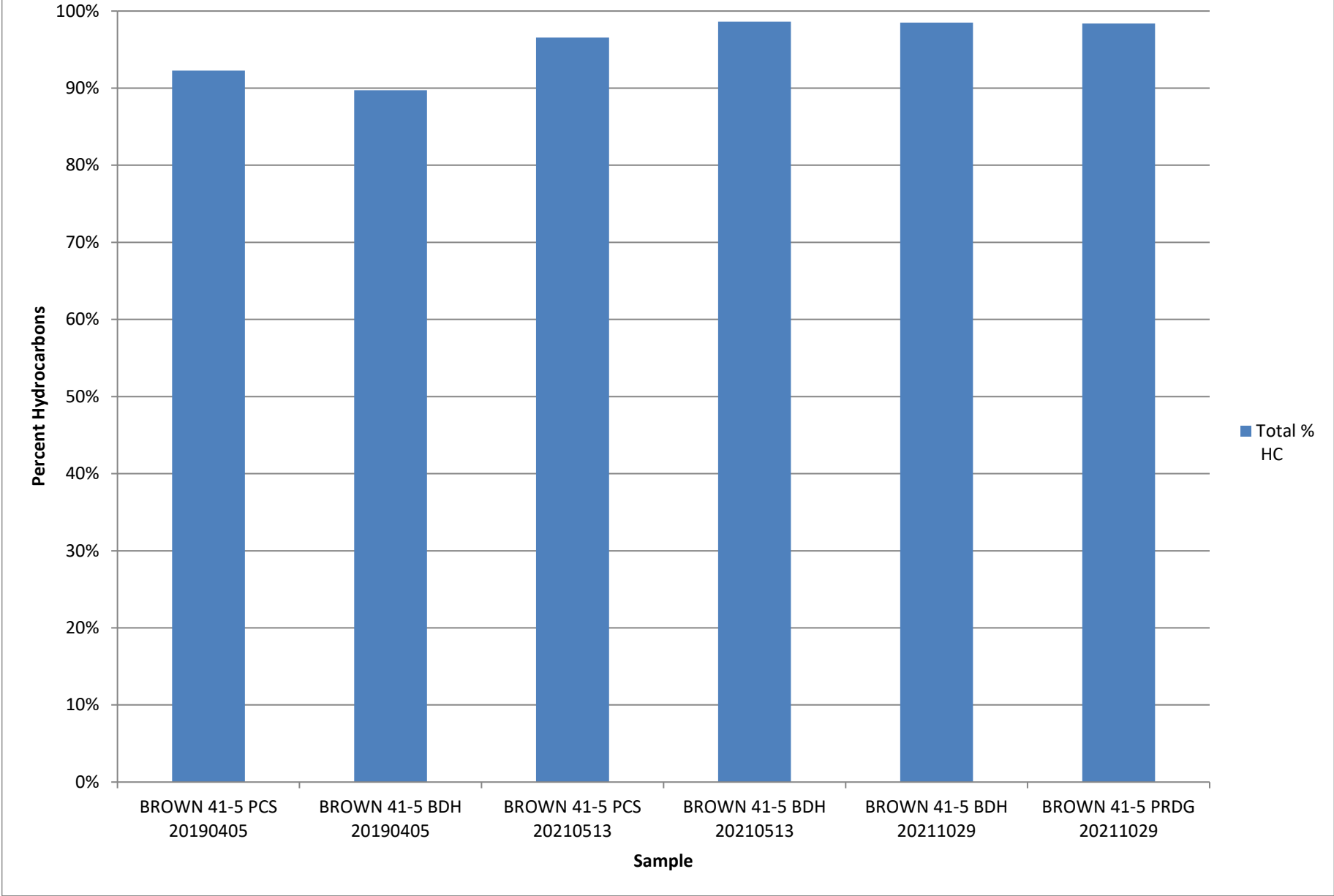
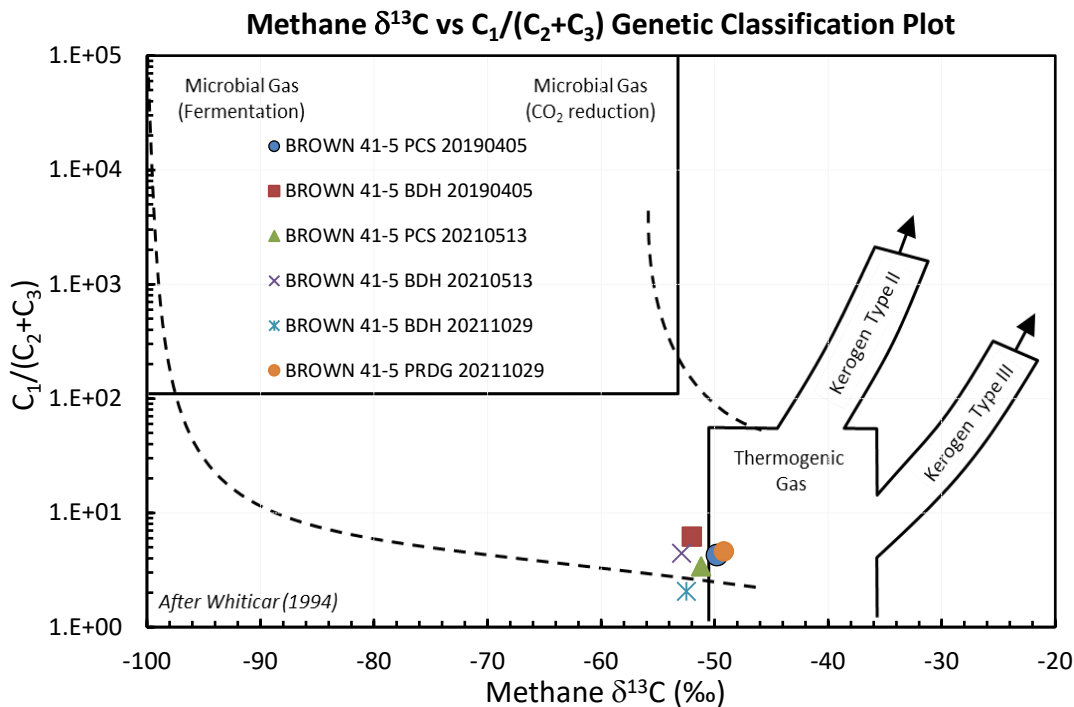
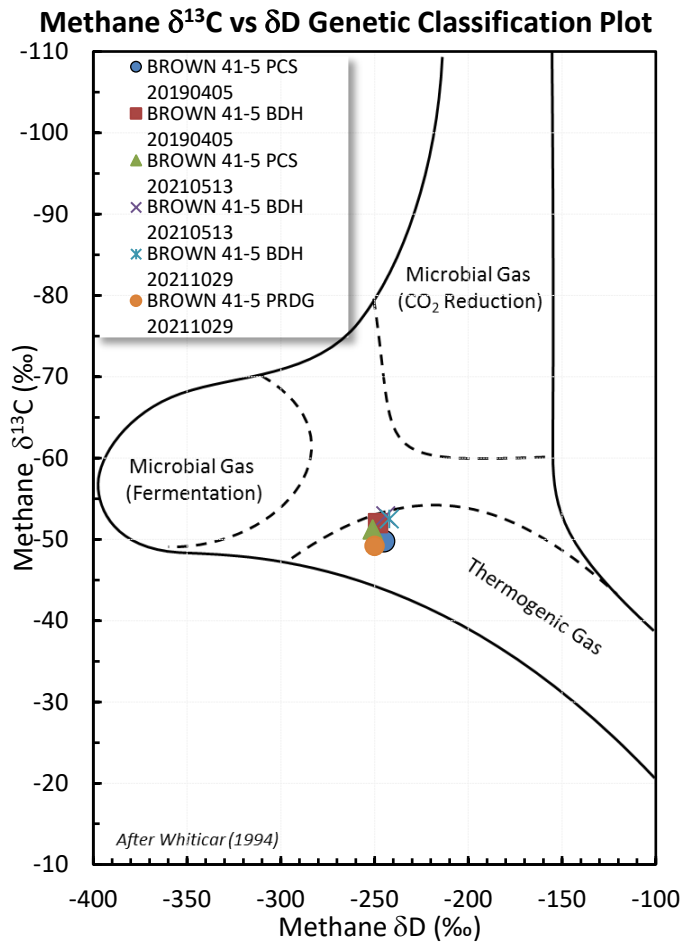
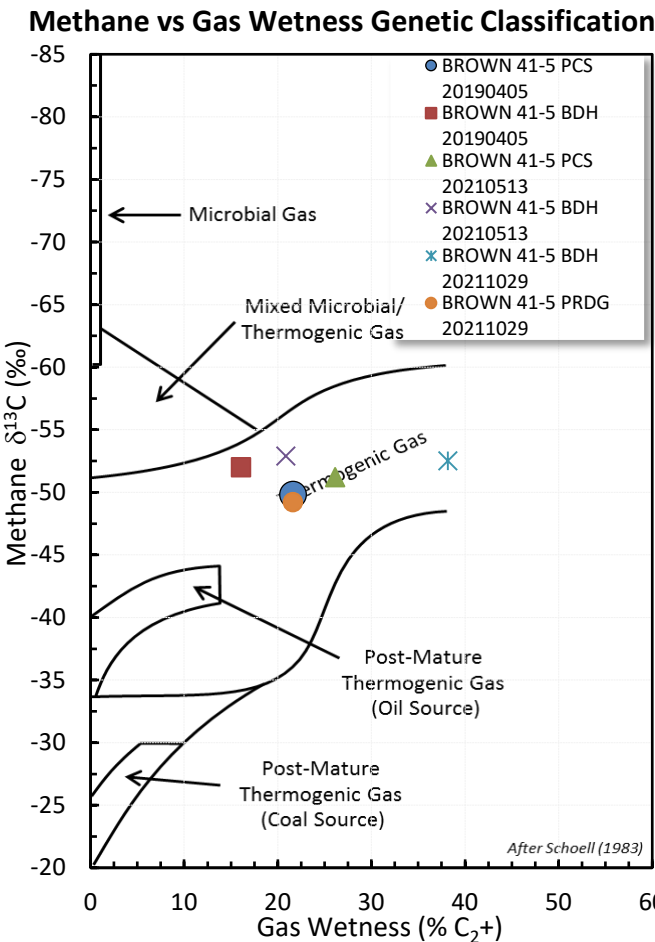


Total Percent Hydrocarbons



Stable Isotope Interpretive Plots



GAS COMPOSITION

GAS COMPOSITION (MOL %)

Parameter

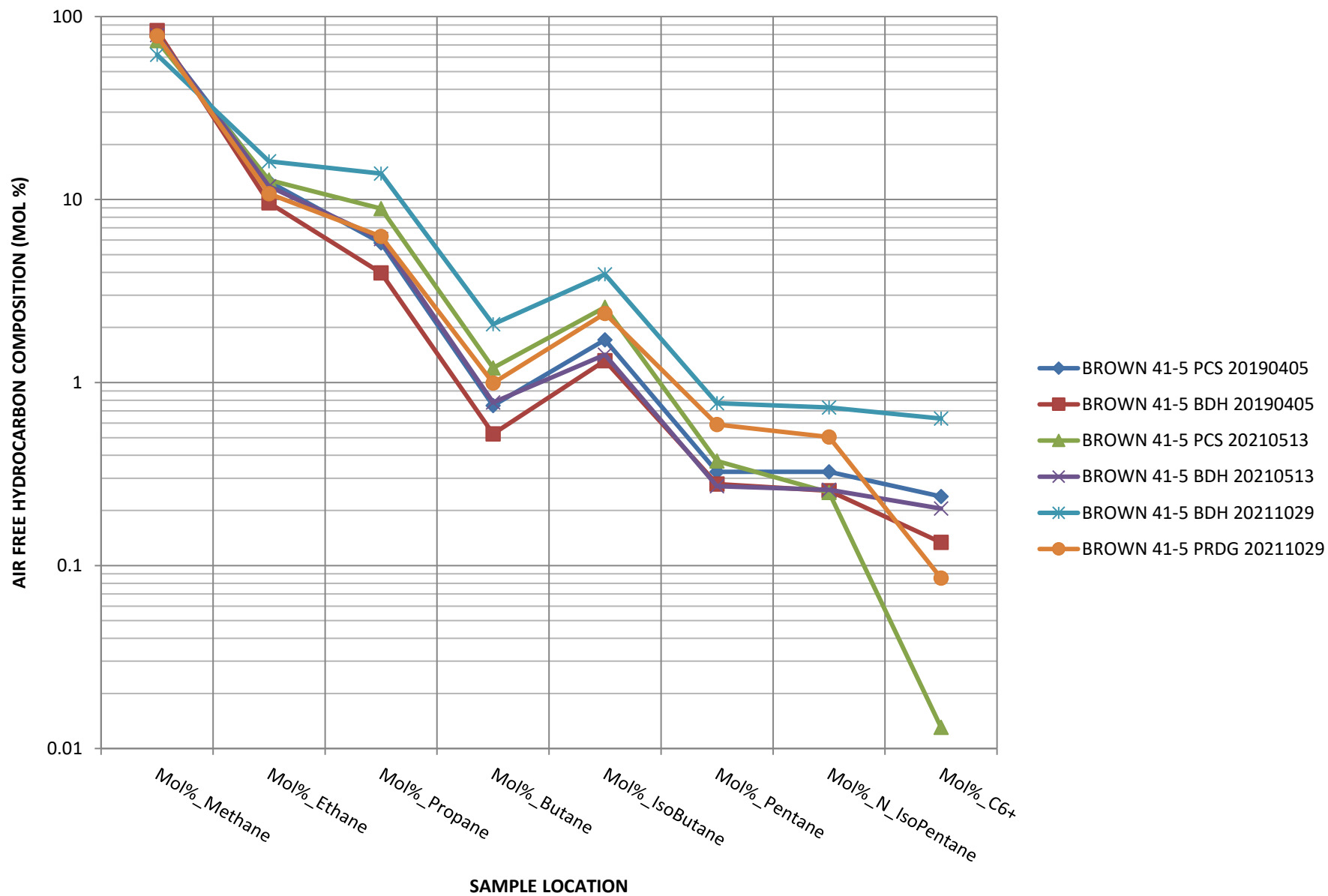
Legend:

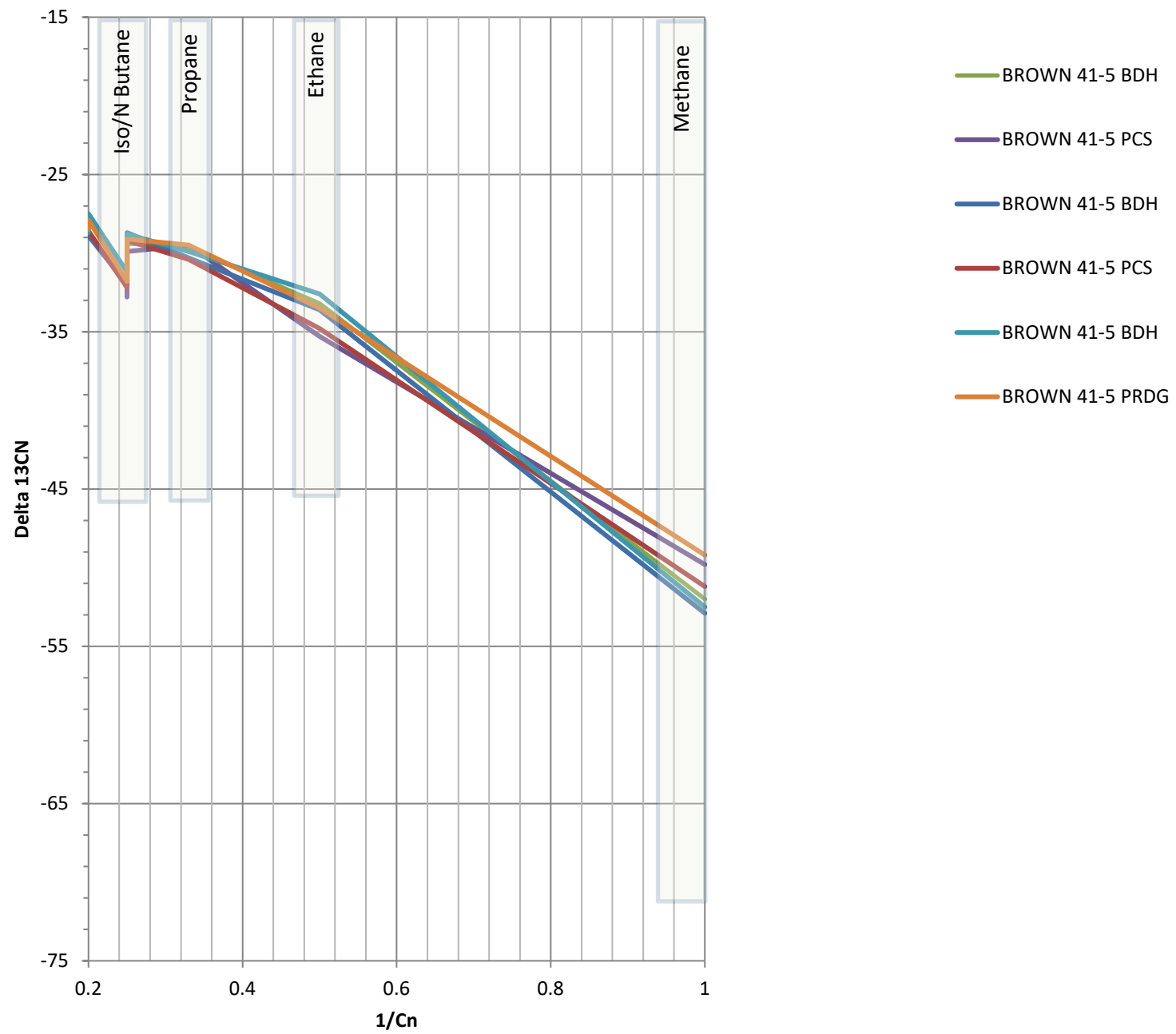
- BROWN 41-5 PCS 20190405
- BROWN 41-5 BDH 20190405
- BROWN 41-5 PCS 20210513
- BROWN 41-5 BDH 20210513
- BROWN 41-5 BDH 20211029
- BROWN 41-5 PRDG 20211029

Parameter	BROWN 41-5 PCS 20190405	BROWN 41-5 BDH 20190405	BROWN 41-5 PCS 20210513	BROWN 41-5 BDH 20210513	BROWN 41-5 BDH 20211029	BROWN 41-5 PRDG 20211029
Mol%_Nitrogen	5.0	8.5	3.5	1.2	1.5	1.0
Mol%_Oxygen	0.0001	0.0001	0.035	0.012	0.0001	0.0001
Mol%_Argon	0.0001	0.0001	0.035	0.0001	0.0001	0.0001
Mol%_O2+AR	1.2	1.3	0.0001	0.0001	0.13	0.045
Mol%_CarbonDioxide	0.0001	0.0001	0.0001	0.0001	0.0001	0.45
Mol%_CarbonMonoxide	0.0001	0.0001	0.0001	0.0001	0.0001	0.08
Mol%_Helium	0.13	0.0001	0.055	0.0001	0.0001	0.035
Mol%_hydrogen	70	70	70	75	60	75
Mol%_Methane	11	8.5	12	11	15	10
Mol%_Ethane	5.5	3.5	8.5	6.0	13	6.0
Mol%_Propane	0.7	0.5	1.1	0.8	2.0	1.0
Mol%_Butane	1.6	1.1	2.5	1.4	4.0	2.2
Mol%_IsoButane	0.3	0.25	0.4	0.25	0.8	0.6
Mol%_N_Pentane	0.3	0.22	0.25	0.25	0.7	0.5
Mol%_IsoPentane	0.22	0.12	0.012	0.2	0.6	0.08
Mol%_C6+	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

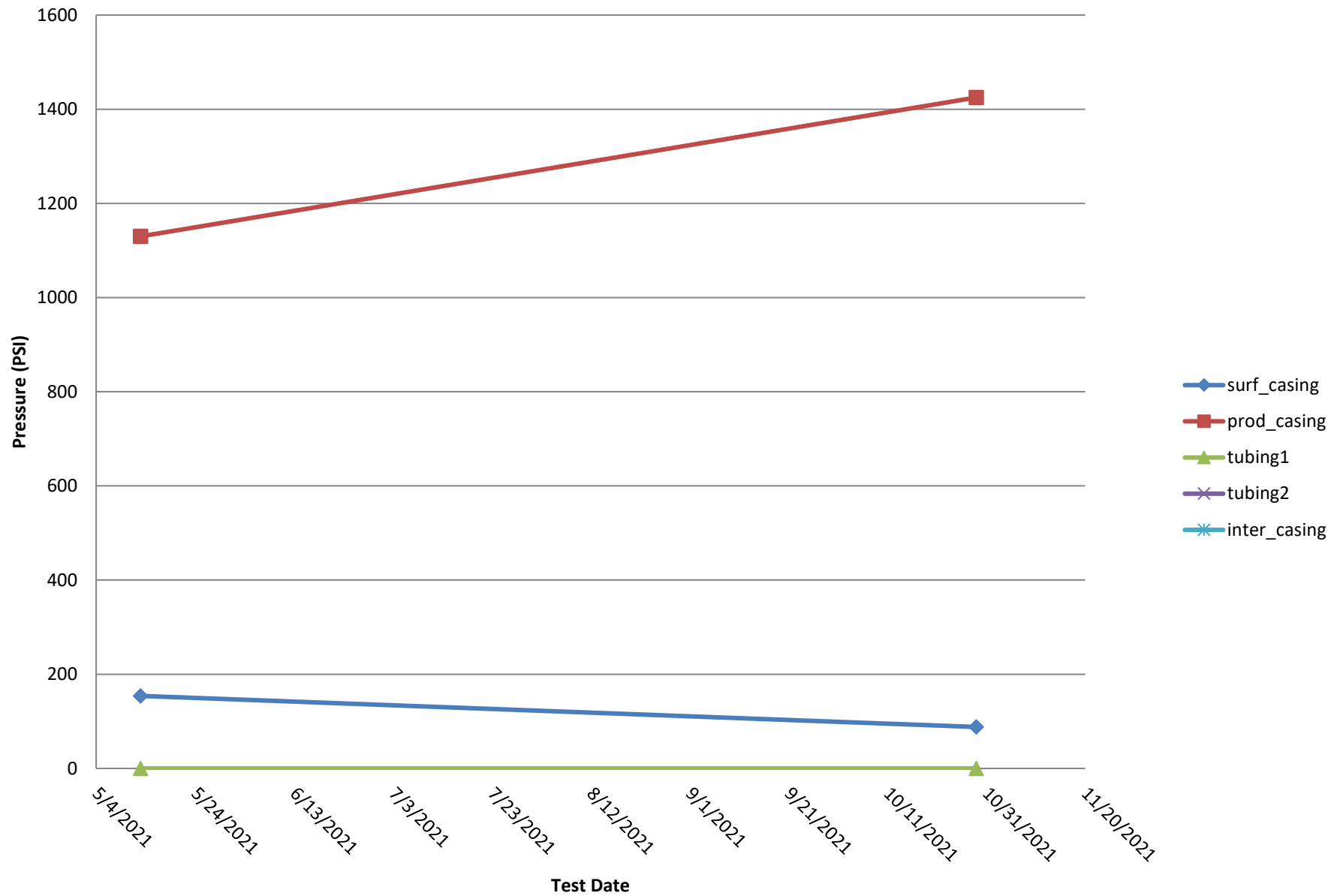
- BROWN 41-5 PCS 20190405
- BROWN 41-5 BDH 20190405
- BROWN 41-5 PCS 20210513
- BROWN 41-5 BDH 20210513
- BROWN 41-5 BDH 20211029
- BROWN 41-5 PRDG 20211029

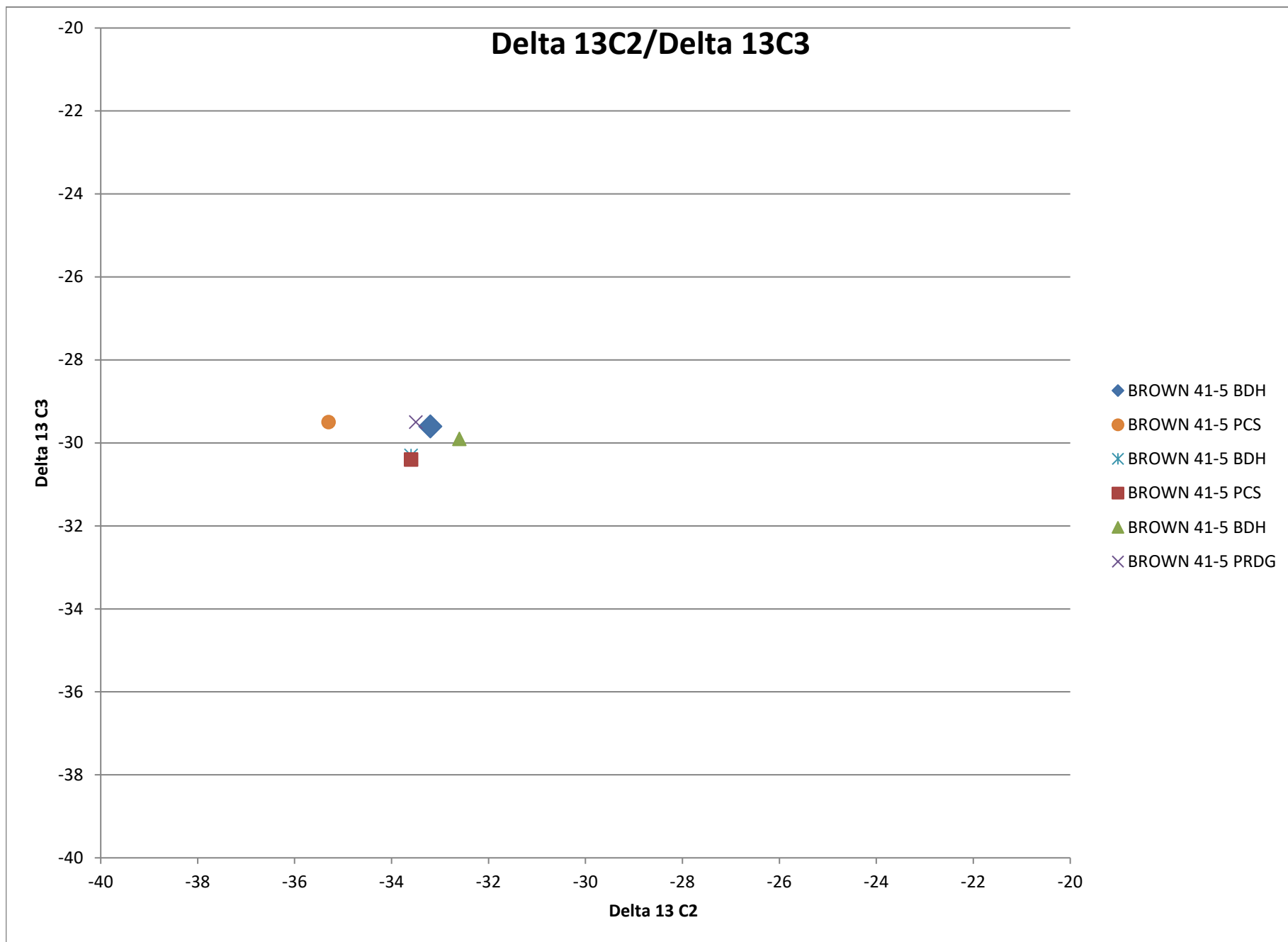
HYDROCARBON COMPOSITION



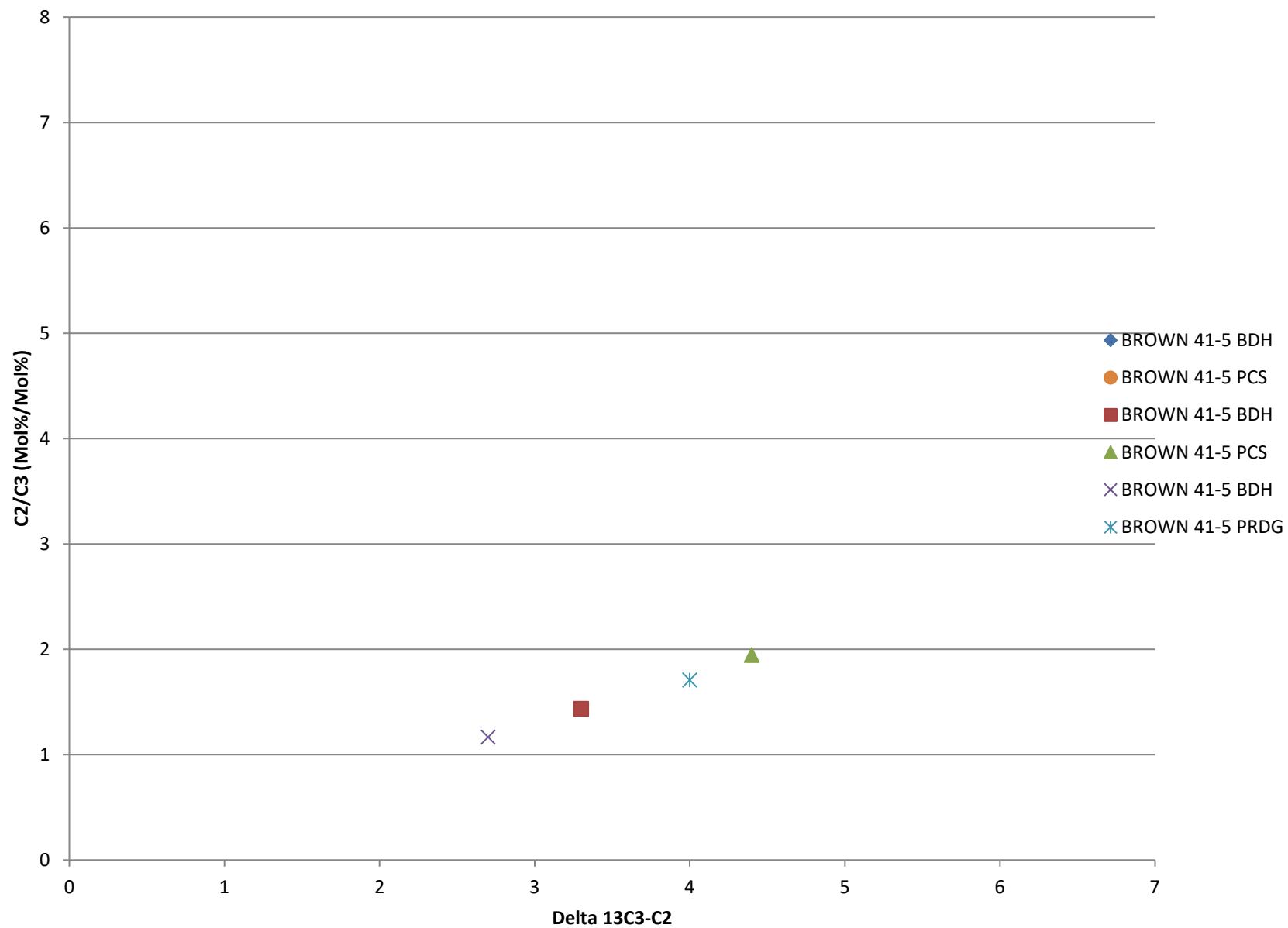


Bradenhead Test Summary





Delta13 C2/C3 vs. Delta 13C3-C2



Delta 13 IC4/ Delta NC4

