Supplementary materials for:

History and techniques of a polychrome wooden statue, How an integrated approach contributes to resolving iconographic inconsistencies

Angela Lo Monaco [1*], Giorgia Agresti [2], Giovanna Serusi [2], Anna Rita Taddei[3], Claudia Pelosi[2]

[1] Department of Agriculture and Forest Science (DAFNE), University of Tuscia, Viterbo, Italy
[2] Department of Economics, Engineering, Society and Business Organization (DEIM), University of Tuscia, Viterbo, Italy
[3] High Equipment Centre, Section of Electron Microscopy, University of Tuscia, Viterbo, 01100, Italy

* Correspondence: lomonaco@unitus.it.

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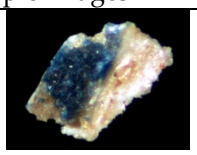
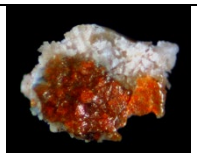
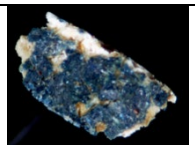
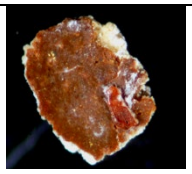
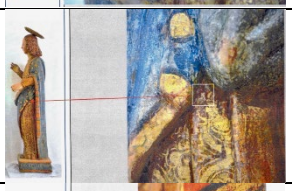
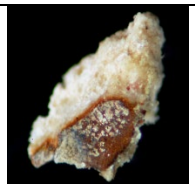
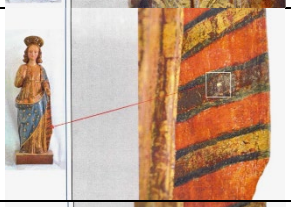
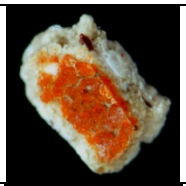
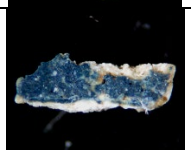
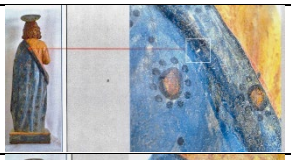
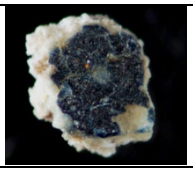
Figure S10. FTIR spectrum of sample SG4 (orange from the robe mantle) in DRIFT modality.

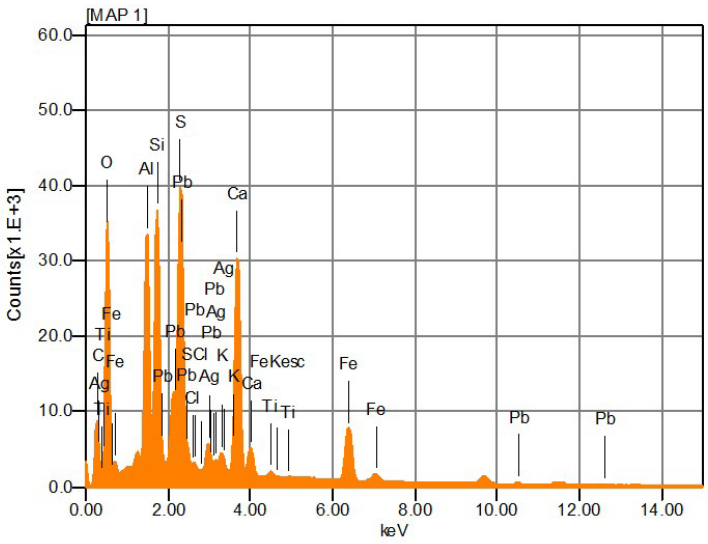
Figure S11. FTIR spectrum of sample SG6 (brown from the robe) in DRIFT modality.

Figure S12. FTIR spectrum of sample SG7 (brown, turn-up of the mantle) in DRIFT modality.

Figure S13. FTIR spectrum of sample SG10 (blue from the mantle's embroidery) in DRIFT modality.

Table S1. Painting micro samples and points of sampling

Sample Nr. and description	Sample images	Point of sampling
SG1: Blue from the quadrangular shaped base		
SG2: Red from the quadrangular shaped base		
SG3: Blue from the quadrangular shaped base		
SG4: Orange from the robe		
SG5: Gilding from the robe		
SG6: Brown from the robe		
SG7: Brown, turn-up of the mantle		
SG8: Orange, turn-up of the mantle		
SG9: Blue from the mantle		
SG10: Blue from the mantle's embroidery		



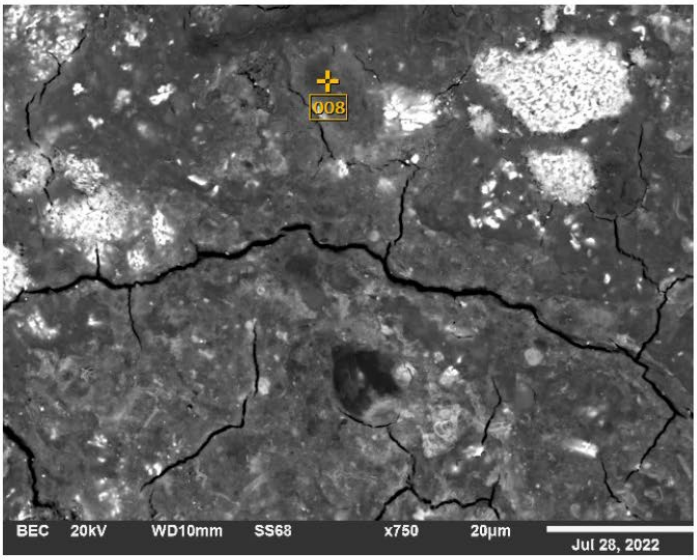
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Volt : 20.00 kV
Current : ---
Process Time : T1
Live time : 410.17 sec.
Real Time : 425.36 sec.
DeadTime : 4.00 %
Count Rate : 11267.00 CPS

Chemical formula	ms%	mol%	Sigma	Net	K ratio	Line
C 21.33	35.19	0.19	180580	0.0108293		K
O 33.92	42.01	0.23	746454	0.1520253		K
Al 5.46	4.01	0.08	899393	0.0587883		K
Si 6.72	4.74	0.09	1134699	0.0830237		K
S 7.88	4.87	0.08	1351371	0.1193206		K
Cl 0.23	0.13	0.09	35136	0.0033955		K
K 0.79	0.40	0.12	115121	0.0130343		K
Ca 9.95	4.92	0.13	1497205	0.1719591		K
Ti 0.34	0.14	0.18	32928	0.0049618		K
Fe 7.99	2.84	0.32	475574	0.1240450		K
Ag* 2.62	0.48	0.26	243240	0.0341625		L
Pb 2.75	0.26	0.39	206611	0.0345274		M
Total 100.00	100.00					

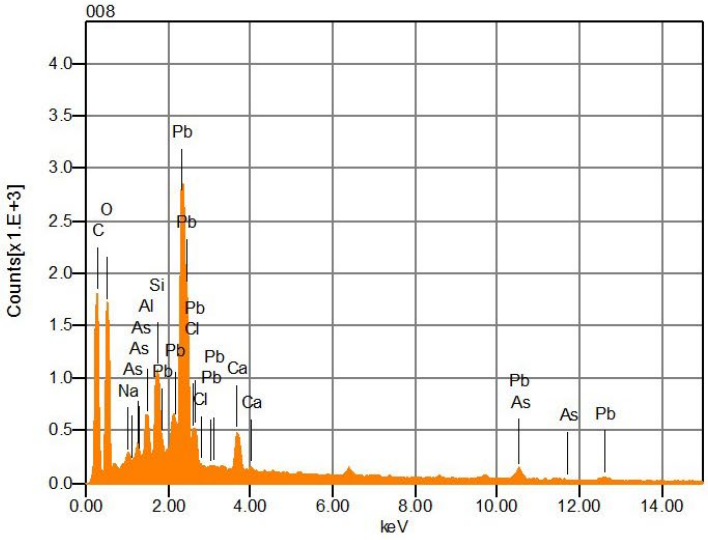
JEOL EDS System JEOL

Figure S1. Chemical map of sample SG7 section (brown, turn-up of the mantle).

008



Volt : 20.00 kV
Mag. : x 750
Date : 2022/07/28
Pixel : 1280 x 960



Acquisition Condition
Instrument : 6010LA
Volt : 20.00 kV
Current : ---
Process Time : T4
Live time : 17.38 sec.
Real Time : 21.05 sec.
DeadTime : 18.00 %
Count Rate : 12461.00 CPS

Chemical formula	ms%	mol%	Sigma	Net	K ratio	Line
C 38.41	64.76	0.06	43060	0.0609420		K
O 21.50	27.21	0.11	43545	0.2092974		K
Na 0.42	0.37	0.06	2978	0.0076246		K
Al 1.06	0.79	0.04	14047	0.0216684		K
Si 2.34	1.69	0.05	33619	0.0580532		K
Cl 1.32	0.75	0.06	14236	0.0324682		K
Ca 1.70	0.86	0.07	19263	0.0522127		K
As 1.82	0.49	1.97	2214	0.0496828		K
Pb 31.43	3.07	0.19	207039	0.8165367		M
Total 100.00	100.00					

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Figure S2. Sample SG2 (red from the quadrangular shaped base), magnification 750×; point analysis with the chemical elements found.

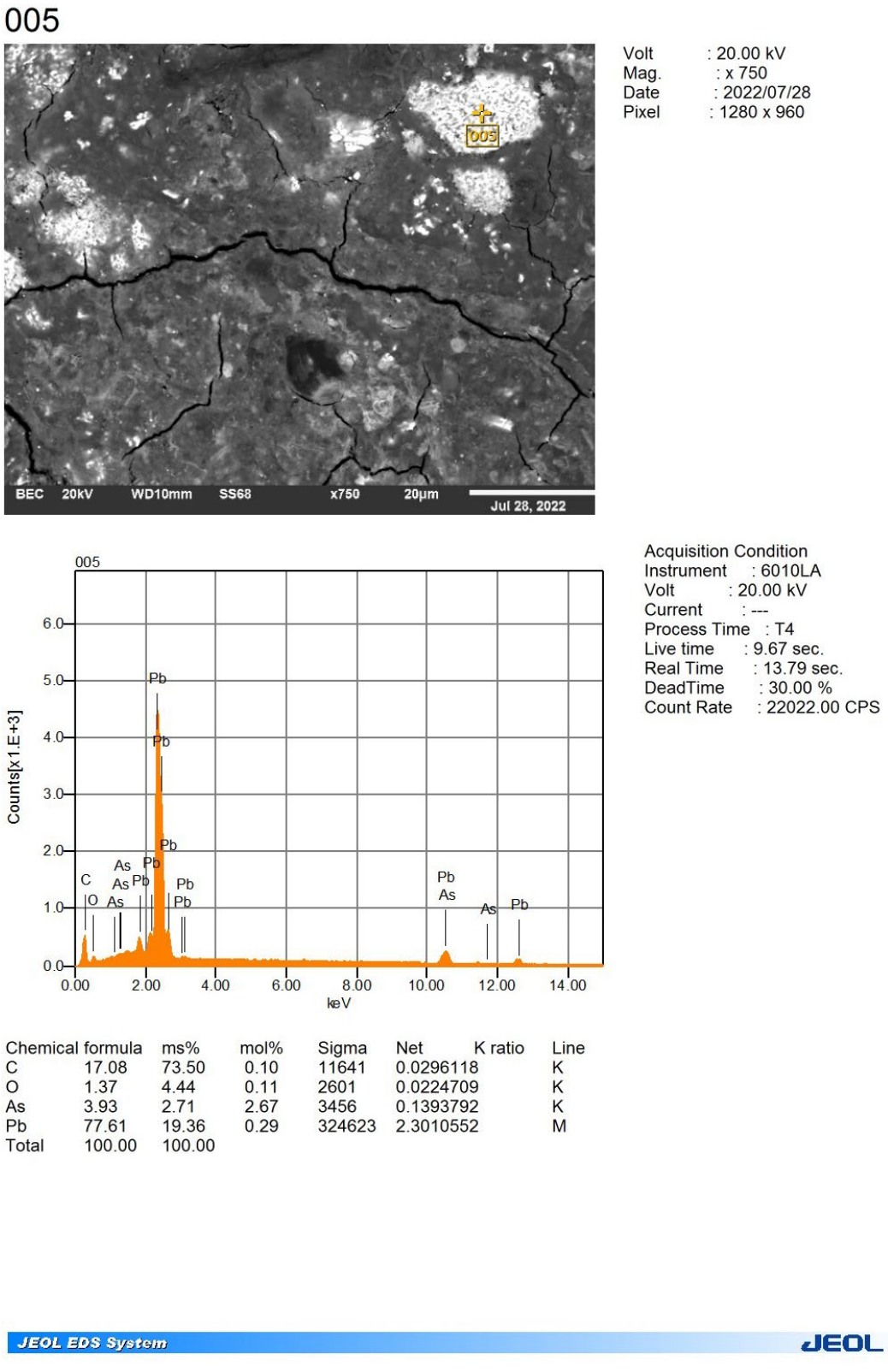
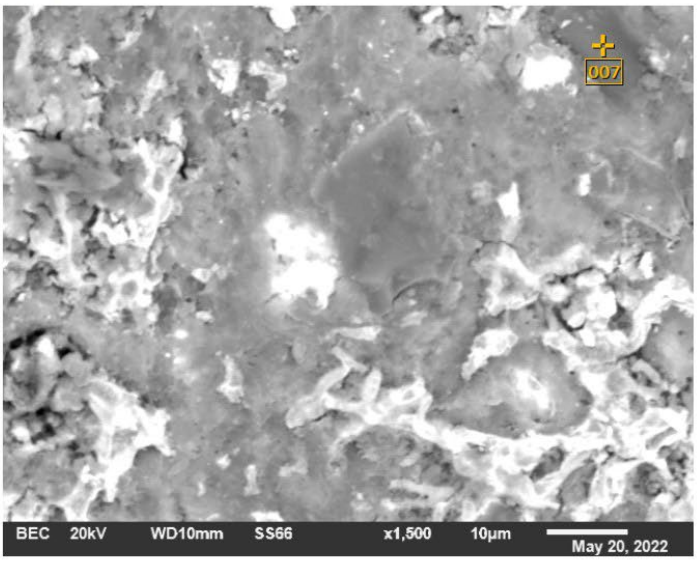
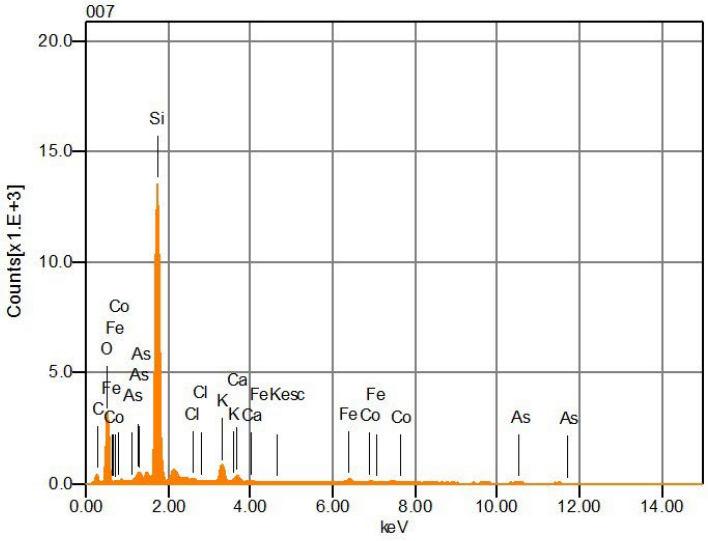


Figure S3. Sample SG2 (red from the quadrangular shaped base), magnification 750×; point analysis (very bright area) with the chemical elements found.

007



Volt : 20.00 kV
Mag. : x 1,500
Date : 2022/05/20
Pixel : 640 x 480



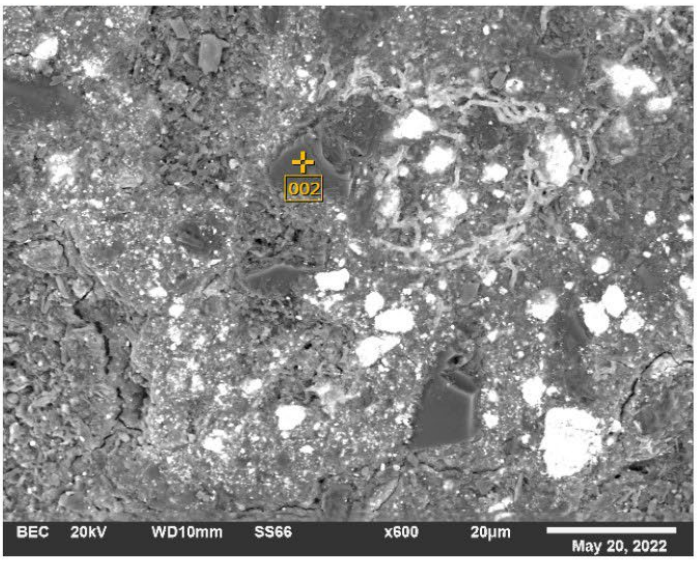
Acquisition Condition
Instrument : 6010LA
Volt : 20.00 kV
Current : ---
Process Time : T4
Live time : 19.86 sec.
Real Time : 24.33 sec.
DeadTime : 18.00 %
Count Rate : 12981.00 CPS

Chemical formula	ms%	mol%	Sigma	Net	K ratio	Line
C 19.23	30.21	0.58	9454	0.0117092		K
O 36.54	43.10	0.40	83227	0.3500754		K
Si 33.54	22.54	0.17	528619	0.7988198		K
Cl 0.41	0.22	0.21	4982	0.0099439		K
K 3.55	1.71	0.27	41230	0.0964122		K
Ca 1.21	0.57	0.28	14691	0.0348473		K
Fe 1.96	0.66	0.70	9654	0.0520061		K
Co 1.42	0.46	0.88	5834	0.0370531		K
As 2.14	0.54	4.45	2426	0.0476354		K
Total 100.00	100.00					

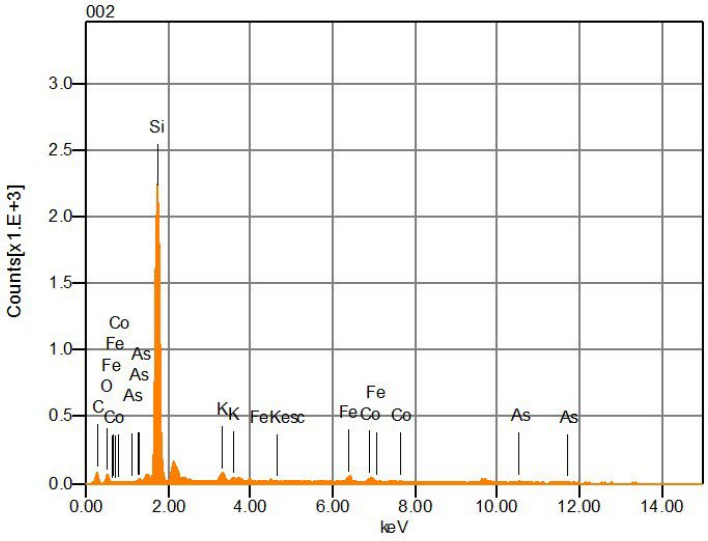
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Figure S4. Sample SG3 (blue from the quadrangular shaped base), magnification 1500×; point analysis with the chemical elements found.

002



Volt : 20.00 kV
Mag. : x 600
Date : 2022/05/20
Pixel : 1280 x 960



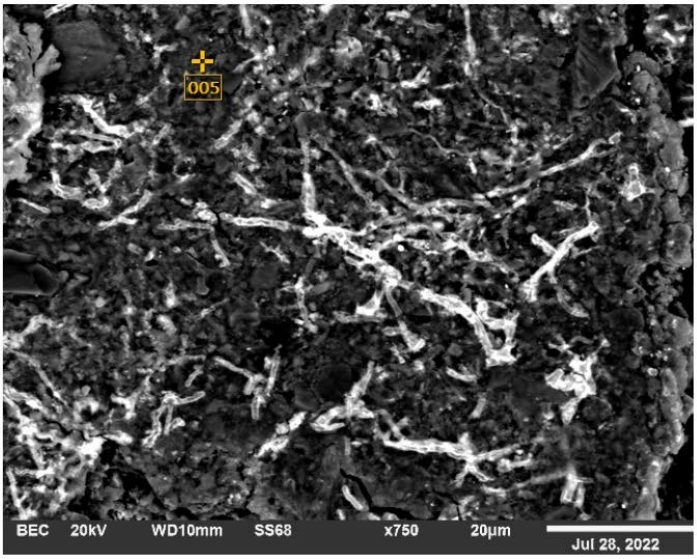
Acquisition Condition
Instrument : 6010LA
Volt : 20.00 kV
Current : ---
Process Time : T4
Live time : 8.15 sec.
Real Time : 8.83 sec.
DeadTime : 8.00 %
Count Rate : 5326.00 CPS

Chemical formula	ms%	mol%	Sigma	Net	K ratio	Line
C	37.15	58.93	1.24	2013	0.0060767	K
O	7.38	8.79	1.00	1602	0.0164165	K
Si	40.43	27.43	0.31	84860	0.3124861	K
K	2.00	0.98	0.49	3049	0.0173755	K
Fe	3.40	1.16	1.22	2263	0.0297125	K
Co	3.76	1.22	1.55	2090	0.0323478	K
As	5.87	1.49	7.84	898	0.0429823	K
Total	100.00	100.00				

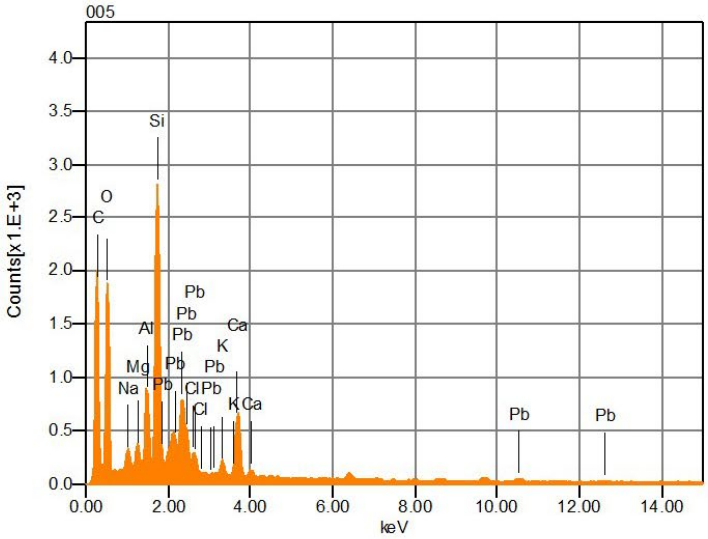
JEOL EDS System JEOL

Figure S5. Sample SG9 (blue from the mantle). magnification 600×; point analysis with the chemical elements found.

005



Volt : 20.00 kV
Mag. : x 750
Date : 2022/07/28
Pixel : 1280 x 960



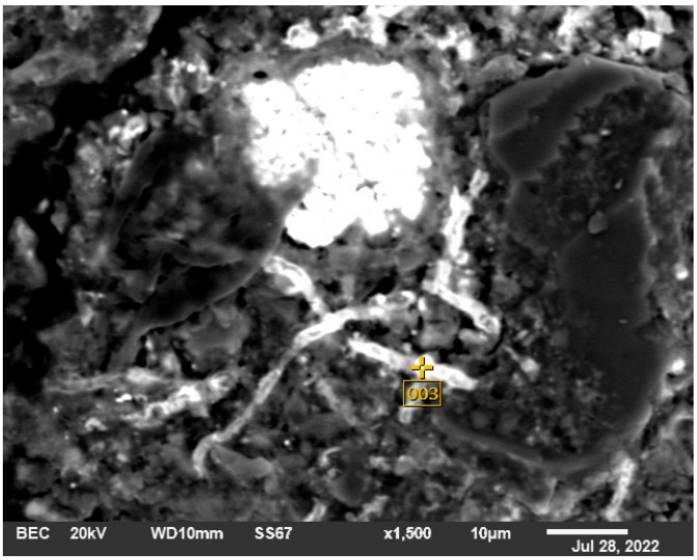
Acquisition Condition
Instrument : 6010LA
Volt : 20.00 kV
Current : ---
Process Time : T4
Live time : 15.10 sec.
Real Time : 17.83 sec.
DeadTime : 16.00 %
Count Rate : 10951.00 CPS

Chemical formula	ms%	mol%	Sigma	Net	K ratio	Line
C 45.01	60.12	0.07	46891	0.0763843		K
O 30.81	30.89	0.16	48244	0.2668956		K
Na 0.71	0.50	0.08	4809	0.0141706		K
Mg 0.71	0.47	0.06	7285	0.0131846		K
Al 1.94	1.16	0.05	25147	0.0446489		K
Si 7.76	4.44	0.06	105394	0.2094718		K
Cl 0.66	0.30	0.06	7471	0.0196118		K
K 0.66	0.27	0.08	6948	0.0213681		K
Ca 2.96	1.19	0.09	32897	0.1026338		K
Pb 8.77	0.68	0.25	49969	0.2268303		M
Total 100.00	100.00					

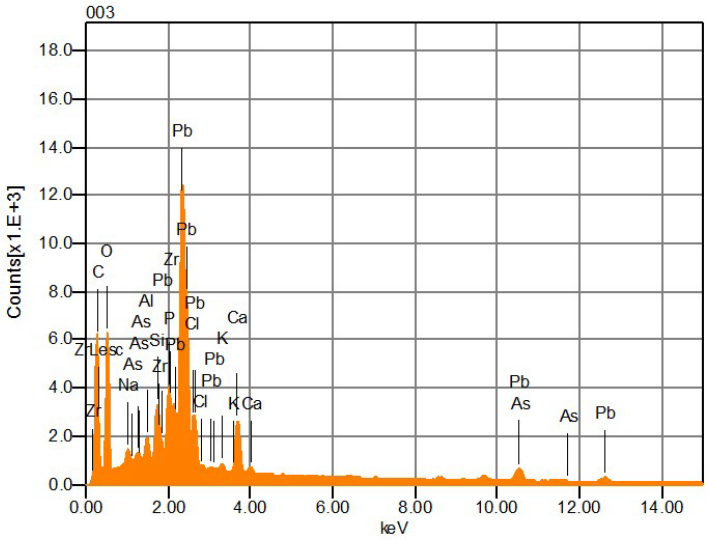
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Figure S6. Sample SG10 (blue from the mantle's embroidery), magnification 750×; point analysis with the chemical elements found.

003



Volt : 20.00 kV
Mag. : x 1,500
Date : 2022/07/28
Pixel : 640 x 480



Acquisition Condition
Instrument : 6010LA
Volt : 20.00 kV
Current : ---
Process Time : T4
Live time : 60.00 sec.
Real Time : 77.41 sec.
DeadTime : 22.00 %
Count Rate : 16938.00 CPS

Chemical formula	ms%	mol%	Sigma	Net	K ratio	Line
C	35.30	63.70	0.06	143374	0.0587778	K
O	19.04	25.79	0.09	154551	0.2151776	K
Na	0.59	0.55	0.05	17046	0.0126398	K
Al	0.56	0.45	0.04	29797	0.0133145	K
Si	1.40	1.08	0.04	81193	0.0406119	K
P	1.76	1.23	0.04	91615	0.0631860	K
Cl	1.94	1.18	0.05	83546	0.0551943	K
K	0.40	0.22	0.06	16966	0.0131316	K
Ca	2.68	1.45	0.06	122707	0.0963446	K
As	2.90	0.84	1.67	14518	0.0943626	K
Zr	nd	nd				L
Pb	33.42	3.50	0.16	885640	1.0117657	M
Total	100.00	100.00				

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Figure S7. Sample SG10 (blue from the mantle's embroidery), magnification 1500×; point analysis with the chemical elements found.

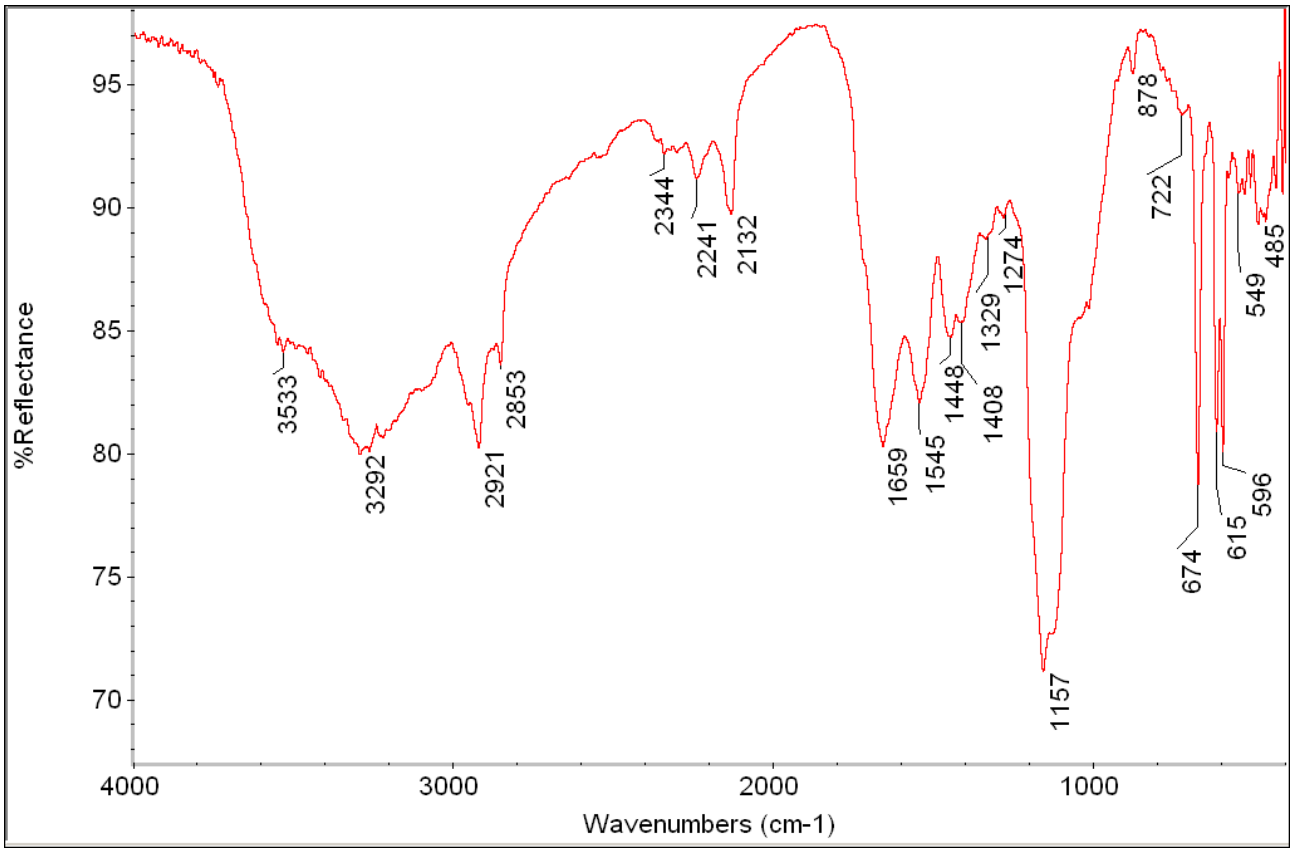


Figure S8. FTIR spectrum of sample SG2 (red from the quadrangular shaped base) in DRIFT modality.

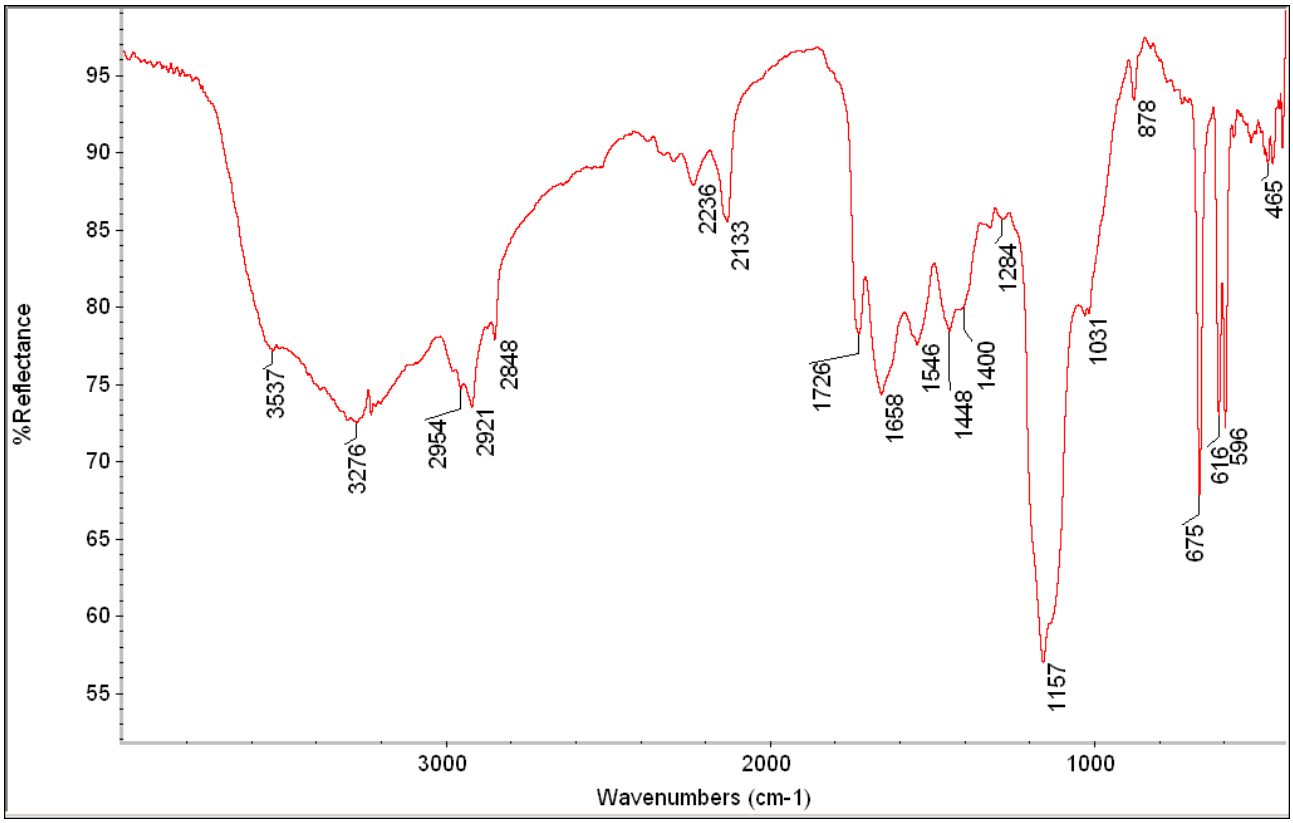


Figure S9. FTIR spectrum of sample SG3 (blue from the quadrangular shaped base) in DRIFT modality.

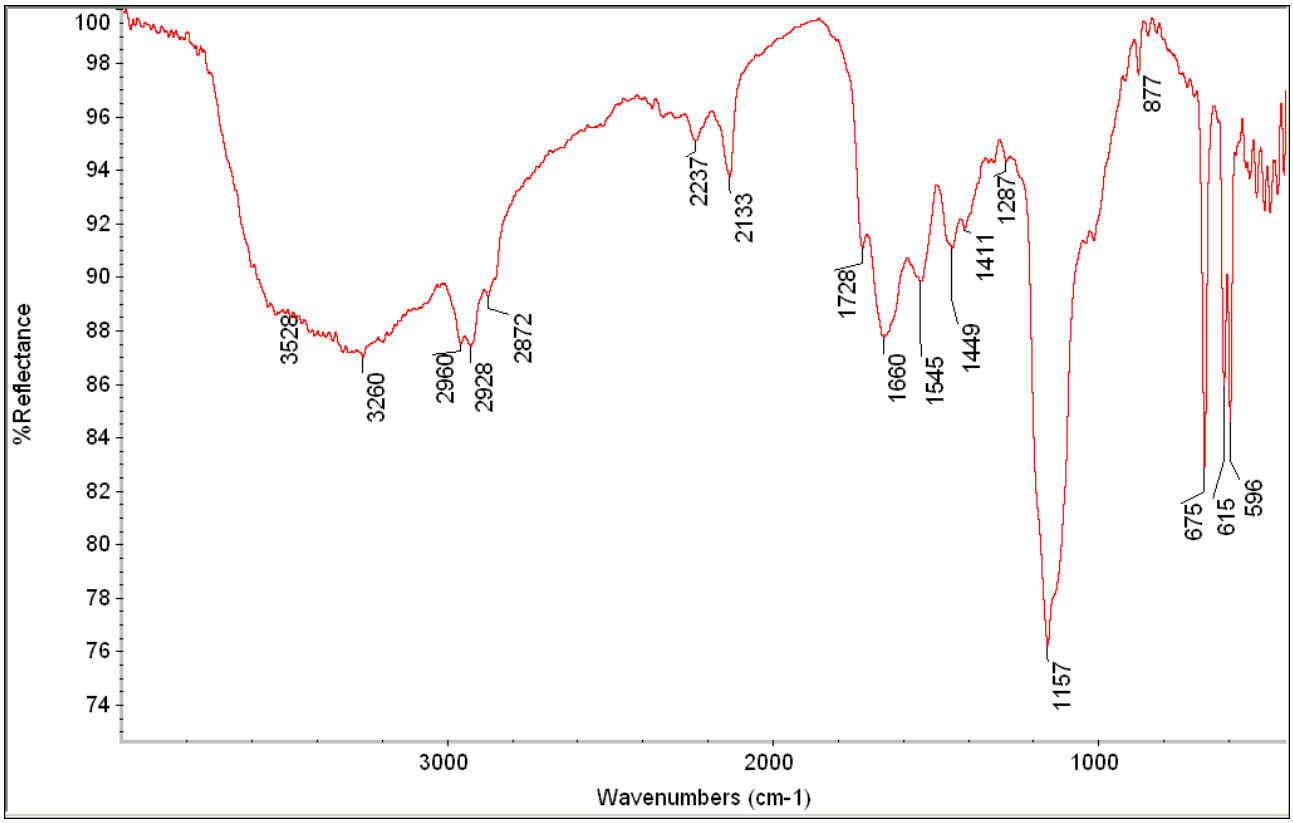


Figure S10. FTIR spectrum of sample SG4 (orange from the robe) in DRIFT modality.

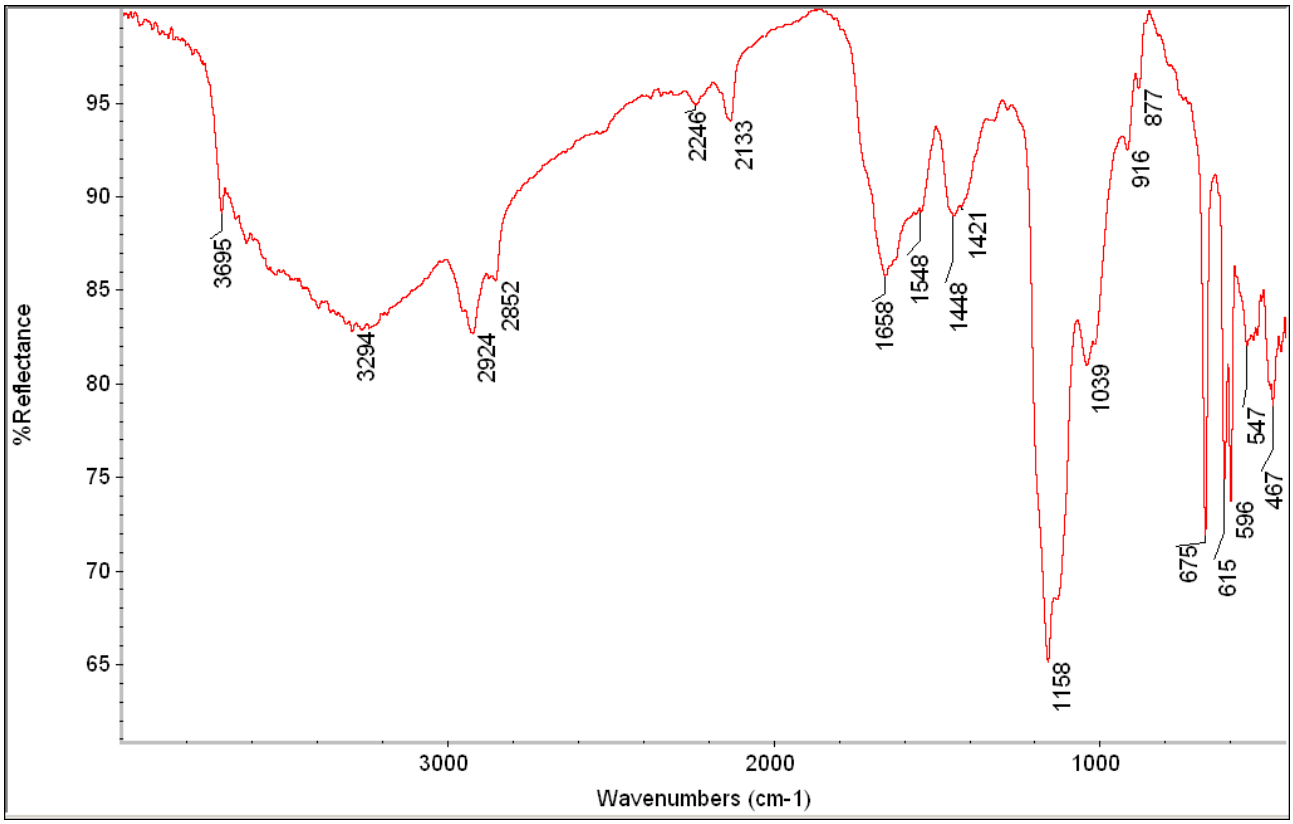


Figure S11. FTIR spectrum of sample SG6 (brown from the robe) in DRIFT modality.

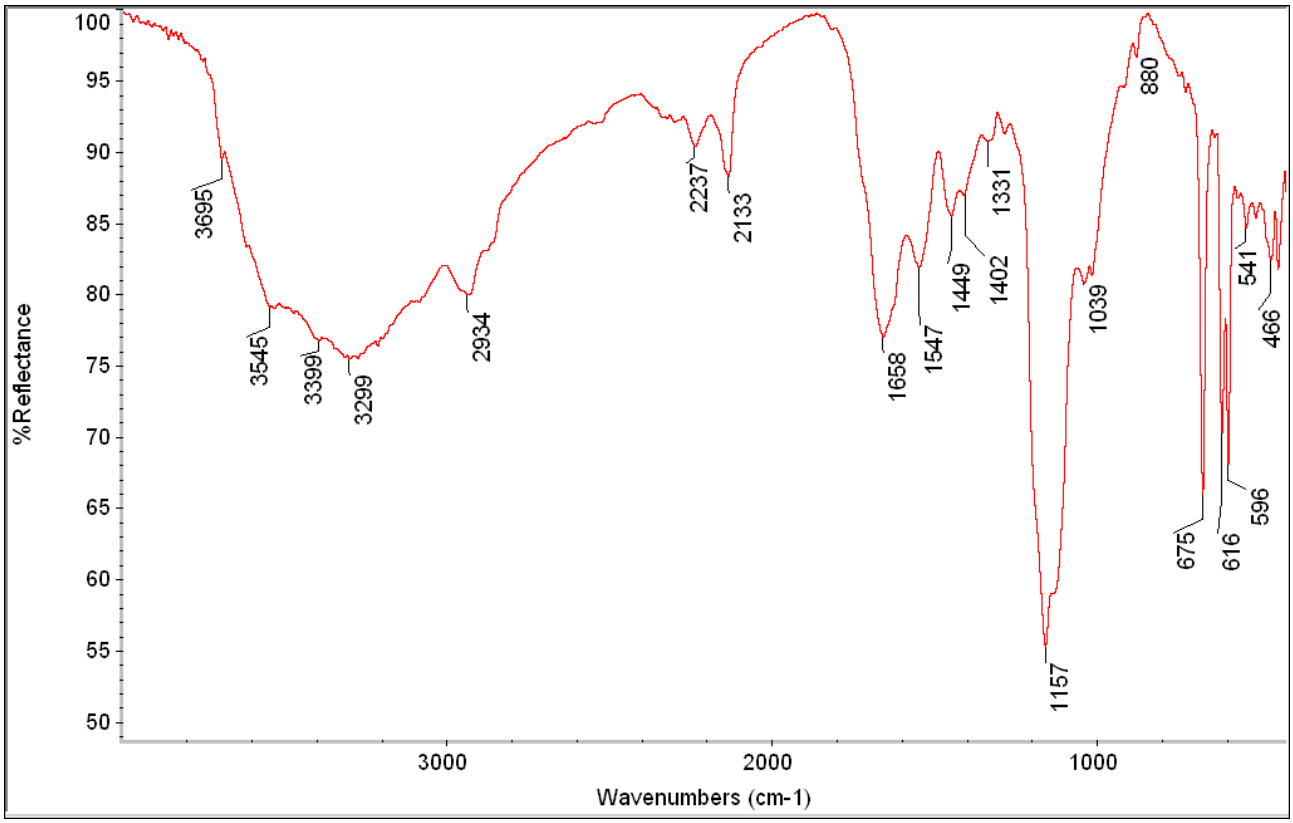


Figure S12. FTIR spectrum of sample SG7 (brown, turn-up of the mantle) in DRIFT modality.

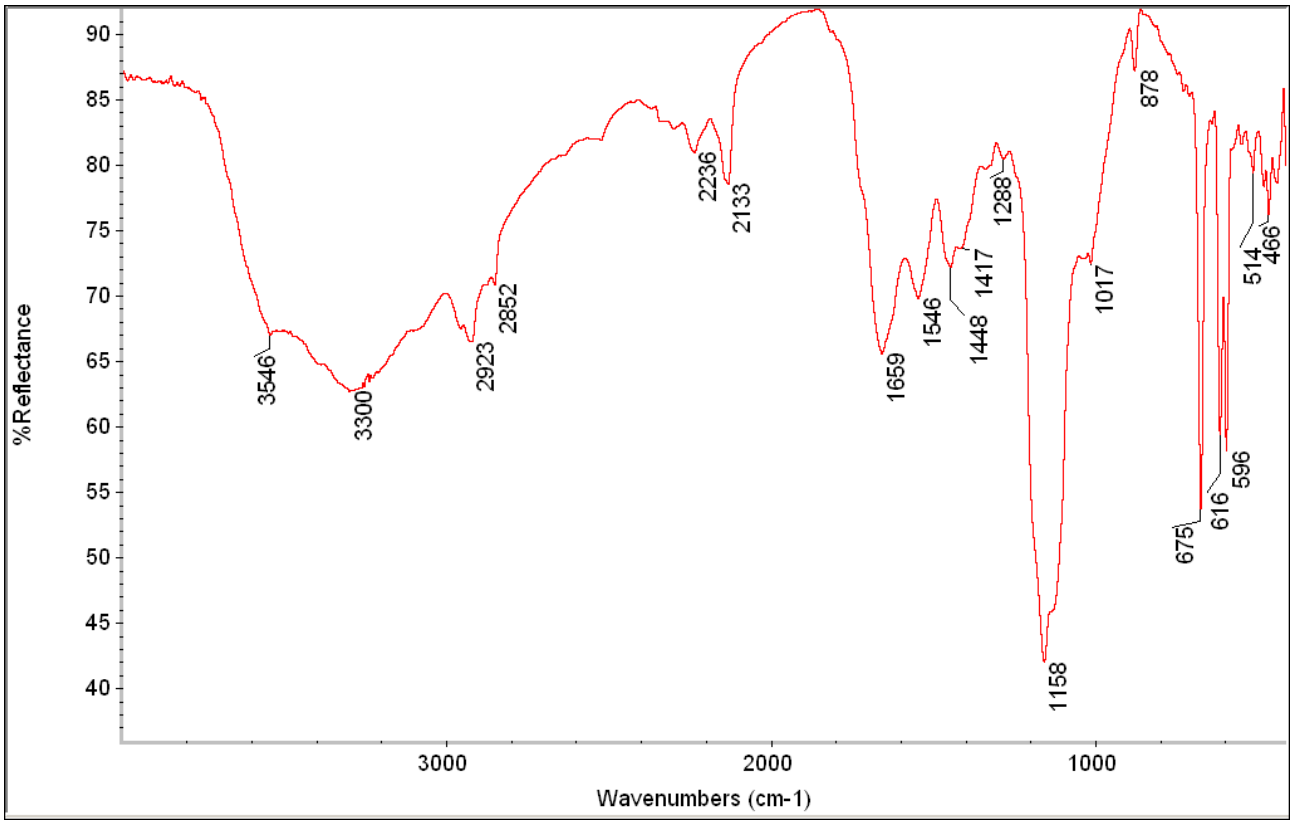


Figure S13. FTIR spectrum of sample SG10 (blue from the mantle's embroidery) in DRIFT modality.