Planned Maintenance Checklist

433A Peptide Synthesizer Systems						
Instrun	nent Location:					
Serial Number: Service Engineer:		SO #:				
		Date:				
	· · · · · · · · · · · · · · · · · ·					
service report It is not neces	t. ssary to perform ext to each task	cklist plus any parts used in addition to the PM kit MUST be noted on an accompanying ALL of the checks listed below in order to complete a PM visit. performed, a "X" next to each task not performed, and N/A if not applicable. Do not				
Prelimin	ary					
· •		emicals and install clean empty bottles in all positions. t and repair any errors before continuing PM				
ECO Upo	dates					
	All the service	updates listed below MUST be fitted by the end of this visit:				
		Vent/waste system update (SB #149) Poppet valve shield (SB #152) Vent/waste system update (SB #149) Backup safety valve (SB #112)				
Replace	ment Parts	S				
•	Replace the	vortexer belt (4397), the upper bearing (603092), and the RV lines (601371).				
- - •		dle assembly (602995).				
- 		gaskets on external bottle caps #9 and #10 (4498).				
- -		le ratchet caps #1 and #5 (3559) and any others found to be damaged or stressed. TFA Angar vent valve (tBOC only) (600640 – part not supplied in PM kit)				
. 	Replace activ	vator and reaction vessel bulbs (200591)				
- - •	Replace all ir	n-line filters (401771).				
Checks,	Tests and	l Procedures				
- 	Check Synth	assist software is installed correctly and rebuild computer desktop				
		tion of instrument front panel display and function switches				
- - •		ent line for low spots where liquid could get trapped. Advise customer of findings.				
- - •	Methanol.	uid from the bottle vent lines. Wash the pressure and vent lines of bottle #1 and #8 with				
		acuum lines are free of any fluid traces. Check vacuum assist activates above 13" Hg.				
- - •	Clean fan filte					
•		y by switching the instrument off then on. Date, barcode reader should be current.				
- - •		ortexer for correct operation.				
- 		mage to fittings on external bottle caps #9 and #10 – replace as required.				
- - •		ttle inserts, reagent delivery lines, and valve block fittings are free of blockages, wear,				
- -	damage or le	dge guide way with IPA or Methanol and check the pusher block spring (224009 - not				
		d replace if loose, frayed or kinked.				
- - •	Leak test Pr	ressure Relief Valve, all bottle positions, and RV. Repair failures.				
- - •		edle assembly, check/adjust needle height and verify correct operation.				
- -		ector mechanism with Methanol and verify correct operation.				
- - •	Calibrate bar	code reader ensure the average is 2000 +/ - 500.				

Perform flowtests. Repair any flow-related issues.

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Note: Lower regulator must not exceed 11psi during flowtests

433A FLOWTEST

Software Version		on	Lower reg	Che	mistry
FLOW	TEST	DESCRIPTION	PERMITTED RANGE	(standard cycles not 3ml)	ACTUAL VALUE
1 2 6 7 8 9 10 11 12 16 20	a b f g h l A B C G b	#1 to RV #2 to RV #6 to RV #7 to RV #8 to RV #9 to RV #10 to RV #10 to cart #9 to cart #10 top RV conductivity cell	1.9 - 2.4ml DIEA, 0.8 - 1.95 - 2.05ml TFA (tBC) 1.95 - 2.55ml MeOH Observe liquid in waste Observe liquid in waste 2.9 - 3.5ml DCM 2.45 - 2.55 (2.75) ml N 1.95 - 2.35g NMP 3.4 - 4.1g DCM 1.0 - 1.2ml NMP list readings	oc only) e line e line	
22	d	1-X	List	Pip NMP DCM	

All tesks of the planned Maintenance have been successfully completed							
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Customer Signature	Engineer Signature	Date					