Panel 1 (left)

Lab name: SRI Instruments
Client: GeoMali
Client ID: N12760
Analysis date: 11/18/2024 15:40:51
Method: MG5+NH3
Description: FIDmeth 300C medgain
Column: MG5set+30Ubond
Carrier: C1=15C2=15C3=12 Argon
Integration: Peak sens=95.0 Base sens=60.0
Data file: GreenECD212.CHR ()
Sample: 1% C2mix+2000ppm NH3

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	6.000	20.000	90.00
90.00	7.000	10.000	170.00
170.00	2.000	0.000	170.00

Events:

Time	Event
0.000	ZERO
0.000	SOUND
0.020	E ON (Valve3-NH3)
2.200	E OFF (Valve3-NH3)
4.000	G ON (Valve1-MS5A)
4.850	G OFF (Valve1-MS5A)
14.500	F ON (Valve2-HayD)
18.000	F OFF (Valve2-HayD)

FID METH (handwritten)
1%mix +2000ppm NH3 (handwritten)

Component	Retention	Area
C2H4-FIDm-Ubond	1.776	44.7229
CH4-FIDm-MS5A	9.453	3516.9371
CO-FIDm-MS5A	13.183	3592.5763
O2+N2+CO-FIDm-HayD	15.280	2584.6040
Methane-FIDm-HayD	15.426	3499.3928
CO2-FIDm-HayD	15.843	2951.8036
C2H2+C2H4-FIDm-HayD	16.523	76.5922
C2H6-FIDm-HayD	17.010	48.4900
H2O-FIDm-MS5A	0.000	0.0000

16315.1189

Panel 2 (middle)

Lab name: SRI Instruments
Client: GeoMali
Client ID: N12760
Analysis date: 11/18/2024 15:40:51
Method: MG5+NH3
Description: PID lowgain 150C
Column: MG5set+30Ubond
Carrier: C1=15C2=15C3=12 Argon
Integration: Peak sens=80.0 Base sens=60.0
Data file: GreenECD212.chr ()
Sample: 1% C2mix+2000ppm NH3
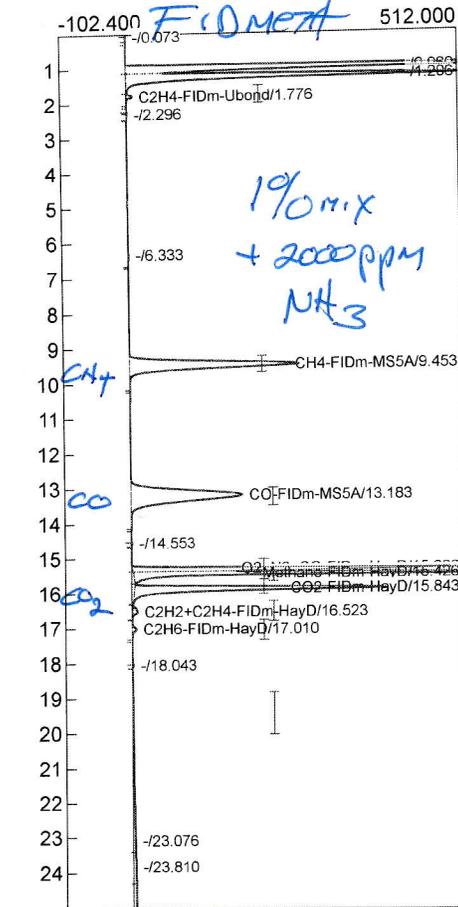
Temperature program:

Init temp   Hold   Ramp   Final temp
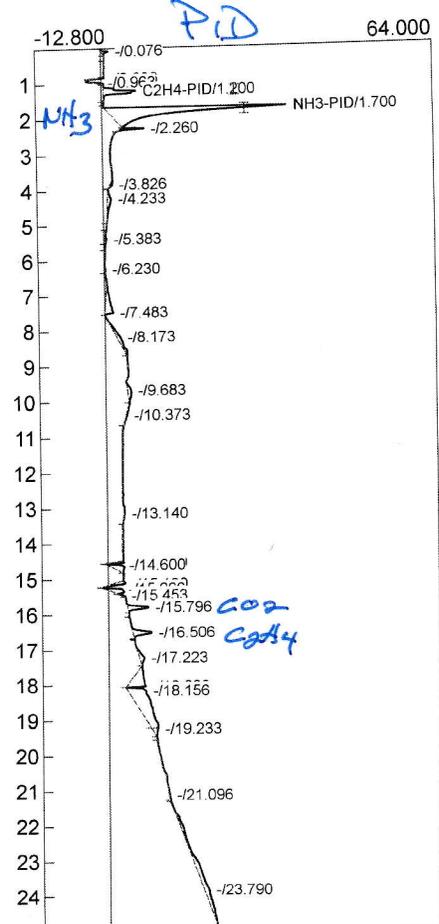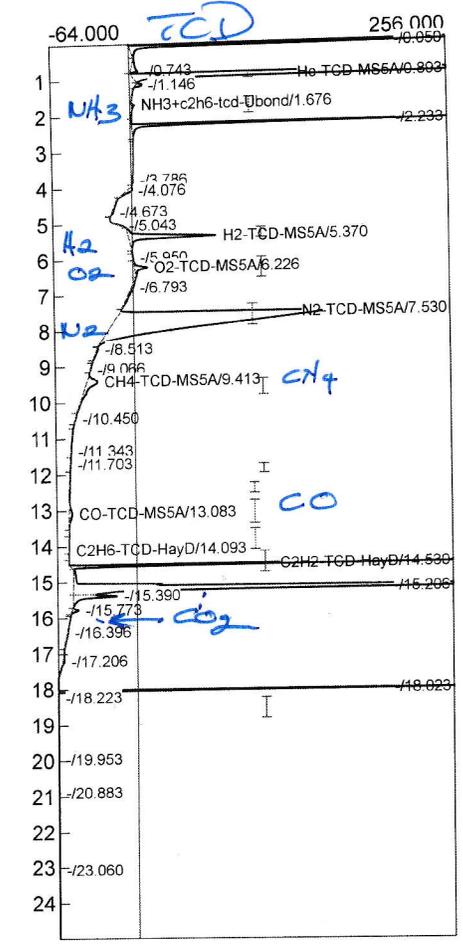
Events:

Time	Event
0.000	ZERO
1.000	INTEG BASED IMMEDIATE
2.400	INTEG BASED IMMEDIATE
3.000	INTEG BASED IMMEDIATE
15.500	INTEG BASED IMMEDIATE

Component	Retention	Area
C2H4-PID	1.200	45.1841
NH3-PID	1.700	335.5392

380.7233

Panel 3 (right)

Lab name: SRI Instruments
Client: GeoMali
Client ID: N12760
Analysis date: 11/18/2024 15:40:51
Method: MG5+NH3
Description: TCD lowcurrent 100C
Column: MG5set+30Ubond
Carrier: C1=15C2=15C3=12 Argon
Integration: Peak sens=80.0 Base sens=60.0
Data file: SmartCh3-124.CHR ()
Sample: 1% C2mix+2000ppm NH3

Temperature program:

Init temp   Hold   Ramp   Final temp

Events:

Time	Event
0.000	ZERO
5.100	INTEG BASED IMMEDIATE
6.500	INTEG BASED IMMEDIATE

Component	Retention	Area
He-TCD-MS5A	0.893	3853.8497
NH3+c2h6-tcd-Ubond	1.676	15.3719
H2-TCD-MS5A	5.370	447.7428
O2-TCD-MS5A	6.226	76.5013
N2-TCD-MS5A	7.530	4001.8102
CH4-TCD-MS5A	9.413	160.9771
CH4-TCD-HayD	0.000	0.0000
CO2-TCD-HayD	0.000	0.0000
CO-TCD-MS5A	13.083	43.8253
C2H6-TCD-HayD	14.093	1.1866
C2H2-TCD-HayD	14.530	786.4772
C2H4-TCD-HayD	0.000	0.0000

9387.7421

Temperature program:

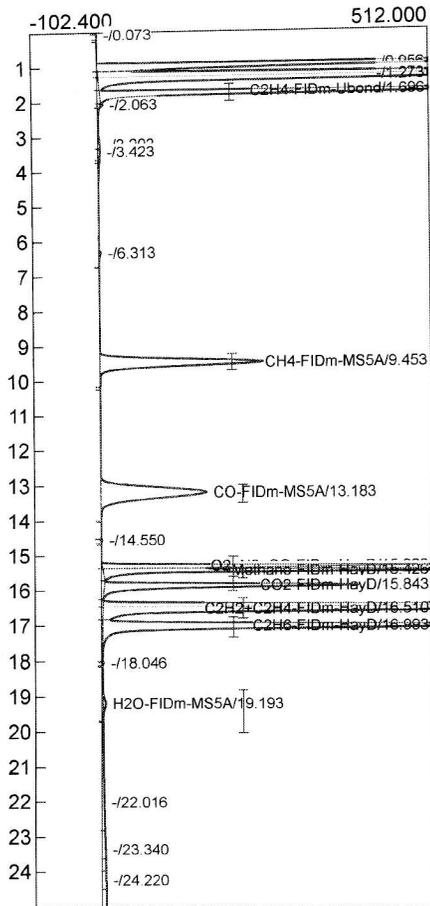| Init temp	Hold	Ramp	Final temp
50.00	6.000	20.000	90.00
90.00	7.000	10.000	170.00
170.00	2.000	0.000	170.00

Events:

Time	Event
0.000	ZERO
0.000	SOUND
0.020	E ON (PurgeGas)
2.000	E OFF (PurgeGas)
4.000	G ON (Valve1Rotate)
4.850	G OFF (Valve1Rotate)
14.500	F ON (Valve2)
18.000	F OFF (Valve2)

Component	Retention	Area
C2H4-FIDm-Ubond	1.696	6399.0354
CH4-FIDm-MS5A	9.453	3376.5080
CO-FIDm-MS5A	13.183	3394.1434
O2+N2+CO-FIDm-HayD	15.283	2585.7999
Methane-FIDm-HayD	15.426	3548.0586
CO2-FIDm-HayD	15.843	2959.1295
C2H2+C2H4-FIDm-HayD	16.510	6830.9800
C2H6-FIDm-HayD	16.993	6095.9413
H2O-FIDm-MS5A	19.193	86.3885

35275.9846

Temperature program:

Init temp   Hold   Ramp   Final temp

Events:

Time	Event
0.000	ZERO
1.000	INTEG BASED IMMEDIATE
2.400	INTEG BASED IMMEDIATE
3.000	INTEG BASED IMMEDIATE
15.500	INTEG BASED IMMEDIATE

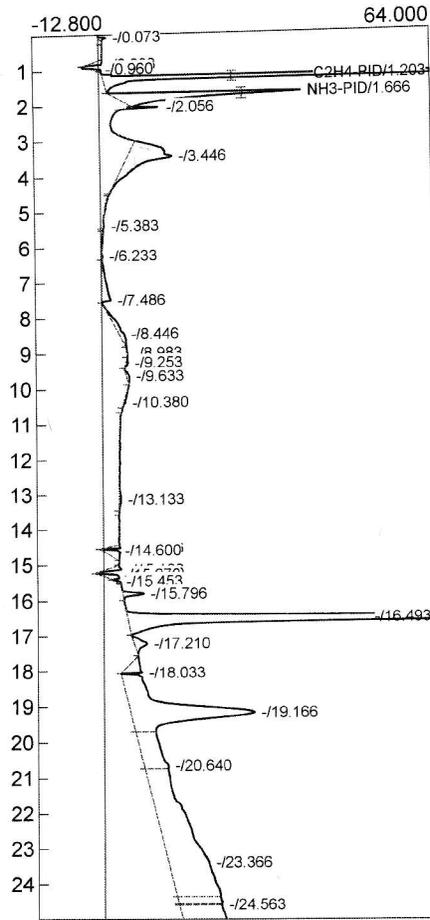| Component	Retention	Area
C2H4-PID	1.203	1136.0428
NH3-PID	1.666	314.8346

1450.8774

Temperature program:

Init temp   Hold   Ramp   Final temp

Events:

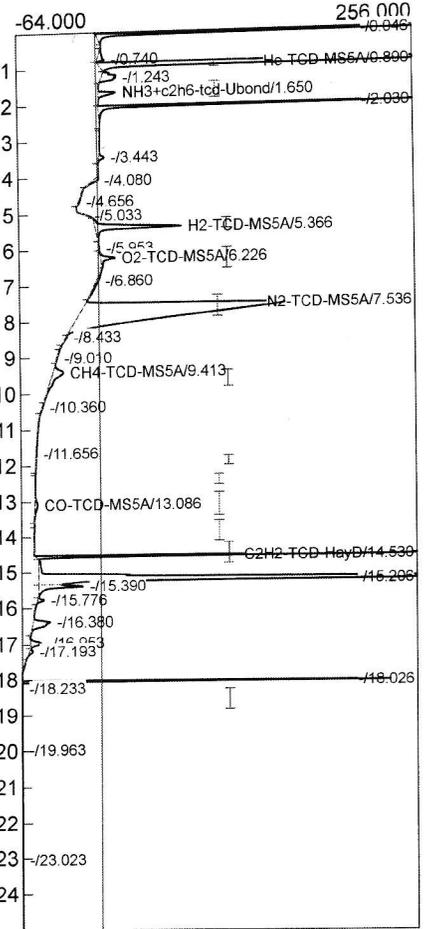| Time	Event
0.000	ZERO
5.100	INTEG BASED IMMEDIATE
6.500	INTEG BASED IMMEDIATE

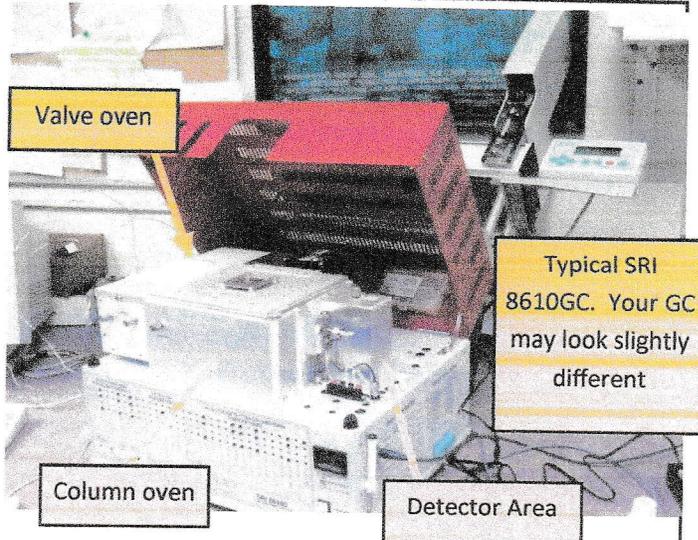| Component	Retention	Area
He-TCD-MS5A	0.890	3750.2127
NH3+c2h6-tcd-Ubond	1.650	88.2252
H2-TCD-MS5A	5.366	439.4892
O2-TCD-MS5A	6.226	81.7968
N2-TCD-MS5A	7.536	3846.4332
CH4-TCD-MS5A	9.413	160.3166
CH4-TCD-HayD	0.000	0.0000
CO2-TCD-HayD	0.000	0.0000
CO-TCD-MS5A	13.086	39.7854
C2H6-TCD-HayD	0.000	0.0000
C2H2-TCD-HayD	14.530	779.1406
C2H4-TCD-HayD	0.000	0.0000

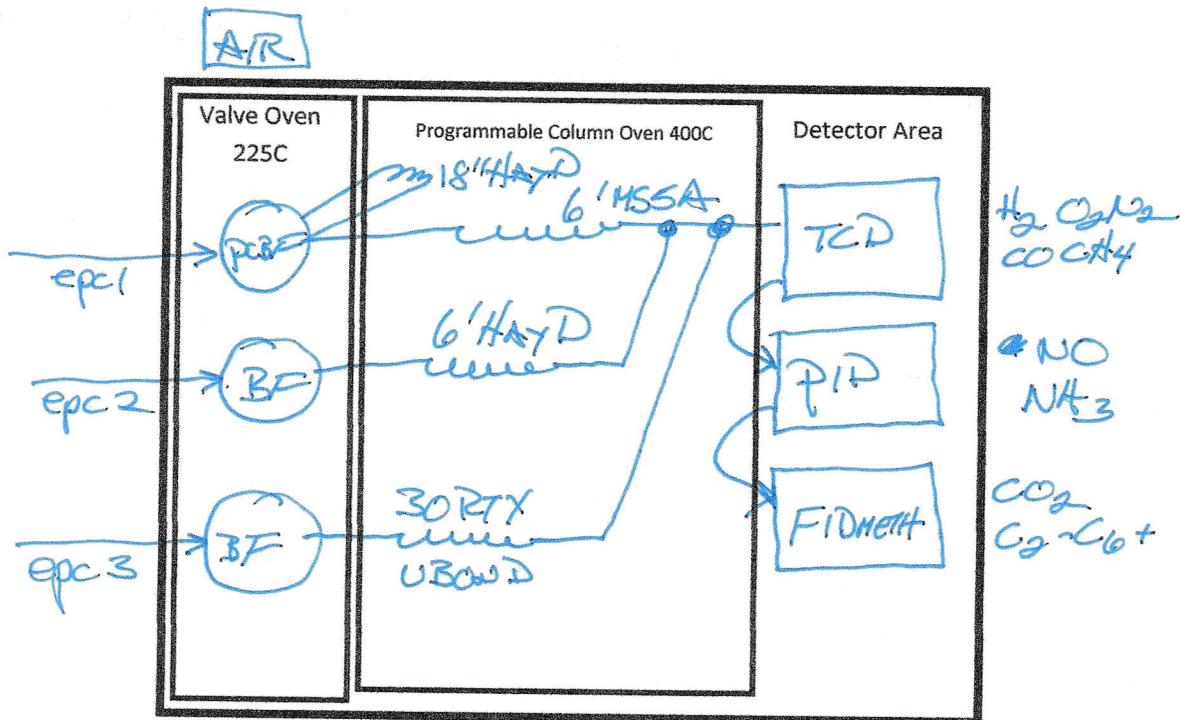9185.3997

Custom GC configuration for _Michael Alexander_

_____9-26_____ 2024

A custom GC was configured for your application:

Describe application:

MG5 + NO + NH3

Valve oven

Typical SRI 8610GC. Your GC may look slightly different

Column oven

Detector Area

Schematic drawing of proposed GC

AIR

| Valve Oven 225C | Programmable Column Oven 400C | Detector Area |

epc1 → PCBF → 18" HAYD, 6' MSSA → TCD → H_2 O_2 N_2 CO CH_4

epc2 → BF → 6' HAYD → PID → #NO NH_3

epc3 → BF → 30 RTX UBOND → FID METH → CO_2 C_2–C_6+