Quantachrome® ASiQwin™- Automated Gas Sorption Data Acquisition and Reduction
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version 4.0

Analysis				**Report**			
Operator:	quantachrome	**Date:**	2021/11/09	**Operator:**	quantachrome	**Date:**	2021/11/11
Sample ID:	ljx-1	**Filename:**		20211108-ljx-1_iq2_phisy_st1_2021_11_09_17_31_23.qps			
Sample Desc:		**Comment:**		N2- micro/mesopore analysis-general			
Sample Weight:	0.0207 g	**Instrument:**		Autosorb iQ Station 1			
Outgas Time:	12.0 hrs	**Outgas Temp.:**		200 °C			
Analysis gas:	Nitrogen	**Non-ideality:**		6.58e-05 1/Torr	**CellType:**		9mm w/o rod
Analysis Time:	26:31 hr:min	**Bath temp.:**		77.35 K			
Analysis Mode:	Standard				**VoidVol Remeasure:**		off
VoidVol. Mode:	He Measure	**Cold Zone V:**		7.66755 cc	**Warm Zone V:**		12.51 cc

Data Reduction Parameters

Thermal Transpiration: on **Eff. mol. diameter (D):** 3.54 Å **Eff. cell stem diam. (d):** 4.0000 mm

t-Method **Calc. method:** de Boer

BJH/DH method **Moving pt. avg.:** off **Ignoring P-tags below 0.35 P/Po**

HK method **Tabulated data interval:** 1

DFT method **Calc. Model:** N2 at 77 K on carbon (slit/cylindr. pores, QSDFT adsorption branch)

Rel. press. range: 0.0000 - 1.0000 **Moving pt. avg:** off

Adsorbate model **Nitrogen** **Temperature** 77.350K

Molec. Wt.: 28.013 **Cross Section:** 16.200 $Å^2$ **Liquid Density:** 0.808 g/cc

Avg. Diameter: 0.300 nm **Polarizability:** 1.460 (cc/molec) x 10^{-24} **Magn. Suscept.:** 2.000

Molec. Density 6.700 (mol/cm^2)x10^{14}

Adsorbent model **Carbon**

Atom Diameter: 0.340 nm **Surf. Atom Dens.:** 38.450 (mol/cm^2)x10^{14} **Polarizability:** 1.020 (cc/molec)x10^{-24}

Magn. Susc.: 13.500 (cc/molec)x10^{-29}

Volume/Area summary

Surface Area Data

MultiPoint BET	1.440e+03 m^2/g
Langmuir surface area	2.296e+03 m^2/g
BJH method cumulative adsorption surface area	1.099e+03 m^2/g
BJH method cumulative desorption surface area	1.318e+03 m^2/g
DH method cumulative adsorption surface area	1.120e+03 m^2/g
DH method cumulative desorption surface area	1.347e+03 m^2/g
t-method external surface area	1.440e+03 m^2/g
DFT cumulative surface area	1.330e+03 m^2/g

Pore Volume Data

Total pore volume for pores with Diameter less than 311.40 nm at P/Po = 0.993813	4.934e+00 cc/g
BJH method cumulative adsorption pore volume	4.689e+00 cc/g
BJH method cumulative desorption pore volume	4.727e+00 cc/g
DH method cumulative adsorption pore volume	4.550e+00 cc/g
DH method cumulative desorption pore volume	4.594e+00 cc/g
HK method micropore volume	5.676e-01 cc/g
SF method micropore volume	4.077e-01 cc/g
DFT method cumulative pore volume	2.618e+00 cc/g

Pore Size Data

Average pore Diameter	1.371e+01 nm
BJH method adsorption pore Diameter (Mode Dv(d))	3.829e+00 nm
BJH method desorption pore Diameter (Mode Dv(d))	3.828e+00 nm
DH method adsorption pore Diameter (Mode Dv(d))	3.829e+00 nm
DH method desorption pore Diameter (Mode Dv(d))	3.828e+00 nm
HK method pore Diameter (Mode)	6.075e-01 nm
SF method pore Diameter (Mode)	1.043e+00 nm
DFT pore Diameter (Mode)	1.007e+00 nm

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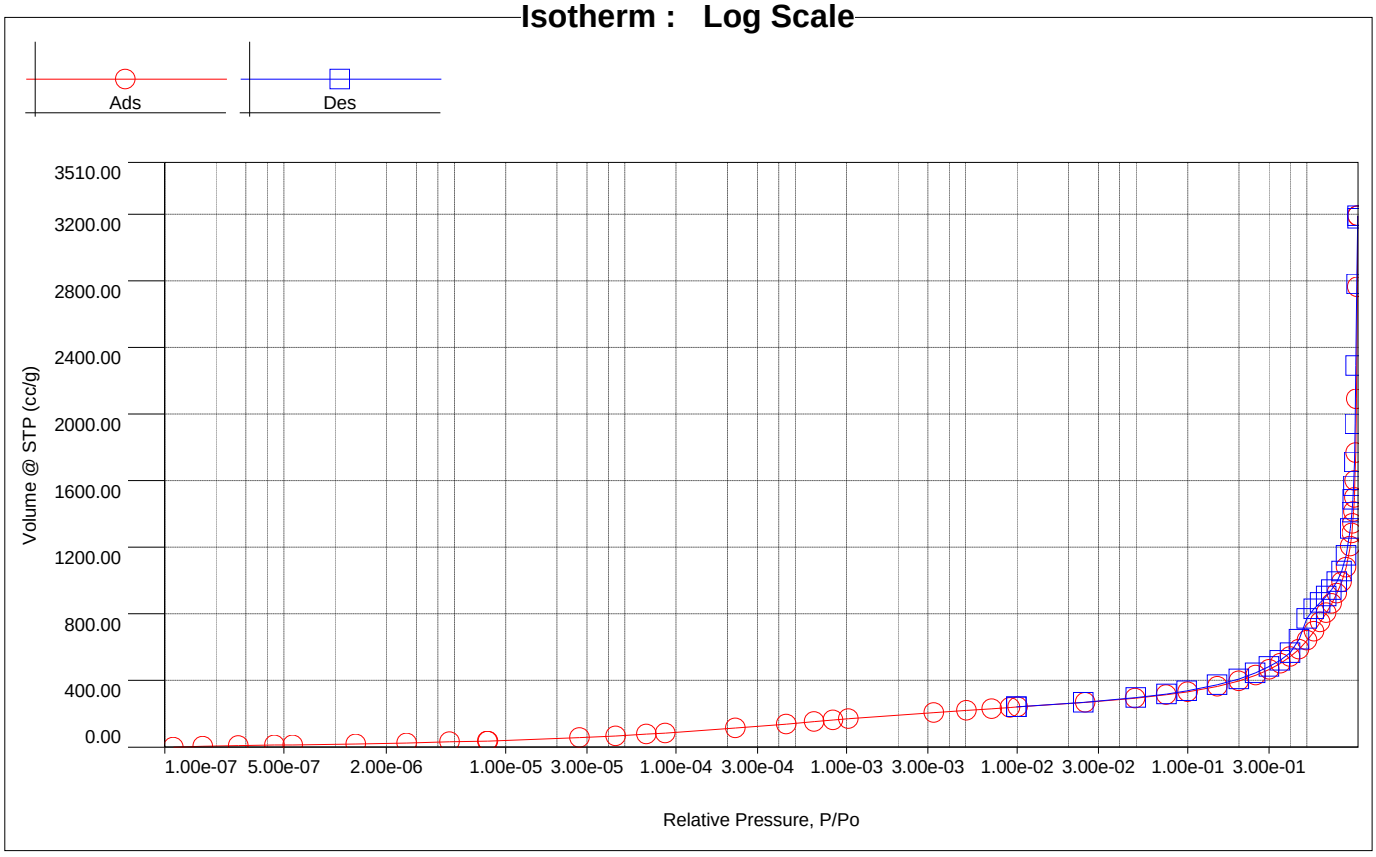
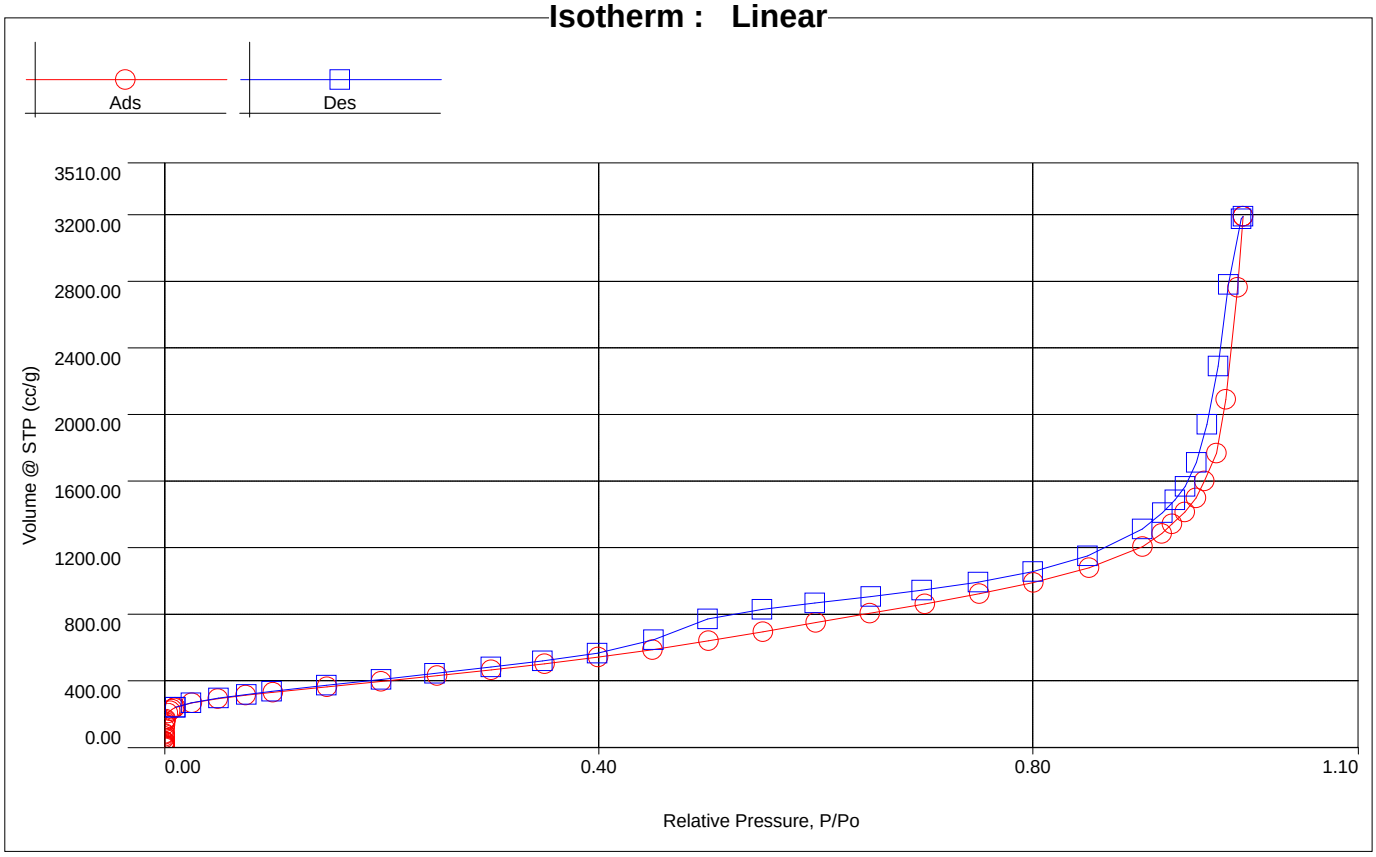
Isotherm : Log Scale



Isotherm : Linear



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Isotherm

Relative Pressure	Volume @ STP [cc/g]	Relative Pressure	Volume @ STP [cc/g]	Relative Pressure	Volume @ STP [cc/g]
1.12778e-07	0.0440	1.49642e-01	365.1429	9.60629e-01	1940.1536
1.67741e-07	5.9264	1.99578e-01	397.8543	9.50869e-01	1712.5763
2.70723e-07	8.8568	2.51176e-01	431.7263	9.40664e-01	1567.2690
4.40880e-07	11.7850	3.00977e-01	466.1892	9.31179e-01	1487.6022
5.64305e-07	13.2463	3.50305e-01	502.5192	9.19456e-01	1409.1277
1.32245e-06	19.1472	3.99485e-01	542.6978	9.01020e-01	1311.6534
2.63446e-06	25.0362	4.49771e-01	588.0463	8.50600e-01	1150.9975
4.70053e-06	30.8993	5.01351e-01	641.1416	7.99971e-01	1056.3514
7.83237e-06	36.7569	5.51545e-01	694.8266	7.49667e-01	993.1291
7.87662e-06	36.8397	6.00158e-01	750.7049	6.97930e-01	945.4796
2.71946e-05	56.6722	6.50004e-01	806.3935	6.50837e-01	906.8908
4.42044e-05	67.0499	7.00900e-01	862.7201	5.99291e-01	867.0336
6.69679e-05	77.2541	7.50770e-01	923.1491	5.50696e-01	829.0691
8.65106e-05	84.1815	8.00635e-01	991.7561	5.00484e-01	772.7626
2.23115e-04	113.8091	8.52163e-01	1078.7558	4.50537e-01	647.7431
4.43899e-04	138.3922	9.01242e-01	1206.8794	3.98717e-01	566.1411
6.46093e-04	152.5057	9.18954e-01	1284.8534	3.48161e-01	520.2919
8.31764e-04	161.8714	9.28600e-01	1342.6961	3.00674e-01	482.6729
1.02697e-03	169.5238	9.40061e-01	1412.8182	2.48966e-01	444.4416
3.25456e-03	207.5989	9.50413e-01	1497.8539	1.99569e-01	409.0985
5.06308e-03	220.7417	9.58140e-01	1599.9974	1.49201e-01	373.6017
7.09699e-03	230.4627	9.69364e-01	1768.2337	9.88427e-02	337.1539
9.08054e-03	237.5126	9.77916e-01	2090.0115	7.52485e-02	318.8738
1.00715e-02	240.4804	9.88831e-01	2763.8387	4.97389e-02	296.8748
2.51644e-02	267.6202	9.93813e-01	3189.9785	2.45201e-02	268.9582
4.91869e-02	292.8193	9.91986e-01	3174.3459	9.90388e-03	240.8052
7.48520e-02	313.6097	9.80485e-01	2781.0408		
9.99760e-02	331.7200	9.70904e-01	2290.6839		

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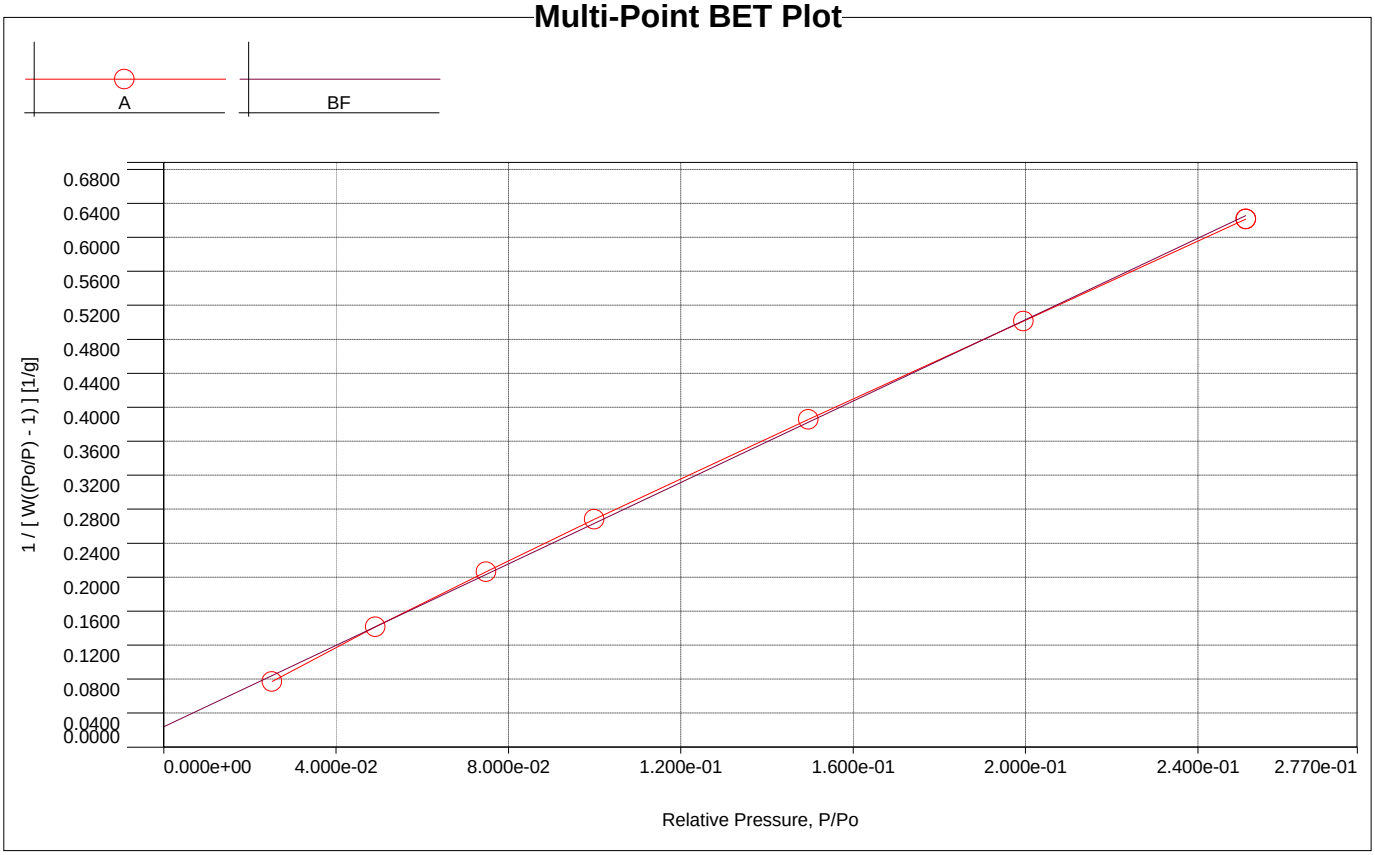
Multi-Point BET Plot



Multi-Point BET

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((Po/P) - 1)] [1/g]	Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((Po/P) - 1)] [1/g]
2.51644e-02	267.6202	7.7177e-02	1.49642e-01	365.1429	3.8560e-01
4.91869e-02	292.8193	1.4135e-01	1.99578e-01	397.8543	5.0144e-01
7.48520e-02	313.6097	2.0642e-01	2.51176e-01	431.7263	6.2164e-01
9.99760e-02	331.7200	2.6793e-01			

MBET summary

Slope = 2.395 1/g
Intercept = 2.380e-02 1/g
Correlation coefficient, r = 0.999773
C constant= 101.635

Surface Area = 1439.615 m²/g

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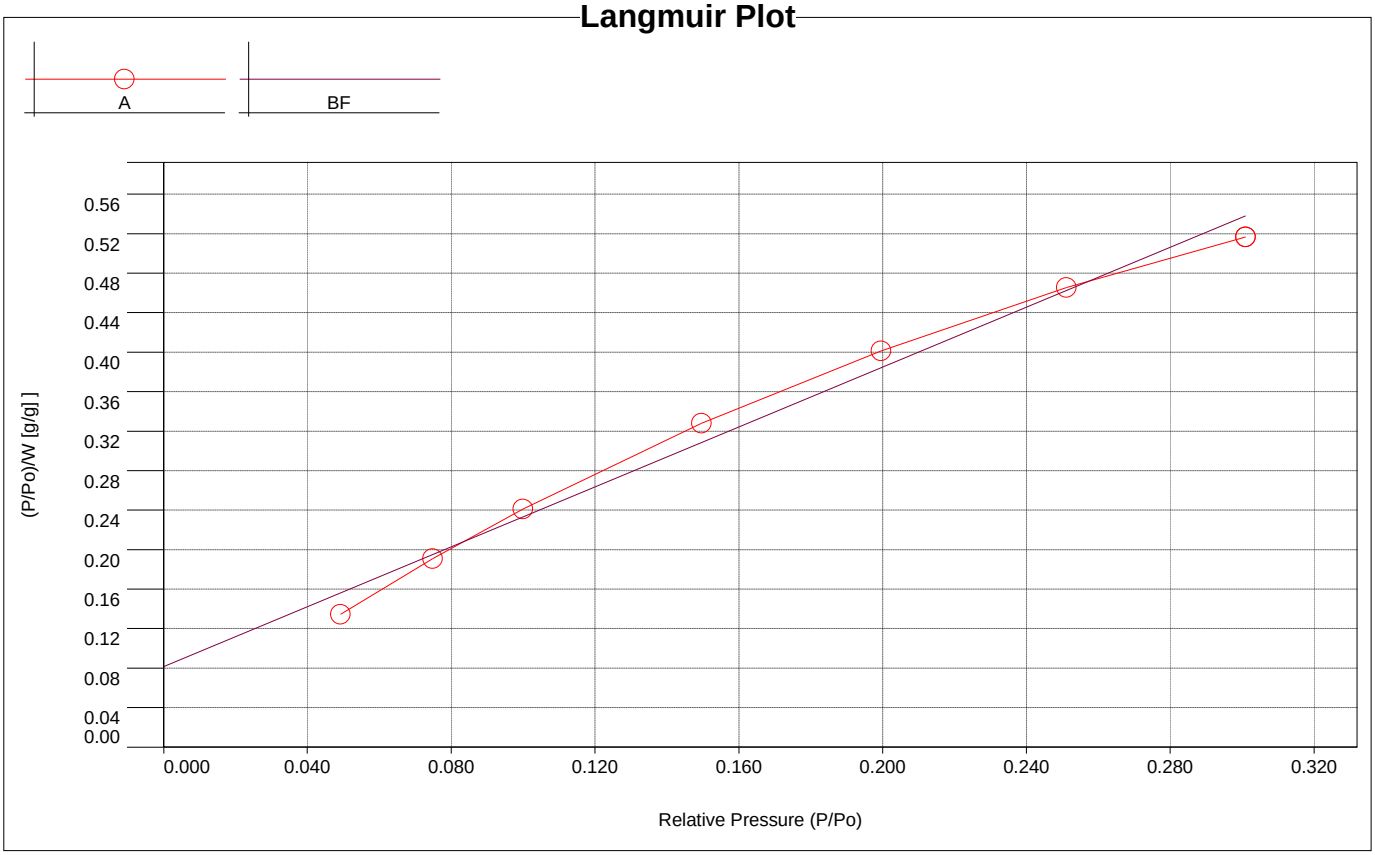
Langmuir Plot



Langmuir

P/Po	P/Po/W [(g/g)]	P/Po	P/Po/W [(g/g)]
4.91869e-02	1.3440e-01	1.99578e-01	4.0137e-01
7.48520e-02	1.9097e-01	2.51176e-01	4.6550e-01
9.99760e-02	2.4114e-01	3.00977e-01	5.1656e-01
1.49642e-01	3.2790e-01		

LangMuir summary

Slope = 1.51676
Intercept = 0.08156
Correlation coefficient, r = 0.993

Surface Area = 2296.019 m²/g

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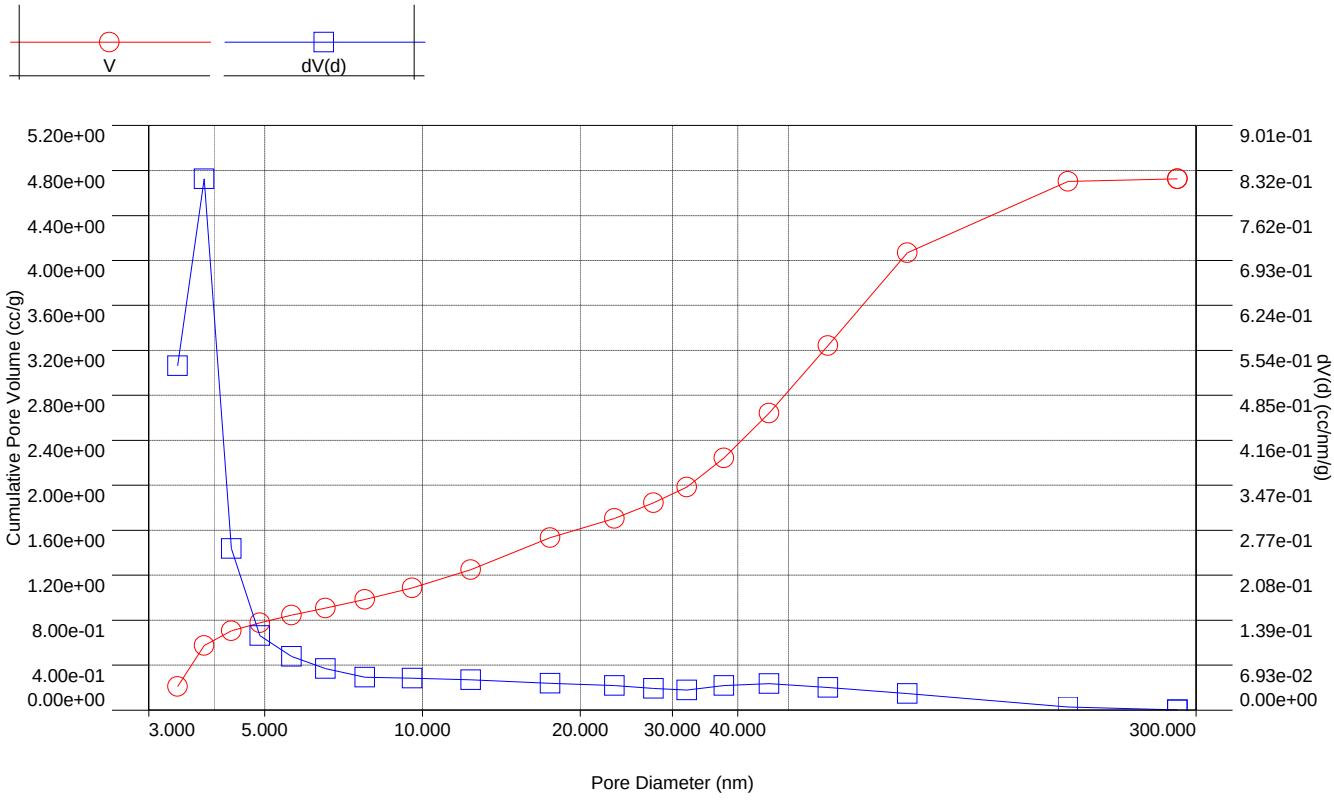
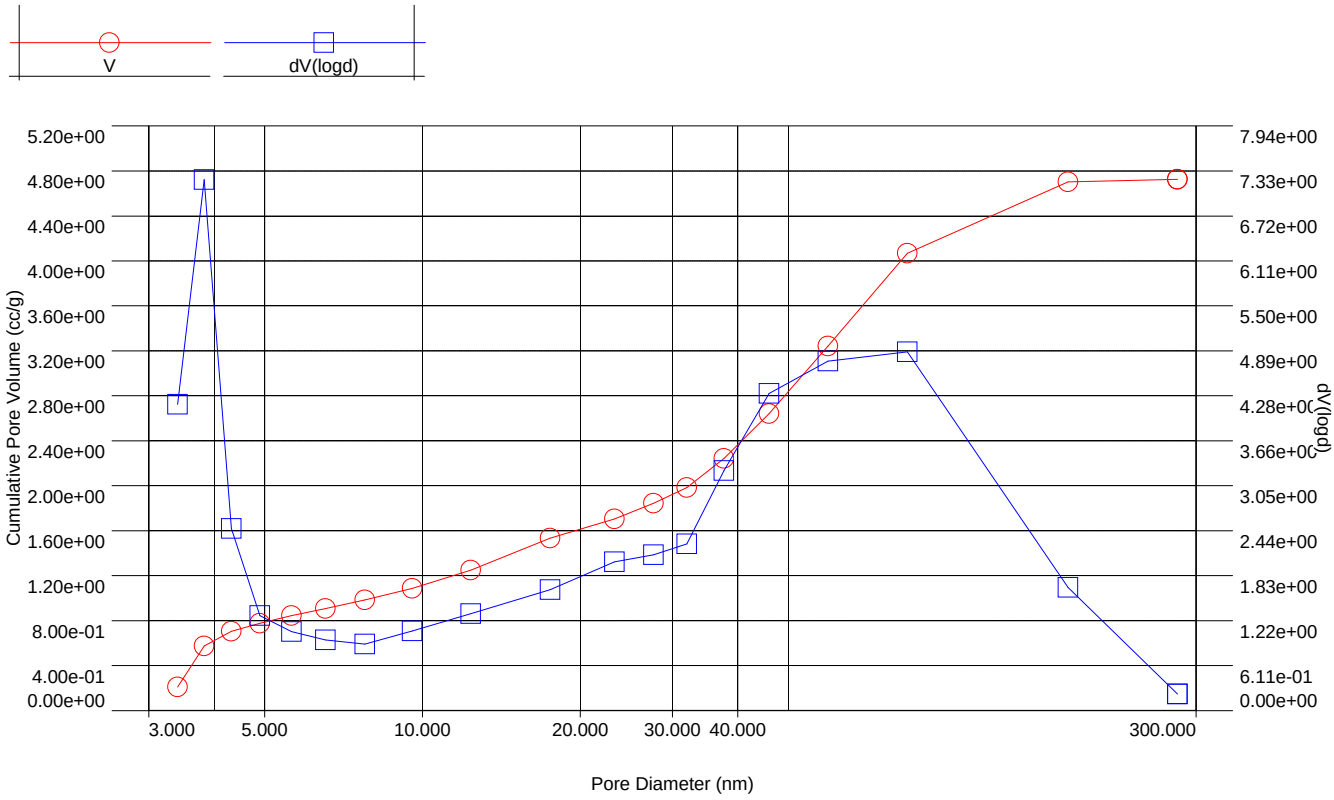
BJH method Desorption dV()



BJH method Desorption dV(log)



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Desorption

Diameter [nm]	Pore Volume [cc/g]	Pore Surf Area [m²/g]	dV(d) [cc/nm/g]	dS(d) [m²/nm/g]	dV(logd) [cc/g]	dS(logd) [cc/g]
3.4092	2.0943e-01	2.4573e+02	5.3054e-01	6.2247e+02	4.1601e+00	4.8810e+03
3.8284	5.7275e-01	6.2532e+02	8.1887e-01	8.5557e+02	7.2105e+00	7.5336e+03
4.3155	7.0482e-01	7.4774e+02	2.4901e-01	2.3080e+02	2.4712e+00	2.2906e+03
4.8927	7.7633e-01	8.0620e+02	1.1459e-01	9.3680e+01	1.2892e+00	1.0540e+03
5.6205	8.4532e-01	8.5530e+02	8.2965e-02	5.9044e+01	1.0717e+00	7.6274e+02
6.5290	9.0843e-01	8.9396e+02	6.4041e-02	3.9234e+01	9.6093e-01	5.8871e+02
7.7602	9.8336e-01	9.3259e+02	5.0733e-02	2.6150e+01	9.0379e-01	4.6586e+02
9.5585	1.0878e+00	9.7630e+02	4.9286e-02	2.0625e+01	1.0803e+00	4.5207e+02
12.3643	1.2506e+00	1.0290e+03	4.6606e-02	1.5078e+01	1.3180e+00	4.2639e+02
17.5385	1.5327e+00	1.0933e+03	4.1154e-02	9.3859e+00	1.6406e+00	3.7416e+02
23.2554	1.7061e+00	1.1231e+03	3.7871e-02	6.5139e+00	2.0213e+00	3.4767e+02
27.6216	1.8447e+00	1.1432e+03	3.3349e-02	4.8294e+00	2.1170e+00	3.0657e+02
31.9687	1.9846e+00	1.1607e+03	3.0831e-02	3.8577e+00	2.2657e+00	2.8349e+02
37.6419	2.2415e+00	1.1880e+03	3.7734e-02	4.0098e+00	3.2616e+00	3.4659e+02
45.9272	2.6405e+00	1.2228e+03	4.0871e-02	3.5597e+00	4.3059e+00	3.7502e+02
59.4476	3.2436e+00	1.2633e+03	3.4907e-02	2.3488e+00	4.7444e+00	3.1923e+02
84.2723	4.0670e+00	1.3024e+03	2.5436e-02	1.2073e+00	4.8743e+00	2.3136e+02
170.7560	4.7020e+00	1.3173e+03	4.5166e-03	1.0580e-01	1.6705e+00	3.9132e+01
276.2286	4.7269e+00	1.3177e+03	3.5354e-04	5.1196e-03	2.2365e-01	3.2386e+00

BJH desorption summary

Surface Area = 1317.650 m²/g
Pore Volume = 4.727 cc/g
Pore Diameter Dv(d) = 3.828 nm

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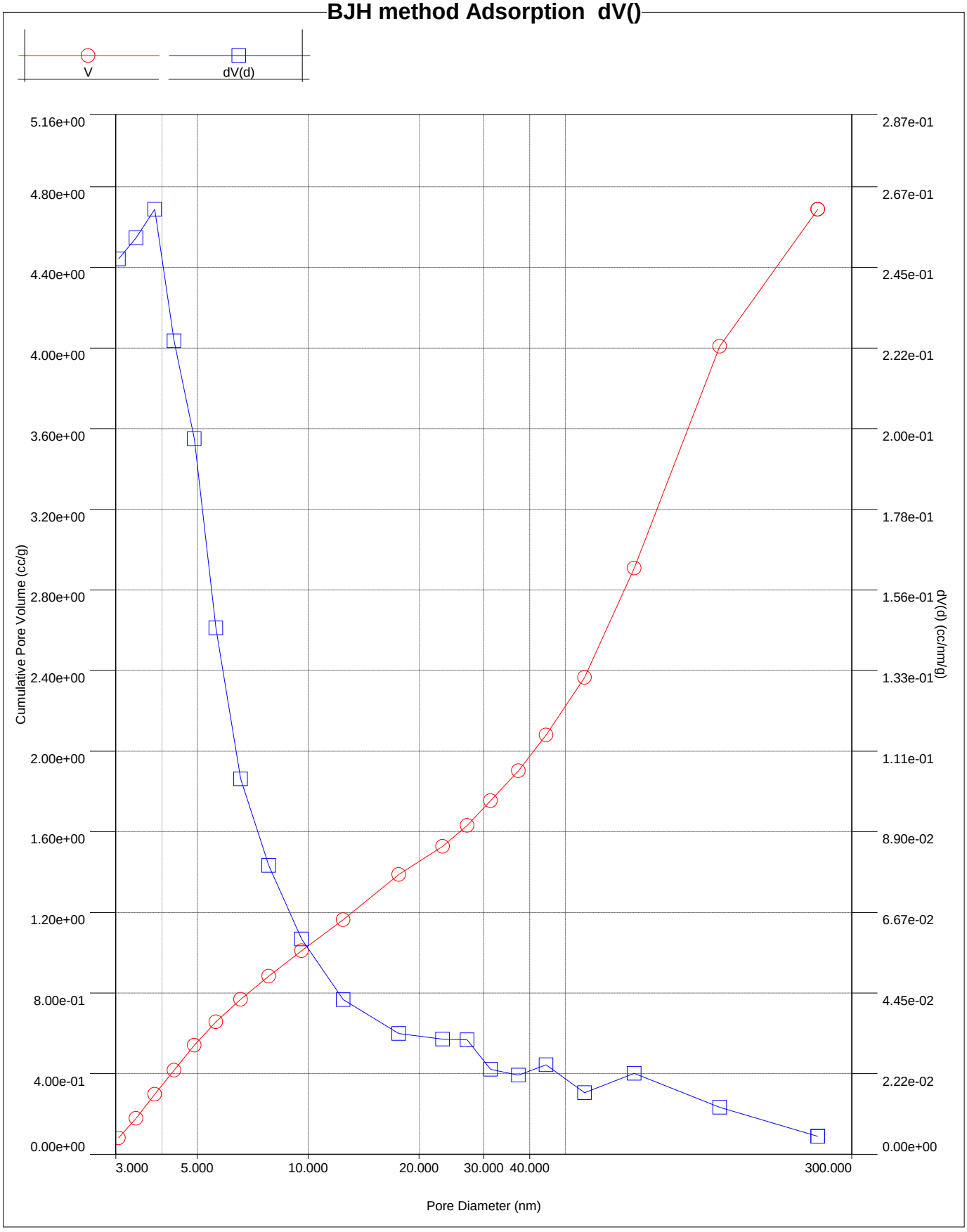
BJH method Adsorption dV()



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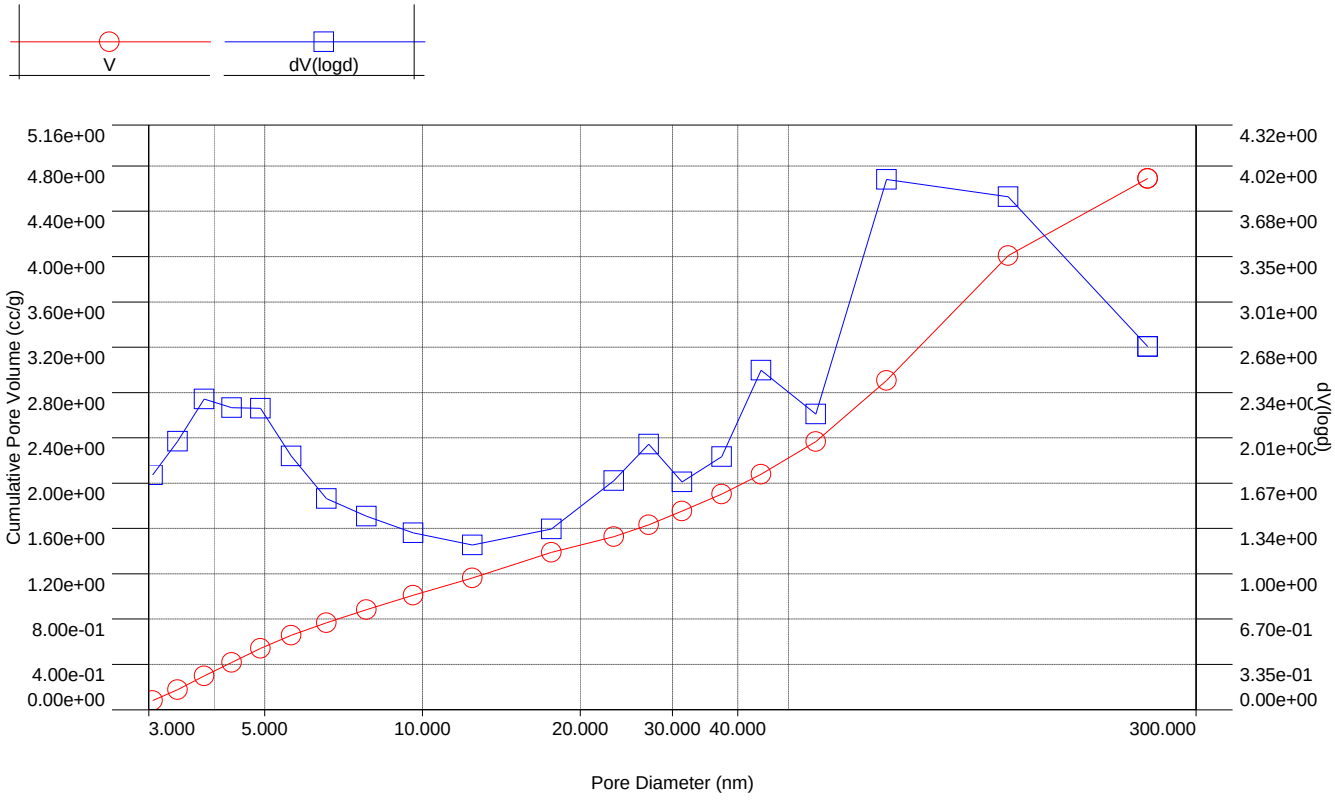
BJH method Adsorption dV(log)



Adsorption

Diameter [nm]	Pore Volume [cc/g]	Pore Surf Area [m²/g]	dV(d) [cc/nm/g]	dS(d) [m²/nm/g]	dV(logd) [cc/g]	dS(logd) [cc/g]
3.0529	8.1225e-02	1.0642e+02	2.4702e-01	3.2366e+02	1.7348e+00	2.2730e+03
3.4088	1.7810e-01	2.2010e+02	2.5292e-01	2.9678e+02	1.9831e+00	2.3270e+03
3.8295	2.9763e-01	3.4496e+02	2.6081e-01	2.7242e+02	2.2970e+00	2.3992e+03
4.3246	4.1704e-01	4.5540e+02	2.2449e-01	2.0764e+02	2.2326e+00	2.0650e+03
4.9038	5.4075e-01	5.5631e+02	1.9746e-01	1.6107e+02	2.2266e+00	1.8162e+03
5.6191	6.5753e-01	6.3944e+02	1.4525e-01	1.0340e+02	1.8760e+00	1.3355e+03
6.5573	7.6862e-01	7.0721e+02	1.0359e-01	6.3189e+01	1.5605e+00	9.5194e+02
7.8150	8.8364e-01	7.6608e+02	7.9710e-02	4.0798e+01	1.4303e+00	7.3206e+02
9.5948	1.0094e+00	8.1850e+02	5.9409e-02	2.4767e+01	1.3072e+00	5.4495e+02
12.4538	1.1633e+00	8.6792e+02	4.2724e-02	1.3722e+01	1.2166e+00	3.9075e+02
17.6333	1.3885e+00	9.1903e+02	3.3339e-02	7.5627e+00	1.3369e+00	3.0327e+02
23.2022	1.5278e+00	9.4303e+02	3.1787e-02	5.4799e+00	1.6932e+00	2.9190e+02
27.0313	1.6313e+00	9.5835e+02	3.1591e-02	4.6747e+00	1.9639e+00	2.9060e+02
31.2888	1.7541e+00	9.7405e+02	2.3439e-02	2.9964e+00	1.6847e+00	2.1537e+02
37.2950	1.9021e+00	9.8992e+02	2.1848e-02	2.3432e+00	1.8710e+00	2.0067e+02
44.2866	2.0799e+00	1.0060e+03	2.4662e-02	2.2275e+00	2.5094e+00	2.2665e+02
56.3282	2.3663e+00	1.0263e+03	1.6976e-02	1.2055e+00	2.1853e+00	1.5518e+02
76.8999	2.9082e+00	1.0545e+03	2.2326e-02	1.1613e+00	3.9201e+00	2.0391e+02
131.3683	4.0084e+00	1.0880e+03	1.2994e-02	3.9567e-01	3.7906e+00	1.1542e+02
242.5529	4.6887e+00	1.0992e+03	4.9402e-03	8.1471e-02	2.6833e+00	4.4252e+01

BJH adsorption summary

Surface Area = 1099.223 m²/g
Pore Volume = 4.689 cc/g
Pore Diameter Dv(d) = 3.829 nm

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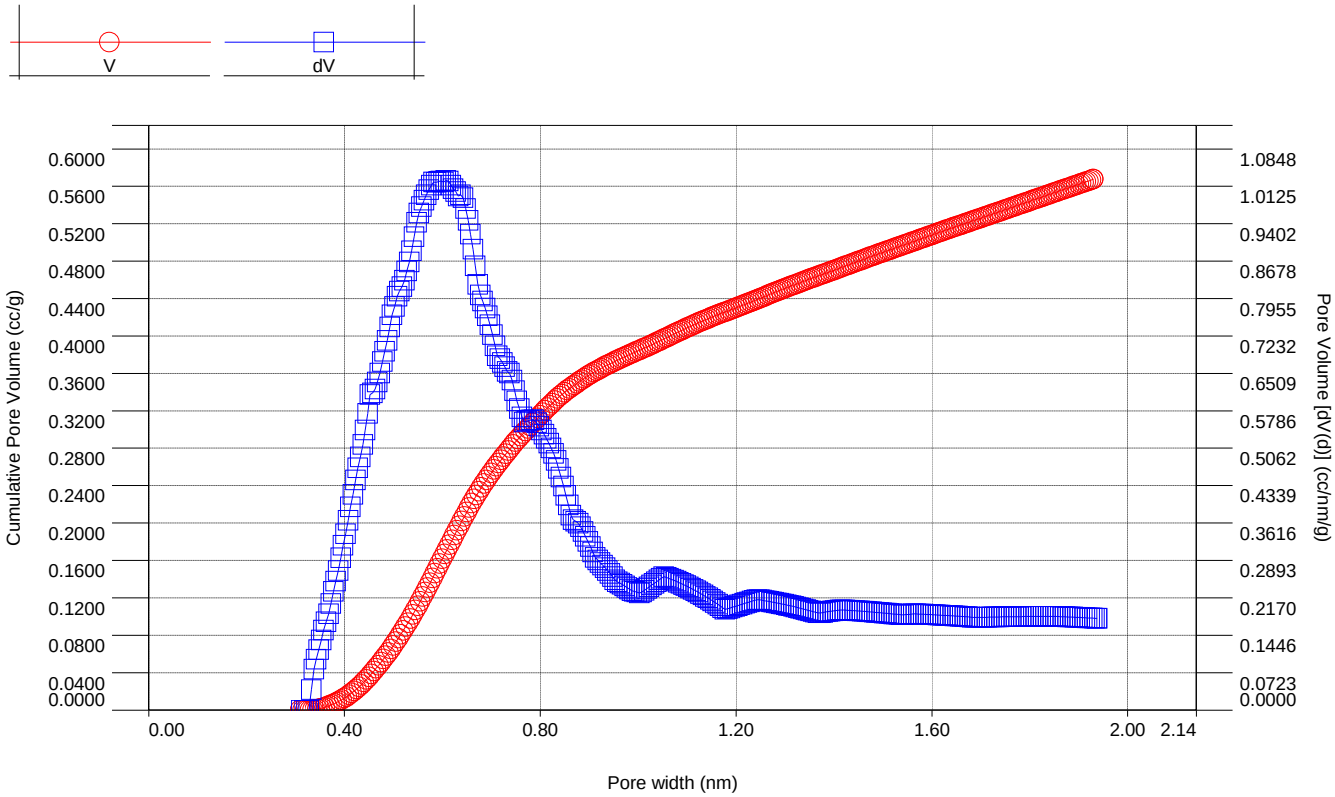
HK method : Volume



Pore Size Distribution

Pore width [nm]	dV() [cc/nm/g]	Pore width [nm]	dV() [cc/nm/g]
0.3125	0.00000	0.4575	0.61272
0.3175	0.00000	0.4625	0.62042
0.3225	0.00000	0.4675	0.63423
0.3275	0.00000	0.4725	0.65127
0.3325	0.03926	0.4775	0.67364
0.3375	0.07911	0.4825	0.69361
0.3425	0.09798	0.4875	0.71479
0.3475	0.11702	0.4925	0.74054
0.3525	0.13520	0.4975	0.76371
0.3575	0.15417	0.5025	0.78033
0.3625	0.17031	0.5075	0.80017
0.3675	0.18616	0.5125	0.81006
0.3725	0.20566	0.5175	0.81878
0.3775	0.22954	0.5225	0.83091
0.3825	0.24943	0.5275	0.84862
0.3875	0.26974	0.5325	0.86584
0.3925	0.29421	0.5375	0.88751
0.3975	0.31850	0.5425	0.91495
0.4025	0.34063	0.5475	0.94263
0.4075	0.36692	0.5525	0.96080
0.4125	0.39266	0.5575	0.97339
0.4175	0.41676	0.5625	0.98532
0.4225	0.44499	0.5675	0.99633
0.4275	0.46797	0.5725	1.00610
0.4325	0.48897	0.5775	1.01431
0.4375	0.51326	0.5825	1.02059
0.4425	0.54124	0.5875	1.02022
0.4475	0.57337	0.5925	1.02198
0.4525	0.61011	0.5975	1.02263

Continued on next page

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Pore Size Distribution continued

Pore width [nm]	dV() [cc/nm/g]	Pore width [nm]	dV() [cc/nm/g]
0.6025	1.02116	0.9325	0.27498
0.6075	1.02376	0.9375	0.26949
0.6125	1.02262	0.9425	0.26377
0.6175	1.01478	0.9475	0.25783
0.6225	1.00783	0.9525	0.25166
0.6275	1.00245	0.9575	0.24782
0.6325	0.99368	0.9625	0.24534
0.6375	0.99616	0.9675	0.24272
0.6425	0.99026	0.9725	0.23996
0.6475	0.96962	0.9775	0.23706
0.6525	0.94635	0.9825	0.23402
0.6575	0.92023	0.9875	0.23084
0.6625	0.89107	0.9925	0.22910
0.6675	0.85863	0.9975	0.22782
0.6725	0.82271	1.0025	0.22644
0.6775	0.80244	1.0075	0.22804
0.6825	0.79067	1.0125	0.23142
0.6875	0.77721	1.0175	0.23479
0.6925	0.76193	1.0225	0.23815
0.6975	0.74472	1.0275	0.24150
0.7025	0.72547	1.0325	0.24483
0.7075	0.70404	1.0375	0.24814
0.7125	0.68461	1.0425	0.25144
0.7175	0.67896	1.0475	0.25473
0.7225	0.67211	1.0525	0.25799
0.7275	0.66398	1.0575	0.25665
0.7325	0.65450	1.0625	0.25484
0.7375	0.65148	1.0675	0.25297
0.7425	0.63789	1.0725	0.25102
0.7475	0.61723	1.0775	0.24901
0.7525	0.59768	1.0825	0.24694
0.7575	0.58276	1.0875	0.24479
0.7625	0.56666	1.0925	0.24257
0.7675	0.55643	1.0975	0.24029
0.7725	0.55823	1.1025	0.23794
0.7775	0.55975	1.1075	0.23552
0.7825	0.56098	1.1125	0.23303
0.7875	0.56135	1.1175	0.23047
0.7925	0.55518	1.1225	0.22785
0.7975	0.54849	1.1275	0.22516
0.8025	0.54124	1.1325	0.22239
0.8075	0.53343	1.1375	0.21957
0.8125	0.52503	1.1425	0.21667
0.8175	0.51603	1.1475	0.21371
0.8225	0.50641	1.1525	0.21068
0.8275	0.49615	1.1575	0.20758
0.8325	0.48267	1.1625	0.20442
0.8375	0.46694	1.1675	0.20119
0.8425	0.45044	1.1725	0.19790
0.8475	0.43314	1.1775	0.19453
0.8525	0.41503	1.1825	0.19571
0.8575	0.39609	1.1875	0.19725
0.8625	0.37631	1.1925	0.19878
0.8675	0.36822	1.1975	0.20030
0.8725	0.36490	1.2025	0.20180
0.8775	0.36133	1.2075	0.20328
0.8825	0.35439	1.2125	0.20475
0.8875	0.34531	1.2175	0.20620
0.8925	0.33585	1.2225	0.20764
0.8975	0.32602	1.2275	0.20906
0.9025	0.31582	1.2325	0.21047
0.9075	0.30523	1.2375	0.21185
0.9125	0.29479	1.2425	0.21323
0.9175	0.29016	1.2475	0.21319
0.9225	0.28532	1.2525	0.21243
0.9275	0.28026	1.2575	0.21164

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Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

Report
Operator: quantachrome **Date:**2021/11/11
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Pore Size Distribution continued

Pore width [nm]	dV() [cc/nm/g]	Pore width [nm]	dV() [cc/nm/g]
1.2625	0.21082	1.5925	0.18468
1.2675	0.20998	1.5975	0.18445
1.2725	0.20911	1.6025	0.18421
1.2775	0.20821	1.6075	0.18397
1.2825	0.20729	1.6125	0.18371
1.2875	0.20635	1.6175	0.18345
1.2925	0.20538	1.6225	0.18319
1.2975	0.20438	1.6275	0.18291
1.3025	0.20336	1.6325	0.18263
1.3075	0.20232	1.6375	0.18234
1.3125	0.20125	1.6425	0.18205
1.3175	0.20016	1.6475	0.18175
1.3225	0.19904	1.6525	0.18144
1.3275	0.19790	1.6575	0.18112
1.3325	0.19674	1.6625	0.18080
1.3375	0.19555	1.6675	0.18047
1.3425	0.19434	1.6725	0.18014
1.3475	0.19310	1.6775	0.17980
1.3525	0.19185	1.6825	0.17945
1.3575	0.19057	1.6875	0.17910
1.3625	0.18926	1.6925	0.17903
1.3675	0.18794	1.6975	0.17917
1.3725	0.18799	1.7025	0.17930
1.3775	0.18872	1.7075	0.17943
1.3825	0.18945	1.7125	0.17955
1.3875	0.19017	1.7175	0.17967
1.3925	0.19087	1.7225	0.17979
1.3975	0.19156	1.7275	0.17989
1.4025	0.19224	1.7325	0.18000
1.4075	0.19291	1.7375	0.18009
1.4125	0.19357	1.7425	0.18019
1.4175	0.19343	1.7475	0.18027
1.4225	0.19318	1.7525	0.18036
1.4275	0.19292	1.7575	0.18044
1.4325	0.19264	1.7625	0.18051
1.4375	0.19235	1.7675	0.18058
1.4425	0.19205	1.7725	0.18065
1.4475	0.19173	1.7775	0.18071
1.4525	0.19141	1.7825	0.18076
1.4575	0.19107	1.7875	0.18081
1.4625	0.19071	1.7925	0.18086
1.4675	0.19035	1.7975	0.18090
1.4725	0.18997	1.8025	0.18094
1.4775	0.18959	1.8075	0.18098
1.4825	0.18919	1.8125	0.18101
1.4875	0.18878	1.8175	0.18103
1.4925	0.18836	1.8225	0.18106
1.4975	0.18792	1.8275	0.18108
1.5025	0.18748	1.8325	0.18109
1.5075	0.18702	1.8375	0.18110
1.5125	0.18656	1.8425	0.18111
1.5175	0.18608	1.8475	0.18111
1.5225	0.18559	1.8525	0.18108
1.5275	0.18510	1.8575	0.18088
1.5325	0.18459	1.8625	0.18068
1.5375	0.18407	1.8675	0.18048
1.5425	0.18433	1.8725	0.18027
1.5475	0.18468	1.8775	0.18006
1.5525	0.18502	1.8825	0.17984
1.5575	0.18536	1.8875	0.17963
1.5625	0.18569	1.8925	0.17941
1.5675	0.18572	1.8975	0.17918
1.5725	0.18552	1.9025	0.17896
1.5775	0.18533	1.9075	0.17873
1.5825	0.18512	1.9125	0.17849
1.5875	0.18490	1.9175	0.17826

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Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

Report
Operator: quantachrome **Date:**2021/11/11
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Pore Size Distribution continued

Pore width [nm]	dV() [cc/nm/g]	Pore width [nm]	dV() [cc/nm/g]
1.9225	0.17802	1.9325	0.17753
1.9275	0.17777	1.9375	0.17728

HK summary

Mode : 0.608 nm
Micropore Volume : 0.568 cc/g

Analysis
Operator: quantachrome **Date:**2021/11/09
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Operator: quantachrome **Date:**2021/11/11
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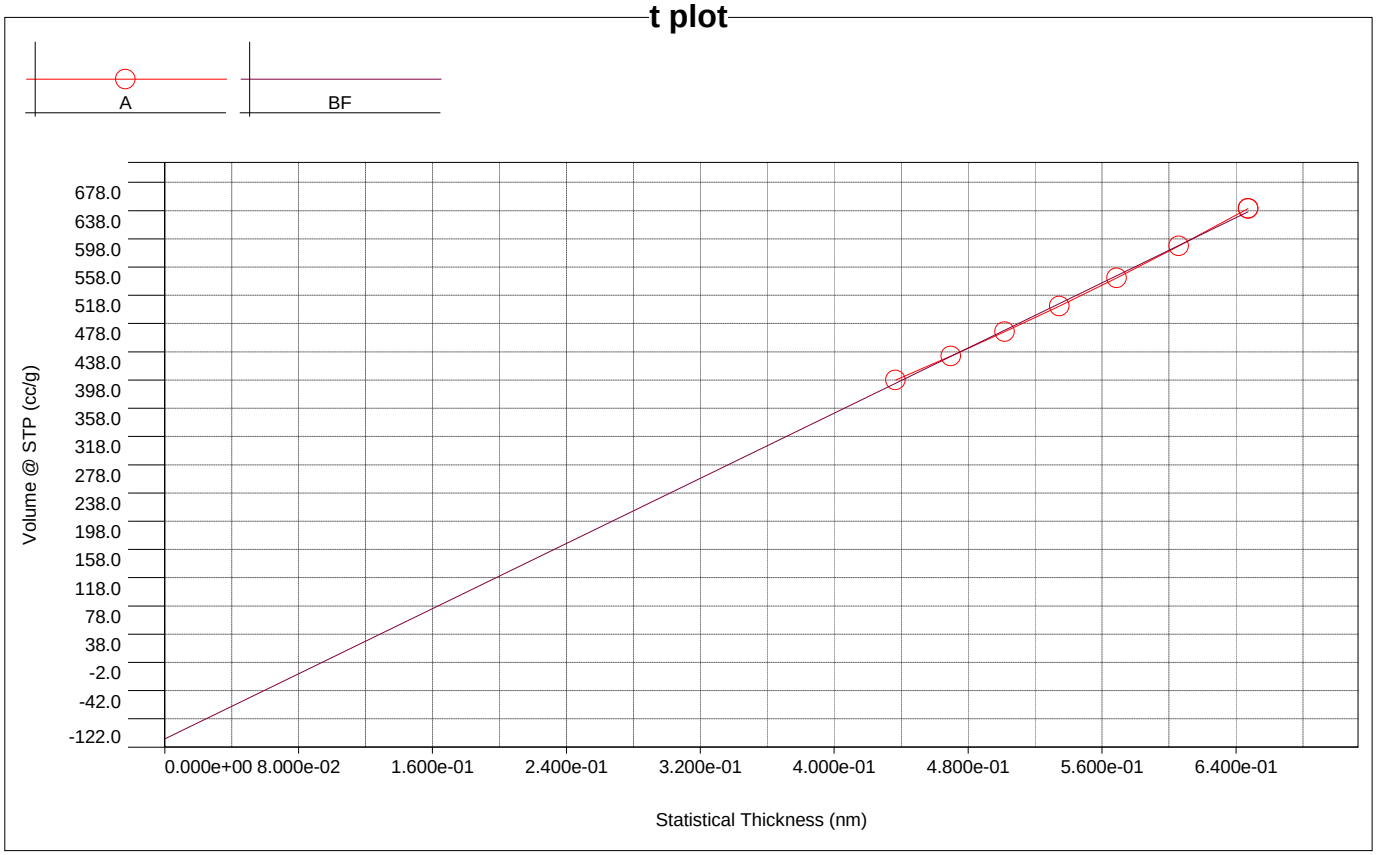
t plot



t-Plot Method Micropore Analysis

Relative Pressure	Thickness [(nm)]	Volume @ STP [(cc/g)]	Relative Pressure	Thickness [(nm)]	Volume @ STP [(cc/g)]
1.995784e-01	4.3661e-01	397.854	3.994853e-01	5.6874e-01	542.698
2.511760e-01	4.6974e-01	431.726	4.497706e-01	6.0596e-01	588.046
3.009773e-01	5.0186e-01	466.189	5.013512e-01	6.4733e-01	641.142
3.503050e-01	5.3458e-01	502.519			

V-t method summary

Thickness method: DeBoer
Slope = 115.383
Intercept = -110.540
Correlation coefficient, r = 0.999190

Micropore volume = 0.000 cc/g
Micropore area = 0.000 m²/g
External surface area = 1439.615 m²/g

Analysis
Operator: quantachrome **Date:**2021/11/09
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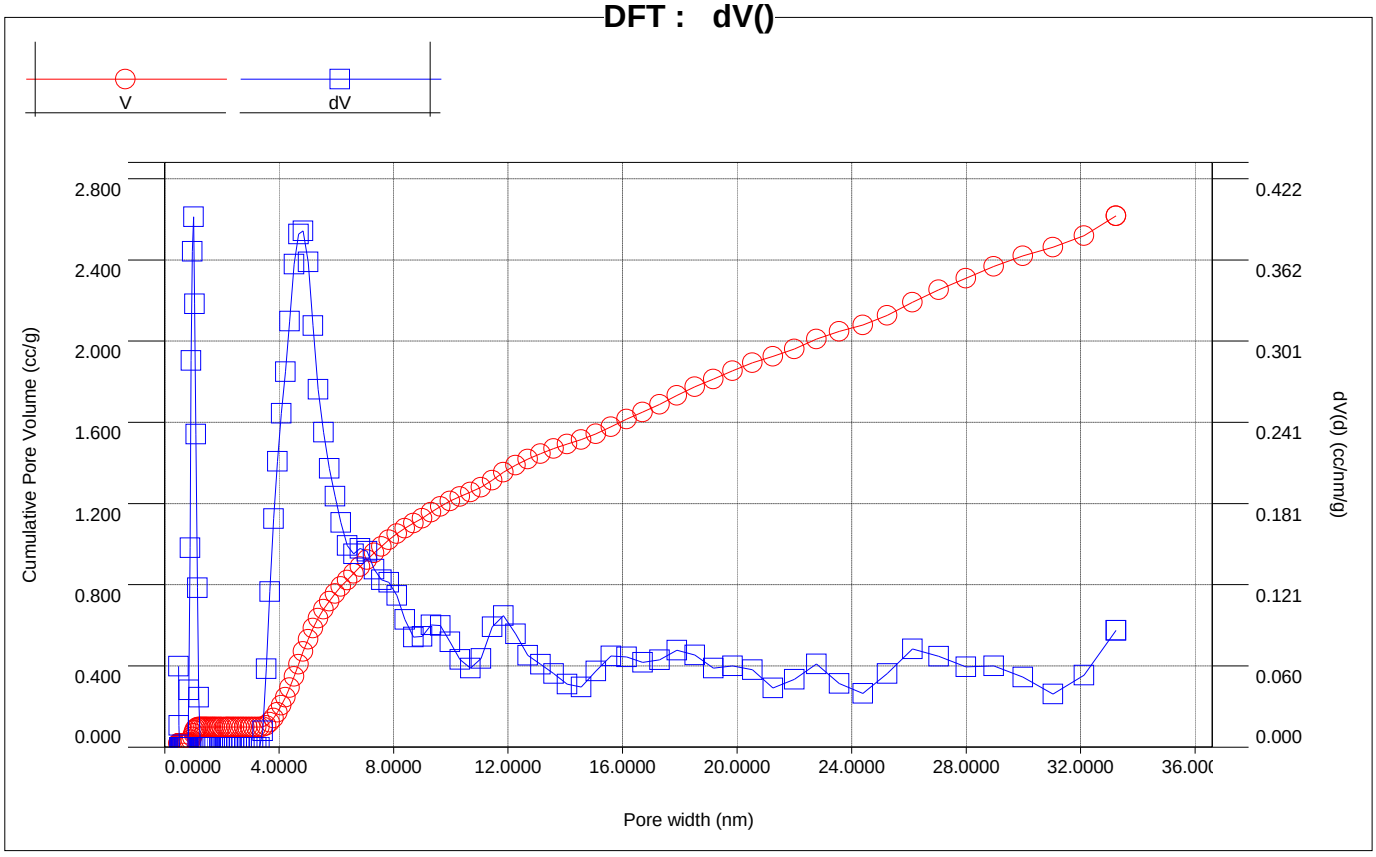
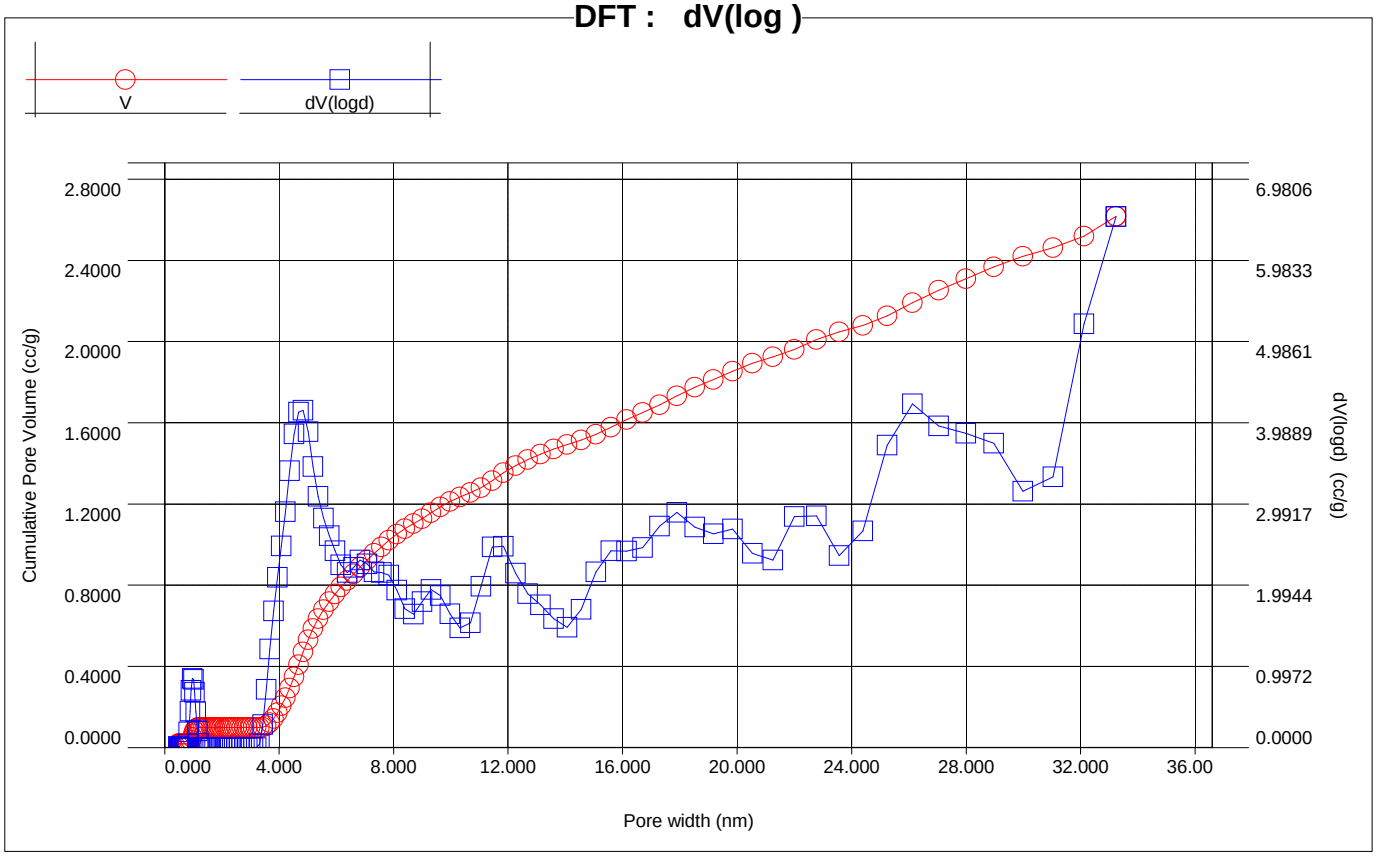
Report
Operator: quantachrome **Date:**2021/11/11
20211108-ljx-1_iq2_phisy_st1_2021_11_09_17_31_23.qps

DFT : dV()



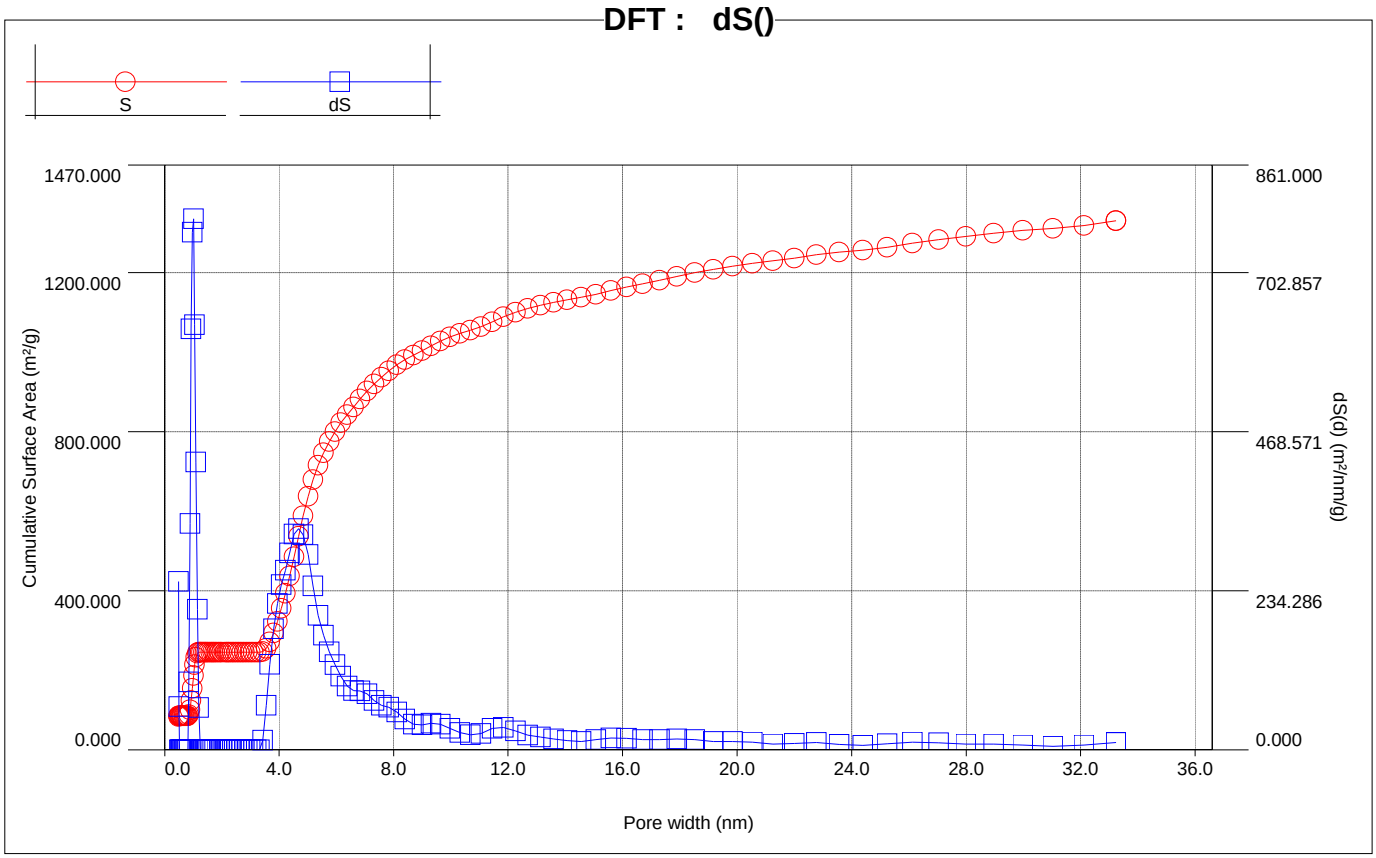
DFT : dV(log)



Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

Report
Operator: quantachrome **Date:**2021/11/11
20211108-ljx-1_iq2_phisy_st1_2021_11_09_17_31_23.qps

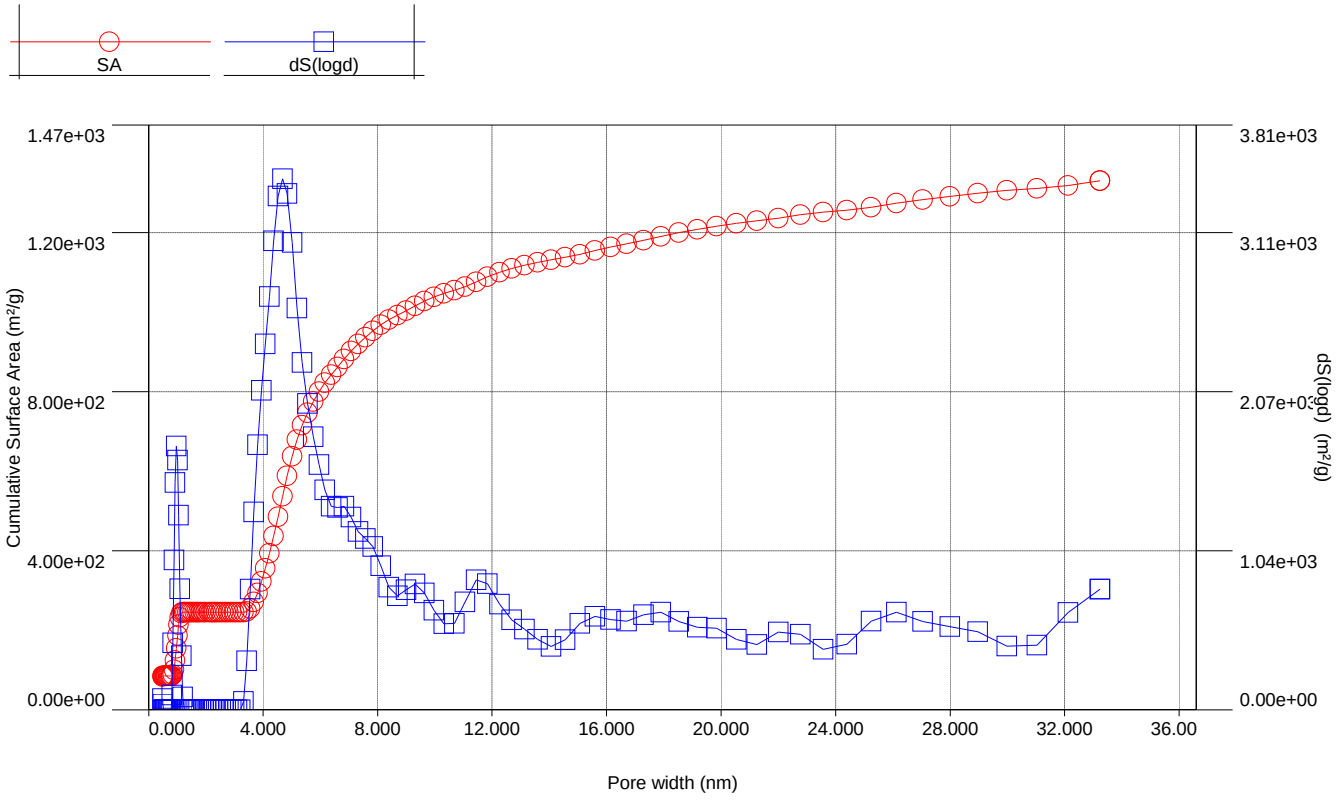
DFT : dS()



Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

Report
Operator: quantachrome **Date:**2021/11/11
20211108-ljx-1_iq2_phisy_st1_2021_11_09_17_31_23.qps

DFT : dS(log)



Pore Size Distribution

Pore width [nm]	Cumulative Pore Volume [cc/g]	Cumulative Surface Area [m²/g]	dV(d) [cc/nm/g]	dS(d) [m²/nm/g]
0.4840	1.7854e-02	8.3545e+01	6.0020e-02	2.4802e+02
0.5040	1.8172e-02	8.4810e+01	1.5939e-02	6.3249e+01
0.5240	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.5450	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.5670	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.5900	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6140	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6400	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6660	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6940	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.7230	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.7530	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.7850	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.8180	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.8520	1.9616e-02	8.8199e+01	4.2465e-02	9.9682e+01
0.8890	2.5093e-02	1.0052e+02	1.4802e-01	3.3300e+02
0.9260	3.5712e-02	1.2345e+02	2.8700e-01	6.1986e+02
0.9660	5.0435e-02	1.5394e+02	3.6808e-01	7.6206e+02
1.0070	6.6580e-02	1.8600e+02	3.9378e-01	7.8209e+02
1.0510	8.1054e-02	2.1355e+02	3.2896e-01	6.2599e+02
1.0960	9.1505e-02	2.3262e+02	2.3226e-01	4.2383e+02
1.1440	9.7185e-02	2.4255e+02	1.1833e-01	2.0686e+02
1.1930	9.8998e-02	2.4559e+02	3.6996e-02	6.2021e+01
1.2450	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.2990	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.3560	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.4160	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.4780	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00

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Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

Report
Operator: quantachrome **Date:**2021/11/11
20211108-ljx-1_iq2_phisy_st1_2021_11_09_17_31_23.qps

Pore Size Distribution continued

Pore width [nm]	Cumulative Pore Volume [cc/g]	Cumulative Surface Area [m²/g]	dV(d) [cc/nm/g]	dS(d) [m²/nm/g]
1.5430	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.6110	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.6820	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.7560	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.8340	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.9150	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.0000	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.1206	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.1948	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.2717	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.3512	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.4335	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.5186	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.6068	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.6980	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.7925	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.8902	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.9914	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.0961	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.2044	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.3166	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.4326	1.0039e-01	2.4721e+02	1.1980e-02	1.3960e+01
3.5528	1.0738e-01	2.5508e+02	5.8188e-02	6.5512e+01
3.6771	1.2173e-01	2.7069e+02	1.1539e-01	1.2552e+02
3.8058	1.4354e-01	2.9361e+02	1.6949e-01	1.7813e+02
3.9390	1.7178e-01	3.2229e+02	2.1201e-01	2.1529e+02
4.0769	2.0595e-01	3.5582e+02	2.4787e-01	2.4320e+02
4.2196	2.4573e-01	3.9353e+02	2.7876e-01	2.6426e+02
4.3673	2.9244e-01	4.3631e+02	3.1627e-01	2.8967e+02
4.5201	3.4727e-01	4.8482e+02	3.5865e-01	3.1738e+02
4.6784	4.0753e-01	5.3635e+02	3.8096e-01	3.2572e+02
4.8421	4.7029e-01	5.8819e+02	3.8327e-01	3.1661e+02
5.0116	5.3131e-01	6.3690e+02	3.6007e-01	2.8739e+02
5.1870	5.8619e-01	6.7922e+02	3.1280e-01	2.4122e+02
5.3690	6.3454e-01	7.1524e+02	2.6568e-01	1.9794e+02
5.5560	6.7827e-01	7.4672e+02	2.3384e-01	1.6835e+02
5.7510	7.1862e-01	7.7479e+02	2.0690e-01	1.4390e+02
5.9520	7.5603e-01	7.9993e+02	1.8612e-01	1.2508e+02
6.1600	7.9073e-01	8.2246e+02	1.6685e-01	1.0834e+02
6.3760	8.2303e-01	8.4272e+02	1.4952e-01	9.3799e+01
6.5990	8.5502e-01	8.6212e+02	1.4349e-01	8.6974e+01
6.8300	8.8911e-01	8.8208e+02	1.4755e-01	8.6416e+01
7.0690	9.2385e-01	9.0174e+02	1.4536e-01	8.2253e+01
7.3170	9.5661e-01	9.1965e+02	1.3209e-01	7.2209e+01
7.5730	9.8840e-01	9.3644e+02	1.2420e-01	6.5604e+01
7.8379	1.0208e+00	9.5296e+02	1.2222e-01	6.2373e+01
8.1122	1.0516e+00	9.6818e+02	1.1253e-01	5.5485e+01
8.3961	1.0786e+00	9.8101e+02	9.4816e-02	4.5171e+01
8.6900	1.1026e+00	9.9206e+02	8.1708e-02	3.7610e+01
8.9941	1.1275e+00	1.0032e+03	8.2051e-02	3.6491e+01
9.3089	1.1561e+00	1.0154e+03	9.0620e-02	3.8939e+01
9.6347	1.1855e+00	1.0276e+03	9.0241e-02	3.7465e+01
9.9720	1.2118e+00	1.0382e+03	7.7997e-02	3.1286e+01
10.3210	1.2345e+00	1.0470e+03	6.5126e-02	2.5240e+01
10.6820	1.2557e+00	1.0549e+03	5.8624e-02	2.1953e+01
11.0560	1.2803e+00	1.0638e+03	6.5821e-02	2.3814e+01
11.4430	1.3148e+00	1.0759e+03	8.9165e-02	3.1168e+01
11.8436	1.3539e+00	1.0891e+03	9.7568e-02	3.2952e+01
12.2581	1.3887e+00	1.1004e+03	8.3967e-02	2.7400e+01
12.6871	1.4179e+00	1.1096e+03	6.8026e-02	2.1447e+01
13.1312	1.4452e+00	1.1180e+03	6.1486e-02	1.8730e+01
13.5908	1.4702e+00	1.1253e+03	5.4535e-02	1.6051e+01
14.0664	1.4925e+00	1.1317e+03	4.6779e-02	1.3302e+01
14.5588	1.5144e+00	1.1377e+03	4.4482e-02	1.2221e+01
15.0683	1.5432e+00	1.1453e+03	5.6511e-02	1.5001e+01
15.5957	1.5788e+00	1.1545e+03	6.7574e-02	1.7331e+01

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Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

Report
Operator: quantachrome **Date:**2021/11/11
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Pore Size Distribution continued

Pore width [nm]	Cumulative Pore Volume [cc/g]	Cumulative Surface Area [m²/g]	dV(d) [cc/nm/g]	dS(d) [m²/nm/g]
16.1416	1.6154e+00	1.1635e+03	6.6958e-02	1.6593e+01
16.7065	1.6509e+00	1.1720e+03	6.2838e-02	1.5045e+01
17.2912	1.6887e+00	1.1808e+03	6.4687e-02	1.4964e+01
17.8964	1.7321e+00	1.1905e+03	7.1810e-02	1.6050e+01
18.5228	1.7750e+00	1.1997e+03	6.8451e-02	1.4782e+01
19.1711	1.8131e+00	1.2077e+03	5.8720e-02	1.2252e+01
19.8421	1.8535e+00	1.2158e+03	6.0199e-02	1.2136e+01
20.5366	1.8933e+00	1.2236e+03	5.7346e-02	1.1169e+01
21.2553	1.9248e+00	1.2295e+03	4.3807e-02	8.2441e+00
21.9993	1.9621e+00	1.2363e+03	5.0189e-02	9.1254e+00
22.7693	2.0096e+00	1.2446e+03	6.1657e-02	1.0832e+01
23.5662	2.0471e+00	1.2510e+03	4.7096e-02	7.9938e+00
24.3910	2.0800e+00	1.2564e+03	3.9842e-02	6.5339e+00
25.2447	2.1266e+00	1.2638e+03	5.4570e-02	8.6466e+00
26.1282	2.1910e+00	1.2736e+03	7.2915e-02	1.1163e+01
27.0427	2.2527e+00	1.2828e+03	6.7438e-02	9.9751e+00
27.9892	2.3091e+00	1.2908e+03	5.9581e-02	8.5149e+00
28.9689	2.3680e+00	1.2990e+03	6.0198e-02	8.3120e+00
29.9828	2.4207e+00	1.3060e+03	5.1956e-02	6.9315e+00
31.0322	2.4620e+00	1.3113e+03	3.9373e-02	5.0752e+00
32.1183	2.5201e+00	1.3185e+03	5.3456e-02	6.6574e+00
33.2424	2.6175e+00	1.3303e+03	8.6665e-02	1.0428e+01

Pore Size Distribution (log)

Pore width [nm]	Cumulative Pore Volume [cc/g]	Cumulative Surface Area [m²/g]	dV(log d) [cc/g]	dS(log d) [m²/g]
0.4840	1.7854e-02	8.3545e+01	1.8127e-02	7.1935e+01
0.5040	1.8172e-02	8.4810e+01	9.2436e-03	3.6681e+01
0.5240	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.5450	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.5670	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.5900	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6140	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6400	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6660	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.6940	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.7230	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.7530	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.7850	1.8172e-02	8.4810e+01	0.0000e+00	0.0000e+00
0.8180	1.8172e-02	8.4810e+01	4.0590e-02	9.5282e+01
0.8520	1.9616e-02	8.8199e+01	1.9145e-01	4.3460e+02
0.8890	2.5093e-02	1.0052e+02	4.4498e-01	9.7469e+02
0.9260	3.5712e-02	1.2345e+02	7.0247e-01	1.4807e+03
0.9660	5.0435e-02	1.5394e+02	8.4759e-01	1.7175e+03
1.0070	6.6580e-02	1.8600e+02	8.3600e-01	1.6275e+03
1.0510	8.1054e-02	2.1355e+02	6.7768e-01	1.2674e+03
1.0960	9.1505e-02	2.3262e+02	4.3807e-01	7.8759e+02
1.1440	9.7185e-02	2.4255e+02	2.0343e-01	3.5212e+02
1.1930	9.8998e-02	2.4559e+02	4.9337e-02	8.2710e+01
1.2450	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.2990	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.3560	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.4160	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.4780	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.5430	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.6110	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.6820	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.7560	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.8340	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
1.9150	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.0000	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00

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Analysis
Operator: quantachrome **Date:**2021/11/09
Sample ID: ljx-1 **Filename:**

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Operator: quantachrome **Date:**2021/11/11
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Pore Size Distribution (log) continued

Pore width [nm]	Cumulative Pore Volume [cc/g]	Cumulative Surface Area [m²/g]	dV(log d) [cc/g]	dS(log d) [m²/g]
2.1206	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.1948	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.2717	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.3512	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.4335	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.5186	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.6068	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.6980	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.7925	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.8902	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
2.9914	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.0961	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.2044	9.8998e-02	2.4559e+02	0.0000e+00	0.0000e+00
3.3166	9.8998e-02	2.4559e+02	4.6542e-02	5.4234e+01
3.4326	1.0039e-01	2.4721e+02	2.8050e-01	3.1764e+02
3.5528	1.0738e-01	2.5508e+02	7.1414e-01	7.8575e+02
3.6771	1.2173e-01	2.7069e+02	1.2102e+00	1.2896e+03
3.8058	1.4354e-01	2.9361e+02	1.6751e+00	1.7270e+03
3.9390	1.7178e-01	3.2229e+02	2.0888e+00	2.0818e+03
4.0769	2.0595e-01	3.5582e+02	2.4749e+00	2.3840e+03
4.2196	2.4573e-01	3.9353e+02	2.8944e+00	2.6936e+03
4.3673	2.9244e-01	4.3631e+02	3.3979e+00	3.0553e+03
4.5201	3.4727e-01	4.8482e+02	3.8517e+00	3.3481e+03
4.6784	4.0753e-01	5.3635e+02	4.1173e+00	3.4595e+03
4.8421	4.7029e-01	5.8819e+02	4.1425e+00	3.3650e+03
5.0116	5.3131e-01	6.3690e+02	3.8784e+00	3.0460e+03
5.1870	5.8619e-01	6.7922e+02	3.4502e+00	2.6184e+03
5.3690	6.3454e-01	7.1524e+02	3.0852e+00	2.2618e+03
5.5560	6.7827e-01	7.4672e+02	2.8165e+00	1.9947e+03
5.7510	7.1862e-01	7.7479e+02	2.6005e+00	1.7793e+03
5.9520	7.5603e-01	7.9993e+02	2.4169e+00	1.5979e+03
6.1600	7.9073e-01	8.2246e+02	2.2419e+00	1.4320e+03
6.3760	8.2303e-01	8.4272e+02	2.1504e+00	1.3264e+03
6.5990	8.5502e-01	8.6212e+02	2.2122e+00	1.3175e+03
6.8300	8.8911e-01	8.8208e+02	2.3034e+00	1.3260e+03
7.0690	9.2385e-01	9.0174e+02	2.2566e+00	1.2559e+03
7.3170	9.5661e-01	9.1965e+02	2.1583e+00	1.1602e+03
7.5730	9.8840e-01	9.3644e+02	2.1486e+00	1.1155e+03
7.8379	1.0208e+00	9.5296e+02	2.1172e+00	1.0626e+03
8.1122	1.0516e+00	9.6818e+02	1.9340e+00	9.3860e+02
8.3961	1.0786e+00	9.8101e+02	1.7045e+00	7.9909e+02
8.6900	1.1026e+00	9.9206e+02	1.6387e+00	7.4131e+02
8.9941	1.1275e+00	1.0032e+03	1.7899e+00	7.8166e+02
9.3089	1.1561e+00	1.0154e+03	1.9386e+00	8.1873e+02
9.6347	1.1855e+00	1.0276e+03	1.8642e+00	7.6158e+02
9.9720	1.2118e+00	1.0382e+03	1.6409e+00	6.4790e+02
10.3210	1.2345e+00	1.0470e+03	1.4694e+00	5.6021e+02
10.6820	1.2557e+00	1.0549e+03	1.5323e+00	5.6336e+02
11.0560	1.2803e+00	1.0638e+03	1.9782e+00	7.0158e+02
11.4430	1.3148e+00	1.0759e+03	2.4625e+00	8.4531e+02
11.8436	1.3539e+00	1.0891e+03	2.4726e+00	8.2179e+02
12.2581	1.3887e+00	1.1004e+03	2.1416e+00	6.8805e+02
12.6871	1.4179e+00	1.1096e+03	1.8904e+00	5.8628e+02
13.1312	1.4452e+00	1.1180e+03	1.7525e+00	5.2521e+02
13.5908	1.4702e+00	1.1253e+03	1.5835e+00	4.5864e+02
14.0664	1.4925e+00	1.1317e+03	1.4776e+00	4.1312e+02
14.5588	1.5144e+00	1.1377e+03	1.6966e+00	4.5718e+02
15.0683	1.5432e+00	1.1453e+03	2.1564e+00	5.6172e+02
15.5957	1.5788e+00	1.1545e+03	2.4158e+00	6.0900e+02
16.1416	1.6154e+00	1.1635e+03	2.4112e+00	5.8757e+02
16.7065	1.6509e+00	1.1720e+03	2.4539e+00	5.7729e+02
17.2912	1.6887e+00	1.1808e+03	2.7202e+00	6.1790e+02
17.8964	1.7321e+00	1.1905e+03	2.8893e+00	6.3494e+02
18.5228	1.7750e+00	1.1997e+03	2.7089e+00	5.7568e+02
19.1711	1.8131e+00	1.2077e+03	2.6258e+00	5.3833e+02
19.8421	1.8535e+00	1.2158e+03	2.6846e+00	5.3211e+02

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Analysis
Operator: quantachrome **Date:**2021/11/09
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Pore Size Distribution (log) continued

Pore width [nm]	Cumulative Pore Volume [cc/g]	Cumulative Surface Area [m²/g]	dV(log d) [cc/g]	dS(log d) [m²/g]
20.5366	1.8933e+00	1.2236e+03	2.3866e+00	4.5791e+02
21.2553	1.9248e+00	1.2295e+03	2.3034e+00	4.2551e+02
21.9993	1.9621e+00	1.2363e+03	2.8383e+00	5.0631e+02
22.7693	2.0096e+00	1.2446e+03	2.8449e+00	4.9231e+02
23.5662	2.0471e+00	1.2510e+03	2.3559e+00	3.9355e+02
24.3910	2.0800e+00	1.2564e+03	2.6589e+00	4.2739e+02
25.2447	2.1266e+00	1.2638e+03	3.7151e+00	5.7711e+02
26.1282	2.1910e+00	1.2736e+03	4.2200e+00	6.3536e+02
27.0427	2.2527e+00	1.2828e+03	3.9512e+00	5.7500e+02
27.9892	2.3091e+00	1.2908e+03	3.8609e+00	5.4222e+02
28.9689	2.3680e+00	1.2990e+03	3.7366e+00	5.0771e+02
29.9828	2.4207e+00	1.3060e+03	3.1458e+00	4.1344e+02
31.0322	2.4620e+00	1.3113e+03	3.3258e+00	4.2023e+02
32.1183	2.5201e+00	1.3185e+03	5.2035e+00	6.3430e+02
33.2424	2.6175e+00	1.3303e+03	6.5208e+00	7.8463e+02

DFT method summary

Pore volume =	2.618 cc/g
Surface area =	1330.270 m²/g
Lower confidence limit =	0.484 nm
Fitting error =	0.426 %
Pore width (Mode) =	1.007 nm
Moving point average :	off