

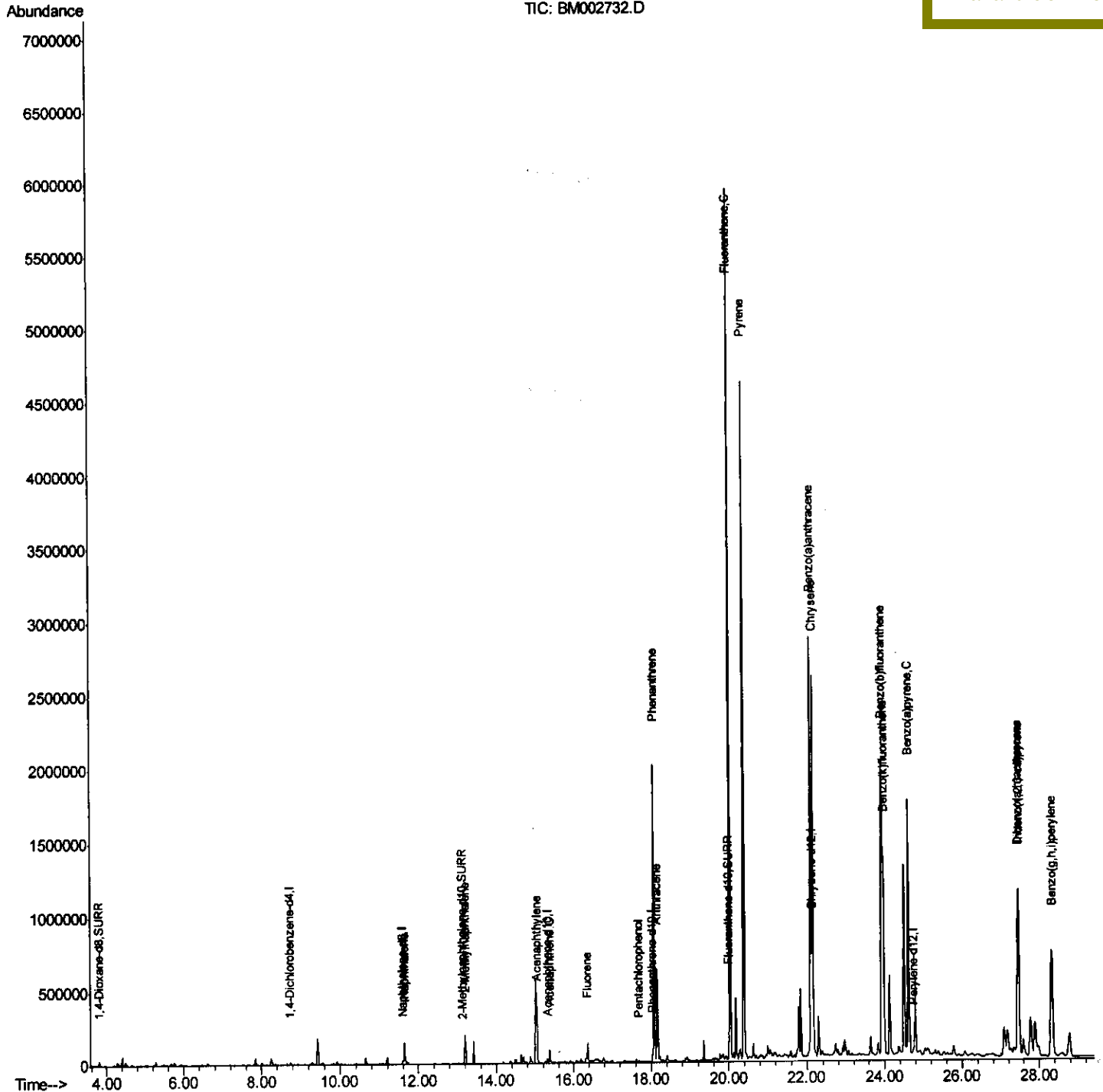
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
Data File : BM002732.D
Acq On : 28 Sep 2015 13:35
Operator : UM/IZ
Sample : G3798-11
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9G65

Quant Time: Sep 29 03:44:27 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 00:32:23 2015
Response via : Initial Calibration

Manual Integrations
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9/29/2015 3:42:18 PM



Quantitation Report (Qedit)

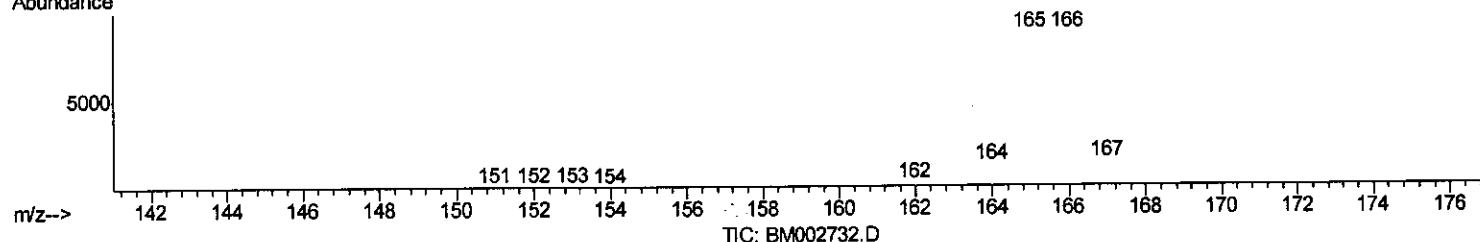
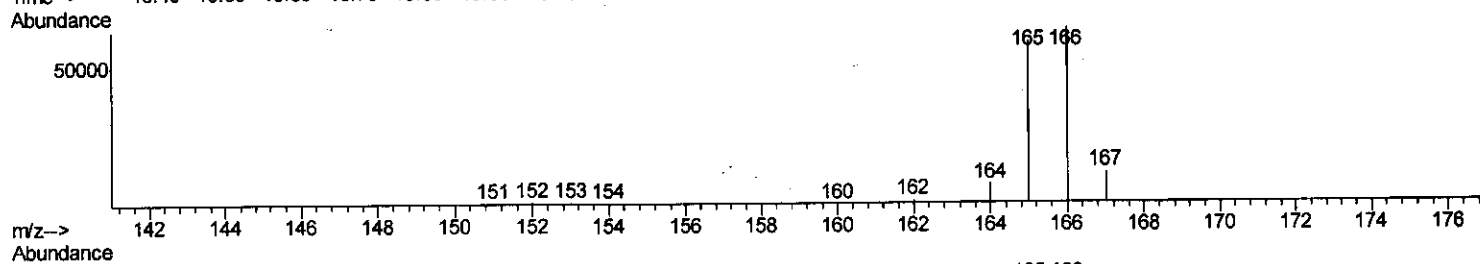
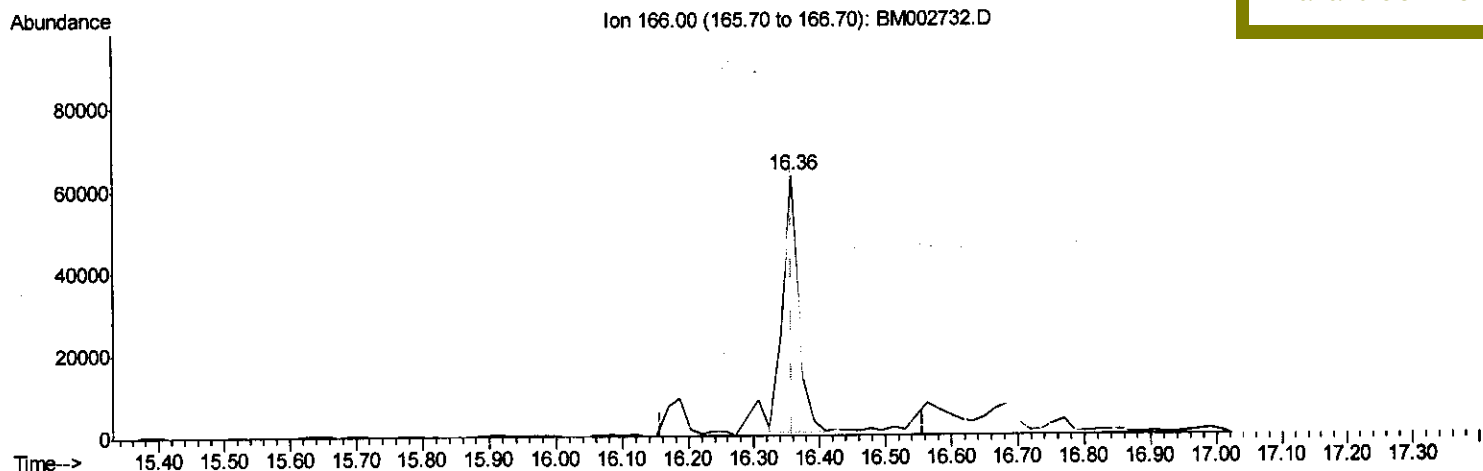
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 01:29:44 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
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TIC: BM002732.D

(11) Fluorene

16.358min (-0.000) 1.07ng/ul m

response 104982

Ion	Exp%	Act%
166.00	100	100
165.00	109.50	92.75
167.00	13.90	17.68#
0.00	0.00	0.00

Quantitation Report (Qedit)

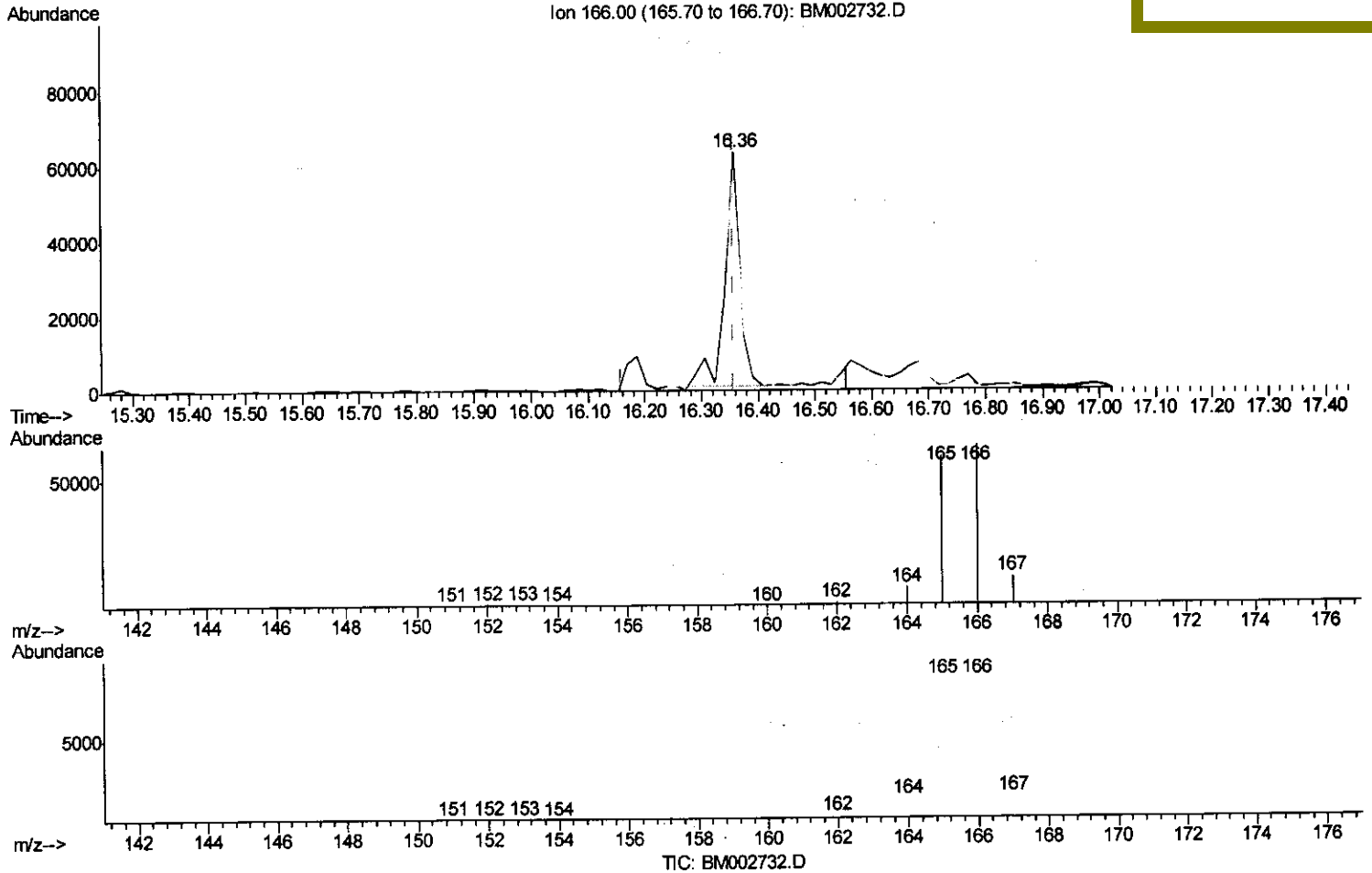
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 01:29:44 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:42:18 PM



(11) Fluorene

16.358min (-0.000) 1.18ng/ul

response 116180

Ion	Exp%	Act%
166.00	100	100
165.00	109.50	92.75
167.00	13.90	17.68#
0.00	0.00	0.00

> 0.1m
 09/30/15

Quantitation Report (Qedit)

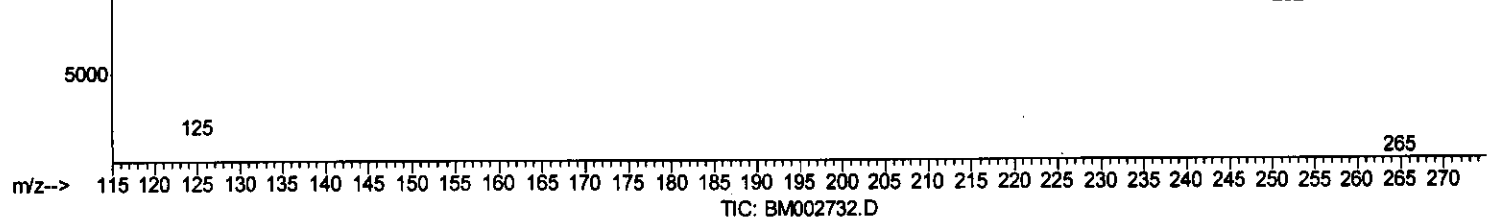
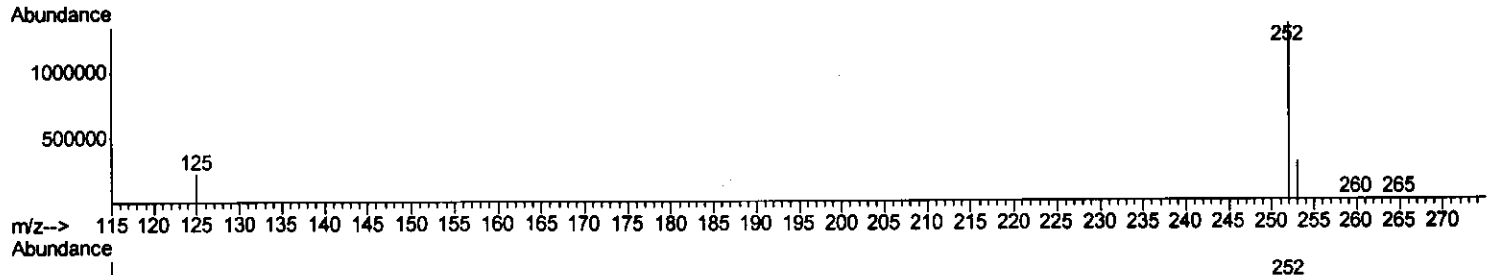
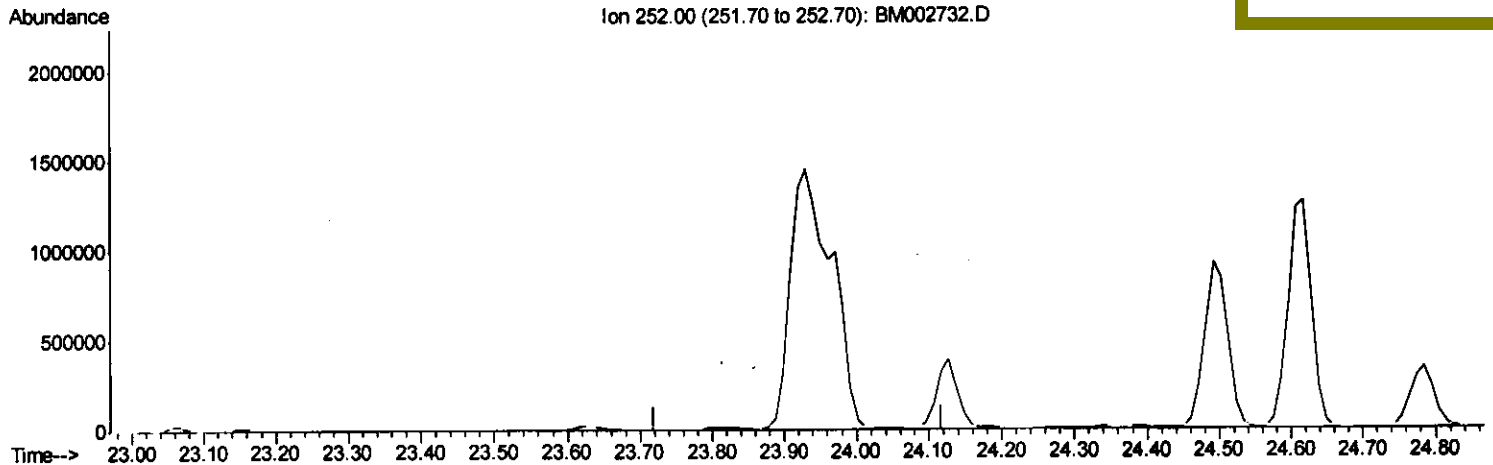
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 01:29:44 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
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(23) Benzo(b)fluoranthene

23.919min (-23.919) 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)

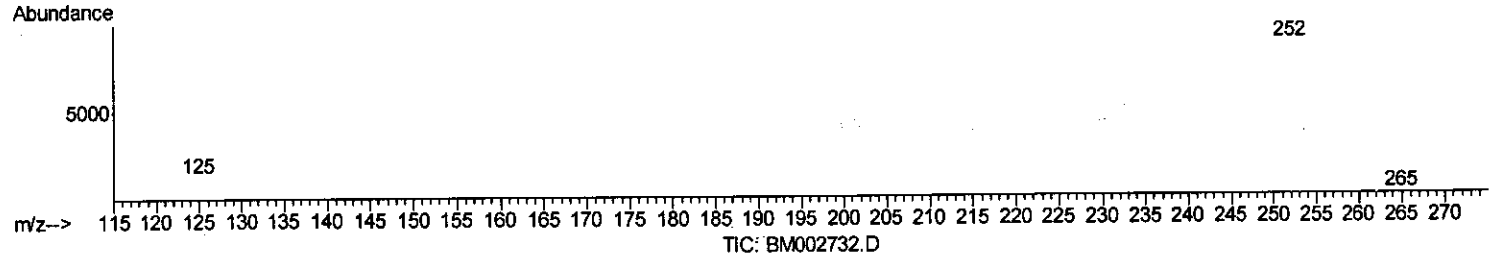
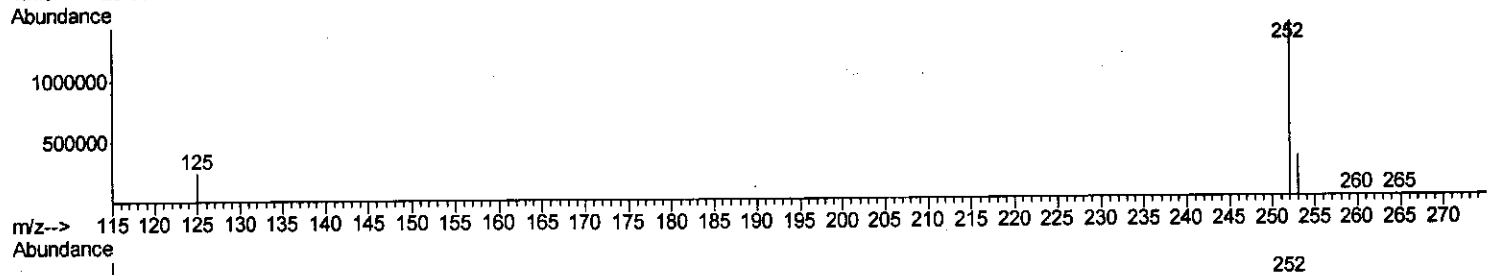
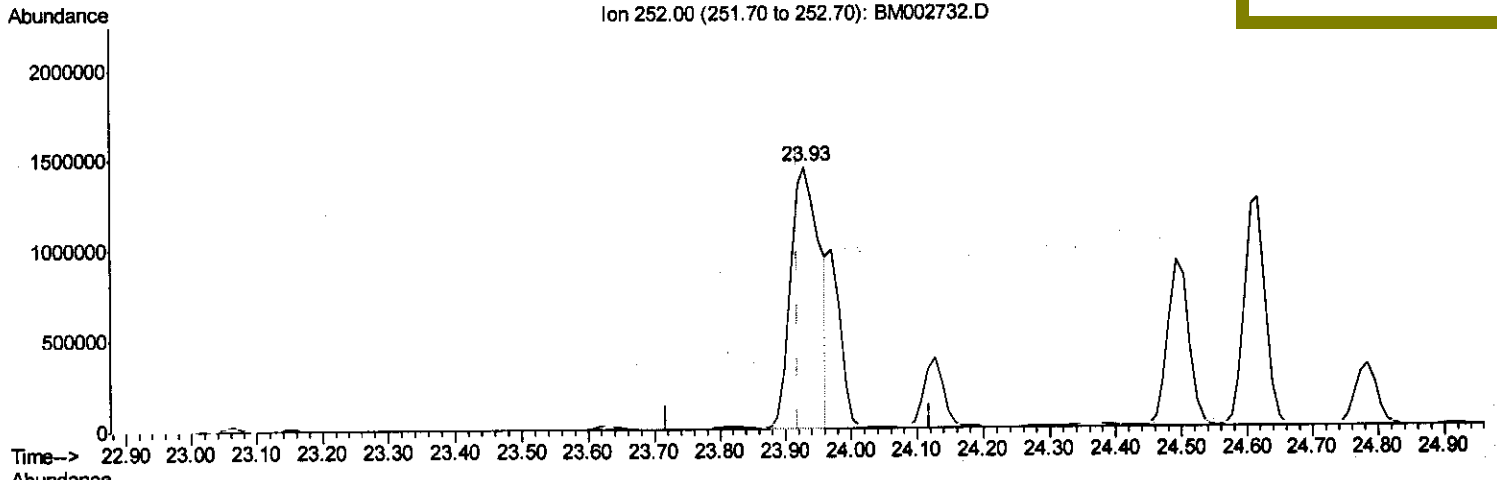
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 01:29:44 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
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MMDadoda
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(23) Benzo(b)fluoranthene

23.929min (+0.010) 31.26ng/ul m

response 4554666

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	23.13
125.00	18.30	16.40
0.00	0.00	0.00

> U.M
 09/30/15

Quantitation Report (Qedit)

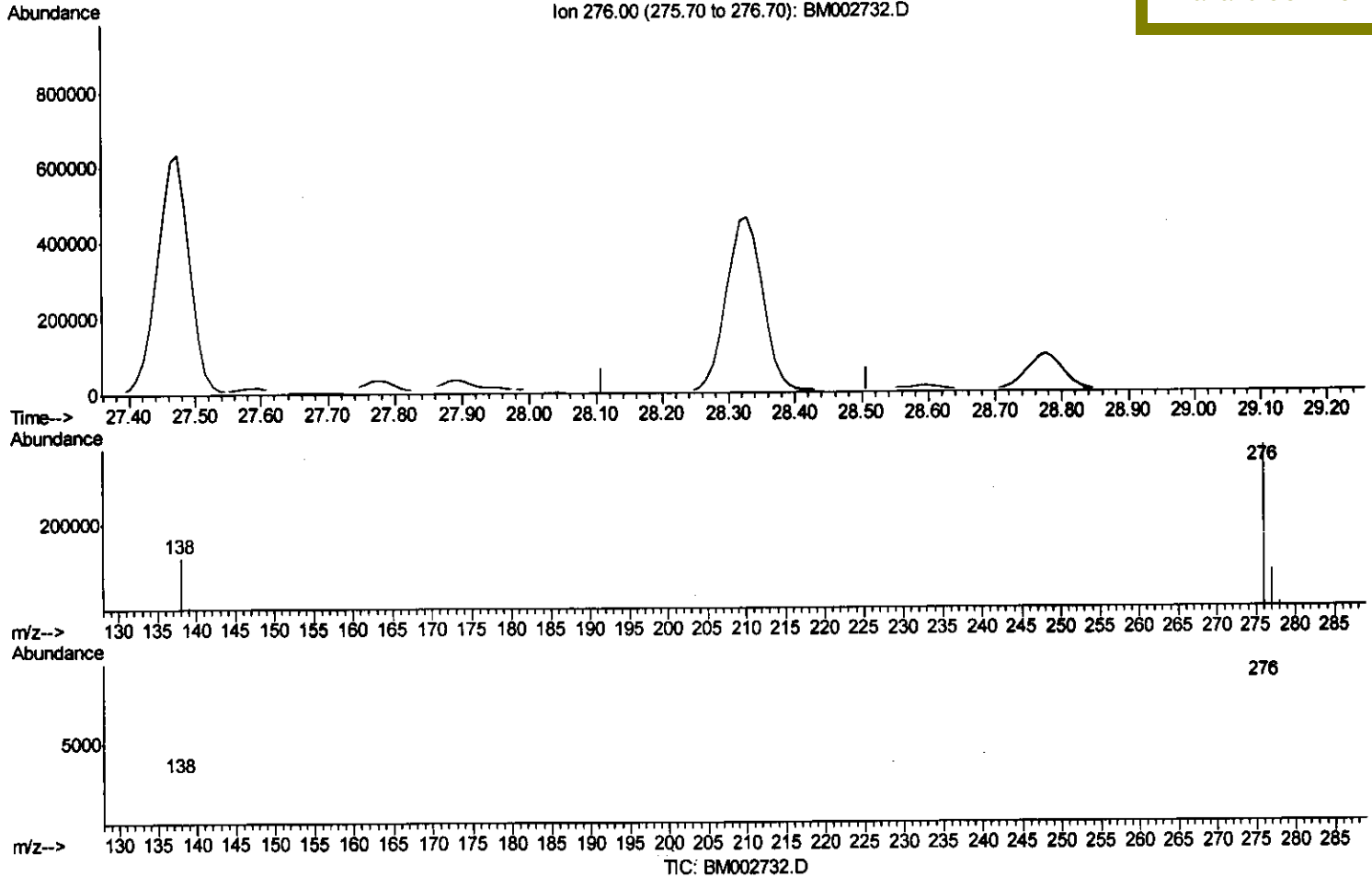
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 01:29:44 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:42:18 PM



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

28.307min (-28.307) 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)

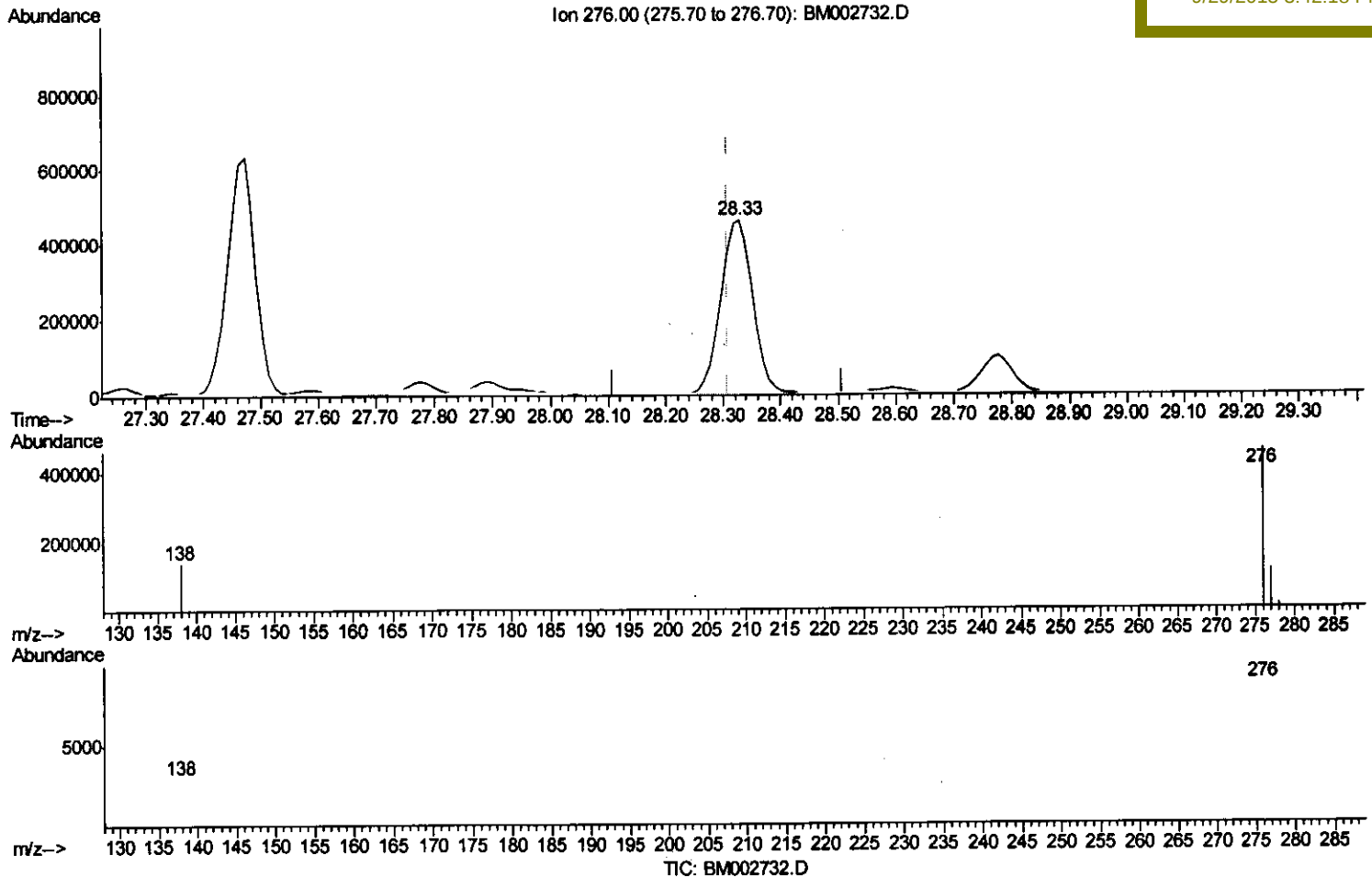
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 01:29:44 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:42:18 PM



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

28.328min (+0.021) 14.19ng/ul m

response 1799897

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	24.57
138.00	31.90	30.23
0.00	0.00	0.00

70.0
 09/30/15

Quantitation Report (Qedit)

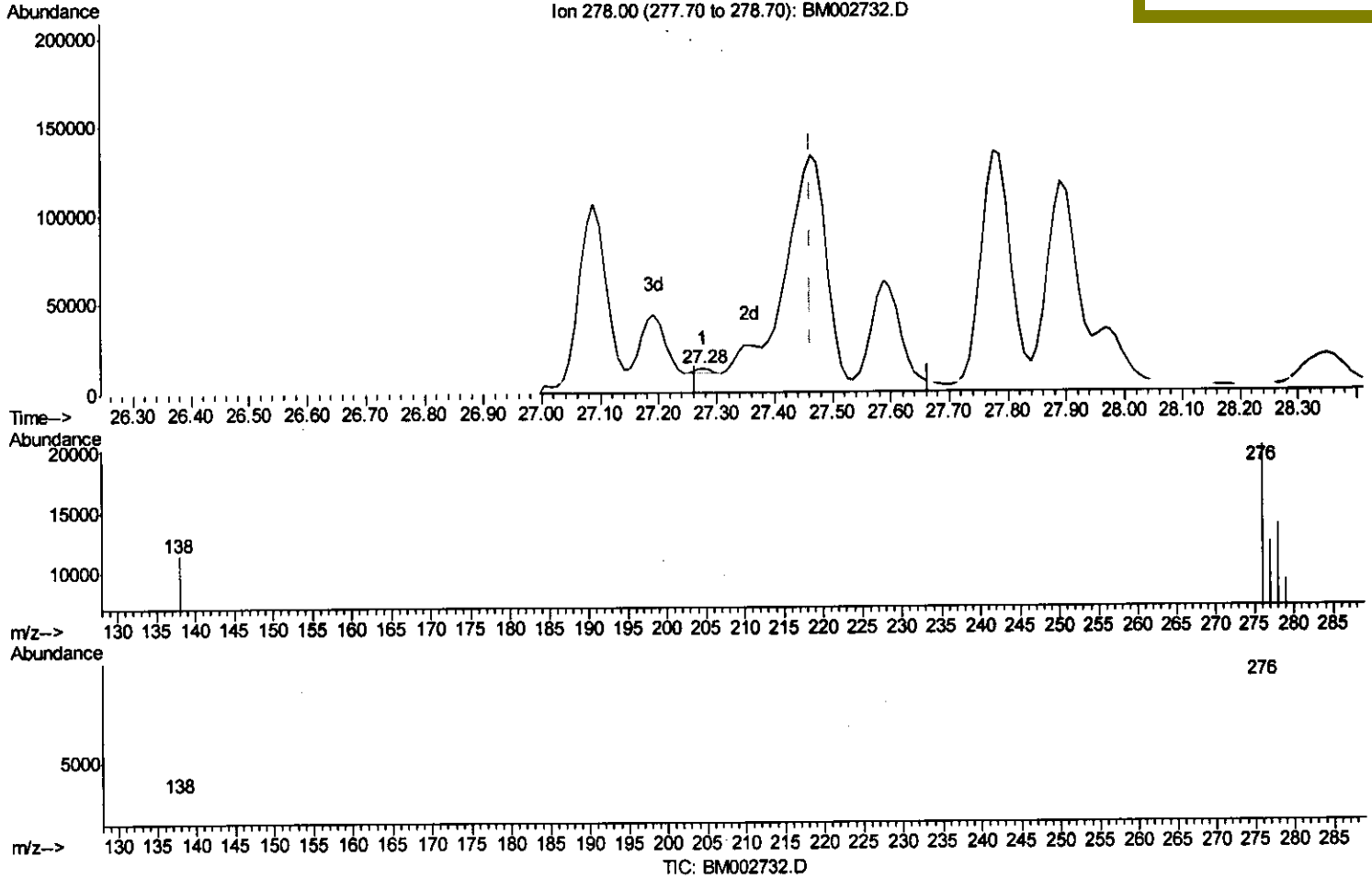
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

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

27.275min (-0.188) 0.05ng/ul

response 5679

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	51.46#
279.00	27.40	66.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

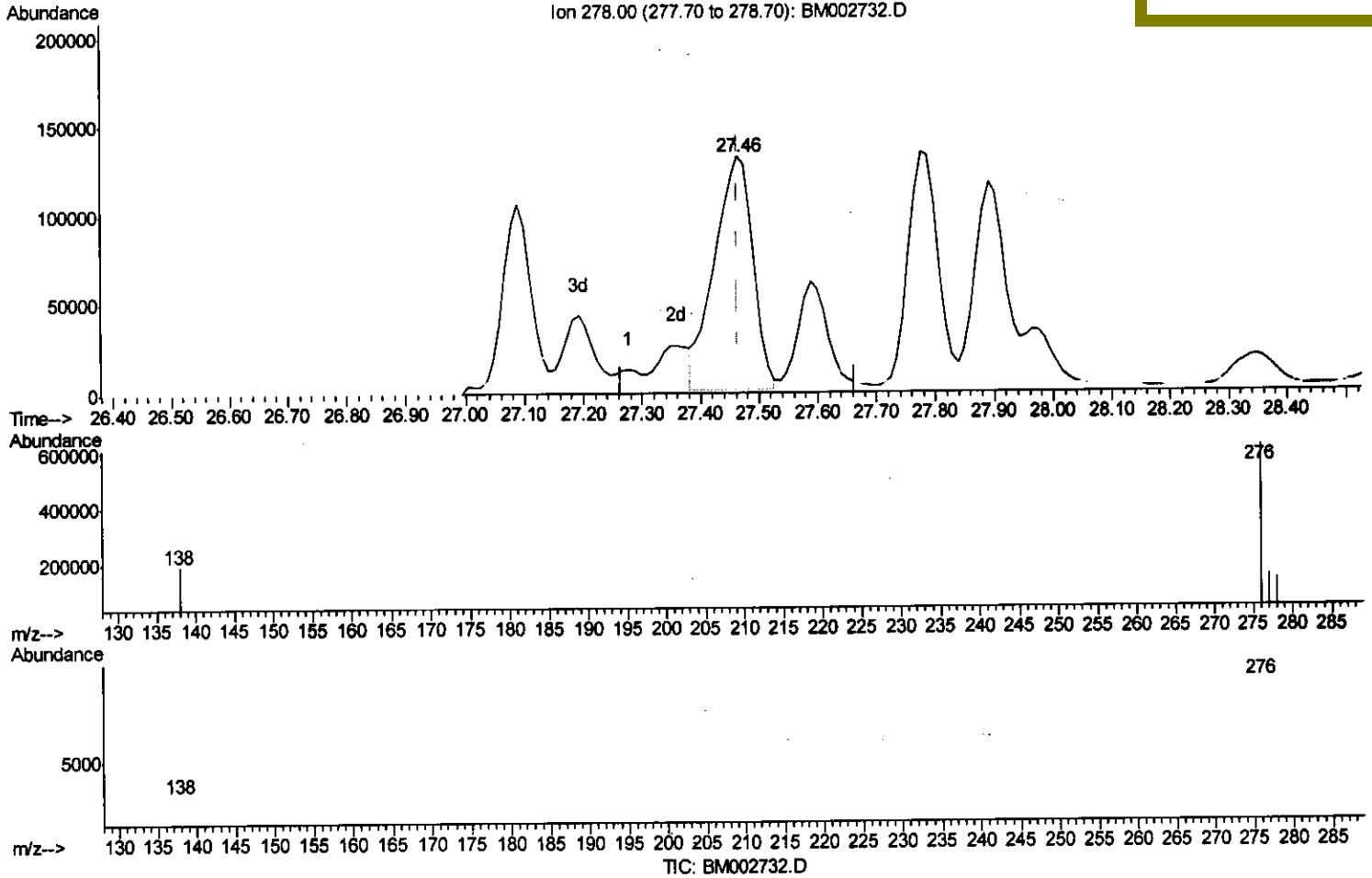
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 03:34:57 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
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(27) Dibenzo(a,h)anthracene

27.463min (-0.000) 4.90ng/ul m

response 601331

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	27.06
279.00	27.40	27.51
0.00	0.00	0.00

> U.M
 09/30/15

Quantitation Report (Qedit)

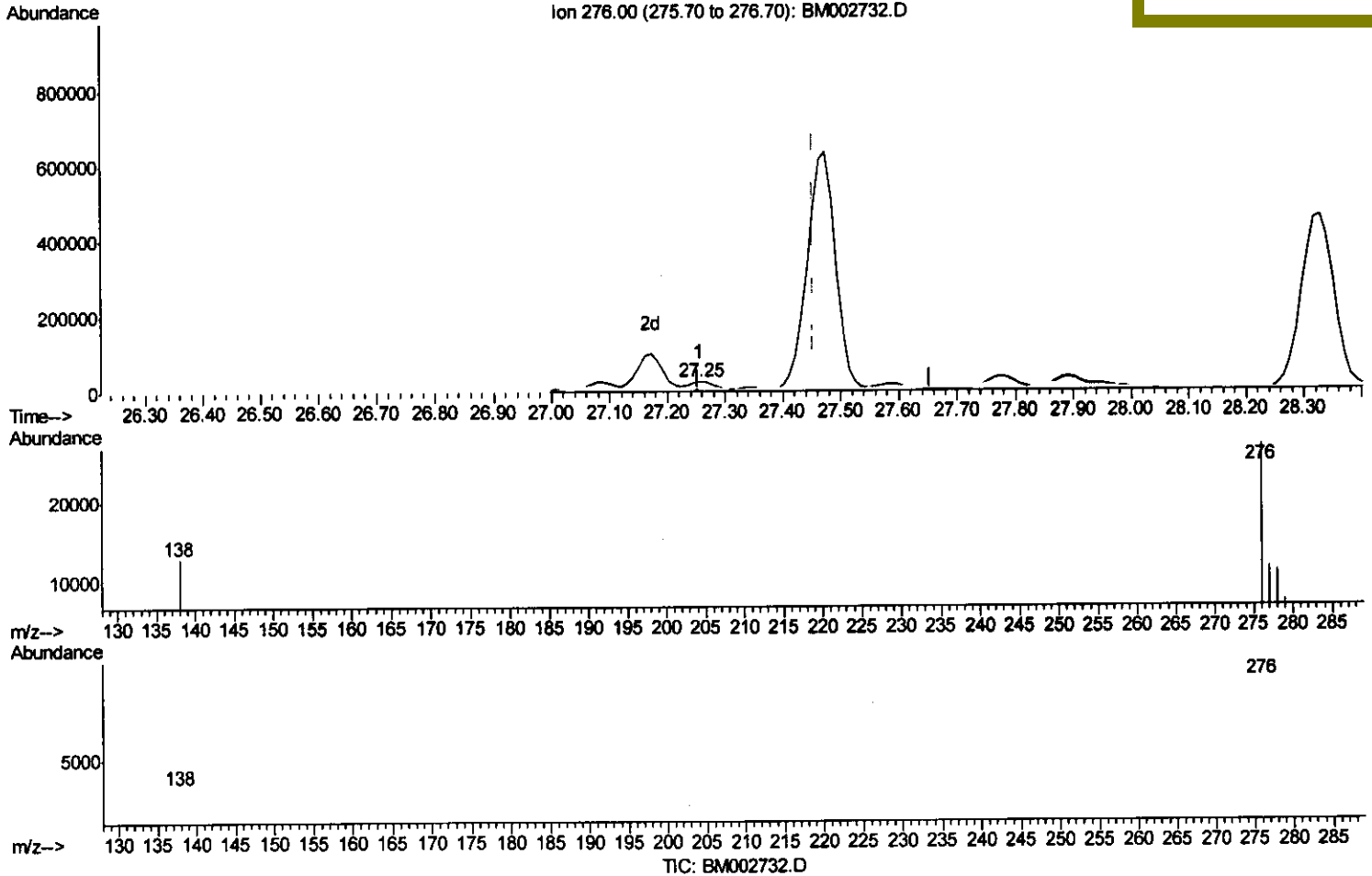
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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

27.254min (-0.198) 0.36ng/ul

response 53356

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	23.69#
277.00	24.10	36.47#
0.00	0.00	0.00

Quantitation Report (Qedit)

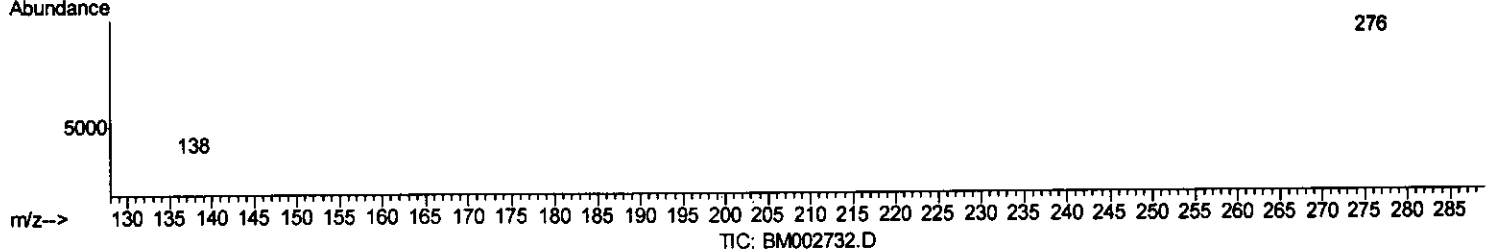
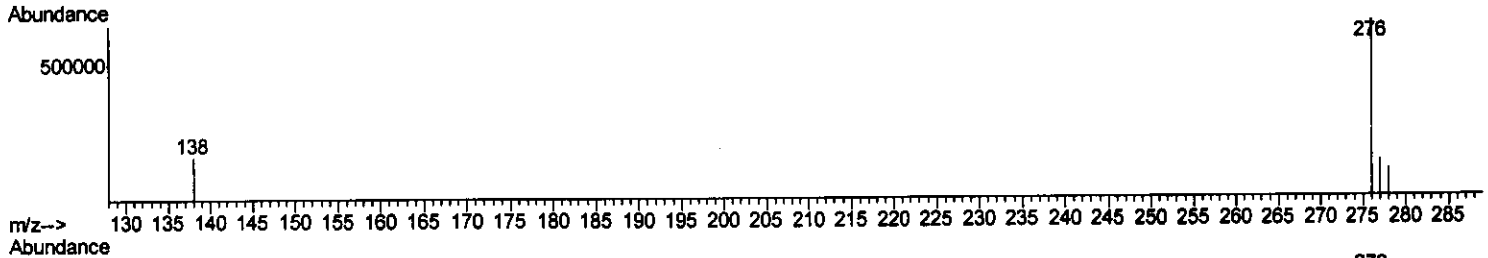
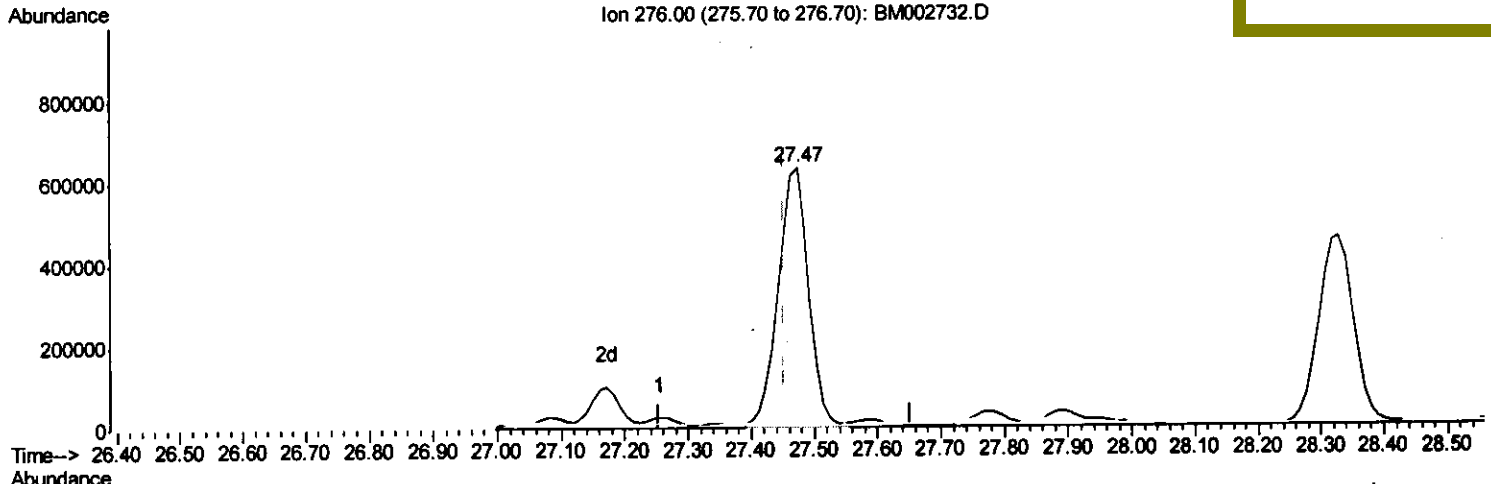
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

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

27.473min (+0.021) 14.50ng/ul m

response 2169090

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	0.58#
277.00	24.10	0.90#
0.00	0.00	0.00

> U.M
 09/30/15

Quantitation Report (Qedit)

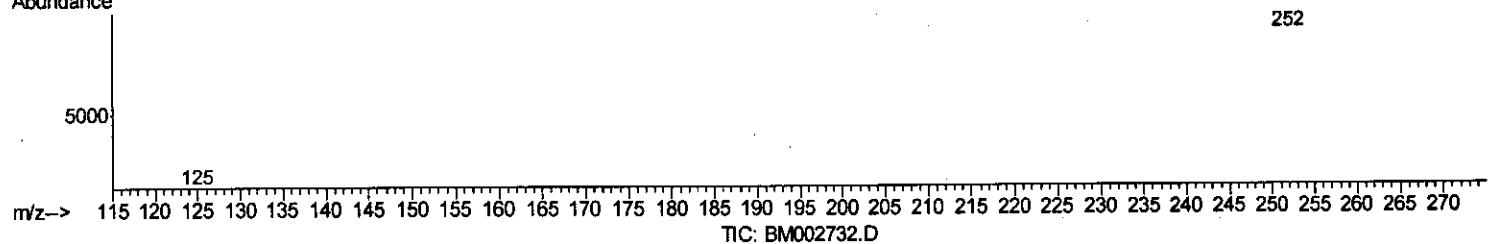
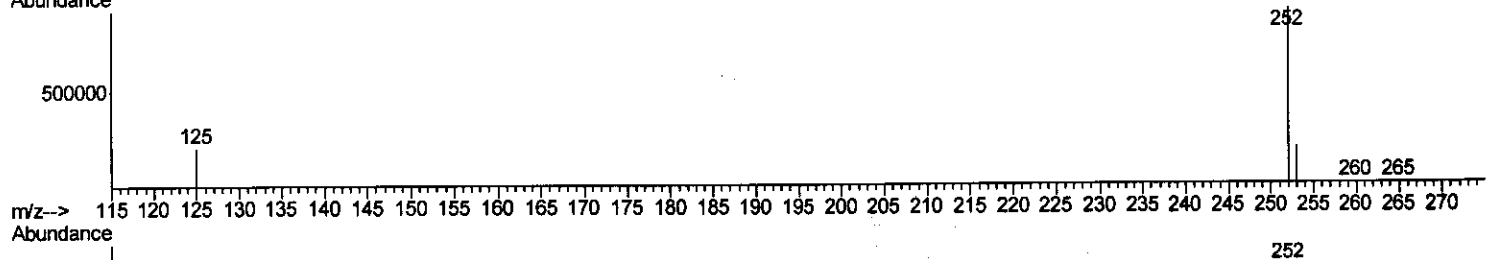
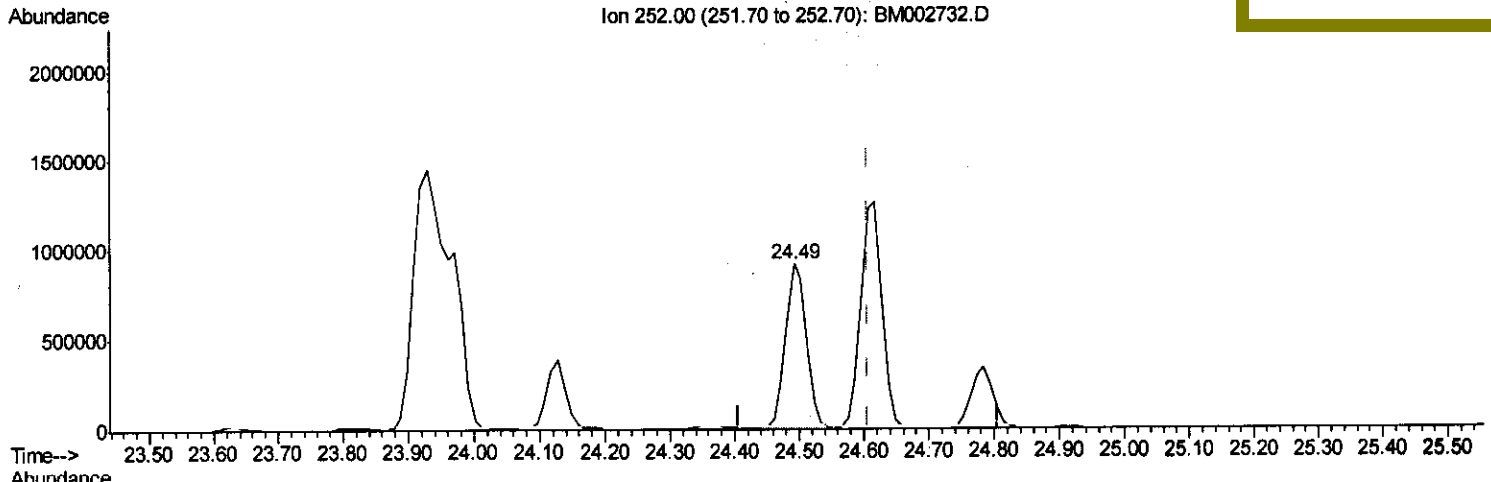
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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(25) Benzo(a)pyrene (C)

24.492min (-0.115) 15.20ng/ul

response 2039490

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	21.72#
125.00	18.10	22.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

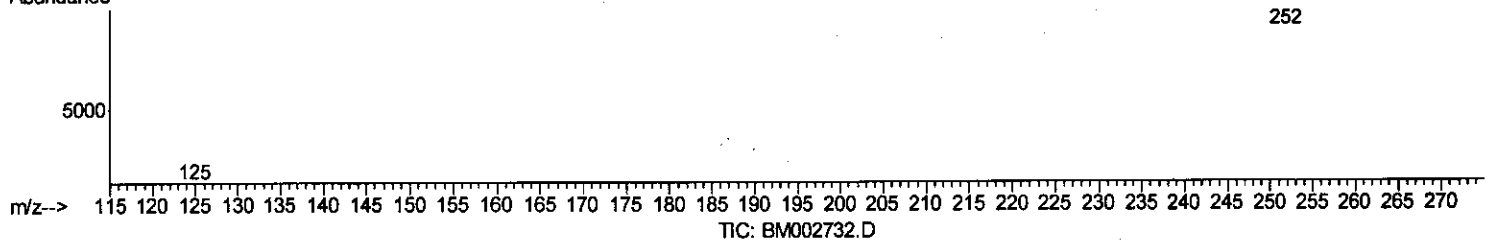
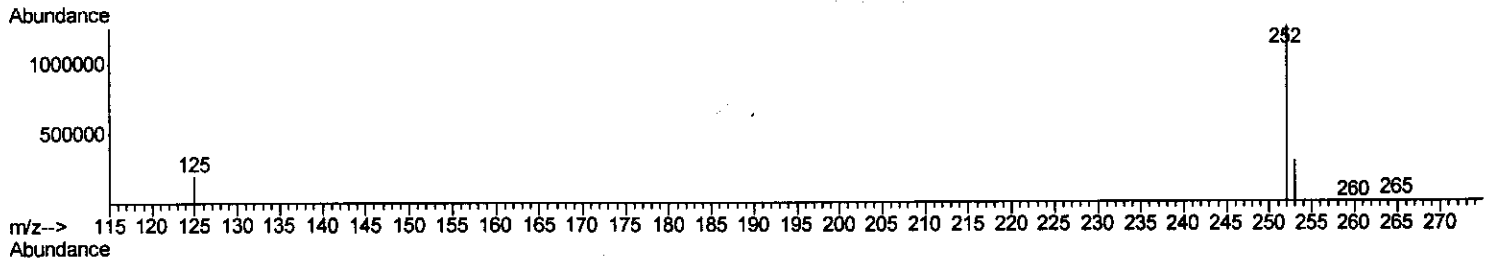
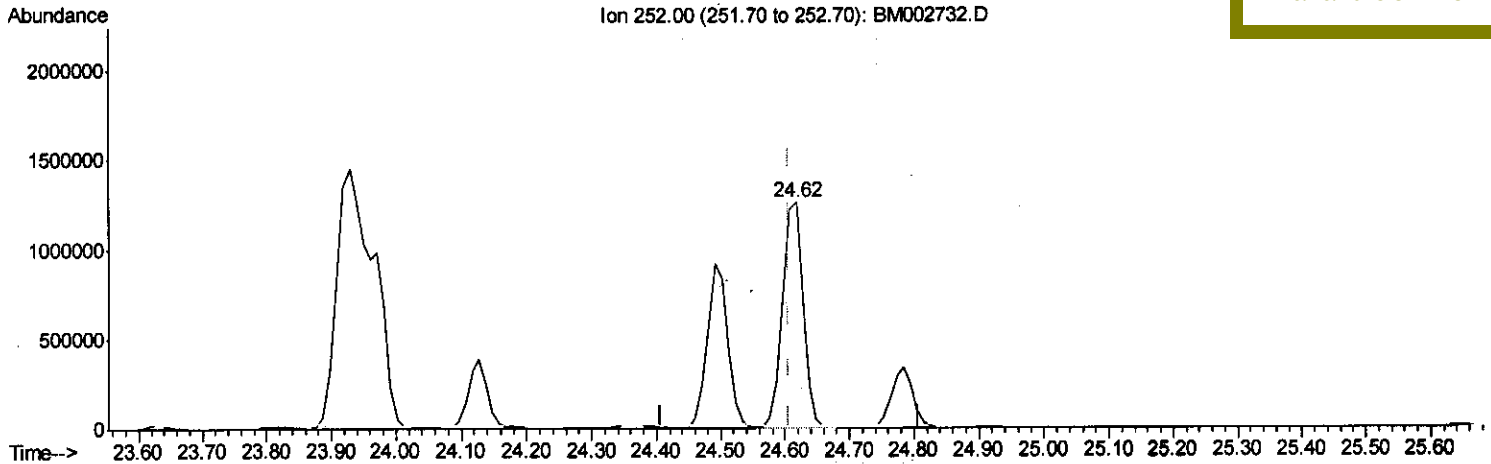
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
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(25) Benzo(a)pyrene (C)

24.617min (+0.010) 21.38ng/ul m

response 2867730

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	23.51
125.00	18.10	15.83
0.00	0.00	0.00

> U.M
 09/30/15

Quantitation Report (Qedit)

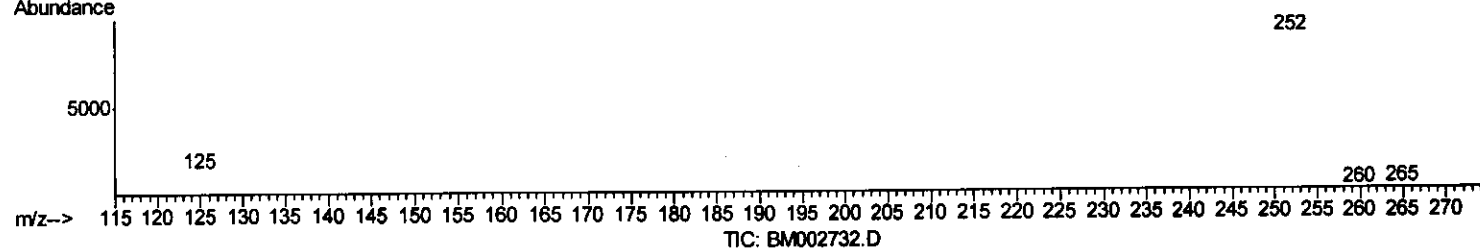
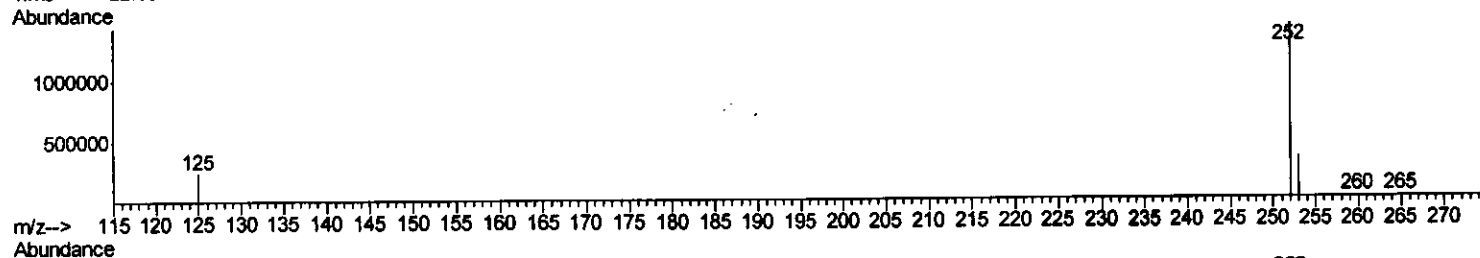
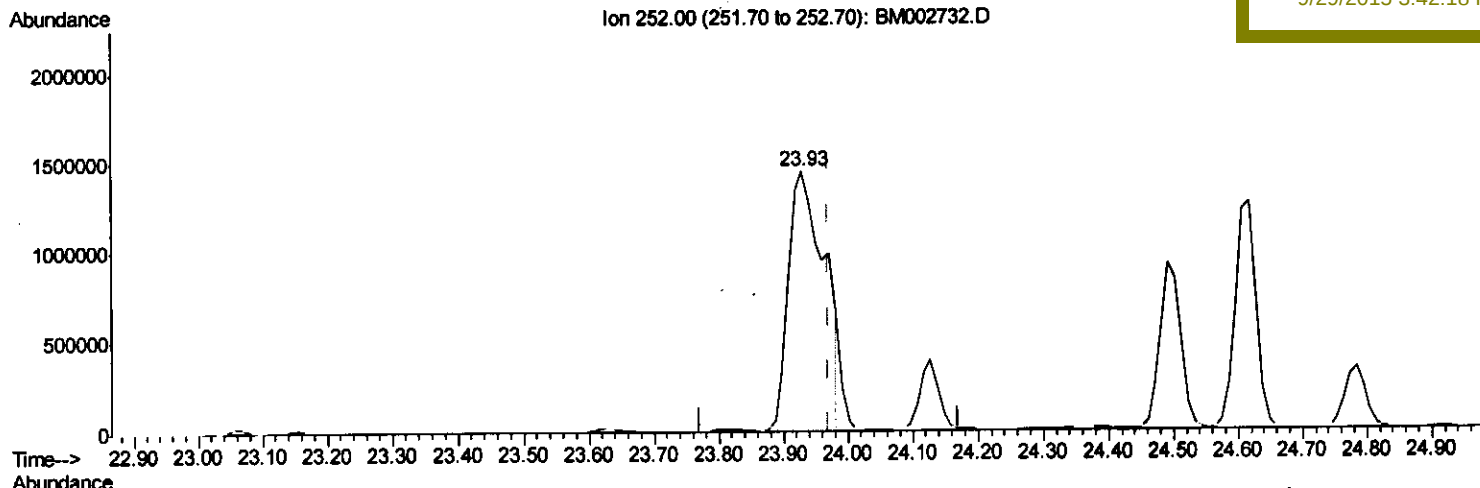
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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(24) Benzo(k)fluoranthene

23.929min (-0.042) 41.26ng/ul

response 5568417

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	23.13
125.00	15.30	16.40
0.00	0.00	0.00

Quantitation Report (Qedit)

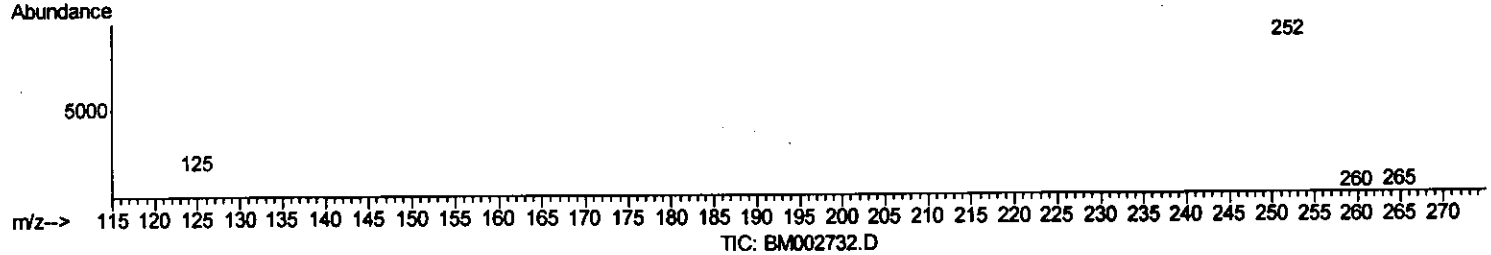
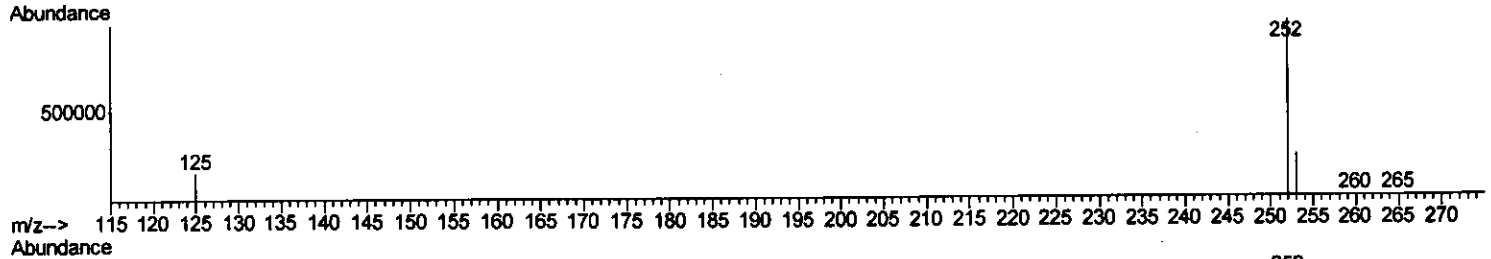
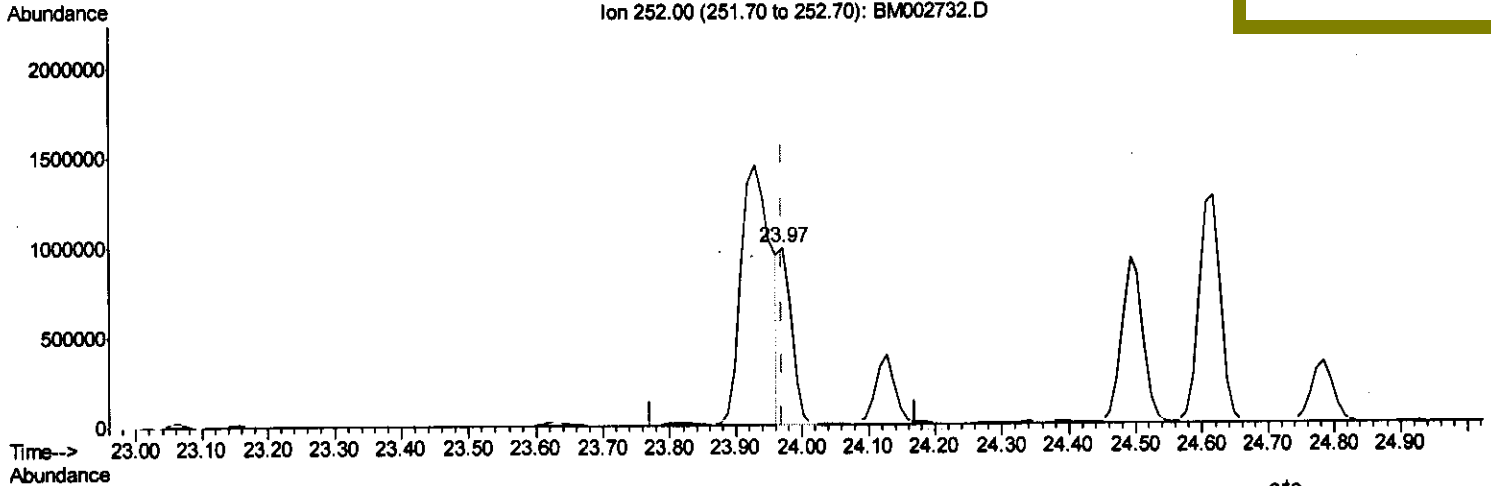
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 02:27:35 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
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(24) Benzo(k)fluoranthene

23.971min (-0.000) 9.19ng/ul m

response 1240390

20.1m
09/30/15

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	24.00
125.00	15.30	15.68
0.00	0.00	0.00

Quantitation Report (Qedit)

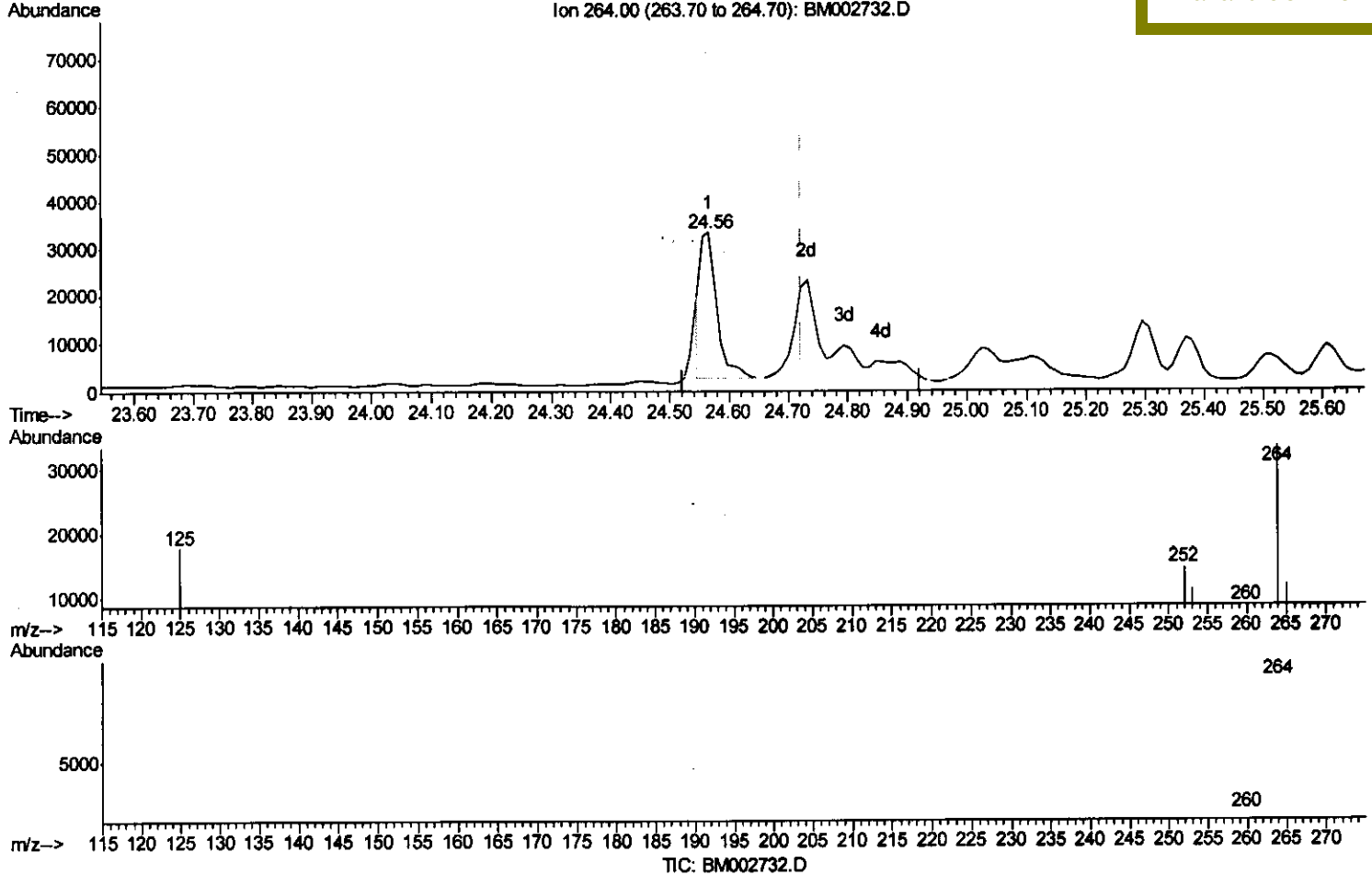
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 00:33:13 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
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(22) Perylene-d12 (I)

24.565min (-0.156) 0.40ng/ul

response 59192

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	26.08
265.00	34.70	35.56
0.00	0.00	0.00

Quantitation Report (Qedit)

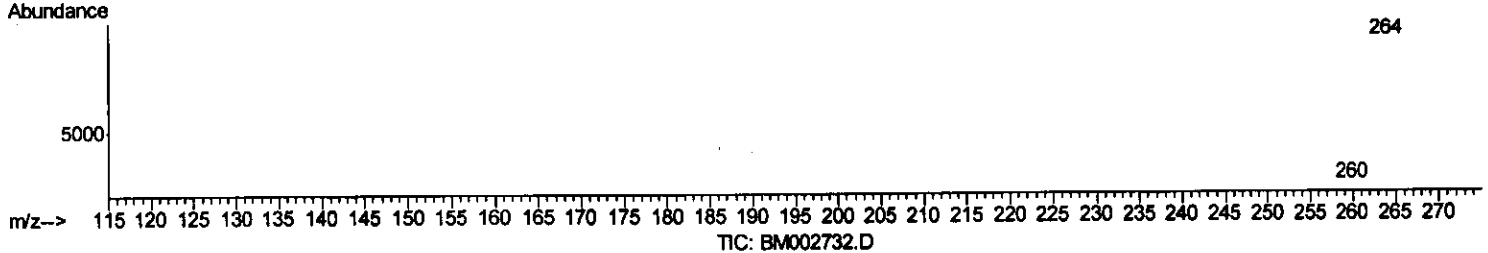
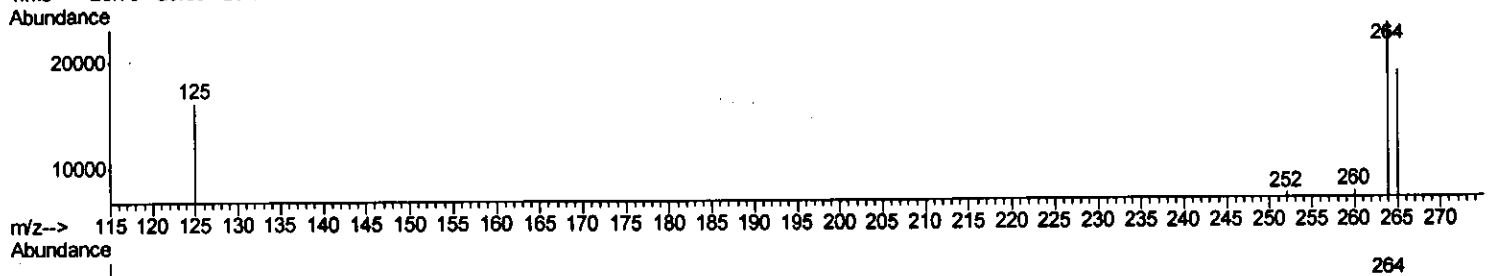
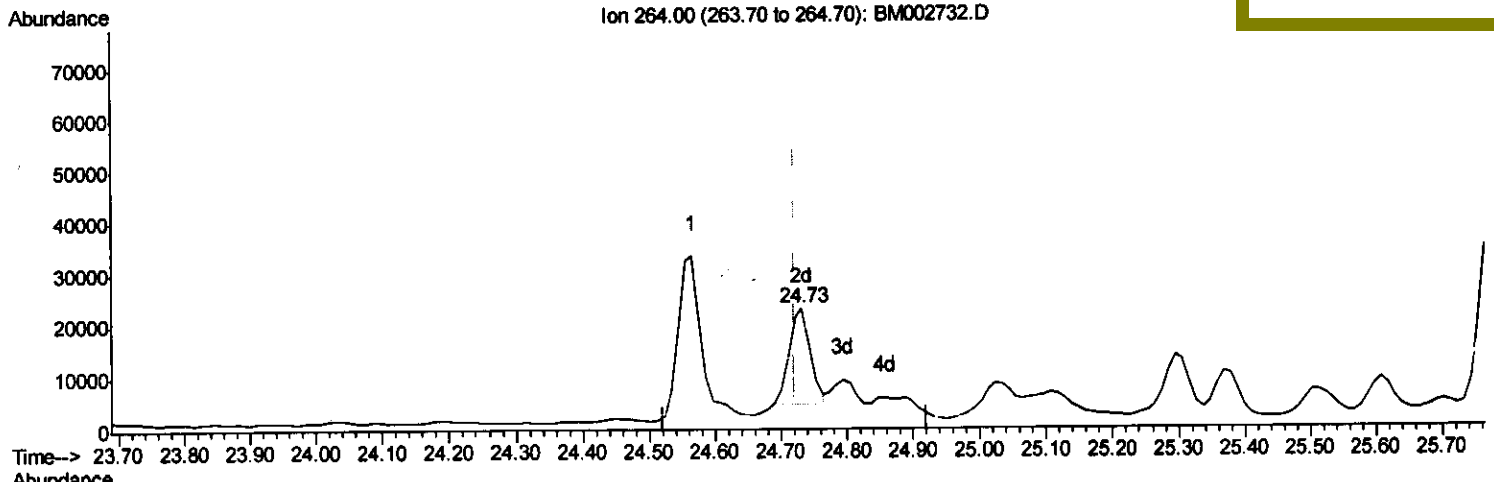
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 00:33:13 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 9/29/2015 3:42:18 PM



(22) Perylene-d12 (I)

24.732min (+0.010) 0.40ng/ul m

response 40410

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	31.87
265.00	34.70	80.20#
0.00	0.00	0.00

> U.M
09/30/15

Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\
 Data File : BM002732.D
 Acq On : 28 Sep 2015 13:35
 Operator : UM/IZ
 Sample : G3798-11
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9G65

Quant Time: Sep 29 03:44:27 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 00:32:23 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/29/2015 3:42:18 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.74	152	10696	0.40	ng/ul	0.00
4) Naphthalene-d8	11.60	136	41503	0.40	ng/ul	0.01
8) Acenaphthene-d10	15.33	164	22859	0.40	ng/ul	0.00
12) Phenanthrene-d10	18.03	188	46904	0.40	ng/ul	0.00
18) Chrysene-d12	22.13	240	50831	0.40	ng/ul	0.00
22) Perylene-d12	24.73	264	40410m	0.40	ng/ul	0.01

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,4-Dioxane-d8	3.80	96	24956	2.26	ng/uL	0.00
6) 2-Methylnaphthalene-d10	13.13	152	10113	0.17	ng/ul	0.00
16) Fluoranthene-d10	20.01	212	19698	0.17	ng/ul	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Naphthalene	11.65	128	241186	2.14	ng/ul	97
7) 2-Methylnaphthalene	13.20	142	164532	2.27	ng/ul	99
9) Acenaphthylene	15.06	152	397082	3.37	ng/ul#	94
10) Acenaphthene	15.38	153	57596	0.67	ng/ul	92
11) Fluorene	16.36	166	104982m	1.07	ng/ul	92
13) Pentachlorophenol	17.69	266	5265	0.58	ng/ul	96
14) Phenanthrene	18.08	178	2623921	17.19	ng/ul	95
15) Anthracene	18.16	178	897779	6.36	ng/ul	97
17) Fluoranthene	20.03	202	5489535	33.07	ng/ul	96
19) Pyrene	20.39	202	4981362	25.15	ng/ul	98
20) Benzo(a)anthracene	22.11	228	3174667	18.69	ng/ul	94
21) Chrysene	22.16	228	2824400	17.37	ng/ul	97
23) Benzo(b)fluoranthene	23.93	252	4554666m	31.26	ng/ul	97
24) Benzo(k)fluoranthene	23.97	252	1240390m	9.19	ng/ul	97
25) Benzo(a)pyrene	24.62	252	2867730m	21.38	ng/ul	97
26) Indeno(1,2,3-cd)pyrene	27.47	276	2169090m	14.50	ng/ul	97
27) Dibenzo(a,h)anthracene	27.46	278	601331m	4.90	ng/ul	97
28) Benzo(a,h,i)perylene	28.33	276	1799897m	14.19	ng/ul	97

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