# Dust Monitoring Compliance Thursday, September 14, 2023

# Morning Program

9:00	Welcome	10:45	Intro to Site Contribution Analysis and
9:05 9:40 10:05	Overview and Updates of CDPH Regulatory and Community Air Monitoring Approaches Michael Enos, CDPH Regional and National Regulatory Overview Brian Newgent and Claire Amin, Aeroqual Monitoring Program Design and Data Analysis Considerations Volker Schmid, CleanAir		Aeroqual's Site Contribution Tool
			Connor Porter, Aeroqual
		11:10	New Developments for Special Applications  Don Allen and Volker Schmid, CleanAir  Top 10 Support Questions
		Don Allen, CleanAir, and Connor Porter, Aeroqual	
		LUNCH	
		10:30	BREAK



### Dust Monitoring Compliance

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## **AEROQUAL TOTAL VOC MONITOR**



- Photoionization Detector (PID): sensitive, non-speciating detector.
- Does NOT respond to methane, ethane, or propane
- Responds to a large variety of inorganic and organic compounds including BTEX
- Lower Detection Limit: 1 ppb (Isobutylene)
- Automatic baseline correction to correct for cross interferences and minimize drift
- Actively pumped and supports conventional QA (bump test with zero and span gas)

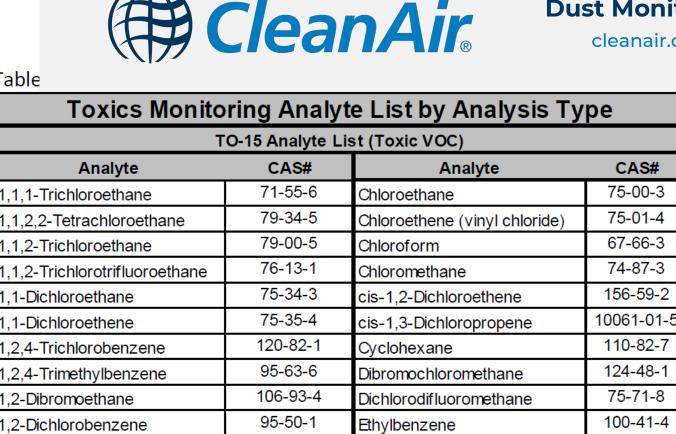


### **Dust Monitoring Compliance**

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# (#) CleanAir

Table



87-68-3 107-06-2 1,2-Dichloroethane Hexachlorobutadiene 78-87-5 108-38-3 m/p-Xylene 1,2-Dichloropropane 78-93-3 76-14-2 1,2-Dichlorotetrafluoroethane MEK 163 108-67-8 Methyl Tert-Butyl Ether 1,3,5-Trimethylbenzene 75 106-99-0 Methylene Chloride 1,3-Butadiene 10 541-73-1 MIBK 1.3-Dichlorobenzene 14 106-46-7 n-Heptane 1,4-Dichlorobenzene 11 106-94-5 -Bromopropane n-Hexane 95 622-96-8 o-Xylene I-Ethyl-4-methylbenzene 11 591-78-6 Propene 2-Hexanone 67-64-1 10 Styrene Acetone 12 Tetrachloroethene 107-02-8 10 Benzene 71-43-2

75-27-4

75-25-2

74-83-9

75-15-0

56-23-5

108-90-7

Tetrahydrofuran

Trichloroethene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichlorofluoromethane

Toluene

EPA/625/R-96/010

Compendium of Methods for the Determination of **Toxic Organic Compounds** in Ambient Air

**Second Edition** 

**Compendium Method TO-15** 

**Determination Of Volatile Organic** Compounds (VOCs) In Air Collected In **Specially-Prepared Canisters And** Analyzed By Gas Chromatography/ Mass Spectrometry (GC/MS)

10

15

100

79

75

Office of Research and Development U.S. Environmental Protection Agency



**VOC SPECIATION** 

Bromoform

Bromomethane

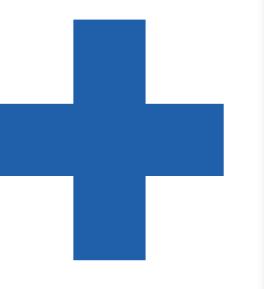
Chlorobenzene

Carbon Disulfide

Carbon Tetrachloride

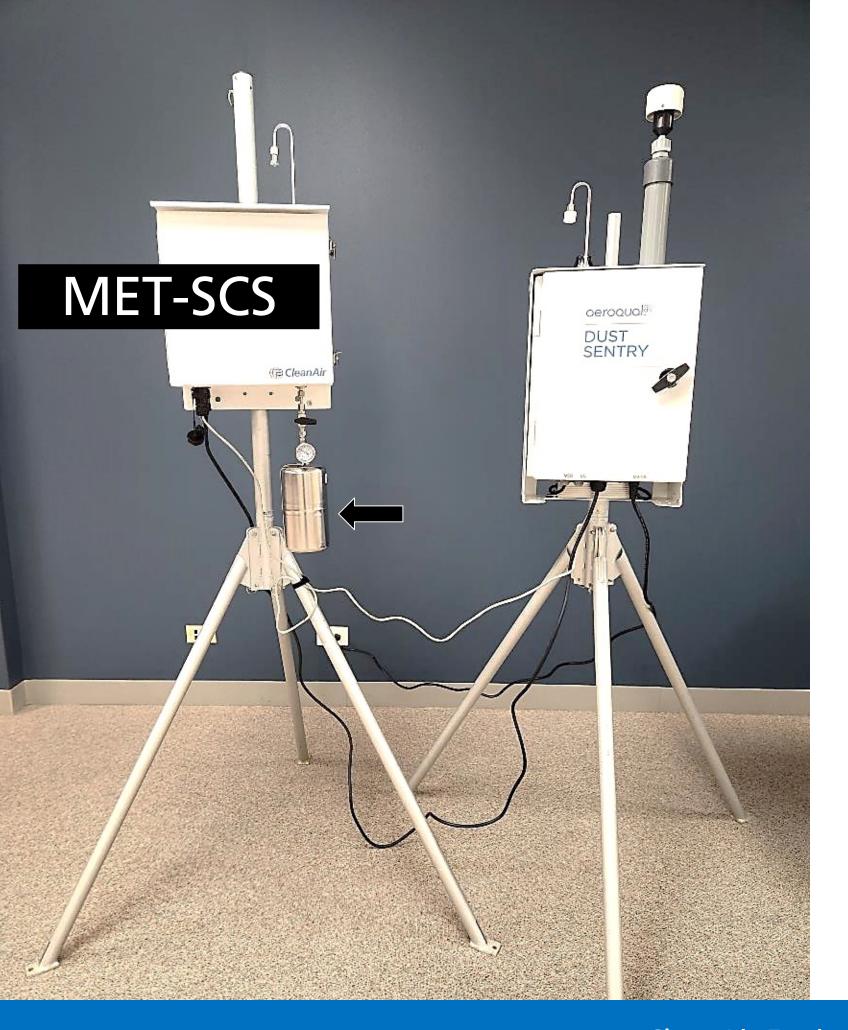












### **MET-SCS HIGHLIGHTS**

- Powered via the Aeroqual host (12 VDC)
- Communication with host via connectAPI (Ethernet cable)
- Custom trigger level based on PID value
- Allows for selection of various sampling durations: 5, 15, 30, 60 min (grab sampling)
- Protects from oversampling by monitoring Summa can vacuum
- Vacuum reading is fed back into the Aeroqual host for remote cloud-based monitoring of sampling progress and alarming







### MET-SCS HIGHLIGHTS CONTINUED...

- Silco-treated stainless steel for the entire flow path
- Silco-treated stainless steel filter
- Silco-treated stainless steel latching valve (low power) operation)
- Vacuum sensor with 316SS diaphragm
- OLED display and keypad for user interaction, run configuration, and guided can replacement





### MET-SCS HIGHLIGHTS CONTINUED...

- Accommodates various can sizes including 1.4 L and 6 L Summa cans
- Connection via ¼ inch Swagelock fitting



#### CleanAir BTU

#### Span and Zero Gas Bump Test Unit

The CleanAir Engineering BTU performs automatic bump tests at user-defined time intervals and concentrations, using integrated span and zero gas disposable 6D or 8AL cylinders.

Housed in a durable, weather-proof enclosure, the BTU is engineered for use with various air monitors, in most applications requiring bump testing. After initial on-site setup, track the BTU's performance remotely and set custom alerts using Aeroqual Cloud.

- ✓ Available for Sale or Rent
- ✓ World-Class Technical Support from CleanAir
- ✓ Full Inspection on Every CleanAir Rental
- ✓ Equipment Repair and Calibration Services

TEST INTERVAL RANGE	15 min 72 hr. (User Defined)
SPAN GASES AVAILABLE	0.5, 1, and 25 ppm
GAS CYLINDER SIZE	6D or 8AL
MEASURING RANGE	0-30 ppm
RESOLUTION	0.01 ppm
FLOW RATE	100 cc
POWER	12VDC or Powered from Aeroqual Monitors
MOUNTING	Pole Mount or Free-Standing
TEMPERATURE RANGE	-10 °F to 105 °F
DIMENSIONS (DxWxH)	6" x 10" x 26"
WEIGHT	15 lb







Bump Test Module | Aeroqual Cloud

#### **KEY FEATURES**

- User-Defined run times
- User-Defined run intervals
- Can be powered from Aeroqual monitors

#### APPLICATIONS

- Fenceline Monitoring
- Regulatory Compliance
- Remote locations
- Budget-Conscious studies
   Long-Term installations

#### Related Products Available from CleanAir







Performance Beyond Measure, since 1972. Unparalleled technical support, equipment rental, sales and servicing in Chicago, Houston, Pittsburgh, and Marseille, France www.cleanair.com | info@cleanair.com | 1-800-553-5511

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### **CLEANAIR BTU**





### **SMALL SENSOR SYSTEM**



- Responds to CH4 and other gases
- CH4 Range: 0-50 ppm
- Precision (1 min): 0.5 ppm



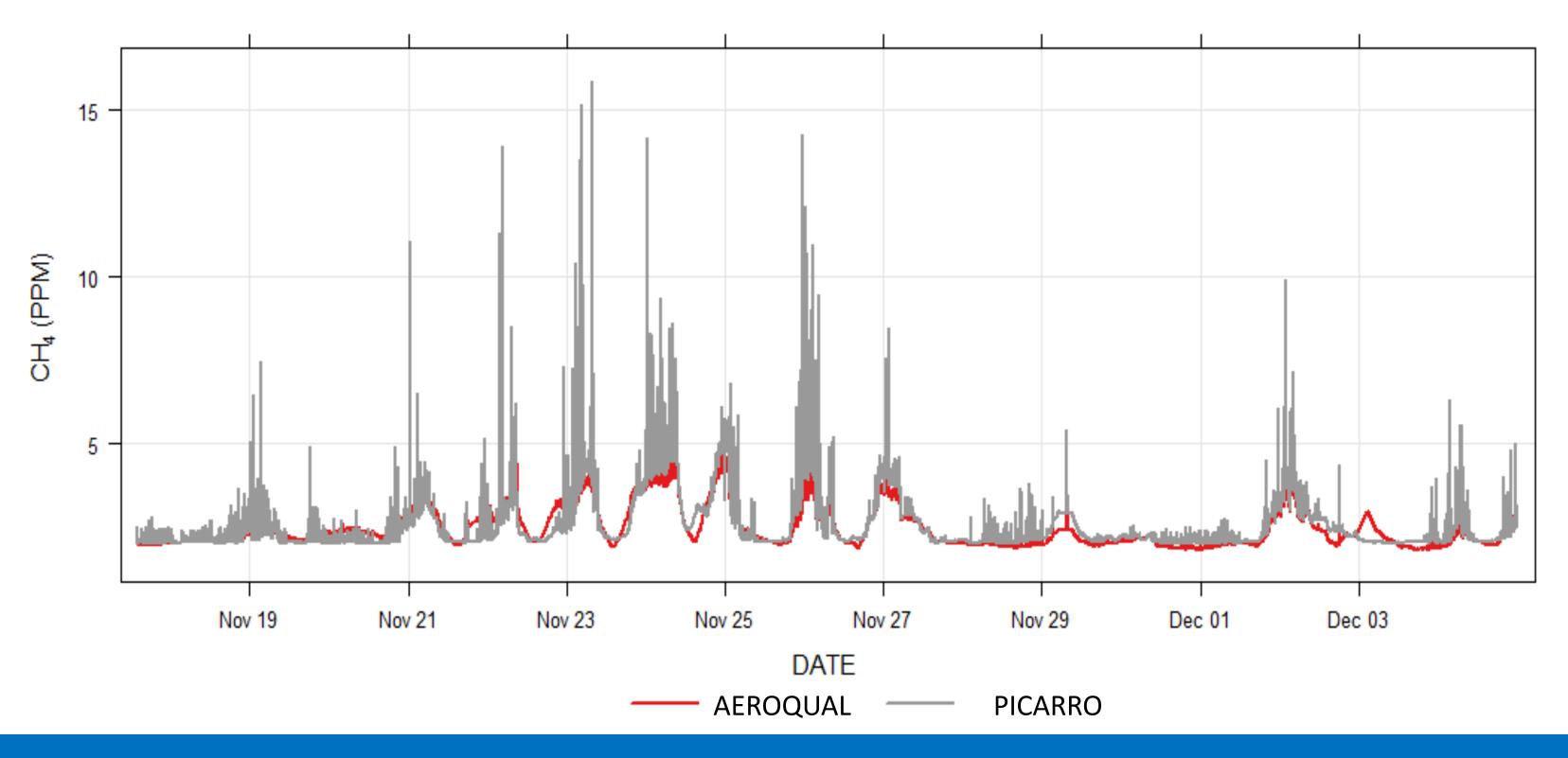




- CH4 Range: 0-800 ppm
- Precision (1 sec): 3 ppb

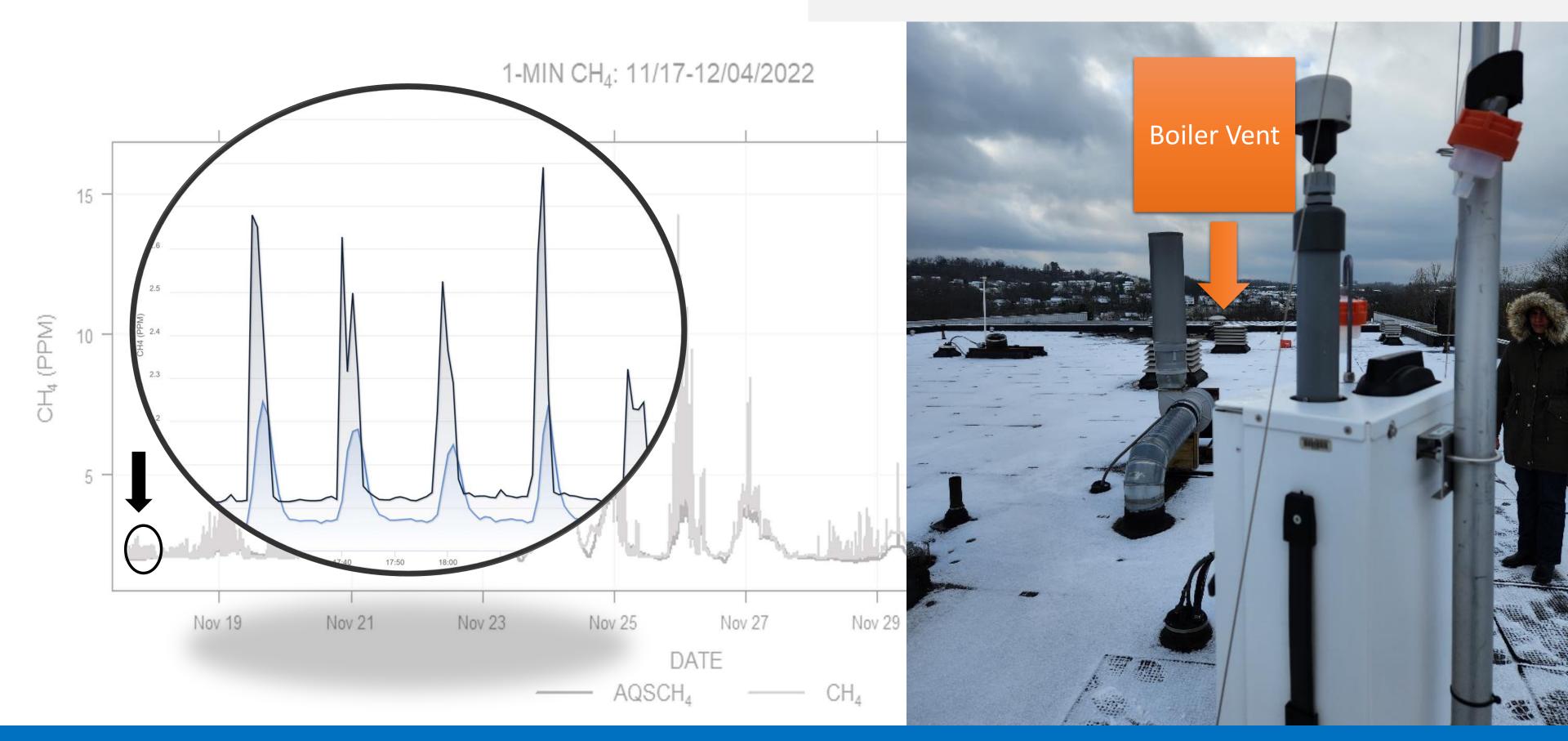


1-MIN CH<sub>4</sub>: 11/17-12/04/2022

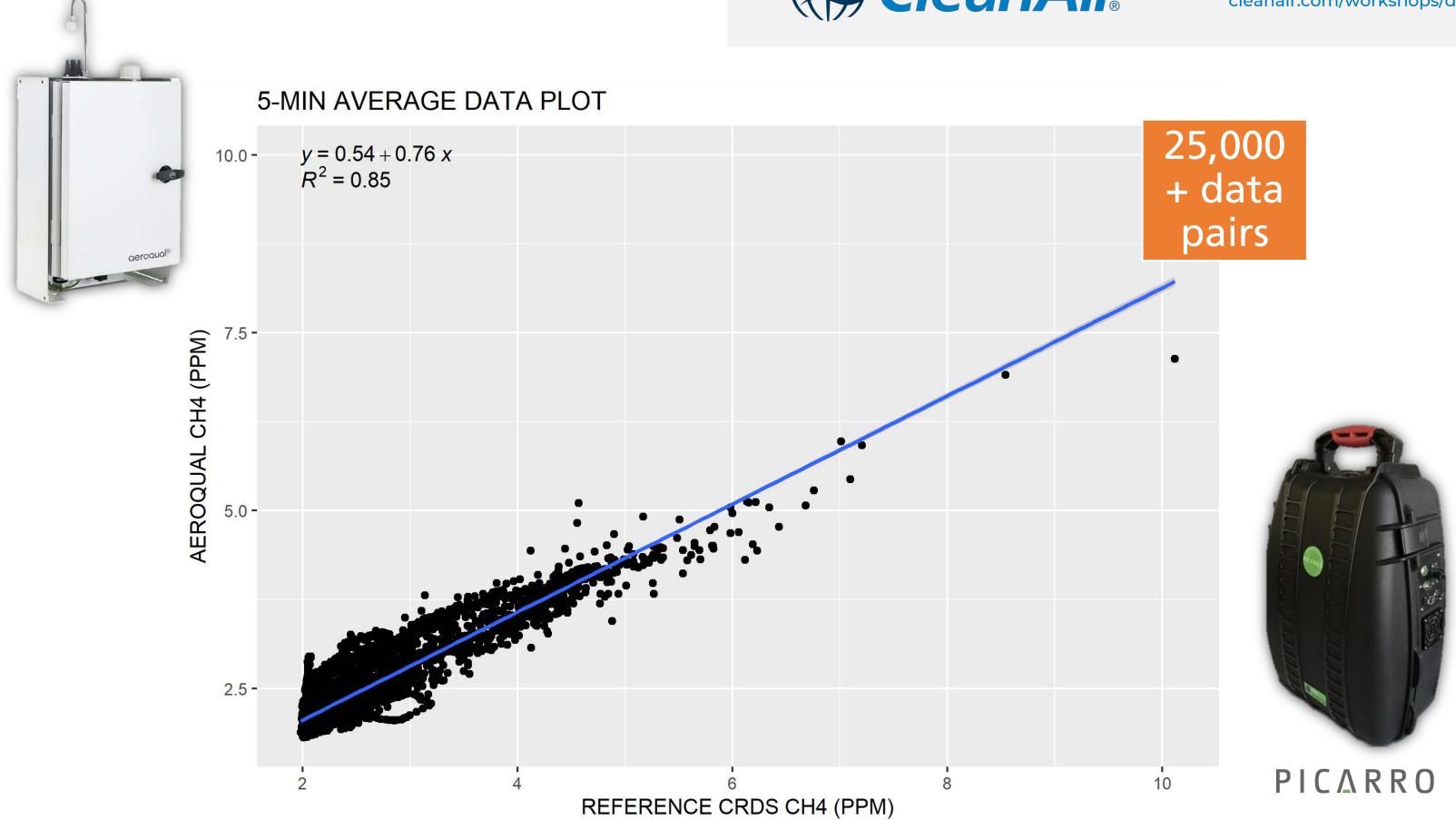




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10.30	RDFAK		