



German Environmental Survey for Adults

Note: This document specifies the content and wording of the interview. As this is a CAPI interview (computer-assisted personal interview), layout divergences may occur for technical reasons.

VOC (Chemical Pollutants of Indoor Air) Interview and Documentation

IDNR of participant	
Date of interview	. .20 <i>Programming note: show date automatically</i>
Interviewer no.	

Questions with a coloured background and in blue font: the questions in blue font and in the fields with a grey background are addressed to the interviewer and are not read out to the respondent.

Sample Selection

V01. Has an age-group household already been recruited for the programme in [Point]?

Programming note: show the applicable age group and even answer the question if necessary.

18-49 ☐ Yes ☐ → End No ☐

50-79 ☐ Yes ☐ → End No ☐

☐ Yes, nevertheless perform VOC measurement

V02. From the interviewer's perspective, is the participant able to implement the programme correctly?

Yes ☐ No ☐ → No sampling takes place

Implementation Prerequisites

V03. Do you agree to **samples of indoor air pollutants being taken in your home and that the collectors required for this purpose are installed in the room where you spend the most time?**
To interviewer: please briefly describe the programme.

To collect chemical pollutants of indoor air, various passive collectors will be installed for a period of about one week in the room where the respondent spends the most time during the 24 hours of any one day (cf. V6a). Sample collection is a passive process, hence the name passive collector. Hygienically speaking, sampling is entirely harmless. No noise is generated and no electricity is consumed. In 25% of households, 2 so-called double-sample collectors of each collector type are mounted and PE field blank samples are taken for quality assurance purposes. A data logger is also installed to record room temperature and humidity.

Yes ☐ No ☐ → No sampling takes place

Before I can install the passive collectors in your home, I would like to clarify a few prerequisites with you.

V04. Is **somebody from your household at home for about a week from now (minimum 5 days, maximum 8 days) who can fill in the questionnaire and take down, pack, and dispatch the sampling equipment?**

Yes ☐ No ☐ → No sampling takes place

V05. Do you intend to **travel for more than two days within this 5- to 8-day sampling period?**

To interviewer: the interviewee should generally not travel during the sampling period. If "only" over the weekend or only for 2 days, this is not a problem as far as collection is concerned.

No ☐ Yes ☐ → No sampling takes place

V06. Is any **renovation work planned in [this apartment/house] during the 5- to 8-day sampling period?**

No ☐ Yes ☐ → No sampling takes place

V6a) In which room [of the apartment/house] do you usually spend **the most time during the 24 hours of any one day?**

Programming note: show apartment or house and cross-check plausibility in relation to question B07 in the basic interview.

To interviewer: response determines the room where the indoor air samplers are placed.

Bedroom ☐

Living room ☐

Combined living/ sleeping area (e.g. in a studio apartment) ☐

Other room, please specify: ☐

don't know ☐ no sampling takes place

declined to respond ☐ no sampling takes place

Installation of the passive collectors in the room where the respondent spends the most time during the 24 hours of any one day (cf. question V06a).

Before VOC sampling, please have the following materials ready:

- Demonstration bag with contents
- Shipping bag, stamped and addressed with the following contents:
 - 1 rectangular UMEX-100 collector in aluminium foil bag
 - 1 field blank sample UMEX-100 collector in aluminium foil bag
 - 1 tube-shaped PE collector in aluminium foil bag
 - 1 data logger
 - String, hook for mounting the passive collectors
- Reminder sheet with date field to return the passive collectors
- Self-completion questionnaire
- Information sheet incl. instructions for the user on handling the passive collectors
- List booklet (renovation, floor, wall and ceiling coverings)
- Scissors
- Labels

To interviewer: a field blank sample must be taken for each UMEX-100 collector installed. The field blank samples are stored in the shipping bag. The shipping bag should be kept in this room.

VOC Sampling Programme Preparations

V07. Have you carried out all preparations in accordance with the guidelines?

- All collectors feature IDNR label with collector-specific suffix 'UF'; 'UT'; 'PT'.
- UMEX field blank sample is placed in the shipping bag in the compartment labelled field blank sample.

No ☐



Please rectify

Yes ☐

V08. Has household been selected for quality assurance purposes – in the interviewer's assessment?

No ☐



continue with question V10

Yes ☐

V09. Have you carried out all preparations in accordance with the guidelines?

- Further PE collector is labelled as a field blank sample featuring an IDNR label with the collector-specific suffix 'PF'.
- PE field blank sample is placed in the shipping bag in the compartment labelled field blank sample.
- Further PE collector is labelled as a double-sample featuring an IDNR label with the collector-specific suffix 'PD'.
- Further UMEX collector is labelled as a double-sample featuring an IDNR label with the collector-specific suffix 'UD'.

No ☐



Please rectify

Yes ☐

V10. Enter the 3-digit number of the data logger.

V10a) Enter the 3-digit number of the data logger again.

V11. Have you explained the procedures to the participant?

No ☐



Please rectify

Yes ☐

V12. Has the participant been given the instructions / information sheet?

No ☐



Please rectify

Yes ☐

Installing the collectors and setting up the data logger

- V13.** Have you installed all collectors and the data logger in accordance with the guidelines?
- Data logger is set up and switched on
 - UMEX collector: slider is open and collector is installed
 - On the PE collector, the brass-coloured screw joint on the clip side has been replaced with the silver-coloured diffusion cap (head section).
 - The PE collector's removed screw joint has been inserted into the foil bag for storage.
 - PE collector is installed

No ☐

Please rectify

Yes ☐

- V14.** **Programming note: if response to V08 is yes (QS household), then continue with this question, otherwise continue with V15.**
- Have you installed all collectors for QA purposes in accordance with the guidelines?

- 2nd UMEX collector: slider is open and collector is installed.
- On the 2nd PE collector as a double sample, the brass-coloured screw joint on the clip side has been replaced with the silver-coloured diffusion cap (head section).
- The 2nd PE collector's removed screw joint has been inserted into the foil bag for storage.
- 2nd PE collector is installed
- 3rd PE collector is treated as field blank sample

No ☐

Please rectify

Yes ☐

- V15.** Please note the time that **sampling starts** (details to the nearest 15 mins.).

To interviewer: installation of the collectors and the data logger for recording temperature and humidity takes less than 15 minutes, therefore the time applies to all collectors and the data logger.

Time

 :

Programming note: transfer the time and date of the start of sampling to the "blue bag" EDF in the UBA view.

V16. Transfer the **intended sampling finish date** to the return reminder sheet.

To interviewer: this information is important so that the interviewee can be reminded by telephone!

				20		
Day		Month		Year		

V17. Have you **transferred** this **date** to the **return reminder sheet** and explained and handed over the **return reminder sheet** to the participant?

No ☐ → Please rectify Yes ☐

If required, we would like to send you an SMS as a reminder to take down the passive collectors. Please give me your current mobile phone number for this purpose!

To interviewer: please check the current **mobile phone number(s)** and correct or add if necessary.
Programming note: display all phone numbers from the history log EDF (contact phase tab) here and offer correction/supplement options, which are then also transferred to the EDF.

V18. Did you **label the self-completion questionnaire with the IDNR label plus PP suffix** and explain and hand over the **self-completion questionnaire** to the participant?

No ☐ → Please rectify Yes ☐

-end of documentation-

Interview - VOC Sampling Programme

V19. When was this room last renovated?

To interviewer: Please present list V19.

In the last 4 weeks ☐

More than 1 to 6 months ago ☐

More than 6 months to 2 years ago ☐

More than 2 years ago ☐

don't know ☐

declined to respond ☐

V20. Next, we would like to know what floor coverings are to be found in this room.

To interviewer: present list V20, enter a tick in each line!

Textile flooring (product with a wear layer made of textile fibres) means carpeting, fitted carpets, carpets (one large carpet) and individual carpet tiles of different sizes. The backing of this type of flooring consists either of a foam/synthetic back (=soft rubber back) or the flooring has a secondary textile back (=other fabric on the back). For runners, rugs or other carpets (doormats, bathroom mats are **not** to be considered), synthetic underlays are often used to prevent them from sliding and to avoid ripples. This is usually made of polyester fleece or very soft, thin synthetic mesh. **Parquet** is flooring made of wood (e.g. hardwood) that is sawn into small pieces and put together according to certain patterns. **Floorboards** are a wooden floor made of wide and long solid wood elements, often in room lengths. If the wood surface is paint- or varnish-sealed, tick "coated". When oiling the wood, the wood fibres of the surface are impregnated with oil without forming a layer on the wood. In this case, tick "treated". Staining is the treatment of the surface using a stain. The aim of staining can be to change the colour tone or to protect the surface against mould. In this case, also tick "treated". Ask about floorings in this room. Enter screed or concrete without any other flooring under "other floorings".

Please record all types of flooring, including those covered with carpets or similar.

V20

	yes	no	d.k.	sequence changed
Textile flooring such as carpeted floor/carpet tiles, carpets, runners, rugs	☐	☐	☐	
Do these textile floorings have a foam/plastic back ?	☐	☐	☐	
Do these textile floorings have a plastic underlay ?	☐	☐	☐	
Other flooring , please specify:				
<u>To interviewer:</u> "Other flooring" means non-textile, especially wipeable floors.				
Wooden parquet	☐	☐	☐	
a) coated (e.g. with varnish)	☐	☐	☐	
b) treated (stained, oiled, waxed)	☐	☐	☐	
c) untreated	☐	☐	☐	

		V20		
		yes	no	d.k.
Wooden floorboards		☐	☐	☐
.....				
a) coated (e.g. with paint)		☐	☐	☐
b) treated (stained, oiled, waxed)		☐	☐	☐
c) untreated		☐	☐	☐
Laminate		☐	☐	☐
PVC, vinyl laminate		☐	☐	☐
Linoleum		☐	☐	☐
Tiles, stone floors, marble, tiles, ter-razzo		☐	☐	☐
Cork		☐	☐	☐
OSB/USB panels		☐	☐	☐
Other floor coverings, please specify:		☐	☐	☐

				declined to respond ☐

V21. What visible wall coverings are to be found in this room?

To interviewer: please present list V21. If the wood surface is varnish-sealed, tick "coated". If the wood is oiled, the wood fibres of the surface are impregnated with oil without forming a layer on the wood. In this case, tick "treated". Staining is the treatment of the surface with a stain. The aim of staining can be to change the colour tone or to protect the surface against mould. In this case, also tick "treated".

		yes	no	don't know
Wall <u>without paint</u>		☐	☐	☐
Wall <u>with paint</u>		☐	☐	☐
Textile wallpaper, textile cover, fabrics or carpets		☐	☐	☐
Plastic wallpaper, housing, panels, PVC coatings, styrofoam		☐	☐	☐
Washable paint, oil paints, coatings		☐	☐	☐
Wall tiles, tiles, natural stone, glass block		☐	☐	☐
Wood, wood panelling		☐	☐	☐
If "Yes" is ticked...				
a) coated (e.g. with varnish)		☐	☐	☐
b) treated (stained, oiled, waxed)		☐	☐	☐
c) untreated		☐	☐	☐
Other wall coverings, please specify: _____		☐	☐	☐
				declined to respond ☐

V22. What visible ceiling coverings are to be found in this room?

To interviewer: please present list V22. If the wood surface is varnish-sealed, tick "coated". If the wood is oiled, the wood fibres of the surface are impregnated with oil without forming a layer on the wood. In this case, tick "treated". Staining is the treatment of the surface with a stain. The aim of staining can be to change the colour tone or to protect the surface against mould. In this case, also tick "treated".

	yes	no	don't know
Ceiling <u>without paint</u>	☐	☐	☐
Ceiling <u>with paint</u>	☐	☐	☐
Textile wallpaper, textile cover, fabrics or carpets.....	☐	☐	☐
Plastic wallpaper, housing, panels, PVC coatings, styrofoam.....	☐	☐	☐
Washable paint, oil paints, coatings.....	☐	☐	☐
Ceiling tiles, tiles, natural stone, glass block	☐	☐	☐
Wood, wood panelling	☐	☐	☐
If "Yes" is ticked			
a) coated (e.g. with varnish)	☐	☐	☐
b) treated (stained, oiled, waxed)	☐	☐	☐
c) untreated	☐	☐	☐
Other ceiling coverings, please specify: _____	☐	☐	☐
			declined to respond ☐

V23. Most modern furniture, e.g. cupboards, shelves, smaller items of furniture, is no longer made of solid wood but of pressed chipboard. When you think about the furnishings in this room, is there no, some or rather a lot of pressed chipboard furniture in this room?None ☐Some ☐Rather a lot ☐don't know ☐declined to respond ☐**V24. Are there pieces of solid wood furniture in this room? Please also include pine shelves.**No ☐

☞ End of interview

don't know ☐declined to respond ☐ ☞ End of interviewYes ☐*Programming note: follow filter guide.*

V25. Is the wood coated, treated or untreated...?

To interviewer: multiple answers possible. If the wood surface is varnish-sealed, tick "coated". If the wood is oiled, the wood fibres of the surface are impregnated with oil without forming a layer on the wood. In this case, tick "treated". Staining is the treatment of the surface with a stain. The aim of staining can be to change the colour tone or to protect the surface against mould. In this case, also tick "treated".

	yes	no	don't know
a) coated (e.g. with varnish)	☐	☐	☐
b) treated (stained, oiled, waxed)	☐	☐	☐
c) untreated	☐	☐	☐

declined to respond ☐

-end of interview-