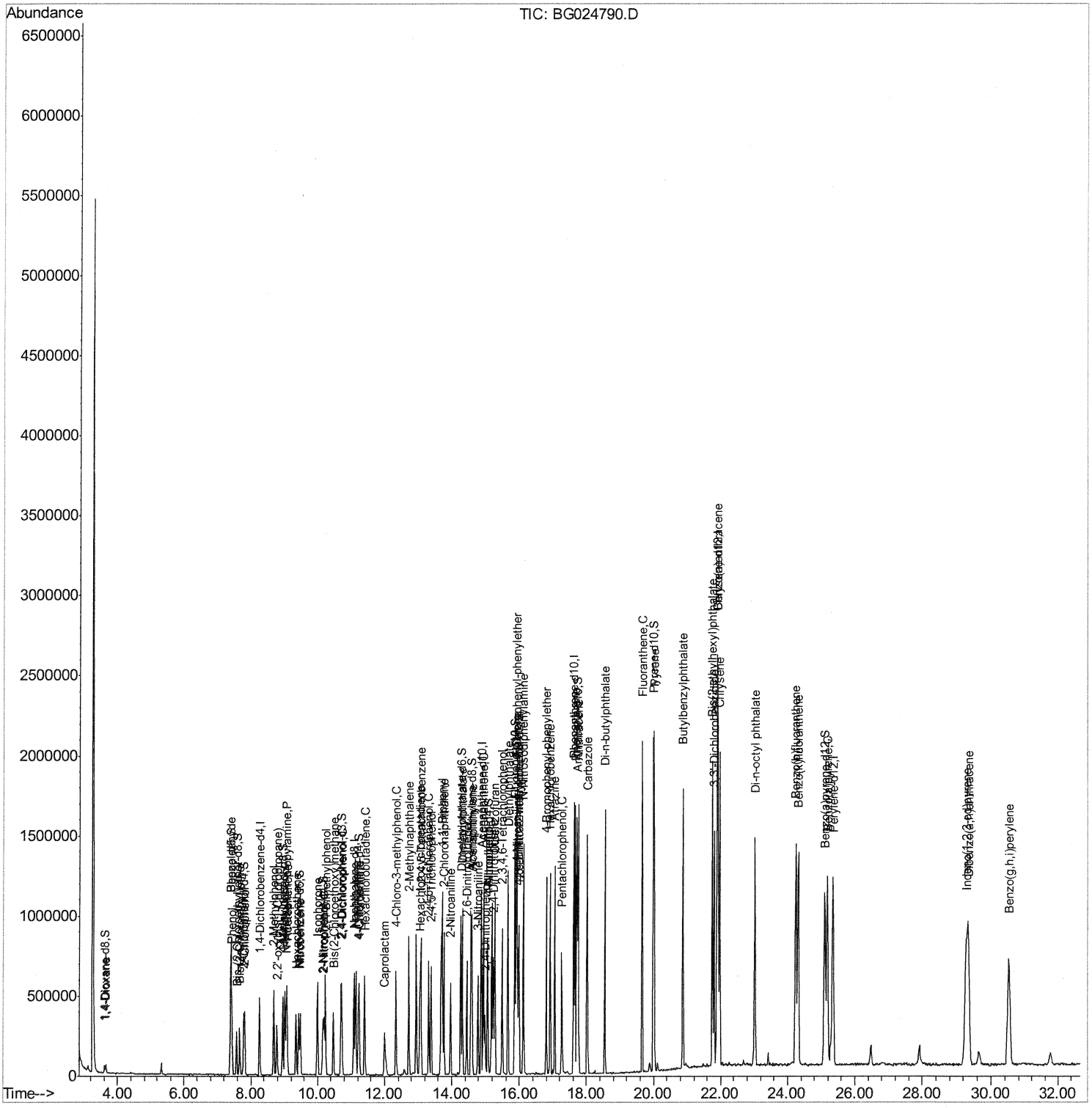
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:57:51 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM

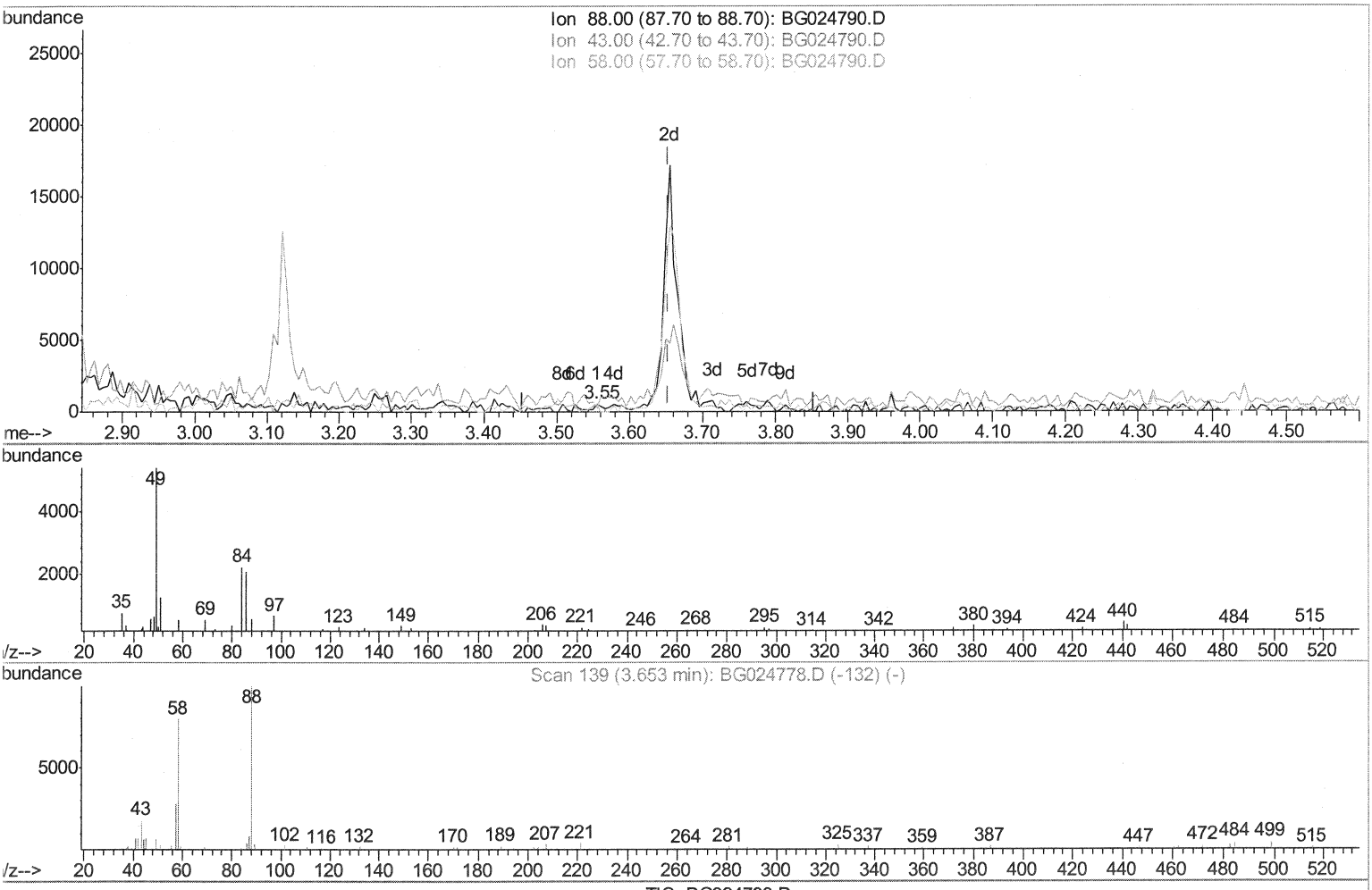


Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM



TIC: BG024790.D

(2) 1,4-Dioxane

3.555min (-0.099) 0.15ng/uL

response 475

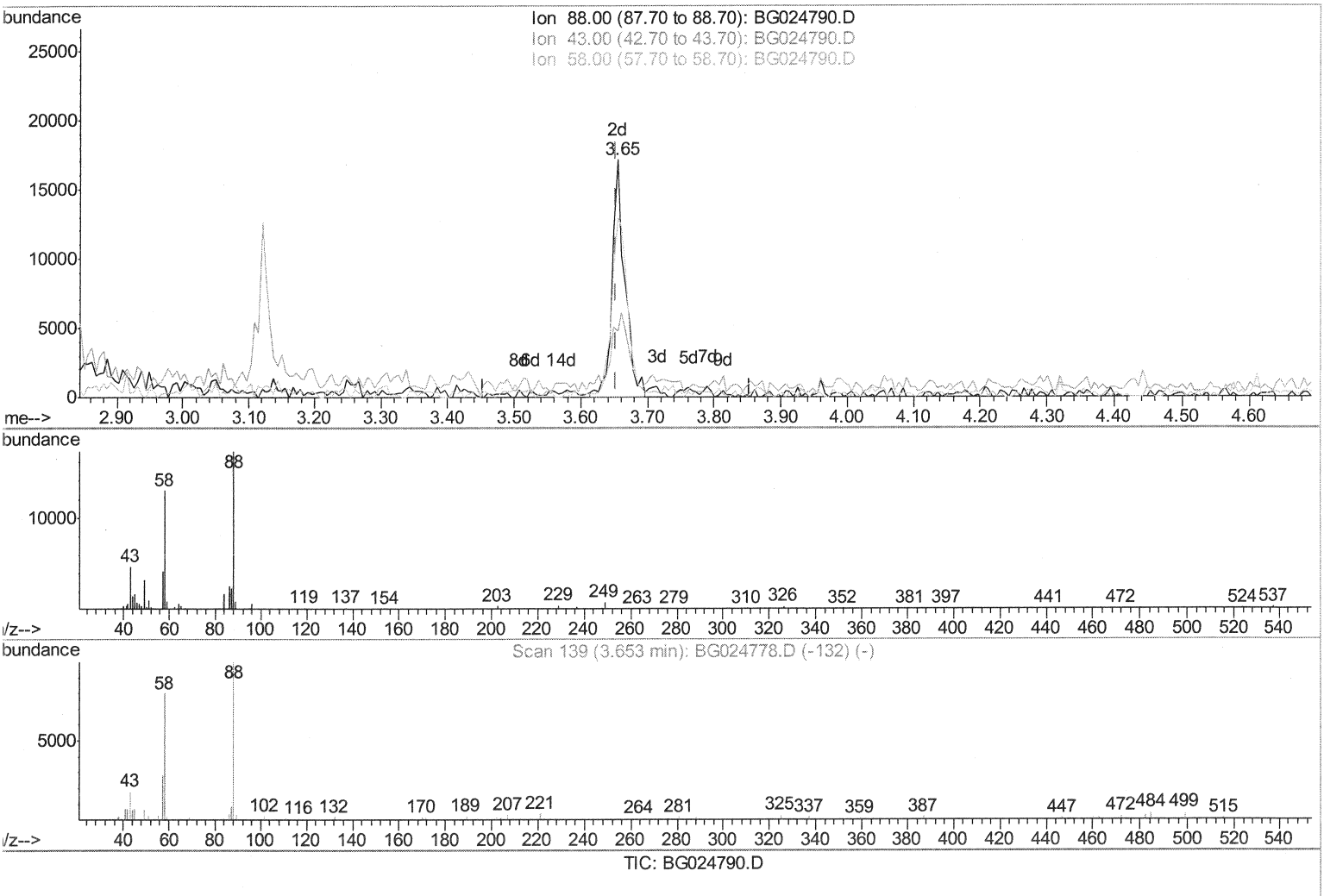
Ion	Exp%	Act%
88.00	100	100
43.00	49.00	41.67
58.00	86.70	94.20
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM



TIC: BG024790.D

(2) 1,4-Dioxane

3.655min (+0.001) 7.37ng/uL m

response 22943

Ion	Exp%	Act%
88.00	100	100
43.00	49.00	27.52#
58.00	86.70	75.29
0.00	0.00	0.00

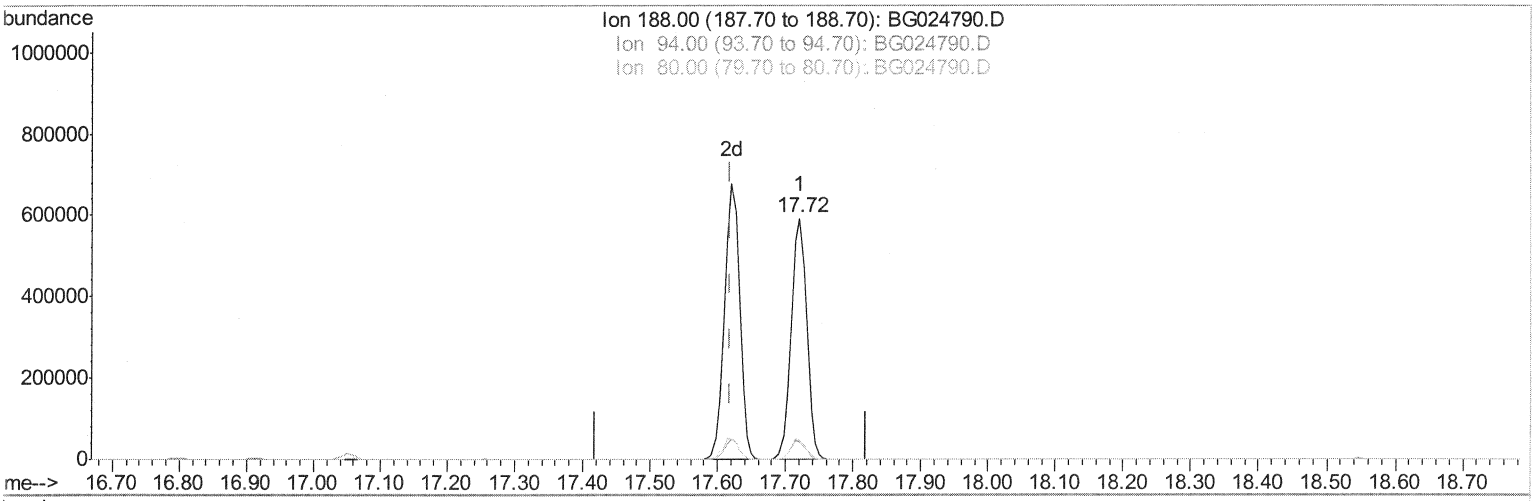
UM
11/16/16

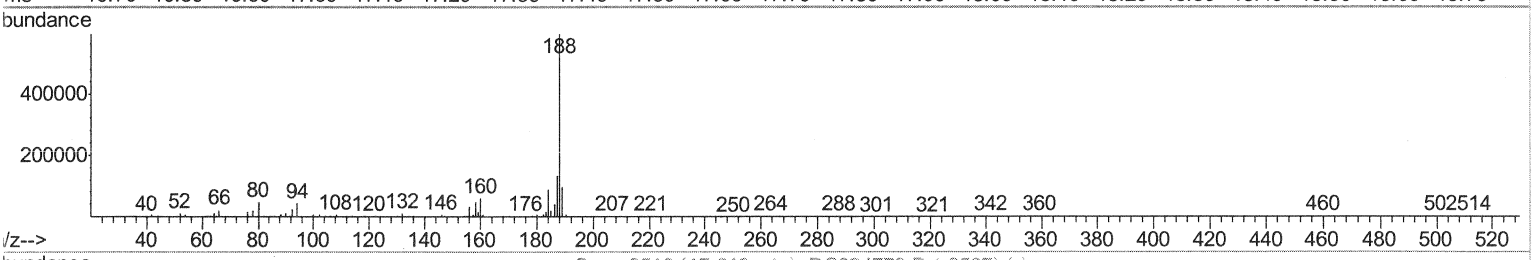
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

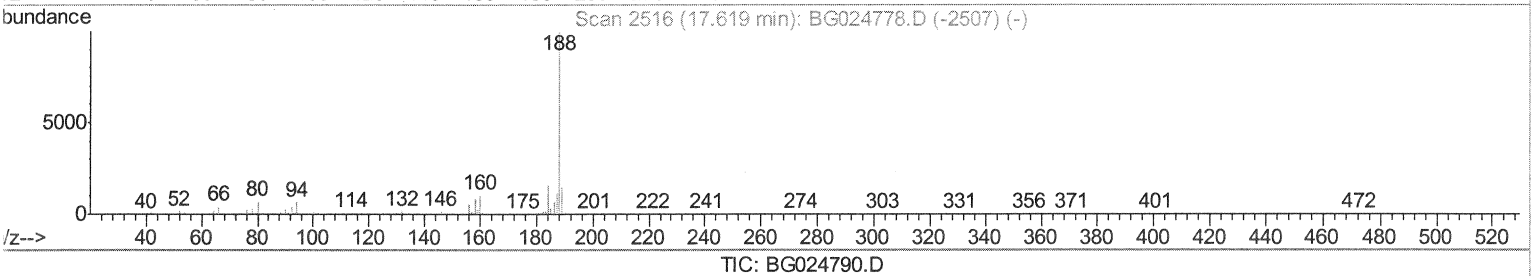
Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM







TIC: BG024790.D

(61) Phenanthrene-d10 (I)

17.721min (+0.101) 20.00ng/ul

response 933008

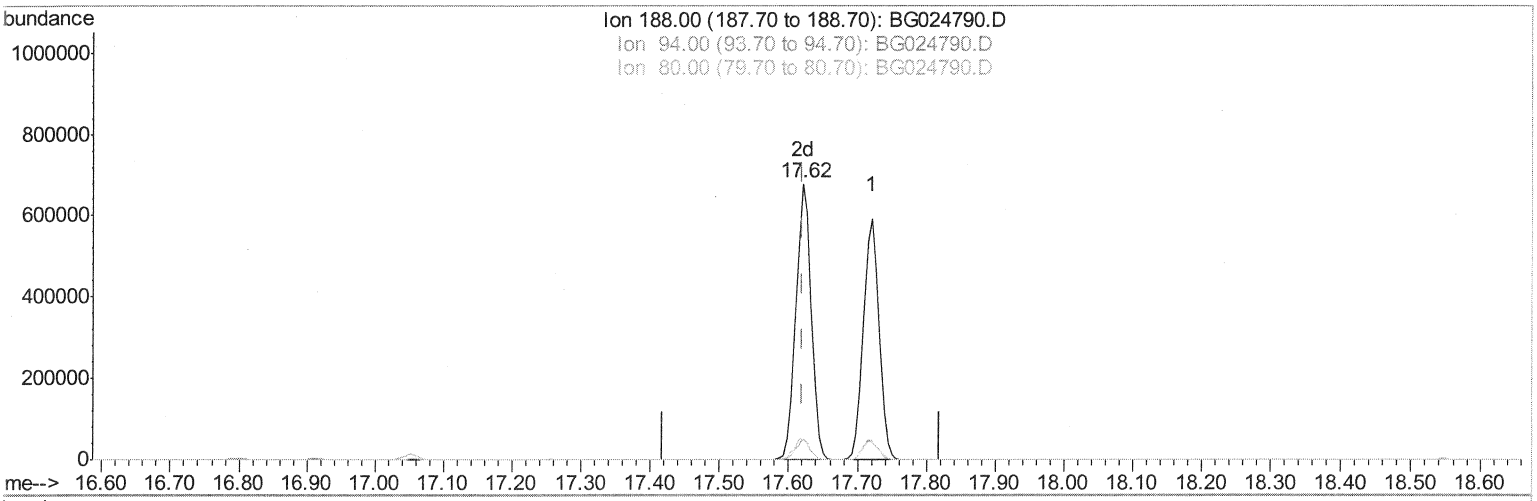
Ion	Exp%	Act%
188.00	100	100
94.00	8.80	7.52
80.00	9.50	8.01
0.00	0.00	0.00

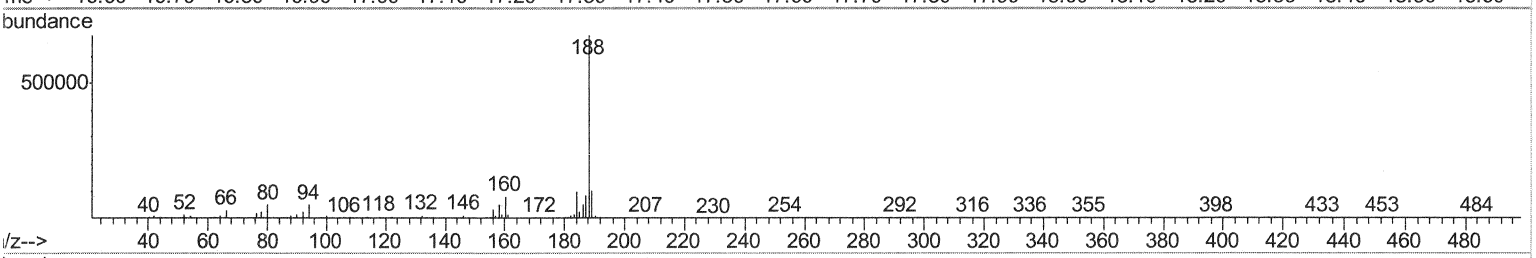
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

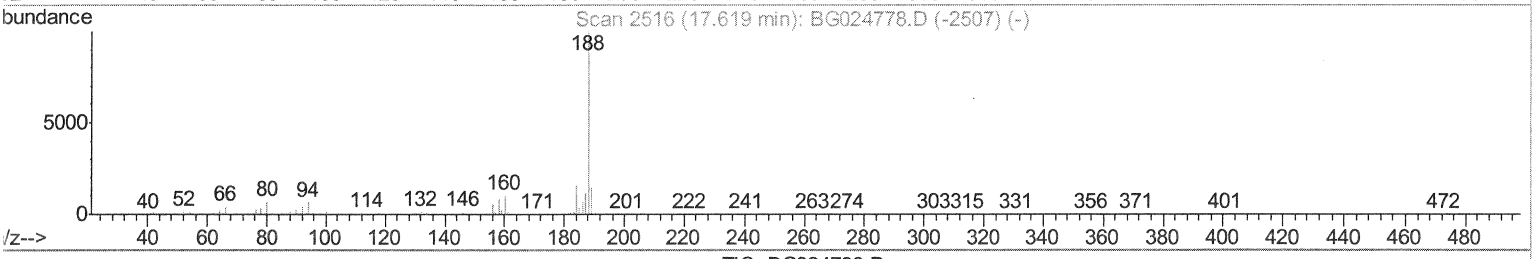
Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM







TIC: BG024790.D

(61) Phenanthrene-d10 (I)

17.621min (+0.001) 20.00ng/ul m

response 1056060

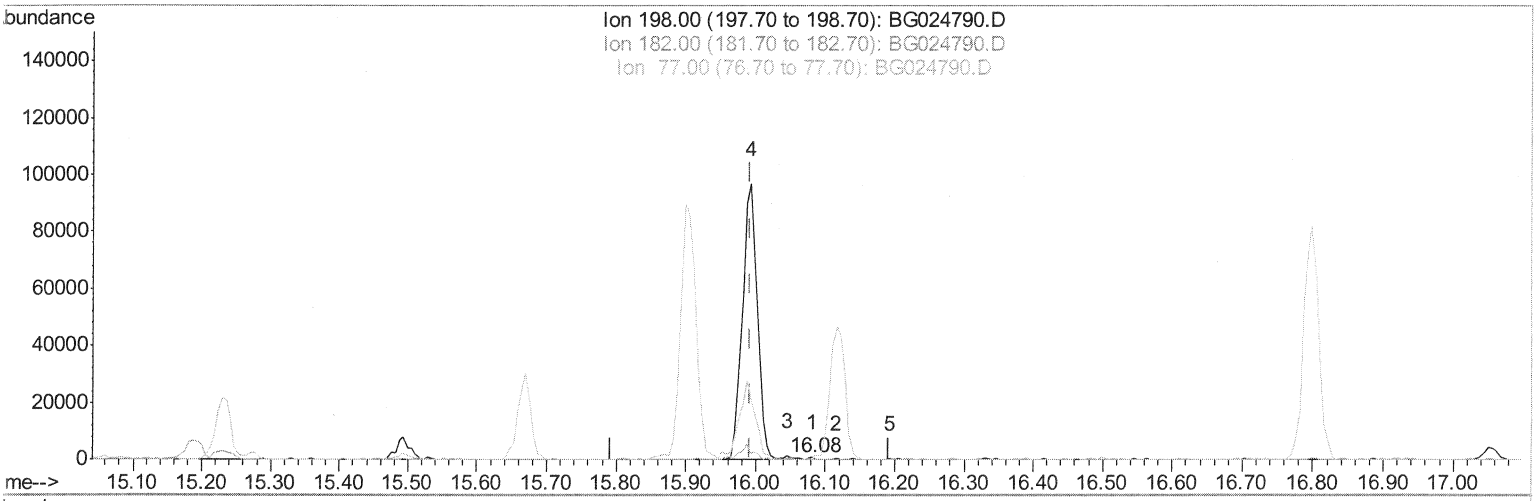
Ion	Exp%	Act%
188.00	100	100
94.00	8.80	7.34
80.00	9.50	7.30#
0.00	0.00	0.00

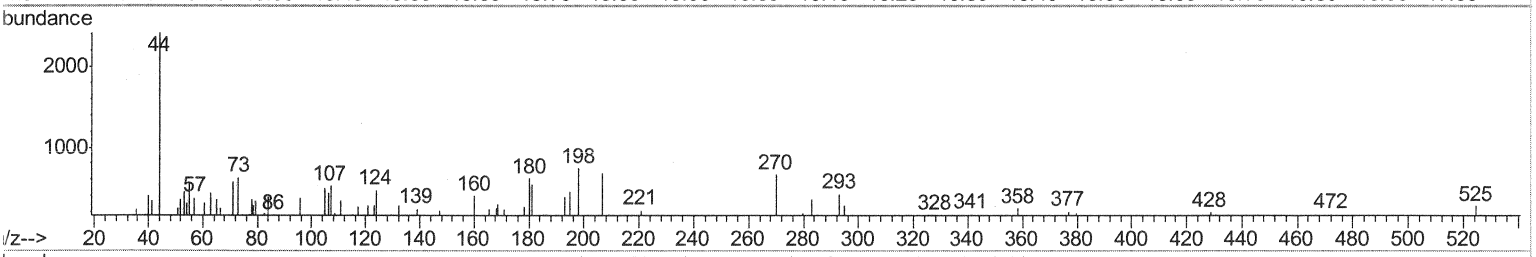
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

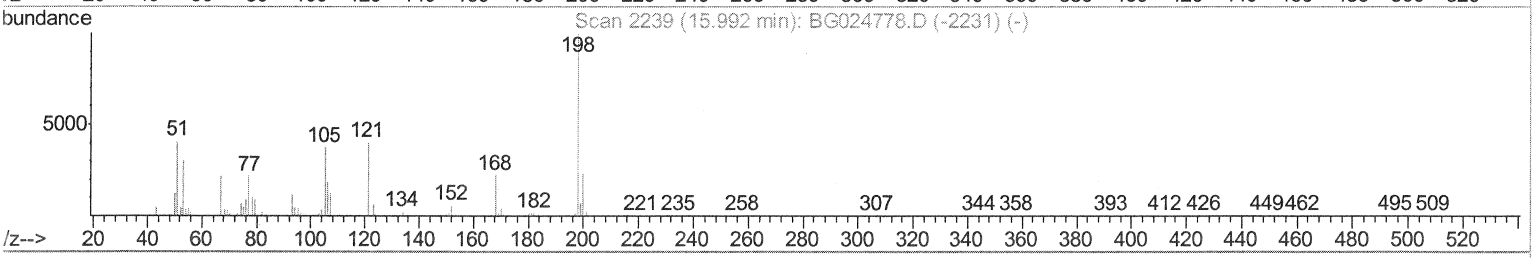
Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM







TIC: BG024790.D

(63) 4,6-Dinitro-2-methylphenol

16.081min (+0.090) 0.06ng/ul

response 430

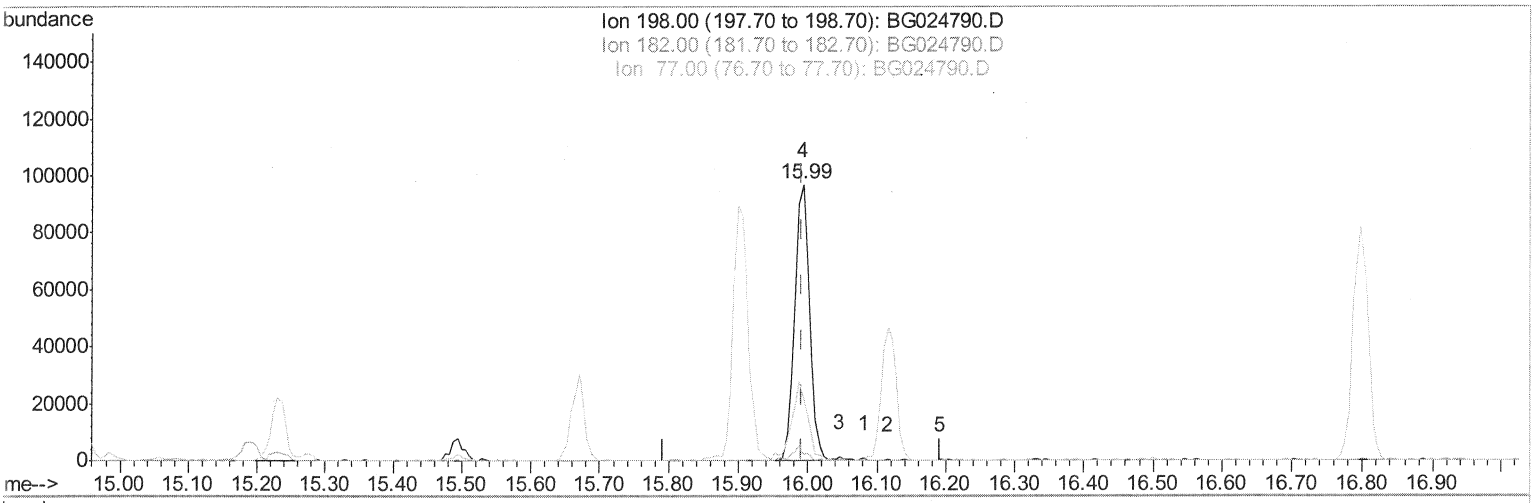
Ion	Exp%	Act%
198.00	100	100
182.00	6.10	0.00#
77.00	28.00	22.18
0.00	0.00	0.00

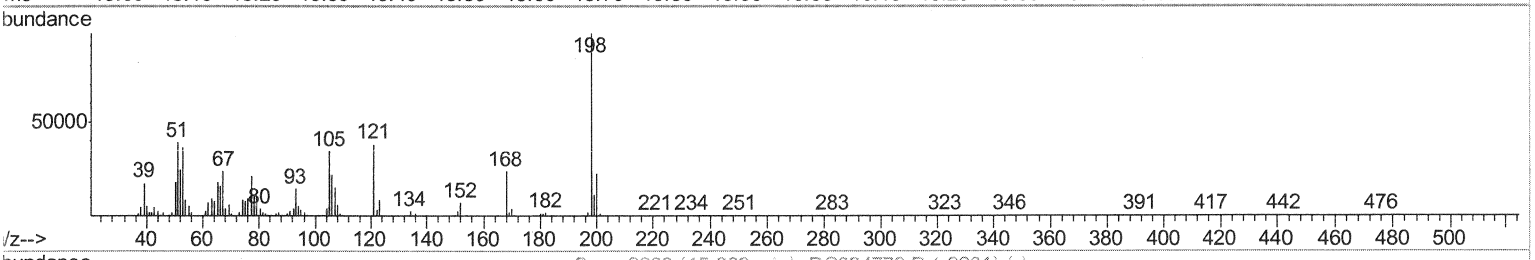
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

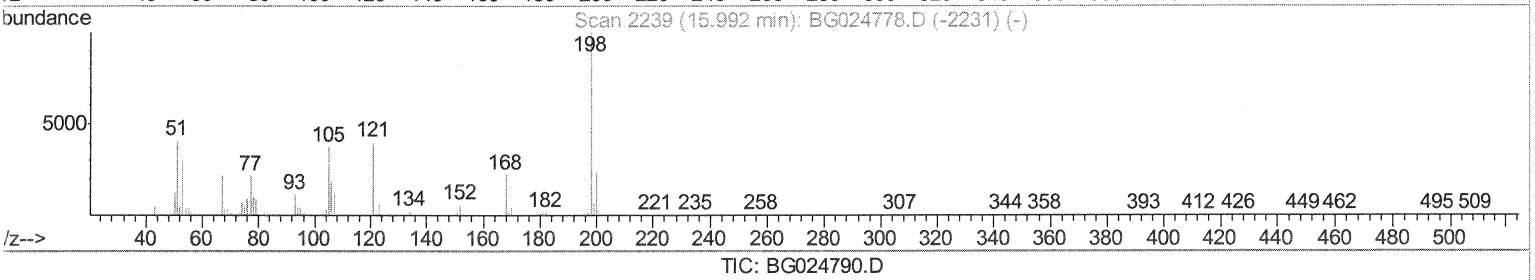
Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM







TIC: BG024790.D

(63) 4,6-Dinitro-2-methylphenol

15.993min (+0.001) 19.64ng/ul m

response 144606

Ion	Exp%	Act%
198.00	100	100
182.00	6.10	2.10#
77.00	28.00	22.12#
0.00	0.00	0.00

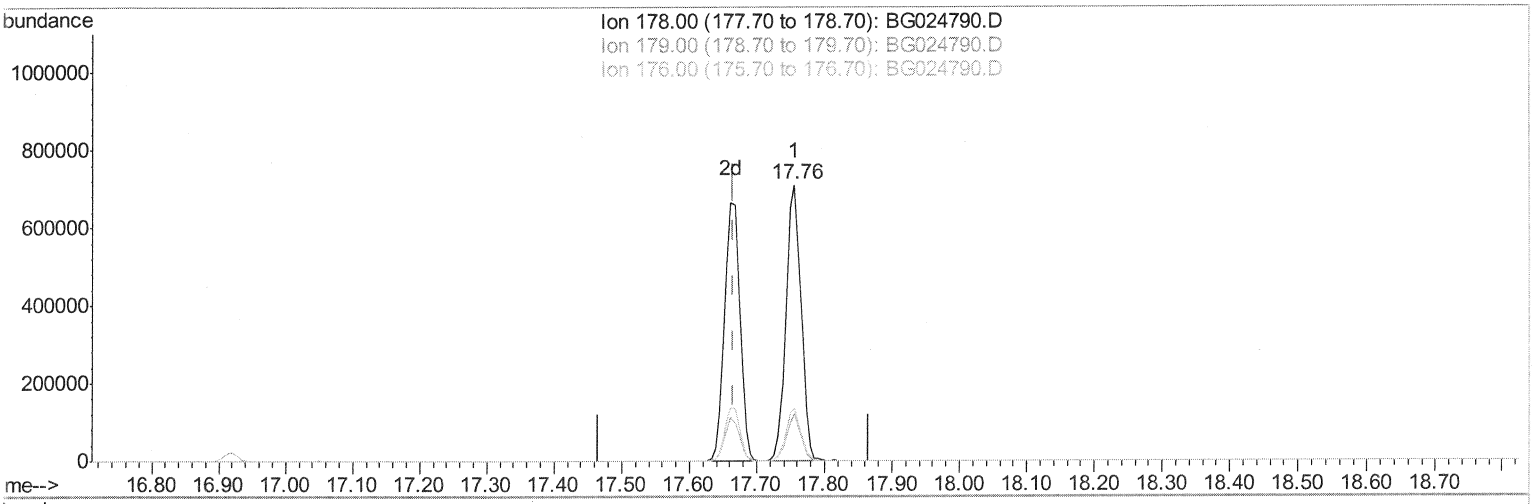
UM
11/16/16

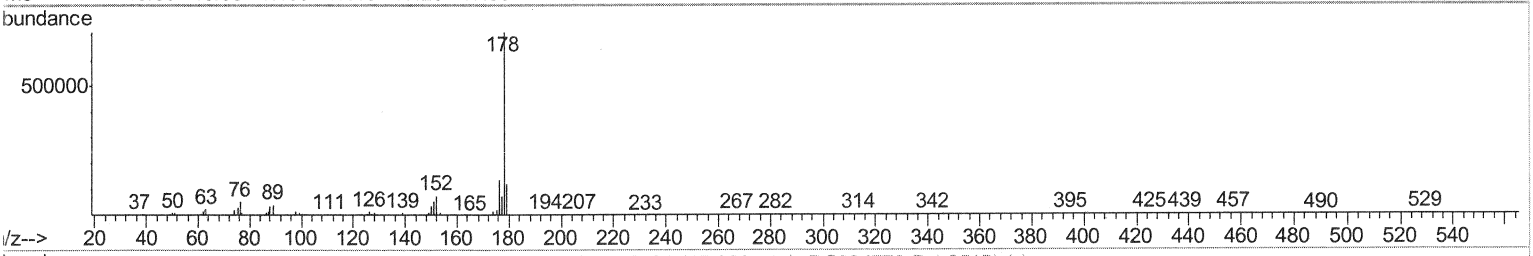
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

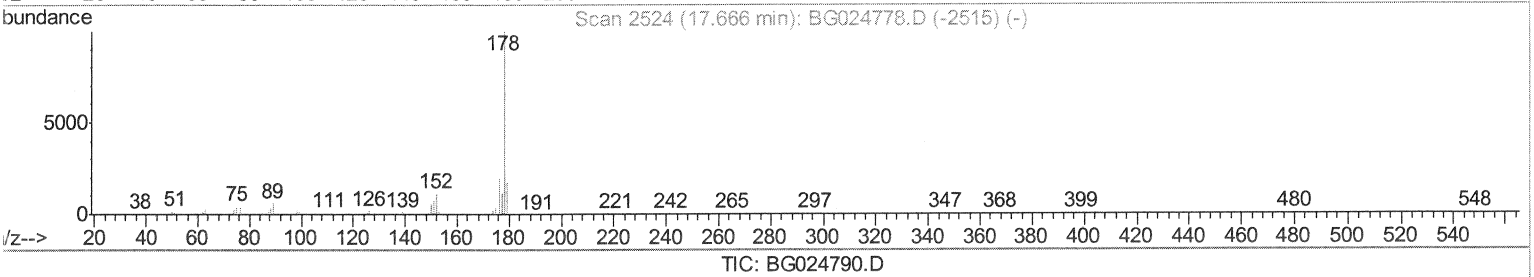
Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM







TIC: BG024790.D

(69) Phenanthrene

17.756min (+0.090) 20.80ng/ul

response 1095190

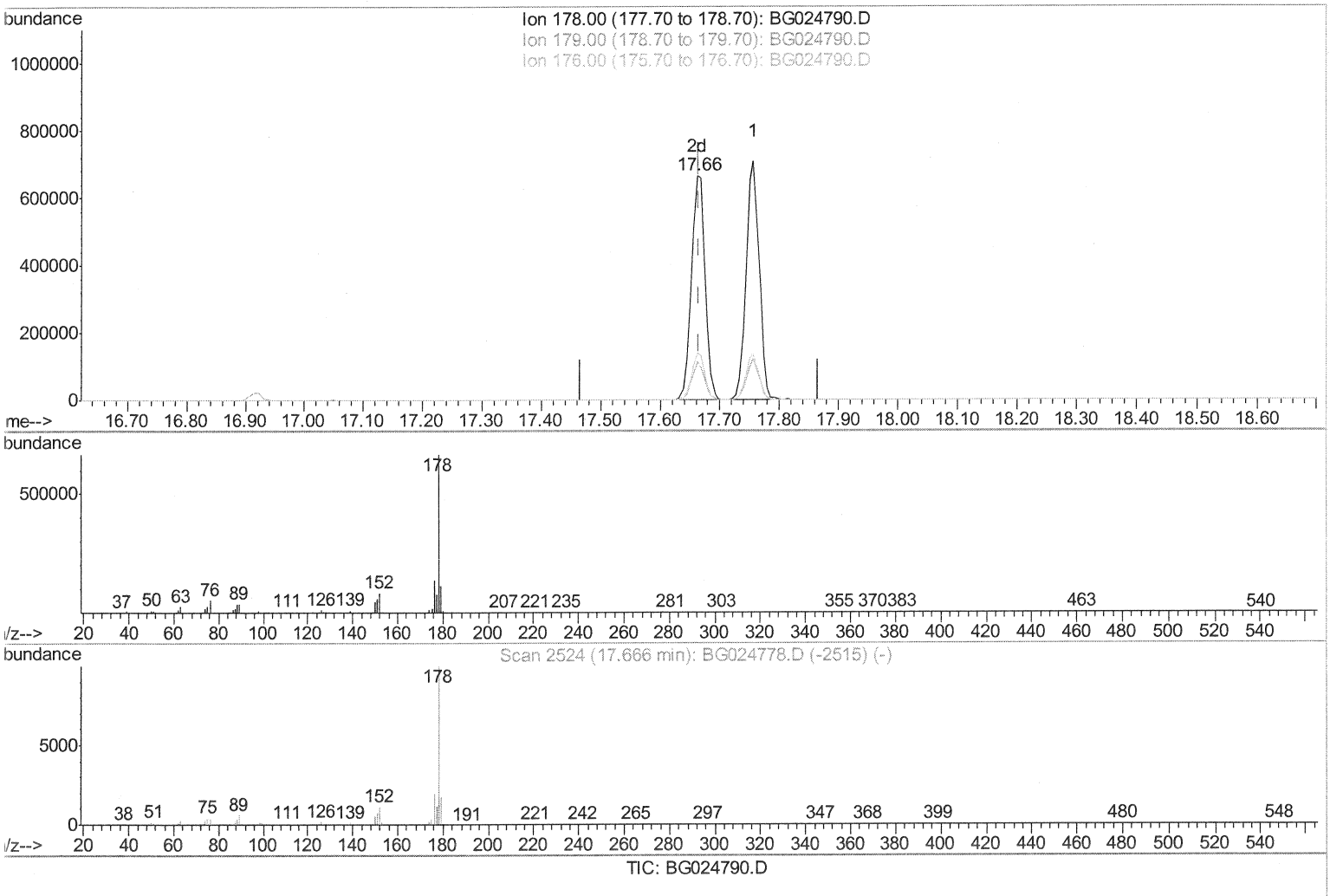
Ion	Exp%	Act%
178.00	100	100
179.00	15.50	17.08
176.00	20.60	19.31
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:42:21 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM



TIC: BG024790.D

(69) Phenanthrene

17.662min (-0.004) 20.26ng/ul m

response 1066540

UM
11/16/16

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	17.16
176.00	20.60	20.85
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:57:51 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,4-Dichlorobenzene-d4	8.26	152	128693	20.00	ng/ul	0.00	
18) Naphthalene-d8	11.09	136	519810	20.00	ng/ul	0.00	
35) Acenaphthene-d10	14.88	164	447847	20.00	ng/ul	0.00	
61) Phenanthrene-d10	17.62	188	1056060m	20.00	ng/ul	0.00	UM 11/16/16
75) Chrysene-d12	21.92	240	1365729	20.00	ng/ul	0.00	
83) Perylene-d12	25.35	264	1433974	20.00	ng/ul	0.00	
System Monitoring Compounds							
3) 1,4-Dioxane-d8	3.62	96	22584	9.09	ng/uL	0.00	
5) Phenol-d5	7.40	99	221999	20.14	ng/ul	0.00	
7) Bis-(2-Chloroethyl)ether-d	7.57	67	139082	20.05	ng/ul	0.00	
9) 2-Chlorophenol-d4	7.79	132	155777	19.70	ng/ul	0.00	
13) 4-Methylphenol-d8	8.95	113	178977	19.33	ng/ul	0.00	
19) Nitrobenzene-d5	9.44	128	80257	20.39	ng/ul	0.00	
22) 2-Nitrophenol-d4	10.16	143	95623	20.35	ng/ul	0.00	
26) 2,4-Dichlorophenol-d3	10.70	165	190898	20.41	ng/ul	0.00	
29) 4-Chloroaniline-d4	11.22	131	221184	21.17	ng/ul	0.00	
43) Dimethylphthalate-d6	14.27	166	648737	19.87	ng/ul	0.00	
46) Acenaphthylene-d8	14.58	160	711823	20.00	ng/ul	0.00	
51) 4-Nitrophenol-d4	15.06	143	117682	20.25	ng/ul	0.00	
57) Fluorene-d10	15.86	176	609337	19.83	ng/ul	0.00	
62) 4,6-Dinitro-2-methylphenol	15.98	200	137550	18.95	ng/ul	0.00	
70) Anthracene-d10	17.72	188	933186	20.01	ng/ul	0.00	
76) Pyrene-d10	19.99	212	1192759	20.14	ng/ul	0.00	
87) Benzo(a)pyrene-d12	25.11	264	1293459	20.61	ng/ul	0.00	
Target Compounds						Qvalue	
2) 1,4-Dioxane	3.65	88	22943m	7.37	ng/uL		UM 11/16/16
4) Benzaldehyde	7.39	77	172837	24.34	ng/ul	90	
6) Phenol	7.42	94	230746	20.04	ng/ul	92	
8) Bis(2-Chloroethyl)ether	7.67	93	165407	20.18	ng/ul	94	
10) 2-Chlorophenol	7.81	128	159115	20.81	ng/ul#	85	
11) 2-Methylphenol	8.69	108	164892	19.54	ng/ul	88	
12) 2,2'-oxybis(1-Chloropropan	8.78	45	284061	20.41	ng/ul	99	
14) Acetophenone	9.09	105	272689	19.56	ng/ul	95	
15) N-Nitroso-di-n-propylamine	9.06	70	152662	19.27	ng/ul#	94	
16) 4-Methylphenol	9.02	108	184224	20.18	ng/ul	94	
17) Hexachloroethane	9.35	117	67182	19.19	ng/ul	91	
20) Nitrobenzene	9.48	77	233110	19.95	ng/ul	97	
21) Isophorone	9.99	82	442985	20.33	ng/ul#	93	
23) 2-Nitrophenol	10.19	139	98060	20.66	ng/ul#	80	
24) 2,4-Dimethylphenol	10.23	107	221198	19.62	ng/ul	95	
25) Bis(2-Chloroethoxy)methane	10.48	93	235450	20.57	ng/ul	97	
27) 2,4-Dichlorophenol	10.72	162	187913	20.97	ng/ul#	89	
28) Naphthalene	11.14	128	506744	20.33	ng/ul	97	
30) 4-Chloroaniline	11.25	127	216795	21.51	ng/ul	90	
31) Hexachlorobutadiene	11.40	225	157005	19.96	ng/ul#	91	
32) Caprolactam	12.00	113	73178	20.71	ng/ul	88	
33) 4-Chloro-3-methylphenol	12.34	107	226319	20.86	ng/ul	98	
34) 2-Methylnaphthalene	12.72	142	400660	20.42	ng/ul	96	

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111516\
Data File : BG024790.D
Acq On : 15 Nov 2016 10:02
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 16:57:51 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Nov 15 14:41:04 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02010

Manual Integrations APPROVED
Umangi
11/15/2016 6:27:49 PM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	13.08	216	287386	19.78 ng/ul#	93
37) Hexachlorocyclopentadiene	13.06	237	179978	19.22 ng/ul	97
38) 2,4,6-Trichlorophenol	13.32	196	176634	19.98 ng/ul	94
39) 2,4,5-Trichlorophenol	13.39	196	196122	20.42 ng/ul	96
40) 1,1'-Biphenyl	13.71	154	570050	19.78 ng/ul	98
41) 2-Chloronaphthalene	13.77	162	438974	19.60 ng/ul	98
42) 2-Nitroaniline	13.97	65	178984	20.15 ng/ul	96
44) Dimethylphthalate	14.32	163	638194	20.37 ng/ul#	98
45) 2,6-Dinitrotoluene	14.45	165	139167	21.14 ng/ul	95
47) Acenaphthylene	14.61	152	686444	19.93 ng/ul	98
48) 3-Nitroaniline	14.78	138	125399	20.61 ng/ul#	81
49) Acenaphthene	14.94	153	486259	19.94 ng/ul	96
50) 2,4-Dinitrophenol	14.99	184	89490	18.99 ng/ul#	84
52) 4-Nitrophenol	15.07	109	140589	20.21 ng/ul	91
53) Dibenzofuran	15.28	168	743756	19.94 ng/ul	99
54) 2,4-Dinitrotoluene	15.23	165	202988	20.38 ng/ul	99
55) 2,3,4,6-Tetrachlorophenol	15.49	232	201304	20.14 ng/ul#	96
56) Diethylphthalate	15.67	149	672914	20.22 ng/ul	97
58) Fluorene	15.92	166	601610	19.86 ng/ul	100
59) 4-Chlorophenyl-phenylether	15.91	204	345099	20.15 ng/ul	91
60) 4-Nitroaniline	15.94	138	137406	19.85 ng/ul	96
63) 4,6-Dinitro-2-methylphenol	15.99	198	144606m	19.64 ng/ul	
64) N-Nitrosodiphenylamine	16.12	169	559577	19.61 ng/ul	96
65) 4-Bromophenyl-phenylether	16.80	248	255907	19.93 ng/ul	93
66) Hexachlorobenzene	16.92	284	288087	20.27 ng/ul	97
67) Atrazine	17.06	200	269665	20.16 ng/ul	98
68) Pentachlorophenol	17.26	266	156975	18.71 ng/ul	96
69) Phenanthrene	17.66	178	1066540m	20.26 ng/ul	
71) Anthracene	17.76	178	1094591	20.10 ng/ul	98
72) Carbazole	18.02	167	946530	21.19 ng/ul	99
73) Di-n-butylphthalate	18.55	149	1117008	19.85 ng/ul	99
74) Fluoranthene	19.66	202	1376931	22.52 ng/ul	98
77) Pyrene	20.02	202	1370784	20.42 ng/ul	99
78) Butylbenzylphthalate	20.88	149	536667	19.53 ng/ul	97
79) 3,3'-Dichlorobenzidine	21.80	252	558596	21.27 ng/ul	97
80) Benzo(a)anthracene	21.90	228	1494179	20.10 ng/ul	97
81) Bis(2-ethylhexyl)phthalate	21.75	149	742120	19.74 ng/ul	99
82) Chrysene	21.97	228	1403630	20.14 ng/ul	97
84) Di-n-octyl phthalate	23.03	149	1288698	21.23 ng/ul	100
85) Benzo(b)fluoranthene	24.24	252	1516019	20.07 ng/ul	98
86) Benzo(k)fluoranthene	24.32	252	1497182	20.86 ng/ul	98
88) Benzo(a)pyrene	25.18	252	1472056	20.13 ng/ul	98
89) Indeno(1,2,3-cd)pyrene	29.28	276	1862375	20.37 ng/ul	98
90) Dibenzo(a,h)anthracene	29.35	278	1561147	20.50 ng/ul	95
91) Benzo(g,h,i)perylene	30.52	276	1543693	20.50 ng/ul	95

UM 11/16/16

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