

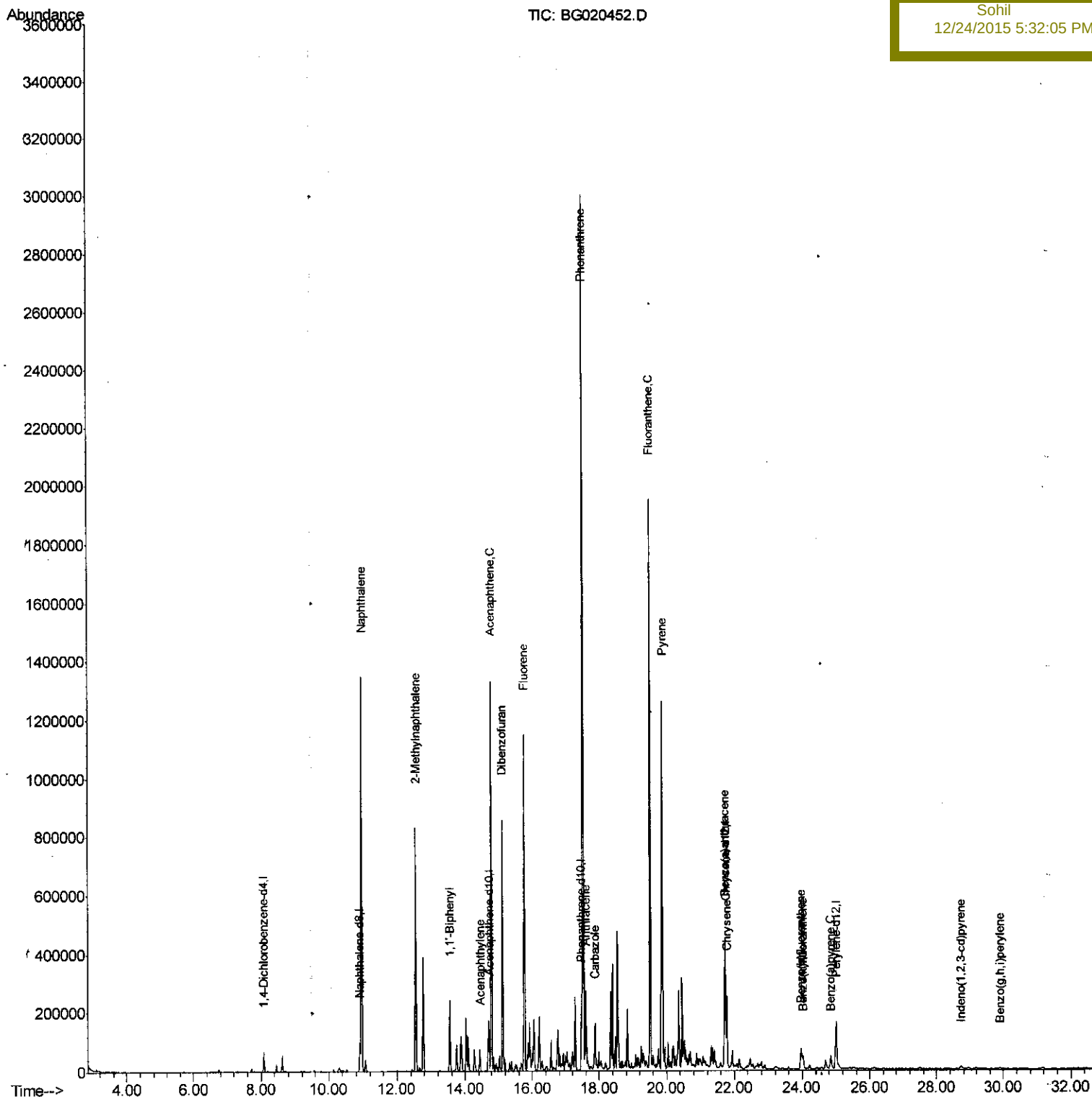
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020452.D
Acq On : 23 Dec 2015 20:46
Operator : UM/SJ
Sample : G4848-08DL 30X
Misc :
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 03:42:25 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
Last Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9N54DL

Manual Integrations
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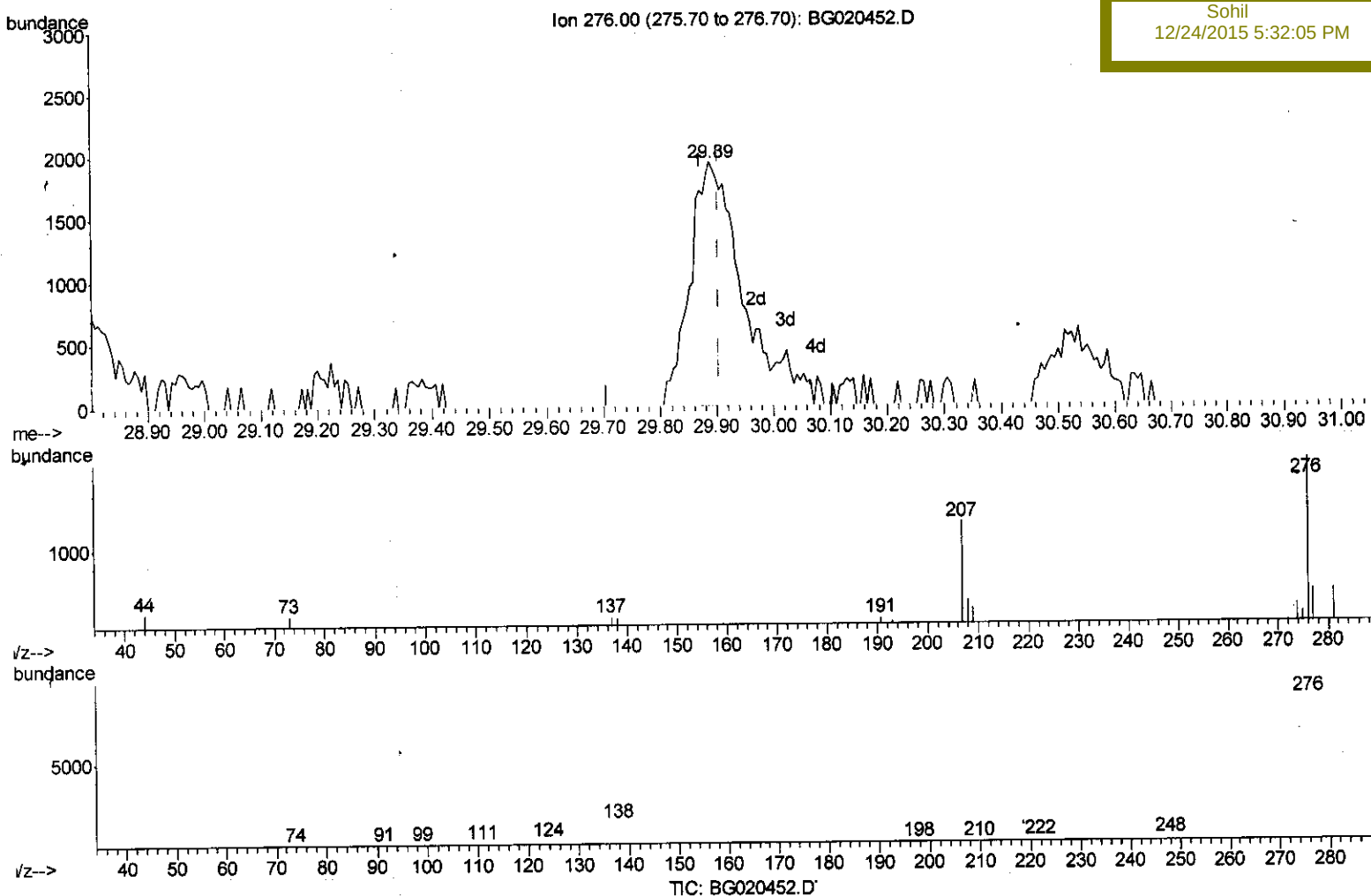
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 03:40:34 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
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Manual Integrations
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(94) Benzo(g,h,i)perylene

29.888min (-0.018) 1.28ng/ul m

response 12608

Ion	Exp%	Act%
276.00	100	100
138.00	13.50	11.49
277.00	24.90	26.12
0.00	0.00	0.00

U.M
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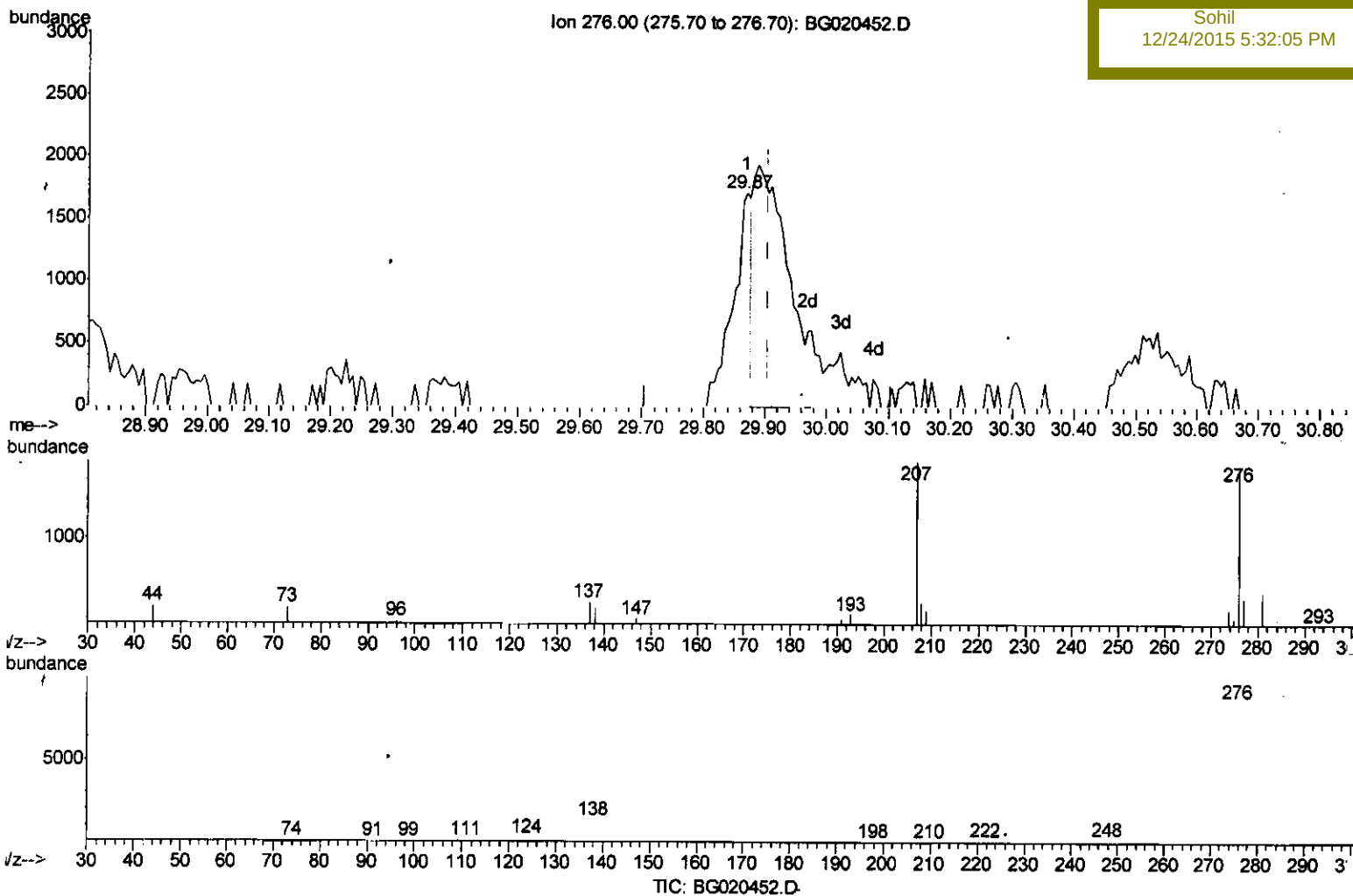
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
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Manual Integrations
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(94) Benzo(g,h,i)perylene

29.871min (-0.035) 0.36ng/ul

response 3521

Ion	Exp%	Act%
276.00	100	100
138.00	13.50	17.91#
277.00	24.90	24.15
0.00	0.00	0.00

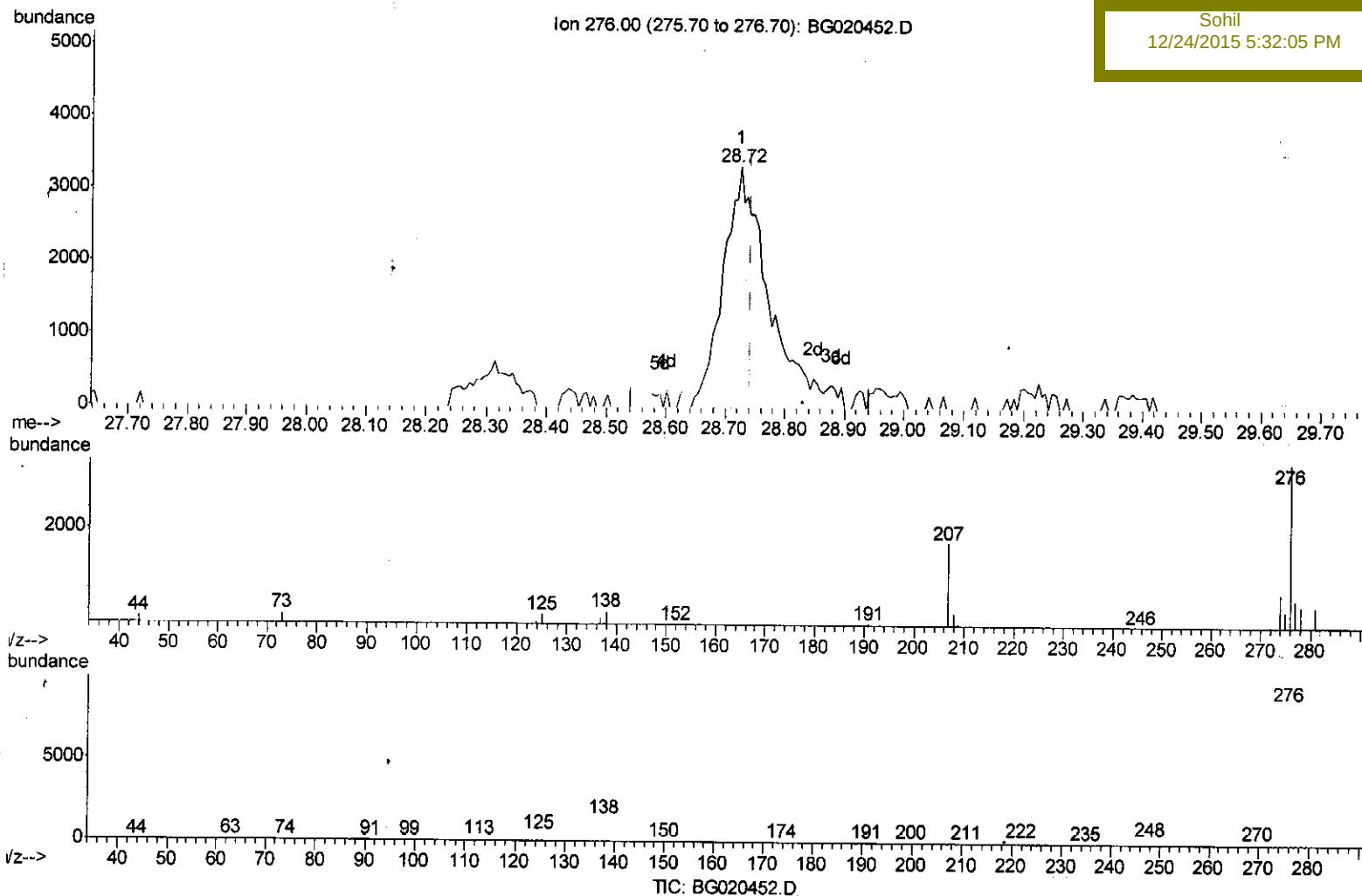
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
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Instrument :
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 D9N54DL

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

28.725min (-0.018) 1.49ng/ul m

response 17933

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	12.02
277.00	21.70	19.99
0.00	0.00	0.00

U.M
 12/23/15

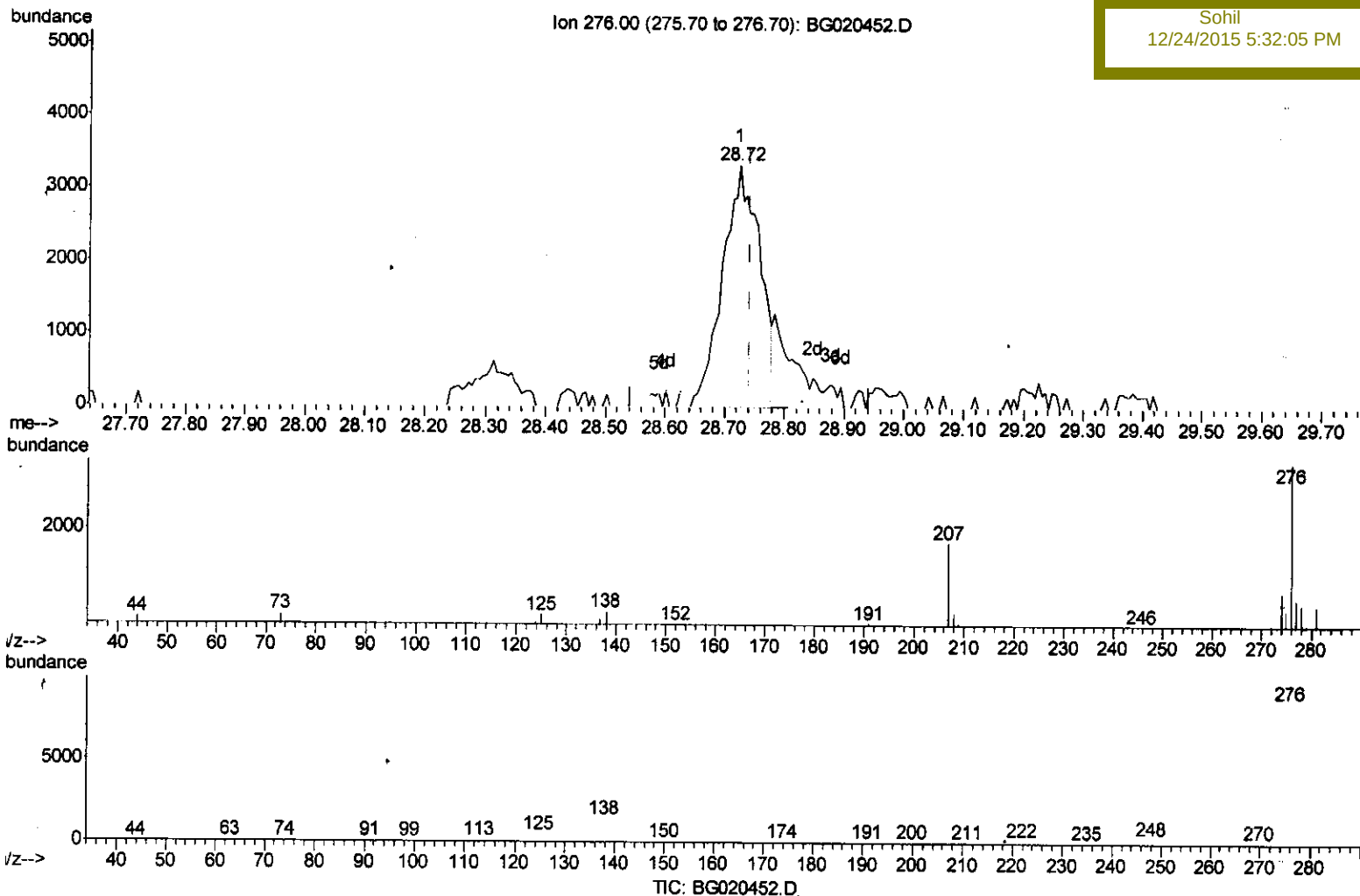
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
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 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampled :
 D9N54DL

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

28.725min (-0.018) 1.19ng/ul

response 14335

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	12.02
277.00	21.70	19.99
0.00	0.00	0.00

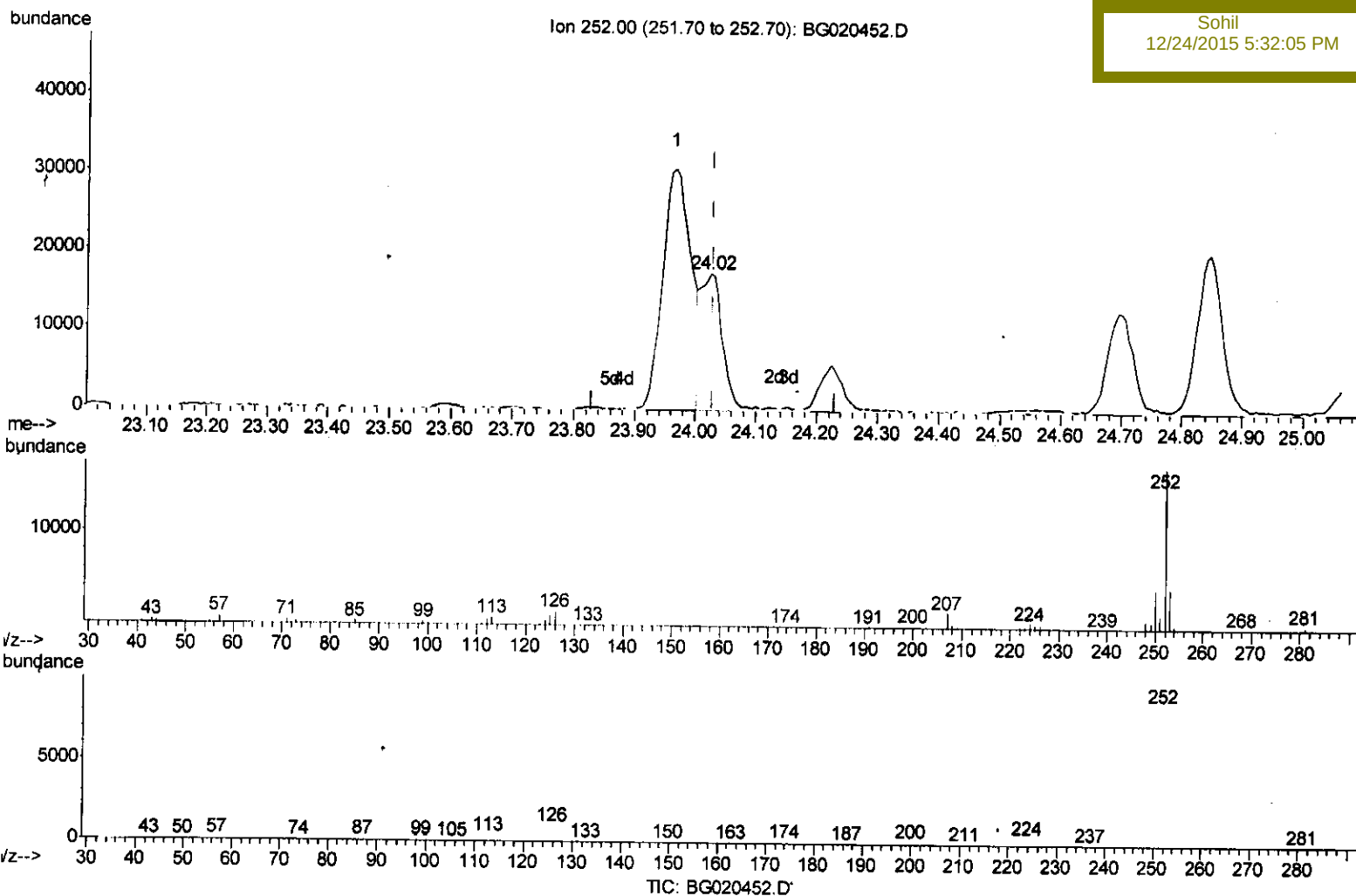
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 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
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Manual Integrations
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(89) Benzo(k)fluoranthene

24.024min (-0.006) 4.25ng/ul m

response 43530

Ion Exp% Act%

252.00 100 100

253.00 22.40 25.07

125.00 7.20 6.95

0.00 0.00 0.00

U.m
 12/23/15

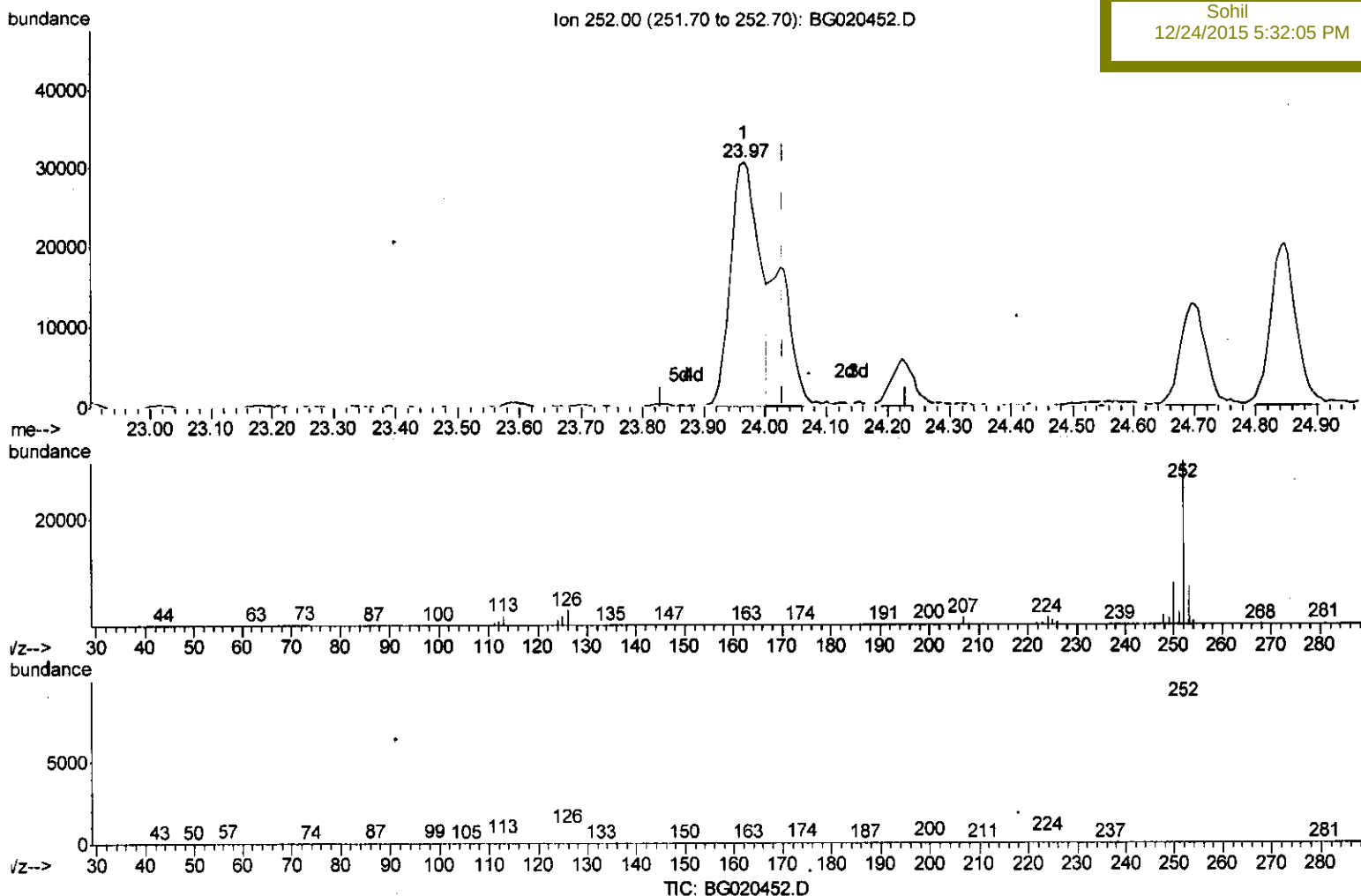
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020452.D
Acq On : 23 Dec 2015 20:46
Operator : UM/SJ
Sample : G4848-08DL 30X
Misc :
ALS Vial : 42 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION
Last Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

Instrument :
BNA_G
Client Sampled :
D9N54DL

Manual Integrations
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(89) Benzo(k)fluoranthene

23.966min (-0.065) 9.51ng/ul

response 97370

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	23.88
125.00	7.20	6.25
0.00	0.00	0.00

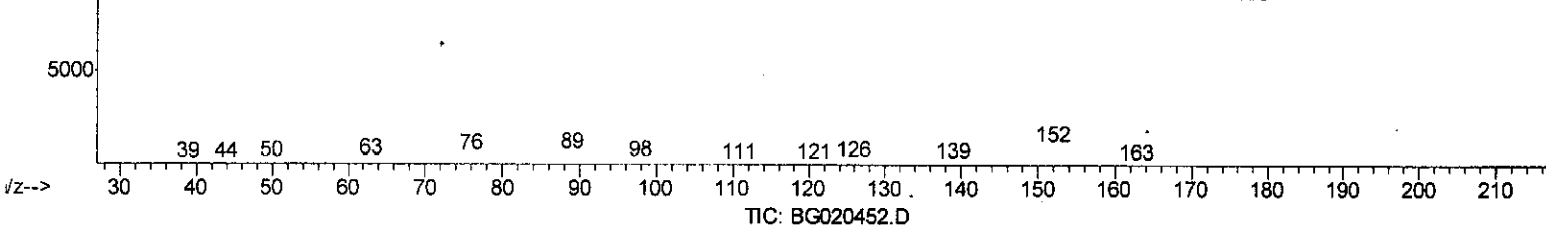
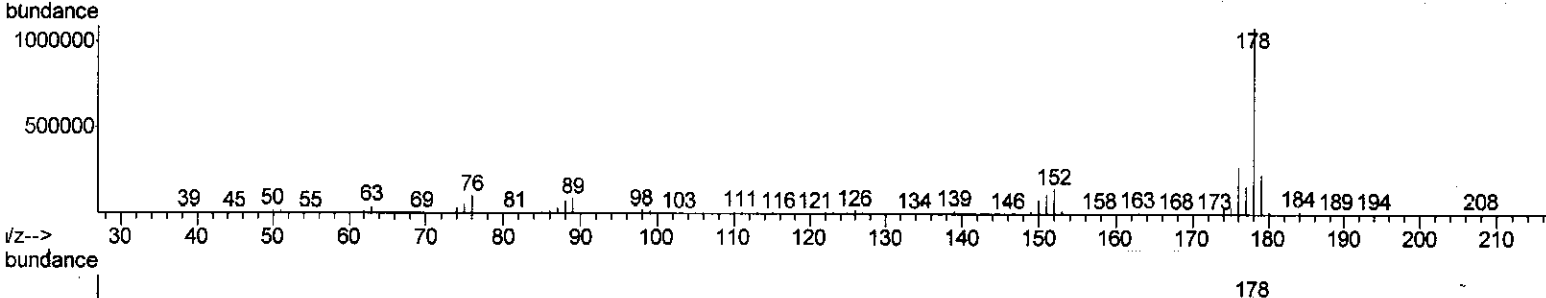
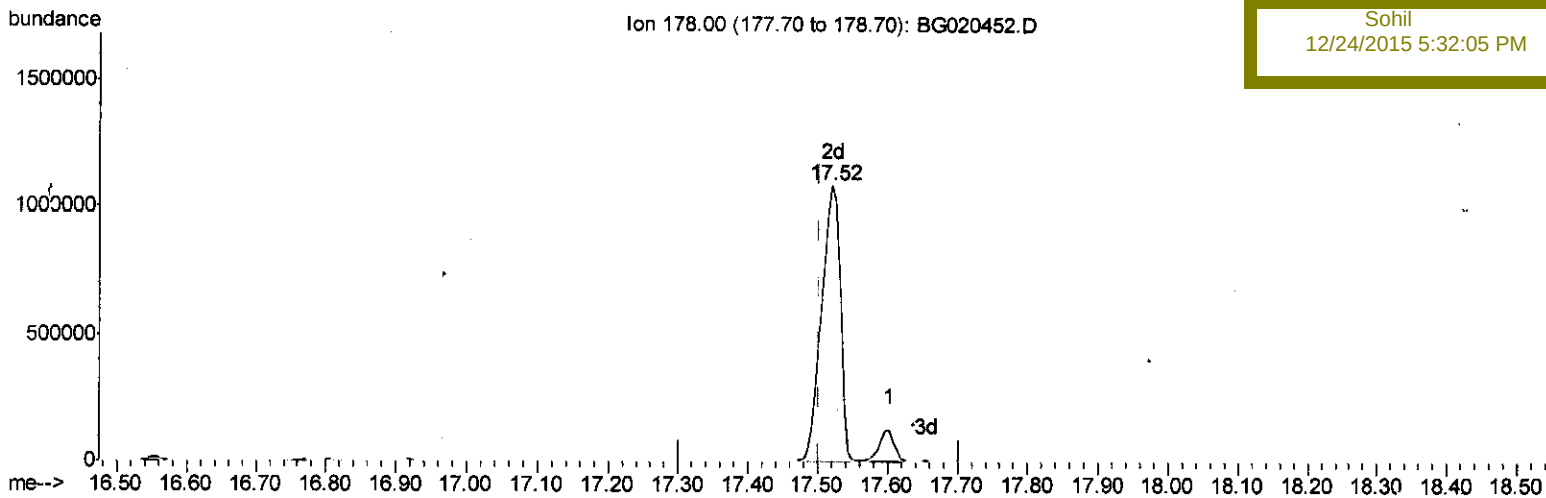
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N54DL

Manual Integrations
 APPROVED

Sohil
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(70) Phenanthrene

17.520min (+0.018) 252.72ng/ul m

response 2009704

Ion	Exp%	Act%
178.00	100	100
179.00	16.10	21.10#
176.00	19.10	25.29#
0.00	0.00	0.00

U.M
 12/23/15

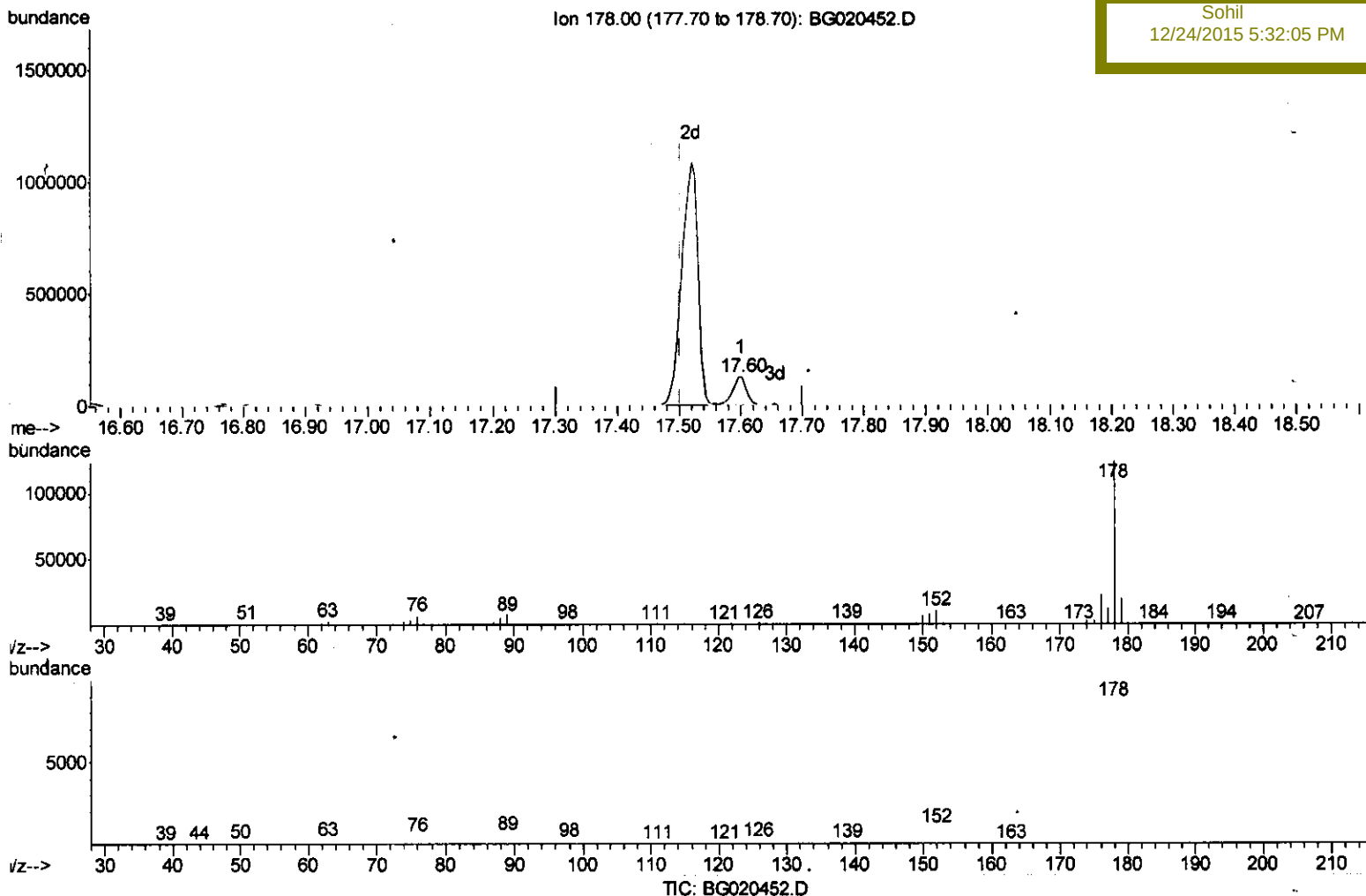
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N54DL

Manual Integrations
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Sohil
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(70) Phenanthrene

17.603min (+0.100) 24.36ng/ul

response 193713

Ion	Exp%	Act%
178.00	100	100
179.00	16.10	15.95
176.00	19.10	17.87
0.00	0.00	0.00

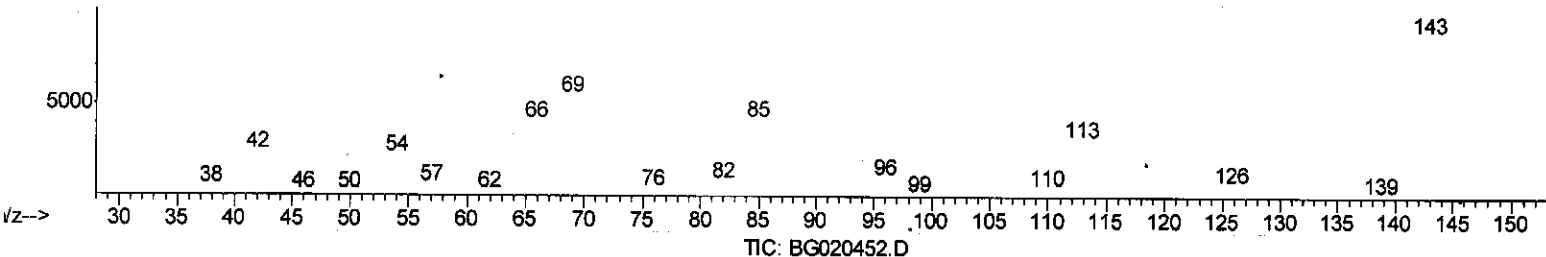
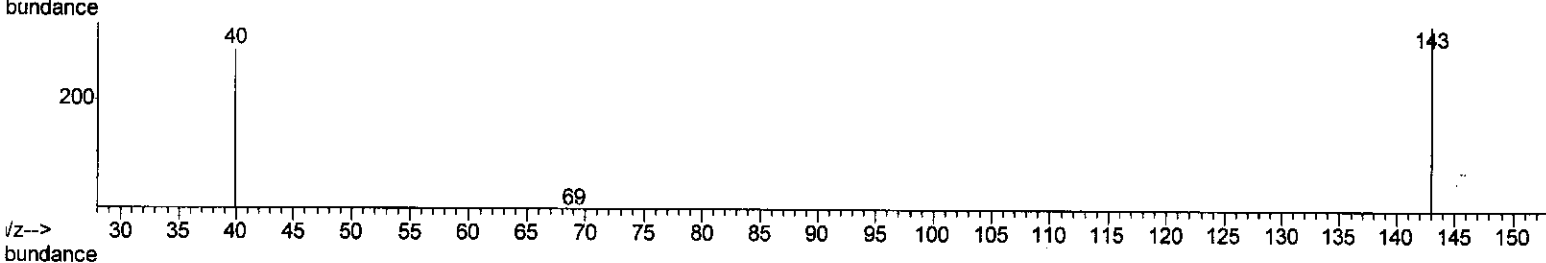
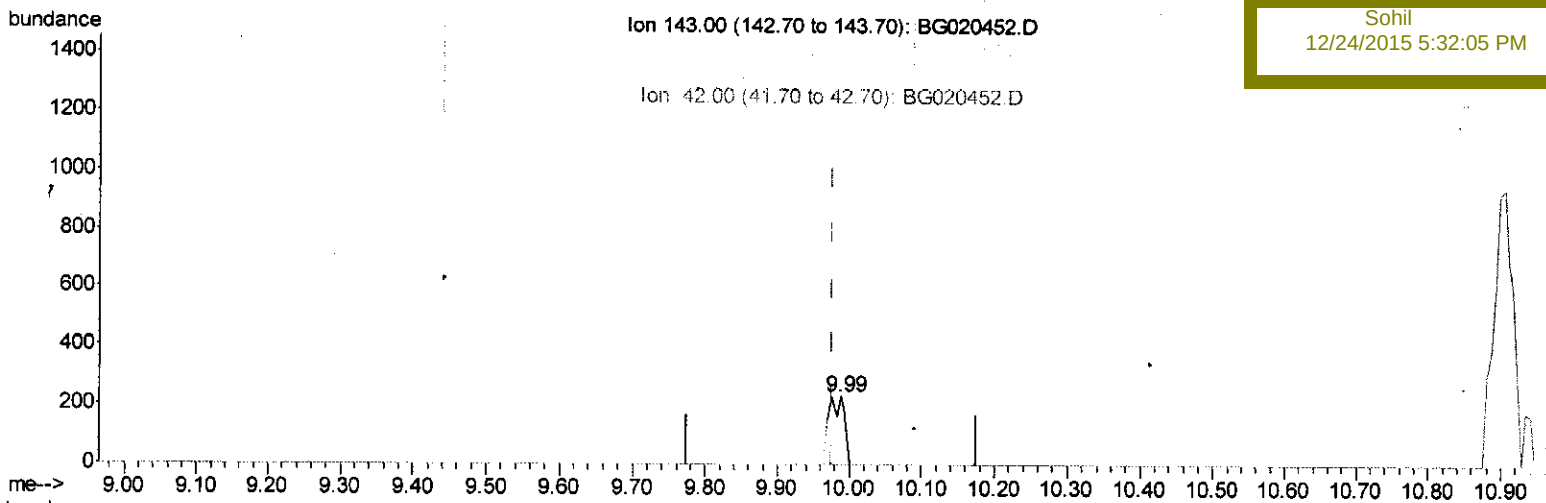
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
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 Quant Title : SVOA CALIBRATION
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 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N54DL

Manual Integrations
 APPROVED

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(22) 2-Nitrophenol-d4 (S)

9.988min (+0.012) 0.42ng/ul m

response 333

Ion	Exp%	Act%
143.00	100	100
69.00	58.10	69.43
41.00	21.10	0.00#
42.00	22.60	0.00#

U.M
 12/23/15

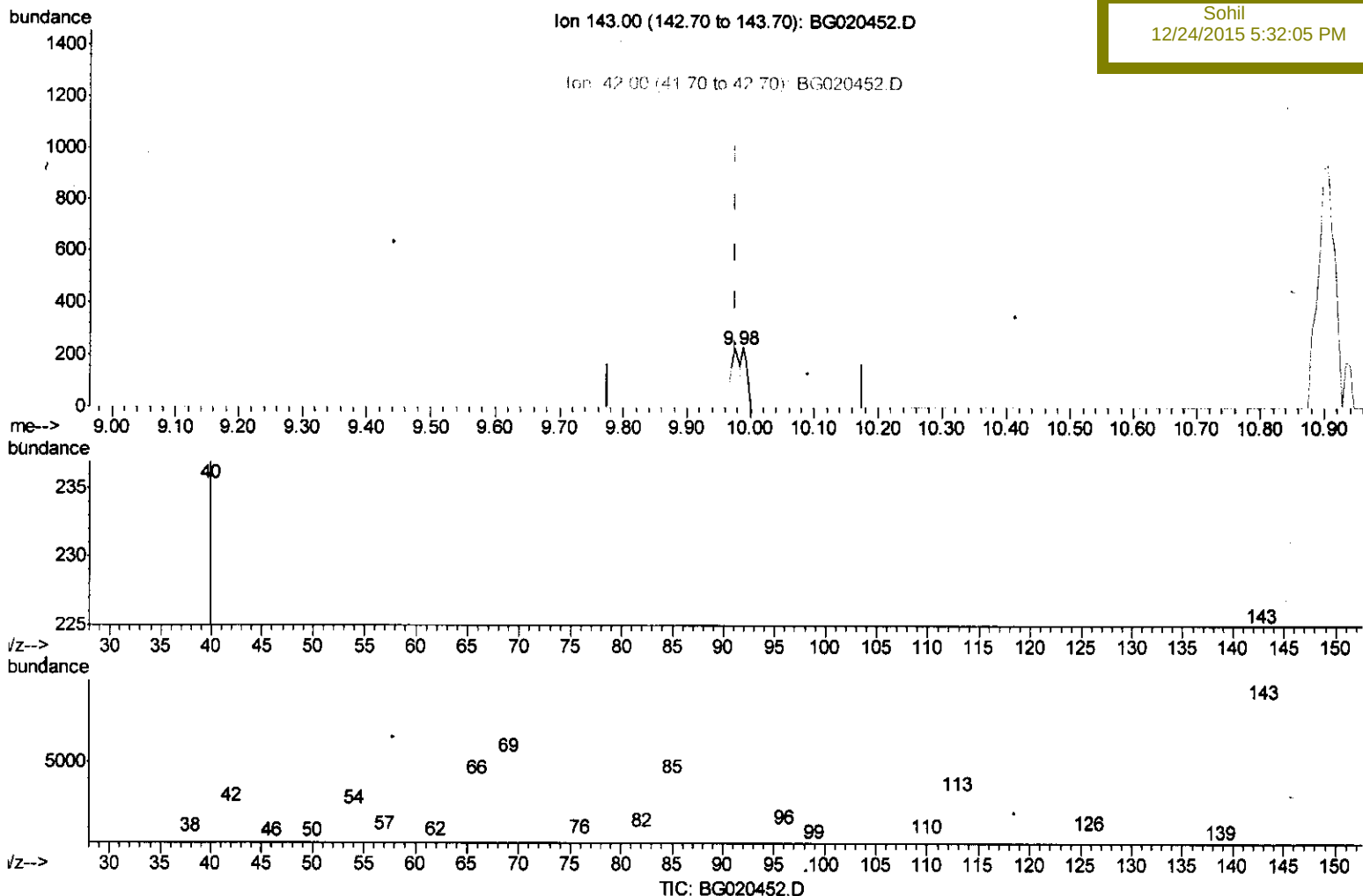
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 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampled :
 D9N54DL

Manual Integrations
 APPROVED

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(22) 2-Nitrophenol-d4 (S)

9.976min (-0.000) 0.24ng/ul

response 194

Ion	Exp%	Act%
143.00	100	100
69.00	58.10	0.00#
41.00	21.10	0.00#
42.00	22.60	0.00#

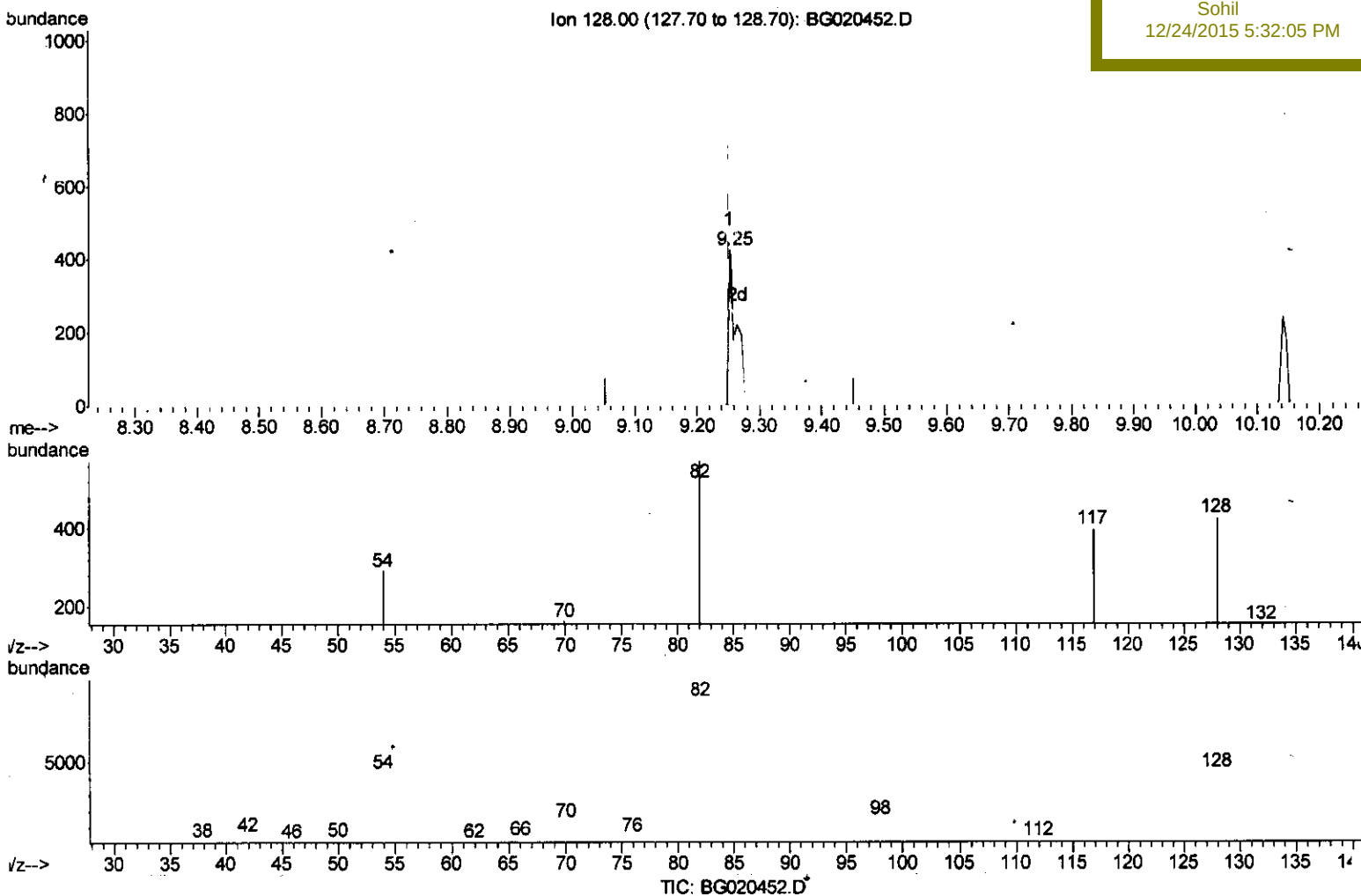
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampled :
 D9N54DL

Manual Integrations
 APPROVED

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(19) Nitrobenzene-d5 (S)

9.254min (-0.000) 0.50ng/ul m

response 355

Ion	Exp%	Act%
128.00	100	100
82.00	258.00	134.91#
54.00	123.60	68.63#
0.00	0.00	0.00

U.M
 12/23/15

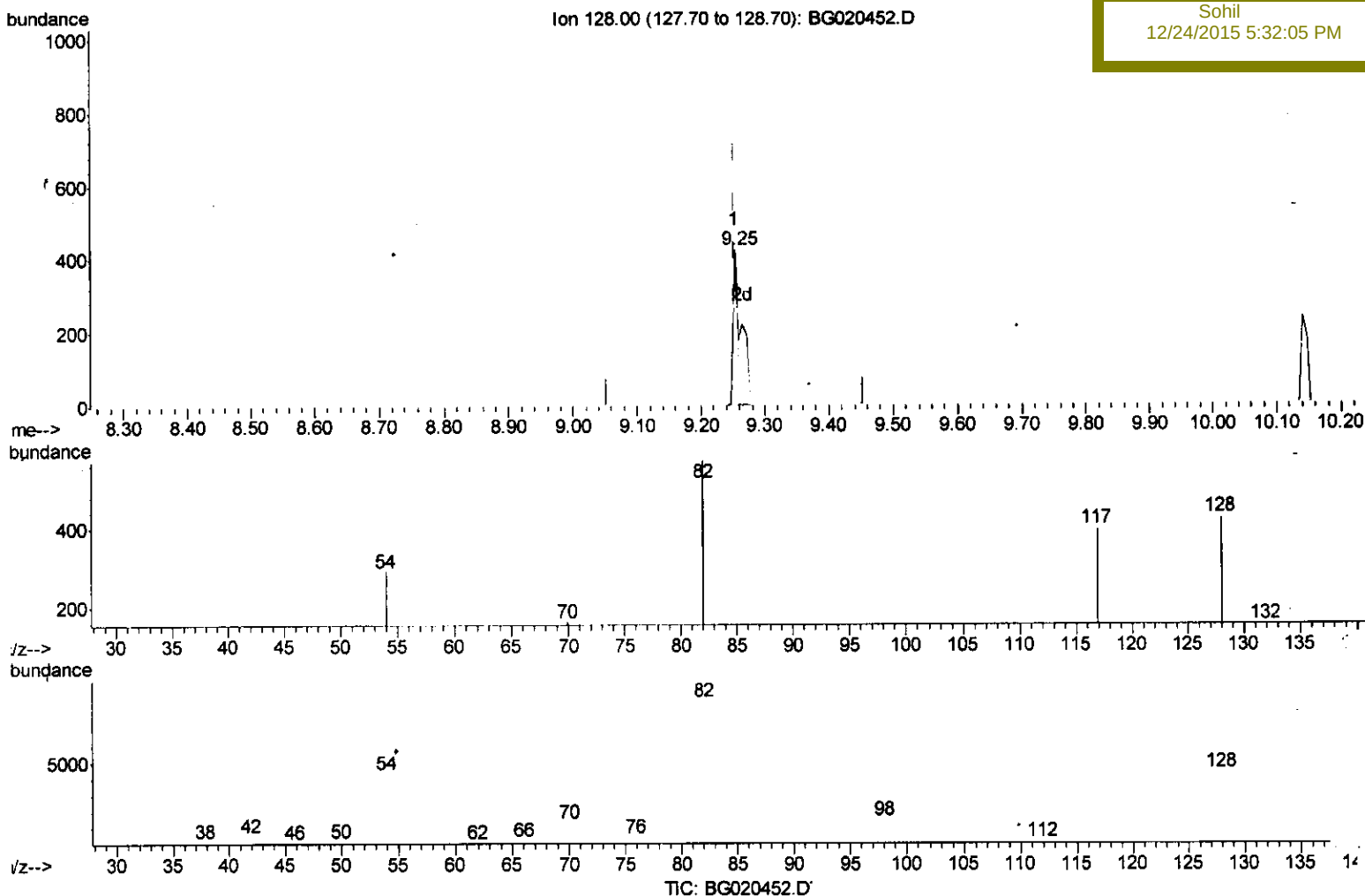
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
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 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampleId :
 D9N54DL

Manual Integrations
 APPROVED

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(19) Nitrobenzene-d5 (S)

9.254min (-0.000) 0.30ng/ul

response 212

Ion	Exp%	Act%
128.00	100	100
82.00	258.00	134.91#
54.00	123.60	68.63#
0.00	0.00	0.00

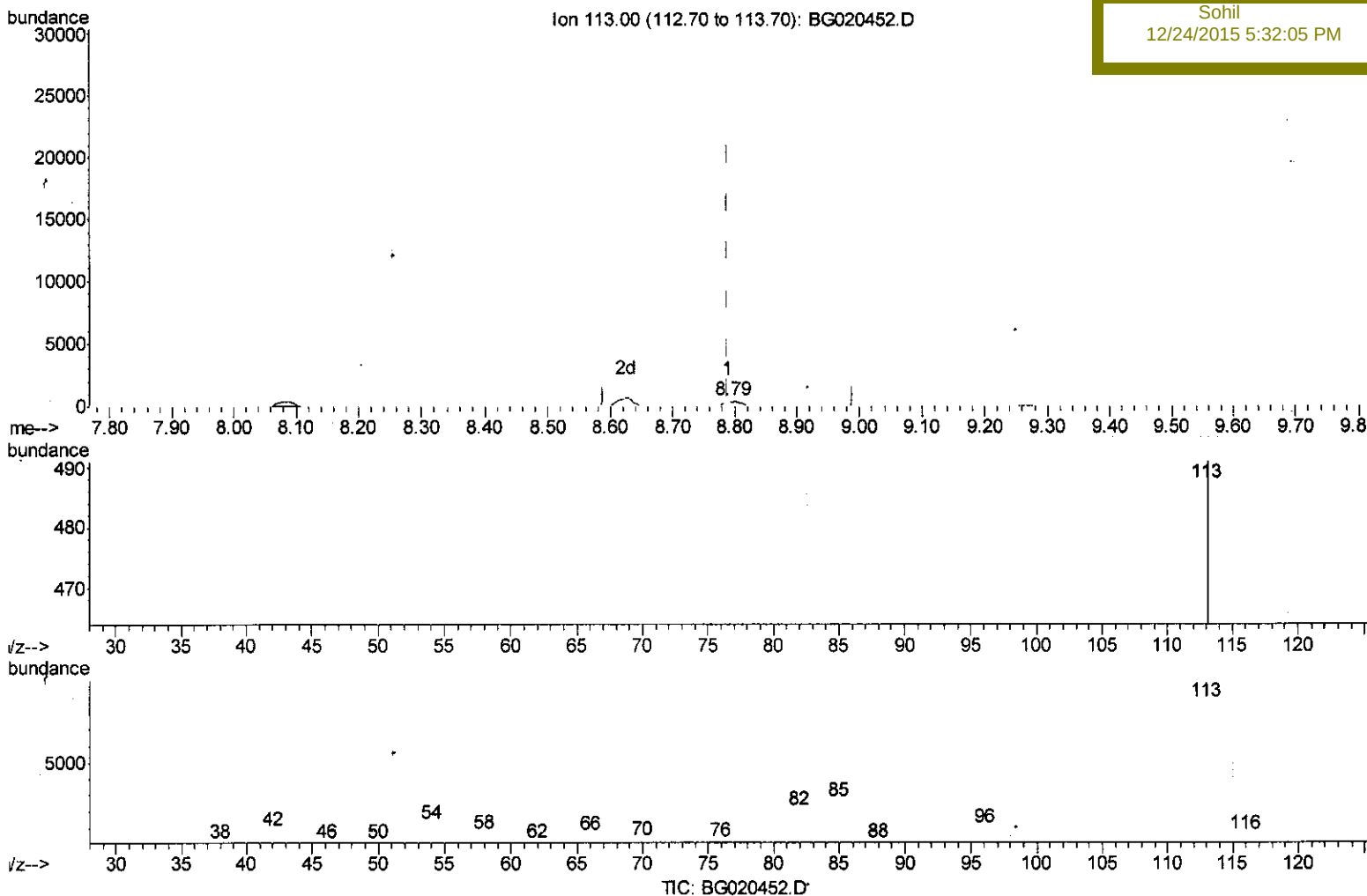
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 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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Manual Integrations
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(13) 4-Methylphenol-d8 (S)

8.789min (-0.000) 0.41ng/ul m

response 661

Ion	Exp%	Act%
113.00	100	100
115.00	89.10	94.50
54.00	13.00	0.00#
0.00	0.00	0.00

U.M
 12/23/15

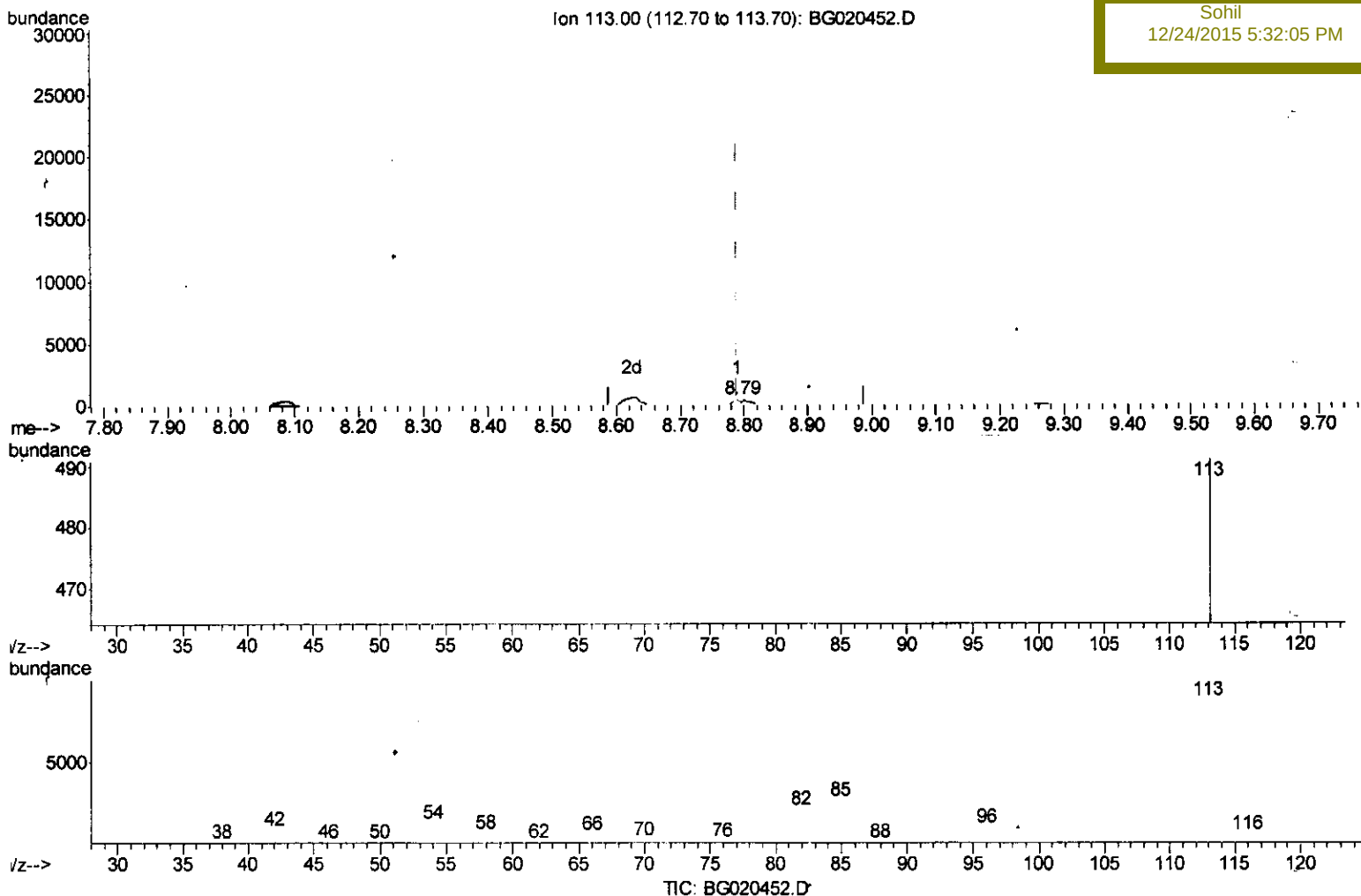
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 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 24 02:51:13 2015
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Instrument :
 BNA_G
 ClientSampleId :
 D9N54DL

Manual Integrations
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(13) 4-Methylphenol-d8 (S)

8.789min (-0.000) 0.23ng/ul

response 370

Ion	Exp%	Act%
113.00	100	100
115.00	89.10	94.50
54.00	13.00	0.00#
0.00	0.00	0.00

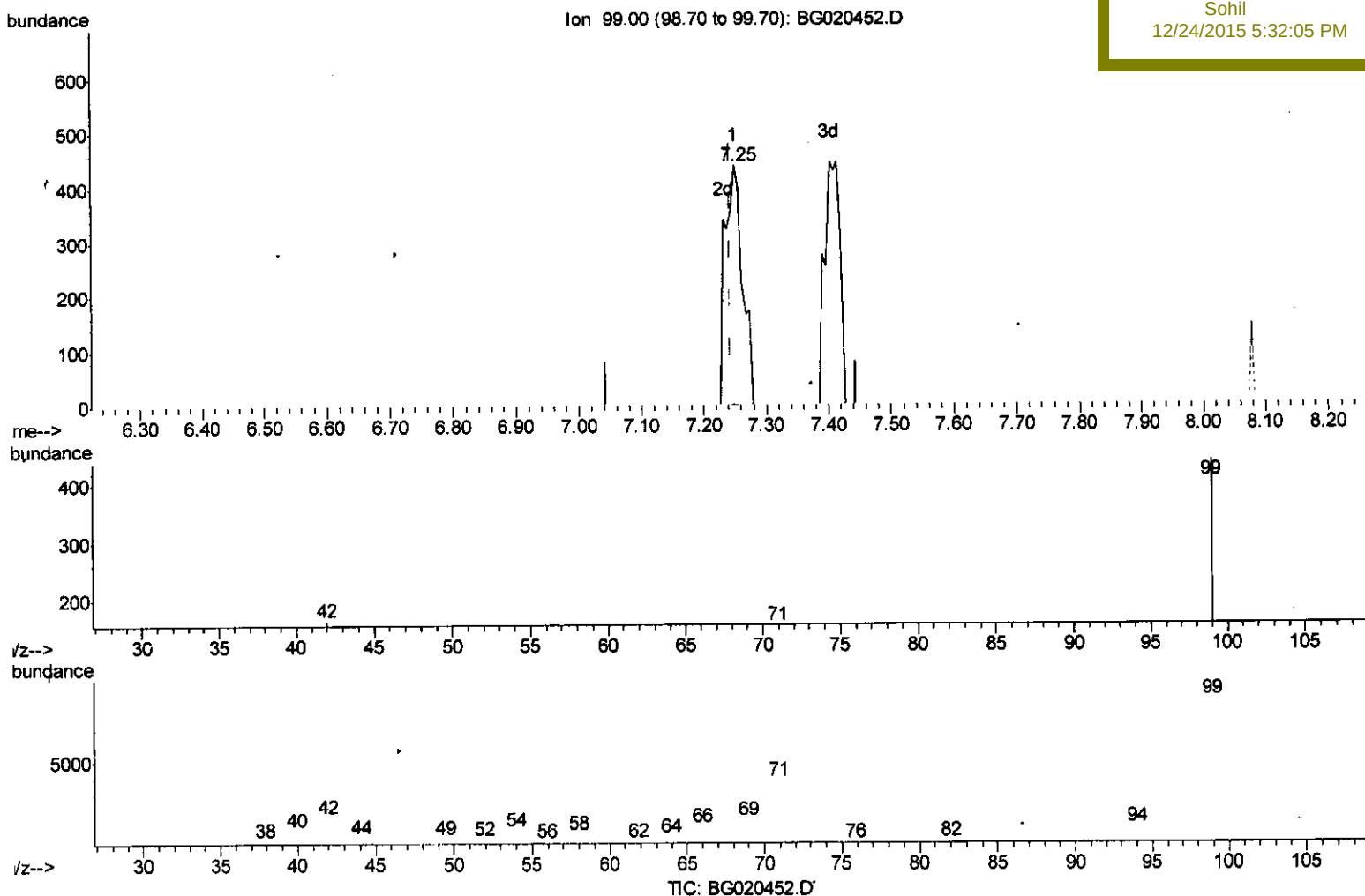
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

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 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 *Response via : Initial Calibration

Instrument :
 BNA_G
 ClientSampled :
 D9N54DL

Manual Integrations
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(5) Phenol-d5 (S)

7.250min (+0.006) 0.45ng/ul m

response 854

Ion	Exp%	Act%
99.00	100	100
71.00	39.20	35.54
42.00	20.00	37.36#
0.00	0.00	0.00

U.M
 12/23/15

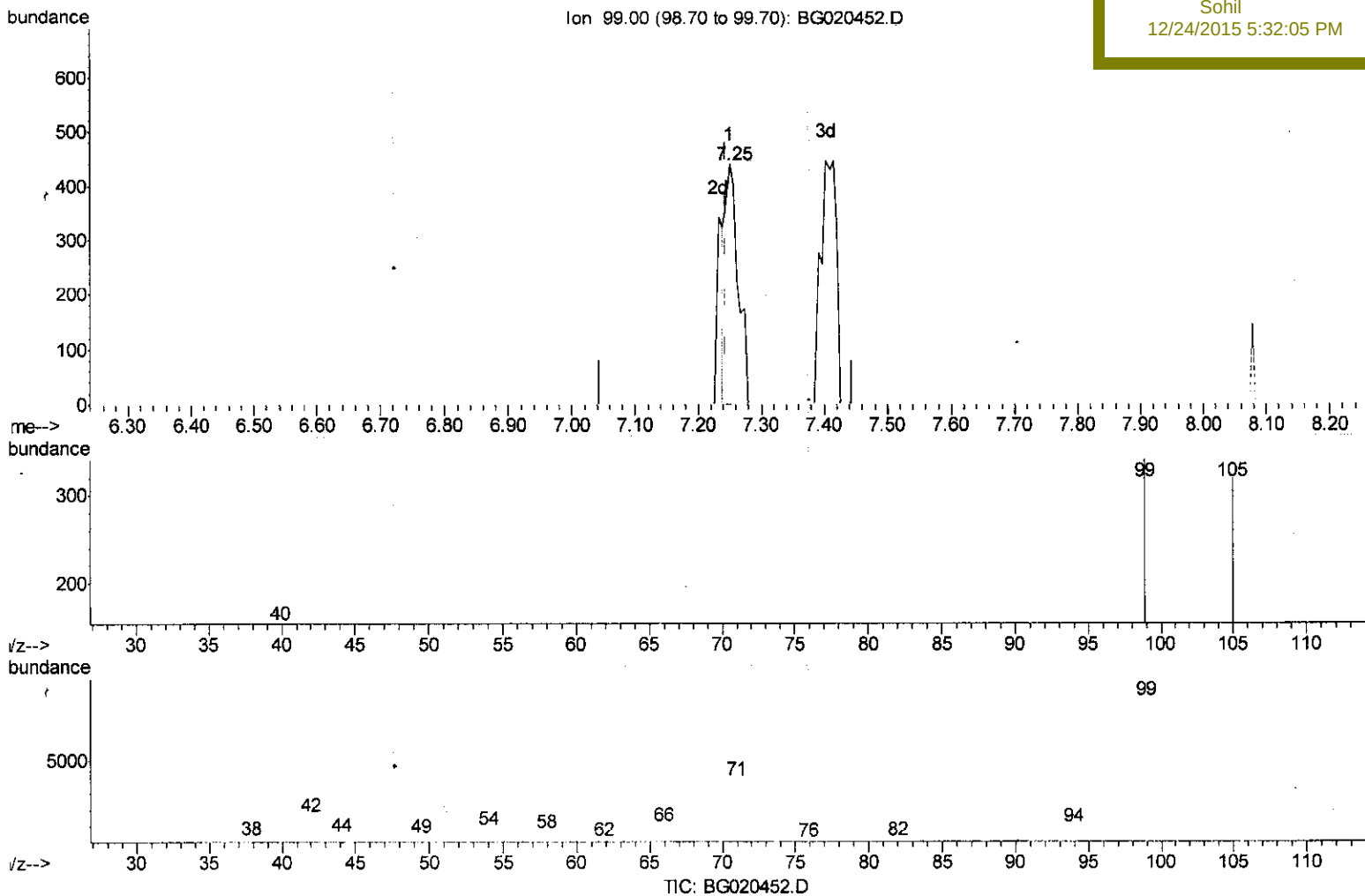
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020452.D
 Acq On : 23 Dec 2015 20:46
 Operator : UM/SJ
 Sample : G4848-08DL 30X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

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 Response via : Initial Calibration

Instrument :
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 ClientSampleId :
 D9N54DL

Manual Integrations
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(5) Phenol-d5 (S)

7.250min (+0.006) 0.33ng/ul

response 620

Ion	Exp%	Act%
99.00	100	100
71.00	39.20	35.54
42.00	20.00	37.36#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020452.D
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Operator : UM/SJ
Sample : G4848-08DL 30X
Misc :
ALS Vial : 42 Sample Multiplier: 1

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D9N54DL

Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	21531	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	91810	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	62649	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	145386	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	186167	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	177242	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.25	99	854m	0.45	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	546	0.48	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	688	0.50	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	661m	0.41	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	355m	0.50	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	333m	0.42	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.52	165	962	0.60	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	1181	0.65	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	4643	0.92	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	4657	0.79	ng/ul	0.00
52) 4-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
58) Fluorene-d10	15.70	176	4095	0.89	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.57	188	6350	0.95	ng/ul	0.00
79) Pyrene-d10	19.85	212	7180	0.83	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	7842	0.89	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.96	128	1178086	245.72	ng/ul	95
34) 2-Methylnaphthalene	12.56	142	390249	106.56	ng/ul	98
41) 1,1'-Biphenyl	13.55	154	133889	28.33	ng/ul	96
48) Acenaphthylene	14.44	152	31289	5.00	ng/ul#	93
50) Acenaphthene	14.79	153	563228	133.64	ng/ul	97
54) Dibenzofuran	15.12	168	565805	90.25	ng/ul	100
59) Fluorene	15.77	166	547439	108.74	ng/ul	98
70) Phenanthrene	17.52	178	2009704m	252.72	ng/ul	
72) Anthracene	17.60	178	193713	24.02	ng/ul	99
75) Carbazole	17.87	167	101185	14.93	ng/ul	99
77) Fluoranthene	19.52	202	1302255	140.12	ng/ul	98
80) Pyrene	19.88	202	892983	79.25	ng/ul	99
83) Benzo(a)anthracene	21.72	228	233587	21.50	ng/ul	97
85) Chrysene	21.78	228	189500	18.52	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	97370	9.13	ng/ul	94
89) Benzo(k)fluoranthene	24.02	252	43530m	4.25	ng/ul	
91) Benzo(a)pyrene	24.85	252	56207	5.56	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.72	276	17933m	1.49	ng/ul	
94) Benzo(g,h,i)perylene	29.89	276	12608m	1.28	ng/ul	

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