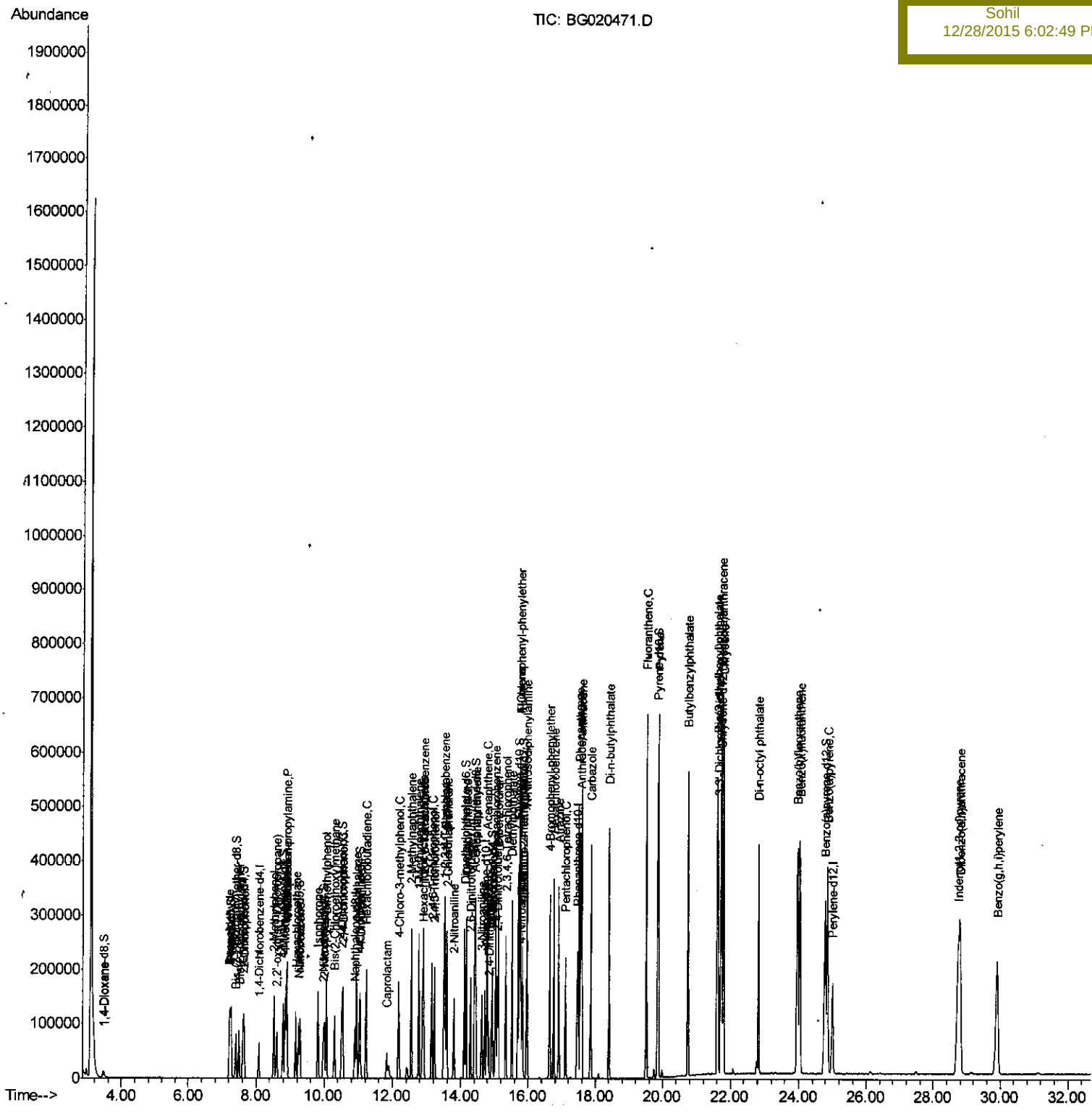
Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:49:28 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM

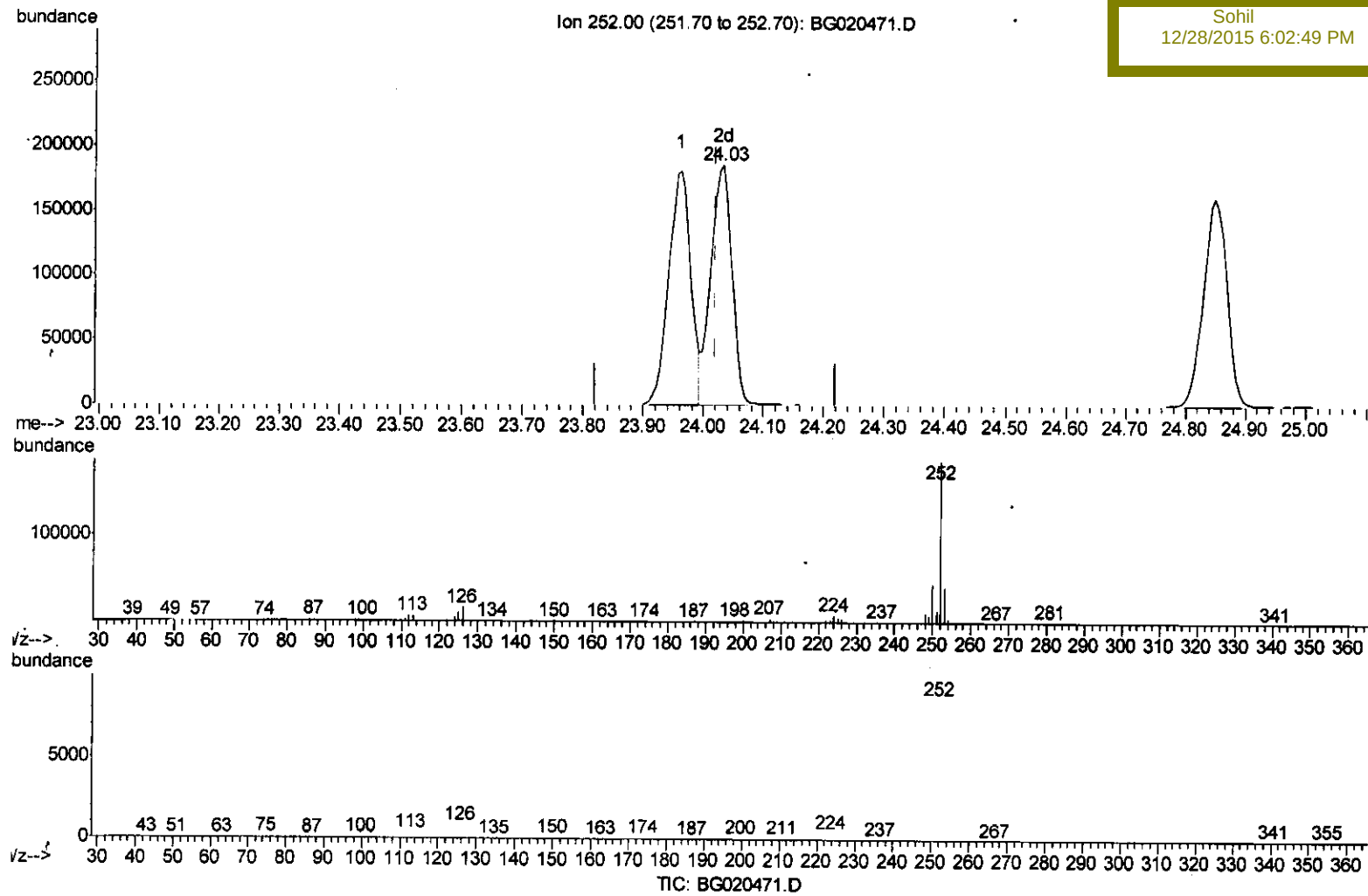


Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:47:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM



(89) Benzo(k)fluoranthene

24.033min (+0.012) 39.19ng/ul m

response 455699

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.09
125.00	7.20	5.66#
0.00	0.00	0.00

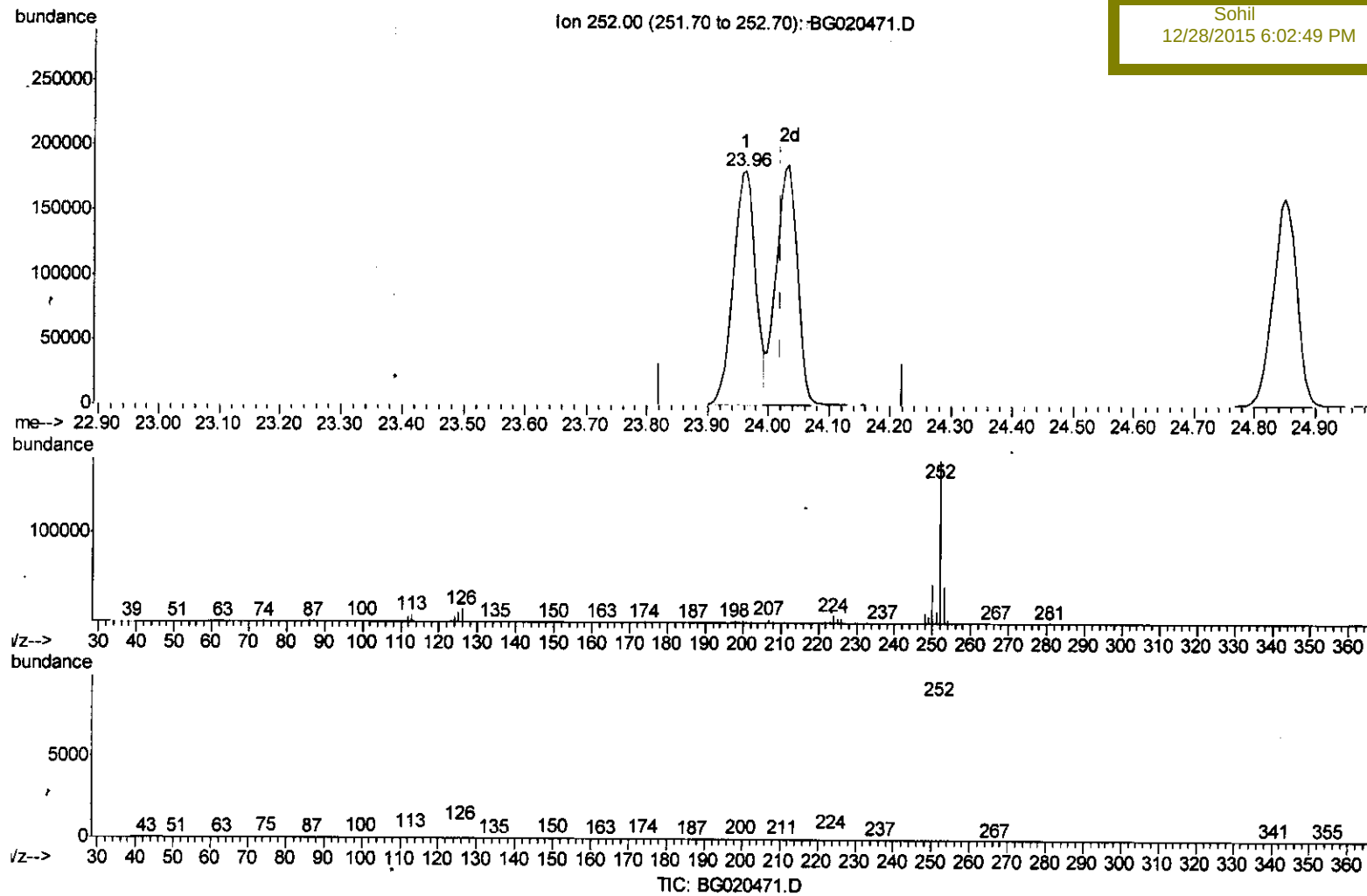
U.M
12/25/15

Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:47:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM



TIC: BG020471.D

(89) Benzo(k)fluoranthene

23.962min (-0.059) 39.71ng/ul

response 461747

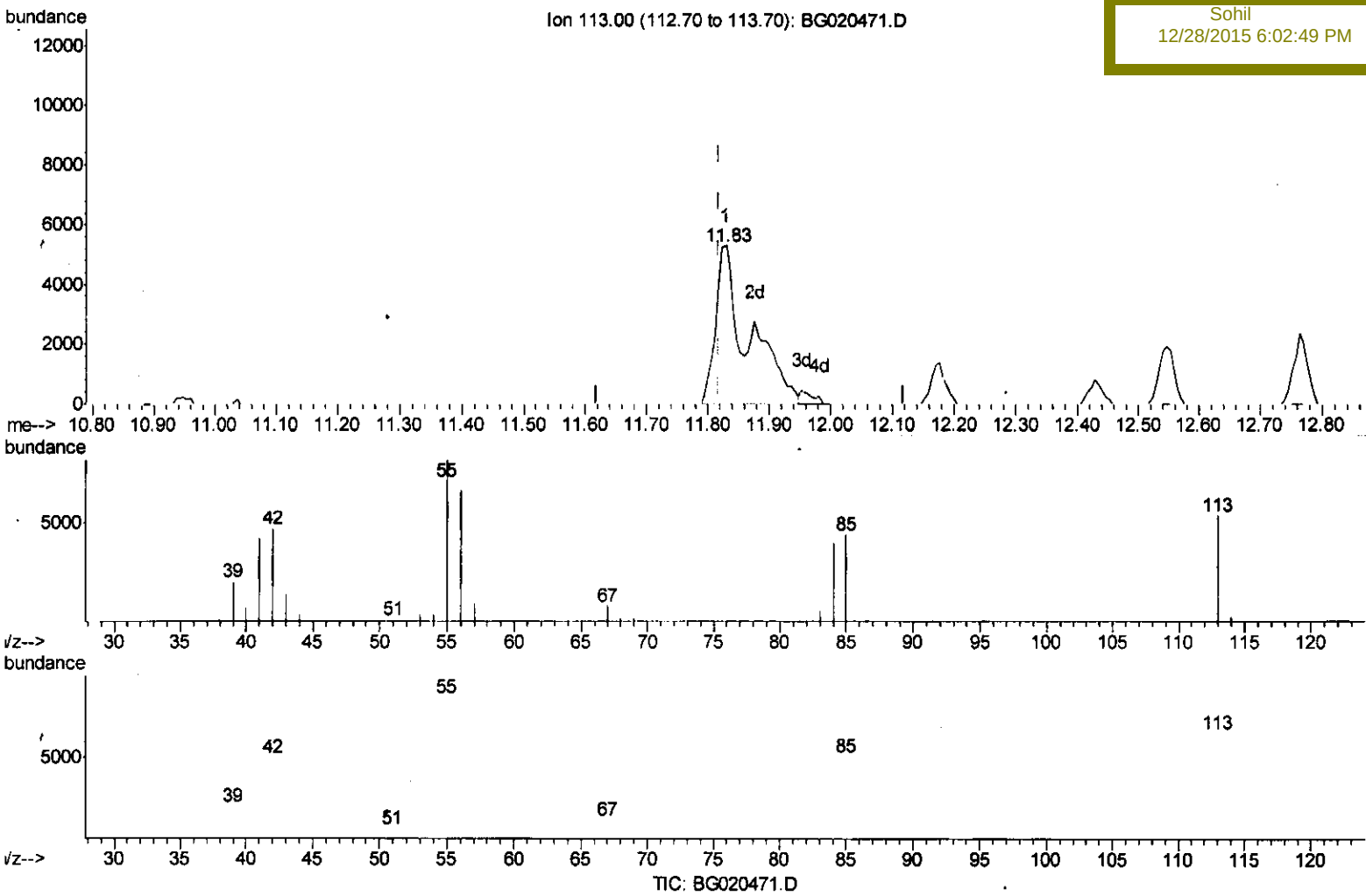
Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.72
125.00	7.20	5.95
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:47:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM



TIC: BG020471.D

(32) Caprolactam

11.829min (+0.012) 43.56ng/ul m

response 19105

U.M 12/25/15

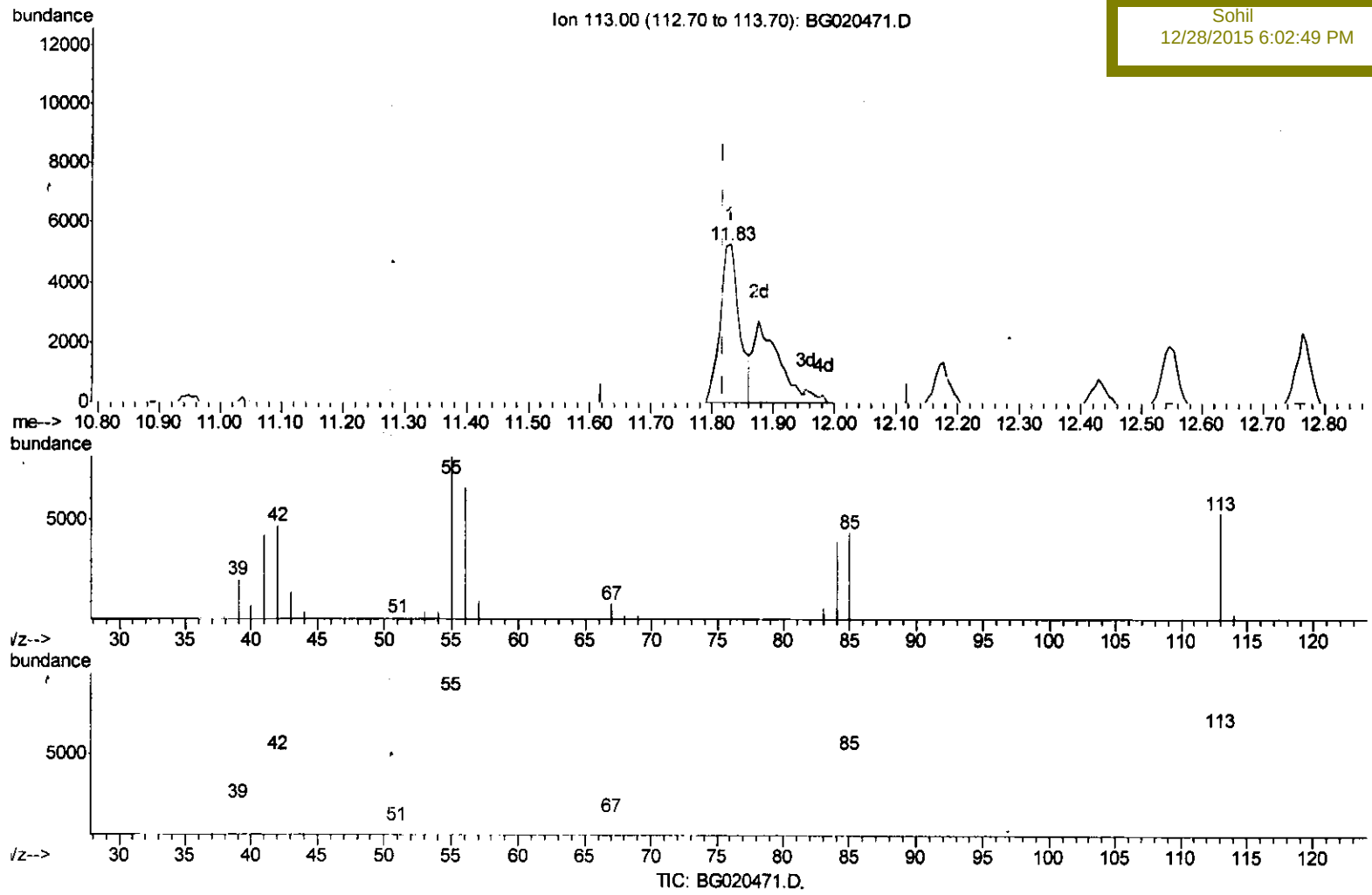
Ion	Exp%	Act%
113.00	100	100
55.00	165.10	151.58
56.00	129.10	123.02
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:47:08 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM



TIC: BG020471.D

(32) Caprolactam

11.829min (+0.012) 26.11ng/ul

response 11450

Ion	Exp%	Act%
113.00	100	100
55.00	165.10	151.58
56.00	129.10	123.02
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:49:28 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 1-Methylnaphthalene	12.76	142	126335	39.69	ng/ul	97
37) 1,2,4,5-Tetrachlorobenzene	12.91	216	95979	39.89	ng/ul	98
38) Hexachlorocyclopentadiene	12.89	237	53633	53.62	ng/ul	95
39) 2,4,6-Trichlorophenol	13.15	196	58382	41.93	ng/ul	98
40) 2,4,5-Trichlorophenol	13.23	196	63641	50.83	ng/ul	95
41) 1,1'-Biphenyl	13.55	154	182951	39.94	ng/ul	96
42) 2-Chloronaphthalene	13.59	162	146764	39.42	ng/ul	98
43) 2-Nitroaniline	13.80	65	44360	45.03	ng/ul	95
45) Dimethylphthalate	14.16	163	197922	39.41	ng/ul	99
46) 2,6-Dinitrotoluene	14.29	165	42623	43.67	ng/ul	98
48) Acenaphthylene	14.44	152	238005	39.74	ng/ul	99
49) 3-Nitroaniline	14.62	138	40584	44.91	ng/ul	90
50) Acenaphthene	14.78	153	160884	39.77	ng/ul	99
51) 2,4-Dinitrophenol	14.83	184	27461	61.20	ng/ul	93
53) 4-Nitrophenol	14.94	109	31257	49.18	ng/ul	94
54) Dibenzofuran	15.11	168	237912	39.34	ng/ul	97
55) 2,4-Dinitrotoluene	15.08	165	62342	41.88	ng/ul	92
56) 2,3,4,6-Tetrachlorophenol	15.34	232	63806	42.81	ng/ul#	98
57) Diethylphthalate	15.53	149	203660	39.60	ng/ul	98
59) Fluorene	15.76	166	192968	39.29	ng/ul	99
60) 4-Chlorophenyl-phenylether	15.75	204	110745	39.05	ng/ul	96
61) 4-Nitroaniline	15.79	138	44211	45.04	ng/ul	97
64) 4,6-Dinitro-2-methylphenol	15.84	198	45137	46.82	ng/ul	95
65) N-Nitrosodiphenylamine	15.96	169	173335	39.82	ng/ul	98
66) 4-Bromophenyl-phenylether	16.64	248	78558	41.19	ng/ul	98
67) Hexachlorobenzene	16.76	284	85639	39.41	ng/ul#	89
68) Atrazine	16.91	200	76733	40.34	ng/ul	99
69) Pentachlorophenol	17.11	266	46933	47.20	ng/ul	95
70) Phenanthrene	17.51	178	339993	38.01	ng/ul	100
72) Anthracene	17.59	178	346978	38.29	ng/ul	99
73) 1,2,3,4-Tetrachlorobenzene	13.52	216	104859	40.81	ng/uL	99
74) Pentachlorobenzene	15.03	250	95488	39.87	ng/uL	90
75) Carbazole	17.86	167	302475	39.99	ng/ul	99
76) Di-n-butylphthalate	18.41	149	347653	38.17	ng/ul	100
77) Fluoranthene	19.51	202	438925	37.98	ng/ul	97
80) Pyrene	19.87	202	442648	37.89	ng/ul	97
81) Butylbenzylphthalate	20.74	149	162869	40.57	ng/ul	93
82) 3,3'-Dichlorobenzidine	21.63	252	166416	41.46	ng/ul	96
83) Benzo(a)anthracene	21.72	228	465743	39.00	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.60	149	233612	39.47	ng/ul	99
85) Chrysene	21.78	228	437517	38.05	ng/ul	98
87) Di-n-octyl phthalate	22.83	149	406305	39.33	ng/ul	100
88) Benzo(b)fluoranthene	23.96	252	461747	38.83	ng/ul#	96
89) Benzo(k)fluoranthene	24.03	252	455699m	39.19	ng/ul	
91) Benzo(a)pyrene	24.85	252	444507	38.82	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.73	276	540553	39.99	ng/ul	95
93) Dibenzo(a,h)anthracene	28.80	278	453184	40.57	ng/ul	98
94) Benzo(g,h,i)perylene	29.91	276	443372	39.94	ng/ul	98

U.M 12/25/15

Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:49:28 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	20770	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	84747	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	58975	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	155103	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	199382	20.00	ng/ul	0.00
86) Perylene-d12	25.00	264	195663	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.45	96	6243	41.03	ng/uL	0.00
5) Phenol-d5	7.24	99	66362	43.80	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	40255	42.88	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	52643	42.33	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	56155	43.56	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	27466	41.93	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	32324	44.71	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	60541	42.35	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	71834	44.76	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	193618	39.16	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	224540	39.39	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	34382	49.09	ng/ul	0.00
58) Fluorene-d10	15.71	176	175176	39.19	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	41925	47.24	ng/ul	0.00
71) Anthracene-d10	17.56	188	288367	38.98	ng/ul	0.00
79) Pyrene-d10	19.84	212	347148	39.67	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	394721	39.71	ng/ul	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.49	88	6881	39.86	ng/uL	97
4) Benzaldehyde	7.21	77	44902	42.91	ng/ul	97
6) Phenol	7.26	94	70219	44.98	ng/ul	99
8) Bis(2-Chloroethyl)ether	7.49	93	52890	43.33	ng/ul	95
10) 2-Chlorophenol	7.64	128	54572	41.69	ng/ul	97
11) 2-Methylphenol	8.52	108	54194	44.52	ng/ul	97
12) 2,2'-oxybis(1-Chloropropan	8.61	45	66027	40.70	ng/ul	96
14) Acetophenone	8.91	105	89976	42.20	ng/ul	95
15) N-Nitroso-di-n-propylamine	8.89	70	46433	41.86	ng/ul	97
16) 4-Methylphenol	8.86	108	58325	43.09	ng/ul	94
17) Hexachloroethane	9.17	117	22941	41.06	ng/ul	99
20) Nitrobenzene	9.29	77	67998	41.29	ng/ul	98
21) Isophorone	9.81	82	126451	40.52	ng/ul	99
23) 2-Nitrophenol	10.01	139	33498	43.37	ng/ul	93
24) 2,4-Dimethylphenol	10.06	107	70109	42.18	ng/ul	98
25) Bis(2-Chloroethoxy)methane	10.30	93	69121	39.64	ng/ul	95
27) 2,4-Dichlorophenol	10.54	162	61958	42.28	ng/ul	96
28) Naphthalene	10.95	128	179624	39.39	ng/ul	99
30) 4-Chloroaniline	11.05	127	71618	43.78	ng/ul	97
31) Hexachlorobutadiene	11.22	225	51231	40.83	ng/ul	96
32) Caprolactam	11.83	113	19105m→	43.56	ng/ul	
33) 4-Chloro-3-methylphenol	12.18	107	65509	42.77	ng/ul	93
34) 2-Methylnaphthalene	12.55	142	133627	40.01	ng/ul	96

U.M 12/25/15

Data Path : Z:\HPCHEM1\BNA_G\Data\BG122415\
Data File : BG020471.D
Acq On : 24 Dec 2015 12:09
Operator : UM/SJ
Sample : SSTD04004
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 24 12:49:28 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 24 12:16:41 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD04004

Manual Integrations APPROVED
Sohil
12/28/2015 6:02:49 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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