Vapor Intrusion and Mitigation Activities Report Annual 2021

Signetics Site
Sunnyvale, California

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Date Published: 1 March 2022

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3/1/2022

J. Wesley Hawthorne

Date

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LIST OF ACRONYMS AND ABBREVIATIONS

ACRONYM	DESCRIPTION
1,1,1-TCA	1,1,1-trichloroethane
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
ASAOC	Administrative Settlement Agreement and Order on Consent
cis-1,2-DCE	cis-1,2-dichloroethene
COC	Chemicals of Concern
EPA	United States Environmental Protection Agency
GAC	Granular Activated Carbon
Locus	Locus Technologies
O&M	Operations and Maintenance
PCE	tetrachloroethene
Philips	Philips Semiconductors Inc.
SSDS	Sub-Slab Depressurization System
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
VI	Vapor Intrusion
VI Activities Report	Vapor Intrusion and Mitigation Activities Report
VOCs	Volatile Organic Compounds

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1. Introduction

Locus Technologies (Locus) has prepared this Vapor Intrusion (VI) and Mitigation Activities Report (VI Activities Report) for the Signetics Site located in Sunnyvale, California (Figure 1) to document VI-related work activities and mitigation performed under the Administrative Settlement Agreement and Order On Consent (ASAOC) For Focused Feasibility Study, Removal Site Evaluation And Removal Action (EPA, 2019), as agreed upon by Philips Semiconductors Inc. (Philips) and the United States Environmental Protection Agency (EPA). The ASAOC scope of work requested and provides guidance on procedures regarding VI evaluation and procedures for action, if necessary, on the levels of trichloroethene (TCE) and other chemicals of concern (COCs) at occupiable spaces of the Signetics Site. This annual VI Activities Report was prepared in accordance with the 29 May 2020 Vapor Work Plan Section 6.2.3 (Locus, 2020a).

The VI study area for the Signetics Site is defined as the boundary for the four commercial properties that were formerly operated by Signetics, now Philips, and functioned as semiconductor fabrication and testing facilities and office space buildings (Figure 2). These commercial buildings are 811 East Arques Avenue (811 Arques), 440 North Wolfe Road (440 Wolfe), 815 Stewart Drive (815 Stewart), and 830 Stewart Drive (830 Stewart). The following section describes activities performed at each commercial building in 2021.

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2. Summary of Vapor Intrusion Work Activities

2.1 811 Arques

Before each indoor air VI activity, the various contacts were sought for the 811 Arques property for access and scheduling. A summary of 2021 contact dates and topics are below:

- On 9 June and 22 June, the Senior Real Estate Manager of the 811 Arques property was contacted regarding access for a VI building survey.
- On 1 July, 12 August, and 30 September, the Senior Real Estate Manager was contacted regarding access for a VI building survey.
- On 10 October, the Real Estate Manager and Engineer for the 811 Arques property was contacted regarding scope and access for the building survey.
- On 6, 7, 20, and 22 December, the Store Manager was contacted to schedule the building survey.

Locus obtained building plans and layout figures from the archives of the City of Sunnyvale for use of the VI building survey which was scheduled for 15 February 2022.

No VI activities were performed within the building at 811 Arques during 2021. A portion of the Outdoor Air Investigation that occurred on the 811 Arques property is discussed in Section 2.5.

2.2 440 Wolfe

Before each indoor air VI activity, the property manager, namely the Director of Operations, at 440 Wolfe was contacted for access and scheduling. A summary of 2021 contact dates and topics are below:

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- On 25 January, the Director of Operations was contacted to schedule the winter indoor air sampling event.
- On 8 February, the Director of Operations was contacted to regarding use of the parking lot for the outdoor air investigation.
- On 5 January, 24 February, 22 March, 22 April, and 11 May, the Director of Operations was contacted to schedule the monthly influent and effluent air purification sampling.
- On 13 May, and 3 June the Director of Operations was contacted to schedule ac cess regarding VI confirmation sampling.
- On 3 June and 8 June, the Director of Operations was contacted with previous VI results and a request for a site visit to discuss sample results and next steps.
- On 10 June, Locus conducted a site visit to review previous VI results and discussed a potential pathway discovered in the basement. Locus also requested confirmation sampling and discussed potential mitigation options. The Director of Operations contacted Locus with additional information regarding the pathway and response to potential future mitigation.
- On 11 June and 15 June, the Director of Operations was contacted to schedule VI confirmation sampling.
- On 2 July, 22 July, 5 August, and 16 August the Director of Operations was contacted to approve and schedule pre-emptive mitigation activities. Pre-emptive mitigation was scheduled for 24 August.
- On 29 November and 2 December, the Director of Operations was contacted to schedule the winter indoor air sampling event.

2.2.1 Winter Indoor Air Sampling Event

On 10 February 2021, the winter indoor air sampling event was conducted and samples were analyzed according to the procedures described in the Vapor Work Plan (Locus, 2020a)

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and Building-Specific Work Plan Addendum for 440 Wolfe (Locus, 2020b). Nineteen ambient air and pathway samples were collected from eleven select sample basement locations and eight sample locations from the first floor at 440 Wolfe as seen in Figures 3 and 4, respectively. The sample results from the 10 February winter indoor air sampling event can be found in Table 1. All sample results were found to be below indoor air evaluation criteria for accelerated response action level 21 µg/m^3 for TCE. All sample results exceeded corresponding outdoor air sample results for TCE (Tier 1 criteria) for the floor that the samples were located on. None of the sample results exceeded the short-term mitigation action levels (Tier 2 criteria) for any COC which would require a short-term response. Three of the nineteen results exceeded the long-term mitigation action level (Tier 3 criteria) and pre-emptive mitigation criteria for TCE. The three samples, PNPBAS-AMB-1, PNPBAS-PATH-4, and PNPBAS-PATH-5 were located in the basement server room. This sampling event also served as a confirmation sampling event for elevated samples collected during the Operations and Maintenance (O&M) sampling event on 8 December 2020 (Locus, 2021a) at locations PNPBAS-AMB-1, PNPBAS-PATH-4, and PNPBAS-PATH-5. Further investigation and pre-emptive mitigation activities concerning these locations in the basement server room are discussed in Sections 2.2.3 and 2.2.4, respectively.

Locus was notified by the analytical laboratory on 2 March that the Radiello sampler from location PNPBAS-AMB-5 was compromised and had leaked sorbent from the cartridge. A resampling event was completed on 24 March. The sample results are included in Table 1. While above the basement outdoor air sample result for TCE (Tier 1 criteria), the sample result for location PNPBAS-AMB-5 did not exceed any other action levels for any COC. Historical indoor air results at 440 Wolfe can be found in Appendix A. Lab reports of the air sample results can be found in Appendix B.

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2.2.2 440 Wolfe Carbon Drum Effectiveness Evaluation

Influent and effluent sampling of the granular activated carbon (GAC) air purification system occurred monthly for a total of six months following the GAC filter changeout on 10 November 2020. The first influent and effluent sampling event occurred on 8 December 2020 and was discussed in the 2020 Vapor Intrusion and Mitigation Activities Report (Locus, 2021a). The final five monthly influent and effluent sampling events occurred on 7 January, 10 February (coinciding with the annual winter indoor air sampling event), 10 March, 7 April, and 12 May 2021.

Sampling events that occurred on 7 January, 10 February, and 10 March were collected using passive Radiello samplers and analyzed using USEPA Method TO-17 as prescribed in the Building-Specific Work Plan Addendum for 440 Wolfe (Locus, 2020b). However, based on initial review of the sample results and a discussion with the analytical laboratory, these results from passive air samplers overestimated the actual air concentrations, since passive samplers are not designed for sampling within an air stream. The quantification of concentration from the passive samplers assumes minimal air flow driven only by diffusion into the device. By placing the sampling device within an air stream, it comes into contact with a much larger volume of air and therefore the accumulated chemical mass is inflated. Thus, the 7 April and 12 May monthly sampling events of the influent and effluent were collected using both six-liter Summa passivated canisters with 24-hr flow controllers and analyzed using USEPA Method TO-15 (SIM) by Eurofins Air Toxics and passive samplers for comparison. Influent sample results collected by the Summa canisters were 4.6 and 4.3 $\mu g/m^3$ for TCE in 7 April and 12 May, respectively, as compared to the corresponding results collected by passive samplers of 9.3 and 18 $\mu g/m^3$ TCE. The potential bias of passive sampling devices in air streams, and the proposed use of summa canisters for this type of sample were discussed with EPA and described in the VI Activities Reports for the First and Second Quarter 2021.The ambient (PNPBAS-AMB-1) concentrations

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(collected using passives, but not in an airstream) were 5.5 and 6.3 µg/m³ for TCE in 7 April and 12 May (Table 1). Thus, the relatively comparable influent concentration indicates that Summa canisters are more representative of the conditions in the air stream of the air purifier.

The influent and effluent sampling results of the GAC air purification system can be found in Table 2. The action levels and pre-emptive mitigation criteria are omitted from Table 2 because the influent and effluent samples are not representative of ambient or pathway conditions, rather, these samples will be used to monitor and evaluate the effectiveness of the filter or breakthrough of the air purifier. Influent sample results (PNPBAS-GAC-1) using passive samplers and analyzed by USEPA Method TO-17 ranged from 4.3 to 18 µg/m³ concentrations of TCE. Effluent sample results (PNPBAS-GAC-2) ranged from below detection concentrations to 4.5 µg/m³ for the corresponding sampling dates. Influent sample results using Summa canisters and analyzed by USEPA Method TO-15 (SIM) ranged from 4.3 to 4.6 µg/m³ concentrations of TCE. Effluent samples results were below detection concentrations for TCE for the corresponding sampling dates. The lower TCE concentrations at the effluent in comparison with the influent indicate effective reduction in TCE by the GAC air purification system. The evaluation of the GAC air purification system and any recommendations will be made in the future ASAOC milestone report, Report on Evaluation of Indoor Air and Recommendations.

2.2.3 440 Wolfe Additional VI Investigations

Prompted by confirmed elevated results from the 10 February winter indoor air sampling event, additional investigations of the basement server room area were conducted from April – June. The objective of the additional VI investigations was to identify potential migration pathways or sources that may be contributing to the ambient TCE concentration in the server

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room. Where applicable, sampling procedures were conducted in accordance with the Vapor Work Plan, although the sampling events were not required by the plan.

On 7 April, a sampling event was conducted using a calibrated portable gas chromatograph and photoionization detector, the FROG-5000 from Defiant Technology (FROG). The FROG was used as a screening tool to identify the locations followed by Summa canister sampling where applicable. Sixteen locations were analyzed for TCE by the FROG in and adjacent to the server room as listed in Table 3 and seen in Figure 3. Six locations were detected by the instrument, however only one location was above the FROG reporting limit of 5.2 µg/m^3. This location, which was named PNPBAS-PATH-11, was a sample taken from below a utility cover located outside the server room wall. Pictures are displayed in a photo log in Appendix C. Based on the screening result, PNPBAS-PATH-11 was identified as a potential pathway for further investigation. The chromatographs generated by the FROG for the six locations can be found in Appendix D.

A grab sample at PNPBAS-PATH-11 potential pathway location was collected soon after the screening on 8 April using a six-liter Summa canister and analyzed using USEPA Method TO-15 (SIM). The grab sample TCE concentration was 2.6 µg/m^3. During the 8 April sampling event, passive samples were used to evaluate VOC concentrations in the server room, PNPBAS-AMB-1. Based on elevated 10 February TCE concentrations at PNPBAS-AMB-1, samples were collected at PNPBAS-PATH-4 to investigate the ventilation intake as a potential pathway. Air samples at this location were collected using a six-liter Summa canister as well as a passive sampler to evaluate effective capture of VOC concentrations in the event of an air stream presence caused by the ventilation system. The TCE sample results were 0.19 µg/m^3 collected by the Summa canister and 4.5 µg/m^3 collected by passive sampler. Background sample at outdoor location PNPOFF-OUT-1 was also collected. Results were all found to be below indoor air evaluation criteria for accelerated response action level of 21 µg/m^3.

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Because the potential pathway sample identified in the 7 April investigation was a grab sample (PNPBAS-PATH-11), additional Summa canister sampling using a 24-hr flow controller was conducted of that location on 12-13 May to ensure results were comparable. A new ambient sample location, PNPBAS-AMB-8, was also created to characterize the ambient air at breathing level above the potential pathway, PNPBAS-PATH-11. As seen in Table 1, the TCE concentration for PNPBAS-PATH-11 was elevated above the outdoor air concentration (Tier 1), the long-term mitigation criteria (Tier 3), and the short-term mitigation criteria (Tier 2), thus prompting confirmation resampling under the Vapor Work Plan. The ambient air TCE concentration above this pathway, PNPBAS-AMB-8, was below the long-term mitigation criteria. Per the Vapor Work Plan, the property manager was notified of the results and of the potential need for mitigation on 3 June 2021.

On 10 June 2021, Locus met with the 440 Wolfe Director of Operations and visited the basement areas under investigation. Locus showed the utility cover pathway located outside the server room (PNPBAS-PATH-11), discussed results and confirmation sampling, and proposed sealing the pathway assuming the concentrations would be confirmed. The Director of Operations indicated she would have to check with the building engineer on the purpose of the utility before agreeing to the sealing. Later that day, the Director of Operations reported that the utility outside the server room was a cleanout that could not be sealed but said additional investigation under the floor tile was possible along with confirmation sampling. The server room was also toured during the site visit with the Director of Operations and results discussed. Because of the ambient air concentrations in the server room, Locus recommended an additional investigation under the floor tile to check for pathways (the floor tile is elevated above the subfloor to allow for air circulation).

On 16-17 June, confirmation sampling of PNPBAS-PATH-11 in the 440 Wolfe basement was conducted using six-liter Summa passivated canisters with 24hr flow controllers and analyzed

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using USEPA Method TO-15 (SIM). Samples were also collected at the accompanying ambient breathing level location PNPBAS-AMB-8 to capture relevant exposure point TCE concentrations immediately near this potential pathway. Sample results confirmed elevated TCE concentrations observed at PNPBAS-PATH-11 and lower concentrations at PNPBAS-AMB-8 from the 12 May event as seen in Table 1.

During the 16-17 June sample event, an investigation of the floor under the server room tile was conducted. Several tiles were lifted by 440 Wolfe maintenance staff while Locus personnel inspected for potential cracks and pathways. Notes on the inspected areas can be seen in the field notes in Appendix E. This investigation revealed an unsealed coring through the foundation slab for an electrical ground which may be considered a new potential pathway. A picture can be seen in Appendix C photo log. This potential pathway may have contributed to the TCE concentrations at PNPBAS-AMB-1 that are above the long-term mitigation criteria. Pre-emptive mitigation was selected to address this potential pathway and is described in Section 2.2.4. No other large cracks or significant conduits through the foundation slab were seen during the floor inspection.

2.2.4 440 Wolfe Pre-Emptive Mitigation

The additional VI investigation performed on 16-17 June indicated potential VI pathways into the basement of 440 Wolfe at two locations; an unsealed coring through the foundation slab for an electrical ground rod in the server room and at a system cleanout utility at location PNPBAS-PATH-11. Sampling results of the cleanout utility confirmed TCE concentrations were above the long-term mitigation criteria (Tier 3) and the short-term mitigation criteria (Tier 2), as well as the outdoor air concentration (Tier 1). Based on the results and in accordance with the Vapor Work Plan (Locus, 2020a), short-term interim mitigation was conducted at the cleanout utility. In addition, the electrical coring in the server room was selected for pre-emptive mitigation.

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On 24 August, Locus personnel conducted mitigation by sealing the conduits. Sealant materials were selected based on non-interference with future indoor air sampling techniques, specifically to avoid sealants containing COCs for the Signetics site. As seen in a photo log of the pre-emptive mitigation Appendix F, expanding foam sealant (Great Stuff™ Gaps and Cracks Insulating Foam Sealant) was applied to the perimeter of the cleanout utility, leaving the cleanout pipe accessible for future use. In addition, Loctite® Clear Silicone Sealant was applied to the rim and center opening of the cleanout utility lid to create a seal that may be broken should access be necessary in the future. The electrical ground rod coring in the server room was sealed with the same foam sealant (Great Stuff™ Gaps and Cracks). An additional open small diameter pipe was found located near the PNPBAS-PATH-11 location and was also sealed with the foam sealant out of an abundance of caution. Sealed locations can be seen in Figure 3. Post-mitigation sampling was selected to coincide with the winter indoor air sampling event and locations associated with this mitigation effort and is described in Section 2.2.5. This evaluation, mitigation, and additional recommendations, if any, will be included in the future ASAOC milestone report: Report on Evaluation of Indoor Air and Recommendations.

2.2.5 O&M Inspection and Winter Indoor Air Sampling Event

On 16-17 December, the O&M inspection and winter indoor air sampling event was conducted and samples were analyzed according to the Vapor Work Plan (Locus, 2020a) and Building-Specific Work Plan Addendum for 440 Wolfe (Locus, 2020b) with minor modifications. These modifications included: the addition of two sample locations for the evaluation of pre-emptive mitigation activities performed on 24 August; and the sample collection method of six-liter Summa passivated canister with 24-hr flow controllers and analyzed using USEPA Method TO-15 (SIM) at location PNPBAS-PATH-4. Twenty-one ambient air and pathway samples were collected with thirteen sample locations from the basement and eight sample

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locations from the first floor as seen in Figures 3 and 4, respectively. The sample results from the 16 December winter indoor air sampling event can also be found in Table 1.

All sample results were found to be below indoor air evaluation criteria for accelerated response action level 21 µg/m^3 for TCE. Ten of the thirteen basement floor sample results exceeded the basement outdoor air sample results for TCE (Tier 1) while none of the first floor samples exceeded the corresponding first floor outdoor air sample result. None of the sample results exceeded the short-term mitigation action levels (Tier 2) for any COC which would require a short-term response. Of the ten samples collected from the basement that exceeded the Tier 1 criteria, two sample results also exceeded the long-term mitigation criteria (Tier 3): locations PNPBAS-AMB-1 and PNPBAS-PATH-5. In accordance with Section 5.4 of the Vapor Work Plan, confirmation sampling will be conducted to investigate these results further (Locus, 2020a).

The O&M inspection included observations on the condition of the air purification system, a measurement of vacuum drawn at the inlet (see Table 4), and observations of the basement foundation and the presence of any cracks or potential vapor intrusion pathways. Historical vacuum measurements can be found in Appendix G. Per the vacuum, the air purification continues to operate and draw air and appeared in good working order. No anomalies or findings of poor conditions that would necessitate corrective action were observed. No new or growing basement cracks were noted during the inspection of the foundation slab and crack areas that were previously sealed remained intact. The O&M Inspection forms and Field Notes can be found in Appendix E.

Sampling results and O&M efforts will be evaluated and discussed with recommendations regarding further potential mitigation in the ASAOC milestone report: Report on Evaluation of Indoor/Outdoor Air and Recommendations.

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A portion of the Outdoor Air Investigation occurred on the 440 Wolfe property as described in Section 2.5.

2.3 815 Stewart

Before each indoor air VI activity, the property managers at 815 Stewart were contacted for access and scheduling. A summary of 2021 contact dates and topics are below:

- On 8 January and 25 January, the Manager of Facilities and Maintenance of 815 Stewart was contacted to schedule the winter indoor air resampling at the beginning of 2021.
- On 8 February, the Manager of Facilities and Maintenance was contacted regarding use of the parking lot for the outdoor air investigation.
- On 22, 23, and 30 November, the Senior Director and Gym Director were contacted to schedule the winter indoor air sampling event at the end of 2021.
- On 17 December, the Gym Director was contacted regarding the change in brand name from Planet Granite to Movement Sunnyvale.

A resampling event occurred on 14-15 January 2021 to capture data from the 15-16 December 2020 O&M sampling event since all samples were lost during shipment to the analytical laboratory. The indoor air sample results for 815 Stewart can be found in Table 5 and were also discussed in the 2020 Vapor Intrusion and Mitigation Activities Report (Locus, 2021a), submitted 1 March 2021. The sample results from the resampling event were all found to be below indoor air evaluation criteria for accelerated response action level, short-term and long-term mitigation action levels.

On 9 February 2021, the winter indoor air sampling event was conducted and samples were collected and analyzed according to the previous O&M Plan for the Sub-Slab Depressurization System (SSDS) (Locus, 2018) dated 15 November 2018 due to scheduling and sampling

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preparation before receiving EPA approval of the Building-Specific Work Plan Addendum for 815 Stewart (Locus, 2020c). Sample locations at 815 Stewart can be seen in Figure 5. The sample results from the winter indoor air sampling event can also be found in Table 5. Results were all found to be below the indoor air evaluation criteria for accelerated response action level, short-term, pre-emptive, and long-term mitigation action criteria for any COC.

On 15 - 16 December, the O&M inspection and post-mitigation sampling were conducted in accordance with the Vapor Work Plan (Locus, 2020a) and Building-Specific Work Plan Addendum for 815 Stewart (Locus, 2020c). The sample results from the post-mitigation sampling can also be found in Table 5. Results were all found to be below indoor air evaluation criteria for accelerated response action levels, short-term and long-term mitigation action levels for all COCs. This indicates the installed SSDS is performing adequately.

The O&M inspection included observations of the condition of the SSDS as well as measurements of amperage, flowrate, and vacuum at each blower as field parameters, which can be found in Table 6. Historical indoor air results from 815 Stewart can be found in Appendix A. Lab reports are included in Appendix B. Historical field parameters of the SSDS can be found in Appendix G. No anomalies or findings of poor conditions that would necessitate corrective action were observed. The SSDS appeared in continued good working order. The O&M Inspection forms and Field Notes can be found in Appendix E.

All results will be evaluated and discussed with recommendations regarding further action in the ASAOC milestone report: Report on Evaluation of Indoor Air and Recommendations.

A portion of the Outdoor Air Investigation that occurred on the 815 Stewart property is discussed in Section 2.5.

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2.4 830 Stewart

A communication log has been maintained by Locus and was updated on 11 June 2021 per EPA request. The log documents communication efforts between Locus and the 830 Stewart property from as early as 2018 to the present and includes calls, emails, and visits in pursuit of discussions for a VI investigation at the property. The communication log will be used by the EPA to assess potential legal avenues for accessing the facility. On 2 September, Locus began research for building plans and layouts from the archives of the City of Sunnyvale for future consideration for a VI building survey. No VI activities were performed at the 830 Stewart property for 2021.

2.5 Outdoor Air Evaluation

The Outdoor Air Evaluation took place from February - March 2021 and included onsite outdoor ambient air passive Radiello sampling, offsite outdoor ambient air passive Radiello sampling, vent stack Summa canister sampling, and vent stack Tedlar bag sampling. The purpose of this investigation was to determine the impact of the emissions from installed mitigation systems on the ambient outdoor air quality as described in the Vapor Work Plan (Locus, 2020a). Sampling locations were spread across the Signetics Site and the nearby Offsite Operable Unit (OOU) site which are a part of the encompassing Triple Site.

Locations on the Signetics Site included the vent stack sampling on the SSDS at 815 Stewart; points around the groundwater treatment system located at 813 Stewart; onsite outdoor air locations at both 815 Stewart and 440 Wolfe; as well as points around 811 Arques as seen in Figure 6. Sample results can be found in Table 7 for samples located on the Signetics Site. Lab reports are included in Appendix B. Field Notes are included in Appendix E. Indoor air criteria do not apply to the outdoor air investigation. Based on the data collected for this investigation, the observed outdoor TCE concentrations and the vent stack emissions from the mitigation

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systems are unlikely to have a significant effect on the outdoor air at ground level. An evaluation of the collected data and recommendations were reported in the Outdoor Air Evaluation Technical Memorandum (Locus, 2021b).

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3. Delays and Problems Encountered

This section summarizes problems and delays that were encountered during 2021.

3.1 COVID-19 Pandemic

The continued COVID-19 pandemic necessitated some modifications to the investigation approach during 2021. Health order mandates from Santa Clara County and the State of California which were designed to reduce risk of exposure also reduced building access and availability with property owners and managers. Extra precautions were taken with regards to social distancing, PPE, and minimization of field staff.

3.2 Missing Result for Location PNPBAS-AMB-5

The sample device from 440 Wolfe location PNPBAS-AMB-5 from the winter indoor air sampling event on 10 February was found to have leaked sorbent and was unable to be analyzed by the laboratory. In response, a resampling event was scheduled for and successfully completed on 24 March 2021 to collect a sample for viable analysis and evaluation.

3.3 Change of Air Sampling Technique for an Air Stream

Based on comparison of results from passive samplers and summa canister samples, the use of passive samplers is not appropriate for the carbon drum effectiveness evaluation which places samplers at the influent and effluent of the air purifier. The influent and effluent have higher flow conditions compared to ambient passive conditions which are assumed for this sampling technique. The laboratory confirmed that passive sampler results would be biased high, as seen in the PNPBAS-GAC-1 influent samples from 7 January, 10 February, and 10 March. As discussed with EPA and described in the VI Activities Reports for First and Second Quarter 2021, this necessitated a change in air sample collection method from passive samplers

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to summa canisters in the influent and effluent of the air purifier and at the ventilation intake to the server room in 440 Wolfe. In the future, any air sample locations where an air stream may be present and/or affect air sampler uptake will be considered for summa canister collection as a modification to procedures outlined by the Vapor Work Plan or any Building-Specific Work Addenda.

3.4 Laboratory Error

On 26 May, the analytical laboratory informed Locus that sample at PNPBAS-GAC-2 collected on 12 May was found to be at ambient pressure due to an instrument error and subsequently needed to be re-pressurized for reanalysis, which resulted in a final dilution factor of 4.20 and elevated reporting limits for the TO-15 (SIM) analysis. The elevated reporting limits did not interfere with the evaluation of the sample.

3.5 Delays of a Building Survey at 811 Arques

Due to many delays in responses from the Senior Real Estate Manager or appropriate property managers, no activities within the building at 811 Arques were performed in 2021. However, Locus had successful discussions in October 2021 with the Real Estate Manager and Lowe's engineer. VI activities are expected to commence in 2022 starting with the building survey which was completed on 15 February 2022.

3.6 Access to 830 Stewart

As discussed in previous VI activities reports, the property owners of 830 Stewart have not responded to multiple outreach efforts and therefore the property is not accessible to Locus. The EPA is assessing legal avenues for gaining access to the property with support from Locus.

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Until contact can be made and access granted by the property owners, vapor intrusion cannot be investigated at this property.

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4. Schedule of Future Vapor Intrusion Activities

The following activities are planned for 2022:

- Indoor Air Building Survey at 811 Arques building on 15 February 2022.
- Development of the Building-Specific Work Addendum for 811 Arques
- Sampling at 811 Arques as determined by the forthcoming Building-Specific Work Addendum.
- Confirmation sampling of elevated winter indoor air samples at 440 Wolfe.
- Continue to pursue contact and an access agreement with the property owners or managers at 830 Stewart, in coordination with EPA.
- Annual winter indoor air sampling and O&M inspections at 440 Wolfe and 815 Stewart in December 2022.

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Tables

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TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--	--
Long-Term Mitigation Criteria		1000	--	8	70	53
Short-Term Mitigation Criteria		3819	22000	--	79	150
BLANK-PNP	01/07/2021	<0.37	<0.13 ,C	<0.14 ,C	<0.11 ,C	<0.099 ,C
	02/10/2021	<0.34	<0.12	<0.13	<0.10	<0.091
	03/10/2021	<0.37	<0.13 ,C	<0.14 ,C	<0.11 ,C	<0.098 ,C
	03/24/2021	<0.35	<0.12 ,C	<0.13 ,C	<0.11 ,C	<0.092 ,C
	04/07/2021	<0.35	<0.12 ,C	<0.13 ,C	<0.11 ,C	<0.093 ,C
	05/12/2021	<0.36	<0.12 ,C	<0.13 ,C	<0.11 ,C	<0.094 ,C
	06/16/2021	<0.35	<0.12 ,C	<0.13 ,C	<0.10 ,C	<0.091 ,C
	12/16/2021	<0.35	<0.12 ,C	<0.13 ,C	<0.11 ,C	<0.092 ,C
PNPBAS-OUT-1	01/07/2021	<0.37	0.71 C	<0.14 ,C	<0.11 ,C	0.20 C,M
	02/10/2021	<0.36	0.59	<0.13	<0.11	0.19
	03/10/2021	<0.38	0.48 C	<0.14 ,C	<0.12 ,C	0.12 C
	03/24/2021	<0.35	0.46 C	<0.13 ,C	<0.11 ,C	<0.092 ,C
	05/12/2021	<0.35	0.41 C	<0.13 ,C	<0.11 ,C	0.14 C
	06/16/2021	<0.35	0.51 C	<0.13 ,C	<0.11 ,C	0.27 C
	12/16/2021	<0.37	0.59 C	<0.14 ,C	<0.11 ,C	0.15 C
PNPBAS-AMB-1	02/10/2021	<0.36	1.6	<0.13	<0.11	0.15
	04/07/2021	<0.37	1.4 C	<0.14 ,C	<0.11 ,C	0.20 C
DUP	04/07/2021	<0.37	1.4 C	<0.14 ,C	<0.11 ,C	0.16 C
	05/12/2021	<0.37	1.4 C	<0.14 ,C	<0.11 ,C	0.18 C
	12/16/2021	<0.37	0.72 C	<0.14 ,C	<0.11 ,C	0.13 C
PNPBAS-AMB-2	02/10/2021	<0.35	0.51	<0.13	<0.10	0.16
	12/16/2021	<0.36	0.58 C	<0.13 ,C	<0.11 ,C	0.12 C
PNPBAS-AMB-3	02/10/2021	<0.37	0.52	<0.14	<0.11	0.15
DUP	02/10/2021	<0.37	0.61	<0.14	<0.11	0.18
	12/16/2021	<0.36	0.58 C	<0.13 ,C	<0.11 ,C	0.12 C

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--	--
Long-Term Mitigation Criteria		1000	--	8	70	53
Short-Term Mitigation Criteria		3819	22000	--	79	150
PNPBAS-AMB-4	02/10/2021	<0.36	0.57	<0.13	<0.11	0.18
	12/16/2021	<0.37	0.55 C	<0.14 ,C	<0.11 ,C	0.14 C
PNPBAS-AMB-5	03/24/2021	<0.35	0.46 C	<0.13 ,C	<0.11 ,C	0.17 C
DUP	03/24/2021	<0.35	0.53 C	<0.13 ,C	<0.11 ,C	0.13 C
	12/16/2021	<0.36	0.51 C	<0.13 ,C	<0.11 ,C	0.12 C
DUP	12/16/2021	<0.36	0.52 C	<0.13 ,C	<0.11 ,C	0.12 C
PNPBAS-AMB-6	02/10/2021	<0.36	0.69	<0.13	<0.11	0.15
	12/16/2021	<0.36	0.55 C	<0.13 ,C	<0.11 ,C	0.13 C
PNPBAS-AMB-8	05/12/2021	<0.36	0.45 C	<0.13 ,C	<0.11 ,C	0.16 C
DUP	05/12/2021	<0.36	0.61 C	<0.13 ,C	<0.11 ,C	0.16 C
	06/16/2021	<0.36	0.58 C	<0.13 ,C	<0.11 ,C	0.26 C
	12/16/2021	<0.36	0.52 C	<0.13 ,C	<0.11 ,C	0.12 C
PNPBAS-PATH-1	02/10/2021	<0.36	0.70	<0.13	<0.11	0.26
	12/16/2021	<0.36	0.53 C	<0.13 ,C	<0.11 ,C	0.20 C
PNPBAS-PATH-2	02/10/2021	<0.36	0.64	<0.13	<0.11	0.17
	12/16/2021	<0.36	0.56 C	<0.13 ,C	<0.11 ,C	0.12 C
PNPBAS-PATH-3	02/10/2021	<0.37	0.62	<0.14	<0.11	0.16
	12/16/2021	<0.36	0.58 C	<0.13 ,C	<0.11 ,C	0.14 C
PNPBAS-PATH-4	02/10/2021	<0.36	1.7	<0.13	<0.11	0.16
	03/10/2021	<0.38	1.0 C	<0.14 ,C	<0.11 ,C	0.17 C
DUP	03/10/2021	<0.38	0.83 C	<0.14 ,C	<0.11 ,C	0.10 C
	04/07/2021	<0.36	0.86 C	<0.13 ,C	<0.11 ,C	0.12 C
	04/07/2021*	<0.15	<1.0	<0.11	<0.053	<0.13
	12/16/2021*	<0.15	<1.0	<0.11	<0.054	<0.13
DUP	12/16/2021*	<0.15	<1.1	<0.11	<0.056	<0.14

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--	--
Long-Term Mitigation Criteria		1000	--	8	70	53
Short-Term Mitigation Criteria		3819	22000	--	79	150
PNPBAS-PATH-5	02/10/2021	<0.37	1.8	<0.14	<0.11	0.17
	12/16/2021	<0.38	0.74 C	<0.14 ,C	<0.11 ,C	0.16 C
PNPBAS-PATH-11	04/08/2021*	<0.14	<0.96	<0.10	<0.050	<0.12
	05/12/2021*	<0.15	<1.1	<0.11	<0.056	0.17
	06/16/2021*	<0.16	<1.1	<0.12	<0.058	0.30
DUP	06/16/2021*	<0.18	<1.2	<0.13	<0.064	0.29
	12/16/2021	<0.37	0.37 C	<0.14 ,C	<0.11 ,C	<0.096 ,C
PNPOFF-OUT-1	02/10/2021	<0.34	0.54	<0.13	<0.10	0.16
	04/07/2021	<0.34	0.57 C	<0.13 ,C	<0.10 ,C	0.18 C
	12/16/2021	<0.37	0.52 C	<0.14 ,C	<0.11 ,C	0.14 C
PNPOFF-AMB-1	02/10/2021	<0.35	0.47	<0.13	<0.11	0.12
DUP	02/10/2021	<0.35	0.41	<0.13	<0.11	0.12
	12/16/2021	<0.36	0.42 C	<0.13 ,C	<0.11 ,C	0.17 C
PNPOFF-AMB-2	02/10/2021	<0.35	0.47	<0.13	<0.10	0.13
	12/16/2021	<0.35	0.48 C	<0.13 ,C	<0.11 ,C	0.12 C
PNPOFF-AMB-3	02/10/2021	<0.35	0.50	<0.13	<0.10	0.15
	12/16/2021	<0.35	0.50 C	<0.13 ,C	<0.11 ,C	0.18 C
PNPOFF-AMB-4	02/10/2021	<0.35	0.50	<0.13	<0.10	0.14
	12/16/2021	<0.35	0.45 C	<0.13 ,C	<0.11 ,C	0.14 C
PNPOFF-AMB-5	02/10/2021	<0.35	0.47	<0.13	<0.10	0.14
	12/16/2021	<0.35	0.37 C	<0.13 ,C	<0.11 ,C	0.10 C
PNPOFF-AMB-6	02/10/2021	<0.35	0.64	<0.13	<0.10	0.24
	12/16/2021	<0.35	0.44 C	<0.13 ,C	<0.11 ,C	0.13 C
PNPOFF-AMB-7	02/10/2021	<0.35	0.52	<0.13	<0.10	0.19
	12/16/2021	<0.35	0.40 C	<0.13 ,C	<0.11 ,C	0.14 C

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--	--
Long-Term Mitigation Criteria		1000	--	8	70	53
Short-Term Mitigation Criteria		3819	22000	--	79	150
PNPOFF-PATH-1	02/10/2021	<0.35	0.46	<0.13	<0.11	0.20
	12/16/2021	<0.35	0.39 C	<0.13 ,C	<0.11 ,C	0.43 C

Notes:
C - Estimated concentration due to calculated uptake rate.
* - Indicates samples collected were analyzed by USEPA Method TO-15 (SIM).
All other samples collected were analyzed by USEPA Method TO-17.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	cis-1,2-Dichloroethene (µg/m^3)	Tetrachloroethene (PCE) (µg/m^3)	trans-1,2-Dichloroethene (µg/m^3)	Trichloroethene (TCE) (µg/m^3)	Vinyl Chloride (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	21	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	5	--
Long-Term Mitigation Criteria		--	2	--	3	0.16
Short-Term Mitigation Criteria		35	40	350	7	77
BLANK-PNP	01/07/2021	<0.14 ,C	<0.15	<0.14 ,C	<0.14	--
	02/10/2021	<0.13	<0.14	<0.13	<0.13	--
	03/10/2021	<0.14 ,C	<0.15	<0.14 ,C	<0.14	--
	03/24/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
	04/07/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
	05/12/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
	06/16/2021	<0.13 ,C	<0.14	<0.13 ,C	<0.13	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPBAS-OUT-1	01/07/2021	<0.14 ,C	<0.15	<0.14 ,C	<0.14	--
	02/10/2021	<0.13	<0.14	<0.14	0.24	--
	03/10/2021	<0.14 ,C	<0.15	<0.15 ,C	0.24	--
	03/24/2021	<0.13 ,C	<0.14	<0.14 ,C	0.14	--
	05/12/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
	06/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.21	--
	12/16/2021	<0.14 ,C	<0.14	<0.14 ,C	<0.14	--
PNPBAS-AMB-1	02/10/2021	1.7	<0.14	<0.14	5.6	--
	04/07/2021	1.6 C	<0.15	<0.14 ,C	6.3	--
DUP	04/07/2021	1.5 C	0.15	<0.14 ,C	6.4	--
	05/12/2021	1.5 C	<0.14	<0.14 ,C	5.5	--
	12/16/2021	0.87 C	<0.14	<0.14 ,C	3.9	--
PNPBAS-AMB-2	02/10/2021	<0.13	<0.14	<0.13	0.48	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.21	--
PNPBAS-AMB-3	02/10/2021	<0.14	<0.14	<0.14	0.34	--
DUP	02/10/2021	<0.14	<0.14	<0.14	0.36	--
	12/16/2021	<0.14 ,C	<0.14	<0.14 ,C	<0.13	--

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	cis-1,2-Dichloroethene (µg/m^3)	Tetrachloroethene (PCE) (µg/m^3)	trans-1,2-Dichloroethene (µg/m^3)	Trichloroethene (TCE) (µg/m^3)	Vinyl Chloride (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	21	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	5	--
Long-Term Mitigation Criteria		--	2	--	3	0.16
Short-Term Mitigation Criteria		35	40	350	7	77
PNPBAS-AMB-4	02/10/2021	<0.13	<0.14	<0.14	0.28	--
	12/16/2021	<0.14 ,C	<0.14	<0.14 ,C	<0.14	--
PNPBAS-AMB-5	03/24/2021	<0.13 ,C	<0.14	<0.14 ,C	0.54	--
DUP	03/24/2021	<0.13 ,C	<0.14	<0.14 ,C	0.54	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.18	--
DUP	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.19	--
PNPBAS-AMB-6	02/10/2021	<0.13	<0.14	<0.14	1.7	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.35	--
PNPBAS-AMB-8	05/12/2021	<0.13 ,C	<0.14	<0.14 ,C	0.31	--
DUP	05/12/2021	<0.13 ,C	<0.14	<0.14 ,C	0.34	--
	06/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.63	--
	12/16/2021	<0.14 ,C	<0.14	<0.14 ,C	0.15	--
PNPBAS-PATH-1	02/10/2021	0.20	<0.14	<0.14	1.0	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.42	--
PNPBAS-PATH-2	02/10/2021	<0.13	<0.14	<0.14	0.70	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	0.25	--
PNPBAS-PATH-3	02/10/2021	<0.14	<0.14	<0.14	0.30	--
	12/16/2021	0.18 C	<0.14	<0.14 ,C	0.23	--
PNPBAS-PATH-4	02/10/2021	1.2	0.16	<0.14	6.2	--
	03/10/2021	1.0 C	<0.15	<0.14 ,C	5.6	--
DUP	03/10/2021	0.70 C	<0.15	<0.14 ,C	5.7	--
	04/07/2021	0.52 C	0.16	<0.14 ,C	4.5	--
	04/07/2021*	<0.11	<0.18	<0.53	0.19	<0.034
	12/16/2021*	<0.11	<0.18	<0.54	<0.15	<0.035
DUP	12/16/2021*	<0.11	<0.19	<0.56	<0.15	<0.036

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	cis-1,2-Dichloroethene (µg/m^3)	Tetrachloroethene (PCE) (µg/m^3)	trans-1,2-Dichloroethene (µg/m^3)	Trichloroethene (TCE) (µg/m^3)	Vinyl Chloride (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	21	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	5	--
Long-Term Mitigation Criteria		--	2	--	3	0.16
Short-Term Mitigation Criteria		35	40	350	7	77
PNPBAS-PATH-5	02/10/2021	1.4	<0.15	<0.14	6.1	--
	12/16/2021	0.93 C	<0.15	<0.14 ,C	4.0	--
PNPBAS-PATH-11	04/08/2021*	0.12	0.18	<0.50	2.6	<0.032
	05/12/2021*	0.43	0.37	<0.56	16	<0.036
	06/16/2021*	0.59	0.30	<0.58	9.5	<0.037
DUP	06/16/2021*	0.56	0.30	<0.64	9.7	<0.041
	12/16/2021	<0.14 ,C	<0.14	<0.14 ,C	<0.14	--
PNPOFF-OUT-1	02/10/2021	<0.13	<0.14	<0.13	0.13	--
	04/07/2021	<0.13 ,C	<0.14	<0.13 ,C	<0.13	--
	12/16/2021	<0.14 ,C	<0.14	<0.14 ,C	<0.14	--
PNPOFF-AMB-1	02/10/2021	<0.13	<0.14	<0.14	0.19	--
DUP	02/10/2021	<0.13	<0.14	<0.14	0.18	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPOFF-AMB-2	02/10/2021	<0.13	<0.14	<0.13	0.22	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPOFF-AMB-3	02/10/2021	<0.13	<0.14	<0.13	0.23	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPOFF-AMB-4	02/10/2021	<0.13	<0.14	<0.13	0.14	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPOFF-AMB-5	02/10/2021	<0.13	<0.14	<0.14	0.15	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPOFF-AMB-6	02/10/2021	<0.13	<0.14	<0.13	0.18	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--
PNPOFF-AMB-7	02/10/2021	<0.13	<0.14	<0.13	0.16	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 1
440 WOLFE INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	cis-1,2-Dichloroethene (µg/m^3)	Tetrachloroethene (PCE) (µg/m^3)	trans-1,2-Dichloroethene (µg/m^3)	Trichloroethene (TCE) (µg/m^3)	Vinyl Chloride (µg/m^3)
ASAOC Accelerated Response Action Level for TCE		--	--	--	21	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	5	--
Long-Term Mitigation Criteria		--	2	--	3	0.16
Short-Term Mitigation Criteria		35	40	350	7	77
PNPOFF-PATH-1	02/10/2021	<0.13	<0.14	<0.14	0.17	--
	12/16/2021	<0.13 ,C	<0.14	<0.14 ,C	<0.13	--

Notes:
C - Estimated concentration due to calculated upta
* - Indicates samples collected were analyzed by U
All other samples collected were analyzed by USEI
Analysis of vinyl chloride cannot be performed by U

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 2
440 WOLFE GAC AIR PURIFIER ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)	cis-1,2-Dichloroethene (µg/m^3)
PNPBAS-GAC-1	01/07/2021	<0.38	4.1 C	<0.14 ,C	<0.12 ,C	0.12 C	2.8 C
	02/10/2021	<0.38	4.5	<0.14	<0.11	0.25	1.7
	03/10/2021	<0.39	1.3 C	<0.14 ,C	<0.12 ,C	0.19 C	1.6 C
	04/07/2021	<0.42	2.2 C	<0.15 ,C	<0.13 ,C	0.18 C	1.5 C
	04/07/2021*	<0.15	1.2	<0.11	<0.053	<0.13	1.2
	05/12/2021	<0.37	2.8 C	<0.14 ,C	<0.11 ,C	0.29 C	1.1 C
	05/12/2021*	<0.15	1.1	<0.11	<0.056	0.15	1.1
PNPBAS-GAC-2 DUP	01/07/2021	<0.38	2.0 C	<0.14 ,C	<0.12 ,C	0.11 C	1.7 C
	01/07/2021	<0.38	1.8 C	<0.14 ,C	<0.12 ,C	<0.10 ,C	1.1 C
	02/10/2021	<0.38	1.8	<0.14	<0.11	0.11	0.89
	03/10/2021	<0.38	1.3 C	<0.14 ,C	<0.12 ,C	0.14 C	0.58 C
	04/07/2021	<0.38	1.8 C	<0.14 ,C	<0.11 ,C	0.15 C	1.0 C
	04/07/2021*	<0.14	1.5	<0.10	<0.051	<0.12	0.66
	05/12/2021	<0.37	1.5 C	<0.14 ,C	<0.11 ,C	<0.097 ,C	1.1 C
	05/12/2021*	<0.60	<4.2	<0.44	<0.22	<0.54	0.81

Notes:
C - Estimated concentration due to calculated uptake rate.
* - Indicates samples collected were analyzed by USEPA Method TO-15 (SIM).
Samples collected on 7 January, 10 February, and 10 March 2021 were analyzed by USEPA Method TO-17.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 2
440 WOLFE GAC AIR PURIFIER ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Tetrachloroethene (PCE) (µg/m^3)	trans-1,2-Dichloroethene (µg/m^3)	Trichloroethene (TCE) (µg/m^3)	Vinyl Chloride (µg/m^3)
PNPBAS-GAC-1	01/07/2021	0.28	0.17 C	17	--
	02/10/2021	0.53	<0.14	15	--
	03/10/2021	<0.15	<0.15 ,C	4.4	--
	04/07/2021	0.27	<0.16 ,C	9.3	--
	04/07/2021*	<0.18	<0.53	4.6	<0.034
	05/12/2021	0.51	<0.14 ,C	18	--
	05/12/2021*	<0.19	<0.56	4.3	<0.036
PNPBAS-GAC-2 DUP	01/07/2021	0.17	<0.15 ,C	4.5	--
	01/07/2021	<0.15	<0.15 ,C	2.3	--
	02/10/2021	<0.15	<0.14	2.7	--
	03/10/2021	<0.15	<0.15 ,C	<0.14	--
	04/07/2021	<0.15	<0.15 ,C	0.96	--
	04/07/2021*	<0.18	<0.51	<0.14	<0.033
	05/12/2021	<0.14	<0.14 ,C	<0.14	--
	05/12/2021*	<0.75	<2.2	<0.59	<0.14

Notes:
C - Estimated concentration due to ca
* - Indicates samples collected were
Samples collected on 7 January, 10 F
Analysis of vinyl chloride cannot be p

TABLE 3
440 WOLFE INDOOR AIR FROG-5000 TCE SCREENING RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Location	Date	TCE Concentration ppb_v	Calculated TCE Concentration $\mu g/m^3$
PNPBAS-AMB-1	04/07/2021	ND	ND
PNPBAS-PATH-4	04/07/2021	ND	ND
PNPBAS-PATH-6	04/07/2021	ND	ND
PNPBAS-PATH-7	04/07/2021	ND	ND
PNPBAS-PATH-8	04/07/2021	0.48*	2.58*
PNPBAS-PATH-9	04/07/2021	0.51*	2.74*
PNPBAS-GAC-2	04/07/2021	ND	ND
PNPBAS-GAC-1	04/07/2021	0.52*	2.79*
PNPBAS-SRC-1	04/07/2021	0.59*	3.17*
PNPBAS-SRC-2	04/07/2021	0.56*	3.01*
PNPBAS-AMB-7	04/07/2021	ND	ND
PNPBAS-PATH-10	04/07/2021	ND	ND
PNPBAS-PATH-11	04/07/2021	83.13	446.76
PNPBAS-OUT-1	04/08/2021	ND	ND
PNPBAS-PATH-12	04/08/2021	ND	ND
PNPBAS-PATH-13	04/08/2021	ND	ND

Notes:
ND - Results were below detection limits.
*detected below the reporting limit of 0.97 ppb (5.21 $\mu g/m^3$).

TABLE 4
440 WOLFE O&M MITIGATION SYSTEM FIELD MEASUREMENTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Location	Date	Vacuum in. wc
PNPBAS-GAC-1	12/16/2021	1.0

TABLE 5
815 STEWART INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) ($\mu g/m^3$)	1,1,2-Trichlorotrifluoroethane (CFC 113) ($\mu g/m^3$)	1,1-Dichloroethane (1,1-DCA) ($\mu g/m^3$)	1,1-Dichloroethene (1,1-DCE) ($\mu g/m^3$)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--
Long-Term Mitigation Criteria		1000	--	8	70
Short-Term Mitigation Criteria		3819	22000	--	79
BLANK-PG	01/14/2021	<0.34	<0.12 ,C	<0.12 ,C	<0.10 ,C
	02/09/2021	<0.36	<0.12 ,C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.35	<0.12 ,C	<0.13 ,C	<0.10 ,C
PG-AMB-1	01/14/2021	<0.37	0.63 C	<0.14 ,C	<0.11 ,C
DUP	01/14/2021	<0.37	0.92 C	<0.14 ,C	<0.11 ,C
	02/09/2021	<0.36	0.64 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.56 C	<0.14 ,C	<0.11 ,C
DUP	12/15/2021	<0.37	0.54 C	<0.14 ,C	<0.11 ,C
PG-AMB-2	01/14/2021	<0.36	0.76 C	<0.13 ,C	<0.11 ,C
	02/09/2021	<0.36	0.61 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.46 C	<0.14 ,C	<0.11 ,C
PG-AMB-3	01/14/2021	<0.37	0.82 C	<0.14 ,C	<0.11 ,C
	02/09/2021	<0.36	0.61 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.52 C	<0.14 ,C	<0.11 ,C
PG-AMB-4	01/14/2021	<0.36	0.83 C	<0.13 ,C	<0.11 ,C
	02/09/2021	<0.36	0.63 C	<0.13 ,C	<0.11 ,C
DUP	02/09/2021	<0.36	0.64 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.52 C	<0.14 ,C	<0.11 ,C
PG-AMB-5	01/14/2021	<0.37	0.77 C	<0.14 ,C	<0.11 ,C
	02/09/2021	<0.36	0.42 C	<0.13 ,C	<0.11 ,C
PG-AMB-6	01/14/2021	<0.36	0.82 C	<0.13 ,C	<0.11 ,C
	02/09/2021	<0.36	0.59 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.62 C	<0.14 ,C	<0.11 ,C
PG-AMB-7	01/14/2021	<0.37	0.74 C	<0.14 ,C	<0.11 ,C
	02/09/2021	<0.37	0.60 C	<0.14 ,C	<0.11 ,C
	12/15/2021	<0.37	0.52 C	<0.14 ,C	<0.11 ,C

Notes:
C - Estimated concentration due to calculated uptake rate.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17

TABLE 5
815 STEWART INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) ($\mu g/m^3$)	1,1,2-Trichlorotrifluoroethane (CFC 113) ($\mu g/m^3$)	1,1-Dichloroethane (1,1-DCA) ($\mu g/m^3$)	1,1-Dichloroethene (1,1-DCE) ($\mu g/m^3$)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--
Long-Term Mitigation Criteria		1000	--	8	70
Short-Term Mitigation Criteria		3819	22000	--	79
PG-AMB-8	01/14/2021	<0.36	0.85 C	<0.13 ,C	<0.11 ,C
	02/09/2021	<0.36	0.62 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.54 C	<0.14 ,C	<0.11 ,C
PG-AMB-9	01/14/2021	<0.36	0.78 C	<0.13 ,C	<0.11 ,C
	02/09/2021	<0.36	0.64 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.44 C	<0.14 ,C	<0.11 ,C
PG-AMB-10	01/14/2021	<0.36	0.82 C	<0.13 ,C	<0.11 ,C
	02/09/2021	<0.36	0.57 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.36	0.50 C	<0.13 ,C	<0.11 ,C
PG-OUT-1	01/14/2021	<0.37	0.78 C	<0.14 ,C	<0.11 ,C
	02/09/2021	<0.36	0.31 C	<0.13 ,C	<0.11 ,C
	12/15/2021	<0.37	0.48 C	<0.14 ,C	<0.11 ,C
PG-OUT-2	01/14/2021	<0.34	0.96 C	<0.12 ,C	<0.10 ,C
	02/09/2021	<0.37	0.68 C	<0.14 ,C	<0.11 ,C
	12/15/2021	<0.37	0.53 C	<0.14 ,C	<0.11 ,C
PG-PATH-1	12/15/2021	<0.36	0.51 C	<0.13 ,C	<0.11 ,C
PG-PATH-2	12/15/2021	<0.37	0.49 C	<0.14 ,C	<0.11 ,C
PG-PATH-3	12/15/2021	<0.37	0.56 C	<0.14 ,C	<0.11 ,C

Notes:
C - Estimated concentration due to calculated uptake rate.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17

TABLE 5
815 STEWART INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Chloroform ($\mu g/m^3$)	cis-1,2-Dichloroethene ($\mu g/m^3$)	Tetrachloroethene (PCE) ($\mu g/m^3$)	trans-1,2-Dichloroethene ($\mu g/m^3$)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--
Long-Term Mitigation Criteria		53	--	2	--
Short-Term Mitigation Criteria		150	35	40	350
BLANK-PG	01/14/2021	<0.088 ,C	<0.12 ,C	<0.13	<0.13 ,C
	02/09/2021	<0.094 ,C	<0.13 ,C	<0.14	<0.14 ,C
	12/15/2021	<0.091 ,C	<0.13 ,C	<0.14	<0.13 ,C
PG-AMB-1	01/14/2021	<0.097 ,C	<0.14 ,C	<0.14	<0.14 ,C
DUP	01/14/2021	0.28 C	<0.14 ,C	0.17	<0.14 ,C
	02/09/2021	0.22 C	<0.14 ,C	<0.14	<0.14 ,C
	12/15/2021	0.12 C	<0.14 ,C	<0.14	<0.14 ,C
DUP	12/15/2021	0.11 C	<0.14 ,C	<0.14	<0.14 ,C
PG-AMB-2	01/14/2021	0.21 C	<0.14 ,C	0.20	<0.14 ,C
	02/09/2021	0.18 C	<0.13 ,C	<0.14	<0.14 ,C
	12/15/2021	0.12 C	<0.14 ,C	<0.14	<0.14 ,C
PG-AMB-3	01/14/2021	0.24 C	<0.14 ,C	0.20	<0.14 ,C
	02/09/2021	0.16 C	<0.13 ,C	<0.14	<0.14 ,C
	12/15/2021	0.12 C	<0.14 ,C	<0.14	<0.14 ,C
PG-AMB-4	01/14/2021	0.22 C	<0.14 ,C	0.18	<0.14 ,C
	02/09/2021	0.17 C	<0.14 ,C	<0.14	<0.14 ,C
DUP	02/09/2021	0.24 C	<0.14 ,C	<0.14	<0.14 ,C
	12/15/2021	0.11 C	<0.14 ,C	<0.14	<0.14 ,C
PG-AMB-5	01/14/2021	0.27 C	<0.14 ,C	0.21	<0.14 ,C
	02/09/2021	0.14 C	<0.14 ,C	<0.14	<0.14 ,C
PG-AMB-6	01/14/2021	0.16 C	<0.14 ,C	0.17	<0.14 ,C
	02/09/2021	0.16 C	<0.14 ,C	<0.14	<0.14 ,C
	12/15/2021	<0.097 ,C	<0.14 ,C	<0.14	<0.14 ,C
PG-AMB-7	01/14/2021	0.19 C	<0.14 ,C	0.16	<0.14 ,C
	02/09/2021	0.17 C	<0.14 ,C	<0.14	<0.14 ,C
	12/15/2021	0.13 C	<0.14 ,C	<0.14	<0.14 ,C

Notes:
C - Estimated concentration due to calculated uptake rate.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17

TABLE 5
815 STEWART INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Chloroform ($\mu g/m^3$)	cis-1,2-Dichloroethene ($\mu g/m^3$)	Tetrachloroethene (PCE) ($\mu g/m^3$)	trans-1,2-Dichloroethene ($\mu g/m^3$)
ASAOC Accelerated Response Action Level for TCE		--	--	--	--
ASAOC Pre-Emptive Mitigation Criteria for TCE		--	--	--	--
Long-Term Mitigation Criteria		53	--	2	--
Short-Term Mitigation Criteria		150	35	40	350
PG-AMB-8	01/14/2021	0.20 C	<0.14 ,C	0.16	<0.14 ,C
	02/09/2021	0.19 C	<0.13 ,C	<0.14	<0.14 ,C
	12/15/2021	0.13 C	<0.14 ,C	<0.15	<0.14 ,C
PG-AMB-9	01/14/2021	0.20 C	<0.14 ,C	<0.14	<0.14 ,C
	02/09/2021	0.17 C	<0.14 ,C	<0.14	<0.14 ,C
	12/15/2021	0.11 C	<0.14 ,C	<0.15	<0.14 ,C
PG-AMB-10	01/14/2021	0.17 C	<0.13 ,C	0.19	<0.14 ,C
	02/09/2021	0.18 C	<0.13 ,C	<0.14	<0.14 ,C
	12/15/2021	0.12 C	<0.14 ,C	<0.14	<0.14 ,C
PG-OUT-1	01/14/2021	0.21 C	<0.14 ,C	<0.14	<0.14 ,C
	02/09/2021	<0.094 ,C	<0.13 ,C	<0.14	<0.14 ,C
	12/15/2021	<0.097 ,C	<0.14 ,C	<0.14	<0.14 ,C
PG-OUT-2	01/14/2021	0.23 C	<0.12 ,C	<0.13	<0.13 ,C
	02/09/2021	<0.20 ,C	<0.14 ,C	<0.15	<0.14 ,C
	12/15/2021	<0.097 ,C	<0.14 ,C	<0.14	<0.14 ,C
PG-PATH-1	12/15/2021	0.63 C	<0.14 ,C	<0.14	<0.14 ,C
PG-PATH-2	12/15/2021	0.18 C	<0.14 ,C	<0.14	<0.14 ,C
PG-PATH-3	12/15/2021	0.17 C	<0.14 ,C	<0.14	<0.14 ,C

Notes:
C - Estimated concentration due to calculated uptake rate.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17

TABLE 5
815 STEWART INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Trichloroethene (TCE) ($\mu g/m^3$)
ASAOC Accelerated Response Action Level for TCE		21
ASAOC Pre-Emptive Mitigation Criteria for TCE		5
Long-Term Mitigation Criteria		3
Short-Term Mitigation Criteria		7
BLANK-PG	01/14/2021	<0.12
	02/09/2021	<0.13
	12/15/2021	<0.13
PG-AMB-1	01/14/2021	0.36
DUP	01/14/2021	0.40
	02/09/2021	0.34
	12/15/2021	<0.14
DUP	12/15/2021	<0.14
PG-AMB-2	01/14/2021	0.36
	02/09/2021	0.38
	12/15/2021	<0.14
PG-AMB-3	01/14/2021	0.36
	02/09/2021	0.38
	12/15/2021	<0.14
PG-AMB-4	01/14/2021	0.38
	02/09/2021	0.40
DUP	02/09/2021	0.39
	12/15/2021	<0.14
PG-AMB-5	01/14/2021	0.41
	02/09/2021	0.31
PG-AMB-6	01/14/2021	0.40
	02/09/2021	0.36
	12/15/2021	<0.14
PG-AMB-7	01/14/2021	0.36
	02/09/2021	0.41
	12/15/2021	<0.14

Notes:
C - Estimated concentration due to calculated uptake rate.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17

TABLE 5
815 STEWART INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Trichloroethene (TCE) ($\mu g/m^3$)
ASAOC Accelerated Response Action Level for TCE		21
ASAOC Pre-Emptive Mitigation Criteria for TCE		5
Long-Term Mitigation Criteria		3
Short-Term Mitigation Criteria		7
PG-AMB-8	01/14/2021	0.44
	02/09/2021	0.41
	12/15/2021	<0.14
PG-AMB-9	01/14/2021	0.52
	02/09/2021	0.45
	12/15/2021	<0.14
PG-AMB-10	01/14/2021	0.36
	02/09/2021	0.37
	12/15/2021	<0.13
PG-OUT-1	01/14/2021	0.40
	02/09/2021	0.23
	12/15/2021	<0.14
PG-OUT-2	01/14/2021	0.38
	02/09/2021	0.51
	12/15/2021	<0.14
PG-PATH-1	12/15/2021	0.16
PG-PATH-2	12/15/2021	<0.14
PG-PATH-3	12/15/2021	<0.14

Notes:
C - Estimated concentration due to calculated uptake rate.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17

TABLE 6
815 STEWART O&M SUBSLAB DEPRESSURIZATION SYSTEM FIELD MEASUREMENTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Location	Date	Amperage Amp	Flow CFM	Vacuum in. wc
PG-CENTER	12/15/2021	0.8	9	4.1
PG-CLOSET	12/15/2021	0.8	6	3.9
PG-EAST	12/15/2021	0.7	16	3.9
PG-MOON	12/15/2021	1.0	14	3.8
PG-WEST	12/15/2021	0.8	9	4.1

TABLE 7
OUTDOOR AIR EVALUATION ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)	cis-1,2-Dichloroethene (µg/m^3)
BLANK	02/04/2021	<0.38	<0.13 ,C	<0.14 ,C	<0.11 ,C	<0.099 ,C	<0.14 ,C
	02/09/2021	<0.37	<0.13 ,C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
811-OUT-1	02/04/2021	<0.37	0.68 C	<0.14 ,C	<0.11 ,C	0.22 C,M	<0.14 ,C
	02/09/2021	<0.37	0.67 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
811-OUT-2	02/04/2021	<0.37	0.80 C	<0.14 ,C	<0.11 ,C	0.15 C	<0.14 ,C
	02/09/2021	<0.37	0.81 C	<0.14 ,C	<0.11 ,C	0.20 C	<0.14 ,C
811-OUT-3	02/04/2021	<0.37	0.74 C	<0.14 ,C	<0.11 ,C	0.24 C,M	<0.14 ,C
	02/09/2021	<0.37	0.85 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-1	02/04/2021	<0.38	0.88 C	<0.14 ,C	<0.11 ,C	0.22 C	<0.14 ,C
	02/09/2021	<0.37	0.68 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-2	02/04/2021	<0.38	0.91 C	<0.14 ,C	<0.11 ,C	0.22 C	<0.14 ,C
DUP	02/04/2021	<0.38	0.94 C	<0.14 ,C	<0.11 ,C	0.27 C,M	<0.14 ,C
	02/09/2021	<0.37	0.74 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
DUP	02/09/2021	<0.37	0.72 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-4	02/04/2021	<0.38	1.1 C	<0.14 ,C	<0.11 ,C	0.19 C	<0.14 ,C
DUP	02/04/2021	<0.38	1.1 C	<0.14 ,C	<0.11 ,C	0.26 C,M	<0.14 ,C
	02/09/2021	<0.37	0.83 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
DUP	02/09/2021	<0.37	0.79 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-5	02/04/2021	<0.38	1.4 C	<0.14 ,C	<0.11 ,C	0.27 C,M	<0.14 ,C
	02/09/2021	<0.37	1.4 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-6	02/04/2021	<0.38	0.96 C	<0.14 ,C	<0.11 ,C	0.21 C	<0.14 ,C
	02/09/2021	<0.37	0.74 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-7	02/04/2021	<0.38	1.0 C	<0.14 ,C	<0.11 ,C	0.20 C	<0.14 ,C
	02/09/2021	<0.37	0.77 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
813-OUT-9	02/04/2021	<0.38	0.87 C	<0.14 ,C	<0.11 ,C	0.20 C	<0.14 ,C
	02/09/2021	<0.37	0.65 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
PG-OUT-1	02/04/2021	<0.38	1.1 C	<0.14 ,C	<0.11 ,C	0.18 C	<0.14 ,C
	02/09/2021	<0.36	0.31 C	<0.13 ,C	<0.11 ,C	<0.094 ,C	<0.13 ,C

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 7
OUTDOOR AIR EVALUATION ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	1,1,1-Trichloroethane (TCA) (µg/m^3)	1,1,2-Trichlorotrifluoroethane (CFC 113) (µg/m^3)	1,1-Dichloroethane (1,1-DCA) (µg/m^3)	1,1-Dichloroethene (1,1-DCE) (µg/m^3)	Chloroform (µg/m^3)	cis-1,2-Dichloroethene (µg/m^3)
PG-OUT-2	02/04/2021	<0.37	0.93 C	<0.14 ,C	<0.11 ,C	0.20 C	<0.14 ,C
	02/09/2021	<0.36	0.76 C	<0.13 ,C	<0.11 ,C	0.25 C	<0.13 ,C
PG-OUT-3	02/04/2021	<0.37	0.92 C	<0.14 ,C	<0.11 ,C	0.23 C,M	<0.14 ,C
	02/09/2021	<0.37	0.68 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
PNPOFF-OUT-1	02/04/2021	<0.37	0.73 C	<0.14 ,C	<0.11 ,C	0.18 C	<0.14 ,C
	02/09/2021	<0.37	0.71 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
PNPOFF-OUT-2	02/04/2021	<0.38	0.80 C	<0.14 ,C	<0.11 ,C	0.27 C,M	<0.14 ,C
	02/09/2021	<0.37	0.58 C	<0.14 ,C	<0.11 ,C	<0.20 ,C	<0.14 ,C
PG-Center	02/24/2021	<0.18	<1.3	<0.14	<0.067	0.50	<0.13
PG-Closet	02/24/2021	0.20	2.5	<0.13	<0.065	2.2	1.0
PG-East	02/24/2021	<0.19	<1.3	<0.14	<0.068	1.4	<0.14
PG-Moon	02/24/2021	0.53	29	<0.27	0.17	1.4	51
PG-West	02/24/2021	0.22	13	<0.15	<0.072	0.72	12

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 7
OUTDOOR AIR EVALUATION ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Tetrachloroethene (PCE) (µg/m^3)	trans-1,2-Dichloroethene (µg/m^3)	Trichloroethene (TCE) (µg/m^3)	Vinyl Chloride (µg/m^3)
BLANK	02/04/2021	<0.15	<0.14 ,C	<0.14	--
	02/09/2021	<0.15	<0.14 ,C	<0.14	--
811-OUT-1	02/04/2021	<0.15	<0.14 ,C	2.2	--
	02/09/2021	<0.15	<0.14 ,C	0.70	--
811-OUT-2	02/04/2021	<0.15	<0.14 ,C	1.5	--
	02/09/2021	<0.15	<0.14 ,C	0.34	--
811-OUT-3	02/04/2021	<0.15	<0.14 ,C	2.3	--
	02/09/2021	<0.15	<0.14 ,C	0.82	--
813-OUT-1	02/04/2021	<0.15	<0.14 ,C	0.87	--
	02/09/2021	<0.15	<0.14 ,C	0.22	--
813-OUT-2	02/04/2021	<0.15	<0.14 ,C	0.92	--
DUP	02/04/2021	<0.15	<0.14 ,C	0.90	--
	02/09/2021	<0.15	<0.14 ,C	0.25	--
DUP	02/09/2021	<0.15	<0.14 ,C	0.24	--
813-OUT-4	02/04/2021	<0.15	<0.14 ,C	1.2	--
DUP	02/04/2021	<0.15	<0.14 ,C	1.1	--
	02/09/2021	<0.15	<0.14 ,C	0.38	--
DUP	02/09/2021	<0.15	<0.14 ,C	0.37	--
813-OUT-5	02/04/2021	<0.15	<0.14 ,C	1.4	--
	02/09/2021	<0.15	<0.14 ,C	0.48	--
813-OUT-6	02/04/2021	<0.15	<0.14 ,C	1.4	--
	02/09/2021	<0.15	<0.14 ,C	0.45	--
813-OUT-7	02/04/2021	<0.15	<0.14 ,C	1.3	--
	02/09/2021	<0.15	<0.14 ,C	0.49	--
813-OUT-9	02/04/2021	<0.15	<0.14 ,C	1.4	--
	02/09/2021	<0.15	<0.14 ,C	0.32	--
PG-OUT-1	02/04/2021	0.16	<0.14 ,C	1.4	--
	02/09/2021	<0.14	<0.14 ,C	0.23	--

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

TABLE 7
OUTDOOR AIR EVALUATION ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CA

Location	Sample Date	Tetrachloroethene (PCE) ($\mu g/m^3$)	trans-1,2-Dichloroethene ($\mu g/m^3$)	Trichloroethene (TCE) ($\mu g/m^3$)	Vinyl Chloride ($\mu g/m^3$)
PG-OUT-2	02/04/2021	<0.15	<0.14 ,C	1.5	--
	02/09/2021	<0.14	<0.14 ,C	0.40	--
PG-OUT-3	02/04/2021	<0.15	<0.14 ,C	1.7	--
	02/09/2021	<0.15	<0.14 ,C	0.51	--
PNPOFF-OUT-1	02/04/2021	<0.15	<0.14 ,C	0.88	--
	02/09/2021	<0.15	<0.14 ,C	0.22	--
PNPOFF-OUT-2	02/04/2021	<0.15	<0.14 ,C	0.94	--
	02/09/2021	<0.15	<0.14 ,C	0.22	--
PG-Center	02/24/2021	10	<0.67	67	<0.043
PG-Closet	02/24/2021	2.5	<0.65	38	0.049
PG-East	02/24/2021	4.0	<0.68	34	<0.044
PG-Moon	02/24/2021	29	1.8	250	0.15
PG-West	02/24/2021	7.0	0.73	63	<0.046

Notes:
C - Estimated concentration due to calculated uptake rate.
M - Reported value may be biased due to apparent matrix interferences.
Analysis of vinyl chloride cannot be performed by USEPA Method TO-17.

Figures

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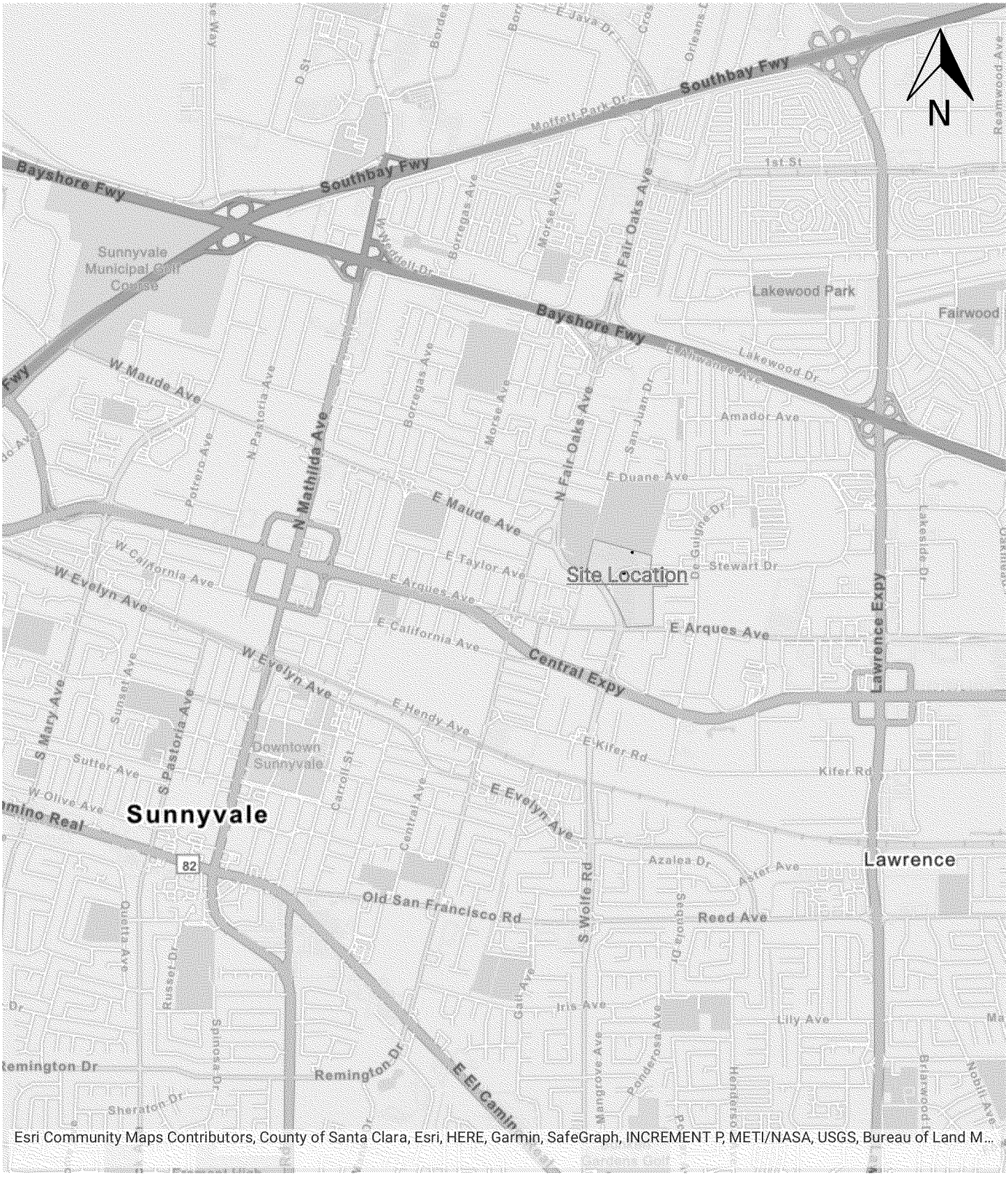
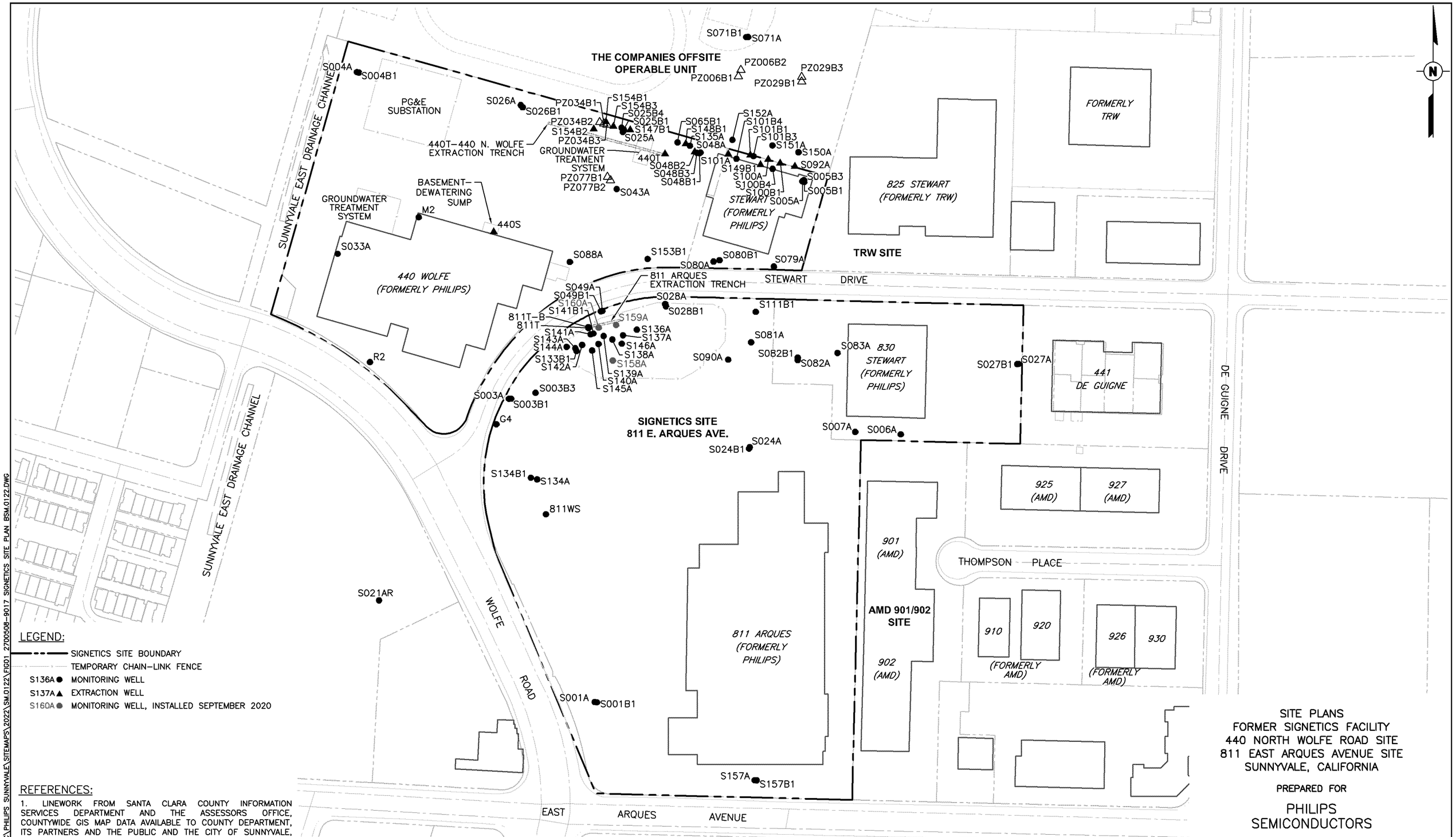


0 0.2 0.4mi

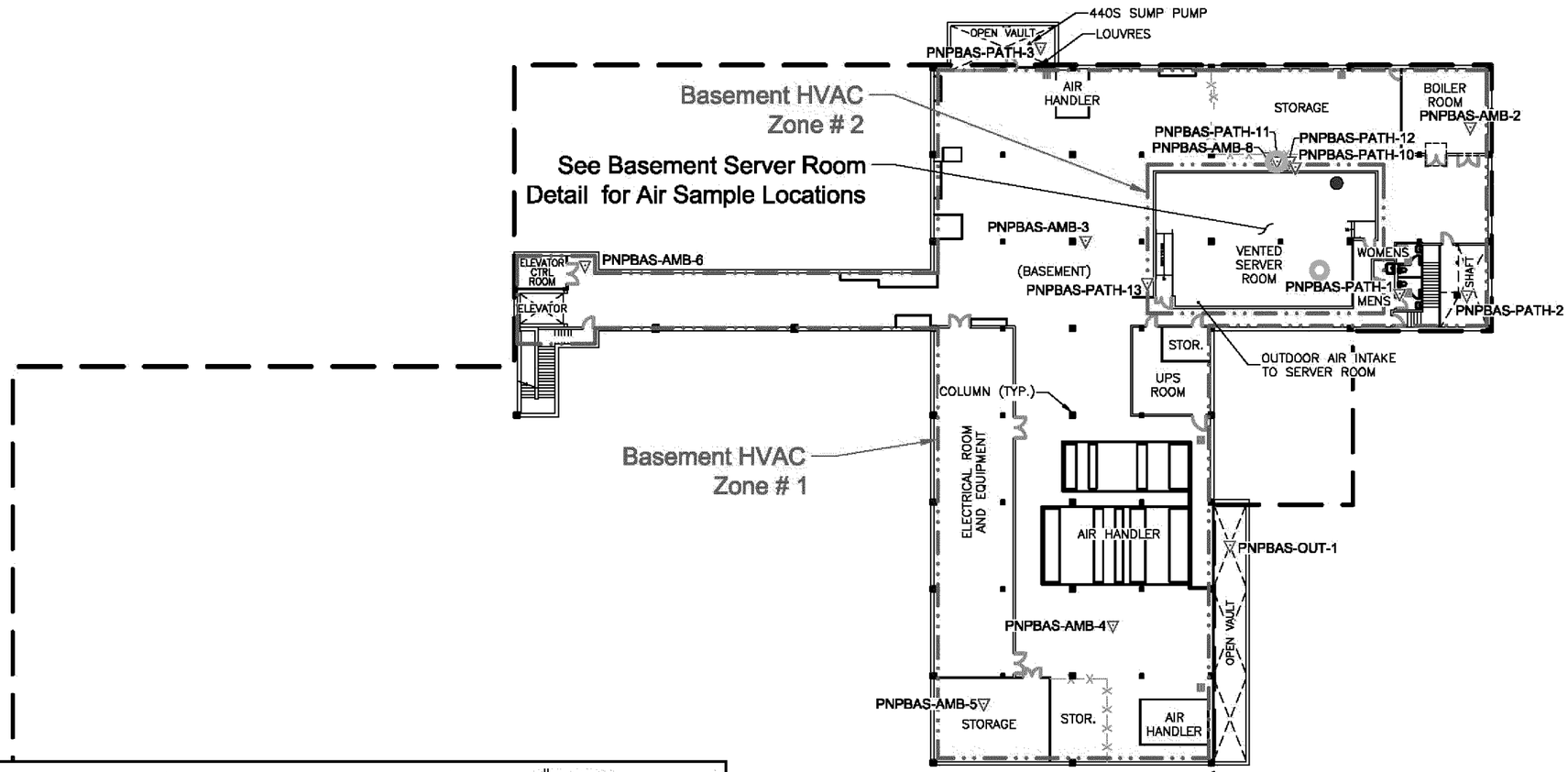
REV. 0 | 29 May 2020 | Final | DWN. BY: AT | CK'D BY: AE | AP'D BY: JWH

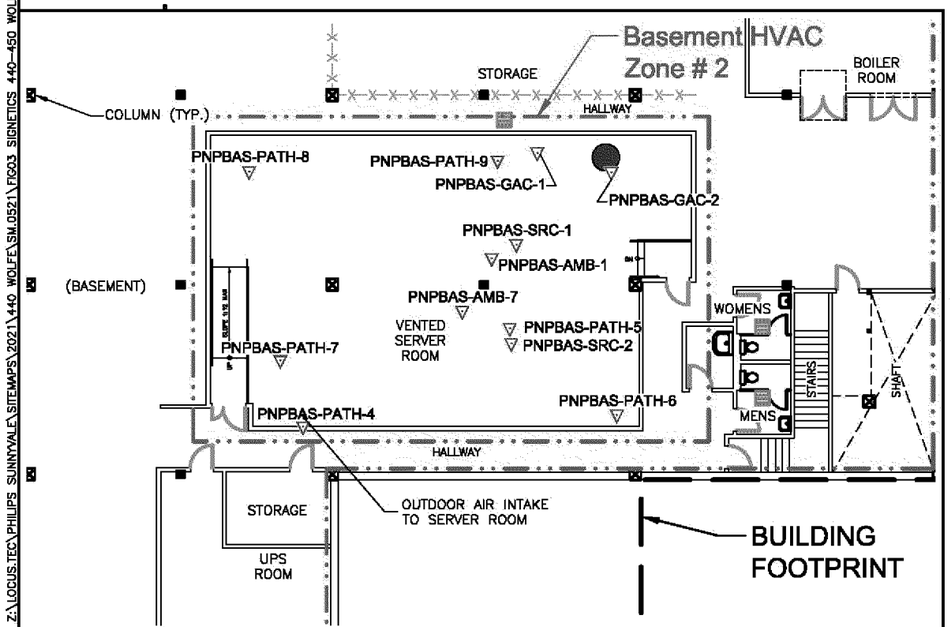
Locus TECHNOLOGIES

Figure 1. Site Location
Signetics Site
Sunnyvale, California



No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
3	01/21	REVISE SIGNETICS SITE BOUNDARY LINE	AJK	JG	AEG
2	12/20	ISSUED FOR SIGNETICS EAB REPORT	AJK	NL	AEG





BUILDING FOOTPRINT

BUILDING FOOTPRINT

Detail - Basement Server Room Air Sample Locations

0 20 40
SCALE IN FEET

LEGEND:

- SIGNETICS BUILDING 440 OUTLINE
- BASEMENT HVAC ZONES
- FLOOR DRAINS
- CARBTROL AIR PURIFICATION SYSTEM (CARBON DRUM)
- PNPBAS-AMB-1 AIR SAMPLING LOCATION
- SEALING MITIGATION LOCATION

REFERENCES:

1. LINEWORK FROM SANTA CLARA COUNTY INFORMATION SERVICES DEPARTMENT AND THE ASSESSORS OFFICE, COUNTYWIDE GIS MAP DATA AVAILABLE TO COUNTY DEPARTMENT, ITS PARTNERS AND THE PUBLIC AND THE CITY OF SUNNYVALE, CALIFORNIA GIS DATA, COPYRIGHT 2018.
2. SATELLITE IMAGERY U.S.G.S. EARTH EXPLORER™. THE ORTHOIMAGERY WAS EVALUATED BY THE U.S.G.S. AND MEETS THE NATIONAL MAP ACCURACY STANDARDS (95% CONFIDENCE). REPORT DATE JULY 24, 2015, COPYRIGHT 2018.

BASEMENT
BUILDING LAYOUT – 440 WOLFE
SIGNETICS SITE
SUNNYVALE, CALIFORNIA

PREPARED FOR

PHILIPS SEMICONDUCTORS

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
2	04/21	ADDITIONAL AIR SAMPLING ACTIVITIES	AJK	AEG	JWH
1	10/20	ISSUED FOR WOLFE AVENUE REPORT	AJK	AEG	JWH

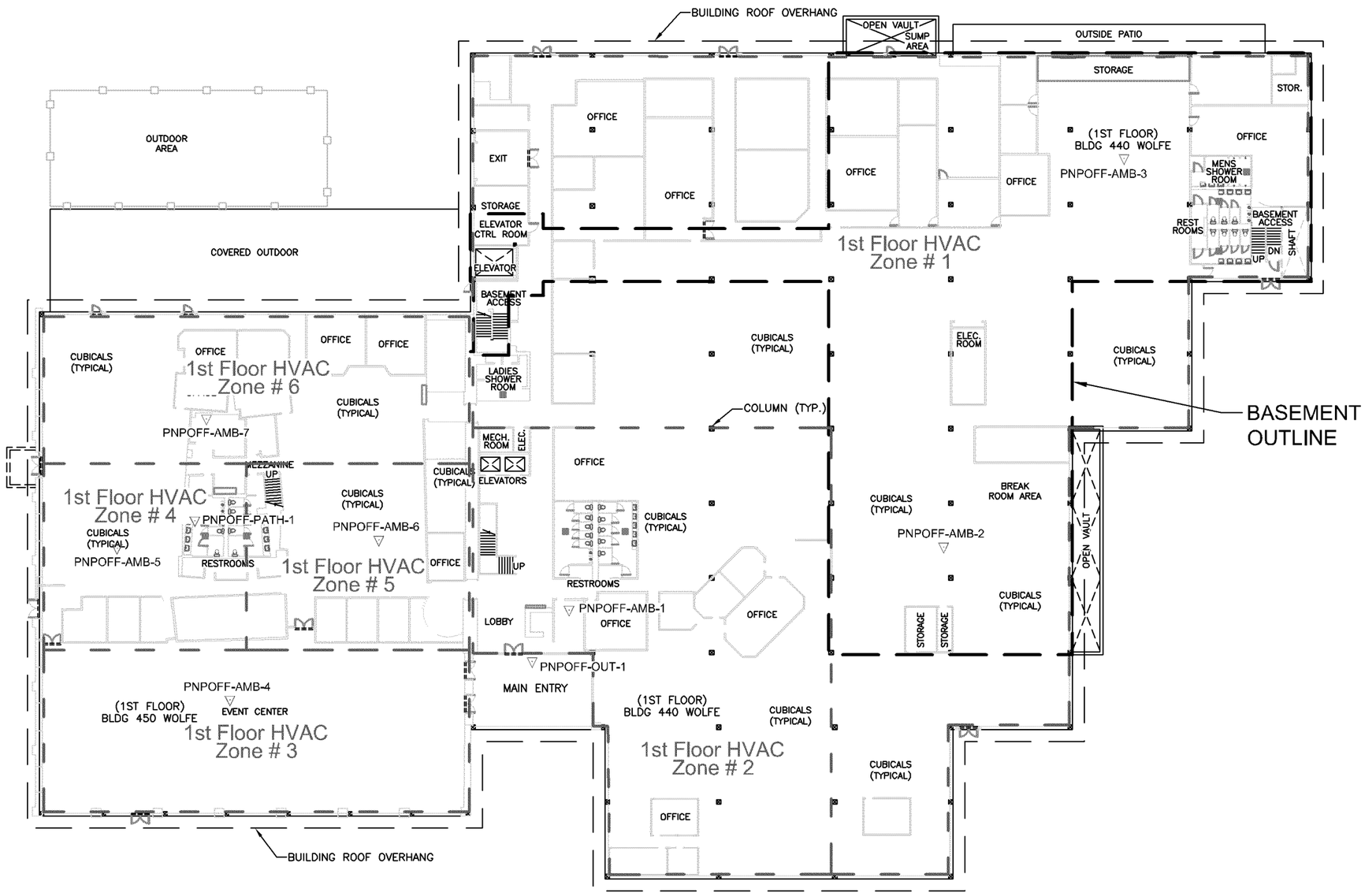
LOCUS TECHNOLOGIES

0 40 80
SCALE IN FEET

DRAWING NO. 27-006-E285

FIGURE 3

FILE NAME: Z:\LOCUS.TEC\PHILIPS SUNNYVALE\SITEMAPS\2021\440 WOLFE\SM.0521\FIG03 SIGNETICS 440-450 WOLFE BLDG BSM-DET.0521.DWG



LEGEND:

- SIGNETICS BUILDING 440 OUTLINE
- BUILDING HVAC ZONES
- FLOOR DRAINS
- PNPOFF-AMB-1▽ AIR SAMPLING LOCATION

REFERENCES:

1. LINEWORK FROM SANTA CLARA COUNTY INFORMATION SERVICES DEPARTMENT AND THE ASSESSORS OFFICE, COUNTYWIDE GIS MAP DATA AVAILABLE TO COUNTY DEPARTMENT, ITS PARTNERS AND THE PUBLIC AND THE CITY OF SUNNYVALE, CALIFORNIA GIS DATA, COPYRIGHT 2018.
2. SATELLITE IMAGERY U.S.G.S. EARTH EXPLORER™. THE ORTHOIMAGERY WAS EVALUATED BY THE U.S.G.S. AND MEETS THE NATIONAL MAP ACCURACY STANDARDS (95% CONFIDENCE). REPORT DATE JULY 24, 2015, COPYRIGHT 2018.

FIRST FLOOR
BUILDING LAYOUT – 440 WOLFE
SIGNETICS SITE
SUNNYVALE, CALIFORNIA

PREPARED FOR

PHILIPS SEMICONDUCTORS

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	10/20	ISSUED FOR WOLFE AVENUE REPORT	AJK	AEG	JWH

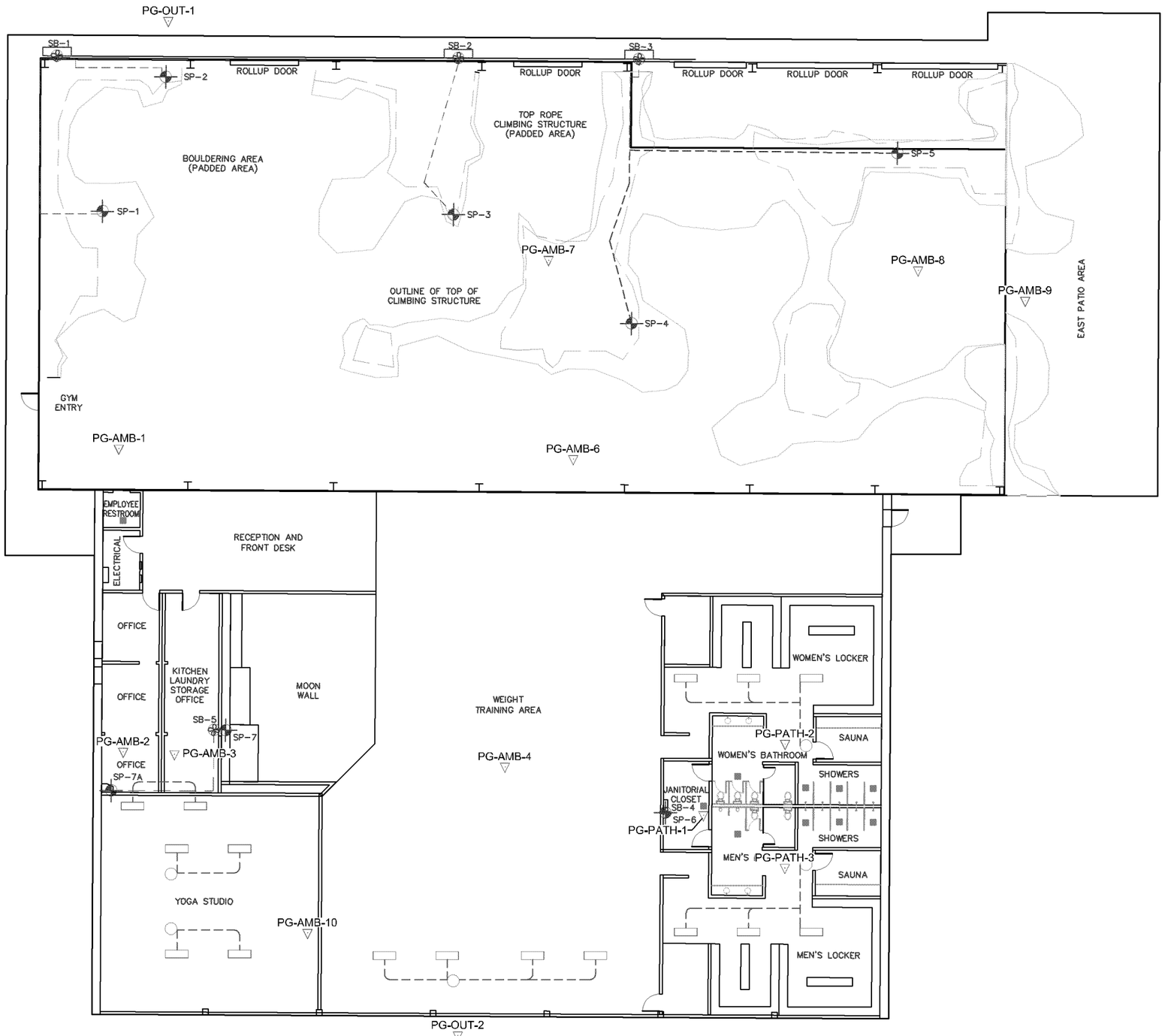
LOCUS TECHNOLOGIES

0 40 80
SCALE IN FEET

DRAWING NO. 27-006-E285

FIGURE 4

FILE NAME: Z:\LOCUS.TEC\PHILIPS SUNNYVALE\SITEMAPS\2021\SM.0421\FIG03,04&05 SIGNETICS 440-450 WOLFE BLDG BSM.0421.DWG



LEGEND:

- SIGNETICS SITE BOUNDARY
- FLOOR DRAINS
- HVAC EXTRACTION VENT
- HVAC ROOF FAN
- HVAC DUCTING
- SB-2 SUCTION BLOWER
- SP-3 SUCTION POINT
- SUCTION DUCT
- PG-AMB-10 AIR SAMPLING LOCATION

REFERENCES:

1. LINEWORK FROM SANTA CLARA COUNTY INFORMATION SERVICES DEPARTMENT AND THE ASSESSORS OFFICE, COUNTYWIDE GIS MAP DATA AVAILABLE TO COUNTY DEPARTMENT, ITS PARTNERS AND THE PUBLIC AND THE CITY OF SUNNYVALE, CALIFORNIA GIS DATA, COPYRIGHT 2018.
2. SATELLITE IMAGERY U.S.G.S. EARTH EXPLORER™. THE ORTHOIMAGERY WAS EVALUATED BY THE U.S.G.S. AND MEETS THE NATIONAL MAP ACCURACY STANDARDS (95% CONFIDENCE). REPORT DATE JULY 24, 2015, COPYRIGHT 2018.

INDOOR AIR SAMPLE LOCATIONS
SIGNETICS SITE
SUNNYVALE, CALIFORNIA

PREPARED FOR

PHILIPS
SEMICONDUCTORS

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1	07/20	ISSUED FOR STEWART DRIVE REPORT	AJK	NL	AEG

LOCUS TECHNOLOGIES

0 20 40
SCALE IN FEET

DRAWING NO. 27-006-E284

FIGURE 5

FILE NAME: Z:\LOCUS.TEC\PHILIPS SUNNYVALE\SITEMAPS\2021\SM.0421\FIG05 SIGNETICS 815 STEWART BLDG BSM.0421.DWG

Rev.0 | 21 April 2021 | DRAFT | DWN BY: NML | AP'D BY : AEG

Figure 6 Outdoor Air Evaluation - Sample Locations Signetics Site

Appendix A
Historical Indoor Air Results

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APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	Date Sampled	Sample Purpose	Report Result	Report Result	Report Result	Report Result	Report Result
BLANK-PG	09/17/2018	FB	<0.36	<0.12	<0.13	<0.11	NT
BLANK-PG	10/25/2018	FB	<0.34	<0.12	<0.13	<0.10	NT
BLANK-PG	02/18/2019	FB	<0.36	<0.12	<0.13	<0.11	NT
BLANK-PG	10/29/2019	FB	<0.35	<0.12	<0.13	<0.11	NT
BLANK-PG	12/17/2019	FB	<0.34	<0.12	<0.12	<0.10	NT
BLANK-PNP	08/14/2018	FB	<0.35	<0.12	<0.13	<0.10	NT
BLANK-PNP	05/07/2019	FB	<0.34	<0.12	<0.12	<0.10	NT
BLANK-PNP	12/19/2019	FB	<0.34	<0.12	<0.12	<0.10	NT
BLANK-PNP	12/08/2020	FB	<0.35	<0.12	<0.13	<0.10	<0.091
PG-AMB-1	09/17/2018	FD	<0.36	0.67 C	<0.13	<0.11	NT
PG-AMB-1	09/17/2018	REG	<0.36	0.67 C	<0.13	<0.11	NT
PG-AMB-1	10/25/2018	FD	<0.35	0.63 C	<0.13	<0.11	NT
PG-AMB-1	10/25/2018	REG	<0.35	0.56 C	<0.13	<0.11	NT
PG-AMB-1	01/22/2019	REG	<0.37	0.51 C	<0.14	<0.11	NT
PG-AMB-1	02/18/2019	REG	<0.36	0.5	<0.13	<0.11	NT
PG-AMB-1	05/07/2019	REG	0.65	3.3 C	0.48 C	2.2 C	NT
PG-AMB-1	10/29/2019	REG	<0.36	0.66	<0.13	<0.11	NT
PG-AMB-1	12/17/2019	REG	<0.36	0.41 C	<0.13	<0.11	NT
PG-AMB-2	09/17/2018	REG	<0.35	0.59 C	<0.13	<0.11	NT
PG-AMB-2	10/25/2018	REG	<0.35	0.66 C	<0.13	<0.11	NT
PG-AMB-2	01/22/2019	REG	<0.36	0.43 C	<0.13	<0.11	NT
PG-AMB-2	02/18/2019	REG	<0.36	0.38	<0.13	<0.11	NT
PG-AMB-2	05/07/2019	REG	<0.35	0.49 C	<0.13	<0.11	NT
PG-AMB-2	10/29/2019	REG	<0.35	0.62	<0.13	<0.11	NT
PG-AMB-2	12/17/2019	REG	<0.36	0.44 C	<0.13	<0.11	NT
PG-AMB-3	09/17/2018	REG	<0.35	0.67 C	<0.13	<0.11	NT

Notes:
ND - Denotes result was below the detection limit
NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	Date Sampled	Sample Purpose	Report Result	Report Result	Report Result	Report Result	Report Result
PG-AMB-3	10/25/2018	REG	<0.35	0.68 C	<0.13	<0.10	NT
PG-AMB-3	01/22/2019	REG	<0.36	0.44 C	<0.13	<0.11	NT
PG-AMB-3	02/18/2019	REG	<0.36	0.46	<0.13	<0.11	NT
PG-AMB-3	02/18/2019	REG	<0.36	0.49	<0.13	<0.11	NT
PG-AMB-3	05/07/2019	FD	<0.35	0.47 C	<0.13	<0.11	NT
PG-AMB-3	05/07/2019	REG	<0.35	0.45 C	<0.13	<0.11	NT
PG-AMB-3	10/29/2019	FD	<0.36	0.58	<0.13	<0.11	NT
PG-AMB-3	10/29/2019	REG	<0.36	0.58	<0.13	<0.11	NT
PG-AMB-3	12/17/2019	FD	<0.36	0.43 C	<0.13	<0.11	NT
PG-AMB-3	12/17/2019	REG	<0.36	0.42 C	<0.13	<0.11	NT
PG-AMB-4	09/17/2018	REG	<0.35	0.64 C	<0.13	<0.11	NT
PG-AMB-4	10/25/2018	REG	<0.35	0.61 C	<0.13	<0.11	NT
PG-AMB-4	01/22/2019	REG	<0.36	0.45 C	<0.13	<0.11	NT
PG-AMB-4	02/18/2019	REG	<0.36	0.53	<0.13	<0.11	NT
PG-AMB-4	05/07/2019	REG	<0.36	0.48 C	<0.13	<0.11	NT
PG-AMB-4	10/29/2019	REG	<0.36	0.63	<0.13	<0.11	NT
PG-AMB-4	12/17/2019	REG	<0.36	0.47 C	<0.13	<0.11	NT
PG-AMB-5	09/17/2018	REG	<0.35	0.62 C	<0.13	<0.11	NT
PG-AMB-5	10/25/2018	REG	<0.35	0.59 C	<0.13	<0.10	NT
PG-AMB-5	01/22/2019	REG	<0.36	0.46 C	<0.13	<0.11	NT
PG-AMB-5	02/18/2019	REG	<0.36	0.46	<0.13	<0.11	NT
PG-AMB-5	05/07/2019	REG	<0.35	0.46 C	<0.13	<0.11	NT
PG-AMB-5	10/29/2019	REG	<0.36	0.57	<0.13	<0.11	NT
PG-AMB-5	12/17/2019	REG	<0.37	0.44 C	<0.14	<0.11	NT
PG-AMB-6	09/17/2018	REG	<0.36	0.62 C	<0.13	<0.11	NT
PG-AMB-6	10/25/2018	REG	<0.35	0.58 C	<0.13	<0.11	NT

Notes:
ND - Denotes result was below the detection limit
NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	Date Sampled	Sample Purpose	Report Result	Report Result	Report Result	Report Result	Report Result
PG-AMB-6	01/22/2019	REG	<0.37	0.49 C	<0.14	<0.11	NT
PG-AMB-6	02/18/2019	REG	<0.36	0.52	<0.13	<0.11	NT
PG-AMB-6	05/07/2019	REG	<0.36	0.51 C	<0.13	<0.11	NT
PG-AMB-6	10/29/2019	REG	<0.36	0.58	<0.13	<0.11	NT
PG-AMB-6	12/17/2019	REG	<0.37	0.42 C	<0.14	<0.11	NT
PG-AMB-7	09/17/2018	REG	<0.36	0.62 C	<0.13	<0.11	NT
PG-AMB-7	10/25/2018	REG	<0.35	0.56 C	<0.13	<0.11	NT
PG-AMB-7	01/22/2019	REG	<0.37	0.51 C	<0.14	<0.11	NT
PG-AMB-7	02/18/2019	REG	<0.36	0.52	<0.13	<0.11	NT
PG-AMB-7	05/07/2019	REG	<0.36	0.49 C	<0.13	<0.11	NT
PG-AMB-7	10/29/2019	REG	<0.35	0.58	<0.13	<0.11	NT
PG-AMB-7	12/17/2019	REG	<0.37	0.42 C	<0.14	<0.11	NT
PG-AMB-8	09/17/2018	REG	<0.36	0.61 C	<0.13	<0.11	NT
PG-AMB-8	10/25/2018	REG	<0.35	0.56 C	<0.13	<0.11	NT
PG-AMB-8	01/22/2019	REG	<0.37	0.52 C	<0.14	<0.11	NT
PG-AMB-8	02/18/2019	REG	<0.36	0.52	<0.13	<0.11	NT
PG-AMB-8	05/07/2019	REG	<0.36	0.48 C	<0.13	<0.11	NT
PG-AMB-8	12/17/2019	REG	<0.37	0.61 C	<0.14	<0.11	NT
PG-AMB-9	09/17/2018	REG	<0.36	0.58 C	<0.13	<0.11	NT
PG-AMB-9	10/25/2018	REG	<0.35	0.58 C	<0.13	<0.11	NT
PG-AMB-9	01/22/2019	REG	<0.38	0.55 C	<0.14	<0.11	NT
PG-AMB-9	02/18/2019	REG	<0.36	0.51	<0.13	<0.11	NT
PG-AMB-9	05/07/2019	REG	<0.36	0.49 C	<0.13	<0.11	NT
PG-AMB-9	10/29/2019	REG	<0.36	0.62	<0.13	<0.11	NT
PG-AMB-9	12/17/2019	REG	<0.37	0.52 C	<0.14	<0.11	NT
PG-OUT-1	09/17/2018	REG	<0.36	0.64 C	<0.13	<0.11	NT

Notes:
ND - Denotes result was below the detection limit
NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	Date Sampled	Sample Purpose	Report Result	Report Result	Report Result	Report Result	Report Result
PG-OUT-1	10/25/2018	REG	<0.35	0.60 C	<0.13	<0.11	NT
PG-OUT-1	01/22/2019	REG	<0.38	0.56 C	<0.14	<0.12	NT
PG-OUT-1	02/18/2019	REG	<0.38	0.49	<0.14	<0.11	NT
PG-OUT-1	05/07/2019	REG	<0.36	0.48 C	<0.13	<0.11	NT
PG-OUT-1	10/29/2019	REG	<0.37	0.74	<0.14	<0.11	NT
PG-OUT-1	12/17/2019	REG	<0.37	0.52 C	<0.14	<0.11	NT
PG-OUT-2	02/18/2019	REG	<0.37	0.51	<0.14	<0.11	NT
PG-OUT-2	05/07/2019	REG	<0.36	0.53 C	<0.13	<0.11	NT
PG-OUT-2	10/29/2019	REG	<0.35	0.8	<0.13	<0.11	NT
PG-OUT-2	12/17/2019	REG	<0.37	0.49 C	<0.14	<0.11	NT
PNPBAS-AMB-1	08/14/2018	REG	<0.36	0.87 C	<0.13	<0.11	NT
PNPBAS-AMB-1	01/22/2019	REG	<0.36	0.47 C	<0.13	<0.11	NT
PNPBAS-AMB-1	02/18/2019	REG	<0.36	0.43	<0.13	<0.11	NT
PNPBAS-AMB-1	05/07/2019	REG	<0.37	0.69 C	<0.14	<0.11	NT
PNPBAS-AMB-1	10/29/2019	REG	<0.37	0.46	<0.14	<0.11	NT
PNPBAS-AMB-1	12/19/2019	REG	<0.37	1.4 C	<0.14	<0.11	NT
PNPBAS-AMB-1	12/08/2020	REG	<0.38	1.5 C	<0.14	<0.11	0.17 C
PNPBAS-AMB-2	08/14/2018	REG	<0.35	0.46 C	<0.13	<0.11	NT
PNPBAS-AMB-2	01/22/2019	REG	<0.34	0.52 C	<0.13	<0.10	NT
PNPBAS-AMB-2	02/18/2019	REG	<0.36	0.44	<0.13	<0.11	NT
PNPBAS-AMB-2	05/07/2019	REG	<0.34	0.47 C	<0.13	<0.10	NT
PNPBAS-AMB-2	10/29/2019	REG	<0.35	0.49	<0.13	<0.11	NT
PNPBAS-AMB-2	12/19/2019	REG	<0.35	0.44 C	<0.13	<0.11	NT
PNPBAS-AMB-2	12/08/2020	REG	<0.36	0.67 C	<0.13	<0.11	0.22 C
PNPBAS-AMB-3	08/14/2018	REG	<0.36	0.48 C	<0.13	<0.11	NT
PNPBAS-AMB-3	01/22/2019	REG	<0.36	0.48 C	<0.13	<0.11	NT

Notes:
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NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	Date Sampled	Sample Purpose	Report Result	Report Result	Report Result	Report Result	Report Result
PNPBAS-AMB-3	02/18/2019	REG	<0.37	0.49	<0.14	<0.11	NT
PNPBAS-AMB-3	05/07/2019	REG	<0.36	0.41 C	<0.13	<0.11	NT
PNPBAS-AMB-3	10/29/2019	REG	<0.36	0.52	<0.13	<0.11	NT
PNPBAS-AMB-3	12/19/2019	REG	<0.36	0.45 C	<0.13	<0.11	NT
PNPBAS-AMB-3	12/08/2020	REG	<0.36	0.62 C	<0.13	<0.11	0.23 C
PNPBAS-AMB-4	08/14/2018	REG	<0.36	0.48 C	<0.13	<0.11	NT
PNPBAS-AMB-4	01/22/2019	REG	<0.36	0.49 C	<0.13	<0.11	NT
PNPBAS-AMB-4	02/18/2019	REG	<0.36	0.51	<0.13	<0.11	NT
PNPBAS-AMB-4	05/07/2019	REG	<0.37	0.50 C	<0.14	<0.11	NT
PNPBAS-AMB-4	10/29/2019	REG	<0.36	0.54	<0.13	<0.11	NT
PNPBAS-AMB-4	12/19/2019	REG	<0.36	0.47 C	<0.13	<0.11	NT
PNPBAS-AMB-4	12/08/2020	REG	<0.36	0.59 C	<0.13	<0.11	0.27 C
PNPBAS-AMB-5	08/14/2018	FD	<0.35	0.47 C	<0.13	<0.11	NT
PNPBAS-AMB-5	08/14/2018	REG	<0.35	0.46 C	<0.13	<0.11	NT
PNPBAS-AMB-5	01/22/2019	REG	<0.36	0.44 C	<0.13	<0.11	NT
PNPBAS-AMB-5	02/18/2019	REG	<0.36	0.46	<0.13	<0.11	NT
PNPBAS-AMB-5	05/07/2019	REG	<0.36	0.42 C	<0.13	<0.11	NT
PNPBAS-AMB-5	10/29/2019	REG	<0.35	0.48	<0.13	<0.11	NT
PNPBAS-AMB-5	12/19/2019	REG	<0.35	0.38 C	<0.13	<0.11	NT
PNPBAS-AMB-5	12/08/2020	FD	<0.35	0.52 C	<0.13	<0.11	0.20 C
PNPBAS-AMB-5	12/08/2020	REG	<0.35	0.58 C	<0.13	<0.11	0.23 C
PNPBAS-AMB-6	08/14/2018	REG	<0.36	0.51 C	<0.13	<0.11	NT
PNPBAS-AMB-6	01/22/2019	REG	<0.36	0.47 C	<0.13	<0.11	NT
PNPBAS-AMB-6	02/18/2019	REG	<0.36	0.47	<0.13	<0.11	NT
PNPBAS-AMB-6	05/07/2019	REG	<0.36	0.44 C	<0.13	<0.11	NT
PNPBAS-AMB-6	10/29/2019	REG	<0.35	0.49	<0.13	<0.11	NT

Notes:
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C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	Date Sampled	Sample Purpose	Report Result	Report Result	Report Result	Report Result	Report Result
PNPBAS-AMB-6	12/19/2019	FD	<0.35	0.46 C	<0.13	<0.11	NT
PNPBAS-AMB-6	12/19/2019	REG	<0.35	0.44 C	<0.13	<0.11	NT
PNPBAS-AMB-6	12/08/2020	REG	<0.36	0.68 C	<0.13	<0.11	0.19 C
PNPBAS-GAC-1	12/08/2020	REG	<0.39	1.6 C	<0.14	<0.12	0.20 C
PNPBAS-GAC-2	12/08/2020	REG	<0.38	0.37 C	<0.14	<0.12	<0.10
PNPBAS-OUT-1	12/08/2020	REG	<0.36	0.61 C	<0.13	<0.11	0.27 C
PNPBAS-PATH-1	12/08/2020	REG	<0.37	0.80 C	<0.14	<0.11	0.36 C
PNPBAS-PATH-2	12/08/2020	REG	<0.36	0.72 C	<0.13	<0.11	0.23 C
PNPBAS-PATH-3	12/08/2020	REG	<0.36	0.64 C	<0.13	<0.11	0.26 C
PNPBAS-PATH-4	12/08/2020	REG	<0.37	1.5 C	<0.14	<0.11	0.17 C
PNPBAS-PATH-5	12/08/2020	REG	<0.38	1.4 C	<0.14	<0.12	0.16 C
PNPOFF-AMB-1	08/14/2018	REG	<0.36	0.60 C	<0.13	<0.11	NT
PNPOFF-AMB-1	01/22/2019	REG	<0.36	0.45 C	<0.13	<0.11	NT
PNPOFF-AMB-1	02/18/2019	REG	<0.36	0.42	<0.13	<0.11	NT
PNPOFF-AMB-1	05/07/2019	FD	<0.36	0.40 C	<0.13	<0.11	NT
PNPOFF-AMB-1	05/07/2019	REG	<0.36	0.46 C	<0.13	<0.11	NT
PNPOFF-AMB-1	10/29/2019	REG	<0.35	0.56	<0.13	<0.11	NT
PNPOFF-AMB-1	12/19/2019	REG	<0.35	0.43 C	<0.13	<0.11	NT
PNPOFF-AMB-1	12/08/2020	REG	<0.36	0.51 C	<0.13	<0.11	0.19 C
PNPOFF-AMB-2	12/08/2020	REG	<0.35	0.44 C	<0.13	<0.11	0.16 C
PNPOFF-AMB-3	12/08/2020	REG	<0.35	0.48 C	<0.13	<0.11	0.20 C
PNPOFF-AMB-4	12/08/2020	REG	<0.36	0.47 C	<0.13	<0.11	0.19 C
PNPOFF-AMB-5	12/08/2020	REG	<0.36	0.49 C	<0.13	<0.11	0.19 C
PNPOFF-AMB-6	12/08/2020	REG	<0.36	0.50 C	<0.13	<0.11	0.16 C
PNPOFF-AMB-7	12/08/2020	REG	<0.35	0.50 C	<0.13	<0.11	0.18 C
PNPOFF-OUT-1	08/14/2018	REG	<0.36	0.58 C	<0.13	<0.11	NT

Notes:
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C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			1,1,1-Trichloroethane (TCA)	1,1,2-Trichlorotrifluoroethane (CFC 113)	1,1-Dichloroethane (1,1-DCA)	1,1-Dichloroethene (1,1-DCE)	Chloroform
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result	Report Result
PNPOFF-OUT-1	01/22/2019	REG	<0.36	0.54 C	<0.13	<0.11	NT
PNPOFF-OUT-1	02/18/2019	REG	<0.37	0.56	<0.14	<0.11	NT
PNPOFF-OUT-1	05/07/2019	REG	<0.36	0.45 C	<0.13	<0.11	NT
PNPOFF-OUT-1	10/29/2019	REG	<0.36	0.47	<0.13	<0.11	NT
PNPOFF-OUT-1	12/19/2019	REG	<0.34	0.44 C	<0.12	<0.10	NT
PNPOFF-OUT-1	12/08/2020	REG	<0.35	0.53 C	<0.13	<0.11	0.25 C
PNPOFF-PATH-1	12/08/2020	REG	<0.36	0.47 C	<0.13	<0.11	0.21 C

Notes:
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NT - Sample not tested for the given parameter
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APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
BLANK-PG	09/17/2018	FB	<0.13	<0.14	<0.14	<0.13
BLANK-PG	10/25/2018	FB	<0.13	<0.14	<0.13	<0.13
BLANK-PG	02/18/2019	FB	<0.13	<0.14	<0.14	<0.13
BLANK-PG	10/29/2019	FB	<0.13	<0.14	<0.14	<0.13
BLANK-PG	12/17/2019	FB	<0.12	<0.13	<0.13	<0.12
BLANK-PNP	08/14/2018	FB	<0.13	<0.14	<0.13	<0.13
BLANK-PNP	05/07/2019	FB	<0.13	<0.13	<0.13	<0.12
BLANK-PNP	12/19/2019	FB	<0.12	<0.13	<0.13	<0.12
BLANK-PNP	12/08/2020	FB	<0.13	<0.14	<0.13	<0.13
PG-AMB-1	09/17/2018	FD	<0.13	<0.14	<0.14	0.32
PG-AMB-1	09/17/2018	REG	<0.13	<0.14	<0.14	0.31
PG-AMB-1	10/25/2018	FD	<0.13	<0.14	<0.14	1
PG-AMB-1	10/25/2018	REG	<0.13	<0.14	<0.14	1
PG-AMB-1	01/22/2019	REG	<0.14	0.18	<0.14	3.8
PG-AMB-1	02/18/2019	REG	<0.14	<0.14	<0.14	0.19
PG-AMB-1	05/07/2019	REG	1.1 C	2	1.4 C	4.3
PG-AMB-1	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-1	12/17/2019	REG	<0.13	<0.14	<0.14	0.31
PG-AMB-2	09/17/2018	REG	<0.13	<0.14	<0.14	0.3
PG-AMB-2	10/25/2018	REG	<0.13	<0.14	<0.14	0.43
PG-AMB-2	01/22/2019	REG	<0.13	0.18	<0.14	3.5
PG-AMB-2	02/18/2019	REG	<0.14	<0.14	<0.14	<0.13
PG-AMB-2	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-2	10/29/2019	REG	<0.13	<0.14	<0.14	0.14
PG-AMB-2	12/17/2019	REG	<0.13	<0.14	<0.14	0.33
PG-AMB-3	09/17/2018	REG	<0.13	<0.14	<0.14	0.3

Notes:
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NT - Sample not tested for the given parameter
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APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
PG-AMB-3	10/25/2018	REG	<0.13	<0.14	<0.13	1.2
PG-AMB-3	01/22/2019	REG	<0.13	0.2	<0.14	3.6
PG-AMB-3	02/18/2019	REG	<0.13	0.15	<0.14	0.19
PG-AMB-3	02/18/2019	REG	<0.13	<0.14	<0.14	0.18
PG-AMB-3	05/07/2019	FD	<0.13	<0.14	<0.14	<0.13
PG-AMB-3	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-3	10/29/2019	FD	<0.13	<0.14	<0.14	0.13
PG-AMB-3	10/29/2019	REG	<0.13	<0.14	<0.14	0.13
PG-AMB-3	12/17/2019	FD	<0.13	<0.14	<0.14	0.29
PG-AMB-3	12/17/2019	REG	<0.13	<0.14	<0.14	0.29
PG-AMB-4	09/17/2018	REG	<0.13	<0.14	<0.14	0.3
PG-AMB-4	10/25/2018	REG	<0.13	<0.14	<0.14	1.4
PG-AMB-4	01/22/2019	REG	<0.13	0.16	<0.14	4
PG-AMB-4	02/18/2019	REG	<0.13	<0.14	<0.14	0.2
PG-AMB-4	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-4	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-4	12/17/2019	REG	<0.14	<0.14	<0.14	0.31
PG-AMB-5	09/17/2018	REG	<0.13	<0.14	<0.14	0.31
PG-AMB-5	10/25/2018	REG	<0.13	<0.14	<0.13	1.6
PG-AMB-5	01/22/2019	REG	<0.14	0.15	<0.14	4.1
PG-AMB-5	02/18/2019	REG	<0.13	<0.14	<0.14	0.2
PG-AMB-5	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-5	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-5	12/17/2019	REG	<0.14	<0.14	<0.14	0.34
PG-AMB-6	09/17/2018	REG	<0.13	<0.14	<0.14	0.27
PG-AMB-6	10/25/2018	REG	<0.13	<0.14	<0.14	1.3

Notes:
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NT - Sample not tested for the given parameter
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APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
PG-AMB-6	01/22/2019	REG	<0.14	0.15	<0.14	4.2
PG-AMB-6	02/18/2019	REG	<0.14	<0.14	<0.14	0.2
PG-AMB-6	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-6	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-6	12/17/2019	REG	<0.14	<0.14	<0.14	0.35
PG-AMB-7	09/17/2018	REG	<0.13	<0.14	<0.14	0.28
PG-AMB-7	10/25/2018	REG	<0.13	<0.14	<0.14	1.1
PG-AMB-7	01/22/2019	REG	<0.14	0.16	<0.14	4
PG-AMB-7	02/18/2019	REG	<0.14	<0.14	<0.14	0.2
PG-AMB-7	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-7	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-7	12/17/2019	REG	<0.14	<0.14	<0.14	0.34
PG-AMB-8	09/17/2018	REG	<0.13	<0.14	<0.14	0.3
PG-AMB-8	10/25/2018	REG	<0.13	<0.14	<0.14	1.5
PG-AMB-8	01/22/2019	REG	<0.14	0.15	<0.14	4.2
PG-AMB-8	02/18/2019	REG	<0.14	<0.14	<0.14	0.2
PG-AMB-8	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-8	12/17/2019	REG	<0.14	<0.14	<0.14	0.34
PG-AMB-9	09/17/2018	REG	<0.13	<0.14	<0.14	0.43
PG-AMB-9	10/25/2018	REG	<0.13	<0.14	<0.14	1.7
PG-AMB-9	01/22/2019	REG	<0.14	<0.15	<0.14	4.8
PG-AMB-9	02/18/2019	REG	<0.14	<0.14	<0.14	0.23
PG-AMB-9	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-9	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-AMB-9	12/17/2019	REG	<0.14	<0.14	<0.14	0.32
PG-OUT-1	09/17/2018	REG	<0.13	<0.14	<0.14	0.39

Notes:
ND - Denotes result was below the detection limit
NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
PG-OUT-1	10/25/2018	REG	<0.13	<0.14	<0.14	1.5
PG-OUT-1	01/22/2019	REG	<0.14	<0.15	<0.15	3.6
PG-OUT-1	02/18/2019	REG	<0.14	<0.15	<0.14	0.18
PG-OUT-1	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-OUT-1	10/29/2019	REG	<0.14	<0.14	<0.14	<0.14
PG-OUT-1	12/17/2019	REG	<0.14	<0.14	<0.14	0.28
PG-OUT-2	02/18/2019	REG	<0.14	<0.14	<0.14	0.21
PG-OUT-2	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-OUT-2	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PG-OUT-2	12/17/2019	REG	<0.14	<0.14	<0.14	0.35
PNPBAS-AMB-1	08/14/2018	REG	1.8 C	0.16	<0.14	5.7
PNPBAS-AMB-1	01/22/2019	REG	0.47 C	0.16	<0.14	3.6
PNPBAS-AMB-1	02/18/2019	REG	0.24	<0.14	<0.14	0.82
PNPBAS-AMB-1	05/07/2019	REG	1.8 C	<0.14	<0.14	5
PNPBAS-AMB-1	10/29/2019	REG	0.53	<0.14	<0.14	3.7
PNPBAS-AMB-1	12/19/2019	REG	2.2 C	0.16	<0.14	5.3
PNPBAS-AMB-1	12/08/2020	REG	2.2 C	0.21	<0.15	6.1
PNPBAS-AMB-2	08/14/2018	REG	<0.13	<0.14	<0.14	<0.13
PNPBAS-AMB-2	01/22/2019	REG	<0.13	<0.14	<0.13	2.4
PNPBAS-AMB-2	02/18/2019	REG	<0.13	<0.14	<0.14	0.26
PNPBAS-AMB-2	05/07/2019	REG	<0.13	<0.14	<0.13	0.49
PNPBAS-AMB-2	10/29/2019	REG	<0.13	<0.14	<0.14	0.24
PNPBAS-AMB-2	12/19/2019	REG	<0.13	<0.14	<0.14	1.2
PNPBAS-AMB-2	12/08/2020	REG	<0.13	<0.14	<0.14	0.5
PNPBAS-AMB-3	08/14/2018	REG	<0.13	<0.14	<0.14	<0.13
PNPBAS-AMB-3	01/22/2019	REG	<0.14	<0.14	<0.14	2

Notes:
ND - Denotes result was below the detection limit
NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
PNPBAS-AMB-3	02/18/2019	REG	<0.14	<0.14	<0.14	0.18
PNPBAS-AMB-3	05/07/2019	REG	<0.14	<0.14	<0.14	<0.13
PNPBAS-AMB-3	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PNPBAS-AMB-3	12/19/2019	REG	<0.13	<0.14	<0.14	1.1
PNPBAS-AMB-3	12/08/2020	REG	<0.13	<0.14	<0.14	0.39
PNPBAS-AMB-4	08/14/2018	REG	<0.13	<0.14	<0.14	<0.13
PNPBAS-AMB-4	01/22/2019	REG	<0.13	<0.14	<0.14	2.1
PNPBAS-AMB-4	02/18/2019	REG	<0.13	<0.14	<0.14	0.18
PNPBAS-AMB-4	05/07/2019	REG	<0.14	<0.14	<0.14	<0.14
PNPBAS-AMB-4	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PNPBAS-AMB-4	12/19/2019	REG	<0.14	<0.14	<0.14	1.2
PNPBAS-AMB-4	12/08/2020	REG	<0.13	<0.14	<0.14	0.27
PNPBAS-AMB-5	08/14/2018	FD	<0.13	<0.14	<0.14	0.17
PNPBAS-AMB-5	08/14/2018	REG	<0.13	<0.14	<0.14	0.16
PNPBAS-AMB-5	01/22/2019	REG	<0.13	<0.14	<0.14	2.1
PNPBAS-AMB-5	02/18/2019	REG	<0.13	<0.14	<0.14	0.15
PNPBAS-AMB-5	05/07/2019	REG	<0.13	<0.14	<0.14	0.19
PNPBAS-AMB-5	10/29/2019	REG	<0.13	<0.14	<0.14	0.21
PNPBAS-AMB-5	12/19/2019	REG	<0.13	<0.14	<0.14	1.2
PNPBAS-AMB-5	12/08/2020	FD	<0.13	<0.14	<0.14	0.47
PNPBAS-AMB-5	12/08/2020	REG	<0.13	<0.14	<0.14	0.46
PNPBAS-AMB-6	08/14/2018	REG	<0.13	<0.14	<0.14	0.27
PNPBAS-AMB-6	01/22/2019	REG	<0.13	0.14	<0.14	2.2
PNPBAS-AMB-6	02/18/2019	REG	<0.13	<0.14	<0.14	0.31
PNPBAS-AMB-6	05/07/2019	REG	<0.13	<0.14	<0.14	0.32
PNPBAS-AMB-6	10/29/2019	REG	<0.13	<0.14	<0.14	0.49

Notes:
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APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
PNPBAS-AMB-6	12/19/2019	FD	<0.13	<0.14	<0.14	1.3
PNPBAS-AMB-6	12/19/2019	REG	<0.13	<0.14	<0.14	1.4
PNPBAS-AMB-6	12/08/2020	REG	<0.13	<0.14	<0.14	0.8
PNPBAS-GAC-1	12/08/2020	REG	2.0 C	0.23	<0.15	6.2
PNPBAS-GAC-2	12/08/2020	REG	<0.14	<0.15	<0.15	<0.14
PNPBAS-OUT-1	12/08/2020	REG	<0.13	<0.14	<0.14	0.27
PNPBAS-PATH-1	12/08/2020	REG	0.36 C	0.16	<0.14	1.7
PNPBAS-PATH-2	12/08/2020	REG	0.23 C	<0.14	<0.14	0.91
PNPBAS-PATH-3	12/08/2020	REG	0.20 C	<0.14	<0.14	0.34
PNPBAS-PATH-4	12/08/2020	REG	2.2 C	0.24	<0.14	6.5
PNPBAS-PATH-5	12/08/2020	REG	1.8 C	0.21	<0.15	5.8
PNPOFF-AMB-1	08/14/2018	REG	<0.13	<0.14	<0.14	<0.13
PNPOFF-AMB-1	01/22/2019	REG	<0.13	<0.14	<0.14	1.4
PNPOFF-AMB-1	02/18/2019	REG	<0.13	<0.14	<0.14	0.18
PNPOFF-AMB-1	05/07/2019	FD	<0.13	<0.14	<0.14	0.23
PNPOFF-AMB-1	05/07/2019	REG	<0.13	<0.14	<0.14	0.23
PNPOFF-AMB-1	10/29/2019	REG	<0.13	<0.14	<0.14	<0.13
PNPOFF-AMB-1	12/19/2019	REG	<0.13	<0.14	<0.14	0.9
PNPOFF-AMB-1	12/08/2020	REG	<0.13	<0.14	<0.14	0.6
PNPOFF-AMB-2	12/08/2020	REG	<0.13	<0.14	<0.14	0.65
PNPOFF-AMB-3	12/08/2020	REG	<0.13	<0.14	<0.14	4
PNPOFF-AMB-4	12/08/2020	REG	<0.13	<0.14	<0.14	0.27
PNPOFF-AMB-5	12/08/2020	REG	<0.13	<0.14	<0.14	0.33
PNPOFF-AMB-6	12/08/2020	REG	<0.13	<0.14	<0.14	0.31
PNPOFF-AMB-7	12/08/2020	REG	<0.13	<0.14	<0.14	0.32
PNPOFF-OUT-1	08/14/2018	REG	<0.13	<0.14	<0.14	<0.13

Notes:
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APPENDIX A
HISTORICAL INDOOR AIR ANALYTICAL RESULTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

Parameter Name			cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
Report Units			ug/m^3	ug/m^3	ug/m^3	ug/m^3
Location ID	**Date Sampled**	**Sample Purpose**	Report Result	Report Result	Report Result	Report Result
PNPOFF-OUT-1	01/22/2019	REG	<0.14	<0.14	<0.14	1.4
PNPOFF-OUT-1	02/18/2019	REG	<0.14	<0.14	<0.14	0.18
PNPOFF-OUT-1	05/07/2019	REG	<0.13	<0.14	<0.14	<0.13
PNPOFF-OUT-1	10/29/2019	REG	<0.14	<0.14	<0.14	<0.13
PNPOFF-OUT-1	12/19/2019	REG	<0.13	<0.13	<0.13	0.71
PNPOFF-OUT-1	12/08/2020	REG	<0.13	<0.14	<0.14	<0.13
PNPOFF-PATH-1	12/08/2020	REG	<0.13	<0.14	<0.14	0.31

Notes:
ND - Denotes result was below the detection limit
NT - Sample not tested for the given parameter
C - Estimated concentration due to calculated uptake rate

Appendix B
Laboratory Reports

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2/23/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: PHILIPS-ARQUES
Project #:
Workorder #: 2012265R1

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 12/10/2020 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2012265R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	2700508-9016
FAX:	650-960-0739	**PROJECT #**	PHILIPS-ARQUES
DATE RECEIVED:	12/10/2020	**CONTACT:**	Jade White
DATE COMPLETED:	12/21/2020		
DATE REISSUED:	02/23/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-AMB-1-120820	Passive RAD 145 (TD)
02A	PNPBAS-PATH-5-120820	Passive RAD 145 (TD)
03A	PNPBAS-PATH-4-120820	Passive RAD 145 (TD)
04A	PNPBAS-GAC-1-120820	Passive RAD 145 (TD)
05A	PNPBAS-GAC-2-120820	Passive RAD 145 (TD)
06A	PNPBAS-PATH-1-120820	Passive RAD 145 (TD)
07A	PNPBAS-AMB-2-120820	Passive RAD 145 (TD)
08A	PNPBAS-AMB-3-120820	Passive RAD 145 (TD)
09A	PNPBAS-PATH-3-120820	Passive RAD 145 (TD)
10A	PNPBAS-AMB-4-120820	Passive RAD 145 (TD)
11A	PNPBAS-AMB-5-120820	Passive RAD 145 (TD)
12A	PNPBAS-AMB-5-D-120820	Passive RAD 145 (TD)
13A	PNPBAS-OUT-1-120820	Passive RAD 145 (TD)
14A	PNPBAS-PATH-2-120820	Passive RAD 145 (TD)
15A	PNPBAS-AMB-6-120820	Passive RAD 145 (TD)
16A	PNPOFF-AMB-1-120820	Passive RAD 145 (TD)
17A	PNPOFF-OUT-1-120820	Passive RAD 145 (TD)
18A	PNPOFF-AMB-2-120820	Passive RAD 145 (TD)
19A	PNPOFF-AMB-3-120820	Passive RAD 145 (TD)
20A	PNPOFF-AMB-4-120820	Passive RAD 145 (TD)
21A	PNPOFF-AMB-5-120820	Passive RAD 145 (TD)
22A	PNPOFF-PATH-1-120820	Passive RAD 145 (TD)
23A	PNPOFF-AMB-6-120820	Passive RAD 145 (TD)

Continued on next page

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WORK ORDER #: 2012265R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	2700508-9016
FAX:	650-960-0739	**PROJECT #**	PHILIPS-ARQUES
DATE RECEIVED:	12/10/2020	**CONTACT:**	Jade White
DATE COMPLETED:	12/21/2020		
DATE REISSUED:	02/23/2021		

FRACTION #	NAME	TEST
24A	PNPOFF-AMB-7-120820	Passive RAD 145 (TD)
25A	PNPOFF-999-120820	Passive RAD 145 (TD)
26A	Lab Blank	Passive RAD 145 (TD)
26B	Lab Blank	Passive RAD 145 (TD)
27A	CCV	Passive RAD 145 (TD)
27B	CCV	Passive RAD 145 (TD)
28A	LCS	Passive RAD 145 (TD)
28AA	LCSD	Passive RAD 145 (TD)
28B	LCS	Passive RAD 145 (TD)
28BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 02/23/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2012265R1

Twenty-five Radiello 145 (VOC TD) samples were received on December 10, 2020. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks and sample PNPOFF-999-120820, a sampling duration of 1434 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Due to laboratory error, the workorder was reissued on 2/23/2021 to report Chloroform.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-1-120820

Lab ID#: 2012265R1-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	220	6.1
Tetrachloroethene	5.0	0.15	7.0	0.21
cis-1,2-Dichloroethene	5.0	0.14	78 C	2.2 C
Freon 113	5.0	0.13	58 C	1.5 C
Chloroform	5.0	0.099	8.8 C	0.17 C

Client Sample ID: PNPBAS-PATH-5-120820

Lab ID#: 2012265R1-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	210	5.8
Tetrachloroethene	5.0	0.15	7.0	0.21
cis-1,2-Dichloroethene	5.0	0.14	63 C	1.8 C
Freon 113	5.0	0.13	53 C	1.4 C
Chloroform	5.0	0.10	8.2 C	0.16 C

Client Sample ID: PNPBAS-PATH-4-120820

Lab ID#: 2012265R1-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	230	6.5
Tetrachloroethene	5.0	0.15	8.0	0.24
cis-1,2-Dichloroethene	5.0	0.14	78 C	2.2 C
Freon 113	5.0	0.13	59 C	1.5 C
Chloroform	5.0	0.098	8.5 C	0.17 C

Client Sample ID: PNPBAS-GAC-1-120820

Lab ID#: 2012265R1-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	210	6.2
Tetrachloroethene	5.0	0.15	7.6	0.23

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-GAC-1-120820

Lab ID#: 2012265R1-04A

cis-1,2-Dichloroethene	5.0	0.14	70 C	2.0 C
Freon 113	5.0	0.14	57 C	1.6 C
Chloroform	5.0	0.10	9.5 C	0.20 C

Client Sample ID: PNPBAS-GAC-2-120820

Lab ID#: 2012265R1-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	14 C	0.37 C

Client Sample ID: PNPBAS-PATH-1-120820

Lab ID#: 2012265R1-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	64	1.7
Tetrachloroethene	5.0	0.14	5.4	0.16
cis-1,2-Dichloroethene	5.0	0.14	13 C	0.36 C
Freon 113	5.0	0.13	31 C	0.80 C
Chloroform	5.0	0.097	19 C	0.36 C

Client Sample ID: PNPBAS-AMB-2-120820

Lab ID#: 2012265R1-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	19	0.50
Freon 113	5.0	0.12	27 C	0.67 C
Chloroform	5.0	0.094	12 C	0.22 C

Client Sample ID: PNPBAS-AMB-3-120820

Lab ID#: 2012265R1-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	15	0.39
Freon 113	5.0	0.13	25 C	0.62 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-3-120820

Lab ID#: 2012265R1-08A

Chloroform	5.0	0.095	12 C	0.23 C

Client Sample ID: PNPBAS-PATH-3-120820

Lab ID#: 2012265R1-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	13	0.34
cis-1,2-Dichloroethene	5.0	0.14	7.5 C	0.20 C
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	14 C	0.26 C

Client Sample ID: PNPBAS-AMB-4-120820

Lab ID#: 2012265R1-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	10	0.27
Freon 113	5.0	0.13	23 C	0.59 C
Chloroform	5.0	0.095	14 C	0.27 C

Client Sample ID: PNPBAS-AMB-5-120820

Lab ID#: 2012265R1-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	18	0.46
Freon 113	5.0	0.12	24 C	0.58 C
Chloroform	5.0	0.093	12 C	0.23 C

Client Sample ID: PNPBAS-AMB-5-D-120820

Lab ID#: 2012265R1-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	18	0.47
Freon 113	5.0	0.12	21 C	0.52 C
Chloroform	5.0	0.093	11 C	0.20 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-OUT-1-120820

Lab ID#: 2012265R1-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	10	0.27
Freon 113	5.0	0.12	24 C	0.61 C
Chloroform	5.0	0.094	14 C	0.27 C

Client Sample ID: PNPBAS-PATH-2-120820

Lab ID#: 2012265R1-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	34	0.91
cis-1,2-Dichloroethene	5.0	0.13	8.7 C	0.23 C
Freon 113	5.0	0.13	28 C	0.72 C
Chloroform	5.0	0.095	12 C	0.23 C

Client Sample ID: PNPBAS-AMB-6-120820

Lab ID#: 2012265R1-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	30	0.80
Freon 113	5.0	0.12	27 C	0.68 C
Chloroform	5.0	0.094	10 C	0.19 C

Client Sample ID: PNPOFF-AMB-1-120820

Lab ID#: 2012265R1-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	23	0.60
Freon 113	5.0	0.12	20 C	0.51 C
Chloroform	5.0	0.094	10 C	0.19 C

Client Sample ID: PNPOFF-OUT-1-120820

Lab ID#: 2012265R1-17A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-OUT-1-120820

Lab ID#: 2012265R1-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	21 C	0.53 C
Chloroform	5.0	0.093	13 C	0.25 C

Client Sample ID: PNPOFF-AMB-2-120820

Lab ID#: 2012265R1-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	25	0.65
Freon 113	5.0	0.12	18 C	0.44 C
Chloroform	5.0	0.092	8.9 C	0.16 C

Client Sample ID: PNPOFF-AMB-3-120820

Lab ID#: 2012265R1-19A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	160	4.0
Freon 113	5.0	0.12	20 C	0.48 C
Chloroform	5.0	0.092	11 C	0.20 C

Client Sample ID: PNPOFF-AMB-4-120820

Lab ID#: 2012265R1-20A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	10	0.27
Freon 113	5.0	0.12	19 C	0.47 C
Chloroform	5.0	0.094	10 C	0.19 C

Client Sample ID: PNPOFF-AMB-5-120820

Lab ID#: 2012265R1-21A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	12	0.33

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-AMB-5-120820

Lab ID#: 2012265R1-21A

Freon 113	5.0	0.12	19 C	0.49 C
Chloroform	5.0	0.094	10 C	0.19 C

Client Sample ID: PNPOFF-PATH-1-120820

Lab ID#: 2012265R1-22A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	12	0.31
Freon 113	5.0	0.12	19 C	0.47 C
Chloroform	5.0	0.094	11 C	0.21 C

Client Sample ID: PNPOFF-AMB-6-120820

Lab ID#: 2012265R1-23A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	12	0.31
Freon 113	5.0	0.12	20 C	0.50 C
Chloroform	5.0	0.094	8.8 C	0.16 C

Client Sample ID: PNPOFF-AMB-7-120820

Lab ID#: 2012265R1-24A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	12	0.32
Freon 113	5.0	0.12	20 C	0.50 C
Chloroform	5.0	0.093	9.4 C	0.18 C

Client Sample ID: PNPOFF-999-120820

Lab ID#: 2012265R1-25A

No Detections Were Found.

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Client Sample ID: PNPBAS-AMB-1-120820

Lab ID#: 2012265R1-01A

PASSIVE RAD 145 (TD)

File Name:	**6121109R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:20:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 04:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	220	6.1
Tetrachloroethene	5.0	0.15	7.0	0.21
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	78 C	2.2 C
Freon 113	5.0	0.13	58 C	1.5 C
Chloroform	5.0	0.099	8.8 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 50.0F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-5-120820

Lab ID#: 2012265R1-02A

PASSIVE RAD 145 (TD)

File Name:	**6121110R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:26:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 05:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	210	5.8
Tetrachloroethene	5.0	0.15	7.0	0.21
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	63 C	1.8 C
Freon 113	5.0	0.13	53 C	1.4 C
Chloroform	5.0	0.10	8.2 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 48.2F , duration time = 1428 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-4-120820

Lab ID#: 2012265R1-03A

PASSIVE RAD 145 (TD)

File Name:	**6121111R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:29:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 05:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	230	6.5
Tetrachloroethene	5.0	0.15	8.0	0.24
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	78 C	2.2 C
Freon 113	5.0	0.13	59 C	1.5 C
Chloroform	5.0	0.098	8.5 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1427 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-1-120820

Lab ID#: 2012265R1-04A

PASSIVE RAD 145 (TD)

File Name:	**6121112R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:31:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 06:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.39	Not Detected	Not Detected
Trichloroethene	5.0	0.14	210	6.2
Tetrachloroethene	5.0	0.15	7.6	0.23
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	70 C	2.0 C
Freon 113	5.0	0.14	57 C	1.6 C
Chloroform	5.0	0.10	9.5 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 39.2F , duration time = 1428 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-120820

Lab ID#: 2012265R1-05A

PASSIVE RAD 145 (TD)

File Name:	**6121113R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:33:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 06:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	14 C	0.37 C
Chloroform	5.0	0.10	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 46.4F , duration time = 1425 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-1-120820

Lab ID#: 2012265R1-06A

PASSIVE RAD 145 (TD)

File Name:	**6121114R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:37:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 07:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	64	1.7
Tetrachloroethene	5.0	0.14	5.4	0.16
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	13 C	0.36 C
Freon 113	5.0	0.13	31 C	0.80 C
Chloroform	5.0	0.097	19 C	0.36 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1425 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-2-120820

Lab ID#: 2012265R1-07A

PASSIVE RAD 145 (TD)

File Name:	**6121115R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:41:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 08:12 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	19	0.50
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	27 C	0.67 C
Chloroform	5.0	0.094	12 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-3-120820

Lab ID#: 2012265R1-08A

PASSIVE RAD 145 (TD)

File Name:	**6121116R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:47:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 08:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	15	0.39
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.62 C
Chloroform	5.0	0.095	12 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 64.4F , duration time = 1431 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-3-120820

Lab ID#: 2012265R1-09A

PASSIVE RAD 145 (TD)

File Name:	**6121117R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:50:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 09:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	13	0.34
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	7.5 C	0.20 C
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	14 C	0.26 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-4-120820

Lab ID#: 2012265R1-10A

PASSIVE RAD 145 (TD)

File Name:	**6121118R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:52:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 10:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	10	0.27
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	23 C	0.59 C
Chloroform	5.0	0.095	14 C	0.27 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 64.4F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-5-120820

Lab ID#: 2012265R1-11A

PASSIVE RAD 145 (TD)

File Name:	**6121119R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:57:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 10:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	18	0.46
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	24 C	0.58 C
Chloroform	5.0	0.093	12 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-5-D-120820

Lab ID#: 2012265R1-12A

PASSIVE RAD 145 (TD)

File Name:	**6121120R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 10:57:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 11:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	18	0.47
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	21 C	0.52 C
Chloroform	5.0	0.093	11 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-120820

Lab ID#: 2012265R1-13A

PASSIVE RAD 145 (TD)

File Name:	**6121121R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:03:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 11:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	10	0.27
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	24 C	0.61 C
Chloroform	5.0	0.094	14 C	0.27 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1429 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-2-120820

Lab ID#: 2012265R1-14A

PASSIVE RAD 145 (TD)

File Name:	**6121412R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:11:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 05:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	34	0.91
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	8.7 C	0.23 C
Freon 113	5.0	0.13	28 C	0.72 C
Chloroform	5.0	0.095	12 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1426 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-6-120820

Lab ID#: 2012265R1-15A

PASSIVE RAD 145 (TD)

File Name:	**6121123R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:20:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/12/20 01:00 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	30	0.80
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	27 C	0.68 C
Chloroform	5.0	0.094	10 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1421 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-1-120820

Lab ID#: 2012265R1-16A

PASSIVE RAD 145 (TD)

File Name:	**6121124R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:39:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/12/20 01:37 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	23	0.60
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	20 C	0.51 C
Chloroform	5.0	0.094	10 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1420 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-1-120820

Lab ID#: 2012265R1-17A

PASSIVE RAD 145 (TD)

File Name:	**6121125R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:41:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/12/20 02:15 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	21 C	0.53 C
Chloroform	5.0	0.093	13 C	0.25 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 75.2F , duration time = 1420 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-2-120820

Lab ID#: 2012265R1-18A

PASSIVE RAD 145 (TD)

File Name:	**6121126R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:47:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/12/20 02:52 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	25	0.65
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	18 C	0.44 C
Chloroform	5.0	0.092	8.9 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 78.8F , duration time = 1426 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-3-120820

Lab ID#: 2012265R1-19A

PASSIVE RAD 145 (TD)

File Name:	**6121127R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 11:58:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/12/20 03:30 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	160	4.0
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	20 C	0.48 C
Chloroform	5.0	0.092	11 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 78.8F , duration time = 1420 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-4-120820

Lab ID#: 2012265R1-20A

PASSIVE RAD 145 (TD)

File Name:	**6121128R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 12:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/12/20 04:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	10	0.27
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	19 C	0.47 C
Chloroform	5.0	0.094	10 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1421 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-5-120820

Lab ID#: 2012265R1-21A

PASSIVE RAD 145 (TD)

File Name:	**6121408R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 12:10:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 02:34 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	12	0.33
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	19 C	0.49 C
Chloroform	5.0	0.094	10 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1421 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-PATH-1-120820

Lab ID#: 2012265R1-22A

PASSIVE RAD 145 (TD)

File Name:	**6121409R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 12:15:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 03:12 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	12	0.31
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	19 C	0.47 C
Chloroform	5.0	0.094	11 C	0.21 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1419 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-6-120820

Lab ID#: 2012265R1-23A

PASSIVE RAD 145 (TD)

File Name:	**6121410R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 12:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 03:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	12	0.31
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	20 C	0.50 C
Chloroform	5.0	0.094	8.8 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1421 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-7-120820

Lab ID#: 2012265R1-24A

PASSIVE RAD 145 (TD)

File Name:	**6121411R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20 12:36:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 04:26 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	12	0.32
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	20 C	0.50 C
Chloroform	5.0	0.093	9.4 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 75.2F , duration time = 1419 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-999-120820

Lab ID#: 2012265R1-25A

PASSIVE RAD 145 (TD)

File Name:	**6121407R1**	**Date of Extraction: NA**	**Date of Collection: 12/8/20**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 01:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.091	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 78.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2012265R1-26A

PASSIVE RAD 145 (TD)

File Name:	**6121108**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 01:58 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.091	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 78.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank
Lab ID#: 2012265R1-26B
PASSIVE RAD 145 (TD)

File Name:	**6121406**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 11:22 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.091	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 78.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2012265R1-27A
PASSIVE RAD 145 (TD)

File Name:	**6121107**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 01:26 PM**

Compound	%Recovery
1,1,1-Trichloroethane	113
Trichloroethene	87
Tetrachloroethene	97
1,1-Dichloroethane	108
1,1-Dichloroethene	94
cis-1,2-Dichloroethene	110
Freon 113	105
Chloroform	106
trans-1,2-Dichloroethene	105

Container Type: NA - Not Applicable

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Client Sample ID: CCV
Lab ID#: 2012265R1-27B
PASSIVE RAD 145 (TD)

File Name:	**6121403**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 09:40 AM**

Compound	%Recovery
1,1,1-Trichloroethane	92
Trichloroethene	126
Tetrachloroethene	87
1,1-Dichloroethane	97
1,1-Dichloroethene	109
cis-1,2-Dichloroethene	104
Freon 113	93
Chloroform	87
trans-1,2-Dichloroethene	100

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2012265R1-28A
PASSIVE RAD 145 (TD)

File Name:	**6121103**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 10:52 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	123	70-130
Trichloroethene	95	70-130
Tetrachloroethene	98	70-130
1,1-Dichloroethane	114	70-130
1,1-Dichloroethene	101	70-130
cis-1,2-Dichloroethene	121	70-130
Freon 113	108	70-130
Chloroform	111	70-130
trans-1,2-Dichloroethene	116	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2012265R1-28AA
PASSIVE RAD 145 (TD)

File Name:	**6121104**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/11/20 11:23 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	129	70-130
Trichloroethene	97	70-130
Tetrachloroethene	97	70-130
1,1-Dichloroethane	120	70-130
1,1-Dichloroethene	111	70-130
cis-1,2-Dichloroethene	129	70-130
Freon 113	119	70-130
Chloroform	112	70-130
trans-1,2-Dichloroethene	123	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2012265R1-28B
PASSIVE RAD 145 (TD)

File Name:	**6121404**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 10:17 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	121	70-130
Trichloroethene	120	70-130
Tetrachloroethene	106	70-130
1,1-Dichloroethane	110	70-130
1,1-Dichloroethene	101	70-130
cis-1,2-Dichloroethene	116	70-130
Freon 113	106	70-130
Chloroform	108	70-130
trans-1,2-Dichloroethene	110	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2012265R1-28BB
PASSIVE RAD 145 (TD)

File Name:	**6121405**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/14/20 10:48 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	118	70-130
Trichloroethene	120	70-130
Tetrachloroethene	105	70-130
1,1-Dichloroethane	110	70-130
1,1-Dichloroethene	104	70-130
cis-1,2-Dichloroethene	120	70-130
Freon 113	110	70-130
Chloroform	102	70-130
trans-1,2-Dichloroethene	116	70-130

Container Type: NA - Not Applicable

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2/5/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Philips-Arques
Project #: 2700508-9018
Workorder #: 2101170R1

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 1/12/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2101170R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Philips-Arques
DATE RECEIVED:	01/12/2021	**CONTACT:**	Jade White
DATE COMPLETED:	01/26/2021		
DATE REISSUED:	02/05/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-GAC-1-010721	Passive RAD 145 (TD)
02A	PNPBAS-GAC-2-010721	Passive RAD 145 (TD)
03A	PNPBAS-GAC-2-D-010721	Passive RAD 145 (TD)
04A	PNPBAS-OUT-1-010721	Passive RAD 145 (TD)
05A	PNPBAS-999-010721	Passive RAD 145 (TD)
06A	Lab Blank	Passive RAD 145 (TD)
07A	CCV	Passive RAD 145 (TD)
08A	LCS	Passive RAD 145 (TD)
08AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/05/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2101170R1

Five Radiello 145 (VOC TD) samples were received on January 12, 2021. Five Radiello 145 (VOC TD) samples were received on January 12, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

The work order was reissued on 02/05/2021 to correct identification of the following sample PNPBAS-OUT-1-010721 due to laboratory transcription error.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank and sample PNPBAS-999-010721, a sampling duration of 1434 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

The quantitation of Chloroform in sample PNPBAS-OUT-010721 is impacted by matrix interference. The results is qualified with an "M" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-GAC-1-010721

Lab ID#: 2101170R1-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	610	17
Tetrachloroethene	5.0	0.15	9.3	0.28
cis-1,2-Dichloroethene	5.0	0.14	98 C	2.8 C
Freon 113	5.0	0.13	150 C	4.1 C
Chloroform	5.0	0.10	6.0 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.15	5.7 C	0.17 C

Client Sample ID: PNPBAS-GAC-2-010721

Lab ID#: 2101170R1-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	160	4.5
Tetrachloroethene	5.0	0.15	5.6	0.17
cis-1,2-Dichloroethene	5.0	0.14	61 C	1.7 C
Freon 113	5.0	0.13	73 C	2.0 C
Chloroform	5.0	0.10	5.3 C	0.11 C

Client Sample ID: PNPBAS-GAC-2-D-010721

Lab ID#: 2101170R1-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	81	2.3
cis-1,2-Dichloroethene	5.0	0.14	40 C	1.1 C
Freon 113	5.0	0.13	67 C	1.8 C

Client Sample ID: PNPBAS-OUT-1-010721

Lab ID#: 2101170R1-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	27 C	0.71 C
Chloroform	5.0	0.099	10 CM	0.20 CM

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-999-010721

Lab ID#: 2101170R1-05A

No Detections Were Found.

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Client Sample ID: PNPBAS-GAC-1-010721

Lab ID#: 2101170R1-01A

PASSIVE RAD 145 (TD)

File Name:	**6012535**	**Date of Extraction: NA**	**Date of Collection: 1/7/21 10:11:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 10:08 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	610	17
Tetrachloroethene	5.0	0.15	9.3	0.28
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	98 C	2.8 C
Freon 113	5.0	0.13	150 C	4.1 C
Chloroform	5.0	0.10	6.0 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.15	5.7 C	0.17 C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 44.6F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-010721

Lab ID#: 2101170R1-02A

PASSIVE RAD 145 (TD)

File Name:	**6012536**	**Date of Extraction: NA**	**Date of Collection: 1/7/21 10:14:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 10:45 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	160	4.5
Tetrachloroethene	5.0	0.15	5.6	0.17
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	61 C	1.7 C
Freon 113	5.0	0.13	73 C	2.0 C
Chloroform	5.0	0.10	5.3 C	0.11 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 44.6F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-D-010721

Lab ID#: 2101170R1-03A

PASSIVE RAD 145 (TD)

File Name:	**6012537**	**Date of Extraction: NA**	**Date of Collection: 1/7/21 10:14:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 11:29 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	81	2.3
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	40 C	1.1 C
Freon 113	5.0	0.13	67 C	1.8 C
Chloroform	5.0	0.10	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 44.6F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-010721

Lab ID#: 2101170R1-04A

PASSIVE RAD 145 (TD)

File Name:	**6012538**	**Date of Extraction: NA**	**Date of Collection: 1/7/21 10:21:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 12:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	27 C	0.71 C
Chloroform	5.0	0.099	10 CM	0.20 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.
M = Reported value may be biased due to apparent ma trix interferences.

Temperature = 51.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-999-010721

Lab ID#: 2101170R1-05A

PASSIVE RAD 145 (TD)

File Name:	**6012539**	**Date of Extraction: NA**	**Date of Collection: 1/7/21**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 12:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.099	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank
Lab ID#: 2101170R1-06A
PASSIVE RAD 145 (TD)

File Name:	**6012533**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 08:25 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.099	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2101170R1-07A
PASSIVE RAD 145 (TD)

File Name:	**6012521a**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 01:12 AM**

Compound	%Recovery
1,1,1-Trichloroethane	115
Trichloroethene	106
Tetrachloroethene	118
1,1-Dichloroethane	114
1,1-Dichloroethene	104
cis-1,2-Dichloroethene	120
Freon 113	109
Chloroform	112
trans-1,2-Dichloroethene	120

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2101170R1-08A
PASSIVE RAD 145 (TD)

File Name:	**6012531**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 07:20 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	117	70-130
Trichloroethene	97	70-130
Tetrachloroethene	116	70-130
1,1-Dichloroethane	118	70-130
1,1-Dichloroethene	110	70-130
cis-1,2-Dichloroethene	126	70-130
Freon 113	116	70-130
Chloroform	113	70-130
trans-1,2-Dichloroethene	123	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2101170R1-08AA
PASSIVE RAD 145 (TD)

File Name:	**6012532**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/26/21 07:52 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	126	70-130
Trichloroethene	96	70-130
Tetrachloroethene	115	70-130
1,1-Dichloroethane	123	70-130
1,1-Dichloroethene	119	70-130
cis-1,2-Dichloroethene	137 Q	70-130
Freon 113	125	70-130
Chloroform	117	70-130
trans-1,2-Dichloroethene	133 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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2/4/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Philips-Arques
Project #: 2700508-9018 Arques
Workorder #: 2101371

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 1/20/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2101371

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13007
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Arques Philips-Arques
DATE RECEIVED:	01/20/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/04/2021		

FRACTION #	NAME	TEST
01A	PG-AMB-1-011421	Passive RAD 145 (TD)
02A	PG-AMB-1-D-011421	Passive RAD 145 (TD)
03A	PG-AMB-2-011421	Passive RAD 145 (TD)
04A	PG-AMB-3-011421	Passive RAD 145 (TD)
05A	PG-AMB-4-011421	Passive RAD 145 (TD)
06A	PG-AMB-5-011421	Passive RAD 145 (TD)
07A	PG-AMB-10-011421	Passive RAD 145 (TD)
08A	PG-AMB-6-011421	Passive RAD 145 (TD)
09A	PG-AMB-8-011421	Passive RAD 145 (TD)
10A	PG-AMB-9-011421	Passive RAD 145 (TD)
11A	PG-AMB-7-011421	Passive RAD 145 (TD)
12A	PG-OUT-1-011421	Passive RAD 145 (TD)
13A	PG-OUT-2-011421	Passive RAD 145 (TD)
14A	PG-999-011421	Passive RAD 145 (TD)
15A	Lab Blank	Passive RAD 145 (TD)
15B	Lab Blank	Passive RAD 145 (TD)
16A	CCV	Passive RAD 145 (TD)
16B	CCV	Passive RAD 145 (TD)
17A	LCS	Passive RAD 145 (TD)
17AA	LCSD	Passive RAD 145 (TD)
17B	LCS	Passive RAD 145 (TD)
17BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 02/04/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2101371

Fourteen Radiello 145 (VOC TD) samples were received on January 20, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks, a sampling duration of 1444 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-1-011421

Lab ID#: 2101371-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	14	0.36
Freon 113	5.0	0.13	24 C	0.63 C

Client Sample ID: PG-AMB-1-D-011421

Lab ID#: 2101371-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	15	0.40
Tetrachloroethene	5.0	0.14	6.0	0.17
Freon 113	5.0	0.13	36 C	0.92 C
Chloroform	5.0	0.097	14 C	0.28 C

Client Sample ID: PG-AMB-2-011421

Lab ID#: 2101371-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	13	0.36
Tetrachloroethene	5.0	0.14	7.1	0.20
Freon 113	5.0	0.13	30 C	0.76 C
Chloroform	5.0	0.096	11 C	0.21 C

Client Sample ID: PG-AMB-3-011421

Lab ID#: 2101371-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	13	0.36
Tetrachloroethene	5.0	0.14	7.0	0.20
Freon 113	5.0	0.13	32 C	0.82 C
Chloroform	5.0	0.096	12 C	0.24 C

Client Sample ID: PG-AMB-4-011421

Lab ID#: 2101371-05A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-4-011421

Lab ID#: 2101371-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	14	0.38
Tetrachloroethene	5.0	0.14	6.1	0.18
Freon 113	5.0	0.13	33 C	0.83 C
Chloroform	5.0	0.096	12 C	0.22 C

Client Sample ID: PG-AMB-5-011421

Lab ID#: 2101371-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	15	0.41
Tetrachloroethene	5.0	0.14	7.2	0.21
Freon 113	5.0	0.13	30 C	0.77 C
Chloroform	5.0	0.096	14 C	0.27 C

Client Sample ID: PG-AMB-10-011421

Lab ID#: 2101371-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	14	0.36
Tetrachloroethene	5.0	0.14	6.8	0.19
Freon 113	5.0	0.13	32 C	0.82 C
Chloroform	5.0	0.095	9.1 C	0.17 C

Client Sample ID: PG-AMB-6-011421

Lab ID#: 2101371-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	15	0.40
Tetrachloroethene	5.0	0.14	5.8	0.17
Freon 113	5.0	0.13	32 C	0.82 C
Chloroform	5.0	0.096	8.2 C	0.16 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-8-011421

Lab ID#: 2101371-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	16	0.44
Tetrachloroethene	5.0	0.14	5.6	0.16
Freon 113	5.0	0.13	33 C	0.85 C
Chloroform	5.0	0.096	11 C	0.20 C

Client Sample ID: PG-AMB-9-011421

Lab ID#: 2101371-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	20	0.52
Freon 113	5.0	0.13	30 C	0.78 C
Chloroform	5.0	0.096	11 C	0.20 C

Client Sample ID: PG-AMB-7-011421

Lab ID#: 2101371-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	13	0.36
Tetrachloroethene	5.0	0.14	5.7	0.16
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	5.0	0.097	9.9 C	0.19 C

Client Sample ID: PG-OUT-1-011421

Lab ID#: 2101371-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	15	0.40
Freon 113	5.0	0.13	30 C	0.78 C
Chloroform	5.0	0.097	11 C	0.21 C

Client Sample ID: PG-OUT-2-011421

Lab ID#: 2101371-13A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-OUT-2-011421

Lab ID#: 2101371-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.12	15	0.38
Freon 113	5.0	0.12	40 C	0.96 C
Chloroform	5.0	0.088	13 C	0.23 C

Client Sample ID: PG-999-011421

Lab ID#: 2101371-14A

No Detections Were Found.

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Client Sample ID: PG-AMB-1-011421

Lab ID#: 2101371-01A

PASSIVE RAD 145 (TD)

File Name:	**6020216**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 07:51 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	14	0.36
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.63 C
Chloroform	5.0	0.097	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-1-D-011421

Lab ID#: 2101371-02A

PASSIVE RAD 145 (TD)

File Name:	**6020409**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/4/21 12:53 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	15	0.40
Tetrachloroethene	5.0	0.14	6.0	0.17
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	36 C	0.92 C
Chloroform	5.0	0.097	14 C	0.28 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-2-011421

Lab ID#: 2101371-03A

PASSIVE RAD 145 (TD)

File Name:	**6020218**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:42:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 09:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	13	0.36
Tetrachloroethene	5.0	0.14	7.1	0.20
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	30 C	0.76 C
Chloroform	5.0	0.096	11 C	0.21 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1443 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-3-011421

Lab ID#: 2101371-04A

PASSIVE RAD 145 (TD)

File Name:	**6020219**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:44:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 09:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	13	0.36
Tetrachloroethene	5.0	0.14	7.0	0.20
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	32 C	0.82 C
Chloroform	5.0	0.096	12 C	0.24 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-4-011421

Lab ID#: 2101371-05A

PASSIVE RAD 145 (TD)

File Name:	**6020220**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:48:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 10:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	14	0.38
Tetrachloroethene	5.0	0.14	6.1	0.18
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	33 C	0.83 C
Chloroform	5.0	0.096	12 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1442 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-5-011421

Lab ID#: 2101371-06A

PASSIVE RAD 145 (TD)

File Name:	**6020221**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:50:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 10:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	15	0.41
Tetrachloroethene	5.0	0.14	7.2	0.21
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	30 C	0.77 C
Chloroform	5.0	0.096	14 C	0.27 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1442 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-10-011421

Lab ID#: 2101371-07A

PASSIVE RAD 145 (TD)

File Name:	**6020222**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:54:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 11:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	14	0.36
Tetrachloroethene	5.0	0.14	6.8	0.19
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	32 C	0.82 C
Chloroform	5.0	0.095	9.1 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 62.6F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-6-011421

Lab ID#: 2101371-08A

PASSIVE RAD 145 (TD)

File Name:	**6020223**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:56:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/21 12:12 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	15	0.40
Tetrachloroethene	5.0	0.14	5.8	0.17
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	32 C	0.82 C
Chloroform	5.0	0.096	8.2 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-8-011421

Lab ID#: 2101371-09A

PASSIVE RAD 145 (TD)

File Name:	**6020224**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 11:58:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/21 12:49 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	16	0.44
Tetrachloroethene	5.0	0.14	5.6	0.16
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	33 C	0.85 C
Chloroform	5.0	0.096	11 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1442 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-9-011421

Lab ID#: 2101371-10A

PASSIVE RAD 145 (TD)

File Name:	**6020225**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 12:01:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/21 01:27 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	20	0.52
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	30 C	0.78 C
Chloroform	5.0	0.096	11 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-7-011421

Lab ID#: 2101371-11A

PASSIVE RAD 145 (TD)

File Name:	**6020226**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 12:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/21 02:05 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	13	0.36
Tetrachloroethene	5.0	0.14	5.7	0.16
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	5.0	0.097	9.9 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1439 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-1-011421

Lab ID#: 2101371-12A

PASSIVE RAD 145 (TD)

File Name:	**6020227**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 12:10:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/21 02:42 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	15	0.40
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	30 C	0.78 C
Chloroform	5.0	0.097	11 C	0.21 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1438 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-2-011421

Lab ID#: 2101371-13A

PASSIVE RAD 145 (TD)

File Name:	**6020228**	**Date of Extraction: NA**	**Date of Collection: 1/14/21 12:14:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/3/21 03:19 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.12	15	0.38
Tetrachloroethene	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.12	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
Freon 113	5.0	0.12	40 C	0.96 C
Chloroform	5.0	0.088	13 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 89.6F , duration time = 1437 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-999-011421

Lab ID#: 2101371-14A

PASSIVE RAD 145 (TD)

File Name:	**6020209**	**Date of Extraction: NA**	**Date of Collection: 1/14/21**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 03:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.12	Not Detected	Not Detected
Tetrachloroethene	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.12	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.088	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 89.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2101371-15A

PASSIVE RAD 145 (TD)

File Name:	**6020208**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 02:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.33	Not Detected	Not Detected
Trichloroethene	5.0	0.12	Not Detected	Not Detected
Tetrachloroethene	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.12	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.088	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 89.6F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2101371-15B

PASSIVE RAD 145 (TD)

File Name:	**6020407**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/4/21 11:22 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.33	Not Detected	Not Detected
Trichloroethene	5.0	0.12	Not Detected	Not Detected
Tetrachloroethene	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.12	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.088	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 89.6F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2101371-16A

PASSIVE RAD 145 (TD)

File Name:	**6020205**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 01:05 PM**

Compound	%Recovery
1,1,1-Trichloroethane	80
Trichloroethene	74
Tetrachloroethene	77
1,1-Dichloroethane	93
1,1-Dichloroethene	90
cis-1,2-Dichloroethene	94
Freon 113	83
Chloroform	87
trans-1,2-Dichloroethene	91

Container Type: NA - Not Applicable

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Client Sample ID: CCV
Lab ID#: 2101371-16B
PASSIVE RAD 145 (TD)

File Name:	**6020406**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/4/21 10:48 AM**

Compound	%Recovery
1,1,1-Trichloroethane	98
Trichloroethene	71
Tetrachloroethene	82
1,1-Dichloroethane	109
1,1-Dichloroethene	99
cis-1,2-Dichloroethene	103
Freon 113	97
Chloroform	98
trans-1,2-Dichloroethene	103

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2101371-17A
PASSIVE RAD 145 (TD)

File Name:	**6020206**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 01:42 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	106	70-130
Trichloroethene	93	70-130
Tetrachloroethene	98	70-130
1,1-Dichloroethane	118	70-130
1,1-Dichloroethene	115	70-130
cis-1,2-Dichloroethene	120	70-130
Freon 113	107	70-130
Chloroform	108	70-130
trans-1,2-Dichloroethene	119	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2101371-17AA
PASSIVE RAD 145 (TD)

File Name:	**6020207**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/2/21 02:13 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	111	70-130
Trichloroethene	91	70-130
Tetrachloroethene	101	70-130
1,1-Dichloroethane	121	70-130
1,1-Dichloroethene	120	70-130
cis-1,2-Dichloroethene	125	70-130
Freon 113	112	70-130
Chloroform	109	70-130
trans-1,2-Dichloroethene	124	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2101371-17B
PASSIVE RAD 145 (TD)

File Name:	**6020404**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/4/21 09:10 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	97	70-130
Trichloroethene	86	70-130
Tetrachloroethene	91	70-130
1,1-Dichloroethane	106	70-130
1,1-Dichloroethene	104	70-130
cis-1,2-Dichloroethene	108	70-130
Freon 113	99	70-130
Chloroform	99	70-130
trans-1,2-Dichloroethene	108	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2101371-17BB
PASSIVE RAD 145 (TD)

File Name:	**6020405**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/4/21 09:42 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	99	70-130
Trichloroethene	82	70-130
Tetrachloroethene	91	70-130
1,1-Dichloroethane	109	70-130
1,1-Dichloroethene	109	70-130
cis-1,2-Dichloroethene	112	70-130
Freon 113	104	70-130
Chloroform	98	70-130
trans-1,2-Dichloroethene	113	70-130

Container Type: NA - Not Applicable

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3/2/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Philip - Arques
Project #: 2700508-9018
Workorder #: 2102391

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 2/17/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102391

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-12998
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Philip - Arques
DATE RECEIVED:	02/17/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/02/2021		

FRACTION #	NAME	TEST
01A	PG-AMB-1-020921	Passive RAD 145 (TD)
02A	PG-AMB-2-020921	Passive RAD 145 (TD)
03A	PG-AMB-3-020921	Passive RAD 145 (TD)
04A	PG-AMB-4-020921	Passive RAD 145 (TD)
05A	PG-AMB-4-D-020921	Passive RAD 145 (TD)
06A	PG-AMB-5-020921	Passive RAD 145 (TD)
07A	PG-AMB-6-020921	Passive RAD 145 (TD)
08A	PG-AMB-8-020921	Passive RAD 145 (TD)
09A	PG-AMB-9-020921	Passive RAD 145 (TD)
10A	PG-AMB-7-020921	Passive RAD 145 (TD)
11A	PG-AMB-10-020921	Passive RAD 145 (TD)
12A	PG-OUT-1-020921	Passive RAD 145 (TD)
13A	PG-OUT-2-020921	Passive RAD 145 (TD)
14A	PG-999-020921	Passive RAD 145 (TD)
15A	Lab Blank	Passive RAD 145 (TD)
16A	CCV	Passive RAD 145 (TD)
17A	LCS	Passive RAD 145 (TD)
17AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 03/02/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2102391

Fourteen Radiello 145 (VOC TD) samples were received on February 17, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1445 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-1-020921

Lab ID#: 2102391-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	13	0.34
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	11 C	0.22 C

Client Sample ID: PG-AMB-2-020921

Lab ID#: 2102391-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	14	0.38
Freon 113	5.0	0.13	24 C	0.61 C
Chloroform	5.0	0.095	9.3 C	0.18 C

Client Sample ID: PG-AMB-3-020921

Lab ID#: 2102391-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	14	0.38
Freon 113	5.0	0.13	24 C	0.61 C
Chloroform	5.0	0.096	8.4 C	0.16 C

Client Sample ID: PG-AMB-4-020921

Lab ID#: 2102391-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	15	0.40
Freon 113	5.0	0.13	25 C	0.63 C
Chloroform	5.0	0.096	9.1 C	0.17 C

Client Sample ID: PG-AMB-4-D-020921

Lab ID#: 2102391-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-4-D-020921

Lab ID#: 2102391-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	15	0.39
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	13 C	0.24 C

Client Sample ID: PG-AMB-5-020921

Lab ID#: 2102391-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	12	0.31
Freon 113	5.0	0.13	16 C	0.42 C
Chloroform	5.0	0.096	7.2 C	0.14 C

Client Sample ID: PG-AMB-6-020921

Lab ID#: 2102391-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	14	0.36
Freon 113	5.0	0.13	23 C	0.59 C
Chloroform	5.0	0.096	8.3 C	0.16 C

Client Sample ID: PG-AMB-8-020921

Lab ID#: 2102391-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	15	0.41
Freon 113	5.0	0.13	24 C	0.62 C
Chloroform	5.0	0.096	10 C	0.19 C

Client Sample ID: PG-AMB-9-020921

Lab ID#: 2102391-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-9-020921

Lab ID#: 2102391-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	17	0.45
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	9.0 C	0.17 C

Client Sample ID: PG-AMB-7-020921

Lab ID#: 2102391-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	15	0.41
Freon 113	5.0	0.13	23 C	0.60 C
Chloroform	5.0	0.097	8.6 C	0.17 C

Client Sample ID: PG-AMB-10-020921

Lab ID#: 2102391-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	14	0.37
Freon 113	5.0	0.13	22 C	0.57 C
Chloroform	5.0	0.095	9.5 C	0.18 C

Client Sample ID: PG-OUT-1-020921

Lab ID#: 2102391-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	8.6	0.23
Freon 113	5.0	0.12	12 C	0.31 C

Client Sample ID: PG-OUT-2-020921

Lab ID#: 2102391-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	15	0.40

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-OUT-2-020921

Lab ID#: 2102391-13A

Freon 113	5.0	0.12	30 C	0.76 C
Chloroform	5.0	0.094	13 C	0.25 C

Client Sample ID: PG-999-020921

Lab ID#: 2102391-14A

No Detections Were Found.

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Client Sample ID: PG-AMB-1-020921

Lab ID#: 2102391-01A

PASSIVE RAD 145 (TD)

File Name:	**70022311**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:15:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 04:22 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	13	0.34
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	11 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-2-020921

Lab ID#: 2102391-02A

PASSIVE RAD 145 (TD)

File Name:	**70022312**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 05:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	14	0.38
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.61 C
Chloroform	5.0	0.095	9.3 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-3-020921

Lab ID#: 2102391-03A

PASSIVE RAD 145 (TD)

File Name:	**70022313**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:22:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 05:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	14	0.38
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.61 C
Chloroform	5.0	0.096	8.4 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1442 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-4-020921

Lab ID#: 2102391-04A

PASSIVE RAD 145 (TD)

File Name:	**70022314**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:26:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 06:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	15	0.40
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.63 C
Chloroform	5.0	0.096	9.1 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-4-D-020921

Lab ID#: 2102391-05A

PASSIVE RAD 145 (TD)

File Name:	**70022315**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:26:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 07:03 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	15	0.39
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	13 C	0.24 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-5-020921

Lab ID#: 2102391-06A

PASSIVE RAD 145 (TD)

File Name:	**70022316**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:28:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 07:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	12	0.31
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	16 C	0.42 C
Chloroform	5.0	0.096	7.2 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-6-020921

Lab ID#: 2102391-07A

PASSIVE RAD 145 (TD)

File Name:	**70022317**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 08:24 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	14	0.36
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	23 C	0.59 C
Chloroform	5.0	0.096	8.3 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-8-020921

Lab ID#: 2102391-08A

PASSIVE RAD 145 (TD)

File Name:	**70022318**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:32:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 09:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	15	0.41
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.62 C
Chloroform	5.0	0.096	10 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1442 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-9-020921

Lab ID#: 2102391-09A

PASSIVE RAD 145 (TD)

File Name:	**70022319**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:34:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 09:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	17	0.45
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.64 C
Chloroform	5.0	0.096	9.0 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-7-020921

Lab ID#: 2102391-10A

PASSIVE RAD 145 (TD)

File Name:	**70022320**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:38:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 10:26 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	15	0.41
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	23 C	0.60 C
Chloroform	5.0	0.097	8.6 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-10-020921

Lab ID#: 2102391-11A

PASSIVE RAD 145 (TD)

File Name:	**70022321**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:45:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 11:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	14	0.37
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.57 C
Chloroform	5.0	0.095	9.5 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 62.6F , duration time = 1438 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-1-020921

Lab ID#: 2102391-12A

PASSIVE RAD 145 (TD)

File Name:	**70022322**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:48:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 11:46 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	8.6	0.23
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	12 C	0.31 C
Chloroform	5.0	0.094	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 66.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-2-020921

Lab ID#: 2102391-13A

PASSIVE RAD 145 (TD)

File Name:	**70022323**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 12:54:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/24/21 12:27 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	15	0.40
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	30 C	0.76 C
Chloroform	5.0	0.094	13 C	0.25 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 66.2F , duration time = 1437 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-999-020921

Lab ID#: 2102391-14A

PASSIVE RAD 145 (TD)

File Name:	**70022310**	**Date of Extraction: NA**	**Date of Collection: 2/9/21**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 03:41 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.094	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 66.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102391-15A

PASSIVE RAD 145 (TD)

File Name:	**70022305**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 11:48 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.094	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 66.2F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2102391-16A

PASSIVE RAD 145 (TD)

File Name:	**70022304**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 11:14 AM**

Compound	%Recovery
1,1,1-Trichloroethane	92
Trichloroethene	77
Tetrachloroethene	82
1,1-Dichloroethane	89
1,1-Dichloroethene	87
cis-1,2-Dichloroethene	90
Freon 113	85
Chloroform	86
trans-1,2-Dichloroethene	87

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102391-17A
PASSIVE RAD 145 (TD)

File Name:	**70022302**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 10:06 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	80	70-130
Trichloroethene	119	70-130
Tetrachloroethene	96	70-130
1,1-Dichloroethane	86	70-130
1,1-Dichloroethene	111	70-130
cis-1,2-Dichloroethene	92	70-130
Freon 113	90	70-130
Chloroform	87	70-130
trans-1,2-Dichloroethene	91	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102391-17AA
PASSIVE RAD 145 (TD)

File Name:	**70022303**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/23/21 10:39 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	84	70-130
Trichloroethene	121	70-130
Tetrachloroethene	95	70-130
1,1-Dichloroethane	92	70-130
1,1-Dichloroethene	119	70-130
cis-1,2-Dichloroethene	100	70-130
Freon 113	97	70-130
Chloroform	93	70-130
trans-1,2-Dichloroethene	98	70-130

Container Type: NA - Not Applicable

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3/2/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Philips - Arques
Project #: 2700508-9018
Workorder #: 2102394

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 2/17/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102394

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-12998
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Philips - Arques
DATE RECEIVED:	02/17/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/02/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-AMB-1-021021	Passive RAD 145 (TD)
02A	PNPBAS-PATH-4-021021	Passive RAD 145 (TD)
03A	PNPBAS-PATH-5-021021	Passive RAD 145 (TD)
04A	PNPBAS-GAC-1-021021	Passive RAD 145 (TD)
05A	PNPBAS-GAC-2-021021	Passive RAD 145 (TD)
06A	PNPBAS-PATH-1-021021	Passive RAD 145 (TD)
07A	PNPBAS-PATH-2-021021	Passive RAD 145 (TD)
08A	PNPBAS-AMB-2-021021	Passive RAD 145 (TD)
09A	PNPBAS-AMB-3-021021	Passive RAD 145 (TD)
10A	PNPBAS-AMB-3-D-021021	Passive RAD 145 (TD)
11A	PNPBAS-PATH-3-021021	Passive RAD 145 (TD)
12A	PNPBAS-AMB-4-021021	Passive RAD 145 (TD)
13A(cancelled)	PNPBAS-AMB-5-021021	Passive RAD 145 (TD)
14A	PNPBAS-OUT-1-021021	Passive RAD 145 (TD)
15A	PNPBAS-AMB-6-021021	Passive RAD 145 (TD)
16A	PNPOFF-AMB-6-021021	Passive RAD 145 (TD)
17A	PNPOFF-PATH-1-021021	Passive RAD 145 (TD)
18A	PNPOFF-AMB-5-021021	Passive RAD 145 (TD)
19A	PNPOFF-AMB-7-021021	Passive RAD 145 (TD)
20A	PNPOFF-AMB-4-021021	Passive RAD 145 (TD)
21A	PNPOFF-AMB-2-021021	Passive RAD 145 (TD)
22A	PNPOFF-AMB-3-021021	Passive RAD 145 (TD)
23A	PNPOFF-AMB-1-021021	Passive RAD 145 (TD)

Continued on next page

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WORK ORDER #: 2102394

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-12998
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Philips - Arques
DATE RECEIVED:	02/17/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/02/2021		

FRACTION #	NAME	TEST
24A	PNPOFF-AMB-1-D-021021	Passive RAD 145 (TD)
25A	PNPOFF-OUT-1-021021	Passive RAD 145 (TD)
26A	PNPBAS-999-021021	Passive RAD 145 (TD)
27A	Lab Blank	Passive RAD 145 (TD)
27B	Lab Blank	Passive RAD 145 (TD)
28A	CCV	Passive RAD 145 (TD)
28B	CCV	Passive RAD 145 (TD)
29A	LCS	Passive RAD 145 (TD)
29AA	LCSD	Passive RAD 145 (TD)
29B	LCS	Passive RAD 145 (TD)
29BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/02/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2102394

Twenty-six Radiello 145 (VOC TD) samples were received on February 17, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks, a sampling duration of 1450 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Sample PNPBAS-AMB-5-021021 was received missing the retaining screen on the end of the sorbent cartridge. As a result, the cartridge contained no sorbent for sample analysis, and the sample was cancelled on 3/2/2021.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-1-021021

Lab ID#: 2102394-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	210	5.6
cis-1,2-Dichloroethene	5.0	0.14	64	1.7
Freon 113	5.0	0.13	64	1.6
Chloroform	5.0	0.096	7.8	0.15

Client Sample ID: PNPBAS-PATH-4-021021

Lab ID#: 2102394-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	230	6.2
Tetrachloroethene	5.0	0.14	5.5	0.16
cis-1,2-Dichloroethene	5.0	0.14	45	1.2
Freon 113	5.0	0.13	67	1.7
Chloroform	5.0	0.096	8.6	0.16

Client Sample ID: PNPBAS-PATH-5-021021

Lab ID#: 2102394-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	220	6.1
cis-1,2-Dichloroethene	5.0	0.14	49	1.4
Freon 113	5.0	0.13	67	1.8
Chloroform	5.0	0.098	8.7	0.17

Client Sample ID: PNPBAS-GAC-1-021021

Lab ID#: 2102394-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	530	15
Tetrachloroethene	5.0	0.15	18	0.53
cis-1,2-Dichloroethene	5.0	0.14	60	1.7
Freon 113	5.0	0.13	170	4.5

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-GAC-1-021021

Lab ID#: 2102394-04A

Chloroform	5.0	0.099	13	0.25

Client Sample ID: PNPBAS-GAC-2-021021

Lab ID#: 2102394-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	97	2.7
cis-1,2-Dichloroethene	5.0	0.14	32	0.89
Freon 113	5.0	0.13	68	1.8
Chloroform	5.0	0.099	5.8	0.11

Client Sample ID: PNPBAS-PATH-1-021021

Lab ID#: 2102394-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	39	1.0
cis-1,2-Dichloroethene	5.0	0.13	7.6	0.20
Freon 113	5.0	0.12	28	0.70
Chloroform	5.0	0.094	14	0.26

Client Sample ID: PNPBAS-PATH-2-021021

Lab ID#: 2102394-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	26	0.70
Freon 113	5.0	0.13	25	0.64
Chloroform	5.0	0.095	8.9	0.17

Client Sample ID: PNPBAS-AMB-2-021021

Lab ID#: 2102394-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	19	0.48
Freon 113	5.0	0.12	21	0.51

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-2-021021

Lab ID#: 2102394-08A

Chloroform	5.0	0.091	9.0	0.16

Client Sample ID: PNPBAS-AMB-3-021021

Lab ID#: 2102394-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	12	0.34
Freon 113	5.0	0.13	20	0.52
Chloroform	5.0	0.096	7.8	0.15

Client Sample ID: PNPBAS-AMB-3-D-021021

Lab ID#: 2102394-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	13	0.36
Freon 113	5.0	0.13	24	0.61
Chloroform	5.0	0.096	9.5	0.18

Client Sample ID: PNPBAS-PATH-3-021021

Lab ID#: 2102394-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	11	0.30
Freon 113	5.0	0.13	24	0.62
Chloroform	5.0	0.097	8.5	0.16

Client Sample ID: PNPBAS-AMB-4-021021

Lab ID#: 2102394-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	10	0.28
Freon 113	5.0	0.13	22	0.57
Chloroform	5.0	0.095	9.4	0.18

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-OUT-1-021021

Lab ID#: 2102394-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	8.9	0.24
Freon 113	5.0	0.13	23	0.59
Chloroform	5.0	0.095	10	0.19

Client Sample ID: PNPBAS-AMB-6-021021

Lab ID#: 2102394-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	65	1.7
Freon 113	5.0	0.12	28	0.69
Chloroform	5.0	0.094	7.9	0.15

Client Sample ID: PNPOFF-AMB-6-021021

Lab ID#: 2102394-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	7.0	0.18
Freon 113	5.0	0.12	26	0.64
Chloroform	5.0	0.091	13	0.24

Client Sample ID: PNPOFF-PATH-1-021021

Lab ID#: 2102394-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	6.5	0.17
Freon 113	5.0	0.12	19	0.46
Chloroform	5.0	0.092	11	0.20

Client Sample ID: PNPOFF-AMB-5-021021

Lab ID#: 2102394-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-AMB-5-021021

Lab ID#: 2102394-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	6.0	0.15
Freon 113	5.0	0.12	19	0.47
Chloroform	5.0	0.092	7.4	0.14

Client Sample ID: PNPOFF-AMB-7-021021

Lab ID#: 2102394-19A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	6.1	0.16
Freon 113	5.0	0.12	21	0.52
Chloroform	5.0	0.091	10	0.19

Client Sample ID: PNPOFF-AMB-4-021021

Lab ID#: 2102394-20A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	5.6	0.14
Freon 113	5.0	0.12	20	0.50
Chloroform	5.0	0.091	7.4	0.14

Client Sample ID: PNPOFF-AMB-2-021021

Lab ID#: 2102394-21A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	8.5	0.22
Freon 113	5.0	0.12	19	0.47
Chloroform	5.0	0.092	7.3	0.13

Client Sample ID: PNPOFF-AMB-3-021021

Lab ID#: 2102394-22A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-AMB-3-021021

Lab ID#: 2102394-22A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	8.8	0.23
Freon 113	5.0	0.12	20	0.50
Chloroform	5.0	0.092	8.2	0.15

Client Sample ID: PNPOFF-AMB-1-021021

Lab ID#: 2102394-23A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	7.3	0.19
Freon 113	5.0	0.12	19	0.47
Chloroform	5.0	0.092	6.8	0.12

Client Sample ID: PNPOFF-AMB-1-D-021021

Lab ID#: 2102394-24A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	7.2	0.18
Freon 113	5.0	0.12	17	0.41
Chloroform	5.0	0.092	6.4	0.12

Client Sample ID: PNPOFF-OUT-1-021021

Lab ID#: 2102394-25A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	5.0	0.13
Freon 113	5.0	0.12	22	0.54
Chloroform	5.0	0.091	9.0	0.16

Client Sample ID: PNPBAS-999-021021

Lab ID#: 2102394-26A

No Detections Were Found.

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Client Sample ID: PNPBAS-AMB-1-021021

Lab ID#: 2102394-01A

PASSIVE RAD 145 (TD)

File Name:	**70022607**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:12:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 01:41 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	210	5.6
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	64	1.7
Freon 113	5.0	0.13	64	1.6
Chloroform	5.0	0.096	7.8	0.15
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 59.0F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-4-021021

Lab ID#: 2102394-02A

PASSIVE RAD 145 (TD)

File Name:	**70022608**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:15:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 02:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	230	6.2
Tetrachloroethene	5.0	0.14	5.5	0.16
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	45	1.2
Freon 113	5.0	0.13	67	1.7
Chloroform	5.0	0.096	8.6	0.16
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 59.0F , duration time = 1439 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-5-021021

Lab ID#: 2102394-03A

PASSIVE RAD 145 (TD)

File Name:	**70022609**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:17:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 03:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	220	6.1
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	49	1.4
Freon 113	5.0	0.13	67	1.8
Chloroform	5.0	0.098	8.7	0.17
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 51.8F , duration time = 1438 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-1-021021

Lab ID#: 2102394-04A

PASSIVE RAD 145 (TD)

File Name:	**70022610**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 03:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	530	15
Tetrachloroethene	5.0	0.15	18	0.53
1,1-Dichloroethane	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	60	1.7
Freon 113	5.0	0.13	170	4.5
Chloroform	5.0	0.099	13	0.25
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 50.0F , duration time = 1437 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-021021

Lab ID#: 2102394-05A

PASSIVE RAD 145 (TD)

File Name:	**70022611**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:21:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 04:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	97	2.7
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	32	0.89
Freon 113	5.0	0.13	68	1.8
Chloroform	5.0	0.099	5.8	0.11
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 50.0F , duration time = 1437 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-1-021021

Lab ID#: 2102394-06A

PASSIVE RAD 145 (TD)

File Name:	**70022612**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:25:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 05:03 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	39	1.0
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	7.6	0.20
Freon 113	5.0	0.12	28	0.70
Chloroform	5.0	0.094	14	0.26
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 68.0F , duration time = 1434 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-2-021021

Lab ID#: 2102394-07A

PASSIVE RAD 145 (TD)

File Name:	**70022613**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:28:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 05:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	26	0.70
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.13	25	0.64
Chloroform	5.0	0.095	8.9	0.17
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 66.2F , duration time = 1433 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-2-021021

Lab ID#: 2102394-08A

PASSIVE RAD 145 (TD)

File Name:	**70022614**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 06:24 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	19	0.48
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	21	0.51
Chloroform	5.0	0.091	9.0	0.16
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 78.8F , duration time = 1431 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-3-021021

Lab ID#: 2102394-09A

PASSIVE RAD 145 (TD)

File Name:	**70022615**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:36:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 07:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	12	0.34
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected
Freon 113	5.0	0.13	20	0.52
Chloroform	5.0	0.096	7.8	0.15
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 60.8F , duration time = 1429 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-3-D-021021

Lab ID#: 2102394-10A

PASSIVE RAD 145 (TD)

File Name:	**70022616**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:36:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 07:46 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	13	0.36
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected
Freon 113	5.0	0.13	24	0.61
Chloroform	5.0	0.096	9.5	0.18
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 60.8F , duration time = 1429 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-3-021021

Lab ID#: 2102394-11A

PASSIVE RAD 145 (TD)

File Name:	**70022617**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 08:26 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	11	0.30
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected
Freon 113	5.0	0.13	24	0.62
Chloroform	5.0	0.097	8.5	0.16
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 59.0F , duration time = 1427 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-4-021021

Lab ID#: 2102394-12A

PASSIVE RAD 145 (TD)

File Name:	**70022706**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 09:23 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	10	0.28
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.13	22	0.57
Chloroform	5.0	0.095	9.4	0.18
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 66.2F , duration time = 1427 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-021021

Lab ID#: 2102394-14A

PASSIVE RAD 145 (TD)

File Name:	**70022708**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:50:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 10:44 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	8.9	0.24
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.13	23	0.59
Chloroform	5.0	0.095	10	0.19
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 68.0F , duration time = 1425 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-6-021021

Lab ID#: 2102394-15A

PASSIVE RAD 145 (TD)

File Name:	**70022709**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 1:57:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 11:24 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	65	1.7
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	28	0.69
Chloroform	5.0	0.094	7.9	0.15
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 69.8F , duration time = 1423 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-6-021021

Lab ID#: 2102394-16A

PASSIVE RAD 145 (TD)

File Name:	**70022710**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:04:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 12:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	7.0	0.18
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	26	0.64
Chloroform	5.0	0.091	13	0.24
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 75.2F , duration time = 1448 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-PATH-1-021021

Lab ID#: 2102394-17A

PASSIVE RAD 145 (TD)

File Name:	**70022711**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:08:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 12:45 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	6.5	0.17
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	19	0.46
Chloroform	5.0	0.092	11	0.20
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 71.6F , duration time = 1449 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-5-021021

Lab ID#: 2102394-18A

PASSIVE RAD 145 (TD)

File Name:	**70022712**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:13:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 01:25 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	6.0	0.15
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	19	0.47
Chloroform	5.0	0.092	7.4	0.14
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 73.4F , duration time = 1449 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-7-021021

Lab ID#: 2102394-19A

PASSIVE RAD 145 (TD)

File Name:	**70022713**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 02:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	6.1	0.16
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	21	0.52
Chloroform	5.0	0.091	10	0.19
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 75.2F , duration time = 1450 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-4-021021

Lab ID#: 2102394-20A

PASSIVE RAD 145 (TD)

File Name:	**70022714**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:26:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 02:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	5.6	0.14
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	20	0.50
Chloroform	5.0	0.091	7.4	0.14
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 75.2F , duration time = 1448 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-2-021021

Lab ID#: 2102394-21A

PASSIVE RAD 145 (TD)

File Name:	**70022715**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 03:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	8.5	0.22
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	19	0.47
Chloroform	5.0	0.092	7.3	0.13
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 75.2F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-3-021021

Lab ID#: 2102394-22A

PASSIVE RAD 145 (TD)

File Name:	**70022716**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:37:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 04:08 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	8.8	0.23
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	20	0.50
Chloroform	5.0	0.092	8.2	0.15
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 75.2F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-1-021021

Lab ID#: 2102394-23A

PASSIVE RAD 145 (TD)

File Name:	**70022717**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 04:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	7.3	0.19
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	19	0.47
Chloroform	5.0	0.092	6.8	0.12
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 73.4F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-1-D-021021

Lab ID#: 2102394-24A

PASSIVE RAD 145 (TD)

File Name:	**70022718**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 05:29 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	7.2	0.18
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	17	0.41
Chloroform	5.0	0.092	6.4	0.12
trans-1,2-Dichloroethene	5.0	0.14	Not Detected	Not Detected

Temperature = 73.4F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-1-021021

Lab ID#: 2102394-25A

PASSIVE RAD 145 (TD)

File Name:	**70022719**	**Date of Extraction: NA**	**Date of Collection: 2/10/21 2:45:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 06:09 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	5.0	0.13
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	22	0.54
Chloroform	5.0	0.091	9.0	0.16
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 78.8F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-999-021021

Lab ID#: 2102394-26A

PASSIVE RAD 145 (TD)

File Name:	**70022606**	**Date of Extraction: NA**	**Date of Collection: 2/10/21**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 01:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	Not Detected	Not Detected
Chloroform	5.0	0.091	Not Detected	Not Detected
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 78.8F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102394-27A

PASSIVE RAD 145 (TD)

File Name:	**70022605**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 11:22 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	Not Detected	Not Detected
Chloroform	5.0	0.090	Not Detected	Not Detected
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 78.8F , duration time = 1450 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102394-27B

PASSIVE RAD 145 (TD)

File Name:	**70022705**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 08:11 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected	Not Detected
1,1-Dichloroethene	5.0	0.10	Not Detected	Not Detected
cis-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected
Freon 113	5.0	0.12	Not Detected	Not Detected
Chloroform	5.0	0.090	Not Detected	Not Detected
trans-1,2-Dichloroethene	5.0	0.13	Not Detected	Not Detected

Temperature = 78.8F , duration time = 1450 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2102394-28A
PASSIVE RAD 145 (TD)

File Name:	**70022602**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 09:34 AM**

Compound	%Recovery
1,1,1-Trichloroethane	99
Trichloroethene	106
Tetrachloroethene	92
1,1-Dichloroethane	91
1,1-Dichloroethene	87
cis-1,2-Dichloroethene	91
Freon 113	89
Chloroform	77
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

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Client Sample ID: CCV
Lab ID#: 2102394-28B
PASSIVE RAD 145 (TD)

File Name:	**70022702**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 06:23 AM**

Compound	%Recovery
1,1,1-Trichloroethane	96
Trichloroethene	107
Tetrachloroethene	90
1,1-Dichloroethane	91
1,1-Dichloroethene	91
cis-1,2-Dichloroethene	91
Freon 113	91
Chloroform	80
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102394-29A
PASSIVE RAD 145 (TD)

File Name:	**70022603**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 10:14 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	82	70-130
Trichloroethene	75	70-130
Tetrachloroethene	73	70-130
1,1-Dichloroethane	81	70-130
1,1-Dichloroethene	79	70-130
cis-1,2-Dichloroethene	86	70-130
Freon 113	80	70-130
Chloroform	78	70-130
trans-1,2-Dichloroethene	83	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102394-29AA
PASSIVE RAD 145 (TD)

File Name:	**70022604**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 10:47 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	86	70-130
Trichloroethene	75	70-130
Tetrachloroethene	73	70-130
1,1-Dichloroethane	86	70-130
1,1-Dichloroethene	84	70-130
cis-1,2-Dichloroethene	92	70-130
Freon 113	86	70-130
Chloroform	81	70-130
trans-1,2-Dichloroethene	87	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102394-29B
PASSIVE RAD 145 (TD)

File Name:	**70022703**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 07:03 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	88	70-130
Trichloroethene	77	70-130
Tetrachloroethene	78	70-130
1,1-Dichloroethane	89	70-130
1,1-Dichloroethene	87	70-130
cis-1,2-Dichloroethene	96	70-130
Freon 113	89	70-130
Chloroform	85	70-130
trans-1,2-Dichloroethene	91	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102394-29BB
PASSIVE RAD 145 (TD)

File Name:	**70022704**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/27/21 07:36 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	93	70-130
Trichloroethene	77	70-130
Tetrachloroethene	79	70-130
1,1-Dichloroethane	93	70-130
1,1-Dichloroethene	91	70-130
cis-1,2-Dichloroethene	100	70-130
Freon 113	93	70-130
Chloroform	88	70-130
trans-1,2-Dichloroethene	95	70-130

Container Type: NA - Not Applicable

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3/23/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: PHILIPS-ARQUES
Project #: 2700508-9018
Workorder #: 2103357

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 3/12/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2103357

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508-9018 PHILIPS-ARQUES
DATE RECEIVED:	03/12/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/23/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-GAC-1-031021	Passive RAD 145 (TD)
02A	PNPBAS-GAC-2-031021	Passive RAD 145 (TD)
03A	PNPBAS-PATH-4-031021	Passive RAD 145 (TD)
04A	PNPBAS-PATH-4-D-031021	Passive RAD 145 (TD)
05A	PNPBAS-OUT-1-031021	Passive RAD 145 (TD)
06A	PNPBAS-999-031021	Passive RAD 145 (TD)
07A	Lab Blank	Passive RAD 145 (TD)
08A	CCV	Passive RAD 145 (TD)
09A	LCS	Passive RAD 145 (TD)
09AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 03/23/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2103357

Six Radiello 145 (VOC TD) samples were received on March 12, 2021. The laboratory perfomed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1440 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-GAC-1-031021

Lab ID#: 2103357-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	150	4.4
cis-1,2-Dichloroethene	5.0	0.14	55 C	1.6 C
Freon 113	5.0	0.14	46 C	1.3 C
Chloroform	5.0	0.10	9.3 C	0.19 C

Client Sample ID: PNPBAS-GAC-2-031021

Lab ID#: 2103357-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
cis-1,2-Dichloroethene	5.0	0.14	20 C	0.58 C
Freon 113	5.0	0.13	47 C	1.3 C
Chloroform	5.0	0.10	7.0 C	0.14 C

Client Sample ID: PNPBAS-PATH-4-031021

Lab ID#: 2103357-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	200	5.6
cis-1,2-Dichloroethene	5.0	0.14	38 C	1.0 C
Freon 113	5.0	0.13	39 C	1.0 C
Chloroform	5.0	0.099	8.6 C	0.17 C

Client Sample ID: PNPBAS-PATH-4-D-031021

Lab ID#: 2103357-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	210	5.7
cis-1,2-Dichloroethene	5.0	0.14	25 C	0.70 C
Freon 113	5.0	0.13	31 C	0.83 C
Chloroform	5.0	0.099	5.3 C	0.10 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-OUT-1-031021

Lab ID#: 2103357-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	8.5	0.24
Freon 113	5.0	0.13	18 C	0.48 C
Chloroform	5.0	0.10	6.0 C	0.12 C

Client Sample ID: PNPBAS-999-031021

Lab ID#: 2103357-06A

No Detections Were Found.

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Client Sample ID: PNPBAS-GAC-1-031021

Lab ID#: 2103357-01A

PASSIVE RAD 145 (TD)

File Name:	**70031510**	**Date of Extraction: NA**	**Date of Collection: 3/10/21 1:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 03:29 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.39	Not Detected	Not Detected
Trichloroethene	5.0	0.14	150	4.4
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	55 C	1.6 C
Freon 113	5.0	0.14	46 C	1.3 C
Chloroform	5.0	0.10	9.3 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 39.2F , duration time = 1430 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-031021

Lab ID#: 2103357-02A

PASSIVE RAD 145 (TD)

File Name:	**70031511**	**Date of Extraction: NA**	**Date of Collection: 3/10/21 1:24:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 04:10 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	20 C	0.58 C
Freon 113	5.0	0.13	47 C	1.3 C
Chloroform	5.0	0.10	7.0 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 44.6F , duration time = 1429 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-4-031021

Lab ID#: 2103357-03A

PASSIVE RAD 145 (TD)

File Name:	**70031512**	**Date of Extraction: NA**	**Date of Collection: 3/10/21 1:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 04:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	200	5.6
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	38 C	1.0 C
Freon 113	5.0	0.13	39 C	1.0 C
Chloroform	5.0	0.099	8.6 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1425 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-4-D-031021

Lab ID#: 2103357-04A

PASSIVE RAD 145 (TD)

File Name:	**70031513**	**Date of Extraction: NA**	**Date of Collection: 3/10/21 1:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 05:31 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	210	5.7
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	25 C	0.70 C
Freon 113	5.0	0.13	31 C	0.83 C
Chloroform	5.0	0.099	5.3 C	0.10 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1425 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-031021

Lab ID#: 2103357-05A

PASSIVE RAD 145 (TD)

File Name:	**70031514**	**Date of Extraction: NA**	**Date of Collection: 3/10/21 1:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 06:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	8.5	0.24
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.12	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	18 C	0.48 C
Chloroform	5.0	0.10	6.0 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 48.2F , duration time = 1433 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-999-031021

Lab ID#: 2103357-06A

PASSIVE RAD 145 (TD)

File Name:	**70031509**	**Date of Extraction: NA**	**Date of Collection: 3/10/21**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 02:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.098	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2103357-07A

PASSIVE RAD 145 (TD)

File Name:	**70031508**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 01:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.098	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2103357-08A

PASSIVE RAD 145 (TD)

File Name:	**70031502**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 09:31 AM**

Compound	%Recovery
1,1,1-Trichloroethane	102
Trichloroethene	85
Tetrachloroethene	76
1,1-Dichloroethane	95
1,1-Dichloroethene	87
cis-1,2-Dichloroethene	93
Freon 113	92
Chloroform	91
trans-1,2-Dichloroethene	92

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2103357-09A
PASSIVE RAD 145 (TD)

File Name:	**70031506**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 12:36 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	100	70-130
Trichloroethene	81	70-130
Tetrachloroethene	72	70-130
1,1-Dichloroethane	91	70-130
1,1-Dichloroethene	82	70-130
cis-1,2-Dichloroethene	90	70-130
Freon 113	87	70-130
Chloroform	86	70-130
trans-1,2-Dichloroethene	89	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2103357-09AA
PASSIVE RAD 145 (TD)

File Name:	**70031507**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/15/21 01:09 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	104	70-130
Trichloroethene	80	70-130
Tetrachloroethene	63 Q	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	86	70-130
cis-1,2-Dichloroethene	94	70-130
Freon 113	92	70-130
Chloroform	90	70-130
trans-1,2-Dichloroethene	93	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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4/9/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: PHILIPS ARQUES
Project #: 2700508-9018
Workorder #: 2103821

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 3/31/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2103821

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13004
FAX:	650-960-0739	**PROJECT #**	2700508-9018 PHILIPS ARQUES
DATE RECEIVED:	03/31/2021	**CONTACT:**	Jade White
DATE COMPLETED:	04/09/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-AMB-5-032421	Passive RAD 145 (TD)
02A	PNPBAS-AMB-5-D-032421	Passive RAD 145 (TD)
03A	PNPBAS-OUT-1-032421	Passive RAD 145 (TD)
04A	PNPBAS-999-032421	Passive RAD 145 (TD)
05A	Lab Blank	Passive RAD 145 (TD)
06A	CCV	Passive RAD 145 (TD)
07A	LCS	Passive RAD 145 (TD)
07AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 04/09/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2103821

Four Radiello 145 (VOC TD) samples were received on March 31, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1444 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-5-032421

Lab ID#: 2103821-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	21	0.54
Freon 113	5.0	0.12	19 C	0.46 C
Chloroform	5.0	0.092	9.0 C	0.17 C

Client Sample ID: PNPBAS-AMB-5-D-032421

Lab ID#: 2103821-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	21	0.54
Freon 113	5.0	0.12	22 C	0.53 C
Chloroform	5.0	0.092	7.3 C	0.13 C

Client Sample ID: PNPBAS-OUT-1-032421

Lab ID#: 2103821-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	5.4	0.14
Freon 113	5.0	0.12	19 C	0.46 C

Client Sample ID: PNPBAS-999-032421

Lab ID#: 2103821-04A

No Detections Were Found.

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Client Sample ID: PNPBAS-AMB-5-032421

Lab ID#: 2103821-01A

PASSIVE RAD 145 (TD)

File Name:	**70040208**	**Date of Extraction: NA**	**Date of Collection: 3/24/21 1:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 11:09 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	21	0.54
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	19 C	0.46 C
Chloroform	5.0	0.092	9.0 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-5-D-032421

Lab ID#: 2103821-02A

PASSIVE RAD 145 (TD)

File Name:	**70040209**	**Date of Extraction: NA**	**Date of Collection: 3/24/21 1:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 11:49 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	21	0.54
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	22 C	0.53 C
Chloroform	5.0	0.092	7.3 C	0.13 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-032421

Lab ID#: 2103821-03A

PASSIVE RAD 145 (TD)

File Name:	**70040210**	**Date of Extraction: NA**	**Date of Collection: 3/24/21 1:09:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 12:30 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	5.4	0.14
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	19 C	0.46 C
Chloroform	5.0	0.092	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-999-032421

Lab ID#: 2103821-04A

PASSIVE RAD 145 (TD)

File Name:	**70040207**	**Date of Extraction: NA**	**Date of Collection: 3/24/21**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 10:28 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.092	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2103821-05A

PASSIVE RAD 145 (TD)

File Name:	**70040206**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 08:24 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.092	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 73.4F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2103821-06A

PASSIVE RAD 145 (TD)

File Name:	**70040205**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 07:49 AM**

Compound	%Recovery
1,1,1-Trichloroethane	89
Trichloroethene	84
Tetrachloroethene	82
1,1-Dichloroethane	95
1,1-Dichloroethene	93
cis-1,2-Dichloroethene	95
Freon 113	89
Chloroform	90
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2103821-07A
PASSIVE RAD 145 (TD)

File Name:	**70040203**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 06:11 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	98	70-130
Trichloroethene	92	70-130
Tetrachloroethene	93	70-130
1,1-Dichloroethane	101	70-130
1,1-Dichloroethene	99	70-130
cis-1,2-Dichloroethene	99	70-130
Freon 113	90	70-130
Chloroform	97	70-130
trans-1,2-Dichloroethene	96	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2103821-07AA
PASSIVE RAD 145 (TD)

File Name:	**70040204**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/2/21 06:44 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	96	70-130
Trichloroethene	93	70-130
Tetrachloroethene	91	70-130
1,1-Dichloroethane	101	70-130
1,1-Dichloroethene	101	70-130
cis-1,2-Dichloroethene	101	70-130
Freon 113	94	70-130
Chloroform	96	70-130
trans-1,2-Dichloroethene	98	70-130

Container Type: NA - Not Applicable

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4/23/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: 440 Wolfe Monthly Sampling
Project #: 2700508
Workorder #: 2104245R1

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 4/13/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2104245R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13022
FAX:	650-960-0739	**PROJECT #**	2700508 440 Wolfe Monthly Sampling
DATE RECEIVED:	04/13/2021	**CONTACT:**	Jade White
DATE COMPLETED:	04/20/2021		
DATE REISSUED:	04/23/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-GAC-1-040721	Passive RAD 145 (TD)
02A	PNPBAS-GAC-2-040721	Passive RAD 145 (TD)
03A	PNPBAS-PATH-4-040721	Passive RAD 145 (TD)
04A	PNPBAS-AMB-1-040721	Passive RAD 145 (TD)
05A	PNPBAS-AMB-1D-040721	Passive RAD 145 (TD)
06A	PNPOFF-OUT-1-040721	Passive RAD 145 (TD)
07A	PNPBAS-999-040721	Passive RAD 145 (TD)
08A	Lab Blank	Passive RAD 145 (TD)
08B	Lab Blank	Passive RAD 145 (TD)
09A	CCV	Passive RAD 145 (TD)
09B	CCV	Passive RAD 145 (TD)
10A	LCS	Passive RAD 145 (TD)
10AA	LCSD	Passive RAD 145 (TD)
10B	LCS	Passive RAD 145 (TD)
10BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 04/23/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2104245R1

Seven Radiello 145 (VOC TD) samples were received on April 13, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

The work order was reissued on 04/23/2021 to change identification of sample PNPOFF-OUT-1-040721 per the email provided by the client.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks, a sampling duration of 1470 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-GAC-1-040721

Lab ID#: 2104245R1-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.15	300	9.3
Tetrachloroethene	5.0	0.16	8.2	0.27
cis-1,2-Dichloroethene	5.0	0.16	47 C	1.5 C
Freon 113	5.0	0.15	76 C	2.2 C
Chloroform	5.0	0.11	8.3 C	0.18 C

Client Sample ID: PNPBAS-GAC-2-040721

Lab ID#: 2104245R1-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	34	0.96
cis-1,2-Dichloroethene	5.0	0.14	37 C	1.0 C
Freon 113	5.0	0.13	69 C	1.8 C
Chloroform	5.0	0.10	7.7 C	0.15 C

Client Sample ID: PNPBAS-PATH-4-040721

Lab ID#: 2104245R1-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	170	4.5
Tetrachloroethene	5.0	0.14	5.5	0.16
cis-1,2-Dichloroethene	5.0	0.14	19 C	0.52 C
Freon 113	5.0	0.13	34 C	0.86 C
Chloroform	5.0	0.096	6.5 C	0.12 C

Client Sample ID: PNPBAS-AMB-1-040721

Lab ID#: 2104245R1-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	230	6.3
cis-1,2-Dichloroethene	5.0	0.14	57 C	1.6 C
Freon 113	5.0	0.13	54 C	1.4 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-1-040721

Lab ID#: 2104245R1-04A

Chloroform	5.0	0.098	10 C	0.20 C

Client Sample ID: PNPBAS-AMB-1D-040721

Lab ID#: 2104245R1-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	230	6.4
Tetrachloroethene	5.0	0.15	5.0	0.15
cis-1,2-Dichloroethene	5.0	0.14	53 C	1.5 C
Freon 113	5.0	0.13	53 C	1.4 C
Chloroform	5.0	0.098	7.9 C	0.16 C

Client Sample ID: PNPOFF-OUT-1-040721

Lab ID#: 2104245R1-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	24 C	0.57 C
Chloroform	5.0	0.091	10 C	0.18 C

Client Sample ID: PNPBAS-999-040721

Lab ID#: 2104245R1-07A

No Detections Were Found.

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Client Sample ID: PNPBAS-GAC-1-040721

Lab ID#: 2104245R1-01A

PASSIVE RAD 145 (TD)

File Name:	**70041511**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 12:57:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 06:19 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.42	Not Detected	Not Detected
Trichloroethene	5.0	0.15	300	9.3
Tetrachloroethene	5.0	0.16	8.2	0.27
1,1-Dichloroethane	5.0	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.16	47 C	1.5 C
Freon 113	5.0	0.15	76 C	2.2 C
Chloroform	5.0	0.11	8.3 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.16	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 46.4F , duration time = 1300 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-040721

Lab ID#: 2104245R1-02A

PASSIVE RAD 145 (TD)

File Name:	**70041512**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 1:00:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 06:59 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	34	0.96
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	37 C	1.0 C
Freon 113	5.0	0.13	69 C	1.8 C
Chloroform	5.0	0.10	7.7 C	0.15 C
trans-1,2-Dichloroethene	5.0	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 48.2F , duration time = 1436 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-4-040721

Lab ID#: 2104245R1-03A

PASSIVE RAD 145 (TD)

File Name:	**70041513**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 1:03:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 07:40 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	170	4.5
Tetrachloroethene	5.0	0.14	5.5	0.16
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	19 C	0.52 C
Freon 113	5.0	0.13	34 C	0.86 C
Chloroform	5.0	0.096	6.5 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1439 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-1-040721

Lab ID#: 2104245R1-04A

PASSIVE RAD 145 (TD)

File Name:	**70041514**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 1:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 08:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	230	6.3
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	57 C	1.6 C
Freon 113	5.0	0.13	54 C	1.4 C
Chloroform	5.0	0.098	10 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 50.0F , duration time = 1443 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-1D-040721

Lab ID#: 2104245R1-05A

PASSIVE RAD 145 (TD)

File Name:	**70041515**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 1:06:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 09:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	230	6.4
Tetrachloroethene	5.0	0.15	5.0	0.15
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	53 C	1.5 C
Freon 113	5.0	0.13	53 C	1.4 C
Chloroform	5.0	0.098	7.9 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 50.0F , duration time = 1443 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-1-040721

Lab ID#: 2104245R1-06A

PASSIVE RAD 145 (TD)

File Name:	**70041606**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 1:12:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/16/21 12:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	24 C	0.57 C
Chloroform	5.0	0.091	10 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1470 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-999-040721

Lab ID#: 2104245R1-07A

PASSIVE RAD 145 (TD)

File Name:	**70041510**	**Date of Extraction: NA**	**Date of Collection: 4/7/21 1:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 05:38 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.093	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2104245R1-08A

PASSIVE RAD 145 (TD)

File Name:	**70041509**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 04:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.091	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1470 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2104245R1-08B

PASSIVE RAD 145 (TD)

File Name:	**70041605**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/16/21 11:31 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.091	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1470 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2104245R1-09A
PASSIVE RAD 145 (TD)

File Name:	**70041508**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 03:29 PM**

Compound	%Recovery
1,1,1-Trichloroethane	107
Trichloroethene	92
Tetrachloroethene	92
1,1-Dichloroethane	97
1,1-Dichloroethene	97
cis-1,2-Dichloroethene	93
Freon 113	86
Chloroform	101
trans-1,2-Dichloroethene	88

Container Type: NA - Not Applicable

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Client Sample ID: CCV
Lab ID#: 2104245R1-09B
PASSIVE RAD 145 (TD)

File Name:	**70041602**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/16/21 09:05 AM**

Compound	%Recovery
1,1,1-Trichloroethane	95
Trichloroethene	95
Tetrachloroethene	88
1,1-Dichloroethane	99
1,1-Dichloroethene	96
cis-1,2-Dichloroethene	100
Freon 113	93
Chloroform	94
trans-1,2-Dichloroethene	97

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2104245R1-10A
PASSIVE RAD 145 (TD)

File Name:	**70041503**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 10:57 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	116	70-130
Trichloroethene	112	70-130
Tetrachloroethene	105	70-130
1,1-Dichloroethane	112	70-130
1,1-Dichloroethene	120	70-130
cis-1,2-Dichloroethene	109	70-130
Freon 113	104	70-130
Chloroform	112	70-130
trans-1,2-Dichloroethene	107	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2104245R1-10AA
PASSIVE RAD 145 (TD)

File Name:	**70041504**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/15/21 11:30 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	116	70-130
Trichloroethene	125	70-130
Tetrachloroethene	108	70-130
1,1-Dichloroethane	118	70-130
1,1-Dichloroethene	128	70-130
cis-1,2-Dichloroethene	115	70-130
Freon 113	110	70-130
Chloroform	115	70-130
trans-1,2-Dichloroethene	113	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2104245R1-10B
PASSIVE RAD 145 (TD)

File Name:	**70041603**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/16/21 10:23 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	101	70-130
Trichloroethene	90	70-130
Tetrachloroethene	86	70-130
1,1-Dichloroethane	100	70-130
1,1-Dichloroethene	95	70-130
cis-1,2-Dichloroethene	101	70-130
Freon 113	95	70-130
Chloroform	93	70-130
trans-1,2-Dichloroethene	98	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2104245R1-10BB
PASSIVE RAD 145 (TD)

File Name:	**70041604**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 4/16/21 10:56 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	102	70-130
Trichloroethene	93	70-130
Tetrachloroethene	87	70-130
1,1-Dichloroethane	103	70-130
1,1-Dichloroethene	99	70-130
cis-1,2-Dichloroethene	104	70-130
Freon 113	98	70-130
Chloroform	96	70-130
trans-1,2-Dichloroethene	101	70-130

Container Type: NA - Not Applicable

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4/26/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Signetics Monthly Sampling - 440 Woll
Project #: 2700508
Workorder #: 2104261

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 4/13/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2104261

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13022
FAX:	650-960-0739	**PROJECT #**	2700508 Signetics Monthly Sampling - 440 Wolle
DATE RECEIVED:	04/13/2021	**CONTACT:**	Jade White
DATE COMPLETED:	04/26/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PNPBAS-PATH-4-040721	Modified TO-15	4.7 "Hg	1.9 ps
01B	PNPBAS-PATH-4-040721	Modified TO-15	4.7 "Hg	1.9 ps
02A	PNPBAS-GAC-1-040721	Modified TO-15	4.9 "Hg	1.8 psi
02B	PNPBAS-GAC-1-040721	Modified TO-15	4.9 "Hg	1.8 psi
03A	PNPBAS-GAC-2-040721	Modified TO-15	3.7 "Hg	1.9 psi
03B	PNPBAS-GAC-2-040721	Modified TO-15	3.7 "Hg	1.9 psi
04A	PNPBAS-PATH-11-040821	Modified TO-15	2.8 "Hg	1.9 psi
04B	PNPBAS-PATH-11-040821	Modified TO-15	2.8 "Hg	1.9 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 04/26/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Locus Technologies
Workorder# 2104261

Four 6 Liter Summa Canister (SIM Certified) samples were received on April 13, 2021. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Due to laboratory error, the recovery of internal standards Bromochloromethane, 1,4-Difluorobenzene and Chlorobenzene-d5 in the Laboratory Control Spike (LCS) was above the method acceptanc limits of 60-140%. As a result the Laboratory Control Spike Duplicate (LCSD) requirement for TO15 was not reported. A corrective action report #38 was initiated.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PNPBAS-PATH-4-040721

Lab ID#: 2104261-01A

No Detections Were Found.

Client Sample ID: PNPBAS-PATH-4-040721

Lab ID#: 2104261-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.027	0.036	0.14	0.19

Client Sample ID: PNPBAS-GAC-1-040721

Lab ID#: 2104261-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.13	0.16	1.0	1.2

Client Sample ID: PNPBAS-GAC-1-040721

Lab ID#: 2104261-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.027	0.29	0.11	1.2
Trichloroethene	0.027	0.86	0.14	4.6

Client Sample ID: PNPBAS-GAC-2-040721

Lab ID#: 2104261-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.13	0.20	0.99	1.5

Client Sample ID: PNPBAS-GAC-2-040721

Lab ID#: 2104261-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.026	0.17	0.10	0.66

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PNPBAS-PATH-11-040821

Lab ID#: 2104261-04A

No Detections Were Found.

Client Sample ID: PNPBAS-PATH-11-040821

Lab ID#: 2104261-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.025	0.030	0.099	0.12
Trichloroethene	0.025	0.48	0.13	2.6
Tetrachloroethene	0.025	0.026	0.17	0.18

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Client Sample ID: PNPBAS-PATH-4-040721

Lab ID#: 2104261-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042011**	**Date of Collection:**	**4/8/21 1:02:00 PM**
Dil. Factor:	**1.34**	**Date of Analysis:**	**4/20/21 03:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.13	Not Detected	1.0	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: PNPBAS-PATH-4-040721

Lab ID#: 2104261-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042011sim**	**Date of Collection:**	**4/8/21 1:02:00 PM**
Dil. Factor:	**1.34**	**Date of Analysis:**	**4/20/21 03:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.013	Not Detected	0.034	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.053	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
1,1-Dichloroethane	0.027	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.027	Not Detected	0.11	Not Detected
Chloroform	0.027	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.027	Not Detected	0.15	Not Detected
Trichloroethene	0.027	0.036	0.14	0.19
Tetrachloroethene	0.027	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: PNPBAS-GAC-1-040721

Lab ID#: 2104261-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042012**	**Date of Collection:**	**4/8/21 10:37:00 AM**
Dil. Factor:	**1.34**	**Date of Analysis:**	**4/20/21 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.13	0.16	1.0	1.2

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: PNPBAS-GAC-1-040721

Lab ID#: 2104261-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042012sim**	**Date of Collection:**	**4/8/21 10:37:00 AM**
Dil. Factor:	**1.34**	**Date of Analysis:**	**4/20/21 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.013	Not Detected	0.034	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.053	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
1,1-Dichloroethane	0.027	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.027	0.29	0.11	1.2
Chloroform	0.027	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.027	Not Detected	0.15	Not Detected
Trichloroethene	0.027	0.86	0.14	4.6
Tetrachloroethene	0.027	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: PNPBAS-GAC-2-040721

Lab ID#: 2104261-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042013**	**Date of Collection:**	**4/8/21 12:56:00 PM**
Dil. Factor:	**1.29**	**Date of Analysis:**	**4/20/21 05:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.13	0.20	0.99	1.5

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: PNPBAS-GAC-2-040721

Lab ID#: 2104261-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042013sim**	**Date of Collection:**	**4/8/21 12:56:00 PM**
Dil. Factor:	**1.29**	**Date of Analysis:**	**4/20/21 05:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.013	Not Detected	0.033	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.051	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
1,1-Dichloroethane	0.026	Not Detected	0.10	Not Detected
cis-1,2-Dichloroethene	0.026	0.17	0.10	0.66
Chloroform	0.026	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Trichloroethene	0.026	Not Detected	0.14	Not Detected
Tetrachloroethene	0.026	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: PNPBAS-PATH-11-040821

Lab ID#: 2104261-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042014**	**Date of Collection:**	**4/8/21 1:36:00 PM**
Dil. Factor:	**1.25**	**Date of Analysis:**	**4/20/21 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.12	Not Detected	0.96	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: PNPBAS-PATH-11-040821

Lab ID#: 2104261-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042014sim**	**Date of Collection:**	**4/8/21 1:36:00 PM**
Dil. Factor:	**1.25**	**Date of Analysis:**	**4/20/21 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.012	Not Detected	0.032	Not Detected
1,1-Dichloroethene	0.012	Not Detected	0.050	Not Detected
trans-1,2-Dichloroethene	0.12	Not Detected	0.50	Not Detected
1,1-Dichloroethane	0.025	Not Detected	0.10	Not Detected
cis-1,2-Dichloroethene	0.025	0.030	0.099	0.12
Chloroform	0.025	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.025	Not Detected	0.14	Not Detected
Trichloroethene	0.025	0.48	0.13	2.6
Tetrachloroethene	0.025	0.026	0.17	0.18

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2104261-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/21 10:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.10	Not Detected	0.77	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2104261-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042006sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/21 10:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: CCV

Lab ID#: 2104261-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/21 07:11 AM**	

Compound	**%Recovery**
Freon 113	97

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	119	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2104261-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042002sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/21 07:11 AM**	

Compound	**%Recovery**
Vinyl Chloride	86
1,1-Dichloroethene	100
trans-1,2-Dichloroethene	102
1,1-Dichloroethane	108
cis-1,2-Dichloroethene	104
Chloroform	92
1,1,1-Trichloroethane	100
Trichloroethene	108
Tetrachloroethene	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	122	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2104261-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042004a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/21 08:53 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	92	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	123	70-130

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Client Sample ID: LCS

Lab ID#: 2104261-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21042004sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/21 08:53 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	88	70-130
1,1-Dichloroethene	104	70-130
trans-1,2-Dichloroethene	103	70-130
1,1-Dichloroethane	109	70-130
cis-1,2-Dichloroethene	105	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	99	70-130
Trichloroethene	100	70-130
Tetrachloroethene	96	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	119	70-130

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5/21/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: 440 WOLFE MONTHLY SAMPLING
Project #: 2700508
Workorder #: 2105322

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 5/14/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

eurofins | Air Toxics

WORK ORDER #: 2105322

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13028
FAX:	650-960-0739	**PROJECT #**	2700508 440 WOLFE MONTHLY SAMPLING
DATE RECEIVED:	05/14/2021	**CONTACT:**	Jade White
DATE COMPLETED:	05/21/2021		

FRACTION #	NAME	TEST
01A	PNPBAS-AMB-1-051221	Passive RAD 145 (TD)
02A	PNPBAS-GAC-1-051221	Passive RAD 145 (TD)
03A	PNPBAS-GAC-2-051221	Passive RAD 145 (TD)
04A	PNPBAS-OUT-1-051221	Passive RAD 145 (TD)
05A	PNPBAS-AMB-8-051221	Passive RAD 145 (TD)
06A	PNPBAS-AMB-8D-051221	Passive RAD 145 (TD)
07A	PNPBAS-999-051221	Passive RAD 145 (TD)
08A	Lab Blank	Passive RAD 145 (TD)
09A	CCV	Passive RAD 145 (TD)
10A	LCS	Passive RAD 145 (TD)
10AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 05/21/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2105322

Seven Radiello 145 (VOC TD) samples were received on May 14, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1440 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-1-051221

Lab ID#: 2105322-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	200	5.5
cis-1,2-Dichloroethene	5.0	0.14	54 C	1.5 C
Freon 113	5.0	0.13	55 C	1.4 C
Chloroform	5.0	0.097	9.5 C	0.18 C

Client Sample ID: PNPBAS-GAC-1-051221

Lab ID#: 2105322-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	650	18
Tetrachloroethene	5.0	0.15	17	0.51
cis-1,2-Dichloroethene	5.0	0.14	38 C	1.1 C
Freon 113	5.0	0.13	110 C	2.8 C
Chloroform	5.0	0.098	15 C	0.29 C

Client Sample ID: PNPBAS-GAC-2-051221

Lab ID#: 2105322-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
cis-1,2-Dichloroethene	5.0	0.14	42 C	1.1 C
Freon 113	5.0	0.13	57 C	1.5 C

Client Sample ID: PNPBAS-OUT-1-051221

Lab ID#: 2105322-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	17 C	0.41 C
Chloroform	5.0	0.093	7.6 C	0.14 C

Client Sample ID: PNPBAS-AMB-8-051221

Lab ID#: 2105322-05A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-8-051221

Lab ID#: 2105322-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	12	0.31
Freon 113	5.0	0.12	18 C	0.45 C
Chloroform	5.0	0.094	8.8 C	0.16 C

Client Sample ID: PNPBAS-AMB-8D-051221

Lab ID#: 2105322-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	13	0.34
Freon 113	5.0	0.12	24 C	0.61 C
Chloroform	5.0	0.094	8.5 C	0.16 C

Client Sample ID: PNPBAS-999-051221

Lab ID#: 2105322-07A

No Detections Were Found.

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Client Sample ID: PNPBAS-AMB-1-051221

Lab ID#: 2105322-01A

PASSIVE RAD 145 (TD)

File Name:	**6051912**	**Date of Extraction: NA**	**Date of Collection: 5/12/21 12:23:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 04:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	200	5.5
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	54 C	1.5 C
Freon 113	5.0	0.13	55 C	1.4 C
Chloroform	5.0	0.097	9.5 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 55.4F , duration time = 1437 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-1-051221

Lab ID#: 2105322-02A

PASSIVE RAD 145 (TD)

File Name:	**6051913**	**Date of Extraction: NA**	**Date of Collection: 5/12/21 12:25:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 05:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	650	18
Tetrachloroethene	5.0	0.15	17	0.51
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	38 C	1.1 C
Freon 113	5.0	0.13	110 C	2.8 C
Chloroform	5.0	0.098	15 C	0.29 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-GAC-2-051221

Lab ID#: 2105322-03A

PASSIVE RAD 145 (TD)

File Name:	**6051914**	**Date of Extraction: NA**	**Date of Collection: 5/12/21 12:28:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 06:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	42 C	1.1 C
Freon 113	5.0	0.13	57 C	1.5 C
Chloroform	5.0	0.097	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 55.4F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-051221

Lab ID#: 2105322-04A

PASSIVE RAD 145 (TD)

File Name:	**6051915**	**Date of Extraction: NA**	**Date of Collection: 5/12/21 12:48:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 06:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	17 C	0.41 C
Chloroform	5.0	0.093	7.6 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1436 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-8-051221

Lab ID#: 2105322-05A

PASSIVE RAD 145 (TD)

File Name:	**6051916**	**Date of Extraction: NA**	**Date of Collection: 5/12/21 12:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 07:19 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	12	0.31
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	18 C	0.45 C
Chloroform	5.0	0.094	8.8 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1435 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-8D-051221

Lab ID#: 2105322-06A

PASSIVE RAD 145 (TD)

File Name:	**6051917**	**Date of Extraction: NA**	**Date of Collection: 5/12/21 12:43:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 07:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	13	0.34
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	24 C	0.61 C
Chloroform	5.0	0.094	8.5 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1435 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-999-051221

Lab ID#: 2105322-07A

PASSIVE RAD 145 (TD)

File Name:	**6051911**	**Date of Extraction: NA**	**Date of Collection: 5/12/21**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 04:12 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.094	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2105322-08A

PASSIVE RAD 145 (TD)

File Name:	**6051910**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 02:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.094	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2105322-09A

PASSIVE RAD 145 (TD)

File Name:	**6051907**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 01:04 PM**

Compound	%Recovery
1,1,1-Trichloroethane	126
Trichloroethene	90
Tetrachloroethene	96
1,1-Dichloroethane	103
1,1-Dichloroethene	96
cis-1,2-Dichloroethene	107
Freon 113	113
Chloroform	119
trans-1,2-Dichloroethene	103

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2105322-10A
PASSIVE RAD 145 (TD)

File Name:	**6051908**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 01:41 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	134 Q	70-130
Trichloroethene	87	70-130
Tetrachloroethene	88	70-130
1,1-Dichloroethane	102	70-130
1,1-Dichloroethene	92	70-130
cis-1,2-Dichloroethene	108	70-130
Freon 113	117	70-130
Chloroform	116	70-130
trans-1,2-Dichloroethene	103	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2105322-10AA
PASSIVE RAD 145 (TD)

File Name:	**6051909**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/19/21 02:13 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	143 Q	70-130
Trichloroethene	87	70-130
Tetrachloroethene	88	70-130
1,1-Dichloroethane	108	70-130
1,1-Dichloroethene	100	70-130
cis-1,2-Dichloroethene	117	70-130
Freon 113	125	70-130
Chloroform	121	70-130
trans-1,2-Dichloroethene	111	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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5/27/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: 440 WOLFE MONTHLY SAMPLING
Project #: 2700508
Workorder #: 2105341

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 5/14/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2105341

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508 440 WOLFE MONTHLY SAMPLING
DATE RECEIVED:	05/14/2021	**CONTACT:**	Jade White
DATE COMPLETED:	05/27/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PNPBAS-GAC-1-051221	Modified TO-15	6.3 "Hg	1.7 psi
01B	PNPBAS-GAC-1-051221	Modified TO-15	6.3 "Hg	1.7 psi
02A	PNPBAS-GAC-2-051221	Modified TO-15	4.7 "Hg	1.6 psi
02B	PNPBAS-GAC-2-051221	Modified TO-15	4.7 "Hg	1.6 psi
03A	PNPBAS-PATH-11-051221	Modified TO-15	6.1 "Hg	1.9 psi
03B	PNPBAS-PATH-11-051221	Modified TO-15	6.1 "Hg	1.9 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
04C	Lab Blank	Modified TO-15	NA	NA
04D	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
05C	CCV	Modified TO-15	NA	NA
05D	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA
06C	LCS	Modified TO-15	NA	NA
06CC	LCSD	Modified TO-15	NA	NA
06D	LCS	Modified TO-15	NA	NA
06DD	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 05/27/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Locus Technologies
Workorder# 2105341

Three 6 Liter Summa Canister (100% SIM Ambient) samples were received on May 14, 2021. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

The Summa canister for sample PNPBAS-GAC-2-051221 was initially pressurized to approximately 2 psi per project specifications. Due to instrument error, the sample was found to be at ambient pressure at the time of TO-15 analysis. The sample canister was subsequently re-pressurized which resulted in elevated reporting limits for TO-15. Analysis proceeded.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PNPBAS-GAC-1-051221

Lab ID#: 2105341-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.14	0.15	1.1	1.1

Client Sample ID: PNPBAS-GAC-1-051221

Lab ID#: 2105341-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.028	0.28	0.11	1.1
Chloroform	0.028	0.031	0.14	0.15
Trichloroethene	0.028	0.80	0.15	4.3

Client Sample ID: PNPBAS-GAC-2-051221

Lab ID#: 2105341-02A

No Detections Were Found.

Client Sample ID: PNPBAS-GAC-2-051221

Lab ID#: 2105341-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.11	0.20	0.44	0.81

Client Sample ID: PNPBAS-PATH-11-051221

Lab ID#: 2105341-03A

No Detections Were Found.

Client Sample ID: PNPBAS-PATH-11-051221

Lab ID#: 2105341-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.028	0.11	0.11	0.43
Chloroform	0.028	0.036	0.14	0.17
Trichloroethene	0.028	3.0	0.15	16

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PNPBAS-PATH-11-051221

Lab ID#: 2105341-03B

Tetrachloroethene	0.028	0.055	0.19	0.37

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Client Sample ID: PNPBAS-GAC-1-051221

Lab ID#: 2105341-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052012**	**Date of Collection:**	**5/12/21 12:25:00 PM**
Dil. Factor:	**1.41**	**Date of Analysis:**	**5/20/21 05:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.14	0.15	1.1	1.1

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: PNPBAS-GAC-1-051221

Lab ID#: 2105341-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052012sim**	**Date of Collection:**	**5/12/21 12:25:00 PM**
Dil. Factor:	**1.41**	**Date of Analysis:**	**5/20/21 05:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.056	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	0.28	0.11	1.1
Chloroform	0.028	0.031	0.14	0.15
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Trichloroethene	0.028	0.80	0.15	4.3
Tetrachloroethene	0.028	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: PNPBAS-GAC-2-051221

Lab ID#: 2105341-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052408**	**Date of Collection:**	**5/12/21 12:28:00 PM**
Dil. Factor:	**5.50**	**Date of Analysis:**	**5/24/21 12:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.55	Not Detected	4.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: PNPBAS-GAC-2-051221

Lab ID#: 2105341-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052408sim**	**Date of Collection:**	**5/12/21 12:28:00 PM**
Dil. Factor:	**5.50**	**Date of Analysis:**	**5/24/21 12:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.055	Not Detected	0.14	Not Detected
1,1-Dichloroethene	0.055	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.55	Not Detected	2.2	Not Detected
1,1-Dichloroethane	0.11	Not Detected	0.44	Not Detected
cis-1,2-Dichloroethene	0.11	0.20	0.44	0.81
Chloroform	0.11	Not Detected	0.54	Not Detected
1,1,1-Trichloroethane	0.11	Not Detected	0.60	Not Detected
Trichloroethene	0.11	Not Detected	0.59	Not Detected
Tetrachloroethene	0.11	Not Detected	0.75	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: PNPBAS-PATH-11-051221

Lab ID#: 2105341-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052017**	**Date of Collection:**	**5/12/21 12:39:00 PM**
Dil. Factor:	**1.42**	**Date of Analysis:**	**5/20/21 10:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.14	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	114	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: PNPBAS-PATH-11-051221

Lab ID#: 2105341-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052017sim**	**Date of Collection:**	**5/12/21 12:39:00 PM**
Dil. Factor:	**1.42**	**Date of Analysis:**	**5/20/21 10:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.056	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	0.11	0.11	0.43
Chloroform	0.028	0.036	0.14	0.17
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Trichloroethene	0.028	3.0	0.15	16
Tetrachloroethene	0.028	0.055	0.19	0.37

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2105341-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052006a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 12:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.10	Not Detected	0.77	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2105341-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052006sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 12:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2105341-04C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052406a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 11:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.10	Not Detected	0.77	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	81	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2105341-04D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052406sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 11:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	83	70-130

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Client Sample ID: CCV

Lab ID#: 2105341-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 09:50 AM**	

Compound	**%Recovery**
Freon 113	95

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	117	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: CCV

Lab ID#: 2105341-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052002sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 09:50 AM**	

Compound	**%Recovery**
Vinyl Chloride	107
1,1-Dichloroethene	91
trans-1,2-Dichloroethene	99
1,1-Dichloroethane	114
cis-1,2-Dichloroethene	95
Chloroform	105
1,1,1-Trichloroethane	97
Trichloroethene	98
Tetrachloroethene	83

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: CCV

Lab ID#: 2105341-05C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 08:17 AM**

Compound	**%Recovery**
Freon 113	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 2105341-05D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052402sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 08:17 AM**	

Compound	**%Recovery**
Vinyl Chloride	89
1,1-Dichloroethene	102
trans-1,2-Dichloroethene	100
1,1-Dichloroethane	114
cis-1,2-Dichloroethene	103
Chloroform	90
1,1,1-Trichloroethane	97
Trichloroethene	98
Tetrachloroethene	103

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 2105341-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 10:48 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	101	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	114	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 2105341-06AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 11:27 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	98	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 2105341-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052003sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 10:48 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	114	70-130
1,1-Dichloroethene	94	70-130
trans-1,2-Dichloroethene	101	70-130
1,1-Dichloroethane	114	70-130
cis-1,2-Dichloroethene	98	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	99	70-130
Trichloroethene	98	70-130
Tetrachloroethene	84	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 2105341-06BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17052004sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/21 11:27 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	115	70-130
1,1-Dichloroethene	96	70-130
trans-1,2-Dichloroethene	102	70-130
1,1-Dichloroethane	115	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	99	70-130
Trichloroethene	98	70-130
Tetrachloroethene	86	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 2105341-06C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 09:08 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	86	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCSD

Lab ID#: 2105341-06CC

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 09:53 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	96	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCS

Lab ID#: 2105341-06D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052403sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 09:08 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	88	70-130
1,1-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	99	70-130
1,1-Dichloroethane	114	70-130
cis-1,2-Dichloroethene	102	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	96	70-130
Trichloroethene	98	70-130
Tetrachloroethene	99	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCSD

Lab ID#: 2105341-06DD

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21052404sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/21 09:53 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	90	70-130
1,1-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	99	70-130
1,1-Dichloroethane	116	70-130
cis-1,2-Dichloroethene	104	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	98	70-130
Trichloroethene	96	70-130
Tetrachloroethene	102	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

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1/5/2022
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: PHILIPS - ARQUES
Project #: 2700508-9018
Workorder #: 2112542

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 12/21/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kathleen Kaneko

Kathleen Kaneko
Project Manager

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WORK ORDER #: 2112542

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508-9018 PHILIPS - ARQUES
DATE RECEIVED:	12/21/2021	**CONTACT:**	Kathleen Kaneko
DATE COMPLETED:	01/05/2022		

FRACTION #	NAME	TEST
01A	PG-AMB-1-121521	Passive RAD 145 (TD)
02A	PG-AMB-2-121521	Passive RAD 145 (TD)
03A	PG-AMB-3-121521	Passive RAD 145 (TD)
04A	PG-AMB-4-121521	Passive RAD 145 (TD)
05A	PG-AMB-6-121521	Passive RAD 145 (TD)
06A	PG-PATH-1-121521	Passive RAD 145 (TD)
07A	PG-PATH-2-121521	Passive RAD 145 (TD)
08A	PG-PATH-3-121521	Passive RAD 145 (TD)
09A	PG-AMB-10-121521	Passive RAD 145 (TD)
10A	PG-AMB-7-121521	Passive RAD 145 (TD)
11A	PG-AMB-8-121521	Passive RAD 145 (TD)
12A	PG-AMB-9-121521	Passive RAD 145 (TD)
13A	PG-OUT-1-121521	Passive RAD 145 (TD)
14A	PG-OUT-2-121521	Passive RAD 145 (TD)
15A	PG-AMB-1-D-121521	Passive RAD 145 (TD)
16A	PG-999-121521	Passive RAD 145 (TD)
17A	Lab Blank	Passive RAD 145 (TD)
18A	CCV	Passive RAD 145 (TD)
19A	LCS	Passive RAD 145 (TD)
19AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 01/05/22

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209221, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT N ELAP – CA009332021-13, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2112542

Sixteen Radiello 145 (VOC TD) samples were received on December 21, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1456 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-1-121521

Lab ID#: 2112542-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	22 C	0.56 C
Chloroform	5.0	0.097	6.1 C	0.12 C

Client Sample ID: PG-AMB-2-121521

Lab ID#: 2112542-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	18 C	0.46 C
Chloroform	5.0	0.097	6.2 C	0.12 C

Client Sample ID: PG-AMB-3-121521

Lab ID#: 2112542-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	6.4 C	0.12 C

Client Sample ID: PG-AMB-4-121521

Lab ID#: 2112542-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	5.9 C	0.11 C

Client Sample ID: PG-AMB-6-121521

Lab ID#: 2112542-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	24 C	0.62 C

Client Sample ID: PG-PATH-1-121521

Lab ID#: 2112542-06A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-PATH-1-121521

Lab ID#: 2112542-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	5.9	0.16
Freon 113	5.0	0.13	20 C	0.51 C
Chloroform	5.0	0.096	33 C	0.63 C

Client Sample ID: PG-PATH-2-121521

Lab ID#: 2112542-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	19 C	0.49 C
Chloroform	5.0	0.097	9.4 C	0.18 C

Client Sample ID: PG-PATH-3-121521

Lab ID#: 2112542-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	22 C	0.56 C
Chloroform	5.0	0.097	9.0 C	0.17 C

Client Sample ID: PG-AMB-10-121521

Lab ID#: 2112542-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	19 C	0.50 C
Chloroform	5.0	0.096	6.1 C	0.12 C

Client Sample ID: PG-AMB-7-121521

Lab ID#: 2112542-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	6.8 C	0.13 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-AMB-8-121521

Lab ID#: 2112542-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.54 C
Chloroform	5.0	0.098	6.7 C	0.13 C

Client Sample ID: PG-AMB-9-121521

Lab ID#: 2112542-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	17 C	0.44 C
Chloroform	5.0	0.098	5.5 C	0.11 C

Client Sample ID: PG-OUT-1-121521

Lab ID#: 2112542-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	19 C	0.48 C

Client Sample ID: PG-OUT-2-121521

Lab ID#: 2112542-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.53 C

Client Sample ID: PG-AMB-1-D-121521

Lab ID#: 2112542-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.54 C
Chloroform	5.0	0.097	5.9 C	0.11 C

Client Sample ID: PG-999-121521

Lab ID#: 2112542-16A

No Detections Were Found.

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Client Sample ID: PG-AMB-1-121521

Lab ID#: 2112542-01A

PASSIVE RAD 145 (TD)

File Name:	**9123013**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 05:16 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.56 C
Chloroform	5.0	0.097	6.1 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1454 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-2-121521

Lab ID#: 2112542-02A

PASSIVE RAD 145 (TD)

File Name:	**9123014**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:25:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 05:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	18 C	0.46 C
Chloroform	5.0	0.097	6.2 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1453 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-3-121521

Lab ID#: 2112542-03A

PASSIVE RAD 145 (TD)

File Name:	**9123015**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:23:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 06:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	6.4 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1456 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-4-121521

Lab ID#: 2112542-04A

PASSIVE RAD 145 (TD)

File Name:	**9123016**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:27:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 07:15 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	5.9 C	0.11 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1454 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-6-121521

Lab ID#: 2112542-05A

PASSIVE RAD 145 (TD)

File Name:	**9123017**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:30:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 07:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.62 C
Chloroform	5.0	0.097	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1453 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-PATH-1-121521

Lab ID#: 2112542-06A

PASSIVE RAD 145 (TD)

File Name:	**9123018**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:33:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 08:34 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	5.9	0.16
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	20 C	0.51 C
Chloroform	5.0	0.096	33 C	0.63 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1452 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-PATH-2-121521

Lab ID#: 2112542-07A

PASSIVE RAD 145 (TD)

File Name:	**9123019**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:50:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 09:14 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	19 C	0.49 C
Chloroform	5.0	0.097	9.4 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 55.4F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-PATH-3-121521

Lab ID#: 2112542-08A

PASSIVE RAD 145 (TD)

File Name:	**9123020**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:35:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 09:53 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.56 C
Chloroform	5.0	0.097	9.0 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1451 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-10-121521

Lab ID#: 2112542-09A

PASSIVE RAD 145 (TD)

File Name:	**9123021**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 10:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	19 C	0.50 C
Chloroform	5.0	0.096	6.1 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1448 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-7-121521

Lab ID#: 2112542-10A

PASSIVE RAD 145 (TD)

File Name:	**9123022**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:42:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 11:13 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	6.8 C	0.13 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1449 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-8-121521

Lab ID#: 2112542-11A

PASSIVE RAD 145 (TD)

File Name:	**9123023**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:46:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 11:53 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.54 C
Chloroform	5.0	0.098	6.7 C	0.13 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1446 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-9-121521

Lab ID#: 2112542-12A

PASSIVE RAD 145 (TD)

File Name:	**9123024**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:48:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 12:33 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	17 C	0.44 C
Chloroform	5.0	0.098	5.5 C	0.11 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.8F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-1-121521

Lab ID#: 2112542-13A

PASSIVE RAD 145 (TD)

File Name:	**9123025**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:55:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 01:12 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	19 C	0.48 C
Chloroform	5.0	0.097	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 55.4F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-2-121521

Lab ID#: 2112542-14A

PASSIVE RAD 145 (TD)

File Name:	**9123026**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 3:00:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 01:52 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.53 C
Chloroform	5.0	0.097	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 55.4F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-AMB-1-D-121521

Lab ID#: 2112542-15A

PASSIVE RAD 145 (TD)

File Name:	**9123027**	**Date of Extraction: NA**	**Date of Collection: 12/15/21 2:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 02:31 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.54 C
Chloroform	5.0	0.097	5.9 C	0.11 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 53.6F , duration time = 1454 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-999-121521

Lab ID#: 2112542-16A

PASSIVE RAD 145 (TD)

File Name:	**9123012**	**Date of Extraction: NA**	**Date of Collection: 12/15/21**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 04:36 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.091	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 77.0F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2112542-17A

PASSIVE RAD 145 (TD)

File Name:	**9123011**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 02:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.10	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.090	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 77.0F , duration time = 1456 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2112542-18A

PASSIVE RAD 145 (TD)

File Name:	**9123008**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 12:48 PM**

Compound	%Recovery
1,1,1-Trichloroethane	99
Trichloroethene	81
Tetrachloroethene	95
1,1-Dichloroethane	90
1,1-Dichloroethene	76
cis-1,2-Dichloroethene	86
Freon 113	87
Chloroform	86
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2112542-19A
PASSIVE RAD 145 (TD)

File Name:	**9123009**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 01:27 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	94	70-130
Trichloroethene	94	70-130
Tetrachloroethene	110	70-130
1,1-Dichloroethane	87	70-130
1,1-Dichloroethene	88	70-130
cis-1,2-Dichloroethene	86	70-130
Freon 113	82	70-130
Chloroform	84	70-130
trans-1,2-Dichloroethene	89	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2112542-19AA
PASSIVE RAD 145 (TD)

File Name:	**9123010**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 02:00 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	70-130
Trichloroethene	97	70-130
Tetrachloroethene	110	70-130
1,1-Dichloroethane	88	70-130
1,1-Dichloroethene	95	70-130
cis-1,2-Dichloroethene	87	70-130
Freon 113	82	70-130
Chloroform	84	70-130
trans-1,2-Dichloroethene	91	70-130

Container Type: NA - Not Applicable

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1/6/2022
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: PHILIPS - ARQUES
Project #: 2700508-9018
Workorder #: 2112544

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 12/21/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kathleen Kaneko

Kathleen Kaneko
Project Manager

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WORK ORDER #: 2112544

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508-9018 PHILIPS - ARQUES
DATE RECEIVED:	12/21/2021	**CONTACT:**	Kathleen Kaneko
DATE COMPLETED:	01/06/2022		

FRACTION #	NAME	TEST
01A	PNPBAS-AMB-1-121621	Passive RAD 145 (TD)
02A	PNPBAS-PATH-5-121621	Passive RAD 145 (TD)
03A	PNPBAS-PATH-1-121621	Passive RAD 145 (TD)
04A	PNPBAS-PATH-2-121621	Passive RAD 145 (TD)
05A	PNPBAS-AMB-2-121621	Passive RAD 145 (TD)
06A	PNPBAS-AMB-8-121621	Passive RAD 145 (TD)
07A	PNPBAS-PATH-11-121621	Passive RAD 145 (TD)
08A	PNPBAS-PATH-3-121621	Passive RAD 145 (TD)
09A	PNPBAS-AMB-3-121621	Passive RAD 145 (TD)
10A	PNPBAS-AMB-4-121621	Passive RAD 145 (TD)
11A	PNPBAS-AMB-5-121621	Passive RAD 145 (TD)
12A	PNPBAS-AMB-5D-121621	Passive RAD 145 (TD)
13A	PNPBAS-AMB-6-121621	Passive RAD 145 (TD)
14A	PNPBAS-OUT-1-121621	Passive RAD 145 (TD)
15A	PNPOFF-AMB-1-121621	Passive RAD 145 (TD)
16A	PNPOFF-AMB-2-121621	Passive RAD 145 (TD)
17A	PNPOFF-AMB-3-121621	Passive RAD 145 (TD)
18A	PNPOFF-AMB-4-121621	Passive RAD 145 (TD)
19A	PNPOFF-AMB-5-121621	Passive RAD 145 (TD)
20A	PNPOFF-PATH-1-121621	Passive RAD 145 (TD)
21A	PNPOFF-AMB-7-121621	Passive RAD 145 (TD)
22A	PNPOFF-AMB-6-121621	Passive RAD 145 (TD)
23A	PNPOFF-OUT-1-121621	Passive RAD 145 (TD)

Continued on next page

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WORK ORDER #: 2112544

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508-9018 PHILIPS - ARQUES
DATE RECEIVED:	12/21/2021	**CONTACT:**	Kathleen Kaneko
DATE COMPLETED:	01/06/2022		

FRACTION #	NAME	TEST
24A	PNPOFF-999-121621	Passive RAD 145 (TD)
25A	Lab Blank	Passive RAD 145 (TD)
25B	Lab Blank	Passive RAD 145 (TD)
26A	CCV	Passive RAD 145 (TD)
26B	CCV	Passive RAD 145 (TD)
27A	LCS	Passive RAD 145 (TD)
27AA	LCSD	Passive RAD 145 (TD)
27B	LCS	Passive RAD 145 (TD)
27BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/06/22

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209221, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT N ELAP – CA009332021-13, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2112544

Twenty-four Radiello 145 (VOC TD) samples were received on December 21, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks and sample PNPOFF-999-121621, a sampling duration of 1440 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-1-121621

Lab ID#: 2112544-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	140	3.9
cis-1,2-Dichloroethene	5.0	0.14	32 C	0.87 C
Freon 113	5.0	0.13	28 C	0.72 C
Chloroform	5.0	0.097	6.8 C	0.13 C

Client Sample ID: PNPBAS-PATH-5-121621

Lab ID#: 2112544-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	150	4.0
cis-1,2-Dichloroethene	5.0	0.14	33 C	0.93 C
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	5.0	0.099	8.2 C	0.16 C

Client Sample ID: PNPBAS-PATH-1-121621

Lab ID#: 2112544-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	16	0.42
Freon 113	5.0	0.13	21 C	0.53 C
Chloroform	5.0	0.095	11 C	0.20 C

Client Sample ID: PNPBAS-PATH-2-121621

Lab ID#: 2112544-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	9.5	0.25
Freon 113	5.0	0.12	22 C	0.56 C
Chloroform	5.0	0.094	6.6 C	0.12 C

Client Sample ID: PNPBAS-AMB-2-121621

Lab ID#: 2112544-05A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-2-121621

Lab ID#: 2112544-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	7.9	0.21
Freon 113	5.0	0.12	23 C	0.58 C
Chloroform	5.0	0.094	6.7 C	0.12 C

Client Sample ID: PNPBAS-AMB-8-121621

Lab ID#: 2112544-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	5.5	0.15
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.096	6.0 C	0.12 C

Client Sample ID: PNPBAS-PATH-11-121621

Lab ID#: 2112544-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	14 C	0.37 C

Client Sample ID: PNPBAS-PATH-3-121621

Lab ID#: 2112544-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	8.5	0.23
cis-1,2-Dichloroethene	5.0	0.14	6.6 C	0.18 C
Freon 113	5.0	0.13	23 C	0.58 C
Chloroform	5.0	0.096	7.4 C	0.14 C

Client Sample ID: PNPBAS-AMB-3-121621

Lab ID#: 2112544-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	23 C	0.58 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-AMB-3-121621

Lab ID#: 2112544-09A

Chloroform	5.0	0.096	6.3 C	0.12 C

Client Sample ID: PNPBAS-AMB-4-121621

Lab ID#: 2112544-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.55 C
Chloroform	5.0	0.097	7.0 C	0.14 C

Client Sample ID: PNPBAS-AMB-5-121621

Lab ID#: 2112544-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	7.0	0.18
Freon 113	5.0	0.12	20 C	0.51 C
Chloroform	5.0	0.094	6.7 C	0.12 C

Client Sample ID: PNPBAS-AMB-5D-121621

Lab ID#: 2112544-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	7.3	0.19
Freon 113	5.0	0.12	21 C	0.52 C
Chloroform	5.0	0.094	6.4 C	0.12 C

Client Sample ID: PNPBAS-AMB-6-121621

Lab ID#: 2112544-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.13	13	0.35
Freon 113	5.0	0.12	22 C	0.55 C
Chloroform	5.0	0.094	7.0 C	0.13 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPBAS-OUT-1-121621

Lab ID#: 2112544-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	23 C	0.59 C
Chloroform	5.0	0.097	8.0 C	0.15 C

Client Sample ID: PNPOFF-AMB-1-121621

Lab ID#: 2112544-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	17 C	0.42 C
Chloroform	5.0	0.094	9.1 C	0.17 C

Client Sample ID: PNPOFF-AMB-2-121621

Lab ID#: 2112544-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	19 C	0.48 C
Chloroform	5.0	0.093	6.4 C	0.12 C

Client Sample ID: PNPOFF-AMB-3-121621

Lab ID#: 2112544-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	20 C	0.50 C
Chloroform	5.0	0.093	9.6 C	0.18 C

Client Sample ID: PNPOFF-AMB-4-121621

Lab ID#: 2112544-18A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	18 C	0.45 C
Chloroform	5.0	0.093	7.6 C	0.14 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-AMB-5-121621

Lab ID#: 2112544-19A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	15 C	0.37 C
Chloroform	5.0	0.093	5.4 C	0.10 C

Client Sample ID: PNPOFF-PATH-1-121621

Lab ID#: 2112544-20A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	16 C	0.39 C
Chloroform	5.0	0.093	23 C	0.43 C

Client Sample ID: PNPOFF-AMB-7-121621

Lab ID#: 2112544-21A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	16 C	0.40 C
Chloroform	5.0	0.092	7.8 C	0.14 C

Client Sample ID: PNPOFF-AMB-6-121621

Lab ID#: 2112544-22A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.12	18 C	0.44 C
Chloroform	5.0	0.093	6.8 C	0.13 C

Client Sample ID: PNPOFF-OUT-1-121621

Lab ID#: 2112544-23A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	7.5 C	0.14 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-999-121621

Lab ID#: 2112544-24A

No Detections Were Found.

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Client Sample ID: PNPBAS-AMB-1-121621

Lab ID#: 2112544-01A

PASSIVE RAD 145 (TD)

File Name:	**9123030**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:38:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 04:27 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	140	3.9
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	32 C	0.87 C
Freon 113	5.0	0.13	28 C	0.72 C
Chloroform	5.0	0.097	6.8 C	0.13 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 55.4F , duration time = 1438 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-5-121621

Lab ID#: 2112544-02A

PASSIVE RAD 145 (TD)

File Name:	**9123031**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:35:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 05:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	150	4.0
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	33 C	0.93 C
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	5.0	0.099	8.2 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 50.0F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-1-121621

Lab ID#: 2112544-03A

PASSIVE RAD 145 (TD)

File Name:	**9123032**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:50:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 05:46 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	16	0.42
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.53 C
Chloroform	5.0	0.095	11 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 66.2F , duration time = 1433 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-2-121621

Lab ID#: 2112544-04A

PASSIVE RAD 145 (TD)

File Name:	**9010511**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:53:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 06:34 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	9.5	0.25
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	22 C	0.56 C
Chloroform	5.0	0.094	6.6 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-2-121621

Lab ID#: 2112544-05A

PASSIVE RAD 145 (TD)

File Name:	**9010512**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:55:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 07:14 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	7.9	0.21
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	23 C	0.58 C
Chloroform	5.0	0.094	6.7 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1431 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-8-121621

Lab ID#: 2112544-06A

PASSIVE RAD 145 (TD)

File Name:	**9010513**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:59:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 07:53 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	5.5	0.15
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.096	6.0 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1433 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-11-121621

Lab ID#: 2112544-07A

PASSIVE RAD 145 (TD)

File Name:	**9010514**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 10:58:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 08:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	14 C	0.37 C
Chloroform	5.0	0.096	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1436 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-PATH-3-121621

Lab ID#: 2112544-08A

PASSIVE RAD 145 (TD)

File Name:	**9010515**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:00:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 09:12 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	8.5	0.23
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	6.6 C	0.18 C
Freon 113	5.0	0.13	23 C	0.58 C
Chloroform	5.0	0.096	7.4 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1437 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-3-121621

Lab ID#: 2112544-09A

PASSIVE RAD 145 (TD)

File Name:	**9010516**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:03:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 09:52 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	23 C	0.58 C
Chloroform	5.0	0.096	6.3 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 60.8F , duration time = 1436 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-4-121621

Lab ID#: 2112544-10A

PASSIVE RAD 145 (TD)

File Name:	**9010517**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:09:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 10:32 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.55 C
Chloroform	5.0	0.097	7.0 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-5-121621

Lab ID#: 2112544-11A

PASSIVE RAD 145 (TD)

File Name:	**9010518**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:06:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 11:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	7.0	0.18
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	20 C	0.51 C
Chloroform	5.0	0.094	6.7 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1436 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-5D-121621

Lab ID#: 2112544-12A

PASSIVE RAD 145 (TD)

File Name:	**9010519**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:06:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 11:51 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	7.3	0.19
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	21 C	0.52 C
Chloroform	5.0	0.094	6.4 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1436 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-AMB-6-121621

Lab ID#: 2112544-13A

PASSIVE RAD 145 (TD)

File Name:	**9010520**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:15:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 12:30 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	13	0.35
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	22 C	0.55 C
Chloroform	5.0	0.094	7.0 C	0.13 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 68.0F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPBAS-OUT-1-121621

Lab ID#: 2112544-14A

PASSIVE RAD 145 (TD)

File Name:	**9010521**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:11:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 01:11 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	23 C	0.59 C
Chloroform	5.0	0.097	8.0 C	0.15 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 57.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-1-121621

Lab ID#: 2112544-15A

PASSIVE RAD 145 (TD)

File Name:	**9010522**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:47:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 01:50 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	17 C	0.42 C
Chloroform	5.0	0.094	9.1 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-2-121621

Lab ID#: 2112544-16A

PASSIVE RAD 145 (TD)

File Name:	**9010523**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:20:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 02:30 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	19 C	0.48 C
Chloroform	5.0	0.093	6.4 C	0.12 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-3-121621

Lab ID#: 2112544-17A

PASSIVE RAD 145 (TD)

File Name:	**9010524**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:24:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 03:09 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	20 C	0.50 C
Chloroform	5.0	0.093	9.6 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 69.8F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-4-121621

Lab ID#: 2112544-18A

PASSIVE RAD 145 (TD)

File Name:	**9010525**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:42:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 03:49 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	18 C	0.45 C
Chloroform	5.0	0.093	7.6 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1433 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-5-121621

Lab ID#: 2112544-19A

PASSIVE RAD 145 (TD)

File Name:	**9010526**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:36:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 04:29 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	15 C	0.37 C
Chloroform	5.0	0.093	5.4 C	0.10 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1435 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-PATH-1-121621

Lab ID#: 2112544-20A

PASSIVE RAD 145 (TD)

File Name:	**9010527**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:21:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 05:08 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	16 C	0.39 C
Chloroform	5.0	0.093	23 C	0.43 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1438 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-7-121621

Lab ID#: 2112544-21A

PASSIVE RAD 145 (TD)

File Name:	**9010528**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:28:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 05:48 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	16 C	0.40 C
Chloroform	5.0	0.092	7.8 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 75.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-AMB-6-121621

Lab ID#: 2112544-22A

PASSIVE RAD 145 (TD)

File Name:	**9010529**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:39:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 06:27 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	18 C	0.44 C
Chloroform	5.0	0.093	6.8 C	0.13 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 71.6F , duration time = 1433 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-1-121621

Lab ID#: 2112544-23A

PASSIVE RAD 145 (TD)

File Name:	**9010530**	**Date of Extraction: NA**	**Date of Collection: 12/16/21 11:49:00 A**
Dil. Factor:	**1.00**		**Date of Analysis: 1/6/22 07:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	20 C	0.52 C
Chloroform	5.0	0.097	7.5 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 59.0F , duration time = 1432 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-999-121621

Lab ID#: 2112544-24A

PASSIVE RAD 145 (TD)

File Name:	**9123029**	**Date of Extraction: NA**	**Date of Collection: 12/16/21**
Dil. Factor:	**1.00**		**Date of Analysis: 12/31/21 03:48 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.092	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 75.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2112544-25A

PASSIVE RAD 145 (TD)

File Name:	**9123011**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 02:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.092	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 75.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2112544-25B

PASSIVE RAD 145 (TD)

File Name:	**9010506**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 03:27 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.13	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.13	Not Detected C	Not Detected C
Freon 113	5.0	0.12	Not Detected C	Not Detected C
Chloroform	5.0	0.092	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 75.2F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2112544-26A
PASSIVE RAD 145 (TD)

File Name:	**9123008**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 12:48 PM**

Compound	%Recovery
1,1,1-Trichloroethane	99
Trichloroethene	81
Tetrachloroethene	95
1,1-Dichloroethane	90
1,1-Dichloroethene	76
cis-1,2-Dichloroethene	86
Freon 113	87
Chloroform	86
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

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Client Sample ID: CCV
Lab ID#: 2112544-26B
PASSIVE RAD 145 (TD)

File Name:	**9010505**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 02:52 PM**

Compound	%Recovery
1,1,1-Trichloroethane	98
Trichloroethene	103
Tetrachloroethene	100
1,1-Dichloroethane	91
1,1-Dichloroethene	90
cis-1,2-Dichloroethene	86
Freon 113	88
Chloroform	98
trans-1,2-Dichloroethene	90

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2112544-27A
PASSIVE RAD 145 (TD)

File Name:	**9123009**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 01:27 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	94	70-130
Trichloroethene	94	70-130
Tetrachloroethene	110	70-130
1,1-Dichloroethane	87	70-130
1,1-Dichloroethene	88	70-130
cis-1,2-Dichloroethene	86	70-130
Freon 113	82	70-130
Chloroform	84	70-130
trans-1,2-Dichloroethene	89	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2112544-27AA
PASSIVE RAD 145 (TD)

File Name:	**9123010**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 12/30/21 02:00 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	70-130
Trichloroethene	97	70-130
Tetrachloroethene	110	70-130
1,1-Dichloroethane	88	70-130
1,1-Dichloroethene	95	70-130
cis-1,2-Dichloroethene	87	70-130
Freon 113	82	70-130
Chloroform	84	70-130
trans-1,2-Dichloroethene	91	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2112544-27B
PASSIVE RAD 145 (TD)

File Name:	**9010503**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 10:50 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	101	70-130
Trichloroethene	93	70-130
Tetrachloroethene	108	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	97	70-130
cis-1,2-Dichloroethene	89	70-130
Freon 113	88	70-130
Chloroform	86	70-130
trans-1,2-Dichloroethene	92	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2112544-27BB
PASSIVE RAD 145 (TD)

File Name:	**9010504**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/5/22 11:23 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	96	70-130
Trichloroethene	95	70-130
Tetrachloroethene	108	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	104	70-130
cis-1,2-Dichloroethene	90	70-130
Freon 113	89	70-130
Chloroform	86	70-130
trans-1,2-Dichloroethene	94	70-130

Container Type: NA - Not Applicable

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1/6/2022
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: PHILIPS-ARQUES
Project #: 2700508-9018
Workorder #: 2112619

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 12/21/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kathleen Kaneko

Kathleen Kaneko

Project Manager

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WORK ORDER #: 2112619

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13002
FAX:	650-960-0739	**PROJECT #**	2700508-9018 PHILIPS-ARQUES
DATE RECEIVED:	12/21/2021	**CONTACT:**	Kathleen Kaneko
DATE COMPLETED:	01/06/2022		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PNPBAS-SUM-PATH-4-121621`	Modified TO-15	5.1 "Hg	1.9 psi
02A	PNPBAS-SUM-PATH-4D-121621	Modified TO-15	5.7 "Hg	1.9 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 01/06/22

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209221, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-21-17, UT N ELAP – CA009332021-13, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-015, Effective date: 10/18/2021, Expiration date: 10/17/2022.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Locus Technologies
Workorder# 2112619

Two 6 Liter Summa Canister (100% SIM Ambient) samples were received on December 21, 2021 The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. Th concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PNPBAS-SUM-PATH-4-121621`

Lab ID#: 2112619-01A

No Detections Were Found.

Client Sample ID: PNPBAS-SUM-PATH-4D-121621

Lab ID#: 2112619-02A

No Detections Were Found.

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Client Sample ID: PNPBAS-SUM-PATH-4-121621`

Lab ID#: 2112619-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22122910sim**	**Date of Collection:**	**12/16/21 10:29:00**
Dil. Factor:	**1.36**	**Date of Analysis:**	**12/29/21 03:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.054	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
1,1-Dichloroethane	0.027	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.027	Not Detected	0.11	Not Detected
Chloroform	0.027	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.027	Not Detected	0.15	Not Detected
Trichloroethene	0.027	Not Detected	0.15	Not Detected
Tetrachloroethene	0.027	Not Detected	0.18	Not Detected
Freon 113	0.14	Not Detected	1.0	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	80	70-130

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Client Sample ID: PNPBAS-SUM-PATH-4D-121621

Lab ID#: 2112619-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22122911sim**	**Date of Collection:**	**12/16/21 10:29:00**
Dil. Factor:	**1.40**	**Date of Analysis:**	**12/29/21 05:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.056	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	Not Detected	0.11	Not Detected
Chloroform	0.028	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Trichloroethene	0.028	Not Detected	0.15	Not Detected
Tetrachloroethene	0.028	Not Detected	0.19	Not Detected
Freon 113	0.14	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	76	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2112619-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22122909sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/21 02:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	79	70-130

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Client Sample ID: CCV

Lab ID#: 2112619-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22122905sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/21 10:59 AM**	

Compound	**%Recovery**
Vinyl Chloride	93
1,1-Dichloroethene	82
trans-1,2-Dichloroethene	102
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	72
Chloroform	88
1,1,1-Trichloroethane	86
Trichloroethene	111
Tetrachloroethene	103
Freon 113	119

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	127	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 2112619-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22122906sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/21 12:26 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	93	70-130
1,1-Dichloroethene	80	70-130
trans-1,2-Dichloroethene	99	70-130
1,1-Dichloroethane	84	70-130
cis-1,2-Dichloroethene	70	70-130
Chloroform	84	70-130
1,1,1-Trichloroethane	84	70-130
Trichloroethene	109	70-130
Tetrachloroethene	100	70-130
Freon 113	114	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	126	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCSD

Lab ID#: 2112619-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22122907sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/29/21 01:05 PM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	93	70-130
1,1-Dichloroethene	81	70-130
trans-1,2-Dichloroethene	99	70-130
1,1-Dichloroethane	84	70-130
cis-1,2-Dichloroethene	70	70-130
Chloroform	84	70-130
1,1,1-Trichloroethane	84	70-130
Trichloroethene	107	70-130
Tetrachloroethene	99	70-130
Freon 113	113	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	124	70-130
4-Bromofluorobenzene	95	70-130

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2/22/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Triple Site
Project #: 2700508-9018
Workorder #: 2102229

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 2/9/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102229

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13005
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Triple Site
DATE RECEIVED:	02/09/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/18/2021		

FRACTION #	NAME	TEST
01A	811-OUT-1-020421	Passive RAD 145 (TD)
02A	811-OUT-2-020421	Passive RAD 145 (TD)
03A	811-OUT-3-020421	Passive RAD 145 (TD)
04A	813-OUT-9-020421	Passive RAD 145 (TD)
05A	PNPOFF-OUT-2-020421	Passive RAD 145 (TD)
06A	PNPOFF-OUT-1-020421	Passive RAD 145 (TD)
07A	813-OUT-1-020421	Passive RAD 145 (TD)
08A	813-OUT-2-020421	Passive RAD 145 (TD)
09A	813-OUT-2-D-020421	Passive RAD 145 (TD)
10A	813-OUT-4-020421	Passive RAD 145 (TD)
11A	813-OUT-4-D-020421	Passive RAD 145 (TD)
12A	PG-OUT-1-020421	Passive RAD 145 (TD)
13A	813-OUT-5-020421	Passive RAD 145 (TD)
14A	813-OUT-7-020421	Passive RAD 145 (TD)
15A	813-OUT-6-020421	Passive RAD 145 (TD)
16A	PG-OUT-2-020421	Passive RAD 145 (TD)
17A	PG-OUT-3-020421	Passive RAD 145 (TD)
18A	GROUP-C-999-020421	Passive RAD 145 (TD)
19A	Lab Blank	Passive RAD 145 (TD)
19B	Lab Blank	Passive RAD 145 (TD)
20A	CCV	Passive RAD 145 (TD)
20B	CCV	Passive RAD 145 (TD)
21A	LCS	Passive RAD 145 (TD)

Continued on next page

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WORK ORDER #: 2102229

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13005
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Triple Site
DATE RECEIVED:	02/09/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/18/2021		

FRACTION #	NAME	TEST
21AA	LCSD	Passive RAD 145 (TD)
21B	LCS	Passive RAD 145 (TD)
21BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/22/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2102229

Eighteen Radiello 145 (VOC TD) samples were received on February 09, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks, a sampling duration of 1445 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

The quantitation of Chloroform in samples 811-OUT-1-020421, 811-OUT-3-020421, PNPOFF-OUT-2-020421, 813-OUT-2-D-020421, 813-OUT-4-D-020421, 813-OUT-5-020421 and PG-OUT-3-020421 is impacted by matrix interference. The results is qualified with an "M" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 811-OUT-1-020421

Lab ID#: 2102229-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	79	2.2
Freon 113	5.0	0.13	26 C	0.68 C
Chloroform	5.0	0.098	11 CM	0.22 CM

Client Sample ID: 811-OUT-2-020421

Lab ID#: 2102229-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	54	1.5
Freon 113	5.0	0.13	31 C	0.80 C
Chloroform	5.0	0.098	7.8 C	0.15 C

Client Sample ID: 811-OUT-3-020421

Lab ID#: 2102229-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	82	2.3
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	5.0	0.098	12 CM	0.24 CM

Client Sample ID: 813-OUT-9-020421

Lab ID#: 2102229-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	50	1.4
Freon 113	5.0	0.13	33 C	0.87 C
Chloroform	5.0	0.099	10 C	0.20 C

Client Sample ID: PNPOFF-OUT-2-020421

Lab ID#: 2102229-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-OUT-2-020421

Lab ID#: 2102229-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	34	0.94
Freon 113	5.0	0.13	30 C	0.80 C
Chloroform	5.0	0.099	14 CM	0.27 CM

Client Sample ID: PNPOFF-OUT-1-020421

Lab ID#: 2102229-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	32	0.88
Freon 113	5.0	0.13	28 C	0.73 C
Chloroform	5.0	0.099	8.9 C	0.18 C

Client Sample ID: 813-OUT-1-020421

Lab ID#: 2102229-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	31	0.87
Freon 113	5.0	0.13	33 C	0.88 C
Chloroform	5.0	0.099	11 C	0.22 C

Client Sample ID: 813-OUT-2-020421

Lab ID#: 2102229-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	33	0.92
Freon 113	5.0	0.13	35 C	0.91 C
Chloroform	5.0	0.099	11 C	0.22 C

Client Sample ID: 813-OUT-2-D-020421

Lab ID#: 2102229-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 813-OUT-2-D-020421

Lab ID#: 2102229-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	33	0.90
Freon 113	5.0	0.13	36 C	0.94 C
Chloroform	5.0	0.099	14 CM	0.27 CM

Client Sample ID: 813-OUT-4-020421

Lab ID#: 2102229-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	42	1.2
Freon 113	5.0	0.13	43 C	1.1 C
Chloroform	5.0	0.099	9.8 C	0.19 C

Client Sample ID: 813-OUT-4-D-020421

Lab ID#: 2102229-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	41	1.1
Freon 113	5.0	0.13	41 C	1.1 C
Chloroform	5.0	0.099	13 CM	0.26 CM

Client Sample ID: PG-OUT-1-020421

Lab ID#: 2102229-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	49	1.4
Tetrachloroethene	5.0	0.15	5.5	0.16
Freon 113	5.0	0.13	41 C	1.1 C
Chloroform	5.0	0.099	9.3 C	0.18 C

Client Sample ID: 813-OUT-5-020421

Lab ID#: 2102229-13A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 813-OUT-5-020421

Lab ID#: 2102229-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	51	1.4
Freon 113	5.0	0.13	54 C	1.4 C
Chloroform	5.0	0.099	14 CM	0.27 CM

Client Sample ID: 813-OUT-7-020421

Lab ID#: 2102229-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	49	1.3
Freon 113	5.0	0.13	38 C	1.0 C
Chloroform	5.0	0.099	10 C	0.20 C

Client Sample ID: 813-OUT-6-020421

Lab ID#: 2102229-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	50	1.4
Freon 113	5.0	0.13	36 C	0.96 C
Chloroform	5.0	0.099	11 C	0.21 C

Client Sample ID: PG-OUT-2-020421

Lab ID#: 2102229-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	55	1.5
Freon 113	5.0	0.13	35 C	0.93 C
Chloroform	5.0	0.098	10 C	0.20 C

Client Sample ID: PG-OUT-3-020421

Lab ID#: 2102229-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-OUT-3-020421

Lab ID#: 2102229-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	62	1.7
Freon 113	5.0	0.13	35 C	0.92 C
Chloroform	5.0	0.098	12 CM	0.23 CM

Client Sample ID: GROUP-C-999-020421

Lab ID#: 2102229-18A

No Detections Were Found.

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Client Sample ID: 811-OUT-1-020421

Lab ID#: 2102229-01A

PASSIVE RAD 145 (TD)

File Name:	**6021208**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 9:30:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 12:08 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	79	2.2
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	26 C	0.68 C
Chloroform	5.0	0.098	11 CM	0.22 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.
M = Reported value may be biased due to apparent ma trix interferences.

Temperature = 49.7F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 811-OUT-2-020421

Lab ID#: 2102229-02A

PASSIVE RAD 145 (TD)

File Name:	**6021209**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 9:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 12:46 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	54	1.5
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	31 C	0.80 C
Chloroform	5.0	0.098	7.8 C	0.15 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 811-OUT-3-020421

Lab ID#: 2102229-03A

PASSIVE RAD 145 (TD)

File Name:	**6021210**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 9:50:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 01:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	82	2.3
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	5.0	0.098	12 CM	0.24 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.
M = Reported value may be biased due to apparent ma trix interferences.

Temperature = 49.7F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-9-020421

Lab ID#: 2102229-04A

PASSIVE RAD 145 (TD)

File Name:	**6021211**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 02:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	50	1.4
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	33 C	0.87 C
Chloroform	5.0	0.099	10 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-2-020421

Lab ID#: 2102229-05A

PASSIVE RAD 145 (TD)

File Name:	**6021507**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/21 01:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	34	0.94
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	30 C	0.80 C
Chloroform	5.0	0.099	14 CM	0.27 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
M = Reported value may be biased due to apparent matrix interferences.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-1-020421

Lab ID#: 2102229-06A

PASSIVE RAD 145 (TD)

File Name:	**6021213**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:20:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 03:03 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	32	0.88
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	28 C	0.73 C
Chloroform	5.0	0.099	8.9 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-1-020421

Lab ID#: 2102229-07A

PASSIVE RAD 145 (TD)

File Name:	**6021214**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 03:40 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	31	0.87
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	33 C	0.88 C
Chloroform	5.0	0.099	11 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-2-020421

Lab ID#: 2102229-08A

PASSIVE RAD 145 (TD)

File Name:	**6021215**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 04:18 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	33	0.92
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	35 C	0.91 C
Chloroform	5.0	0.099	11 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-2-D-020421

Lab ID#: 2102229-09A

PASSIVE RAD 145 (TD)

File Name:	**6021216**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:40:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 04:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	33	0.90
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	36 C	0.94 C
Chloroform	5.0	0.099	14 CM	0.27 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
M = Reported value may be biased due to apparent matrix interferences.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-4-020421

Lab ID#: 2102229-10A

PASSIVE RAD 145 (TD)

File Name:	**6021217**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:55:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 05:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	42	1.2
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	43 C	1.1 C
Chloroform	5.0	0.099	9.8 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-4-D-020421

Lab ID#: 2102229-11A

PASSIVE RAD 145 (TD)

File Name:	**6021218**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:55:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 06:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	41	1.1
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	41 C	1.1 C
Chloroform	5.0	0.099	13 CM	0.26 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
M = Reported value may be biased due to apparent matrix interferences.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-1-020421

Lab ID#: 2102229-12A

PASSIVE RAD 145 (TD)

File Name:	**6021219**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 11:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 06:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	49	1.4
Tetrachloroethene	5.0	0.15	5.5	0.16
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	41 C	1.1 C
Chloroform	5.0	0.099	9.3 C	0.18 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-5-020421

Lab ID#: 2102229-13A

PASSIVE RAD 145 (TD)

File Name:	**6021220**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 11:05:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 07:25 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	51	1.4
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	54 C	1.4 C
Chloroform	5.0	0.099	14 CM	0.27 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.
M = Reported value may be biased due to apparent ma trix interferences.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-7-020421

Lab ID#: 2102229-14A

PASSIVE RAD 145 (TD)

File Name:	**6021221**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 11:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 08:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	49	1.3
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	38 C	1.0 C
Chloroform	5.0	0.099	10 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-6-020421

Lab ID#: 2102229-15A

PASSIVE RAD 145 (TD)

File Name:	**6021222**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 11:15:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 08:40 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	50	1.4
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	36 C	0.96 C
Chloroform	5.0	0.099	11 C	0.21 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-2-020421

Lab ID#: 2102229-16A

PASSIVE RAD 145 (TD)

File Name:	**6021223**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 11:18:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 09:17 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	55	1.5
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	35 C	0.93 C
Chloroform	5.0	0.098	10 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1442 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-3-020421

Lab ID#: 2102229-17A

PASSIVE RAD 145 (TD)

File Name:	**6021224**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 11:20:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 09:55 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	62	1.7
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	35 C	0.92 C
Chloroform	5.0	0.098	12 CM	0.23 CM
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.
M = Reported value may be biased due to apparent matrix interferences.

Temperature = 49.7F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: GROUP-C-999-020421

Lab ID#: 2102229-18A

PASSIVE RAD 145 (TD)

File Name:	**6021207**	**Date of Extraction: NA**	**Date of Collection: 2/4/21**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 11:31 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.099	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102229-19A

PASSIVE RAD 145 (TD)

File Name:	**6021206**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 10:05 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.098	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102229-19B

PASSIVE RAD 145 (TD)

File Name:	**6021506**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/21 11:55 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.098	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2102229-20A

PASSIVE RAD 145 (TD)

File Name:	**6021205**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 09:31 AM**

Compound	%Recovery
1,1,1-Trichloroethane	101
Trichloroethene	77
Tetrachloroethene	90
1,1-Dichloroethane	107
1,1-Dichloroethene	98
cis-1,2-Dichloroethene	108
Freon 113	98
Chloroform	98
trans-1,2-Dichloroethene	107

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2102229-20B

PASSIVE RAD 145 (TD)

File Name:	**6021505**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/21 11:21 AM**

Compound	%Recovery
1,1,1-Trichloroethane	96
Trichloroethene	78
Tetrachloroethene	91
1,1-Dichloroethane	104
1,1-Dichloroethene	97
cis-1,2-Dichloroethene	106
Freon 113	95
Chloroform	99
trans-1,2-Dichloroethene	105

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102229-21A
PASSIVE RAD 145 (TD)

File Name:	**6021203**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 08:27 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	110	70-130
Trichloroethene	87	70-130
Tetrachloroethene	97	70-130
1,1-Dichloroethane	117	70-130
1,1-Dichloroethene	110	70-130
cis-1,2-Dichloroethene	121	70-130
Freon 113	109	70-130
Chloroform	106	70-130
trans-1,2-Dichloroethene	117	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102229-21AA
PASSIVE RAD 145 (TD)

File Name:	**6021204**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 08:58 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	108	70-130
Trichloroethene	88	70-130
Tetrachloroethene	97	70-130
1,1-Dichloroethane	113	70-130
1,1-Dichloroethene	111	70-130
cis-1,2-Dichloroethene	119	70-130
Freon 113	110	70-130
Chloroform	101	70-130
trans-1,2-Dichloroethene	119	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102229-21B
PASSIVE RAD 145 (TD)

File Name:	**6021502**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/21 09:45 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	106	70-130
Trichloroethene	83	70-130
Tetrachloroethene	94	70-130
1,1-Dichloroethane	110	70-130
1,1-Dichloroethene	102	70-130
cis-1,2-Dichloroethene	110	70-130
Freon 113	102	70-130
Chloroform	102	70-130
trans-1,2-Dichloroethene	110	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102229-21BB
PASSIVE RAD 145 (TD)

File Name:	**6021503**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/15/21 10:17 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	114	70-130
Trichloroethene	84	70-130
Tetrachloroethene	95	70-130
1,1-Dichloroethane	114	70-130
1,1-Dichloroethene	109	70-130
cis-1,2-Dichloroethene	120	70-130
Freon 113	109	70-130
Chloroform	104	70-130
trans-1,2-Dichloroethene	117	70-130

Container Type: NA - Not Applicable

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2/22/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Triple Site
Project #: 2700508-9018
Workorder #: 2102230

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 2/9/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102230

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13005
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Triple Site
DATE RECEIVED:	02/09/2021	**CONTACT:**	Jade White
DATE COMPLETED:	02/19/2021		

FRACTION #	NAME	TEST
01A	BKGD-PONDEROSA-020421	Passive RAD 145 (TD)
02A	BKGD-PONDEROSA-D-020421	Passive RAD 145 (TD)
03A	BKGD-BRALY-020421	Passive RAD 145 (TD)
04A	BKGD-VICTORY-020421	Passive RAD 145 (TD)
05A	BKGD-MURPHY-020421	Passive RAD 145 (TD)
06A	BKGD-FAIROAKS-020421	Passive RAD 145 (TD)
07A	BKGD-FAIROAKS-N-020421	Passive RAD 145 (TD)
08A	GROUP-D-999-1-020421	Passive RAD 145 (TD)
09A	Lab Blank	Passive RAD 145 (TD)
10A	CCV	Passive RAD 145 (TD)
11A	LCS	Passive RAD 145 (TD)
11AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes DATE: 02/22/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2102230

Eight Radiello 145 (VOC TD) samples were received on February 09, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1446 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Due to poor sensitivity at the time of the Method Detection Limit (MDL) study, the reporting limit for Chloroform was raised from 5.0 ng to 10.0 ng.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: BKGD-PONDEROSA-020421

Lab ID#: 2102230-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	24 C	0.62 C
Chloroform	10	0.20	12 C	0.23 C

Client Sample ID: BKGD-PONDEROSA-D-020421

Lab ID#: 2102230-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	22 C	0.57 C
Chloroform	10	0.20	11 C	0.22 C

Client Sample ID: BKGD-BRALY-020421

Lab ID#: 2102230-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	23 C	0.60 C

Client Sample ID: BKGD-VICTORY-020421

Lab ID#: 2102230-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	25 C	0.65 C
Chloroform	10	0.20	12 C	0.23 C

Client Sample ID: BKGD-MURPHY-020421

Lab ID#: 2102230-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	24 C	0.62 C

Client Sample ID: BKGD-FAIROAKS-020421

Lab ID#: 2102230-06A

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: BKGD-FAIROAKS-020421

Lab ID#: 2102230-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	20	0.55
Freon 113	5.0	0.13	26 C	0.67 C
Chloroform	10	0.20	10 C	0.20 C

Client Sample ID: BKGD-FAIROAKS-N-020421

Lab ID#: 2102230-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	18	0.48
Freon 113	5.0	0.13	26 C	0.67 C
Chloroform	10	0.20	12 C	0.23 C

Client Sample ID: GROUP-D-999-1-020421

Lab ID#: 2102230-08A

No Detections Were Found.

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Client Sample ID: BKGD-PONDEROSA-020421

Lab ID#: 2102230-01A

PASSIVE RAD 145 (TD)

File Name:	**11021208**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 9:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 12:52 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.62 C
Chloroform	10	0.20	12 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1446 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-PONDEROSA-D-020421

Lab ID#: 2102230-02A

PASSIVE RAD 145 (TD)

File Name:	**11021209**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 9:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 01:37 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.57 C
Chloroform	10	0.20	11 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1446 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-BRALY-020421

Lab ID#: 2102230-03A

PASSIVE RAD 145 (TD)

File Name:	**11021210**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 9:47:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 02:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	23 C	0.60 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1446 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-VICTORY-020421

Lab ID#: 2102230-04A

PASSIVE RAD 145 (TD)

File Name:	**11021211**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:01:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 03:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.65 C
Chloroform	10	0.20	12 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1444 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-MURPHY-020421

Lab ID#: 2102230-05A

PASSIVE RAD 145 (TD)

File Name:	**11021212**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:13:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 03:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	24 C	0.62 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1438 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-FAIROAKS-020421

Lab ID#: 2102230-06A

PASSIVE RAD 145 (TD)

File Name:	**11021213**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:25:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 04:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	20	0.55
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	26 C	0.67 C
Chloroform	10	0.20	10 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-FAIROAKS-N-020421

Lab ID#: 2102230-07A

PASSIVE RAD 145 (TD)

File Name:	**11021214**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:34:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 05:19 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	18	0.48
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	26 C	0.67 C
Chloroform	10	0.20	12 C	0.23 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1441 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: GROUP-D-999-1-020421

Lab ID#: 2102230-08A

PASSIVE RAD 145 (TD)

File Name:	**11021207**	**Date of Extraction: NA**	**Date of Collection: 2/4/21 10:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 12:08 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.38	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102230-09A

PASSIVE RAD 145 (TD)

File Name:	**11021206**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 10:45 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 49.7F , duration time = 1446 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2102230-10A
PASSIVE RAD 145 (TD)

File Name:	**11021205**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 10:05 AM**

Compound	%Recovery
1,1,1-Trichloroethane	100
Trichloroethene	91
Tetrachloroethene	119
1,1-Dichloroethane	98
1,1-Dichloroethene	89
cis-1,2-Dichloroethene	104
Freon 113	88
Chloroform	114
trans-1,2-Dichloroethene	80

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102230-11A
PASSIVE RAD 145 (TD)

File Name:	**11021203**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 08:48 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	113	70-130
Trichloroethene	114	70-130
Tetrachloroethene	115	70-130
1,1-Dichloroethane	105	70-130
1,1-Dichloroethene	86	70-130
cis-1,2-Dichloroethene	107	70-130
Freon 113	92	70-130
Chloroform	111	70-130
trans-1,2-Dichloroethene	82	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102230-11AA
PASSIVE RAD 145 (TD)

File Name:	**11021204**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/12/21 09:25 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	116	70-130
Trichloroethene	116	70-130
Tetrachloroethene	120	70-130
1,1-Dichloroethane	107	70-130
1,1-Dichloroethene	91	70-130
cis-1,2-Dichloroethene	112	70-130
Freon 113	95	70-130
Chloroform	112	70-130
trans-1,2-Dichloroethene	84	70-130

Container Type: NA - Not Applicable

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3/2/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Triple Site
Project #: 2700508-9018
Workorder #: 2102388

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 2/17/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102388

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13005
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Triple Site
DATE RECEIVED:	02/17/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/02/2021		

FRACTION #	NAME	TEST
01A	BKGD-PONDEROSA-020921	Passive RAD 145 (TD)
02A	BKGD-PONDEROSA-D-020921	Passive RAD 145 (TD)
03A	BKGD-VICTORY-020921	Passive RAD 145 (TD)
04A	BKGD-MURPHY-020921	Passive RAD 145 (TD)
05A	BKGD-FAIROAKS-020921	Passive RAD 145 (TD)
06A	BKGD-FAIROAKS-N-020921	Passive RAD 145 (TD)
07A	GROUP-D-999-1-020921	Passive RAD 145 (TD)
08A	Lab Blank	Passive RAD 145 (TD)
09A	CCV	Passive RAD 145 (TD)
10A	LCS	Passive RAD 145 (TD)
10AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/02/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2102388

Seven Radiello 145 (VOC TD) samples were received on February 17, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1440 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: BKGD-PONDEROSA-020921

Lab ID#: 2102388-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.56 C
Chloroform	5.0	0.098	7.8 C	0.15 C

Client Sample ID: BKGD-PONDEROSA-D-020921

Lab ID#: 2102388-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.56 C
Chloroform	5.0	0.098	7.4 C	0.14 C

Client Sample ID: BKGD-VICTORY-020921

Lab ID#: 2102388-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	22 C	0.57 C
Chloroform	5.0	0.098	9.9 C	0.19 C

Client Sample ID: BKGD-MURPHY-020921

Lab ID#: 2102388-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	21 C	0.55 C
Chloroform	5.0	0.098	8.6 C	0.17 C

Client Sample ID: BKGD-FAIROAKS-020921

Lab ID#: 2102388-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	19 C	0.51 C
Chloroform	5.0	0.098	11 C	0.22 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: BKGD-FAIROAKS-N-020921

Lab ID#: 2102388-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Freon 113	5.0	0.13	22 C	0.58 C
Chloroform	5.0	0.098	8.3 C	0.16 C

Client Sample ID: GROUP-D-999-1-020921

Lab ID#: 2102388-07A

No Detections Were Found.

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Client Sample ID: BKGD-PONDEROSA-020921

Lab ID#: 2102388-01A

PASSIVE RAD 145 (TD)

File Name:	**70022511**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 04:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.56 C
Chloroform	5.0	0.098	7.8 C	0.15 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-PONDEROSA-D-020921

Lab ID#: 2102388-02A

PASSIVE RAD 145 (TD)

File Name:	**70022512**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 05:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.56 C
Chloroform	5.0	0.098	7.4 C	0.14 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-VICTORY-020921

Lab ID#: 2102388-03A

PASSIVE RAD 145 (TD)

File Name:	**70022513**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:22:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 05:44 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.57 C
Chloroform	5.0	0.098	9.9 C	0.19 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-MURPHY-020921

Lab ID#: 2102388-04A

PASSIVE RAD 145 (TD)

File Name:	**70022514**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:32:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 06:25 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	21 C	0.55 C
Chloroform	5.0	0.098	8.6 C	0.17 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-FAIROAKS-020921

Lab ID#: 2102388-05A

PASSIVE RAD 145 (TD)

File Name:	**70022515**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:41:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 07:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	19 C	0.51 C
Chloroform	5.0	0.098	11 C	0.22 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: BKGD-FAIROAKS-N-020921

Lab ID#: 2102388-06A

PASSIVE RAD 145 (TD)

File Name:	**70022516**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:48:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 07:45 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.58 C
Chloroform	5.0	0.098	8.3 C	0.16 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: GROUP-D-999-1-020921

Lab ID#: 2102388-07A

PASSIVE RAD 145 (TD)

File Name:	**70022510**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:48:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 03:43 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.098	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102388-08A

PASSIVE RAD 145 (TD)

File Name:	**70022505**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 11:40 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	5.0	0.098	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV

Lab ID#: 2102388-09A

PASSIVE RAD 145 (TD)

File Name:	**70022502**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 09:53 AM**

Compound	%Recovery
1,1,1-Trichloroethane	97
Trichloroethene	117
Tetrachloroethene	90
1,1-Dichloroethane	93
1,1-Dichloroethene	94
cis-1,2-Dichloroethene	93
Freon 113	89
Chloroform	71
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102388-10A
PASSIVE RAD 145 (TD)

File Name:	**70022503**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 10:33 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	90	70-130
Trichloroethene	83	70-130
Tetrachloroethene	80	70-130
1,1-Dichloroethane	89	70-130
1,1-Dichloroethene	86	70-130
cis-1,2-Dichloroethene	96	70-130
Freon 113	88	70-130
Chloroform	85	70-130
trans-1,2-Dichloroethene	91	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102388-10AA
PASSIVE RAD 145 (TD)

File Name:	**70022504**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/25/21 11:06 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	94	70-130
Trichloroethene	83	70-130
Tetrachloroethene	81	70-130
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	91	70-130
cis-1,2-Dichloroethene	101	70-130
Freon 113	94	70-130
Chloroform	89	70-130
trans-1,2-Dichloroethene	96	70-130

Container Type: NA - Not Applicable

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3/23/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Triple Site
Project #: 2700508-9018
Workorder #: 2102390R1

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 2/17/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2102390R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13005
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Triple Site
DATE RECEIVED:	02/17/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/02/2021		
DATE REISSUED:	03/19/2021		

FRACTION #	NAME	TEST
01A	811-OUT-1-020921	Passive RAD 145 (TD)
02A	811-OUT-2-020921	Passive RAD 145 (TD)
03A	811-OUT-3-020921	Passive RAD 145 (TD)
04A	813-OUT-9-020921	Passive RAD 145 (TD)
05A	PNPOFF-OUT-2-020921	Passive RAD 145 (TD)
06A	PNPOFF-OUT-1-020921	Passive RAD 145 (TD)
07A	813-OUT-1-020921	Passive RAD 145 (TD)
08A	813-OUT-2-020921	Passive RAD 145 (TD)
09A	813-OUT-2-D-020921	Passive RAD 145 (TD)
10A	813-OUT-4-020921	Passive RAD 145 (TD)
11A	813-OUT-4-D-020921	Passive RAD 145 (TD)
12A	PG-OUT-1-020921A	Passive RAD 145 (TD)
13A	813-OUT-5-020921	Passive RAD 145 (TD)
14A	813-OUT-7-020921	Passive RAD 145 (TD)
15A	813-OUT-6-020921	Passive RAD 145 (TD)
16A	PG-OUT-2-020921A	Passive RAD 145 (TD)
17A	PG-OUT-3-020921	Passive RAD 145 (TD)
18A	Group-C-999-1-020921	Passive RAD 145 (TD)
19A	Lab Blank	Passive RAD 145 (TD)
19B	Lab Blank	Passive RAD 145 (TD)
20A	CCV	Passive RAD 145 (TD)
20B	CCV	Passive RAD 145 (TD)
21A	LCS	Passive RAD 145 (TD)

Continued on next page

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WORK ORDER #: 2102390R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13005
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Triple Site
DATE RECEIVED:	02/17/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/02/2021		
DATE REISSUED:	03/19/2021		

FRACTION #	NAME	TEST
21AA	LCSD	Passive RAD 145 (TD)
21B	LCS	Passive RAD 145 (TD)
21BB	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/23/21

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Passive TO-17 GC/MS
Locus Technologies
Workorder# 2102390R1

Eighteen Radiello 145 (VOC TD) samples were received on February 17, 2021. The laboratory performed the analysis via EPA Method TO-17 using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

There were no receiving discrepancies.

The work order was reissued on 3/23/21 to change identification of samples PG-OUT-1-020921A and PG-OUT-2-020921A per the email provided by the client, as well as to correct identification of the following samples Group-C-999-1-020921 due to laboratory transcription error.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blanks, a sampling duration of 1445 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Due to poor sensitivity at the time of the Method Detection Limit (MDL) study, the reporting limit for Chloroform was raised from 5.0 ng to 10.0 ng.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissu

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 811-OUT-1-020921

Lab ID#: 2102390R1-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	26	0.70
Freon 113	5.0	0.13	26 C	0.67 C

Client Sample ID: 811-OUT-2-020921

Lab ID#: 2102390R1-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	12	0.34
Freon 113	5.0	0.13	31 C	0.81 C
Chloroform	10	0.20	10 C	0.20 C

Client Sample ID: 811-OUT-3-020921

Lab ID#: 2102390R1-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	30	0.82
Freon 113	5.0	0.13	32 C	0.85 C

Client Sample ID: 813-OUT-9-020921

Lab ID#: 2102390R1-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	12	0.32
Freon 113	5.0	0.13	25 C	0.65 C

Client Sample ID: PNPOFF-OUT-2-020921

Lab ID#: 2102390R1-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	8.0	0.22
Freon 113	5.0	0.13	22 C	0.58 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PNPOFF-OUT-1-020921

Lab ID#: 2102390R1-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	8.0	0.22
Freon 113	5.0	0.13	27 C	0.71 C

Client Sample ID: 813-OUT-1-020921

Lab ID#: 2102390R1-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	8.2	0.22
Freon 113	5.0	0.13	26 C	0.68 C

Client Sample ID: 813-OUT-2-020921

Lab ID#: 2102390R1-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	9.0	0.25
Freon 113	5.0	0.13	28 C	0.74 C

Client Sample ID: 813-OUT-2-D-020921

Lab ID#: 2102390R1-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	8.9	0.24
Freon 113	5.0	0.13	27 C	0.72 C

Client Sample ID: 813-OUT-4-020921

Lab ID#: 2102390R1-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	14	0.38
Freon 113	5.0	0.13	32 C	0.83 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 813-OUT-4-D-020921

Lab ID#: 2102390R1-11A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	13	0.37
Freon 113	5.0	0.13	30 C	0.79 C

Client Sample ID: PG-OUT-1-020921A

Lab ID#: 2102390R1-12A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	16	0.43
Freon 113	5.0	0.13	29 C	0.75 C

Client Sample ID: 813-OUT-5-020921

Lab ID#: 2102390R1-13A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	18	0.48
Freon 113	5.0	0.13	53 C	1.4 C

Client Sample ID: 813-OUT-7-020921

Lab ID#: 2102390R1-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	18	0.49
Freon 113	5.0	0.13	29 C	0.77 C

Client Sample ID: 813-OUT-6-020921

Lab ID#: 2102390R1-15A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	16	0.45
Freon 113	5.0	0.13	28 C	0.74 C

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: PG-OUT-2-020921A

Lab ID#: 2102390R1-16A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	18	0.48
Freon 113	5.0	0.13	29 C	0.77 C

Client Sample ID: PG-OUT-3-020921

Lab ID#: 2102390R1-17A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Trichloroethene	5.0	0.14	18	0.51
Freon 113	5.0	0.13	26 C	0.68 C

Client Sample ID: Group-C-999-1-020921

Lab ID#: 2102390R1-18A

No Detections Were Found.

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Client Sample ID: 811-OUT-1-020921

Lab ID#: 2102390R1-01A

PASSIVE RAD 145 (TD)

File Name:	**11022621**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:05:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 04:39 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	26	0.70
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	26 C	0.67 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 811-OUT-2-020921

Lab ID#: 2102390R1-02A

PASSIVE RAD 145 (TD)

File Name:	**11030109**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:15:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 09:24 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	12	0.34
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	31 C	0.81 C
Chloroform	10	0.20	10 C	0.20 C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 811-OUT-3-020921

Lab ID#: 2102390R1-03A

PASSIVE RAD 145 (TD)

File Name:	**11030110**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:20:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 10:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	30	0.82
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	32 C	0.85 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-9-020921

Lab ID#: 2102390R1-04A

PASSIVE RAD 145 (TD)

File Name:	**11030111**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:25:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 10:52 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	12	0.32
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	25 C	0.65 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-2-020921

Lab ID#: 2102390R1-05A

PASSIVE RAD 145 (TD)

File Name:	**11030112**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:35:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 11:36 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	8.0	0.22
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	22 C	0.58 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PNPOFF-OUT-1-020921

Lab ID#: 2102390R1-06A

PASSIVE RAD 145 (TD)

File Name:	**11030113**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:45:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 12:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	8.0	0.22
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	27 C	0.71 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-1-020921

Lab ID#: 2102390R1-07A

PASSIVE RAD 145 (TD)

File Name:	**11030114**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:50:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 01:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	8.2	0.22
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	26 C	0.68 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-2-020921

Lab ID#: 2102390R1-08A

PASSIVE RAD 145 (TD)

File Name:	**11030115**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:55:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 01:51 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	9.0	0.25
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-2-D-020921

Lab ID#: 2102390R1-09A

PASSIVE RAD 145 (TD)

File Name:	**11030116**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 9:55:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 02:36 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	8.9	0.24
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	27 C	0.72 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-4-020921

Lab ID#: 2102390R1-10A

PASSIVE RAD 145 (TD)

File Name:	**11030117**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 03:21 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	14	0.38
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	32 C	0.83 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-4-D-020921

Lab ID#: 2102390R1-11A

PASSIVE RAD 145 (TD)

File Name:	**11030118**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 04:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	13	0.37
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	30 C	0.79 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-1-020921A

Lab ID#: 2102390R1-12A

PASSIVE RAD 145 (TD)

File Name:	**11030119**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:05:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 04:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	16	0.43
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	29 C	0.75 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-5-020921

Lab ID#: 2102390R1-13A

PASSIVE RAD 145 (TD)

File Name:	**11030120**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 05:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	18	0.48
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	53 C	1.4 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-7-020921

Lab ID#: 2102390R1-14A

PASSIVE RAD 145 (TD)

File Name:	**11030121**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:15:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 06:20 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	18	0.49
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	29 C	0.77 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: 813-OUT-6-020921

Lab ID#: 2102390R1-15A

PASSIVE RAD 145 (TD)

File Name:	**11030122**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:20:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 07:04 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	16	0.45
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	28 C	0.74 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-2-020921A

Lab ID#: 2102390R1-16A

PASSIVE RAD 145 (TD)

File Name:	**11030123**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:25:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 07:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	18	0.48
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	29 C	0.77 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: PG-OUT-3-020921

Lab ID#: 2102390R1-17A

PASSIVE RAD 145 (TD)

File Name:	**11030124**	**Date of Extraction: NA**	**Date of Collection: 2/9/21 10:30:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 08:34 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	18	0.51
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	26 C	0.68 C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Group-C-999-1-020921

Lab ID#: 2102390R1-18A

PASSIVE RAD 145 (TD)

File Name:	**11022620**	**Date of Extraction: NA**	**Date of Collection: 2/9/21**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 03:54 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1440 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102390R1-19A

PASSIVE RAD 145 (TD)

File Name:	**11022619**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 02:49 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: Lab Blank

Lab ID#: 2102390R1-19B

PASSIVE RAD 145 (TD)

File Name:	**11030108**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 08:11 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.37	Not Detected	Not Detected
Trichloroethene	5.0	0.14	Not Detected	Not Detected
Tetrachloroethene	5.0	0.15	Not Detected	Not Detected
1,1-Dichloroethane	5.0	0.14	Not Detected C	Not Detected C
1,1-Dichloroethene	5.0	0.11	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C
Freon 113	5.0	0.13	Not Detected C	Not Detected C
Chloroform	10	0.20	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	5.0	0.14	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampl ing rate.

Temperature = 51.6F , duration time = 1445 minutes.
Container Type: Radiello 145 (VOC TD)

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Client Sample ID: CCV
Lab ID#: 2102390R1-20A
PASSIVE RAD 145 (TD)

File Name:	**11022613**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 10:52 AM**

Compound	%Recovery
1,1,1-Trichloroethane	115
Trichloroethene	88
Tetrachloroethene	106
1,1-Dichloroethane	99
1,1-Dichloroethene	80
cis-1,2-Dichloroethene	94
Freon 113	101
Chloroform	105
trans-1,2-Dichloroethene	80

Container Type: NA - Not Applicable

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Client Sample ID: CCV
Lab ID#: 2102390R1-20B
PASSIVE RAD 145 (TD)

File Name:	**11030102**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 04:14 AM**

Compound	%Recovery
1,1,1-Trichloroethane	124
Trichloroethene	103
Tetrachloroethene	119
1,1-Dichloroethane	108
1,1-Dichloroethene	92
cis-1,2-Dichloroethene	105
Freon 113	105
Chloroform	118
trans-1,2-Dichloroethene	93

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102390R1-21A
PASSIVE RAD 145 (TD)

File Name:	**11022617**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 01:32 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	134 Q	70-130
Trichloroethene	95	70-130
Tetrachloroethene	112	70-130
1,1-Dichloroethane	115	70-130
1,1-Dichloroethene	92	70-130
cis-1,2-Dichloroethene	113	70-130
Freon 113	118	70-130
Chloroform	122	70-130
trans-1,2-Dichloroethene	89	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102390R1-21AA
PASSIVE RAD 145 (TD)

File Name:	**11022618**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 2/26/21 02:09 PM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	137 Q	70-130
Trichloroethene	97	70-130
Tetrachloroethene	113	70-130
1,1-Dichloroethane	117	70-130
1,1-Dichloroethene	98	70-130
cis-1,2-Dichloroethene	130	70-130
Freon 113	116	70-130
Chloroform	126	70-130
trans-1,2-Dichloroethene	95	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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Client Sample ID: LCS
Lab ID#: 2102390R1-21B
PASSIVE RAD 145 (TD)

File Name:	**11030106**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 06:53 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	120	70-130
Trichloroethene	90	70-130
Tetrachloroethene	112	70-130
1,1-Dichloroethane	102	70-130
1,1-Dichloroethene	85	70-130
cis-1,2-Dichloroethene	95	70-130
Freon 113	103	70-130
Chloroform	109	70-130
trans-1,2-Dichloroethene	79	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD
Lab ID#: 2102390R1-21BB
PASSIVE RAD 145 (TD)

File Name:	**11030107**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 3/1/21 07:31 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	128	70-130
Trichloroethene	89	70-130
Tetrachloroethene	110	70-130
1,1-Dichloroethane	108	70-130
1,1-Dichloroethene	88	70-130
cis-1,2-Dichloroethene	114	70-130
Freon 113	108	70-130
Chloroform	116	70-130
trans-1,2-Dichloroethene	85	70-130

Container Type: NA - Not Applicable

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6/1/2021
Ms. Africa Espina Guzan
Locus Technologies
299 Fairchild Drive

Mountain View CA 94043

Project Name: Philips-Arques
Project #: 2700508-9018
Workorder #: 2103187R1

Dear Ms. Africa Espina Guzan

The following report includes the data for the above referenced project for sample(s) received on 3/4/2021 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2103187R1

Work Order Summary

CLIENT:	Ms. Africa Espina Guzan Locus Technologies 299 Fairchild Drive Mountain View, CA 94043	**BILL TO:**	Accounts Payable Locus Technologies 299 Fairchild Drive Mountain View, CA 94043
PHONE:	650-960-1640	**P.O. #**	30-13010
FAX:	650-960-0739	**PROJECT #**	2700508-9018 Philips-Arques
DATE RECEIVED:	03/04/2021	**CONTACT:**	Jade White
DATE COMPLETED:	03/17/2021		
DATE REISSUED:	06/01/2021		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PG-MOON-022421	Modified TO-15	6.1 "Hg	4.9 psi
01B	PG-MOON-022421	Modified TO-15	6.1 "Hg	4.9 psi
02A	PG-CLOSET-022421	Modified TO-15	5.3 "Hg	5 psi
02B	PG-CLOSET-022421	Modified TO-15	5.3 "Hg	5 psi
03A	PG-CENTER-022421	Modified TO-15	6.3 "Hg	4.9 psi
03B	PG-CENTER-022421	Modified TO-15	6.3 "Hg	4.9 psi
04A	PG-EAST-022421	Modified TO-15	6.7 "Hg	4.9 psi
04B	PG-EAST-022421	Modified TO-15	6.7 "Hg	4.9 psi
05A	PG-WEST-022421	Modified TO-15	8 "Hg	4.9 psi
05B	PG-WEST-022421	Modified TO-15	8 "Hg	4.9 psi
06A	Lab Blank	Modified TO-15	NA	NA
06B	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
07B	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCSD	Modified TO-15	NA	NA
08B	LCS	Modified TO-15	NA	NA
08BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 06/01/21

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209220, N J NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-20-16, UT N ELAP – CA009332020-12, VA NELAP - 10615, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon En vironmental Laboratory Accreditation Program)
Accreditation number: CA300005-014, Effective date: 10/18/2020, Expiration date: 10/17/2021.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full , without the written approval of Eurofins Air Toxi cs, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-827

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Locus Technologies
Workorder# 2103187R1

Five 6 Liter Summa Canister (SIM Certified) samples were received on March 04, 2021. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Dilution was performed on sample PG-MOON-022421 due to the presence of high level target species.

The workorder was reissued on 6/1/21 to report additional compounds for all samples per client request.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PG-MOON-022421

Lab ID#: 2103187R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.34	3.8	2.6	29

Client Sample ID: PG-MOON-022421

Lab ID#: 2103187R1-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.034	0.057	0.086	0.15
1,1-Dichloroethene	0.034	0.043	0.13	0.17
trans-1,2-Dichloroethene	0.34	0.45	1.3	1.8
cis-1,2-Dichloroethene	0.067	13	0.26	51
Chloroform	0.067	0.30	0.33	1.4
1,1,1-Trichloroethane	0.067	0.098	0.36	0.53
Trichloroethene	0.067	46	0.36	250
Tetrachloroethene	0.067	4.2	0.45	29

Client Sample ID: PG-CLOSET-022421

Lab ID#: 2103187R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.16	0.32	1.2	2.5

Client Sample ID: PG-CLOSET-022421

Lab ID#: 2103187R1-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.019	0.042	0.049
cis-1,2-Dichloroethene	0.033	0.26	0.13	1.0
Chloroform	0.033	0.46	0.16	2.2
1,1,1-Trichloroethane	0.033	0.037	0.18	0.20
Benzene	0.082	0.14	0.26	0.45
Trichloroethene	0.033	7.1	0.18	38
Tetrachloroethene	0.033	0.37	0.22	2.5

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PG-CENTER-022421

Lab ID#: 2103187R1-03A

No Detections Were Found.

Client Sample ID: PG-CENTER-022421

Lab ID#: 2103187R1-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.034	0.10	0.16	0.50
Benzene	0.084	0.12	0.27	0.39
Trichloroethene	0.034	12	0.18	67
Tetrachloroethene	0.034	1.5	0.23	10

Client Sample ID: PG-EAST-022421

Lab ID#: 2103187R1-04A

No Detections Were Found.

Client Sample ID: PG-EAST-022421

Lab ID#: 2103187R1-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.034	0.29	0.17	1.4
Benzene	0.086	0.16	0.27	0.51
Trichloroethene	0.034	6.3	0.18	34
Tetrachloroethene	0.034	0.60	0.23	4.0

Client Sample ID: PG-WEST-022421

Lab ID#: 2103187R1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.18	1.7	1.4	13

Client Sample ID: PG-WEST-022421

Lab ID#: 2103187R1-05B

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: PG-WEST-022421

Lab ID#: 2103187R1-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.18	0.18	0.72	0.73
cis-1,2-Dichloroethene	0.036	3.2	0.14	12
Chloroform	0.036	0.15	0.18	0.72
1,1,1-Trichloroethane	0.036	0.041	0.20	0.22
Benzene	0.091	0.13	0.29	0.41
Trichloroethene	0.036	12	0.20	63
Tetrachloroethene	0.036	1.0	0.25	7.0

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Client Sample ID: PG-MOON-022421

Lab ID#: 2103187R1-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031111r1**	**Date of Collection:**	**2/24/21 13:24:00**
Dil. Factor:	**3.35**	**Date of Analysis:**	**3/11/21 07:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.34	3.8	2.6	29
Methylene Chloride	0.67	Not Detected	2.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: PG-MOON-022421

Lab ID#: 2103187R1-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031111simr1**	**Date of Collection:**	**2/24/21 13:24:00**
Dil. Factor:	**3.35**	**Date of Analysis:**	**3/11/21 07:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.034	0.057	0.086	0.15
1,1-Dichloroethene	0.034	0.043	0.13	0.17
trans-1,2-Dichloroethene	0.34	0.45	1.3	1.8
1,1-Dichloroethane	0.067	Not Detected	0.27	Not Detected
cis-1,2-Dichloroethene	0.067	13	0.26	51
Chloroform	0.067	0.30	0.33	1.4
1,1,1-Trichloroethane	0.067	0.098	0.36	0.53
Benzene	0.17	Not Detected	0.54	Not Detected
Trichloroethene	0.067	46	0.36	250
Tetrachloroethene	0.067	4.2	0.45	29

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: PG-CLOSET-022421

Lab ID#: 2103187R1-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031112r1**	**Date of Collection:**	**2/24/21 13:40:00**
Dil. Factor:	**1.63**	**Date of Analysis:**	**3/11/21 07:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.16	0.32	1.2	2.5
Methylene Chloride	0.33	Not Detected	1.1	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: PG-CLOSET-022421

Lab ID#: 2103187R1-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031112simr1**	**Date of Collection:**	**2/24/21 13:40:00**
Dil. Factor:	**1.63**	**Date of Analysis:**	**3/11/21 07:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.019	0.042	0.049
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	0.26	0.13	1.0
Chloroform	0.033	0.46	0.16	2.2
1,1,1-Trichloroethane	0.033	0.037	0.18	0.20
Benzene	0.082	0.14	0.26	0.45
Trichloroethene	0.033	7.1	0.18	38
Tetrachloroethene	0.033	0.37	0.22	2.5

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: PG-CENTER-022421

Lab ID#: 2103187R1-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031113r1**	**Date of Collection:**	**2/24/21 14:53:00**
Dil. Factor:	**1.69**	**Date of Analysis:**	**3/11/21 09:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.17	Not Detected	1.3	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: PG-CENTER-022421

Lab ID#: 2103187R1-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031113simr1**	**Date of Collection:**	**2/24/21 14:53:00**
Dil. Factor:	**1.69**	**Date of Analysis:**	**3/11/21 09:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.10	0.16	0.50
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Benzene	0.084	0.12	0.27	0.39
Trichloroethene	0.034	12	0.18	67
Tetrachloroethene	0.034	1.5	0.23	10

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: PG-EAST-022421

Lab ID#: 2103187R1-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031114r1**	**Date of Collection:**	**2/24/21 15:03:00**
Dil. Factor:	**1.72**	**Date of Analysis:**	**3/11/21 10:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.17	Not Detected	1.3	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: PG-EAST-022421

Lab ID#: 2103187R1-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031114simr1**	**Date of Collection:**	**2/24/21 15:03:00**
Dil. Factor:	**1.72**	**Date of Analysis:**	**3/11/21 10:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
Chloroform	0.034	0.29	0.17	1.4
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Benzene	0.086	0.16	0.27	0.51
Trichloroethene	0.034	6.3	0.18	34
Tetrachloroethene	0.034	0.60	0.23	4.0

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	104	70-130

eurofins | Air Toxics

Client Sample ID: PG-WEST-022421

Lab ID#: 2103187R1-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031115r1**	**Date of Collection:**	**2/24/21 16:47:00**
Dil. Factor:	**1.82**	**Date of Analysis:**	**3/11/21 11:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.18	1.7	1.4	13
Methylene Chloride	0.36	Not Detected	1.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: PG-WEST-022421

Lab ID#: 2103187R1-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031115simr1**	**Date of Collection:**	**2/24/21 16:47:00**
Dil. Factor:	**1.82**	**Date of Analysis:**	**3/11/21 11:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.072	Not Detected
trans-1,2-Dichloroethene	0.18	0.18	0.72	0.73
1,1-Dichloroethane	0.036	Not Detected	0.15	Not Detected
cis-1,2-Dichloroethene	0.036	3.2	0.14	12
Chloroform	0.036	0.15	0.18	0.72
1,1,1-Trichloroethane	0.036	0.041	0.20	0.22
Benzene	0.091	0.13	0.29	0.41
Trichloroethene	0.036	12	0.20	63
Tetrachloroethene	0.036	1.0	0.25	7.0

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2103187R1-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031106ar1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 11:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 113	0.10	Not Detected	0.77	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2103187R1-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031106simar1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 11:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	103	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2103187R1-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 08:50 AM**	

Compound	**%Recovery**
Freon 113	96
Methylene Chloride	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	107	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2103187R1-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031102sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 08:50 AM**	

Compound	**%Recovery**
Vinyl Chloride	88
1,1-Dichloroethene	89
trans-1,2-Dichloroethene	96
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	93
Chloroform	98
1,1,1-Trichloroethane	96
Benzene	98
Trichloroethene	100
Tetrachloroethene	93

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	108	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2103187R1-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 09:43 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	100	70-130
Methylene Chloride	102	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	107	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2103187R1-08AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 10:22 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 113	100	70-130
Methylene Chloride	104	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2103187R1-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031103sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 09:43 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	92	70-130
1,1-Dichloroethene	93	70-130
trans-1,2-Dichloroethene	98	70-130
1,1-Dichloroethane	98	70-130
cis-1,2-Dichloroethene	96	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	98	70-130
Benzene	99	70-130
Trichloroethene	101	70-130
Tetrachloroethene	94	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	108	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2103187R1-08BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**17031104sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/11/21 10:22 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	93	70-130
1,1-Dichloroethene	94	70-130
trans-1,2-Dichloroethene	98	70-130
1,1-Dichloroethane	98	70-130
cis-1,2-Dichloroethene	96	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	99	70-130
Benzene	98	70-130
Trichloroethene	101	70-130
Tetrachloroethene	94	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	107	70-130

Appendix C
440 Wolfe Additional Investigation Photo Log

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APPENDIX C: 440 WOLFE ADDITIONAL INVESTIGATION PHOTOS FROM 13 MAY AND 16 JUNE 2021

Photo 1: Sample location PNPBAS-PATH-11, a utility cover, opened for investigation (13 May 2021)

Photo 2: Sample location PNPBAS-PATH-11 during sampling (13 Jun 2021)

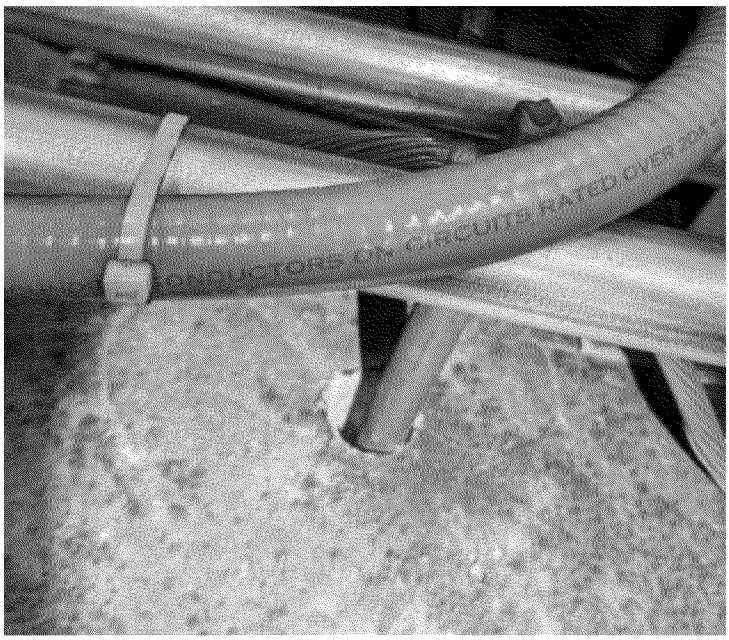

Photo 3: Unsealed boring of foundation slab for electrical grounding rod in server room (16 Jun 2021)

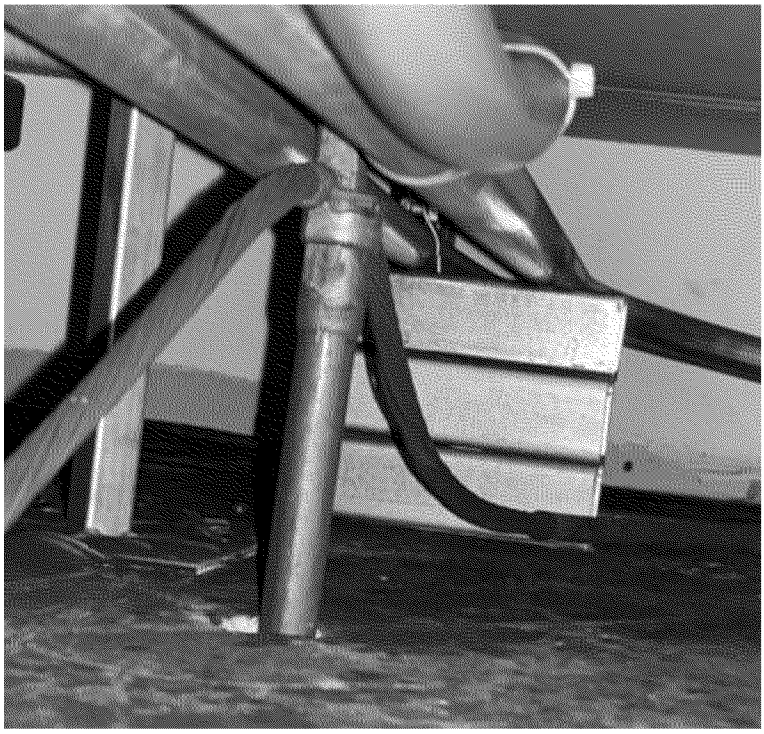

Photo 4: Unsealed boring for electrical grounding rod at a different angle (16 Jun 2021)

Appendix D
FROG Reports

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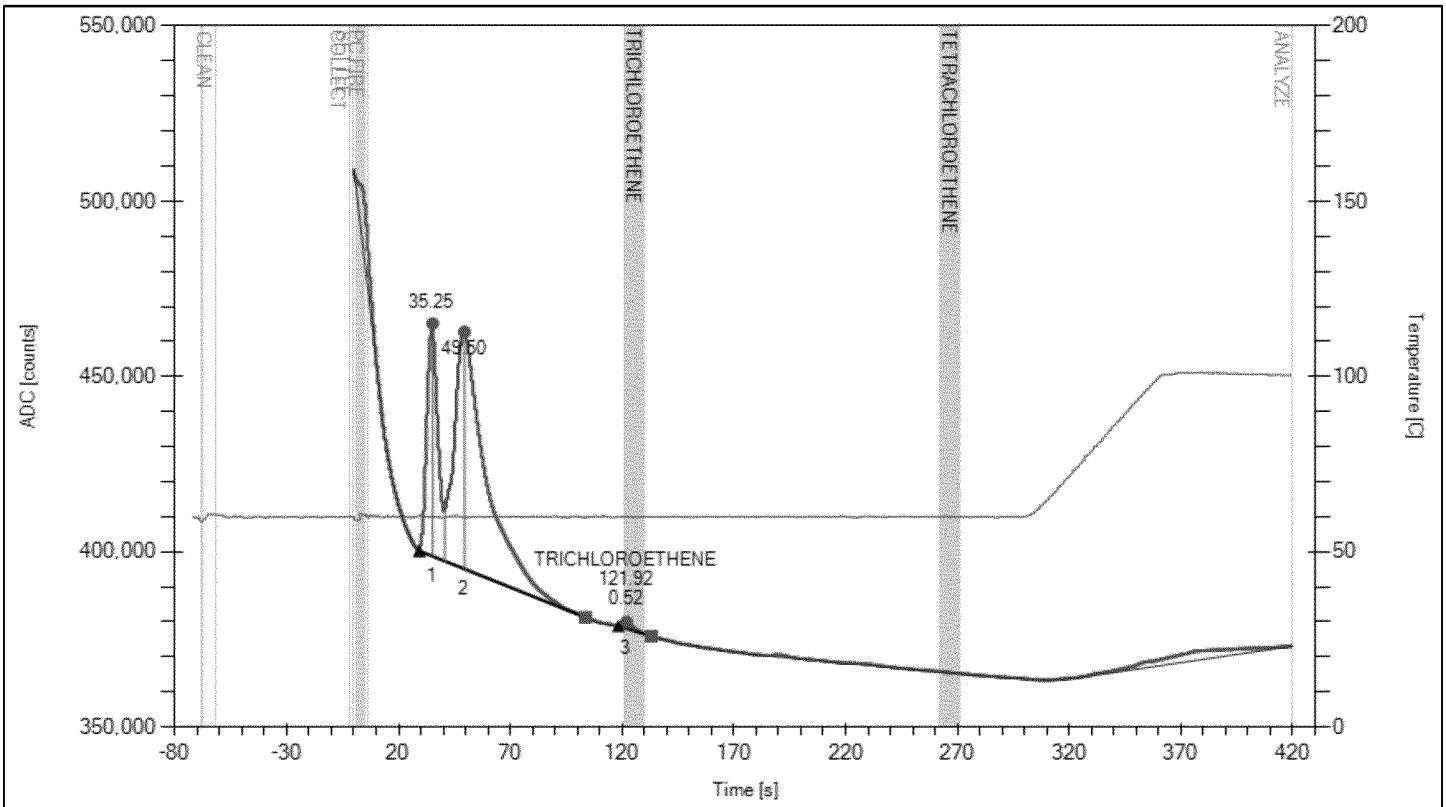
2021-04-07 15:09:10Z
FROG-0113:Ta=300, Tb=60, Tc=60, Ct=60, Ht=100, collect=60, clean=6, presettle=4, settle=2, fire=6;
Pump=80%, 76%
Dilution = 1.0
D:\00000000\LOG_613.LOG

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.25	66396	376465		
2		49.5	67682	1120430		
3	TRICHLOROETHENE	121.92	1899	11356	0.52	0.52



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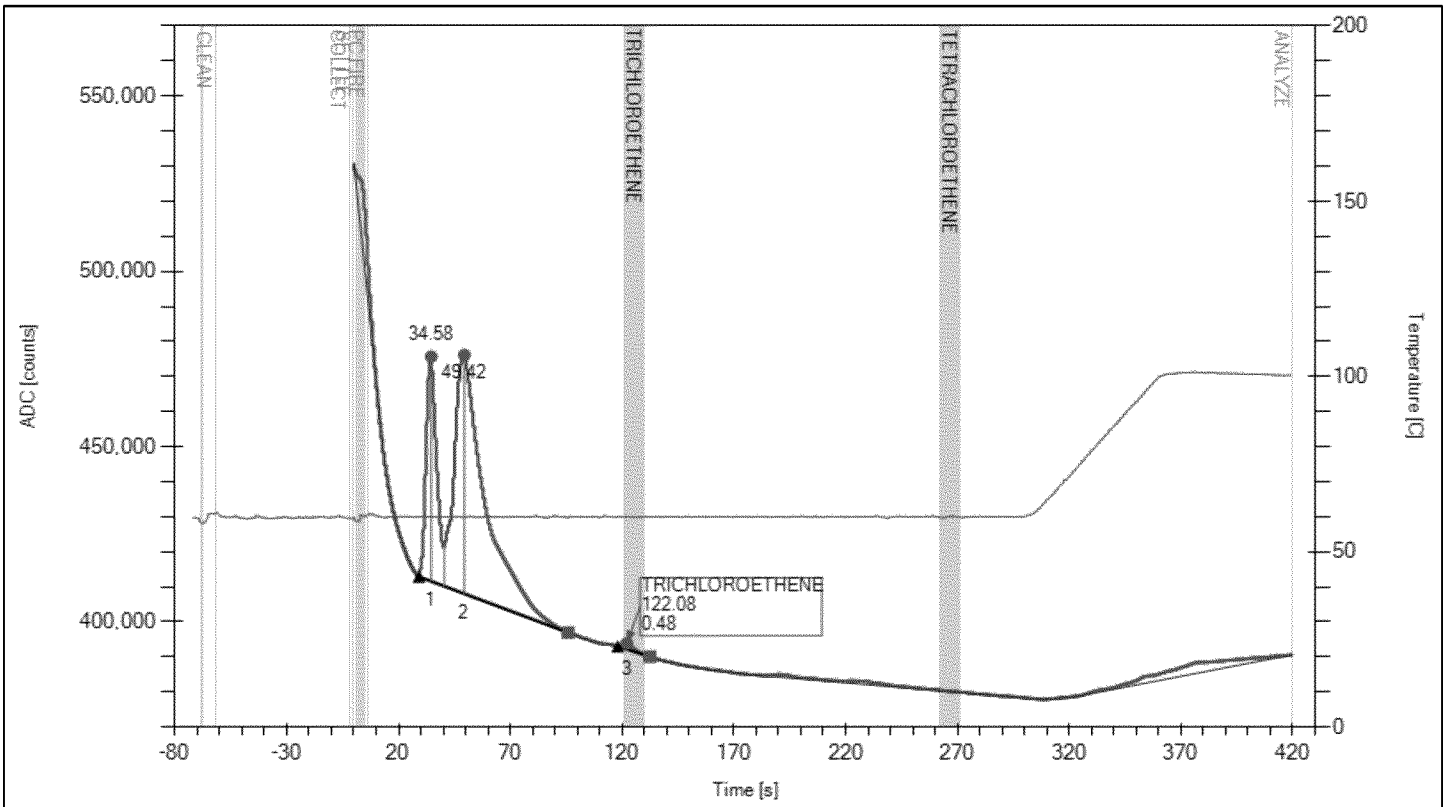
Pump=80%, 77%
Dilution = 1.0
D:\00000000\LOG_613.LOG

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.58	64097	346597		
2		49.42	68145	1090473		
3	TRICHLOROETHENE	122.08	1689	10500	0.48	0.48



Red: C:\Users\want\OneDrive - Locus Technologies\Documents\EllvinData\20210407\1435_LOG_616.xml

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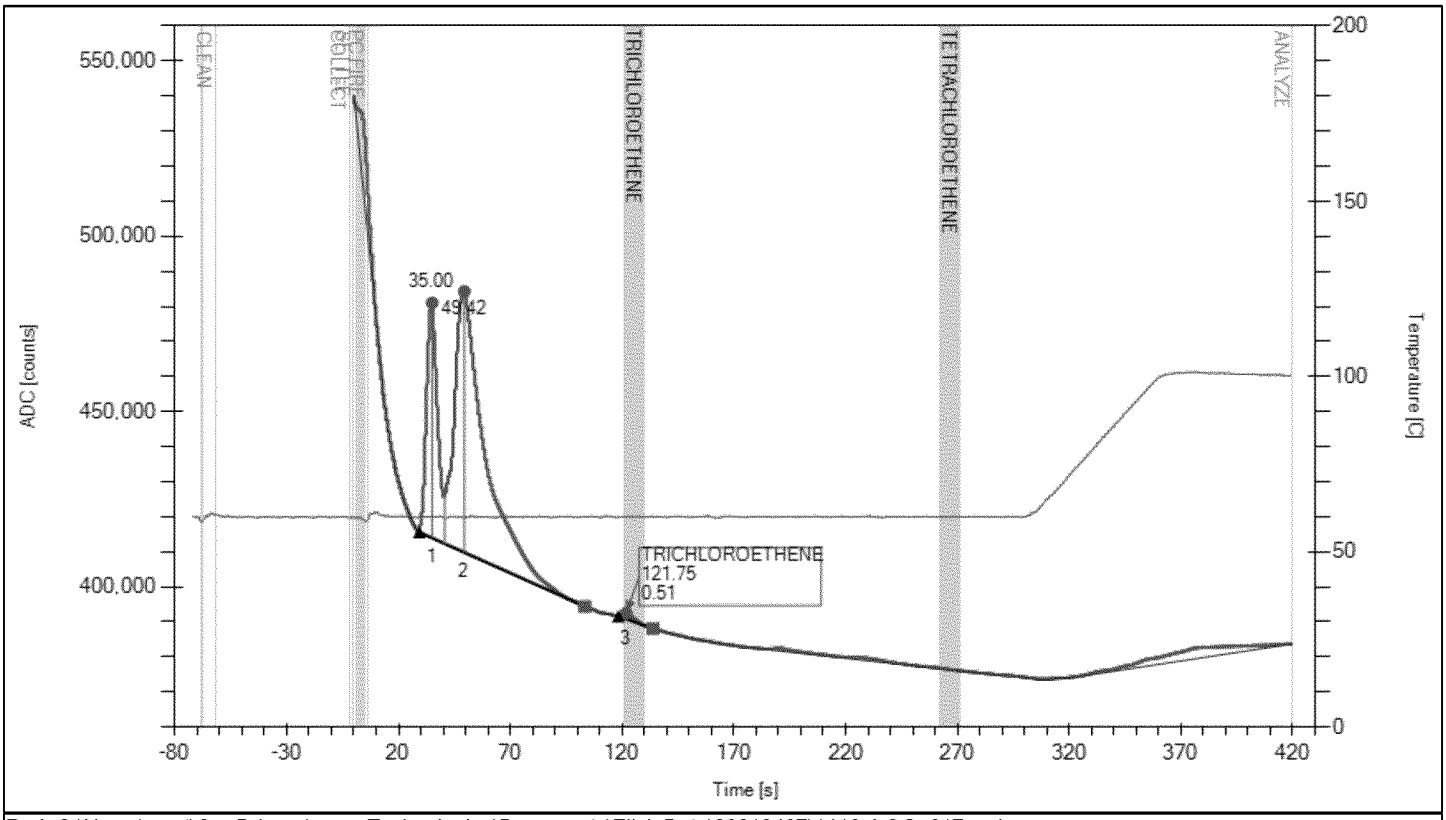
Pump=80%, 76%
Dilution = 1.0
D:\00000000\LOG_613.LOG

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35	67082	376942		
2		49.42	74478	1179640		
3	TRICHLOROETHENE	121.75	1676	11107	0.51	0.51



Red: C:\Users\want\OneDrive - Locus Technologies\Documents\EllvinData\20210407\1446_LOG_617.xml

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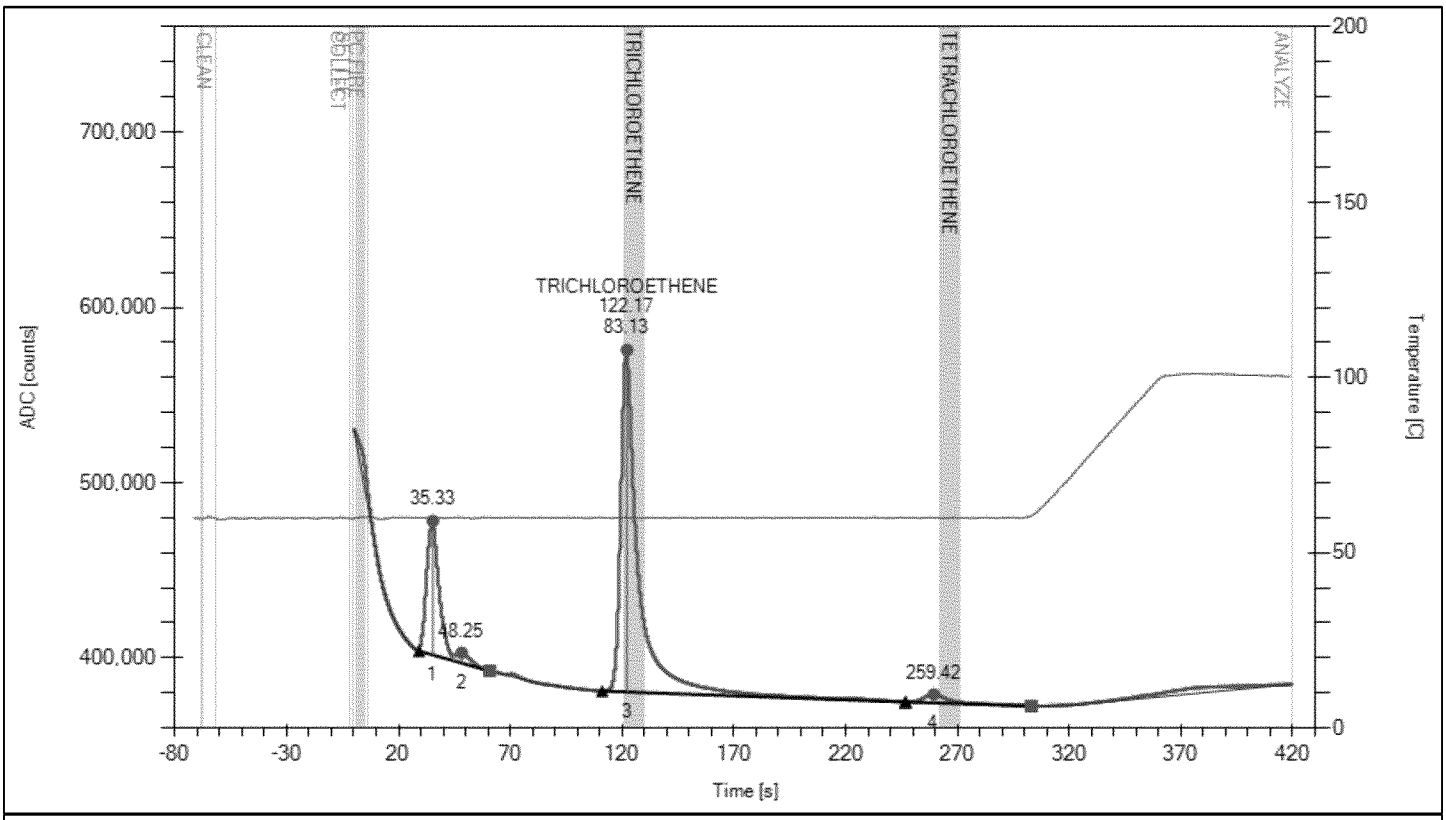
Pump=80%,77%
Dilution = 1.0
D:\00000000\LOG_624.LOG

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.33	76434	488976		
2		48.25	5863	45367		
3	TRICHLOROETHENE	122.17	195173	1810520	83.13	83.13
4		259.42	4854	67402		



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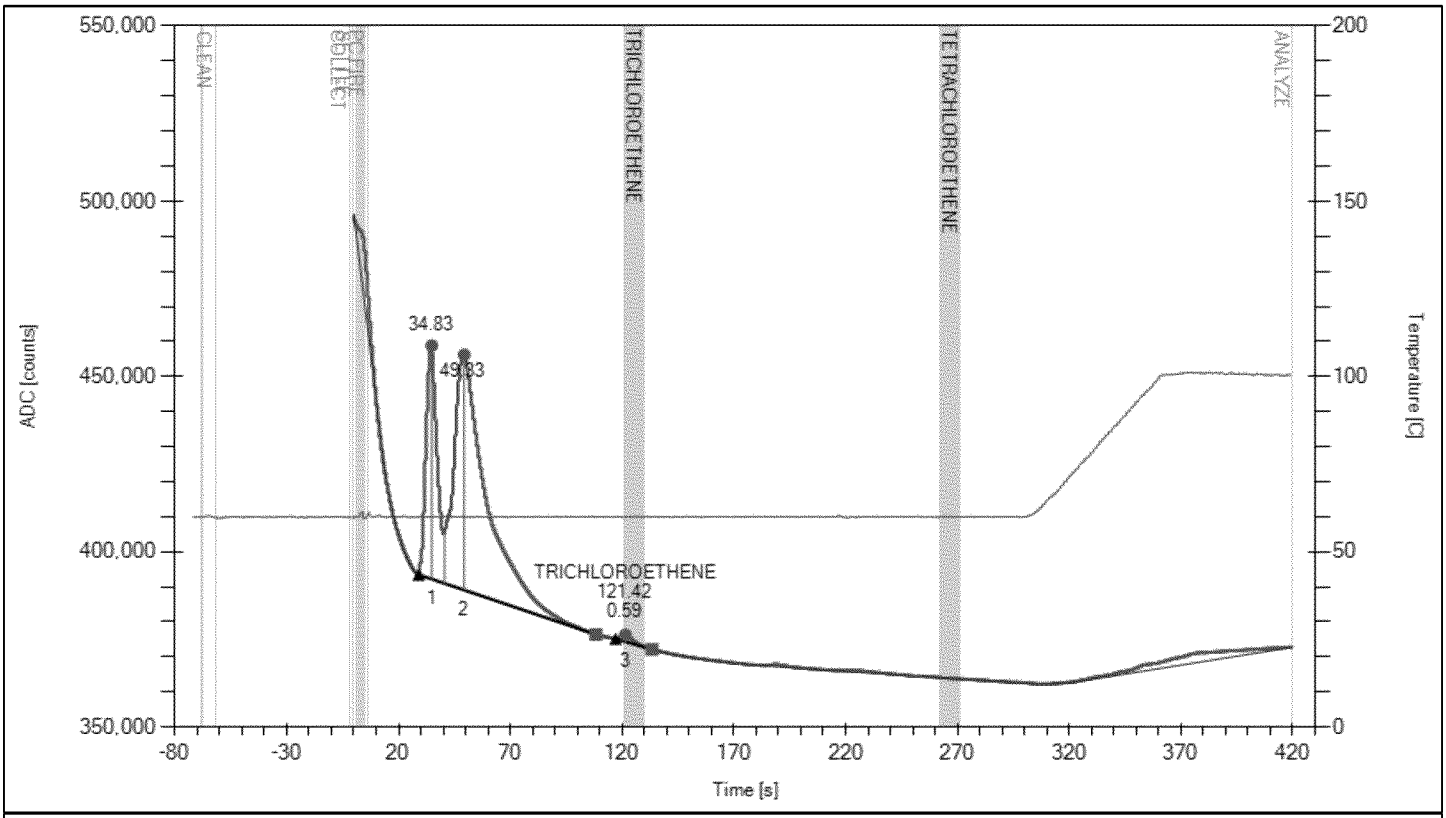
Pump=80%, 76%
Dilution = 1.0
D:\00000000\LOG_613.LOG

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.83	66608	380060		
2		49.33	67136	1138887		
3	TRICHLOROETHENE	121.42	1938	12819	0.59	0.59



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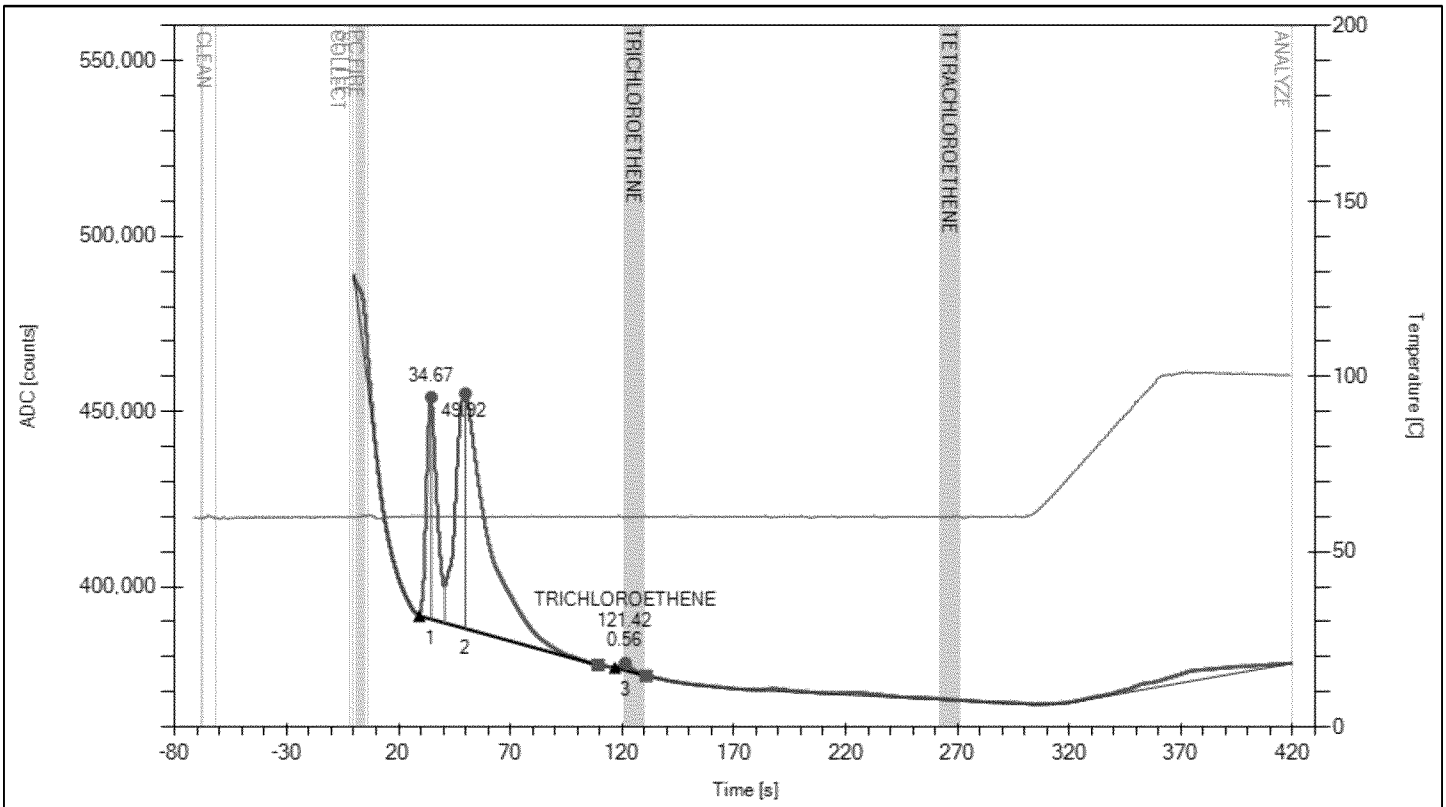
FROG-0113:Ta=300, Tb=60, Tc=60, Ct=60, Ht=100, collect=60, clean=6, presettle=4, settle=2, fire=6;
Pump=80%, 77%
Dilution = 1.0
D:\00000000\LOG_613.LOG

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	63345	342298		
2		49.92	67079	1127599		
3	TRICHLOROETHENE	121.42	2090	12130	0.56	0.56



Red: C:\Users\want\OneDrive - Locus Technologies\Documents\EllvinData\20210407\1529_LOG_621.xml

Appendix E
O&M Inspection Forms and Field Notes

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DAILY FIELD ACTIVITY LOG

Project Name: Philips - Arques - PNP
Field Activity: PNP Server Room Sampling
Weather: 62F Cloudy

Project No.: 2700508-9018
Date: 1/7/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
10:00	Arrive ON-SITE : Alan + Jeff
10:15	Start Sampling, gain access to basement
10:45	Finish Sampling
11:00	OFF-SITE

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Philips - Arques - PNP
Field Activity: PNP Server Room Sampling
Weather: 62F Partly Cloudy

Project No.: 2700508-9018
Date: 1/8/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
10:00	Arrive ON-SITE! Alan Tuan and Jeff Gunderson
10:10	Gain Access to server room and begin sample pickup
10:30	Finish Sample Pickups
10:40	OFF-SITE

Comments/Remarks:

MVII:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Philips - Arques
Field Activity: Planet Granite Resample
Weather: 69°F Clear Sunny

Project No.: 2700508-9018
Date: 1/14/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
11:30	Arrive ON-SITE w/ Jeff
11:32	Meet w/ Nick Gerrard of Planet Granite to gain access
11:33	Begin Sample Placements.
12:20	Finish Sample Placements
12:30	Check out w/ ~~Jeff and~~ Nick
12:35	OFF-SITE

Comments/Remarks:

M:\I:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Philips - Argyes
Field Activity: Planet Granite Resample
Weather: 65°F Sunny

Project No.: 2700503-9018
Date: 1/15/2021
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
11:35	Arrive ON-SITE w/ Jeff
11:36	Begin Sample Pickups (Met with Nick from PG to gain access)
12:25	Finish Sample Pickups
12:30	OFF-SITE

Comments/Remarks:

M\\I:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Triple Site

Field Activity: Outdoor air Sampling

Weather: Sunny

Project No.: ~~3D-13005~~ 2700508-9018

Date: 2-4-2021

Logged by: JG

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
0925	arrive at 811 Stewart Dr
0930	Start setting up samplers, starting with
	811-OUT-1-020421
1057	Wes arrives. Helps set up remaining
	Samplers
1120	Set up last sampler (PG-OUT-3-020421).
1125	Throw away trash.
1130	Depart Site

Comments/Remarks:

MVI \SAMPLING\DAILY FIELD LOG\2/15/2017

DAILY FIELD ACTIVITY LOG

Project Name: Triple Site

Field Activity: Outdoor air Sampling

Weather: Sunny

Project No.: 2700508-9018

Date: 2-5-2021

Logged by: JG

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
0930	Arrive on-site. Plan is to collect
	samples in the same order they were
	deployed. See COC for Order.
0935	Begin sample retrieval, starting with
	811-OUT-1-020421.
1125	Retrieve last sampler (PG-OUT-3-020421).
1130	Start Argnes C&M.
1200	Depart site.

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG\2/15/2017

Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Philips ~ Araves
Field Activity: PG Sample Placements
Weather: 60°F light rain/cloudy

Project No.: 2700508/9018
Date: 2/9/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
12:00	ON-SITE at Planet Granite. Meet w/ Madeline
12:05	Spoke w/ Nick Gerrard. Gained access to Planet Granite
12:10	Began Sampling Placements
12:55	Finished Sample Placements
7:00	OFF-SITE

Comments/Remarks:

MVII:\SAMPLING\DAILY FIELD LOG\2/15/2017

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Philips - Aqves
Field Activity: PG Sample Pickups + PNP sampling
Weather: 60°F Cloudy / Sunny

Project No.: 2709508/9018
Date: 2/10/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
12:10	Arrived ON-SITE at Planet Granite w/ Madeline. Gained access to PG
12:11	Began Sample Pickups
12:51	Finished Sample Pickups
~~12:00~~ 13:00	Arrived at Plug N Play. checked in at front desk to gain access (COVID Protocol)
13:09	Began Sample Placements
13:43	Conference room (PNPOFF-AMB-4) was under construction. Large holes have been punched in the walls, likely to make room for doors. Sample will be exposed to outdoor air.
14:30	Noticed painting near break room (PNPOFF-AMB-2)
15:00	Finished Sample placements and OFF-SITE

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Philips - Arques
Field Activity: PNP Sample Pickups
Weather: 62°F Sunny

Project No.: 2700508/9018
Date: 2/11/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
13:05	Arrived ON-SITE, meet up w/ Madeline
13:07	Checked in at PNP front office (COVID Protocol) Gained Access.
13:10	Began Sample Pickups
14:50	Finished Sample Pickups and OFF-SITE

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG\2/15/2017

Outdoor Air Evaluation – Onsite and Offsite Outdoor Air Sample Locations
Offsite, OOU Site, Signetics Site
9 February 2021

Site	Location Type	Building ID	Location ID	Field Duplicate or Blank?	Field Sample ID	Sample Location Street Number (Sunnyvale)	Sample Location Street Name (Sunnyvale)	Location Description	Sampling Team	Person/s Contacted for Access to Property	Photo taken? (Y/N)	Sample Deployed? (Y/N)	Sample Collected? (Y/N)	Weather? (Y/N)	Wet DB? (Y/N)
[redacted]															
Signetics	ONSITE OUTDOOR AIR	Lowe's	811-OUT-1		811-OUT-1-020921	811	E Arques Ave	S end parking lot	B C	Karen Clayton and Chad Dewayne	Y	Y	Y	Y	N
Signetics	ONSITE OUTDOOR AIR	Lowe's	811-OUT-2		811-OUT-2-020921	811	E Arques Ave	E end parking lot	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Lowe's	811-OUT-3		811-OUT-3-020921	811	E Arques Ave	behind bldg to NE	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Lowe's	813-OUT-9		813-OUT-9-020921	811	E Arques Ave	Mound	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Plug and Play	813-OUT-1		813-OUT-1-020921	440	N Wolfe Rd	Parking lot	C	Jessica Vargas				N	N
Signetics	ONSITE OUTDOOR AIR	Plug and Play	813-OUT-2		813-OUT-2-020921	440	N Wolfe Rd	tree in parking lot	C					N	N

Dup = 813-OUT-2
813-OUT-4

Outdoor Air Evaluation – Onsite and Offsite Outdoor Air Sample Locations
Offsite, OOU Site, Signetics Site
9 February 2021

Site	Location Type	Building ID	Location ID	Field Duplicate or Blank?	Field Sample ID	Sample Location Street Number (Sunnyvale)	Sample Location Street Name (Sunnyvale)	Location Description	Sampling Team	Person/s Contacted for Access to Property	Photo taken? (Y/N)	Sample Deployed? (Y/N)	Sample Collected? (Y/N)	Sheltered? (Y/N)	DB net? (Y/N)
Signetics	ONSITE OUTDOOR AIR	Plug and Play	813-OUT-2	FD	813-OUT-2-D-020921	440	N Wolfe Rd	tree in parking lot	C		Y	Y	Y	N	N
Signetics	ONSITE OUTDOOR AIR	Plug and Play	PNPOFF-OUT-1		PNPOFF-OUT-1-020921	440	N Wolfe Rd	Outside (main entry)	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Plug and Play	PNPOFF-OUT-2		PNPOFF-OUT-2-020921	440	N Wolfe Rd	S of building and parking	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	813-OUT-4		813-OUT-4-020921	815	Stewart Dr	tree east of TS	C	Nick Gerrard				Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	813-OUT-4	FD	813-OUT-4-D-020921	815	Stewart Dr	tree east of TS	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	813-OUT-5		813-OUT-5-020921	815	Stewart Dr	tree SE of TS	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	813-OUT-6		813-OUT-6-020921	815	Stewart Dr	SW corner of building	C			N*		Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	813-OUT-7		813-OUT-7-020921	815	Stewart Dr	W of building	C			Y		Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	PG-OUT-1		PG-OUT-1-020921	815	Stewart Dr	North of Building	C					N	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	PG-OUT-2		PG-OUT-2-020921	815	Stewart Dr	South of Building	C					Y	N
Signetics	ONSITE OUTDOOR AIR	Planet Granite	PG-OUT-3		PG-OUT-3-020921	815	Stewart Dr	E of Blddg	C					Y	N
BLANK	Field Blanks			FB	Group-C-999-1-020921				C					–	–

[redacted]

\\mvfile.enthia.com\Projects\Projects\P\Philips\OOU\Indoor Air\Outdoor Air Evaluation\2021-02-09 Outdoor Air Locations_Maps\Outdoor Air Eval - Sample Location Field Form 2021-02-09

* Photo taken on day of collection (2-10-21)

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Triple Site

Field Activity: Outdoor air Sampling

Weather: Cloudy

Project No.: 27005-9018

Date: 2-9-21

Logged by: JG

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
0900	Arrive on-site at 811 Stewart.
0905	Set up first sampler at 811-OUT-1-020921.
1000	Wes arrives to check in. Indicate I'm doing well.
1030	Set up last sampler at PG-OUT-3-020921.
1035	Throw away trash.
1040	Depart site.

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG\2/15/2017

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Triple Site

Field Activity: Outdoor Air Sampling

Weather: Sunny

Project No.: 27005-9018

Date: 2-10-21

Logged by: JG

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
0905	Arrive on-site at 811 Stewart
0910	collect first sampler at 811-OUT-1-020921.
1020	Collect ~~PG~~ 813-OUT-020921 and take sample placement photo, since I forgot to on 2-9-21.
1030	Collect last sampler at PG-OUT-3-020921.
1035	Throw away trash
1040	Depart site.

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Phillips - Argues
Field Activity: Vent Stack Sampling
Weather: 69°F Sunny

Project No.: 2700508/9018
Date: 2/24/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
12:00	Arrive ON-SITE @ Planet Granite w/ Jeff + Athena
	- check in w/ Nick Gerrard
12:20	Gain Access to roof and begin sampling. ~~PG~~-MOON-STACK
12:40	Start Sampling PG-Closet-STACK
14:00	Start Sampling PG-CENTER-STACK
14:10	Start Sampling PG-EAST-STACK
15:20	Start Sampling PG-WEST-STACK
	2 Summas were found defective, less than -20 inHg ~~when~~ at initial pressure
	Alan went to office to pick up another Summa
16:50	Finished Sampling and OFF-SITE
17:00	Returned to office

Comments/Remarks:

Field Form for Vent Stack Sampling
Triple Site Outdoor Air Evaluation
Last Revised: 19 February 2021

Project Name/Number: Triple Site
Triple Site RES/Building: Planet Granite
Stack I.D.: PG - WEST

Date/Time: 2-24-21 / 1513
Technician/s: AB / JG / AT

Field Instrument Information / Field Measurements

	Instrument 1	Instrument 2	Instrument 3
Manufacturer:	Testo	Testo	
Model:	405i	605i	
Serial Number:			
Certification/Calibration Date:			

NOTE: Use sample port/s installed per EPA Method 1 for field measurements and sample collection.

NOTE: All field measurements and sampling is to be conducted downstream of (above) the fan and at established Port locations. Some exceptions apply, as discussed with EPA in

Port ID	Stack Diameter (in)	Probe/tube insertion depth into pipe (in / mm / cm circle one)	Temperature (C or F) (°C)	% Relative Humidity	Velocity readings generally stabilized prior to logging velocity? (Y/N)	Velocity Measurements (fpm): Tabular data successfully received to email from field instrument? (Y/N)	Flow Rate (CFM) [to be calculated after-the-fact]	Gauge Pressure (inches H2O)	Time
PG-WEST	3	~1.5	19.8	57.6	Y	Y		-4	1520

Summa Canister

Field Sample ID	Summa Canister I.D.	Summa Flow Regulator I.D.	Initial Vacuum (≥ 28" Hg)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Final Vacuum (5-8" Hg)	Comments
* ~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~				
* ~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		~~[illegible]~~					
PG-WEST-022421	6L1520	24216	-28.5	022421	~~1640~~ 1614	1647	~33	-7	

Tedlar Bag

Field Sample ID	Tedlar Bag Volume (L)	Pump Manufacturer	Pump Model/Serial Number	Flow Rate (ccm)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Comments
PG-WEST-022421-TED	1	GILIAN	GILAIR	1000	2/24/21	1513	1531	~1	

* Summa Canisters not properly passivated → initial Vacuum too low

Field Form for Vent Stack Sampling
Triple Site Outdoor Air Evaluation
Last Revised: 19 February 2021

Project Name/Number: Triple Site

Triple Site RES/Building: Planet Granite

Stack I.D.: PG-EAST

Date/Time: 2-24-21 / 1406

Technician/s: JG

Field Instrument Information / Field Measurements

	Instrument 1	Instrument 2	Instrument 3
Manufacturer:	Testo	Testo	
Model:	405i	605i	
Serial Number:			
Certification/Calibration Date:			

NOTE: Use sample port/s installed per EPA Method 1 for field measurements and sample collection.

NOTE: All field measurements and sampling is to be conducted downstream of (above) the fan and at established Port locations. Some exceptions apply, as discussed with EPA in

Port ID	Stack Diameter (in)	Probe/tube insertion depth into pipe (in / mm / cm circle one)	Temperature (C or F) (°C)	% Relative Humidity	Velocity readings generally stabilized prior to logging velocity? (Y/N)	Velocity Measurements (fpm): Tabular data successfully received to email from field instrument? (Y/N)	Flow Rate (CFM) [to be calculated after-the-fact]	Gauge Pressure (inches H2O)	Time
PGEAST	3	~1.5	18.0	62.9	Y	Y		-4	1410

Summa Canister

Field Sample ID	Summa Canister I.D.	Summa Flow Regulator I.D.	Initial Vacuum (≥ 28" Hg)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Final Vacuum (5-8" Hg)	Comments
PG-EAST-022421	6L1111	24254	-27	2-24-21	1431	1503	~32	-6	

Tedlar Bag

Field Sample ID	Tedlar Bag Volume (L)	Pump Manufacturer	Pump Model/Serial Number	Flow Rate (ccm)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Comments
PG-EAST-TED-022421	1	Gilian	GilAir +	1000	2-24-21	1426	1427	~1	

Field Form for Vent Stack Sampling
Triple Site Outdoor Air Evaluation
Last Revised: 19 February 2021

Project Name/Number: Triple Site
Triple Site RES/Building: Planet Granite
Stack I.D.: PG-CENTER

Date/Time: 2-24-21 / 1349
Technician/s: AB / JG / AT

Field Instrument Information / Field Measurements

	Instrument 1	Instrument 2	Instrument 3
Manufacturer:	Testo	Testo	
Model:	605i	405i	
Serial Number:			
Certification/Calibration Date:			

NOTE: Use sample port/s installed per EPA Method 1 for field measurements and sample collection.

NOTE: All field measurements and sampling is to be conducted downstream of (above) the fan and at established Port locations. Some exceptions apply, as discussed with EPA in

Port ID	Stack Diameter (in)	Probe/tube insertion depth into pipe (in / mm / cm circle one)	Temperature (C or F) (°C)	% Relative Humidity	Velocity readings generally stabilized prior to logging velocity? (Y/N)	Velocity Measurements (fpm): Tabular data successfully received to email from field instrument? (Y/N)	Flow Rate (CFM) [to be calculated after-the-fact]	Gauge Pressure (inches H2O)	Time
PG-CENTER	3	21.5	18.5	43.1				-4	1400

Summa Canister

Field Sample ID	Summa Canister I.D.	Summa Flow Regulator I.D.	Initial Vacuum (≥ 28" Hg)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Final Vacuum (5-8" Hg)	Comments
PG-CENTER-STACK-022421	1260	23920	27	2/24/21	2:18	2:53	35	-6"	

Tedlar Bag

Field Sample ID	Tedlar Bag Volume (L)	Pump Manufacturer	Pump Model/Serial Number	Flow Rate (ccm)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Comments
PG-CENTER-TB-022421	1	GILIAN	GILAIR	1000	2/24/21	2:08	2:09	~1	

Field Form for Vent Stack Sampling
Triple Site Outdoor Air Evaluation
Last Revised: 19 February 2021

Project Name/Number: 27006-9018
Triple Site RES/Building: Planet Granite
Stack I.D.: PG-MOON

Date/Time: 2-24-2021 / 1017
Technician/s: AT / JG / AB

Field Instrument Information / Field Measurements

	Instrument 1	Instrument 2	Instrument 3
Manufacturer:	Testo	Testo	
Model:	405i	605i	
Serial Number:			
Certification/Calibration Date:			

NOTE: Use sample port/s installed per EPA Method 1 for field measurements and sample collection.

NOTE: All field measurements and sampling is to be conducted downstream of (above) the fan and at established Port locations. Some exceptions apply, as discussed with EPA in

Port ID	Stack Diameter (in)	Probe/tube insertion depth into pipe (in / mm / cm circle one)	Temperature (C or F) (°C)	% Relative Humidity	Velocity readings generally stabilized prior to logging velocity? (Y/N)	Velocity Measurements (fpm): Tabular data successfully received to email from field instrument? (Y/N)	Flow Rate (CFM) (to be calculated after-the-fact)	Gauge Pressure (inches H2O)	Time
PG-MOON	3	~1.5	22.9	51.5	Y	Y		-3.4	1225

Summa Canister

Field Sample ID	Summa Canister I.D.	Summa Flow Regulator I.D.	Initial Vacuum (≥ 28" Hg)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Final Vacuum (5-8" Hg)	Comments
PG-MOON-012421	6L0117	2333	28	2/24/21	1249	1224	35	-7"	

Tedlar Bag

Field Sample ID	Tedlar Bag Volume (L)	Pump Manufacturer	Pump Model/Serial Number	Flow Rate (ccm)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Comments
PG-MOON-TB-012421	1	Gilian	GilAir+	1000	2-24-21	1239	1240	~1	

Field Form for Vent Stack Sampling
Triple Site Outdoor Air Evaluation
Last Revised: 19 February 2021

Project Name/Number: Triple Site
Triple Site RES/Building: Planet Granite
Stack I.D.: PG - CLOSET

Date/Time: 2-24-21 / 1237
Technician/s: JG / AB

Field Instrument Information / Field Measurements

	Instrument 1	Instrument 2	Instrument 3
Manufacturer:	Testo	Testo	
Model:	405i	605i	
Serial Number:			
Certification/Calibration Date:			

NOTE: Use sample port/s installed per EPA Method 1 for field measurements and sample collection.

NOTE: All field measurements and sampling is to be conducted downstream of (above) the fan and at established Port locations. Some exceptions apply, as discussed with EPA in

Port ID	Stack Diameter (in)	Probe/tube insertion depth into pipe (in / mm / cm circle one)	Temperature (C or F) (°C)	% Relative Humidity	Velocity readings generally stabilized prior to logging velocity? (Y/N)	Velocity Measurements (fpm): Tabular data successfully received to email from field instrument? (Y/N)	Flow Rate (CFM) (to be calculated after-the-fact)	Gauge Pressure (inches H2O)	Time
PG-CLOSET	3	~21.5	17.8	60.3	Y	Y		-3.9	1240

Summa Canister

Field Sample ID	Summa Canister I.D.	Summa Flow Regulator I.D.	Initial Vacuum (≥ 28" Hg)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Final Vacuum (5-8" Hg)	Comments
PG-CLOSET-022421	9208	23250	-27	2-24-21	1301	1340	~39	-5	

Tedlar Bag

Field Sample ID	Tedlar Bag Volume (L)	Pump Manufacturer	Pump Model/Serial Number	Flow Rate (ccm)	Sample Date (mmddyy)	Start Time	End Time	Sample Duration (minutes)	Comments
PG-~~TED~~ CLOSET-022421	1	Gilian	GilAir+	1000	2-24-21	1257	1258	~1	

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: ARQUES / SIGNETICS

Field Activity: GAC INFLUENT/EFFLUENT SAMPLING

Weather: RAINY, CLOUDY

Project No.: 2700508-9016

Date: 3/10/2021

Logged by: NICOLE LOOK

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
1255	ARRIVE ONSITE
1300	MEET ATHENA BOLIN AND CHECK-IN AT FRONT DESK
1310	BEGIN SAMPLING, SETTING AIR SAMPLERS
1350	OFFSITE

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Project Name: ARQUES/SIGNETICS

Field Activity: GAC PURIFIER INFLUENT/EFFLUENT SAMPLING

Weather: OVERCAST, RAINY

Project No.: 2700508-9016

Date: 3/11/2021

Logged by: NICOLE LOOK

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
1255	ARRIVED ONSITE
1300	MEET ATHENA AND CHECKED-IN AT FRONT DESK
1305	ESCORTED IN TO SERVER ROOM.
	BEGAN COLLECTING AIR SAMPLERS
	OBSERVED NOTHING UNUSUAL
	AIR PURIFIER IN GOOD RUNNING ORDER.
1345	OFFSITE

Comments/Remarks:

eurofins | Air Toxics

Passive Sorbent Chain of Custody

WO#:

Case Seal #:

Company: LOCUS TECHNOLOGIES Project #: 2700508-906 P.O.# 30-13005

Project Manager: AFRICA ESPINA Project Name: PHILIPS-ARQUES

Contact phone/email: gazuna@locustec.com Collected by: NICOLE COOK / ATHENA BOLIN

Sample Matrix (check one): Indoor/Outdoor Air, Soil Gas, Workplace Monitoring, Other( )

Reporting Units (circle): ppbv, ug/m3, ppmv, mg/m3, ug, ng

Turn Around Time: ☒ Normal ☐ Rush Specify

Lab ID	Sample Identification	Sampler ID	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	Other( )	Analysis Requested	Sample Comments:
	PNPBAS-GAC-1-031021	CU937	03/10/21	13:20	03/11/21	13:10	X				TO-17	4.2°C
	PNPBAS-GAC-2-031021	CU938	↓	13:24	03/11/21	13:13	X				↓	6.6°C
	PNPBAS-PATH-4-031021	CU939	↓	13:31	03/11/21	13:16	X				↓	11.8°C
	PNPBAS-PATH-4-D-031021	CU940	↓	13:31	03/11/21	13:16	X				↓	11.8°C
	PNPBAS-OUT-1-031021	CU941	↓	13:40	03/11/21	13:33	X				↓	8.8°C
	PNPBAS-999-031021	CU942	↓	00:00	03/11/21	00:00	X				↓	

Relinquished by:	Date	Time	Received by:	Date	Time	Notes to Lab:
[signature]	03/11/2021	14:30				
Relinquished by:	Date	Time	Received by:	Date	Time	

Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples.

Lab Use Only

Shipper Name:	Custody Seals Intact?	Yes	No	None	Sample Condition Upon Receipt: (circle)	Good	SDR
Air bill #:	Temperature (°C)						

Eurofins Air Toxics, Inc. 180 Blue Ravine Rd. Suite B Folsom, CA 95630 (916) 985-1000 Fax: (916) 351-8279

ED_013761_00000249-00589

Figure 1 GAC Air Purifier System

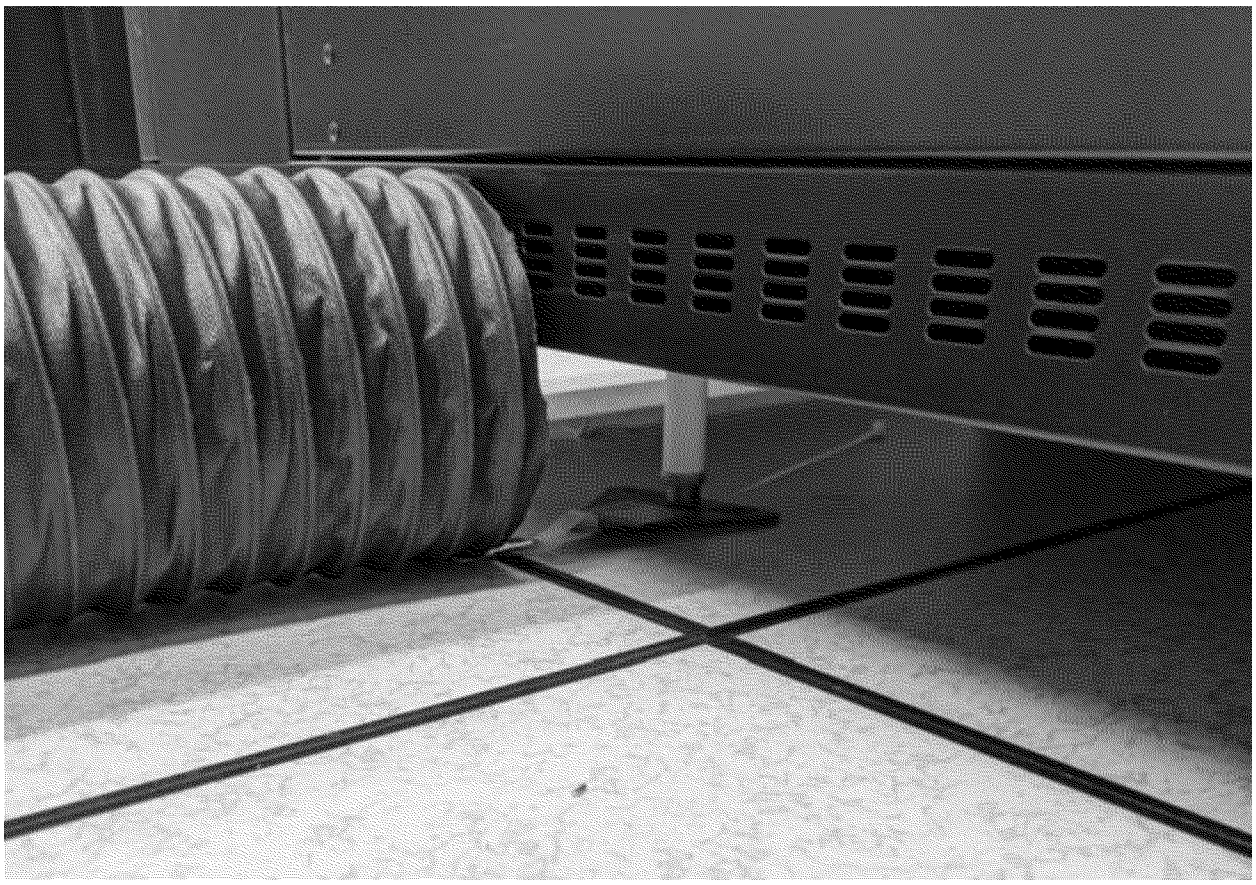

Figure 2 PNPBAS-GAC-1 location

Figure 3 PNPBAS-GAC-2 location

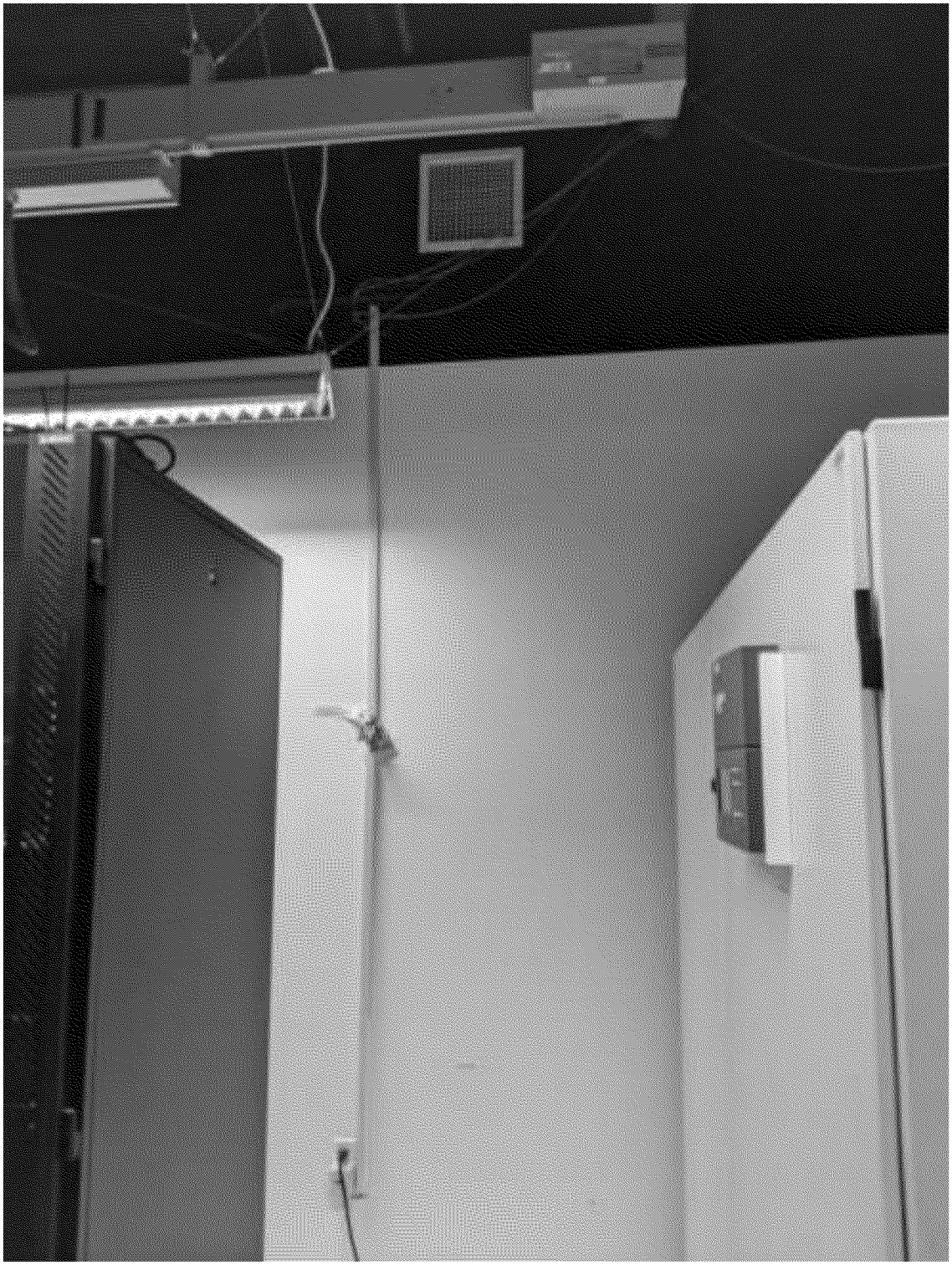

Figure 4 PNPBAS-PATH-4 location

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: ARQUES / SIGNETICS

Field Activity: INDOOR AIR CONFIRMATION SAMPLING

Weather: SUNNY

Project No.: 2200508-9018

Date: 3/24/21 - 3/25/21

Logged by: NICOLE LOOK

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
3/24/21	
1300	ONSITE AT 440 WOLFE, CHECKED IN FOR TEMP CHECK WITH ALAN TUAN
	LET INTO BASEMENT TO SAMPLE:
	PNPBAS-AMB-5
	PNPBAS-OUT-1
1320	OFFSITE
3/25/21	
1300	ONSITE
1302	CHECKED IN, LET INTO BASEMENT
1306	MET WITH JOE (IT) WHILE COLLECTING AMB-5 AIR SAMPLES
	SELLING GYM EQUIPMENT, LEAVING IN A WEEK
1320	OFFSITE

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG\2/15/2017

LOCUS TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Signetics Monthly Sampling

Field Activity:

Weather: Sunny 65°F

Project No.: 270058

Date: April 7, 2021

Logged by: Tina Wan

Page: 1 of 3

TIME	DAILY ACTIVITIES AND EVENTS
12:00	Arrived at 440 Wolfe, met with Africa and Wes, gained access to PNP basement.
12:507	~~GAC-1~~ Set passive and Summa. Initial Summa pressure - 30, at PNPBAS-GAC-1
13:00	Set passive and Summa at PNPBAS-GAC-2. Initial Summa pressure - 28.5
13:03	Set passive and Summa at PNPBAS-PATH-4. Initial Summa pressure - 30
13:06	Set passive at PNPBAS-AMB-1 and PNPBAS-AMB-1-D
13:12	Set passive at PNPBAS-PATH-OUT-1
13:25	Ran blank through FROG
13:40	Sampled PNPBAS-AMB-1 W/FROG LOG #612 < 5 µg/m³
13:55	Sampled PNPBAS-PATH-4 W/FROG LOG #613 < 5 µg/m³
14:03	GAC-1 - 28.5 inHg SUMMA ~~PRESSURE~~ CHECK
	GAC-2 - 28 " FLOW CONTROLLER
	GAC-3 - 29 "
14:15	Sampled new location PNPBAS-PATH-6 @ SE LOG #614
	CORNER OF SERVER ROOM, UNDER AHU-4 UNIT < 5 µg/m³

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather: Sunny 68°C

Project No.: 270C508
Date: 4/7/21
Logged by: AE
Page: 2 of 3

TIME	DAILY ACTIVITIES AND EVENTS	
14:26	Sampled using FROG new location PNPBAS-PATH-7 @ SW	LOG #615
	CORNER OF SERVER ROOM, NEAR FU#2	<5 ug/m³ (ND)
	~~w/FROG~~	
14:35	Sampled new location PNPBAS-PATH-8 @ NW	LOG #616
	corner of server room, near R1-22	0.48 ppb (~2.5 ug/m³
14:46	Sampled new location PNPBAS-PATH-9 @ NE	LOG #617
	corner of server room, near RMU 9	0.51 ppb (~2.5 ug/m³)
14:57	Sampled existing location PNPBAS GAC-2 @ NE	LOG #618
	corner of server room, @ drum effluent	ND (<5 ug/m³)
15:05	GAC-1 -27.5 in Hg SUMMA PRESSURE CHECK	
	GAC-2 -28.0 "	
	~~GAC-3~~ -28.5 "	
	PATH-4	
15:09	Sampled using FROG existing location PNPBAS-GAC-1 @ NE	LOG #619
	corner of server room, @ drum effluent	0.52 ppb
15:14	Sampled new location PNPBAS-SRC-1	LOG #620
	middle of the server room @ R2-10	0.59 ppb
15:24	Sampled new location PNPBAS-SRC-2 using FROG	LOG #621
	near AMB-1 + cage @ R5-6	0.56 ppb
15:38	Sampled new ambient location PNPBAS-AMB-7 using FROG	LOG #622
	near cage	ND

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather:

Project No.: 2700508
Date: 4/7/21
Logged by: A.E.
Page: 3 of 3

TIME	DAILY ACTIVITIES AND EVENTS	
15:48	SAMPLED NEW PATHWAY LOCATION PNP BAS-PATH-10	LOG # 623
	NORTH SIDE OF SERVER ROOM + IN THE CENTER	
	OF THE WALL WHERE PIPE ENTERS	ND
15:58	SAMPLED NEW PATHWAY LOCATION PNP BAS-PATH-11	LOG # 624
	NORTH SIDE OF SERVER ROOM + NEAR THE CENTER	
	OF THE WALL NEAR PNPBAS-PATH-10 +	83 ppb
	WITHIN THE DRAIN COVER	
16:03	GAC-1 -27.0 in Hg SUMMA ~~PRESSURE~~ CHECK	
	GAC-2 -27.5 in Hg FLOW CONTROLLER	
	PATH-4 -27.5 "	
16:20	OFFSITE	

Comments/Remarks:
RETURN TOMORROW @ 10 AM

MV\I:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather: Sunny 67°F

Project No.: 2700308 AE
Date: ~~[illegible]~~ 4/18/21
Logged by: A.E
Page: 1 of 2

TIME	DAILY ACTIVITIES AND EVENTS
10:10	Arrive on-site - Tina, Wes, Africa
10:13	GAC-1 - 5.5 inHg SUMMA ~~PRESSURE~~ CHECK GAC-2 - 8.0 inHg FLOW CONTROLLER PATH-4 - 9.0 inHg
10:18	Ran blank on FROG gear PNPBAS-OUT-1
10:37	GAC-1 - 5.0 inHg CLOSE SUMMA PASSIVE RADIELLO PICK-UP ~~GAC~~ PNPBAS-GAC-1
10:44	FINAL PRESSURE CHECK GAC-1 = -7.0 inHg
10:47	SAMPLED NEW PATHWAY LOCATION PNPBAS-PATH-12 WITH FROG LOG H630 NORTHSIDE OF SERVER ROOM, WITHIN FLOOR DRAIN ND
10:58	SAMPLED NEW PATHWAY LOCATION PNPBAS-PATH-13 LOG H31 WESTSIDE OF SERVER ROOM, WITHIN FIRE HATCH ND
11:20	GAC-2 - 7.0 inHg SUMMA FLOW CONTROLLER CHECK PATH-4 - 8.0 inHg
12:01	GAC-2 - 6.5 inHg Summa Flow Controller Check PATH-4 - 7.5 inHg
12:56	GAC-2 - 5.5 inHg CLOSE SUMMA PASSIVE RADIELLO PICK-UP PNPBAS-GAC-2

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather: Sunny 67°F

Project No.: 2700508
Date: 4/8/21
Logged by: AG
Page: 2 of 2

TIME	DAILY ACTIVITIES AND EVENTS
13:02	PATH-4 6 inHg
	CLOSE SUMMA
	PASSIVE RADIELL PICK-UP PNPBAS-PATH-4
13:09	PICK UP PNPBAS-AMB-1 and duplicate
13:27	GRAB SUMMA CANISTER SAMPLE @ PNPBAS-PATH-1)
13:47	PICK UP PNPBAS-OUT-1
13:50	LEAVE SITE

Comments/Remarks:
NO ADDITIONAL PATHWAYS NOTED OUTSIDE PERIMETER

LOCUS TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Signetics Monthly Sampling

Field Activity:

Weather: Sunny 65°F

Project No.: 270058

Date: April 7, 2021

Logged by: Tina Wan

Page: 1 of 3

TIME	DAILY ACTIVITIES AND EVENTS
12:00	Arrived at 440 Wolfe, met with Africa and Wes, gained access to PNP basement.
12:507	~~GAC-1~~ Set passive and Summa. Initial Summa pressure - 30, at PNPBAS-GAC-1
13:00	Set passive and Summa at PNPBAS-GAC-2. Initial Summa pressure - 28.5
13:03	Set passive and Summa at PNPBAS-PATH-4. Initial Summa pressure - 30
13:06	Set passive at PNPBAS-AMB-1 and PNPBAS-AMB-1-D
13:12	Set passive at PNPBAS-PATH-OUT-1
13:25	Ran blank through FROG
13:40	Sampled PNPBAS-AMB-1 W/FROG LOG #612 < 5 µg/m³
13:55	Sampled PNPBAS-PATH-4 W/FROG LOG #613 < 5 µg/m³
14:03	GAC-1 - 28.5 inHg SUMMA ~~PRESSURE~~ CHECK
	GAC-2 - 28 " FLOW CONTROLLER
	GAC-3 - 29 "
14:15	Sampled new location PNPBAS-PATH-6 @ SE LOG #614
	CORNER OF SERVER ROOM, UNDER AHU-4 UNIT < 5 µg/m³

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather: Sunny 68°F

Project No.: 270C508
Date: 4/7/21
Logged by: AE
Page: 2 of 3

TIME	DAILY ACTIVITIES AND EVENTS	
14:20	Sampled new location PNPBAS-PATH-7 @ SW	LOG #615
	CORNER OF SERVER ROOM, NEAR FU#2	<5 ug/m³ (ND)
14:35	Sampled new location PNPBAS-PATH-8 @ NW	LOG #616
	corner of server room, near RI-22	0.48 ppb (~2.5 ug/m³)
14:46	Sampled new location PNPBAS-PATH-9 @ NE	LOG #617
	corner of server room, near RMV 9	0.51 ppb (~2.5 ug/m³)
14:53	Sampled existing location PNPBAS-GAC-2 @ NE	LOG #618
	corner of server room, @ drum effluent	ND (<5 ug/m³)
15:05	GAC-1 -27.5 in Hg SUMMA PRESSURE CHECK	
	GAC-2 -28.0 "	
	~~GAC-3~~ -28.5 "	
	PATH-4	
15:09	Sampled existing location PNPBAS-GAC-1 @ NE	LOG #619
	corner of server room, @ drum effluent	0.52 ppb
15:14	Sampled new location PNPBAS-SRC-1	LOG #620
	middle of the server room @ RZ-10	0.59 ppb
15:24	Sampled new location PNPBAS-SRC-2	LOG #621
	near AMB-1 trayle @ RS-6	0.56 ppb
15:38	Sampled new ambient location PNPBAS-AMB-7	LOG #622
	near cage	ND

Comments/Remarks:

Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather:

Project No.: 2700508
Date: 4/7/21
Logged by: A.E.
Page: 3 of 3

TIME	DAILY ACTIVITIES AND EVENTS	
15:48	SAMPLED NEW PATHWAY LOCATION PNP BAS-PATH-10	LOG # 623
	NORTH SIDE OF SERVER ROOM + IN THE CENTER	
	OF THE WALL WHERE PIPE ENTERS	ND
15:58	SAMPLED NEW PATHWAY LOCATION PNP BAS-PATH-11	LOG # 624
	NORTH SIDE OF SERVER ROOM + NEAR THE CENTER	
	OF THE WALL NEAR PNPBAS-PATH-10 +	83 ppb
	WITHIN THE DRAIN COVER	
16:03	GAC-1 -27.0 in Hg SUMMA ~~PRESSURE~~ CHECK	
	GAC-2 -27.5 in Hg FLOW CONTROLLER	
	PATH-4 -27.5 "	
16:20	OFFSITE	

Comments/Remarks:
RETURN TOMORROW @ 10 AM

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Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather: Sunny 67°F

Project No.: 2700308.AE
Date: ~~[illegible]~~ 4/18/21
Logged by: A.E
Page: 1 of 2

TIME	DAILY ACTIVITIES AND EVENTS
10:10	Arrive on-site - Tina, Wes, Africa
10:13	GAC-1 - 5.5 inHg SUMMA ~~PRESSURE~~ CHECK GAC-2 - 8.0 inHg FLOW CONTROLLER PATH-4 - 9.0 inHg
10:18	Ran blank on FROG gear PNPBAS-OUT-1
10:37	GAC-1 - 5.0 in Hg CLOSE SUMMA PASSIVE RADIELLO PICK-UP ~~GAC~~ PNPBAS-GAC-1
10:44	FINAL PRESSURE CHECK GAC-1 = -7.0 inHg
10:47	SAMPLED NEW PATHWAY LOCATION PNPBAS-PATH-12 WITH FROG LOG H630 NORTHSIDE OF SERVER ROOM, WITHIN FLOOR DRAIN ND
10:58	SAMPLED NEW PATHWAY LOCATION PNPBAS-PATH-13 LOG H31 WESTSIDE OF SERVER ROOM, WITHIN FIRE HATCH ND
11:20	GAC-2 - 7.0 in Hg SUMMA FLOW CONTROLLER CHECK PATH-4 - 8.0 in Hg
12:01	GAC-2 - 6.5 in Hg Summa Flow Controller Check PATH-4 - 7.5 inHg
12:56	GAC-2 - 5.5 in Hg CLOSA SUMMA PASSIVE RADIELLO PICK-UP PNPBAS-GAC-2

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Project Name: Signetics 440 Wolfe Monthly Sampling
Field Activity: Indoor Air Sampling
Weather: Sunny 67°F

Project No.: 2700508
Date: 4/8/21
Logged by: AG
Page: 2 of 2

TIME	DAILY ACTIVITIES AND EVENTS
13:02	PATH-4 6 inHg
	CLOSE SUMMA
	PASSIVE RADIELL PICK-UP PNPBAS-PATH-4
13:09	PICK UP PNPBAS-AMB-1 and duplicate
13:27	GRAB SUMMA CANISTER SAMPLE @ PNPBAS-PATH-1)
13:47	PICK UP PNPBAS-OUT-1
13:50	LEAVE SITE

Comments/Remarks:
NO ADDITIONAL PATHWAYS NOTED OUTSIDE PERIMETER

DAILY FIELD ACTIVITY LOG

Project Name: SIGNETICS / ARQUES
Field Activity: CARBON DRUM SAMPLING
Weather: SUNNY

Project No.: 2700508
Date: 5/12/21
Logged by: NICOLE LOOK
Page: 1 of 2

TIME	DAILY ACTIVITIES AND EVENTS
10:30	LOAD EQUIPMENT AT OFFICE
10:50	ARRIVE AT 440 WOLFE, AFRICA ESPINA, TINA WAN PRESENT
	UNLOAD EQUIPMENT
	CHECK IN
11:15	ACCESSED SERVER ROOM
	SET UP SUMMAS
	MISSING VACCUM ~~GOA~~ GAUGE
1125	AFRICA OFFSITE
1140	AFRICA RETURNED WITH VACUUM GAUGE, MISSING RADIELLO SAMPLERS, RETURNED
12:25	Opened Summas at PNPBAS-GAC-1-051221 & Set passive Sampler
	Initial pressure reading: -28.5 in Hg
12:28	Opened Summas at PNPBAS-GAC-2-051221 & Set passive Sampler
	Initial pressure reading: -30+ in Hg
12:39	Opened Summas at ~~PA~~ PNPBAS-PATH-11-051221
	Initial pressure reading: -30 inHg
12:43	Set passive samplers at new location PNPBAS-AMB-8 on Fire Extinguisher
	sign at breathing height adjacent to PNPBAS-PATH-11
1:25	Summas reading:
	GAC-1 : -28" Hg
	GAC-2 : -30+" Hg
	PATH-11 : -29.5" Hg

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Project Name: SIGNETICS/ARCHES

Field Activity: CARBON DRUM SAMPLING

Weather: ~~SU~~ SUNNY

Project No.: 2700508

Date: 5/12/21

Logged by: NICOLE LOOK / TINA WAN

Page: 2 of 2

TIME	DAILY ACTIVITIES AND EVENTS
1:55	GAC-2 : 30" Hg Summa Vacuum
2:25	SUMMAS READING:
	GAC-1 : -27.5" Hg
	GAC-2 : -29.5" Hg
	PATH-11 : -29.0" Hg
2:58	Summas reading
	GAC-1 : -26.5 in Hg
	GAC-2 : -29 in Hg
	PATH-11 : -28 in Hg
3:25	Summas reading:
	GAC-1 : ~~-26.5 in Hg~~ -26.4 in Hg
	GAC-2 : -28.5 in Hg
	PATH-11 : -27.5 in Hg
	~~MJ~~
3:30	~~OFF~~ LEAVE DATA CENTER
3:35	CHECK OUT AT FRONT DESK
	TO RETURN TOMORROW AT 10AM.
3:40	OFFSITE

Comments/Remarks:

Locus TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: Signetics / Arques
Field Activity: Carbow Drum Sampling
Weather: Sunny

Project No.: 2700508
Date: 5/13/21
Logged by: Tina Wan
Page: 1 of 2

TIME	DAILY ACTIVITIES AND EVENTS
10:00	Arrived at PNP
10:09	Gained access to the server room
10:10	Summas reading: GAC-1 : -8.5 in Hg GAC-2 : -7.5 in Hg PATH-11 : -8 in Hg
11:00	Summas reading: GAC-1 : -7.5 in Hg GAC-2 : -7 in Hg PATH-11 : -7 in Hg
12:00	Summas reading: GAC-1 : -6.5 in Hg GAC-2 : -6.5 in Hg PATH-11 : -6.5 in Hg
12:25	Stopped Summas Canister Sampling at GAC-1 Retrieved passive sampler at GAC-1 ~~Flow~~ Summas reading = -6 in Hg on flow controller
12:28	Stopped Summas at GAC-2 GAC-2 reading on flow controller : -5.5 in Hg Retrieved passive sampler at GAC-2
12:39	Stopped Summas at PATH-11 PATH-11 reading on flow controller = -5 in Hg

Comments/Remarks:

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: SIGNETICS/ARQUES
Field Activity: CARBON DRUM SAMPLING
Weather: CLOUDY / SUNNY

Project No.: 2700508-9018
Date: 05/13/21
Logged by: NICOLE COOK
Page: 2 of 2

TIME	DAILY ACTIVITIES AND EVENTS
1245	SAMPLING CONCLUDED
1300	DAN DUCASSE ONSITE
	INVESTIGATION OF MANHOLE POTENTIAL PATHWAY AT LOCATION
	~~PNPGTAC~~ PNPBAS-PATH-11
	OPENING UTILITY COVER REQUIRED SOME CHISELING AROUND
	EDGES AND LEVERING FORCE. THE UTILITY APPEARS TO BE A
	CLEAN-OUT PORT. BARE EARTH OBSERVED IN WELL.
	SEE PHOTOS.
	NO SCREW TO SECURE UTILITY COVER CLOSED.
	COVER REPLACED IN PLACE
1330	DAN OFFSITE
1335	TINA OFFSITE
1340	PNP CART RETURNED, NICOLE OFFSITE

Comments/Remarks:

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FU#2
AHU-1
UNSEALED SEAM
CAGE
SERVER
SERVER
SERVER
SERVER
VENTED SERVER ROOM
TABLE
AHU-4
AHU-3
MEN
WOM

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: ARQUES / SIGNETICS
Field Activity: 440 WOLFE CONFIRMATION AIR SAMPLING
Weather:

Project No.: 2700508-9018
Date: 6/16/21
Logged by: NICOLE LOOK
Page: 1 of 3

TIME	DAILY ACTIVITIES AND EVENTS
11:00	ARRIVED ONSITE
11:07	CHECKED-IN AT FRONT DESK, GAINED ACCESS TO BASEMENT
11:15	SET UP SUMMA CANISTERS AT PNPBAS-PATH-11
	(DUP)
	INITIAL VAC: 27.5" Hg USING VAC GUAGE
11:42	DEPLOYED RADIELLO SAMPLERS
	SUMMAS INITIAL VAC: 26.5" Hg (PATH-11) 30" Hg (PATH-11-D)
	Flow CONTROLLERS
1200	GAINED ACCESS TO DATA CENTER w/ HONORIO
	POSSIBLE PATHWAY FOUND IN FRONT OF AHU-4
	4th TILE OPENED (SEE PHOTOS)
	GROUND WIRE FOR ELECTRICAL
	POSITIVE AIR FROM BENEATH FLOORING WHEN TILES ARE REMOVED
	Future PATH-13?
1230	FLOOR SURVEY COMPLETE
	DISCUSSION w/ AFRICA
1235	AFRICA OFFSITE
1245	SUMMA VAC: 26.5" Hg (PATH-11) 29.5" ~~30~~ 27 Hg (PATH-11-D)
1350	SUMMA VAC: 26.5" Hg (PATH-11) 29.0" Hg (DUP)
1415	SUMMA VAC 26.5" Hg (PATH-11) 29.0" Hg (DUP)

Comments/Remarks:

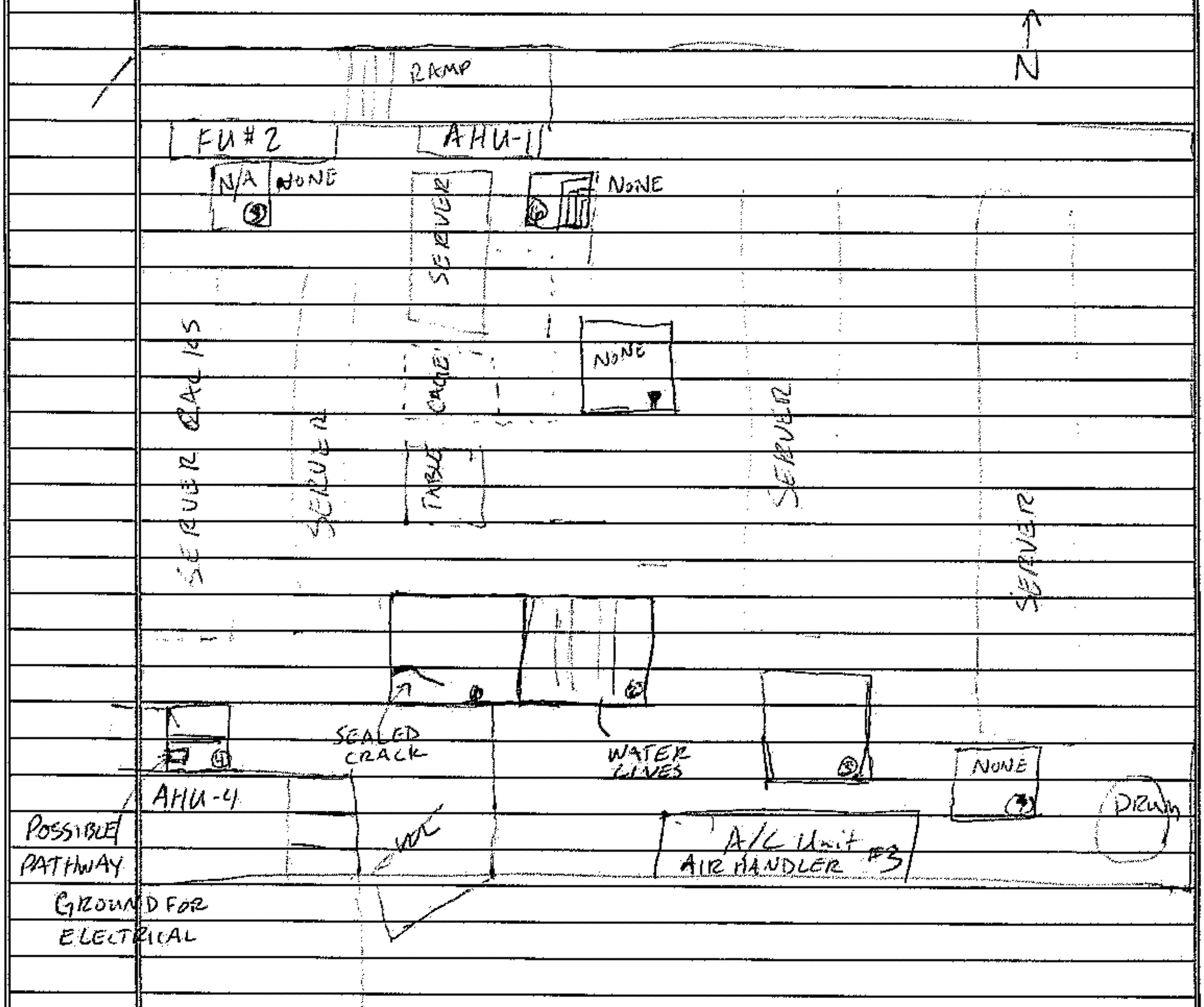
LOCUS TECHNOLOGIES

DAILY FIELD ACTIVITY LOG

Project Name: ARQUES/SIGNETICS
Field Activity: 440 WOLFE CONFIRMATION SAMPLING
Weather:

Project No.: 2706508-9018
Date: 6/14/21
Logged by: NICOLE Look
Page: 2 of 3

TIME	DAILY ACTIVITIES AND EVENTS



Comments/Remarks: Not To Scale

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DAILY FIELD ACTIVITY LOG

Project Name: ARQUES / SIGNETICS

Field Activity: 440 WOLFE CONFIRMATION SAMPLING

Weather:

Project No.: 2200508.9018

Date: 6/14/21

Logged by: NICOLE COOK

Page: 3 of 3

TIME	DAILY ACTIVITIES AND EVENTS
1430	SUMMA VAC 26.0" Hg (PATH-11) 28.5" Hg (DUP)
1445	OFFSITE

Comments/Remarks:

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DAILY FIELD ACTIVITY LOG

Project Name: ARQUES / SIGNETICS
Field Activity: 440 WOLFE AIR ~~SA~~ CONFIRMATION SAMPLING
Weather: SUNNY, WARM, 81°F

Project No.: 27005508-9018
Date: 6/17/21
Logged by: NICOLE LOOK
Page: 1 of 2

TIME	DAILY ACTIVITIES AND EVENTS
1000	ARRIVED ONSITE
1015	ACCESSED BASEMENT
1020	SUMMA VACUUM 9.0" Hg (PATH-11) 12.0" Hg (DUP)
	HONARIO AVAILABLE AT 1300 FOR ENTRY INTO DATA CENTER
1100	SUMMA VAC 8.5" Hg (PATH-11) 11.5" Hg (DUP)
1142	SUMMA VAC 7.5" Hg (PATH-11) 10.5" Hg DUP
1205	OFFSITE FOR SAMPLE & PREP AT OFFICE
1300	RETURN ONSITE
	4A
	DATA CENTER #4
	TILE #4
	NO CRACKS, ONLY E. GROUND
	ALL UTILITIES UNISTRUT GLUED/SEALED TO SLAB
	OPENED TILE NEXT TO IT
	SEALED - WHITE, INTACT
	TILE #1 6 tiles long
	SEALED CRACK
	LONG, LONGITUDINAL

Comments/Remarks: CRACK NEARBY
GLUE, PROB. NOT CRACK, FLAT TO SLAB

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name:

Field Activity:

Weather:

Project No.:

Date:

Logged by:

Page: 2 of 2

TIME	DAILY ACTIVITIES AND EVENTS
	RED TAPE
	TILE #6? 6?
	SEALED CRACK → N
	SEALANT RAISED
	NEW
	TILE #8? NW CORNER
	3 FT
	→ N
	@ TEMP ALARM TO IT
	NWALL
	TILE #10 UNSEALED
	SEAM BETWEEN SLABS
	CAGE FROM N WALL TO COLUMN
	SERVER
1345	OFF SITE

Comments/Remarks:

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DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Philips – ~~OOU~~ Arques

Field Activity: Planet Granite O&M

Weather: 55°F Cloudy

Project No.: 2700508/9018

Date: 12/15/21

Logged by: Alan Tuan

Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
13:00	Arrive ON-SITE. Meet w/ Fred + Casey.
13:03	Check-in @ Planet Granite front desk. Fred begins O&M
14:20	Begin Sample Placements
15:00	Finish Sample Placements
15:00	Fred Finishes O&M
15:10	Collect supplies and OFF-SITE
	*started drizzling as I left. ~~PG-OUT-2 sample may have gotten wet.~~ PG-OUT-1 should be protected in cubby.
	*PG-OUT-2 sample is under overhang, stayed dry

Comments/Remarks:

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Operations & Maintenance (O&M)

SSDS Mitigation System Performance Inspection Field Form

Inspector/Company: FRED ELLROTT CENTER FAN

Location/Address/RES#: PLANET GRANITE 815 STEWART

Client/RP:

type in post-mitigation implementation data and compare to subsequent inspection measurements.

Visual System Checks	Date	Time	Condition (Good or Poor*)	Initial System Measurements	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Fan*: GPS01	12/15/21	1330	GOOD	Fan						
Piping upstream of fan			GOOD	**Current System Measurements**	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Riser Pipe			GOOD	Fan 123~~8~~77 3677	12/15/21	1330	4.1	9		0.8
Exhaust Varmint Guard			GOOD							
Audible Alarm	N/A									
Plumbing Box Out	N/A									
System Manometer			GOOD							
Sampling Port			GOOD							
System Labeling			GOOD							
Riser Pipe Seals			GOOD							
Carbo Monoxide Detector (if applicable)	N/A									
Information Placards			GOOD							
Owner/Tenant has current information/Notification sheet										

**SSDS Vacuum is measured in the piping downstream of the vapor collecting pipe network and upstream of the fan applying the vacuum.

*Fan numbering should be unique to Arques mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant/System shut-off or failed/notification worked:

NEW SAMPLE PORT.

CHECKED PIPE TO FLOOR SEAL, OK. CHECKED PRESSURE SWITCH, OK

see for reference: *Residential Vapor Intrusion Mitigation System Operations and Maintenance Plan, 52nd Street Motorola Superfund Site Operable Unit 1 Area, Phoenix, Arizona*, Freescale Semiconductor, Inc., June 2013.

ED_013761_00000249-00616

Operations & Maintenance (O&M)

SSDS Mitigation System Performance Inspection Field Form

Inspector/Company: FRED ELLIOTT EAST FAN

Location/Address/RES#: PLANET GRANITE 815 STEWART

Client/RP:

type in post-mitigation implementation data and compare to subsequent inspection measurements

Visual System Checks	Date	Time	Condition (Good or Poor*)	Initial System Measurements	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Fan*: GPS01	12/15/21	1300	GOOD	Fan:						
Piping upstream of fan			GOOD	**Current System Measurements**	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Riser Pipe			GOOD	Fan: 123680	12/15/21	1300	3.9	16		0.7
Exhaust Varmint Guard			GOOD							
Audible Alarm	N/A		N/A							
Plumbing Box Out	N/A									
System Manometer			GOOD							
Sampling Port			GOOD							
System Labeling			GOOD							
Riser Pipe Seals			GOOD							
Carbo Monoxide Detector (if applicable)	N/A									
Information Placards			GOOD							
Owner/Tenant has current information/Notification sheet										

**SSDS Vacuum is measured in the piping downstream of the vapor collecting pipe network and upstream of the fan applying the vacuum.

*Fan numbering should be unique to Arques mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

CHECKED PIPE TO FLOOR SEAL, OK. CHECKED PRESSURE SWITCH, OK.

see for reference: *Residential Vapor Intrusion Mitigation System Operations and Maintenance Plan, 52nd Street Motorola Superfund Site Operable Unit 1 Area, Phoenix, Arizona*, Freescale Semiconductor, Inc., June 2013.

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Operations & Maintenance (O&M)

SSDS Mitigation System Performance Inspection Field Form

Inspector/Company: FRED GILROTI WEST FAN

Location/Address/RES#: PLANET GRANITE 815 STEWART

Client/RP:

type in post-mitigation implementation data and compare to subsequent inspection measurements

Visual System Checks	Date	Time	Condition (Good or Poor*)	Initial System Measurements	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Fan#, GP501	12/15/21	1400	GOOD	Fan _____						
Piping upstream of fan			GOOD	**Current System Measurements**	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Riser Pipe			GOOD	Fan 123672	12/15/21	1400	4.1	9		0.8
Exhaust Varmint Guard			GOOD							
Audible Alarm	N/A									
Plumbing Box Out	N/A									
System Manometer			GOOD							
Sampling Port			GOOD							
System Labeling			GOOD							
Riser Pipe Seals			GOOD							
Carbo Monoxide Detector (if applicable)	N/A									
Information Placards			GOOD							
Owner/Tenant has current information/Notification sheet										

**SSDS Vacuum is measured in the piping downstream of the vapor collecting pipe network and upstream of the fan applying the vacuum.

#Fan numbering should be unique to Arques mitigation network for future comparisons.

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

2 SUCTION POINTS CHECKED PRESSURE SWITCH, OK.
CHECKED PIPE TO FLOOR SEAL, OK. ADJUSTED MAGNEHELIC, OK

see for reference: *Residential Vapor Intrusion Mitigation System Operations and Maintenance Plan, 52nd Street Motorola Superfund Site Operable Unit 1 Area, Phoenix, Arizona*, Freescale Semiconductor, Inc., June 2013.

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Operations & Maintenance (O&M)

SSDS Mitigation System Performance Inspection Field Form

Inspector/Company: FRED ELLROTT CLOSET/LOCKERROOM

Location/Address/RES#: PLANET GRANITE 815 STEWART

Client/RP:

type in post-mitigation implementation data and compare to subsequent inspection measurements

Visual System Checks	Date	Time	Condition (Good or Poor*)	Initial System Measurements	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Fan*: GPS01	12/15/24	1420	GOOD	Fan						
Piping upstream of fan			GOOD	**Current System Measurements**	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Riser Pipe			GOOD	Fan 123674	12/15/24	1420	3.9	6		0.8
Exhaust Varmint Guard			GOOD							
Audible Alarm	N/A									
Plumbing Box Out	N/A									
System Manometer			GOOD							
Sampling Port			GOOD							
System Labelling			GOOD							
Riser Pipe Seals			GOOD							
Carbo Monoxide Detector (If applicable)	N/A									
Information Placards			GOOD							
Owner/Tenant has current information/Notification sheet.										

**SSDS Vacuum is measured in the piping downstream of the vapor collecting pipe network and upstream of the fan applying the vacuum.

*Fan numbering should be unique to Arques mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood//fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

CHECKED PIPE TO FLOOR SEAL, OK CHECKED PRESSURE SWITCH, OK.
REPLACED STRAP AT TOP OF LADDER. CHECKED AUTODIALER, OK

see for reference: *Residential Vapor Intrusion Mitigation System Operations and Maintenance Plan, 52nd Street Motorola Superfund Site Operable Unit 1 Area, Phoenix, Arizona*, Freescale Semiconductor, Inc., June 2013.

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Operations & Maintenance (O&M)

SSDS Mitigation System Performance Inspection Field Form

Inspector/Company: FRED GLIROTT OFFICE FAN

Location/Address/RES#: PLANET GRANITE 815 STEWART

Client/RP:

type in post-mitigation implementation data and compare to subsequent inspection measurements

Visual System Checks	Date	Time	Condition (Good or Poor*)	Initial System Measurements	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Fan*, GPS01	12/15/21	1300	GOOD	Fan						
Piping upstream of fan			GOOD	**Current System Measurements**	Date	Time	Vacuum ("wc)**	Flow (CFM)	Within 25% (Y/N)	Fan Amperage
Riser Pipe			GOOD	Fan 120375	12/15/21		3.8	14		1.0
Exhaust Varmint Guard			GOOD							
Audible Alarm	N/A		N/A							
Plumbing Box Out	N/A		N/A							
System Manometer			GOOD							
Sampling Port			GOOD							
System Labeling			GOOD							
Riser Pipe Seals			GOOD							
Carbo Monoxide Detector (if applicable)	N/A		N/A							
Information Placards			GOOD							
Owner/Tenant has current information/Notification sheet										

**SSDS Vacuum is measured in the piping downstream of the vapor collecting pipe network and upstream of the fan applying the vacuum.

*Fan numbering should be unique to Arques mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

CHECKED PIPE TO FOUNDATION, 3RD PIPE BEHIND DRYWALL - CHECKED PRESSURE SWITCH (OK) CHECKED AUTO DAMPER (OK)

see for reference: *Residential Vapor Intrusion Mitigation System Operations and Maintenance Plan, 52nd Street Motorola Superfund Site Operable Unit 1 Area, Phoenix, Arizona*, Freescale Seminconductor, Inc., June 2013.

ED_013761_00000249-00620

SSDS Post-Mitigation Sampling Field Form

Sampler/Company: Alan Tuan / Locus

RES#: PG-STACK-CENTER

Date: 12/15/21

Occupant Consent Access Date: 11/30/21

Vent Stack Sample Collected?: NO

Visual System Checks	Condition (Good or Poor*)
Piping upstream of fan	GOOD
Riser Pipe	GOOD
Weather-Proof Box	GOOD
System Manometer	GOOD
Sampling Port	GOOD
System Labeling	GOOD
Riser Pipe Seals	GOOD
Information Placards	GOOD

System Readings	Value
Fan Number#	123677
Fan Condition (Good or Poor*)	GOOD
Fan Status As Found (On or Off)**	ON
Fan Status During Sampling (On or Off)**	ON
Vacuum (inches WC), if system-dedicated manometer is present	4.1

*a "poor" finding necessitates corrective action

** If the fan is found in the off position, turn it back on prior to sampling. If the fan cannot be turned on due to fan failure, note that on the field form and notify a Locus technician.

Fan numbering should be unique to Triple Site mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

SSDS Post-Mitigation Sampling Field Form

Sampler/Company: Alan Tuan / Locus

RES#: PG-STACK-OFFICE

Date: 12/15/21

Occupant Consent Access Date: 11/30/21

Vent Stack Sample Collected?: NO

Visual System Checks	Condition (Good or Poor*)
Piping upstream of fan	GOOD
Riser Pipe	GOOD
Weather-Proof Box	GOOD
System Manometer	GOOD
Sampling Port	GOOD
System Labeling	GOOD
Riser Pipe Seals	GOOD
Information Placards	GOOD

System Readings	Value
Fan Number#	120375
Fan Condition (Good or Poor*)	GOOD
Fan Status As Found (On or Off)**	ON
Fan Status During Sampling (On or Off)**	ON
Vacuum (inches WC), if system-dedicated manometer is present	3.8

*a "poor" finding necessitates corrective action

** If the fan is found in the off position, turn it back on prior to sampling. If the fan cannot be turned on due to fan failure, note that on the field form and notify a Locus technician.

Fan numbering should be unique to Triple Site mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

SSDS Post-Mitigation Sampling Field Form

Sampler/Company: Alan Twan / Locus

RES#: P6 Stack - EAST

Date: 12/15/21

Occupant Consent Access Date: 11/30/21

Vent Stack Sample Collected?: NO

Visual System Checks	Condition (Good or Poor*)
Piping upstream of fan	GOOD
Riser Pipe	GOOD
Weather-Proof Box	GOOD
System Manometer	GOOD
Sampling Port	GOOD
System Labeling	GOOD
Riser Pipe Seals	GOOD
Information Placards	GOOD

System Readings	Value
Fan Number#	123650
Fan Condition (Good or Poor*)	GOOD
Fan Status As Found (On or Off)**	ON
Fan Status During Sampling (On or Off)**	ON
Vacuum (inches WC), if system-dedicated manometer is present	3.9

*a "poor" finding necessitates corrective action

** If the fan is found in the off position, turn it back on prior to sampling. If the fan cannot be turned on due to fan failure, note that on the field form and notify a Locus technician.

Fan numbering should be unique to Triple Site mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

SSDS Post-Mitigation Sampling Field Form

Sampler/Company: Alan Tuan / Locus

RES#: PG-STACK-WEST

Date: 12/15/21

Occupant Consent Access Date: 11/30/21

Vent Stack Sample Collected?: NO

Visual System Checks	Condition (Good or Poor*)
Piping upstream of fan	GOOD
Riser Pipe	GOOD
Weather-Proof Box	GOOD
System Manometer	GOOD
Sampling Port	GOOD
System Labeling	GOOD
Riser Pipe Seals	GOOD
Information Placards	GOOD

System Readings	Value
Fan Number#	123672
Fan Condition (Good or Poor*)	GOOD
Fan Status As Found (On or Off)**	ON
Fan Status During Sampling (On or Off)**	ON
Vacuum (inches WC), if system-dedicated manometer is present	4.1

*a "poor" finding necessitates corrective action

** If the fan is found in the off position, turn it back on prior to sampling. If the fan cannot be turned on due to fan failure, note that on the field form and notify a Locus technician.

Fan numbering should be unique to Triple Site mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

SSDS Post-Mitigation Sampling Field Form

Sampler/Company: Alan Tuan / Locus

RES#: PG-STACK-Closet

Date: 12/15/21

Occupant Consent Access Date: 11/30/21

Vent Stack Sample Collected?: NO

Visual System Checks	Condition (Good or Poor*)
Piping upstream of fan	GOOD
Riser Pipe	GOOD
Weather-Proof Box	GOOD
System Manometer	GOOD
Sampling Port	GOOD
System Labeling	GOOD
Riser Pipe Seals	GOOD
Information Placards	GOOD

System Readings	Value
Fan Number#	123674
Fan Condition (Good or Poor*)	GOOD
Fan Status As Found (On or Off)**	ON
Fan Status During Sampling (On or Off)**	ON
Vacuum (inches WC), if system-dedicated manometer is present	3.9

*a "poor" finding necessitates corrective action

** If the fan is found in the off position, turn it back on prior to sampling. If the fan cannot be turned on due to fan failure, note that on the field form and notify a Locus technician.

Fan numbering should be unique to Triple Site mitigation network for future comparisons

Changed Conditions or Anomalies (change in flooring or joints/new utility lines or services//change in dirt flooring such as earthquakes/heavy rain or flood/fires or accidents/change in owner/occupant//System shut-off or failed/notification worked:

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Philips - Arques
Field Activity: Planet Granite O&M
Weather: 55°F Cloudy

Project No.: 2700508/9018
Date: 12/11/21
Logged by: Alan Tuan
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
14:30	Arrive ON-SITE, meet w/ Nicole.
	Check in @ Front Desk
	Begin Sample Pickups.
15:00	Finish Sample Pickups.
15:05	OFF-SITE

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG.XLS\12/6/2017

DAILY FIELD ACTIVITY LOG

Project Name: SIGNETICS

Field Activity: WINTER INDOOR AIR SAMPLING
Weather: CLOUDY, COLD

Project No.: 2700508-908
Date: 12/16/21
Logged by: NICOLE LOOK
Page: 1 of 1

TIME	DAILY ACTIVITIES AND EVENTS
1000	ARRIVE ONSITE WITH JEFF
1005	CHECKIN AT FRONT DESK
	ESCORTED TO DATA CENTER SERVER ROOM
	SET UP SUMMA SAMPLERS AT PNPBAS-PATH4
1029	~~SET~~ BEGAN SUMMA CANISTER SAMPLING, O&M INSPECTION
	BEGAN RADIELLO SAMPLING
1116	BASEMENT SAMPLES DEPLOYED. WENT TO 1st FLOOR
	BEGAN RADIELLO SAMPLING
1148	MET WITH RICK HERNANDEZ
1155	BACK TO SERVER ROOM TO CHECK SUMMA SAMPLE FLOW RATE
1156	28.5", 29" ~~WC~~ Hg
	ON TRACK TO BE COLLECTED AT ~10AM TOMORROW
	SUMMA CANISTER CHECK
1200	CHECK OUT
1210	OFFSITE
	TO RETURN AT 9AM TOMORROW

Comments/Remarks:

Air Purification System Inspection Sheet

Sampler/Company: LOCUS - NICOLE LODL
Location: PNPBAS - GAC
Date: 12/16/21
Occupant Consent Access Date: _____
System ID: _____

System Status	Value
Fan Status As Found (On or Off)	ON
System Cord Plugged in? (Yes or No)	YES
Vacuum at end of Hose (" in WC)	1.0

Visual Checks	Value
Fan Condition (Good or Poor)	GOOD
Drum Condition (Good or Poor)	GOOD
Cord Condition (Good or Poor)	GOOD
System Labels Conditions (Good or Poor)	POOR, FACES WALL
Screen Condition (Good or Poor)	GOOD
Screen Cleaned? (Yes or No)	NO

Carbon Status	Value
Date of Previous Carbon Change:	Date: 11/18/2020
Performed Carbon Change?	Yes / (No)
Anticipated Date of Next Carbon Change (required every 2-4 years):	Date: 11/2022

Was system left operating and in good condition? If not, provide detail and propose corrective action.
YES
Additional notes: LABEL COULD FACE OUTWARD, MOVED LABEL FOR VISIBILITY.

*A "Poor" finding of system components necessitates corrective action

Locus TECHNOLOGIES

PHOTOS FROM 440 WOLFE O&M INSPECTION 17 DECEMBER 2021

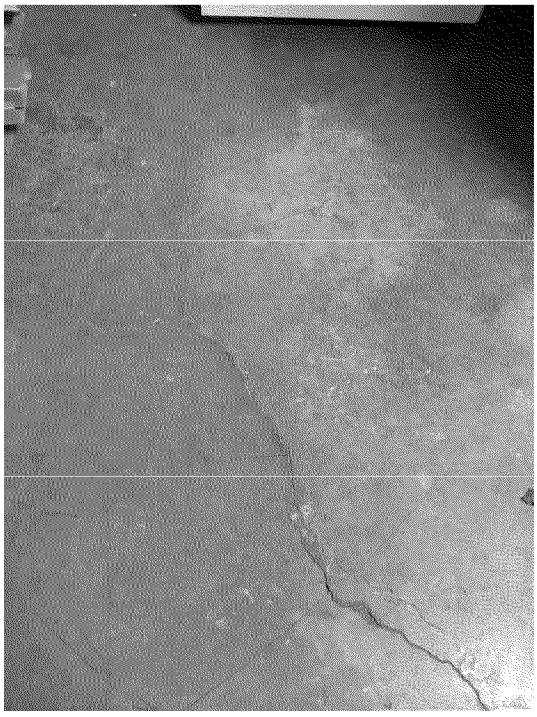

Photo 1: Crack in Shaft Room

Photo 2: Thin crack in Shaft Room

Photo 3: Crack in Shaft Room

Photo 4: Crack in Shaft Room

Photo 5: Unsealed crack by northern wall

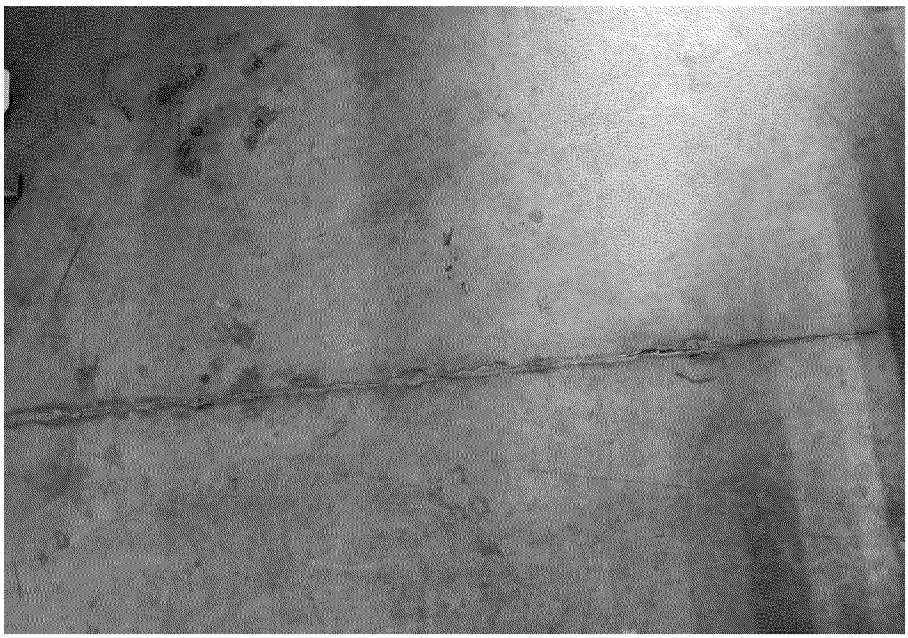

Photo 6: Sealed crack by northern wall outside Boiler Room

Figure 7: Unsealed crack by PNPBAS-AMB-3 location

Photo 8: Cracks found in Storage Room

Figure 9: Unsealed crack by southern air handler

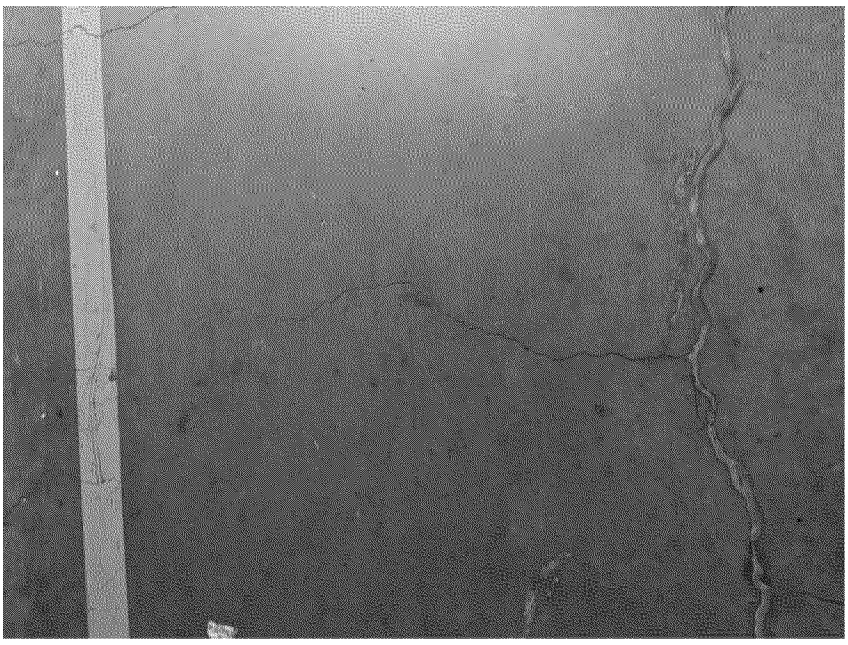

Figure 10: Sealed and lateral unsealed crack in hallway

Figure 11: Sealed and unsealed crack in hallway (alternate view)

DAILY FIELD ACTIVITY LOG

Locus TECHNOLOGIES

Project Name: Signetics

Field Activity: INDOOR AIR SAMPLE COLLECTION
Weather: SUNNY, COLD

Project No.: 2700508
Date: 12/17/21
Logged by: NICOLE COOK
Page: 1 of

TIME	DAILY ACTIVITIES AND EVENTS
900	ARRIVE AT 440 WOLFE
	CHECK-IN AT FRONT DESK
	ACCESS TO DATA CENTER
909	SUMMA VACCUUM AT 8" Hg, 8" Hg
930	SUMMA VACCUUM AT 7" Hg
1000	SUMMA VACCUUM AT 7" Hg
	OK TO COLLECT AT 1029
1029	STOPPED SUMMA COLLECTION
	BEGAN COLLECTING RADIELLO SAMPLERS
	CRACKS IN CONCRETE SURVEY. ALL SEALS REMAIN INTACT
	SEE MAP AND PHOTOS FOR DETAILS
1117	OFFICE FLOOR SAMPLE COLLECTION
1145	SAMPLE COLLECTION COMPLETE
	CHECKED OUT
1150	OFFSITE

Comments/Remarks:

MV\I:\SAMPLING\DAILY FIELD LOG\2/15/2017

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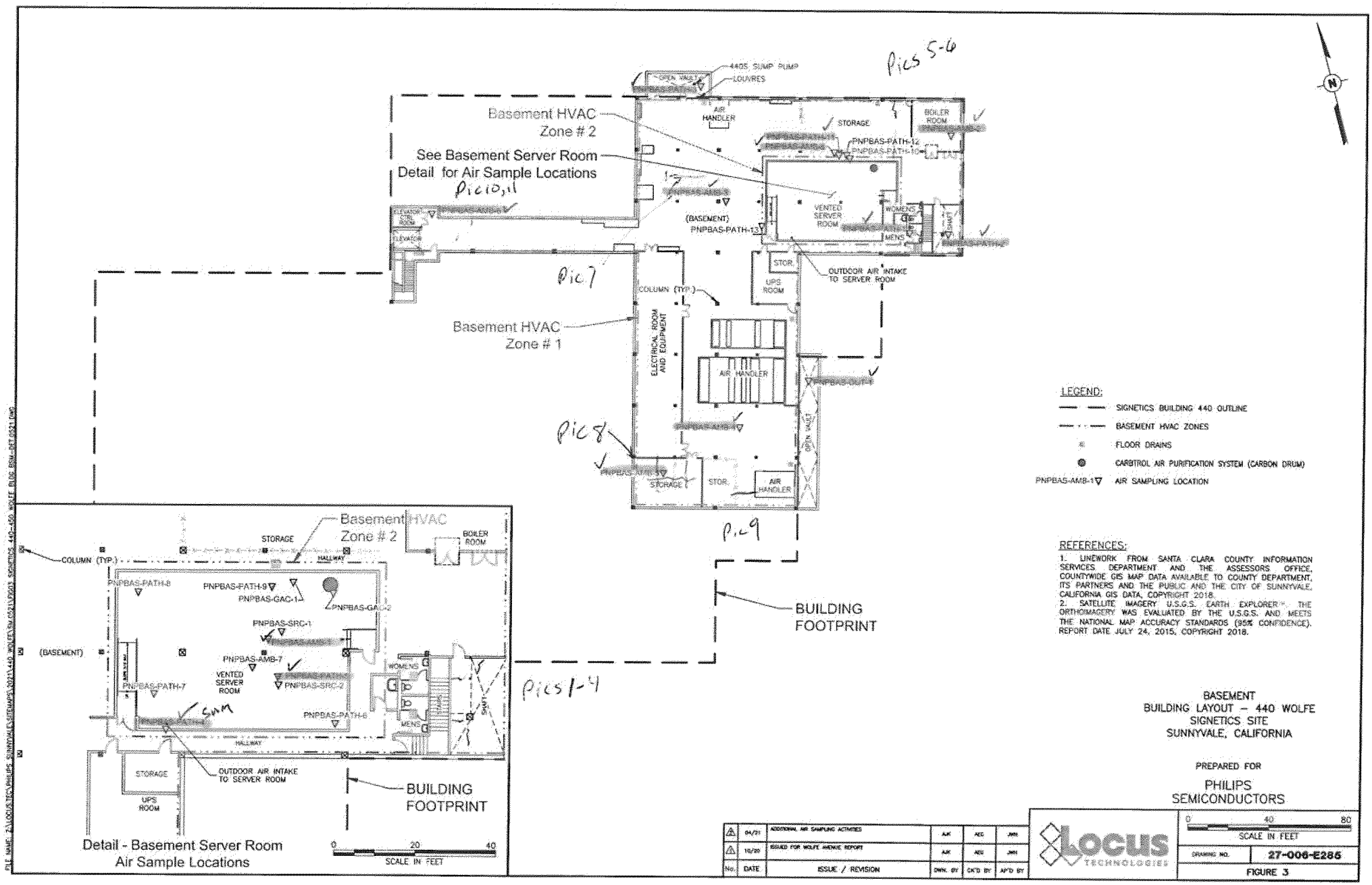

Appendix F
440 Wolfe Pre-Emptive Mitigation Photo Log

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APPENDIX F: 440 WOLFE PRE-EMPTIVE MITIGATION PHOTOS 24 AUGUST 2021

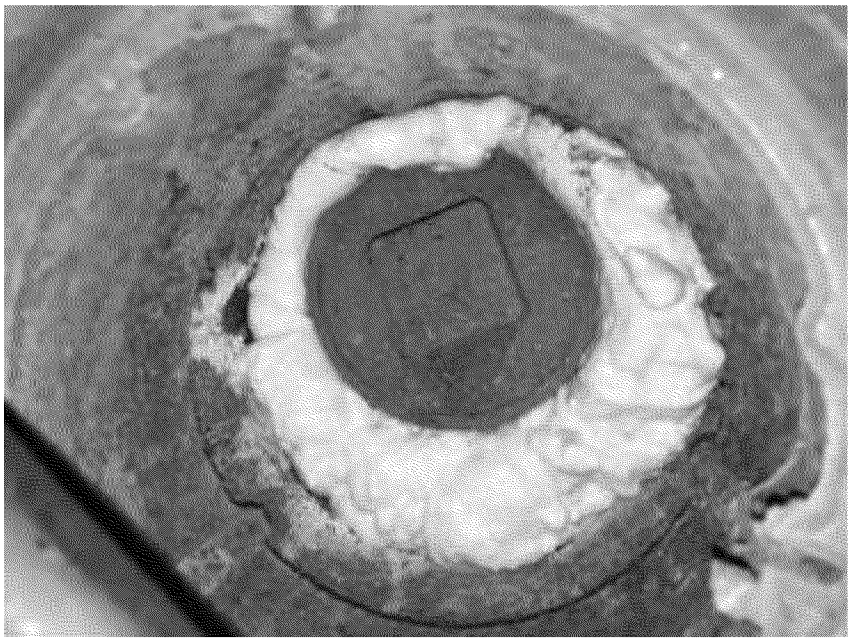

Photo 1: Sealed area around utility cleanout pipe

Photo 2: Lid of cleanout utility with silicone sealant

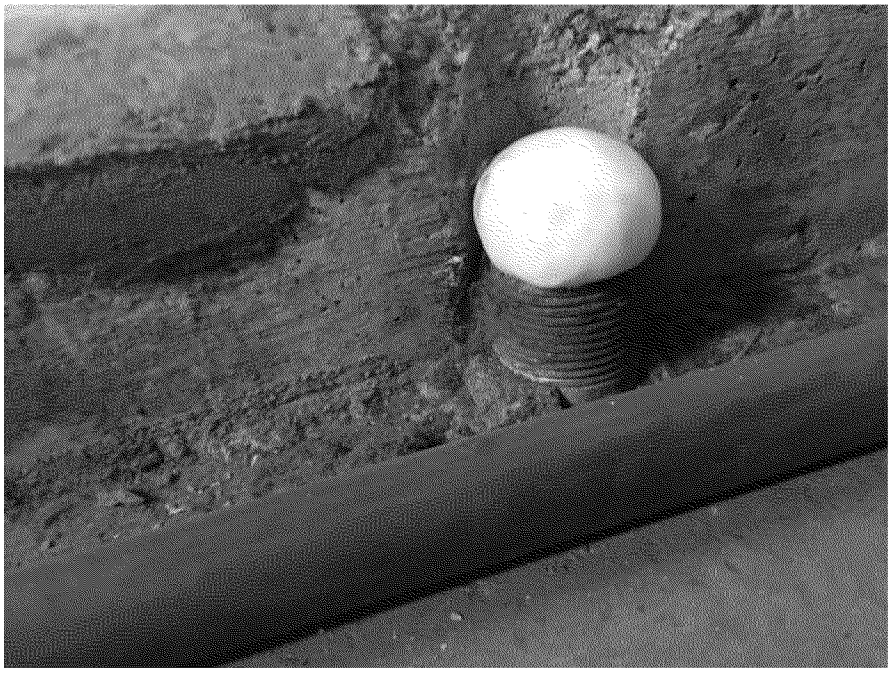

Photo 3: Sealed open pipe

Photo 4: Sealed pipe in relation to cleanout utility location

Figure 5: Sealed grounding rod in server room

Appendix G
Historical O&M Field Parameters

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APPENDIX G
HISTORICAL O&M MITIGATION SYSTEM FIELD MEASUREMENTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

440 Wolfe		
Location	**Date**	**Vacuum in. wc**
PNPBAS-GAC-1	01/22/2019	-0.7
	02/19/2019	-0.7
	05/07/2019	1.0
	09/18/2019	-0.7
	12/08/2020	1.54

APPENDIX G
HISTORICAL O&M MITIGATION SYSTEM FIELD MEASUREMENTS
SIGNETICS SITE, SUNNYVALE, CALIFORNIA

815 Stewart				
Location	**Date**	**Amperage Amp**	**Flow CFM**	**Vacuum in. wc**
PG-CENTER	10/25/2018	--	--	-7.8
	11/27/2018	0.7	7	4.2
	01/22/2019	--	--	-4.1
	02/19/2019	--	--	-3.9
	05/07/2019	0.8	5.5	3.93
	09/18/2019	--	--	3.8
	12/15/2020	0.9	2.4	4.19
PG-CLOSET	10/25/2018	--	--	-3.7
	11/27/2018	0.9	14	4.0
	01/22/2019	--	--	-2.4
	02/19/2019	--	--	-3.9
	05/07/2019	0.8	6	-3.8
	09/18/2019	--	--	3.7
	12/15/2020	1.0	14.7	4.25
PG-EAST	10/25/2018	--	--	-3.9
	11/27/2018	0.6	16	3.9
	01/22/2019	--	--	2.4
	02/19/2019	--	--	-0.2
	05/07/2019	0.9	4	-4.02
	09/18/2019	--	--	-3.9
	12/15/2020	0.9	7.4	4.30
PG-MOON	10/25/2018	--	--	-3.8
	11/27/2018	0.8	9	4.1
	01/22/2019	--	--	-3.7
	02/19/2019	--	--	-3.9
	05/07/2019	0.9	5	3.9
	09/18/2019	--	--	4.0
	12/15/2020	1.2	39.3	3.43
PG-WEST	10/25/2018	--	--	-3.9
	11/27/2018	0.7	10	4.1
	01/22/2019	--	--	3.2
	02/19/2019	--	--	-0.9
	05/07/2019	0.7	4	4.09
	09/18/2019	--	--	4.0
	12/15/2020	1.0	6.7	4.23