AIRLOGICS
AIR MONITORING SYSTEMS

NOVATEST

POWER OPTIONS:
Rechargable batteries

Compact Gas Chromatograph For Efficient VOC Analysis

About AirLogics, LLC

AirLogics occupies a unique place in the environmental consulting and air monitoring sector. Our company was formed from a top-tier environmental consultancy that was trying to help a client manage their risk on a remediation site. In developing a solution to reduce their risk, an innovative and patented air monitoring system was born. From there, a company was built around that system. What evolved was a company that appears to be a rental equipment company, but functions like and has the sensibilities of a professional consulting firm, including the professional staff, expertise, and attention to solving our clients problems. We are proud of the position that AirLogics occupies in the environmental and air monitoring space.

The AirLogics Advantage

The primary advantages of AirLogics over traditional rental equipment providers are:

Professional Services

Our degreed and licensed professionals are scientists, engineers, and consultants with subject matter experience who can help you better achieve your site management goals. From planning to execution to post-mobilization reporting, AirLogics can assist you reduce your risk.

State-of-the-Art Industry Leader

Whether its developing our own systems or acquiring systems and sensors made by others, AirLogics is continually investing in state-of-the-art technology.

Real-time

Numerous stakeholders can benefit from actionable, real-time data. Real-time management of ambient air quality, rather than passive measurement and retrospective documentation, helps users immediately identify potential emissions and begin corrective action.

NOVATEST

COMPACT SIZE
The NovaTest P100 is only 36 x 30 x 15 cm and 7 kg, but it integrates the auto-sampling unit, carrier gas system, separation unit, detection unit and a rechargeable battery within a single system.

7 kg

CONVENIENT ACCESSORIES
The sampling needle, disposable filters and sampling tube are provided for versatile on-site sampling approaches, and a carrying case for the P100 and all the accessories further improves the mobility.

NOVATEST

About

A new tool for vapor intrusion and soil gas investigations

AirLogics new field Gas Chromatograph (GC) features:

- Rapid, real-time data collection of potentially up to 100 of sample/day
- Lightweight and portable
- Reliable and accurate field screening tool for Volatile Organic Compounds (VOCs), including chlorinated solvents and BTEX

How it works:

1. AirLogics provides the field GC and a technician to assist your team collect the samples.

2. Real-time data provided in-field via tablet

3. GC equipped with 5-hour on board battery, or can run from 110-line power if available at the site.

NOVATEST

External Compatibility

Sampling From A Container

The sampling needle is can be attached to the sampling port of the NovaTest P 100 when sampling from a container like a sampling bag ora canister.

Sampling From A Gas Line

The PTFE connection tube can be attached to thesampling port of the NovaTest P 100 when the sample comes from a gas line.

Filtering Dirty Samples

The PTFE filters are used to filter the dust or large particles in the air samples

NOVATEST

Outstanding Performance

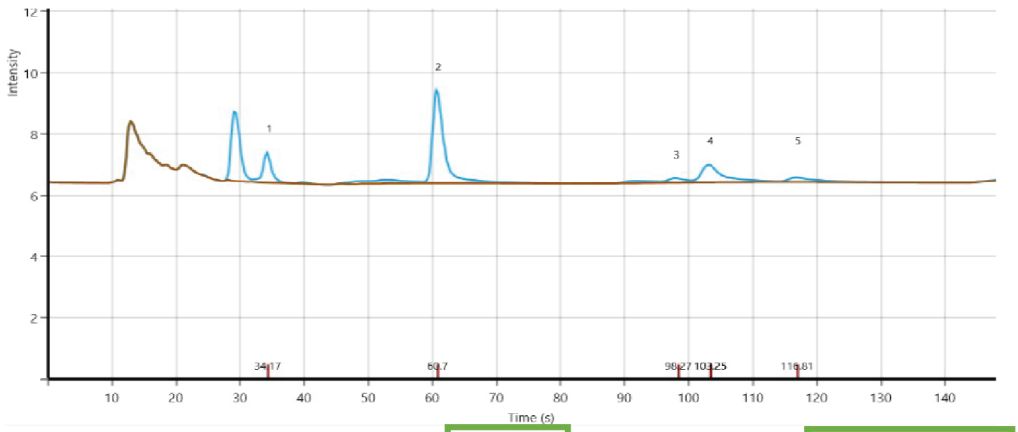
GOOD RESOLUTION

The NovaTest P100 adopts microfluidic design and the patented NovaPID with MEMS technology. It has nearly zero system dead volume, giving sharp peaks regardless of sampling concentration and good peak shape with less tailing.

REPRODUCIBLE

Great reproducibility with RSD of retention time less than 1 % and RSD of peak area less than 25 % (under same testing environment), complying with most EPA recommended GC methods.

Programming Parameters		
Sampling Time (min): 10	Waiting Time (s): 30	Pressure (psi): 10
Lowest Temperature (°C): 50	Low Holding Time (min): 0	
Temp1 (°C): 80	Temp1 Hold Time (min): 0.5	Ramp Speed 1 (°C/min): 15
Temp2 (°C): 80	Temp2 Hold Time (min): 0	Ramp Speed 2 (°C/min): 30



Peak#	Compound	RT (s)	FWHM (s)	Height	Area	Concentration (ppb)
1	Benzene	34.03	1.34	0.96	1.32	0.9
2	Toluene	60.43	1.73	3.02	5.61	1.7
3	Ethylbenzene	97.58	3.07	0.14	0.39	0.1
4	M-xylene & P-xylene	102.86	2.88	0.57	2.00	0.3
5	O-xylene	116.50	3.94	0.15	0.62	0.1

Result from a BTEX analysis in a sample vehicle using the NovaTest P100. Possible lighter/heavier compounds were not reported with the preset program of the software.

NOVATEST

300+ THEORETICALLY DETECTABLE COMPOUNDS

The 10.6 eV NovaPID detects both inorganic and organic compounds. It is capable of detecting 300+ compounds theoretically without consuming them.

2 DETECTION RANGE OPTIONS

The NovaTest P100 has 2 models for either trace detection from 1 ppb to 1 ppm or higher concentration detection from 200 ppb to 200 ppm.

Option	Model	Detection Range	VOC Trapping Configuration
1	NovaTest P100-L	1 ppb – 1 ppm	Thermal desorption unit
2	NovaTest P100-H	200 ppb – 200 ppm	Injection loop

The system will pop up alerts if the concentrations are far beyond the detection range.

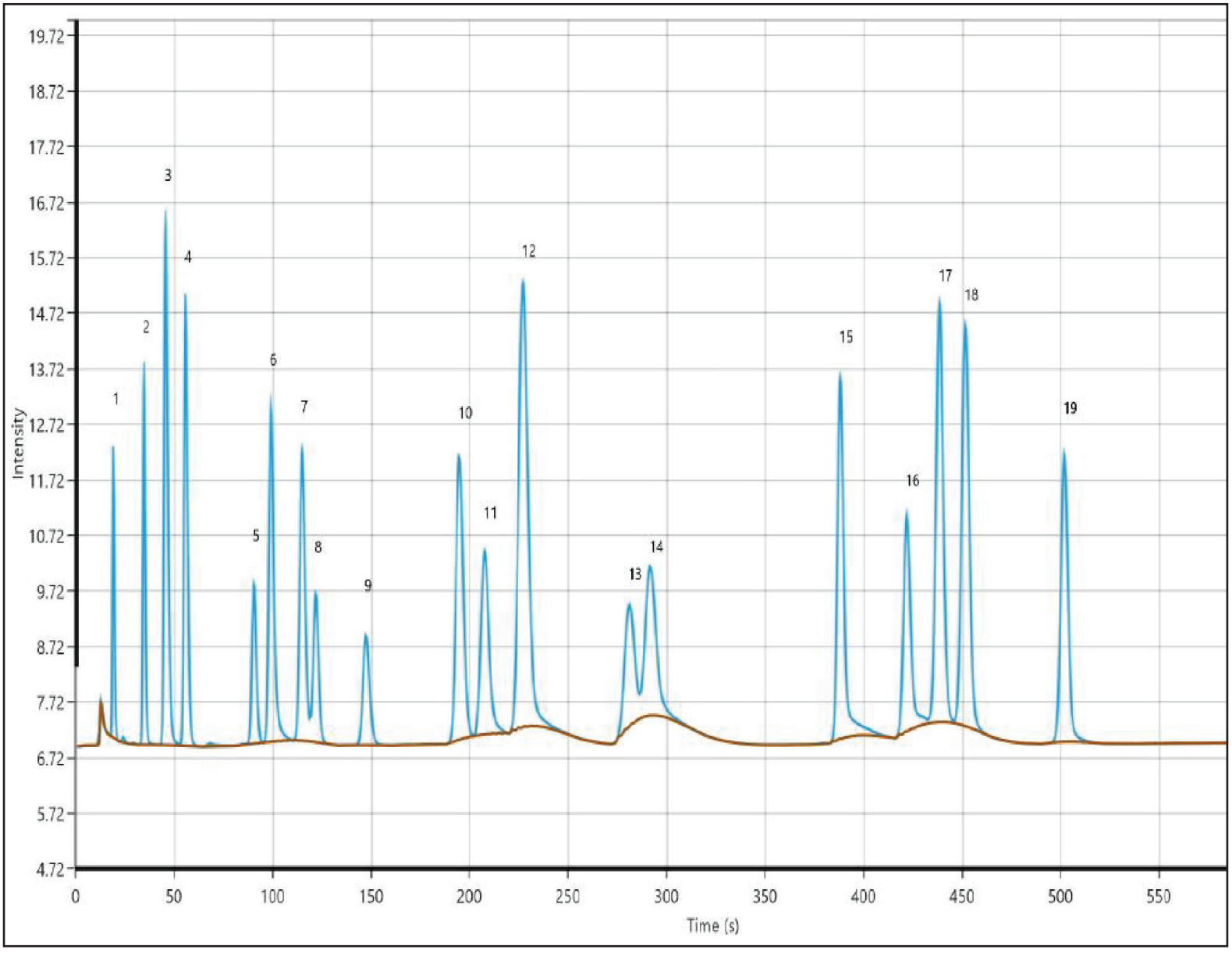
NOVATEST

Air Quality Analysis

19 targeted compounds in TO-14 chemical standard:
TO-14 calibration mix standard Chemical concentration: approx. 50 ppb each Sampling time: 0.5 min. Method used: Air Quality

No.	Compound	No.	Compound
1	1,1-Dichloroethene	11	Ethylbenzene
2	cis-1,2-Dichloroethene	12	m,p-Xylene
3	Benzene	13	o-Xylene
4	TCE	14	Styrene
5	cis-1,3-Dichloropropene	15	1,3,5-Trimethylbenzene
6	Toluene	16	1,2,4-Trimethylbenzene
7	PCE	17	1,3-Dichlorobenzene
8	trans-1,3-Dichloropropene	18	1,4-Dichlorobenzene
9	1,2-Dibromoethane	19	1,2-Dichlorobenzene
10	Chlorobenzene		

NOVATEST


Intensity
19.72
18.72
17.72
16.72
15.72
14.72
13.72
12.72
11.72
10.72
9.72
8.72
7.72
6.72
5.72
4.72
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
0
50
100
150
200
250
300
350
400
450
500
550
Time (s)

AIRLOGICS
AIR MONITORING SYSTEMS

Need an air monitoring solution? Contact us today so we can discuss the specifics of your project.

Address
150 Cooper Road
Suite I-24
West Berlin, NJ 08091

Phone
Tel: 908.803.1014

Email
info@AirLogicsLLC.com