

Prepared by: Dr Vitas Anderson (Two Fields Consulting)

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FCC ID: 2AFYJ-OASLV204 (Configuration 3, Figure 44b, Class A device)

Frequency span: 12,000 MHz to 18,000 MHz

RBW: 1.0 MHz, distance: 3 m

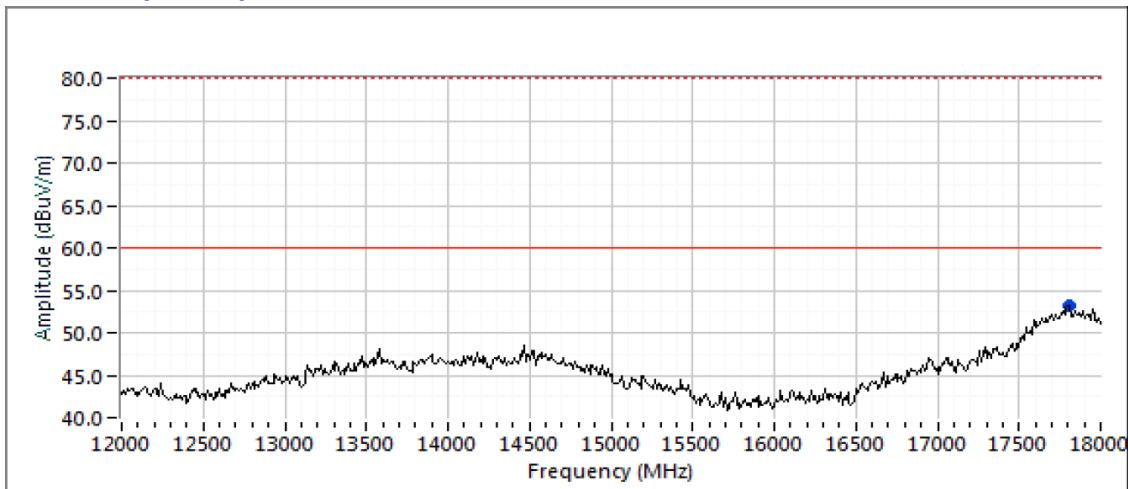
Peak-to-average correction: -0.00 dB

No. of sample points: 6,000

Cumulative S level: $6.712\text{E-}07 \text{ W/m}^2$

Device radiated power: 0.0463 mW

EMC test spectral plot



Plot of extracted data from EMC test spectral plot

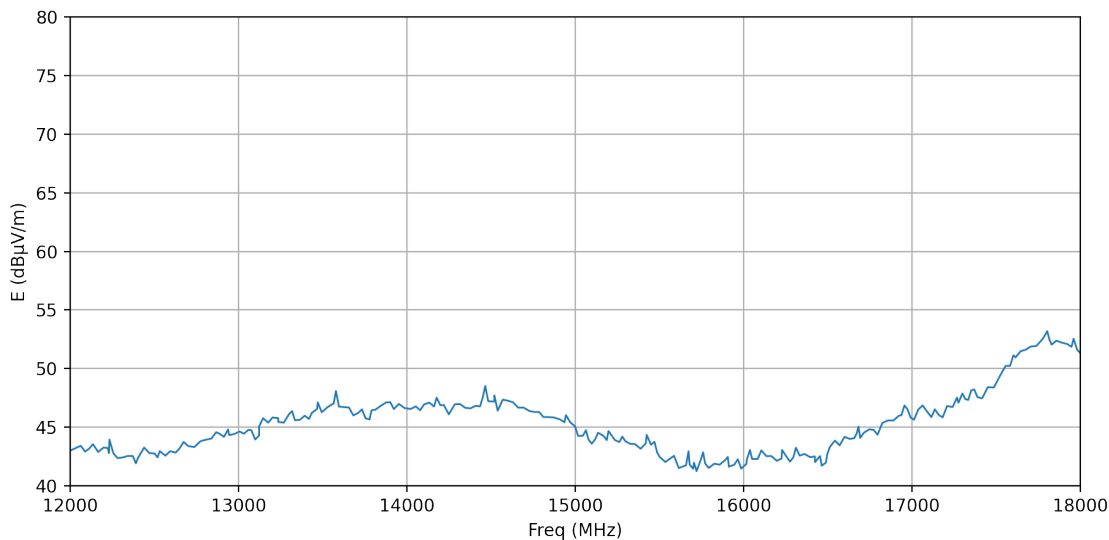


Table of extracted data from EMC test spectral plot

Freq (MHz)	E (dBμV/m)	E (V/m rms)	S (W/m²)
12007	43.03	4.303E+01	5.331E-11
12035	43.23	4.323E+01	5.576E-11
12064	43.41	4.341E+01	5.814E-11
12090	42.92	4.292E+01	5.191E-11
12113	43.15	4.315E+01	5.475E-11
12136	43.54	4.354E+01	5.999E-11
12167	42.88	4.288E+01	5.152E-11
12200	43.26	4.326E+01	5.620E-11
12224	43.21	4.321E+01	5.559E-11
12231	42.78	4.278E+01	5.035E-11
12234	43.94	4.394E+01	6.573E-11
12257	42.78	4.278E+01	5.035E-11
12281	42.36	4.236E+01	4.571E-11
12311	42.40	4.240E+01	4.613E-11
12342	42.54	4.254E+01	4.756E-11
12373	42.54	4.254E+01	4.756E-11
12391	41.91	4.191E+01	4.115E-11
12403	42.35	4.235E+01	4.561E-11
12440	43.25	4.325E+01	5.613E-11
12471	42.78	4.278E+01	5.035E-11
12502	42.75	4.275E+01	4.997E-11
12520	42.42	4.242E+01	4.631E-11
12533	42.95	4.295E+01	5.231E-11
12566	42.56	4.256E+01	4.787E-11
12595	42.95	4.295E+01	5.231E-11
12627	42.82	4.282E+01	5.083E-11
12651	43.20	4.320E+01	5.538E-11
12675	43.73	4.373E+01	6.266E-11
12703	43.38	4.338E+01	5.775E-11
12739	43.30	4.330E+01	5.677E-11
12775	43.80	4.380E+01	6.364E-11
12811	43.94	4.394E+01	6.573E-11
12840	44.02	4.402E+01	6.695E-11
12868	44.57	4.457E+01	7.597E-11
12891	44.40	4.440E+01	7.313E-11
12914	44.17	4.417E+01	6.933E-11
12939	44.80	4.480E+01	8.009E-11
12945	44.31	4.431E+01	7.162E-11
12977	44.42	4.442E+01	7.335E-11
13007	44.63	4.463E+01	7.701E-11
13033	44.44	4.444E+01	7.369E-11
13059	44.76	4.476E+01	7.937E-11
13077	44.74	4.474E+01	7.892E-11
13100	43.94	4.394E+01	6.573E-11
13123	44.29	4.429E+01	7.121E-11
13123	45.06	4.506E+01	8.500E-11

13146	45.76	4.576E+01	9.994E-11
13177	45.38	4.538E+01	9.156E-11
13203	45.83	4.583E+01	1.015E-10
13237	45.76	4.576E+01	9.994E-11
13237	45.44	4.544E+01	9.287E-11
13270	45.38	4.538E+01	9.156E-11
13301	46.12	4.612E+01	1.085E-10
13319	46.37	4.637E+01	1.151E-10
13336	45.59	4.559E+01	9.606E-11
13367	45.63	4.563E+01	9.708E-11
13394	45.98	4.598E+01	1.050E-10
13420	45.69	4.569E+01	9.843E-11
13436	46.20	4.620E+01	1.107E-10
13468	46.56	4.656E+01	1.202E-10
13471	47.12	4.712E+01	1.366E-10
13495	46.27	4.627E+01	1.125E-10
13530	46.71	4.671E+01	1.242E-10
13566	47.03	4.703E+01	1.337E-10
13579	48.07	4.807E+01	1.703E-10
13598	46.75	4.675E+01	1.255E-10
13627	46.71	4.671E+01	1.243E-10
13657	46.67	4.667E+01	1.232E-10
13683	46.00	4.600E+01	1.055E-10
13714	46.23	4.623E+01	1.114E-10
13734	46.52	4.652E+01	1.191E-10
13755	45.75	4.575E+01	9.963E-11
13779	45.66	4.566E+01	9.760E-11
13791	46.44	4.644E+01	1.168E-10
13814	46.49	4.649E+01	1.182E-10
13842	46.79	4.679E+01	1.266E-10
13878	47.12	4.712E+01	1.366E-10
13903	47.12	4.712E+01	1.366E-10
13923	46.54	4.654E+01	1.196E-10
13953	46.98	4.698E+01	1.323E-10
13987	46.63	4.663E+01	1.221E-10
14023	46.55	4.655E+01	1.198E-10
14054	46.77	4.677E+01	1.261E-10
14080	46.44	4.644E+01	1.168E-10
14103	46.93	4.693E+01	1.310E-10
14134	47.10	4.710E+01	1.359E-10
14162	46.76	4.676E+01	1.257E-10
14178	47.51	4.751E+01	1.496E-10
14200	46.86	4.686E+01	1.288E-10
14220	46.89	4.689E+01	1.297E-10
14250	46.09	4.609E+01	1.078E-10
14286	46.95	4.695E+01	1.315E-10
14317	46.97	4.697E+01	1.320E-10
14348	46.65	4.665E+01	1.225E-10
14379	46.60	4.660E+01	1.213E-10

14409	46.82	4.682E+01	1.275E-10
14435	46.77	4.677E+01	1.261E-10
14450	47.47	4.747E+01	1.482E-10
14466	48.51	4.851E+01	1.881E-10
14484	47.20	4.720E+01	1.393E-10
14520	47.18	4.718E+01	1.387E-10
14520	47.71	4.771E+01	1.566E-10
14540	46.40	4.640E+01	1.159E-10
14571	47.35	4.735E+01	1.440E-10
14600	47.26	4.726E+01	1.411E-10
14631	47.12	4.712E+01	1.366E-10
14662	46.66	4.666E+01	1.229E-10
14693	46.67	4.667E+01	1.232E-10
14729	46.37	4.637E+01	1.151E-10
14760	46.29	4.629E+01	1.129E-10
14787	46.29	4.629E+01	1.129E-10
14812	45.86	4.586E+01	1.022E-10
14840	45.86	4.586E+01	1.022E-10
14874	45.83	4.583E+01	1.015E-10
14910	45.66	4.566E+01	9.768E-11
14937	45.41	4.541E+01	9.226E-11
14946	46.03	4.603E+01	1.062E-10
14971	45.41	4.541E+01	9.208E-11
15000	45.06	4.506E+01	8.510E-11
15018	44.25	4.425E+01	7.053E-11
15046	44.26	4.426E+01	7.072E-11
15064	44.74	4.474E+01	7.892E-11
15080	43.94	4.394E+01	6.573E-11
15099	43.58	4.358E+01	6.054E-11
15118	43.94	4.394E+01	6.573E-11
15136	44.52	4.452E+01	7.511E-11
15169	44.25	4.425E+01	7.051E-11
15188	43.89	4.389E+01	6.499E-11
15198	44.67	4.467E+01	7.773E-11
15236	43.90	4.390E+01	6.514E-11
15263	43.73	4.373E+01	6.256E-11
15281	44.19	4.419E+01	6.960E-11
15299	43.79	4.379E+01	6.352E-11
15327	43.58	4.358E+01	6.045E-11
15356	43.55	4.355E+01	6.013E-11
15389	43.16	4.316E+01	5.486E-11
15420	43.61	4.361E+01	6.091E-11
15425	44.34	4.434E+01	7.203E-11
15451	43.49	4.349E+01	5.931E-11
15472	43.74	4.374E+01	6.280E-11
15487	42.85	4.285E+01	5.113E-11
15502	42.45	4.245E+01	4.666E-11
15536	42.02	4.202E+01	4.228E-11
15562	42.29	4.229E+01	4.498E-11

15588	42.55	4.255E+01	4.774E-11
15616	41.51	4.151E+01	3.756E-11
15659	41.75	4.175E+01	3.965E-11
15674	42.94	4.294E+01	5.223E-11
15680	41.81	4.181E+01	4.022E-11
15701	41.44	4.144E+01	3.699E-11
15706	41.97	4.197E+01	4.174E-11
15722	41.24	4.124E+01	3.531E-11
15745	42.14	4.214E+01	4.344E-11
15760	42.85	4.285E+01	5.113E-11
15772	41.91	4.191E+01	4.115E-11
15794	41.52	4.152E+01	3.761E-11
15827	41.88	4.188E+01	4.092E-11
15858	41.79	4.179E+01	4.007E-11
15891	42.18	4.218E+01	4.385E-11
15907	42.45	4.245E+01	4.666E-11
15914	41.62	4.162E+01	3.853E-11
15946	41.80	4.180E+01	4.014E-11
15966	42.25	4.225E+01	4.458E-11
15987	41.46	4.146E+01	3.713E-11
16017	41.86	4.186E+01	4.068E-11
16021	42.25	4.225E+01	4.458E-11
16039	43.05	4.305E+01	5.352E-11
16052	42.27	4.227E+01	4.478E-11
16085	42.29	4.229E+01	4.492E-11
16106	43.02	4.302E+01	5.315E-11
16137	42.52	4.252E+01	4.738E-11
16165	42.53	4.253E+01	4.753E-11
16198	42.12	4.212E+01	4.324E-11
16226	42.32	4.232E+01	4.526E-11
16229	43.05	4.305E+01	5.352E-11
16261	42.37	4.237E+01	4.581E-11
16276	42.06	4.206E+01	4.258E-11
16296	42.42	4.242E+01	4.631E-11
16312	43.25	4.325E+01	5.602E-11
16334	42.56	4.256E+01	4.787E-11
16363	42.71	4.271E+01	4.952E-11
16396	42.44	4.244E+01	4.648E-11
16424	42.50	4.250E+01	4.720E-11
16425	42.01	4.201E+01	4.218E-11
16455	42.53	4.253E+01	4.752E-11
16465	41.71	4.171E+01	3.931E-11
16490	41.97	4.197E+01	4.178E-11
16497	42.66	4.266E+01	4.898E-11
16513	43.30	4.330E+01	5.677E-11
16543	43.85	4.385E+01	6.440E-11
16571	43.45	4.345E+01	5.864E-11
16601	44.17	4.417E+01	6.933E-11
16632	43.99	4.399E+01	6.649E-11

16658	44.06	4.406E+01	6.751E-11
16673	44.47	4.447E+01	7.425E-11
16683	45.05	4.505E+01	8.476E-11
16693	44.07	4.407E+01	6.777E-11
16716	44.53	4.453E+01	7.522E-11
16748	44.81	4.481E+01	8.028E-11
16773	44.77	4.477E+01	7.946E-11
16797	44.35	4.435E+01	7.223E-11
16825	45.36	4.536E+01	9.103E-11
16858	45.57	4.557E+01	9.565E-11
16891	45.57	4.557E+01	9.562E-11
16923	45.97	4.597E+01	1.048E-10
16938	46.03	4.603E+01	1.062E-10
16956	46.85	4.685E+01	1.285E-10
16974	46.52	4.652E+01	1.191E-10
16992	45.83	4.583E+01	1.015E-10
17013	45.63	4.563E+01	9.694E-11
17039	46.51	4.651E+01	1.187E-10
17064	46.85	4.685E+01	1.284E-10
17085	46.43	4.643E+01	1.167E-10
17116	45.85	4.585E+01	1.021E-10
17137	46.52	4.652E+01	1.191E-10
17160	46.04	4.604E+01	1.066E-10
17183	45.83	4.583E+01	1.015E-10
17209	46.80	4.680E+01	1.269E-10
17242	46.71	4.671E+01	1.245E-10
17268	47.51	4.751E+01	1.496E-10
17277	47.08	4.708E+01	1.355E-10
17300	47.87	4.787E+01	1.623E-10
17318	47.39	4.739E+01	1.456E-10
17335	47.32	4.732E+01	1.430E-10
17353	48.14	4.814E+01	1.729E-10
17371	48.21	4.821E+01	1.756E-10
17389	47.56	4.756E+01	1.514E-10
17418	47.45	4.745E+01	1.476E-10
17451	48.41	4.841E+01	1.838E-10
17487	48.38	4.838E+01	1.828E-10
17525	49.40	4.940E+01	2.313E-10
17557	50.22	5.022E+01	2.789E-10
17584	50.23	5.023E+01	2.799E-10
17603	51.13	5.113E+01	3.441E-10
17616	50.95	5.095E+01	3.301E-10
17647	51.48	5.148E+01	3.732E-10
17677	51.60	5.160E+01	3.836E-10
17706	51.88	5.188E+01	4.089E-10
17740	51.92	5.192E+01	4.129E-10
17779	52.55	5.255E+01	4.771E-10
17804	53.19	5.319E+01	5.529E-10
17817	52.48	5.248E+01	4.690E-10

Calculate device radiated power from EMC test data

17830	52.04	5.204E+01	4.242E-10
17859	52.38	5.238E+01	4.584E-10
17889	52.21	5.221E+01	4.413E-10
17922	52.10	5.210E+01	4.300E-10
17949	51.86	5.186E+01	4.066E-10
17961	52.54	5.254E+01	4.762E-10
17982	51.61	5.161E+01	3.840E-10
18003	51.28	5.128E+01	3.566E-10