

CASE NARRATIVE

BSI Group**Project Name: H.S. 460@R460****Project # N/A****Chemtech Project # M1104****Test Name: PCB Group1****A. Number of Samples and Date of Receipt:**

30 Solid samples were received on 01/12/2021.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PCB Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_R. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for

S3-02-B [Decachlorobiphenyl(1) - 259%, Decachlorobiphenyl(2) - 245%],

S3-04-B [Decachlorobiphenyl(1) - 359%, Decachlorobiphenyl(2) - 340%],

S3-04-BDL [Decachlorobiphenyl(1) - 387%, Decachlorobiphenyl(2) - 344%],

S3-05-B [Decachlorobiphenyl(1) - 187%, Decachlorobiphenyl(2) - 169%],

S3-06-B [Decachlorobiphenyl(1) - 192%, Decachlorobiphenyl(2) - 202%],

S3-07-B [Decachlorobiphenyl(1) - 488%, Decachlorobiphenyl(2) - 458%],

S3-08-B [Decachlorobiphenyl(1) - 263%, Decachlorobiphenyl(2) - 282%],

S3-08-BDL [Decachlorobiphenyl(1) - 305%, Decachlorobiphenyl(2) - 275%],

S3-09-B [Decachlorobiphenyl(1) - 607%, Decachlorobiphenyl(2) - 595%],

S3-02-C [Decachlorobiphenyl(1) - 316%, Decachlorobiphenyl(2) - 285%],

S3-02-CDL [Decachlorobiphenyl(1) - 351%, Decachlorobiphenyl(2) - 305%],

S3-04-C [Decachlorobiphenyl(1) - 274%, Decachlorobiphenyl(2) - 243%] and

S3-09-C [Decachlorobiphenyl(1) - 173%]. All these samples have positive detection of AR1268, which may cause DCB failure.



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The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.
The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

Samples S3-02-B and S3-09-B were diluted due to bad matrices.
Samples S3-04-B, S3-08-B and S3-02-C were diluted due to high concentrations.

E. Additional Comments:

Samples S3-02-B and S3-09-B based on history of other projects of this client, Lab has analyzed above mentioned sample with straight 5x dilution. All positive detection are above lowest point concentration. Hence undiluted analysis will not be provided.

Samples S3-05-C and S3-06-C hard copy data not match with fax data due %solid not report in fax data. Now reported h/c data are corrected.

As per special requirement for this project form-1 are reported in mg/kg.
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____