

Prepared by: Dr Vitas Anderson (Two Fields Consulting)

Date: 14 June 2022

FCC ID: 2AFYJ-OASLV204 (Configuration 4, Figure 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

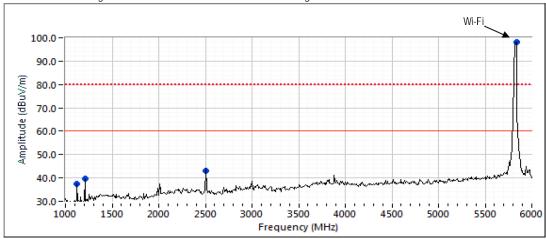
EMC test spectral plot

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 powe. 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

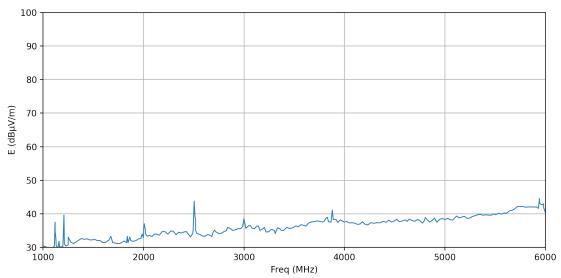




Table of extracted data from EMC test spectral plot

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 4809 37.45 3.838E+01 1.752E-11 4800 38.88 3.838E+01 1.752E-11 4800 38.88 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 4545	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 1.785E-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