

Test	1	2	3	4	5	6	7	8	9	10	Mean	SD	SE	Pass
{target BAC indicated in brackets}														
1. Precision and Accuracy														
{0.020}	0.021	0.022	0.021	0.021	0.020	0.021	0.021	0.020	0.021	0.021	0.021	0.0006	0.001	
{0.040}	0.042	0.042	0.043	0.042	0.042	0.042	0.042	0.042	0.043	0.041	0.042	0.0006	0.002	
{0.080}	0.083	0.080	0.081	0.083	0.082	0.081	0.081	0.082	0.081	0.082	0.082	0.0010	0.002	
{0.160}	0.161	0.160	0.160	0.160	0.158	0.160	0.160	0.160	0.160	0.161	0.160	0.0008	0.000	YES
{0.300}	0.311	0.310	0.313	0.310	0.312	0.313	0.311	0.312	0.312	0.312	0.312	0.0011	0.012	**
2. Acetone Interference	No testing required - Fuel cell sensor													
3. Blank Reading {0.000}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	YES*
4. Breath Sampling {0.080}														
0.2 Liters /sec.	0.080	0.079	0.080	0.080	0.079	0.080	0.080	0.079	0.080	0.080	0.080	0.0005	0.000	
0.3 Liters/sec.	0.080	0.080	0.081	0.080	0.080	0.081	0.082	0.080	0.081	0.080	0.081	0.0007	0.000	
0.5 Liters/sec.	0.082	0.081	0.081	0.080	0.081	0.081	0.080	0.080	0.081	0.081	0.081	0.0006	0.001	YES
5. Power {0.080}	No testing required - Battery operated													
6. Temperature {0.080}														
20 deg. C	0.081	0.080	0.080	0.079	0.080	0.080	0.080	0.081	0.080	0.081	0.080	0.0006	0.000	
30 deg. C	0.080	0.080	0.080	0.080	0.081	0.081	0.080	0.080	0.081	0.080	0.080	0.0005	0.000	YES
10 deg. C	0.080	0.080	0.079	0.078	0.081	0.078	0.080	0.079	0.080	0.080	0.080	0.0010	-0.001	***
35 deg. C	0.080	0.080	0.081	0.080	0.081	0.081	0.081	0.080	0.080	0.080	0.080	0.0005	0.000	***
7. Post Vibration {0.080}	0.081	0.080	0.081	0.080	0.080	0.079	0.080	0.080	0.081	0.080	0.080	0.0006	0.000	YES
8. Electrical Safety Insp.														YES

Units
 BAC: gm/210L Air
 SD: Standard Deviation
 SE: Syst. Error, Mean -target BAC

Requirements
 SD: 0.0042 or less
 SE: plus or minus 0.005 BAC or 5 % whichever is greater
 *No single result greater than 0.005 BAC
 **No requirement (information only)
 ***No requirement (information only for hand-held devices)

Evaluation data developed at DOT's System Center in Cambridge, MA on the Alco -Sensor FST leading to the approval of the instrument for the Conforming Products List in 2003.