Washington State Patrol
Impaired Driving Section

Evidentiary Breath Test
Instrumentation Specifications

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will be adopted by the WSP Impaired Driving Section. c. The instrument shall be capable of making measurements on solutions during the QAP and printing final results of QAP, similar to the form located on Pg. 24. d. This data may change and must be capable of being updated through the communication process described in item 42.		
23. The instrument shall recognize the QAP and shall be capable of passing the QAP on the instrument by an instrument prompt. a. A confirmation shall be given and the QAP printed from the instrument to be signed and filed by the technician for discovery purposes. b. Once the instrument has passed its QAP, it must be capable of holding that data for one year maximum. c. If a new QAP has not been completed at the time it comes due, the instrument shall be programmed to place itself out of service and send a message to the host computer at the time of polling each week, as well as send a message to the host computer when a QAP is due; this message should appear when instrument is within 30 days of QAP. d. At the time the QAP expires, no evidential test shall be accessed and the instrument shall display 'out of service' to any basic operator who tries to access. e. No basic operator shall be able to perform an evidentiary test during the time that the instrument is out of service. f. The instrument shall be capable of running a breath test if placed into training mode by an instructor or higher qualification such as technician.		
24. The instrument must be capable of determining if all breath samples are within +/- 10% of the mean of all measurements performed. The formula to utilize for this function will be detailed on Pg. 28. If the samples are outside of the mean requirement, the instrument shall require		

another complete breath test to be performed and will not print a breath test document on the samples that were outside of the mean.		

25. The instrument shall be equipped with multiple levels of security:
  a. Basic: The basic operator will have access to only the breath test and form printing capabilities of the instrument.
  b. Instructor: An instructor from the field shall have a higher security clearance allowing for training test to be performed on instrument without collecting all data.
  c. Solution Changer: There are individuals who are trained to change solutions within the agency. Those individuals are basic operators but shall be allowed to access the instruments solution changing features in order to comply with that task.
  d. Technician: The final layer of security shall be the level of a Technician who will have the responsibilities of Calibration, QAP, maintenance etc. There shall be no function that a technician cannot access from the above options.		

26. The instrument log in process will allow for both the ability to scan a permit/certification card and entry of a Personal Identification Number (PIN) as well as allow the entry of a log on name and password.		
27. At the 'Technician' security level, the instrument will provide adjustable threshold levels for interference detection (e.g. Acetone). If the instrument is Electrochemical Analytical in nature, this feature is not necessary.		
28. The instrument will minimize simulator testing time to reduce depletion of simulator standard and will provide the algorithm of sampling parameters for simulator standard acceptance.		
29. The instrument will allow for the sequential measuring of a selected number of breath samples from 1-20. Default settings (field options) will also be available and will remain at 2.		
30. The instrument will allow for the sequential measuring of a selected number of simulator		

Computing +/- 10% of the mean formula

Breath Samples of .140, .145 (I/R) and .140, .146 (E/C)

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 .140
 .145
 .140
+.146
 .571
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.571/4= .14275

MEAN= .1427(truncated)

.1427 multiplied by .9 = .128
.1427 multiplied by 1.1 = .156

All samples must fall within .128 and .156