

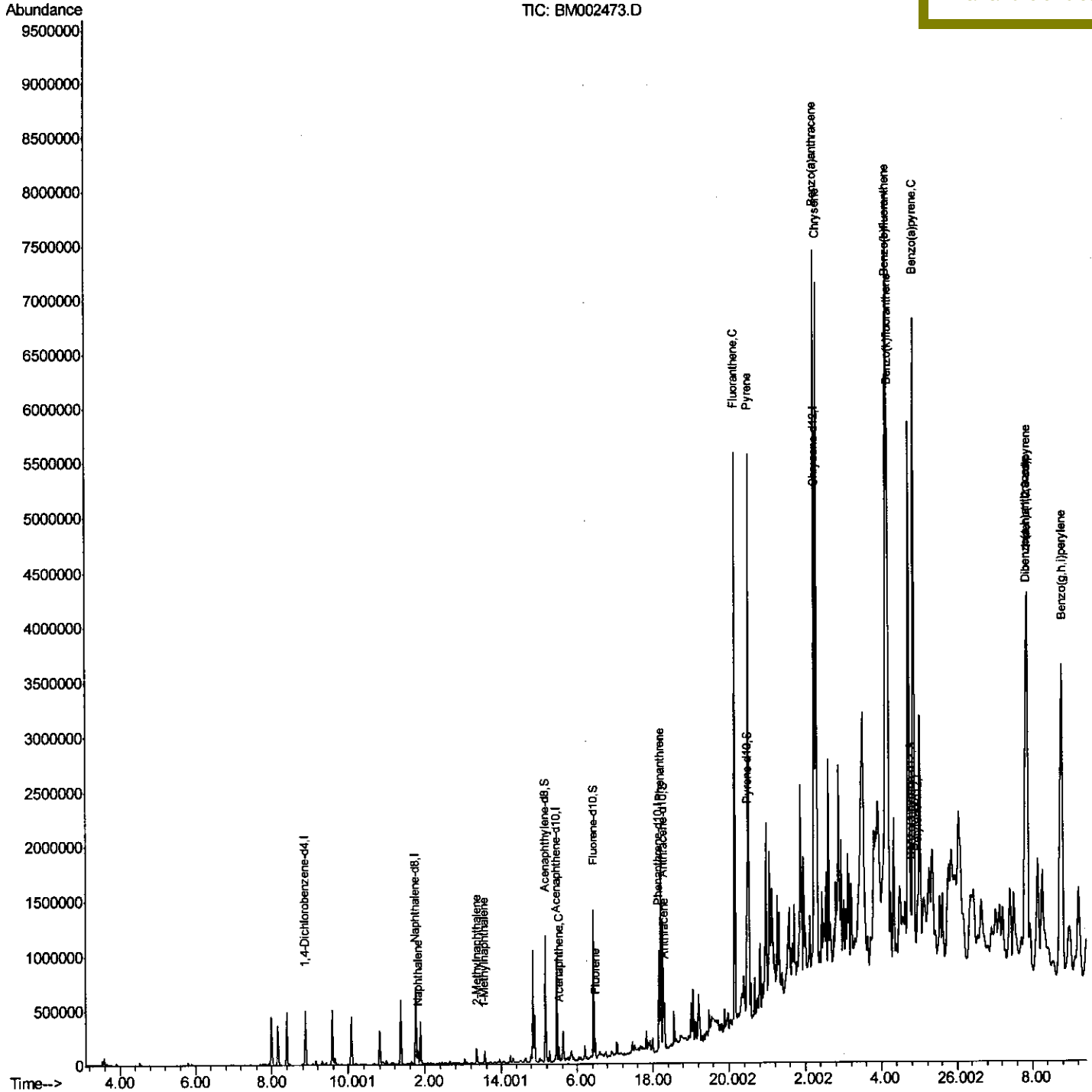
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002473.D
Acq On : 18 Aug 2015 04:31
Operator : UM/IZ
Sample : G3227-23
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE2

Quant Time: Aug 18 07:08:32 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 18 03:02:54 2015
Response via : Initial Calibration

Manual Integrations
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8/18/2015 5:19:33 PM



Quantitation Report (Qedit)

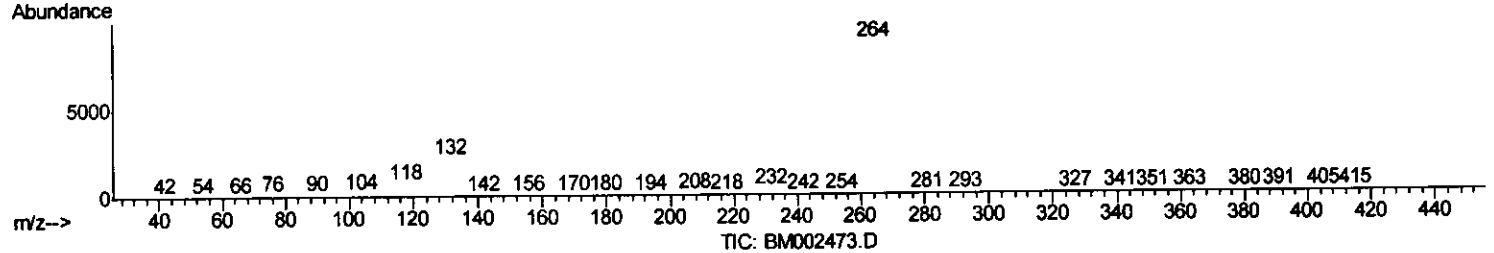
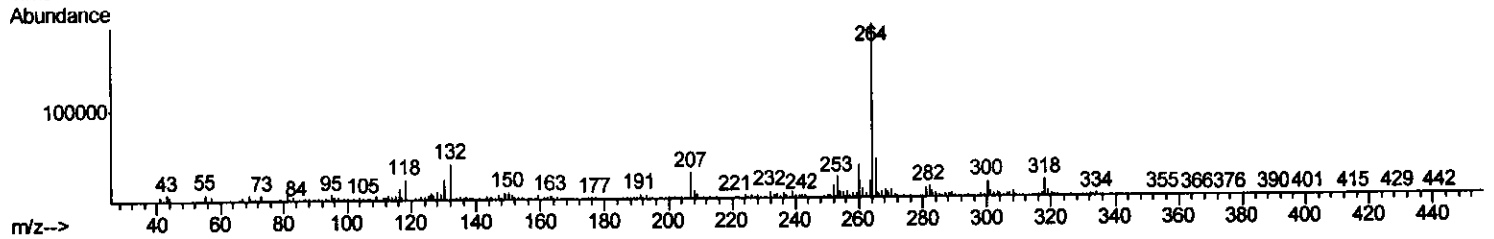
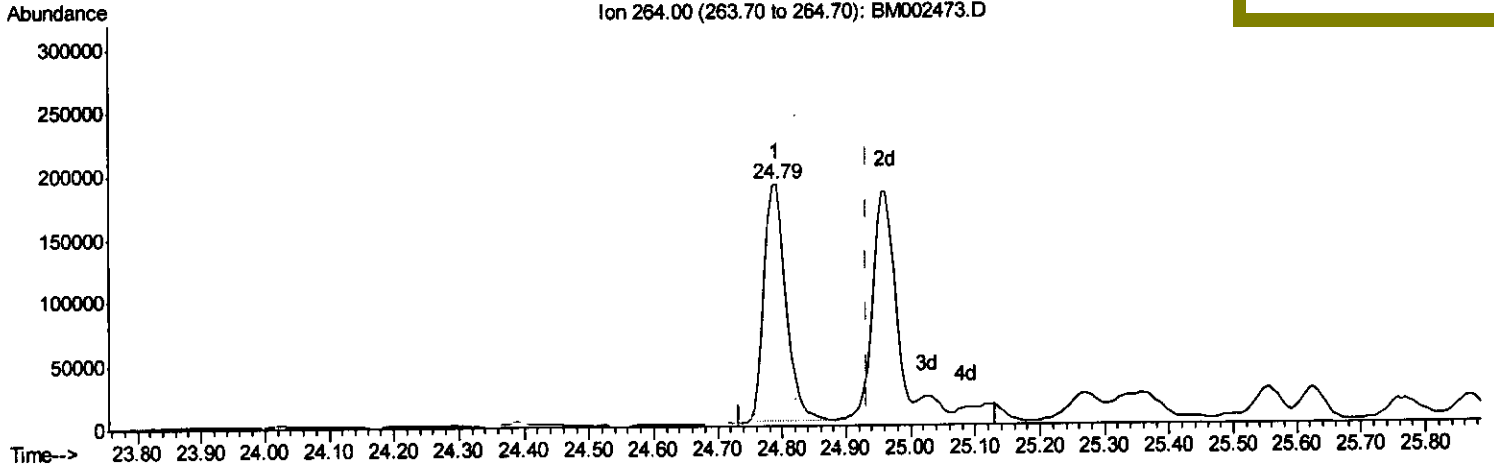
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 06:57:12 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
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(22) Perylene-d12 (I)

24.791min (-0.141) 20.00ng/ul

response 437731

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	19.26
265.00	21.40	23.02
0.00	0.00	0.00

Quantitation Report (Qedit)

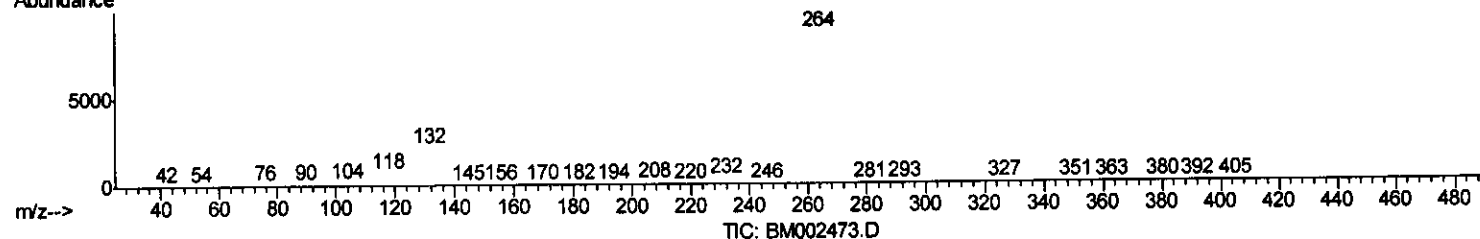
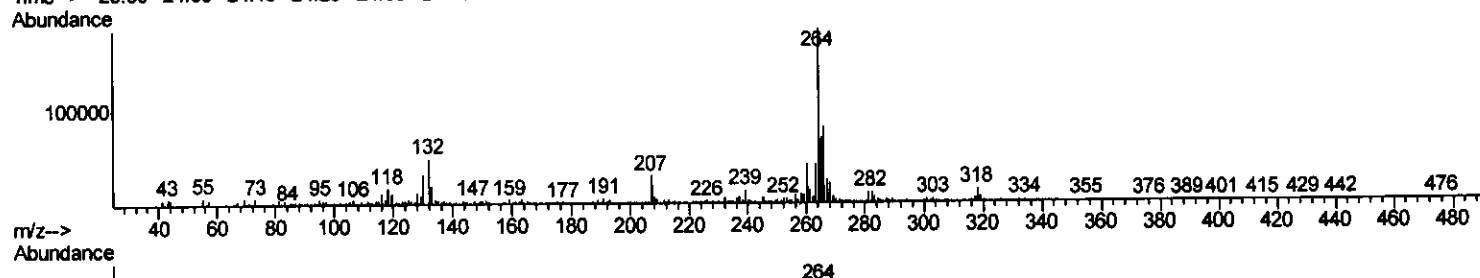
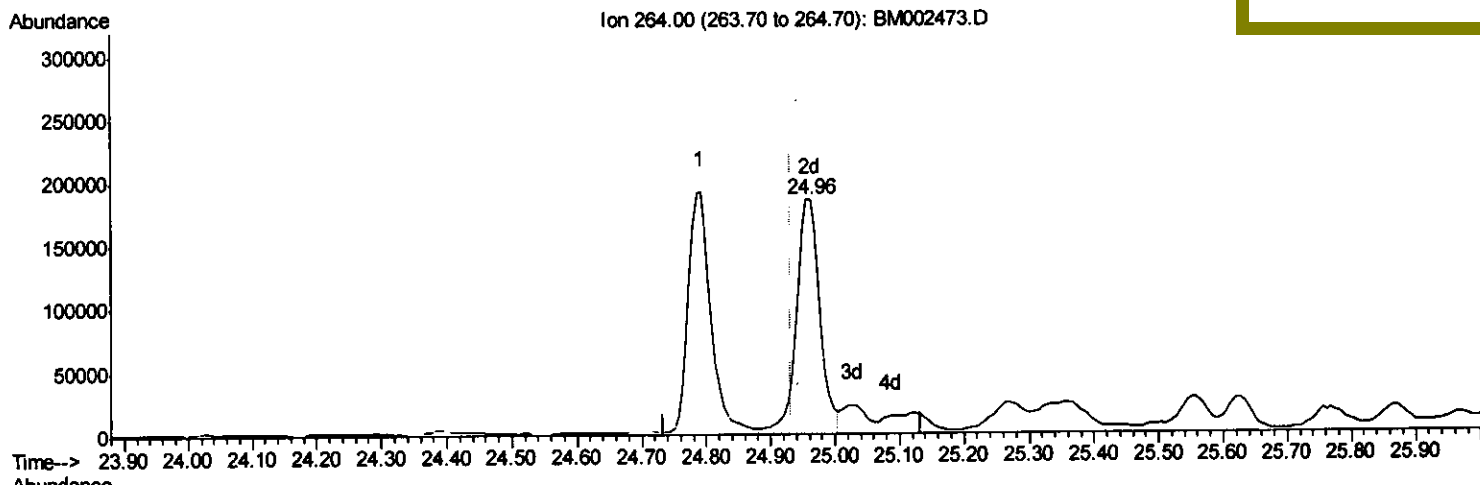
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 06:57:12 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
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(22) Perylene-d12 (I)

24.962min (+0.029) 20.00ng/ul m U.M

response 466916

8/19/15

Ion	Exp%	Act%
264.00	100	100
250.00	23.60	22.97
265.00	21.40	37.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

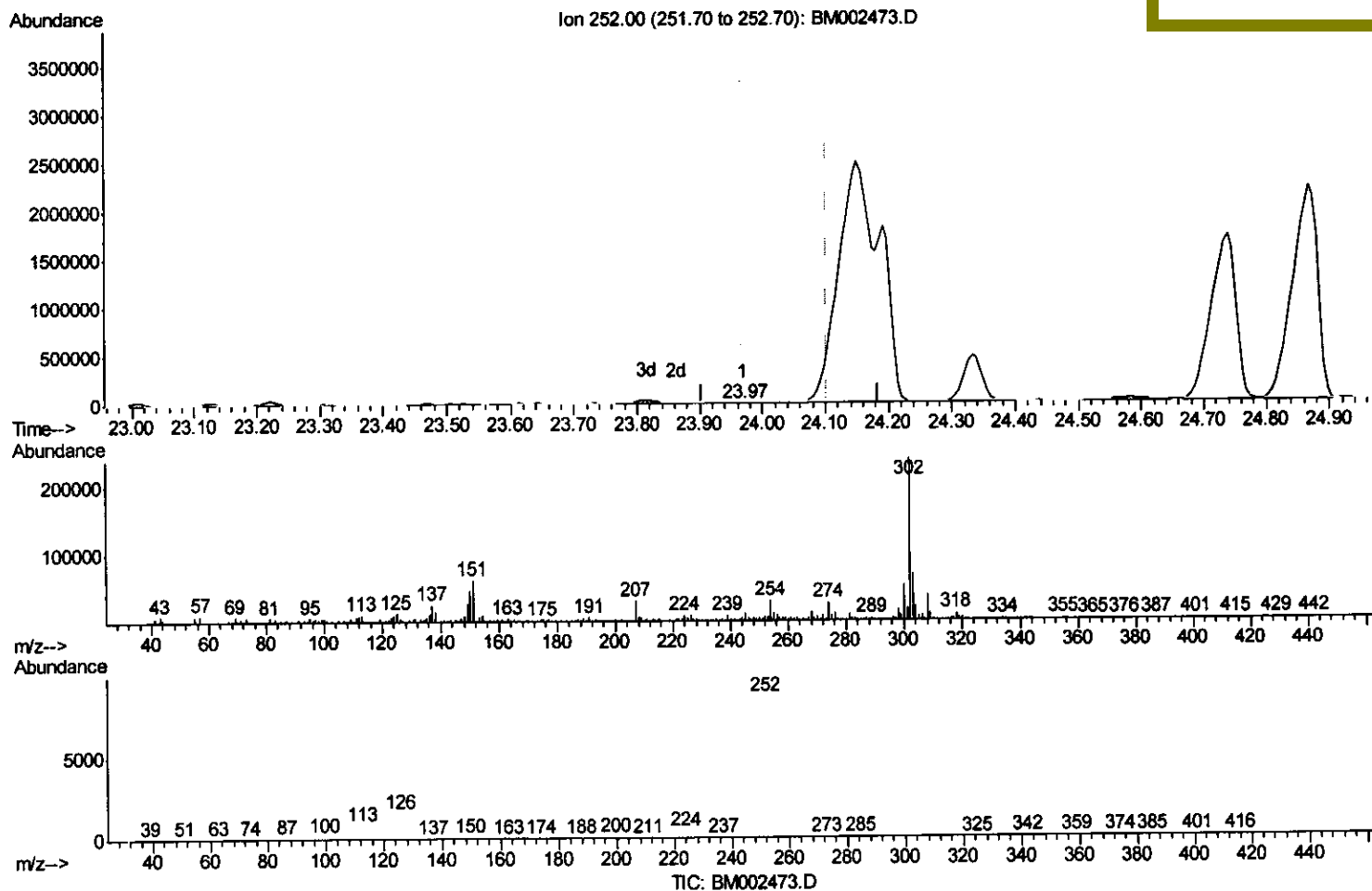
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002473.D
Acq On : 18 Aug 2015 04:31
Operator : UM/IZ
Sample : G3227-23
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
D9DE2

Quant Time: Aug 18 07:04:15 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 18 03:02:54 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

MMDadoda
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(23) Benzo(b)fluoranthene

23.968min (-0.135) 0.01ng/ul

response 268

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	109.62#
125.00	12.50	179.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

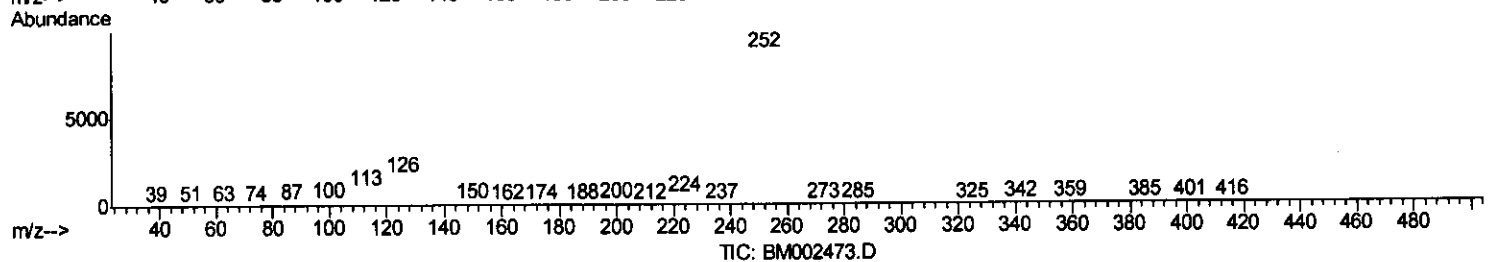
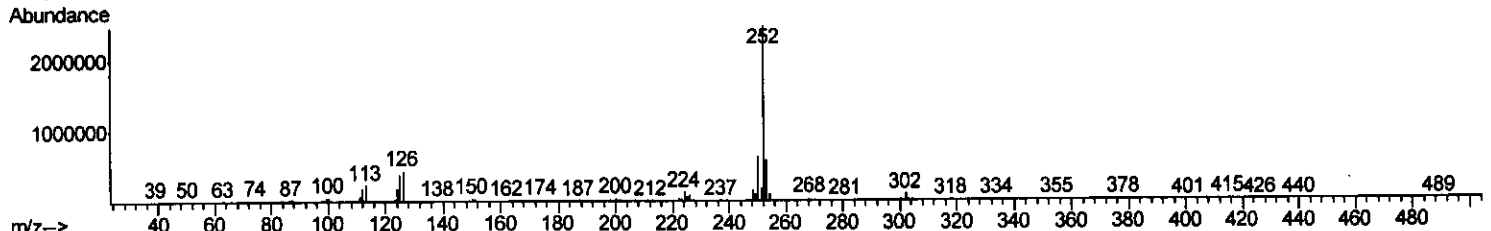
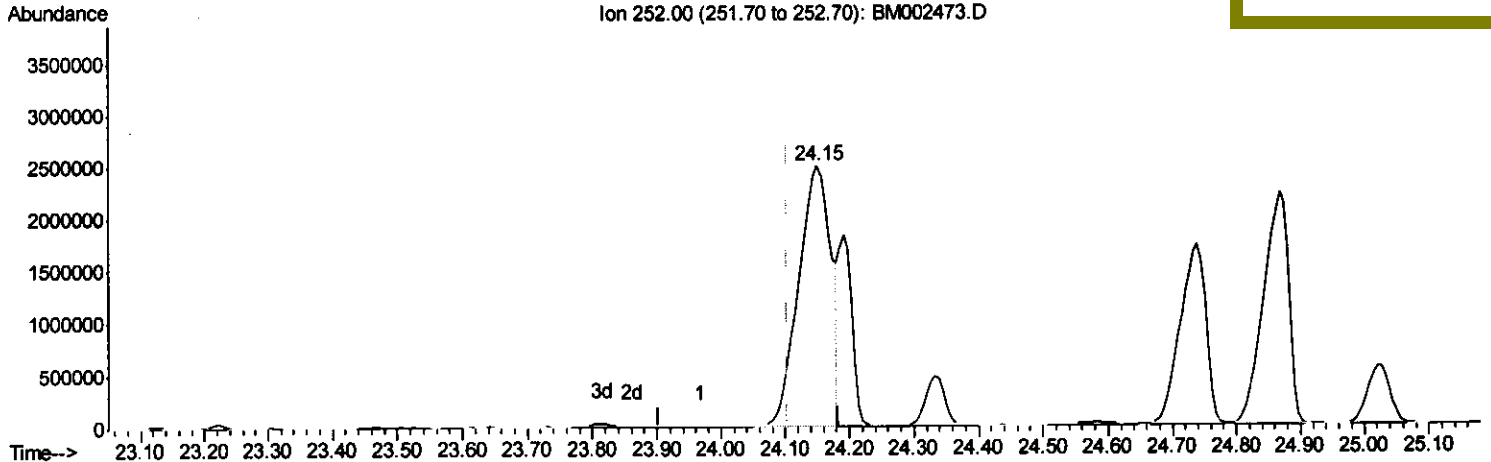
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(23) Benzo(b)fluoranthene

24.150min (+0.047) 312.76ng/ul m

response 8828221

Ion Exp% Act%

252.00 100 100

253.00 21.70 23.06

125.00 12.50 14.87

0.00 0.00 0.00

U.M
 8/19/15

Quantitation Report (Qedit)

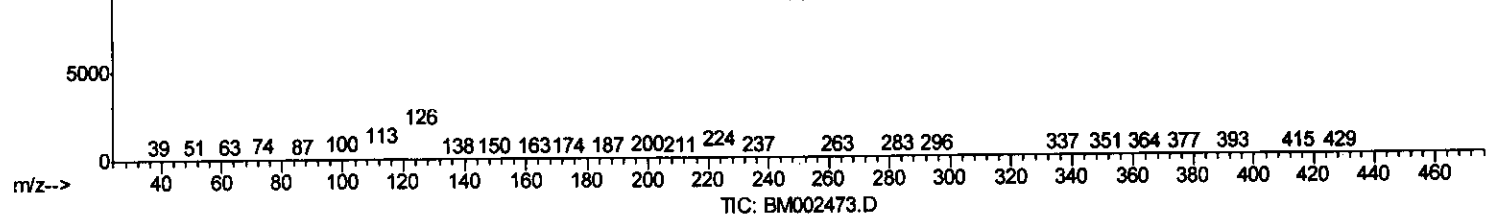
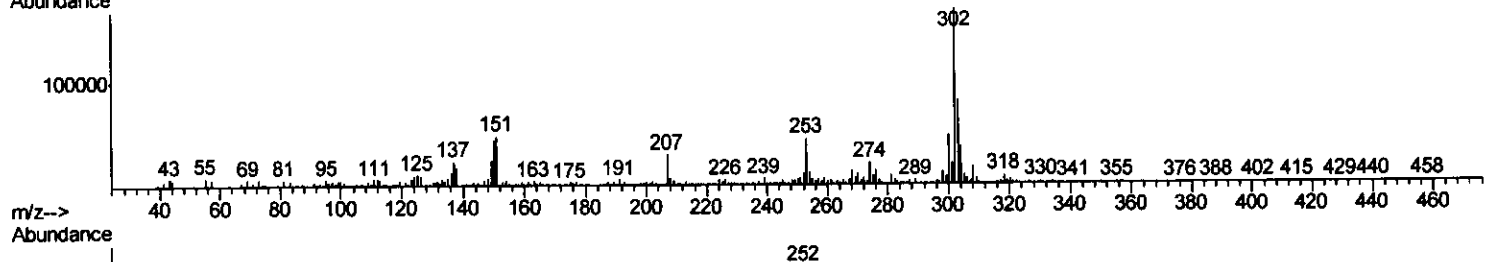
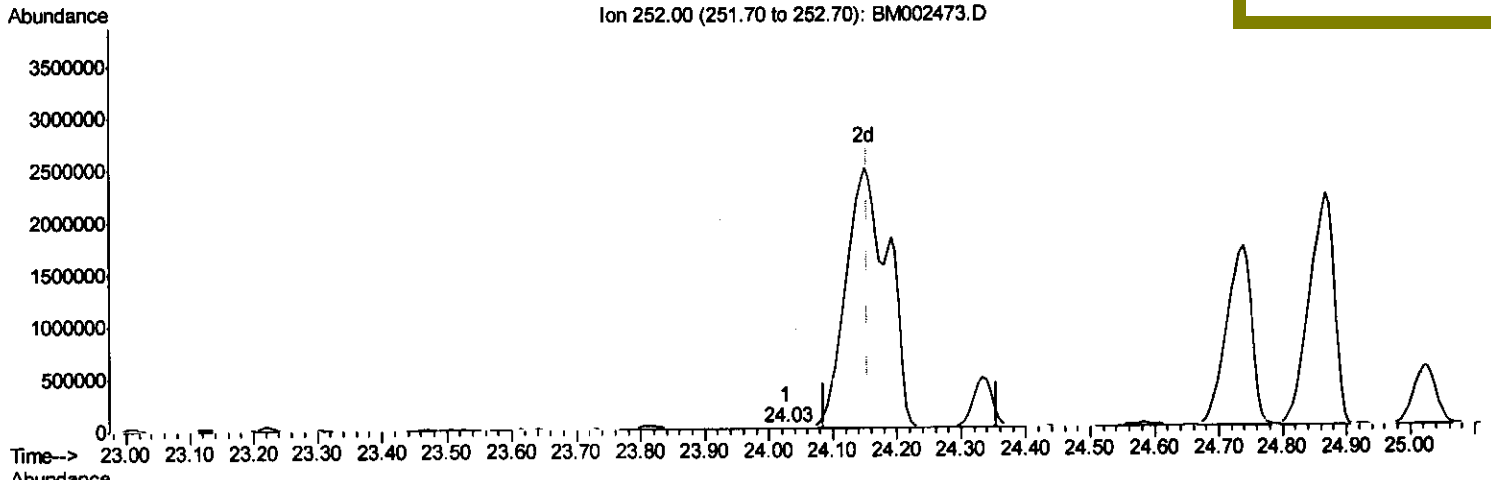
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(24) Benzo(k)fluoranthene

24.027min (-0.129) 0.59ng/ul

response 15830

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	364.67#
125.00	12.30	91.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

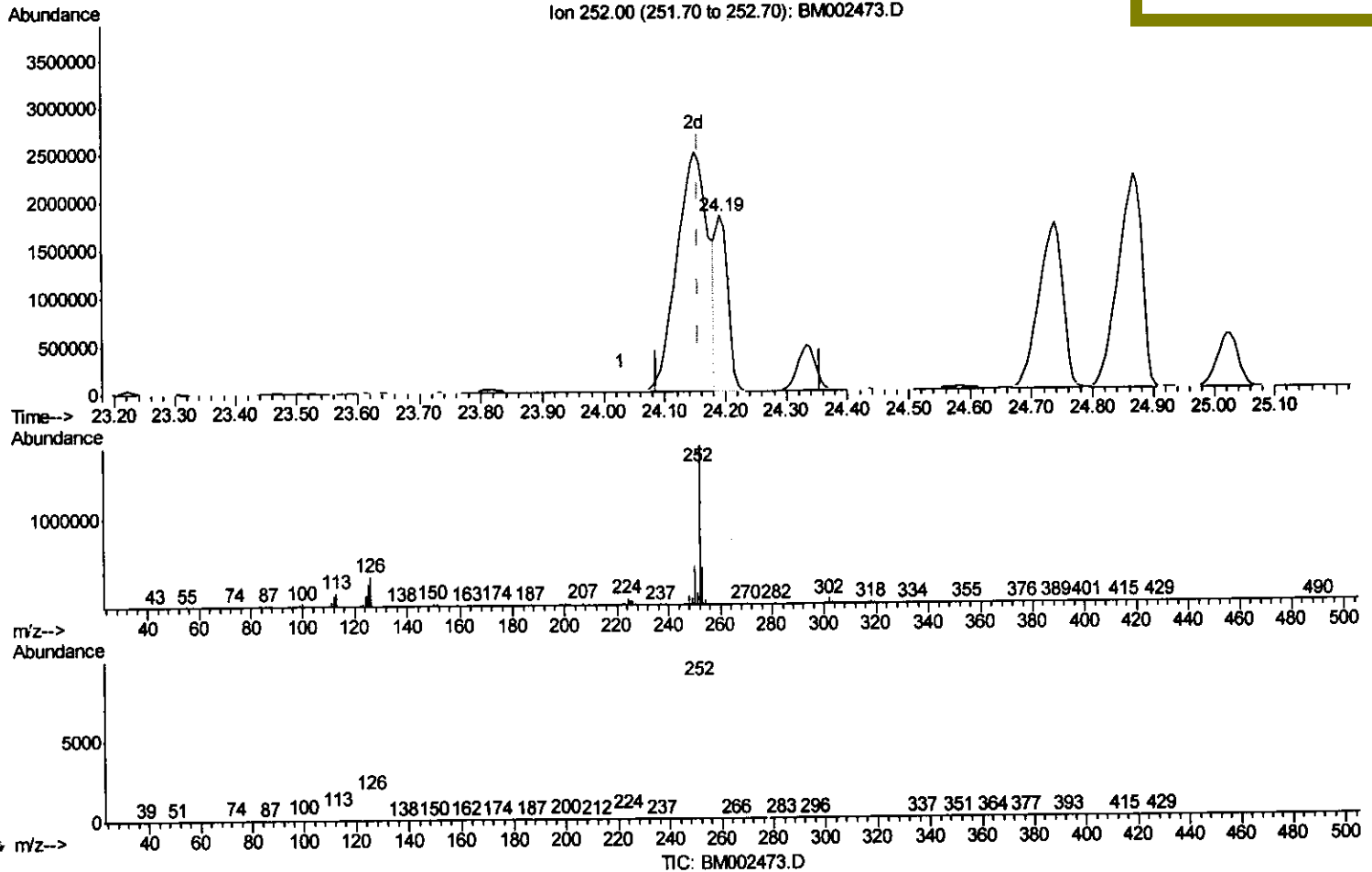
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(24) Benzo(k)fluoranthene

24.191min (+0.035) 96.61ng/ui m U.M

response 2584362

8/18/15

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	23.20
125.00	12.30	13.80
0.00	0.00	0.00

Quantitation Report (Qedit)

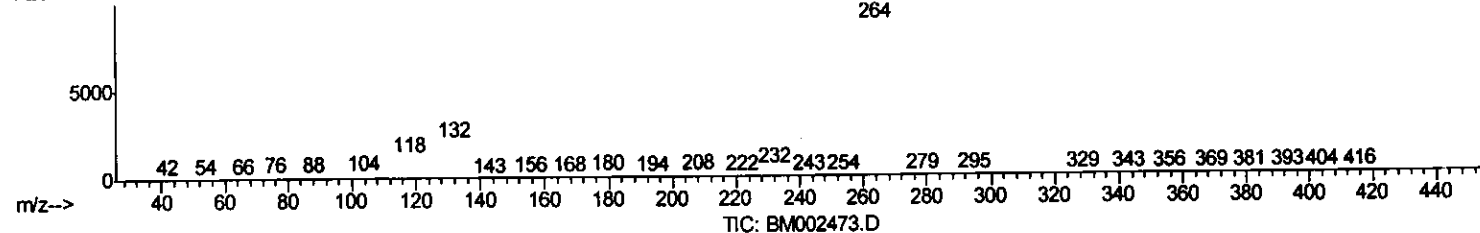
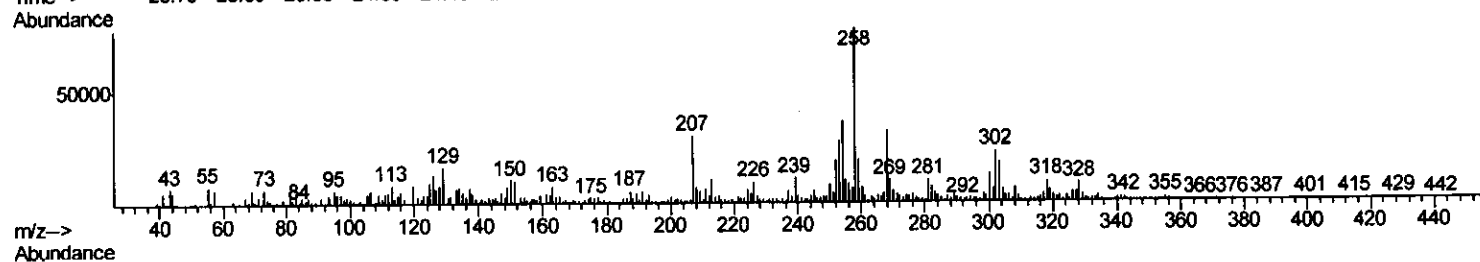
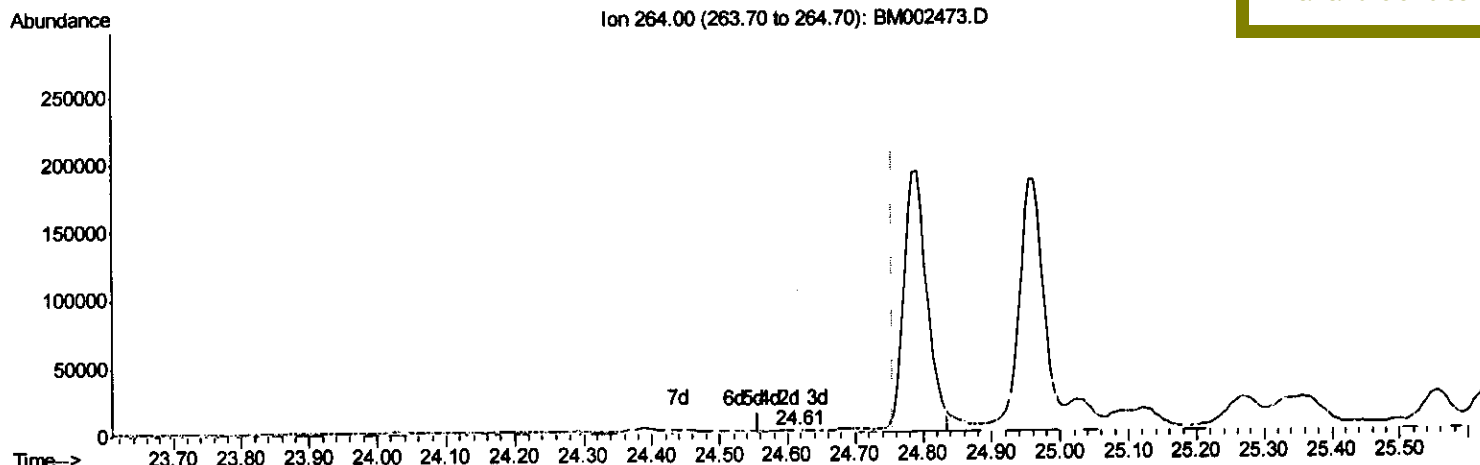
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(25) Benzo(a)pyrene-d12 (S)

24.615min (-0.141) 0.01ng/ul

response 165

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	0.00#
118.00	11.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

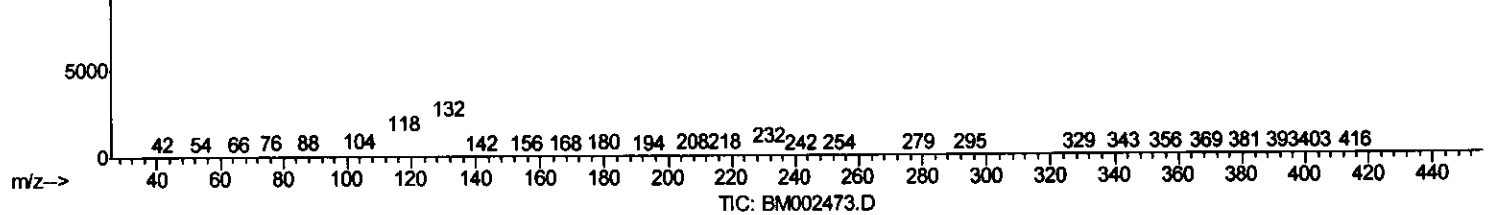
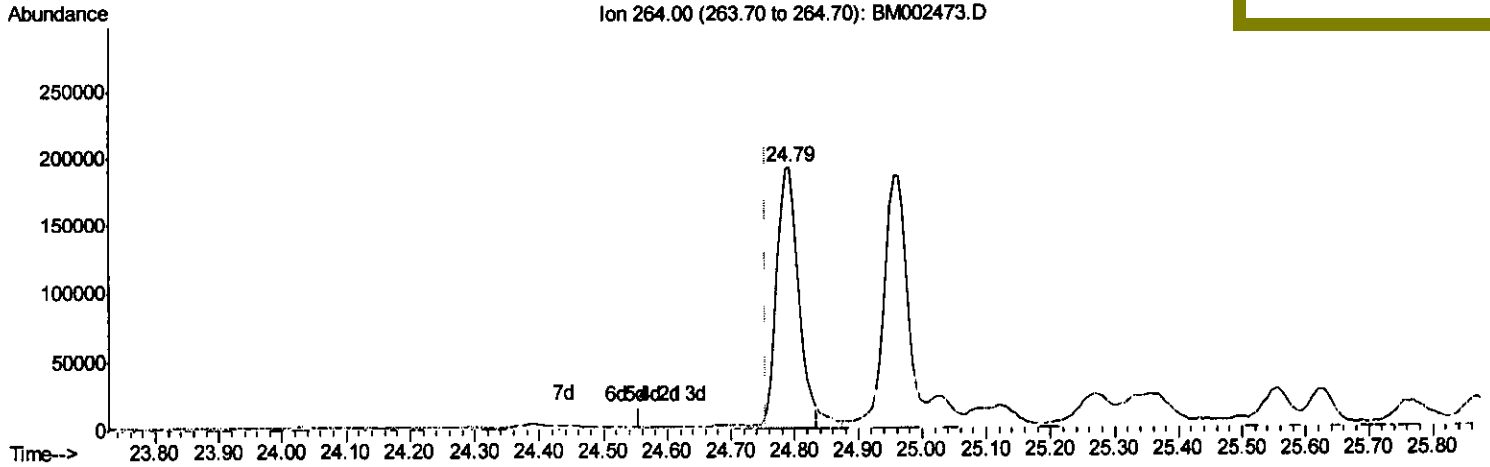
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(25) Benzo(a)pyrene-d12 (S)

24.791min (+0.035) 19.27ng/ul m

response 472647

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	20.84
118.00	11.60	12.01
0.00	0.00	0.00

U.M
 8/19/15

Quantitation Report (Qedit)

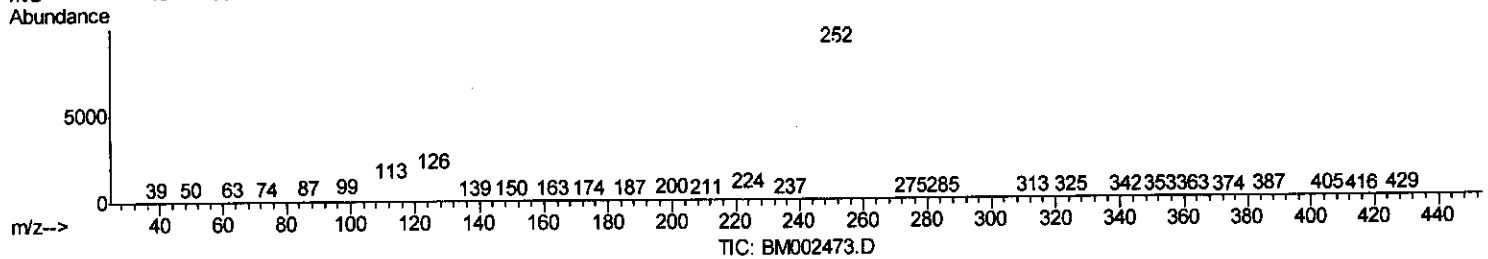
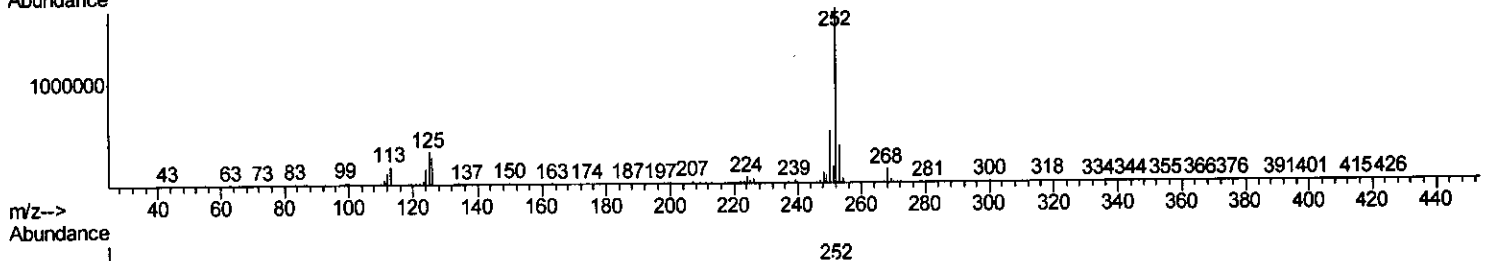
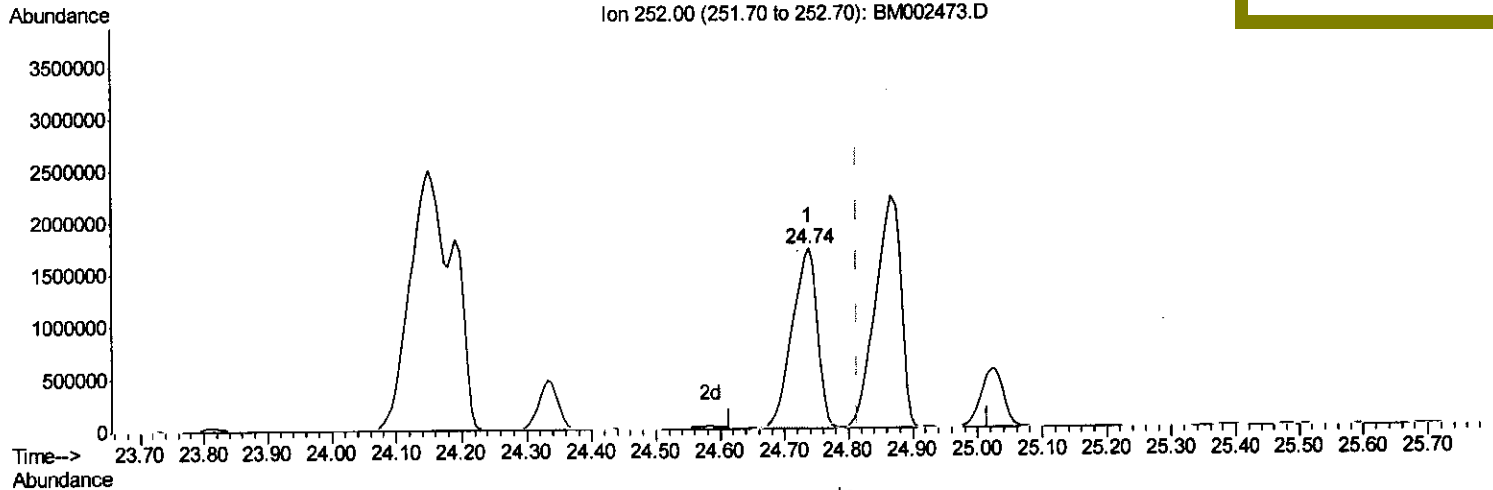
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(26) Benzo(a)pyrene (C)

24.739min (-0.076) 175.38ng/ul

response 4728327

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.26
125.00	13.40	18.89#
0.00	0.00	0.00

Quantitation Report (Qedit)

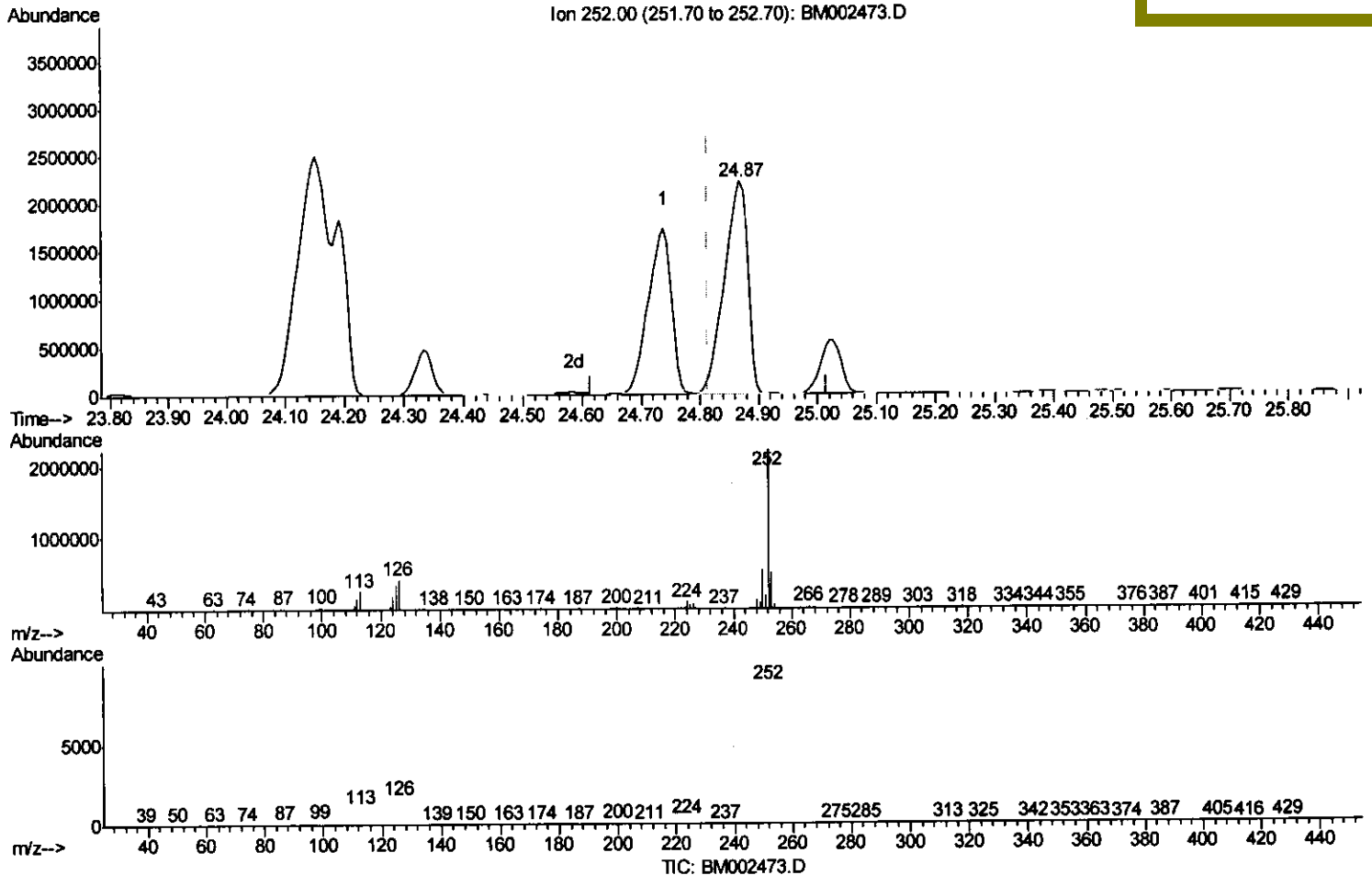
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(26) Benzo(a)pyrene (C)

24.868min (+0.053) 227.31ng/ul m U, M

response 6128523

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.62
125.00	13.40	14.96
0.00	0.00	0.00

8/19/15

Quantitation Report (Qedit)

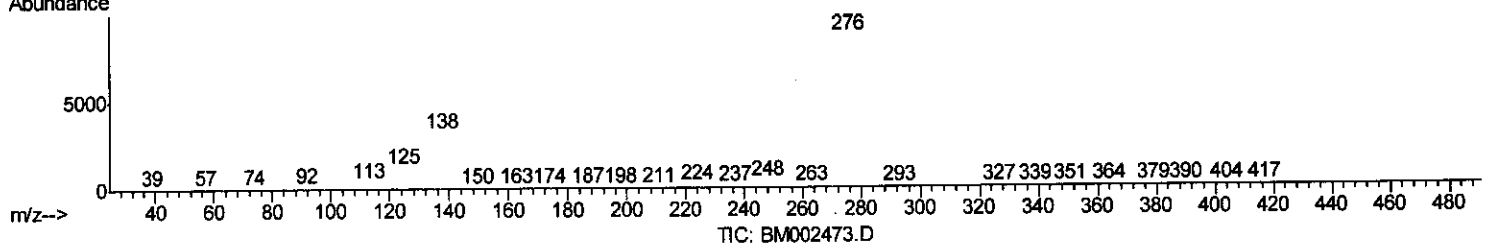
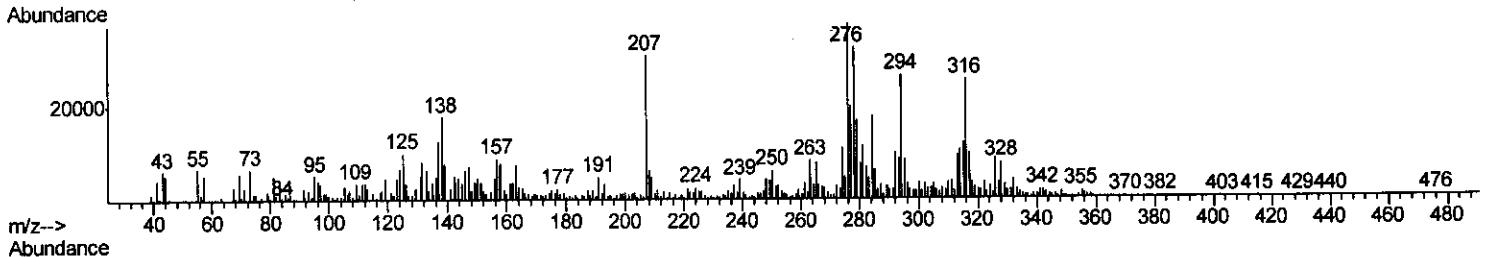
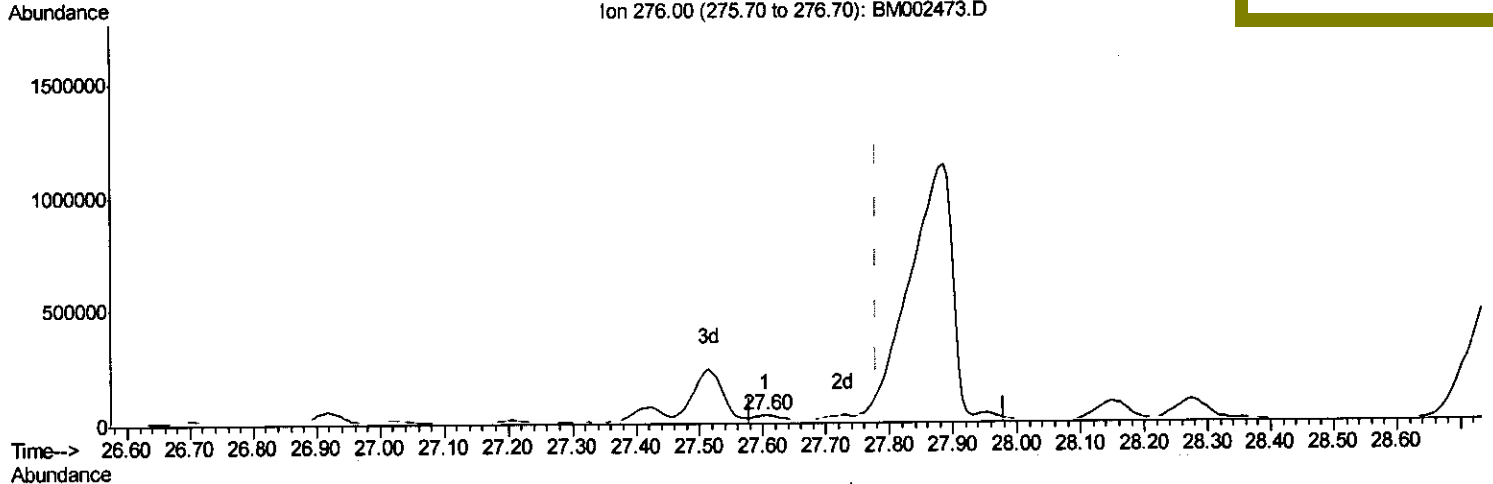
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
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 8/18/2015 5:19:33 PM



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

27.603min (-0.176) 2.20ng/ui

response 68279

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	48.12#
277.00	25.20	53.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

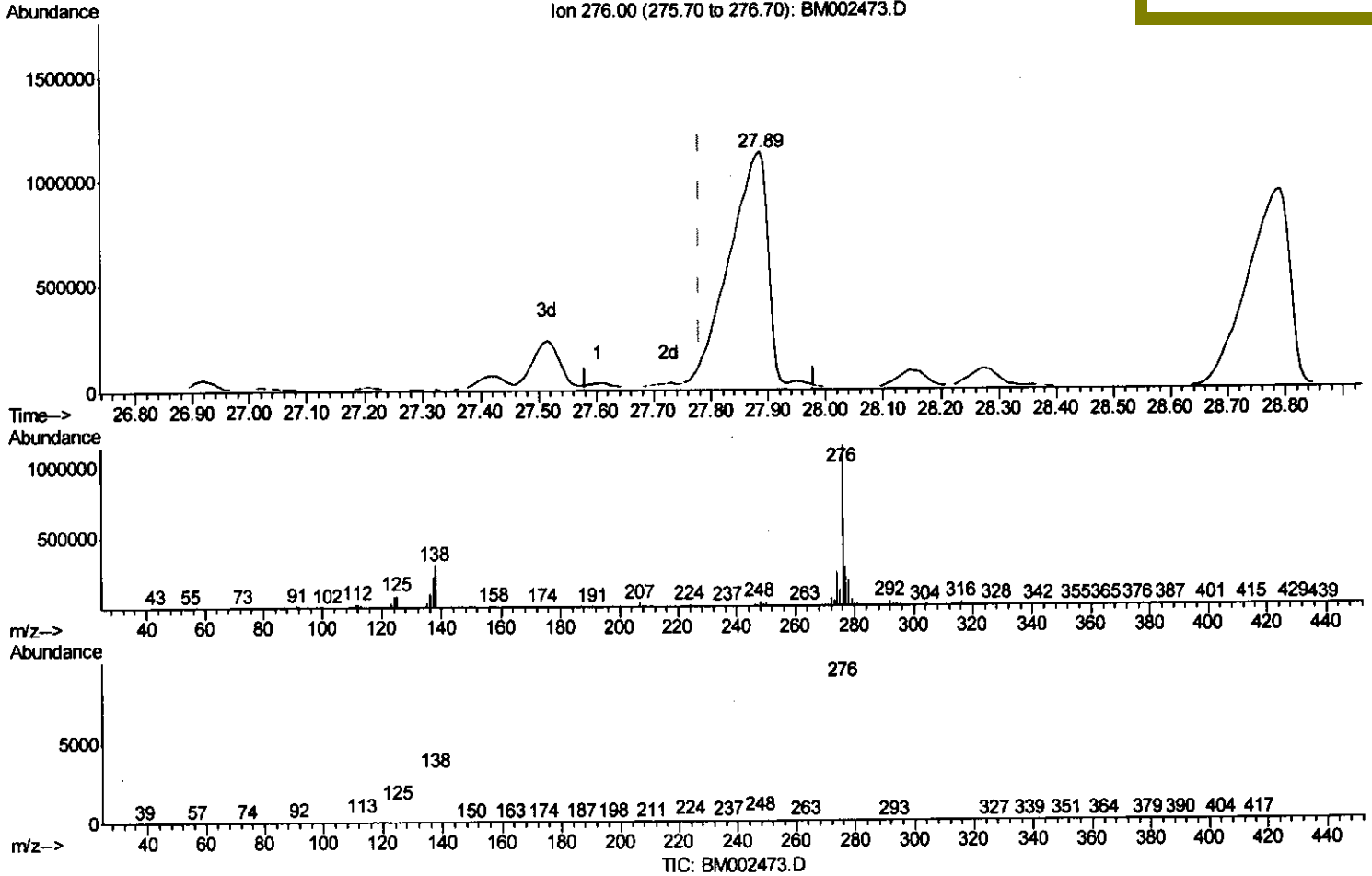
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sample ID :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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

27.885min (+0.106) 171.99ng/ul m U.M

response 5332965

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	26.48
277.00	25.20	24.76
0.00	0.00	0.00

U.M
 8/19/15

Quantitation Report (Qedit)

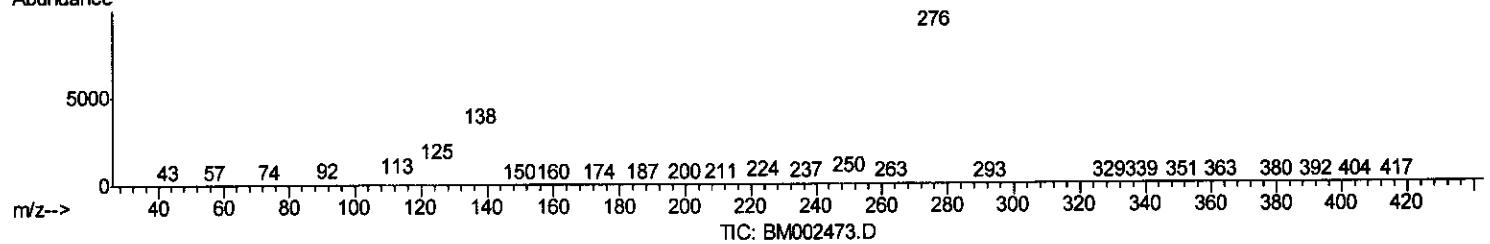
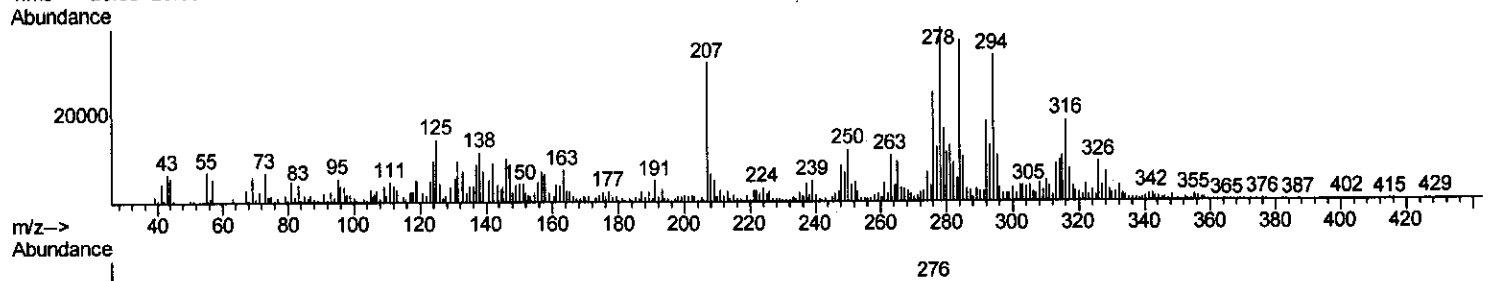
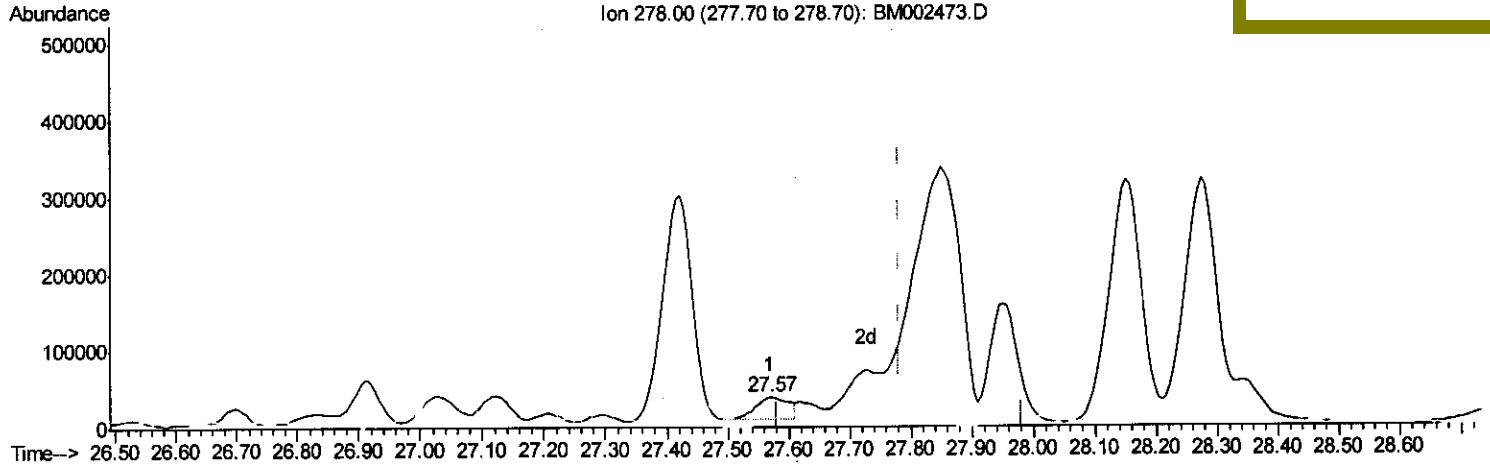
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/I2
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 8/18/2015 5:19:33 PM



(28) Dibenzo(a,h)anthracene

27.568min (-0.212) 4.19ng/ul

response 108641

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	18.47
279.00	23.50	42.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

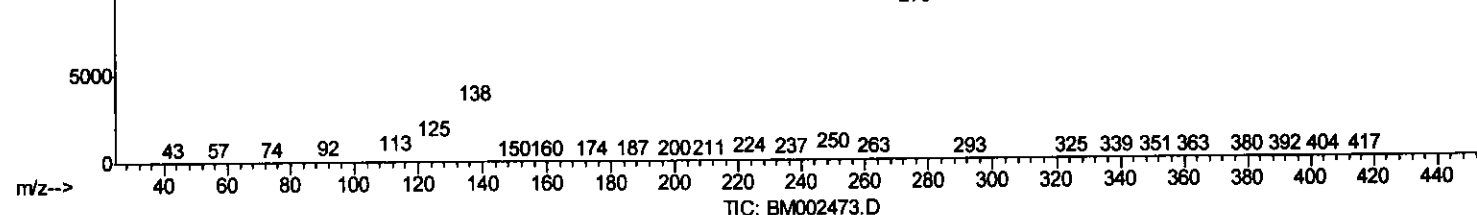
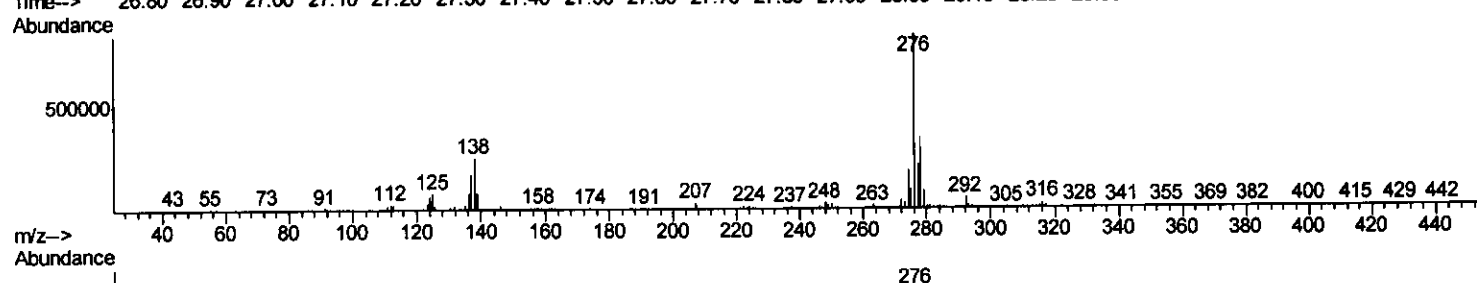
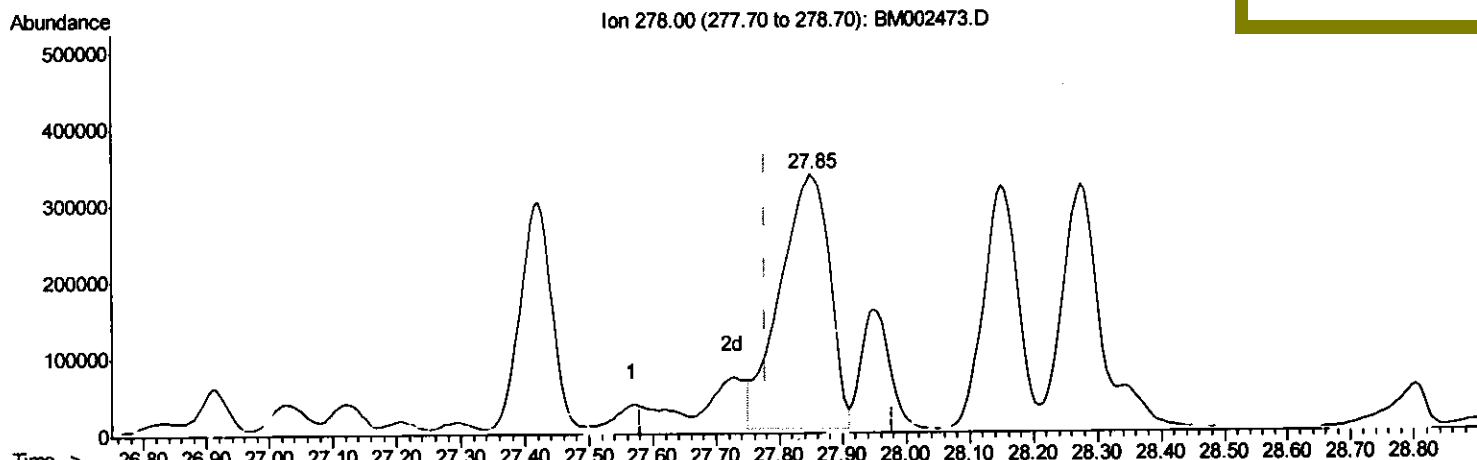
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:04:15 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:33 PM



(28) Dibenzo(a,h)anthracene

27.850min (+0.071) 69.59ng/ul m U.M

response 1803530

8/19/15

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	23.71
279.00	23.50	26.20
0.00	0.00	0.00

Quantitation Report (Qedit)

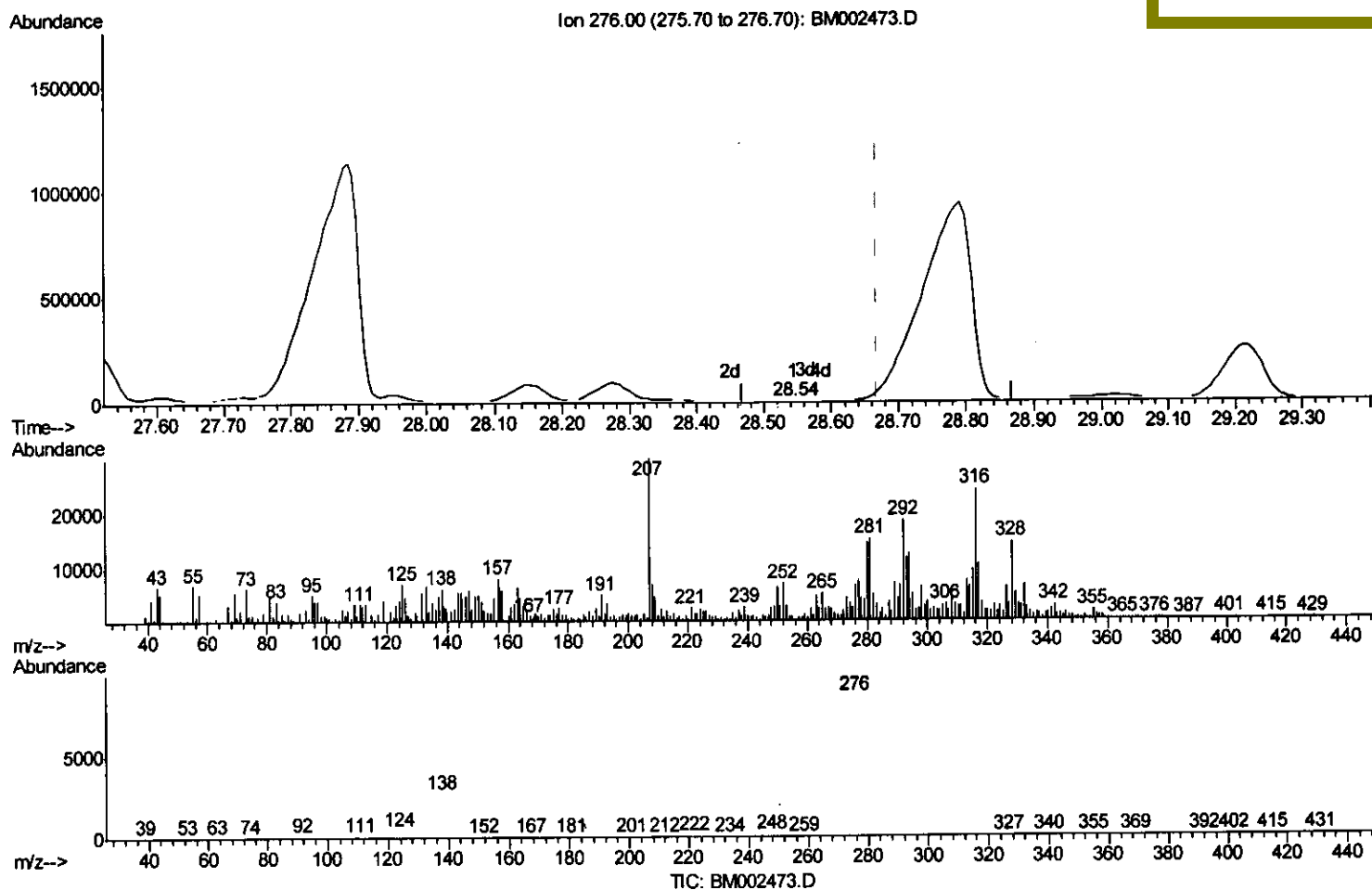
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002473.D
Acq On : 18 Aug 2015 04:31
Operator : UM/IZ
Sample : G3227-23
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE2

Quant Time: Aug 18 07:04:15 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 18 03:02:54 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

MMDadoda
8/18/2015 5:19:33 PM



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

28.544min (-0.123) 0.06ng/ul

response 1464

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	92.27#
277.00	24.00	113.68#
0.00	0.00	0.00

Quantitation Report (Qedit)

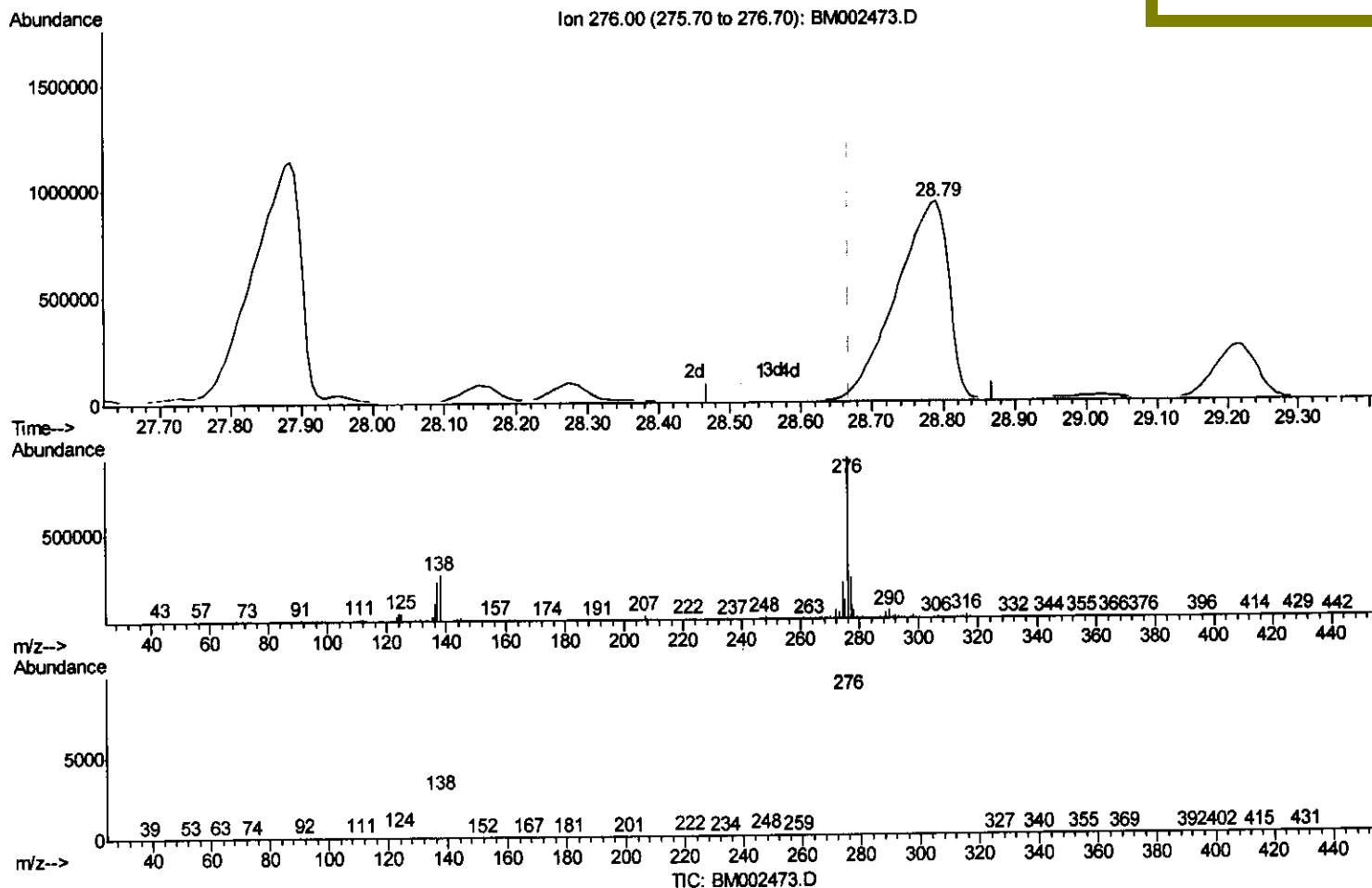
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002473.D
Acq On : 18 Aug 2015 04:31
Operator : UM/IZ
Sample : G3227-23
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE2

Quant Time: Aug 18 07:04:15 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 18 03:02:54 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

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8/18/2015 5:19:33 PM



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

28.791min (+0.124) 184.83ng/ul m U.M
response 4770462 8/19/15

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	28.20
277.00	24.00	25.55
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002473.D
 Acq On : 18 Aug 2015 04:31
 Operator : UM/IZ
 Sample : G3227-23
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE2

Quant Time: Aug 18 07:08:32 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 18 03:02:54 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.88	152	147268	20.00	ng/ul	0.00
2) Naphthalene-d8	11.75	136	654232	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.46	164	330113	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.17	188	564991	20.00	ng/ul	0.00
17) Chrysene-d12	22.26	240	378365	20.00	ng/ul	0.01
22) Perylene-d12	24.96	264	466916m	20.00	ng/ul	0.03

System Monitoring Compounds

7) Acenaphthylene-d8	15.17	160	871253	25.81	ng/ul	0.00
10) Fluorene-d10	16.43	176	546140	23.04	ng/ul	0.00
14) Anthracene-d10	18.27	188	670033	24.59	ng/ul	0.00
18) Pyrene-d10	20.49	212	495529	29.55	ng/ul	0.00
25) Benzo(a)pyrene-d12	24.79	264	472647m	19.27	ng/ul	0.04

Target Compounds

						Ovalue
3) Naphthalene	11.80	128	120515	3.61	ng/ul	99
4) 2-Methylnaphthalene	13.35	142	71680	2.87	ng/ul	100
5) 1-Methylnaphthalene	13.56	142	52283	2.11	ng/ul	99
9) Acenaphthene	15.52	153	54173	2.33	ng/ul	97
11) Fluorene	16.49	166	82979	3.11	ng/ul	95
13) Phenanthrene	18.22	178	1203745	36.90	ng/ul	100
15) Anthracene	18.30	178	277074	8.38	ng/ul	99
16) Fluoranthene	20.16	202	3289216	89.05	ng/ul	97
19) Pyrene	20.52	202	3094296	139.60	ng/ul	98
20) Benzo(a)anthracene	22.24	228	3600646	159.14	ng/ul	97
21) Chrysene	22.31	228	4124523	194.90	ng/ul	96
23) Benzo(b)fluoranthene	24.15	252	8828221m	312.76	ng/ul	
24) Benzo(k)fluoranthene	24.19	252	2584362m	96.61	ng/ul	
26) Benzo(a)pyrene	24.87	252	6128523m	227.31	ng/ul	
27) Indeno(1,2,3-cd)pyrene	27.89	276	5332965m	171.99	ng/ul	
28) Dibenzo(a,h)anthracene	27.85	278	1803530m	69.59	ng/ul	
29) Benzo(a,h,i)perylene	28.79	276	4770462m	184.83	ng/ul	

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