To: Rose, Donna[dlrose@usgs.gov]; Foreman, William[wforeman@usgs.gov]
Cc: Warner, Sue[Warner.Sue@epa.gov]; Zawodny, Peggy[Zawodny.Peggy@epa.gov]; John Zogorski[jszogors@usgs.gov]; Duane Wydoski[dwydoski@usgs.gov]; Lucinda Murtagh[lmurtagh@usgs.gov]; David Reppert[dreppert@usgs.gov]
From: Caporale, Cynthia
Sent: Fri 1/24/2014 10:55:04 PM
Subject: RE: purge conditions

Donna and Bill,

That is good news and thank you very much for sharing your operating conditions. If you run the actual samples using full scan maybe you can see if the PPH compounds show up. We are testing PPH by P&T on Monday.

Cindy

Cynthia Caporale, Chief
OASQA Laboratory Branch
U.S. EPA Region III
Environmental Science Center
Fort Meade, MD
(410) 305-2732
Fax: (410) 305-3095

From: Rose, Donna [mailto:dlrose@usgs.gov]
Sent: Friday, January 24, 2014 4:55 PM
To: Foreman, William
Cc: Warner, Sue; Caporale, Cynthia; Zawodny, Peggy; Donna Rose; John Zogorski; Duane Wydoski; Lucinda Murtagh; David Reppert
Subject: Re: purge conditions

Typo on the compound name- should be 4-methyl-1-cyclohexanemethanol.

Donna

On Fri, Jan 24, 2014 at 2:39 PM, Rose, Donna <dlrose@usgs.gov> wrote:
Hi Everyone

I got the standard in for 4-methyl-1-cyclohexanemethane and ran a 50 ug/L standard on my system. The mass spec is in full scan/sim simultanous mode. The operating conditions are listed in the attached excel file.

I got two peaks, one at 23.514 minutes and one at 24.094 minutes. Both matched the NIST

Ex. 5 - Deliberative

support to see if they had additional information on the percentages of each isomer.

The response is beautiful in the full scan mode. The second peak is slightly bigger than the first but not by much. The two peaks at the end of the chromatogram are the MCHM isomers.

full scan data file

Donna Rose, Chemist
U. S. Geological Survey
303-236-3283

On Thu, Jan 23, 2014 at 3:19 PM, Foreman, William <wforeman@usgs.gov> wrote:
Sue,
Thanks for the info and call. We'll let you know how it goes for us.
Bill

On Thu, Jan 23, 2014 at 2:36 PM, Warner, Sue <Warner.Sue@epa.gov> wrote:
Recommended Operating Conditions for Purge and Trap Apparatus for Volatiles in Soil Analysis (Low Level) Using the Archon Autosampler

Operating Parameter	Setting
Sample Type	Soil
Sample Volume	5 or 10 mL (adds 5 or 10 mL: 10 mL for samples and blanks and 5 mL for standards and spikes)
Rinse Volume	25 mL
Number of Rinses	2
Standard 1	Yes
Standard 2	No
Soil Preheat Stir	Yes
Stir	Yes
Syringe Flushes	2
Preheat	Yes

Preheat Temperature	40 °C
Preheat Time	1.5 min.
Purge Time	11.0 min.
Desorb Time	2.0 min
Operational Mode	Remote
Cycle Timer	38.3 min
Aux Time	0.0 min
Purge Gas Pressure	20 psi
Flow	35-40 mL/min

The trap used is a VOCARB 3000.

From: Caporale, Cynthia
Sent: Thursday, January 23, 2014 4:18 PM
To: Warner, Sue; Zawodny, Peggy
Subject: FW: purge conditions

FYI – feel free to speak to the voc analyst directly or if you want a conference call I'd be willing to help set one up.

From: Foreman, William [mailto:wforeman@usgs.gov]
Sent: Thursday, January 23, 2014 4:10 PM
To: Caporale, Cynthia
Cc: Donna Rose; William Foreman
Subject: purge conditions

Hi Cindy,
I'd appreciate your checking with your P&T analyst regarding the following conditions used:
purge temp
purge time
purge volume
type of trap

I've cc'd our lead VOC analyst, Donna Rose. If your analyst has time for a brief call today or tomorrow, please have them call Donna at 303-236-3283. Or we can set a time and do it as a conference call.

If you happen to have any handy details about the ERT mobile lab's method, that would be helpful.

We greatly appreciate the help/guidance!
Bill

William T. Foreman, Ph.D.
Research Chemist
Methods Research and Development Program
U.S. Geological Survey
National Water Quality Laboratory
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Denver, CO 80225-0585
{For Fedex, delete Box number and add Bldg. 95, Entrance E3}
303-236-3942; FAX: 303-236-3499
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