

NC DAQ Source Test Observers Checklist - Particulate Testing EPA Methods 1-5 and 202

METHOD 202 - Determination of Condensable Particulate Emissions		Yes	No
202.1) CPM sampling train set-up per method? (also called "back half" of the sampling train; see diagram)			
	<ul style="list-style-type: none"> A. Method 23 Condenser with water bath B. Dropout Impinger (empty/cutoff stem) C. Modified Greenburg-Smith (GS) Impinger (empty, open tip) D. CPM Filter (nonreactive, polymer, etc.) E. Thermocouple (stainless steel encased, etc. in contact with gas stream?) F. Ice Bath G. Modified GS Impinger (100 ml water) H. Silica Gel Impinger (see 4.3 page 1) I. Exit Thermocouple (see 4.2 page 1) <p><i>Image Courtesy of the EPA (modified)</i></p>		
202.2) Glassware properly prepared before test? (soap & water, rinsed using tap water, DI water, acetone, and hexane, then bake at 300°C for 6 hrs.) Otherwise, a field train proof blank is required (not as common)			
202.3) CPM (or "ambient") filter maintained maintained > 65°F and ≤ 85°F during test run?			
REMARKS:			
202.4) Check reagent quality:			
A. Acetone - less than 1.0 ppmw (0.1 mg/100 g or 0.791 mg/l) residue mass			
B. Hexane - less than 1.0 ppmw (0.1 mg/100 g or 0.655 mg/l) residue mass			
C. Deionized, ultra-filtered water (DIUF) - contains 1 ppmw (1 mg/L) residue mass or less			
202.5) Check if blanks prepared and completed:			
A. Field train recovery blank completed? (mention that a maximum 2.0 mg correction is allowed)			
B. Field blanks prepared for DIUF water, acetone, and hexane?			
202.6) Post-run nitrogen purge (can be skipped if no water collected before CPM filter):			
	<ul style="list-style-type: none"> A. Purge required and conducted? B. H₂O transferred to backup (2nd) impinger? C. Ultra high purity (UHP) nitrogen used? D. 14 lpm (liters per minute) for one hour? E. Gas temp maintained > 65°F and ≤ 85°F? F. Does impinger tip extend below water level during purge? If not was DIUF H₂O added? <p><i>Image Courtesy of the EPA (modified)</i></p>		
202.7) Cleanup and sample recovery ("back half" - see page one for "front half" cleanup):			
A. Is test team catching all rinses in properly labeled containers?			
B. At end of run, was glassware after M5 filter and before CPM filter rinsed as follows: two rinses with DIUF, one acetone rinse, and two rinses with hexane?			
REMARKS:			
** DO NOT REJECT A TEST WITHOUT CONSULTING WITH THE STATIONARY SOURCE COMPLIANCE BRANCH. IF YOU HAVE TESTING CONCERNS, DISCUSS THEM IMMEDIATELY WITH THE TESTING COMPANY AND SSCB. **			

