

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014 and ANSI/ASSP Z359.7-2019

Declaration #: DOC-UFH16201GP Declaration Date: 10/10/2023

Item #: UFH16201GP

Description: KStrong® Kapture™ Essential+ 5-Point FBH with Removable Back/Shoulder Pad,

TB Legs (ANSI)

Brand Name: KStrong **Manufacturer:** KStrong

Address: 150 N. Radnor Chester Road, Suite F200, Radnor, PA 19087

Additional Items Conforming Under this Declaration (If Applicable):

UFH16201GP(S-M) UFH16201GP(M-L) UFH16201GP(L-XL) UFH16201GP(XL-2XL)

KStrong declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):

ANSI Z359.11-2021

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014



Level 1:

KStrong Lab Outside the Scope of ISO/IEC Standard 17025:2017



Level 2:

KStrong Lab Within the Scope of ISO/IEC Standard 17025:2017



Level 3:

Independent 3rd Party Lab accredited to ISO/IEC Standard 17025:2017

Supporting Documentation: KS-Test-UFH16201GP.pdf

This Certificate is a guarantee that the above standard(s) was met by the requirements of such standard. Testing was performed under normal operation mode. The results of testing apply only to the particular sample tested and the specific test carried out. This Certificate is only issued for products which have passed the testing requirements of listed standard(s).

Authorized Signature:

John H. Kemp Jr. President - KStrong

ISO 17025 Accredited Test Laboratory





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TEST DATA EXTENSION REPORT

KStrong Inc 150 N. Radnor Chester Rd	SATRA reference:	SPC3062T1H5 2337
Suite F200	Report ID/Issue number:	33129/3
Radnor	Your reference:	Spc30 KStron
PA 19087	Date samples received:	1/2 1/4 2 1/3
USA TAYS	Date(s) work carried out:	10/10/2022 to 12/10/2022
	Date of report:	
		10/10/2023

Testing Requirements

Verification testing of harnesses described as "UFH10211G" & "UFH10201G" in accordance with ANSI Z359.11 - 2021

This report is an extension of a previously issued SATRA test report, the details of which can be found within the content of this Test Data Extension Report.

For SATRA's full terms and conditions see our website: https://www.satra.com/terms_of_business.php

For SATRA's statements regarding the confidentiality, publication and dissemination of this report, decision rules and UKAS accreditation please see the final page of this technical report.

Report Signed by:

Jake Bellingham

Report Signatory



Work Requested

Samples of full body harness (FBH), described as "UFH10211G", were received by SATRA on the 15th August 2022, for testing in accordance with ANSI Z359.11 - 2021

The harnesses have 2 different available variants, with the differences listed below:

"UFH10201G" is identical to "UFH10211G", but does not include a sternal attachment

"UFH10201G(GB)" is identical to "UFH10201G" but in grey
"UFH16201GP" is identical to "UFH10201G" with black webbing and blue strips with non-removable padding
"UFH16201GP(BL)" is identical to "UFH10201G" with blue webbing and black strips with non-removable padding

This report is an extension of SPC0327212 /2208 /1, dated the 31st of October 2023

Conclusions

Sample Reference	Standard Shandard	Clause / Property	Pass / Fail
10	0/10/	3.1 Design Requirements	Not fully
5 7 ₁	~ n _C	775	assessed
UFH10211G	ANSI Z359.11 - 2021	3.2.1 Attachment Element Requirements – Dorsal	PASS
UPHIUZIIG	ANSI 2339.11 - 2021	3.2.2 Attachment Element Requirements – Sternal	PASS
		3.3 Component Requirements	Not fully
	.0.	3.3 Component Requirements	assessed

Testing /

Testing was carried out in accordance with ANSI Z359.11 – 2021 between the 10th & 12th October 2022

Samples were tested as received, and were not subject to any pre-conditioning processes other than those stated in Strong Inc individual test clauses

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TStrong Inc

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Technical Report

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Figure 1 – Harness described as "UFH10211G" (Photo provided by customer) C30627145

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Test Results

Table 1 – Testing of harness described as "UFH10211G" in accordance with ANSI Z359.11 – 2021

~~	10%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10 ₀	~005x
ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	" Inc	Pass / Fail
3.1 Design Requirements	3.1.2 FBHs shall permanently incorporate a dorsal attachment element.	A dorsal attachment ele included	ement is permanently	PASS
SPC306277H	FBHs may contain any combination of other elements but limited to those described in section 3.2	The harness also incluattachment element	des a sternal	PASS
to	FBHs shall permanently include a load bearing sub-pelvic strap, except those described in 3.1.14	The full body harness i sub-pelvic strap	ncludes a load bearing	PASS
27745	3.1.3 Shoulder straps on FBHs shall come together at the dorsal location and either cross, be connected by webbing that	Shoulder straps come location and cross over		PASS
KStrong Inc	meets the requirements of section 3 or attach with a connector meeting Z359.12	SPC30627	KStrong Inc	2,00
S Inc	3.1.4 FBHs shall permanently incorporate a waist belt or back strap, or other means of controlling the separation of the shoulder straps on the back of	The harness permaner strap to control the sep straps on the back of the	aration of the shoulder	PASS
Sp _{C30}	the FBH	~C306274.	Strong Inc	306271Hz
Inc.	When the FBH is mounted onto the test torso, some portion of the back strap or waist belt shall be located between datum	The back strap is locate points G & K	ed between datum	PASS
SPC306277H5	levels G and K 3.1.5 Modular components or assemblies for FBHs designed for the removal of different attachment elements shall meet the specific attachment element requirements of section 3 while	Not applicable – no mo	9	N/A
tstro	attached to a compatible FRH	KStrong Inc	C30627745	ong Inc
KStro1	79 Inc	'ng Inc	1145	"//C

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ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail
3.1 Design Requirements (continued)	3.1.5.1 Modular components shall be attached to the harness using connections that meet section 3 and those components shall have a minimum breaking strength of 5,000 pounds (22.2kN).	Not applicable – no modular components	N/A
SPC3062714	If buckles are used, they must meet ANSI Z359.12 and at least be used in pairs	Not assessed Not a	Not assessed
to	3.1.5.2 When attached to the FBH, an attachment element extender shall be no longer than 24 inches (610mm).	Not applicable – no attachment element extenders	N/A
27145	3.1.6 For FBHs integrated into a vest or other garment, the design of the garment shall allow visual inspection of the FBH	Not applicable – harness is not integrated into a garment	N/A°
KStrong Inc	3.1.7 All FBHs shall be equipped with a fall arrest indicator that will deploy during dynamic testing defined in section 3.2, when attached to the Dorsal element.	Fall indicators are included on the dorsal and deploy during the dynamic testing defined in section 3.2	PASS
Sp _{C3(}	All indicators shall be located where they can be visually inspected	The indicators can be visually inspected	PASS
Sp. C30	3.1.7.1 If fall arrest indicators are present on other attachment elements of the FBH, they must activate when tested in accordance with 4.3.6	Not applicable – indicators are not present on any other attachment elements	N/A KStrop
SPC30627145	3.1.8 FBH with attached connecting subsystem combinations shall meet the requirements of ANSI Z359.11 for the FBH and the appropriate	Not applicable – no attached connecting subsystem combinations	N/A
KStroj	Z359 component standard for the attached sub-system(s) when tested respectfully	KStrong Inc	ng Inc

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	ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	ts
KStro	3.1 Design Requirements (continued)	3.1.9 All FBHs shall include retainers (keepers) or other components which serve to control the loose ends of straps	Retainers are present to control the loose ends of straps	PASS 7	75
Inc	SpC306271H	3.1.10 All FBHs shall include at least one lanyard parking attachment element having a disengagement load of not more than 120 pounds (0.5kN).	2 lanyard parking elements are present Triangular attachment disengagement load: 0.05kN Circular attachment disengagement load: 0.05kN	PASS (Strong Inc
SPC3	ts	3.1.11 It shall not be possible to remove elements of the FBH that support the shoulders/upper torso from those that support the legs/lower torso	The upper torso cannot be removed from the lower torso	PASS	Sp _{C3}
	27145	3.1.12 All single point attachment elements shall be located laterally within 2 inches (51mm) of the vertical centreline of the FBH	The dorsal and sternal attachment elements are located within 51mm of the vertical centreline of the harness	PASS	80 ₆₀ .
145	KStrong Inc	3.1.13 Sternal attachments that consist of two elements intended to be connected at a single point for use shall be fixed and not adjustable vertically.	Not applicable – sternal attachment consists of only 1 element	N/A	X7145
Strong	Sp _{C30}	Both elements shall be clearly marked to only be used together	SPC3062T1H2 KStrong Inc	3062T1H5	1Stron
-9	Inc	3.1.14 FBHs that do not include a sub-pelvic strap shall incorporate both frontal and sternal attachment elements, an	Not applicable – harness includes a sub- pelvic strap	N/A	
	SPC30627145	integral waist belt and leg loop suspension straps, two at the front and two at the rear, all integrally attached to the waist belt	TAY5 KStrong Inc SPC3062TAY5	KStro	ong Inc

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	ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail
TSX	3.2.1 SAN Attachment Element	3.2.1 The dorsal attachment element shall be located as shown in figure 4 of ANSI	The dorsal attachment element is located as shown in figure 4, and is used as the fall arrest attachment	062T1H
	Requirements - Dorsal	Z359.11, and used as the fall arrest attachment, unless the application allows the use of an	76	PASS
	.02	alternate attachment as defined in 3.2.2 or 3.2.3	45x SDC30	to
	C3062771	3.2.1.1 The dorsal attachment may also be used in travel restraint or rescue	The dorsal attachment may also be used in travel restraint or rescue	S PASS
	<i>'</i> ~,	3.2.1.2 When supported by the dorsal attachment during a fall,	During a fall, the load is directed through the shoulder straps supporting the user around the	
	to	the design of the FBH shall direct load through the shoulder straps supporting the user	thighs SPC30632	PASS
30 ₆	27745	around the thighs 3.2.1.3.1 When tested for dynamic feet first, the FBH shall meet the following criteria:	Feet first drop: Dummy restrained by FBH and held for 5 minutes	
		a) FBH shall not release the test torso	Angle of dummy from vertical: 7.9°	Spo
	KStrop.	b) FBH shall support the test torso for a period of 5 minutes post fall	Fall arrest indicator deployed and is visible: Yes	C37
	Juc Inc	c) FBH shall support the test torso, post fall at an angle not greater than 30° to	FBH stretch: 220mm	PASS
	Sp	vertical d) At least one fall arrest indicator shall be deployed	SPC300 KStrop	062
rong	ln _o	visibly and permanently FBH stretch shall not exceed 18 inches (457mm), or less if stated	SPC3062T1H5 KStrong Inc	145
	<i>*C</i>	by manufacturer		

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	- 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail	4
, .	3.2.1	3.2.1.3.2 When tested for	Head first drop: Dummy restrained by FBH and	062	
TSX	Attachment	dynamic head first, the FBH	held for 5 minutes	< 17L	
~φ	Element	shall meet the following criteria:	145	1/3	
	Requirements	a) FBH shall not release the	Angle of dummy from vertical: 23.2°		
	Dorsal	test torso			
	(continued)	b) FBH shall support the test	Fall arrest indicator deployed and is visible:		
		torso for a period of 5	Yes	- tie	
	.02	minutes post fall	TS12	PASS	On
	C.22	c) FBH shall support the test	62.		19/20
	0062	torso, post fall at an angle	Y Inc	5	70
)_	7/1/	not greater than 30° to	75		
C	76	vertical			
		d) At least one fall arrest			
		indicator shall be deployed	0. 4-		Sp
		visibly and permanently	5 (15) 1 (15) 2 (20)	100	C,
0	to	3.2.1.3.3 When tested for static	Feet first static: 3,600 pounds (16kN)	10/201	
C300		strength feet first, the FBH shall	sustained for 1 minute in the direction of the	1/1/C	
0	271.	meet the following criteria:	neck without release		
	145	a) FBH shall not release the	Clina and the second adjustance Occurs		
		test torso	Slippage through adjusters: 0mm		
		b) Slippage through any	Fuelet edicatere in alude de Vee	.0.	
		adjuster shall not exceed 1	Eyelet adjusters included: Yes	Co.	
	_	inch (25mm)	Eyelet adjuster tearing distance: 55mm –	-00	65
	1 Stra	c) The strap to which a buckle	eyelet tore into adjacent eyelet, but did not tear		7/40
	TONO 1.	and eyelet adjuster is fitted shall not tear further than	any further	PASS	10
/~	"C	the eyelet adjacent to the	Any sign of tearing of straps: No tearing of		
5		one through which the	straps other than from the eyelet adjusters		
		tongue of the buckle	Straps other than norm the eyelet adjusters		
		originally passed or 1 inch if	Spa		tion
	22	there is no adjacent eyelet	OD TOM	000	
5.	~C.3	d) Except for the straps of the	30 ₆₃	· 277	
Trop	0	buckle and eyelet adjusters,	The	175	
. 10	Inc	straps shall not allow any	175		
	70	signs of tearing			
		3 2 1 3 4 When tested for the fall	Both indicators deployed at a force lower than		
		arrest indicator test, at least one	4kN	4	
L		fall arrest indicator shall deploy	to.	PASS	
6	Spor	visibly and permanently	10 trop	0/	9 12
	C30627145		77. 19/Da 145		"C
	<7 ₇₄	ong Inc	145		
	'75				

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	ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail
Stro	3.2.2 Attachment Element Requirements -	3.2.2 The sternal attachment element shall be located as shown in figure 4 of ANSI Z359.11, and used as an	The sternal attachment element is located as shown in figure 4 and is used as an alternative fall arrest attachment element	×171
	Sternal	alternative fall arrest attachment in applications where the dorsal attachment is determined to be inappropriate by a competent person and where there is no chance to fall in a direction other than feet first	627745 KStrong Inc	PASS
		3.2.2.1 The sternal attachment may also be used in travel restraint or rescue	The sternal attachment element can also be used in travel restraint or rescue	PASS
306	ts.	3.2.2.2 When loaded at the sternal attachment to arrest a fall, the design of the FBH shall	During a fall, the load is directed through the shoulder straps supporting the user around the thighs	PASS
	145	direct load through the shoulder straps supporting the user around the thighs		, , , , ,
	Kstrong Inc	3.2.2.3.1 When tested for dynamic feet first, the FBH shall meet the following criteria:a) FBH shall not release the test torso	Feet first drop: Dummy restrained by FBH and held for 5 minutes Angle of dummy from vertical: 29.9°	o'p _C ;
	70	b) FBH shall support the test torso for a period of 5 minutes post fall	Fall arrest indicator deployed and is visible: N/A – no sternal fall indicators present	
7.0	Sp _{C3(}	c) FBH shall support the test torso, post fall at an angle not greater than 50° to vertical	FBH stretch: 190mm	PASS
	Inc	d) If incorporated into the FBH per the requirements of 3.1.7.1, at least one fall arrest indicator shall be deployed visibly and	KStrong Inc SPC306277H5	KStro
	SPC30627145	e) FBH stretch shall not exceed 18 inches (457mm), or less if stated by manufacturer	KStrong Inc SPC3062T1H5	
	Kstro1	SPC30627745	KStrong Inc SPC306277H5 KStro	ong Inc

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Clause / Test 3.2.2 Attachment Element Requirements - Sternal (continued) Slippage through any adjuster shall not exceed 1 inch (25mm) c) The strap to which a buckle and eyelet adjuster is fitted shall not tear further than S.2.2 3.2.2.3.2 When tested for static stratic: 3,600 pounds (16kN) sustained for 1 minute in the direction of the neck without release Slippage through adjusters: 0.5mm Slippage through adjusters: 0.5mm Eyelet adjuster sincluded: Yes Eyelet adjuster tearing distance: 1mm Any sign of tearing of straps: No PASS
- Sternal (continued) b) Slippage through any adjuster shall not exceed 1 inch (25mm) c) The strap to which a buckle and eyelet adjuster is fitted shall not tear further than Slippage through adjusters: 0.5mm Eyelet adjusters included: Yes Eyelet adjuster tearing distance: 1mm Any sign of tearing of straps: No PASS
adjuster shall not exceed 1 inch (25mm) c) The strap to which a buckle and eyelet adjuster is fitted shall not tear further than Eyelet adjusters included: Yes Eyelet adjuster tearing distance: 1mm Any sign of tearing of straps: No PASS
and eyelet adjuster is fitted shall not tear further than Any sign of tearing of straps: No PASS
the eyelet adjacent to the
one through which the tongue of the buckle originally passed or 1 inch if
there is no adjacent eyelet d) Except for the straps of the buckle and eyelet adjusters, straps shall not allow any signs of tearing
3.2.2.3.3 if the harness is Not applicable – no fall indicators present
equipped with a fall arrest indicator for the sternal attachment element, when tested for the fall arrest indicator test, at least one fall arrest indicator shall deploy visibly and

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745	Ind luc	627145	ong Inc	°C
	ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail
tom	3.3.1 Component Requirements – Load bearing	3.3.1.1 Straps shall not be less than 1-5.8 inches (41mm) in width	Width of straps: 44mm	PASS
	straps	3.3.1.2 When tested in accordance with reference 7.1.1, straps shall have a breaking	Not assessed	Not assessed
	SPC306271	strength not less than 5,000 pounds (22.2kN) 3.3.1.3 Straps shall be made	Not assessed	Not
C	4.	from pure, non-recycled synthetic material having the strength, aging, abrasion and heat resistance characteristics equivalent or superior to		assessed
^C 306	27745	polyamide or polyester. Synthetic materials other than those stated herein are permitted only when it can be demonstrated by testing that all requirements of this standard	KStrong Inc	.0.
5	KStrong Inc	are met and additionally, that the durability, reliability and other properties pertinent to the intended uses have been evaluated and determined suitable by testing. Any restrictions on the use of such	SPC3062T1H5 KStrong Inc	C ₁
,	Sp	materials shall be marked on the FBH	SPC3062 KStrong	PO6271
rong	Inc	3.3.1.4 Straps shall be either hot cut, sealed, covered or stitched to prevent fraying	Straps are hot cut and sealed to prevent fraying	PASS
	SPC30627145	3.3.1.5 After abrasion conditioning in accordance with reference 7.1.2, straps shall have a breaking strength of not less than 3,600 pounds (16.0kN) when tested in accordance with reference 7.1.1	Not assessed KStrong Inc 7145	Not assessed
n ₆₂ ,	KStrop	3.3.1.6 Straps in contact with metal connectors at attachment elements and tongue buckles shall be protected from wear	Straps in contact with metal connectors at attachment points are protected from wear	PASS

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	ANSI Z359.11 - 2021 Clause / Test	ANSI Z359.11 – 2021 Requirement	Result / Comment	Pass / Fail
KStr	3.3.1 Component Requirements – Load bearing straps	3.3.1.7 The spacing between hole centres of adjacent eyelets for buckle and eyelet type adjustors used in FBHs shall be no more than 2 inches (50mm)	Distance between hole centres of adjacent eyelets: 42mm	PASS
	(continued)	and not less than 1-1/8 inches (29mm)	Ks. Sp.	To
Inc	3.3.2 Component Requirements – Thread and	3.3.2.1 All thread shall be of the same material as the load bearing straps	Not assessed	Not assessed
	stitching	3.3.2.2 All stitching shall be lock stitched and be securely backstitched to prevent unravelling	Stitching is lock stitched and back stitched to prevent unravelling	PASS
^{C3} 06,	18, 1277 ₁₄₅	3.3.2.3 All stitching used to connect load bearing members shall be contrasting in colour to the load bearing straps of the FBH to facilitate visual inspection	Stitching is of a contrasting colour to facilitate visual inspection	PASS
145	3.3.3 Component Requirements – Connecting components	3.3.3.1 All connecting components, except soft loop attachments, used for FBH construction shall conform to ANSI Z359.12	Not assessed 106277145	Not assessed
TStrong	Inc SpC31	3.3.3.2 Soft loop attachments may be used in place of metal connecting components at all FBH attachment element locations	Not applicable – no soft loop attachments	N/A 0627745
į	SPC30627145	3.3.3.3 Soft loop attachments shall be constructed using material that meets the requirements of section 3.3.1, excluding 3.3.1.1	Not applicable – no soft loop attachments	N/A KStron
,		3.3.3.4 Soft loop attachments shall include protection from wear over the entire inside surface	Not applicable – no soft loop attachments	N/A
⁷³⁰ 627	KStron	19 Inc	NStrong Inc	ng Inc

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ADDITIONAL INFORMATION / NOTES

	ncertainty of measurement information (see r	note 1)
Clause / Test	Test / Component	UoM /p
Dynamic, feet first 3.2.1.3.1	Applied force (to test sample)	± 0.855%
3.2.2.3.1 3.2.3.1.1	Angle measurement	± 0.161°
Dynamic, head first	Applied force (to test sample)	± 0.894%
3.2.1.3.2	Angle measurement	± 0.161°
Static, feet first 3.2.1.3.3 3.2.2.3.2	19 Inc	776 1775
3.2.3.1.2 3.2.4 3.2.5 3.2.6 3.2.7	Applied force (to test sample)	± 50N SPC3062T1HE KStrong In
Dynamic, indicator test 3.2.1.3.4 3.2.2.3.3	Free fall distance	± 2.05mm
Static, indicator test 3.2.1.3.4 3.2.2.3.3	Applied force (to test sample)	± 314N
Component requirements 3.3.1	Determination of length	± 2.05mm

Note 1 – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard Strong Inc

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Conditions of Use

Confidentiality and Dissemination

SATRA test reports may be forwarded to other parties provided that they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Liability

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Accreditation

Where the UKAS logo is included on the test report then tests marked ≠ fall outside the UKAS Accreditation Schedule for SATRA. Where no UKAS logo is included on the test report then none of the tests reported are covered by SATRA's UKAS Accreditation.

Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

Uncertainty of Measurement and Decision Rules

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Where a report contains SATRA guidelines values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.