



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
General Fax: 304-558-6026
Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header @ 5

List View

General Information | Contact | Default Values | Discount | Document Information

Procurement Folder: 265333

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: AB SCIEX LLC

Alias/DBA:

Total Bid: \$359,296.62

Response Date:

Response Time:

SO Doc Code: CRFQ

SO Dept: 1400

SO Doc ID: AGR1700000005

Published Date: 11/9/16

Close Date: 11/17/16

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 5

Total of All Attachments: 5



Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder : 265333
Solicitation Description : Addendum # 1 - Triple Quad LC/MS/MS
Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2016-11-17 13:30:00	SR 1400 ESR1116160000002258	1

VENDOR
000000166228 AB SCIEX LLC

Solicitation Number: CRFQ 1400 AGR1700000005

Total Bid : \$359,296.62 **Response Date:** 2016-11-17 **Response Time:** 00:20:46

Comments:
 Dear Ms. Harper:
 Please see the attached cover letter for a description of how our bid is structured. Additional uploaded documents include the executed signature pages incorporated into and associated with the RFQ, our sales quotations to support the pricing entered online, and technical product literature. Thank you for your review and consideration of our offer.
 Sincerely,
 Phillip Balough
 Sr. Specialist, Bids and Contracts
 AB Sciex LLC

FOR INFORMATION CONTACT THE BUYER
 Linda Harper
 (304) 558-0468
 linda.b.harper@wv.gov

Signature on File	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	LCMSMS, Workstation, software, printer	1.00000	EA	\$346,182.940000	\$346,182.94

Comm Code	Manufacturer	Specification	Model #
41100000			

Extended Description : LCMSMS, Workstation, software, printer per specification 3.1.1 & 3.1.2

Comments: Delivery within 15-30 days ARO

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Shipping Charges and inside delivery	1.00000	EA	\$407.280000	\$407.28

Comm Code	Manufacturer	Specification	Model #
78121603			

Extended Description : Shipping Charges and inside deliver per section 3.1.3

Comments: Delivery within 15-30 days

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Installation/validation	1.00000	EA	\$8,306.400000	\$8,306.40

Comm Code	Manufacturer	Specification	Model #
73171605			

Extended Description : Installation/validation per section 3.1.3

Comments: Typically performed within 15 days of delivery, around time of installation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Training/Warranty	1.00000	EA	\$4,400.000000	\$4,400.00

Comm Code	Manufacturer	Specification	Model #
73171605			

Extended Description : Training/Warranty per section 3.1.3

Comments: Training is provided according to a schedule mutually agreed to by the parties.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Service	1.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
73171605			

Extended Description : Service per section 3.1.3

Comments: 12-month service/warranty coverage begins on the earlier of (a) 90 days after the equipment is shipped; or (b) the date of its installation



1201 Radio Drive
Redwood City, CA 94065 USA
T(877) 740-2129 F(800) 343-1346
www.sciex.com

November 16, 2016

Linda Harper
State of West Virginia
Purchasing Division
2019 Washington St. E
Charleston, WV 25305

RE: STATE OF WEST VIRGINIA CRFQ AGR1700000005, "Triple Quad LC/MS/MS"; SCIEX Quote Nos. 11013878 and 11013881

Dear Ms. Harper:

AB SCIEX LLC is pleased to respond to the State of West Virginia's above-referenced Request for Quotation with the attached materials, which are based on our Quote No. 11013878 for a SCIEX Triple Quad 6500 System, and our Quote No. 11013881 for a SCIEX Triple Quad 4500 System.

The Triple Quad 6500 System meets all of the RFQ's technical specifications, and is therefore the primary instrument we are offering to the State, and is the instrument for which we have detailed the pricing on the WV Oasis website's pricing matrix. However, we have also included a pricing sheet for the Triple Quad 4500 System in the format specified on the Pricing Page of the RFQ.

The reason we are offering the Triple Quad 4500 System as an alternative is that the RFQ has outlined a specific method that requires a scan speed of 30,000 da/sec and you may be researching whether faster scanning speeds improve chromatographic resolution. In our opinion and based on our expertise, chromatographic resolution is independent of scan rate. The faster the scan rate, the less sensitivity is obtained because less time is being spent on the mass of interest and therefore the chromatographic peaks can be a bit smaller. This actually defeats the purpose of UHPLC, which is designed to sharpen and increase the height of the chromatographic peak! It is the opinion of Sciex that the lower-priced 4500 LC/MS will meet all your method needs.

In addition, we are proposing that the State consider the following modifications and additions to the terms and conditions set forth in the RFQ, to the maximum extent that such modifications and additions are allowable under the laws of the State of West Virginia and otherwise acceptable to the State. Please be aware that these proposed alternate terms are intended to be negotiable, and are not a fixed condition of our offer—we are also amenable to other solutions:

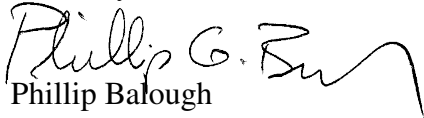


In Section 36 of the RFQ, replace item (2) with “Any claims or losses resulting to any person or entity injured or damaged by **the negligence or deficient services** of Vendor ...”.

Add at the end of Section 36, “To the maximum extent allowable by law, neither party shall be liable for any secondary, incidental or consequential damages arising out of the subject matter or performance of this Agreement; however, no limitation of liability shall apply, to the extent that such limitation is contrary to applicable law, including the laws of the State of West Virginia.”

We thank you for your review and consideration of our offer. If you have any questions regarding our products or pricing, please contact our Sales Representative, David Brokaw, at david.brokaw@sciex.com. For any administrative or contractual issues, please feel free to contact me at 650-631-2110 or phil.balough@sciex.com.

Sincerely,


Phillip Balough
Sr. Specialist, Bids and Contracts
AB SCIEX, LLC

QUOTATION

AB SCIEX LLC
1201 Radio Rd
REDWOOD CITY, CA 94065-1217
United States

Tele : +1 (877) 740-2129 opt 1
 Fax : +1 (650) 631-4803
 Email : sales.americas@sciex.com

Quote Number	11013878
Quote Date	16-NOV-16
Valid To	15-DEC-16
Freight Terms	SX - Prepaid and Add
Free On Board	Factory
Payment Terms	Net 30 days
Taxable	No
Sales Representative	David Brokaw
Administrator	Jennilee Del Mundo

To: US-461980

Procurement Officer 304-558-2221
 State of West Virginia
 313 Gus R Douglas Ln
 CHARLESTON, WV 25312
 United States

Tele :
 Fax :
 Email :

Item No	Product	Description	Quantity	Unit List Price	Unit Net Price	Total Extended Price
1.1	4465954	SCIEX TRIPLE QUAD 6500 SYSTEM	1	513,970.00	272,404.10	272,404.10
			Discount	47%		
		<p>INCLUDES:</p> <p>SCIEX Triple Quad 6500 LC/MS/MS System Enhanced high performance triple quadrupole LC/MS/MS mass spectrometer equipped with IonDrive(TM) technology and with a mass range of m/z 5 to 2000.</p> <p>IonDrive Turbo V Source</p> <p>TurbolonSpray Probe Heated IonSpray probe for use in the IonDrive Turbo V Source. Accepts flow rates from 5 to 3000 u/min without splitting.</p> <p>APCI Probe Atmospheric Pressure Chemical Ionization probe for use in IonDrive Turbo V Source. Useful for the ionization of small polar and neutral molecules. Accepts flow rates of 50 to 3000 ul/min.</p> <p>Analyst software for control, data acquisition, and data processing on SCIEX QqQ and QTRAP® mass spectrometers. Includes DVD, documentation, one Processing Workstation License and one Acquisition Workstation License.</p> <p>MultiQuant V.3.0.2 with SMRM Software License</p> <p>Dell Computer and Monitor</p> <p>LIMITED WARRANTY Standard parts and labour warranty for one year starting from the completion of instrument commissioning. Includes our StatusScope Remote Monitoring Service and one no-charge Preventative Maintenance (PM) during the one-year warranty period.</p>				
2.1	4376878	FG, SYNERGI 4U FUSION RP80A 50X2	1	0.00	0.00	0.00
3.1	4376887	FG, TRIAZINE STANDARD MIXTURE	1	0.00	0.00	0.00
		<p>System Suitability Test Mixture for Cliiquid Food Testing package, Triazine Pesticides Standard Mix 100 ug/mL each component in methanol, ampoule of 1 mL.</p>				
4.1	4406127	FG, MS CHEMICAL KIT1 LOW-HIGH CONC PPGS	1	0.00	0.00	0.00
		MS Chemical Kit 1, Low-High Conc. PPGs.				

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Item No	Product	Description	Quantity	Unit List Price	Unit Net Price	Total Extended Price
5.1	5036666	Configured ExionLC AD System	1	71,128.18	53,346.13	53,346.13
				Discount	25%	
		Component based high performance UHPLC system. Includes the following ExionLC components: ExionLC Controller, ExionLC Degasser, ExionLC Tray, 2 x ExionLC AD Pumps, ExionLC AD Autosampler, ExionLC AD Column Oven. The package includes 5 solvent bottles, 5 vented caps and solvent lines, Auxilliary I/O synch cable and a 20µL binary micro mixer module. This is the recommend configuration for customers who are looking highest performance UHPLC 1300 bar system with the lowest carryover. The ExionLC AD system is currently supported in Analyst 1.6.3 or higher.				
6.1	4376887	FG,TRIAZINE STANDARD MIXTURE	1	0.00	0.00	0.00
		System Suitability Test Mixture for Cliquid Food Testing package, Triazine Pesticides Standard Mix 100 ug/mL each component in methanol, ampoule of 1 mL.				
7.1	5036657	EXIONLC PDA DETECTOR	1	18,360.00	13,770.00	13,770.00
				Discount	25%	
		Multiwavelength UV VIS PDA detector. Wavelength range from 190 to 700nm.				
8.1	5036647	EXIONLC SOLVENT SELECT VALVE 3 CHANNEL	1	2,249.10	1,686.82	1,686.82
				Discount	25%	
		Flow Controller Valve allows 2 solvent selection from up to 3 pumping units. Controlled directly by either ExionLC AC, AD or HPLC pump				
9.1	4466122	18K PSI COL SWITCHING VALVE,2 POS 6 PORT	1	3,935.93	3,070.03	3,070.03
				Discount	22%	
		2 position 6 port valve, 18,000psi pressure max. Includes valve, PCB, and tubing/fittings kit. Requires oven mounting kit (220-91522-02), no standalone operation.				
10.1	4463926	2 POSITION VALVE MOUNT KIT CTO-20/30A/C	1	258.79	201.86	201.86
				Discount	22%	
		Kit for mounting 2 Rheodyne 2 position (6 or 10 port) valves in a single CTO-20/30A/C.				
11.1	5043612	Fixed Price IQ/OQ - ExionLC AD	1	3,626.00	2,175.60	2,175.60
				Discount	40%	
12.1	4466010	Fixed Price IQ/OQ - 6500 TRIPLE QUAD	1	10,218.00	6,130.80	6,130.80
				Discount	40%	
13.1	TRNLP002	SCIEX University-- Success Plus	1	8,000.00	4,400.00	4,400.00
				Discount	45%	
		"This is a Personalized Learning Path that offers a Workflow Certification. It includes a unique blend of Self-paced eLearning, Instructor Led and Hands-on Training provided at the Customer Site. This follows the proven spaced learning approach to maximize learning retention. It is personalized by Primary Learner's Instrument, workflow and Learner Level. This program is currently offered on all Triple Quad and QTRAP LC-MS systems (RUO versions).				

QUOTATION

AB SCIEX LLC
1201 Radio Rd
REDWOOD CITY, CA 94065-1217
United States

Tele : +1 (877) 740-2129 opt 1
 Fax : +1 (650) 631-4803
 Email : sales.americas@sciex.com

Quote Number	11013878
Quote Date	16-NOV-16
Valid To	15-DEC-16
Freight Terms	SX - Prepaid and Add
Free On Board	Factory
Payment Terms	Net 30 days
Taxable	No
Sales Representative	David Brokaw
Administrator	Jennilee Del Mundo

Item No	Product	Description	Quantity	Unit List Price	Unit Net Price	Total Extended Price
		Current workflows covered include quantitation and screening for Clinical Research, Forensics, Food and Environmental testing. Current Learner Levels are Basic Operator and Method Developer. It includes the following: Introduction to LC-MS/MS Operation and Maintenance (TRNLP004) ~3 hrs. of Introductory eLearning ~ 5hrs of Instructor Led and Hands-on Training provided at the Customer Site by a Service Engineer FAQ web session by an Application Support Scientist ~4 hrs. of Software and workflow related eLearning 2 Days of Instructor Led and Hands-on Training provided at the Customer Site by an Applications Support Scientist Workflow Certification upon successful completion of Final Exam P.A.C.E. Continuing Education Credits for select courses Enrollment in Recommended Advanced eLearning Complimentary follow-up WebEx session with an Applications Support Scientist to ensure your success. Hands-On for 1 Primary Learner and up to 3 total learners for lecture, Self-paced eLearning and demonstration. Valid for 12 months from date of purchase. For the latest information regarding course details please visit http://sciex.com/education "				
14.1	4376887	FG, TRIAZINE STANDARD MIXTURE System Suitability Test Mixture for Cliquid Food Testing package, Triazine Pesticides Standard Mix 100 ug/mL each component in methanol, ampoule of 1 mL.	1	0.00	0.00	0.00
15.1	4376878	FG, SYNERGI 4U FUSION RP80A 50X2	1	0.00	0.00	0.00
16.1	5047079	KIT, LC EXION AD30 ESSENTIALS COMPLETE This kit includes the following parts: DIAPHRAGMS, SHIMADZU LC-30 IMPROVED FILTER, SST LINE FILTER FILTERS, SHMDZ SOCKET BAND SEALS, SHMDZ PLUNGER SEALS (Qty 2) A/S PLUNGER SEAL CHECK VALVE IN/OUT INJECTION NEEDLE NEEDLE SEAL HIGH PRESSURE VALVE ROTOR These parts are compatible with ExionLC-AD and Nexera X2 (30 series) systems.	1	1,990.00	1,393.00	1,393.00
			Discount	30%		
17.1	EXP-US1-1086	3663502 CDW HP COLOR LJ PRO M252DW PRINTER	1	311.00	311.00	311.00

Sub Total	358,889.34	USD
Estimated Shipping and Handling	4,047.28	USD

Quotation Total	362,936.62	USD

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Administrator	Jennilee Del Mundo

Sales tax will be included, if applicable, at time of invoice.

Please note that we are supplying the product(s) denoted above by the part number EXP at the request of the buyer. As the EXP part numbers are not routinely supplied by our company, the product(s) have not been validated for use with Sciex products.

Please read carefully:

~~This quotation, and Company's TERMS AND CONDITIONS OF SALE FOR PRODUCTS AND/OR SERVICES, as applicable, (the "TERMS") set forth the terms pursuant to which the Company would sell the product(s) or service(s) listed in this quotation, unless any other valid agreement exists or is executed between you and Company with respect to these products or services. By issuing a purchase order or otherwise ordering or accepting product(s) or services, you expressly confirm that you intend to be bound by and agree to the terms of this quotation and the TERMS to the exclusion of all other terms not expressly agreed to in writing by an authorized representative of Company, and that the purchase and sale transaction between you and Company is subject to and will be governed by this quotation and the TERMS. The applicable TERMS*, which are incorporated by reference into this quotation and any resulting contract, can be found on Company's website at <http://www.sciex.com/legal-terms-and-conditions>.~~

~~Once on the page, click on the country identified on the top left hand corner of this quotation, and either the "products" or "services" link as applicable. Company products and services are covered by only those warranties set forth in its limited warranty statement* which can be found at <http://www.sciex.com/warranty> . Operating software and stand alone software is licensed and not sold. The terms of license are included in the End User License Agreement (EULA)* provided with the software, a copy of which can be found at <http://www.sciex.com/products/software> .*~~To obtain a copy of either the TERMS, limited warranty statement or EULA, or if you have any questions, please call Company's customer service department using the contact information supplied on the left hand corner of this quotation.

QUOTATION

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Taxable	No
Sales Representative	David Brokaw
Administrator	Jennilee Del Mundo

To: US-461980

Procurement Officer
 State of West Virginia
 Agriculture Department of Regulatory Protection Division
 313 Gus R Douglas Ln
 CHARLESTON, WV 25312
 United States

Tele :
 Fax :
 Email : 304-558-2221

Item No	Product	Description	Quantity	Unit List Price	Unit Net Price	Total Extended Price
1.1	4465878	<p>SCIEX TRIPLE QUAD 4500 SYSTEM</p> <p>INCLUDES:</p> <p>SCIEX Triple Quad 4500 LC/MS/MS System Enhanced high performance triple quadrupole LC/MS/MS mass spectrometer with mass range of m/z 5 to 2000.</p> <p>Turbo V Source</p> <p>TurboIonSpray Probe Heated IonSpray probe for use in the Turbo V Source. Accepts flow rates from 5 to 3000 ul/min without splitting.</p> <p>APCI Probe Atmospheric Pressure Chemical Ionization probe for use in Turbo V Source. Accepts flow rates of 50 to 3000 ul/min.</p> <p>Analyst software for control, data acquisition, and data processing on SCIEX QqQ and QTRAP® mass spectrometers. Includes DVD, documentation, one Processing Workstation License and one Acquisition Workstation License.</p> <p>MultiQuant V.3.0.2 with SMRM Software License</p> <p>Dell Computer and Monitor</p> <p>LIMITED WARRANTY Standard parts and labour warranty for one year starting from the completion of instrument commissioning. Includes our StatusScope Remote Monitoring Service and one no-charge Preventative Maintenance (PM) during the one-year warranty period.</p>	1	437,835.00	210,160.80	210,160.80
2.1	4376878	FG, SYNERGI 4U FUSION RP80A 50X2	1	0.00	0.00	0.00
3.1	4376887	<p>FG, TRIAZINE STANDARD MIXTURE</p> <p>System Suitability Test Mixture for Clilquid Food Testing package, Triazine Pesticides Standard Mix 100 ug/mL each component in methanol, ampoule of 1 mL.</p>	1	0.00	0.00	0.00
4.1	4406127	<p>FG, MS CHEMICAL KIT1 LOW-HIGH CONC PPGS</p> <p>MS Chemical Kit 1, Low-High Conc. PPGs.</p>	1	0.00	0.00	0.00
5.1	5036657	<p>EXIONLC PDA DETECTOR</p> <p>Multiwavelength UV VIS PDA detector. Wavelength range from 190 to 700nm.</p>	1	18,360.00	13,770.00	13,770.00

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Taxable	No
Sales Representative	David Brokaw
Administrator	Jennilee Del Mundo

Item No	Product	Description	Quantity	Unit List Price	Unit Net Price	Total Extended Price
6.1	5036647	EXIONLC SOLVENT SELECT VALVE 3 CHANNEL Flow Controller Valve allows 2 solvent selection from up to 3 pumping units. Controlled directly by either ExionLC AC, AD or HPLC pump	1	2,249.10	1,686.82	1,686.82
7.1	4466122	18K PSI COL SWITCHING VALVE,2 POS 6 PORT 2 position 6 port valve, 18,000psi pressure max. Includes valve, PCB, and tubing/fittings kit. Requires oven mounting kit (220-91522-02), no standalone operation.	1	3,935.93	3,070.03	3,070.03
8.1	4463926	2 POSITION VALVE MOUNT KIT CTO-20/30A/C Kit for mounting 2 Rheodyne 2 position (6 or 10 port) valves in a single CTO-20/30A/C.	1	258.79	201.86	201.86
9.1	5043612	Fixed Price IQ/OQ - ExionLC AD	1	3,626.00	2,175.60	2,175.60
10.1	4466008	Fixed Price IQ/OQ - 4500 TRIPLE QUAD	1	7,591.00	4,554.60	4,554.60
11.1	TRNLP002	SCIEX University-- Success Plus "This is a Personalized Learning Path that offers a Workflow Certification. It includes a unique blend of Self-paced eLearning, Instructor Led and Hands-on Training provided at the Customer Site. This follows the proven spaced learning approach to maximize learning retention. It is personalized by Primary Learner's Instrument, workflow and Learner Level. This program is currently offered on all Triple Quad and QTRAP LC-MS systems (RUO versions). Current workflows covered include quantitation and screening for Clinical Research, Forensics, Food and Environmental testing. Current Learner Levels are Basic Operator and Method Developer. It includes the following: Introduction to LC-MS/MS Operation and Maintenance (TRNLP004) ~3 hrs. of Introductory eLearning ~ 5hrs of Instructor Led and Hands-on Training provided at the Customer Site by a Service Engineer FAQ web session by an Application Support Scientist ~4 hrs. of Software and workflow related eLearning 2 Days of Instructor Led and Hands-on Training provided at the Customer Site by an Applications Support Scientist Workflow Certification upon successful completion of Final Exam P.A.C.E. Continuing Education Credits for select courses Enrollment in Recommended Advanced eLearning Complimentary follow-up WebEx session with an Applications Support Scientist to ensure your success. Hands-On for 1 Primary Learner and up to 3 total learners for lecture, Self-paced eLearning and demonstration. Valid for 12 months from date of purchase. For the latest information regarding course details please visit http://sciex.com/education "	1	8,000.00	4,400.00	4,400.00
12.1	4376887	FG, TRIAZINE STANDARD MIXTURE System Suitability Test Mixture for Cliquid Food Testing package, Triazine Pesticides Standard Mix 100 ug/mL each component in methanol, ampoule of 1 mL.	2	0.00	0.00	0.00
13.1	4376878	FG, SYNERGI 4U FUSION RP80A 50X2	1	0.00	0.00	0.00
14.1	5036666	Configured ExionLC AD System Component based high performance UHPLC system. Includes the following ExionLC components: ExionLC Controller, ExionLC Degasser, ExionLC Tray, 2 x ExionLC AD Pumps, ExionLC AD Autosampler, ExionLC AD Column Oven. The package	1	71,128.18	53,346.13	53,346.13

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Taxable	No
Sales Representative	David Brokaw
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Item No	Product	Description	Quantity	Unit List Price	Unit Net Price	Total Extended Price
		includes 5 solvent bottles, 5 vented caps and solvent lines, Auxilliary I/O synch cable and a 20µL binary micro mixer module. This is the recommend configuration for customers who are looking highest performance UHPLC 1300 bar system with the lowest carryover. The ExionLC AD system is currently supported in Analyst 1.6.3 or higher.				
15.1	5047079	KIT, LC EXION AD30 ESSENTIALS COMPLETE This kit includes the following parts: DIAPHRAGMS, SHIMADZU LC-30 IMPROVED FILTER, SST LINE FILTER FILTERS, SHMDZ SOCKET BAND SEALS, SHMDZ PLUNGER SEALS (Qty 2) A/S PLUNGER SEAL CHECK VALVE IN/OUT INJECTION NEEDLE NEEDLE SEAL HIGH PRESSURE VALVE ROTOR These parts are compatible with ExionLC-AD and Nexera X2 (30 series) systems.	1	1,990.00	1,492.50	1,492.50
16.1	EXP-US1-1 086	3663502 CDW HP COLOR LJ PRO M252DW PRINTER	1	311.00	311.00	311.00

Sub Total	295,169.34	USD
Estimated Shipping and Handling	3,498.76	USD

Quotation Total	298,668.10	USD

Sales tax will be included, if applicable, at time of invoice.

Please note that we are supplying the product(s) denoted above by the part number EXP at the request of the buyer. As the EXP part numbers are not routinely supplied by our company, the product(s) have not been validated for use with Sciex products.

Please read carefully:

~~This quotation, and Company's TERMS AND CONDITIONS OF SALE FOR PRODUCTS AND/OR SERVICES, as applicable, (the "TERMS") set forth the terms pursuant to which the Company would sell the product(s) or service(s) listed in this quotation, unless any other valid agreement exists or is executed between you and Company with respect to these products or services. By issuing a purchase order or otherwise ordering or accepting product(s) or services, you expressly confirm that you intend to be bound by and agree to the terms of this quotation and the TERMS to the exclusion of all other terms not expressly agreed to in writing by an authorized representative of Company, and that the purchase and sale transaction between you and Company is subject to and will be governed by this quotation and the TERMS. The applicable TERMS*, which are incorporated by reference into this quotation and any resulting contract, can be found on Company's website at <http://www.sciex.com/legal-terms-and-conditions>.~~

~~Once on the page, click on the country identified on the top left hand corner of this quotation, and either the "products" or "services" link as applicable. Company products and services are covered by only those warranties set forth in its limited warranty statement* which can be found at <http://www.sciex.com/warranty> . Operating software and stand alone software is licensed and not sold. The terms of license are included in the End User License Agreement (EULA)* provided with the software, a copy of which can be found at <http://www.sciex.com/products/software> . *To obtain a copy of either the TERMS, limited warranty statement or EULA, or if you have any questions, please call Company's customer service department using the contact information supplied on the left hand corner of this quotation.~~



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 01 – Agricultural

Proc Folder: 265333

Doc Description: Triple Quad LC/MS/MS

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-10-24	2016-11-17 13:30:00	CRFQ 1400 AGR1700000005	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

AB Sciex LLC
 1201 Radio Rd
 Redwood City, CA 94065

FOR INFORMATION CONTACT THE BUYER

Linda Harper
 (304) 558-0468
 linda.b.harper@wv.gov

Signature X

FEIN # 27-1082047

DATE 11/15/2016

All offers subject to all terms and conditions contained in this solicitation



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 01 - Agricultural

Proc Folder: 265333

Doc Description: Addendum # 1 - Triple Quad LC/MS/MS

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-11-09	2016-11-17 13:30:00	CRFQ 1400 AGR1700000005	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

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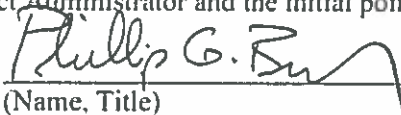
Signature X

FEIN # 27-1082047

DATE 11/15/2016

All offers subject to all terms and conditions contained in this solicitation

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.



Sr. Specialist, Bids and Contracts

(Name, Title)

Phillip Balough, Sr. Specialist, Bids and Contracts

(Printed Name and Title)

1201 Radio Rd, Redwood City, CA 94065

(Address)

650-631-2110 / 800-343-1346

(Phone Number) / (Fax Number)

phil.balough@sciex.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

AB Sciex LLC

(Company)



(Authorized Signature) (Representative Name, Title)

Freda Brinkley, Director, Sales Administration

(Printed Name and Title of Authorized Representative)

11/15/2016

(Date)

650-631-2648 / 800-343-1346

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: AB Sciex LLC

Authorized Signature: _____

Date: 11/15/2016

State of California

County of San Mateo, to-wit:

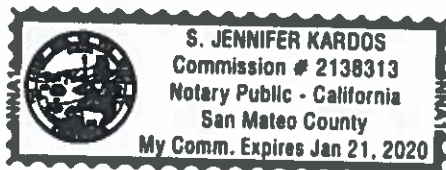
Taken, subscribed, and sworn to before me this 15th day of November, 2016.

My Commission expires January 21, 2020, 20 .


AFFIX SEAL HERE

NOTARY PUBLIC


S. Jennifer Kardos
Purchasing Affidavit (Revised 08/01/2015)



PRICING PAGE

Item No.	Description	Model No/Brand Name	Quantity	Unit Price	Extended Amount
3.1.1 & 3.1.2	LCMSMS, workstation, software, printer	Triple Quad 6500 System /SCIEX	1	\$346,182.94	\$346,182.94
3.1.3	Shipping charges and inside delivery	SCIEX	1	\$4,047.28	\$4,047.28
3.1.3	Installation/validation	IQ/OQ for Triple Quad 6500 and Exion LC AD / SCIEX	1	\$8,306.40	\$8,306.40
3.1.3	Training/warranty	SCIEX University -- Success Plus / SCIEX	1	\$4,400.00	\$4,400.00
3.1.3	Service	Included in price and description of LCMSMS / SCIEX	1		
	Failure to use this form may result in disqualification			GRAND TOTAL	\$362,936.62
	Bidder / Vendor Information				
Name:	AB Sciex LLC				
Address:	1201 Radio Rd.				
	Redwood City, CA 94065				
Phone:	877-740-2129				
Email Address:	bids@sciex.com				
Signature:					

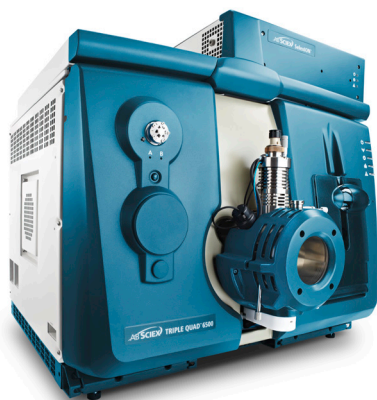
PRICING PAGE

Item No.	Description	Model No/Brand Name	Quantity	Unit Price	Extended Amount
3.1.1 & 3.1.2	LCMSMS, workstation, software, printer	Triple Quad 4500 System / SCIEX	1	\$284,039.14	\$284,039.14
3.1.3	Shipping charges and inside delivery	SCIEX	1	\$3,498.76	\$3,498.76
3.1.3	Installation/validation	Fixed Price IQ/OQ for Triple Quad 4500 and Exion LC AD / SCIEX	1	\$6,730.20	\$6,730.20
3.1.3	Training/warranty	SCIEX University -- Success Plus / SCIEX	1	\$4,400.00	\$4,400.00
3.1.3	Service	Included in LCMSMS Price and Description	1	incl. above	incl. above
	Failure to use this form may result in disqualification			GRAND TOTAL	\$298,668.10
Bidder / Vendor Information					
Name:	AB Sciex LLC				
Address:	1201 Radio Rd.				
	Redwood City, CA 94065				
Phone:	877-740-2129				
Email Address:	bids@sciex.com				
Signature:					



AB SCIEX Triple Quad™ 6500

System Specifications



The AB SCIEX Triple Quad™ 6500 System is a sensitive triple quadrupole mass spectrometer designed for LC/MS/MS analyses. Equipped with new multi-component IonDrive™ technology consisting of advancements in ion production, ion focusing and ion transmission, this instrument delivers improvements in sensitivity, robustness and dynamic range for demanding assays. The proven eQ™ electronics and Curved LINAC® collision cell provide support for fast chromatography applications with thousands of analytes. The optional SelexION™ differential ion mobility technology adds a new dimension of selectivity to LC/MS/MS analyses.

SYSTEM SPECIFICATIONS

Sensitivity	Cortisol 555 fg on column, 900 uL/min	S/N > 50
Scan speed	12,000 Da/sec	
Polarity switching	20 msec, in MRM and <i>Scheduled</i> MRM™ (sMRM) modes	
Minimum MRM dwell time	1 msec	
Mass range (m/z)	5-2000	
Mass stability	0.1 Da over 8 hours	
Scan types	Full scan MS and selected ion for both Q1 and Q3, product ion scan, multiple reaction monitoring (MRM), <i>Scheduled</i> MRM™ (sMRM)	
Detector type	IonDrive™ High Energy detector, pulse counting	
Dynamic range	6 orders of magnitude	
Ionization source	IonDrive™ Turbo V source with TurbolonSpray® Probe or APCI probe, hybrid microflow TIS and APCI probes, maximum temperature: 750°C	
Flow rate compatibility	5 µL/min to 3 mL/min	
Optional sources	DuoSpray™ ion source (combination ESI/APCI)	

SYSTEM SPECIFICATIONS (continued)

	PhotoSpray® ion source NanoSpray® III ion source
Built-in devices	High-precision syringe pump and switching valve
Software	Analyst® 1.6 software or contains technical controls for 21 CFR Part 11 compliance; includes <i>Scheduled MRM™</i> Algorithm

For Research Use Only. Not for use in diagnostic procedures. RUO-MKT-04-0048-A

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500 Old Connecticut Path | Framingham, MA 01701 USA
Phone 508-383-7700
www.absciex.com

International Sales
For our office locations please call the division
headquarters or refer to our website at
www.absciex.com/offices



Exceedingly
sensitive. Sharply
focused.

AB SCIEX 6500 SERIES MASS SPECTROMETERS



AB SCIEX 6500 Series with IonDrive™ Technology

Visonary sensitivity

The AB SCIEX 6500 Series with IonDrive technology merges highly evolved sensitivity with renowned performance. Adopting an intelligent approach to increasing limits of quantitation, the new patented IonDrive technology introduces a series of system-wide technological advances that not only increase the number of ions produced, but also enhances the way ions are transmitted and detected.

The solution that redefines the question

AB SCIEX evolved the 6500 LC/MS/MS Series to deliver the lowest limits of quantitation with enhanced robustness and up to 6 orders of dynamic range, significantly increasing the breadth of applications possible.

Intelligent by design

IonDrive technology is built into this system, from the ionization source, to the ion-focusing region, and through the detector. A holistic approach to intelligent mass spectrometry design that pushes the limits in LC/MS/MS sensitivity and allows scientists to achieve the lowest limits of quantitation in complex matrices.

QTRAP® for your most challenging questions

Driven by proven Linear Accelerator™ Trap technology, the QTRAP® 6500 system enables quantitative MRM³ workflows that are twice as fast as previous QTRAP platforms making it compatible with UHPLC approaches. And, for complex samples the selectivity of the MRM³ workflow significantly enhances data quality while reducing the need for sample preparation.



IonDrive™ Technology – pushing the limits of sensitivity

AB SCIEX has been designing MS instruments for the past 25 years. Each platform introduced is the culmination of years of research and development in improving sensitivity, accelerating throughput and enhancing data quality. Now, AB SCIEX has pushed the limits of performance again with IonDrive technology built into the new 6500 Series LC/MS/MS.

IonDrive technology simultaneously targets 3 critical areas of enhancements in the 6500 Series, ruggedly driving best-in-class performance improvements and unrivalled sensitivity in three key components of the system:

- The production of more ions with the newly designed IonDrive™ Turbo V source
- The capture and transmission of more ions with the unique IonDrive™ QJet® guide
- The detection of more ions with the new IonDrive™ High Energy Detector





IonDrive™ Turbo V source



IonDrive™ QJet guide

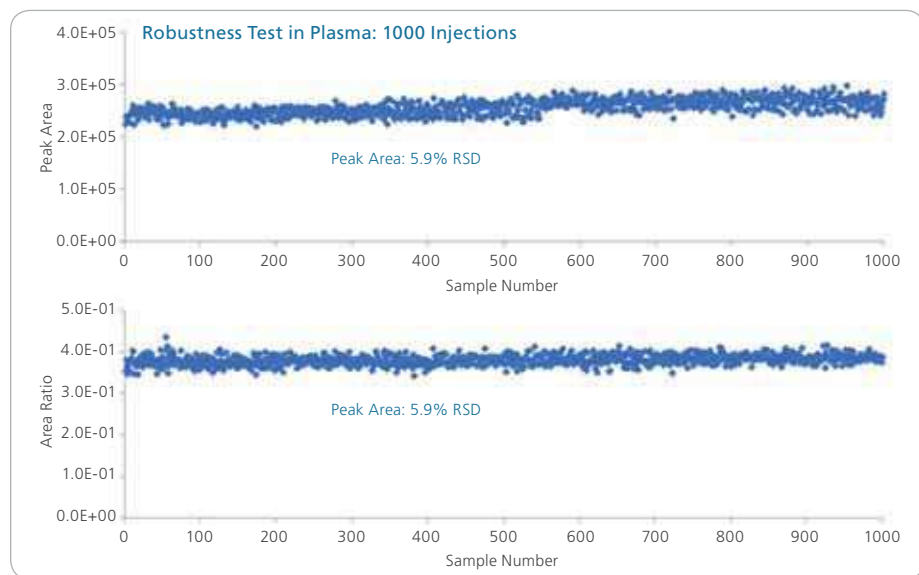


IonDrive™ High Energy Detector

Produce more ions: The next generation IonDrive™ Turbo V™ source increases ion production using enhanced gas flow dynamics and optimized heater configurations while improving reliability, reproducibility and robustness. The IonDrive Turbo V source maintains the quick-change APCI and TurbolonSpray® probes as well as the new low dispersion electrodes for use with microflow UHPLC methods. From 5 µL/min to 3 mL/min, the IonDrive Turbo V source is the perfect match for narrow bore, standard bore, and UHPLC flow rates.

Focus and transmit more ions: Patented and re-optimized IonDrive™ QJet® guide technology improves ion containment and collisional focusing through a dual-stage design that captures and focuses ions more efficiently than antiquated ion funnel approaches.

Detect more ions: The new IonDrive™ High Energy Detector maintains the benefit of pulse counting fundamentals to achieve the most accurate quantitation for low level signals while increasing linearity at higher count rates.



The excellent reproducibility and robustness of the IonDrive technology is demonstrated through 1000 injections of protein precipitation extracts of methamphetamine in human plasma. With 5.9% relative standard deviation (RSD) for the peak areas and 3.2% RSD for the peak area to internal standard ratio the 6500 Series with IonDrive technology delivers consistent quantification for routine ultra high performance results.

Nothing has changed – except everything

At the core of the AB SCIEX 6500 Series sit the proven curved LINAC® Collision Cell and eQ™ electronics, delivering scan rates of up to 20,000 Da/sec and industry leading dwell times of 1 ms. For quantitative and qualitative analysis, the QTRAP® technology offers productive, time-saving workflows that simply cannot be matched with other mass spectrometry systems.

IonDrive™ High Energy Detector

The high energy dynode maintains the benefit of pulse counting fundamentals to achieve ultra sensitivity at low concentrations while increasing the linearity at higher count rates. The result is a more sensitive detector that offers the broadest detector dynamic range of any triple quadrupole.

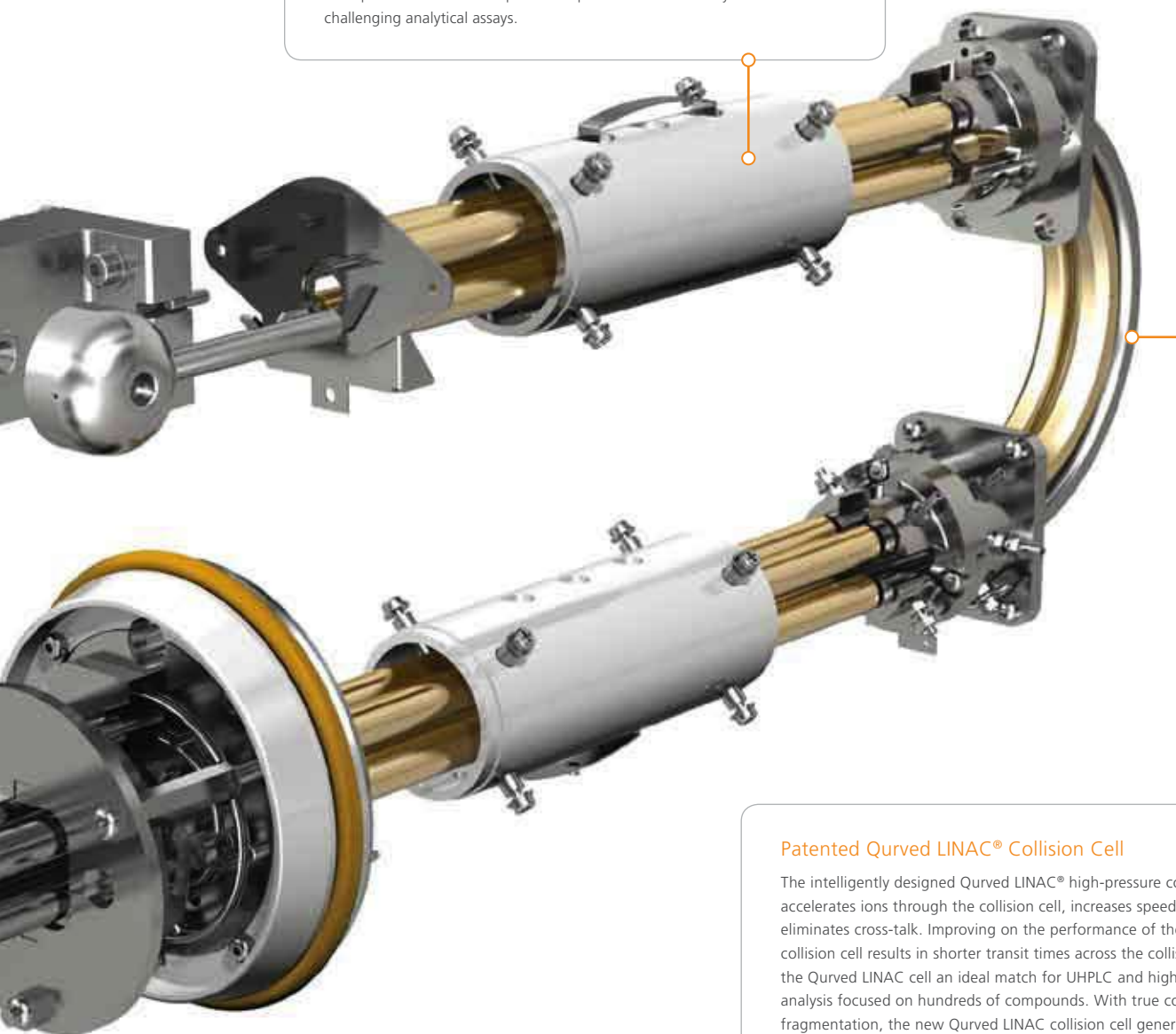
IonDrive™ QJet Guide

Optimized design yields better ion containment and operates at high pressure, providing better collisional focusing to enhance ion transmission for improved sensitivity. The new design also lets the turbopump run cooler and in its ideal operating range.



Optional QTRAP® Technology

Bringing LINAC® technology to the Q3 linear ion trap greatly improves the extraction efficiency to yield greater resolution and sensitivity in ion trap scan modes. Take full advantage of the 20,000 Da/s scan speeds with full scan linear ion trap sensitivity 100X more sensitive than triple quad full scan experiments for greater confidence in qualitative workflows. Improved excitation efficiencies and reduced ion cooling and fragmentation times produce superior MS³ qualitative results and provide unprecedented selectivity for the most challenging analytical assays.



Patented Curved LINAC® Collision Cell

The intelligently designed Curved LINAC® high-pressure collision cell accelerates ions through the collision cell, increases speed of analysis and eliminates cross-talk. Improving on the performance of the legendary LINAC collision cell results in shorter transit times across the collision cell, making the Curved LINAC cell an ideal match for UHPLC and high throughput analysis focused on hundreds of compounds. With true collision-induced fragmentation, the new Curved LINAC collision cell generates reliable, information-rich, library-searchable MS/MS spectra time after time.

Faster Polarity Switching

Next-generation eQ™ electronics deliver enhanced polarity switching speeds of 20 msec. Merged with scan rate of up to 20,000 Da/sec and industry leading dwell times of 1 msec, the 6500 Series captures more data points per peak delivering unmatched data quality and making it more amenable to fast UHPLC workflows.

Revolutionary Dual RF IonDrive™ Technology

The unique dual frequency RF drives expands the performance of the 6500 further through its ability to switch between high mass and low mass optimized ion transmission settings, delivering a no compromises solution between mass range and sensitivity.

The AB SCIEX Triple Quad™ 6500 System

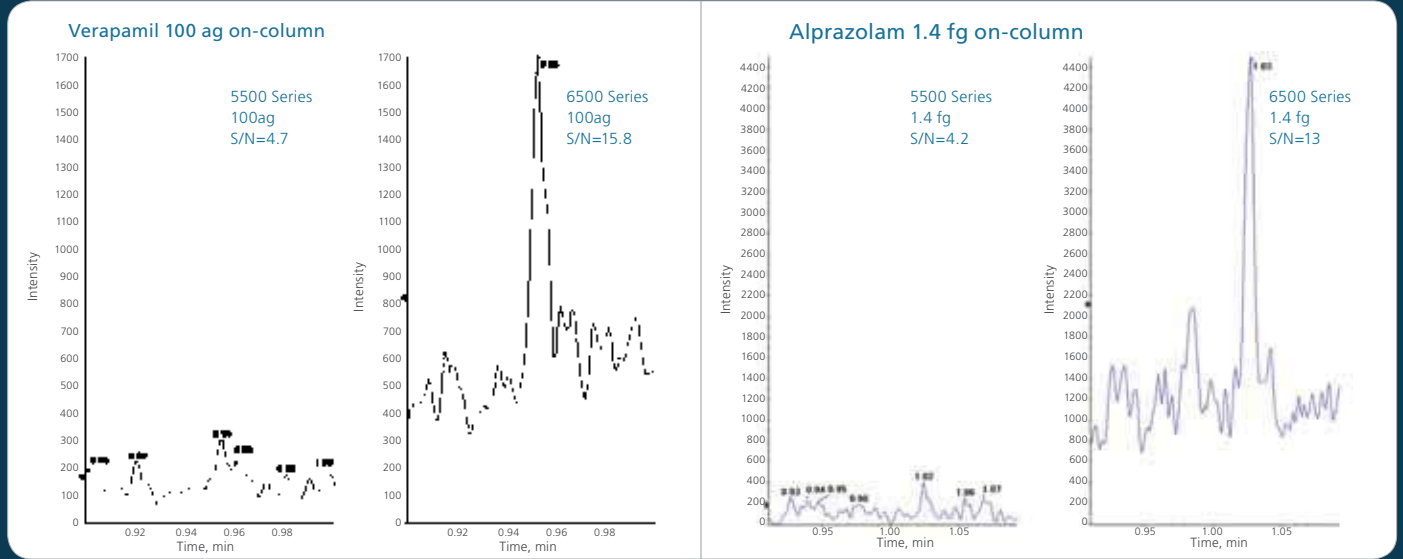
Ultra-sensitive and robust for definitive quant

To achieve the lowest limits in LC/MS/MS quantitation, you have to push the limits of technological advancement. The Triple Quad 6500 system does just that with significant enhancements in everything from ion production, to ion focusing and transmission, and through to detection. The results speak for themselves.

- Improve MRM sensitivity by up to 5X vs. competitive high-end triple quads
- Increase detector dynamic range by 20X achieving 6 orders of dynamic range
- 2000m/z upper mass limit
- Improve inter- and intra- instrument robustness with the new IonDrive™ Turbo V source
- Optimize UHPLC strategies with scan speeds of up to 12,000 Da/sec, and acquire more data points for a given UHPLC peak
- Increase throughput with polarity switching speeds of 20 msec
- Compatible with SelexION™ differential ion mobility technology

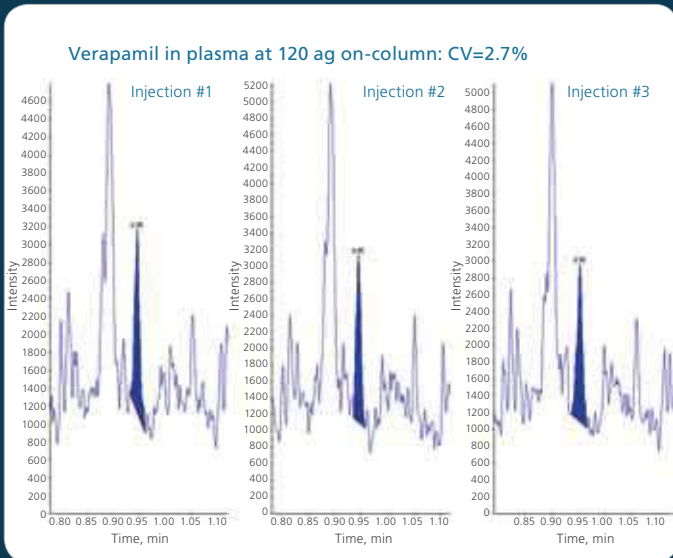


Driving sensitivity



New IonDrive™ technology results in major sensitivity gains compared to previous generation instruments

Driving reproducibility



Unprecedented sensitivity and reproducibility. Verapamil in plasma can be quantified at 120 ag on-column with an excellent precision of 2.7% CV for triplicate injections

Driving dynamic range

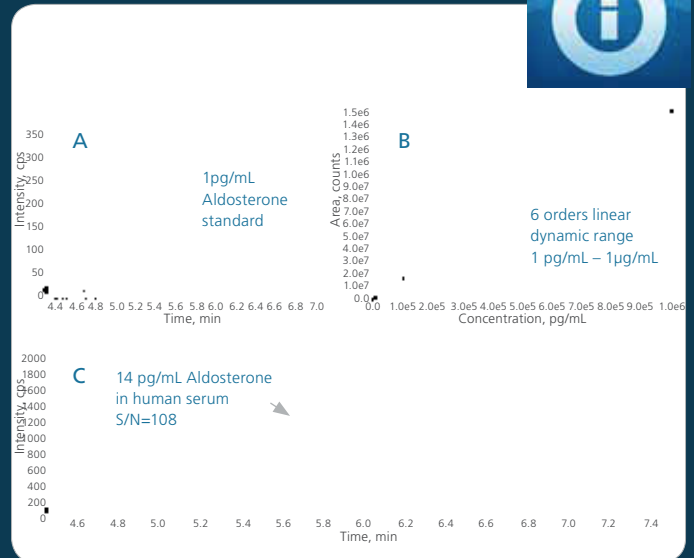


Figure 1: The Triple Quad™ 6500 LC/MS/MS system delivers unparalleled sensitivity and linear dynamic range for the analysis of steroid hormones. (A) 50µL injection of 1 pg/mL aldosterone (C21H28O5) standard. (B) Calibration curve for aldosterone covering 6 orders of magnitude, from 1 pg/mL to 1µg/mL. (C) Analysis of 14 pg/mL aldosterone in a human serum sample.

The AB SCIEX QTRAP® 6500 Series

Ultra-sensitive performance – sharply focused

TripleTrap™ scanning with QTRAP technology

When combined with the QTRAP Technology, the 6500 Series not only allows researchers to push the limits in MRM sensitivity, but also delivers a 100X increase in full-scan sensitivity over basic triple quads. The combined Triple Quad and Linear Ion Trap scan functions provide unrivaled levels of confidence in peptide quantitation and library screening workflows.

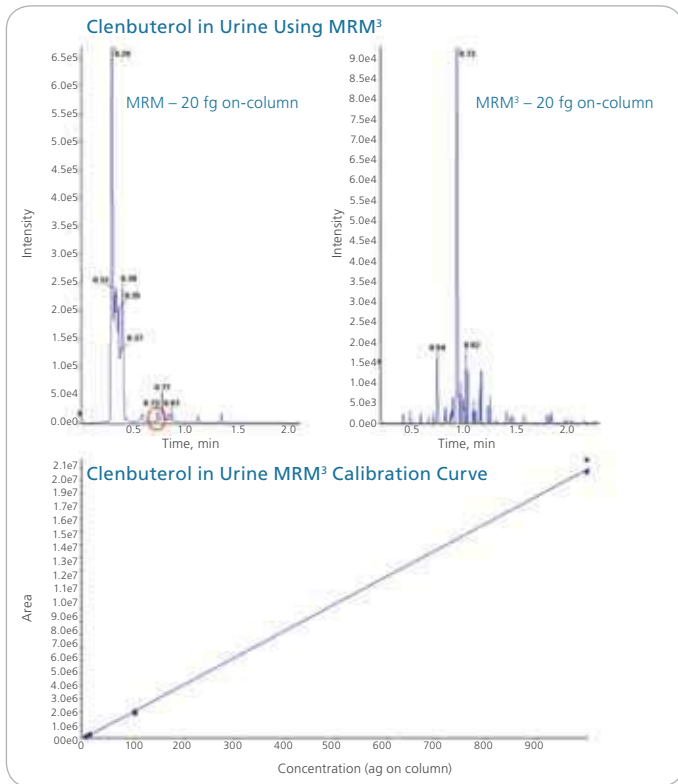
- Boost selectivity with quantitative MRM³ workflows – and reduce the need for extensive sample cleanup or labor-intensive chromatography methods
- Obtain comprehensive peptide sequence confirmation and simplify MRM assay development for peptide quantitation
- Simultaneously quantitate MRMs and perform full library scans to search for contaminants

- Achieve a 100X increase in full-scan sensitivity over triple quads and achieve greater confidence for forensic toxicology applications

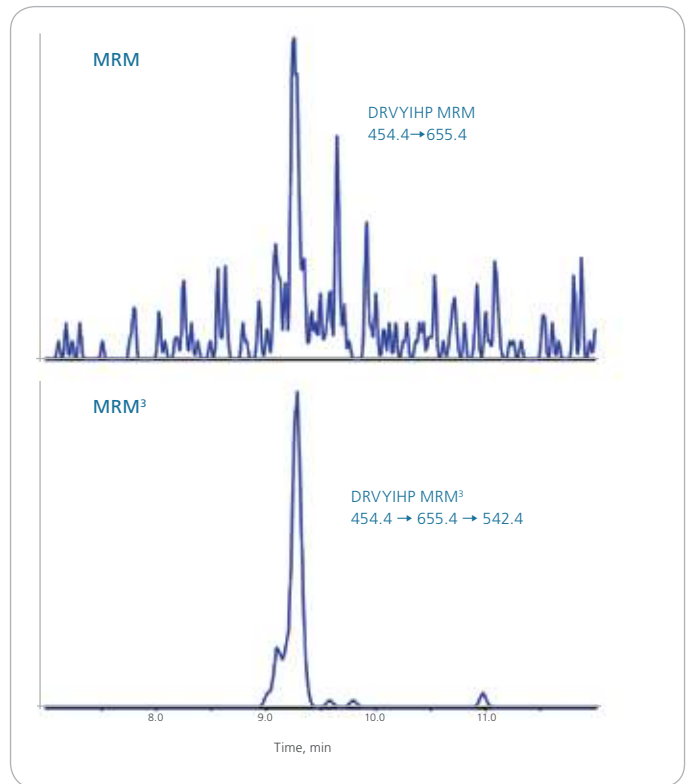
MRM³ with QTRAP technology – quantitation without interferences

When high background or challenging co-eluting interferences make standard MRM quantitation difficult, enhanced quantitative selectivity is a mouse click away with MRM³. The QTRAP 6500 system enables MRM³ scans that are twice as fast as previous generations of QTRAP technology, enabling faster chromatography. Automated MRM³ method scripts building makes parameter definition effortless while also making the MRM³ workflow a fast, reproducible and easy-to-use way to increase throughput.

Enhanced selectivity and quantitation with MRM³



MRM³ for enhanced peptide quantitation



QTRAP® technology enables highly selective MRM³ quantitation to overcome difficult selectivity challenges while maintaining sensitivity.

The MRM³ workflow can often provide higher specificity and therefore better LLOQs in complex matrices over MRM workflow alone, as shown here for the heavy labeled peptide DRVYIHP in digested human plasma.



A world of options – a new dimension in selectivity

Differential ion mobility separation

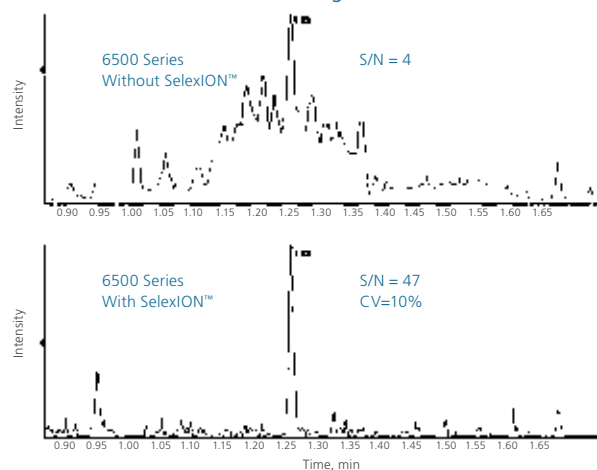
AB SCIEX SelexION™ Technology takes the world's most sensitive triple quadrupole mass spectrometer and adds a new dimension of selectivity for enhanced quantitative and qualitative performance.



Improve data quality and enhance selectivity for challenging samples that require advanced analytical separations. The 6500 Series with SelexION technology is the ideal development suite for any application requiring the separation of isobaric species, isolation of challenging co-eluting contaminants, and reduction of high background noise.



Salmeterol Plasma Extract 1.37 fg on column



Achieving real improvements in LOQ's for bioanalysis requires both sensitivity and selectivity. With SelexION Technology combined with the 6500 series, gains in instrument sensitivity result in true gains for challenging bioanalytical problems such as Salmeterol in plasma.

Front-end solutions for your most challenging assays

Regardless of the challenges encountered in the development of your assays, you can have confidence that the 6500 Series has the tools you need when you need them.



Nanoflow made easy: The NanoSpray® III source makes working with nanoflow chromatography easy while providing the highest sensitivity and stability. The NanoSpray III Source supports regular and column-packed emitter tips for ultimate chromatographic flexibility. The new camera design allows clear spray visualization for simplified optimization. Finger-tight fittings enable you to change tips quickly, so you are up and running in no time.

See what you have been missing: The PhotoSpray® ionization source is a completely self-contained ionization source that expands the range of compounds you can analyze to include low-polarity polycyclic aromatic hydrocarbons.

Double your productivity: The optional DuoSpray™ source contains the TurbolonSpray® and APCI probes in one housing with computer-controlled switching, allowing you to optimize ionization techniques and conditions for each compound during an LC run. It's ideal for fast method development as well as increasing throughput and data quality.



Accelerate your throughput: With the Phytronix Laser Diode Thermal Desorption (LDTD) source, the 6500 Series becomes the ultimate vehicle for sensitivity and throughput, increasing efficiencies in early in-vitro ADME, in-vivo bioanalysis, toxicology research and analysis of drugs of abuse compounds, and clinical research. The LDTD source combines automated sample introduction and mass spec analysis with sample-to-sample analysis times as low as 4 seconds. You can install and remove it within minutes, and it's fully controlled by the Analyst® AAO driver.

Analyst[®] Software

The validated environment designed for quantitation

Proven and accepted throughout the world

The pedigree that defines regulated bioanalysis

The Analyst software is designed to be used as part of a 21 CFR Part 11 compliant system and has over 12 years of experience, innovation, and acceptance by regulated laboratories world-wide behind it. Today, Analyst Software continues to deliver confidence and data integrity with every report and has become the most widely deployed LC/MS/MS software for drug discovery and development.

The Gold Standard – Our Customers

“Analyst’s security settings are highly customizable ensuring we can meet regulatory and customer expectations for our daily data processing routines.”

DR. C. BRISCOE, SENIOR DIRECTOR,
US BIOANALYSIS, PRA INTERNATIONAL

“The Audit Trail in Analyst affords our organization peace of mind that all events are being captured and helps us maintain the integrity of our data”

DR. F. GAROFOLO, VICE PRESIDENT,
BIOANALYTICAL SERVICES, ALGORITHME PHARMA.



What makes Analyst different?

- Analyst service is built into the Analyst Software platform, so it stays running even when you log off Windows
- The unique Analyst Administrator Console provides multi-instrument, project-wide security from a single computer
- Configurable audit map prevents redundant or unnecessary event capture
- Network acquisition for efficient data storage and backup
- A defined Analyst project structure keeps all relevant data interlinked

And finally, Analyst service has a modular architecture, so that you can upgrade and validate what you need, when you need to. This avoids massive and expensive revalidation projects inherent to unified information management systems.

Professional validation services

The AB SCIEX Professional Validation Services team offers comprehensive validation services that cover the range of HPLC IQ-OQ, MS IQ-OQ, Software Validation, and a complete LC/MS PQ that integrates hardware qualifications and software validation. As an AB SCIEX customer, this provides you with a single, end-to-end system validation package – from the manufacturer of the equipment – that encompasses data management, disaster recovery/backup, and data system security.

One touch productivity

Take full advantage of all the speed and power of the 6500 Series. Powerful, workflow-driven software ties everything together to deliver a new benchmark in efficiency, throughput, and productivity. Industry-standard Analyst® Software utilizes the intelligent *Scheduled* MRM™ algorithm to make the method setup of over 1000 analytes in a single LC analysis straightforward and simple while still generating exceptional quantitative and brilliant qualitative results.

Save time, without compromising

MRM data processing

MultiQuant™ Software is a powerful, easy-to-use package that processes MRM data for quantitative information. The software easily handles large data sets consisting of both large numbers of MRM transitions and study samples, with an emphasis on the requirements for processing protein/peptide quantitative workflows. Results can easily be exported to other software packages, or use the software's flexible reporting features to generate custom reports.



Simplified, preconfigured testing

Cliquid® Software pre-configured iMethod™ Applications and simplified user interface make it easier to perform routine food, environmental, forensics, and clinical research testing. With a simple four-step workflow, pre-configured methods, built-in system suitability tests, and automatic reports generated according to regulatory requirements, Cliquid Software both simplifies the use and accelerates the adoption of LC/MS/MS for routine testing.



Complete metabolite coverage

LightSight® Software simplifies analysis of complete metabolite coverage. Create expert-level acquisition methods in just a few simple steps using the automated method development tool. Or take advantage of customized glutathione screening to quickly identify potential reactive metabolites and significantly increase metabolite detection with targeted methods.



ProteinPilot™ Software

ProteinPilot Software streamlines protein identification and quantitation: Identify hundreds of peptide modifications and non-tryptic cleavages simultaneously. Easily distinguish protein isoforms, protein subsets. Suppress false positives. Quantify proteins and peptides across many samples using supported stable isotope labeling workflows.



Your success is our success.

We take it personally.

As an AB SCIEX customer you have access to a world-class customer support organization. Wherever you are, we're there with you as a trusted partner to answer questions, provide solutions, and maximize lab productivity.

The expertise of our service engineers covers the entire LC/MS system. Whether you need help with an ion source, an autosampler, or running an application, they can put your mind at ease. They understand that you can't afford downtime and need problems fixed fast. In fact, they do what it takes to make sure everything is working to your satisfaction and that your results look like they should.

Our application chemists specialize in making workflows flow. They can streamline your sample preparation and eliminate manual steps. They can help you develop methods for fast implementation and scale up for higher throughput. They can help you find ready-to-use iMethod™ Applications that get you up and running fast. They're also only a phone call away if you need help quickly.

When it comes to training, different labs have different needs. Our training specialists can design programs specific to your lab that make the experience as effective and efficient as possible. Choose from hands-on system training for LC/MS techniques or application-specific courses given by leading experts. You can also learn at your own pace with our e-learning modules.

Our customer support organization has access to the latest product updates, software revisions, methods and repair procedures to make sure that you stay on top of your game.

When you have questions, we have answers.

Learn more at www.absciex.com/customersupport

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5520112-02 05/2012



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SCIEX Triple Quad™ 4500

System Specifications

The SCIEX Triple Quad 4500 System is a high sensitivity, bench top triple quadrupole mass spectrometer designed for LC-MS/MS analyses. This instrument provides excellent robustness and long term stability for the most demanding assays. The eQ™ electronics and proven Curved LINAC® collision cell provide unmatched support for fast chromatography applications with thousands of analytes.

SYSTEM SPECIFICATIONS		
Sensitivity MRM mode - positive	Reserpine 1 pg on column	S/N > 50,000
Sensitivity MRM mode - negative	Chloramphenicol 1 pg on column	S/N > 50,000
Scan speed	12,000 Da/sec	
Polarity switching	50 msec, in MRM and <i>Scheduled</i> MRM™ (sMRM) modes	
Minimum MRM dwell time	1 msec	
Mass range (m/z)	5-2000	
Mass stability	0.1 Da over 24 hours	
Scan types	Full scan MS and selected ion for both Q1 and Q3, product ion scan, precursor ion scan, neutral loss or gain scan, multiple reaction monitoring (MRM), <i>Scheduled</i> MRM (sMRM)	
Detector type	AcQuRate™ Pulse Counting CEM	
Dynamic range	5 orders of magnitude	
Ionization source	Turbo V™ source housing with TurbolonSpray® Probe or APCI probe maximum temperature: 750°C	
Flow rate compatibility	5 µL/min to 3 mL/min	

SYSTEM SPECIFICATIONS (continued)

Optional sources	DuoSpray™ ion source (combination ESI/APCI) PhotoSpray® ion source NanoSpray® ion source
Built-in devices	High-precision syringe pump and switching valve
Software	Analyst® 1.6.1 software or later, contains technical controls for 21 CFR Part 11 compliance; includes <i>Scheduled</i> MRM™ Algorithm

Disclaimer:

S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise which produce the smallest standard deviation, after applying up to 3 Gaussian smooths. S/N ratio does not imply the limit of detection (LOD) or limit of quantitation (LOQ) of the MS system or any assay; the S/N ratio presented only applies to the concentrations specified and cannot be extrapolated to any other concentrations.

These specifications are not standard installation specifications for the SCIEX Triple Quad™ 4500 system. The Triple Quad 4500 system is tested and installed in accordance with standard performance tests as described in the AB SCIEX Triple Quad™ 4500 and 4500MD Series of Instruments Installation Checklist and Data Log (GEN-IDV-06-1212).

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AB SCIEX 4500 SERIES MASS SPECTROMETERS



The new workhorse for LC/MS/MS

AB SCIEX 4500 SERIES MASS SPECTROMETERS



AB SCIEX 4500 Series

The LC/MS/MS workhorse, intelligently re-engineered.

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The AB SCIEX 4500 Series is next-generation technology from the leaders in mass spectrometry. Redesigned from the foundation of our industry standard triple quadrupole mass spectrometers, the 4500 Series introduces a new era of LC/MS/MS performance. An era defined by fast, precise quantitation and ultra-fast triple quadrupole scan speeds – an era that's ideal for UHPLC.

Fast LC demands short dwell times

With 1ms dwell times – the fastest dwell times of any mass spec in the industry – the 4500 complements UHPLC separations to screen for more compounds within a single experiment than ever before. And to maximize your capacity and deliver gold-standard quantitation every time, the powerful *Scheduled* MRM™ algorithm will automatically optimize your acquisition method. Now that's a workhorse, intelligently re-engineered.

The world's most sensitive ion trap

AB SCIEX has the only Triple Quads with optional Linear Accelerator™ Trap technology. The QTRAP® 4500 delivers up to 100-fold increase in full scan MS/MS sensitivity, to enable powerful workflows that will give you a new level of confidence in your data.

- No compromise qualitative analysis with the world's most sensitive ion trap
- Simultaneous quantitation and library searching using unique TripleTrap™ scanning
- Unique MRM³ quantitation for enhanced selectivity in complex matrices



Pushing the limits of mass spectrometry

AB SCIEX customers expect maximum uptime and a system that can easily handle the most difficult matrices. The 4500 Series fulfills those expectations – with new levels of dependability and consistency built into the system.

The Turbo V™ source and Curtain Gas™ interface set the benchmark for reliability. And the proven QJet® ion guide, eQ™ electronics, Qurved LINAC® collision cell, and AcQuRate™ pulse counting detector set new standards for system robustness.





Drive productivity

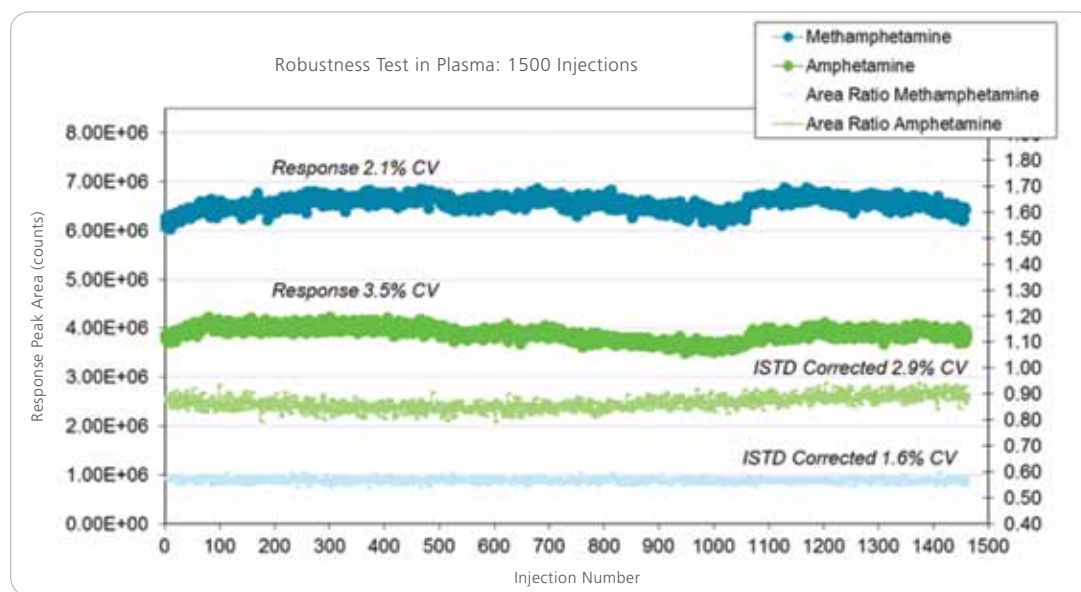
The Turbo V™ source provides high-sensitivity analysis over a wide range of flow rates with quick-change APCI and TurboIonSpray® probes. From 50 µL/min to 3 mL/min, the Turbo V Source is the perfect match for narrow bore, standard bore and UHPLC flow rates, delivering unprecedented desolvation and stability for even the toughest high-flow applications.

Ultimate sensitivity and simplicity

The patented QJet® ion guide improves ion containment and operates at high pressure, providing better collisional focusing to enhance ion transmission for ultimate sensitivity. The proven design also reduces the gas load, allowing the turbopump to run cooler in its ideal operating range. It all adds up to our most reliable system – and with tool-free maintenance, clean-up is simple and straightforward.

Nanoflow made easy

The NanoSpray® III ion source is an easy to assemble and disassemble nanoflow source that makes working with nanoflow chromatography easy while providing the highest sensitivity and stability. The NanoSpray III source supports regular and column-packed emitter tips for ultimate chromatographic flexibility. The new camera design allows clear spray visualization for simplified optimization. Fingertight fittings enable you to change tips quickly, so you are up and running in no time.



The excellent reproducibility for the peak area ratio of Methamphetamine and Amphetamine in human plasma shows the stability of the AcQuRate™ pulse counting detector for consistent quantification day after day, week after week, month after month.

The future path of LC/MS/MS quantitation

The AB SCIEX 4500™ Series brings together the latest hardware from the world's best selling triple quadrupole family, and adds next-generation, ultra-fast and sensitive Linear Accelerator™ Trap functionality. Delivering unmatched quantitative and qualitative analysis, the 4500 Series enables productive, time-saving workflows that simply cannot be done with other mass spectrometry systems.

Patented QJet® Ion Guide

Optimized design yields better ion containment and operates at high pressure, providing better collisional focusing to enhance ion transmission for improved sensitivity. The new design also lets the turbopump run cooler and in its ideal operating range.

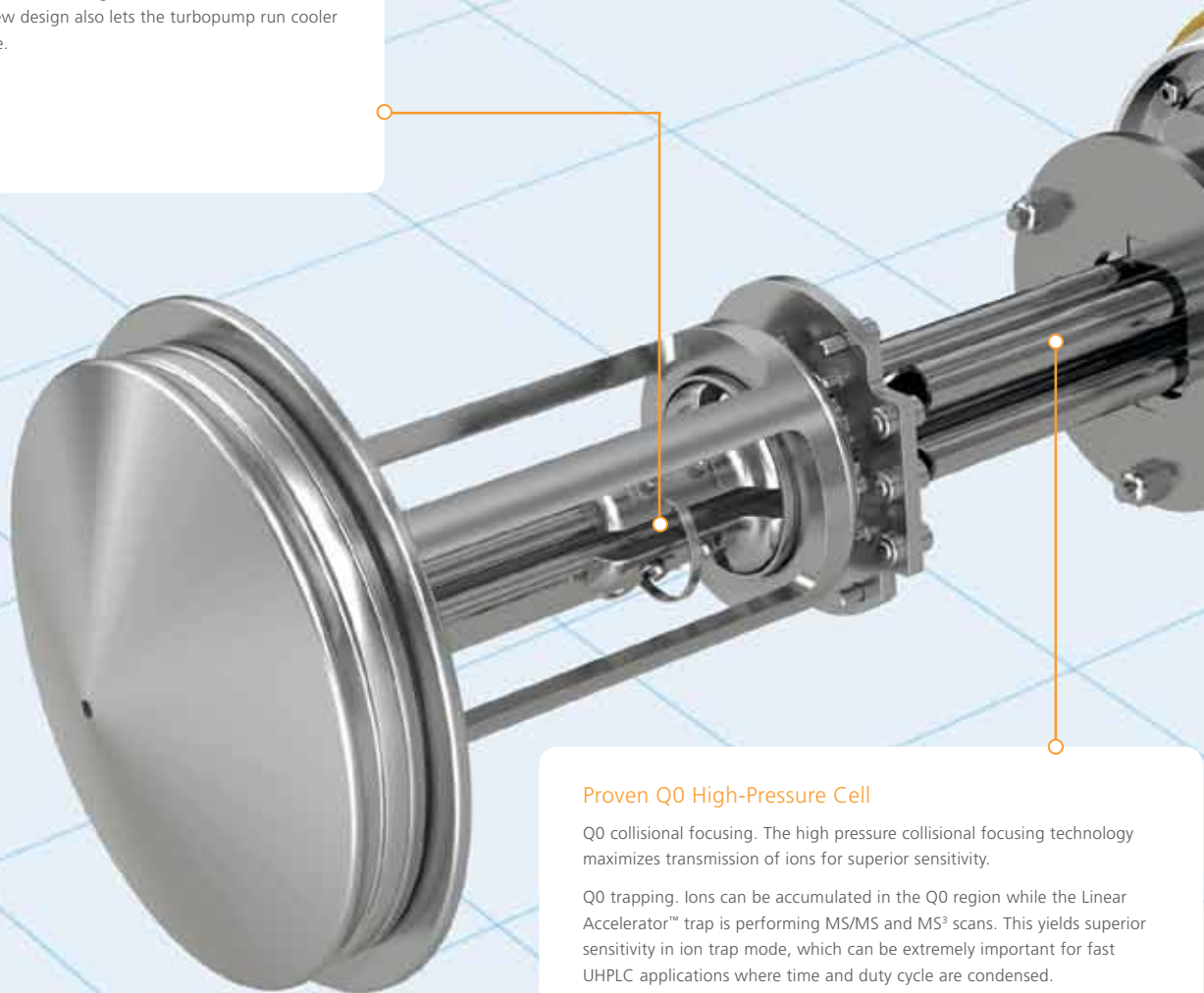
AcQuRate™ Pulse Counting Detector

The AcQuRate™ pulse counting detector combined with a pulse overlap correction algorithm, enabling more accurate and precise ion detection over a wide dynamic range. Operating at maximum gain all the time drives the detector into the digital domain, simplifying the elimination of electronic noise and guaranteeing maximum sensitivity with unparalleled accuracy and precision. The best gets even better.

Proven Q0 High-Pressure Cell

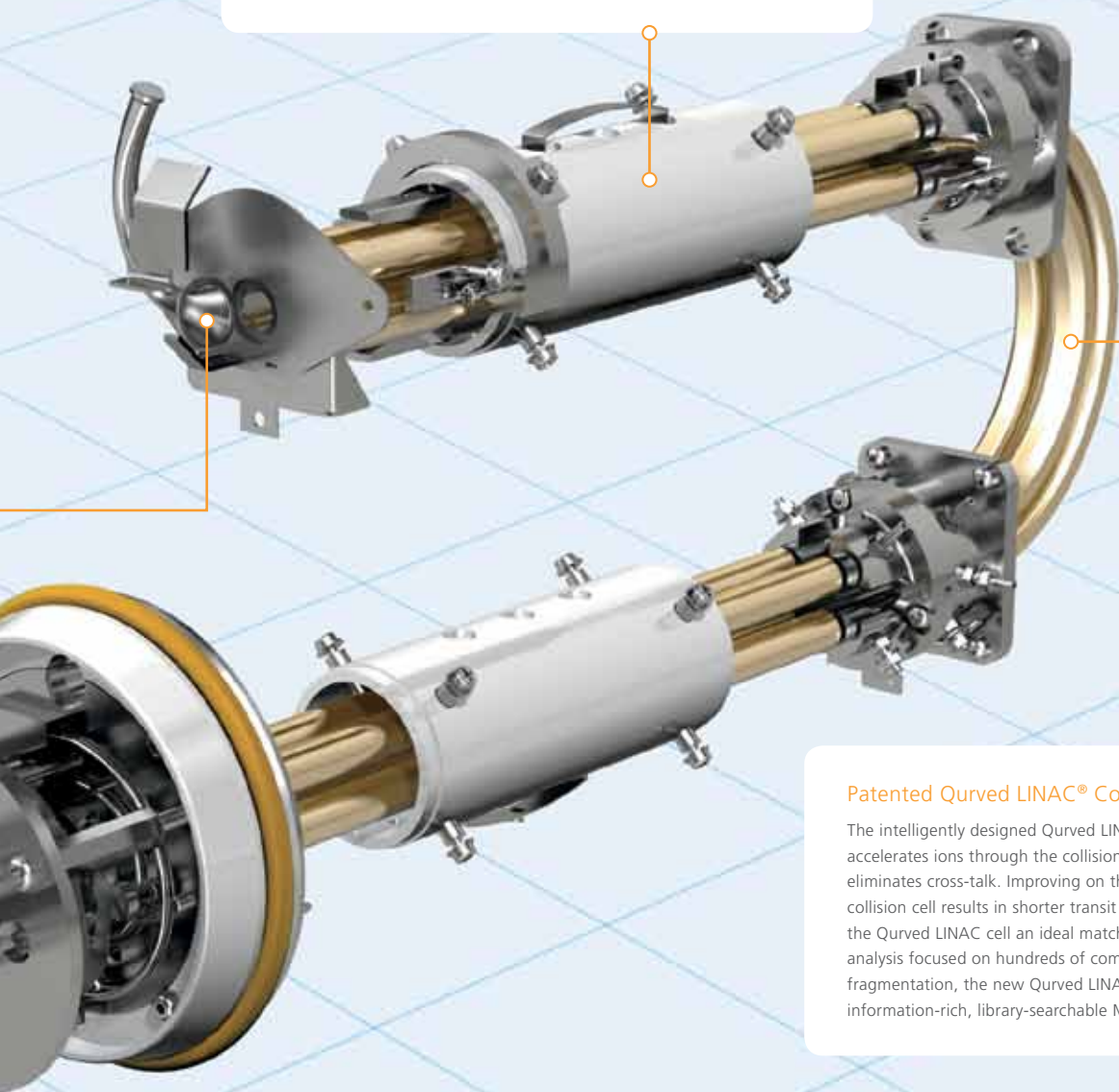
Q0 collisional focusing. The high pressure collisional focusing technology maximizes transmission of ions for superior sensitivity.

Q0 trapping. Ions can be accumulated in the Q0 region while the Linear Accelerator™ trap is performing MS/MS and MS³ scans. This yields superior sensitivity in ion trap mode, which can be extremely important for fast UHPLC applications where time and duty cycle are condensed.



Optional QTRAP® technology

Bringing LINAC® technology to the Q3 linear ion trap greatly improves the extraction efficiency to yield up to a 100 x gain in sensitivity in ion trap scan modes. Now take full advantage of the 20,000 Da/s scan speeds with full scan linear ion trap sensitivity 100X more sensitive than triple quad full scan experiments for greater confidence in qualitative workflows. Improved excitation efficiencies and reduced ion cooling and fragmentation times produce superior MS³ qualitative results and provide unprecedented selectivity for the most challenging analytical assays.



Patented Curved LINAC® Collision Cell

The intelligently designed Curved LINAC® high-pressure collision cell accelerates ions through the collision cell, increases speed of analysis and eliminates cross-talk. Improving on the performance of the legendary LINAC collision cell results in shorter transit times across the collision cell, making the Curved LINAC cell an ideal match for UHPLC and high throughput analysis focused on hundreds of compounds. With true collision-induced fragmentation, the new Curved LINAC collision cell generates reliable, information-rich, library-searchable MS/MS spectra time after time.

Fast eQ™ Electronics for Fast LC

Next-generation eQ™ electronics means polarity switching in 50 ms and scan speeds of 20,000 Da/s. Now, compounds with vastly different functional groups can be measured in a single pass. The new electronics also provide improved ion containment for better sensitivity and superior detector performance. Ultra-fast and ultra-stable instrumentation means you get the most out of your standard or fast LC to save time and accelerate your research.

The AB SCIEX Triple Quad™ 4500 System

Reliable, robust, definitive quant

For real-world commercial labs who need a fully integrated LC/MS/MS workhorse, they can trust, hour after hour, day after day.

The Triple Quad 4500 system is built to match the robustness and reliability established by the API 4000™ system and has been enhanced in performance across all critical parameters: sensitivity, dynamic range, linear ion trap performance, scan speed and footprint.

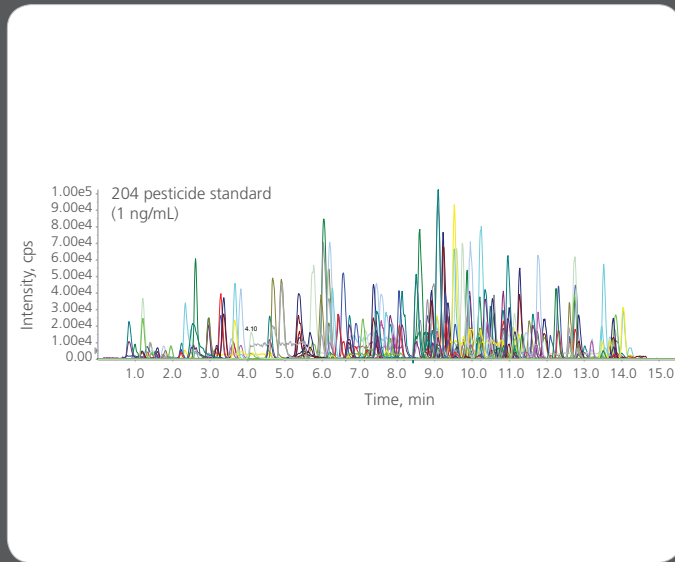
- Improve MRM sensitivity by 10X vs. competitive triple quads in the same class
- Optimize your integration with UHPLC strategies with scan speeds of up to 12,000 Da/sec and acquire more data points for a given UHPLC peak

- Improve your multi-day batch assay reproducibility with solid 0.1 Da mass stability over 24 hours
- Achieve 5 orders of dynamic range
- Screen more compounds with ultra-fast MRM cycle times with 1 millisecond dwell times



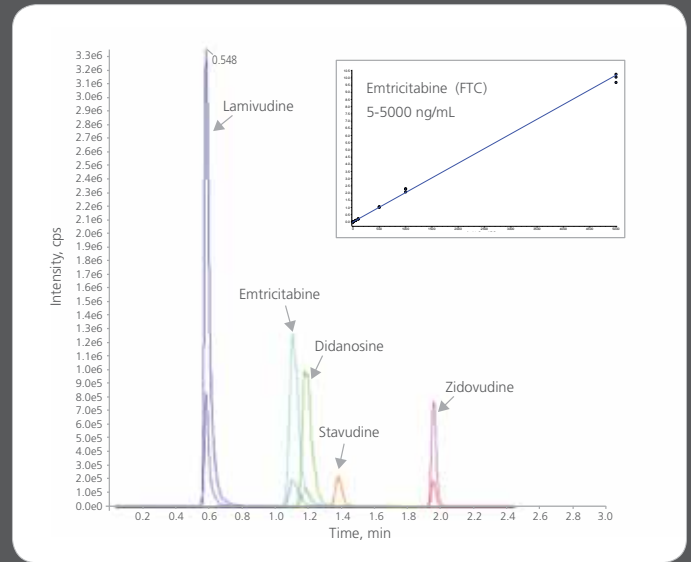
Robustness and performance for any application

Contaminant analysis



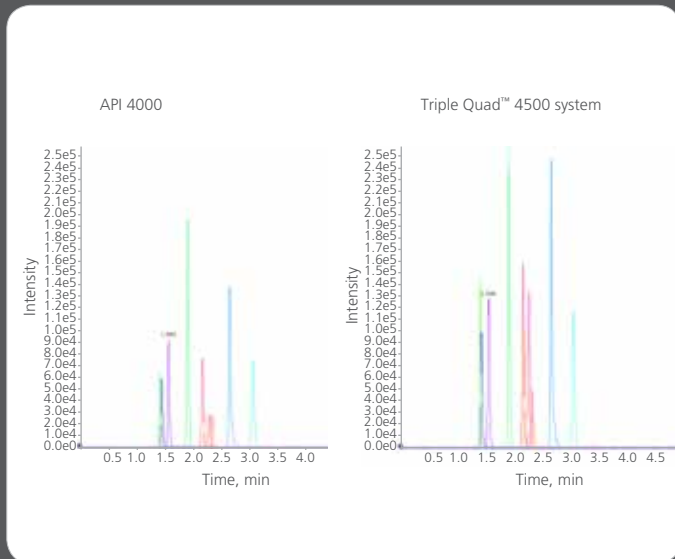
With the fastest dwell times of any LC/MS/MS the 4500 series is ideally suited for multi component contaminant analysis as these data demonstrate with the detection of over 200 pesticides at 1ng/mL. The faster electronics and the intelligent *Scheduled* MRM (sMRM), permits the screening of hundreds of pesticides in a UHPLC time scale.

Drug monitoring research



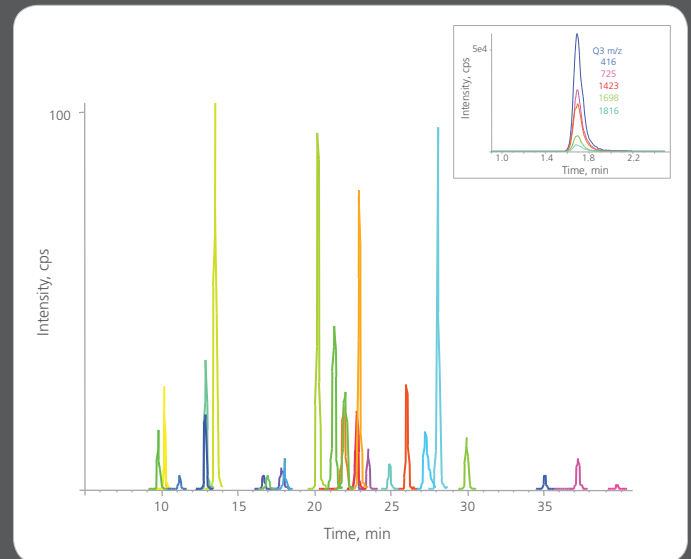
Superior quantitative performance for sensitive, accurate, and reliable analysis in antiretroviral drug research.

Drug discovery and development



Without compromising sensitivity, the Triple Quad 4500 system has improved in every category vs. the API 4000 including dynamic range, scan speed and footprint.

Peptide quantitation



Highly multiplexed peptide quantitation using the *Scheduled* MRM™ algorithm. 30 selected MRM transitions from a 4000 MRM assay of tryptic peptides. This experiment was run in replicate on an Eksigent 200 um ID chiPLC® column with peak area deviation < 10%. Insert: an example of multiple MRMs to a single peptide, showing selected fragment ion chromatograms.

Analyst method converter

Rapidly transfer your workflows

Developed a method? Let Analyst transfer it for you.

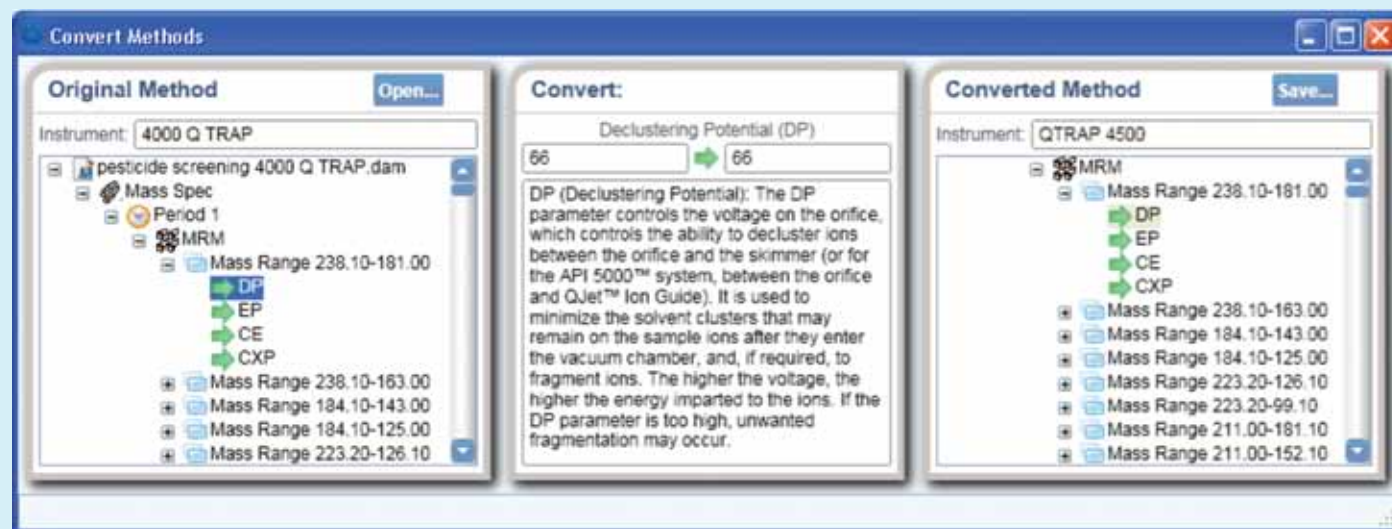
In moving from one mass spectrometry platform to another, AB SCIEX is conscious of the fact that customers need to consider the impact of method transfers on resources, timelines and data quality.

For this reason, AB SCIEX has created the Convert Methods Utility. This innovative tool takes pre-developed Analyst MS-methods established on the 3200, 4000, 5000 and even 5500 platforms and updates them instantly for use with the all new 4500 Series for seamless, accelerated integration.

Simply open your existing Analyst method and the Convert Methods Utility will update the method parameters for immediate use on the 4500 Series.



Let the workhorse do the work



The Convert Methods Utility interface. Simple, fast and automated conversion of MS/MS methods from existing AB SCIEX mass spec platforms to 4500 Series conditions within seconds.

One touch productivity

Take full advantage of all the speed and power of the 4500 Series. Powerful, workflow-driven software ties everything together to deliver a new benchmark in efficiency, throughput, and productivity. Industry-standard Analyst® Software utilizes the intelligent *Scheduled MRM™* algorithm to make the method setup of over 1000 analytes in a single LC analysis straightforward and simple while still generating exceptional quantitative and brilliant qualitative results.

Save time, without compromising

MRM data processing

MultiQuant™ Software is a powerful, easy-to-use package that processes MRM data for quantitative information. The software easily handles large data sets consisting of both large numbers of MRM transitions and study samples, with an emphasis on the requirements for processing protein/peptide quantitative workflows. Results can easily be exported to other software packages, or use the software's flexible reporting features to generate custom reports.



Simplified, preconfigured testing

Cliquid® Software pre-configured iMethod™ Applications and simplified user interface make it easier to perform routine food, environmental, forensics, and clinical research testing. With a simple four-step workflow, pre-configured methods, built-in system suitability tests, and automatic reports generated according to regulatory requirements, Cliquid Software both simplifies the use and accelerates the adoption of LC/MS/MS for routine testing.



Complete metabolite coverage

LightSight® Software simplifies analysis of complete metabolite coverage. Create expert-level acquisition methods in just a few simple steps using the automated method development tool. Or take advantage of customized glutathione screening to quickly identify potential reactive metabolites and significantly increase metabolite detection with targeted methods.



Instrument control, analysis, and reporting

The world's most commonly used LC/MS/MS instrument control software platform, Analyst® Software provides state-of-the-art functionality for instrument control, data analysis, and reporting. The latest version builds on this legacy by providing new features that enhance both performance and ease of use.



The AB SCIEX QTRAP[®] 4500 System

Unmatched simultaneous quantitative and qualitative analysis

TripleTrap™ scanning with the QTRAP[®] technology

QTRAP technology provides a new level of selectivity and confidence. Unique to AB SCIEX mass spec platforms, QTRAP Technology delivers a 100X increase in full scan sensitivity over basic triple quads, enhancing qualitative workflows while offering versatile advantages in simultaneous quantitation and library searching workflows.

Enhanced selectivity under challenging conditions

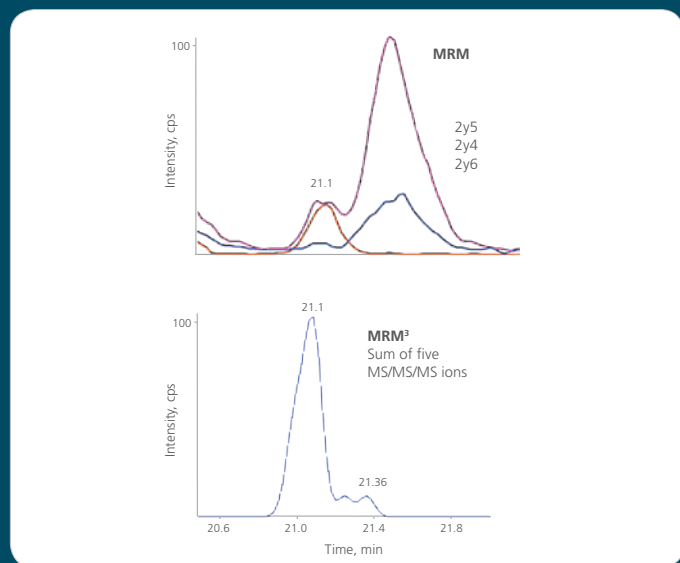
The MRM³ workflows enabled by the QTRAP 4500 system provide enhanced quantitative selectivity when high background or challenging co-eluting interferences make standard MRM quantitation difficult.

- Simultaneously quantitate MRMs and perform full scan library searches for non-targeted contaminants
- Achieve a 100X increase in full scan sensitivity over triple quads providing an enhanced level of confidence for forensic toxicology applications
- Boost selectivity with quantitative MRM³ workflows – and reduce the need for extensive sample cleanup or labor intensive chromatography methods
- Obtain comprehensive peptide sequence confirmation and simplify MRM assay development for peptide quantitation



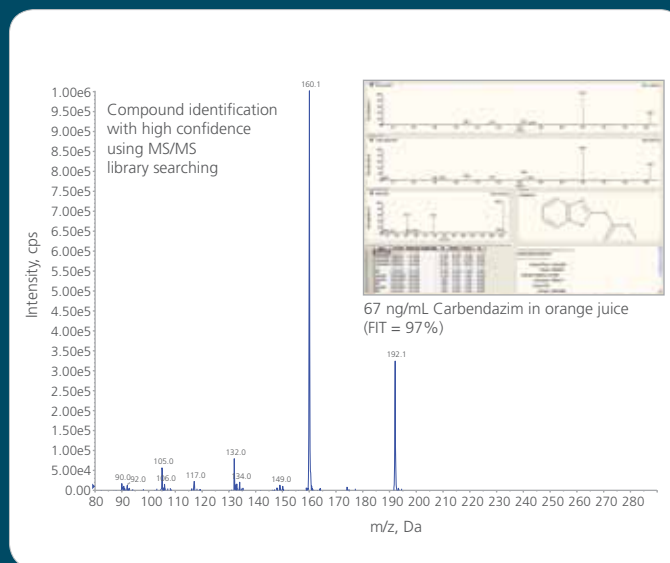
QTRAP[®] technology – unmatched versatility and confidence

MRM³—Enhanced selectivity



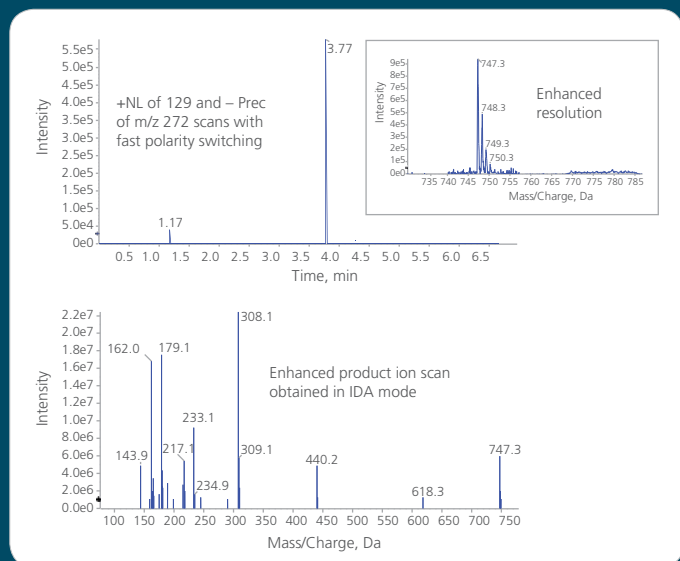
Quantitation of tryptic peptides in a complex matrix. Higher selectivity workflows such as MRM³ (bottom) can provide additional specificity for low level detection of compounds when high background or interferences render MRM workflows ineffective (top). **For research use only.**

High confidence library searching capabilities



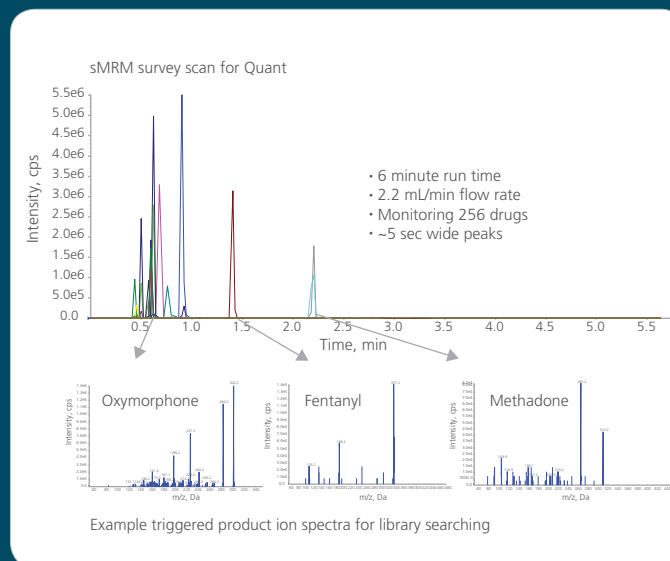
Combining intelligent peak detection with the ability to trap and scan out ions on a UHPLC time scale, creates a potent solution for detecting unexpected contaminants. Add to this a single library of thousands of QTRAP spectra for library matching, and contaminants at the lowest levels can be confidently identified.

Reactive metabolite screening



Troglitazone GSH adduct was detected using complimentary positive neutral loss and negative precursor ion scans, combined with Information Dependent Acquisition (IDA) linear ion trap scans. This unique workflow results in the comprehensive detection and characterization of GSH adducts in a single injection.

Qual-Quant: detection and confirmation



The QTRAP 4500 system allows *Scheduled* MRM (sMRM) to trigger high quality, full scan product ion spectra for use in library searching. With highly sensitive Triple Trap™ scanning it is possible to confidently identify compounds at up to 100X lower concentrations than triple quadrupole full scans. **For research use only.**

You invest in our technology. We invest in your success.

As the world leader in mass spectrometry, AB SCIEX solutions are backed by the industry's most extensive service and support organization. With a network of service professionals, experienced compliance specialists, and over 150 PhD application scientists worldwide, we are dedicated to supporting your technical needs and helping you get the most out of your AB SCIEX systems.

AB SCIEX service professionals are recognized as the most highly qualified in the industry. They are certified on our instrument platforms through a rigorous 4-step certification program, with re-certification occurring every two years. This award-winning program helps to ensure that you receive the most efficient, highest-quality, and most up-to-date service available for AB SCIEX products and technology. Choose from flexible service plans and a variety of services for the right level of support for your laboratory's needs and budget.

Our customer support network is available to provide expert assistance in the use and application of AB SCIEX products through a comprehensive range of services, including application support, technical service, and training.

Whether you access our service and support team by phone, email, on-site visits, or through our innovative remote monitoring technology, you can be confident that the AB SCIEX organization will be there for you.

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