



Nanjing FAME Technology and Trading Co., Ltd

Nanjing JCNANO Tech Co., Ltd

Certificate of Analysis

Name	Single-layer graphene nanoplatelets
Product	JCG-1-50
Batch	02110615A
TEST	Specification
Appearance	Black solid power Single-layer graphene nanoplatelets > 97%
SEM images	(Annex I: SEM images) Single layered graphene > 97%
XRF element analysis	1% silicon, other impurities were less than 0.25% (Annex II: XRF element analysis report)
XRD patterns	Single layered graphene > 97% (Annex III: XRD patterns)
TEM images	Single layered graphene > 97% (Annex IV: TEM and HRTEM images)

Nanjing JCNANO Co., Ltd
Add: Nanjing Road Jianning No. 241 Room 703
Zip: 210015
Tel: +86 25 66602036 58830538 400-025-7300
Fax: +86 25 58837848



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AFM images	Single layered graphene > 97% (Annex V: AFM images)
Solubility	Standard
Heavy Metal	< 30ppm

Product quality assurance and disclaimer: The company offers the best quality and price competitive products. All of the products provided by our company will be ensured that its quality meets the following test or quality reports. If not, we will refund the full price or replacement, but the customer must provide the appropriate analytical testing evidence, and refund all of the products that are not up to standard. Any customer agrees and recognizes, contact and processes any of our products must be carried out by professionals, as well as full and maximum liability will be limited to the company's customers to buy the corresponding product prices. Our company will not be liable to any other liability for any other direct or indirect use of our products caused by contact. Any purchase or use of our products will mean that the customer agrees and accepts the product quality assurance and disclaimers.

Notes :

All data in this document is a commercial secret text. Without the written authorization of the Company, any proliferation is not allowed. Those who violated will be investigated corresponding legal liability in accordance with the law.

Our Company graphene has a single layer rate (>97%), large diameter (20 ~ 80μm).

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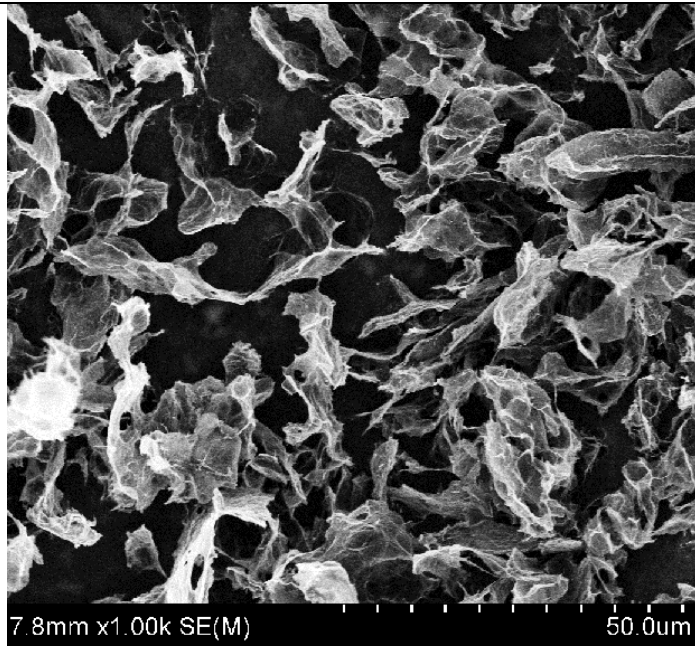


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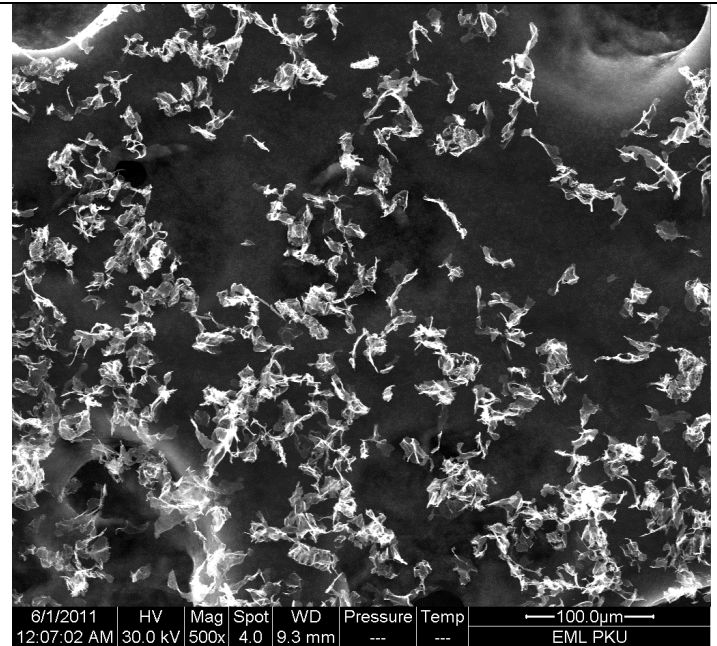
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Annex I: SEM images

GE-2011-6-23-LK-1-7A



GE-2011-6-23-LK-1-7B

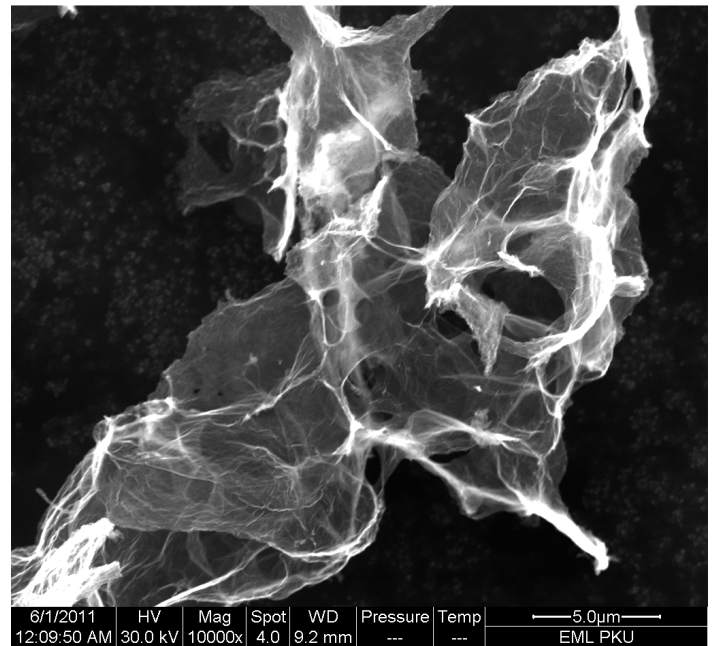
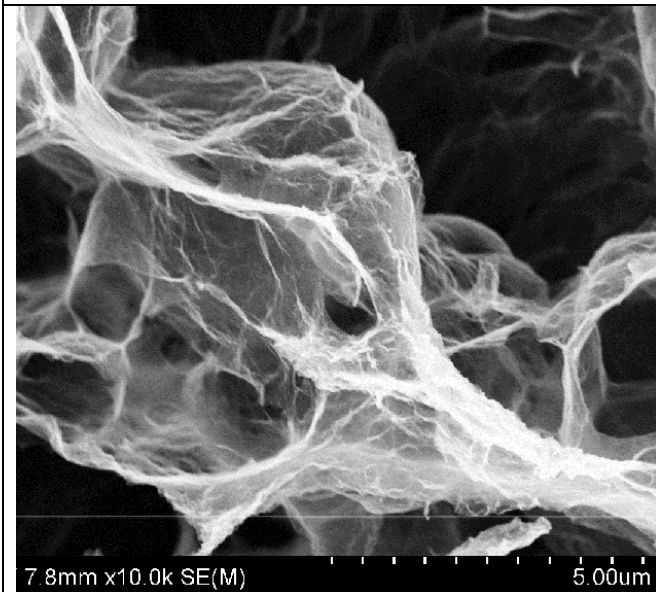
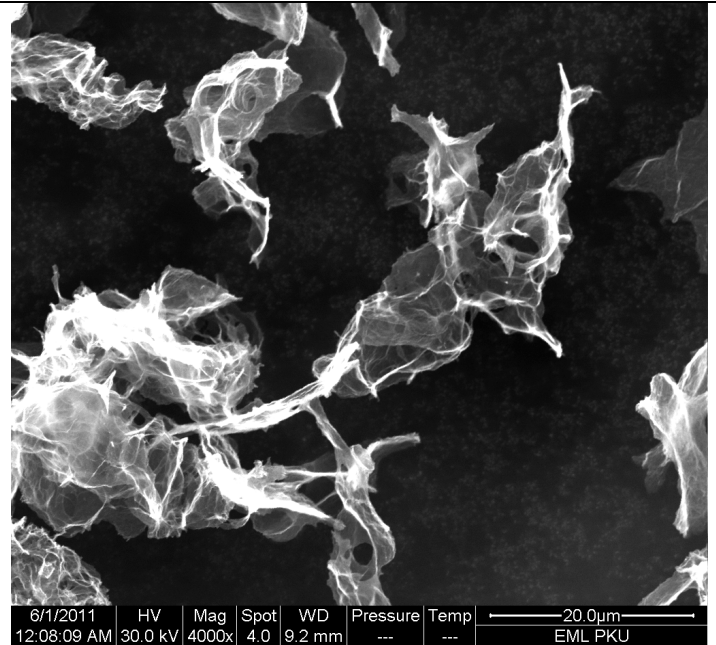
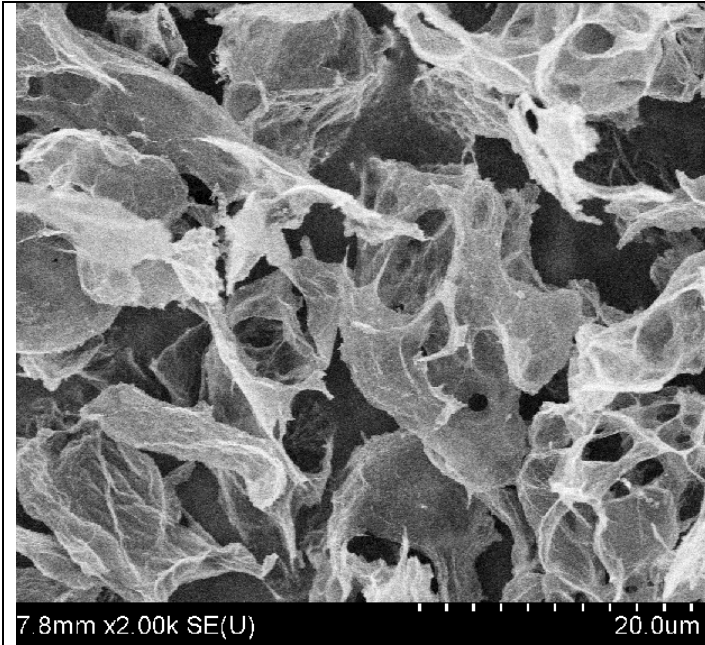


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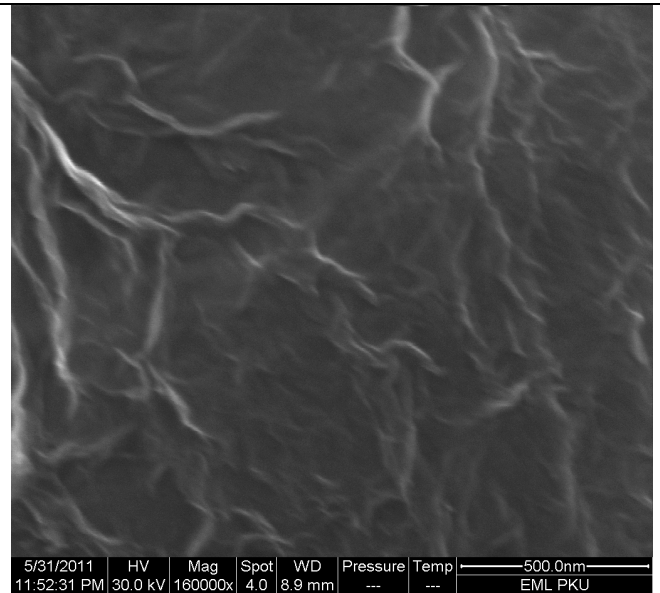
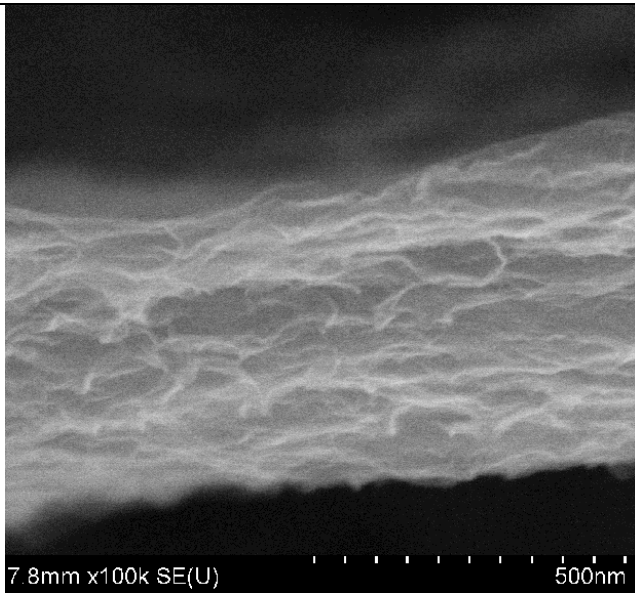
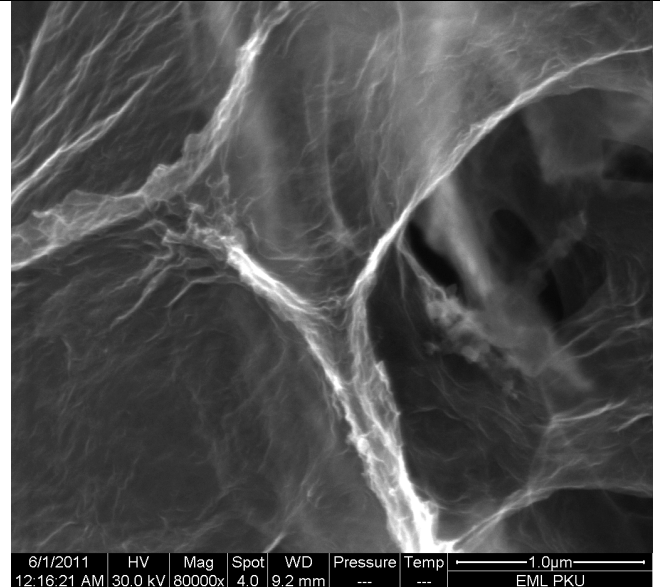
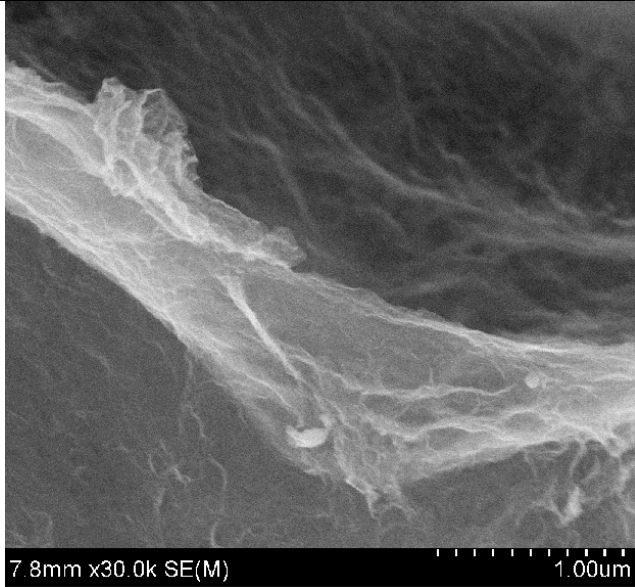
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Annex II: XRF element analysis report

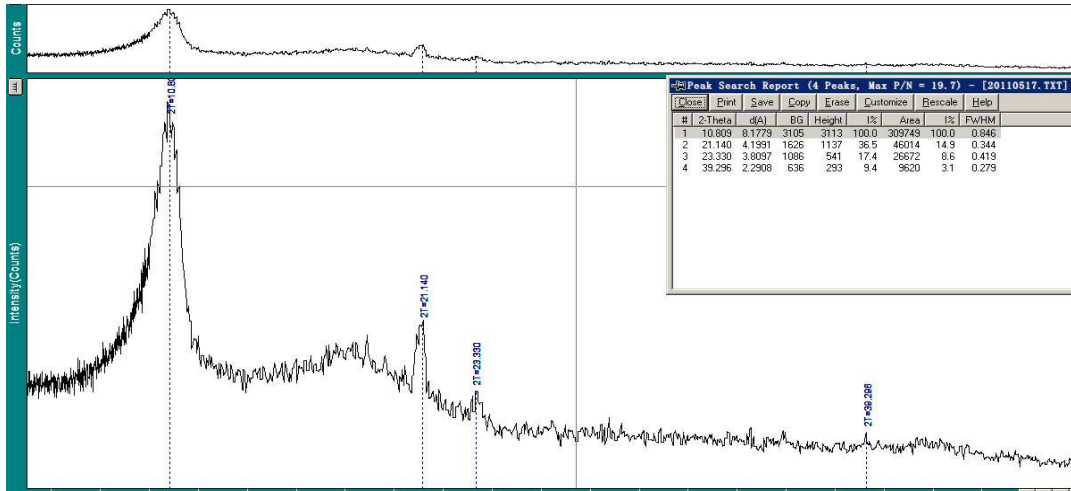
No.	组分	结果	单位	元素谱线
1	C	81.7	mass%	C-KA
2	O	16.2	mass%	O-KA
3	Na	0.245	mass%	Na-KA
4	Mg	0.0499	mass%	Mg-KA
5	Al	0.0426	mass%	Al-KA
6	Si	0.09	mass%	Si-KA
7	S	0.0754	mass%	S-KA
8	Cl μ	0.115	mass%	Cl-KA
9	K	0.0914	mass%	K-KA
10	Ca	0.252	mass%	Ca-KA
11	Mn	0.0108	mass%	Mn-KA
12	Fe	0.0402	mass%	Fe-KBI
13	Ni	0.0020	mass%	Ni-KA
14	Cu	0.0025	mass%	Cu-KA
15	Zn	0.0033	mass%	Zn-KA
16	Ga	0.0027	mass%	Ga-KA
17	Ce	0.0385	mass%	Ce-LA

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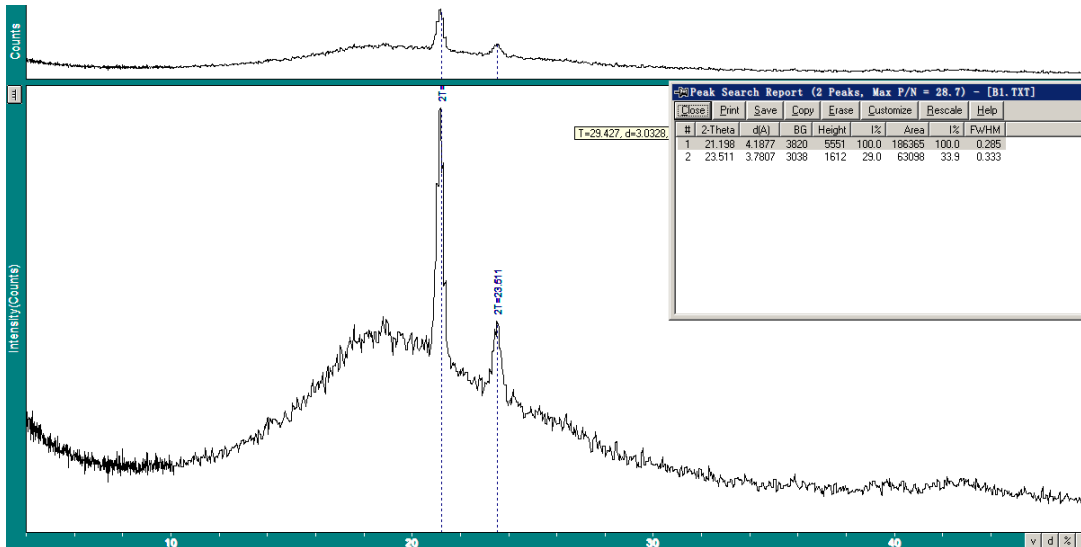


Annex III: XRD patterns

Graphene Oxide



Graphene



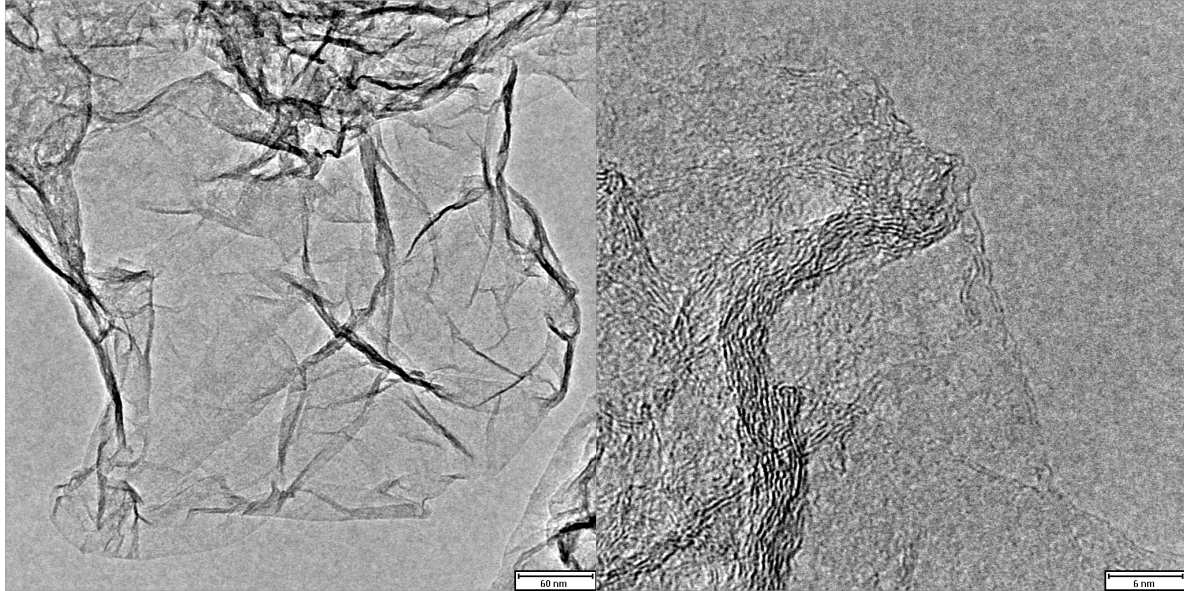
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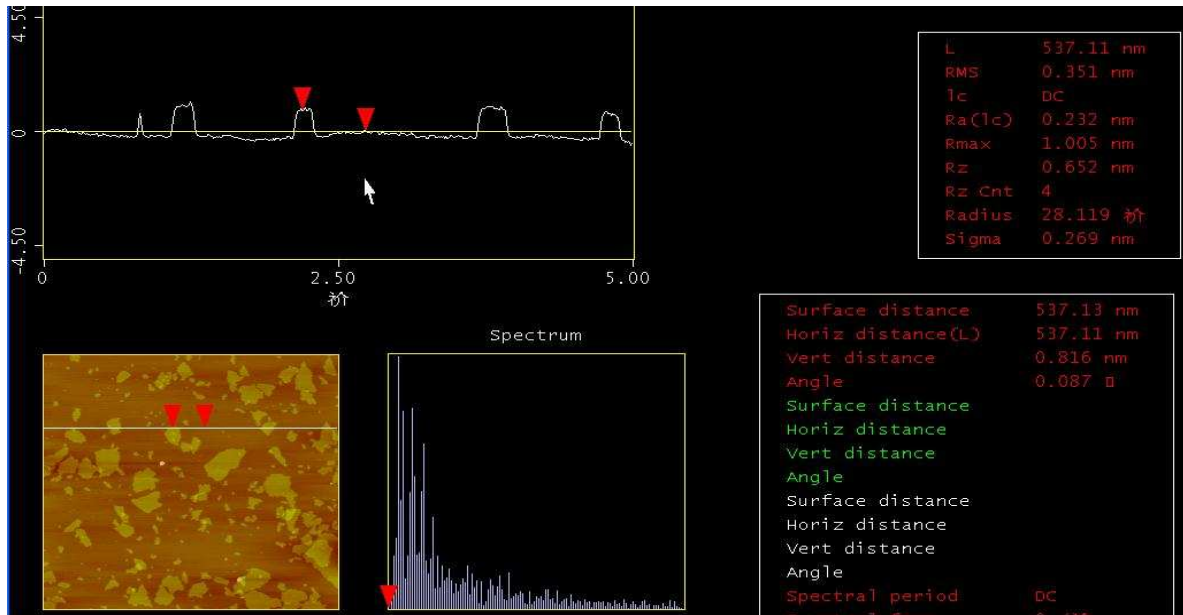
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Annex IV: TEM and HRTEM images



Annex V: AFM images



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