

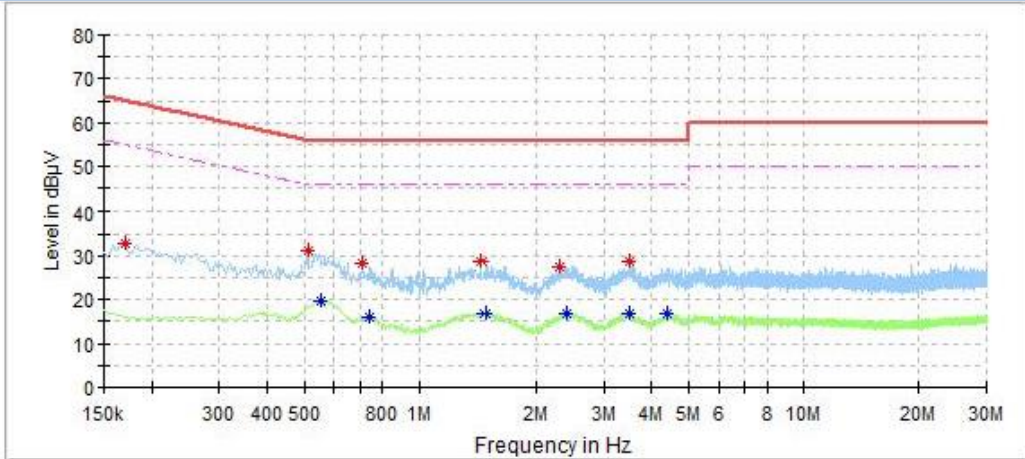
Appendix A

Test Results

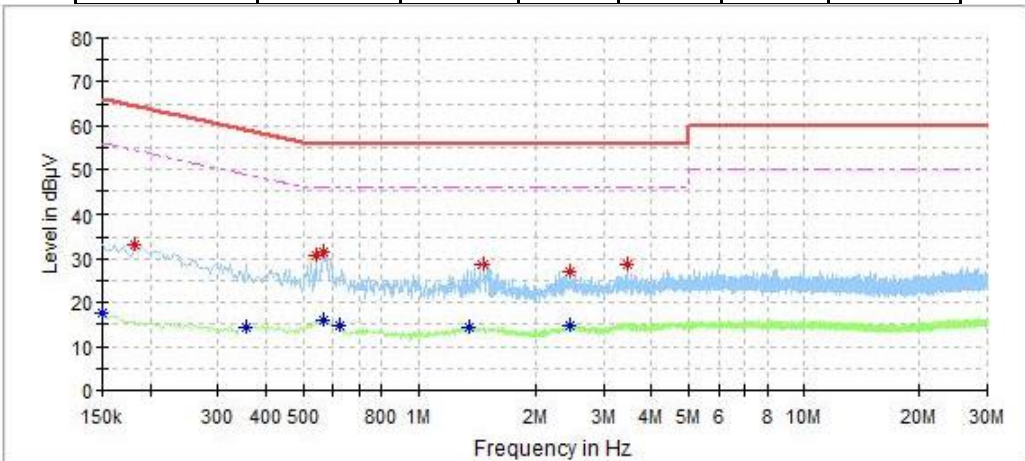
APPENDIX A.....	1
APPENDIX A.1: TEST PLOTS OF CONDUCTED EMISSION.....	2
APPENDIX A.2: TEST PLOTS OF RADIATED EMISSION	4

Appendix A1: Test Plots of Conducted Emission

Battery: AEC521224
Mode: B

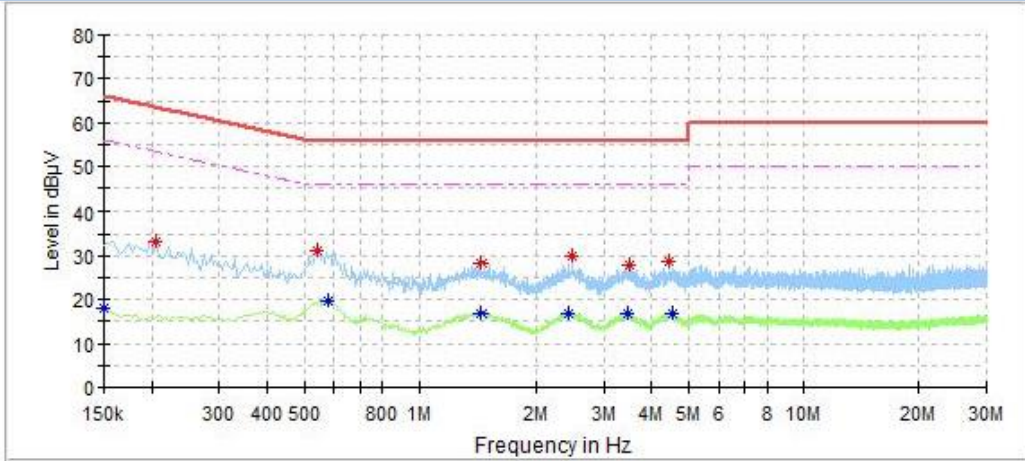


Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170000	32.97	—	64.96	31.99	L1	9.6
0.512000	31.00	—	56.00	25.00	L1	9.7
0.552000	—	19.57	46.00	26.43	L1	9.7
0.712000	28.31	—	56.00	27.69	L1	9.7
0.740000	—	15.96	46.00	30.04	L1	9.7
1.448000	28.65	—	56.00	27.35	L1	9.7
1.472000	—	16.73	46.00	29.27	L1	9.7
2.288000	27.64	—	56.00	28.36	L1	9.7
2.408000	—	16.92	46.00	29.08	L1	9.8
3.504000	28.58	—	56.00	27.42	L1	9.8
3.516000	—	16.89	46.00	29.11	L1	9.8
4.416000	—	16.88	46.00	29.12	L1	9.8

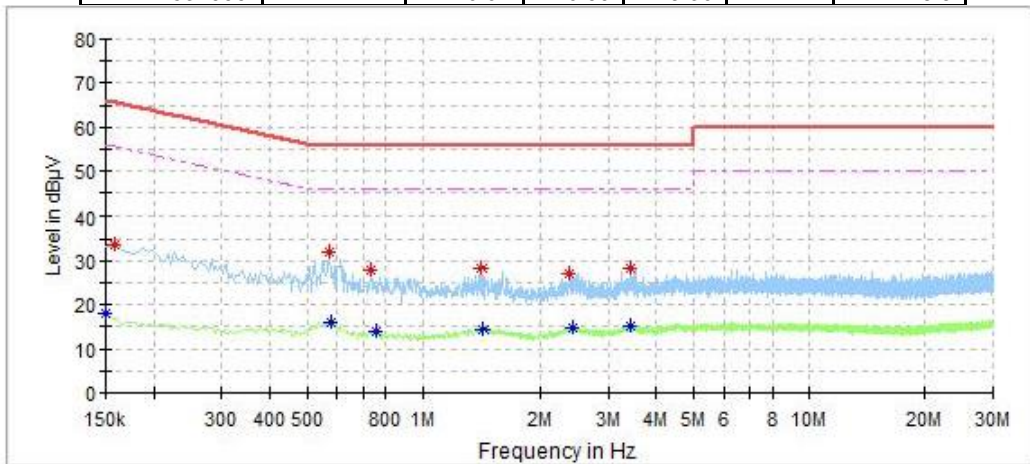


Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	—	17.76	56.00	38.24	N	9.6
0.182000	33.19	—	64.39	31.21	N	9.6
0.354000	—	14.52	48.87	34.34	N	9.7
0.540000	30.93	—	56.00	25.07	N	9.7
0.564000	—	15.94	46.00	30.06	N	9.7
0.568000	31.56	—	56.00	24.44	N	9.7
0.620000	—	14.88	46.00	31.12	N	9.7
1.356000	—	14.40	46.00	31.60	N	9.7
1.456000	28.54	—	56.00	27.46	N	9.7
2.448000	27.05	—	56.00	28.95	N	9.8
2.456000	—	14.74	46.00	31.26	N	9.8
3.464000	28.68	—	56.00	27.32	N	9.8

Battery: VDL 541222
Mode: B



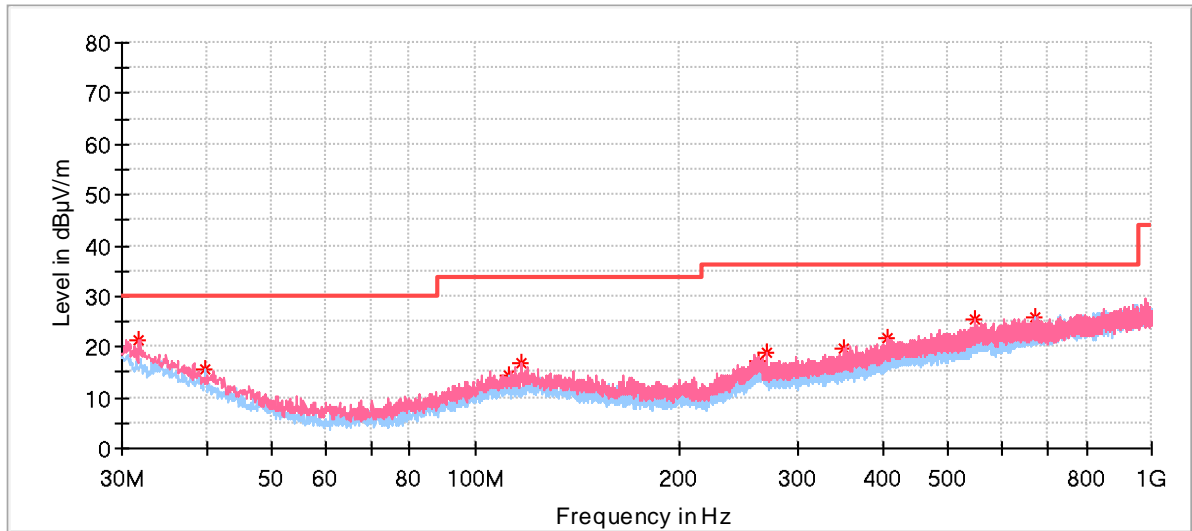
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	—	18.10	56.00	37.90	L1	9.6
0.206000	33.24	—	63.37	30.12	L1	9.6
0.540000	31.28	—	56.00	24.72	L1	9.7
0.576000	—	19.65	46.00	26.35	L1	9.7
1.440000	28.42	—	56.00	27.58	L1	9.7
1.448000	—	16.96	46.00	29.04	L1	9.7
2.424000	—	16.74	46.00	29.26	L1	9.8
2.488000	29.85	—	56.00	26.15	L1	9.8
3.456000	—	16.72	46.00	29.28	L1	9.8
3.500000	27.85	—	56.00	28.15	L1	9.8
4.456000	28.59	—	56.00	27.41	L1	9.8
4.532000	—	16.64	46.00	29.36	L1	9.9



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	—	18.14	56.00	37.86	N	9.6
0.158000	33.78	—	65.57	31.79	N	9.6
0.572000	31.96	—	56.00	24.04	N	9.7
0.576000	—	15.97	46.00	30.03	N	9.7
0.736000	27.77	—	56.00	28.23	N	9.7
0.760000	—	13.83	46.00	32.17	N	9.7
1.408000	28.34	—	56.00	27.66	N	9.7
1.432000	—	14.43	46.00	31.57	N	9.7
2.372000	27.24	—	56.00	28.76	N	9.7
2.436000	—	14.86	46.00	31.14	N	9.8
3.428000	—	15.12	46.00	30.88	N	9.8
3.436000	28.27	—	56.00	27.73	N	9.8

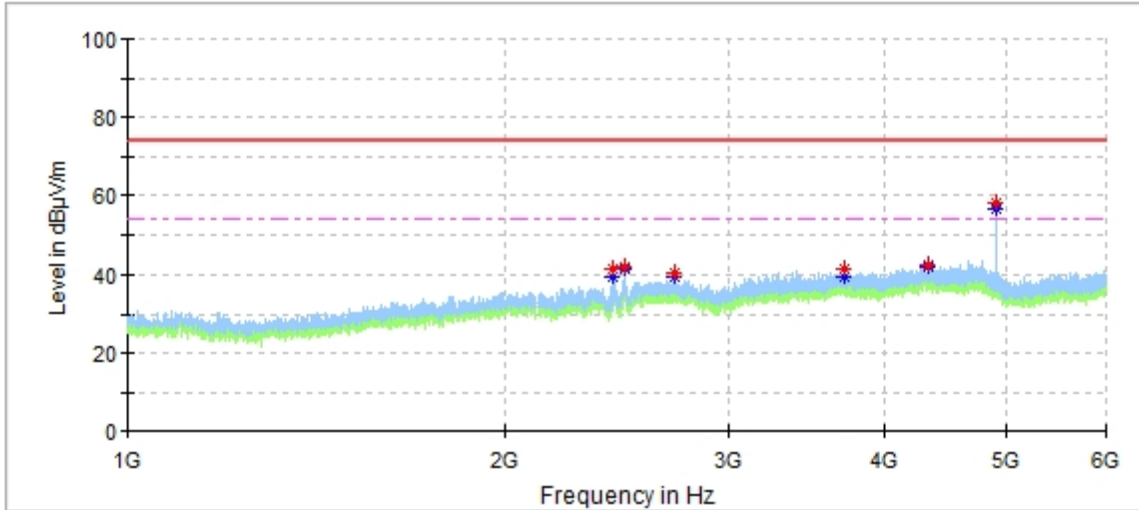
Appendix A2: Test Plots of Radiated Emission

Battery: AEC521224
Mode: A
30MHz – 1GHz

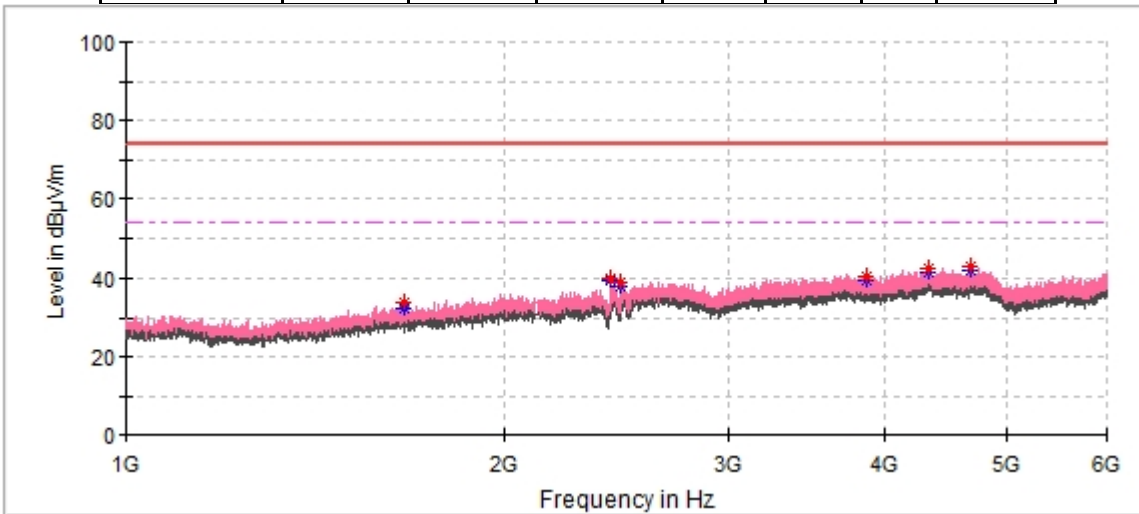


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.832222	21.37	30.00	8.63	200.0	V	20.0	-5.1
39.753889	15.51	30.00	14.49	200.0	H	276.0	-16.9
112.018889	14.44	33.50	19.06	200.0	H	79.0	-17.1
117.030556	16.62	33.50	16.88	300.0	V	320.0	-9.9
262.746111	17.39	36.00	18.61	100.0	H	329.0	-14.0
269.859444	18.79	36.00	17.21	200.0	V	173.0	-8.3
349.830556	19.82	36.00	16.18	300.0	V	244.0	-6.8
406.845000	21.83	36.00	14.17	300.0	V	28.0	-5.1
407.815000	19.20	36.00	16.80	200.0	H	291.0	-11.8
545.824444	25.48	36.00	10.52	300.0	V	309.0	-2.0
552.291111	22.65	36.00	13.35	200.0	H	136.0	-8.6
673.379444	25.67	36.00	10.33	200.0	H	122.0	-7.0

1GHz – 6GHz

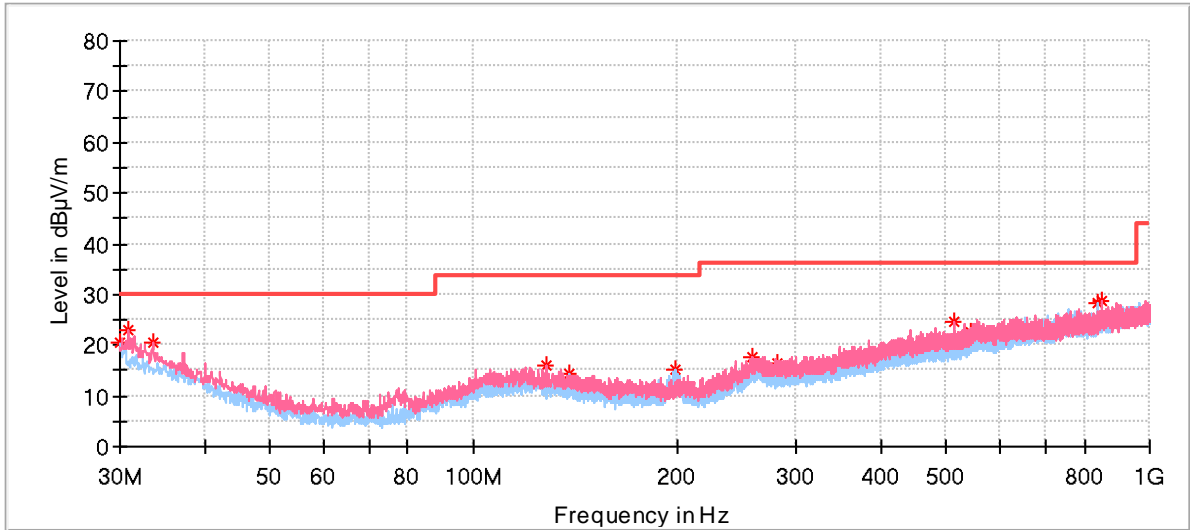


Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
2430.500000	—	39.38	54.00	14.62	100.0	H	225.0
2430.500000	41.63	—	74.00	32.37	100.0	H	225.0
2479.000000	—	41.51	54.00	12.49	100.0	H	96.0
2479.000000	42.23	—	74.00	31.77	100.0	H	96.0
2716.000000	—	39.25	54.00	14.75	100.0	H	0.0
2716.000000	40.71	—	74.00	33.29	100.0	H	0.0
3709.500000	41.62	—	74.00	32.38	100.0	H	252.0
3710.000000	—	39.47	54.00	14.53	100.0	H	252.0
4333.500000	—	42.02	54.00	11.98	100.0	H	1.0
4333.500000	42.74	—	74.00	31.26	100.0	H	1.0
4909.000000	—	56.66	—	—	100.0	H	243.0
4909.000000	57.76	—	74.00	16.24	100.0	H	243.0



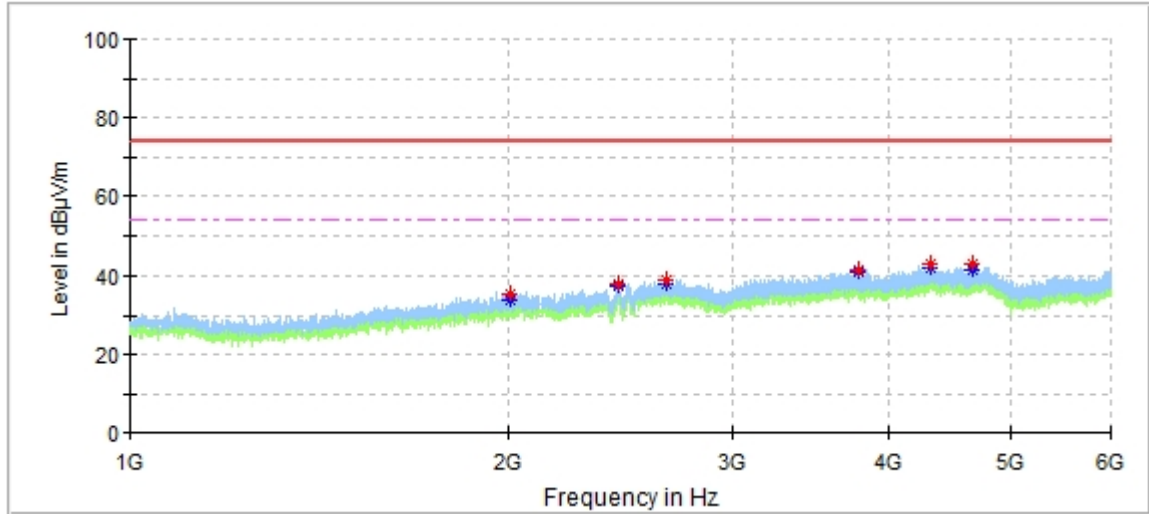
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1665.500000	—	32.27	54.00	21.73	100.0	V	84.0
1665.500000	34.08	—	74.00	39.92	100.0	V	84.0
2422.000000	—	39.31	54.00	14.69	100.0	V	8.0
2422.000000	40.20	—	74.00	33.80	100.0	V	8.0
2465.000000	—	37.88	54.00	16.12	100.0	V	0.0
2465.000000	39.19	—	74.00	34.81	100.0	V	0.0
3871.500000	—	39.37	54.00	14.63	100.0	V	28.0
3871.500000	40.56	—	74.00	33.44	100.0	V	28.0
4336.000000	—	41.75	54.00	12.25	100.0	V	33.0
4336.000000	42.64	—	74.00	31.36	100.0	V	33.0
4677.500000	—	42.23	54.00	11.77	100.0	V	245.0
4677.500000	43.09	—	74.00	30.91	100.0	V	245.0

Mode: B
30MHz – 1GHz

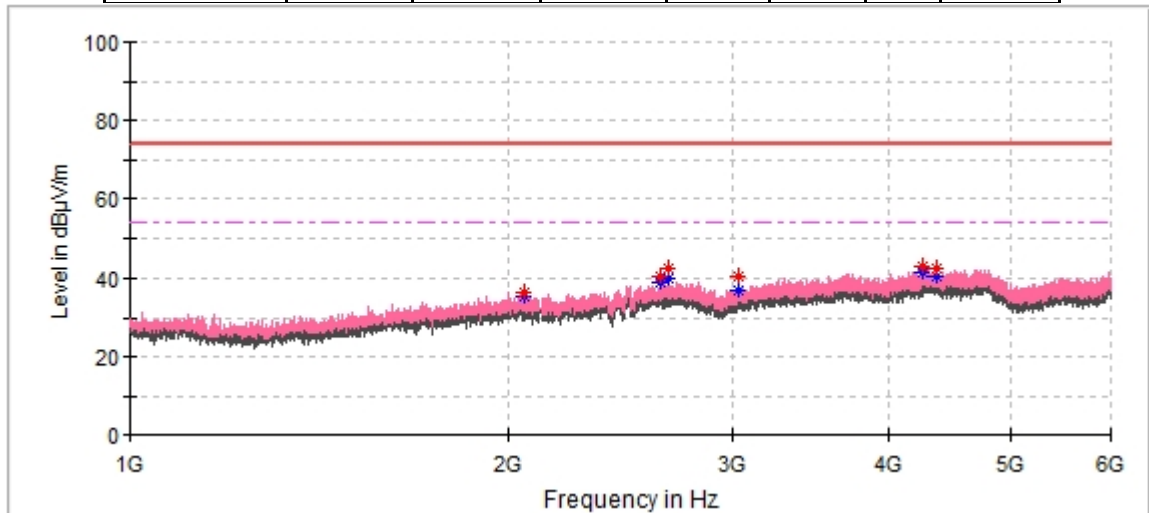


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	20.70	30.00	9.30	200.0	H	187.0	-11.4
30.862222	22.91	30.00	7.09	300.0	V	60.0	-4.6
33.556667	20.45	30.00	9.55	300.0	V	169.0	-6.1
128.293333	15.83	33.50	17.67	200.0	V	326.0	-10.3
138.801667	14.47	33.50	19.03	300.0	H	95.0	-17.5
198.618333	15.32	33.50	18.18	300.0	H	66.0	-19.3
257.842222	17.55	36.00	18.45	100.0	V	88.0	-7.9
280.637222	16.60	36.00	19.40	200.0	H	228.0	-15.3
513.437222	24.53	36.00	11.47	300.0	V	0.0	-3.2
542.860556	22.67	36.00	13.33	300.0	H	127.0	-9.2
838.117778	28.27	36.00	7.73	100.0	H	157.0	-5.0
851.590000	28.51	36.00	7.49	200.0	V	195.0	0.4

1GHz – 6GHz

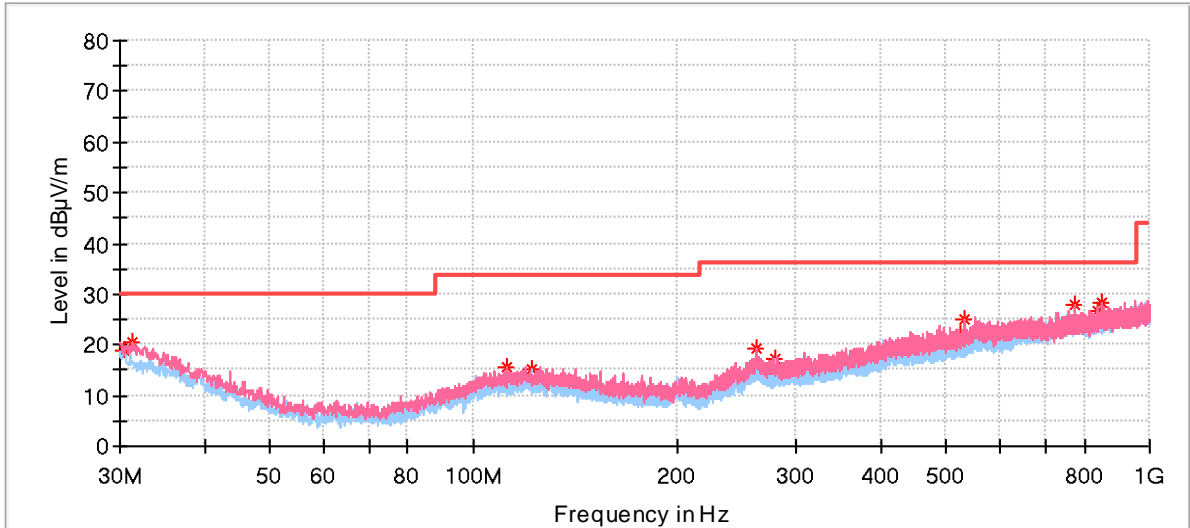


Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
2007.500000	—	34.01	54.00	19.99	100.0	H	323.0
2007.500000	35.42	—	74.00	38.58	100.0	H	323.0
2437.000000	—	37.22	54.00	16.78	100.0	H	97.0
2437.000000	38.14	—	74.00	35.86	100.0	H	97.0
2658.500000	—	37.87	54.00	16.13	100.0	H	165.0
2658.500000	39.14	—	74.00	34.86	100.0	H	165.0
3778.500000	—	40.77	54.00	13.23	100.0	H	346.0
3778.500000	41.47	—	74.00	32.53	100.0	H	346.0
4314.000000	—	42.28	54.00	11.72	100.0	H	308.0
4314.000000	43.02	—	74.00	30.98	100.0	H	308.0
4667.000000	—	41.65	54.00	12.35	100.0	H	323.0
4667.000000	42.90	—	74.00	31.10	100.0	H	323.0



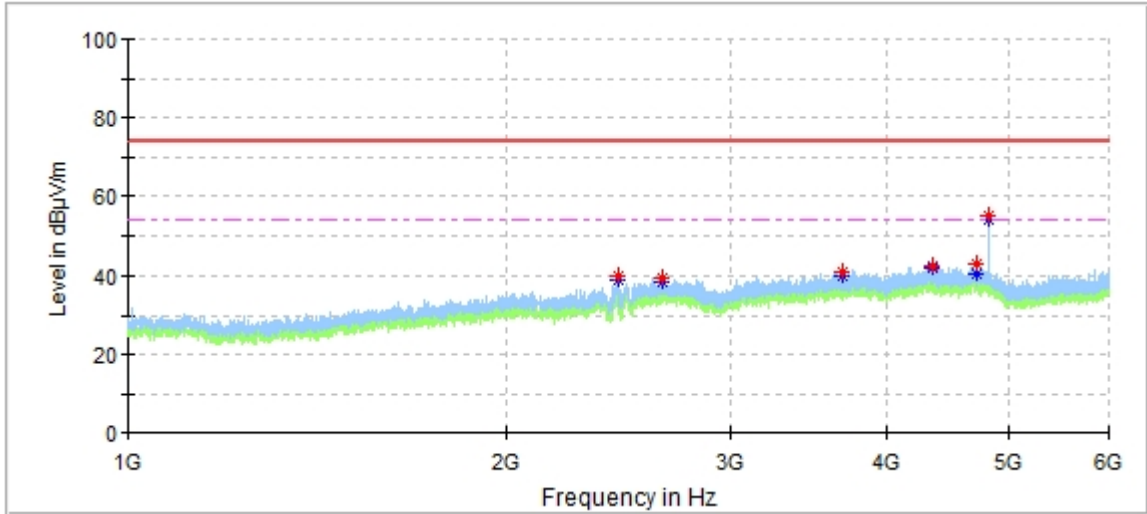
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
2059.500000	—	35.54	54.00	18.46	100.0	V	166.0
2059.500000	36.31	—	74.00	37.69	100.0	V	166.0
2632.000000	—	39.15	54.00	14.85	100.0	V	126.0
2632.000000	40.72	—	74.00	33.28	100.0	V	126.0
2671.500000	—	39.88	54.00	14.12	100.0	V	355.0
2671.500000	42.63	—	74.00	31.37	100.0	V	355.0
3036.500000	—	36.88	54.00	17.12	100.0	V	355.0
3036.500000	40.36	—	74.00	33.64	100.0	V	355.0
4251.000000	—	41.65	54.00	12.35	100.0	V	162.0
4251.000000	43.07	—	74.00	30.93	100.0	V	162.0
4356.500000	—	40.73	54.00	13.27	100.0	V	328.0
4356.500000	42.69	—	74.00	31.31	100.0	V	328.0

Battery: VDL 541222
Mode: A
30MHz – 1GHz

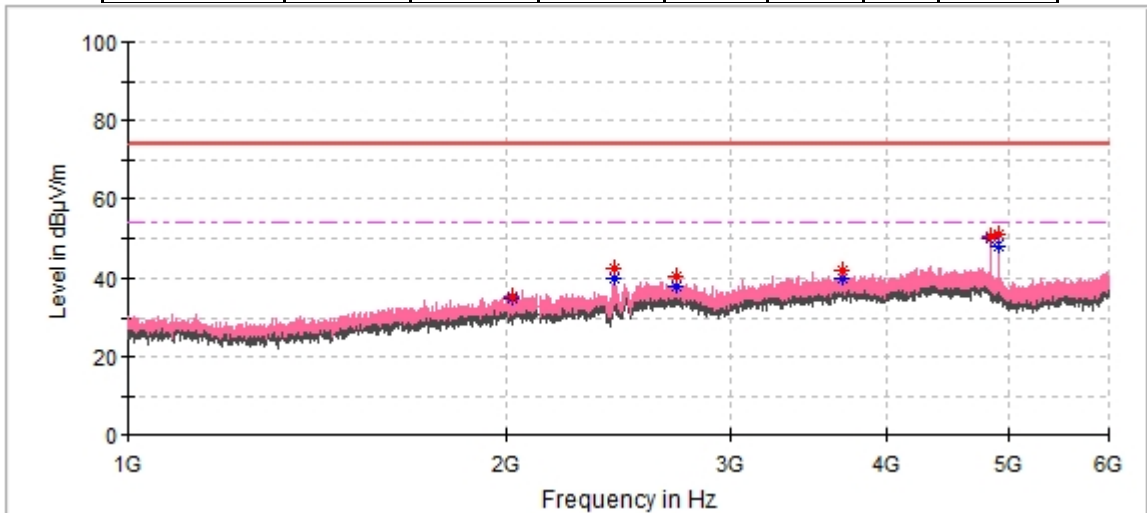


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.431111	19.05	30.00	10.95	100.0	H	98.0	-11.7
31.293333	20.56	30.00	9.44	200.0	V	57.0	-4.9
112.234444	15.77	33.50	17.73	200.0	V	134.0	-10.1
122.150000	15.26	33.50	18.24	200.0	H	206.0	-16.8
262.800000	19.18	36.00	16.82	100.0	V	11.0	-7.3
280.152222	17.13	36.00	18.87	300.0	H	227.0	-15.3
523.029444	22.28	36.00	13.72	200.0	H	74.0	-10.1
531.975000	25.22	36.00	10.78	300.0	V	0.0	-2.9
552.183333	22.72	36.00	13.28	200.0	H	267.0	-8.6
774.043889	27.83	36.00	8.17	300.0	V	9.0	-0.3
836.123889	26.66	36.00	9.34	300.0	H	52.0	-5.1
851.590000	28.14	36.00	7.86	100.0	V	39.0	0.4

1GHz – 6GHz

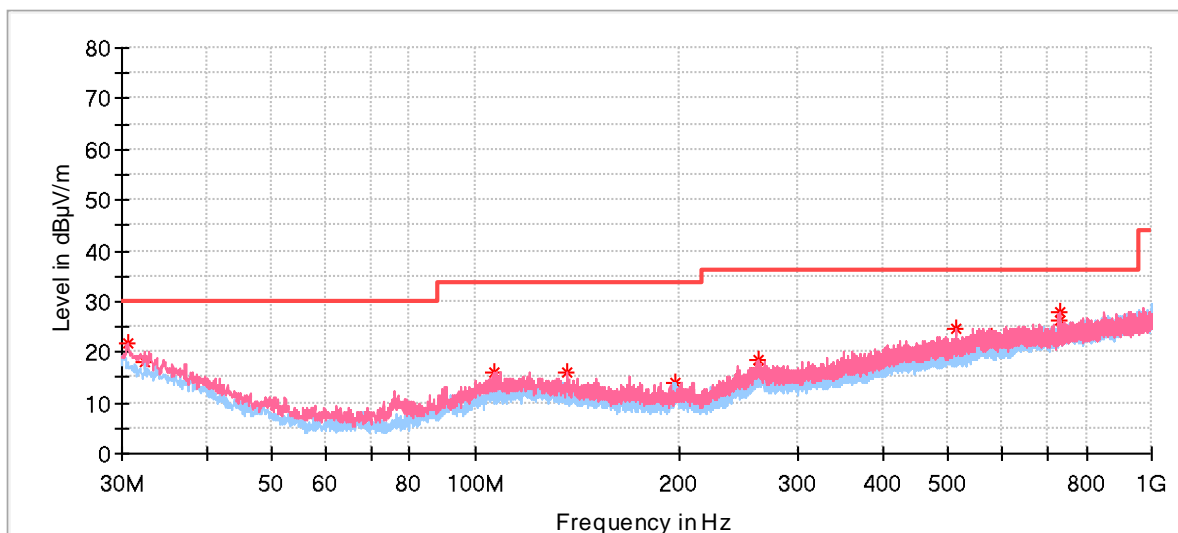


Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
2442.500000	—	39.01	54.00	14.99	100.0	H	119.0
2442.500000	40.03	—	74.00	33.97	100.0	H	119.0
2648.500000	—	38.41	54.00	15.59	100.0	H	34.0
2648.500000	39.65	—	74.00	34.35	100.0	H	34.0
3692.000000	—	40.07	54.00	13.93	100.0	H	48.0
3692.000000	41.27	—	74.00	32.73	100.0	H	48.0
4353.500000	—	41.86	54.00	12.14	100.0	H	292.0
4353.500000	42.49	—	74.00	31.51	100.0	H	292.0
4710.000000	—	40.55	54.00	13.45	100.0	H	258.0
4710.000000	42.95	—	74.00	31.05	100.0	H	258.0
4821.000000	—	53.69	—	—	100.0	H	338.0
4821.000000	54.95	—	74.00	19.05	100.0	H	338.0



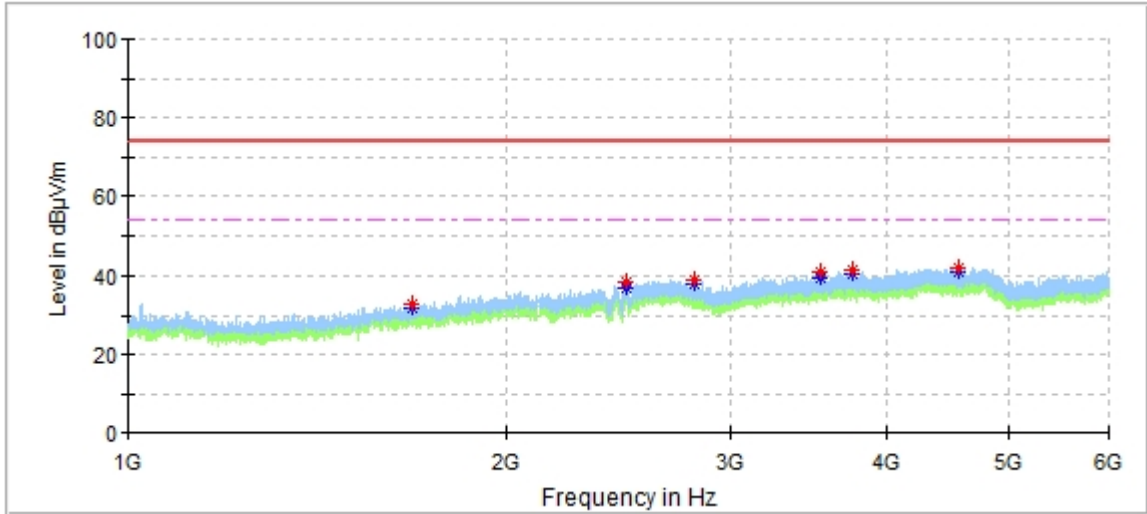
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
2020.500000	35.16	—	74.00	38.84	100.0	V	122.0
2020.500000	—	34.63	54.00	19.37	100.0	V	122.0
2430.000000	—	40.00	54.00	14.00	100.0	V	332.0
2430.500000	42.52	—	74.00	31.48	100.0	V	332.0
2719.000000	40.43	—	74.00	33.57	100.0	V	317.0
2719.000000	—	38.12	54.00	15.88	100.0	V	317.0
3687.000000	—	39.99	54.00	14.01	100.0	V	48.0
3688.000000	41.87	—	74.00	32.13	100.0	V	243.0
4830.500000	50.10	—	74.00	23.90	100.0	V	146.0
4830.500000	—	49.74	54.00	4.26	100.0	V	146.0
4912.000000	50.89	—	74.00	23.11	100.0	V	113.0
4912.500000	—	48.38	54.00	5.62	100.0	V	113.0

Mode: B
30MHz – 1GHz

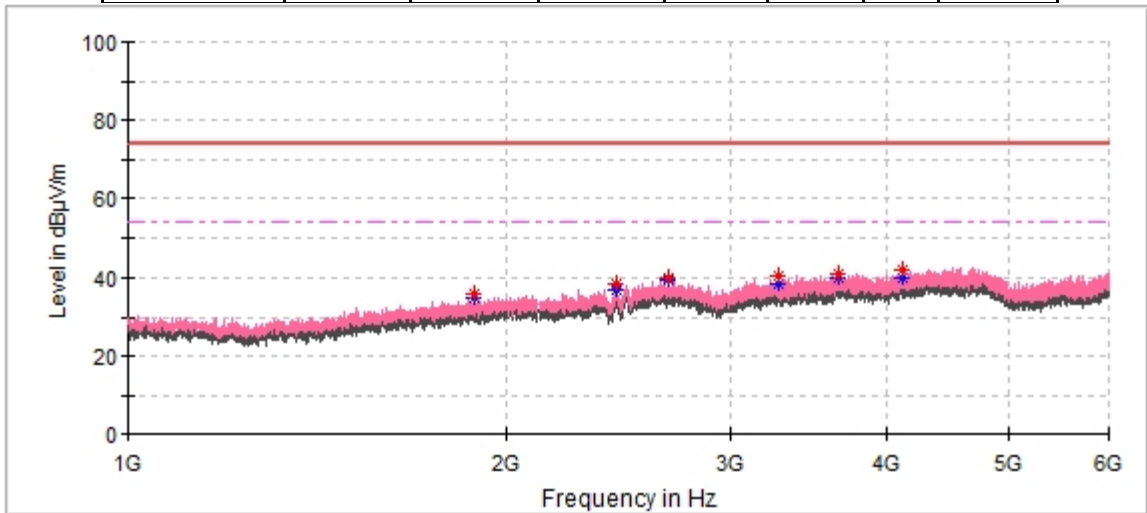


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.538889	21.90	30.00	8.10	100.0	V	163.0	-4.5
32.425000	17.92	30.00	12.08	300.0	H	351.0	-12.9
106.252778	15.96	33.50	17.54	200.0	V	258.0	-10.8
106.576111	13.02	33.50	20.48	100.0	H	224.0	-17.8
136.484444	15.94	33.50	17.56	100.0	V	342.0	-10.6
197.378889	14.06	33.50	19.44	300.0	H	198.0	-19.5
261.237222	18.39	36.00	17.61	100.0	V	215.0	-7.4
261.614444	16.71	36.00	19.29	100.0	H	154.0	-14.1
513.167778	24.69	36.00	11.31	100.0	V	49.0	-3.2
581.013889	22.80	36.00	13.20	300.0	H	323.0	-8.4
729.639444	27.71	36.00	8.29	300.0	V	98.0	-1.1
729.962778	26.10	36.00	9.90	300.0	H	150.0	-6.1

1GHz – 6GHz



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1680.500000	—	31.89	54.00	22.11	100.0	H	341.0
1680.500000	33.07	—	74.00	40.93	100.0	H	341.0
2477.500000	38.65	—	74.00	35.35	100.0	H	228.0
2480.000000	—	37.06	54.00	16.94	100.0	H	87.0
2808.000000	—	37.82	54.00	16.18	100.0	H	0.0
2808.000000	39.17	—	74.00	34.83	100.0	H	0.0
3537.500000	—	39.26	54.00	14.74	100.0	H	264.0
3537.500000	40.99	—	74.00	33.01	100.0	H	264.0
3759.500000	—	40.58	54.00	13.42	100.0	H	164.0
3759.500000	41.40	—	74.00	32.60	100.0	H	164.0
4558.000000	—	40.88	54.00	13.12	100.0	H	146.0
4558.000000	42.29	—	74.00	31.71	100.0	H	146.0



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1885.500000	—	34.90	54.00	19.10	100.0	V	8.0
1885.500000	35.93	—	74.00	38.07	100.0	V	8.0
2438.500000	—	37.11	54.00	16.89	100.0	V	125.0
2438.500000	38.45	—	74.00	35.55	100.0	V	125.0
2679.000000	—	39.32	54.00	14.68	100.0	V	0.0
2679.000000	40.10	—	74.00	33.90	100.0	V	0.0
3276.000000	—	38.37	54.00	15.63	100.0	V	152.0
3276.000000	40.43	—	74.00	33.57	100.0	V	152.0
3663.000000	—	39.99	54.00	14.01	100.0	V	289.0
3663.000000	41.00	—	74.00	33.00	100.0	V	289.0
4117.000000	—	39.95	54.00	14.05	100.0	V	212.0
4117.000000	41.97	—	74.00	32.03	100.0	V	212.0