Certificate of Analysis

Part Name: QCG-X2 RAAGP0005A Producing Date: 2021.10.13

Analysis Date: 2021.10.13

Item		Spec	Analysis Result	Analyzer	Evaluation Result
Particle Size (dmin) , μm		≥2.0	5.2	Checker 13	OK
Particle Size (d10) , μm		8.3±2.0	9.1	Checker 13	OK
Particle Size (d50) , μm		14.3±2.0	14.7	Checker 13	OK
Particle Size (d90) , μm		24.0±4.0	23.3	Checker 13	OK
Particle Size (dmax) , μm		≤50.0	35.3	Checker 13	OK
Tap Density , g/cm^3		1.02±0.10	1.04	Checker 10	OK
Surface Area , m^2/g		0.9±0.4	0.91	Checker 10	OK
Ash Content , %		≤0.10	0.01	Checker 12	OK
Water Content , wt%		≤0.10	0.01	Checker 12	OK
Bulk Density , g/cm^3		0.65±0.10	0.63	Checker 8	OK
Residue on sieve 325 mesh, ppm		≤100	6	Checker 19	OK
Fe , ppm		≤50	3.94	Checker 4	OK
S , ppm		≤50	7.79	Checker 4	OK
Ni , ppm		≤25	0.89	Checker 4	OK
Cu , ppm		≤25	N.D.	Checker 4	OK
Al , ppm		≤20	N.D.	Checker 4	OK
Zn , ppm		≤10	N.D.	Checker 4	OK
Fe+Cr+Ni+Zn , ppm		≤0.3	0.045	Checker 4	OK
For Reference	Discharge Capacity (mAh/g)	≥348.5	349.9	Checker 21	OK
	First Discharge Efficiency (%)	≥91.0	92.2	Checker 21	OK