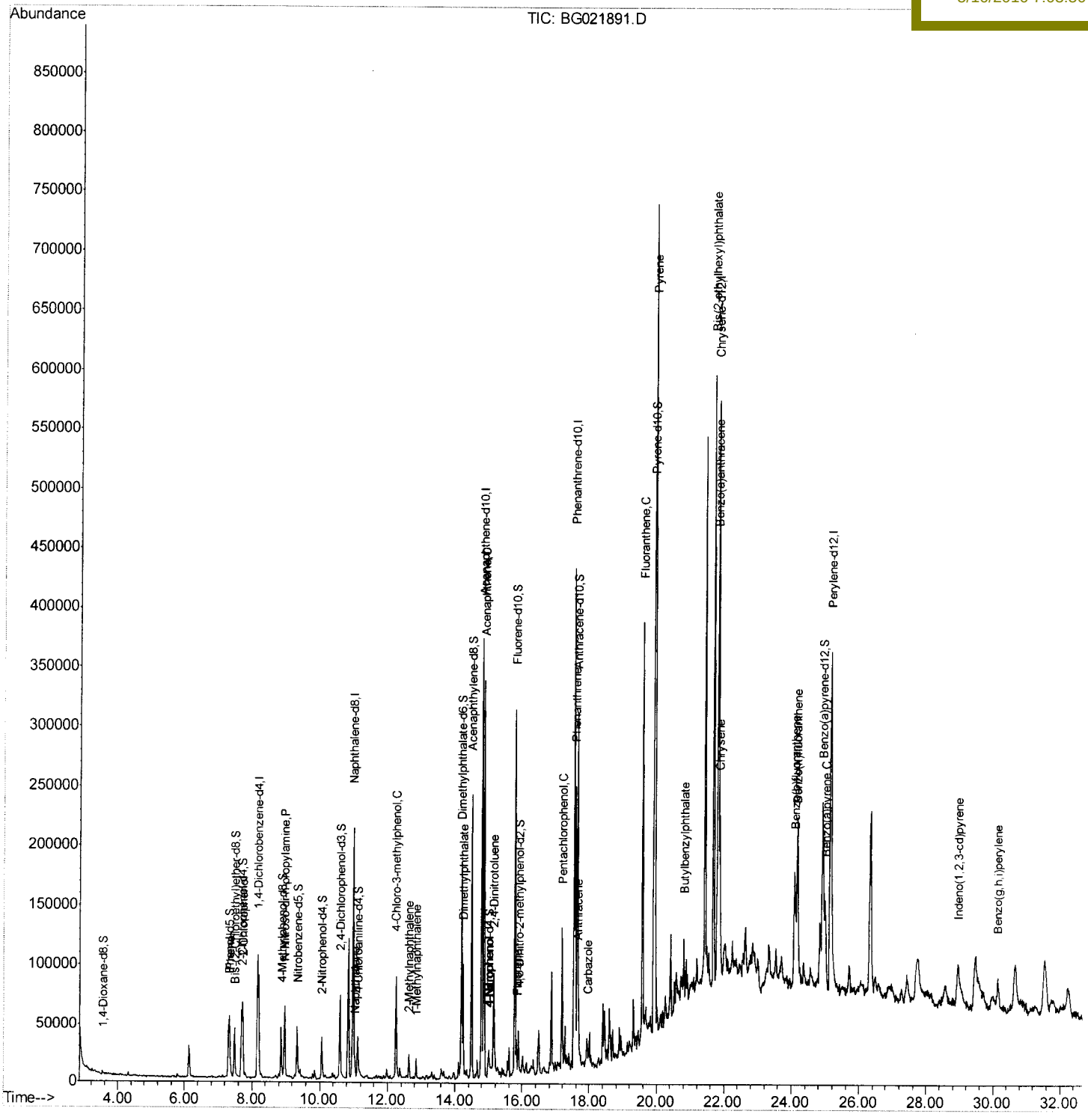
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 02:04:01 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM



Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
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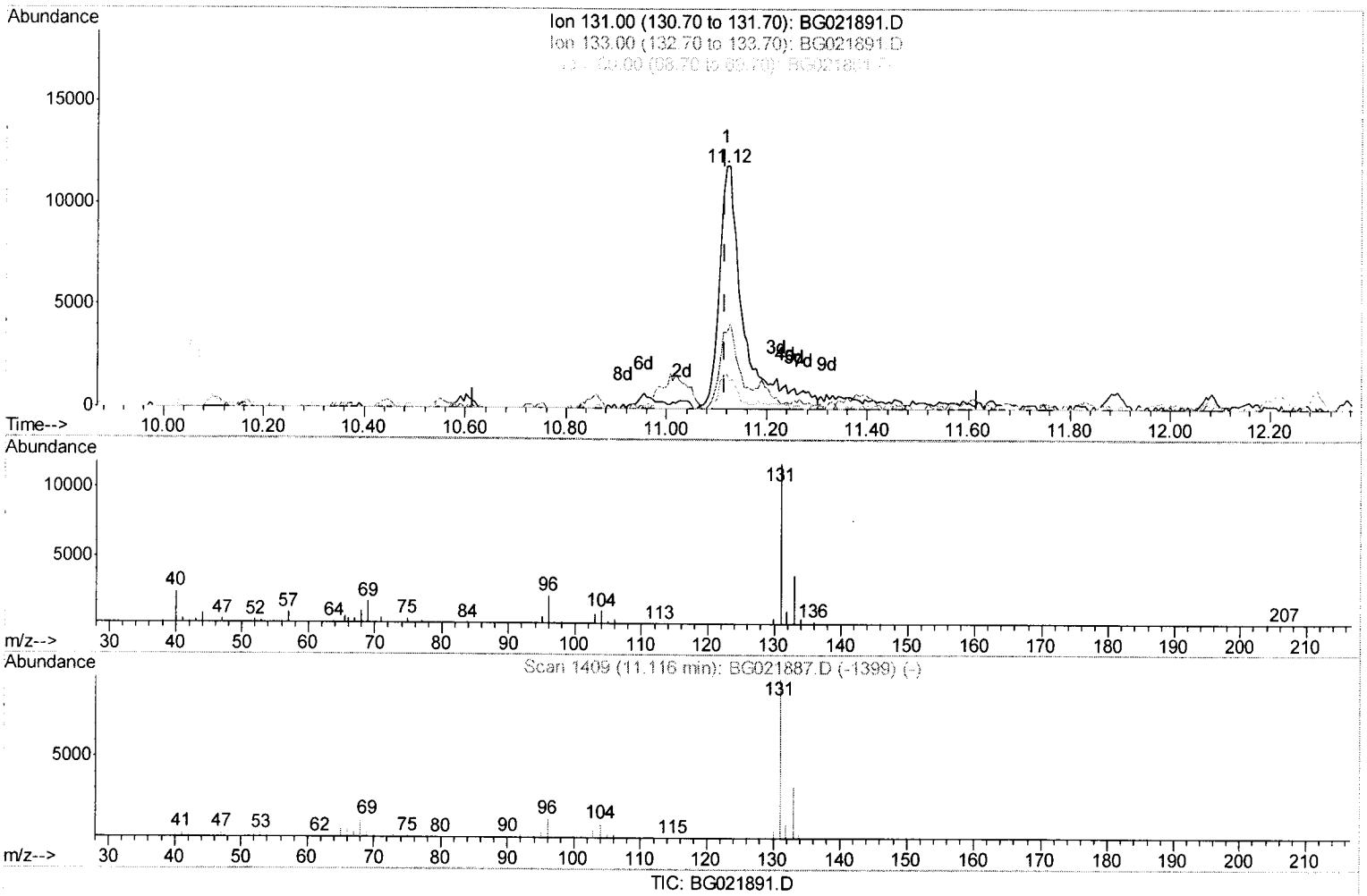

TIC: BG021891.D

(29) 4-Chloroaniline-d4 (S)

11.119min (+0.003) 13.37ng/ul m U.M 05/17/16

response 40481

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	31.27
69.00	23.00	14.54#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
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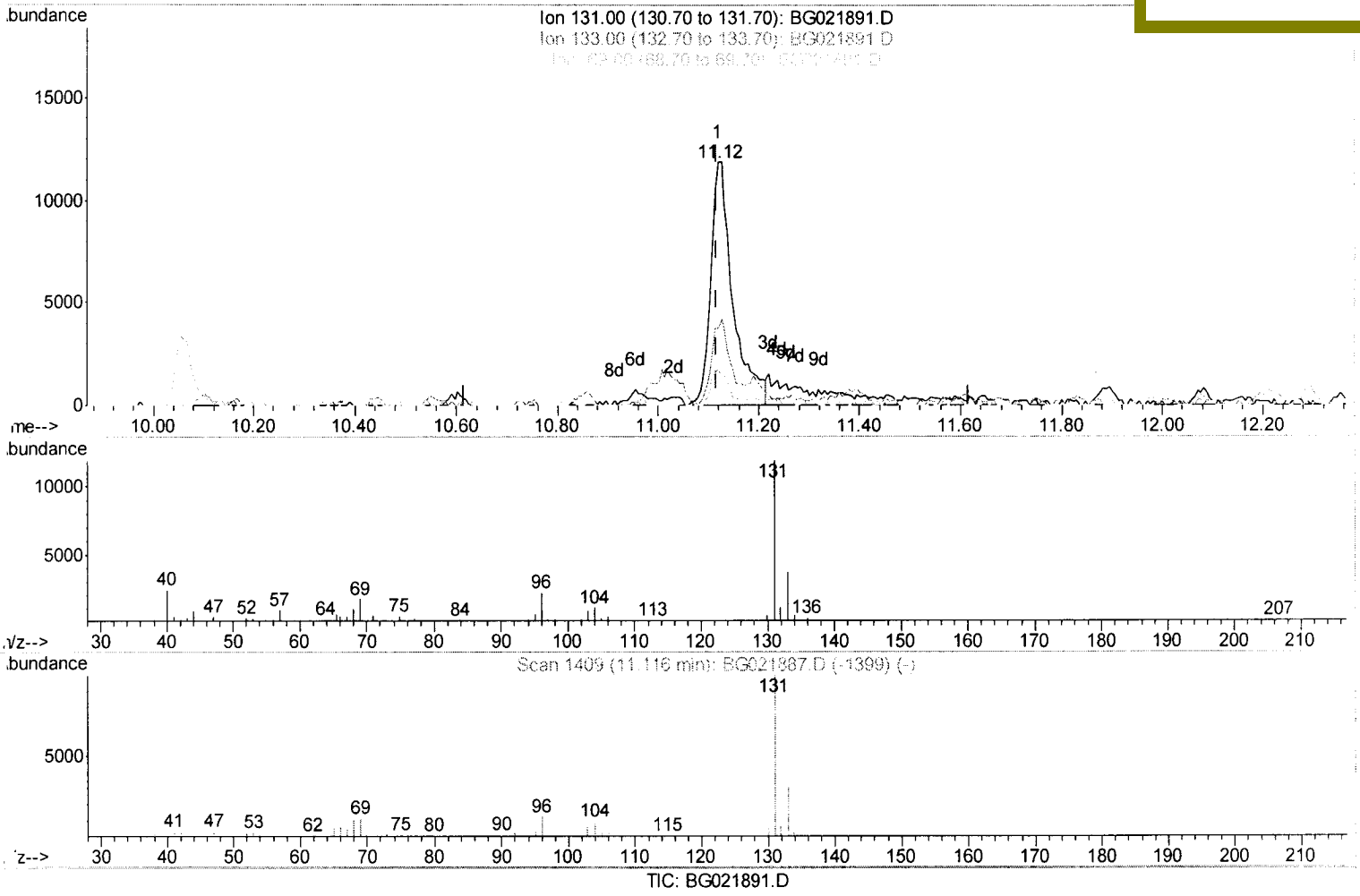

TIC: BG021891.D

(29) 4-Chloroaniline-d4 (S)

11.119min (+0.003) 11.84ng/ul

response 35858

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	31.27
69.00	23.00	14.54#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
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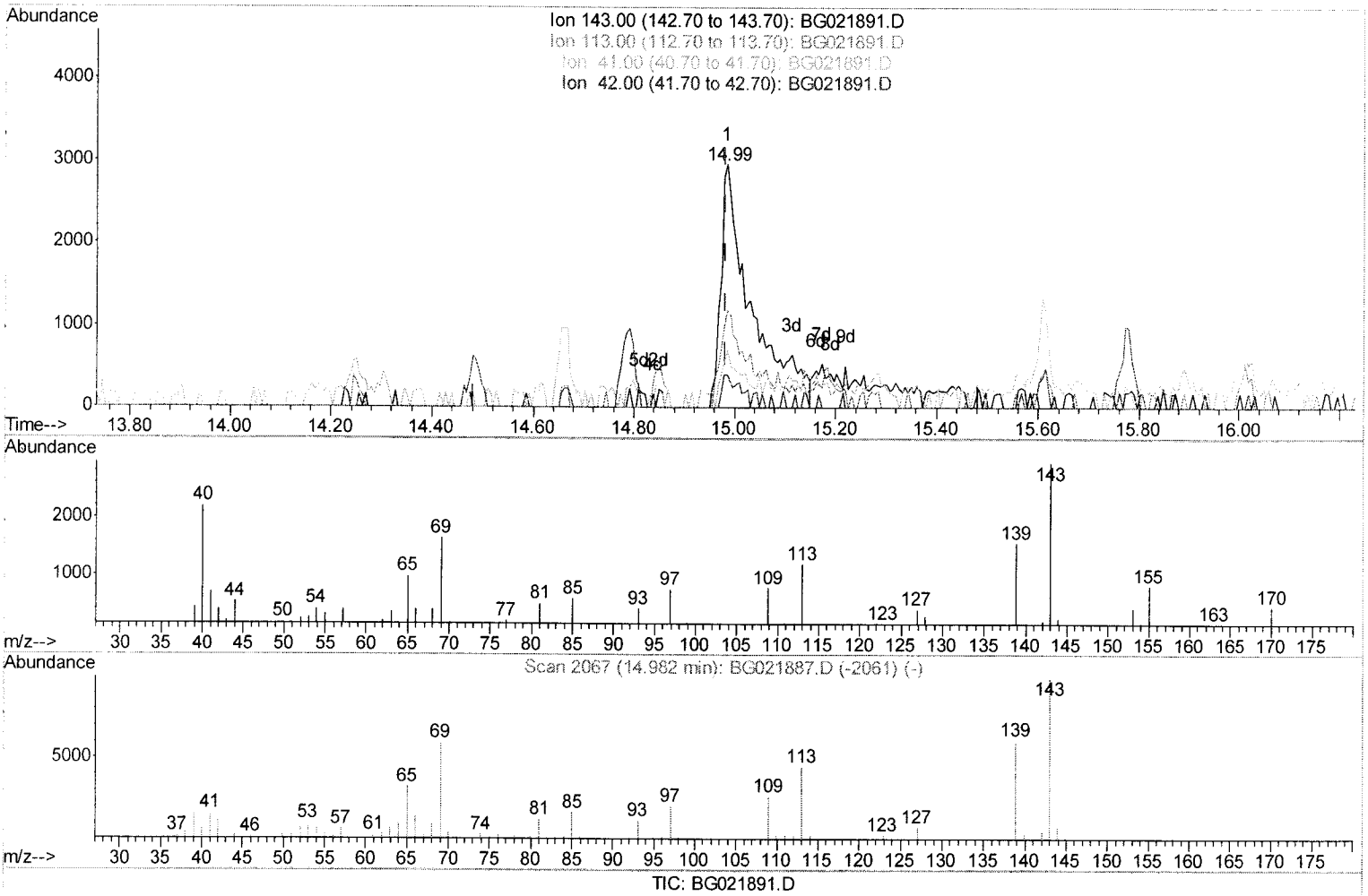

TIC: BG021891.D

(52) 4-Nitrophenol-d4 (S)

14.985min (+0.003) 7.17ng/ul m U.M 05/17/16

response 12614

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	40.63#
41.00	49.70	23.78#
42.00	33.70	13.67#

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
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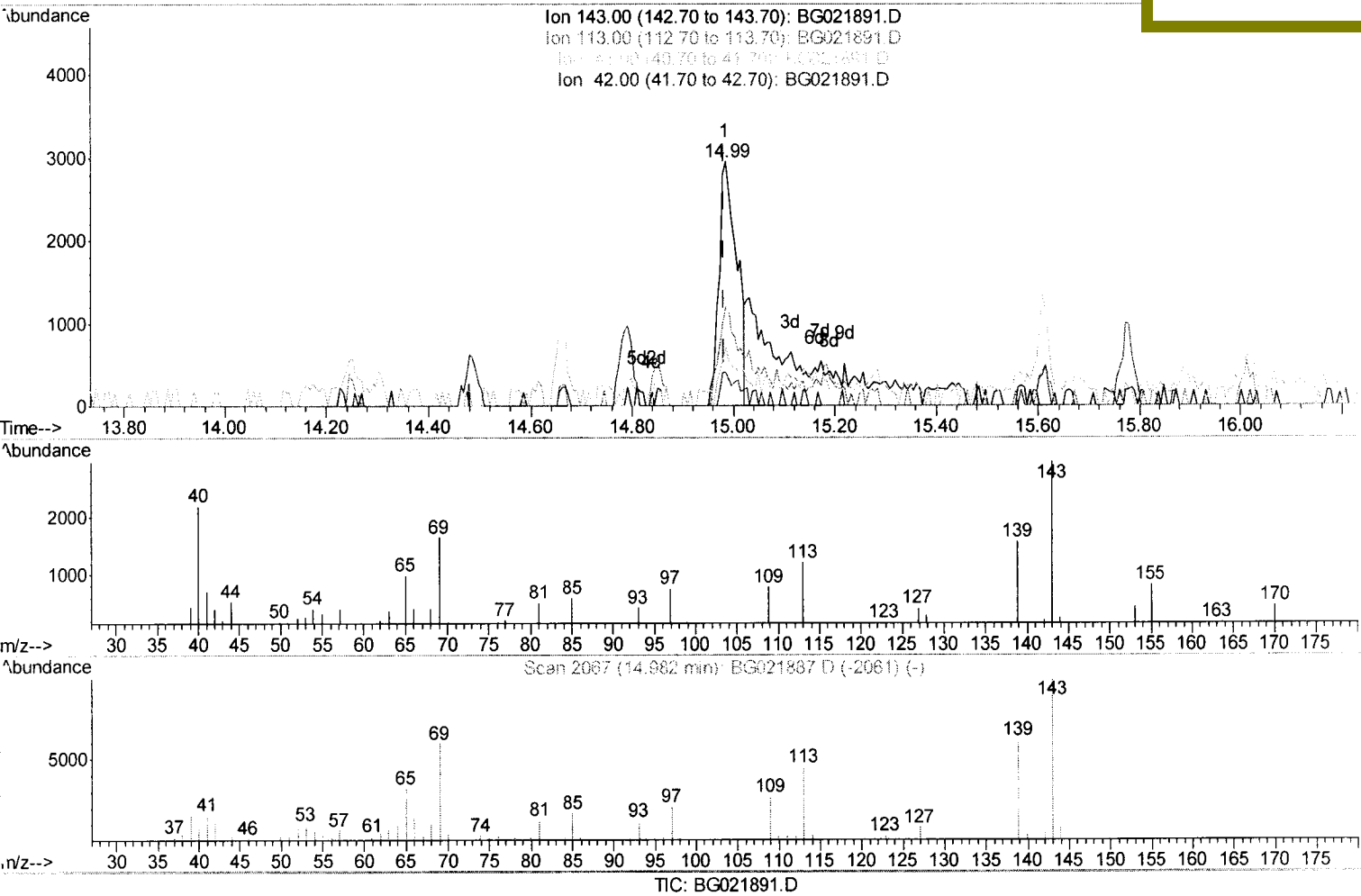

TIC: BG021891.D

(52) 4-Nitrophenol-d4 (S)

14.985min (+0.003) 4.12ng/ul

response 7245

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	40.63#
41.00	49.70	23.78#
42.00	33.70	13.67#

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
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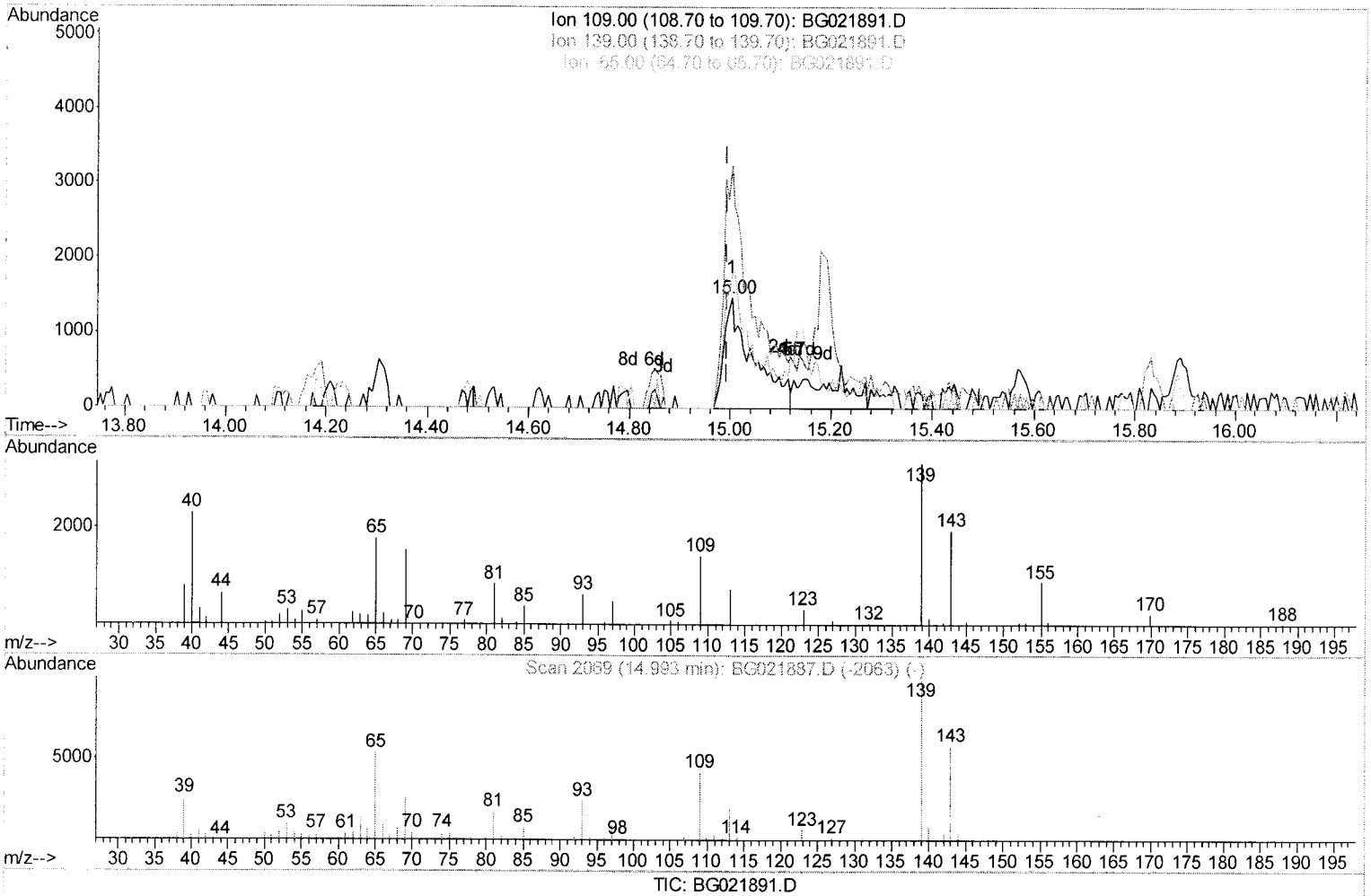

TIC: BG021891.D

(53) 4-Nitrophenol

15.003min (+0.009) 7.41ng/ul m U,M
05/17/16

response 5938

Ion	Exp%	Act%
109.00	100	100
139.00	94.90	220.50#
65.00	124.80	121.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
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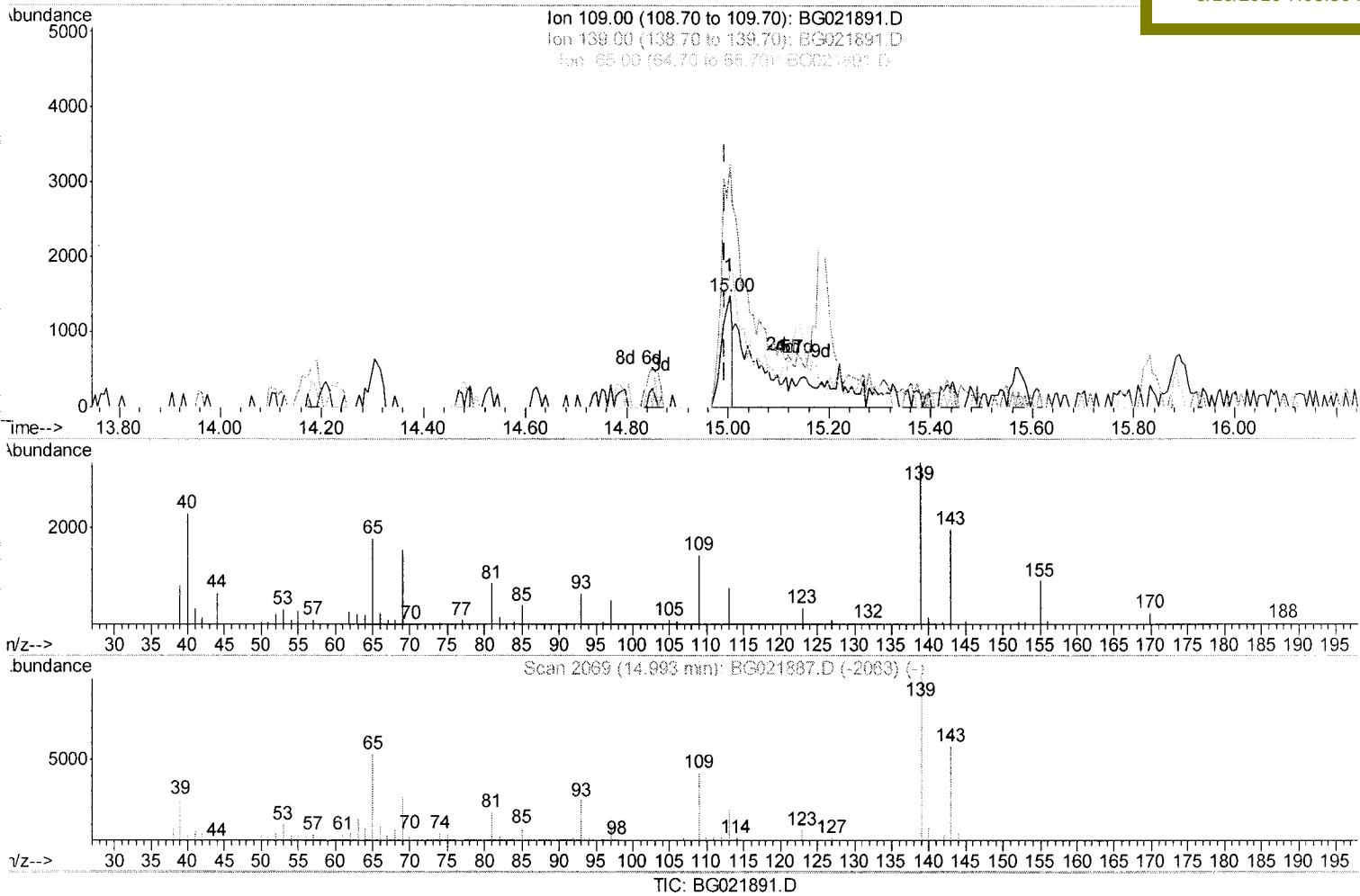

TIC: BG021891.D

(53) 4-Nitrophenol

15.003min (+0.009) 2.72ng/ul

response 2182

Ion	Exp%	Act%
109.00	100	100
139.00	94.90	220.50#
65.00	124.80	121.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
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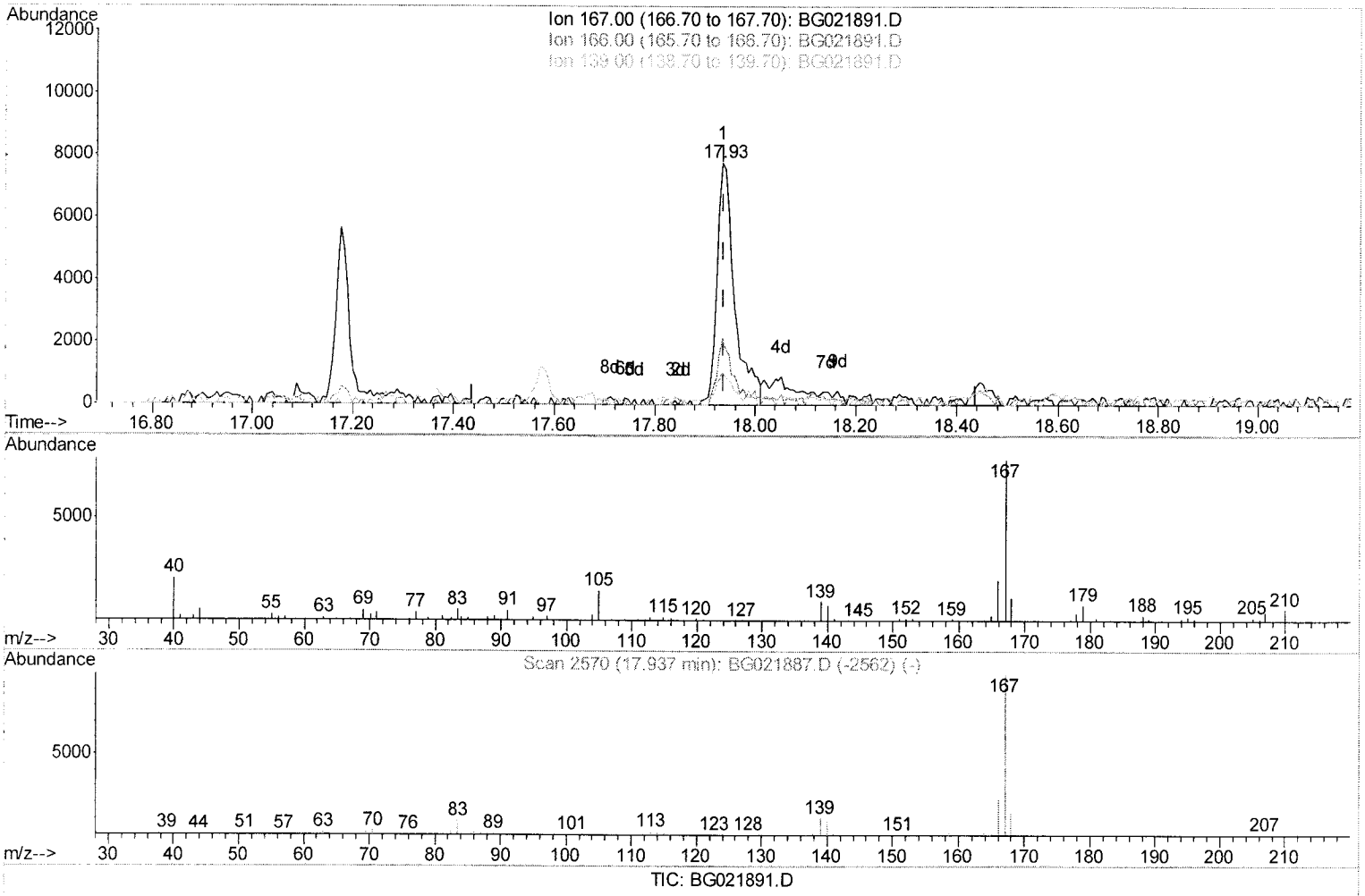

TIC: BG021891.D

(73) Carbazole

17.935min (-0.002) 1.29ng/ul m U.M 05/17/16

response 18978

Ion	Exp%	Act%
167.00	100	100
166.00	23.70	26.94
139.00	15.30	13.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
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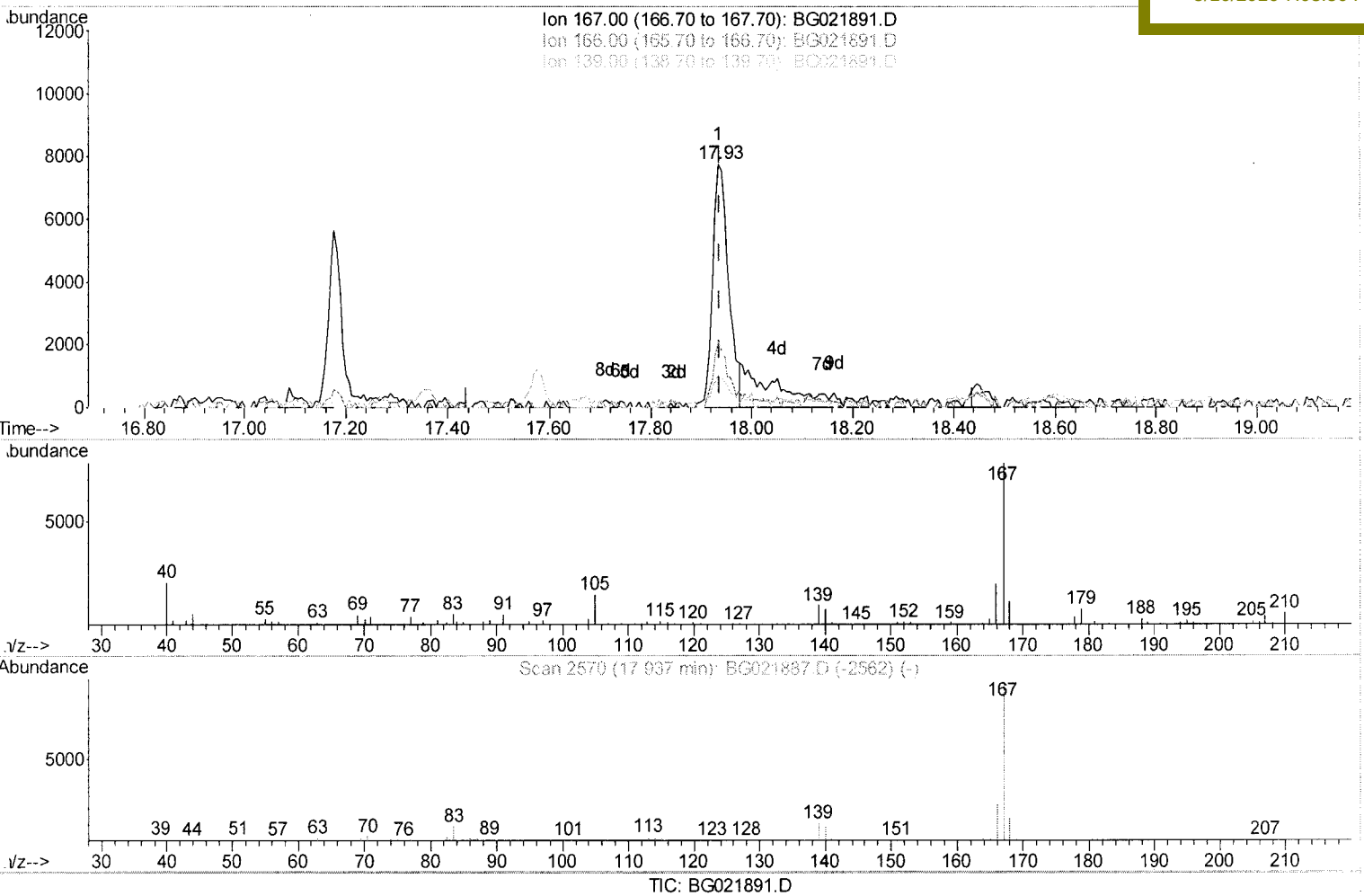


TIC: BG021891.D

(73) Carbazole

17.935min (-0.002) 1.15ng/ul

response 16839

Ion	Exp%	Act%
167.00	100	100
166.00	23.70	26.94
139.00	15.30	13.77
0.00	0.00	0.00

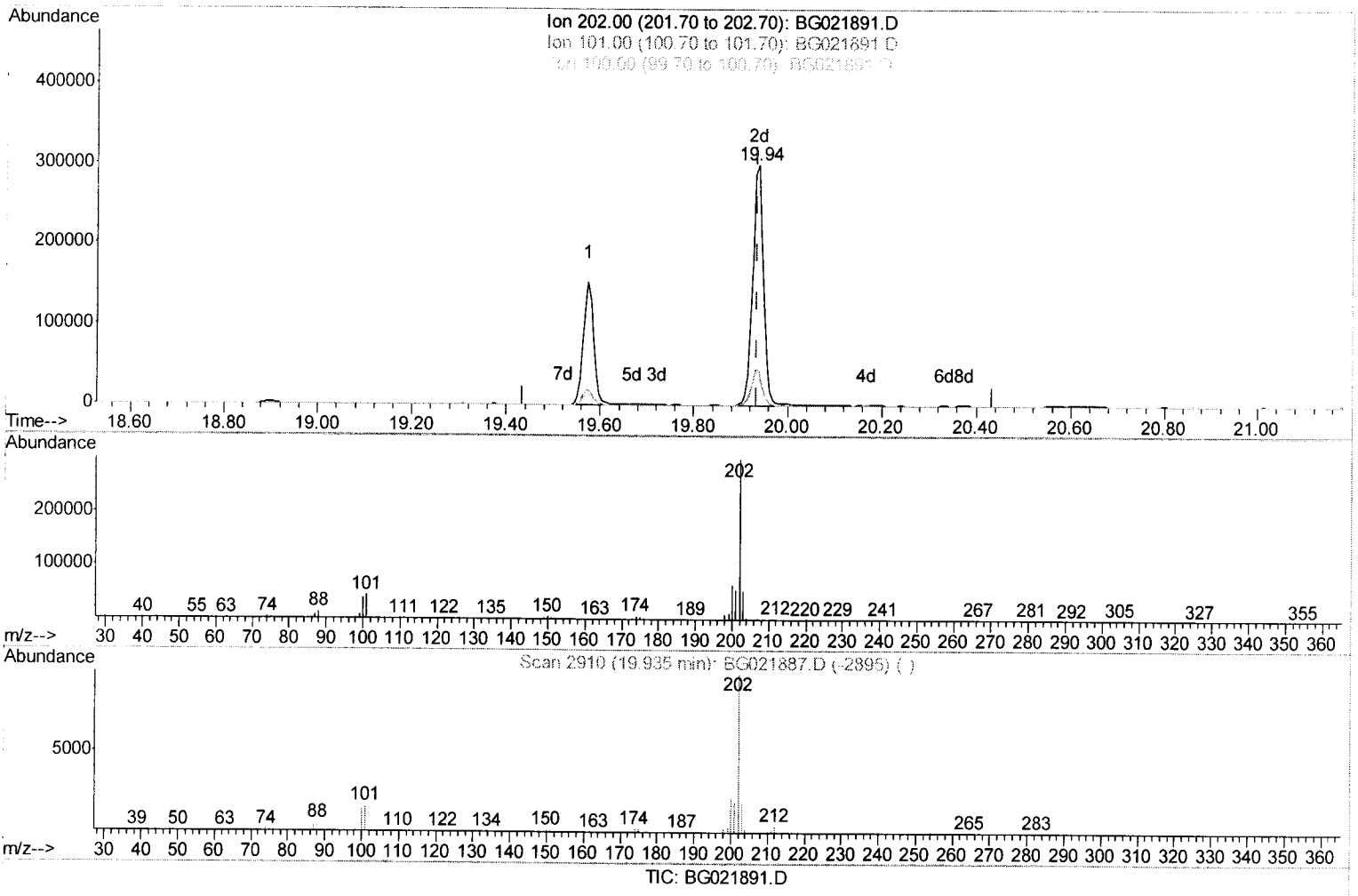
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM



TIC: BG021891.D

(78) Pyrene

19.938min (+0.003) 28.17ng/ul m U.M 05/17/16

response 483870

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	15.02#
100.00	11.60	12.99
0.00	0.00	0.00

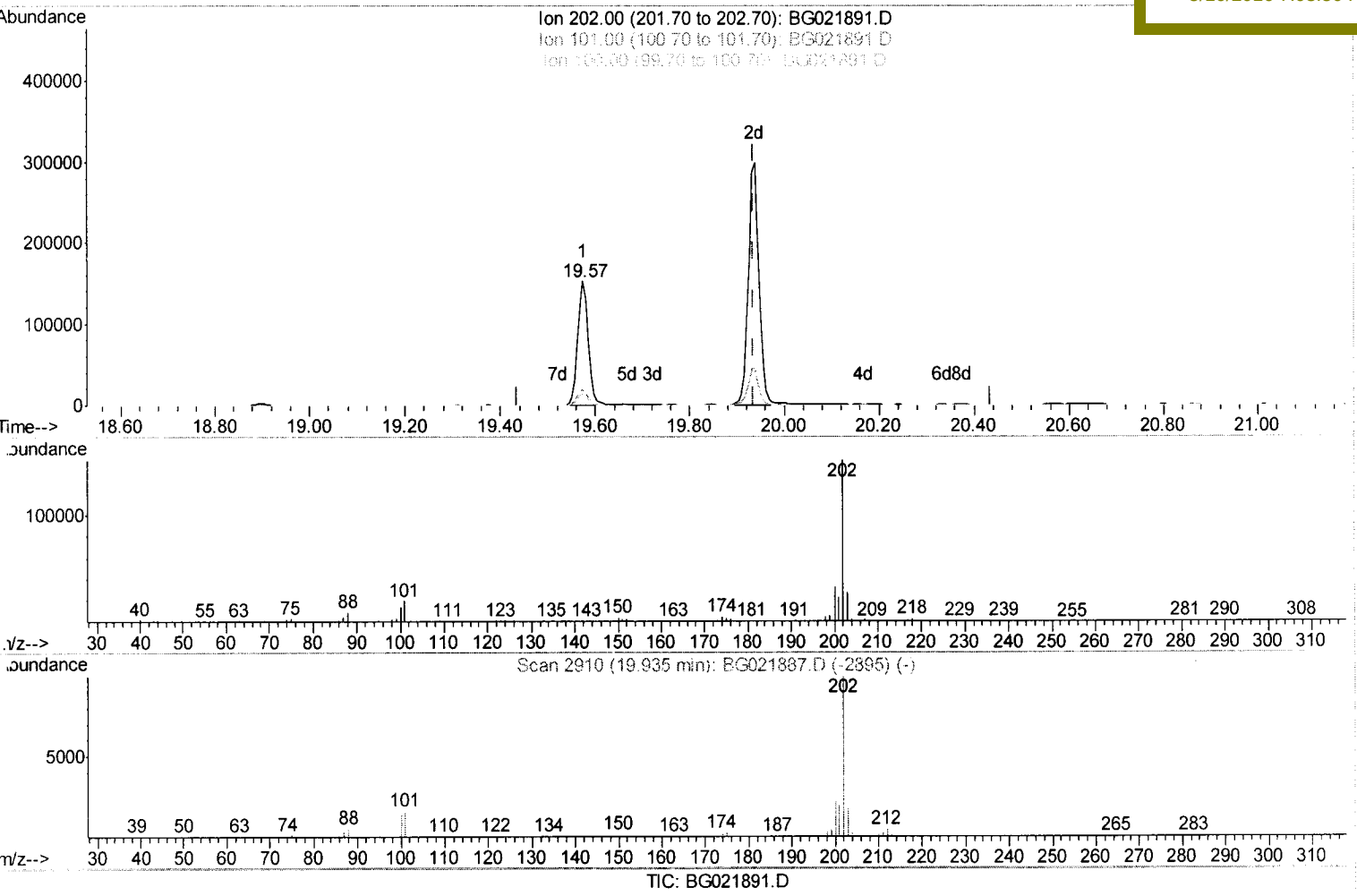
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM



(78) Pyrene

19.574min (-0.361) 13.66ng/ul

response 234519

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	12.90
100.00	11.60	9.34
0.00	0.00	0.00

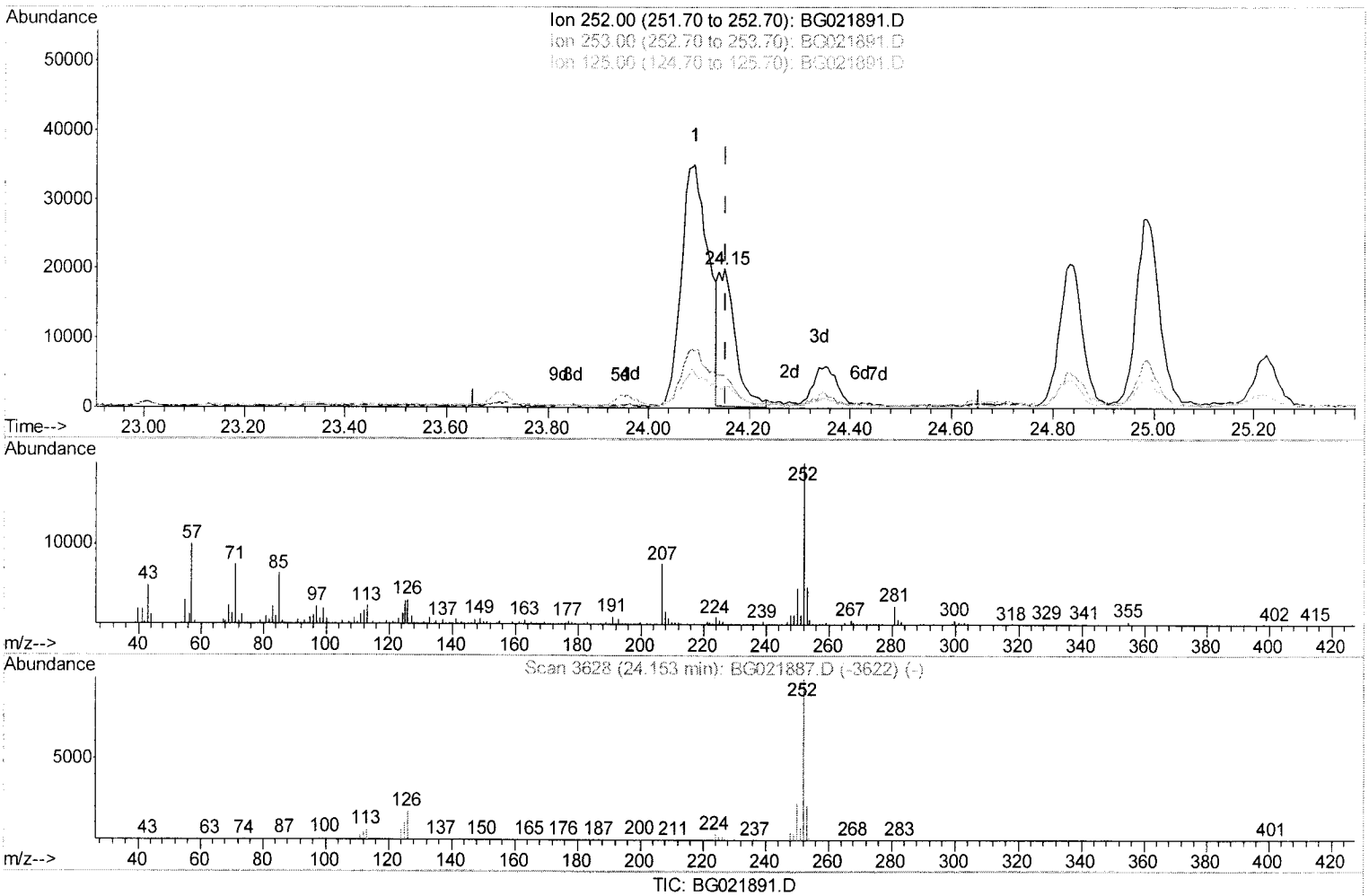
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM



TIC: BG021891.D

(87) Benzo(k)fluoranthene

24.151min (-0.002) 2.55ng/ul m U.M 05/17/16

response 46474

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.79
125.00	9.60	14.86#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
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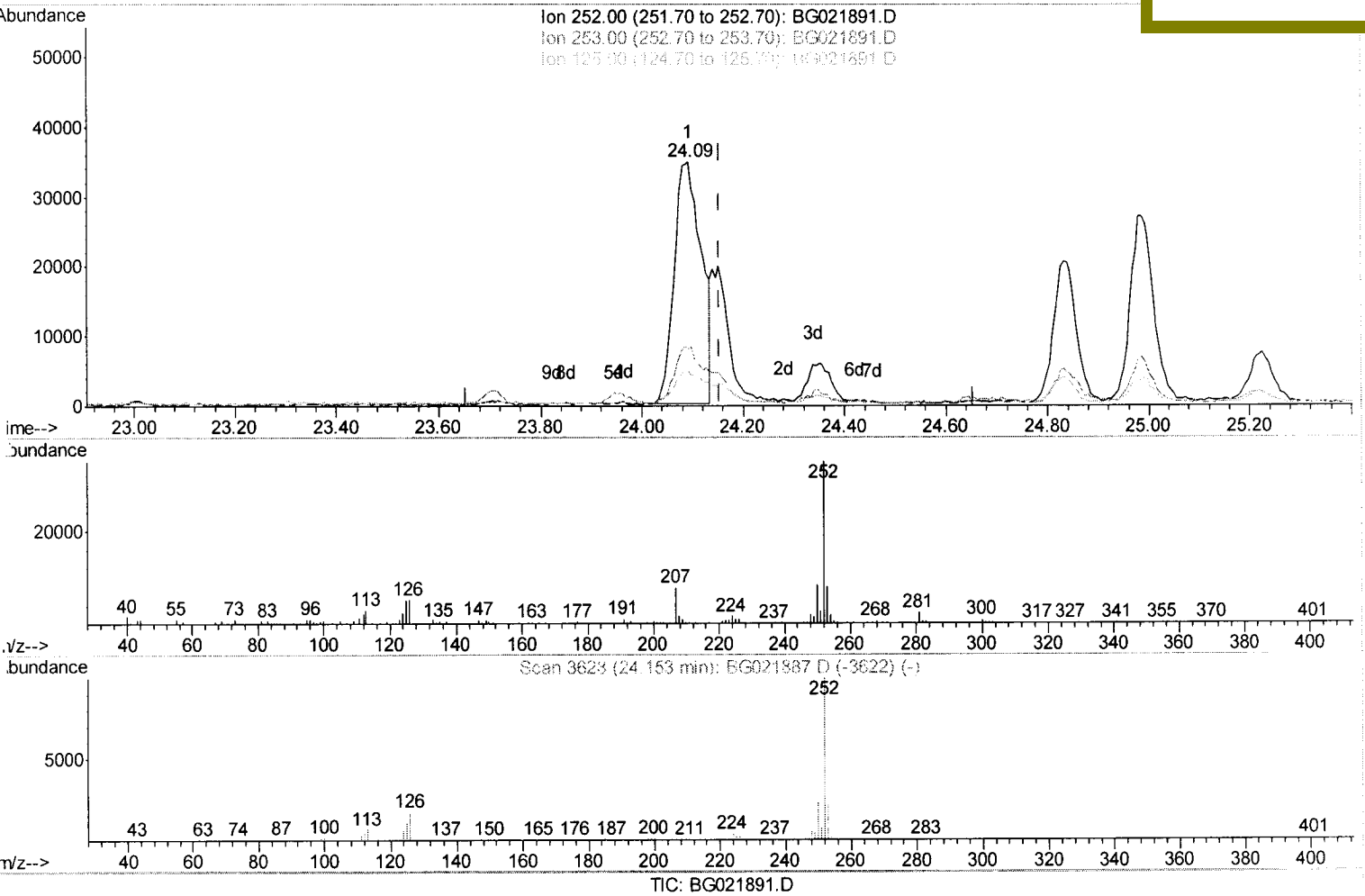


TIC: BG021891.D

(87) Benzo(k)fluoranthene

24.092min (-0.061) 7.07ng/ul

response 128782

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.05
125.00	9.60	14.62#
0.00	0.00	0.00

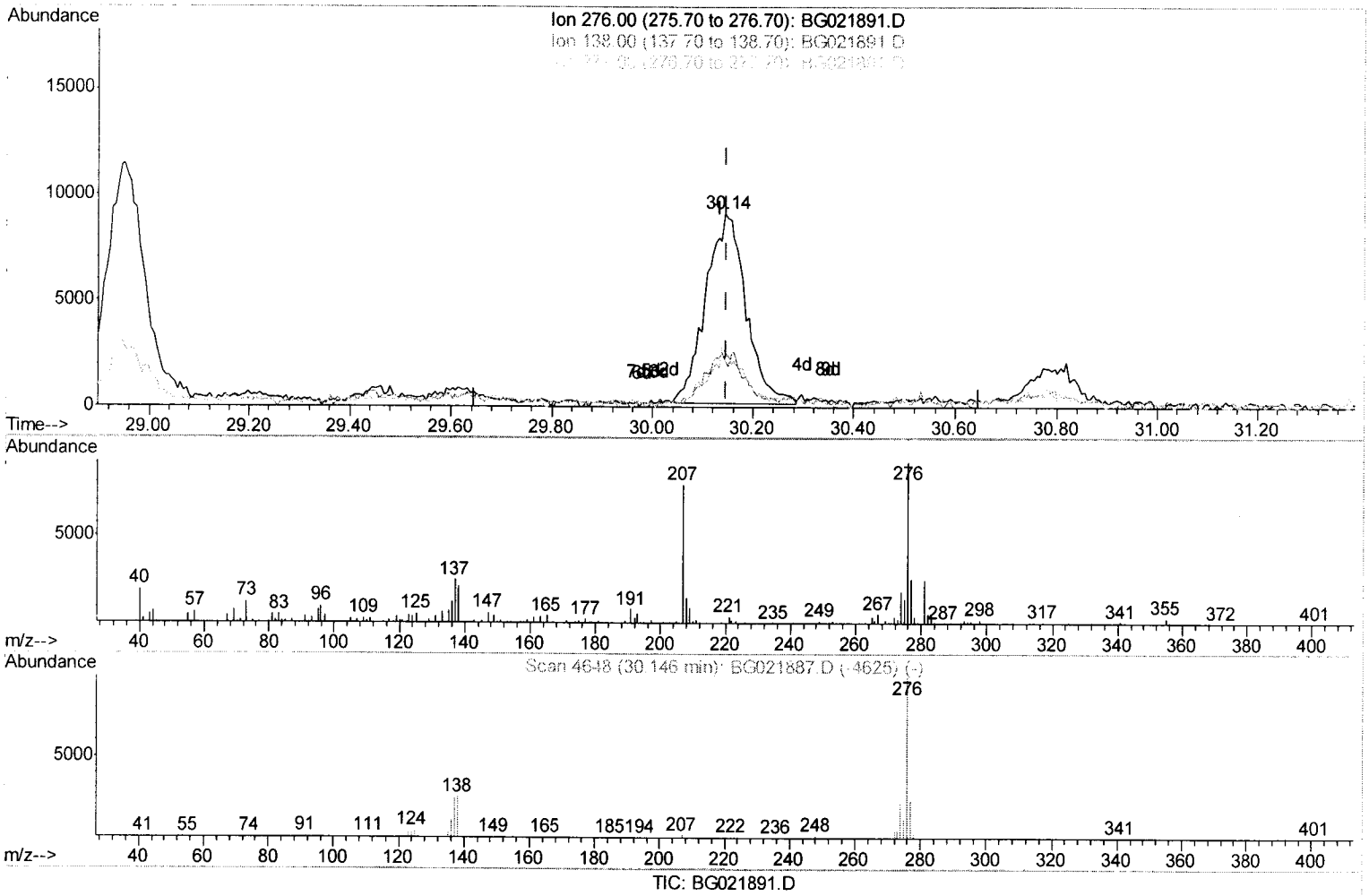
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM



TIC: BG021891.D

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

30.144min (-0.002) 2.97ng/ul m U,M 05/17/16

response 49218

Ion	Exp%	Act%
276.00	100	100
138.00	17.40	24.22#
277.00	24.70	28.49
0.00	0.00	0.00

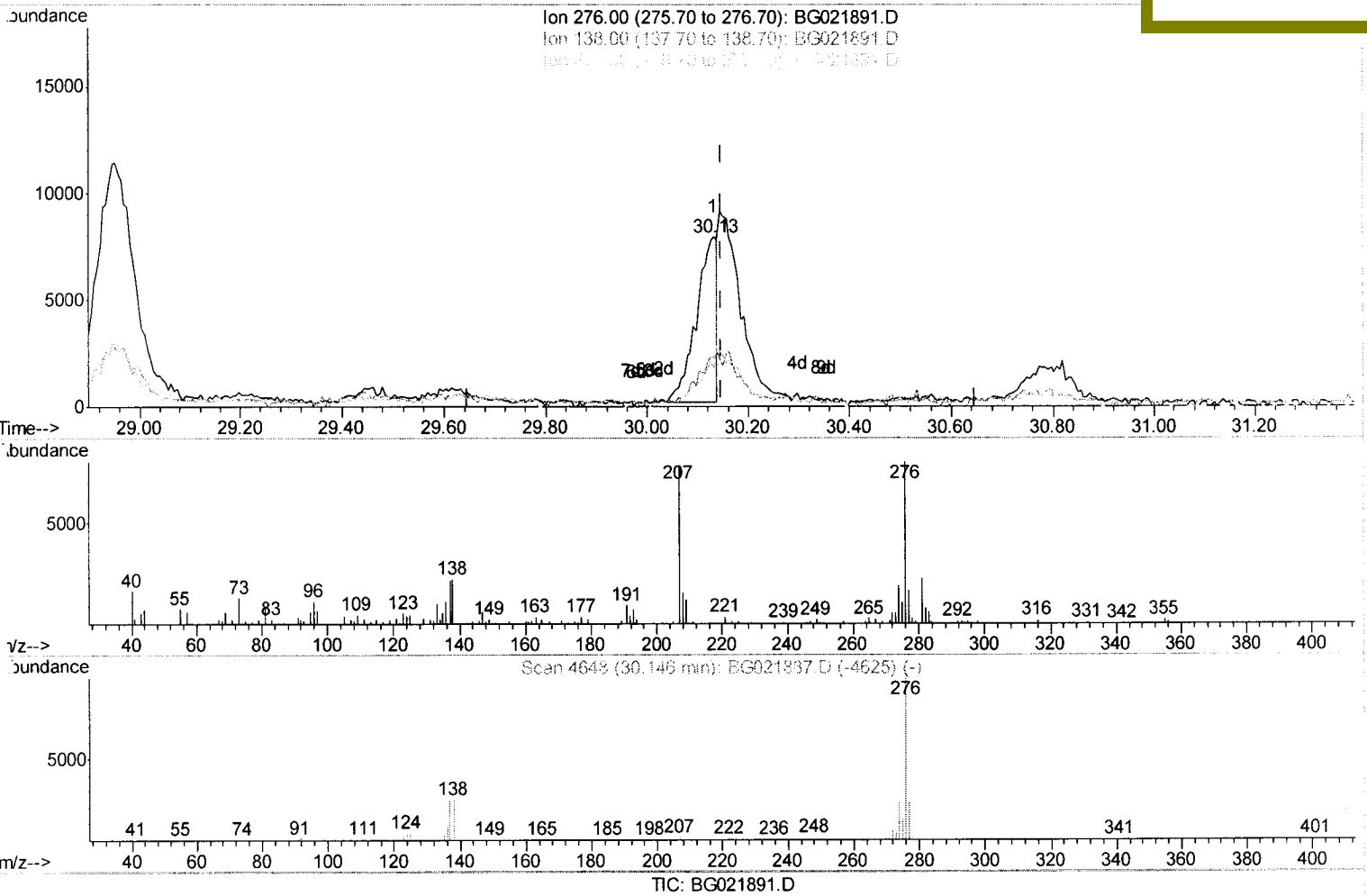
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 01:28:22 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM



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

30.132min (-0.014) 1.33ng/ul

response 22038

Ion	Exp%	Act%
276.00	100	100
138.00	17.40	29.02#
277.00	24.70	22.19
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 02:04:01 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : D9XF7MSD

Manual Integrations APPROVED
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	44155	20.00	ng/ul	0.00
18) Naphthalene-d8	10.98	136	239333	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.79	164	146088	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.53	188	304697	20.00	ng/ul	0.00
76) Chrysene-d12	21.81	240	296852	20.00	ng/ul	0.00
84) Perylene-d12	25.15	264	297140	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.54	96	1928	2.11	ng/uL	0.00
5) Phenol-d5	7.31	99	43900	13.40	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.48	67	23118	14.23	ng/ul	0.00
9) 2-Chlorophenol-d4	7.69	132	42722	16.80	ng/ul	0.00
13) 4-Methylphenol-d8	8.86	113	27570	10.02	ng/ul	0.00
19) Nitrobenzene-d5	9.33	128	21783	13.84	ng/ul	0.00
22) 2-Nitrophenol-d4	10.06	143	24374	24.52	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.60	165	44071	15.68	ng/ul	0.00
29) 4-Chloroaniline-d4	11.12	131	40481m	13.37	ng/ul	0.00
44) Dimethylphthalate-d6	14.19	166	163860	15.97	ng/ul	0.00
47) Acenaphthylene-d8	14.49	160	222623	15.28	ng/ul	0.00
52) 4-Nitrophenol-d4	14.99	143	12614m	7.17	ng/ul	0.00
58) Fluorene-d10	15.78	176	149244	13.81	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.89	200	14279	16.92	ng/ul	0.00
71) Anthracene-d10	17.63	188	204371	13.78	ng/ul	0.00
77) Pyrene-d10	19.91	212	220404	15.86	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.92	264	203745	14.43	ng/ul	0.00
Target Compounds						Qvalue
6) Phenol	7.34	94	44335	12.72	ng/ul#	73
10) 2-Chlorophenol	7.72	128	43599	17.01	ng/ul#	80
15) N-Nitroso-di-n-propylamine	8.97	70	33244	16.23	ng/ul#	71
28) Naphthalene	11.04	128	14590	1.22	ng/ul	98
33) 4-Chloro-3-methylphenol	12.25	107	42761	14.77	ng/ul#	60
34) 2-Methylnaphthalene	12.63	142	13723	1.55	ng/ul	91
35) 1-Methylnaphthalene	12.85	142	11307	1.29	ng/ul	94
45) Dimethylphthalate	14.23	163	81466	7.79	ng/ul	98
50) Acenaphthene	14.85	153	167506	16.15	ng/ul	96
53) 4-Nitrophenol	15.00	109	5938m	7.41	ng/ul	
55) 2,4-Dinitrotoluene	15.14	165	42716	14.96	ng/ul#	53
59) Fluorene	15.83	166	13474	1.12	ng/ul	97
69) Pentachlorophenol	17.18	266	29173	20.77	ng/ul	94
70) Phenanthrene	17.58	178	177807	10.67	ng/ul	100
72) Anthracene	17.66	178	41761	2.47	ng/ul	98
73) Carbazole	17.93	167	18978m	1.29	ng/ul	
75) Fluoranthene	19.57	202	234321	12.38	ng/ul	97
78) Pyrene	19.94	202	483870m	28.17	ng/ul	
79) Butylbenzylphthalate	20.81	149	17297	4.56	ng/ul#	83
81) Benzo(a)anthracene	21.79	228	105135	6.36	ng/ul	99
82) Bis(2-ethylhexyl)phthalate	21.68	149	292067	47.12	ng/ul	96
83) Chrysene	21.86	228	98038	6.00	ng/ul	96
86) Benzo(b)fluoranthene	24.09	252	128782	7.57	ng/ul#	95

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Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021891.D
Acq On : 15 May 2016 13:34
Operator : UM/SJ
Sample : H3096-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 02:04:01 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : D9XF7MSD

Manual Integrations APPROVED
sohil
5/16/2016 7:03:50 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Benzo(k)fluoranthene	24.15	252	46474m	2.55	ng/ul	
89) Benzo(a)pyrene	24.98	252	87915	5.19	ng/ul#	93
90) Indeno(1,2,3-cd)pyrene	28.95	276	56784	2.83	ng/ul#	93
92) Benzo(g,h,i)perylene	30.14	276	49218m	2.97	ng/ul	

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