

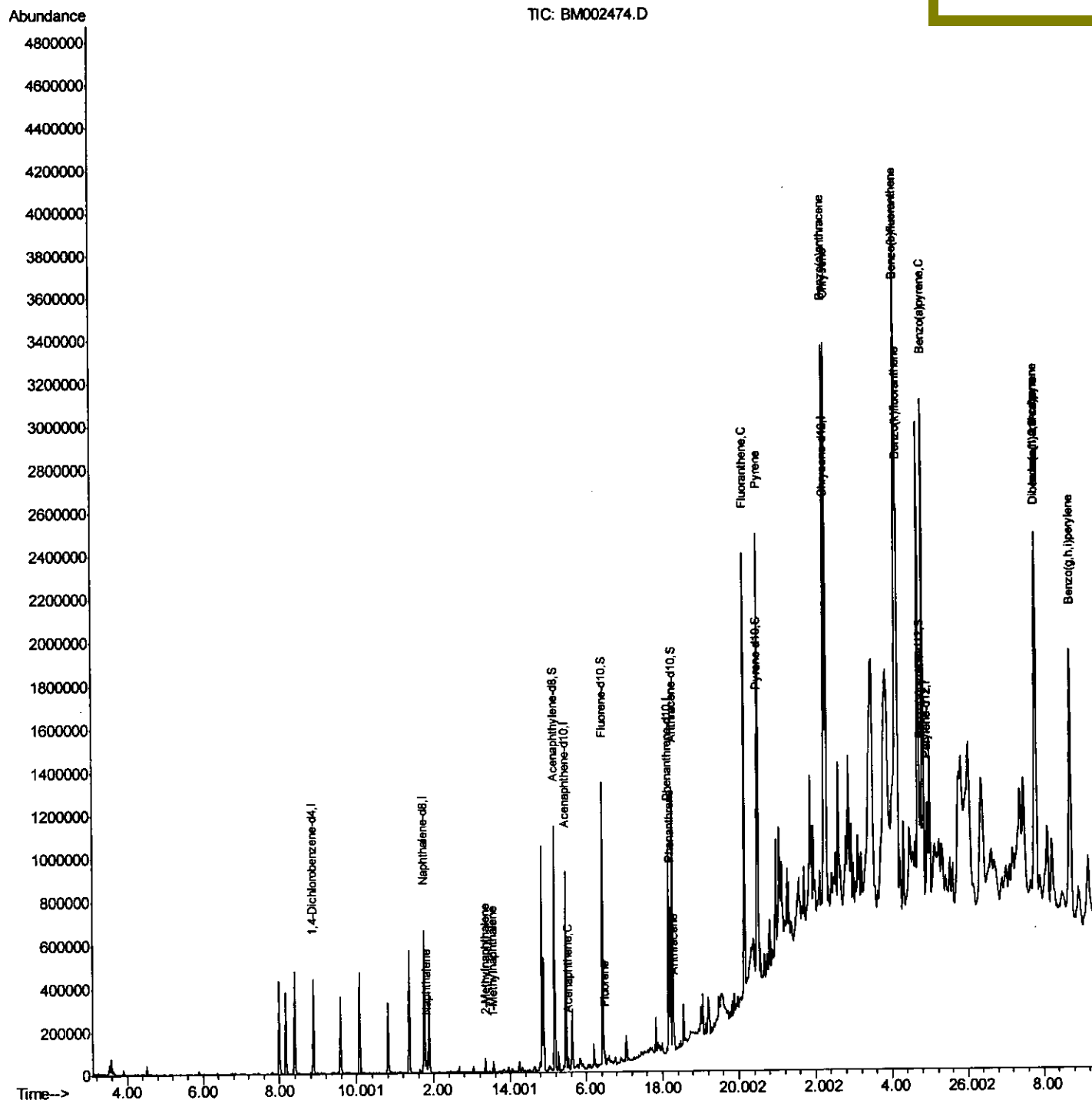
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002474.D
Acq On : 18 Aug 2015 05:08
Operator : UM/IZ
Sample : G3227-24
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
Client Sampled :
D9DE3

Quant Time: Aug 18 07:16:33 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 5:19:40 PM



Quantitation Report (Qedit)

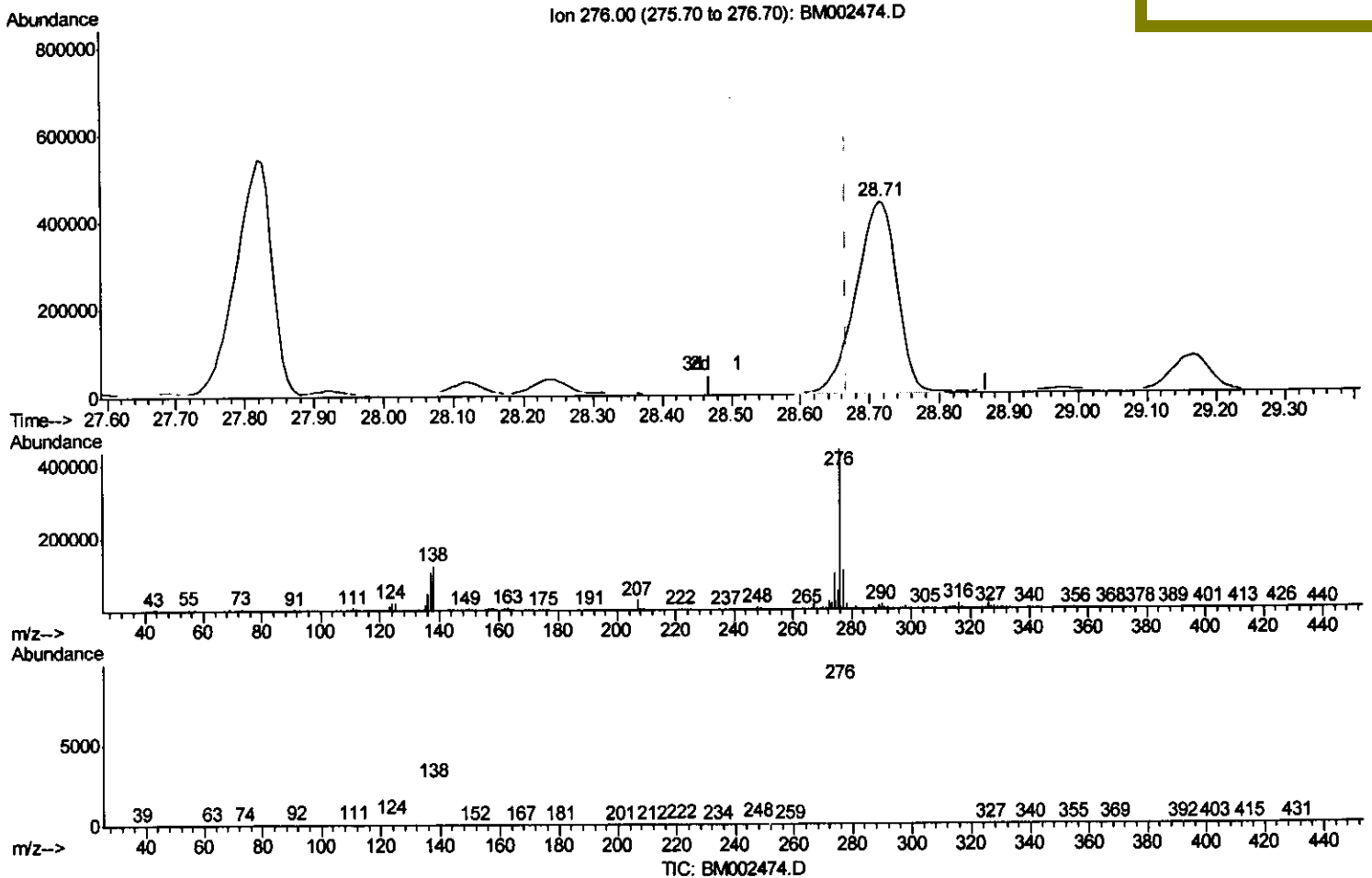
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



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

28.715min (+0.047) 78.39ng/ul m U.M
 response 1767296 8/19/15

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	28.17
277.00	24.00	24.48
0.00	0.00	0.00

Quantitation Report (Qedit)

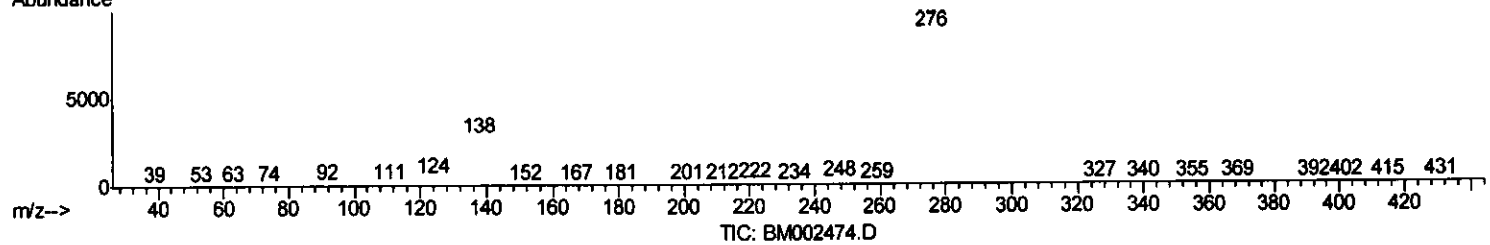
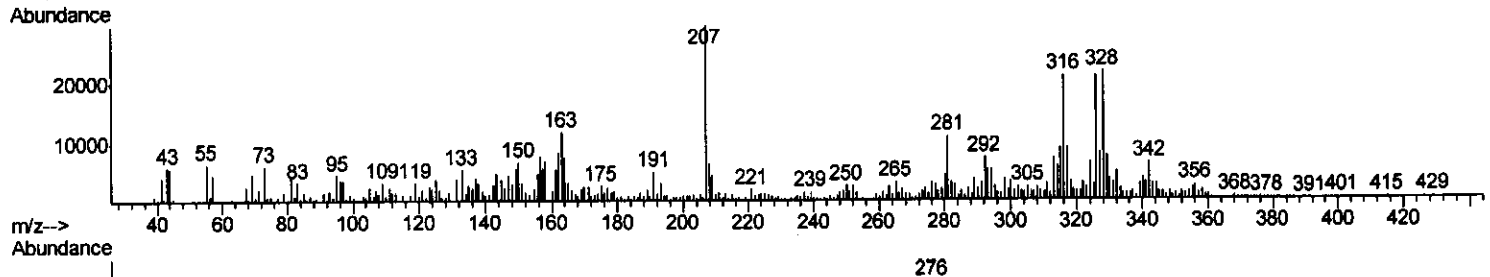
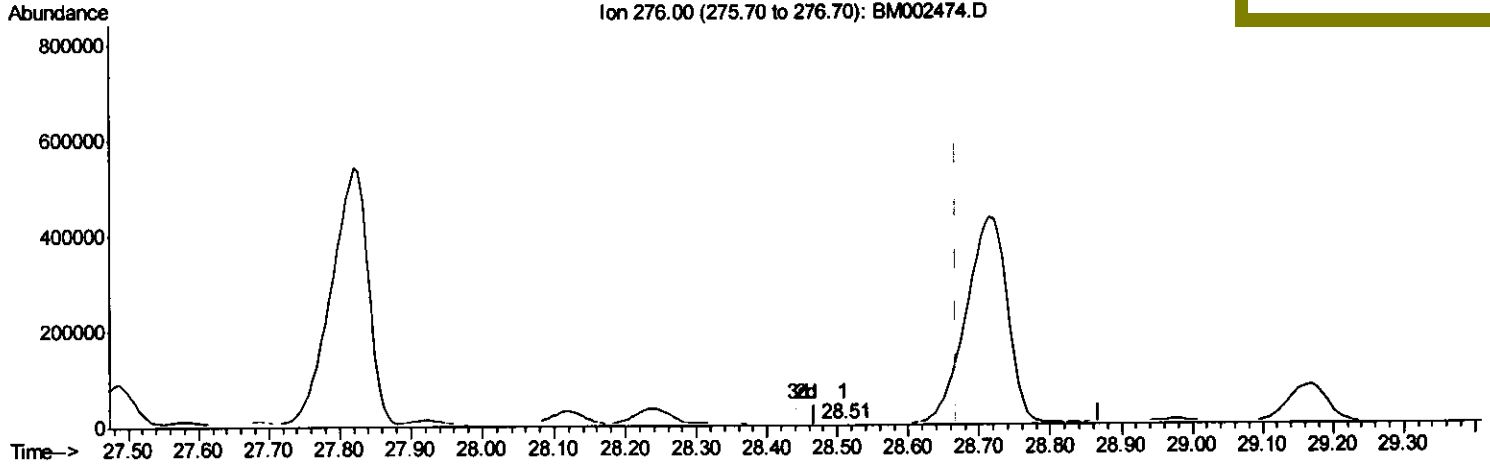
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002474.D
Acq On : 18 Aug 2015 05:08
Operator : UM/IZ
Sample : G3227-24
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



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

28.509min (-0.159) 0.07ng/ul

response 1566

Ion	Exp%	Act%
276.00	100	100
138.00	26.30	102.49#
277.00	24.00	89.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

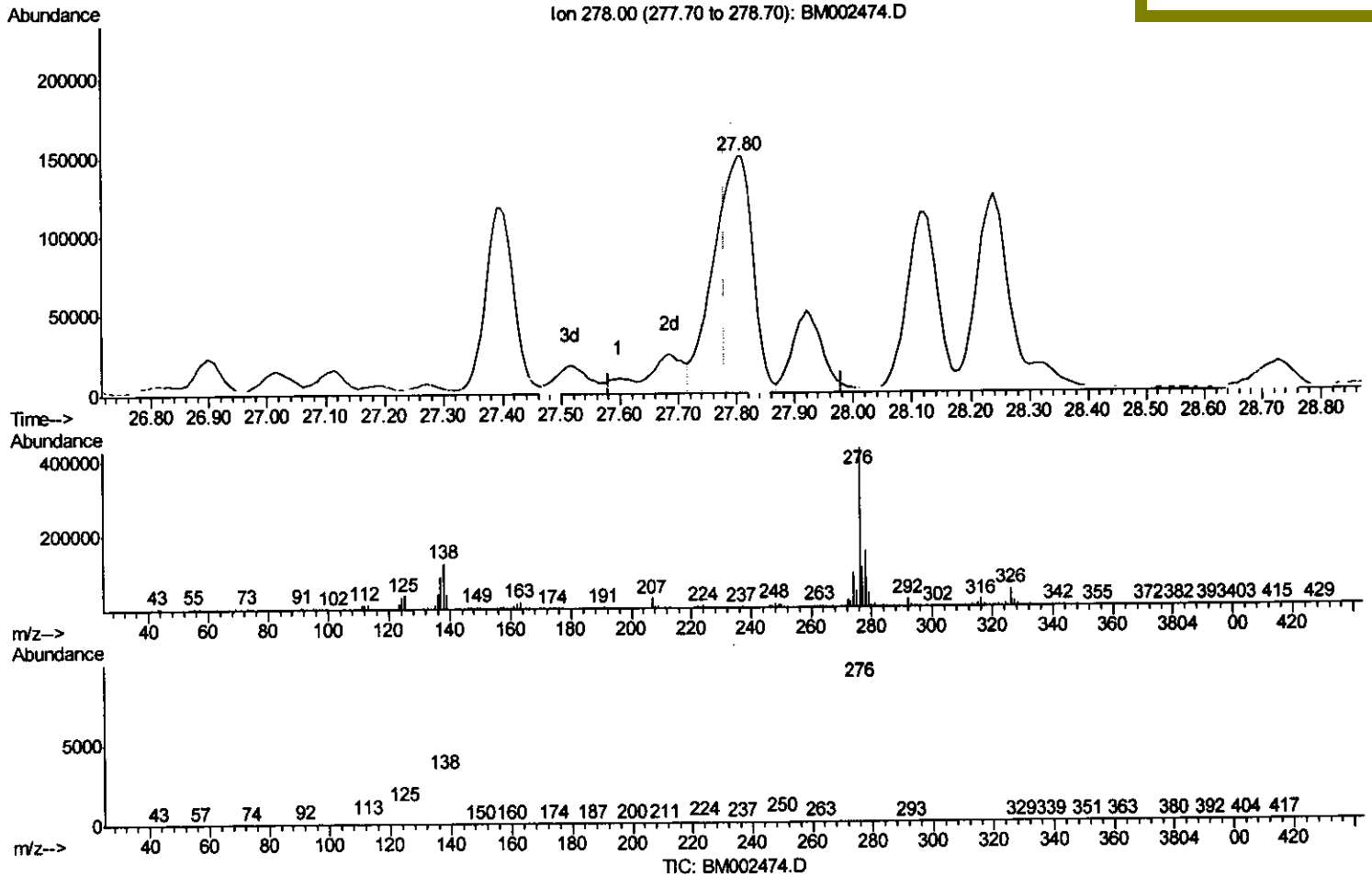
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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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(28) Dibenzo(a,h)anthracene

27.803min (+0.024) 30.51ng/ul m U,M

response 690713

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	25.27#
279.00	23.50	25.82
0.00	0.00	0.00

Quantitation Report (Qedit)

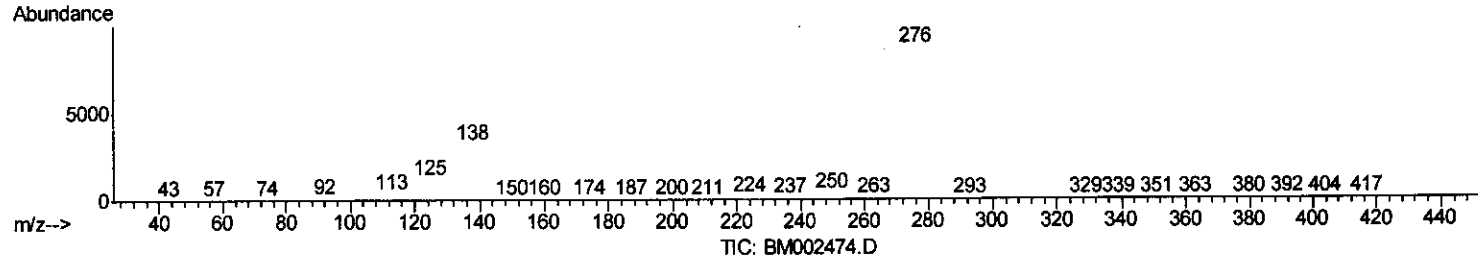
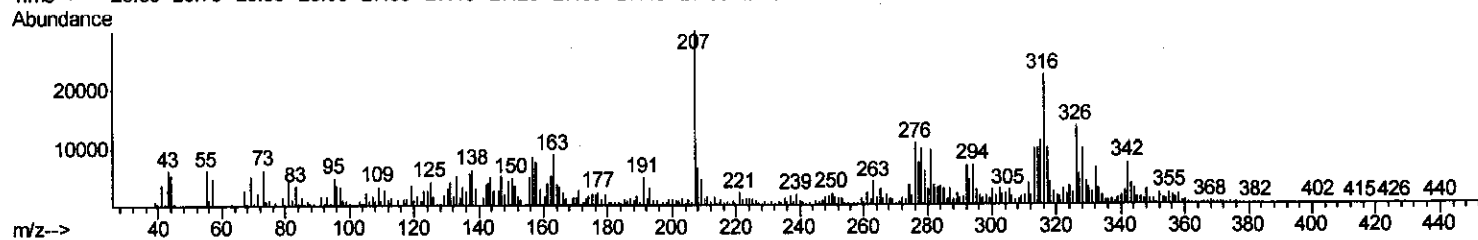
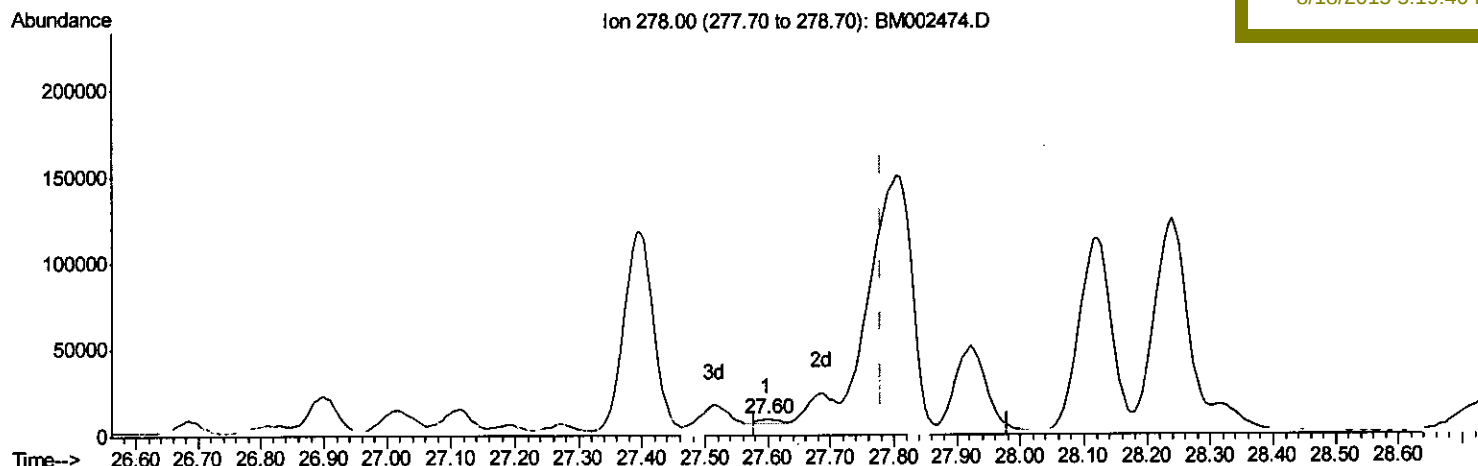
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002474.D
Acq On : 18 Aug 2015 05:08
Operator : UM/IZ
Sample : G3227-24
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE3

Quant Time: Aug 18 07:10:33 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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(28) Dibenzo(a,h)anthracene

27.597min (-0.182) 0.30ng/ul

response 6743

Ion	Exp%	Act%
278.00	100	100
139.00	20.60	34.27#
279.00	23.50	63.45#
0.00	0.00	0.00

Quantitation Report (Qedit)

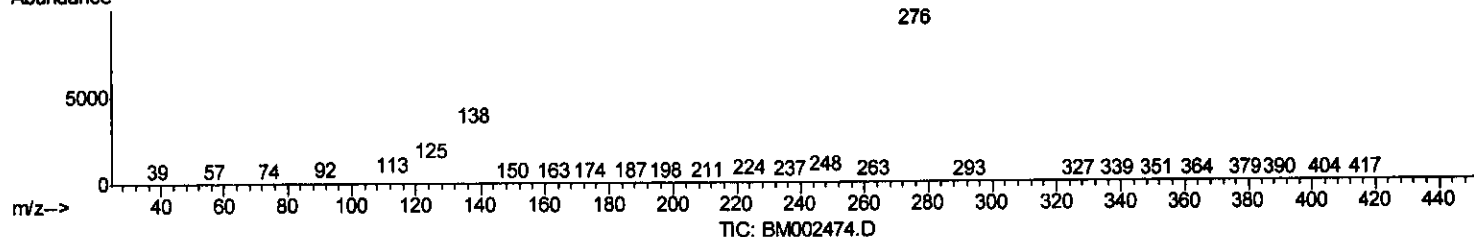
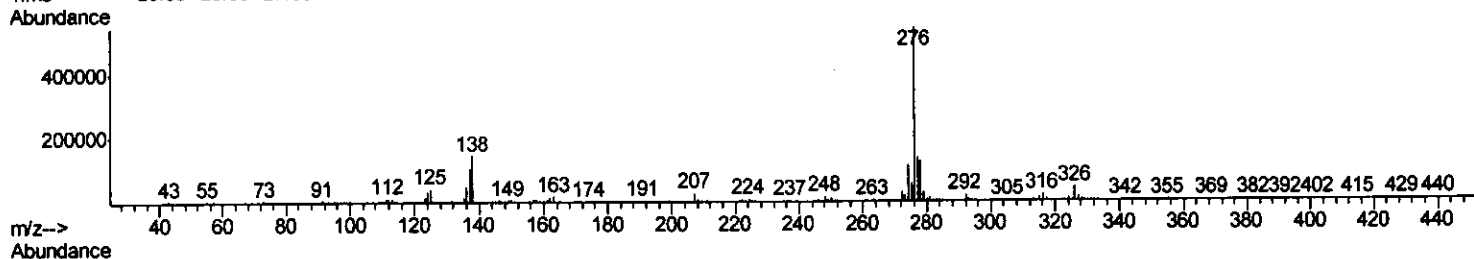
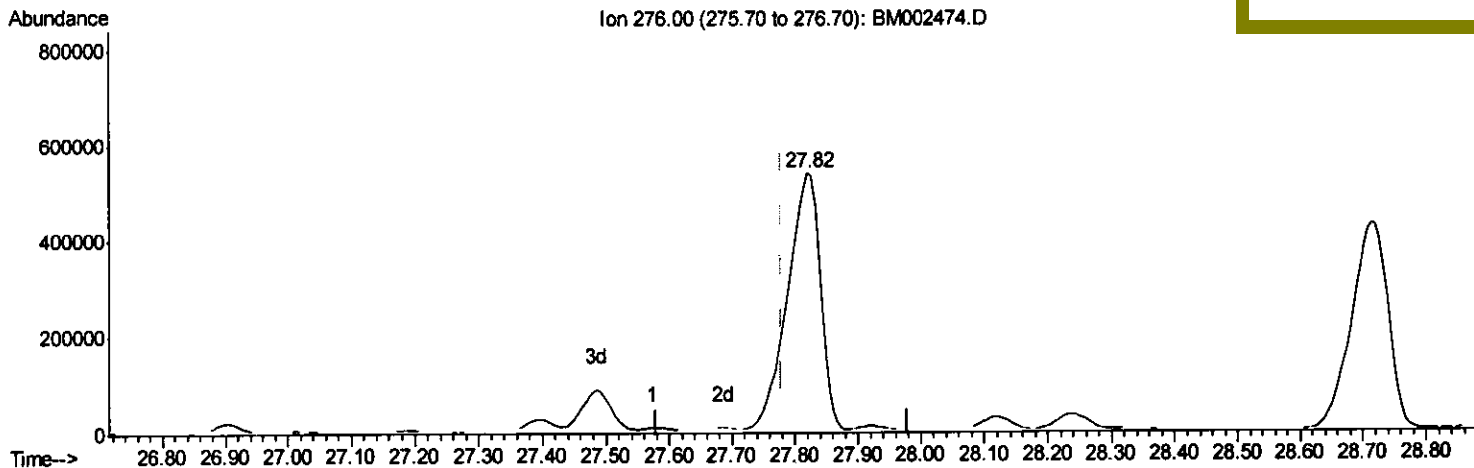
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sample ID :
 D9DE3

Quant Time: Aug 18 07:10:33 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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(27) Indeno(1,2,3-cd)pyrene

27.821min (+0.041) 73.57ng/ul m U.M
8/19/15

response 1992579

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	26.50
277.00	25.20	25.08
0.00	0.00	0.00

Quantitation Report (Qedit)

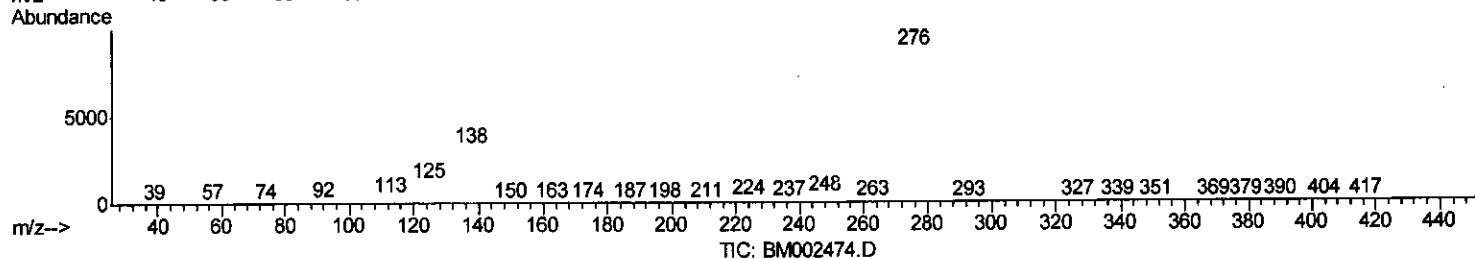
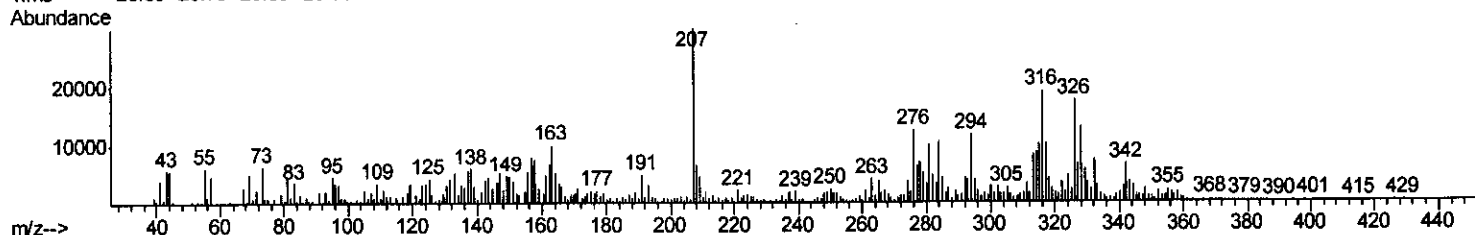
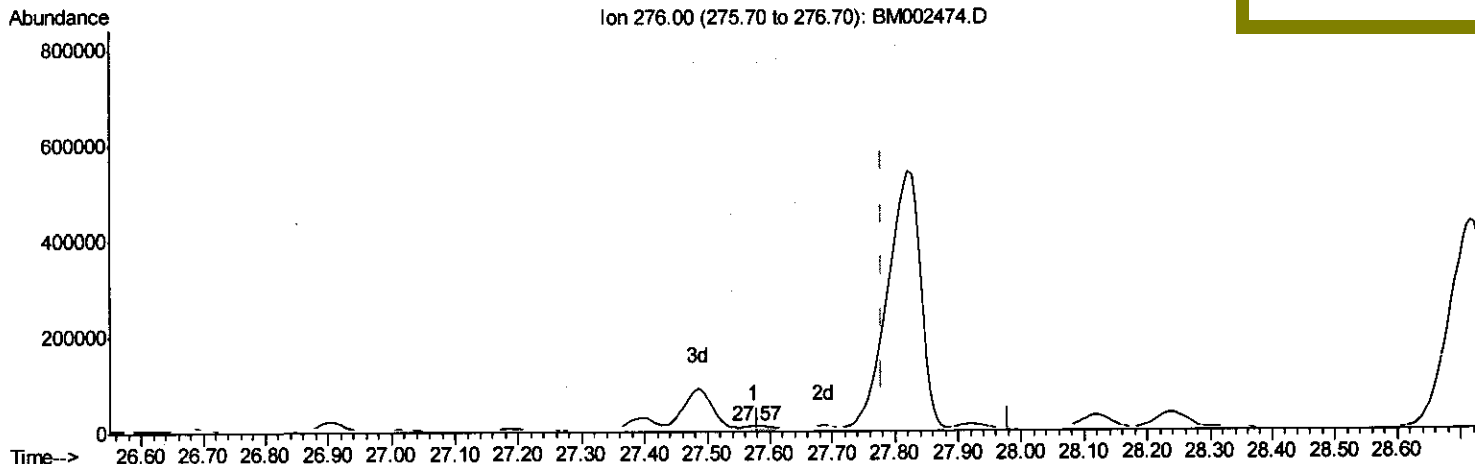
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sampled :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



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

27.574min (-0.206) 0.78ng/ul

response 21195

Ion	Exp%	Act%
276.00	100	100
138.00	31.60	49.32#
277.00	25.20	52.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

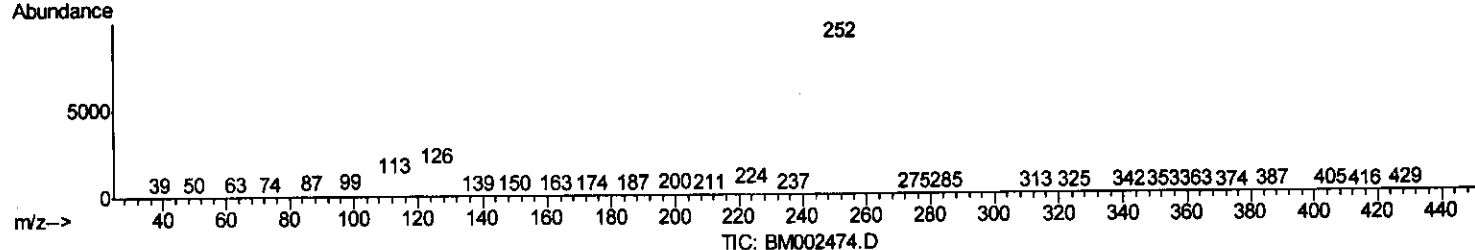
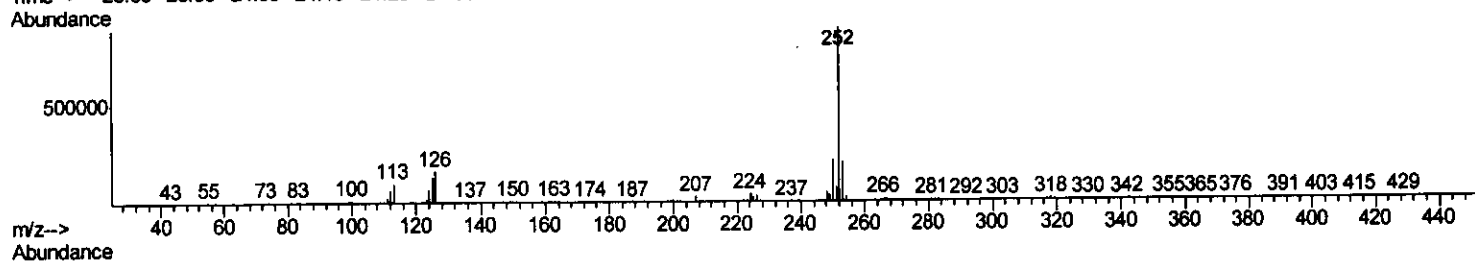
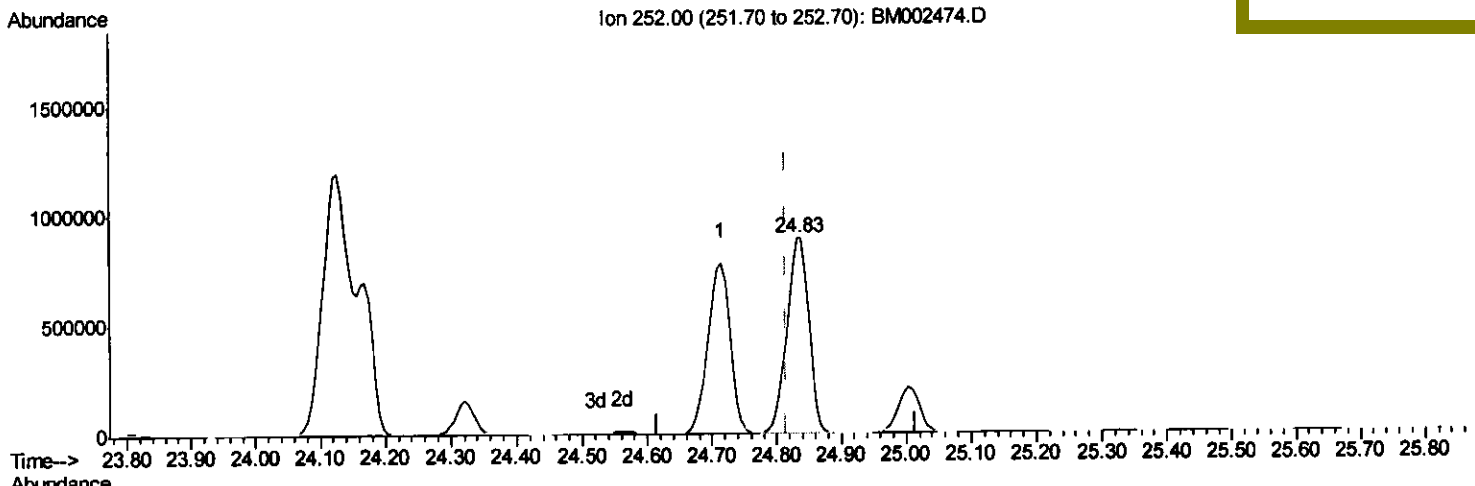
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



(26) Benzo(a)pyrene (C)

24.833min (+0.018) 88.96ng/ul m U.M

response 2094881

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.52
125.00	13.40	14.44
0.00	0.00	0.00

8/19/15

Quantitation Report (Qedit)

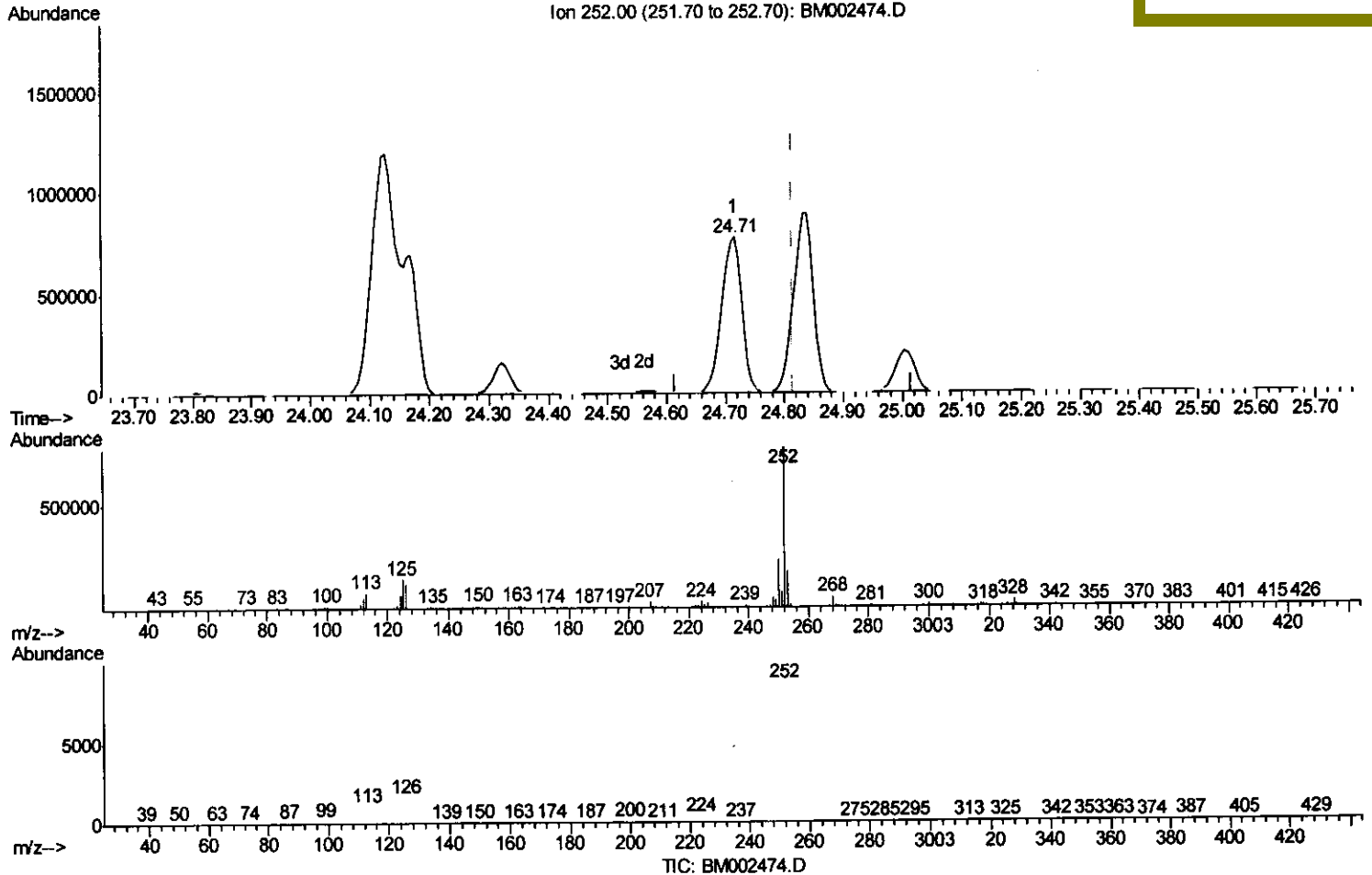
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



(26) Benzo(a)pyrene (C)

24.715min (-0.100) 78.54ng/ul

response 1849617

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.48
125.00	13.40	18.24#
0.00	0.00	0.00

Quantitation Report (Qedit)

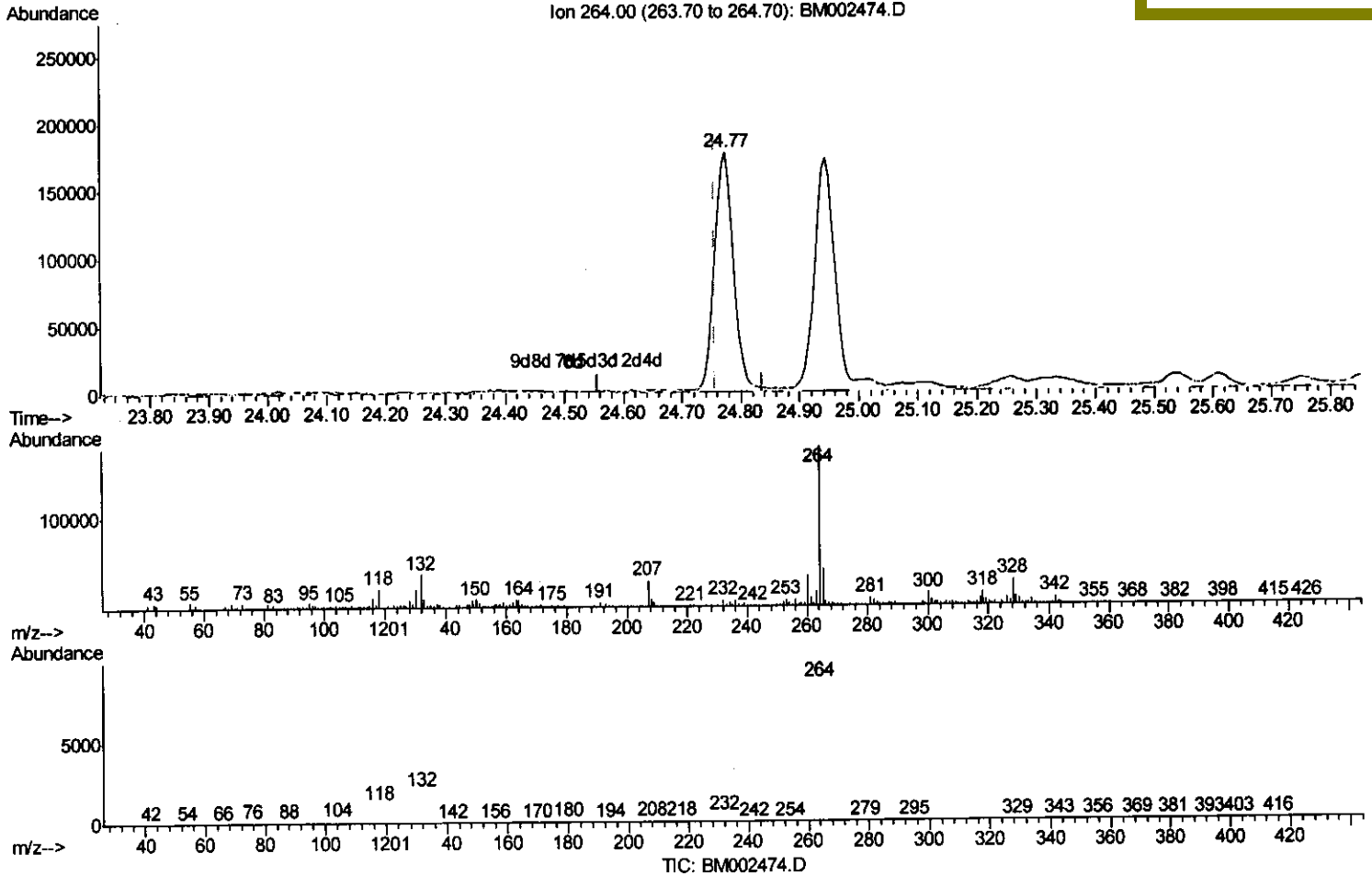
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



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

24.774min (+0.018) 18.61ng/ui m *U.M*
 response 398744 *8/19/15*

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	21.36
118.00	11.60	12.16
0.00	0.00	0.00

Quantitation Report (Qedit)

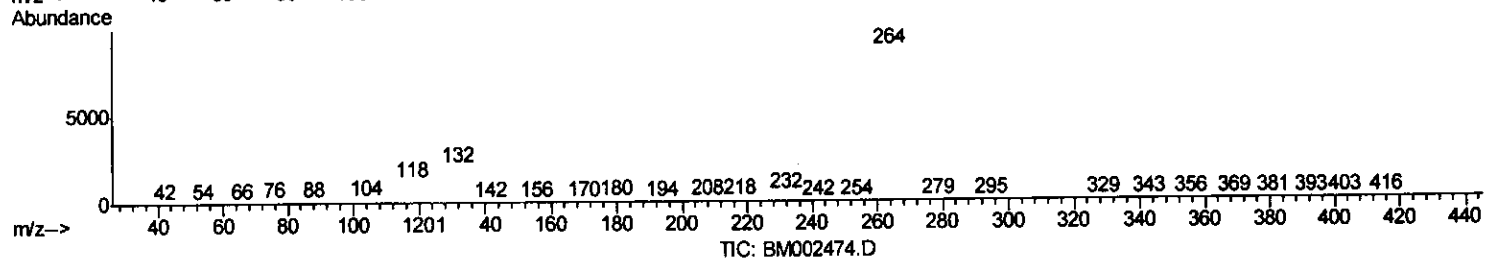
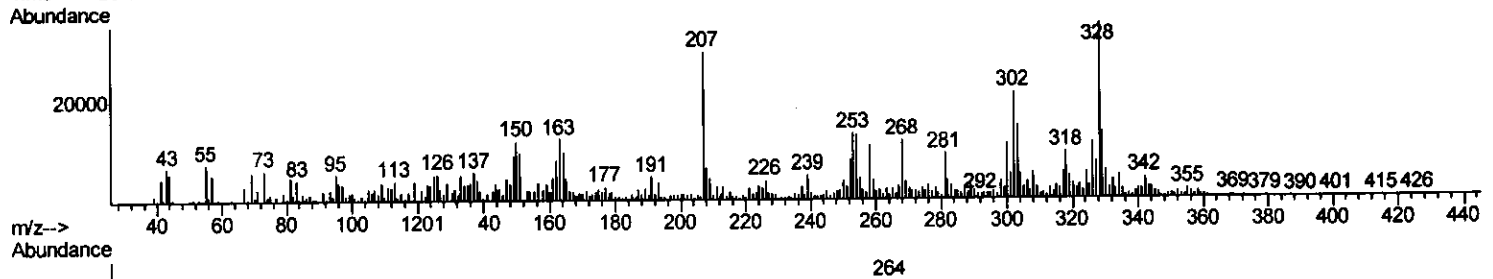
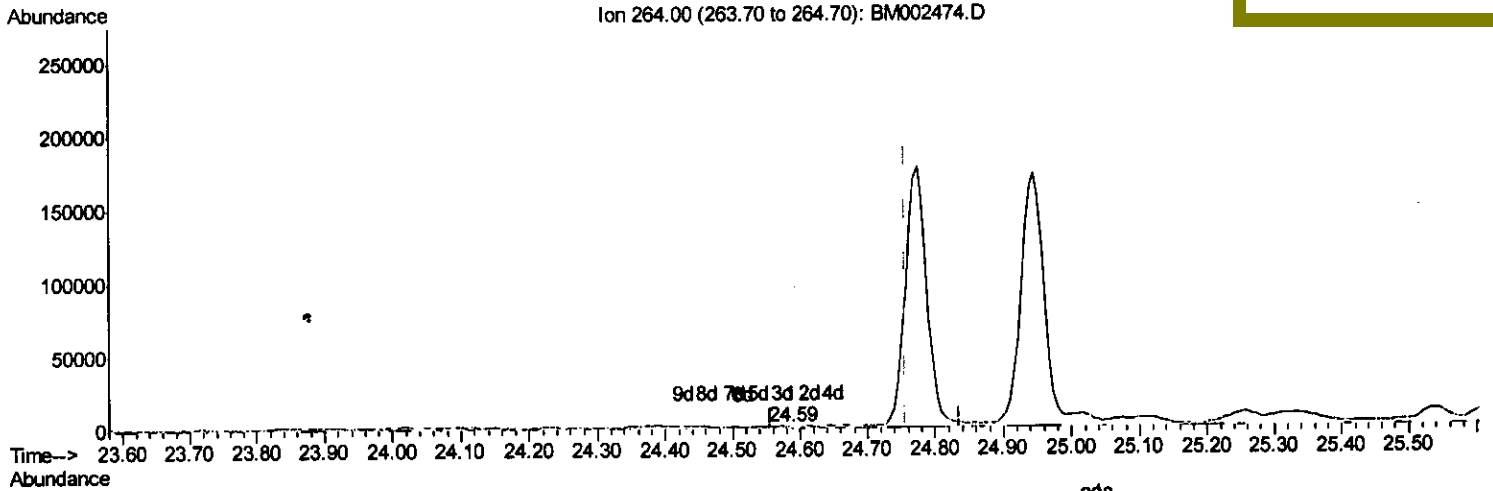
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



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

24.586min (-0.171) 0.01ng/ul

response 170

Ion	Exp%	Act%
264.00	100	100
132.00	20.40	110.61#
118.00	11.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

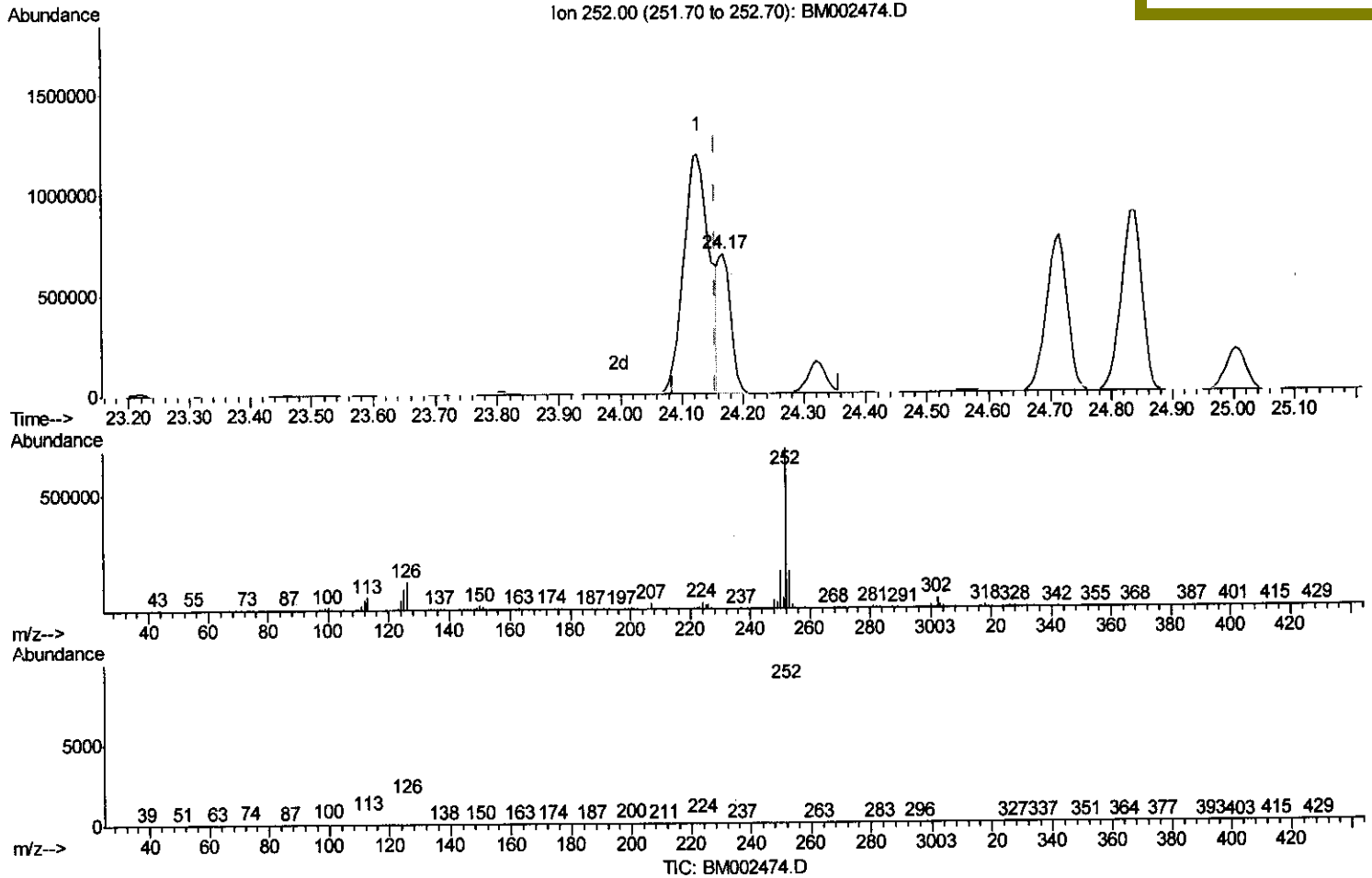
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



(24) Benzo(k)fluoranthene

24.168min (+0.012) 41.96ng/ul m U.M

response 980506

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	23.05
125.00	12.30	13.28
0.00	0.00	0.00

8/19/15

Quantitation Report (Qedit)

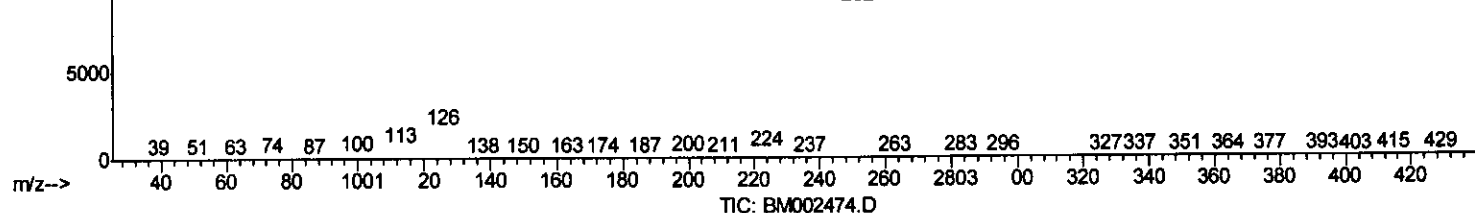
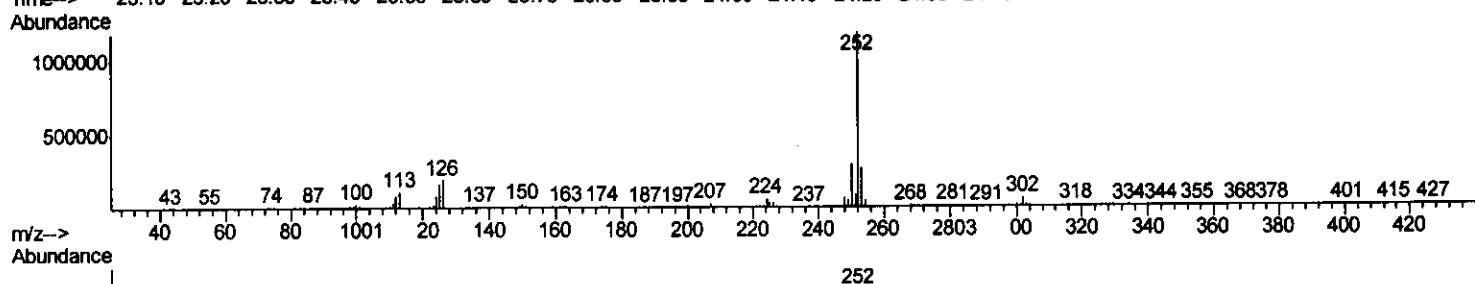
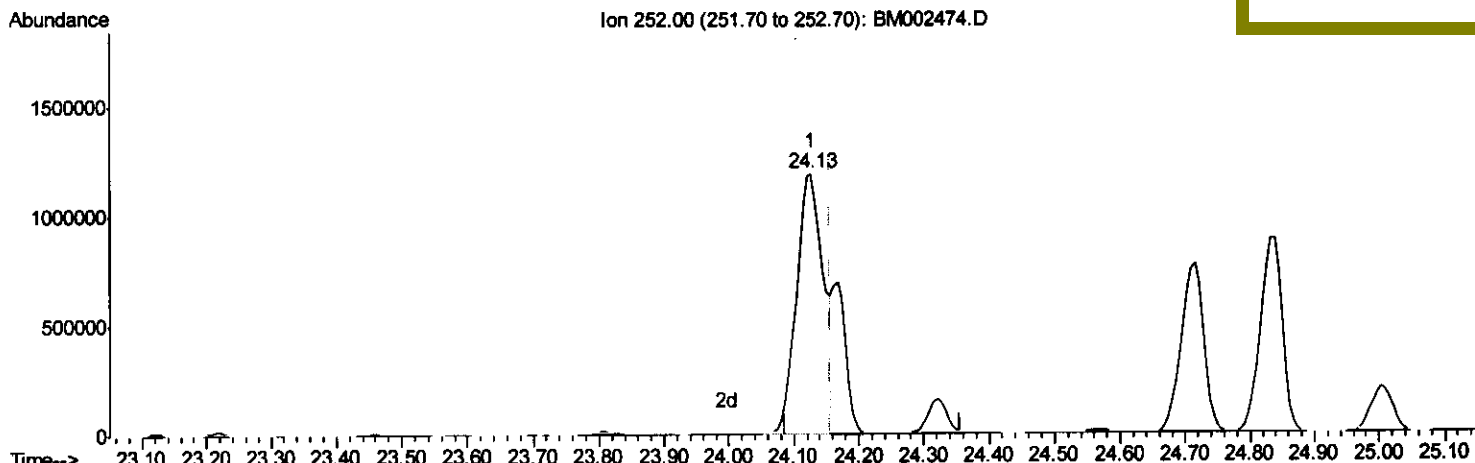
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



(24) Benzo(k)fluoranthene

24.127min (-0.029) 147.76ng/ul

response 3452401

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	22.36
125.00	12.30	13.88
0.00	0.00	0.00

Quantitation Report (Qedit)

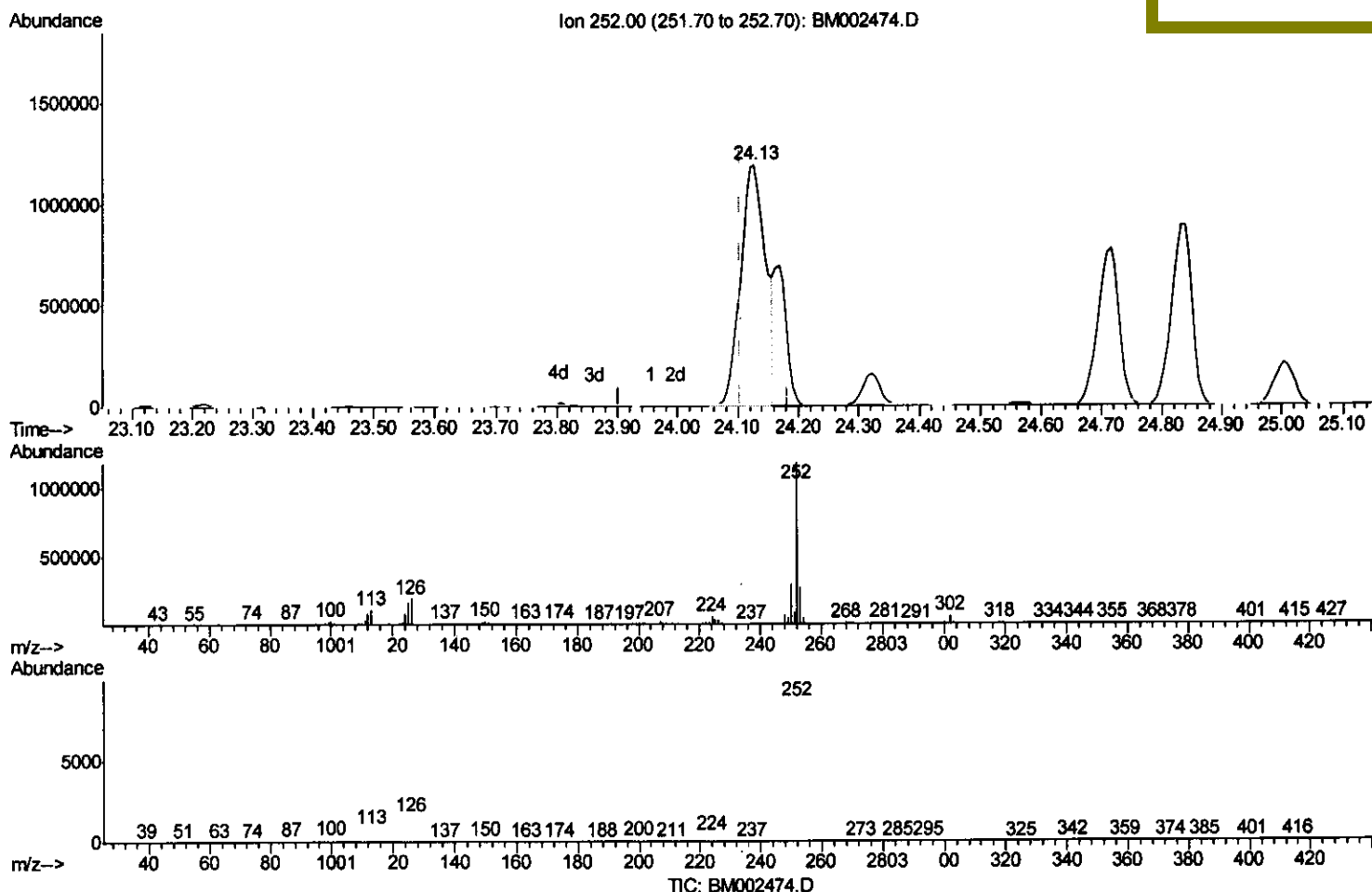
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
Data File : BM002474.D
Acq On : 18 Aug 2015 05:08
Operator : UM/IZ
Sample : G3227-24
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



(23) Benzo(b)fluoranthene

24.127min (+0.024) 140.76ng/ul m U.M

response 3470587

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	22.36
125.00	12.50	13.88
0.00	0.00	0.00

8/13/15

Quantitation Report (Qedit)

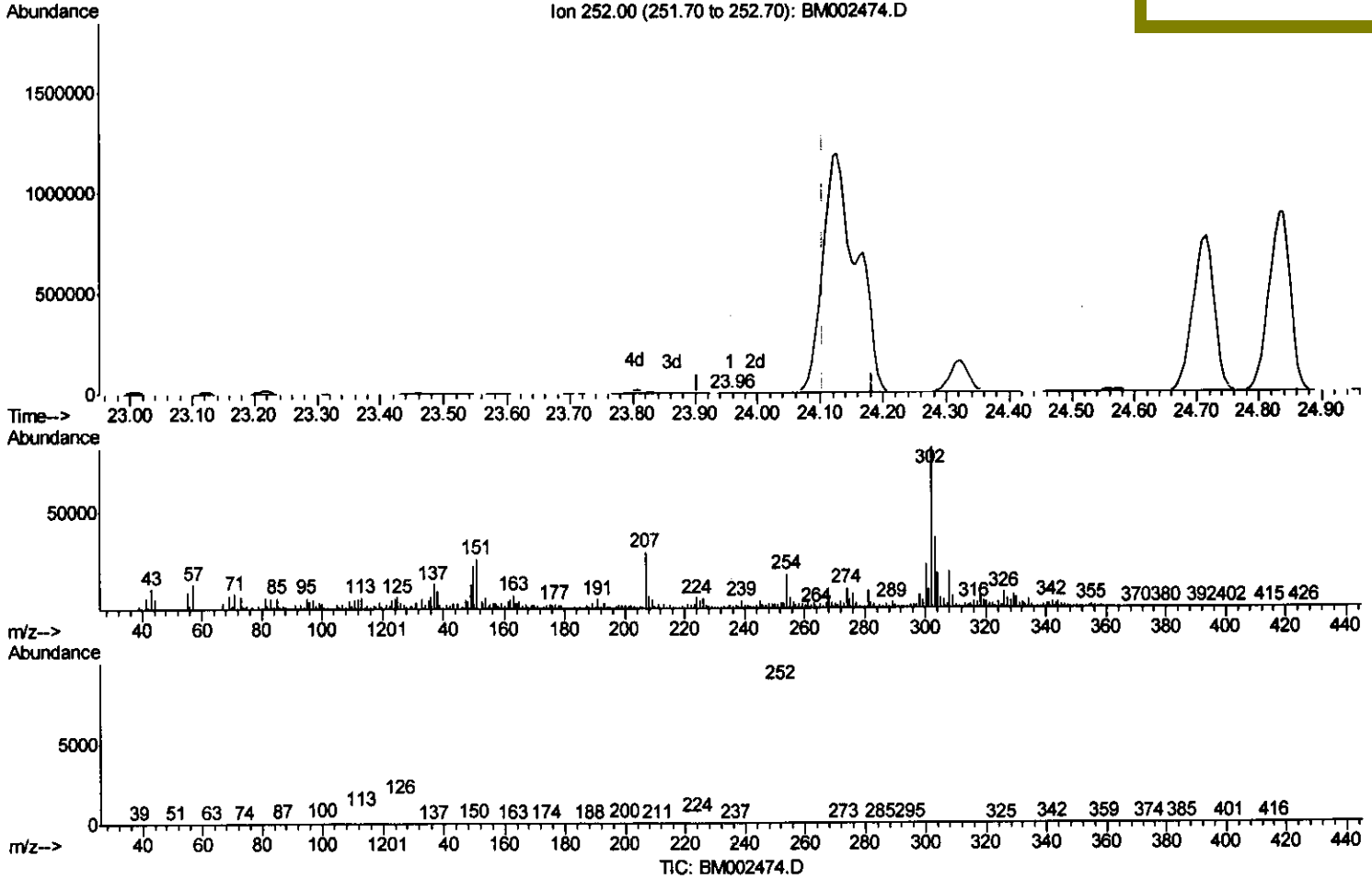
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 07:10:33 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 5:19:40 PM



(23) Benzo(b)fluoranthene
 23.956min (-0.147) 0.01ng/ul
 response 148

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	91.25#
125.00	12.50	189.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

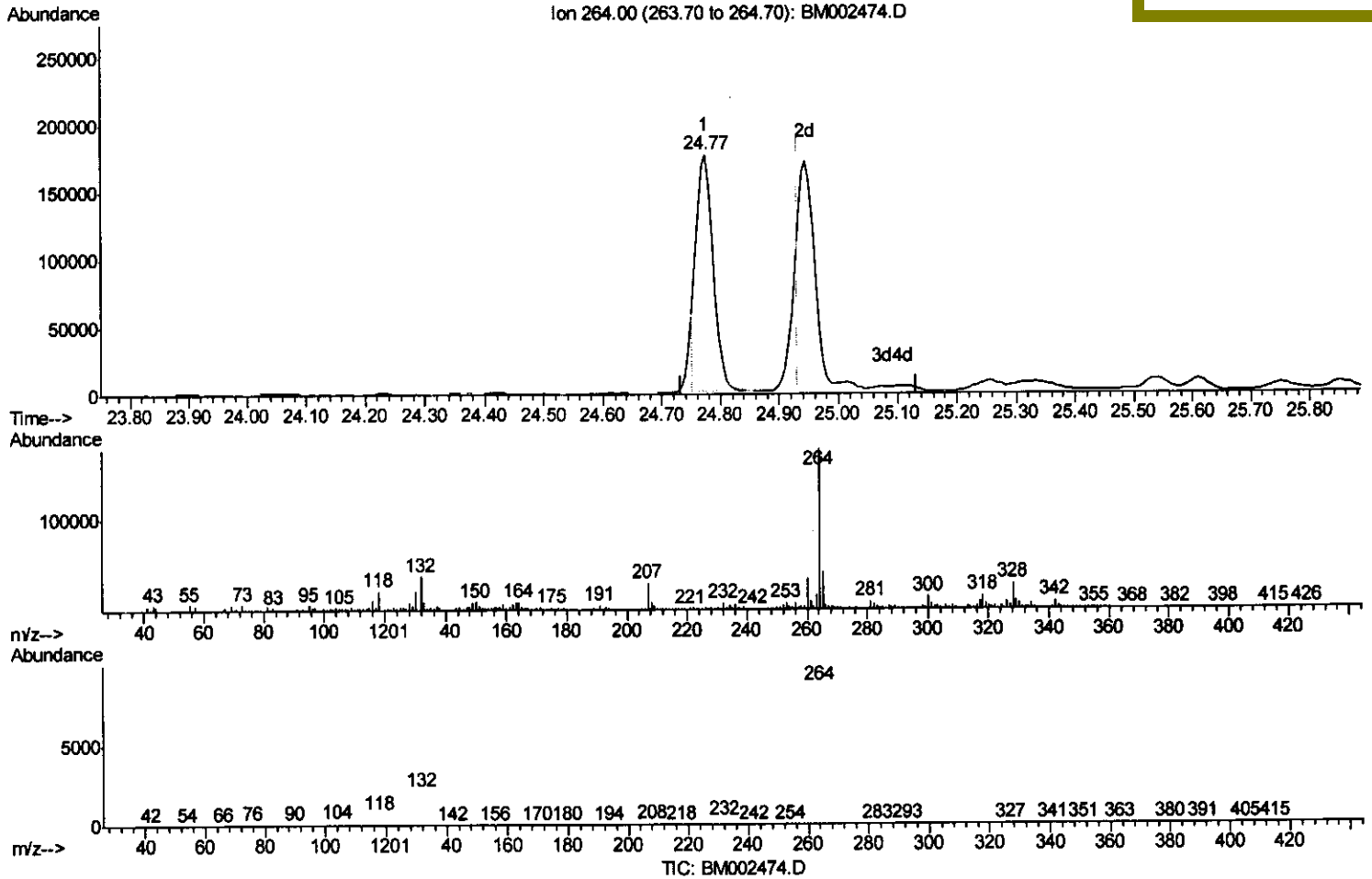
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Quant Time: Aug 18 06:57:24 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 5:19:40 PM



(22) Perylene-d12 (I)

24.774min (-0.159) 20.00ng/ul

response 352079

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	19.48
265.00	21.40	23.23
0.00	0.00	0.00

Quantitation Report (Qedit)

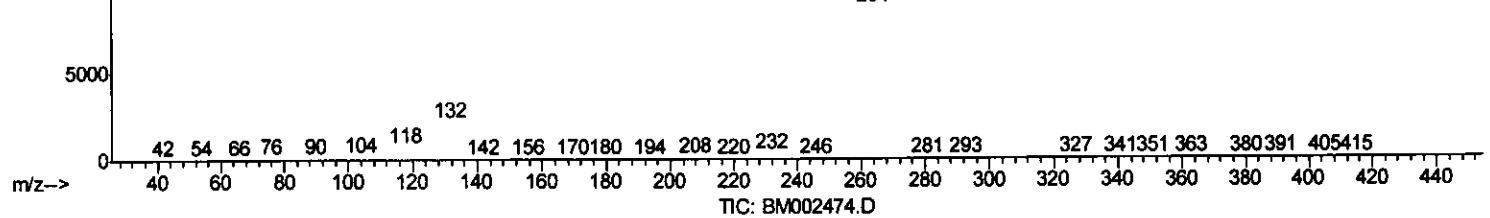
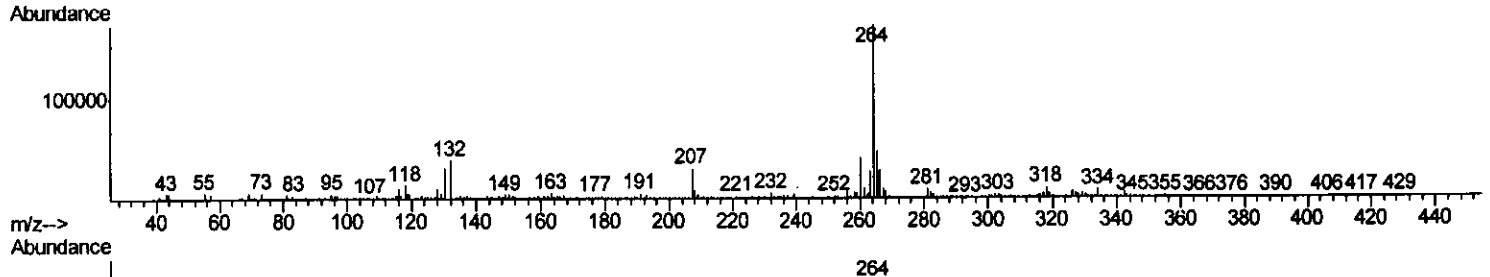
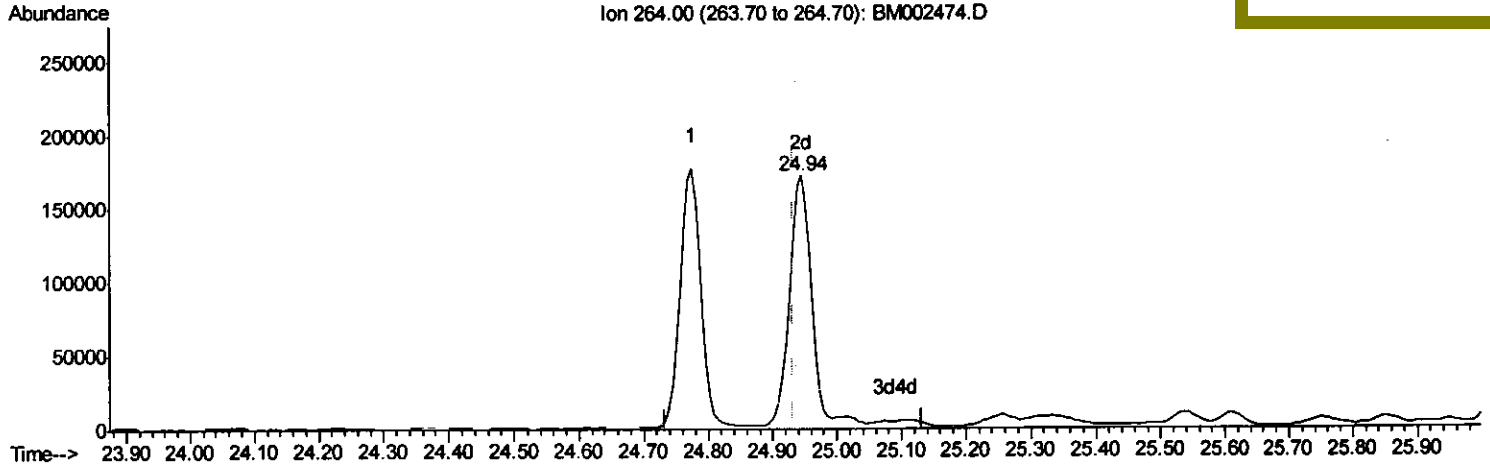
Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9DE3

Manual Integrations
 APPROVED

MMDadoda
 8/18/2015 5:19:40 PM

Quant Time: Aug 18 06:57:24 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



(22) Perylene-d12 (I)

24.944min (+0.012) 20.00ng/ul m U.M

response 407838

8/19/15

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	23.33
265.00	21.40	27.51#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\
 Data File : BM002474.D
 Acq On : 18 Aug 2015 05:08
 Operator : UM/IZ
 Sample : G3227-24
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sample ID :
 D9DE3

Quant Time: Aug 18 07:16:33 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 5:19:40 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.88	152	134726	20.00	ng/ul	0.00
2) Naphthalene-d8	11.75	136	613071	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.46	164	315509	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.17	188	579546	20.00	ng/ul	0.00
17) Chrysene-d12	22.26	240	388555	20.00	ng/ul	0.00
22) Perylene-d12	24.94	264	407838m	20.00	ng/ul	0.01
System Monitoring Compounds						
7) Acenaphthylene-d8	15.17	160	853608	26.46	ng/ul	0.00
10) Fluorene-d10	16.43	176	532678	23.51	ng/ul	0.00
14) Anthracene-d10	18.27	188	696406	24.91	ng/ul	0.00
18) Pvrene-d10	20.49	212	506431	29.40	ng/ul	0.00
25) Benzo(a)pyrene-d12	24.77	264	398744m	18.61	ng/ul	0.02
Target Compounds						
					Ovalue	
3) Naphthalene	11.80	128	56055	1.79	ng/ul	98
4) 2-Methylnaphthalene	13.35	142	34540	1.47	ng/ul	95
5) 1-Methylnaphthalene	13.56	142	26833	1.16	ng/ul	99
9) Acenaphthene	15.52	153	24726	1.11	ng/ul	94
11) Fluorene	16.49	166	27384	1.07	ng/ul#	96
13) Phenanthrene	18.22	178	435220	13.00	ng/ul	99
15) Anthracene	18.30	178	89335	2.63	ng/ul	100
16) Fluoranthene	20.16	202	1282333	33.84	ng/ul	98
19) Pyrene	20.52	202	1221108	53.65	ng/ul	100
20) Benzo(a)anthracene	22.24	228	1371384	59.02	ng/ul	99
21) Chrysene	22.30	228	1583145	72.85	ng/ul	97
23) Benzo(b)fluoranthene	24.13	252	3470587m	140.76	ng/ul	
24) Benzo(k)fluoranthene	24.17	252	980506m	41.96	ng/ul	
26) Benzo(a)pvrene	24.83	252	2094881m	88.96	ng/ul	
27) Indeno(1,2,3-cd)pvrene	27.82	276	1992579m	73.57	ng/ul	
28) Dibenzo(a,h)anthracene	27.80	278	690713m	30.51	ng/ul	
29) Benzo(a,h,i)perylene	28.71	276	1767296m	78.39	ng/ul	

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