

Prepared by: Dr Vitas Anderson (Two Fields Consulting)

Date: 16 June 2022

FCC ID: 2AFYJ-OASLV204 (Configuration 4, Figure/Page 51a, Class A device)

Frequency span: 1,000 MHz to 6,000 MHz

RBW: 1.0 MHz, distance: 3 m Peak-to-average correction: N/A No. of sample points: 5,000

Cumulative S level:  $7.018E-08 \text{ W/m}^2$  Device radiated power: 0.0048 mW

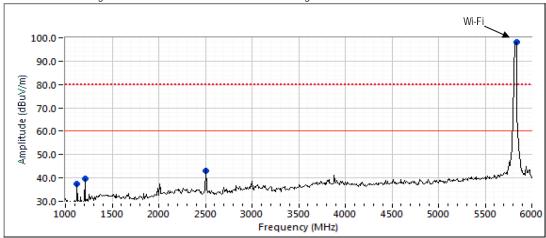
#### EMC test spectral plot

Run #3: Maximized Readings, 1000 - 40000 MHz

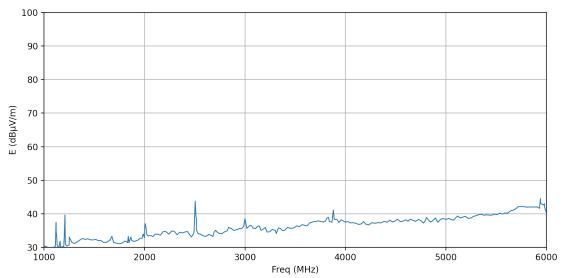
Test Parameters for Preliminary Scan(s)			
Frequency Range	Prescan Distance	Limit Distance	Extrapolation Factor
(MHz)	(meters)	(meters)	(dB, applied to data)
1000 - 40000	3	3	0.0

### **EUT and Test Configuration Details**

LTE modem (R202) is transmitting at 836.5 MHz (Ch# 20525) with max power, 802.11n20 Ch#165 transmitting with max RF power. Camera is active and writing to the SD card and USB stick. GPS is receiving satellites.



### Plot of extracted data from EMC test spectral plot





### Table of extracted data from EMC test spectral plot

Freq (MHz)	E (dBµV/m)	E (V/m rms)	S (W/m²)
1006	30.35	3.035E+01	2.877E-12
1048	29.92	2.992E+01	2.603E-12
1098	29.98	2.998E+01	2.638E-12
1113	30.40	3.040E+01	2.908E-12
1119	37.45	3.745E+01	1.475E-11
1120	34.96	3.496E+01	8.313E-12
1123	33.92	3.392E+01	6.538E-12
1126	32.87	3.287E+01	5.141E-12
1128	31.83	3.183E+01	4.043E-12
1131	30.40	3.040E+01	2.912E-12
1148	29.95	2.995E+01	2.623E-12
1159	31.83	3.183E+01	4.040E-12
1164	30.07	3.007E+01	2.696E-12
1196	30.22	3.022E+01	2.792E-12
1203	34.54	3.454E+01	7.543E-12
1208	39.62	3.962E+01	2.429E-11
1212	31.05	3.105E+01	3.377E-12
1225	30.39	3.039E+01	2.900E-12
1250	30.70	3.070E+01	3.117E-12
1250	33.02	3.302E+01	5.319E-12
1276	31.53	3.153E+01	3.770E-12
1302	31.12	3.112E+01	3.433E-12
1329	31.62	3.162E+01	3.854E-12
1354	32.12	3.212E+01	4.322E-12
1379	32.60	3.260E+01	4.822E-12
1409	32.39	3.239E+01	4.596E-12
1437	32.53	3.253E+01	4.746E-12
1463	32.21	3.221E+01	4.410E-12
1489	32.21	3.221E+01	4.410E-12
1515	32.35	3.235E+01	4.559E-12
1541	31.96	3.196E+01	4.167E-12
1565	32.04	3.204E+01	4.242E-12
1593	31.43	3.143E+01	3.683E-12
1624	31.51	3.151E+01	3.757E-12
1654	32.12	3.212E+01	4.322E-12
1675	33.28	3.328E+01	5.651E-12
1692	31.41	3.141E+01	3.671E-12
1733	31.18	3.118E+01	3.480E-12
1759	31.09	3.109E+01	3.411E-12
1780	31.35	3.135E+01	3.622E-12
1806	31.89	3.189E+01	4.098E-12
1831	31.38	3.138E+01	3.648E-12
1838	33.27	3.327E+01	5.636E-12
1845	31.40	3.140E+01	3.660E-12
1864	33.05	3.305E+01	5.355E-12
1872	32.00	3.200E+01	4.209E-12



1899	31.76	3.176E+01	3.979E-12
1928	32.06	3.206E+01	4.265E-12
1955	32.61	3.261E+01	4.842E-12
1974	32.67	3.267E+01	4.907E-12
1986	33.97	3.397E+01	6.613E-12
1998	32.87	3.287E+01	5.141E-12
2001	35.31	3.531E+01	9.006E-12
2006	37.05	3.705E+01	1.344E-11
2016	35.42	3.542E+01	9.234E-12
2019	34.00	3.400E+01	6.670E-12
2036	33.38	3.338E+01	5.774E-12
2061	33.52	3.352E+01	5.962E-12
2085	33.20	3.320E+01	5.542E-12
2107	33.93	3.393E+01	6.564E-12
2132	33.92	3.392E+01	6.538E-12
2157	33.60	3.360E+01	6.083E-12
2185	34.67	3.467E+01	7.776E-12
2211	34.73	3.473E+01	7.881E-12
2241	33.93	3.393E+01	6.559E-12
2273	34.89	3.489E+01	8.181E-12
2298	34.70	3.470E+01	7.828E-12
2324	33.74	3.374E+01	6.281E-12
2349	34.48	3.448E+01	7.446E-12
2376	34.25	3.425E+01	7.059E-12
2402	34.56	3.456E+01	7.571E-12
2426	34.72	3.472E+01	7.860E-12
2448	33.83	3.383E+01	6.408E-12
2467	33.09	3.309E+01	5.405E-12
2489	34.13	3.413E+01	6.873E-12
2493	34.96	3.496E+01	8.313E-12
2498	38.33	3.833E+01	1.805E-11
2504	43.77	4.377E+01	6.322E-11
2511	39.45	3.945E+01	2.336E-11
2517	38.27	3.827E+01	1.779E-11
2517	35.13	3.513E+01	8.653E-12
2532	34.09	3.409E+01	6.805E-12
2556	33.92	3.392E+01	6.538E-12
2585	33.41	3.341E+01	5.817E-12
2611	33.27	3.327E+01	5.626E-12
2638	33.81	3.381E+01	6.382E-12
2661	33.61	3.361E+01	6.095E-12
2680	33.22	3.322E+01	5.570E-12
2691	34.44	3.444E+01	7.372E-12
2706	35.07	3.507E+01	8.524E-12
2722	34.57	3.457E+01	7.597E-12
2745	34.12	3.412E+01	6.850E-12
2772	34.11	3.411E+01	6.827E-12
2799	34.65	3.465E+01	7.735E-12
2823	34.92	3.492E+01	8.242E-12
	1	1	



2837	35.93	3.593E+01	1.040E-11
2863	35.60	3.560E+01	9.628E-12
2889	35.02	3.502E+01	8.425E-12
2915	35.24	3.524E+01	8.857E-12
2941	35.54	3.554E+01	9.500E-12
2969	35.54	3.554E+01	9.509E-12
2987	36.24	3.624E+01	1.115E-11
2999	38.54	3.854E+01	1.895E-11
3018	35.63	3.563E+01	9.701E-12
3045	36.45	3.645E+01	1.172E-11
3065	36.44	3.644E+01	1.168E-11
3080	35.70	3.570E+01	9.855E-12
3104	35.55	3.555E+01	9.525E-12
3128	36.34	3.634E+01	1.141E-11
3143	36.35	3.635E+01	1.145E-11
3159	35.03	3.503E+01	8.447E-12
3178	35.34	3.534E+01	9.066E-12
3203	35.92	3.592E+01	1.036E-11
3218	34.58	3.458E+01	7.612E-12
3243	34.60	3.460E+01	7.643E-12
3272	35.32	3.532E+01	9.036E-12
3302	35.02	3.502E+01	8.425E-12
3311	34.09	3.409E+01	6.805E-12
3332	35.79	3.579E+01	1.005E-11
3356	35.56	3.556E+01	9.532E-12
3372	35.00	3.500E+01	8.380E-12
3395	35.07	3.507E+01	8.515E-12
3424	35.92	3.592E+01	1.036E-11
3454	35.63	3.563E+01	9.692E-12
3485	35.79	3.579E+01	1.005E-11
3515	36.38	3.638E+01	1.153E-11
3541	36.13	3.613E+01	1.089E-11
3568	36.75	3.675E+01	1.256E-11
3593	36.54	3.654E+01	1.196E-11
3616	36.35	3.635E+01	1.145E-11
3644	37.26	3.726E+01	1.410E-11
3676	37.60	3.760E+01	1.526E-11
3702	37.64	3.764E+01	1.541E-11
3728	37.89	3.789E+01	1.631E-11
3755	37.69	3.769E+01	1.559E-11
3780	37.54	3.754E+01	1.506E-11
3798	37.74	3.774E+01	1.578E-11
3817	38.69	3.869E+01	1.961E-11
3830	38.96	3.896E+01	2.088E-11
3841	37.66	3.766E+01	1.546E-11
3866	37.48	3.748E+01	1.486E-11
3879	41.08	4.108E+01	3.400E-11
3885	39.48	3.948E+01	2.354E-11
3888	38.31	3.831E+01	1.799E-11



3915 38.33 3.8338+01 1.806E-11 3935 37.40 3.740E+01 1.456E-11 3958 38.18 3.8188+01 1.744E-11 3978 37.83 3.783E+01 1.610E-11 3998 37.52 3.752E+01 1.498E-11 4024 37.67 3.767E+01 1.551E-11 4024 37.26 3.726E+01 1.410E-11 4074 37.33 3.733E+01 1.433E-11 4103 37.19 3.719E+01 1.338E-11 4128 36.84 3.684E+01 1.231E-11 4128 36.84 3.684E+01 1.231E-11 4179 37.64 3.764E+01 1.540E-11 4204 36.87 3.687E+01 1.237E-11 4223 36.69 3.669E+01 1.237E-11 4232 36.69 3.669E+01 1.237E-11 4243 37.34 3.734E+01 1.437E-11 4354 37.38 3.738E+01 1.437E-11 4354 37.28 3.728E+01 1.437E-11 4354 37.28 3.74E+01 1.578E-11 4411 38.09 3.809E+01 1.709E-11 4441 38.09 3.809E+01 1.759E-11 4441 38.09 3.809E+01 1.759E-11 4545 37.36 3.753B+01 1.536E-11 4549 37.37 37.83 3.753B+01 1.536E-11 4519 38.37 3.837E+01 1.578E-11 4529 37.74 3.774E+01 1.579E-11 4549 37.74 3.774E+01 1.579E-11 4601 38.20 3.803E+01 1.752E-11 4604 38.40 3.840E+01 1.598E-11 4791 37.74 3.774E+01 1.578E-11 4791 37.74 3.774E+01 1.578E-11 4806 38.87 3.837E+01 1.496E-11 4806 38.87 3.837E+01 1.496E-11 4806 38.87 3.837E+01 1.496E-11 4806 38.87 3.838E+01 1.752E-11 4807 37.44 3.774E+01 1.752E-11 4806 38.87 3.838E+01 1.752E-11 4807 37.45 3.838E+01 1.752E-11 4809 38.38 3.838E+01 1.752E-11 4800 38.38 3.838E+01 1.752E-11				
3958   38.18   3.818E+01   1.744E-11   3978   37.83   3.783E+01   1.610E-11   3998   37.52   3.752E+01   1.498E-11   4024   37.567   3.767E+01   1.551E-11   4048   37.26   3.726E+01   1.410E-11   4074   37.33   3.733E+01   1.433E-11   4103   37.19   3.719E+01   1.33E-11   4128   36.84   3.684E+01   1.281E-11   4179   37.64   3.694E+01   1.540E-11   4204   36.87   3.687E+01   1.291E-11   4224   36.87   3.687E+01   1.291E-11   4223   36.69   3.669E+01   1.237E-11   4223   37.34   3.734E+01   1.437E-11   437E-11   43324   37.34   3.734E+01   1.437E-11   4354   37.28   3.728E+01   1.437E-11   4354   37.28   3.728E+01   1.476E-11   4368   37.74   3.774E+01   1.578E-11   4411   38.09   3.809E+01   1.709E-11   4468   37.53   3.753E+01   1.504E-11   4493   37.80   3.763E+01   1.504E-11   4493   37.80   3.763E+01   1.504E-11   4468   37.53   3.753E+01   1.504E-11   4468   37.53   3.753E+01   1.504E-11   4554   37.48   37.74   37.74E+01   1.578E-11   4545   37.63   3.763E+01   1.599E-11   4564   37.74   37.74E+01   1.578E-11   4574   37.83   3.783E+01   1.504E-11   4574   37.83   3.783E+01   1.536E-11   4601   38.20   3.820E+01   1.752E-11   4604   37.74   37.74E+01   1.578E-11   472E   38.83   37.83E+01   1.610E-11   476E-11   477E   38.33   37.83E+01   1.578E-11   472E   38.84   37.74   3.774E+01   1.578E-11   472E   38.84   3.840   3.840E+01   1.578E-11   475E-11   476E-11   38.03   3.803E+01   1.640E-11   476E-11   476E-11   476E-11   477E   38.28   3.82E+01   1.758E-11   477E   38.28   3.82E+01   1.758E-11   477E-11   477E-11   37.74   3.774E+01   1.578E-11   476E-11   476E-11   477E-11   37.74   3.774E+01   1.578E-11   477E-11   477E-	3915	38.33	3.833E+01	1.806E-11
3978         37.83         3.783E+01         1.610E-11           3998         37.52         3.752E+01         1.498E-11           4024         37.67         3.767E+01         1.551E-11           4048         37.26         3.726E+01         1.410E-11           4074         37.33         3.733E+01         1.433E-11           4103         37.19         3.719E+01         1.388E-11           4128         36.84         3.684E+01         1.281E-11           4179         37.64         3.764E+01         1.540E-11           4179         37.64         3.764E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4232         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4263         37.34         3.734E+01         1.437E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.438E-11           4384         37.74         3.774E+01         1.578E-11           4441         38.09         3.809E+01         1.709E-11           4468	3935	37.40	3.740E+01	1.456E-11
3998   37.52   3.752E+01   1.498E-11   4024   37.67   3.767E+01   1.551E-11   4048   37.26   3.726E+01   1.410E-11   4074   37.33   3.733E+01   1.433E-11   4103   37.19   3.719E+01   1.388E-11   4128   36.84   3.684E+01   1.281E-11   4155   36.94   3.694E+01   1.312E-11   4179   37.64   3.764E+01   1.540E-11   4204   36.87   3.687E+01   1.237E-11   4232   36.69   3.669E+01   1.237E-11   4263   37.34   3.734E+01   1.437E-11   4293   37.16   3.716E+01   1.380E-11   437E-11   4354   37.28   3.728E+01   1.418E-11   4354   37.28   3.728E+01   1.418E-11   4415   37.45   37.45E+01   1.578E-11   4441   38.09   3.809E+01   1.709E-11   4468   37.53   3.753E+01   1.504E-11   4468   37.53   3.753E+01   1.504E-11   4574   37.80   3.809E+01   1.709E-11   4545   37.63   3.763E+01   1.504E-11   4574   37.83   3.783E+01   1.504E-11   4574   37.83   3.783E+01   1.504E-11   4601   38.20   3.809E+01   1.752E-11   4604   38.40   3.809E+01   1.752E-11   4644   38.40   3.809E+01   1.752E-11   4644   38.40   3.809E+01   1.752E-11   4601   38.20   3.820E+01   1.578E-11   4677   37.83   3.783E+01   1.610E-11   4697   37.74   3.774E+01   1.578E-11   4644   38.40   3.809E+01   1.752E-11   4697   37.74   3.774E+01   1.578E-11   4697   37.74   3.774E+01   1.578E-11   4697   37.74   3.774E+01   1.578E-11   4699E-11   4752   37.93   3.793E+01   1.649E-11   4752   37.93   3.793E+01   1.649E-11   4752   37.93   3.793E+01   1.598E-11   4896   38.87   3.874E+01   1.79E-11   4896   38.11   3.812E+01   1.79E-11   4896   38.11   3.812E+01   1.79E-11   4896   38.11   3.812E+01   1.79E-11   4896   38.37   3.838E+01   1.79E-11   4895   38.74   3.774E+01   1.578E-11   4896   38.38   3.838E+01   1.79E-11   4895   38.38   3.838E+01   1.79E-11   49974   38.58   3.828E+01   1.79E-11   49974   38.58   3.828E+01   1.79E-11   49974   38.58   3.828E+01   1.79E-11   49974	3958	38.18	3.818E+01	1.744E-11
4024         37.67         3.767E+01         1.551E-11           4048         37.26         3.726E+01         1.410E-11           4074         37.33         3.733E+01         1.433E-11           4103         37.19         3.719E+01         1.388E-11           4128         36.84         3.694E+01         1.281E-11           4155         36.94         3.694E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4232         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4293         37.16         3.716E+01         1.380E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.418E-11           4384         37.74         3.774E+01         1.578E-11           4441         38.09         3.809E+01         1.709E-11           4468         37.53         3.753E+01         1.504E-11           4493         37.80         3.780E+01         1.599E-11           4519         38.37         3.63E+01         1.536E-11           4574	3978	37.83	3.783E+01	1.610E-11
4048         37.26         3.726E+01         1.410E-11           4074         37.33         3.733E+01         1.433E-11           4103         37.19         3.719E+01         1.388E-11           4128         36.84         3.684E+01         1.281E-11           4155         36.94         3.694E+01         1.312E-11           4179         37.64         3.764E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4232         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4293         37.16         3.716E+01         1.380E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.418E-11           4384         37.74         3.774E+01         1.578E-11           4441         38.09         3.809E+01         1.709E-11           4468         37.53         3.753E+01         1.504E-11           4459         37.80         3.780E+01         1.504E-11           4545         37.63         3.763E+01         1.536E-11           4574	3998	37.52	3.752E+01	1.498E-11
4074         37.33         3.733E+01         1.433E-11           4103         37.19         3.719E+01         1.388E-11           4128         36.84         3.684E+01         1.281E-11           4155         36.94         3.694E+01         1.312E-11           4179         37.64         3.764E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4232         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4293         37.16         3.716E+01         1.880E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.418E-11           4384         37.74         3.774E+01         1.578E-11           4441         38.09         3.809E+01         1.709E-11           4468         37.53         3.753E+01         1.504E-11           4493         37.80         3.763E+01         1.504E-11           4545         37.63         3.763E+01         1.536E-11           4574         37.83         3.783E+01         1.510E-11           4561	4024	37.67	3.767E+01	1.551E-11
4103         37.19         3.719E+01         1.388E-11           4128         36.84         3.684E+01         1.281E-11           4155         36.94         3.694E+01         1.312E-11           4179         37.64         3.687E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4203         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4293         37.16         3.716E+01         1.380E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.418E-11           4384         37.74         3.774E+01         1.578E-11           4415         37.45         3.745E+01         1.476E-11           4441         38.09         3.809E+01         1.709E-11           4468         37.53         3.753E+01         1.504E-11           4493         37.80         3.780E+01         1.599E-11           4519         38.37         3.63E-01         1.536E-11           4545         37.63         3.763E+01         1.536E-11           4546	4048	37.26	3.726E+01	1.410E-11
4128         36.84         3.694E+01         1.281E-11           4155         36.94         3.694E+01         1.312E-11           4179         37.64         3.764E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4232         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4293         37.16         3.716E+01         1.380E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.418E-11           4384         37.74         3.774E+01         1.578E-11           4415         37.45         3.745E+01         1.476E-11           4441         38.09         3.809E+01         1.709E-11           4448         37.53         3.753E+01         1.504E-11           44493         37.80         3.780E+01         1.599E-11           4559         38.37         3.837E+01         1.536E-11           4574         37.83         3.738E+01         1.610E-11           4560         38.20         3.820E+01         1.752E-11           4624	4074	37.33	3.733E+01	1.433E-11
4155         36.94         3.694E+01         1.312E-11           4179         37.64         3.764E+01         1.540E-11           4204         36.87         3.687E+01         1.291E-11           4232         36.69         3.669E+01         1.237E-11           4263         37.34         3.734E+01         1.437E-11           4293         37.16         3.716E+01         1.380E-11           4324         37.34         3.734E+01         1.437E-11           4354         37.28         3.728E+01         1.418E-11           4384         37.74         3.774E+01         1.578E-11           4415         37.45         3.745E+01         1.476E-11           4441         38.09         3.809E+01         1.709E-11           4468         37.53         3.753E+01         1.504E-11           4493         37.80         3.780E+01         1.599E-11           4545         37.63         3.763E+01         1.536E-11           4574         37.83         3.783E+01         1.610E-11           4545         37.63         3.734E+01         1.576E-11           4574         37.74         3.774E+01         1.576E-11           4601	4103	37.19	3.719E+01	1.388E-11
4179       37.64       3.764E+01       1.540E-11         4204       36.87       3.687E+01       1.291E-11         4232       36.69       3.669E+01       1.237E-11         4263       37.34       3.734E+01       1.437E-11         4293       37.16       3.716E+01       1.380E-11         4324       37.34       3.734E+01       1.437E-11         4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.536E-11         4574       37.83       3.774E+01       1.576E-11         4601       38.20       3.802E+01       1.575E-11         4644       38.40       3.840E+01       1.578E-11         4677       37.74	4128	36.84	3.684E+01	1.281E-11
4204       36.87       3.687E+01       1.291E-11         4232       36.69       3.669E+01       1.237E-11         4263       37.34       3.734E+01       1.437E-11         4293       37.16       3.716E+01       1.380E-11         4324       37.34       3.734E+01       1.437E-11         4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         44415       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.536E-11         4574       37.83       3.774E+01       1.578E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4752       37.93	4155	36.94	3.694E+01	1.312E-11
4232       36.69       3.669E+01       1.237E-11         4263       37.34       3.734E+01       1.437E-11         4293       37.16       3.716E+01       1.380E-11         4324       37.34       3.734E+01       1.437E-11         4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.28E+01       1.785E-11         4791       37.74	4179	37.64	3.764E+01	1.540E-11
4263       37.34       3.734E+01       1.437E-11         4293       37.16       3.716E+01       1.380E-11         4324       37.34       3.734E+01       1.437E-11         4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         44415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.536E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4671       38.03       3.803E+01       1.686E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87	4204	36.87	3.687E+01	1.291E-11
4293       37.16       3.716E+01       1.380E-11         4324       37.34       3.734E+01       1.437E-11         4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.52E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.576E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4826       38.12	4232	36.69	3.669E+01	1.237E-11
4324       37.34       3.734E+01       1.437E-11         4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.686E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4826       38.12	4263	37.34	3.734E+01	1.437E-11
4354       37.28       3.728E+01       1.418E-11         4384       37.74       3.774E+01       1.578E-11         4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4671       38.03       3.803E+01       1.686E-11         4672       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4776       37.22       3.793E+01       1.649E-11         4791       37.74       3.774E+01       1.578E-11         4826       38.12       3.812E+01       1.721E-11         4876       38.12       3.874E+01       1.721E-11         4895       38.74	4293	37.16	3.716E+01	1.380E-11
4384       37.74       3.774E+01       1.578E-11         4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51	4324	37.34	3.734E+01	1.437E-11
4415       37.45       3.745E+01       1.476E-11         4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4671       38.03       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11	4354	37.28	3.728E+01	1.418E-11
4441       38.09       3.809E+01       1.709E-11         4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.814E+01       1.718E-11         4919       37.45	4384	37.74	3.774E+01	1.578E-11
4468       37.53       3.753E+01       1.504E-11         4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4919       37.45       3.745E+01       1.986E-11         4974       38.58	4415	37.45	3.745E+01	1.476E-11
4493       37.80       3.780E+01       1.599E-11         4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.686E-11         4671       38.03       3.803E+01       1.578E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.812E+01       1.718E-11         4895       38.37       3.838E+01       1.986E-11         4974       38.58       3.828E+01       1.912E-11         5002       38.28	4441	38.09	3.809E+01	1.709E-11
4519       38.37       3.837E+01       1.822E-11         4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4601       38.20       3.820E+01       1.578E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.686E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.814E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4974       38.58	4468	37.53	3.753E+01	1.504E-11
4545       37.63       3.763E+01       1.536E-11         4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.874E+01       1.986E-11         4950       38.38       3.838E+01       1.827E-11         4950       38.38       3.838E+01       1.775E-11         5002       38.28       3.828E+01       1.795E-11         5028       38.63	4493	37.80	3.780E+01	1.599E-11
4574       37.83       3.783E+01       1.610E-11         4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4970       38.38       3.838E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.822E+01       1.761E-11         5079       38.13	4519	38.37	3.837E+01	1.822E-11
4601       38.20       3.820E+01       1.752E-11         4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4970       38.38       3.838E+01       1.827E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87	4545	37.63	3.763E+01	1.536E-11
4624       37.74       3.774E+01       1.578E-11         4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4974       38.58       3.838E+01       1.785E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87	4574	37.83	3.783E+01	1.610E-11
4644       38.40       3.840E+01       1.837E-11         4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.28       3.828E+01       1.761E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.887E+01       2.047E-11	4601	38.20	3.820E+01	1.752E-11
4671       38.03       3.803E+01       1.686E-11         4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.828E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4624	37.74	3.774E+01	1.578E-11
4697       37.74       3.774E+01       1.578E-11         4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.828E+01       1.785E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4644	38.40	3.840E+01	1.837E-11
4728       38.28       3.828E+01       1.785E-11         4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4671	38.03	3.803E+01	1.686E-11
4752       37.93       3.793E+01       1.649E-11         4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4697	37.74	3.774E+01	1.578E-11
4776       37.22       3.722E+01       1.399E-11         4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.785E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4728	38.28	3.828E+01	1.785E-11
4791       37.74       3.774E+01       1.578E-11         4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4752	37.93	3.793E+01	1.649E-11
4806       38.87       3.887E+01       2.047E-11         4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.785E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4776	37.22	3.722E+01	1.399E-11
4826       38.12       3.812E+01       1.721E-11         4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4791	37.74	3.774E+01	1.578E-11
4850       37.51       3.751E+01       1.496E-11         4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.785E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4806	38.87	3.887E+01	2.047E-11
4876       38.11       3.811E+01       1.718E-11         4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4826	38.12	3.812E+01	1.721E-11
4895       38.74       3.874E+01       1.986E-11         4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4850	37.51	3.751E+01	1.496E-11
4919       37.45       3.745E+01       1.476E-11         4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4876	38.11	3.811E+01	1.718E-11
4950       38.38       3.838E+01       1.827E-11         4974       38.58       3.858E+01       1.912E-11         5002       38.28       3.828E+01       1.785E-11         5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4895	38.74	3.874E+01	1.986E-11
4974     38.58     3.858E+01     1.912E-11       5002     38.28     3.828E+01     1.785E-11       5028     38.63     3.863E+01     1.934E-11       5054     38.22     3.822E+01     1.761E-11       5079     38.13     3.813E+01     1.723E-11       5100     38.87     3.887E+01     2.047E-11	4919	37.45	3.745E+01	1.476E-11
5002     38.28     3.828E+01     1.785E-11       5028     38.63     3.863E+01     1.934E-11       5054     38.22     3.822E+01     1.761E-11       5079     38.13     3.813E+01     1.723E-11       5100     38.87     3.887E+01     2.047E-11	4950	38.38	3.838E+01	1.827E-11
5028       38.63       3.863E+01       1.934E-11         5054       38.22       3.822E+01       1.761E-11         5079       38.13       3.813E+01       1.723E-11         5100       38.87       3.887E+01       2.047E-11	4974	38.58	3.858E+01	1.912E-11
5054     38.22     3.822E+01     1.761E-11       5079     38.13     3.813E+01     1.723E-11       5100     38.87     3.887E+01     2.047E-11	5002	38.28	3.828E+01	1.785E-11
5079     38.13     3.813E+01     1.723E-11       5100     38.87     3.887E+01     2.047E-11	5028	38.63	3.863E+01	1.934E-11
5100 38.87 3.887E+01 2.047E-11	5054	38.22	3.822E+01	1.761E-11
	5079	38.13	3.813E+01	1.723E-11
5117 39.31 3.931E+01 2.262E-11	5100	38.87	3.887E+01	2.047E-11
	5117	39.31	3.931E+01	2.262E-11



5141	38.77	3.877E+01	1.999E-11
5167	38.99	3.899E+01	2.102E-11
5193	39.24	3.924E+01	2.225E-11
5224	38.60	3.860E+01	1.921E-11
5251	38.77	3.877E+01	2.000E-11
5274	39.21	3.921E+01	2.211E-11
5302	39.45	3.945E+01	2.336E-11
5327	39.73	3.973E+01	2.490E-11
5354	39.83	3.983E+01	2.551E-11
5380	39.55	3.955E+01	2.394E-11
5406	39.70	3.970E+01	2.475E-11
5432	39.60	3.960E+01	2.418E-11
5460	39.59	3.959E+01	2.412E-11
5483	39.92	3.992E+01	2.602E-11
5508	39.76	3.976E+01	2.507E-11
5537	40.18	4.018E+01	2.763E-11
5563	39.89	3.989E+01	2.585E-11
5589	40.24	4.024E+01	2.801E-11
5615	40.18	4.018E+01	2.763E-11
5641	40.82	4.082E+01	3.200E-11
5667	41.02	4.102E+01	3.354E-11
5691	41.38	4.138E+01	3.643E-11
5719	42.09	4.209E+01	4.293E-11
5740	42.16	4.216E+01	4.362E-11
5769	42.16	4.216E+01	4.363E-11
5804	41.97	4.197E+01	4.173E-11
5841	42.04	4.204E+01	4.244E-11
5879	42.00	4.200E+01	4.203E-11
5910	42.03	4.203E+01	4.236E-11
5931	41.60	4.160E+01	3.838E-11
5941	44.53	4.453E+01	7.520E-11
5942	43.13	4.313E+01	5.459E-11
5969	42.64	4.264E+01	4.869E-11
5982	42.96	4.296E+01	5.244E-11
5982	41.92	4.192E+01	4.124E-11
5997	40.57	4.057E+01	3.024E-11