PM10 and TSP inlets are out laboratory

10 µm

Line 1: 10 µm

TSP

Line 2: 16.7 lpm

M11

Q12 mfm

D21

N23 (UCPC)

M21

1 lpm

0.3 lpm

P22

N22 (APS)

Q23

P – Flow measure/control

Pd – delta pressure sensor

Critical orifice

M – Manifold/flow splitter

H – Heater

V – Vaisala T/RH sensor

D – Drier

Q – Flow measure/control

f – Filter

D24

P – Mass flow meter

fmm Mass flow meter

fmc Mass flow controller

M – Manifold/flow splitter

H – Heater

V – Vaisala T/RH sensor

D – Drier

Q – Flow measure/control

f – Filter

Pd – delta pressure sensor

(1) Laboratory is conditioned with RH< 40% and T=23ºC.

(2) T and RH is continuously measured inside laboratory.

SILICAL GEL DRYER

NAPHION DRYER

0.3 lpm

13.9 pm

NAPHION DRYER

Q22

3 lpm

2 lpm

SILICAL GEL DRYER

T/RH SENSOR FOR SHEATH FLOW (RH < 35%)

D23

V23

V23

1 lpm

A11 (CLAP)

Pump Z13

Compressor Z12

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