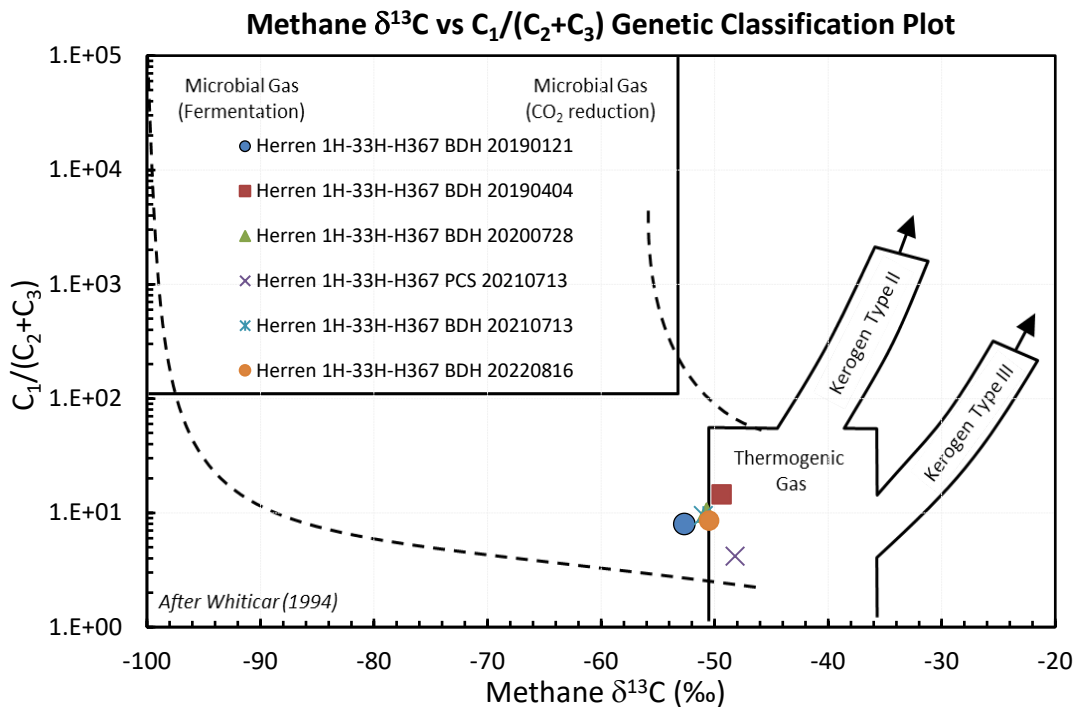
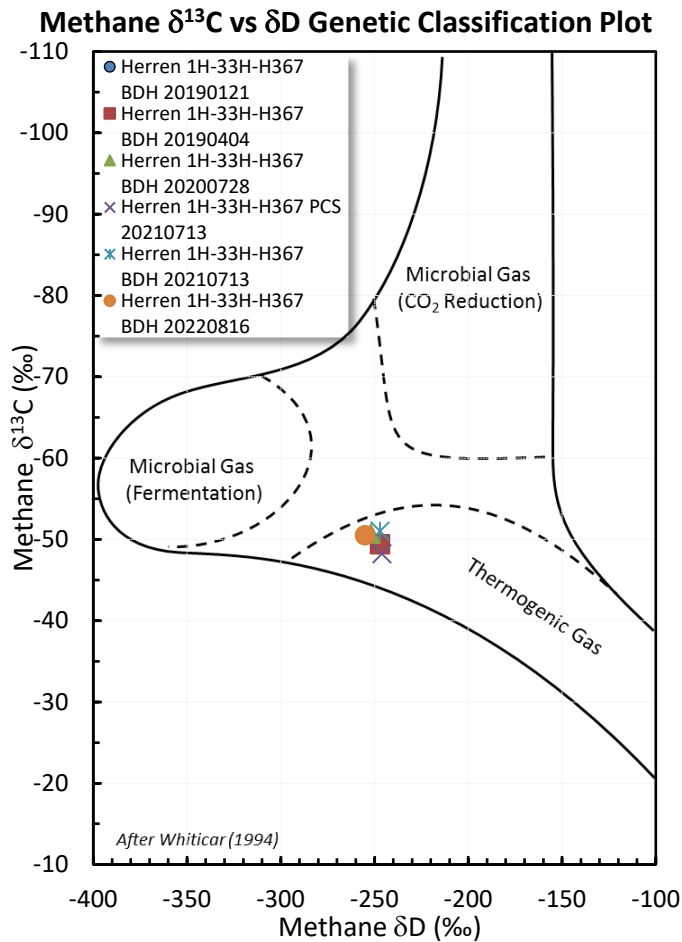
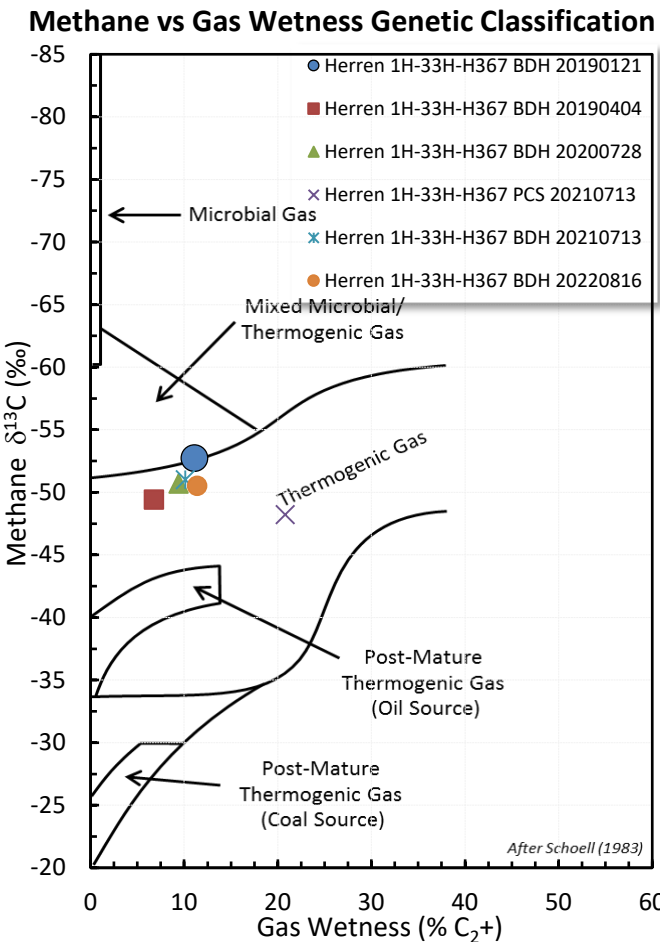
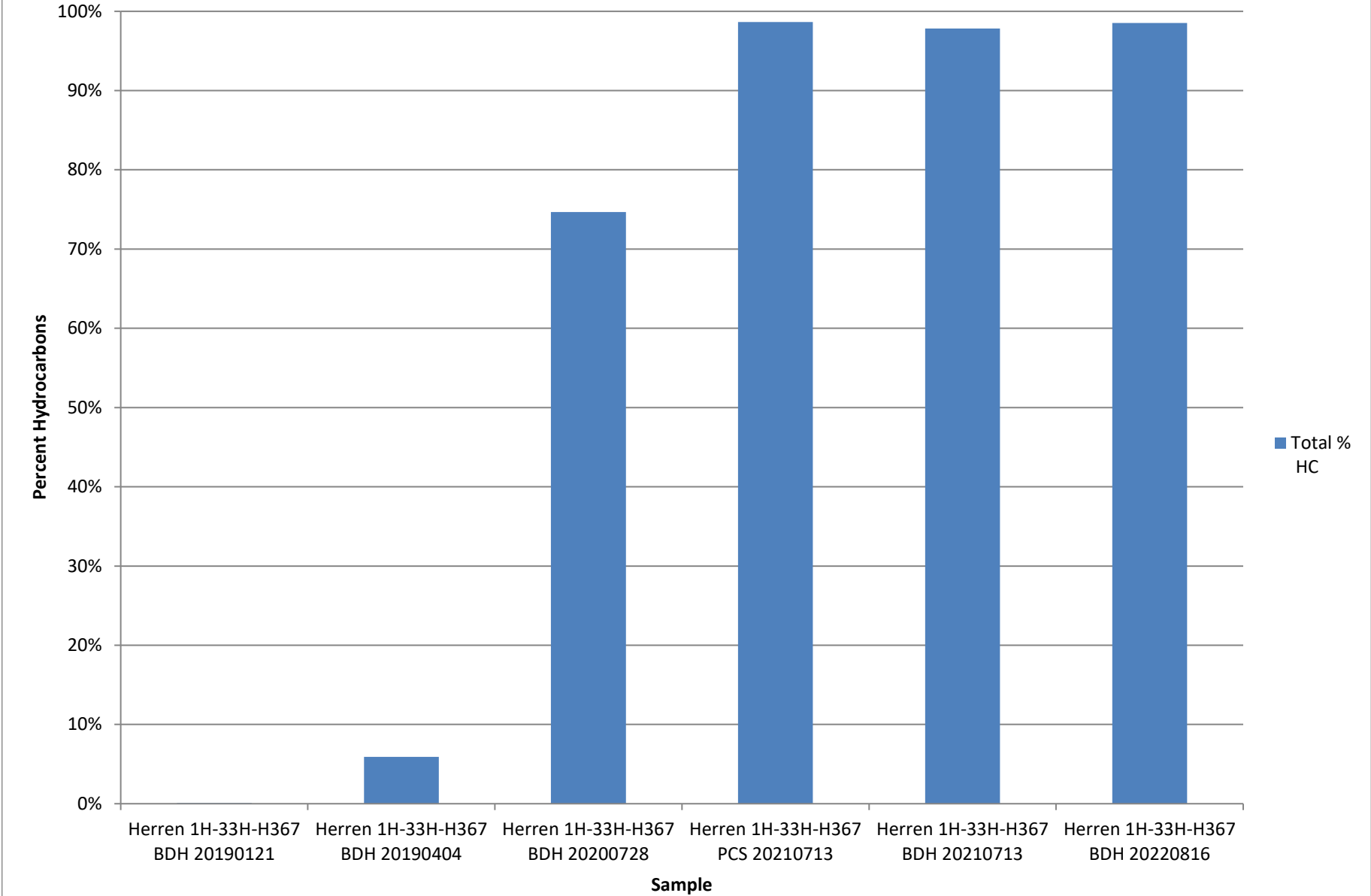


Stable Isotope Interpretive Plots



Total Percent Hydrocarbons



GAS COMPOSITION

Y-axis: GAS COMPOSITION (MOL %)

X-axis: Parameter

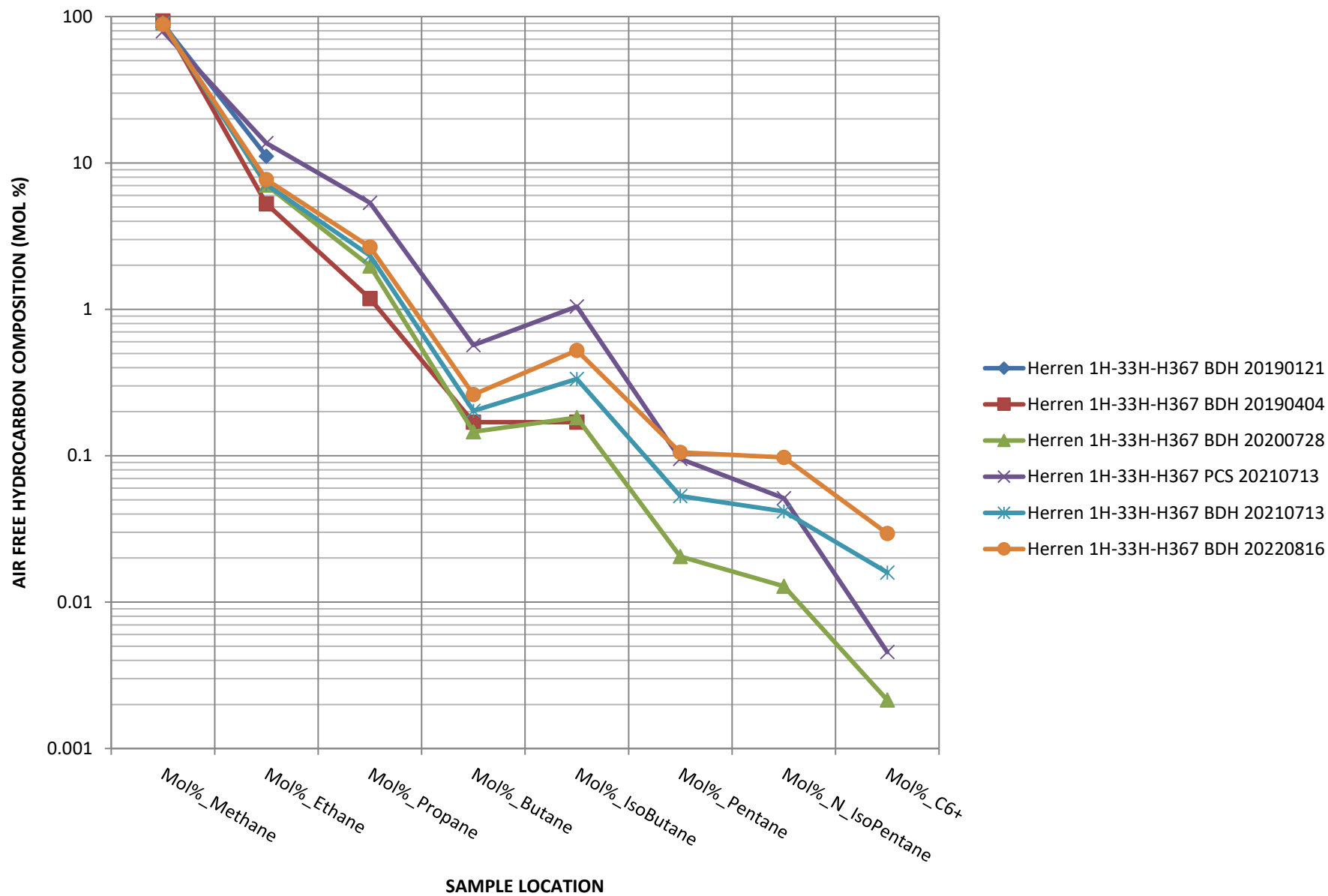
Legend:

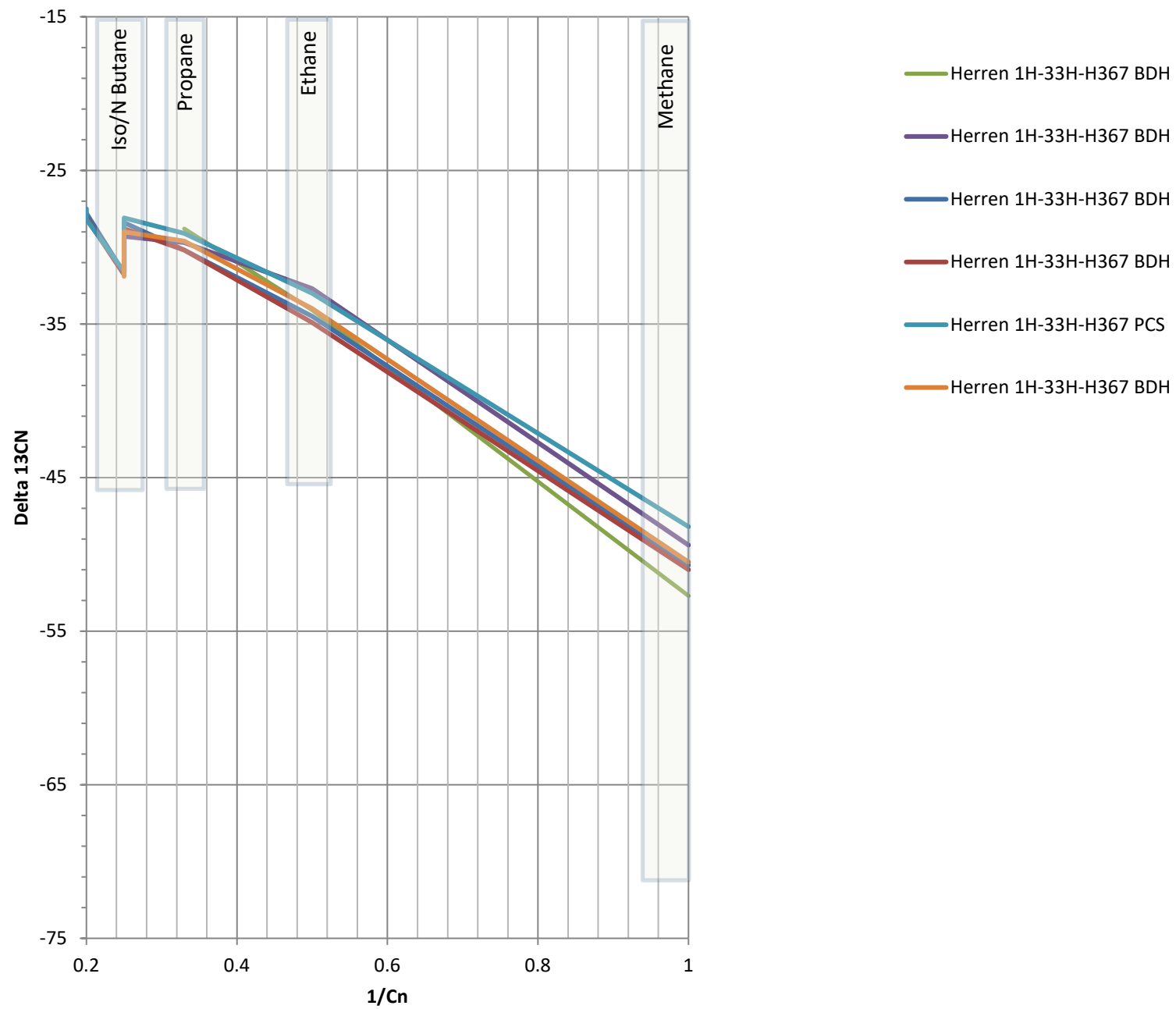
- Herren 1H-33H-H367 BDH 20190121
- Herren 1H-33H-H367 BDH 20190404
- Herren 1H-33H-H367 BDH 20200728
- Herren 1H-33H-H367 PCS 20210713
- Herren 1H-33H-H367 BDH 20210713

Parameter	Herren 1H-33H-H367 BDH 20190121	Herren 1H-33H-H367 BDH 20190404	Herren 1H-33H-H367 BDH 20200728	Herren 1H-33H-H367 PCS 20210713	Herren 1H-33H-H367 BDH 20210713
Mol%_Nitrogen	10	12	18	0.6	2
Mol%_Oxygen	0.02	0.02	5	0.07	0.02
Mol%_Argon	0.012	0.012	0.25	0.01	0.012
Mol%_O2+AR	0.01	3	0.01	0.25	0.01
Mol%_CarbonDioxide	0.01	0.01	0.01	0.01	0.01
Mol%_Helium	95	80	1	0.4	0.02
Mol%_hydrogen	0.08	0.08	0.08	0.08	0.08
Mol%_Methane	5	5	5	13	7
Mol%_Ethane	0.07	0.07	1.5	5	2.5
Mol%_Propane	0.2	0.2	0.11	0.55	0.25
Mol%_Butane	0.15	0.15	0.14	1	0.35
Mol%_IsoButane	0.05	0.05	0.015	0.09	0.1
Mol%_N_Pentane	0.045	0.045	0.045	0.05	0.045
Mol%_IsoPentane	0.015	0.015	0.015	0.015	0.015
Mol%_C6+	0.01	0.01	0.01	0.01	0.01

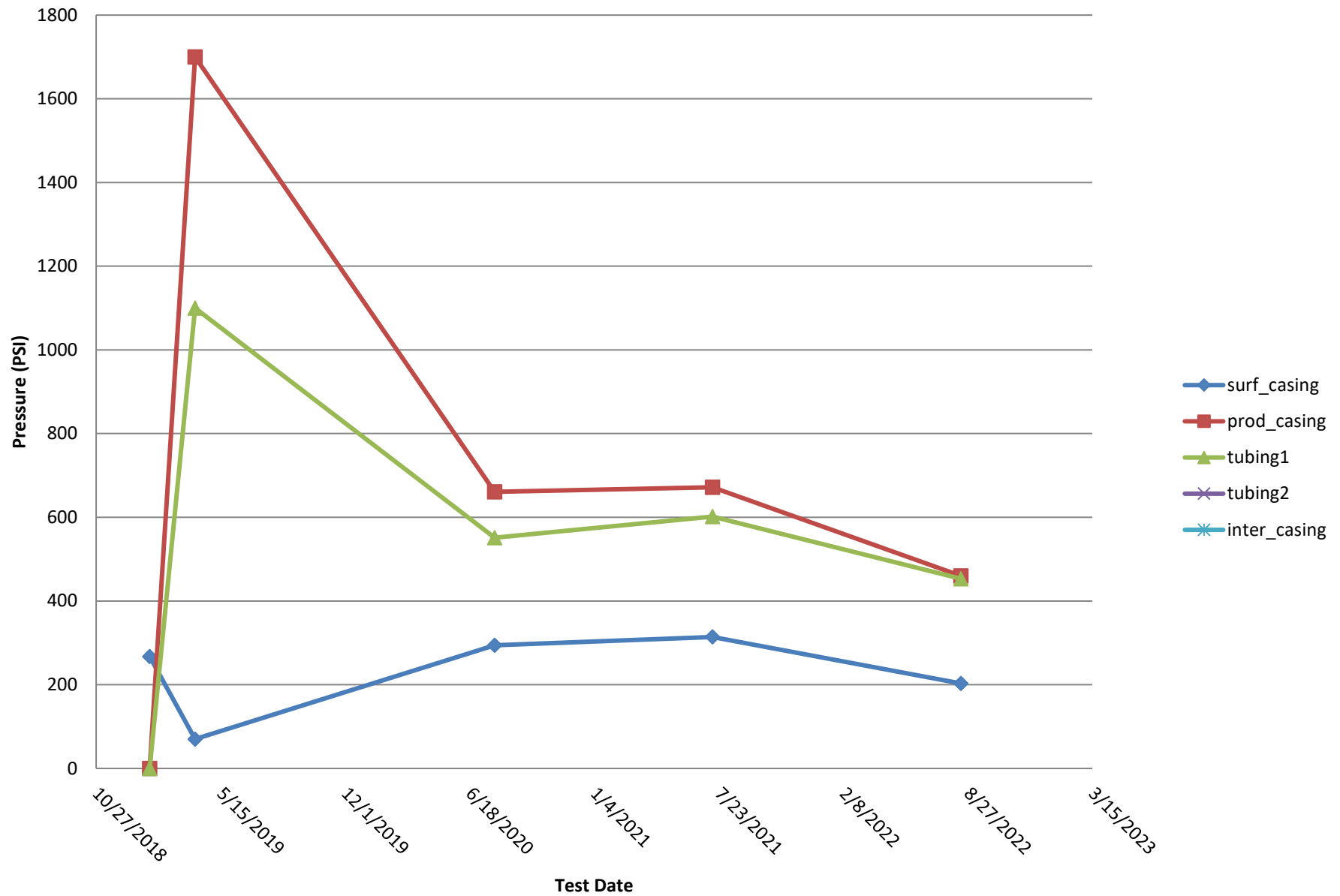
- Herren 1H-33H-H367 BDH
20190121
- Herren 1H-33H-H367 BDH
20190404
- Herren 1H-33H-H367 BDH
20200728
- Herren 1H-33H-H367 PCS
20210713
- Herren 1H-33H-H367 BDH
20210713

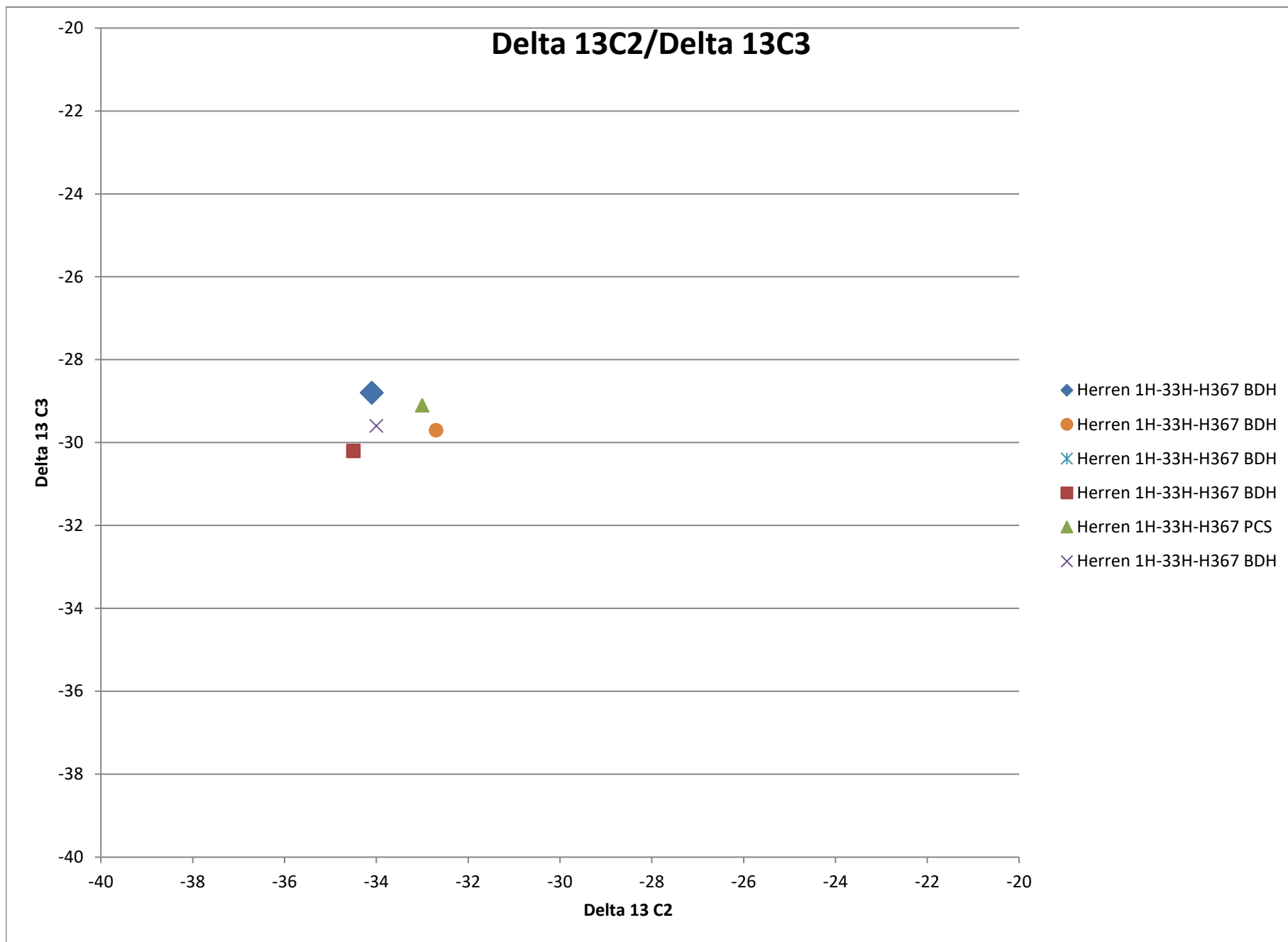
HYDROCARBON COMPOSITION



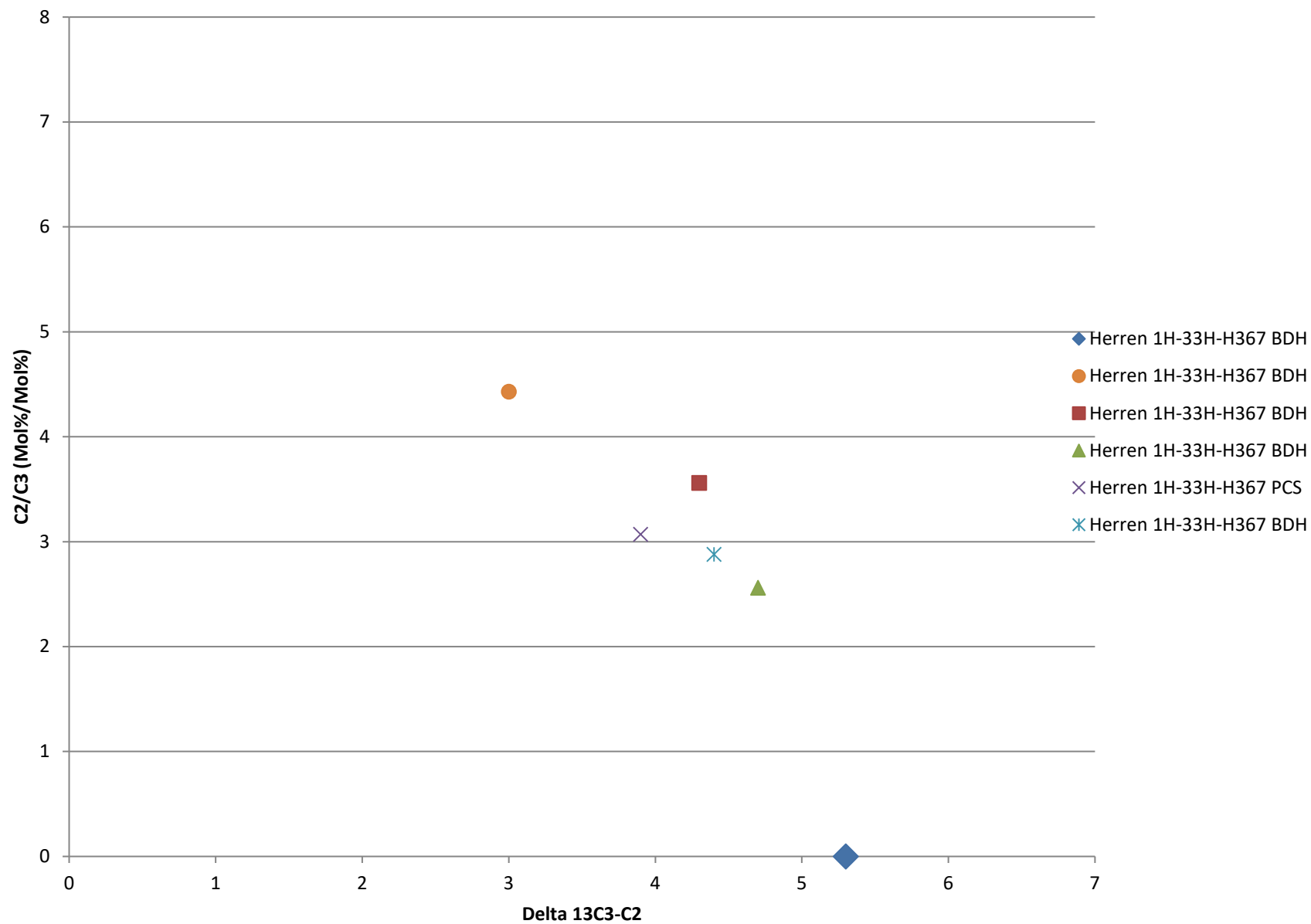


Bradenhead Test Summary





Delta13 C2/C3 vs. Delta 13C3-C2



Delta 13 IC4/ Delta NC4

