

Attachment 6: Participant Test Procedures

Test procedure for Specific Aim 1, Part 1 and Specific Aim 2, Parts 1-3:

<i>Participant Task</i>	<i>Time required (minutes)</i>
1) Arrive at NIOSH, sign in at Security desk and be escorted to lab.	10
2) Receive explanation of purpose of study.	5
3) Complete the pre-test questionnaire.	5
4) Read and sign the consent form.	5
5) Complete health questionnaire.	20
6) Receive explanation of test procedure. Ask any questions.	5
7) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	10
8) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and cough forcefully using as much of the air in the lungs as possible.	1
9) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	9
10) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and cough forcefully using as much of the air in the lungs as possible.	1
11) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	9
12) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and cough forcefully using as much of the air in the lungs as possible.	1
13) Receive incentive payment, sign out and depart NIOSH.	10
TOTAL TIME	91

Test procedure for Specific Aim 1, Parts 2, 3 and 4:

Please note that participants in Parts 2-4 are the same as the participants in Part 1; thus, these individuals have already filled out the pre-test questionnaire, health questionnaire and consent form, and will not need to do so again for these tests. For Parts 2 and 3, participants will be tested once. For Part 4, participants will be tested twice.

<i>Participant Task</i>	<i>Time required (minutes)</i>
1) Arrive at NIOSH, sign in at Security desk and be escorted to lab.	10
2) Receive explanation of test procedure. Ask any questions.	5
3) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	12
4) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
5) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
6) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
7) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
8) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
9) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
10) Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
11) Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1

12)	Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
13)	Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
14)	Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
15)	Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
16)	Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
17)	Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
18)	Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
19)	Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
20)	Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
21)	Sit with head inside a HEPA-filtered air cabinet and breathe normally.	1
22)	Exhale completely, inhale as much as possible, seal lips around a disposable cardboard mouthpiece, and breathe or cough forcefully using as much of the air in the lungs as possible.	1
23)	Receive incentive payment, sign out and depart NIOSH.	10
	TOTAL TIME	56