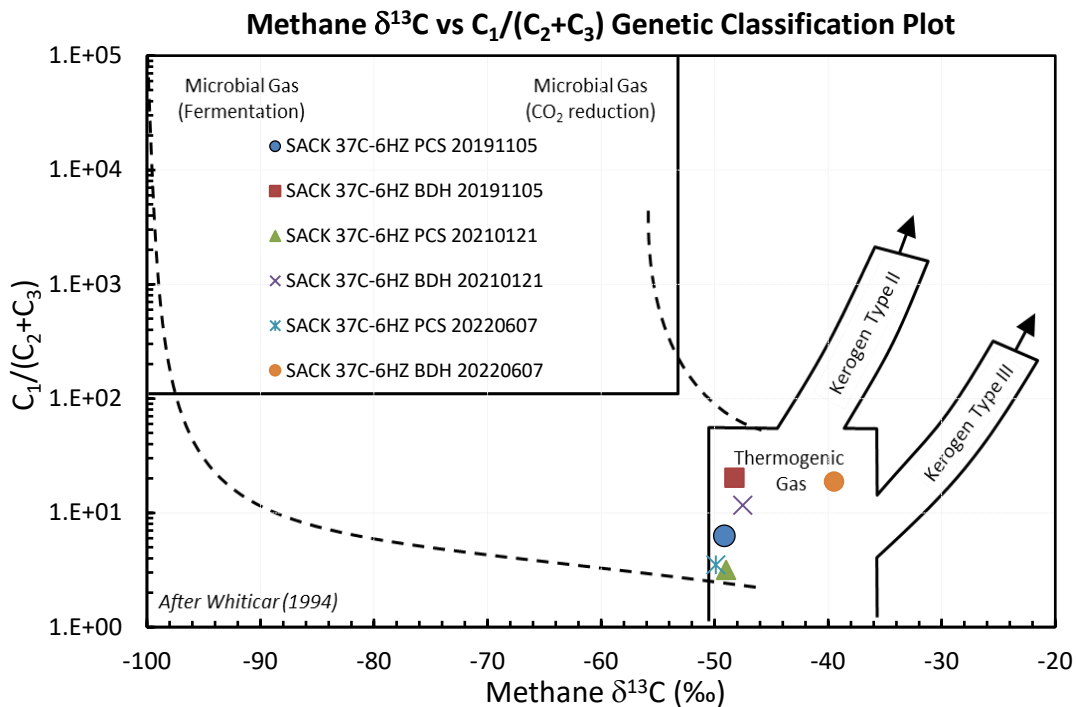
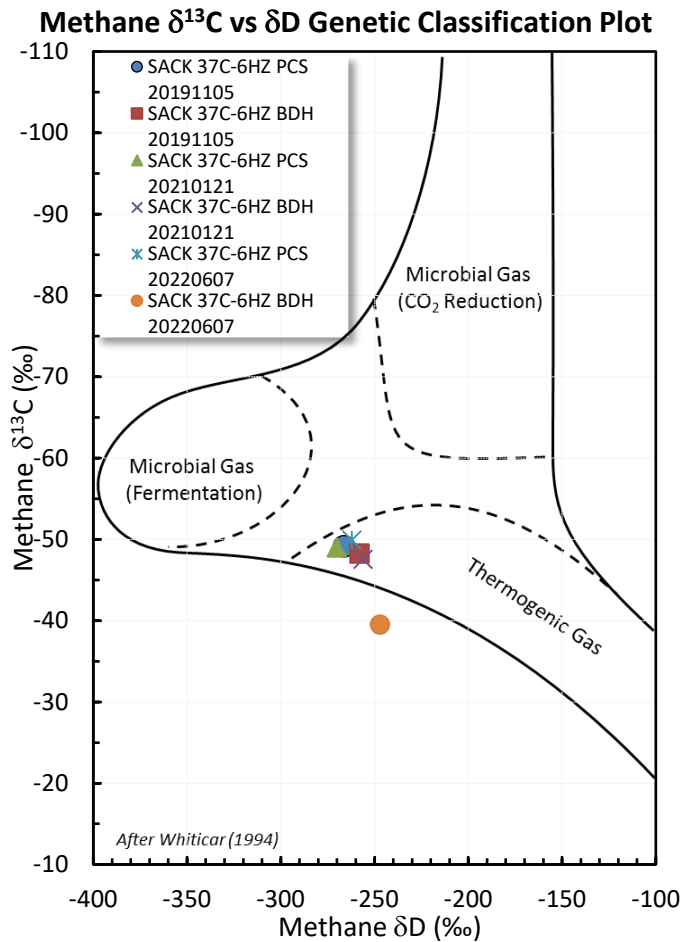
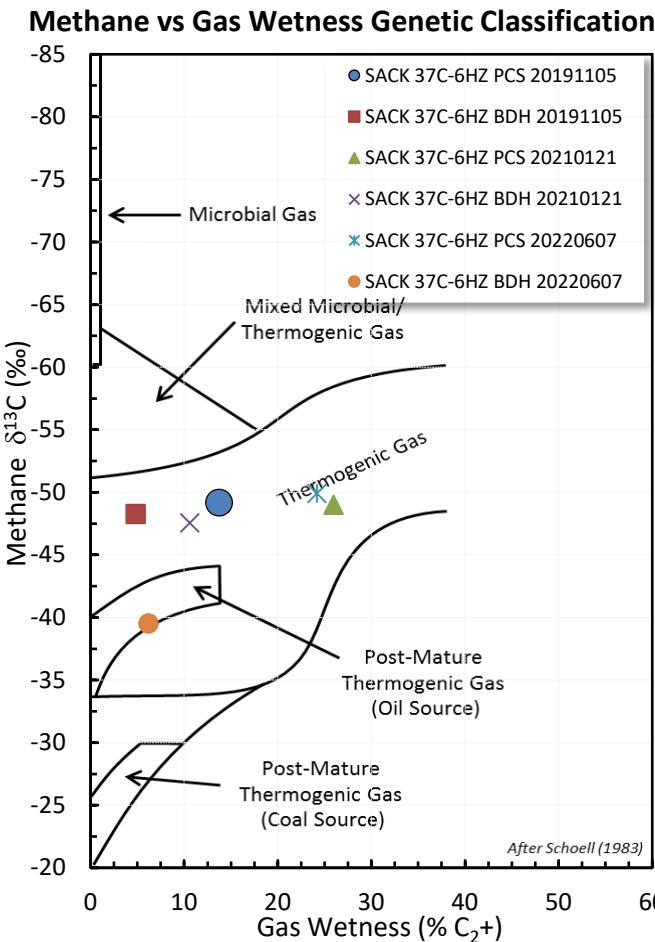
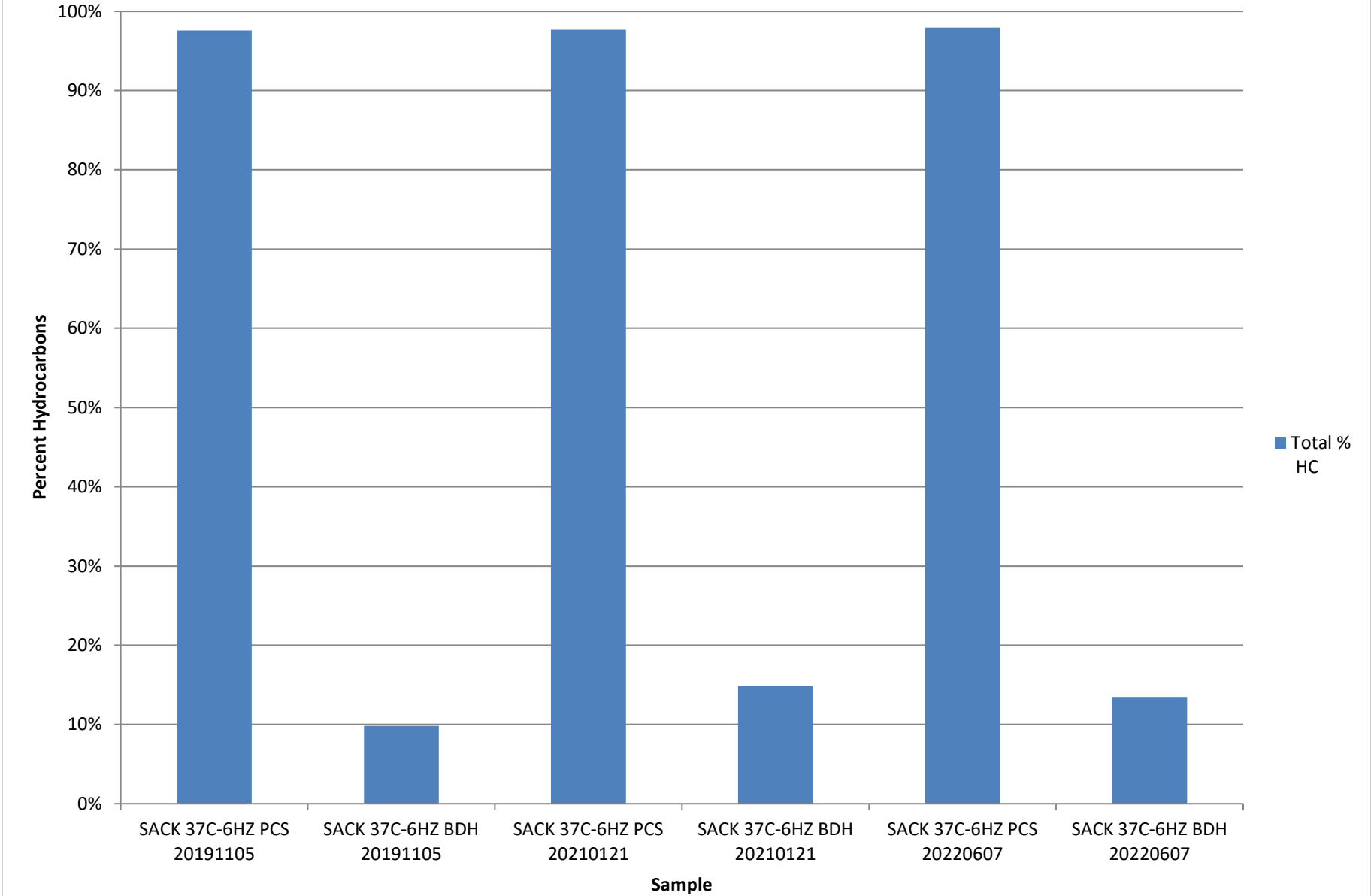


Stable Isotope Interpretive Plots



Total Percent Hydrocarbons



GAS COMPOSITION

Y-axis: GAS COMPOSITION (MOL %)

X-axis: Parameter

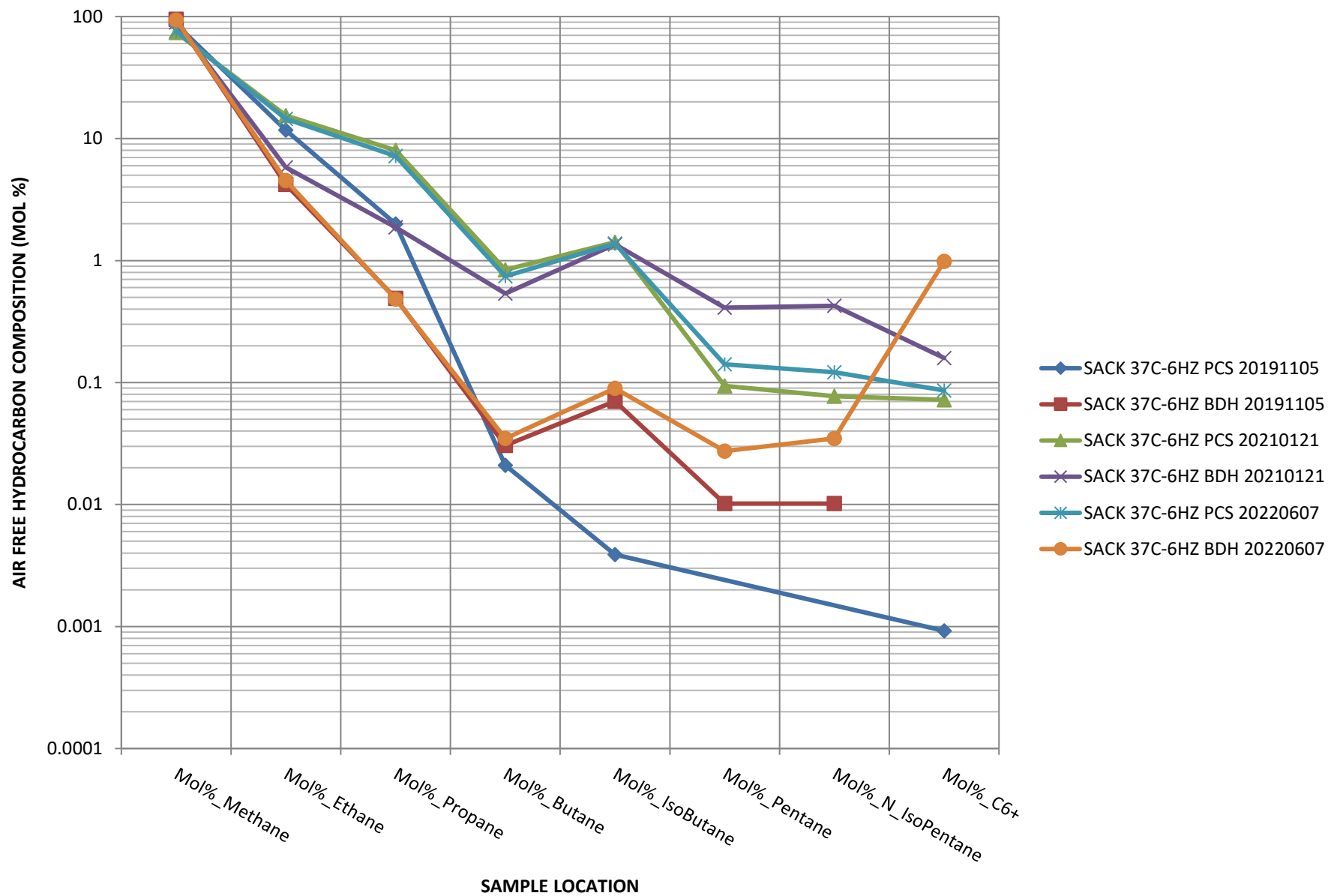
Legend:

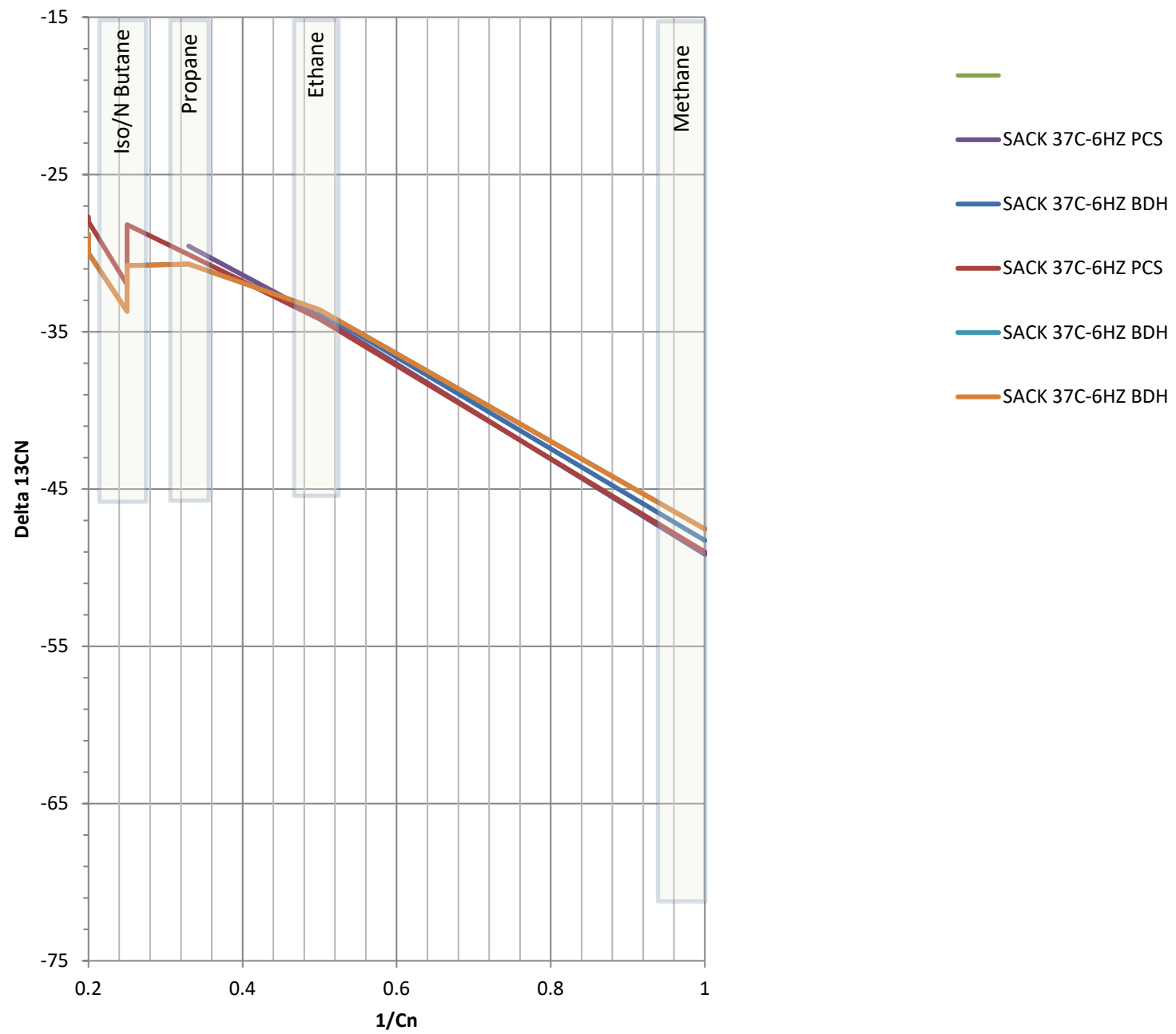
- SACK 37C-6HZ PCS 20191105
- SACK 37C-6HZ BDH 20191105
- SACK 37C-6HZ PCS 20210121
- SACK 37C-6HZ BDH 20210121
- SACK 37C-6HZ PCS 20220607
- SACK 37C-6HZ BDH 20220607

Parameter	SACK 37C-6HZ PCS 20191105	SACK 37C-6HZ BDH 20191105	SACK 37C-6HZ PCS 20210121	SACK 37C-6HZ BDH 20210121	SACK 37C-6HZ PCS 20220607	SACK 37C-6HZ BDH 20220607
Mol%_Nitrogen	0.7	75	0.6	65	0.5	70
Mol%_Oxygen	0.02	12	0.05	12	0.01	10
Mol%_Argon	0.001	1.0	0.001	1.2	0.001	1.5
Mol%_O2+AR	1.5	0.001	1.5	0.05	1.3	0.001
Mol%_CarbonDioxide	0.001	0.001	0.001	0.001	0.001	0.3
Mol%_CarbonMonoxide	0.012	0.001	0.001	0.001	0.001	0.001
Mol%_Helium	0.15	0.001	0.11	0.001	0.16	0.001
Mol%_hydrogen	80	9	70	12	70	12
Mol%_Methane	11	0.4	14	0.8	13	0.6
Mol%_Ethane	2.0	0.05	7.5	0.3	7.0	0.06
Mol%_Propane	0.02	0.001	0.8	0.08	0.7	0.001
Mol%_Butane	0.001	0.001	1.3	0.2	1.3	0.01
Mol%_IsoButane	0.001	0.001	0.09	0.06	0.14	0.001
Mol%_N_Pentane	0.001	0.001	0.07	0.06	0.12	0.001
Mol%_C6+	0.001	0.001	0.07	0.025	0.08	0.13

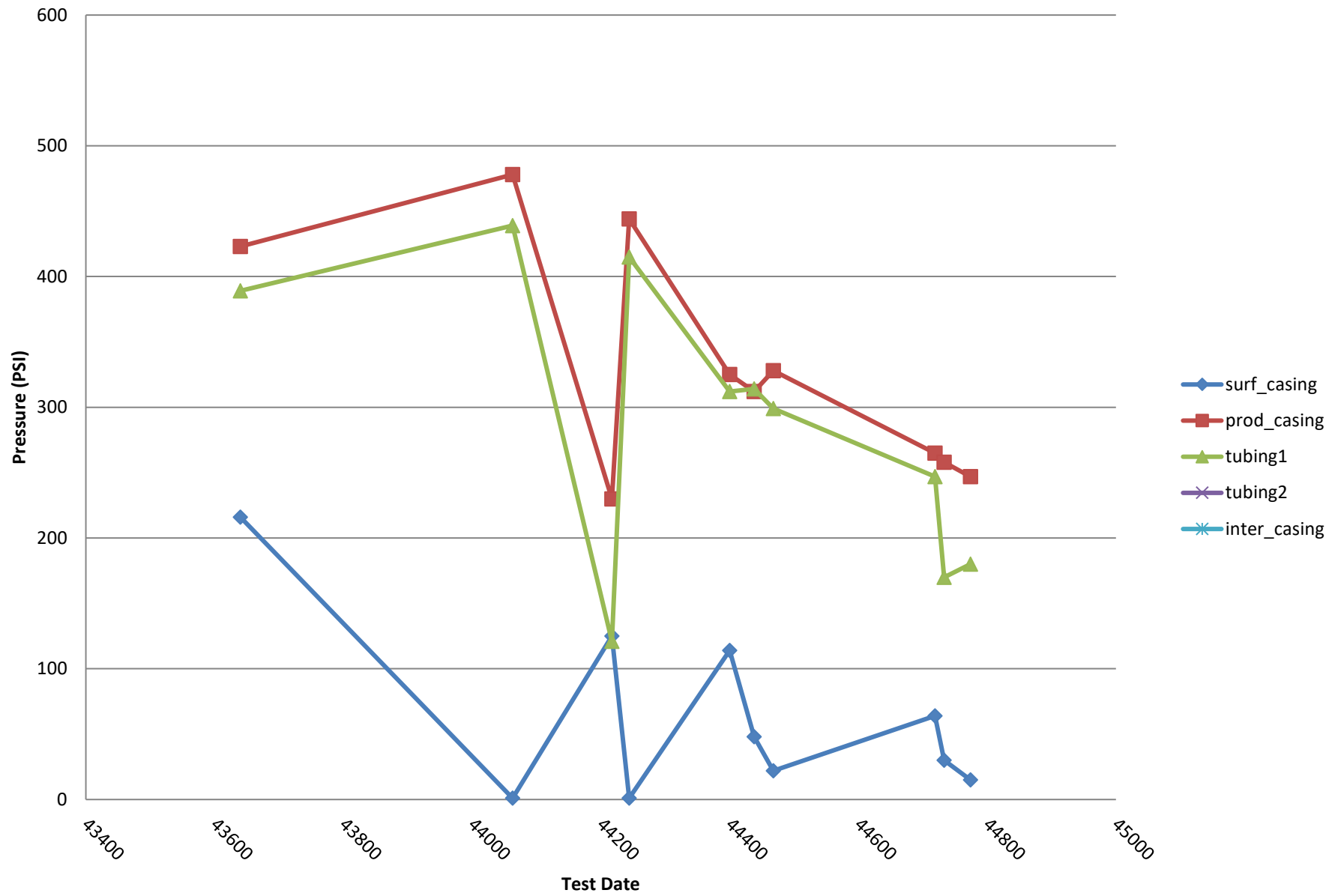
- SACK 37C-6HZ PCS 20191105
- SACK 37C-6HZ BDH 20191105
- SACK 37C-6HZ PCS 20210121
- SACK 37C-6HZ BDH 20210121
- SACK 37C-6HZ PCS 20220607
- SACK 37C-6HZ BDH 20220607

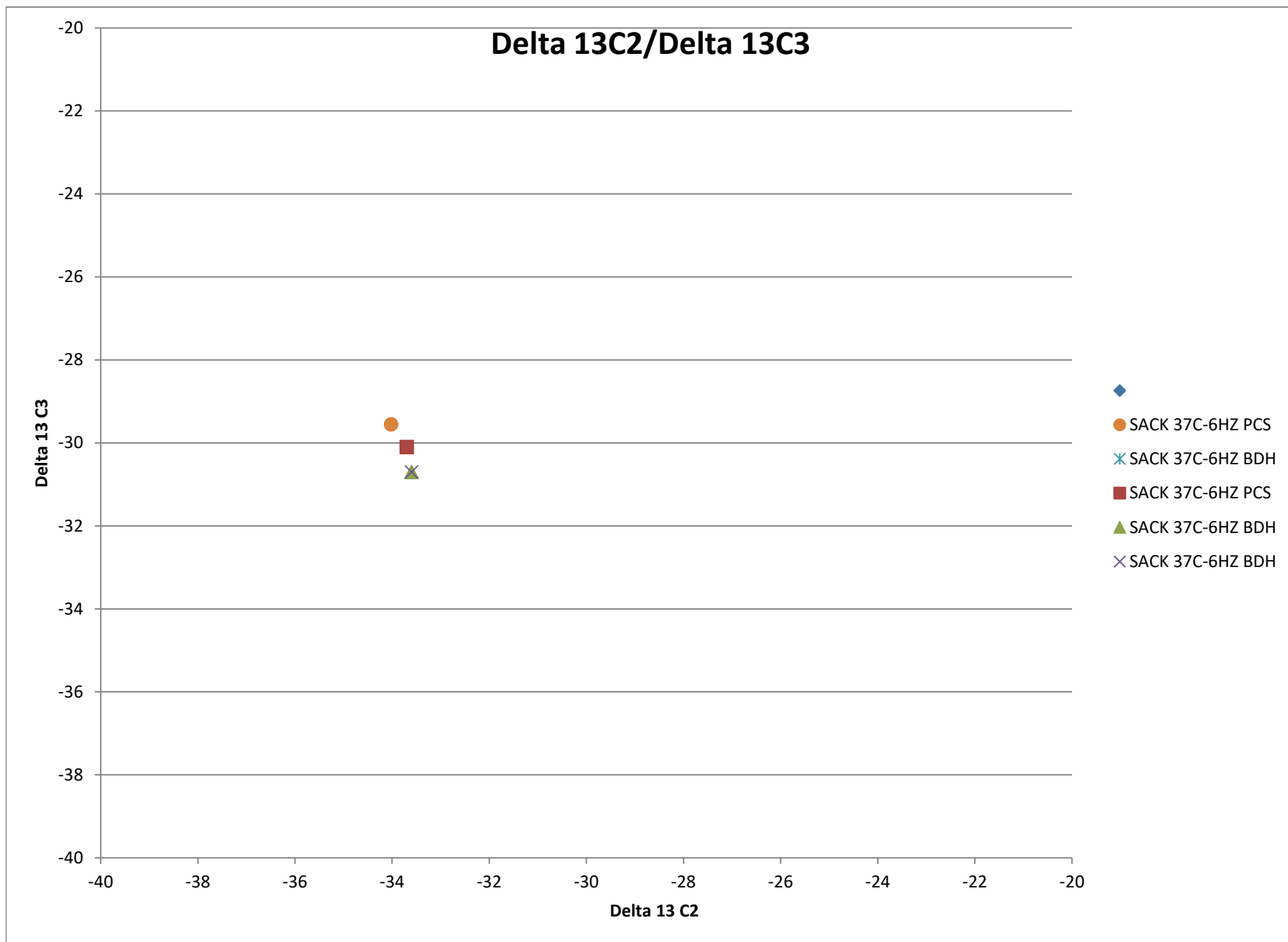
HYDROCARBON COMPOSITION



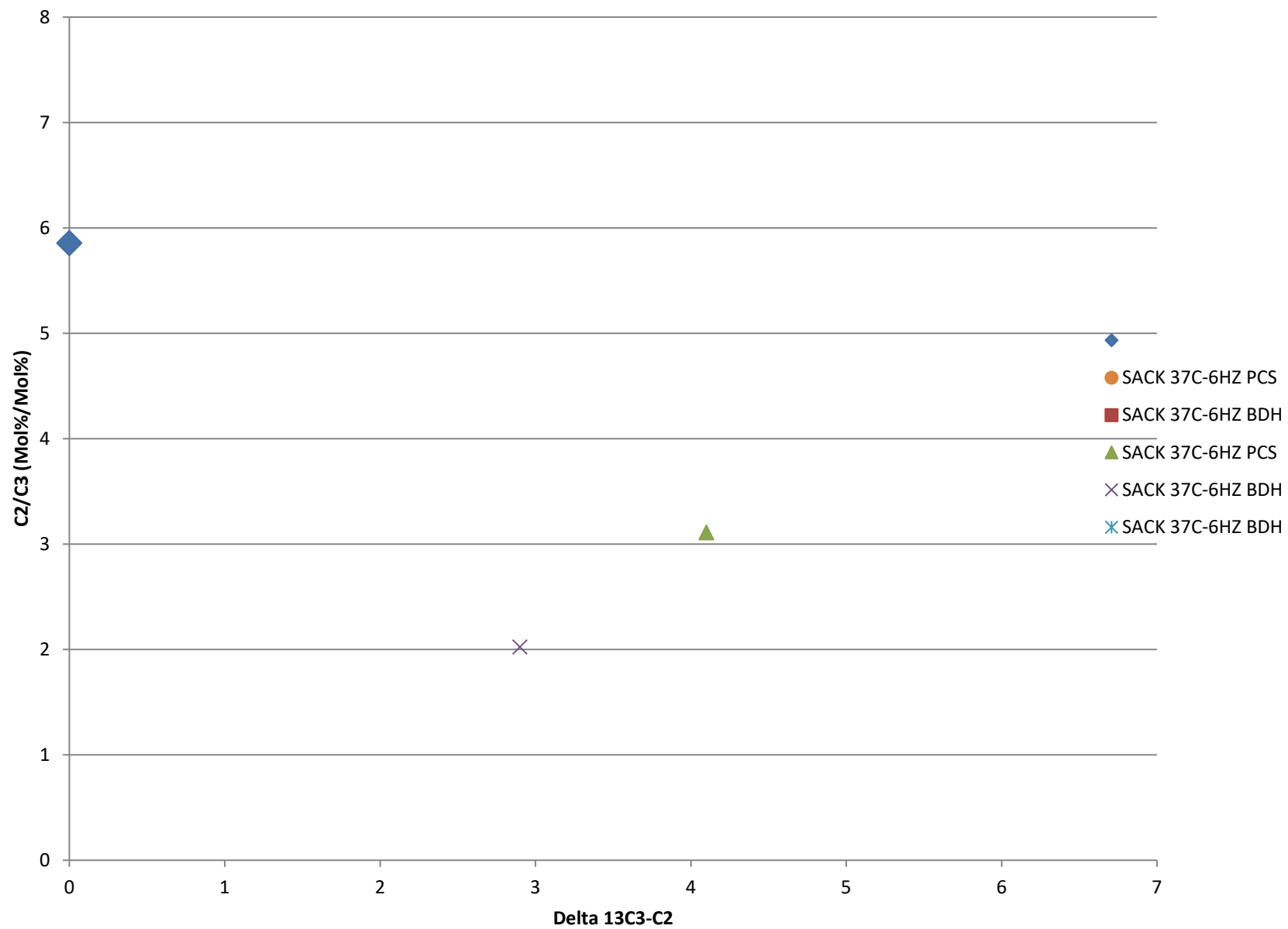


Bradenhead Test Summary





Delta13 C2/C3 vs. Delta 13C3-C2



Delta 13 IC4/ Delta NC4

