

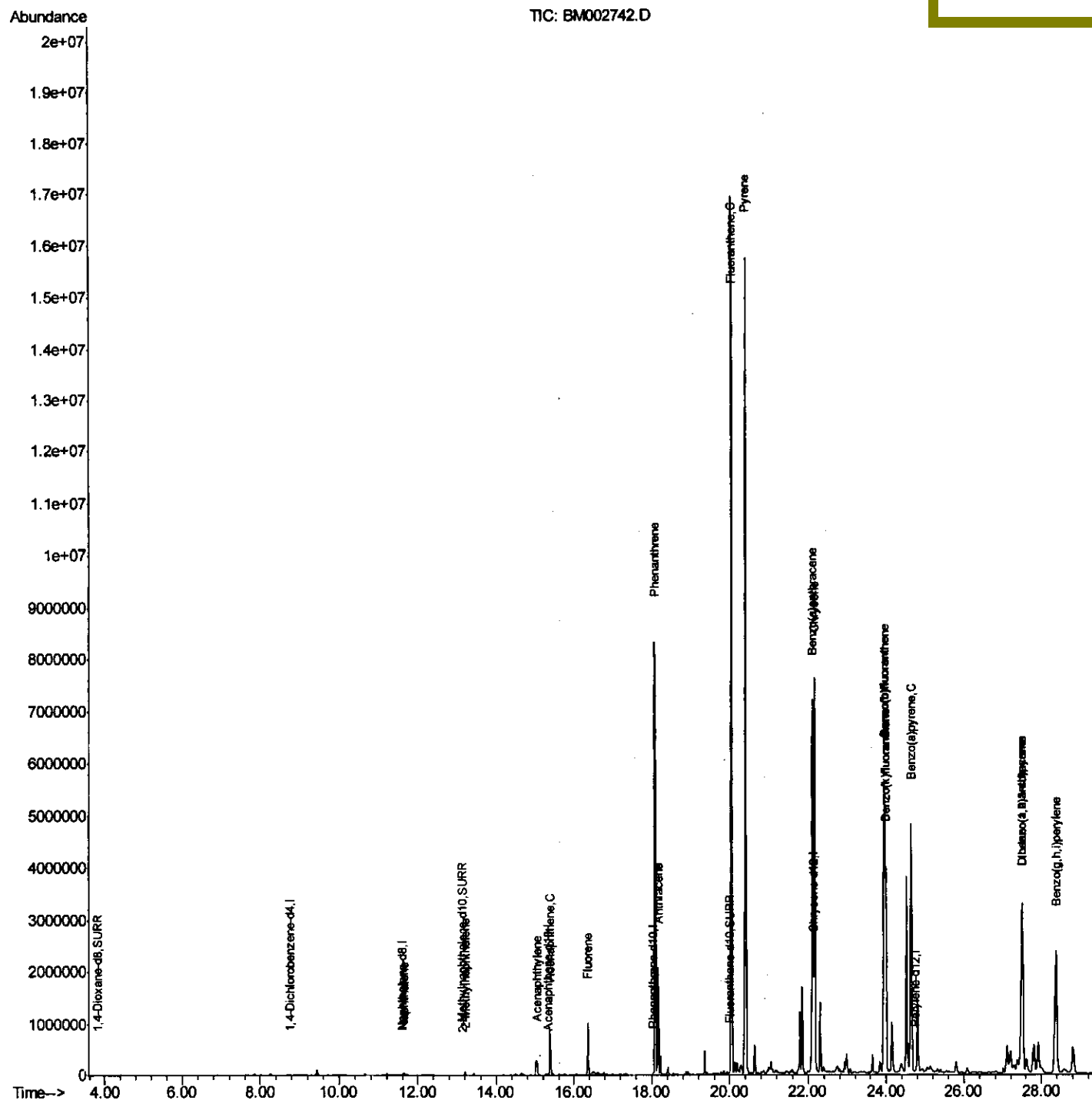
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
Data File : BM002742.D
Acq On : 28 Sep 2015 20:17
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9G75

Quant Time: Sep 29 07:32:46 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 29 02:52:19 2015
Response via : Initial Calibration

Manual Integrations
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9/29/2015 3:43:26 PM



Quantitation Report (Qedit)

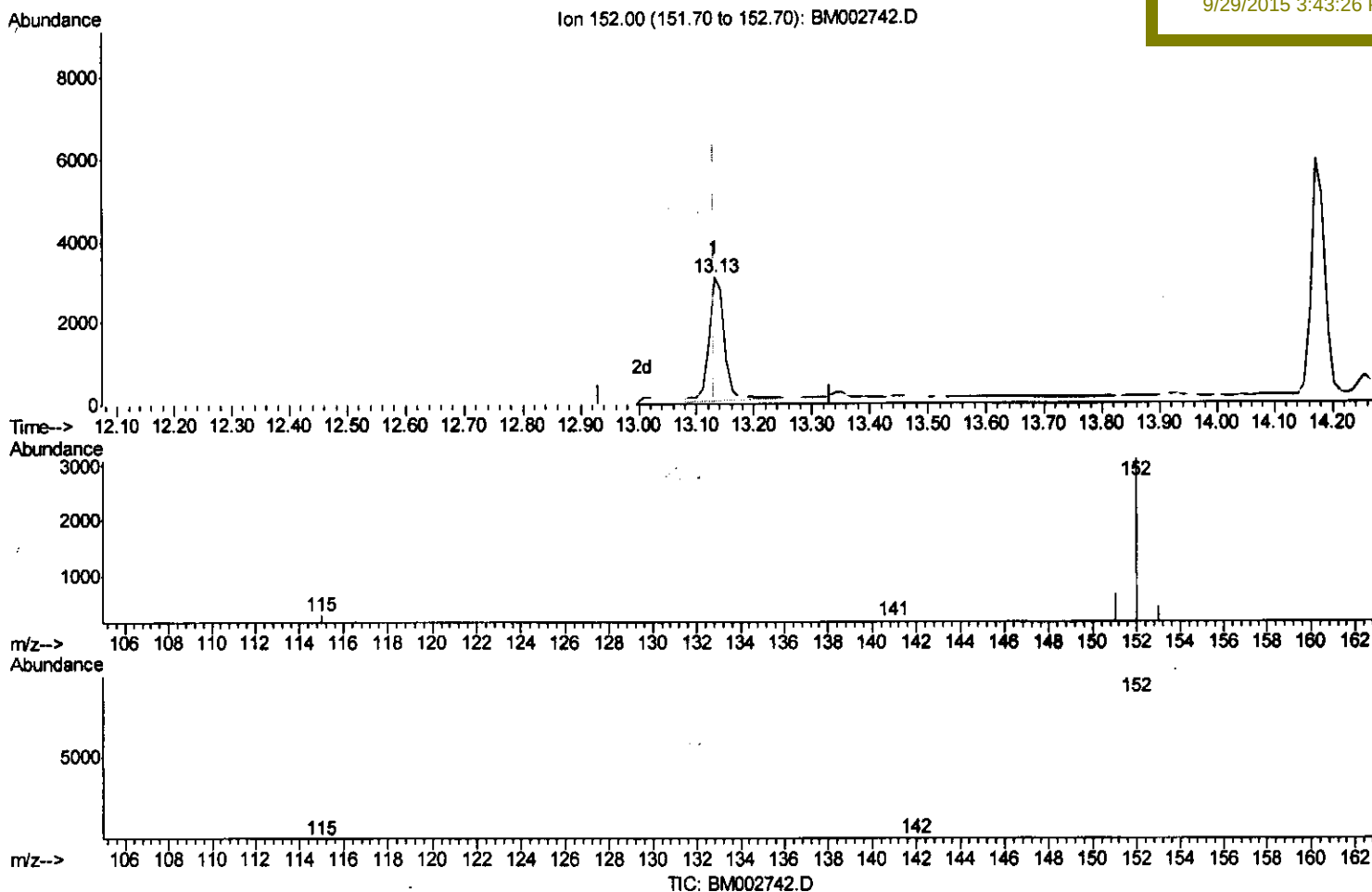
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Manual Integrations
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 9/29/2015 3:43:26 PM

Quant Time: Sep 29 07:28:44 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration



(6) 2-Methylnaphthalene-d10 (SURR)

13.131min (-0.000) 0.11ng/ul

response 5753

Ion	Exp%	Act%
152.00	100	100
151.00	18.90	31.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

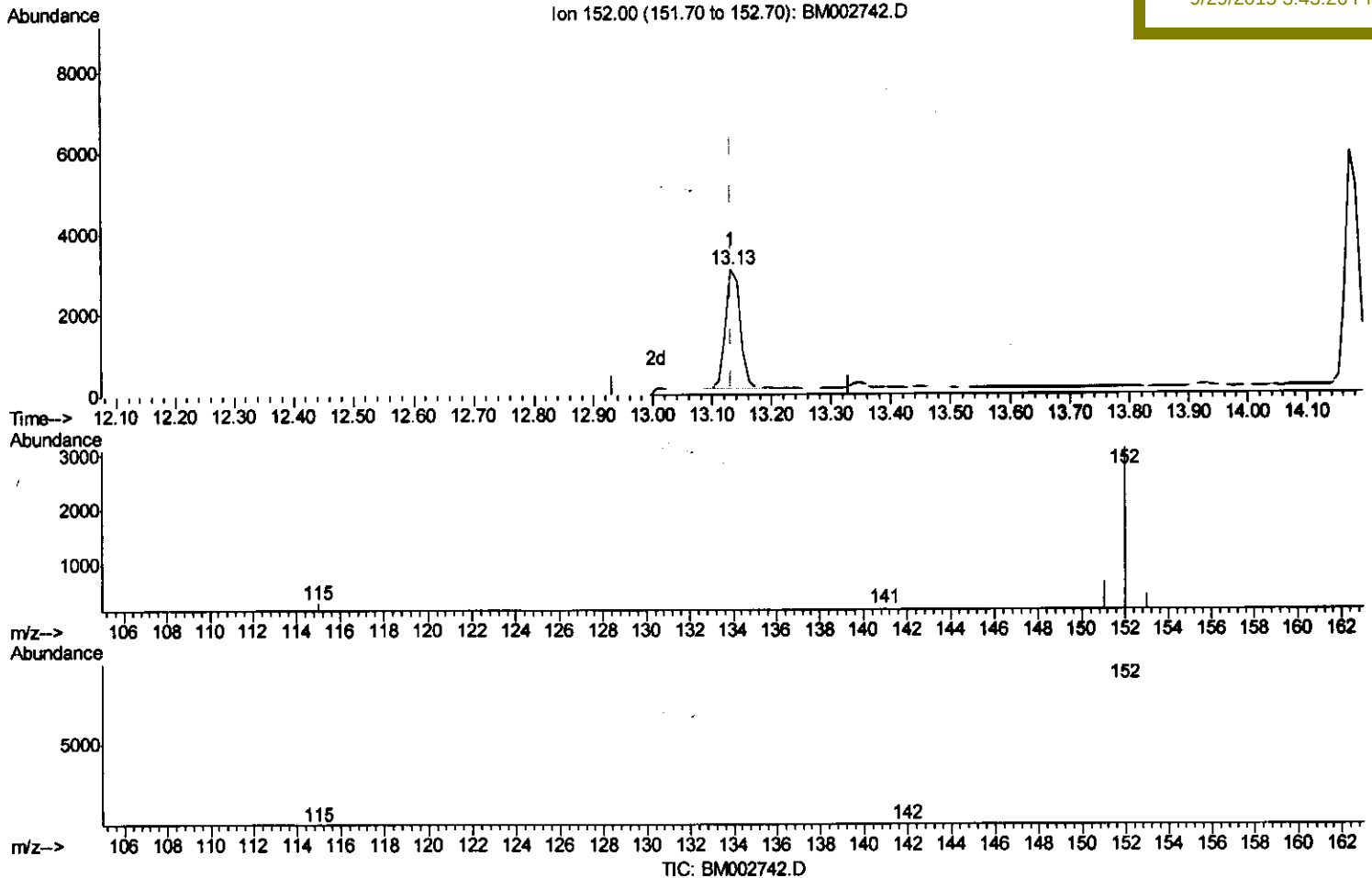
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:43:26 PM

Quant Time: Sep 29 07:28:44 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration



(6) 2-Methylnaphthalene-d10 (SURR)

13.131min (-0.000) 0.10ng/ul m

response 5101

Ion	Exp%	Act%
152.00	100	100
151.00	18.90	35.76#
0.00	0.00	0.00
0.00	0.00	0.00

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 09/30/15

Quantitation Report (Qedit)

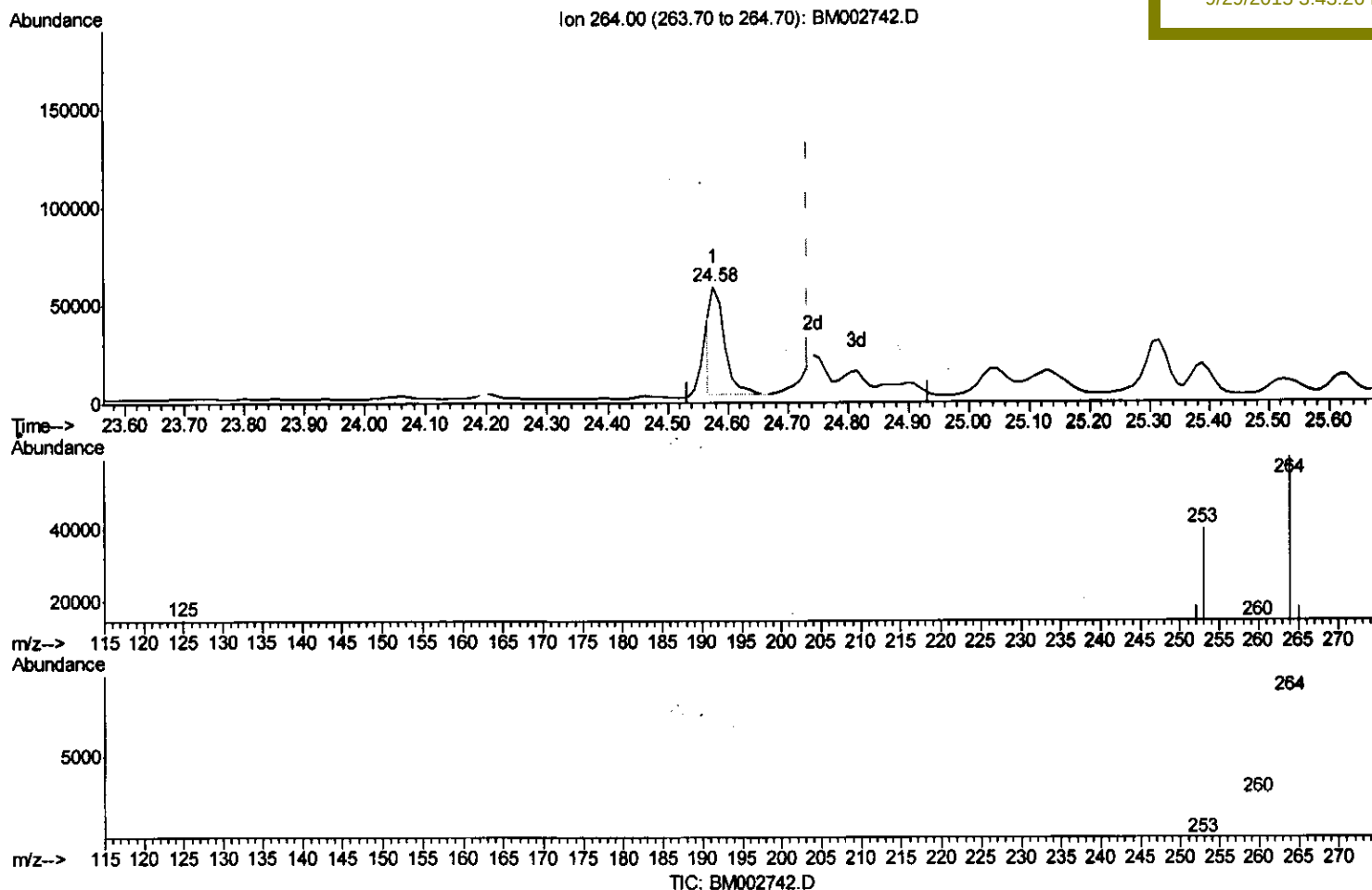
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Manual Integrations
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 9/29/2015 3:43:26 PM

Quant Time: Sep 29 07:28:44 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration



(22) Perylene-d12 (I)

24.575min (-0.158) 0.40ng/ul

response 89926

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	24.70
265.00	34.70	30.79
0.00	0.00	0.00

Quantitation Report (Qedit)

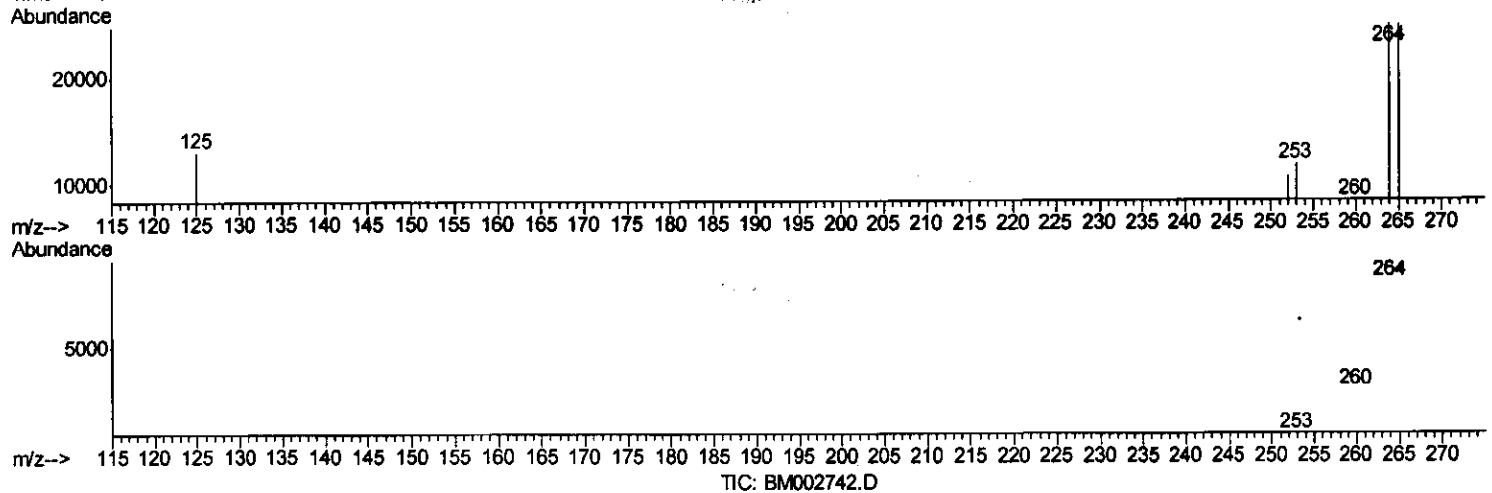
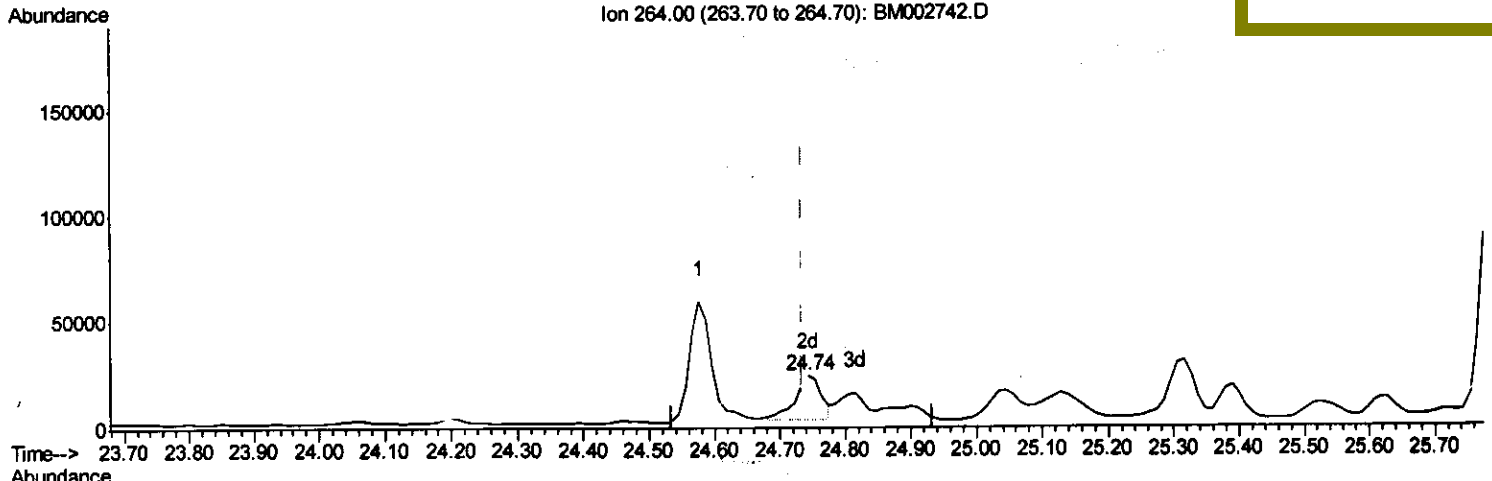
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:28:44 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 9/29/2015 3:43:26 PM



(22) Perylene-d12 (I)

24.742min (+0.009) 0.40ng/ul m

response 56793

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	33.30
265.00	34.70	99.36#
0.00	0.00	0.00

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Quantitation Report (Qedit)

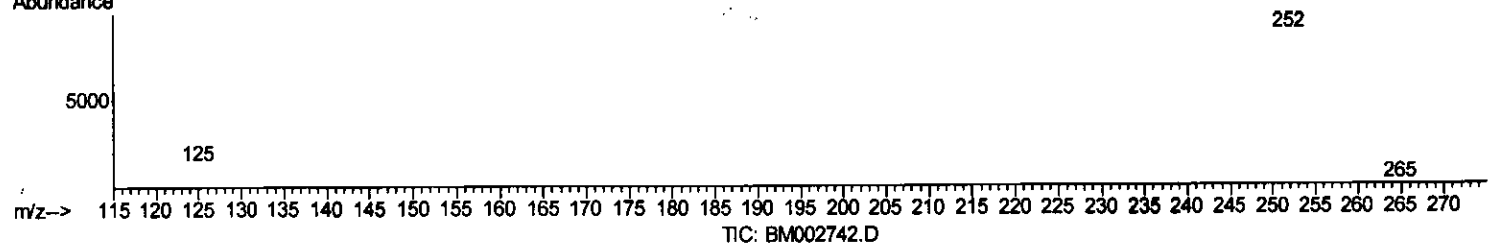
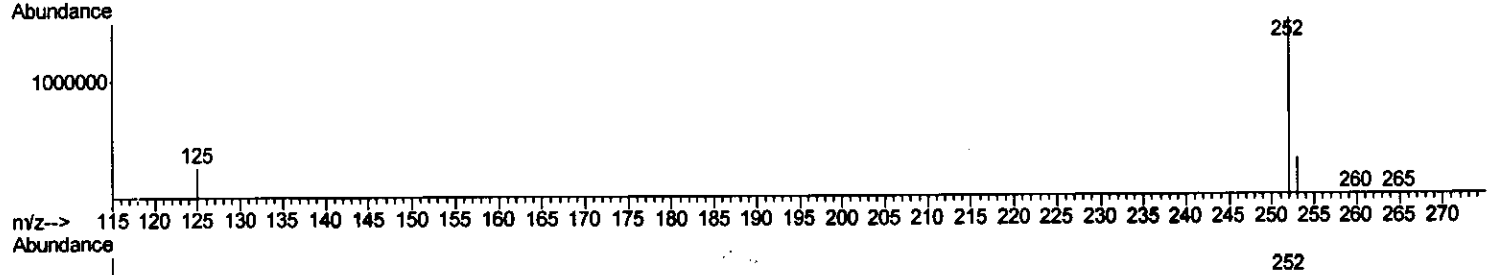
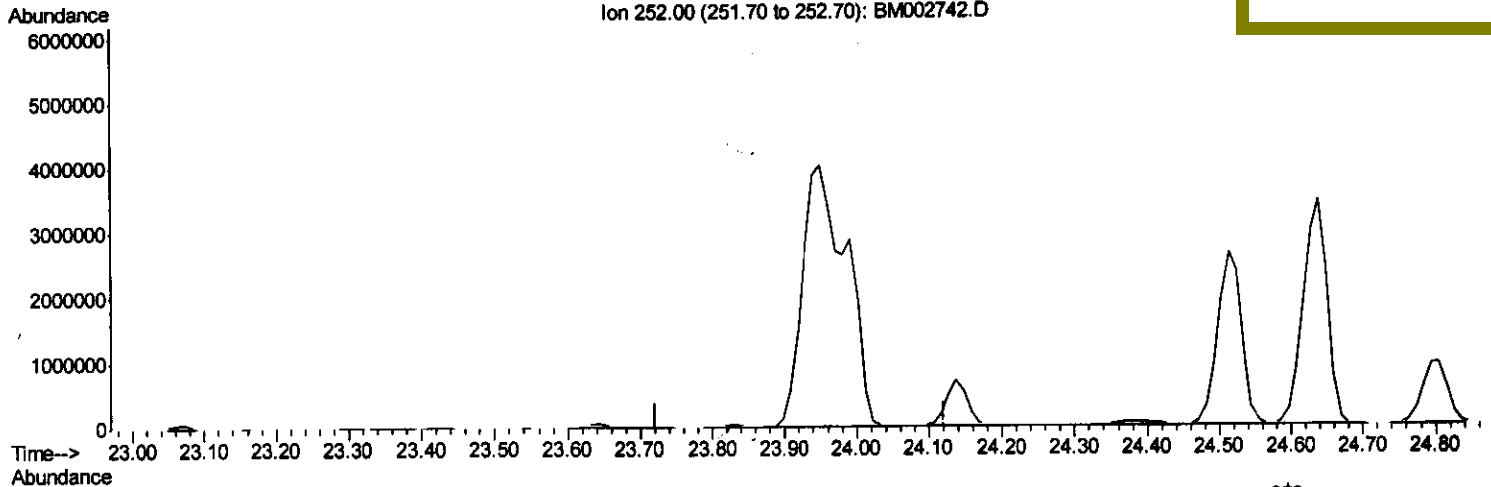
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 9/29/2015 3:43:26 PM



(23) Benzo(b)fluoranthene

23.920min (-23.920) 0.00ng/ul

response 0

Ion	Exp%	Act%
252.00	100	0.00
253.00	24.00	0.00
125.00	18.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

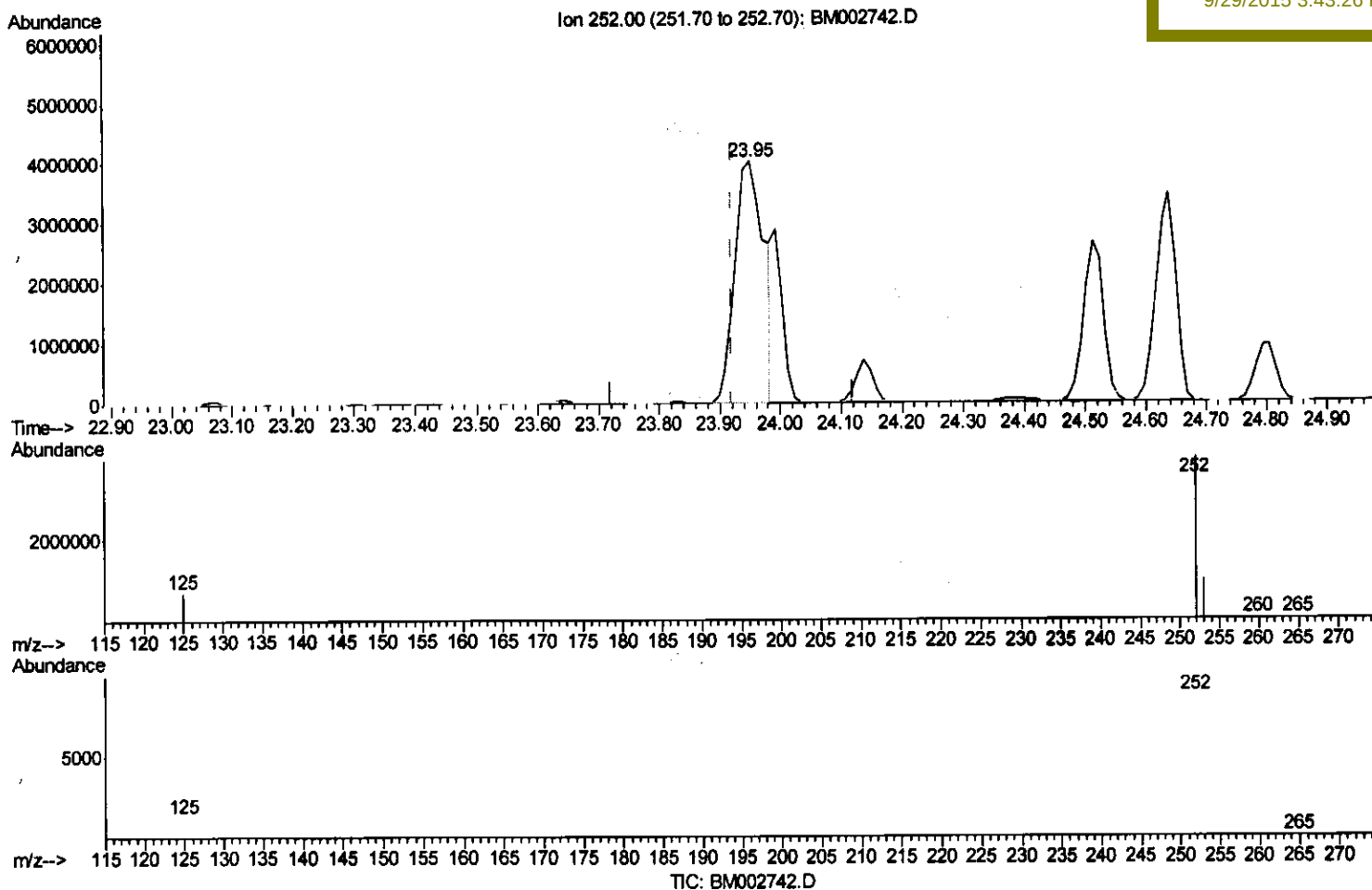
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
Data File : BM002742.D
Acq On : 28 Sep 2015 20:17
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9G75

Quant Time: Sep 29 07:30:28 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 29 02:52:19 2015
Response via : Initial Calibration

Manual Integrations
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(23) Benzo(b)fluoranthene

23.950min (+0.030) 65.79ng/ul m

response 13470127

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	24.01
125.00	18.30	17.41
0.00	0.00	0.00

> U.M
09/30/15

Quantitation Report (Qedit)

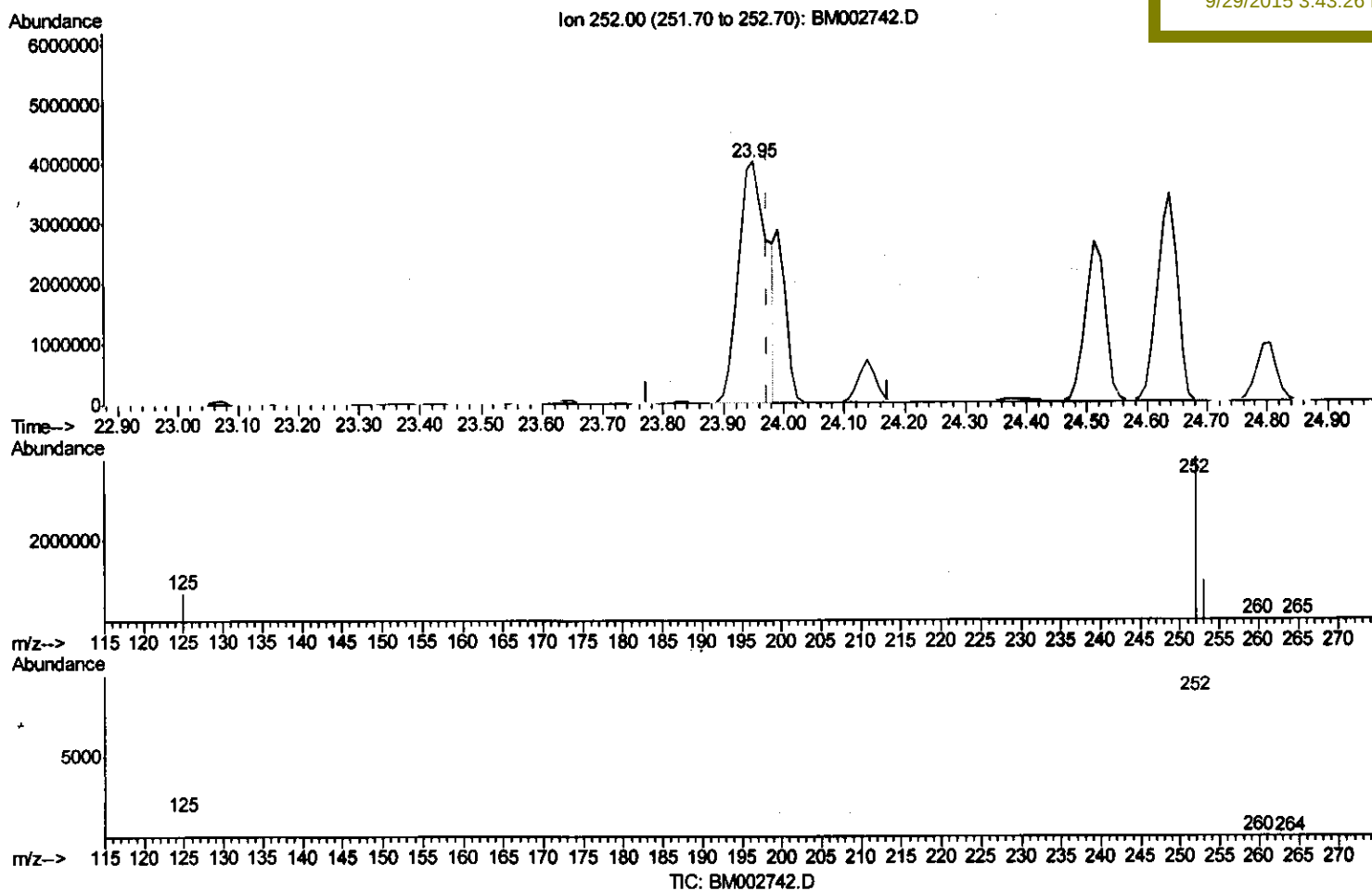
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
Data File : BM002742.D
Acq On : 28 Sep 2015 20:17
Operator : UM/IZ
Sample : G3798-23
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA M
ClientSampleId :
D9G75

Quant Time: Sep 29 07:30:28 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 29 02:52:19 2015
Response via : Initial Calibration

Manual Integrations
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(24) Benzo(k)fluoranthene

23.950min (-0.023) 70.83ng/ui

response 13435392

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	24.01
125.00	15.30	17.41
0.00	0.00	0.00

Quantitation Report (Qedit)

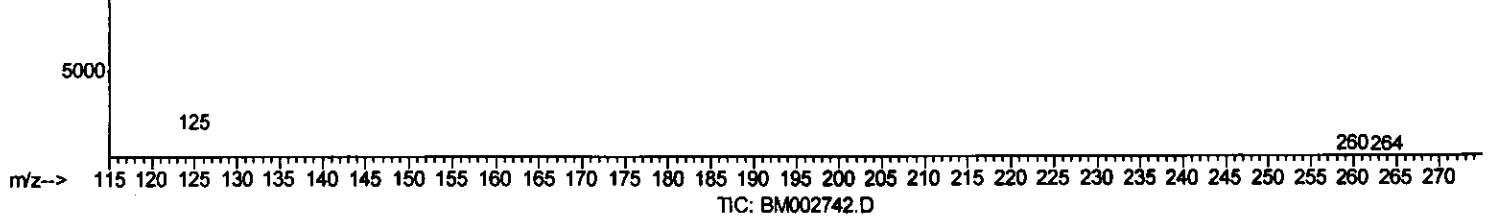
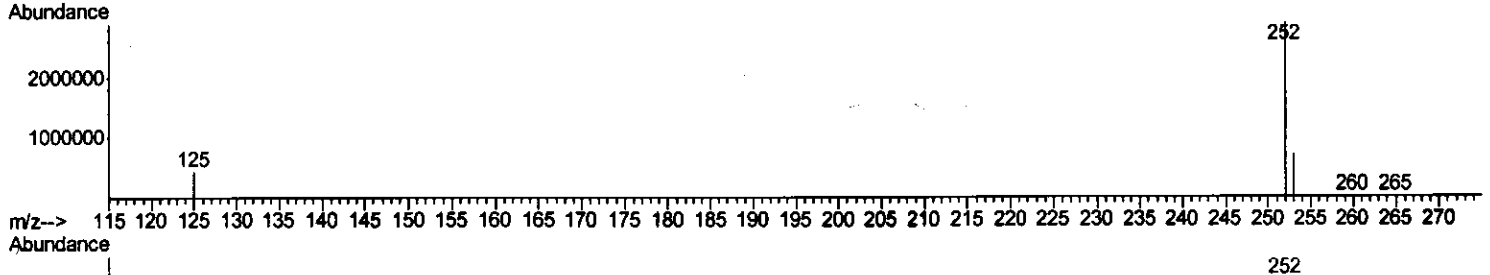
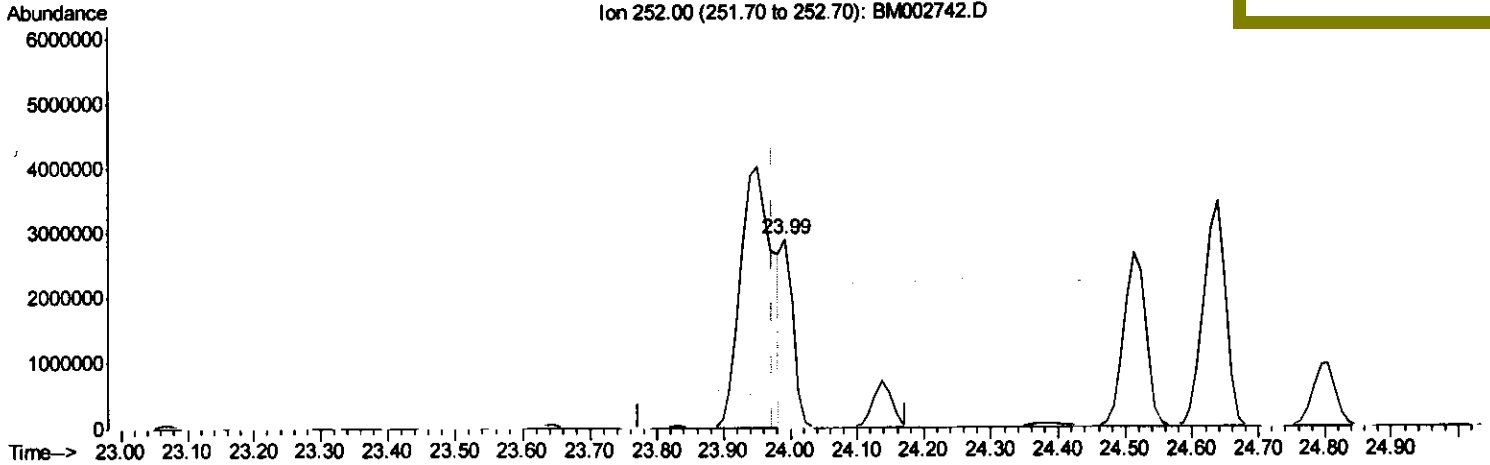
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
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 9/29/2015 3:43:26 PM



(24) Benzo(k)fluoranthene

23.992min (+0.019) 18.00ng/ul m

response 3414674

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	24.19
125.00	15.30	15.23
0.00	0.00	0.00

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09/29/15

Quantitation Report (Qedit)

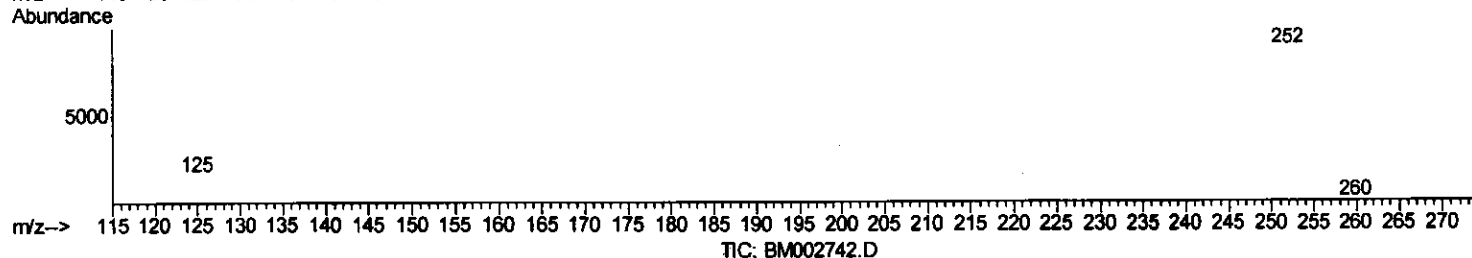
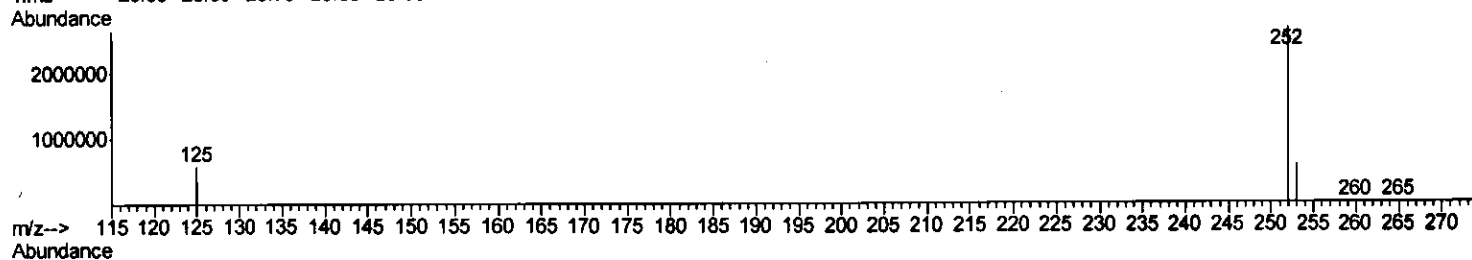
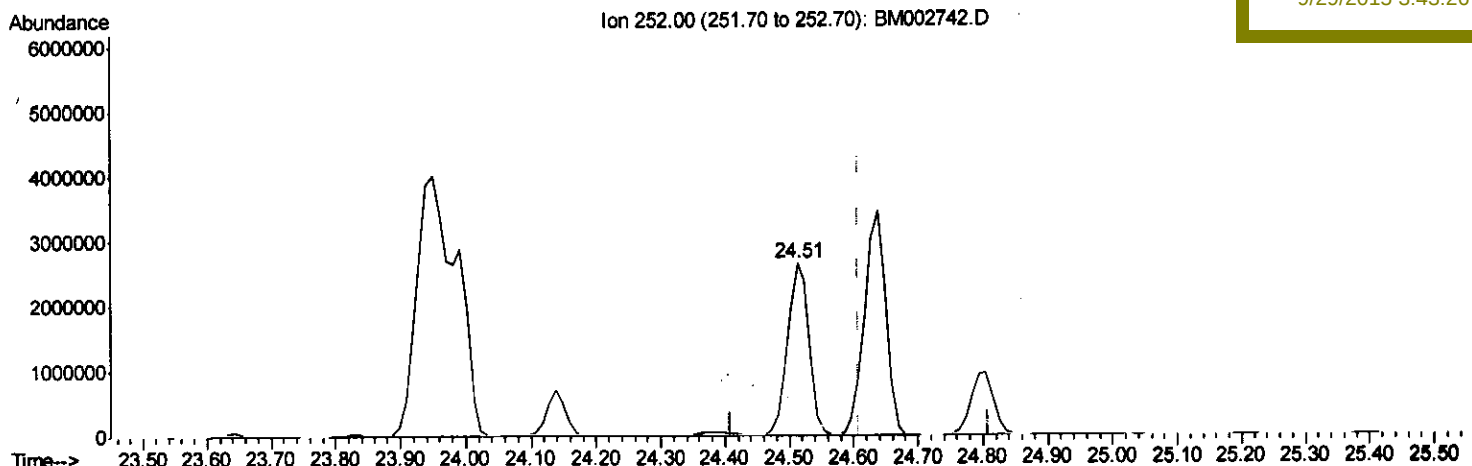
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
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(25) Benzo(a)pyrene (C)

24.513min (-0.096) 32.14ng/ul

response 6059294

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	22.27
125.00	18.10	22.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

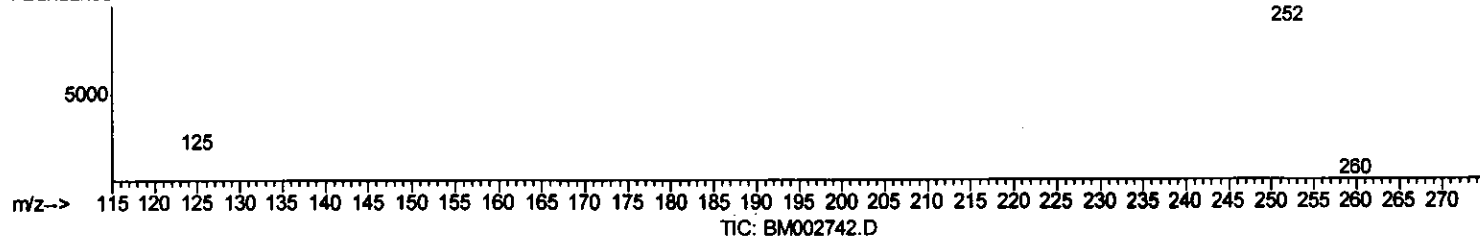
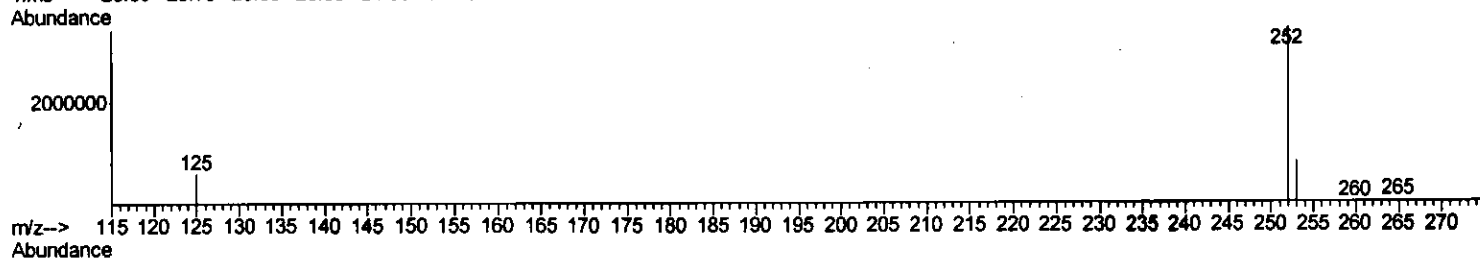
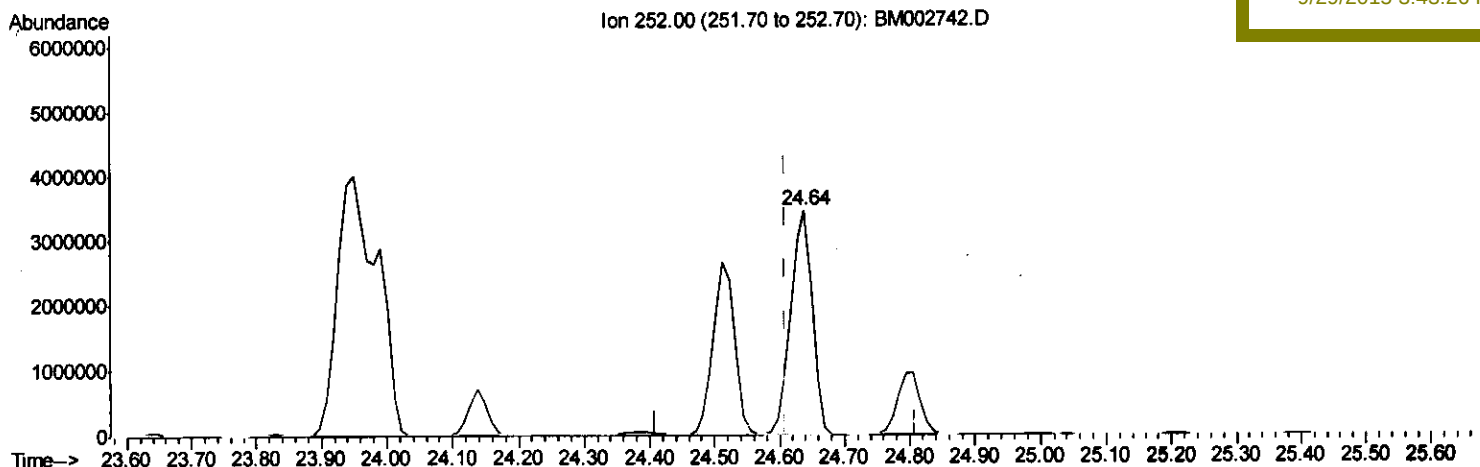
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
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(25) Benzo(a)pyrene (C)

24.638min (+0.030) 42.55ng/ul m

response 8022313

$\frac{U \cdot M}{0.9/20/15}$

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	23.51
125.00	18.10	16.96
0.00	0.00	0.00

Quantitation Report (Qedit)

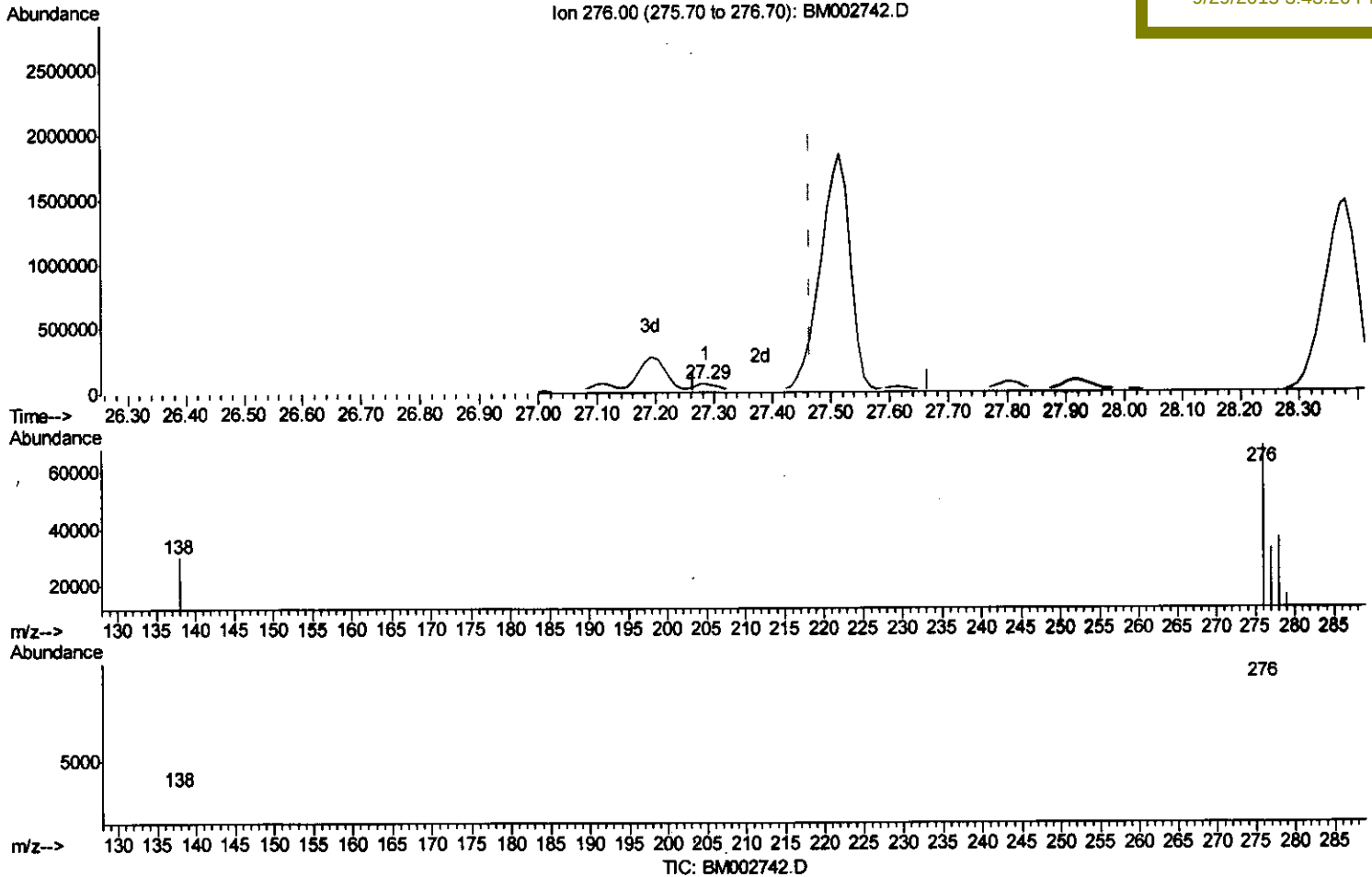
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
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(26) Indeno(1,2,3-cd)pyrene

27.286min (-0.179) 0.64ng/ul

response 133722

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	34.02
277.00	24.10	47.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

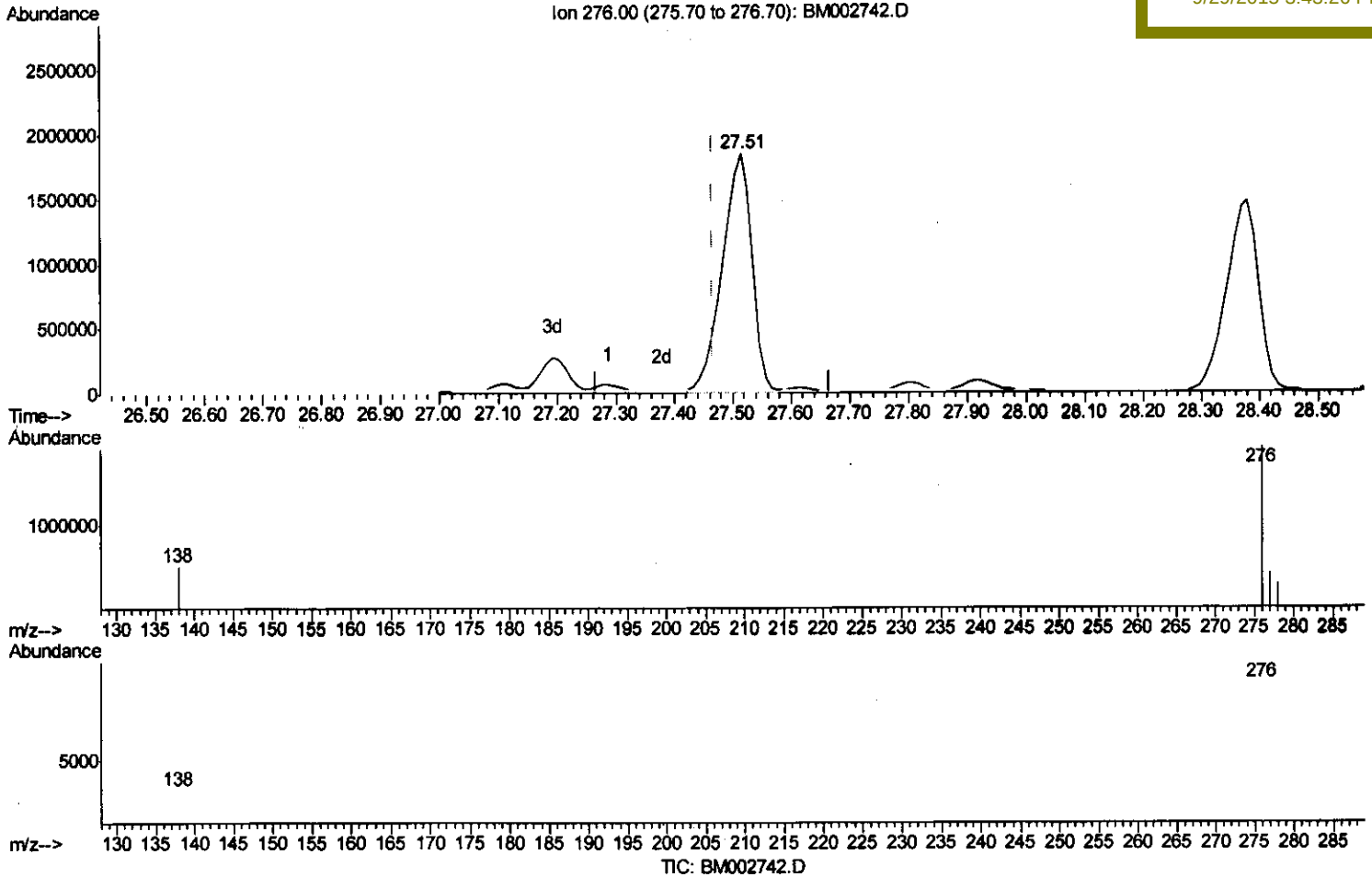
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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(26) Indeno(1,2,3-cd)pyrene

27.515min (+0.050) 31.37ng/ul m

response 6596071

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	0.69#
277.00	24.10	0.97#
0.00	0.00	0.00

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 09/30/15

Quantitation Report (Qedit)

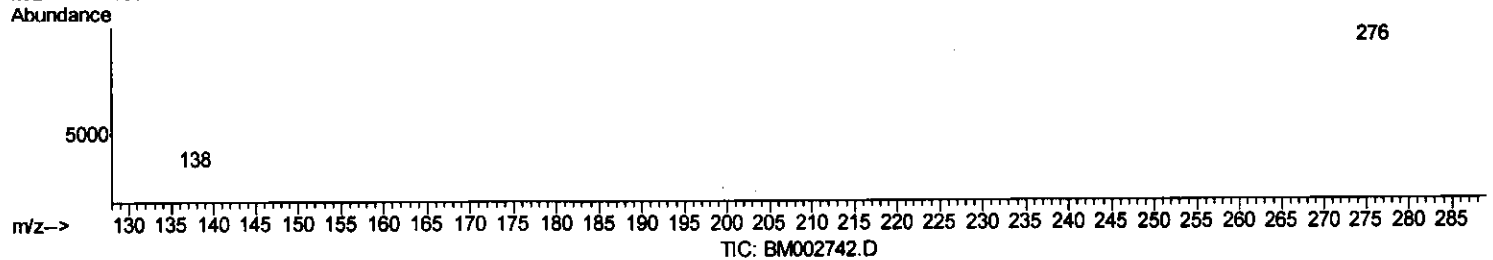
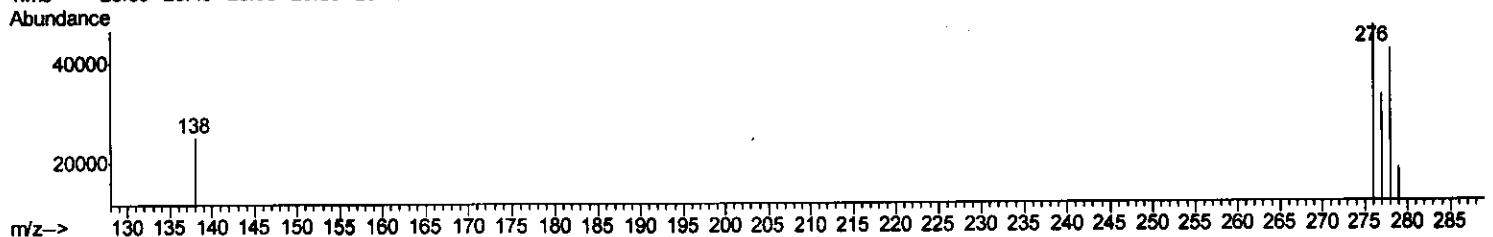
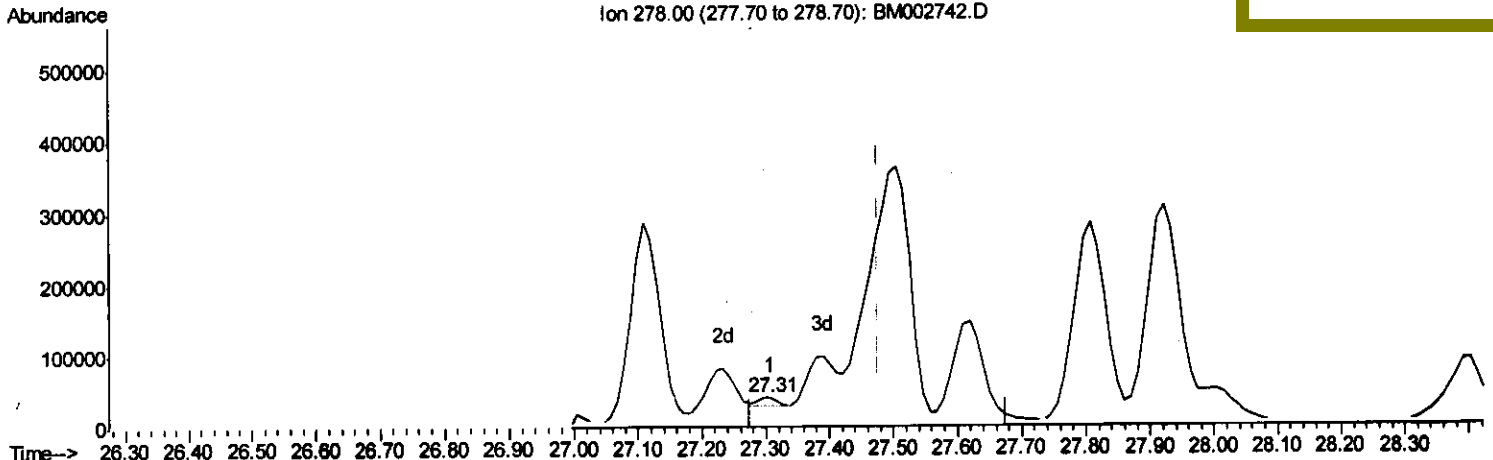
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
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(27) Dibenzo(a,h)anthracene

27.306min (-0.169) 0.14ng/ul

response 23679

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	28.10
279.00	27.40	44.22#
0.00	0.00	0.00

Quantitation Report (Qedit)

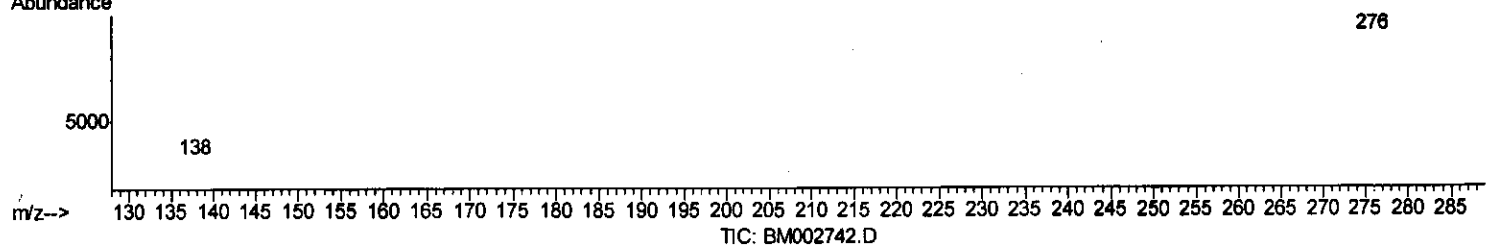
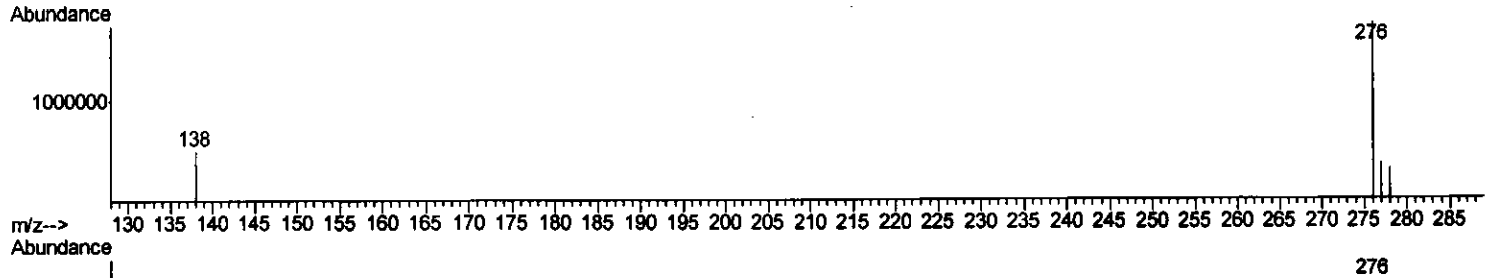
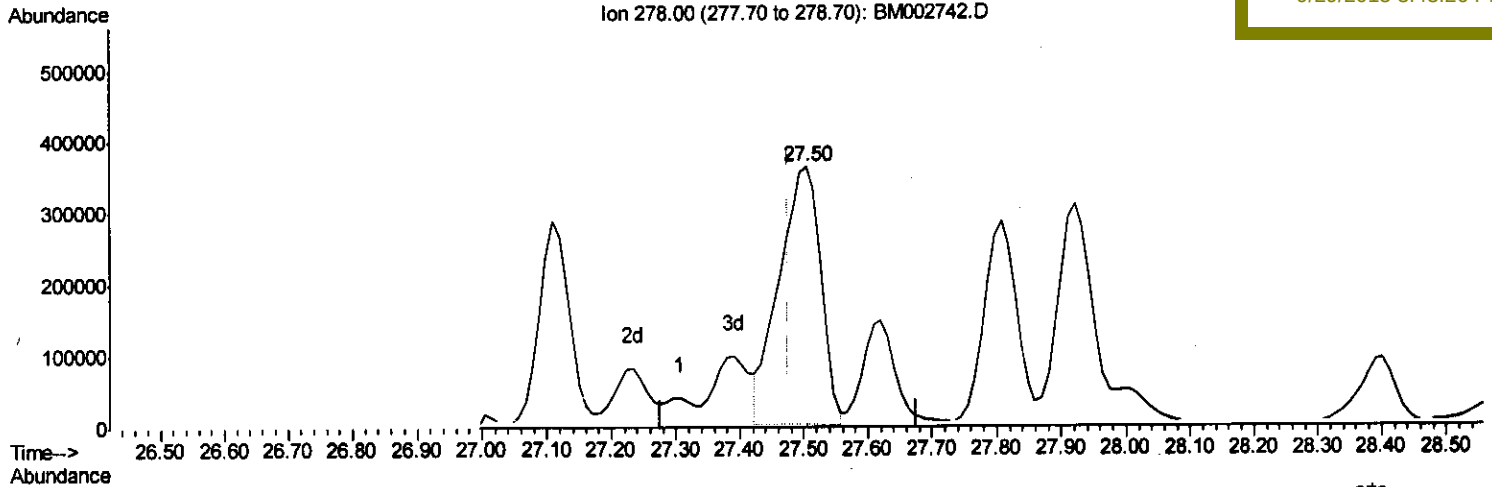
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
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(27) Dibenzo(a,h)anthracene

27.505min (+0.030) 9.39ng/ul m

response 1619850

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	25.16
279.00	27.40	25.56
0.00	0.00	0.00

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Quantitation Report (Qedit)

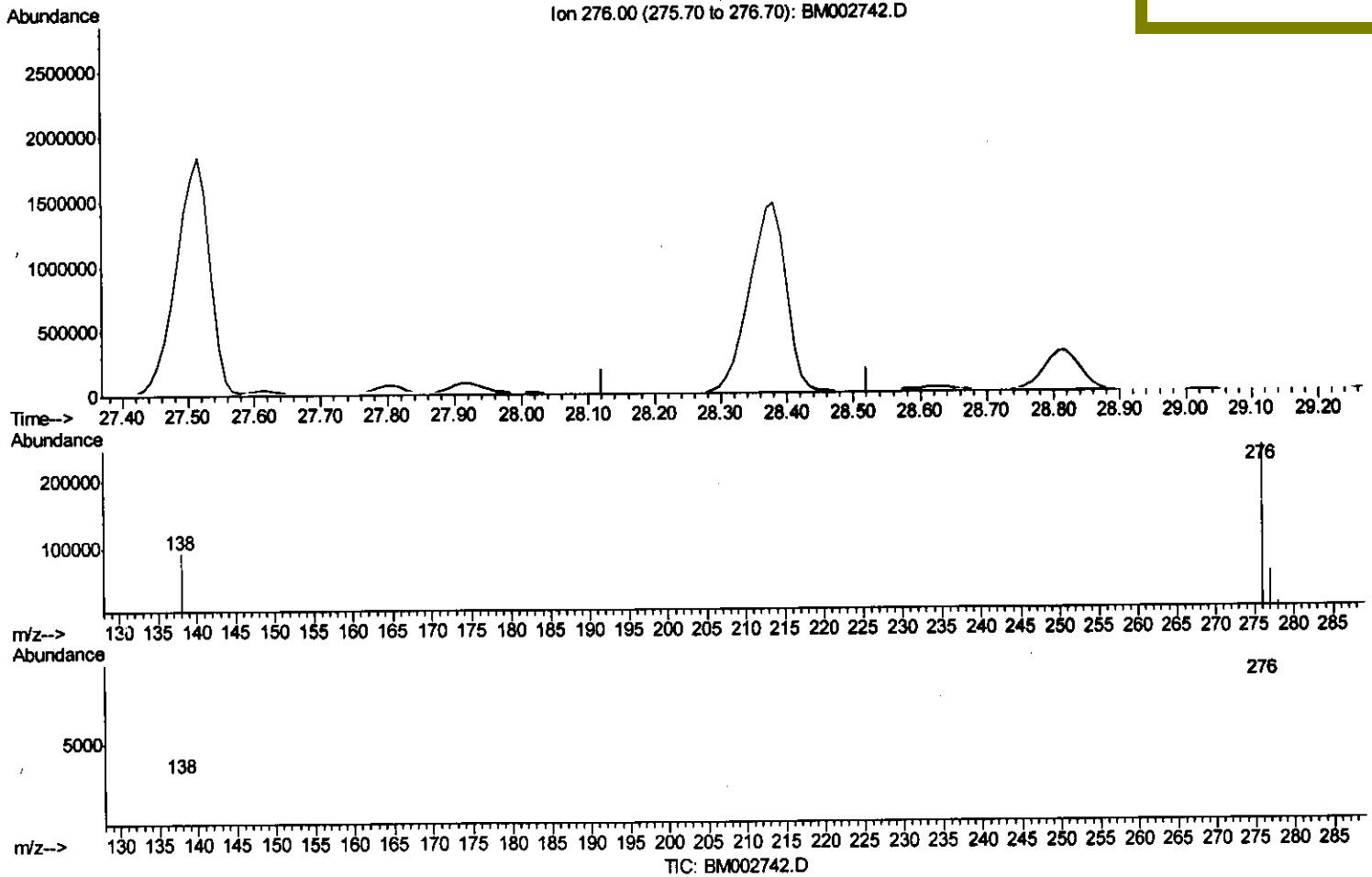
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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(28) Benzo(g,h,i)perylene

28.319min (-28.319) 0.00ng/ul

response 0

Ion	Exp%	Act%
276.00	100	0.00
277.00	26.60	0.00#
138.00	31.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

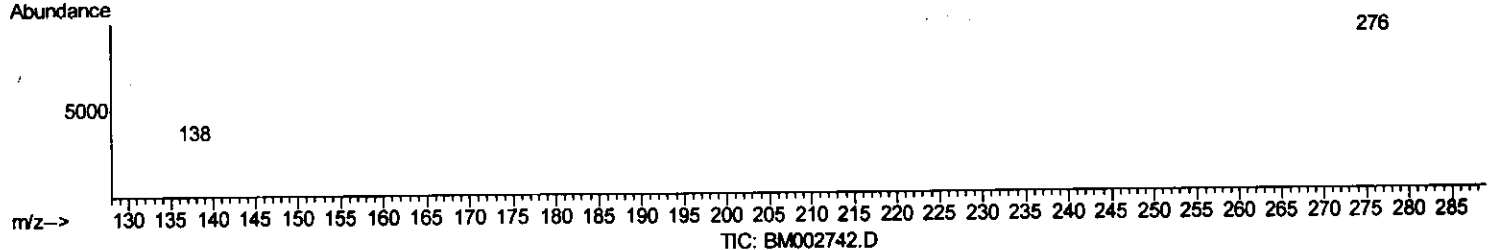
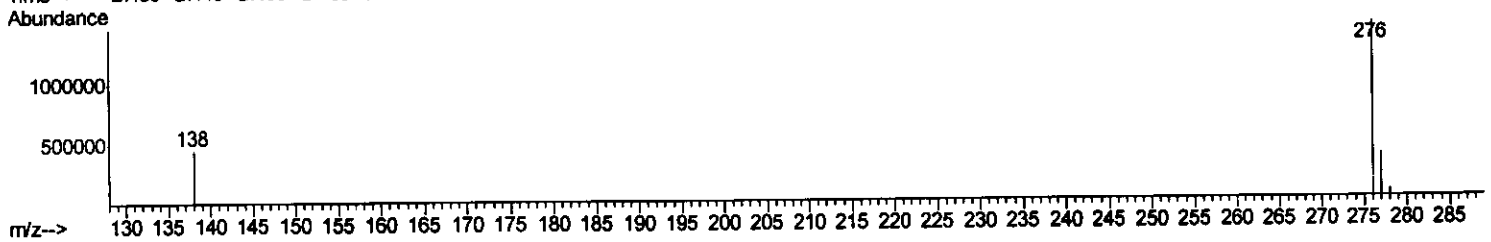
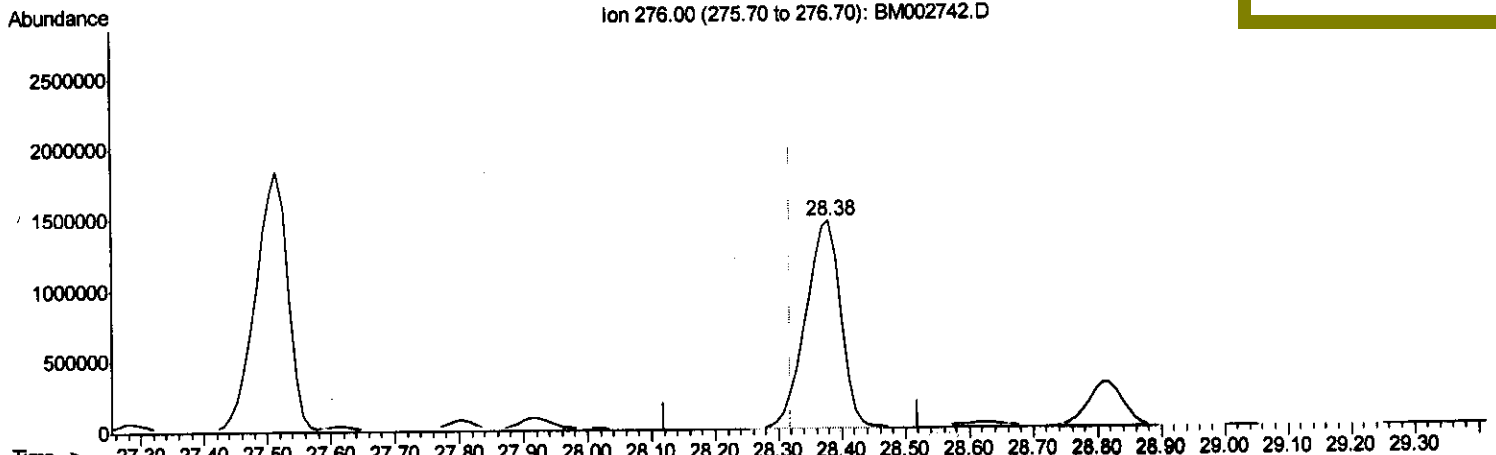
Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:30:28 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:43:26 PM



(28) Benzo(g,h,i)perylene

28.380min (+0.061) 31.77ng/ul m

response 5664547

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	25.56
138.00	31.90	30.90
0.00	0.00	0.00

> 0.1 M
 09/2015

Data Path : Z:\HPCHEM1\BNA_M\Data\BM092815\
 Data File : BM002742.D
 Acq On : 28 Sep 2015 20:17
 Operator : UM/IZ
 Sample : G3798-23
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G75

Quant Time: Sep 29 07:32:46 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 02:52:19 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:43:26 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.75	152	9320	0.40	ng/ul	0.02
4) Naphthalene-d8	11.60	136	36638	0.40	ng/ul	0.00
8) Acenaphthene-d10	15.33	164	20864	0.40	ng/ul	0.00
12) Phenanthrene-d10	18.05	188	41138	0.40	ng/ul	0.02
18) Chrysene-d12	22.14	240	54042	0.40	ng/ul	0.00
22) Perylene-d12	24.74	264	56793m	0.40	ng/ul	0.00

> U.M
 09/30/15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,4-Dioxane-d8	3.80	96	12791	1.33	ng/uL	0.00
6) 2-Methylnaphthalene-d10	13.13	152	5101m	0.10	ng/ul	0.00
16) Fluoranthene-d10	20.01	212	8399	0.08	ng/ul	0.00

> U.M
 09/30/15

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	11.65	128	84920	0.86	ng/ul	98
7) 2-Methylnaphthalene	13.20	142	49612	0.78	ng/ul	99
9) Acenaphthylene	15.06	152	255974	2.38	ng/ul	97
10) Acenaphthene	15.38	153	610664	7.78	ng/ul	97
11) Fluorene	16.36	166	696543	7.78	ng/ul	91
14) Phenanthrene	18.08	178	12234773	91.40	ng/ul	95
15) Anthracene	18.17	178	2442704	19.74	ng/ul	97
17) Fluoranthene	20.05	202	17829999	122.47	ng/ul	71
19) Pyrene	20.41	202	15950476	75.73	ng/ul#	78
20) Benzo(a)anthracene	22.12	228	8713922	48.25	ng/ul	96
21) Chrysene	22.17	228	9221790	53.35	ng/ul	94
23) Benzo(b)fluoranthene	23.95	252	13470127m	65.79	ng/ul	
24) Benzo(k)fluoranthene	23.99	252	3414674m	18.00	ng/ul	
25) Benzo(a)pyrene	24.64	252	8022313m	42.55	ng/ul	
26) Indeno(1,2,3-cd)pyrene	27.51	276	6596071m	31.37	ng/ul	
27) Dibenzo(a,h)anthracene	27.50	278	1619850m	9.39	ng/ul	
28) Benzo(g,h,i)perylene	28.38	276	5664547m	31.77	ng/ul	

> U.M
 09/30/15

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