

## Comparison of Origin and OriginPro

OriginPro provides all of the features of Origin, plus additional analysis tools and capabilities. The following tables provide comparisons between Origin and OriginPro in such areas as curve fitting, peak analysis, statistics, signal analysis, and image handling.\*

Graphing		Origin	Originpro
	Connect Data Points to Centroid, Show Convex Hull or Confidence Ellipse for Scatter Plot		✓
Curve Fitting		Origin	Originpro
	Linear Regression	✓	✓
	Linear Fit with X Error		✓
	Confidence Ellipse for Linear Fit	✓	✓
LINEAR AND POLYNOMIAL	Polynomial Regression	✓	✓
FITTING	Multiple Linear Regression	✓	✓
	Partial Leverage Plots in Multiple Regression	✓	✓
	Residual Analysis	✓	✓
	Fitting Multiple Datasets	✓	✓
	Built-in Fitting Function and User- defined Fitting Function	✓	✓
	Parameter Initialization and Derived Parameter Definition	✓	✓
	Bounds and Constraints	✓	✓
	Weighted Fitting	✓	✓
	Fitting with Y Error	✓	✓
	Fitting with X and Y Errors (Orthogonal Regression)		✓
NONLINEAR FITTING	Global Fit with Parameter Sharing	✓	✓
	Global Fit with Parameter Sharing among Different Functions		<b>✓</b>
	Fitting Replica Data	✓	✓
	Residual Analysis	✓	✓
	Fitting with Implicit Functions (Orthogonal Distance Regression)		✓
	Fitting Comparison		✓
	Fit and Rank Multiple Models		✓
	Surface Fitting		<b>√</b>

Mathematics		Origin	OriginPro
SIMPLE MATHEMATICS OPERATIONS	Simple Mathematics Operations on or Between Datasets	✓	✓
	Set Cell, Column or Matrix Values by Using Mathematics Operations	✓	✓
	Normalization	✓	✓
	1D Interpolation and Extrapolation	✓	✓
	Interpolation and Extrapolation of Y From X	✓	<b>√</b>
INTERPOLATION AND	Trace Interpolation on XY Data	✓	✓
EXTRAPOLATION	Trace Interpolation on XYZ Data	✓	✓
	2D Interpolation and Extrapolation	✓	<b>√</b>
	3D Interpolation	✓	✓
	Numerical Differentiation	✓	✓
DIFFERENTIATION AND INTEGRATION	1D Numerical Integration	✓	✓
	2D Volume Integration		✓
	Polygon Area	✓	✓
AREA CALCULATION	XYZ Surface Area		✓
	Matrix Surface Area		✓
OTHERS	Average Multiple Curves	✓	<b>√</b>
	Inverse of a Matrix	<b>√</b>	<b>√</b>

\*To view the complete list of comparison tables go to: originlab.com/ProductComparison



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Statistics		Origin	OriginPro
	Basic Descriptive Statistics	<b>√</b>	<b>√</b>
	1D and 2D Frequency Counts	<b>√</b>	<b>√</b>
	Correlation Coefficient		<b>√</b>
	Partial Correlation Coefficient		✓
	Cross Tabulation		✓
DESCRIPTIVE	Discrete Frequency	✓	✓
STATISTICS	Distribution Fit		✓
	Normality Test (Shaprio-Wilk, Lilliefors, Kolmogorov-Smirnov, Anderson-Darling, D'Agostino-K Squared, Chen-Shapro)	<b>√</b>	<b>√</b>
	Statistics Charts: Histogram, Box Chart, Scatter Matrix, QC Chart, Probability Plot, Q-Q Plot, and Pareto Chart	<b>√</b>	<b>√</b>
	Grubbs Test and Q-test to Detect Outliers	✓	✓
	One Sample and Two-Sample t-Test, Pair-Sample t-Test	<b>√</b>	<b>✓</b>
HYPOTHESIS	Two Sample and Paired-Sample t-Test on Rows		<b>√</b>
TESTING	One Sample and Two Sample Hypothesis Tests for Variance		✓
	One and Two-Proportion Test		<b>√</b>
	One Way ANOVA, Two Way ANOVA	<b>√</b>	<b>√</b>
	Three Way ANOVA		✓
ANALYSIS OF VARIANCE	ANOVA: Mean Comparison (Tukey, Bonferroni , Scheffe, Dunn-Sidak, Fisher LSD, Holm-Bonferroni, Holm-Sidak)	✓	✓
	One Way and Two Way Repeated Measure ANOVA		<b>√</b>

Statistics (con't)		Origin	OriginPro
	Sign Test		✓
	Wilcoxon Test for One Sample and Paired Sample		✓
	Two Sample Kolmogorov-Smirnov Test		<b>√</b>
NONPARA- METRIC TESTS	Mann-Whitney Test		<b>√</b>
	Kruskal-Wallis ANOVA		✓
	Mood's Median Test		✓
	Friedman ANOVA		✓
	Principal Component Analysis		✓
	Cluster Analysis		<b>√</b>
MULTIVARIATE ANALYSIS	Discrimininant Analysis		<b>√</b>
	Canonical Discriminant Analysis		<b>√</b>
	Partial Least Squares		✓
	Kaplan-Meier Estimator		✓
SURVIVAL ANAIYSIS	Test Equality of Survival Functions (Log-Rank, Breslow and Tarone-Ware)		✓
71111121313	Cox Proportional Hazard Model		<b>✓</b>
	Weibull Fit		✓
POWER AND Sample Size	One, Two and Paired-Sample t-Test, One Way ANOVA, One and Two-Proportion Test, One and Two -Variance Test		<b>√</b>
ROC CURVE	ROC Curve		<b>√</b>

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Peak Analysis		Origin	OriginPro
	Baseline Detection	✓	✓
	Baseline Subtraction	✓	✓
	Peak Finding	✓	<b>√</b>
	Peak Integration	✓	<b>√</b>
PEAK ANALYSIS	Peak Fitting		<b>√</b>
	Fit Baseline with Peaks		✓
	Fit Individual Peaks with Different Fitting Functions		✓
	Batch Peak Analysis		✓
Gadget		Origin	OriginPro
Gadget	Surface Integration Gadget	Origin	OriginPro ✓
Gadget	Surface Integration Gadget Global Vertical Cursor Gadget Across Graphs	Origin ✓	OriginPro  ✓
Gadget	Global Vertical Cursor		OriginPro  ✓  ✓
Gadget	Global Vertical Cursor Gadget Across Graphs		OriginPro  ✓  ✓  ✓
Gadget	Global Vertical Cursor Gadget Across Graphs Intersect Gadget		OriginPro  ✓  ✓  ✓  ✓
GADGETS	Global Vertical Cursor Gadget Across Graphs Intersect Gadget Sigmoidal Fit Gadget		OriginPro  ✓  ✓  ✓  ✓  ✓
	Global Vertical Cursor Gadget Across Graphs  Intersect Gadget  Sigmoidal Fit Gadget  Cluster Gadget	✓ ✓	OriginPro  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓
	Global Vertical Cursor Gadget Across Graphs  Intersect Gadget  Sigmoidal Fit Gadget  Cluster Gadget  Quick Peaks Gadget	✓ ✓	OriginPro  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓
	Global Vertical Cursor Gadget Across Graphs  Intersect Gadget  Sigmoidal Fit Gadget  Cluster Gadget  Quick Peaks Gadget  Differentiate and Interpolate Gadget	✓ ✓ ✓ ✓ ✓ ✓ ✓	OriginPro

Signal Analysis		Origin	OriginPro
SMOOTHING AND FILTERING	Smoothing using Savitzky- Golay Filter, Adjacent Averaging, FFT Filter, and Percentile Filter	<b>√</b>	<b>√</b>
	FFT Filters: Low Pass, Low Pass Parabolic, High Pass, Band Pass, Band Block, and Threshold	<b>√</b>	✓
	IIR Filter Design		✓
	FFT with Basic Options	✓	✓
FAST FOURIER TRANSFORM (FFT)	2D FFT and 2D FFT Basic Filtering		✓
	Short-Time Fourier Transform (STFT)		<b>√</b>
	Discrete Wavelet Transform (DWT) and Inverse Discrete Wavelet Transform (IDWT)		<b>√</b>
	Wavelet Smoothing		✓
WAVELET ANALYSIS	Wavelet Denoising		✓
	Continuous Wavelet Transform (CWT)		✓
	Evaluation of Continuous Wavelet Function		<b>√</b>
	Convolution and Deconvolution	✓	✓
	Coherence		✓
	1D Correlation	✓	✓
OTHERS	2D Correlation		✓
	Hilbert Transform		<b>√</b>
	Signal Envelope		✓
	Signal Decimation		✓
	Rise and Fall Time Analysis		✓

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0		total
	51	with
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APPS		Origin	OriginPro
	Pulse Fit		✓
	Redlich-Kister Polynomial Fit		✓
	Rank Models by Fit Reports		✓
	Linear Regression with Marginal Distribution		✓
	Neural Network Regression		✓
	Quantile Regression		✓
	Fit ODE		✓
	Global Fit with Multiple Functions		✓
	3D Smoother		✓
	Rank Models		<b>✓</b>
CURVE FITTING	Polynomial Surface Fit		✓
CONTENTION	Sequential Fit		✓
	Piecewise Fit		✓
	Enzyme Kinetics		✓
	General Linear Regression		✓
	Composite Spectrum Regression		✓
	Fit Adsorption Isotherm		✓
	Find a Fitting Function	<b>√</b>	✓
	2D Smoother	✓	✓
	Simple Fit	✓	✓
	Compare Datasets	✓	✓
	Compare Linear Fit Parameters and Datasets	<b>√</b>	✓
	Tangential Baseline		✓
	X-Ray Diffraction Analysis		✓
	2D Peak Analysis		✓
PEAK ANALYSIS	Gel Molecular Weight Analyzer		✓
	Global Peak Fit		✓
	Peak Deconvolution		✓
	Align Peaks	✓	<b>√</b>

APPS (con't)		Origin	OriginPro
	Propagation of Error		✓
	Matrix Analysis		✓
	Optimization Solver		<b>√</b>
	Apparent Integraion		<b>√</b>
	Equations Solver		<b>√</b>
MATHEMATICS	Concave Hull		<b>✓</b>
MATHEMATICS	Popular Constants	<b>√</b>	<b>✓</b>
	Curvature Radius	<b>√</b>	<b>✓</b>
	Tangent	<b>√</b>	✓
	Tafel Extrapolation	<b>√</b>	<b>✓</b>
	Distance Between Two Points	<b>√</b>	✓
	Level Crossing	<b>√</b>	<b>✓</b>
	Zoom FFT		<b>✓</b>
	Empirical Mode Decomposition		<b>✓</b>
	Modified Short-Time Fourier Transform		<b>✓</b>
	Direct Linear Transformation		<b>✓</b>
	Independent Component Analysis		<b>✓</b>
SIGNAL PROCESSING	Dynamic Time Warping		<b>✓</b>
	Simple pCLAMP Analyzer		✓
	Time-Frequency Analysis		✓
	Fourier Self-Deconvolution		✓
	FFT Examiner		<b>✓</b>
	White Noise	<b>√</b>	<b>✓</b>

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 $\frac{2}{5}$  5 total

Bootstrap Sampling  Effect Size for ANOVA  Steel-Dwass Test  Radiometric Geochronology Anolysis  Advanced Time Series Analysis  Welch ANOVA  Overlap of Empirical Distributions  Structural Equation Modeling  Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA  Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multicilmensional Scaling  2D Correlation Spechoscopy Analysis  Change Point Analysis  Change Point Analysis  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy Advanced Principal Component Analysis  Posthoc Analysis for Nonparametric Tests Logistic Regression  Veryonary	APPS (con't)		Origin	OriginPro
Steel-Dwass Test Radiometric Geochronology Analysis Advanced Time Series Analysis  Welch ANOVA Overlap of Empirical Distributions Structural Equation Modeling Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA Probit Analysis ANOVA from Summary Data Optimal Cluster Number 1D Statistical Parametric Mapping Detrended Correspondence Analysis Standard Curve Analysis Linear Mixed Effects Model SVM Classification Canonical Correlation Analysis Nonmetric Multidimensional Scaling 2D Correlation Spectroscopy Analysis Change Point Analysis Design of Experiments Gaussian Mixture Models Factor Analysis Simple Time Series Analysis Posshoc Analysis for Nonparametric Tests Logistic Regression Principal Component Analysis for Nonparametric Tests Logistic Regression NetCDF Data Analysis		Bootstrap Sampling		✓
Radiometric Geochronology Analysis  Advanced Time Series Analysis  Welch ANOVA  Overlap of Empirical Distributions  Structural Equation Modeling  Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA  Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Jesign of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy Advanced Principal Component Analysis  Posthoc Analysis for Nonparametric Tests  Logistic Regression  Vercept Analysis  Vercept A		Effect Size for ANOVA		✓
Analysis Advanced Time Series Analysis  Welch ANOVA  Overlap of Empirical Distributions  Structural Equation Modeling  Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA  Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  V  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy Advanced Principal Component Analysis Post-hoc Analysis for Nonparametric Tests Logistic Regression  V  NetCDF Data Analysis  Mann-Kendall Test		Steel-Dwass Test		✓
Welch ANOVA Overlap of Empirical Distributions  Structural Equation Modeling Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA Probit Analysis  ANOVA from Summary Data Optimal Cluster Number  1 D Statistical Parametric Mapping Detrended Correspondence Analysis Standard Curve Analysis Linear Mixed Effects Model SVM Classification Canonical Correlation Analysis Nonmetric Multidimensional Scaling 2D Correlation Spectroscopy Analysis Change Point Analysis  Change Point Analysis  Simple Time Series Analysis  Logistic Regression Principal Component Analysis for Spectroscopy Advanced Principal Component Analysis Posthoc Analysis for Nonparametric Tests Logistic Regression NetCDF Data Analysis  Mann-Kendall Test		Radiometric Geochronology Analysis		✓
Overlap of Empirical Distributions  Structural Equation Modeling  Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA  Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Posthoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Advanced Time Series Analysis		✓
Structural Equation Modeling  Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA  Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Welch ANOVA		✓
Drug Dissolution Analysis  Surface Roughness Parameters  MANOVA  Probit Analysis  ANOWA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Overlap of Empirical Distributions		✓
Surface Roughness Parameters  MANOVA  Probit Analysis  ANOWA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Structural Equation Modeling		✓
MANOVA Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Drug Dissolution Analysis		✓
Probit Analysis  ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Surface Roughness Parameters		✓
ANOVA from Summary Data  Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		MANOVA		✓
Optimal Cluster Number  1 D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis Fospectroscopy  Advanced Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Probit Analysis		✓
I D Statistical Parametric Mapping  Detrended Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Posthoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		ANOVA from Summary Data		✓
Parametric Mapping Detrended Correspondence Analysis Standard Curve Analysis Linear Mixed Effects Model SVM Classification Canonical Correlation Analysis Nonmetric Multidimensional Scaling 2D Correlation Spectroscopy Analysis Change Point Analysis Design of Experiments Gaussian Mixture Models Factor Analysis Simple Time Series Analysis Logistic Regression Principal Component Analysis for Spectroscopy Advanced Principal Component Analysis Post-hoc Analysis for Nonparametric Tests Logistic Regression NetCDF Data Analysis  Mann-Kendall Test		Optimal Cluster Number		✓
STATISTICS  Correspondence Analysis  Standard Curve Analysis  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test				<b>√</b>
STATISTICS  Linear Mixed Effects Model  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  Veractor  Veractor  Veractor  Volume Test  Veractor				<b>√</b>
STATISTICS  SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Standard Curve Analysis		✓
SVM Classification  Canonical Correlation Analysis  Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  V  NetCDF Data Analysis  V  Canonical Correlation Analysis  V  Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  V  Mann-Kendall Test	CTATICTICS	Linear Mixed Effects Model		✓
Nonmetric Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  V  NetCDF Data Analysis  Mann-Kendall Test	SIAIISIICS	SVM Classification		✓
Multidimensional Scaling  2D Correlation Spectroscopy Analysis  Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  V  NetCDF Data Analysis  Mann-Kendall Test		Canonical Correlation Analysis		✓
Spectroscopy Analysis Change Point Analysis  Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  V  NetCDF Data Analysis  Mann-Kendall Test				✓
Design of Experiments  Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  V  NetCDF Data Analysis		2D Correlation Spectroscopy Analysis		✓
Gaussian Mixture Models  Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Change Point Analysis		✓
Factor Analysis  Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Design of Experiments		✓
Simple Time Series Analysis  Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Gaussian Mixture Models		✓
Logistic Regression  Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Factor Analysis		<b>√</b>
Principal Component Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Simple Time Series Analysis		<b>√</b>
Analysis for Spectroscopy  Advanced Principal Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test		Logistic Regression		<b>√</b>
Component Analysis  Post-hoc Analysis for Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  Mann-Kendall Test				✓
Nonparametric Tests  Logistic Regression  NetCDF Data Analysis  ✓  Mann-Kendall Test				✓
NetCDF Data Analysis   ✓  Mann-Kendall Test  ✓				✓
Mann-Kendall Test ✓		Logistic Regression		✓
		NetCDF Data Analysis		✓
Hurst Exponent ✓ ✓		Mann-Kendall Test		<b>√</b>
		Hurst Exponent	✓	✓

APPS (con't)		Origin	OriginPro
GRAPH CUSTOMIZATION	Soil/Rock Classification Diagrams	✓	✓
	Color Editor	✓	<b>√</b>
	LaTeX	✓	✓
	Google Map Import	✓	<b>√</b>
	Maps Online	✓	✓
	Import Shapefile	✓	✓
	Colormap for Map Data	✓	✓
	Layer Stack Manager	✓	✓
	Video Data Explorer		✓
	Distributed Batch Processing		✓
	OPJ Packer		<b>√</b>
	Project Manager	✓	✓
DATA PROCESSING	Periodic Report	<b>√</b>	✓
	Hysteresis	<b>√</b>	<b>√</b>
	OPJ Packer	✓	✓
	Toolbar Maker	✓	✓
	Data Slicer	✓	<b>√</b>
	OPJ Searcher	✓	✓

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 $\frac{2}{5}$  5 total

To Pi	Gardner-Altman Plot  Dissional Angle Wheel Plot  iper Diagram  Marginal Abatement Cost Curve  Manhattan Plot for GWAS Genome-Wide Association tudies)  mage Stack Profile  Heat Map with Dendrogram		✓ ✓ ✓
Pi  N  (IC	iper Diagram  Marginal Abatement Cost Curve  Manhattan Plot for GWAS Genome-Wide Association tudies)  nage Stack Profile		✓ ✓ ✓
N (C S	Narginal Abatement Cost Curve  Nanhattan Plot for GWAS  Genome-Wide Association tudies)  nage Stack Profile		√ √
N (C S	Aanhattan Plot for GWAS Genome-Wide Association tudies) nage Stack Profile		✓
(C Si	Genome-Wide Association tudies) nage Stack Profile		✓
In			
	leat Man with Dendroaram		✓
Н	icai map wiiii belialogiaiii		✓
3	D Antenna Radiation Pattern		✓
C	Correlation Plot		✓
Po D	olar Heatmap with endrogram		✓
Po	olar Contour Profile	✓	✓
٨	Neans Plot	✓	✓
Re	ectangle and Ellipse Profile	✓	✓
C	Common Bar Width	✓	✓
GRAPHING	Color Spectrum Plot	✓	✓
Н	lansen Solubility Parameter Plot	✓	✓
T∈	ernary Contour Profile	✓	✓
To	aylor Diagram	✓	✓
3	D Polar Strain Map	✓	✓
Z	oomed Inset Plus	✓	✓
3	D Wind Rose	✓	✓
ls	osurface	✓	✓
G	Graph Maker	✓	✓
В	atch Plotting	✓	✓
C	Chromaticity Diagram	✓	✓
Po	aired Comparison Plot	✓	✓
K Po	ernel Density for olar and Ternary	✓	<b>√</b>
3	D Wall Profile	✓	✓
Pl	lot Sub Matrix	✓	✓
Z	oomed Inset	✓	✓

APPS (con't)		Origin	OriginPro
	Import Chem Data		✓
	Stiegele MDF Connector	✓	✓
	Shapefile Connector	✓	✓
	N42 Connector	✓	<b>✓</b>
	GeoTIFF Export	✓	✓
	Import PDF Tables	✓	✓
	TDMS Connector	✓	✓
	Yokogawa WDF Connector	✓	✓
	MDF4 Connector	✓	✓
	Biologic Connector	✓	✓
IMPORT AND EXPORT	MetroPro Connector	✓	✓
	Minitab Connector	<b>√</b>	✓
	NetCDF Connector	<b>√</b>	✓
	Word Connector	✓	✓
	Import NMR Data	✓	✓
	LeCroy Connector	✓	✓
	Import SAS XPT Files	✓	✓
	HTML Report Assistant	✓	✓
	Graph Publisher	<b>√</b>	✓
	Import LSM	<b>√</b>	✓
	Movie Creator	<b>√</b>	✓
	HDF5 Browser	<b>✓</b>	✓
	Import Tektronix WFM Files	✓	✓
	Agilent MS Reader	✓	✓
	Export Multiple Worksheets	✓	✓
	Send Graphs to Powerpoint	<b>✓</b>	✓
	Send Graphs to Word	✓	<b>√</b>

\*To view the complete list of comparison tables go to: originlab.com/ProductComparison

