Electronic Supplementary Material (ESI) for ChemComm.
This journal is © The Royal Society of Chemistry 2015

Electronic Supporting Information

for

Differentiation among peroxide explosives with an optoelectronic nose

Zheng Li, Will P. Bassett, Jon R. Askim and Kenneth S. Suslick*

Department of Chemistry, University of Illinois at Urbana-Champaign,
600 S. Mathews Ave., Urbana, Illinois 61801, USA.
E-mail: ksuslick@illinois.edu

Table of Contents

1. Experimental Section

Materials, Instruments and Methods

Array preparation. All reagents were analytical-reagent grade, purchased from Sigma-Aldrich and used as received. Preparation and printing of colorimetric sensor arrays have been described in detail elsewhere.[1] The chemoresponsive dyes used in each spot is elaborated in Table S1 along with a color-coded legend indicating the expected chemical reactivity of each spot; visualized image captured by handheld device is shown in Fig. S1.

Handheld reader details. The experimental setup using the handheld imaging device is shown in Fig. S2. The construction and specifications of the portable reader used in this study is shown in the recently published work.[2] Raw data was normalized using a calibration created from a one-time measurement of a 0% reflectance standard (i.e., the sensor array with all LEDs turned off) and a 100% reflectance standard (i.e., a blank array without any sensor dyes printed).

Array response. For visualization, difference maps were constructed by taking the absolute value of the reflectance measurements before and during exposure and scaling a relevant color range (3-10 in this work) to the 8-bit color scale (i.e., 0-255); for all statistical analyses, the actual values of the reflectance measurements were used without modification. For S/N measurements, signal and noise were calculated for each data channel using all trials in the data set (i.e., red, green, and blue values of 40 sensor elements; 120 dimensions in total); signals for each channel were defined as the difference between each analyte trial measurement (analyte-n) and the average of the non-exposed controls (e.g., $R_{analyte\text{-}n} - R_{control\text{-}avg}$) and noise was defined as the standard deviation among the control data (e.g., $\sigma_R^2 = \Sigma_n(R_{control\text{-}n} - R_{control\text{-}avg})^2/(N\text{-}1)$); quintuplicate trials were taken.

TATP/HMTD synthesis. *Caution:* **TATP and HMTD are extremely sensitive explosives!** TATP was prepared according to the prior publications at reduced scale (<100 mg). Nine TATP samples were synthesized combinatorically from three peroxide sources (30% H_2O_2, sodium percarbonate, and urea peroxide) with the addition of equimolar acetone (200 μL), catalyzed by one of three acid catalysts (12 M HCl, 9 M H_2SO_4, and 16 M HNO_3); reactions were run behind a blast shield in a glass vial cooled in an ice bath. The vial was left in the ice bath for 20 min during which a white powder formed. The solid was filtered using filter paper in a porcelain funnel and 1 mL deionized water was added 3 times to rinse the product during filtration (rinsing effect is shown in Fig. S3). The powder was dried under air suction, stored in a snap-cap vial (*Caution:* **Do not use screw cap vials; powder left on the screw threads are an explosion hazard**), and stored in a freezer to reduce the sublimation. ^{1}H NMR of TATP-1 match those reported in the literature:[3] ($CDCl_3$, 500 MHz): 1.31 (s); 1.46 (s); 1.79 (s). Three HMTD samples were all obtained by dissolving 233 mg hexamethylenetetramine in 1.23 g 30% H_2O_2 and stirring them in the ice bath, and then 328 mg citric acid was added and the mixture was stirred for 3 hours at room temperature. The source of hexamethylenetetramine (HA) came from one of three sources: analytical reagent HA for HMTD-1, HA from solid fuel cubes used for camping stoves (Esbit GmbH, Hamburg) for HMTD-2, or HA synthesized[4] from formaldehyde and ammonium hydroxide (HMTD-3); the precipitate was rinsed with water and methanol respectively during filtration. ^{1}H NMR of HMTD-1 ($CDCl_3$, 500 MHz): 4.81 (s).

Instruments. NMR was performed on a Varian U500 500 MHz spectrometer. PXRD data were collected on a Siemens/Bruker D-5000 X-ray diffractometer (Aubrey, TX) operated at 40 kV and 30 mA using Cu Kα readiation (wavelength 1.5418 Å) with a continuous scan rate of 2^o/min. For safety reasons, grinding was not applied to these energetic materials. SPME sampling was performed using polydimethylsiloxane/divinylbenzene (Supelco, Bellefonte, PA) fibers. The screw thread SPME vials (32 x 12 mm) were fitted with Teflon septa and loaded with 5 mg of each sample and then extracted for 1 min. GC-MS experiments were carried out using an Agilent 7890A GC/5975C MS (Agilent Technologies, Santa Clara, CA) equipped with a flame ionization detector (FID) and 5975C mass selective detector. The injector temperature was kept at 120 ^{o}C and analytes were desorbed for 2 min onto a ZB-WAX column. The carrier gas was helium (1 mL/min). For each GC trial on TATP, the initial oven temperature was maintained at 100 ^{o}C for 2 min, increased at a ramp rate of 10 ^{o}C/min to 200 ^{o}C for 10 min; total run time was 12 min. Because HMTD decomposes at 75 ^{o}C,[5] for GC trials of HMTD, the initial oven temperature started at 40 ^{o}C for 2 min, increased at a ramp rate of 2.5 ^{o}C/min to 70 ^{o}C for 12 min; total run time was 14 min. The GC-MS built-in NIST libraries (2008 edition) were used to interpret the mass spectra.

Table S1 Colorimetric sensor array sensor spot compositions (top) and color coded category legend (bottom).

#	Name	#	Name
1	FeCl2 + Nile Red + TsOH	21	HgCl2 + Bromophenol Blue
2	α-Naphthyl Red + TsOH	22	LiNO3 + Bromocresol Green
3	Tetraiodophenolsulfonephthalein + TsOH	23	$AgNO_3$ + Bromocresol Green
4	Pyrocatechol Violet + TsOH	24	Pb(OAc)2 + Disperse Red
5	Bromocresol Green + TsOH	25	Bromophenol Blue + TBAH
6	Methyl Red + TsOH	26	Methyl Red + TBAH
7	Bromocresol Purple + TsOH	27	Chlorophenol Red + TBAH
8	DNPH + Pararosaniline + TsOH	28	Nitrazine Yellow + TBAH
9	DNPH + Pararosaniline + TsOH	29	Bromothymol Blue + TBAH
10	DNPH + Pararosaniline + TsOH	30	Thymol Blue + TBAH
11	FeCl2 + Nile Red	31	m-Cresol Purple + TBAH
12	ZnTPP	32	N,N'-diphenyl-1,4-diphenyldiamine + TBAH
13	ZnTMP	33	tolidine + TBAH
14	CoTMP	34	o-dianisidine + TBAH
15	CdTPP	35	Nile Red
16	Bromophenol Red	36	Nile Red
17	Bromophenol Blue	37	Merocyanine 540
18	Nile Red	38	1-ethyl-4-(2-hydroxystyryl)pyridinium iodide
19	Acridine Orange Base	39	TBAH
20	Zn(NO3)2 + Bromophenol Blue	40	Methylene Blue

What	How	Why
DNPH spot	Brady reaction	Ketones and Aldehydes
Locator spot	None, though spot may have other reactivity	Slide edge
Metal salts	Metal complexation	Ligands
pH indicators	pH and lewis acidity/basicity	Acidic/Basic compounds
Porphyrins	Ligation	Ligands
Redox-sensitive dyes	Fenton chemistry / other oxidation	Redox compounds
Solvatochromic dyes	Solvatochromism	Solvents
Strong base	Meisenheimer adduct formation	Nitroaromatics

TsOH = p-toluenesulfonic acid (1M in 2-methoxyethanol); TBAH = tetrabutylammonium hydroxide (40% in H_2O); DNPH = 2,4-dinitrophenylhydrazine.

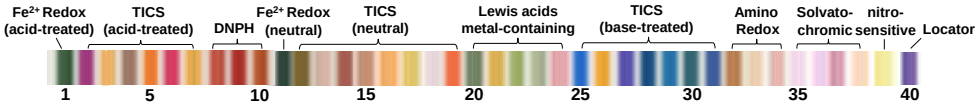

Fig. S1 Image of the 40-element colorimetric sensor array generated from the linear color contact image sensor (CIS).

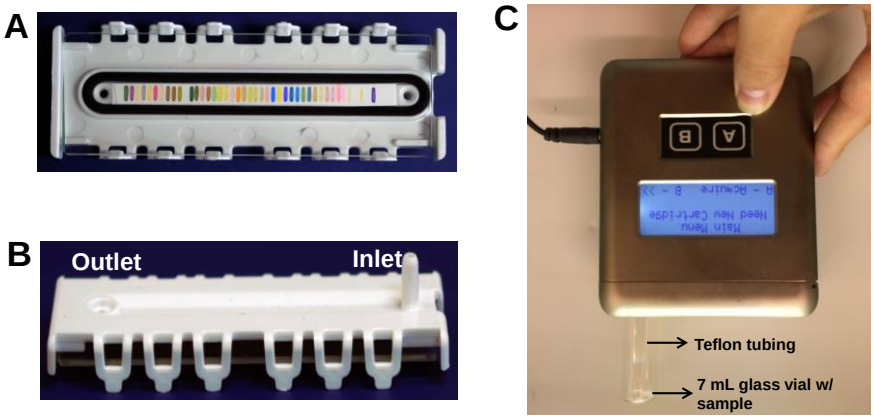

Fig. S2 Colorimetric sensor array cartridge and portable handheld device. **(A)** Cartridge front view (7.9 x 2.8 x 1.0 cm). **(B)** Cartridge side view. **(C)** Handheld scanner (12.8 x 9.5 x 4.0 cm). Prior to analyte headspace sampling, the array was equilibrated to the ambient atmosphere for 2 minutes. The feed tube was then inserted into a 7 mL glass vial for headspace sampling, and measurements were collected after 2 minutes of exposure to sample headspace at a flow rate of ~580 cm^3/minute (sccm).

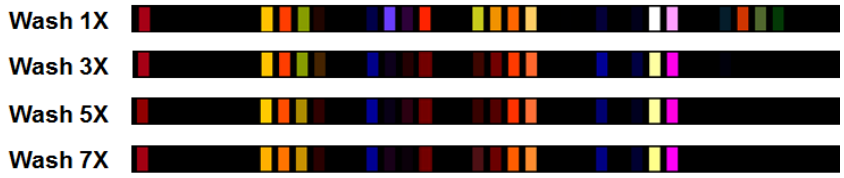

Fig. S3 Color difference map of the array response to TATP prepared from 30% H_2O_2 and acetone with H_2SO_4 (i.e., TATP-2) as the catalyst as the function of washing times. Washing the sample at least three times with deionized water gives a lower level of volatiles.

2. Aging Effects on TATP and HMTD

Peroxide explosives are inherently unstable and therefore aging can have significant effects that could potentially affect the accuracy of detection and identification. To investigate the influence of sample aging on sensor array response, two representative TATP (TATP-1 and 5) and one HMTD (HMTD-1) samples were tested in triplicate at defined aging periods (3, 7, 15 and 30 days, stored in a freezer at -10°C to avoid sublimation). The average difference maps, histogram of total array responses, and HCA dendrogram show little change as a function of aging time (Fig. S4 and S5).

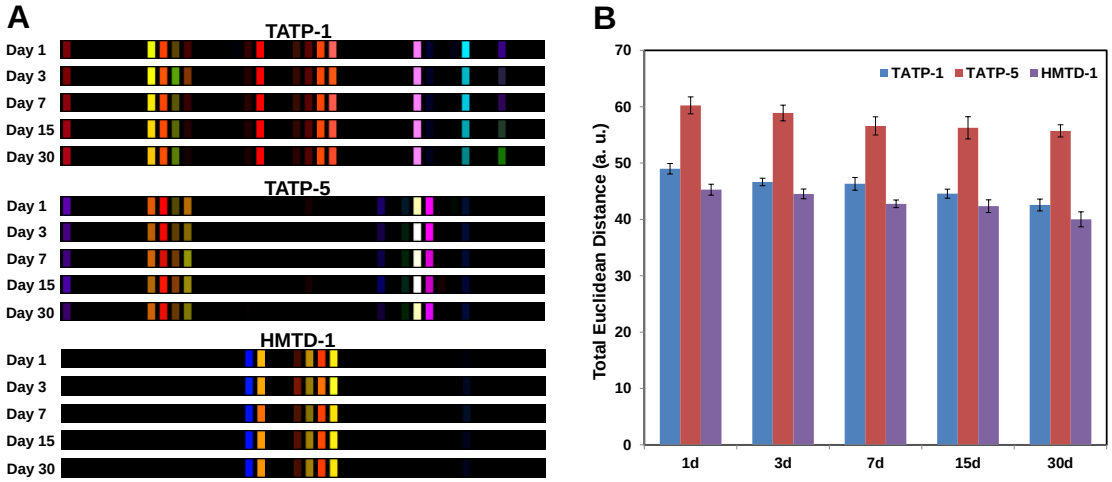

Fig. S4 Aging effect on three representative peroxides. **(A)** Scaled color difference maps of four representative analytes with different aging periods (1, 3, 7, 15 and 30 days of aging). **(B)** Bar graphs showing the total Euclidean distance of four peroxide-based analytes with different aging period.

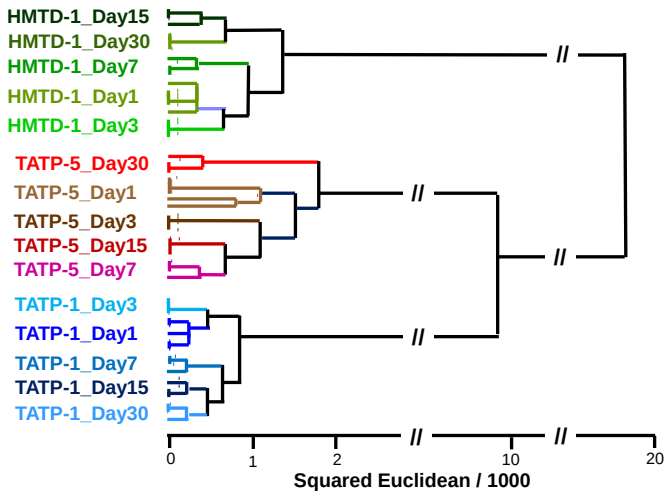

Fig. S5 Dendrogram showing the hierarchical cluster analysis (HCA) of three representative peroxide samples with different aging periods (1, 3, 7, 15 and 30 days). Each sample was tested at the bulk sample size of 10 mg.

3. PXRD data

It has been previously reported that there are six crystalline polymorphs of TATP. The kinetically favoured polymorph precipitates first and it will subsequently transform into a thermodynamically more stable phase upon standing due to sublimation and recrystallization of crystals;[6] additionally, reactants with high ionic strength facilitate the precipitation of the kinetic crystalline phase.[3] Our PXRD results for TATP synthesized from H_2O_2 (shown in Fig. S8) are in general accord with the published studies. Freshly prepared samples match the PXRD of the kinetic polymorph reasonably well, while aged samples resemble the thermodynamic product (Fig. S8A); peak intensities are not a perfect match (especially for TATP 1-3 aged samples) because our samples have not been ground to a fine powder (for safety reasons), which may lead to preferred orientations of the crystallites. Both aged and fresh crystalline powders of TATP produced from percarbonate and urea peroxide reagents give PXRD patterns that consistently match the kinetic phase (Fig. S8B and S8C). As for HMTD, PXRD patterns of both fresh and aged products (Fig. S8D) clearly indicate the presence of crystalline HMTD.

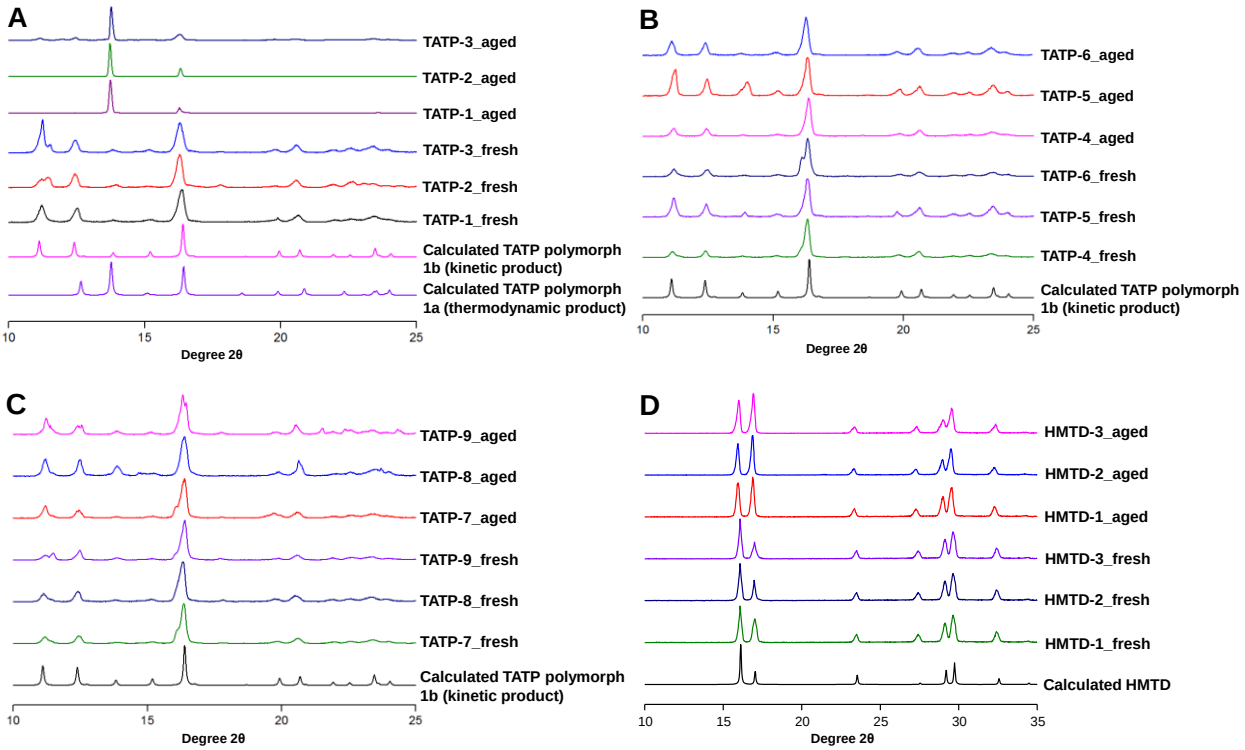

Fig. S6 PXRD patterns of both fresh (aged for 1 day) and aged (aged for 30 days) TATP samples from **(A)** H_2O_2, **(B)** sodium percarbonate and **(C)** urea peroxide; **(D)** PXRD patterns of fresh and aged HMTD samples. All XRD spectra as synthesized were compared to the calculated ones.

4. HCA and SVM Analyses

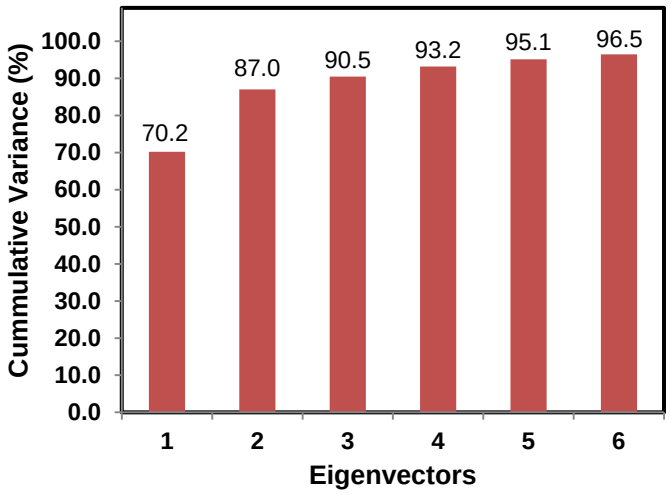

Fig. S7 Principal component scree plot. Five dimensions are required to capture 95% of the total variance in the database of array response to the 12 analytes presented in Table 1.

Table S2 SVM classification results using leave-one-out cross-validation of twelve peroxides. The column of accuracy shown for each analyte represents the percentage of correctly classified analytes among five independent trials.

Analyte	Accuracy	Analyte	Accuracy
TATP-1	100% (5/5)	HMTD-1	100% (5/5)
TATP-2	100% (5/5)	HMTD-2	100% (5/5)
TATP-3	100% (5/5)	HMTD-3	100% (5/5)
TATP-4	100% (5/5)		
TATP-5	100% (5/5)		
TATP-6	100% (5/5)		
TATP-7	100% (5/5)		
TATP-8	100% (5/5)		
TATP-9	100% (5/5)		

5. SPME GC-MS analyses

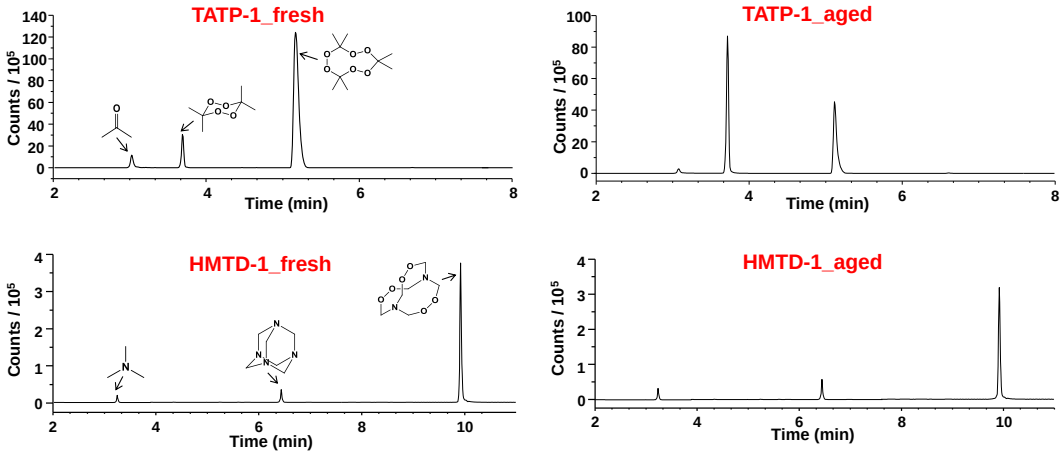

Fig. S7 SPME GC spectra of fresh and aged TATP-1 and HMTD-1 samples.

Table S3 Peak areas of SPME GC spectra representing relative content of each component in both fresh (aging for 1 day) and aged (aging for 30 days) peroxides.

Analyte	Fresh sample counts			Aged sample counts		
	Acetone	DADP	TATP	Acetone	DADP	TATP
TATP-1	$2.61x10^3$	$9.80x10^4$	$3.85x10^5$	$9.41x10^2$	$3.02x10^5$	$1.68x10^5$
TATP-2	$2.99x10^3$	$1.44x10^5$	$3.27x10^5$	$8.83x10^2$	$2.46x10^5$	$2.21x10^5$
TATP-3	$3.28x10^3$	$1.59x10^5$	$3.16x10^5$	$1.24x10^3$	$2.60x10^5$	$2.24x10^5$
TATP-4	$1.45x10^3$	$3.65x10^3$	$4.77x10^5$	$1.22x10^3$	$1.87x10^4$	$4.49x10^5$
TATP-5	$2.58x10^3$	$5.35x10^3$	$4.80x10^5$	$1.36x10^3$	$1.61x10^4$	$4.52x10^5$
TATP-6	$1.73x10^3$	$1.74x10^4$	$4.65x10^5$	$1.21x10^3$	$3.18x10^4$	$4.26x10^5$
TATP-7	$2.35x10^3$	$1.79x10^4$	$4.78x10^5$	$1.27x10^3$	$2.17x10^5$	$2.60x10^5$
TATP-8	$2.68x10^3$	$1.56x10^4$	$4.86x10^5$	$1.05x10^3$	$2.19x10^5$	$2.51x10^5$
TATP-9	$2.71x10^3$	$1.62x10^4$	$4.92x10^5$	$1.38x10^3$	$2.14x10^5$	$2.93x10^5$

	TMA	Hexamine	HMTD	TMA	Hexamine	HMTD
HMTD-1	$5.83x10^2$	$1.43x10^3$	$1.42x10^4$	$7.11x10^2$	$1.78x10^3$	$1.34x10^4$
HMTD-2	$4.92x10^2$	$1.33x10^3$	$1.46x10^4$	$8.39x10^2$	$1.86x10^3$	$1.31x10^4$
HMTD-3	$5.67x10^2$	$1.59x10^3$	$1.32x10^4$	$9.04x10^2$	$1.93x10^3$	$1.26x10^4$

6. Detection Limit and Interferents Test

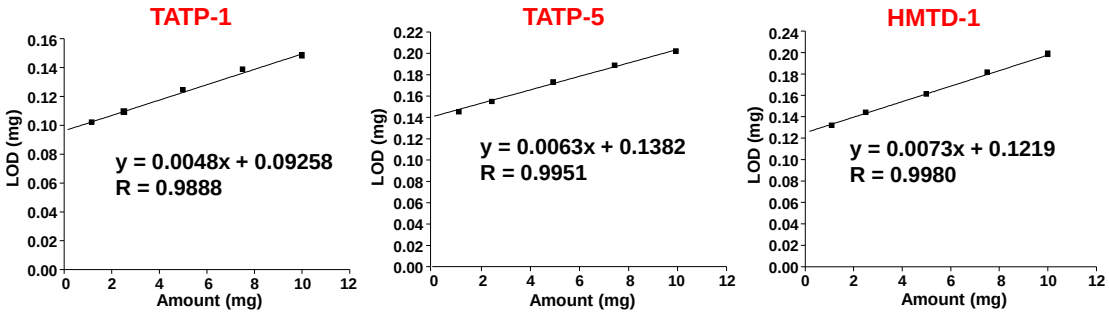

Fig. S9 Extrapolated curves for the LOD calculation of TATP-1, TATP-5 and HMTD-1 using the open air vial sampling procedure described above. Sample mass ranges from 1 to 10 mg. The LODs are estimated to be 90, 140 and 120 µg respectively.

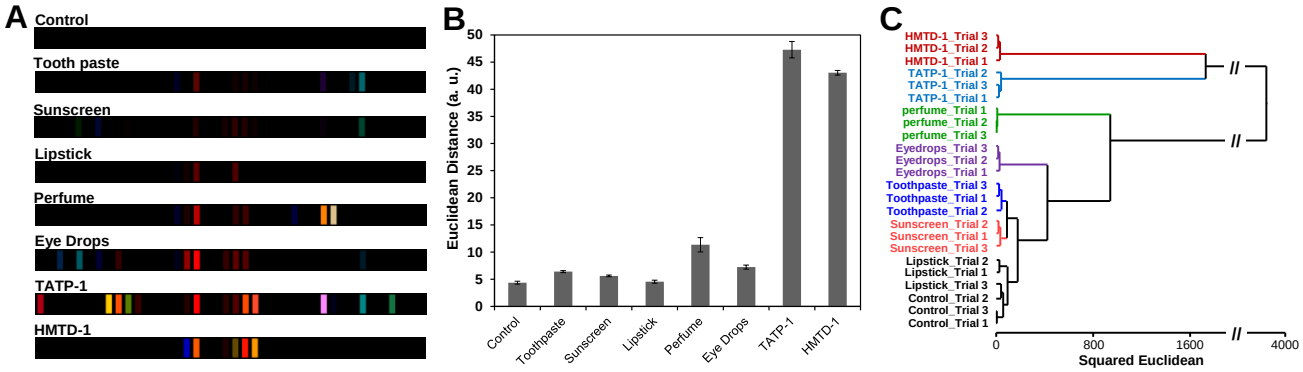

Fig. S10 Interferents tests. Interferents used here include: toothpaste (Crest®, complete multi-benefit whitening); sunscreen (Neutrogena®, ultra sheer sunscreen SPF 45); lipstick (M.A.C. Matte, Russian red); perfume (Chanel®, allure homme sport); eye drops (Thera Tears®, lubricant eye drops). **(A)** Scaled color difference maps of five representative interferents showing signal-to-noise (S/N) ratio. S/N ratios of 3-10 were scaled for display on an 8-bit RGB color scale (i.e., 0-255). **(B)** Total Euclidean distance of five representative interferents as compared to two peroxides and a control. **(C)** HCA dendrogram of five interferents, two peroxides and a control.

7. References

1. L. Feng, C. J. Musto, J. W. Kemling, S. H. Lim, W. Zhong and K. S. Suslick, *Anal. Chem.*, 2010, **82**, 9433-9440.
2. J. R. Askim and K. S. Suslick, *Anal. Chem.*, 2015, **87**, DOI: 10.1021/acs.analchem.1025b01499.
3. G. R. Peterson, W. P. Bassett, B. L. Weeks and L. J. Hope-Weeks, *Cryst. Growth Des.*, 2013, **13**, 2307-2311.
4. A. Crowson and M. S. Beardah, *Analyst*, 2001, **126**, 1689-1693.
5. W. P. Schaefer, J. T. Fourkas and B. G. Tiemann, *J. Am. Chem. Soc.*, 1985, **107**, 2461-2463.
6. O. Reany, M. Kapon, M. Botoshansky and E. Keinan, *Cryst. Growth Des.*, 2009, **9**, 3661-3670.

Table S4. Database for twelve peroxides and a control at 10 mg sample size after two min exposure.

	Dim 0	Dim 1	Dim 2	Dim 3	Dim 4	Dim 5	Dim 6	Dim 7	Dim 8	Dim 9	Dim 10	Dim 11
TATP-1_Trial 1	-0.11065	-0.09379	-0.00278	-3.57846	-0.39023	-0.03142	-1.27255	-0.25741	0.10946	2.454935	14.71905	0.906725
TATP-1_Trial 2	0.000862	-0.29308	-0.42303	-4.56316	-0.63893	-0.41232	-2.20882	-0.45288	0.309644	2.971005	14.06084	0.893664
TATP-1_Trial 3	-0.05489	-0.19344	-0.21291	-4.07081	-0.51458	-0.22187	-1.74068	-0.35514	0.209552	2.71297	14.38994	0.900195
TATP-1_Trial 4	-0.03631	-0.22665	-0.28295	-4.23493	-0.55603	-0.28535	-1.89673	-0.38772	0.242916	2.798982	14.28024	0.898018
TATP-1_Trial 5	-0.07348	-0.16022	-0.14286	-3.40669	-0.47313	-0.15839	-1.58464	-0.32256	0.176188	2.626959	14.49965	0.902372
TATP-2_Trial 1	1.476067	-0.55379	0.142777	-2.68363	-4.74882	-12.0887	-1.23671	0.948117	1.708857	13.29924	27.38459	2.428269
TATP-2_Trial 2	1.665137	-0.12368	0.03121	-2.69118	-5.14315	-11.5183	-1.18773	-0.34419	1.147111	14.04085	28.37687	2.036603
TATP-2_Trial 3	1.590602	-0.31874	0.086994	-3.02821	-5.57938	-10.8516	-1.21222	0.301964	1.598394	13.69004	29.00573	2.232436
TATP-2_Trial 4	1.53909	-0.41042	0.105588	-2.68614	-4.88026	-11.8986	-1.22038	0.517348	1.46918	13.87977	30.04868	2.297714
TATP-2_Trial 5	1.615447	-0.25372	0.068399	-2.87187	-5.43397	-11.0738	-1.20406	0.08658	1.379019	14.14031	28.46278	2.167158
TATP-3_Trial 1	0.51453	0.092604	0.071689	-0.40644	-0.53686	-0.21886	-0.24409	0.154052	-0.10131	2.042725	9.495044	0.352466
TATP-3_Trial 2	0.787587	0.140134	-0.31595	-0.56267	-0.76253	-0.43923	-0.30569	-0.12659	-0.18788	2.22187	9.93787	0.329671
TATP-3_Trial 3	0.241473	0.045074	0.459328	-0.25021	-0.31119	0.00152	-0.18249	0.434697	-0.01474	1.863581	9.052217	0.375261
TATP-3_Trial 4	0.696568	0.124291	-0.18674	-0.51059	-0.68731	-0.36577	-0.28515	-0.03304	-0.15902	2.162155	9.790261	0.33727
TATP-3_Trial 5	0.605549	0.108448	-0.05752	-0.45851	-0.61208	-0.29231	-0.26462	0.060504	-0.13017	2.10244	9.642652	0.344868
TATP-4_Trial 1	0.189692	-0.16843	-0.29716	1.52E-02	-0.30883	0.077134	-1.26118	-0.6878	-0.13761	2.235524	10.51074	0.565069
TATP-4_Trial 2	0.206471	6.27E-04	-0.06081	-0.32654	0.110294	0.028857	-0.99201	-0.78045	0.384872	0.951492	9.025944	0.75676
TATP-4_Trial 3	0.191665	-1.58E-02	-0.19282	0.659097	0.253058	-0.27248	-0.73636	-0.91288	-0.35853	2.549825	12.48154	0.409635
TATP-4_Trial 4	0.198082	-0.0839	-0.17898	-0.15567	-0.09927	0.052995	-1.1266	-0.73413	0.123632	1.593508	9.768341	0.660915
TATP-4_Trial 5	0.190679	-0.09211	-0.24499	0.337149	-0.02789	-0.09767	-0.99877	-0.80034	-0.24807	2.392675	11.49614	0.487352
TATP-5_Trial 1	0.712398	-1.43E-02	0.363319	0.344726	0.08152	-0.20987	-0.18374	1.297094	0.964501	11.58304	28.88105	2.066056
TATP-5_Trial 2	0.371707	0.494306	0.189651	-0.09436	-0.67204	-0.09569	-0.15759	1.642743	1.713263	9.207861	30.96203	1.692455
TATP-5_Trial 3	1.923339	0.276447	0.030898	0.030826	-0.15967	-0.06163	0.36789	1.777141	3.598448	8.596805	27.11702	2.321814
TATP-5_Trial 4	0.48527	0.324771	0.24754	0.052004	-0.42086	-0.13375	-0.16631	1.527527	1.463676	10.66625	29.6017	1.816988
TATP-5_Trial 5	0.888917	0.421686	0.136733	-0.05263	-0.50125	-0.08434	0.017569	1.687542	2.341658	9.004176	29.01369	1.902241
TATP-6_Trial 1	-0.24141	0.045066	0.250813	0.048978	-0.04565	0.382891	-1.3056	-0.47003	-7.40E-04	4.267014	18.2419	0.707543
TATP-6_Trial 2	-1.63E-02	-0.07737	0.156165	0.12659	0.203691	-0.3831	-1.37857	-0.15063	0.094567	2.296008	12.54434	0.453026
TATP-6_Trial 3	0.658308	-0.12466	0.361769	0.482305	0.328717	-0.12821	-1.27388	-0.21524	-0.56168	2.298373	12.34768	0.296122
TATP-6_Trial 4	0.058493	-0.01151	0.287798	0.193421	0.079142	0.212523	-1.29503	-0.3851	-0.18772	3.610801	16.27716	0.570403
TATP-6_Trial 5	-0.12886	-0.01615	0.203489	0.087784	0.079023	-0.00011	-1.34208	-0.31033	0.046914	3.281511	15.39312	0.580285
TATP-7_Trial 1	0.277152	-0.10983	-0.25011	-0.27682	0.169134	-0.4235	-0.21484	0.110659	-0.79159	2.815889	14.48456	0.595067
TATP-7_Trial 2	0.515986	-0.35291	0.032733	-1.3478	-0.07713	0.046512	-0.33787	-0.1992	-0.14009	2.156398	11.67997	0.296597
TATP-7_Trial 3	-0.23713	0.338907	-0.67592	-1.00111	-1.79E-02	-0.74678	-2.03325	0.904734	-1.0103	1.577997	8.441232	1.42E-02
TATP-7_Trial 4	0.139426	-0.007	-0.32159	-1.17445	-0.04751	-0.35013	-1.18556	0.352769	-0.57519	1.867197	10.0606	0.155399
TATP-7_Trial 5	0.396569	-0.23137	-0.10869	-0.81231	0.046004	-0.18849	-0.27635	-0.04427	-0.46584	2.486143	13.08227	0.445832
TATP-8_Trial 1	1.488181	-0.10755	-0.0461	-1.37484	-0.26049	-0.18819	-3.08938	0.484183	1.993569	6.443108	38.93683	1.458874
TATP-8_Trial 2	0.898615	0.152995	-0.31474	-1.59036	-1.01388	-0.17738	-5.03912	0.248439	1.585535	10.11949	36.3398	1.988936
TATP-8_Trial 3	-0.0299	0.27785	0.345892	-0.38971	0.231147	-0.17441	-3.97985	0.546956	1.542101	11.97369	38.96703	1.834473
TATP-8_Trial 4	0.279606	0.236231	0.125681	-0.78992	-0.18386	-0.1754	-4.33294	0.44745	1.556579	11.35563	38.09129	1.88596
TATP-8_Trial 5	0.729141	0.08515	0.149894	-0.88228	-0.01467	-0.1813	-3.53461	0.515569	1.767835	9.208399	40.95193	1.646673
TATP-9_Trial 1	0.309168	0.15453	0.09486	-0.06155	-0.16812	-0.14439	-1.39909	-0.81811	-0.60911	0.563007	5.893899	0.264874
TATP-9_Trial 2	0.192715	-0.29244	-0.13954	-0.40919	0.106177	0.063146	-0.6736	0.126609	0.171425	1.688262	6.718485	0.520298
TATP-9_Trial 3	-0.22226	0.138912	0.357215	0.174311	0.457565	-0.17985	-0.84474	-0.36658	0.427186	1.359034	5.188052	0.234686
TATP-9_Trial 4	0.250941	-0.06896	-0.02234	-0.23537	-0.03097	-0.04062	-1.03634	-0.34575	-0.21884	1.125635	6.306192	0.392586
TATP-9_Trial 5	-0.08394	-0.00487	0.19163	-0.02019	0.340436	-0.09885	-0.78769	-0.20218	0.341932	1.468777	5.698196	0.32989
HMTD-1_Trial 1	-1.27418	-0.0744	-1.51E-02	-0.24868	0.042304	-0.45915	-1.41297	-0.78332	-0.14071	0.218461	0.492042	-0.91215
HMTD-1_Trial 2	-1.08388	-0.13812	-0.10978	0.205558	-0.57987	-0.20853	-0.98052	-0.4707	-0.26308	-0.15485	1.137909	0.298796
HMTD-1_Trial 3	-2.13465	-0.34012	-6.22E-04	-0.10872	0.122642	-0.0788	-0.93577	-0.57673	-0.80729	7.70E-04	0.750984	-0.36071
HMTD-1_Trial 4	-1.60927	-0.23912	-0.0552	0.048418	-0.22861	-0.14366	-0.95815	-0.52372	-0.53518	-0.07704	0.944446	-0.03096
HMTD-1_Trial 5	-1.52549	-0.19794	-0.04517	-0.02586	-0.16088	-0.22254	-1.07185	-0.58862	-0.43657	-0.00317	0.831345	-0.25126
HMTD-2_Trial 1	-0.25624	-0.21569	-0.37257	-0.37714	-0.13971	-1.21E-02	-1.2556	-0.57975	-0.15787	0.35765	2.652507	-0.11069
HMTD-2_Trial 2	-0.3196	-0.04494	0.030904	0.092578	-1.93E-02	-0.44178	-1.21128	-0.61102	0.094352	0.814449	3.118046	0.156026
HMTD-2_Trial 3	-0.19329	0.356445	-0.17013	-0.06192	-0.18784	-0.07484	-1.1784	-0.32016	-0.23076	1.015348	5.224779	0.329272
HMTD-2_Trial 4	-0.25645	0.155755	-0.06961	0.015332	-0.10357	-0.25831	-1.19484	-0.46559	-0.06821	0.914899	4.171412	0.242649
HMTD-2_Trial 5	-0.29855	0.021961	-0.0026	0.066829	-0.04739	-0.38063	-1.2058	-0.56254	0.040166	0.847932	3.469168	0.1849
HMTD-3_Trial 1	-0.5458	-0.1523	-0.22819	-0.3028	-0.07081	-0.14854	-1.18812	-0.58887	-0.14643	0.264857	1.212197	-0.645
HMTD-3_Trial 2	-0.68692	-0.10054	0.001558	0.070445	-0.08192	-0.30927	-1.02158	-0.52776	-0.14394	0.168247	1.797954	0.251206
HMTD-3_Trial 3	-0.77279	0.109214	-0.10227	-0.0706	-0.07497	-0.06915	-0.99497	-0.36955	-0.61511	0.338963	2.242249	-0.13072
HMTD-3_Trial 4	-0.48737	0.050955	-0.07554	0.072448	-0.24056	-0.21915	-1.0186	-0.42419	-0.37953	0.253605	2.020102	0.060244
HMTD-3_Trial 5	-0.64851	-0.04773	-0.01546	0.032142	-0.07794	-0.29685	-1.05328	-0.51864	-0.27765	0.280533	1.710619	-0.10587
Control_Trial 1	-0.29015	-0.46855	0.084054	-0.37764	-0.53029	-0.63484	-1.94604	0.262935	-0.53686	-0.26665	-1.1014	0.66808
Control_Trial 2	0.681504	-0.54027	-0.80298	1.673485	0.059656	0.365213	-1.64312	0.855167	0.015433	-1.80862	-4.04927	0.910539
Control_Trial 3	-0.07586	0.320991	-0.15554	0.047569	-0.07111	0.584271	-2.00976	0.141517	-0.59698	0.102907	-2.61775	-0.27825
Control_Trial 4	-0.29015	-0.46855	0.084054	-0.37764	-0.53029	-0.63484	-1.94604	0.262935	-0.53686	-0.26665	-1.1014	0.66808
Control_Trial 5	-0.58105	0.283143	2.098077	1.384719	0.164397	0.126975	-1.14759	-0.32214	-0.31873	0.605491	-2.67722	0.484783

Dim 12	Dim 13	Dim 14	Dim 15	Dim 16	Dim 17	Dim 18	Dim 19	Dim 20	Dim 21	Dim 22	Dim 23	Dim 24	Dim 25
-0.06445	0.846498	-0.22066	0.053276	-0.10053	15.7004	18.05306	5.346248	4.174758	0.75222	0.506915	15.9844	3.927563	-0.02208
0.365133	0.477995	0.265849	0.049157	0.116649	16.6777	20.03917	5.556779	4.63002	0.832824	0.526835	16.10549	4.341492	-0.08356
0.150344	0.662246	2.26E-02	0.051217	0.008062	13.68905	17.54611	5.451514	4.402389	0.792522	0.516875	16.44494	4.034528	-0.05282
0.22194	0.600829	0.103679	0.05053	0.044258	14.68527	18.37713	5.486602	4.478266	0.805956	0.520195	14.90712	4.136849	-0.06307
0.078748	0.723664	-0.05849	0.051903	-0.02813	15.69283	17.71509	5.416425	4.326512	0.779088	0.513555	15.68901	3.932206	-0.04258
0.750151	1.794167	0.979479	0.342777	0.829328	10.44908	13.47042	4.973105	4.795603	1.938995	1.69439	16.15578	3.325168	-3.43176
0.874062	2.272026	0.817347	0.905061	2.009653	10.9162	12.80648	5.249788	4.51537	1.515244	1.72375	17.60295	4.189232	-3.21933
0.812107	2.033097	0.898413	0.643919	1.619491	11.25968	14.65174	6.279697	5.392654	1.727119	1.70907	17.37936	4.4572	-3.86555
0.791455	1.953453	0.925435	0.530205	1.22277	10.60479	13.24911	6.13648	4.702192	1.797744	1.704177	16.67819	3.976109	-3.36095
0.832758	2.11274	0.871391	0.499012	1.749545	11.14519	12.96953	5.936394	5.100226	1.656494	1.713964	17.01897	3.298191	-3.65014
0.165898	0.520288	0.206039	0.438904	0.143839	5.187563	11.70299	6.489468	2.288146	0.561657	0.297281	13.30214	2.813918	0.284632
0.029904	0.621799	-0.14299	0.422403	0.526456	7.549645	15.19491	5.013586	2.802753	0.65654	0.925226	16.46239	4.352513	0.790427
0.301892	0.418778	0.555066	0.455405	-0.23878	4.825482	10.21106	7.965351	1.773539	0.466773	-0.33066	14.14189	3.275322	-0.22116
0.075236	0.587962	-0.02665	0.427904	0.398917	5.750982	13.78172	5.505546	2.631218	0.624912	0.715911	14.89172	3.839648	0.621829
0.120567	0.554125	0.089697	0.433404	0.271378	6.249081	11.98123	5.997507	2.459682	0.593284	0.506596	15.60987	3.326783	0.45323
-0.25458	-0.07726	-0.02859	-3.88E-04	-0.0262	-2.32315	-3.94001	-5.66962	0.295596	-0.39278	-0.98013	-8.98566	-2.69945	1.397426
-0.2543	0.697926	-0.09791	0.334727	0.140028	-0.99182	-3.04377	-1.82779	0.460615	-0.08271	-0.28943	-5.48584	-2.90147	-0.23344
0.097227	0.210394	-0.4324	0.101337	-0.3915	-1.58736	-1.14386	-1.15843	0.461678	0.411768	0.936617	-1.80974	-1.56383	1.362526
-0.25444	0.310332	-0.06325	0.167169	0.056915	-1.65748	-3.49189	-3.7487	0.378105	-0.23774	-0.63478	-7.23575	-2.80046	0.581994
-0.07868	0.066566	-0.2305	0.050474	-0.20885	-1.95525	-2.54193	-3.41403	0.378637	0.009496	-0.02176	-5.3977	-2.13164	1.379976
0.216702	3.747335	0.093855	0.685013	0.537265	-0.61673	1.04132	3.609382	1.92256	-0.09038	-0.03074	2.005728	-2.93094	0.789077
-0.20696	3.522088	0.237455	1.059135	-0.07027	-1.39596	-1.83736	-2.95881	0.409338	-0.28234	0.204774	-1.48819	-3.04839	-0.39892
0.203917	3.114057	3.75E-03	0.813665	0.186672	0.151833	1.445606	3.565107	1.203668	0.493485	0.378814	2.981797	-2.22476	0.282894
-0.06574	3.59717	0.189588	0.934428	0.132243	-1.13621	-0.8778	-0.76941	0.913745	-0.21836	0.12627	-0.32355	-3.00924	-0.00292
-0.07	3.386078	0.159553	0.977312	0.015379	-0.88003	-0.74304	-0.78417	0.674115	-0.02373	0.262787	0.001808	-2.77385	-0.17165
1.67E-02	0.992987	0.487221	0.293695	-0.1257	0.363057	-0.24014	3.138216	0.265447	-0.17782	-0.09225	1.967343	-3.48607	0.126755
-0.12548	-0.12601	0.242857	-0.21215	-0.34168	-0.83542	0.116135	0.878311	-0.13442	0.126281	0.374825	0.1488	-2.38016	0.147541
2.60E-03	0.593421	-0.18866	0.032821	-0.16769	-1.13704	-1.36613	-0.73366	-1.02618	0.213294	-0.29457	-0.79714	-2.94158	0.468966
0.012	0.859798	0.261926	0.206737	-0.1397	-0.13698	-0.61547	1.84759	-0.16509	-0.04745	-0.15969	1.04585	-3.30457	0.240825
-0.05439	0.433489	0.365039	0.04077	-0.23369	-0.23618	-0.062	2.008264	0.065513	-0.02577	0.141286	1.058072	-2.93312	0.137148
0.224215	0.772084	0.281115	0.433842	0.524774	6.478561	9.410826	3.756002	4.099428	1.031721	-1.0038	10.06391	2.171577	-0.24266
-0.03411	-1.57E-02	-1.39E-02	0.08263	0.14959	4.795263	7.083263	2.357867	1.787828	-0.03334	-0.20031	6.712908	1.728527	0.233105
-0.3999	1.383781	1.47788	-0.69662	2.123239	5.678353	7.745505	3.103095	4.582228	2.167415	0.968976	7.430442	0.790023	-0.06541
-0.21701	0.684041	0.73199	-0.307	1.136415	5.236808	7.414384	2.730481	3.185028	1.067035	0.384331	7.071675	1.259275	0.083848
0.095051	0.378192	0.133608	0.258236	0.337182	5.636912	8.247044	3.056935	2.943628	0.499188	-0.60206	8.388407	1.950052	-0.00478
0.242321	2.142747	0.100527	0.711109	0.154154	-2.18801	-3.02177	-3.58323	-0.11641	-0.14637	0.331431	-2.67771	-2.7735	1.523523
0.222912	2.260563	-0.04799	0.699765	0.167677	-1.80134	-3.50136	-5.03661	-0.25909	-0.17965	-0.98467	-2.9198	-2.18374	1.353151
0.113999	2.752312	0.474115	0.76694	0.698083	-1.74739	-2.34884	-4.27922	-0.60515	0.131032	-0.26787	-3.18143	-1.94101	1.074878
0.150303	2.588396	0.30008	0.744548	0.521281	-1.76537	-2.73301	-4.53168	-0.4898	0.027473	-0.50681	-3.09422	-2.02192	1.167635
0.17816	2.44753	0.287321	0.739024	0.426119	-1.9677	-2.6853	-3.93123	-0.36078	-0.00767	0.031779	-2.92957	-2.35726	1.2992
0.04927	-1.56E-02	0.236308	-0.11434	0.067767	-1.12078	-0.34045	-2.51609	0.082736	-0.24158	0.078994	-2.85057	-2.27224	0.31398
0.429375	0.143944	1.43E-02	0.206514	0.152476	-0.92041	-0.24575	-2.12239	0.127014	-0.45504	0.23294	-0.124	-3.93063	-0.30049
-0.14152	-0.23954	-0.06322	-0.03345	0.408044	-0.90405	-0.06781	-2.78226	-2.52E-04	-0.43039	0.361128	-2.16758	-2.85067	0.336184
0.239323	0.064172	0.125304	0.046085	0.110121	-1.02059	-0.2931	-2.31924	0.104875	-0.34831	0.155967	-1.48728	-3.10143	0.006747
0.048776	-0.11171	-0.03738	0.046538	0.322855	-0.9095	-0.12712	-2.5623	0.04217	-0.43861	0.318399	-1.48638	-3.21065	0.123961
-0.12913	-0.63907	-0.37328	1.57E-02	-0.55437	-16.5101	-22.0181	-7.14809	-5.28724	-0.2417	-0.54045	-22.255	-0.74727	-0.31514
-0.14085	0.17438	-0.65174	-0.08184	-0.51309	-15.8343	-20.5568	-7.2646	-4.89905	-1.24574	-0.58077	-24.9506	-1.74623	-0.5594
-0.16174	-0.49822	-0.4897	-0.16451	-0.62892	-17.5606	-20.3224	-6.68728	-5.10388	-0.27707	-0.54492	-23.7746	-0.89696	-0.81412
-0.15129	-0.16192	-0.57072	-0.12317	-0.57101	-16.6974	-19.9396	-7.47594	-5.00146	-0.7614	-0.56284	-24.8626	-1.3216	-0.68676
-0.14575	-0.28121	-0.52136	-0.08845	-0.56685	-16.9006	-20.7092	-7.39397	-5.32291	-0.63148	-0.55725	-24.2107	-1.17801	-0.59385
-0.22178	-0.28435	0.272739	-0.2135	-0.73564	-13.3314	-17.8973	-8.12772	-7.6817	-0.52524	-0.12967	-18.9282	-6.65579	-0.36998
-0.3055	0.288769	-0.2685	1.54E-02	-0.32142	-12.2697	-20.7962	-8.69299	-8.03915	-0.25846	-0.93424	-19.7734	-6.50578	-1.22938
-0.39596	0.217494	-0.2709	-0.11547	-0.37065	-14.7689	-18.6217	-9.62141	-7.30887	-0.31567	-0.5072	-19.1859	-5.17612	-0.40699
-0.35073	0.253132	-0.2697	-0.05004	-0.34603	-13.5193	-19.709	-9.1572	-7.67401	-0.28706	-0.72072	-19.4797	-5.84095	-0.81819
-0.32058	0.27689	-0.2689	-0.00641	-0.32962	-12.6862	-20.4338	-8.84773	-7.91744	-0.268	-0.86307	-19.6755	-6.28417	-1.09232
-0.16002	-0.52083	-0.15794	-0.0607	-0.61479	-15.4505	-20.6445	-7.47463	-6.0854	-0.33621	-0.40352	-21.1461	-2.71678	-0.33342
-0.19573	0.21251	-0.524	-0.04942	-0.4492	-14.6461	-20.6366	-7.74073	-5.94575	-0.91664	-0.69859	-23.2248	-3.33274	-0.78273
-0.23981	-0.25965	-0.41677	-0.14816	-0.54283	-13.892	-19.7555	-7.66532	-5.83888	-0.28994	-0.53235	-22.245	-2.32335	-0.67841
-0.21777	-0.02357	-0.47038	-0.09879	-0.49602	-15.0789	-19.8627	-8.03636	-5.89231	-0.60329	-0.61547	-23.0683	-2.82805	-0.73057
-0.20403	-0.09518	-0.43721	-0.06111	-0.48777	-14.5613	-20.6174	-7.87856	-6.18775	-0.51032	-0.65919	-22.6989	-2.88007	-0.76001
-0.2166	0.914569	-0.71834	-0.38812	-0.20953	1.036511	0.542346	-2.80608	0.207671	-0.72782	2.860736	5.026171	-2.49137	-2.26178
0.375747	-1.4383	0.446973	0.399169	1.139275	-1.7092	-0.71853	-0.98145	0.396365	1.656109	-1.19684	5.112598	-3.00413	2.152535
0.186853	-0.21682	-3.63705	0.868332	1.688336	-0.6161	-0.31768	2.416608	-0.31453	-1.94276	0.91527	6.301769	-0.06965	-0.54205
-0.2166	0.914569	-0.71834	-0.38812	-0.20953	3.236511	0.542346	-2.80608	1.307671	-0.72782	0.660736	5.026171	-2.49137	-2.26178
0.137453	-0.30639	-0.51033	0.131118	-0.235	-1.11464	-1.67618	-3.18945	0.504968	-0.3678	-0.3422	5.51669	-1.79855	-0.07266

Dim 26	Dim 27	Dim 28	Dim 29	Dim 30	Dim 31	Dim 32	Dim 33	Dim 34	Dim 35	Dim 36	Dim 37	Dim 38	Dim 39
-0.40435	-1.11219	-1.557	4.53833	5.4315	-13.699	-10.353	0.332093	-0.25803	-0.89165	0.182056	-0.4589	-0.34615	7.837677
0.149275	-1.62129	-1.71021	4.933431	5.508	-14.1015	-9.5625	-0.02397	-0.06274	0.605753	1.012485	-0.26275	-0.32341	6.369668
-0.12754	-1.36674	-1.63361	6.657457	5.3805	-12.6225	-11.067	0.15406	-0.16038	-0.14295	0.59727	-0.36083	-0.33478	6.416996
-0.03527	-1.45159	-1.65914	4.468398	5.4825	-13.634	-9.826	0.094718	-0.12783	0.106619	0.735675	-0.32813	-0.33099	6.859004
-0.21981	-1.28189	-1.60807	4.003364	5.457	-13.1665	-10.8895	0.213406	-0.19293	-0.39252	0.458865	-0.39352	-0.33857	7.348341
-1.72624	-1.81189	-2.97514	5.221478	6.1965	-14.8932	-12.342	1.005941	-1.74866	1.371253	-0.08737	0.094105	0.500878	8.287895
-0.9975	-1.23464	-1.19645	4.293308	7.752	-13.0787	-11.5005	0.060171	0.106631	-0.20833	0.07861	-0.29703	0.037184	6.973872
-1.36187	-1.52327	-2.0858	4.05807	8.874	-13.311	-12.597	0.533056	-0.82102	0.581462	-4.39E-03	-0.10146	0.269031	7.143237
-1.48333	-1.61947	-2.38224	4.912088	6.715	-13.7619	-12.4019	0.690684	-1.13023	0.844726	-0.03204	-0.03627	0.346313	7.561801
-1.24042	-1.42706	-1.78935	4.136483	8.5	-12.9611	-11.9768	0.375428	-0.5118	0.318199	0.023277	-0.16665	0.191749	7.441082
0.657044	-0.23289	-0.37363	6.657457	6.432005	-17.5695	-11.067	-0.09527	0.031086	0.485301	0.105282	-0.05797	0.116643	6.577116
0.386107	-0.87873	0.052344	5.837674	7.162155	-14.8665	-10.8375	-0.19227	-0.07289	0.855124	0.174847	-0.54668	-0.01691	7.228059
0.927982	0.412944	-0.7996	5.002945	6.671955	-16.076	-9.18	0.001731	0.13506	0.115479	0.035716	0.430732	0.250192	7.031508
0.476419	-0.66345	-0.08965	6.110935	6.918772	-15.7675	-10.914	-0.15994	-0.03823	0.73185	0.151659	-0.38378	0.02761	7.011078
0.566732	-0.44817	-0.23164	6.384196	6.027817	-15.752	-10.9905	-0.1276	-0.00357	0.608576	0.12847	-0.22088	0.072126	6.794097
-0.08579	-1.69025	0.089899	0.784762	4.073625	-9.52425	-7.76475	-0.12812	0.192962	0.063231	0.949513	0.227758	0.165237	5.225118
-0.04042	-0.31352	-0.09768	1.05E-02	4.7685	-10.6144	-7.17188	0.212496	-2.06E-02	0.038554	0.171988	-0.32449	0.82598	4.246445
-1.67824	-1.74114	0.344976	0.411096	4.800375	-13.2919	-8.30025	-0.47759	0.200568	0.458464	0.183489	-0.12756	-0.15525	4.277997
-0.0631	-1.00189	-0.00389	0.397631	4.421063	-10.0693	-7.46831	0.042186	0.086181	0.050892	0.56075	-0.04837	0.495609	4.735782
-0.88202	-1.71569	0.217437	0.597929	4.437	-11.4081	-8.0325	-0.30286	0.196765	0.260847	0.566501	0.050099	0.004993	4.751558
-0.9993	-0.70595	-0.39327	7.989895	5.284875	-10.1881	-9.2565	-0.02659	-0.67951	-1.95E-02	0.867556	1.31E-03	-1.57E-02	5.525264
0.346467	-0.57381	0.503056	6.470298	5.814	-9.42313	-8.62538	-0.25801	-0.6229	0.098469	1.051297	-0.19587	-0.0556	4.649248
-0.60353	-0.14751	0.591242	7.292842	6.6555	-10.0071	-7.91025	1.055121	-0.36408	-0.29304	1.331129	0.257014	0.414903	5.029025
-0.10212	-0.61786	0.204279	6.643497	5.637625	-9.67813	-8.23575	-0.18087	-0.64177	0.059146	0.99005	-0.13014	-0.0423	4.941253
0.029801	-0.43171	0.532451	7.077812	6.0945	-9.91778	-8.687	0.179701	-0.53662	-0.03203	1.144575	-0.04491	0.101235	4.77584
-0.12948	-0.83303	0.125545	0.952307	4.800375	-13.1963	-8.30025	-0.38635	0.07779	0.05983	1.016613	0.143786	0.187245	4.384744
0.607416	0.07927	-0.30157	1.151162	3.461625	-11.1881	-8.12813	0.13318	-0.52826	-0.42053	-0.06154	-0.08107	0.258438	4.818706
-0.60657	-1.06911	0.265868	1.100909	5.756625	-10.5188	-6.885	0.550167	0.607956	-0.45008	0.474056	0.055275	0.389889	4.687672
-0.28851	-0.91173	0.17232	1.001841	5.119125	-12.3038	-7.8285	-0.07418	0.254512	-0.11014	0.83576	0.114283	0.254793	4.48572
0.238967	-0.37688	-0.08801	1.051735	4.131	-12.1922	-8.21419	-0.12659	-0.22524	-0.18035	0.477534	0.031356	0.222842	4.601725
0.321565	-0.59026	-1.61061	-0.99976	4.752563	-11.1116	-9.05888	-0.34631	0.520364	-0.15616	0.396449	-0.16263	-0.15103	6.531398
-0.18173	-1.10426	-0.49551	-1.16695	5.13825	-12.3579	-8.36719	0.288717	-0.71944	-0.10288	0.113601	-0.27785	0.17083	5.308057
0.147693	-1.00551	0.177613	-0.61896	5.090438	-12.9572	-9.68363	-0.07143	0.403011	0.231023	0.632503	0.369883	-0.0473	5.347497
-0.01702	-1.05489	-0.15895	-0.89296	5.114344	-12.6576	-9.02541	0.108645	-0.15821	0.064071	0.373052	0.046019	0.061767	5.327777
0.069916	-0.84726	-1.05306	-1.08336	4.945406	-11.7348	-8.71303	-0.0288	-0.09954	-0.12952	0.255025	-0.22024	0.0099	5.919727
-0.86882	-0.99077	-0.15496	8.548797	5.740688	-13.0401	-10.7993	-0.17431	-3.63632	-0.77301	0.536905	0.825155	-0.65477	6.906579
-1.08673	-1.80376	0.260883	7.966581	6.783	-12.1476	-11.0629	-0.36605	-0.40769	0.263919	0.122212	0.081331	-0.06492	5.81156
-0.37832	-0.02642	0.573873	7.131767	7.76475	-11.5904	-9.70363	-0.41016	-0.46987	1.54E-02	-0.13765	0.35681	-0.15202	6.286281
-0.61446	-0.61887	0.469543	6.410038	7.4375	-12.1552	-10.4901	-0.39545	-0.44915	0.09824	-0.05103	0.264983	-0.12299	6.128041
-0.62357	-0.5086	0.209459	7.340282	6.752719	-12.5996	-10.7514	-0.29223	-2.0531	-0.3788	0.199629	0.590982	-0.4034	6.59643
0.033634	-0.76042	0.248598	0.610401	5.600438	-15.3829	-9.68363	0.550388	0.142883	1.25E-02	0.277958	-3.95E-03	-1.83E-02	5.48093
-0.23038	-0.36408	0.130778	0.820661	5.313563	-13.0273	-9.48281	0.045682	0.061685	0.645527	0.570751	-0.06554	0.269119	6.023383
0.621662	-0.31928	-0.10909	0.836533	6.716063	-12.2974	-8.0325	0.522841	0.569383	0.245788	0.342926	0.064916	-0.03422	5.85959
-0.09837	-0.56225	0.189688	0.715531	5.457	-14.2051	-9.58322	0.298035	0.102284	0.329013	0.424355	-0.03475	0.125409	5.752156
0.337649	-0.33422	-0.02913	0.831242	6.248563	-12.5407	-8.51594	0.363788	0.40015	0.379034	0.418868	0.021429	0.066892	5.914188
-0.80937	-1.07453	-0.42386	0.728185	0.613628	0.389088	-0.51066	6.48E-03	0.570812	-0.71748	-0.10302	-0.74566	-0.33178	0.098455
-0.36416	-0.72827	-0.12278	0.547157	1.161016	2.267217	-0.24811	0.845722	1.576961	-1.23243	2.076945	0.71343	-0.28167	0.528901
-0.5582	-0.9635	-0.17683	0.643462	-0.37234	1.560902	0.843246	1.341808	2.264331	-1.16685	-0.75057	-1.42682	-0.42119	0.26703
-0.46118	-0.84588	-0.14981	0.595309	0.394336	1.914059	0.297568	1.093765	1.920646	-1.19964	0.663189	-0.35669	-0.35143	0.397965
-0.54823	-0.90305	-0.21832	0.628528	0.449159	1.532817	0.095512	0.821944	1.583188	-1.0791	0.471638	-0.45394	-0.34652	0.323088
-0.28315	-0.30066	-0.32321	0.218425	0.952837	4.861736	-5.25099	1.491817	-1.08066	-0.32665	0.537454	-0.11428	-0.12807	-0.29995
0.10677	-0.74142	-0.454	1.91787	1.00881	3.841738	4.1371	0.217819	0.682248	2.78E-03	1.560681	-0.198	0.415144	0.204177
-0.46273	-0.17194	-0.07174	1.089638	2.874771	5.139188	4.711523	-0.08238	-0.15551	-0.31473	0.053419	0.131512	-0.2304	-0.37811
-0.17798	-0.45668	-0.26287	1.503754	1.94179	4.490463	4.424311	0.067719	0.263369	-0.15598	0.80705	-0.03324	0.092372	-0.08696
0.011853	-0.64651	-0.39029	1.779831	1.319804	4.05798	4.232837	0.167786	0.542622	-0.05014	1.30947	-0.14308	0.307553	0.10713
-0.63396	-0.81657	-0.39031	0.558265	0.726698	1.879971	-2.09077	0.501592	0.020321	-0.5872	0.110474	-0.5352	-0.26388	-0.03435
-0.20718	-0.73265	-0.23319	1.004061	1.110281	2.792057	1.213626	0.636421	1.278723	-0.82069	1.904857	0.409619	-0.0494	0.420659
-0.52638	-0.69965	-0.1418	0.792187	0.710028	2.753664	2.132672	0.867078	1.457718	-0.88281	-0.48257	-0.90737	-0.35759	0.051985
-0.36678	-0.71615	-0.18749	0.898124	0.910154	2.772861	1.673149	0.75175	1.36822	-0.85175	0.711143	-0.24888	-0.2035	0.236322
-0.36153	-0.81753	-0.27564	1.012296	0.739374	2.374538	1.47462	0.603891	1.236332	-0.73611	0.750915	-0.35032	-0.12849	0.251102
-3.73444	-2.77062	0.013674	-0.39066	-2.44075	0.432269	0.450042	-0.03396	1.229021	-0.34035	0.78757	0.056625	0.036954	-0.05071
-0.8872	0.556449	-0.29816	0.11692	-0.51302	-1.16836	1.293235	-0.5601	-0.21406	-0.19502	1.21417	0.099351	0.299311	0.238982
-0.74832	-1.36385	-0.32082	-0.16926	-0.63743	-0.14833	0.052394	0.266574	-0.32503	0.236649	1.891949	1.090118	0.270952	0.013309
-3.73444	-2.77062	0.013674	-0.39066	-2.44075	0.432269	0.450042	-0.03396	1.229021	-0.34035	0.78757	0.056625	0.036954	-0.05071
1.130379	-0.05668	0.485262	0.125287	-0.82354	2.48219	1.861592	0.141769	1.264848	0.647748	1.401656	0.511216	0.69525	0.13826

Dim 40	Dim 41	Dim 42	Dim 43	Dim 44	Dim 45	Dim 46	Dim 47	Dim 48	Dim 49	Dim 50	Dim 51	Dim 52	Dim 53
-0.64786	-0.35452	-0.66902	-6.20288	-0.87231	-0.08529	-6.68965	-1.50425	-0.59556	0.922801	6.751023	-0.8519	-0.05207	-0.32227
-0.01599	-0.44779	-0.71644	-1.658	-0.14683	-0.69262	-9.41083	-2.73401	-0.46052	1.203934	6.424554	0.418819	0.116577	0.139641
-0.33193	-0.40115	-0.69273	-3.93044	-0.50957	-0.38896	-8.05024	-2.11913	-0.52804	1.063368	6.587789	-0.21654	0.032251	-0.09131
-0.22661	-0.4167	-0.70063	-3.17296	-0.38865	-0.49018	-8.50377	-2.32409	-0.50553	1.110223	6.533377	-0.00475	0.06036	-0.01433
-0.43723	-0.38561	-0.68483	-4.68792	-0.63048	-0.28774	-7.59671	-1.91417	-0.55054	1.016512	6.6422	-0.42833	0.004142	-0.1683
-0.13859	0.33953	0.303248	-5.58166	-6.03075	-4.70072	-3.28224	-0.59604	0.18168	2.962412	11.39219	0.401707	0.451193	-0.24064
0.186005	0.431661	0.397187	-6.00374	-6.79218	-4.43633	-2.00805	-0.23374	0.760815	2.732945	11.79549	0.451015	1.02264	0.695313
2.37E-02	0.385596	0.350218	-4.90066	-5.99464	-3.67135	-2.64514	-0.41489	0.471247	2.704768	12.71884	0.426361	0.736917	0.451639
-0.03039	0.370241	0.334561	-5.72235	-6.28456	-4.61259	-2.85751	-0.47528	0.374725	3.029018	11.52662	0.418143	0.641676	0.071347
0.077802	0.400951	0.365874	-5.26835	-6.26049	-3.92634	-2.43278	-0.35451	0.56777	2.458907	11.86819	0.434579	0.832158	0.532864
-0.21421	0.115793	-0.20691	-0.43496	0.314345	0.022904	-2.59999	-0.72909	-0.14784	1.071785	4.83302	0.216957	0.08163	-0.33351
-0.15168	0.077181	-0.34985	-0.57992	0.517706	0.293813	-2.28392	-0.89419	-0.06589	1.121113	5.098386	0.251286	-0.13609	-0.01683
-0.27674	0.154404	-0.06396	-0.28999	0.110984	-0.24801	-2.91606	-0.56398	-0.22979	1.022457	4.567654	0.182628	0.299352	-0.65018
-0.17252	0.090052	-0.30221	-0.5316	0.449919	0.20351	-2.38928	-0.83916	-0.09321	1.10467	5.009931	0.239843	-0.06352	-0.12239
-0.19336	0.102922	-0.25456	-0.48328	0.382132	0.113207	-2.49463	-0.78412	-0.12053	1.088227	4.921475	0.2284	0.009056	-0.22795
0.107335	0.061856	0.270813	0.95014	0.242067	-0.33005	-4.36762	-1.16019	-0.5314	1.370089	4.884543	0.267395	-0.34921	0.187595
0.184768	-0.13984	-0.06357	0.078964	-0.09809	0.132559	-4.1278	-0.77755	-0.21501	0.70645	4.509384	0.167934	0.448071	0.034404
0.046967	-0.15472	0.302294	0.660494	8.11E-04	0.116363	-3.83912	-1.32334	-0.47744	1.650436	5.959141	0.449431	0.248666	-5.79E-04
0.146051	-0.03899	0.103624	0.514552	0.071988	-0.09875	-4.24771	-0.96887	-0.37321	1.03827	4.696964	0.217664	0.049429	0.111
0.077151	-0.04643	0.286553	0.805317	0.121439	-0.10685	-4.10337	-1.24176	-0.50442	1.510263	5.421842	0.358413	-0.05027	0.093508
0.305847	1.452512	0.237457	1.255998	0.675004	0.028492	-3.43965	3.247201	0.397116	2.826437	13.95673	-3.67958	0.770809	-2.28114
0.093564	1.592047	0.093764	0.788953	-0.40295	-0.1147	-3.32486	1.340566	0.081457	3.22177	11.79054	-3.96453	0.935781	-2.35132
0.16949	1.792499	-0.23941	0.663175	-0.50361	-0.09897	-3.15114	2.833736	1.101677	2.800344	12.68657	-4.03335	0.513234	-1.83368
0.164325	1.545536	0.141661	0.944634	-0.04363	-0.06697	-3.36313	1.976111	0.186676	3.089992	13.17927	-3.86955	0.88079	-2.32793
0.118873	1.658864	-0.0173	0.747027	-0.4365	-0.10946	-3.26696	1.838289	0.42153	2.781295	12.42255	-3.98747	0.794932	-2.17877
-0.04561	0.074975	0.223016	0.210587	0.598053	0.047604	-3.89657	-2.0069	-0.61218	2.209588	8.022828	-0.13342	0.115272	-0.13682
-0.55128	-0.2001	0.460351	1.192647	-0.20864	-0.04881	-4.55791	-2.06933	-0.7375	1.567176	5.744505	-0.03139	-0.13244	0.104839
-0.20003	0.218427	-0.2551	1.240775	0.163758	-0.41462	-3.93203	-1.4747	-0.58036	0.890393	5.277689	-0.20107	-0.21743	-0.15649
-0.09708	0.122793	0.063645	0.553983	0.453288	-0.10647	-3.90839	-1.8295	-0.60157	1.769856	7.107782	-0.15597	0.004372	-0.14338
-0.29844	-0.06256	0.341683	0.701617	0.194706	-0.0006	-4.22724	-2.03812	-0.67484	1.888382	6.883666	-0.0824	-0.00858	-0.01599
0.183808	0.04705	-0.28582	-3.70541	0.324027	-0.45999	-2.99902	-0.92532	-0.33228	1.633983	6.781439	-0.45231	-2.07E-03	1.87E-02
0.323762	0.354267	0.142753	-2.10663	0.662591	-0.09851	-3.02523	-1.01044	-0.49626	1.220628	5.681645	-0.23282	0.332136	-0.33945
0.077323	-0.04495	-0.28551	-1.31946	1.03658	-0.09646	-4.67966	-2.10552	-0.29708	1.122604	4.06472	0.468636	0.182553	0.309104
0.200542	0.154658	-0.07138	-1.71305	0.849586	-0.09749	-3.85245	-1.55798	-0.39667	1.171616	4.873183	0.11791	0.257344	-0.01517
0.253785	0.200658	-0.07154	-2.90602	0.493309	-0.27925	-3.01213	-0.96788	-0.41427	1.427306	6.231542	-0.34256	0.165033	-0.16038
-0.07539	1.032911	-0.17496	-2.33363	-0.40594	-0.1816	-10.7252	-3.93076	0.281598	3.811184	13.74298	-1.3562	0.58685	-1.07954
-0.59935	1.173952	-0.58988	-3.68454	0.111579	-0.92193	-8.92382	-5.37431	-0.14876	4.259257	14.03473	-2.27182	0.132806	-1.62144
-0.09169	1.111501	0.541738	-1.70735	0.292604	-0.21273	-9.6007	-5.12097	-0.03551	5.573805	12.83372	-2.8767	0.283812	-1.5669
-0.26091	1.132318	0.164533	-2.36641	0.232262	-0.44913	-9.37507	-5.20542	-0.07326	5.135623	12.23406	-2.67508	0.233477	-1.58508
-0.08354	1.072206	0.183388	-2.02049	-0.05667	-0.19716	-10.1629	-4.52586	0.123042	4.692495	12.78835	-2.11645	0.435331	-1.32322
-0.27768	-0.26248	0.029816	0.933957	0.449244	0.375598	-4.26711	-1.29271	-0.16438	-0.1645	2.469781	-0.0343	0.035797	-0.25685
-0.3541	0.091306	-0.09568	0.25833	0.536047	0.48344	-3.28238	-1.55703	-0.52472	0.808683	3.183876	0.050604	0.487317	-0.04912
-0.02988	-0.23263	0.333587	0.451116	0.308333	-0.24965	-3.34625	-0.79602	-0.39315	1.022475	2.624623	0.114663	-0.03475	0.221377
-0.31589	-0.08559	-0.03293	0.596144	0.492646	0.429519	-3.77474	-1.42487	-0.34455	0.322091	2.826829	0.00815	0.261557	-0.15299
-0.13796	-0.12465	0.190497	0.386854	0.384237	-0.00528	-3.32496	-1.04969	-0.43701	0.951211	2.811041	0.09331	0.139273	0.131211
-0.98713	0.261571	0.318455	0.451564	0.148088	-0.11443	-3.23141	-2.04237	-0.58129	-0.46122	0.063603	-1.37371	-0.96908	-0.10213
-1.28722	0.046916	0.095429	0.32159	-0.35719	-0.11547	-2.74088	-1.80255	-0.36119	-0.14717	0.639988	-0.37094	-0.24862	-0.23841
-2.97607	0.461011	0.38252	0.90138	0.436453	0.232945	-3.40466	-1.95759	-0.61252	-0.26395	0.523835	-1.05325	-0.42291	-0.13603
-2.13164	0.253963	0.238975	0.611485	0.039633	0.058735	-3.07277	-1.88007	-0.48685	-0.20556	0.581911	-0.7121	-0.33577	-0.18722
-1.84552	0.255865	0.258845	0.571505	0.066747	0.015444	-3.11243	-1.92064	-0.51046	-0.26948	0.452334	-0.8775	-0.49409	-0.16595
-0.06169	-0.06298	-0.22256	0.097264	0.146512	-0.24969	-3.31642	-1.34029	-0.39418	-0.08198	1.546009	0.531874	1.47E-02	0.307427
0.17092	0.046764	-0.08058	-0.04902	-0.08188	-0.36647	-2.88813	-1.40745	-0.64688	-0.2637	1.275661	0.134476	0.064954	-0.3233
0.245411	0.183749	0.09539	0.3536	0.79594	0.230763	-2.44797	-1.52269	-0.77247	0.543517	2.928078	0.165864	0.067563	0.463951
0.208166	0.115257	0.007405	0.15229	0.357032	-0.06785	-2.66805	-1.46507	-0.70967	0.139908	2.10187	0.15017	0.066258	0.070325
0.183335	0.069595	-0.05125	0.018084	0.064427	-0.26693	-2.81477	-1.42666	-0.66781	-0.12917	1.551064	0.139707	0.065388	-0.19209
-0.67865	0.153388	0.138118	0.333464	0.147562	-0.15952	-3.25974	-1.80835	-0.51892	-0.33481	0.557738	-0.73851	-0.64115	0.034391
-0.80117	0.046865	0.03676	0.198053	-0.26542	-0.19914	-2.78997	-1.67085	-0.45642	-0.18601	0.851879	-0.20247	-0.14409	-0.2667
-1.90224	0.36859	0.28681	0.718787	0.556282	0.232217	-3.08577	-1.81262	-0.66583	0.005203	1.325249	-0.64688	-0.25942	0.06396
-1.35171	0.207728	0.161785	0.45842	0.145433	0.016538	-2.93787	-1.74174	-0.56113	-0.09041	1.088564	-0.42468	-0.20176	-0.10137
-1.16923	0.193775	0.155479	0.387031	0.065973	-0.07868	-3.01321	-1.75598	-0.56291	-0.22271	0.818577	-0.53843	-0.3076	-0.17466
-0.1888	-0.16605	-0.63259	0.670349	-0.22402	-0.1723	-6.0247	-3.50069	-0.13892	0.010591	0.48603	0.270824	0.035185	0.154856
-0.08256	0.408617	-2.26029	1.624991	-0.04855	-0.0988	-5.63032	-2.74033	-0.72461	-1.02722	-2.54424	0.130636	0.106588	-0.01089
0.117853	0.073078	0.227353	0.511816	0.074171	-0.28474	-7.03046	-2.93758	-0.83714	0.212923	0.389671	-0.09538	-0.16564	0.058763
-0.1888	-0.16605	-0.63259	0.670349	-0.22402	-0.1723	-7.1247	-3.50069	-0.13892	0.010591	0.48603	0.270824	-0.0835	0.154856
-0.06981	-0.70685	-2.02331	0.889878	0.137134	-0.23336	-6.82456	-2.62925	-0.44912	0.4099	0.294675	0.469955	-0.10637	0.046379

Dim 54	Dim 55	Dim 56	Dim 57	Dim 58	Dim 59	Dim 60	Dim 61	Dim 62	Dim 63	Dim 64	Dim 65	Dim 66	Dim 67
-0.29256	0.140206	0.311907	5.071018	5.026073	2.118827	3.059643	-0.4767	-0.50029	1.914717	0.411791	0.241031	-0.37478	-0.74562
-0.00082	0.038605	0.328007	5.706155	4.921385	2.453131	3.426902	-0.47916	0.200616	2.632095	0.394236	0.194669	-0.16104	-0.22971
-0.14669	0.089405	0.319957	5.388587	4.973729	2.285979	3.243272	-0.47793	-0.14984	2.528406	0.403013	0.21785	-0.26791	-0.48767
-0.09807	0.072472	0.32264	5.494443	4.956281	2.341696	3.304482	-0.47834	-0.03302	2.392969	0.400088	0.210123	-0.23229	-0.40168
-0.19531	0.106339	0.317274	5.282731	4.991177	2.230262	3.182062	-0.47752	-0.26665	2.153843	0.405939	0.225577	-0.30354	-0.57365
-1.94065	-0.53451	-0.22417	5.7354	4.692174	1.859249	3.231753	0.927176	0.816331	3.288484	1.288433	0.993075	0.848987	-0.15864
-1.23632	0.460746	1.267247	6.049095	4.374285	2.39662	3.065021	1.001765	0.670688	3.009438	2.105537	1.21343	0.836589	0.207658
-1.58848	-0.03688	0.52154	7.254747	6.154801	3.127935	3.638387	0.964471	0.743509	2.988961	1.696985	0.977325	0.842788	2.45E-02
-1.70587	-0.20276	0.27297	5.839965	4.586211	2.038373	3.176176	0.952039	0.767783	3.195469	1.560801	1.066526	0.844855	-0.03654
-1.47109	0.128995	0.770109	6.852863	5.561296	2.884163	3.447265	0.976902	0.719236	2.995786	1.833169	1.056027	0.840722	0.085553
1.90E-02	0.086857	0.277162	2.959363	2.95567	3.246256	2.363835	0.110073	0.191775	2.352976	0.325409	-0.02836	0.105492	-0.37748
0.034615	0.172526	0.381484	4.079771	3.713547	3.487059	2.624149	-0.07087	0.531641	3.014307	0.579588	-0.17543	0.374699	0.023919
0.003341	0.001188	0.172839	2.838956	2.197793	3.005453	2.103522	0.291017	-0.14809	2.691645	0.07123	0.118714	-0.16371	-0.77889
0.02941	0.14397	0.34671	3.706301	3.460922	3.406791	2.537378	-0.01056	0.418352	2.793863	0.494862	-0.12641	0.284963	-0.10988
0.024205	0.115414	0.311936	3.332832	3.208296	3.326523	2.450606	0.049758	0.305063	2.57342	0.410135	-0.07738	0.195228	-0.24368
0.405771	0.174773	-0.13679	-0.07058	-0.84042	-1.68161	-0.12177	0.08789	-0.18792	-2.25575	-1.2023	-0.47058	-0.11718	0.071119
0.342511	0.243712	0.367147	0.08479	-1.11459	-0.4315	0.293832	0.285495	0.697673	-0.63553	-0.73604	-0.44722	2.13E-02	0.449066
0.048566	-0.14098	0.10233	-0.19233	-0.34183	-0.15449	0.686212	0.852828	-0.07005	-0.77106	0.290268	-0.34498	0.200406	0.358931
0.374141	0.209243	0.115181	0.007106	-0.97751	-1.05656	0.086031	0.186693	0.254875	-1.44564	-0.96917	-0.4589	-0.04794	0.260093
0.227168	0.016897	-0.01723	-0.13145	-0.59113	-0.91805	0.282221	0.470359	-0.12898	-1.51341	-0.45602	-0.40778	0.041611	0.215025
-0.965	-1.66845	0.036932	0.657736	0.083305	1.766258	0.363586	0.17095	0.441771	0.432881	-1.09373	0.225608	0.47517	0.300742
-1.32502	-2.06302	0.051373	0.452436	-0.63677	-1.388	7.75E-04	0.236701	0.066638	-0.33844	-0.44138	0.294491	-0.42181	-0.2863
-1.46004	-1.49228	0.10669	0.308717	0.432176	1.05432	0.993092	0.190502	-0.22715	0.206333	-0.41402	-1.86E-03	0.220631	-0.32031
-1.20501	-1.93149	0.04656	0.52087	-0.39674	-0.33658	0.121712	0.214784	0.191682	-0.08133	-0.65883	0.27153	-0.12282	-0.09062
-1.37003	-1.87277	0.069812	0.40453	-0.28045	-0.5739	0.331547	0.221302	-0.03129	-0.15685	-0.43226	0.195707	-0.20766	-0.29764
-0.36101	-0.05116	0.433196	0.399856	0.293805	0.464431	0.253165	0.118521	-0.66999	0.361031	-0.78773	-0.29453	0.034728	-0.08799
-0.02957	0.223237	0.404943	0.224058	0.2374	0.479495	0.717433	0.047938	-0.04803	-0.35704	-0.51128	-0.69275	0.150759	0.20142
-0.2389	0.137139	0.152168	0.091988	-0.61892	-0.20828	0.544958	-1.61E-02	-0.53432	-0.53357	-0.55429	0.244724	3.03E-03	-0.6157
-0.32031	0.011606	0.33952	0.297233	-0.01044	0.240195	0.35043	0.073647	-0.62476	0.062829	-0.70992	-0.11478	0.024162	-0.26389
-0.19529	0.086038	0.41907	0.311957	0.265603	0.471963	0.485299	0.08323	-0.35901	0.001998	-0.6495	-0.49364	0.092743	0.056716
0.083346	-0.24259	-1.55E-02	3.750662	3.007271	2.26954	2.661149	1.21E-02	-1.77E-02	1.445492	0.7858	0.100362	0.053492	-0.55966
-0.1547	0.221756	0.225797	2.271114	2.260991	1.698055	1.756282	0.172209	-0.16602	0.663787	-0.15511	-0.08741	-0.10723	-0.17617
0.712551	0.620492	-0.22762	2.355305	3.091862	1.579053	1.926822	0.562665	0.457331	1.67469	0.655454	-0.0702	-0.36373	-0.30928
0.278928	0.421124	-0.00091	2.313209	2.676427	1.638554	1.841552	0.367437	0.145657	1.169238	0.250173	-0.0788	-0.23548	-0.24273
-0.03567	-0.01042	0.105148	3.010888	2.634131	1.983797	2.208716	0.092154	-0.09186	1.05464	0.315346	0.006478	-0.02687	-0.36792
-0.93463	-0.9259	0.139207	-1.07475	-1.47652	-2.90762	-0.77559	0.04967	0.068839	-0.83773	-0.64908	-0.34636	-0.55092	1.65E-02
-1.0696	-0.7733	-0.27437	-1.32861	-1.61693	-2.16688	-4.33917	0.238916	-0.1998	-1.99157	-2.85389	-0.07118	0.060271	-0.13232
-0.97106	-0.98434	0.053304	-1.17673	-1.20096	-1.91044	-0.08929	0.069834	-0.06983	-0.23751	-0.97555	-0.25832	-0.17546	1.59E-02
-1.00391	-0.914	-0.05592	-1.22736	-1.33962	-1.99592	-1.50592	0.126194	-0.11316	-0.8222	-1.60166	-0.19594	-0.09688	-0.03351
-0.95285	-0.95512	0.096255	-1.12574	-1.33874	-2.40903	-0.43244	0.059752	-0.0005	-0.53762	-0.81231	-0.30234	-0.36319	0.0162
0.121346	0.512667	-0.40009	0.537356	-0.47705	0.081615	-1.37E-03	-0.25815	-0.03632	0.054671	-0.18472	-0.25948	0.33468	-0.13926
-0.15476	0.054913	-0.34776	0.210428	-1.82E-02	0.256208	-0.08998	-0.03653	-1.48E-02	-0.18692	-0.82437	0.189169	0.146483	1.79E-02
0.258922	0.100928	0.260115	0.260293	0.031747	-1.17885	0.375016	-0.37638	-0.30086	-0.85733	-0.72752	-0.48347	0.18044	-0.2324
-0.0167	0.28379	-0.37392	0.373892	-0.24763	0.168912	-0.04567	-0.14734	-0.02556	-0.06612	-0.50455	-0.03515	0.240581	-0.06068
0.12103	0.08559	0.057491	0.243671	0.015098	-0.70049	0.220018	-0.26309	-0.20551	-0.63386	-0.75981	-0.25926	0.169121	-0.14897
-0.37106	-0.30739	-0.75659	-10.3569	-6.13844	-6.46833	-3.60733	-0.73043	-0.85836	-7.59866	-3.76722	-0.4437	-0.38888	-0.04183
-0.03212	-0.50254	0.071019	-9.48883	-4.52253	-6.93258	-3.26454	-0.61616	-0.74364	-8.08211	-3.23976	-0.06554	0.127971	-0.2473
0.225057	0.035467	-0.24578	-10.1629	-5.69544	-7.11737	-3.5294	-0.8392	-0.56478	-8.07041	-3.4668	-0.95739	-0.10518	0.280364
0.096469	-0.23353	-0.08738	-9.32588	-4.60899	-6.52497	-3.39697	-0.72768	-0.65421	-7.07626	-3.35328	-0.51147	0.011393	0.016531
-0.02041	-0.252	-0.25468	-9.58364	-4.99135	-6.51081	-3.44956	-0.72837	-0.70525	-7.20686	-3.45676	-0.49452	-0.08867	0.001942
-0.56698	0.034801	-0.74601	-7.00566	-3.73206	-4.98797	-2.65162	0.259659	-0.31999	-2.39198	-2.89997	-0.49595	0.105902	-0.24803
-0.14855	-0.39795	-0.24203	-5.91674	-3.54411	-4.4447	-2.26443	0.147895	-0.08419	-2.15908	-3.97305	-0.15518	-0.22456	-0.53699
0.101144	-0.17222	-0.12389	-5.36156	-2.61659	-3.98985	-2.43197	0.100043	0.029886	-2.5386	-4.16801	-0.08067	-0.35844	-0.09195
-0.0237	-0.28508	-0.18296	-5.63915	-3.08035	-4.21728	-2.3482	0.123969	-0.02715	-2.34884	-4.07053	-0.11793	-0.2915	-0.31447
-0.10693	-0.36033	-0.22234	-5.82421	-3.38953	-4.36889	-2.29235	0.139919	-0.06518	-2.22234	-4.00554	-0.14277	-0.24688	-0.46282
-0.43637	-0.19333	-0.75306	-9.23984	-5.33631	-5.97488	-3.28876	-0.4004	-0.6789	-5.8631	-3.17762	-0.42572	-0.19293	-0.10787
-0.07093	-0.46767	-0.03333	-8.29814	-4.19639	-6.10329	-2.93117	-0.36147	-0.52382	-6.10777	-3.3531	-0.34196	-0.1269	-0.17783
0.183752	-0.03376	-0.20515	-8.56247	-4.66916	-6.07486	-3.16359	-0.52612	-0.36656	-6.22647	-3.35736	-0.32707	-0.11279	-0.02069
0.056413	-0.25072	-0.11924	-8.09697	-4.09944	-5.75574	-3.04738	-0.4438	-0.44519	-5.50046	-3.39149	-0.6012	-0.1589	0.064051
-0.04925	-0.28811	-0.2439	-8.3305	-4.45741	-5.79684	-3.06382	-0.43894	-0.49189	-5.54535	-3.23658	-0.08605	-0.00719	-0.30323
0.361257	0.00152	0.150337	1.137738	0.795307	0.114927	0.006958	-0.25625	0.140263	-0.52637	0.214771	0.282198	0.229572	0.01128
0.595229	0.208664	-0.18938	-0.07364	-0.3422	-0.28358	-1.26442	-0.22963	0.250705	-0.95156	-0.24123	0.036792	0.342313	-0.03731
0.072935	0.08736	0.111982	0.192776	0.302397	-0.10282	-0.47593	0.116672	0.205683	-0.42484	-0.29197	0.116164	-0.11459	0.105231
0.361257	0.00152	0.150337	1.137738	0.795307	0.114927	0.006958	-0.25625	0.140263	-0.52637	0.214771	0.282198	0.229572	0.01128
-0.17982	-0.14452	0.190304	-0.47076	-0.35433	-1.55315	-1.27674	-0.60325	-0.30373	-1.1048	-0.73771	-0.25702	0.112773	-0.26657

Dim 68	Dim 69	Dim 70	Dim 71	Dim 72	Dim 73	Dim 74	Dim 75	Dim 76	Dim 77	Dim 78	Dim 79	Dim 80	Dim 81
-0.59973	1.795568	6.446806	5.208115	8.451741	-0.31064	-0.42354	0.473859	0.079101	-0.09085	-0.07439	-2.04393	-0.38718	0.244407
-0.1226	2.336301	4.849419	4.785524	9.922402	0.216408	-0.01199	1.274512	0.463554	0.129962	-0.11632	-2.12569	-0.65111	0.245646
-0.36117	4.464065	7.543887	5.324372	10.82259	-0.04712	-0.21777	0.874186	0.271327	1.96E-02	-0.09535	-1.27774	-0.51914	0.245027
-0.28164	2.156056	5.381881	4.926388	9.432181	0.040725	-0.14917	1.007628	0.335403	0.056357	-0.10234	-2.09844	-0.56313	0.245233
-0.44069	1.975812	5.914344	5.067251	8.941961	-0.13496	-0.28635	0.740743	0.207252	-0.01725	-0.08836	-2.07118	-0.47516	0.24482
0.616999	4.80679	7.534689	4.448534	8.200874	0.195837	0.187849	-0.59562	0.482607	-0.17903	0.125635	-2.23731	-1.01171	-0.43127
-0.08762	2.346158	6.82978	5.103545	8.554401	-0.36861	-0.17872	0.448424	-0.31872	0.060004	0.277838	-1.26101	-1.40705	-0.27666
0.264689	2.036689	7.059318	6.711289	7.478003	-0.08639	4.56E-03	-0.0736	0.081941	-0.05951	0.201736	-1.7689	-1.20938	-0.35396
0.382126	3.986579	7.29972	4.666871	8.318716	0.007688	0.06566	-0.2476	0.215496	-0.09935	0.176369	-1.91188	-1.14349	-0.37973
0.147252	2.139846	6.982806	6.175374	7.836802	-0.18046	-0.05653	0.100409	-0.05161	-0.01967	0.227104	-1.59961	-1.27527	-0.32819
-0.0636	4.464065	7.543887	5.324372	10.82259	0.047718	-0.0377	0.324932	0.618623	0.315551	0.240615	-1.27774	-0.56806	-0.20759
0.154196	3.350681	6.5937	4.941636	9.349402	-0.14012	-0.25875	0.30434	0.788562	0.586693	0.572566	-1.92117	-0.4618	-0.23218
-0.28139	2.948971	7.144328	6.563068	11.95167	0.235557	0.183349	0.345525	0.448684	0.04441	-0.09134	-1.43589	-0.67433	-0.183
0.081598	3.568917	6.910429	5.127861	9.840466	-0.07751	-0.18507	0.311204	0.731916	0.496312	0.461916	-1.70669	-0.49722	-0.22399
0.008999	3.981721	8.089018	5.449187	10.33153	-0.0149	-0.11139	0.318068	0.675269	0.405932	0.351265	-1.49222	-0.53264	-0.21579
0.107947	-0.3549	4.29787	3.472076	5.634494	-0.33326	0.249714	0.099262	0.272274	-0.80462	-1.59E-03	-1.36262	-0.43051	1.01E-03
-0.29202	0.508044	3.232946	3.190349	6.614935	-0.07888	0.296191	-0.05657	0.153549	-0.11284	-0.09542	-1.41713	-0.17527	-0.18303
-0.29932	0.212263	5.029258	3.549581	7.215062	0.30023	0.196664	1.147821	0.763378	-0.04364	0.503934	-0.85183	-0.36632	0.322006
-0.09204	0.076572	3.765408	3.331213	6.124714	-0.20607	0.272952	0.021344	0.212911	-0.45873	-0.04851	-1.38987	-0.30289	-0.09101
-0.09569	-0.07132	4.663564	3.510829	6.424778	-0.01651	0.223189	0.623541	0.517826	-0.42413	0.251172	-1.10722	-0.39841	0.161508
0.19334	5.99885	5.023126	2.965689	5.467249	0.78808	1.39E-02	2.833098	1.381888	1.405575	-0.12319	-1.49154	-1.95406	-0.0915
0.493235	6.291228	4.553187	3.402363	5.702934	0.110711	0.914031	0.066705	2.71369	-1.04E-02	-0.38944	-0.84067	-1.10274	0.137889
0.42487	6.83586	4.706212	3.624193	5.885335	0.103689	1.257276	-0.25486	2.275292	0.185278	0.540624	-1.17927	-1.44886	-0.21555
0.39327	5.937683	4.709833	3.256805	5.624372	0.3365	0.613987	0.988836	2.269756	0.461592	-0.30069	-1.05763	-1.38651	0.061425
0.470447	7.139438	4.604195	3.476306	5.763734	0.10837	1.028446	-0.04048	2.567557	0.054826	-0.07942	-0.95354	-1.21811	0.020077
-0.11335	-0.33405	5.029258	3.549581	7.215062	0.040499	1.95E-02	-0.47402	0.059623	-0.85247	0.186164	-0.85183	0.143039	-0.12088
0.120006	-0.13758	4.3958	3.294424	6.232935	-0.03633	0.112554	-1.01476	-0.3236	-0.53421	-0.3023	-1.28078	-0.41295	0.260507
-0.35853	-0.22225	4.762885	4.375379	7.967777	-0.15378	-0.12116	-2.20213	-0.47533	-1.09272	-0.1408	-0.95726	-0.48062	0.277392
-0.19508	-0.29679	4.940467	3.824847	7.465967	-0.02426	-0.02739	-1.05005	-0.11869	-0.93256	0.077176	-0.88697	-0.06485	0.011877
0.003327	-0.23582	4.712529	3.422003	6.723998	0.002087	0.066027	-0.74439	-0.13199	-0.69334	-0.05807	-1.0663	-0.13496	0.069814
-0.95472	1.594465	5.372338	4.340096	7.043117	-0.35447	-0.2316	0.910926	0.357713	0.057507	-0.34468	-1.70327	-1.26522	0.185223
1.49E-02	1.478055	4.041183	3.987937	8.268668	0.451236	-0.0581	0.130537	0.674822	-0.28572	-0.06476	-1.77141	-0.95391	-0.19887
0.068598	0.7621	6.286572	4.436977	9.018827	0.951918	0.340821	3.941961	1.373194	1.953603	0.310746	-1.06479	-0.41292	-0.21445
0.041749	1.120078	5.163878	4.212457	8.643748	0.701577	0.141361	2.036249	1.024008	0.833942	0.122991	-1.4181	-0.68342	-0.20666
-0.46991	1.53626	4.70676	4.164016	7.655893	0.048384	-0.14485	0.520732	0.516267	-0.11411	-0.20472	-1.73734	-1.10956	-0.00682
-0.05072	6.932776	6.278908	3.707112	6.834062	-0.17906	0.958653	0.398592	1.939731	-0.71886	0.126279	-1.86443	-0.30629	-0.18391
-0.10599	7.238819	5.691483	4.252954	7.128667	0.099207	0.779493	1.906844	2.513311	0.056402	0.384923	-1.05084	-0.70613	0.567843
0.26743	7.418751	5.882765	5.167741	10.18167	0.081841	0.282952	0.981435	1.671617	0.714305	0.147148	-1.47408	-0.63681	0.537501
0.142958	8.025441	5.819005	4.862812	9.830669	0.08763	0.448466	1.289905	1.952182	0.495004	0.226406	-1.333	-0.65991	0.547615
0.108353	7.175764	6.080837	4.437426	9.007866	-0.04861	0.620803	0.690014	1.805674	-0.00228	0.136714	-1.66926	-0.47155	0.176797
1.56E-02	-0.60938	6.286572	4.436977	9.018827	0.290641	-0.04346	1.828512	-0.16361	0.446383	-0.29458	-1.06479	0.09597	-0.2301
0.159671	-0.3969	5.49475	4.11803	7.791169	0.251334	0.180683	0.338364	0.258345	1.35E-02	-0.15328	-1.60097	0.125293	-0.39822
0.154261	-0.78343	5.953607	5.469223	9.959721	0.474212	0.521216	0.370793	0.529944	-0.32232	-0.27709	-1.19657	0.045886	-0.12092
0.087635	-0.50314	5.890661	4.277503	8.404998	0.270987	0.068612	1.083438	0.047366	0.229941	-0.22393	-1.33288	0.110632	-0.31416
0.156064	-0.65459	5.800655	5.018826	9.23687	0.399919	0.407705	0.359983	0.439411	-0.21038	-0.23582	-1.33137	0.072355	-0.21335
-0.56409	-1.1254	-1.94082	-0.7325	-1.64708	-0.48763	0.229009	-0.96895	-0.35928	-1.27946	-0.04088	0.484963	-0.675	-0.12208
-0.43197	-1.02623	-1.94639	-0.49519	-1.72099	-2.31E-02	0.53771	-0.3314	0.982395	-0.14011	0.105666	0.112767	-0.50931	0.291973
-0.11001	-0.7143	-1.52761	0.032367	-0.29378	-0.07033	-0.07059	-0.06071	0.57892	0.039357	-0.13989	0.040744	-2.22753	0.199305
-0.27099	-0.87026	-1.737	-0.23141	-1.00738	-0.04672	0.23356	-0.19606	0.780657	-0.05038	-0.01711	0.076755	-1.36842	0.245639
-0.34427	-0.93405	-1.78795	-0.35668	-1.16731	-0.15694	0.232423	-0.38928	0.495673	-0.35765	-0.02305	0.178807	-1.19506	0.153708
-0.36795	-0.67896	-2.53186	-3.29277	-2.38858	-0.09424	-0.10073	-0.31431	0.372823	-0.45617	0.118192	-0.21706	0.126367	0.275874
-0.72341	-1.19952	-2.29688	-2.98781	-2.97817	-0.1233	0.163061	-1.28194	0.840177	-1.52119	0.066648	0.145913	-0.02934	-0.09057
-0.14453	-1.24619	-2.3418	-2.59659	-2.4247	-0.27789	-0.08278	-3.39554	0.102308	-1.89327	0.179456	-0.07207	0.125902	0.261406
-0.43397	-1.22286	-2.31934	-2.7922	-2.70144	-0.20059	0.040138	-2.33874	0.471243	-1.70723	0.123052	0.036921	0.048281	0.085418
-0.62693	-1.2073	-2.30437	-2.92261	-2.88592	-0.14906	0.122087	-1.63421	0.717199	-1.5832	0.08545	0.109583	-0.00347	-0.03191
-0.46242	-0.9042	-2.01299	-1.5388	-1.78829	-0.32513	0.104364	-0.68841	-0.09213	-0.92273	0.014773	0.219759	-0.36446	0.018423
-0.4485	-0.96245	-1.84258	-1.21078	-1.69584	-0.13563	0.194351	-0.66179	0.578622	-0.72249	0.00833	0.15634	-0.72961	0.062395
-0.21141	-0.93959	-1.82686	-1.00492	-1.41502	-0.12077	0.113088	-1.24994	0.504323	-0.66143	0.049511	0.022209	-0.78228	0.235093
-0.21092	-0.83787	-1.69325	-0.91124	-1.07743	-0.10923	-0.02914	-0.81615	0.505787	-0.54537	-0.04324	0.036849	-1.32563	0.148522
-0.46917	-1.02057	-1.94051	-1.27247	-1.99859	-0.0636	0.36458	-0.74435	0.830801	-0.61213	0.09213	0.104452	-0.30793	0.165231
-0.31655	-0.16318	-0.4084	-0.08705	-0.67267	0.851726	0.253734	1.034921	0.671472	0.440796	-0.28148	-0.26742	-0.3135	-0.03552
-0.28826	0.063094	0.670689	-0.10806	-0.29741	0.663779	-0.15766	1.35767	1.017427	0.451426	0.048815	0.049279	-0.05008	-0.62019
0.038741	-0.10125	0.062652	-0.19347	-0.96975	0.667287	0.262141	0.921489	1.01867	0.292769	0.001797	0.167531	-0.07514	-0.0245
-0.31655	-0.16318	-0.16102	-0.08705	-0.79335	0.851726	0.611734	1.034921	0.671472	0.440796	-0.28148	-0.26742	-0.3135	-0.03552
-0.02284	0.084701	0.262262	0.122227	-0.56492	0.588088	0.360272	0.974099	0.354341	0.251849	0.023854	-0.14512	0.362238	0.202164

Dim 82	Dim 83	Dim 84	Dim 85	Dim 86	Dim 87	Dim 88	Dim 89	Dim 90	Dim 91	Dim 92	Dim 93	Dim 94	Dim 95
-0.75746	-4.74732	-0.50929	-0.96453	-6.66989	-2.07452	-0.89894	-3.72596	-10.0278	-0.71395	-0.10344	-1.48504	-0.01497	-0.38524
-1.58681	-6.71583	-0.44626	-0.6927	-10.3272	-3.62997	-1.21145	-4.3491	-10.8796	-0.47463	0.073749	-1.18566	-0.30563	-0.71876
-1.17214	-4.73158	-0.47777	-0.82861	-8.49854	-2.85224	-1.0552	-4.03753	-10.4537	-0.59429	-0.01485	-1.33535	-0.16031	-0.552
-1.31036	-5.393	-0.46727	-0.78331	-9.10808	-3.11148	-1.10728	-4.14139	-10.5957	-0.5544	0.014685	-1.28546	-0.20875	-0.60758
-1.03391	-4.07016	-0.48828	-0.87392	-7.88899	-2.593	-1.00311	-3.93368	-10.3117	-0.63417	-0.04438	-1.38525	-0.11186	-0.49641
-0.72746	-3.51636	-3.12536	-1.59914	-3.66884	-2.08769	-1.49385	-9.43037	-7.46268	-5.34897	-1.68688	-7.6206	-1.59727	-2.16941
0.015759	-2.40577	-2.71086	-1.65609	-2.53378	-1.11255	-1.08006	-9.21571	-7.31472	-3.85341	-1.56914	-6.05784	-1.0794	-2.07795
-0.35585	-3.0566	-3.03782	-1.52848	-3.10131	-1.60012	-1.28695	-10.048	-6.5162	-4.60119	-1.62801	-6.83922	-1.33833	-2.12368
-0.47972	-3.14616	-2.98719	-1.61813	-3.29049	-1.76264	-1.35592	-9.35882	-7.41336	-4.85045	-1.64763	-7.09968	-1.42464	-2.13892
-0.23198	-2.83966	-2.92883	-1.57102	-2.91213	-1.4376	-1.21799	-9.7706	-6.78237	-4.35193	-1.60839	-6.57876	-1.25202	-2.10844
-0.28689	-1.6969	-0.23668	-0.34561	-2.8815	-0.7921	-0.90091	-2.659	-9.69506	-0.76637	-0.45279	-0.86393	-0.38542	-0.54729
-0.30884	-2.82335	-0.36613	-0.22896	-2.61022	-0.6067	-1.01836	-3.15281	-10.6699	-0.74501	-0.62438	-1.36539	-0.3911	-1.1741
-0.26495	-0.57046	-0.10724	-0.46227	-3.15278	-0.97751	-0.78347	-2.16519	-8.7202	-0.78772	-0.2812	-0.36246	-0.37974	0.079513
-0.30152	-2.44787	-0.32298	-0.26784	-2.70065	-0.6685	-0.97921	-2.98821	-10.345	-0.75213	-0.56718	-1.19824	-0.38921	-0.96516
-0.29421	-2.07239	-0.27983	-0.30673	-2.79107	-0.7303	-0.94006	-2.82361	-10.02	-0.75925	-0.50998	-1.03108	-0.38732	-0.75623
-0.10726	-0.83163	-0.43084	0.03204	-4.69174	-1.27445	-0.75425	-2.96164	-4.07497	-0.80359	-0.22055	-0.66711	0.28743	-0.29286
-0.04589	-0.15359	-0.0294	-0.42706	-4.54364	-1.40683	-6.66E-04	-1.7538	-6.59728	-1.19862	-0.35597	-0.74781	0.06084	-0.50294
0.307879	-0.47764	0.169008	0.171581	-4.34369	-1.62754	-0.7992	-3.77429	-6.34931	-0.93367	-0.04402	-0.50375	0.183715	-0.28302
-0.07657	-0.49261	-0.23012	-0.19751	-4.61769	-1.34064	-0.37746	-2.35772	-5.33613	-1.0011	-0.28826	-0.70746	0.174135	-0.3979
0.100309	-0.65464	-0.13092	0.101811	-4.51771	-1.451	-0.77672	-3.36796	-5.21214	-0.86863	-0.13229	-0.58543	0.235572	-0.28794
-0.97376	-0.69422	-0.19716	-0.29404	-4.37839	-0.20807	-0.57615	-11.9862	-7.94095	-4.13872	-0.50465	-5.90579	-1.21358	-2.06019
-1.05184	-0.50917	-0.50385	-0.50389	-4.49748	-0.63624	-0.60504	-10.6397	-8.0752	-3.06629	0.103565	-4.4693	-1.1395	-1.88904
-0.8766	-0.58597	-0.67747	-0.78692	-4.41046	-0.35412	-0.76446	-8.3925	-11.742	-3.66843	-0.05849	-5.79821	-0.93529	-2.35061
-1.02581	-0.57085	-0.40162	-0.43394	-4.45778	-0.49352	-0.59541	-9.7552	-10.6971	-3.42377	-0.09917	-4.94813	-1.16419	-1.94609
-0.99342	-0.53477	-0.56172	-0.59823	-4.46847	-0.5422	-0.65818	-8.89064	-9.29748	-4.267	0.049547	-4.91227	-1.07143	-2.0429
0.199711	0.030403	0.106824	-0.10687	-4.03723	-1.72012	-0.57719	-5.71617	-6.14038	-0.92147	0.163337	-0.62238	-0.15212	-0.3861
0.245973	2.81E-04	0.216664	-0.26209	-4.72849	-1.80662	-0.42499	-3.02147	-6.8326	-0.41626	0.057683	-0.80094	-0.54773	-0.2213
0.075071	-0.27846	0.35114	0.124045	-4.42586	-1.61628	-0.60671	-3.34345	-6.65265	-0.74367	0.125428	-0.30334	-0.16781	-0.20058
0.158164	-0.07255	0.188263	-0.0299	-4.16677	-1.6855	-0.58703	-4.92526	-6.31114	-0.8622	0.150701	-0.51603	-0.15735	-0.32426
0.222842	0.015342	0.161744	-0.18448	-4.38286	-1.76337	-0.50109	-4.36882	-6.48649	-0.66887	0.11051	-0.71166	-0.34993	-0.3037
-0.55671	-0.8022	0.032835	-0.25932	-3.76048	-1.02323	-0.90069	-3.16588	-8.74772	-0.99705	-0.44575	-1.15223	-0.378	-0.32658
-0.47841	-0.73856	-0.19993	-0.41525	-3.46154	-1.00629	-0.36932	-2.72565	-10.6905	-1.18892	-0.54562	-0.79301	-0.50265	-0.02827
-0.09177	-0.83123	0.122293	-0.27966	-4.82304	-1.97211	-0.59341	-2.78489	-7.22867	-1.27866	-0.48539	-1.19902	-0.04788	-0.1663
-0.28509	-0.7849	-0.03882	-0.34746	-4.14229	-1.4892	-0.48137	-2.75527	-8.95958	-1.23379	-0.51551	-0.99602	-0.27526	-0.09729
-0.51756	-0.77038	-0.08355	-0.33728	-3.61101	-1.01476	-0.63501	-2.94576	-9.7191	-1.09298	-0.49568	-0.97262	-0.44032	-0.17742
-1.04748	-3.33065	-0.22874	-0.84646	-17.4467	-5.71034	-0.90226	-7.08573	-11.474	-2.51007	-0.48925	-3.6643	-1.44787	-1.34093
-1.79396	-4.00928	-0.13681	-0.61168	-20.7627	-7.00976	-0.61911	-9.6801	-12.3252	-2.55647	-0.45893	-3.16984	-0.86717	-0.93264
-1.4201	-1.31034	-0.29302	-0.38461	-19.6926	-7.28044	-0.29472	-9.61518	-9.64838	-3.31348	0.117199	-5.08681	-1.41387	-1.53579
-1.54472	-2.20999	-0.24095	-0.4603	-17.716	-7.19021	-0.40285	-8.30349	-11.2073	-3.06114	-0.07484	-4.44782	-1.23164	-1.33474
-1.23379	-2.32049	-0.26088	-0.61553	-21.5697	-6.49539	-0.59849	-9.85046	-10.0612	-2.91177	-0.18602	-4.37556	-1.43087	-1.43836
3.80E-04	0.138308	-0.17958	-0.19871	-4.73014	-1.46961	-0.29524	-0.8354	-2.2012	-0.37062	0.146585	-0.27461	0.123444	-0.03204
-0.19972	0.061746	0.233166	0.058269	-3.73579	-1.27368	-0.52941	-1.53229	-2.45737	-0.81419	0.45832	-0.2589	0.135571	-0.13995
-1.93E-04	-0.13797	0.308459	-0.29364	-3.68813	-1.13928	-1.14819	-1.6796	-2.07243	2.11E-03	0.042592	-0.2904	-0.29074	0.188242
-0.09967	0.100027	0.026792	-0.07022	-4.23296	-1.37164	-0.41232	-1.18384	-2.32929	-0.5924	0.302453	-0.26675	0.129508	-0.086
-0.0667	-0.0714	0.283361	-0.17634	-3.70402	-1.18408	-0.94193	-1.6305	-2.20074	-0.26999	0.181168	-0.2799	-0.14863	0.078844
-0.35634	-2.37722	-0.42716	-0.56872	-3.90392	-2.34588	-1.06195	-0.49653	-1.63219	-0.8057	-0.59444	-0.30178	-0.27375	-0.31185
-0.13768	-0.70874	-0.20051	-0.16772	-3.30536	-2.28081	-0.45747	-0.58939	-1.52113	-0.53267	-0.26551	-0.54882	2.20E-03	0.076652
-0.16941	-1.11044	-1.51E-02	-0.04612	-4.08223	-2.75558	-0.47149	-0.89482	-2.02591	-0.44594	-0.32541	-0.19599	-0.15047	-0.38618
-0.15355	-0.90959	-0.1078	-0.10692	-3.6938	-2.51819	-0.46448	-0.7421	-1.77352	-0.4893	-0.29546	-0.37241	-0.07413	-0.15476
-0.20425	-1.2765	-0.18764	-0.22237	-3.74633	-2.47511	-0.61385	-0.68071	-1.73819	-0.5684	-0.3702	-0.35475	-0.12404	-0.19403
-0.38382	-1.30868	0.092248	0.154908	-2.78713	-1.21299	-0.04332	-1.28326	-1.29097	-0.68169	-0.41493	-0.56388	0.030794	-0.22099
-0.15511	-1.37318	0.124466	-0.42742	-2.78666	-1.5862	-0.4265	-0.95321	-2.76651	-0.19337	-0.25059	-0.18257	-0.07591	0.077946
-0.26006	-2.63221	0.308394	-0.32343	-2.67089	-1.30146	-0.91294	-1.81445	-3.83735	-0.47454	0.220316	-0.50368	-0.16856	-0.31163
-0.20759	-2.0027	0.21643	-0.37543	-2.72877	-1.44383	-0.66972	-1.38383	-3.30193	-0.33395	-0.01514	-0.34313	-0.12224	-0.11684
-0.17261	-1.58302	0.155121	-0.41009	-2.76736	-1.53874	-0.50757	-1.09675	-2.94498	-0.24023	-0.17211	-0.23609	-0.09135	0.013016
-0.34258	-1.86812	-0.22654	-0.29093	-3.28053	-1.81734	-0.6541	-0.72683	-1.41345	-0.71254	-0.49636	-0.36973	-0.15462	-0.2615
-0.17473	-1.22661	-0.07154	-0.27642	-3.18544	-2.01959	-0.51191	-0.72776	-1.96915	-0.40683	-0.30652	-0.27454	-0.10002	-0.09089
-0.17917	-1.42528	0.037863	-0.17221	-3.11522	-1.95063	-0.58409	-1.05182	-2.34738	-0.45291	-0.10453	-0.39221	-0.10084	-0.1971
-0.17124	-1.33642	0.063048	-0.15292	-3.36848	-2.14107	-0.50724	-1.00026	-2.32093	-0.37993	-0.20105	-0.23243	-0.13138	-0.27156
-0.14047	-0.95457	-0.06907	-0.23772	-2.9134	-1.88674	-0.44474	-0.72059	-1.8979	-0.40092	-0.2173	-0.40927	-0.02913	-0.37517
-0.75628	-0.55777	-0.42903	-0.21917	-7.05418	-4.11814	-0.46807	-0.74743	-0.17606	-0.99782	-0.27285	-0.94356	0.236062	0.535032
0.206041	-0.61376	-0.10465	0.012239	-6.18909	-3.01956	-0.47596	3.691286	4.290879	0.03141	-0.2316	0.167942	0.204159	-0.16494
-0.16164	-0.4637	0.220607	-0.37091	-6.76691	-2.55605	-0.4142	-0.16206	1.314326	-0.9503	-0.12937	-0.99157	-0.15222	0.349767
-0.75628	-0.55777	-0.42903	-0.21917	-7.05418	-4.11814	-0.46807	-0.74743	-0.17606	-0.99782	-0.27285	-0.94356	0.236062	0.535032
-0.08952	0.070913	-0.01195	-0.18483	-7.05426	-3.35889	-0.39722	-0.2494	1.073169	-0.6224	0.196455	-0.03426	0.377187	0.403579

Dim 96	Dim 97	Dim 98	Dim 99	Dim 100	Dim 101	Dim 102	Dim 103	Dim 104	Dim 105	Dim 106	Dim 107	Dim 108	Dim 109
-0.25377	-4.14305	-0.95192	-0.19143	-1.16472	0.40443	-0.33897	0.264782	0.74376	-1.85386	-0.20875	-0.73917	-0.52666	-1.65598
-0.38281	-5.61675	-1.08153	-0.20685	-1.34133	0.381916	-0.28483	0.018182	0.956023	-3.2373	-0.08972	-0.88302	-0.88872	-1.62105
-0.31829	-3.6049	-1.01673	-0.19914	-1.25303	0.393173	-0.3119	0.141486	0.849892	-2.54558	-0.14924	-0.6836	-0.70769	-0.9009
-0.33979	-5.12552	-1.03833	-0.20171	-1.28246	0.389421	-0.30288	0.100382	0.885269	-2.77615	-0.1294	-0.83507	-0.76803	-1.63269
-0.29678	-4.63429	-0.99512	-0.19657	-1.22359	0.396925	-0.32093	0.182582	0.814514	-2.31501	-0.16908	-0.78712	-0.64734	-1.64434
-0.39648	-4.10135	-1.0034	-0.51766	-2.80726	-0.7928	-0.56119	0.804307	2.834254	-3.79636	-6.60713	-0.70447	-0.85037	-1.13684
0.173431	-4.49348	-0.96929	-0.73678	-2.91806	-0.67051	-0.25726	-0.08299	3.476696	-3.60728	-7.18069	-0.61648	-0.75004	-1.37758
-0.11152	-4.16992	-0.85884	-0.62722	-3.86266	-0.73166	-0.40923	0.360657	3.155475	-3.70182	-6.89391	-0.66048	-0.80021	-1.67894
-0.20651	-4.23206	-0.99203	-0.5907	-2.8442	-0.75204	-0.45988	0.50854	3.048401	-3.73334	-6.79832	-0.67514	-0.81693	-1.21709
-0.01654	-4.27777	-0.89566	-0.66374	-3.5478	-0.71128	-0.35857	0.212773	3.262548	-3.67031	-6.9895	-0.64581	-0.78349	-1.57849
0.237607	-1.36879	-0.51059	0.22999	-0.56626	0.166186	-0.14001	-0.19141	0.267159	-1.48867	0.172581	-0.58968	-0.43462	-0.9009
0.300468	-2.67462	-0.9751	-0.23954	-0.73577	0.285949	-0.24101	-0.41742	0.262398	-2.32015	0.015581	-0.36602	-0.69758	-1.32869
0.174745	-0.06296	-0.04608	0.69952	-0.39676	0.046424	-0.03901	0.034611	0.27192	-0.65719	0.329592	-0.81335	-0.17166	-1.31914
0.279514	-2.23935	-0.82026	-0.08303	-0.67927	0.246028	-0.20734	-0.34208	0.263985	-2.04299	0.067914	-0.44058	-0.60993	-1.18609
0.258561	-1.80407	-0.66543	0.07348	-0.62276	0.206107	-0.17368	-0.26674	0.265572	-1.76583	0.120248	-0.51513	-0.52227	-1.0435
0.223013	0.507581	0.911127	0.142182	-0.16085	0.430711	-0.19381	-0.03465	-3.11676	9.711711	0.192952	-0.56828	0.100145	-0.29659
-0.19098	-0.15791	0.249485	-0.04767	-0.20583	-0.19148	8.62E-03	-1.66E-02	-0.81457	-0.30634	-0.40667	-0.48643	-0.84993	-0.55659
-0.08175	-0.03273	0.237156	-0.35353	-0.45853	0.124839	0.47444	0.133104	-1.06651	0.676518	-0.10421	-0.70694	-0.32677	-0.49317
0.016015	0.174837	0.580306	0.047256	-0.18334	0.119615	-0.09259	-0.02562	-1.96566	4.702687	-0.10686	-0.52736	-0.37489	-0.42659
0.070632	0.237426	0.574142	-0.10567	-0.30969	0.277775	0.140316	0.049228	-2.09163	5.194114	0.044371	-0.63761	-0.11331	-0.39488
0.235833	0.730505	0.252307	0.218208	-0.04769	0.031823	0.047161	-1.85E-02	-0.53317	1.973195	0.101568	-0.84027	-0.23731	-1.65264
0.250281	0.666449	0.342088	-0.31559	-0.06477	0.397527	0.108511	-0.25607	-1.12575	0.409818	-0.226	-0.47724	0.035199	-2.35206
-0.41266	0.043155	-0.30104	-0.58111	-0.6971	-0.22219	-0.2043	-0.50366	-0.55915	-0.23347	-0.17946	-0.45682	-0.38814	-3.26933
0.245465	0.687801	0.312161	-0.13766	-0.05908	0.275626	0.088061	-0.17688	-0.92822	0.930944	-0.11681	-0.59825	-0.05564	-2.11892
0.0293	0.458685	0.127711	-0.40409	-0.27555	0.190954	0.004241	-0.3386	-0.93689	0.195387	-0.21049	-0.47043	-0.10591	-2.65782
0.188429	0.318978	-0.04681	0.065903	0.110521	-0.19124	0.395259	-0.08377	0.095389	-1.35E-02	0.218128	-0.56254	-0.42824	0.069616
-0.33385	0.556399	0.563991	-0.06069	-1.79E-02	0.159262	-0.30478	-1.80E-02	-0.48405	3.456953	0.070946	-0.64008	-0.32293	-0.28813
0.620264	0.535494	1.68E-02	-0.12699	0.305402	-0.28774	0.333711	-0.35972	-0.53122	2.691349	-0.03781	-0.58665	0.132227	1.47E-04
0.332374	0.39115	-0.02561	0.001604	0.175481	-0.22341	0.374743	-0.17576	-0.11348	0.888116	0.132814	-0.57058	-0.24142	0.046459
-0.07271	0.437688	0.25859	0.002605	0.04631	-0.01599	0.045237	-0.05089	-0.19433	1.721727	0.144537	-0.60131	-0.37559	-0.10926
-0.08042	-1.25856	-0.83115	-0.43012	-1.17499	-0.03231	-0.03306	-0.13131	0.803089	-5.78305	0.100888	-0.50162	-0.76577	0.379709
-0.40963	-0.5576	-0.53364	-0.84188	-0.48516	-0.14245	-0.15246	-0.0821	0.363538	0.227829	0.126592	-0.11817	-0.50226	-0.0276
-0.27054	-0.44239	0.108843	-0.03264	1.59E-03	0.383169	-0.17504	-0.0605	-0.18743	-1.73735	-0.30798	-0.53596	-0.13341	-0.50718
-0.34008	-0.5	-0.2124	-0.43726	-0.24178	0.120358	-0.16375	-0.0713	0.088055	-0.75476	-0.09069	-0.32706	-0.31784	-0.26739
-0.24503	-0.90808	-0.6824	-0.636	-0.83007	-0.08738	-0.09276	-0.1067	0.583314	-2.77761	0.11374	-0.3099	-0.63402	0.176056
-0.34884	1.921192	0.564173	0.315027	-0.12798	-0.32034	-1.52E-02	-0.22575	-0.38656	2.293075	-9.79E-03	-0.15236	-0.0851	-2.39623
0.220382	1.310124	1.012755	1.141387	-0.1997	-0.03202	0.069057	0.298293	-2.53732	6.541653	0.289462	1.38E-02	0.479696	-2.46955
0.078061	0.634159	0.485713	0.032865	-0.61932	0.190907	0.097392	0.191797	-1.66148	4.33986	0.374519	-0.49942	0.343233	-1.90337
0.125501	0.85948	0.661394	0.402372	-0.47945	0.116598	0.087947	0.227296	-1.95343	5.073791	0.346166	-0.32834	0.388721	-2.0921
-0.13539	1.277675	0.524943	0.173946	-0.37365	-0.06472	0.041096	-0.01698	-1.02402	3.316468	0.182364	-0.32589	0.129064	-2.1498
-0.04711	0.719568	-0.15823	0.492248	0.19214	-0.14053	-0.1099	0.065866	-0.91391	3.660959	-0.32788	-0.12528	7.68E-04	-0.16639
0.079759	0.457176	0.091622	-1.94E-02	-0.34506	-0.46109	0.050027	-0.0338	-0.53032	0.148138	-0.15497	0.061724	-0.28919	0.035249
-0.09717	0.460299	0.109761	0.61415	-0.17165	0.220439	0.222433	0.792052	-0.53477	3.721144	0.071964	-0.31344	-0.18097	-0.37259
0.016324	0.588372	-0.03331	0.236424	-0.07646	-0.30081	-0.02993	0.016033	-0.72211	1.904548	-0.24143	-0.03178	-0.14421	-0.06557
-0.03819	0.459258	0.103715	0.402967	-0.22945	-0.00674	0.164965	0.516768	-0.53329	2.530142	-0.00368	-0.18838	-0.21705	-0.23664
-0.23853	4.042734	1.446158	0.109132	1.738652	-0.44021	-0.57805	-2.09946	-12.9831	-0.70639	-0.96196	-1.83398	-0.68087	-0.30262
0.299561	3.516715	1.237397	1.472735	1.530289	0.083441	-0.3798	0.129564	-9.86897	-0.25887	-0.21319	-1.02313	0.119812	-0.50454
-0.21917	3.101152	1.871416	0.772832	1.892502	-0.11305	-0.5018	-1.04837	-9.63247	-0.71623	-0.20522	-1.25798	-0.17418	-0.26958
0.040193	3.308934	1.554407	1.122783	1.711395	-0.01481	-0.4408	-0.4594	-9.75072	-0.48755	-0.20921	-1.14056	-0.02718	-0.38706
-0.02949	3.492384	1.527344	0.869371	1.718209	-0.12116	-0.47511	-0.86942	-10.5588	-0.54226	-0.3974	-1.31391	-0.1906	-0.36595
-0.12684	2.677016	0.888885	0.272577	-0.15873	-0.09843	0.219798	0.309165	-0.16378	-0.30744	-0.29778	-0.46883	-0.18949	-0.25501
4.95E-03	2.338729	1.098585	0.348607	-0.28358	0.078124	-0.12951	0.156495	-0.59688	-0.44394	-0.30688	-0.21068	-1.86E-02	0.06429
0.130083	3.358256	0.844001	0.476383	0.064753	0.203761	0.047126	-0.65863	-1.65386	0.340251	0.106256	-0.49584	-0.44674	1.65E-02
0.067517	2.848492	0.971293	0.412495	-0.10941	0.140943	-0.04119	-0.25107	-1.12537	-0.05184	-0.10031	-0.35326	-0.23267	0.040395
0.025806	2.50865	1.056154	0.369903	-0.22552	0.099063	-0.10007	0.020641	-0.77304	-0.31324	-0.23803	-0.25821	-0.08996	0.056325
-0.18596	3.327436	1.167373	0.156594	0.994347	-0.29797	-0.27492	-1.16153	-5.47336	-0.52797	-0.67869	-1.26096	-0.47328	-0.26728
0.182087	3.236576	1.111528	1.003288	0.827228	0.076301	-0.27194	-0.69254	-5.84231	-0.30391	-0.23071	-0.6865	0.065967	-0.28247
-0.08866	3.783467	1.408561	0.624301	1.161512	-0.00018	-0.28654	-0.85102	-7.01997	-0.318	-0.0882	-0.92301	-0.25383	-0.15688
0.046715	2.942598	1.260044	0.813795	0.99437	0.038063	-0.27924	-0.36041	-6.24836	-0.31095	-0.15945	-0.80476	-0.09393	-0.21968
-0.00916	2.939816	1.272031	0.646957	0.959771	-0.03996	-0.31954	-0.5168	-6.61767	-0.43104	-0.31871	-0.87749	-0.14479	-0.20165
0.508092	-1.13236	-0.20961	-0.0473	-0.76837	-0.33345	-0.23859	-0.5363	-1.08832	-0.64118	0.149852	-1.09437	-0.22053	-0.08527
0.101935	-0.2083	-0.11751	0.142011	0.133934	0.119486	0.514017	-0.06071	-0.03654	-0.18563	0.197645	-0.83056	0.989048	-0.20715
-0.09498	0.230553	0.222304	-0.3438	0.07023	-0.23957	0.524279	0.354354	-0.03976	0.098331	-0.37329	-1.17703	0.06207	-0.12024
0.508092	-1.13236	-0.20961	-0.0473	-0.76837	-0.33345	-0.23859	-0.5363	-1.08832	-0.64118	0.149852	-1.09437	-0.22053	-0.08527
0.208042	0.255424	0.40536	-0.24819	0.121221	-0.10611	-0.32078	-0.03728	0.276972	0.108945	0.062872	-1.2077	1.682878	0.000833

Dim 110	Dim 111	Dim 112	Dim 113	Dim 114	Dim 115	Dim 116	Dim 117	Dim 118	Dim 119
-1.72391	-1.16461	-0.05882	0.176265	0.654719	0.62943	-0.23103	0.343751	0.029572	-3.57294
-1.79976	-1.43856	-0.82291	0.848001	0.225482	0.952284	0.044981	1.030583	0.382293	-3.26104
-2.20269	-1.30166	-0.97226	0.512133	0.4401	0.790857	-0.09303	0.687167	0.205933	-2.43154
-1.77447	-1.34724	-0.56821	0.624089	0.368561	0.844666	-0.04702	0.801639	0.264719	-3.36501
-1.74919	-1.25593	-0.31351	0.400177	0.51164	0.737048	-0.13903	0.572695	0.147146	-3.46897
-1.79832	-1.41966	-0.6724	-0.41595	-0.19427	-0.26146	-0.38695	-0.57403	-0.47821	-3.8977
-1.55466	-1.32993	-1.24181	0.560223	0.195437	0.826716	-0.44267	0.272904	-0.18501	-2.97368
-2.04699	-1.89294	-1.18283	0.072139	5.84E-04	0.282626	-0.41481	-0.15056	-0.33161	-3.74556
-1.7171	-1.56091	-1.05198	-0.09056	-0.06437	0.101263	-0.40553	-0.29172	-0.38048	-3.58969
-1.88288	-1.70527	-1.20249	0.234833	0.065535	0.46399	-0.4241	-0.00941	-0.28275	-3.48827
-2.20269	-1.30166	-0.97226	-0.25571	-0.29581	0.22585	0.418784	0.410756	-0.10754	-2.43154
-2.07242	-1.33112	-0.6316	-0.15116	-0.11348	0.490727	1.175431	0.35765	-0.05183	-3.2908
-1.93478	-1.50818	-1.1323	-0.36027	-0.47813	-0.03903	-0.33786	0.463862	-0.16325	-3.05026
-2.11584	-1.3213	-0.74515	-0.18601	-0.17425	0.402435	0.923216	0.375352	-0.0704	-3.00438
-2.15926	-1.31148	-0.85871	-0.22086	-0.23503	0.314142	0.671	0.393054	-0.08897	-2.71796
-1.14927	-0.77641	-0.03921	-0.38993	-5.30E-03	-0.75012	-0.1477	-1.15444	0.033157	-7.14588
-1.19984	-0.95904	-0.54861	-0.4584	-0.40728	-0.90988	-0.22873	-0.92785	-0.09111	-6.52208
-1.46846	-0.86777	-0.64817	0.133831	0.135353	0.409388	0.738806	-0.35914	-0.20965	-4.86307
-1.17456	-0.86772	-0.29391	-0.42416	-0.20629	-0.83	-0.18821	-1.04115	-0.02897	-6.83398
-1.30887	-0.82209	-0.34369	-0.12805	0.065026	-0.17037	0.295555	-0.75679	-0.08824	-6.00448
-1.70888	-0.94644	-0.44826	1.810853	-0.20567	2.197225	1.940089	0.812032	-1.41E-02	-7.79539
-1.03644	-0.88662	-0.82787	0.103824	0.046166	0.095896	0.062269	-0.75222	-0.08777	-5.94735
-1.36466	-1.26196	-0.78855	-0.30341	0.190574	-0.78129	-1.68873	0.065645	0.089197	-7.49113
-1.26059	-0.90656	-0.70134	0.672833	-0.03778	0.796339	0.688209	-0.2308	-0.06321	-6.56337
-1.14585	-1.01173	-0.81477	-0.03192	0.094302	-0.1965	-0.5214	-0.4796	-0.02878	-6.46195
-1.46846	-0.86777	-0.64817	-0.26808	-0.33746	-0.71705	-0.31048	-2.07849	-0.11053	-4.86307
-1.38161	-0.88742	-0.42106	-0.45891	-0.40636	-1.47458	-9.13E-03	-1.97832	0.373977	-6.58161
-1.28985	-1.00545	-0.75487	-1.52656	0.258542	-1.82714	-0.30429	-2.3761	-0.11631	-6.10052
-1.40892	-0.91367	-0.68374	-0.68757	-0.13879	-1.08708	-0.30841	-2.1777	-0.11246	-5.27556
-1.42504	-0.8776	-0.53462	-0.36349	-0.37191	-1.09582	-0.1598	-2.02841	0.131722	-5.72234
-1.43659	-0.97051	-0.04901	0.26201	1.43E-02	1.438008	0.396256	0.85331	0.118757	-5.35941
-1.4998	-1.1988	-0.68576	0.273399	0.066727	-0.16154	-0.27448	-0.39144	-0.13476	-4.89156
-1.83557	-1.08472	-0.81022	2.195503	0.20415	4.660602	0.577558	3.944394	-0.60506	-3.64731
-1.66768	-1.14176	-0.74799	1.234451	0.135438	2.249529	0.151539	1.776478	-0.36991	-4.26943
-1.46819	-1.08465	-0.36739	0.267704	0.040513	0.638232	0.060888	0.230936	-0.008	-5.12548
-2.1361	-1.18305	-0.56033	-0.35312	-0.26558	-0.20513	-2.59546	-1.02733	0.254275	-5.84654
-1.29555	-1.10827	-1.03484	0.774913	-0.08989	1.199988	-2.24722	-0.40524	-0.30151	-4.46052
-1.70582	-1.57745	-0.98569	4.51E-03	0.254743	0.762854	-0.35134	0.478711	0.255978	-5.61835
-1.56907	-1.42106	-1.00207	0.261311	0.139864	0.908565	-0.9833	0.184061	0.070148	-5.2324
-1.92096	-1.38025	-0.77301	-0.1743	-0.00542	0.278862	-1.4734	-0.27431	0.255126	-5.73245
-1.83557	-1.08472	-0.81022	0.661879	-0.14626	1.568439	0.05562	1.067102	-0.08897	-3.64731
-1.72702	-1.10927	-0.52633	-0.11597	-0.46175	-1.10173	-2.48E-02	-1.87284	-1.46E-02	-4.9362
-1.61232	-1.25681	-0.94358	0.103342	0.076208	-0.08144	0.304451	-0.55881	-0.02668	-4.57539
-1.78129	-1.09699	-0.66827	0.272956	-0.30401	0.233353	0.01541	-0.40287	-0.05179	-4.29176
-1.65055	-1.20763	-0.8045	0.030238	-0.10311	-0.42154	0.1947	-0.99682	-0.02266	-4.69566
-0.25294	-0.94545	-0.66716	-1.33023	-0.5672	-1.17389	-0.78947	-2.13665	-0.23719	-0.11334
-0.61206	-0.1577	-0.6248	-2.24361	-0.34672	-0.73779	-1.25595	-1.91783	-0.07514	0.069855
-0.45065	-0.45528	-0.46734	-0.2929	-0.1107	-0.90615	0.180032	-1.21707	0.106389	-1.64E-02
-0.53135	-0.30649	-0.54607	-1.26826	-0.22871	-0.82197	-0.53796	-1.56745	0.015625	0.026727
-0.46175	-0.46623	-0.57634	-1.28375	-0.31333	-0.90995	-0.60084	-1.70975	-0.04758	-0.00829
0.220179	0.096378	0.147569	-0.89095	-4.44E-03	-3.63702	0.256087	-4.29665	0.264761	1.97E-02
-0.08297	0.107774	-0.19582	-2.42204	-0.02991	-2.89051	0.12358	-4.47708	-0.26059	0.030477
-0.40039	-0.39254	-0.28684	-2.15959	0.122332	-5.21099	-0.05928	-5.42362	-0.36041	0.188925
-0.24168	-0.14238	-0.24133	-2.29082	0.046213	-4.05075	0.03215	-4.95035	-0.3105	0.109701
-0.13587	0.024388	-0.21099	-2.3783	-0.00453	-3.27726	0.093103	-4.63484	-0.27723	0.056885
-0.07896	-0.53735	-0.34096	-1.0749	-0.33318	-1.89882	-0.37631	-2.68172	-0.05045	-0.05971
-0.39632	-0.05906	-0.43065	-2.1194	-0.21273	-1.39496	-0.69328	-2.6139	-0.1308	0.05101
-0.40491	-0.40508	-0.36891	-0.89115	-0.02396	-2.26691	0.085522	-3.0183	-0.05792	0.053384
-0.40061	-0.23207	-0.39978	-1.50528	-0.11834	-1.83093	-0.30388	-2.56676	-0.09436	0.052197
-0.32342	-0.2727	-0.40737	-1.5435	-0.18475	-1.62455	-0.32033	-2.5448	-0.12023	0.014114
-0.05925	-0.02372	-0.31685	1.11601	-0.21245	0.136273	0.205891	-0.11449	-0.04859	0.03536
0.038184	-0.05859	0.257902	1.072295	0.118825	0.340713	0.152163	-0.63521	0.025437	-0.01216
0.095602	-0.22363	-0.12961	-0.2656	-0.27314	0.261591	-0.50281	-0.21891	-0.27074	0.194653
0.061087	0.096783	-0.31685	1.11601	-0.21245	0.136273	0.205891	-0.11449	-0.04859	0.03536
0.13223	0.202609	-0.19966	0.217256	0.367582	-0.17527	-0.10951	-1.16103	0.59759	-0.25352

Table S5. SVM Cross-validation Results.

Method: Leave-one-out

Class Name	Count	Accuracy
TATP-1	5	100.00%
TATP-2	5	100.00%
TATP-3	5	100.00%
TATP-4	5	100.00%
TATP-5	5	100.00%
TATP-6	5	100.00%
TATP-7	5	100.00%
TATP-8	5	100.00%
TATP-9	5	100.00%
HMTD-1	5	100.00%
HMTD-2	5	100.00%
HMTD-3	5	100.00%
Control	5	100.00%

Sample Name	Rank 1 Name	Rank 1 Vote	Rank 2 Name	Rank 2 Vote	Rank 3 Name	Rank 3 Vote	Rank 4 Name	Rank 4 Vote	Rank 5 Name	Rank 5 Vote	Rank 6 Name	Rank 6 Vote	Rank 7 Name	Rank 7 Vote
TATP-1	TATP-1	12	TATP-3	11	TATP-7	10	TATP-2	9	TATP-6	8	TATP-9	7	TATP-4	6
TATP-1	TATP-1	12	TATP-3	11	TATP-7	10	TATP-2	9	TATP-6	8	TATP-9	7	TATP-4	6
TATP-1	TATP-1	12	TATP-3	11	TATP-7	10	TATP-2	9	TATP-6	8	TATP-9	7	TATP-4	6
TATP-1	TATP-1	12	TATP-3	11	TATP-7	10	TATP-2	9	TATP-6	8	TATP-9	7	TATP-4	6
TATP-1	TATP-1	12	TATP-3	11	TATP-7	10	TATP-2	9	TATP-6	8	TATP-9	7	TATP-4	6
TATP-2	TATP-2	12	TATP-1	11	TATP-3	10	TATP-5	9	TATP-7	8	TATP-6	7	TATP-4	6
TATP-2	TATP-2	12	TATP-1	11	TATP-7	10	TATP-3	9	TATP-5	8	TATP-6	7	TATP-4	6
TATP-2	TATP-2	12	TATP-1	11	TATP-3	10	TATP-7	9	TATP-5	8	TATP-6	7	TATP-4	6
TATP-2	TATP-2	12	TATP-1	11	TATP-5	10	TATP-7	9	TATP-3	8	TATP-6	7	TATP-4	6
TATP-2	TATP-2	12	TATP-1	11	TATP-7	10	TATP-3	9	TATP-5	8	TATP-6	7	TATP-4	6
TATP-3	TATP-3	12	TATP-7	11	TATP-1	10	TATP-9	9	TATP-6	8	TATP-4	7	TATP-5	6
TATP-3	TATP-3	12	TATP-1	11	TATP-7	10	TATP-9	9	TATP-6	8	TATP-4	7	TATP-2	6
TATP-3	TATP-3	12	TATP-7	11	TATP-1	10	TATP-9	9	TATP-6	8	TATP-4	7	TATP-5	6
TATP-3	TATP-3	12	TATP-7	11	TATP-1	10	TATP-9	9	TATP-6	8	TATP-4	7	TATP-2	6
TATP-3	TATP-3	12	TATP-7	11	TATP-1	10	TATP-9	9	TATP-6	8	TATP-4	7	TATP-2	6
TATP-4	TATP-4	12	TATP-6	11	TATP-9	10	TATP-7	9	Control	8	TATP-5	7	HMTD-2	6
TATP-4	TATP-4	12	TATP-6	11	TATP-9	10	TATP-7	9	Control	8	TATP-5	7	TATP-3	6
TATP-4	TATP-4	12	TATP-6	11	TATP-9	10	TATP-7	9	TATP-5	8	TATP-3	7	Control	6
TATP-4	TATP-4	12	TATP-6	11	TATP-9	10	TATP-7	9	Control	8	TATP-5	7	TATP-3	6
TATP-4	TATP-4	12	TATP-6	11	TATP-9	10	TATP-7	9	TATP-5	8	Control	7	TATP-3	6
TATP-5	TATP-5	12	TATP-6	11	TATP-8	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-5	TATP-5	12	TATP-8	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-5	TATP-5	12	TATP-6	11	TATP-4	10	TATP-8	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-5	TATP-5	12	TATP-6	11	TATP-8	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-5	TATP-5	12	TATP-6	11	TATP-8	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-6	TATP-6	12	TATP-4	11	TATP-9	10	TATP-7	9	TATP-5	8	TATP-3	7	TATP-8	6
TATP-6	TATP-6	12	TATP-4	11	TATP-9	10	TATP-7	9	TATP-5	8	TATP-3	7	Control	6
TATP-6	TATP-6	12	TATP-4	11	TATP-9	10	TATP-7	9	TATP-5	8	TATP-3	7	Control	6
TATP-6	TATP-6	12	TATP-4	11	TATP-9	10	TATP-7	9	TATP-5	8	TATP-3	7	Control	6
TATP-6	TATP-6	12	TATP-4	11	TATP-9	10	TATP-7	9	TATP-5	8	TATP-3	7	Control	6
TATP-7	TATP-7	12	TATP-3	11	TATP-1	10	TATP-6	9	TATP-4	8	TATP-9	7	TATP-5	6
TATP-7	TATP-7	12	TATP-6	11	TATP-3	10	TATP-4	9	TATP-9	8	TATP-1	7	TATP-5	6
TATP-7	TATP-7	12	TATP-3	11	TATP-9	10	TATP-4	9	TATP-6	8	TATP-1	7	Control	6
TATP-7	TATP-7	12	TATP-3	11	TATP-9	10	TATP-6	9	TATP-4	8	TATP-1	7	TATP-5	6
TATP-7	TATP-7	12	TATP-3	11	TATP-6	10	TATP-4	9	TATP-1	8	TATP-9	7	TATP-5	6
TATP-8	TATP-8	12	TATP-5	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-8	TATP-8	12	TATP-5	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-8	TATP-8	12	TATP-5	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-8	TATP-8	12	TATP-5	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-8	TATP-8	12	TATP-5	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-9	7	TATP-2	6
TATP-9	TATP-9	12	TATP-4	11	TATP-6	10	TATP-7	9	TATP-3	8	Control	7	TATP-5	6
TATP-9	TATP-9	12	TATP-4	11	TATP-6	10	TATP-7	9	TATP-3	8	Control	7	TATP-5	6
TATP-9	TATP-9	12	TATP-4	11	TATP-6	10	TATP-7	9	TATP-3	8	Control	7	TATP-5	6
TATP-9	TATP-9	12	TATP-4	11	TATP-6	10	TATP-7	9	TATP-3	8	Control	7	TATP-5	6
TATP-9	TATP-9	12	TATP-4	11	TATP-6	10	TATP-7	9	TATP-3	8	Control	7	TATP-5	6
HMTD-1	HMTD-1	12	HMTD-3	11	HMTD-2	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-1	HMTD-1	12	HMTD-3	11	HMTD-2	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-1	HMTD-1	12	HMTD-3	11	HMTD-2	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-1	HMTD-1	12	HMTD-3	11	HMTD-2	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-1	HMTD-1	12	HMTD-3	11	HMTD-2	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-2	HMTD-2	12	HMTD-3	11	HMTD-1	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-2	HMTD-2	12	HMTD-3	11	HMTD-1	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-2	HMTD-2	12	HMTD-3	11	HMTD-1	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-2	HMTD-2	12	HMTD-3	11	HMTD-1	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-2	HMTD-2	12	HMTD-3	11	HMTD-1	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-3	HMTD-3	12	HMTD-1	11	HMTD-2	10	TATP-4	9	Control	8	TATP-9	7	TATP-6	6
HMTD-3	HMTD-3	12	HMTD-1	11	HMTD-2	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-3	HMTD-3	12	HMTD-1	11	HMTD-2	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-3	HMTD-3	12	HMTD-1	11	HMTD-2	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
HMTD-3	HMTD-3	12	HMTD-1	11	HMTD-2	10	TATP-4	9	Control	8	TATP-6	7	TATP-9	6
Control	Control	12	TATP-9	11	TATP-4	10	TATP-6	9	TATP-7	8	TATP-3	7	HMTD-2	6
Control	Control	12	TATP-9	11	TATP-4	10	TATP-6	9	TATP-7	8	HMTD-2	7	TATP-3	6
Control	Control	12	TATP-9	11	TATP-6	10	TATP-4	9	TATP-7	8	TATP-3	7	HMTD-2	6
Control	Control	12	TATP-9	11	TATP-4	10	TATP-6	9	TATP-7	8	TATP-3	7	HMTD-2	6
Control	Control	12	TATP-9	11	TATP-6	10	TATP-4	9	TATP-7	8	HMTD-2	7	HMTD-3	6

Rank 8 Name	Rank 8 Vote	Rank 9 Name	Rank 9 Vote	Rank 10 Name	Rank 10 Vote	Rank 11 Name	Rank 11 Vote	Rank 12 Name	Rank 12 Vote	Rank 13 Name	Rank 13 Vote
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-8	5	TATP-9	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-8	5	TATP-9	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-8	5	TATP-9	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-8	5	TATP-9	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-8	5	TATP-9	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-2	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-2	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-3	5	HMTD-3	4	TATP-8	3	HMTD-1	2	TATP-1	1	TATP-2	0
HMTD-2	5	HMTD-3	4	TATP-8	3	TATP-1	2	HMTD-1	1	TATP-2	0
TATP-8	5	TATP-1	4	HMTD-2	3	TATP-2	2	HMTD-3	1	HMTD-1	0
HMTD-2	5	HMTD-3	4	TATP-8	3	HMTD-1	2	TATP-1	1	TATP-2	0
TATP-8	5	HMTD-2	4	HMTD-3	3	TATP-1	2	HMTD-1	1	TATP-2	0
TATP-3	5	TATP-1	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-3	5	TATP-1	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-3	5	TATP-1	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-3	5	TATP-1	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-3	5	TATP-1	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	Control	4	TATP-2	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-8	4	TATP-2	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-8	5	TATP-1	4	HMTD-2	3	HMTD-3	2	TATP-2	1	HMTD-1	0
TATP-8	5	TATP-1	4	TATP-2	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-8	4	TATP-2	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-2	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
Control	5	TATP-2	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-5	5	TATP-2	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
Control	5	TATP-2	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-2	5	Control	4	TATP-8	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-3	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-3	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-3	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-3	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	TATP-3	4	Control	3	HMTD-2	2	HMTD-3	1	HMTD-1	0
TATP-1	5	HMTD-2	4	TATP-8	3	HMTD-3	2	HMTD-1	1	TATP-2	0
TATP-1	5	HMTD-2	4	TATP-8	3	HMTD-3	2	TATP-2	1	HMTD-1	0
TATP-1	5	HMTD-2	4	HMTD-3	3	TATP-8	2	HMTD-1	1	TATP-2	0
TATP-1	5	HMTD-2	4	TATP-8	3	HMTD-3	2	HMTD-1	1	TATP-2	0
TATP-1	5	HMTD-2	4	TATP-8	3	HMTD-3	2	HMTD-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-5	5	TATP-7	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
TATP-7	5	TATP-5	4	TATP-8	3	TATP-3	2	TATP-1	1	TATP-2	0
HMTD-3	5	TATP-1	4	HMTD-1	3	TATP-5	2	TATP-8	1	TATP-2	0
HMTD-3	5	HMTD-1	4	TATP-1	3	TATP-5	2	TATP-8	1	TATP-2	0
HMTD-3	5	TATP-1	4	HMTD-1	3	TATP-5	2	TATP-8	1	TATP-2	0
TATP-1	5	HMTD-3	4	TATP-5	3	HMTD-1	2	TATP-2	1	TATP-8	0
TATP-3	5	HMTD-1	4	TATP-5	3	TATP-1	2	TATP-8	1	TATP-2	0