

ANALYTICAL RESULTS – OBJECT 10

PARTNER:	UNITO - CCR
TYPE OF WORK:	Painted Metal Panel (Object 10)
COUNTRY:	Italy
CITY:	Turin
ADDRESS:	Via Rocciamelone 7
OWNER / CUSTODIAN:	MAU - Museum of Urban Art
ARTIST:	Gianna Gianasso
TITLE OF THE WORK:	Wanda
YEAR OF EXECUTION:	2000
MATERIALS:	Brush painting on metal

SAMPLING POINTS LOCATION



TABLE OF ANALYTICAL RESULTS

	Name of the sample	Original materials	No original materials	Pigments / dyes		Organic binders		Type of support*		Other**	
				Identification methods	Results	Identification methods	Results	Identification methods	Results	Identification methods	Results
1	Blue layer	x		ATR-FTIR	Calcite, silicates	ATR-FTIR	PVA			ATR-FTIR	oxalates
2	Red layer	x		ATR-FTIR	Probably organic pigment, calcite	ATR-FTIR Py-GC/MS	Acrylic				
3	White layer	x		ATR-FTIR	Calcite, Ti white	ATR-FTIR Py-GC/MS	Styrene-Acrylic				

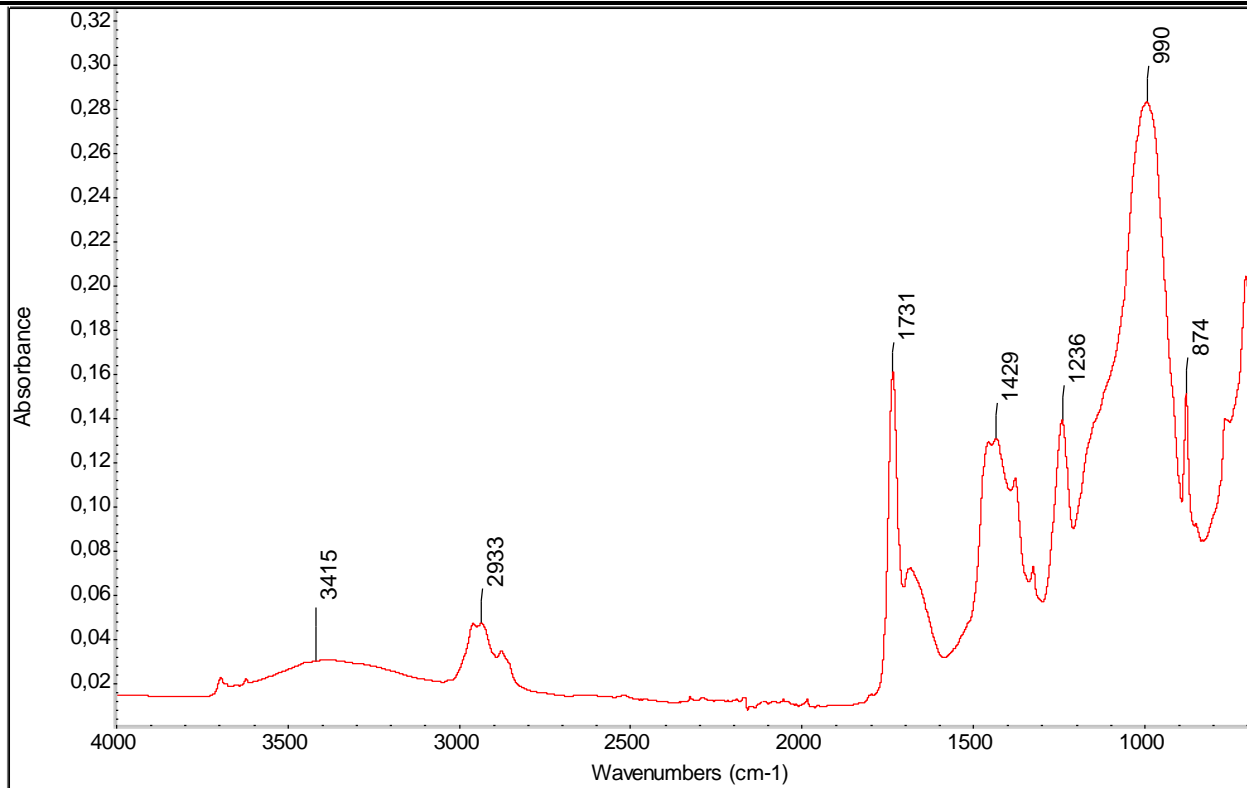
4	Copper layer	x		ATR-FTIR	n.i.	ATR-FTIR	PVA				
5	Black layer background	x		ATR-FTIR	Barite, talc, probably gypsum	ATR-FTIR Py-GC/MS	Styrene-Acrylic				

* mortars, stone, metal ect.

** Additional research or analyzes, for example: aging tests, colorimetry, pH...

FOURIER-TURNAM INFRARED SPECTROSCOPY (FTIR)

Sample n°: OBJ 10-1



ASSIGNMENTS:

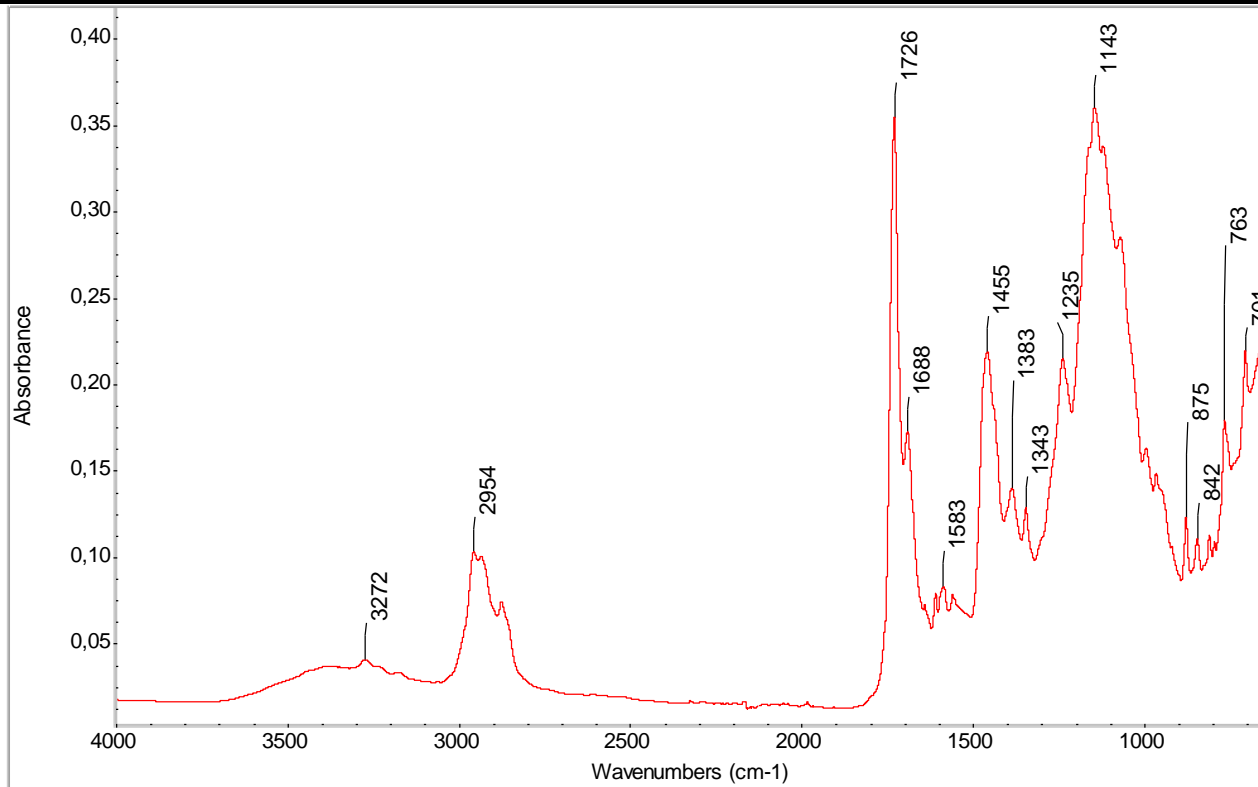
PVA: 2933 cm⁻¹, 1731 cm⁻¹, 1429 cm⁻¹, 1373 cm⁻¹, 1236 cm⁻¹, 1022 cm⁻¹, 946 cm⁻¹

Calcite: 2511 cm⁻¹, 1796 cm⁻¹, 1428 cm⁻¹, 877 cm⁻¹, 712 cm⁻¹

Silicates: 900-1200 cm⁻¹

Oxalates: 1678 cm⁻¹, 1321 cm⁻¹, 782 cm⁻¹

Sample n°: OBJ 10-2

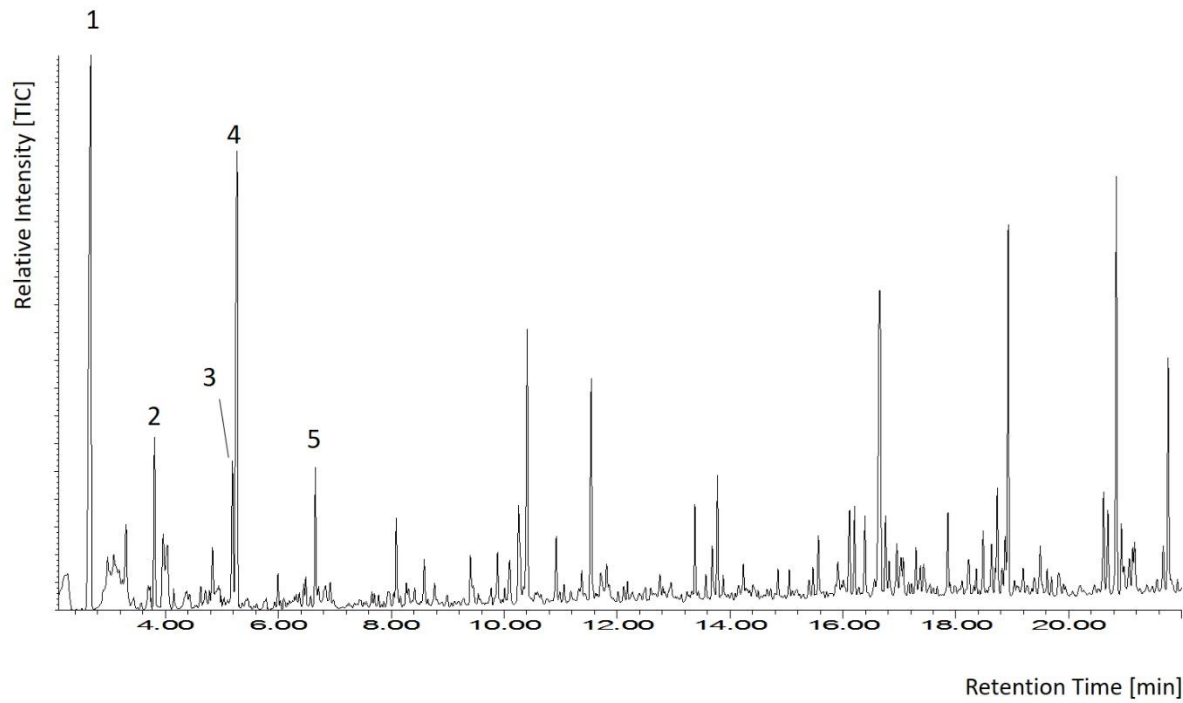


ASSIGNMENTS:

Acrylic: 2953 cm⁻¹, 2878 cm⁻¹, 1726 cm⁻¹,
1455 cm⁻¹, 1383 cm⁻¹, 1234 cm⁻¹, 1146 cm⁻¹,
1068 cm⁻¹, 994 cm⁻¹, 842 cm⁻¹, 802 cm⁻¹,
763 cm⁻¹

PYROLYSIS-GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Sample n°: OBJ 10-2



Peak N.	Assignment	Rt (min)
1	methyl methacrylate	2.7
2	3-methylene-heptane	3.6
3	styrene	5.2
4	butyl acrylate	5.3
5	butyl methacrylate	6.7

This document was produced within the project ***Conservation of Art in Public Spaces (CAPuS)***.

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