

Lab name: SRI Instruments
 Client: SRI Final Test/UConn
 Client ID: N12245
 Method: Greenhouse+2ndValve/FIDm
 Description: FIDmeth medain 300C
 Column: 6'Shincarbon+3' coppertube
 Carrier: N2@30psi
 Integration: Peak sens=90.0 Base sens= 1.0 Min area= 0.10 Standard=100
 Data file: AlanTest87.CHR ()
 Sample: room air

Lab name: SRI Instruments
 Client: SRI Final Test/UConn
 Client ID: N12245
 Method: Greenhouse+2ndValve/FIDm
 Description: ECD 200C SC=400
 Column: GG set of HayD
 Carrier: P5@30psi
 Integration: Peak sens=70.0 Base sens=60.0 Min area= 10.00 Standard=10
 Data file: MandelTCD187.chr ()
 Sample: room air

Temperature program:

Init temp	Hold	Ramp	Final temp
100.00	10.000	0.000	100.00

Events:

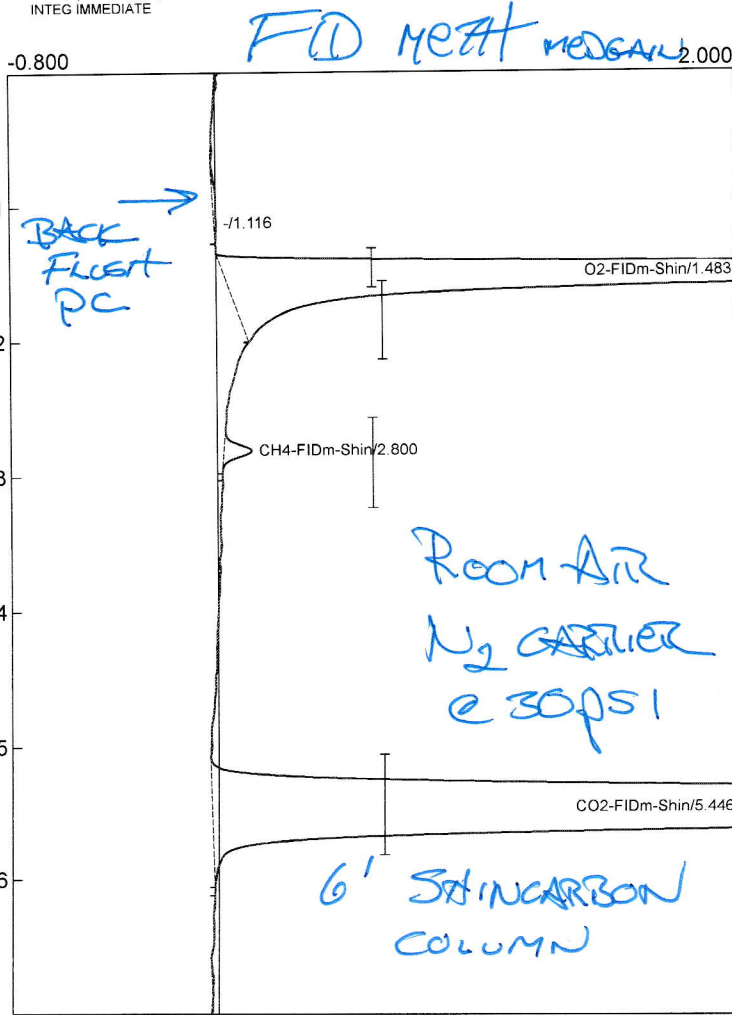
Time	Event
0.000	ZERO
0.020	G ON (Valve1MS5A)
0.040	F ON (Valve2HaysepD)
0.700	F OFF (Valve2HaysepD)
1.750	G OFF (Valve1MS5A)
2.000	INTEG IMMEDIATE

Temperature program:

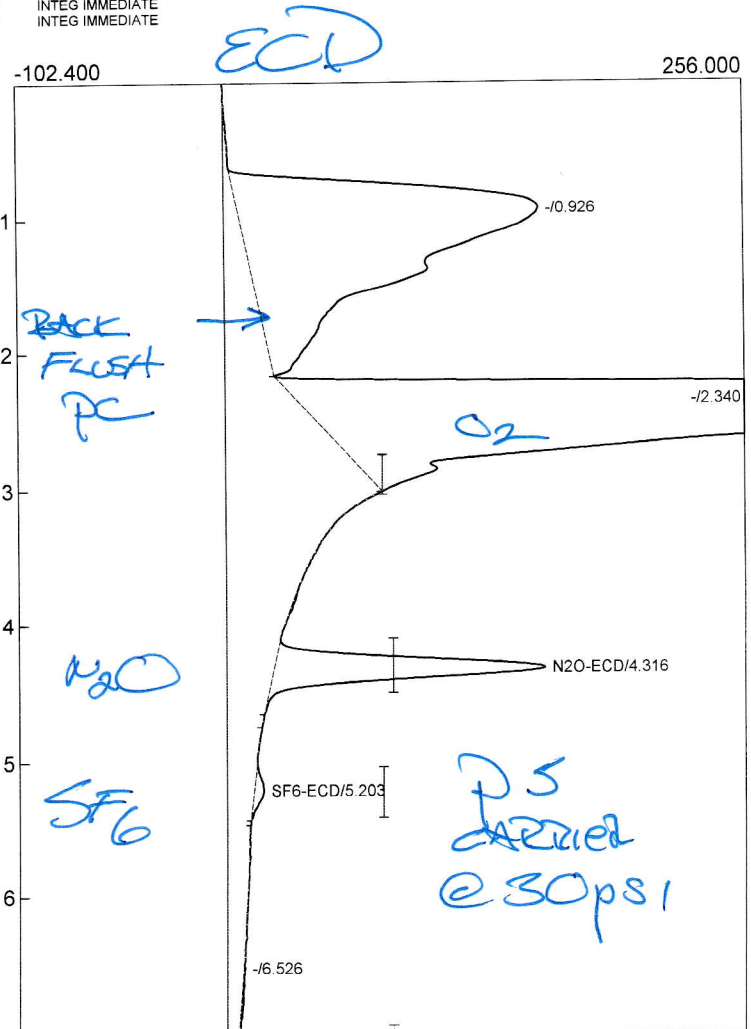
Init temp	Hold	Ramp	Final temp
100.00	10.000	0.000	100.00

Events:

Time	Event
0.000	ZERO
0.500	INTEG IMMEDIATE
3.000	INTEG IMMEDIATE



Component	Retention	Area
O2-FIDm-Shin	1.483	61.4740
CO-FIDm-Shin	0.000	0.0000
CH4-FIDm-Shin	2.800	0.7122
CO2-FIDm-Shin	5.446	155.6454
		217.8316



Component	Retention	Area
CO2-ECD-HayD	0.000	0.0000
N2O-ECD	4.316	1300.0013
SF6-ECD	5.203	61.8156
Water-ECD	0.000	0.0000
		1361.8169

BEST SENSITIVITY
 TO CH₄ + N₂O
 N₂ CARRIER FOR FID
 P5 CARRIER FOR ECD

Lab name: SRI Instruments
 Client: SRI Final Test/UConn
 Client ID: N12245
 Method: Greenhouse+2ndValve/FIDm
 Description: FIDmeth medain 300C
 Column: 6'Shincarbon+3' coppertube
 Carrier: H2@10psi
 Integration: Peak sens=90.0 Base sens= 1.0 Min area= 0.10 Standard=100
 Data file: AlanTest78.CHR ()
 Sample: room air

Lab name: SRI Instruments
 Client: SRI Final Test/UConn
 Client ID: N12245
 Method: Greenhouse+2ndValve/FIDm
 Description: ECD 200C SC=400
 Column: GG set of HayD
 Carrier: P5@30psi
 Integration: Peak sens=70.0 Base sens=60.0 Min area= 10.00 Standard=10
 Data file: MandelTCD178.chr ()
 Sample: room air

Temperature program:

Init temp	Hold	Ramp	Final temp
100.00	10.000	0.000	100.00

Events:

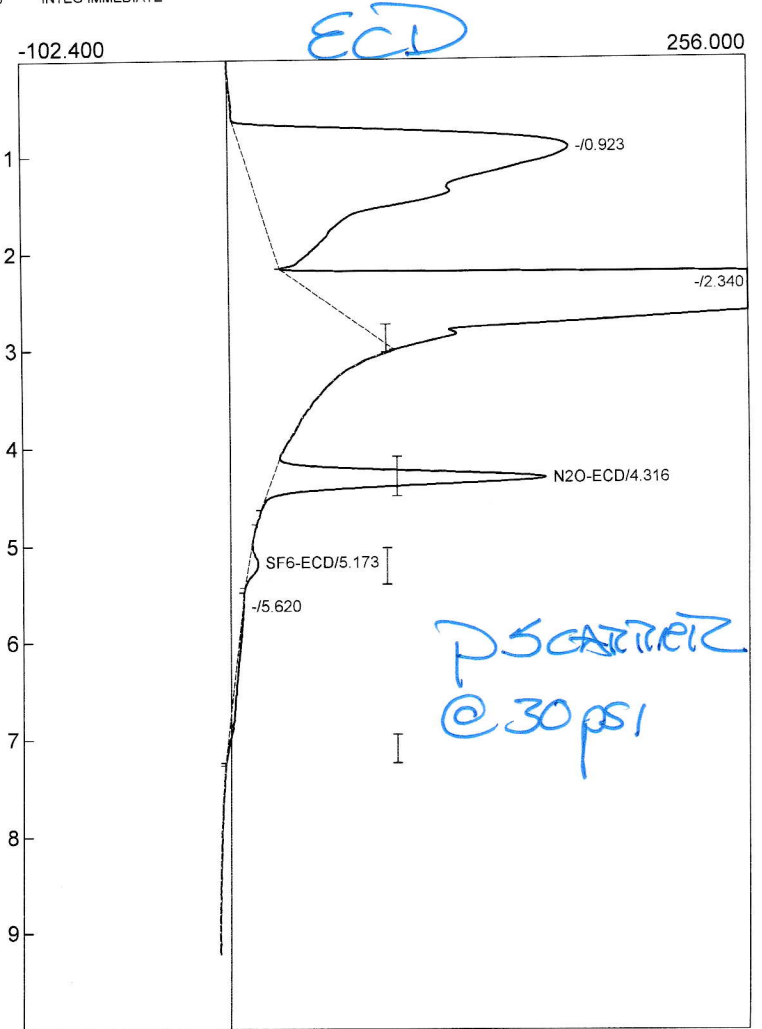
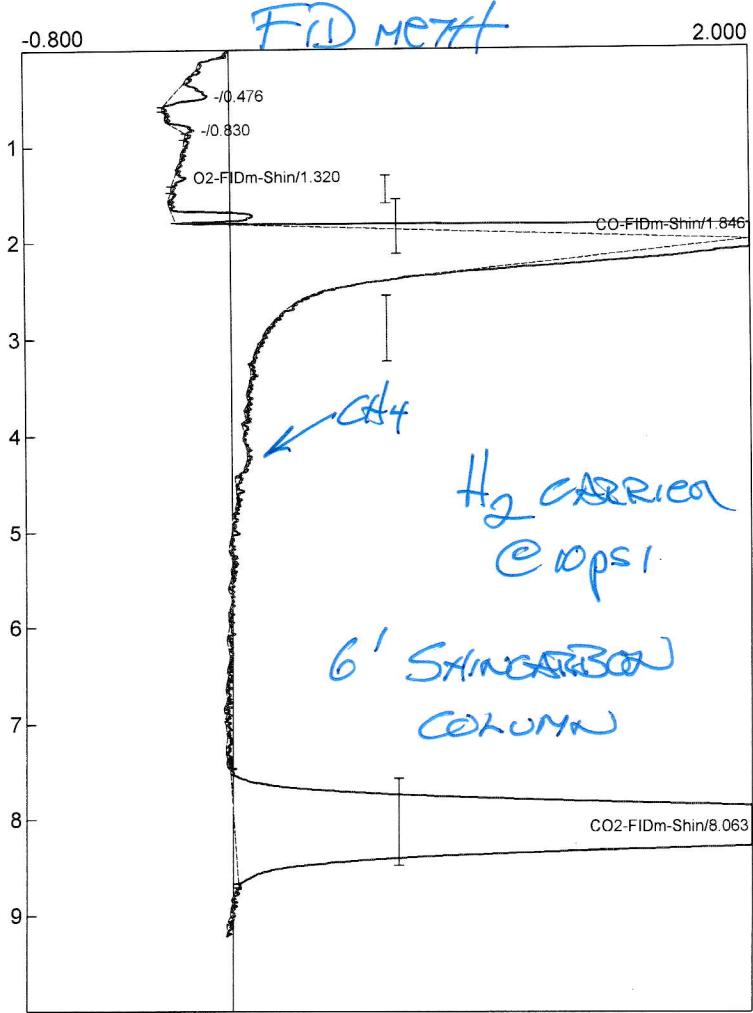
Time	Event
0.000	ZERO
0.020	G ON (Valve1MS5A)
0.040	F ON (Valve2HaysepD)
0.700	F OFF (Valve2HaysepD)
1.750	G OFF (Valve1MS5A)
2.000	INTEG IMMEDIATE

Temperature program:

Init temp	Hold	Ramp	Final temp
100.00	10.000	0.000	100.00

Events:

Time	Event
0.000	ZERO
0.500	INTEG IMMEDIATE
3.000	INTEG IMMEDIATE



Component	Retention	Area
O2-FIDm-Shin	1.320	0.1752
CO-FIDm-Shin	1.846	13.1983
CH4-FIDm-Shin	0.000	0.0000
CO2-FIDm-Shin	8.063	111.1206
		124.4941

Component	Retention	Area
CO2-ECD-HayD	0.000	0.0000
N2O-ECD	4.316	1312.6698
SF6-ECD	5.173	64.6160
Water-ECD	0.000	0.0000
		1377.2858

CH4 SENSITIVITY
 NOT AS GOOD AS
 WITH N2 CARRIER

Lab name: SRI Instruments
 Client: SRI Final Test/UConn
 Client ID: N12245
 Method: Greenhouse+2ndValve/FIDm
 Description: FIDmeth medain 300C
 Column: 6'Shincarbon+3' coppertube
 Carrier: N2@30psi
 Integration: Peak sens=90.0 Base sens= 1.0 Min area= 0.10 Standard=100
 Data file: AlanTest48.CHR ()
 Sample: room air

Lab name: SRI Instruments
 Client: SRI Final Test/UConn
 Client ID: N12245
 Method: Greenhouse+2ndValve/FIDm
 Description: ECD 200C SC=400
 Column: 6'Shincarbon+3' coppertube
 Carrier: N2@30psi
 Integration: Peak sens=70.0 Base sens=60.0 Min area= 10.00 Standard=10
 Data file: MandelTCD148.chr ()
 Sample: room air

Temperature program:

Init temp	Hold	Ramp	Final temp
100.00	10.000	0.000	100.00

Events:

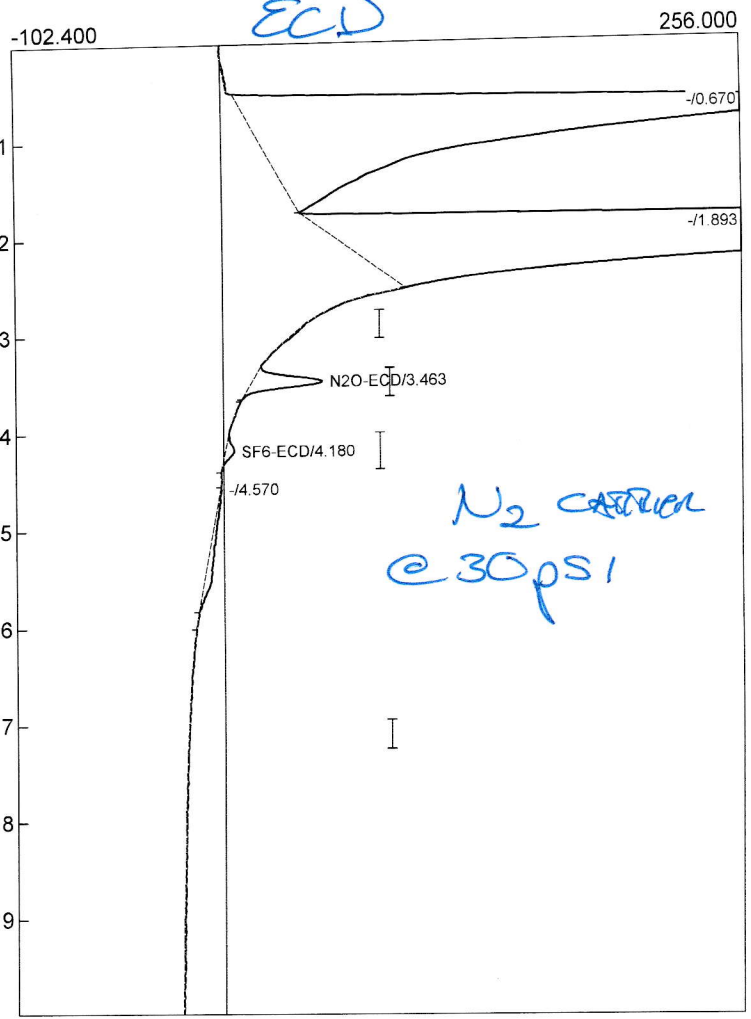
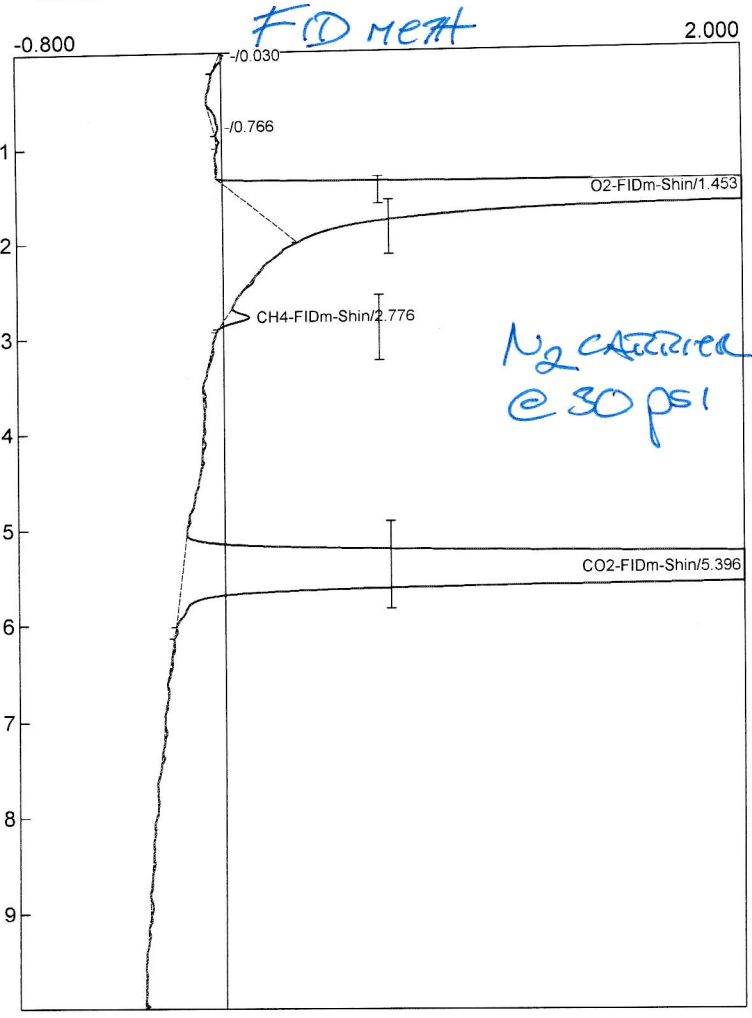
Time	Event
0.000	ZERO
0.020	G ON (Valve1MS5A)
0.040	F ON (Valve2HaysepD)
0.700	F OFF (Valve2HaysepD)
1.750	G OFF (Valve1MS5A)
2.000	INTEG IMMEDIATE

Temperature program:

Init temp	Hold	Ramp	Final temp
100.00	10.000	0.000	100.00

Events:

Time	Event
0.000	ZERO
0.500	INTEG IMMEDIATE
3.000	INTEG IMMEDIATE



Component	Retention	Area	Internal	Units
O2-FIDm-Shin	1.453	170.8306	570.8840	ppm
CO-FIDm-Shin	0.000	0.0000	0.0000	ppm
CH4-FIDm-Shin	2.776	0.5565	1.5582	ppm
CO2-FIDm-Shin	5.396	147.6417	579.0688	ppm
		319.0288	1151.5110	

Component	Retention	Area	Internal	Units
CO2-ECD-HayD	0.000	0.0000	0.0000	ppm
N2O-ECD	3.463	271.6285	947.5124	ppm
SF6-ECD	4.180	42.7714	149.1980	ppm
Water-ECD	0.000	0.0000	0.0000	ppm
		314.3999	1096.7104	

*N₂ CARRIER FOR BOTH
 ECD + FID meth*

N₂O Reproducibility 4-29-22

MandeITCD161.chr "Water-ECD"	4/29/2022 0.0000	11:09:20	"CO2-ECD-HayD"	0.000	CHZ "N2O-ECD"	0.0000	4.320	1254.5447	"SF6-ECD"	5.200	57.1759
MandeITCD162.chr "Water-ECD"	4/29/2022 0.0000	11:19:26	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.313	1254.4597	"SF6-ECD"	5.190	60.4020
MandeITCD163.chr "Water-ECD"	4/29/2022 0.0000	11:29:32	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.313	1264.0438	"SF6-ECD"	5.186	56.3104
MandeITCD164.chr "Water-ECD"	4/29/2022 0.0000	11:39:38	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1228.3914	"SF6-ECD"	5.190	59.2812
MandeITCD165.chr "Water-ECD"	4/29/2022 0.0000	11:49:44	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1279.3902	"SF6-ECD"	5.180	57.1279
MandeITCD166.chr "Water-ECD"	4/29/2022 0.0000	11:59:50	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1294.8537	"SF6-ECD"	5.180	57.8532
MandeITCD167.chr "Water-ECD"	4/29/2022 0.0000	12:09:56	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.313	1258.1724	"SF6-ECD"	5.203	62.3794
MandeITCD168.chr "Water-ECD"	4/29/2022 0.0000	12:20:02	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1231.2638	"SF6-ECD"	5.176	55.0162
MandeITCD169.chr "Water-ECD"	4/29/2022 0.0000	12:30:09	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.313	1275.3192	"SF6-ECD"	5.200	63.4946
MandeITCD170.chr "Water-ECD"	4/29/2022 0.0000	12:40:15	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1301.4758	"SF6-ECD"	5.186	62.9522
MandeITCD171.chr "Water-ECD"	4/29/2022 0.0000	12:50:21	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1295.5469	"SF6-ECD"	5.193	56.8310
MandeITCD172.chr "Water-ECD"	4/29/2022 0.0000	13:00:27	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.313	1306.5149	"SF6-ECD"	5.190	59.2234
MandeITCD173.chr "Water-ECD"	4/29/2022 0.0000	13:10:33	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.313	1304.6491	"SF6-ECD"	5.186	60.5481
MandeITCD174.chr "Water-ECD"	4/29/2022 0.0000	13:20:39	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1305.1741	"SF6-ECD"	5.180	63.7468
MandeITCD175.chr "Water-ECD"	4/29/2022 0.0000	13:30:45	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1274.0696	"SF6-ECD"	5.193	63.5626
MandeITCD176.chr "Water-ECD"	4/29/2022 0.0000	13:40:51	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1259.2552	"SF6-ECD"	5.196	60.4334
MandeITCD177.chr "Water-ECD"	4/29/2022 0.0000	13:50:57	"CO2-ECD-HayD"	0.000	"N2O-ECD"	0.0000	4.316	1281.5854	"SF6-ECD"	5.183	61.3710

LAST 7 RUNS

*$\bar{x} = 1289.54$
 $SD = 18.3$
 $\%RSD = 1.41\%$*