# 4206
 Delta R.T. 0.01 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Tgt Ion:	278	Resp:	323376
Ion Ratio	Lower	Upper	
278	100		
139	26.2	16.4	24.6#
279	28.5	18.8	28.2#





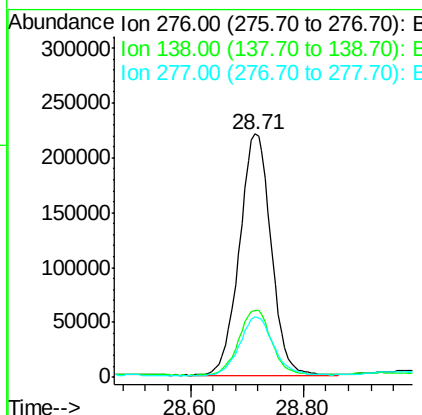
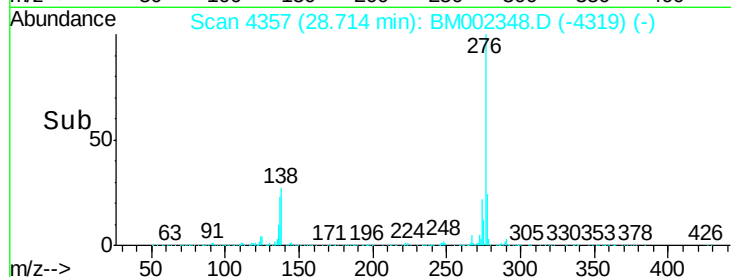
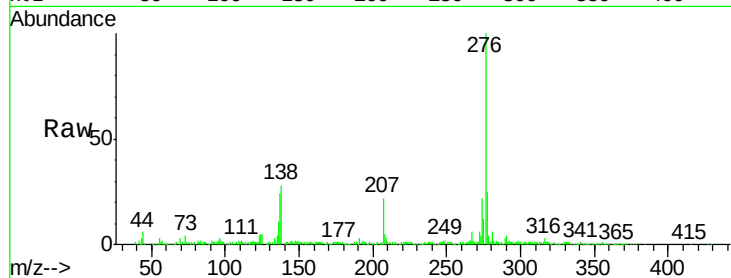
#29
 Benzo(a,h,i)perylene
 Concen: 23.09 ng/ul
 RT: 28.71 min Scan# 4357
 Delta R.T. 0.02 min
 Lab File: BM002348.D
 Acq: 12 Aug 2015 06:44

Instrument :
 BNA_M
 ClientSampleId :
 D9C84MS

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.6	20.5	30.7
277	25.0	19.0	28.6

Manual Integrations
 APPROVED

MMDadoda
 8/12/2015 2:36:01 PM



Data Path : Z:\HPCHEM1\BNA M\DATA\BM081215\
 Data File : BM002348.D
 Acq On : 12 Aug 2015 06:44
 Operator : UM/IZ
 Sample : G3162-18MS
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9C84MS

Manual Integrations
 APPROVED

MMDadoda
 8/12/2015 2:36:01 PM

Quant Time: Aug 12 07:27:18 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 12 04:50:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.90	152	227996	20.00	ng/ul	0.00
2) Naphthalene-d8	11.77	136	1038679	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.48	164	526666	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.19	188	976785	20.00	ng/ul	0.00
17) Chrysene-d12	22.28	240	668722	20.00	ng/ul	0.00
22) Perylene-d12	24.98	264	646620	20.00	ng/ul	0.01
System Monitoring Compounds						
7) Acenaphthylene-d8	15.19	160	1296909	23.77	ng/ul	0.00
10) Fluorene-d10	16.46	176	845844	22.29	ng/ul	0.00
14) Anthracene-d10	18.29	188	1120939	23.65	ng/ul	0.00
18) Pyrene-d10	20.51	212	893432	27.55	ng/ul	0.00
25) Benzo(a)pyrene-d12	24.80	264	683682	19.91	ng/ul	0.01
Target Compounds				Ovalue		
3) Naphthalene	11.82	128	143278	2.62	ng/ul	99
4) 2-Methylnaphthalene	13.36	142	82904	2.12	ng/ul	96
5) 1-Methylnaphthalene	13.57	142	67453	1.75	ng/ul	97
9) Acenaphthene	15.54	153	898975	23.60	ng/ul	98
11) Fluorene	16.51	166	133978	3.12	ng/ul	97
13) Phenanthrene	18.23	178	1879501	33.43	ng/ul	100
15) Anthracene	18.32	178	537600	9.26	ng/ul	99
16) Fluoranthene	20.19	202	2672359	42.93	ng/ul	99
19) Pyrene	20.54	202	2925958	67.68	ng/ul	100
20) Benzo(a)anthracene	22.26	228	1565338	38.35	ng/ul	98
21) Chrysene	22.33	228	1525056m	39.42	ng/ul	
23) Benzo(b)fluoranthene	24.15	252	2127177	52.93	ng/ul	98
24) Benzo(k)fluoranthene	24.20	252	662540m	17.17	ng/ul	
26) Benzo(a)pyrene	24.86	252	1460124	37.97	ng/ul	98
27) Indeno(1,2,3-cd)pyrene	27.83	276	969109	21.98	ng/ul	94
28) Dibenzo(a,h)anthracene	27.83	278	323376	8.66	ng/ul#	89
29) Benzo(g,h,i)perylene	28.71	276	858775	23.09	ng/ul	97

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