

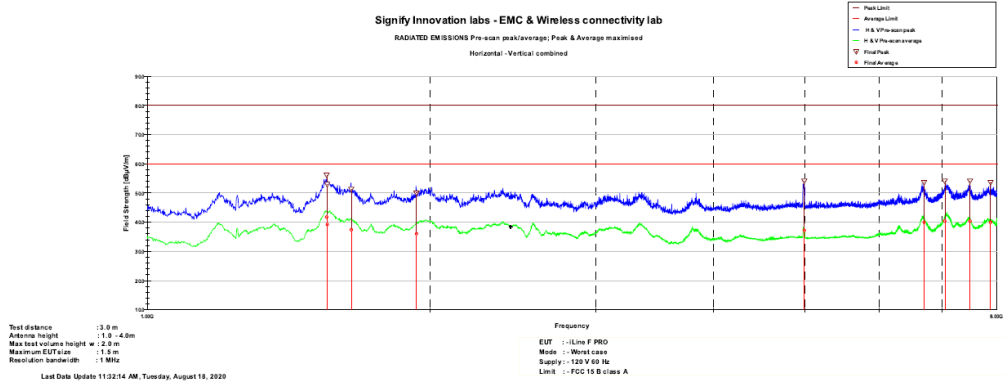
Prepared by: Dr Vitas Anderson (Two Fields Consulting)  
Date: 14 June 2022

FCC ID: 2AXQY-I3TFMICG02A (Configuration 1, Figure 12, Class A device)  
Frequency span: 1 GHz to 8 GHz  
RBW: 0.001 GHz, distance: 3 m  
Peak-to-average correction: N/A  
No. of sample points: 7,000  
Cumulative S level:  $1.030\text{E-}07 \text{ W/m}^2$   
Device radiated power: 0.0071 mW

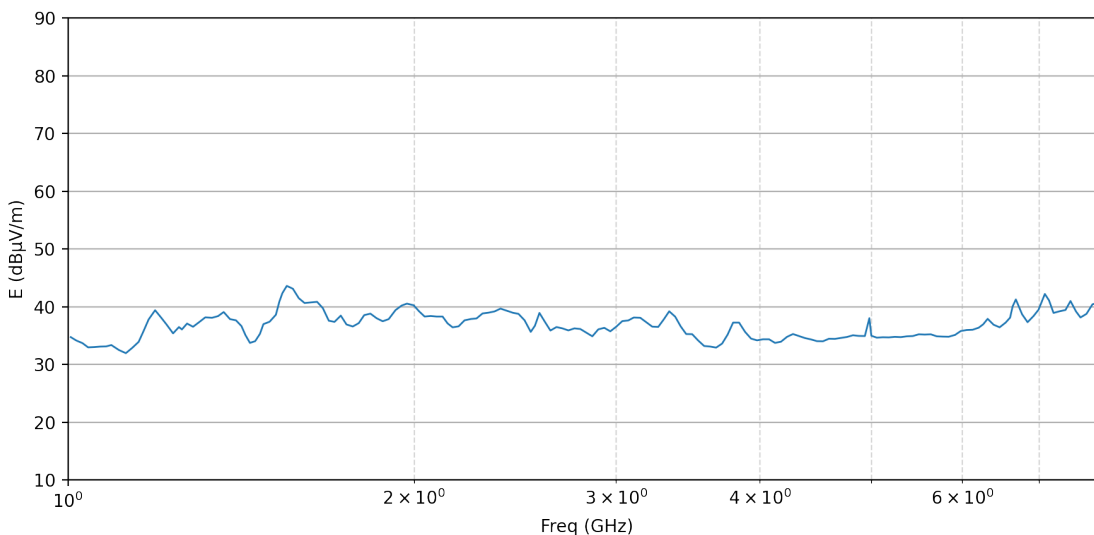
## EMC test spectral plot

### Radiated spurious emissions 1-8 GHz FCC part 15

**Result Pre-test:** Graph with peak values (combined horizontal and vertical polarisation)



## Plot of extracted data from EMC test spectral plot



*Table of extracted data from EMC test spectral plot*

Freq (GHz)	E (dBμV/m)	E (V/m rms)	S (W/m²)
1.005	34.74	3.474E+01	7.908E-12
1.017	34.16	3.416E+01	6.916E-12
1.029	33.70	3.370E+01	6.213E-12
1.041	32.97	3.297E+01	5.256E-12
1.054	33.02	3.302E+01	5.319E-12
1.067	33.11	3.311E+01	5.428E-12
1.079	33.14	3.314E+01	5.463E-12
1.091	33.37	3.337E+01	5.764E-12
1.107	32.51	3.251E+01	4.727E-12
1.123	31.96	3.196E+01	4.170E-12
1.137	32.89	3.289E+01	5.156E-12
1.152	33.92	3.392E+01	6.541E-12
1.163	35.72	3.572E+01	9.904E-12
1.175	37.80	3.780E+01	1.599E-11
1.191	39.40	3.940E+01	2.310E-11
1.205	38.13	3.813E+01	1.725E-11
1.218	36.96	3.696E+01	1.319E-11
1.234	35.40	3.540E+01	9.188E-12
1.249	36.49	3.649E+01	1.182E-11
1.256	36.07	3.607E+01	1.073E-11
1.269	37.09	3.709E+01	1.359E-11
1.285	36.54	3.654E+01	1.195E-11
1.303	37.47	3.747E+01	1.480E-11
1.316	38.17	3.817E+01	1.739E-11
1.334	38.10	3.810E+01	1.711E-11
1.35	38.38	3.838E+01	1.825E-11
1.366	39.09	3.909E+01	2.150E-11
1.383	37.86	3.786E+01	1.622E-11
1.4	37.65	3.765E+01	1.545E-11
1.415	36.66	3.666E+01	1.229E-11
1.427	35.09	3.509E+01	8.570E-12
1.44	33.74	3.374E+01	6.280E-12
1.455	34.05	3.405E+01	6.733E-12
1.469	35.30	3.530E+01	8.993E-12
1.479	36.99	3.699E+01	1.327E-11
1.498	37.41	3.741E+01	1.461E-11
1.516	38.62	3.862E+01	1.930E-11
1.527	40.91	4.091E+01	3.272E-11
1.536	42.36	4.236E+01	4.562E-11
1.55	43.61	4.361E+01	6.094E-11
1.569	43.12	4.312E+01	5.445E-11
1.588	41.49	4.149E+01	3.738E-11
1.606	40.65	4.065E+01	3.082E-11
1.626	40.75	4.075E+01	3.152E-11
1.647	40.85	4.085E+01	3.229E-11
1.666	39.77	3.977E+01	2.517E-11

1.686	37.58	3.758E+01	1.521E-11
1.705	37.38	3.738E+01	1.452E-11
1.727	38.47	3.847E+01	1.864E-11
1.747	36.94	3.694E+01	1.310E-11
1.769	36.58	3.658E+01	1.208E-11
1.79	37.16	3.716E+01	1.381E-11
1.81	38.56	3.856E+01	1.902E-11
1.833	38.81	3.881E+01	2.016E-11
1.856	38.00	3.800E+01	1.675E-11
1.878	37.49	3.749E+01	1.488E-11
1.901	37.86	3.786E+01	1.622E-11
1.927	39.42	3.942E+01	2.322E-11
1.951	40.21	4.021E+01	2.786E-11
1.972	40.54	4.054E+01	3.004E-11
1.998	40.26	4.026E+01	2.816E-11
2.021	39.20	3.920E+01	2.206E-11
2.043	38.31	3.831E+01	1.795E-11
2.068	38.40	3.840E+01	1.834E-11
2.092	38.31	3.831E+01	1.795E-11
2.118	38.31	3.831E+01	1.795E-11
2.139	37.12	3.712E+01	1.366E-11
2.161	36.44	3.644E+01	1.169E-11
2.187	36.61	3.661E+01	1.214E-11
2.213	37.65	3.765E+01	1.545E-11
2.242	37.89	3.789E+01	1.630E-11
2.267	37.98	3.798E+01	1.666E-11
2.294	38.84	3.884E+01	2.031E-11
2.322	38.98	3.898E+01	2.097E-11
2.35	39.19	3.919E+01	2.201E-11
2.378	39.68	3.968E+01	2.463E-11
2.407	39.33	3.933E+01	2.273E-11
2.438	38.96	3.896E+01	2.086E-11
2.465	38.77	3.877E+01	1.999E-11
2.496	37.66	3.766E+01	1.549E-11
2.527	35.65	3.565E+01	9.746E-12
2.548	36.72	3.672E+01	1.247E-11
2.571	38.93	3.893E+01	2.075E-11
2.6	37.38	3.738E+01	1.452E-11
2.628	35.88	3.588E+01	1.028E-11
2.661	36.49	3.649E+01	1.182E-11
2.692	36.26	3.626E+01	1.120E-11
2.725	35.91	3.591E+01	1.034E-11
2.757	36.26	3.626E+01	1.120E-11
2.79	36.15	3.615E+01	1.094E-11
2.824	35.51	3.551E+01	9.437E-12
2.859	34.88	3.488E+01	8.166E-12
2.893	36.09	3.609E+01	1.079E-11
2.928	36.35	3.635E+01	1.145E-11
2.963	35.74	3.574E+01	9.957E-12

## Calculate device radiated power from EMC test data

2.999	36.56	3.656E+01	1.201E-11
3.035	37.51	3.751E+01	1.496E-11
3.072	37.63	3.763E+01	1.537E-11
3.106	38.14	3.814E+01	1.728E-11
3.147	38.10	3.810E+01	1.711E-11
3.184	37.33	3.733E+01	1.434E-11
3.223	36.56	3.656E+01	1.201E-11
3.262	36.51	3.651E+01	1.188E-11
3.298	37.80	3.780E+01	1.599E-11
3.334	39.21	3.921E+01	2.213E-11
3.375	38.28	3.828E+01	1.786E-11
3.412	36.60	3.660E+01	1.213E-11
3.45	35.28	3.528E+01	8.945E-12
3.491	35.26	3.526E+01	8.897E-12
3.533	34.16	3.416E+01	6.916E-12
3.576	33.21	3.321E+01	5.552E-12
3.619	33.11	3.311E+01	5.434E-12
3.663	32.93	3.293E+01	5.206E-12
3.707	33.63	3.363E+01	6.114E-12
3.748	35.18	3.518E+01	8.737E-12
3.79	37.26	3.726E+01	1.411E-11
3.835	37.26	3.726E+01	1.411E-11
3.882	35.65	3.565E+01	9.746E-12
3.929	34.49	3.449E+01	7.455E-12
3.976	34.19	3.419E+01	6.953E-12
4.024	34.37	3.437E+01	7.258E-12
4.073	34.37	3.437E+01	7.258E-12
4.122	33.74	3.374E+01	6.280E-12
4.171	33.95	3.395E+01	6.590E-12
4.222	34.79	3.479E+01	7.993E-12
4.273	35.28	3.528E+01	8.945E-12
4.324	34.93	3.493E+01	8.254E-12
4.376	34.58	3.458E+01	7.616E-12
4.429	34.35	3.435E+01	7.219E-12
4.483	34.05	3.405E+01	6.733E-12
4.537	34.02	3.402E+01	6.697E-12
4.592	34.46	3.446E+01	7.415E-12
4.647	34.44	3.444E+01	7.375E-12
4.703	34.60	3.460E+01	7.657E-12
4.76	34.77	3.477E+01	7.950E-12
4.818	35.07	3.507E+01	8.515E-12
4.875	34.95	3.495E+01	8.298E-12
4.934	34.93	3.493E+01	8.254E-12
4.979	38.03	3.803E+01	1.684E-11
4.999	34.98	3.498E+01	8.352E-12
5.054	34.65	3.465E+01	7.740E-12
5.115	34.72	3.472E+01	7.865E-12
5.177	34.70	3.470E+01	7.823E-12
5.239	34.79	3.479E+01	7.993E-12

5.303	34.74	3.474E+01	7.908E-12
5.367	34.88	3.488E+01	8.166E-12
5.432	34.93	3.493E+01	8.254E-12
5.497	35.23	3.523E+01	8.850E-12
5.563	35.19	3.519E+01	8.755E-12
5.631	35.23	3.523E+01	8.850E-12
5.699	34.88	3.488E+01	8.166E-12
5.767	34.84	3.484E+01	8.079E-12
5.837	34.81	3.481E+01	8.036E-12
5.911	35.12	3.512E+01	8.625E-12
5.979	35.79	3.579E+01	1.006E-11
6.051	35.98	3.598E+01	1.051E-11
6.124	36.02	3.602E+01	1.062E-11
6.198	36.37	3.637E+01	1.151E-11
6.254	36.96	3.696E+01	1.316E-11
6.31	37.91	3.791E+01	1.639E-11
6.387	36.89	3.689E+01	1.295E-11
6.464	36.44	3.644E+01	1.169E-11
6.542	37.26	3.726E+01	1.411E-11
6.601	38.12	3.812E+01	1.720E-11
6.634	40.05	4.005E+01	2.684E-11
6.677	41.27	4.127E+01	3.556E-11
6.761	38.70	3.870E+01	1.965E-11
6.836	37.33	3.733E+01	1.434E-11
6.918	38.40	3.840E+01	1.834E-11
6.988	39.49	3.949E+01	2.360E-11
7.076	42.22	4.222E+01	4.418E-11
7.136	41.10	4.110E+01	3.416E-11
7.201	38.93	3.893E+01	2.075E-11
7.288	39.21	3.921E+01	2.213E-11
7.376	39.45	3.945E+01	2.335E-11
7.45	40.99	4.099E+01	3.334E-11
7.532	39.19	3.919E+01	2.201E-11
7.6	38.14	3.814E+01	1.729E-11
7.692	38.77	3.877E+01	1.999E-11
7.785	40.42	4.042E+01	2.924E-11
7.88	40.71	4.071E+01	3.122E-11
7.971	39.79	3.979E+01	2.525E-11