

附錄 一

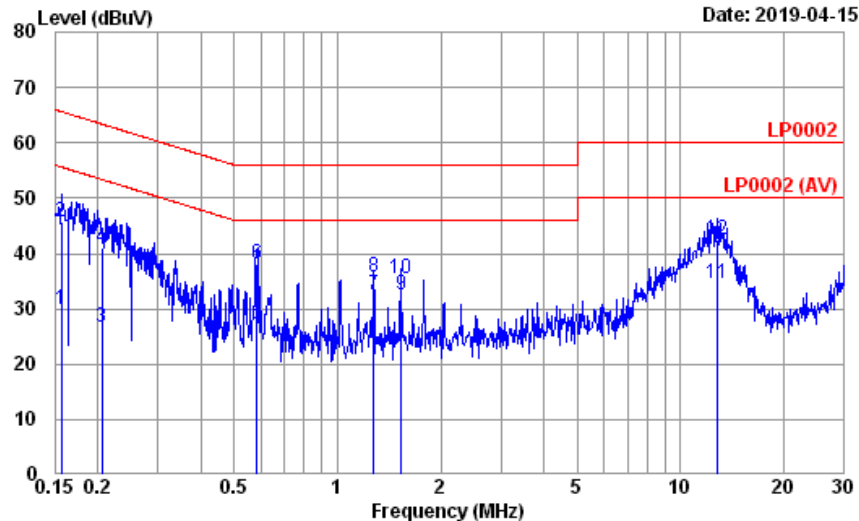
受測裝置之測試結果

目錄	頁次
1. 電源線傳導干擾之量測.....	2
2. 場強輻射之量測.....	8
2.1. 量測 Frequency 範圍: 9kHz-30MHz	8
2.2. 量測 Frequency 範圍: 30MHz-1000MHz.....	17
2.3. 頻寬量測.....	23

1. 電源線傳導干擾之量測

測試日期	2019/04/15	環境溫/濕度	22°C/52%
測試電壓	AC 110V, 60Hz (經電源供應器)		
測試模式	5W 無線充電模式		

Data: 25 File: D:\test data\REPORT\2019\C1M1903XXX\C1M1903255-C-D-RF.EM6 (29)



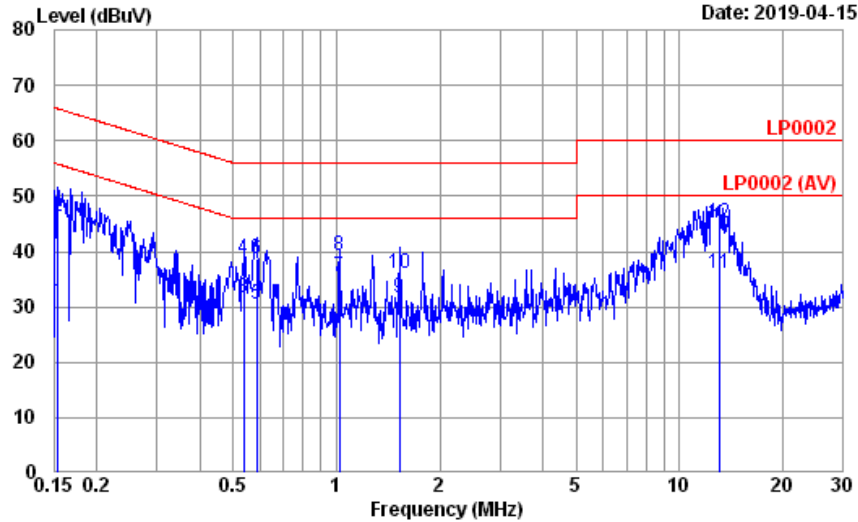
Site no. : No.8 Shielded Room Data no. : 25
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : LP0002
Env. / Ins. : 22°C / 52% ESR3 (1774) Engineer : Xar Zhuo
EUT : APS-WP30
Power Rating : 110Vac/60Hz
Test Mode : Operating
5W

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.156	10.69	0.03	9.86	9.17	29.75	55.65	25.90	Average
2	0.156	10.69	0.03	9.86	25.06	45.64	65.65	20.01	QP
3	0.206	10.61	0.03	9.86	6.06	26.56	53.36	26.80	Average
4	0.206	10.61	0.03	9.86	20.66	41.16	63.36	22.20	QP
5	0.582	10.48	0.05	9.86	6.85	27.24	46.00	18.76	Average
6	0.582	10.48	0.05	9.86	17.67	38.06	56.00	17.94	QP
7	1.276	10.48	0.06	9.86	12.26	32.66	46.00	13.34	Average
8	1.276	10.48	0.06	9.86	15.30	35.70	56.00	20.30	QP
9	1.531	10.49	0.06	9.86	12.04	32.45	46.00	13.55	Average
10	1.531	10.49	0.06	9.86	14.95	35.36	56.00	20.64	QP
11	12.784	12.14	0.22	9.91	12.42	34.69	50.00	15.31	Average
12	12.784	12.14	0.22	9.91	20.10	42.37	60.00	17.63	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

測試日期	2019/04/15	環境溫/濕度	22°C/52%
測試電壓	AC 110V, 60Hz (經電源供應器)		
測試模式	5W 無線充電模式		

Data: 24 File: D:\test data\REPORT\2019\C1M1903XXX\C1M1903255-C-D-RF-EM6 (29)



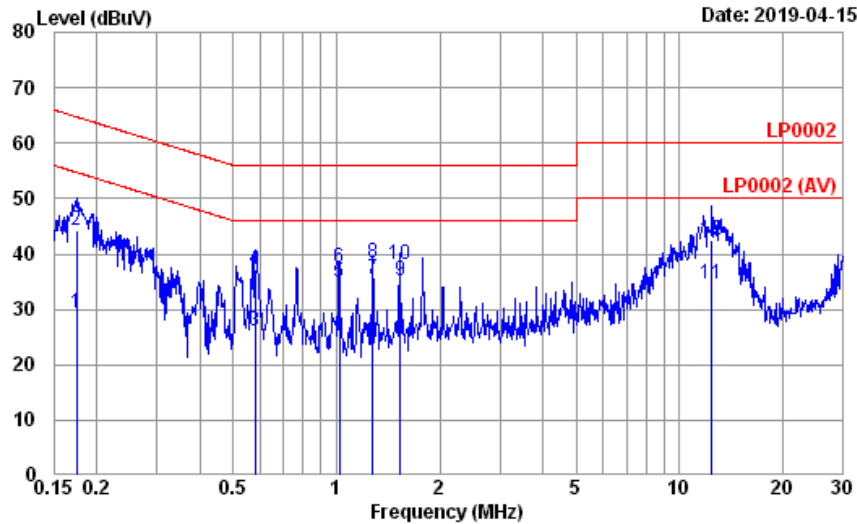
Site no. : No.8 Shielded Room Data no. : 24
 Condition : ENV4200 100169 LISN Phase : LINE
 Limit : LP0002
 Env. / Ins. : 22°C / 52% ESR3 (1774) Engineer : Xar Zhuo
 EUT : APS-WP30
 Power Rating : 110Vac/60Hz
 Test Mode : Operating
 5W

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.154	10.61	0.03	9.86	10.29	30.79	55.78	24.99	Average
2	0.154	10.61	0.03	9.86	25.70	46.20	65.78	19.58	QP
3	0.538	10.44	0.05	9.86	11.38	31.73	46.00	14.27	Average
4	0.538	10.44	0.05	9.86	18.23	38.58	56.00	17.42	QP
5	0.585	10.44	0.05	9.86	10.20	30.55	46.00	15.45	Average
6	0.585	10.44	0.05	9.86	18.29	38.64	56.00	17.36	QP
7	1.021	10.42	0.06	9.86	15.06	35.40	46.00	10.60	Average
8	1.021	10.42	0.06	9.86	18.92	39.26	56.00	16.74	QP
9	1.527	10.44	0.06	9.86	11.33	31.69	46.00	14.31	Average
10	1.527	10.44	0.06	9.86	15.69	36.05	56.00	19.95	QP
11	13.127	11.92	0.22	9.91	14.10	36.15	50.00	13.85	Average
12	13.127	11.92	0.22	9.91	23.16	45.21	60.00	14.79	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

測試日期	2019/04/15	環境溫/濕度	22°C/52%
測試電壓	AC 110V, 60Hz (經電源供應器)		
測試模式	10W 無線充電模式		

Data: 27 File: D:\test data\REPORT\2019\C1M1903XXX\C1M1903255-C-D-RF.EM6 (29)



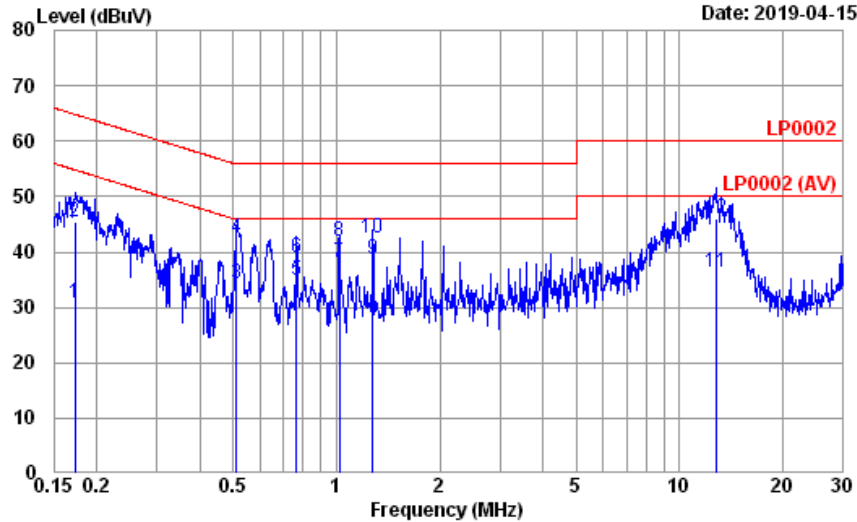
Site no. : No.8 Shielded Room Data no. : 27
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : LP0002
Env. / Ins. : 22°C / 52% ESR3 (1774) Engineer : Xar Zhuo
EUT : APS-WP30
Power Rating : 110Vac/60Hz
Test Mode : Operating
10W

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.175	10.66	0.03	9.86	8.76	29.31	54.72	25.41	Average
2	0.175	10.66	0.03	9.86	23.63	44.18	64.72	20.54	QP
3	0.579	10.48	0.05	9.86	5.69	26.08	46.00	19.92	Average
4	0.579	10.48	0.05	9.86	16.71	37.10	56.00	18.90	QP
5	1.021	10.47	0.06	9.86	14.38	34.77	46.00	11.23	Average
6	1.021	10.47	0.06	9.86	17.07	37.46	56.00	18.54	QP
7	1.276	10.48	0.06	9.86	15.17	35.57	46.00	10.43	Average
8	1.276	10.48	0.06	9.86	17.99	38.39	56.00	17.61	QP
9	1.531	10.49	0.06	9.86	14.79	35.20	46.00	10.80	Average
10	1.531	10.49	0.06	9.86	17.54	37.95	56.00	18.05	QP
11	12.384	12.04	0.21	9.91	12.30	34.46	50.00	15.54	Average
12	12.384	12.04	0.21	9.91	20.40	42.56	60.00	17.44	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

測試日期	2019/04/15	環境溫/濕度	22°C/52%
測試電壓	AC 110V, 60Hz (經電源供應器)		
測試模式	10W 無線充電模式		

Data: 26 File: D:\test data\REPORT\2019\C1M1903XXX\C1M1903255-C-D-RF.EM6 (29)



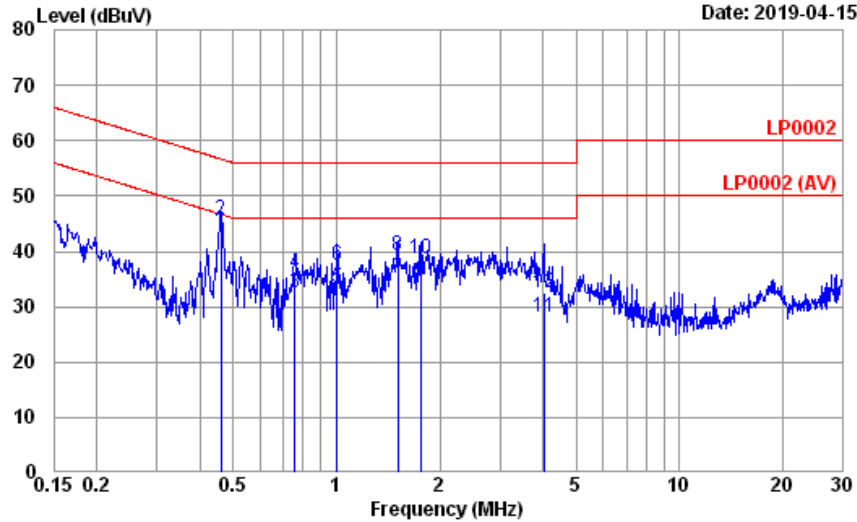
Site no. : No.8 Shielded Room Data no. : 26
Condition : ENV4200 100169 LISN Phase : LINE
Limit : LP0002
Env. / Ins. : 22°C / 52% ESR3 (1774) Engineer : Xar Zhuo
EUT : APS-WP30
Power Rating : 110Vac/60Hz
Test Mode : Operating
10W

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.173	10.58	0.03	9.86	10.22	30.69	54.81	24.12	Average
2	0.173	10.58	0.03	9.86	25.03	45.50	64.81	19.31	QP
3	0.512	10.44	0.05	9.86	13.89	34.24	46.00	11.76	Average
4	0.512	10.44	0.05	9.86	22.16	42.51	56.00	13.49	QP
5	0.763	10.43	0.05	9.86	14.63	34.97	46.00	11.03	Average
6	0.763	10.43	0.05	9.86	18.59	38.93	56.00	17.07	QP
7	1.021	10.42	0.06	9.86	17.71	38.05	46.00	7.95	Average
8	1.021	10.42	0.06	9.86	21.51	41.85	56.00	14.15	QP
9	1.275	10.43	0.06	9.86	18.35	38.70	46.00	7.30	Average
10	1.275	10.43	0.06	9.86	22.15	42.50	56.00	13.50	QP
11	12.792	11.85	0.22	9.91	14.26	36.24	50.00	13.76	Average
12	12.792	11.85	0.22	9.91	24.05	46.03	60.00	13.97	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

測試日期	2019/04/15	環境溫/濕度	22°C/52%
測試電壓	AC 110V, 60Hz (經電源供應器)		
測試模式	15W 無線充電模式		

Data: 29 File: D:\test data\REPORT\2019\C1M1903XXX\C1M1903255-C-D-RF-EM6 (29)



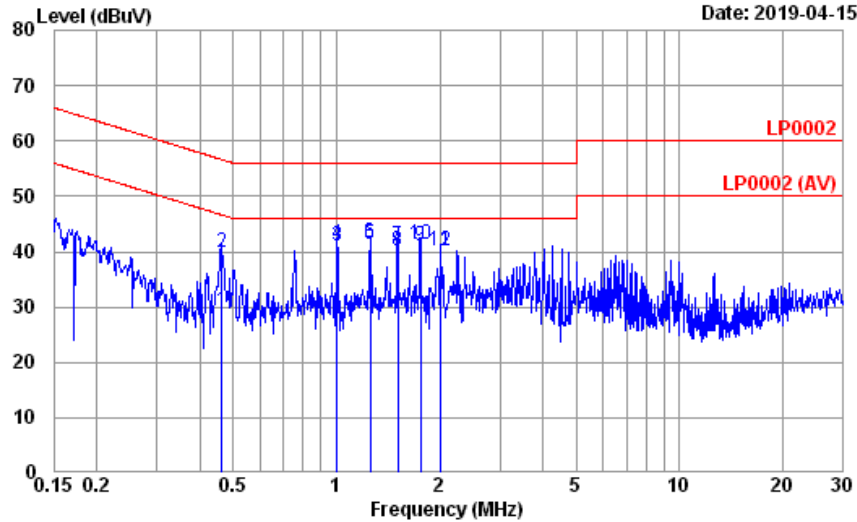
Site no. : No.8 Shielded Room Data no. : 29
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : LP0002
Env. / Ins. : 22°C / 52% ESR3 (1774) Engineer : Xar Zhuo
EUT : APS-WP30
Power Rating : 110Vac/60Hz
Test Mode : Operating
15W

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.462	10.49	0.04	9.86	23.15	43.54	46.66	3.12	Average
2	0.462	10.49	0.04	9.86	25.24	45.63	56.66	11.03	QP
3	0.755	10.48	0.05	9.86	12.06	32.45	46.00	13.55	Average
4	0.755	10.48	0.05	9.86	15.73	36.12	56.00	19.88	QP
5	1.005	10.47	0.06	9.86	12.97	33.36	46.00	12.64	Average
6	1.005	10.47	0.06	9.86	17.02	37.41	56.00	18.59	QP
7	1.511	10.49	0.06	9.86	14.79	35.20	46.00	10.80	Average
8	1.511	10.49	0.06	9.86	18.96	39.37	56.00	16.63	QP
9	1.762	10.50	0.07	9.86	14.08	34.51	46.00	11.49	Average
10	1.762	10.50	0.07	9.86	18.24	38.67	56.00	17.33	QP
11	4.027	10.65	0.11	9.87	7.60	28.23	46.00	17.77	Average
12	4.027	10.65	0.11	9.87	12.01	32.64	56.00	23.36	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

測試日期	2019/04/15	環境溫/濕度	22°C/52%
測試電壓	AC 110V, 60Hz (經電源供應器)		
測試模式	15W 無線充電模式		

Data: 28 File: D:\test data\REPORT\2019\C1M1903XXX\C1M1903255-C-D-RF.EM6 (29)



Site no. : No.8 Shielded Room Data no. : 28
Condition : ENV4200 100169 LISN Phase : LINE
Limit : LP0002
Env. / Ins. : 22°C / 52% ESR3 (1774) Engineer : Xar Zhuo
EUT : APS-WP30
Power Rating : 110Vac/60Hz
Test Mode : Operating
15W

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.464	10.45	0.04	9.86	9.09	29.44	46.63	17.19	Average
2	0.464	10.45	0.04	9.86	19.61	39.96	56.63	16.67	QP
3	1.005	10.42	0.06	9.86	20.71	41.05	46.00	4.95	Average
4	1.005	10.42	0.06	9.86	20.86	41.20	56.00	14.80	QP
5	1.255	10.43	0.06	9.86	20.92	41.27	46.00	4.73	Average
6	1.255	10.43	0.06	9.86	21.26	41.61	56.00	14.39	QP
7	1.511	10.44	0.06	9.86	20.57	40.93	46.00	5.07	Average
8	1.511	10.44	0.06	9.86	19.74	40.10	56.00	15.90	QP
9	1.762	10.44	0.07	9.86	20.55	40.92	46.00	5.08	Average
10	1.762	10.44	0.07	9.86	21.00	41.37	56.00	14.63	QP
11	2.012	10.45	0.08	9.86	19.62	40.01	46.00	5.99	Average
12	2.012	10.45	0.08	9.86	19.90	40.29	56.00	15.71	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

2. 場強輻射之量測

2.1. 量測 Frequency 範圍: 9kHz-30MHz

測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	5W 無線充電模式	測試頻率	TX 127.4 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		

天線極性 0°

Emission Frequency (kHz)	Emission Level @3m (dBμV/m)	Limits@3m (Average) (dBμV/m)	Margin (dB)	Detector
127.400	89.00	105.50	16.50	Peak
382.200	65.80	95.96	30.16	Peak
637.000	51.20	71.52	20.32	QP
891.800	45.30	68.60	23.30	QP

天線極性 90°

Emission Frequency (kHz)	Emission Level @3m (dBμV/m)	Limits@3m (Average) (dBμV/m)	Margin (dB)	Detector
127.400	89.90	105.50	15.60	Peak
382.200	62.50	95.96	33.46	Peak
637.000	52.70	71.52	18.82	QP
891.800	47.30	68.60	21.30	QP

註: 1.低於限制值 20dB 以上的讀值是不列入上表中。

2.因 Peak 值低於 Average limit 所以不另行讀 Average。

測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	10W 無線充電模式	測試頻率	TX 127.44 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		

天線極性 0°

Emission Frequency (kHz)	Emission Level @3m (dBμV/m)	Limits@3m (Average) (dBμV/m)	Margin (dB)	Detector
127.400	94.10	105.50	11.40	Peak
382.200	70.00	95.96	25.96	Peak
637.000	58.50	71.52	13.02	QP
891.800	50.30	68.60	18.30	QP

天線極性 90°

Emission Frequency (kHz)	Emission Level @3m (dBμV/m)	Limits@3m (Average) (dBμV/m)	Margin (dB)	Detector
127.400	90.40	105.50	15.10	Peak
382.200	64.80	95.96	31.16	Peak
637.000	55.70	71.52	15.82	QP
891.800	49.10	68.60	19.50	QP

註: 1.低於限制值 20dB 以上的讀值是不列入上表中。

2.因 Peak 值低於 Average limit 所以不另行讀 Average。

測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	15W 無線充電模式	測試頻率	TX 127.3 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		

天線極性 0°

Emission Frequency (kHz)	Emission Level @3m (dBμV/m)	Limits@3m (Average) (dBμV/m)	Margin (dB)	Detector
127.300	101.70	105.51	3.81	Peak
381.900	78.10	95.97	17.87	Peak
636.500	66.80	71.53	4.73	QP
891.100	59.10	68.61	9.51	QP

天線極性 90°

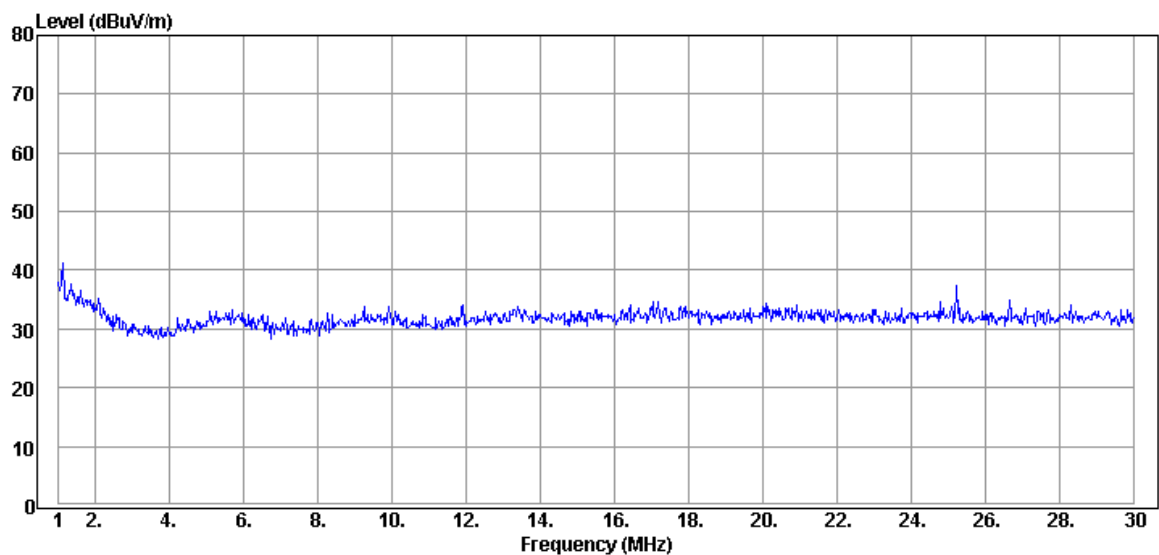
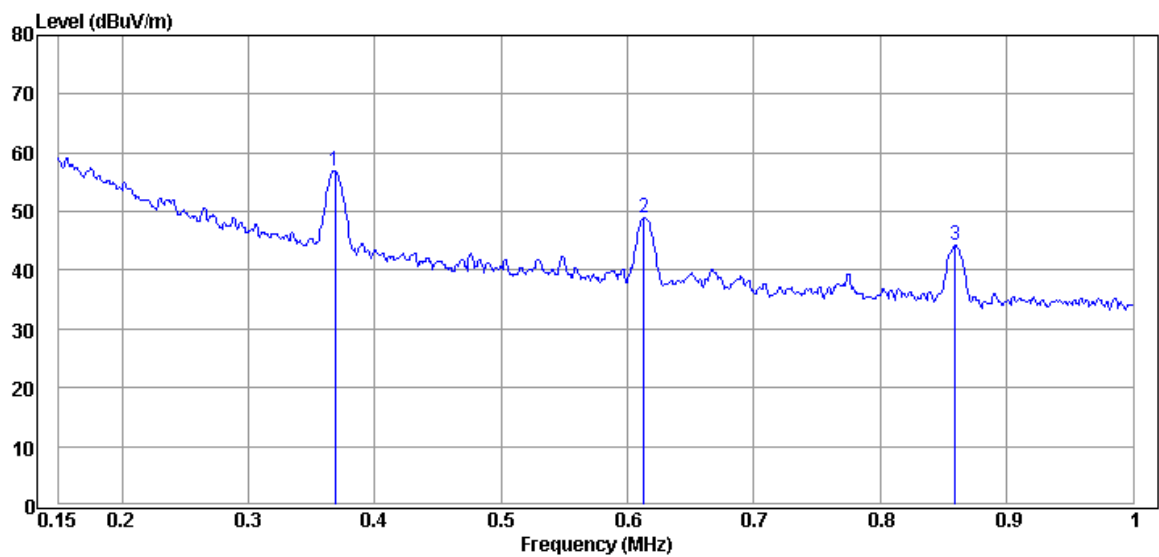
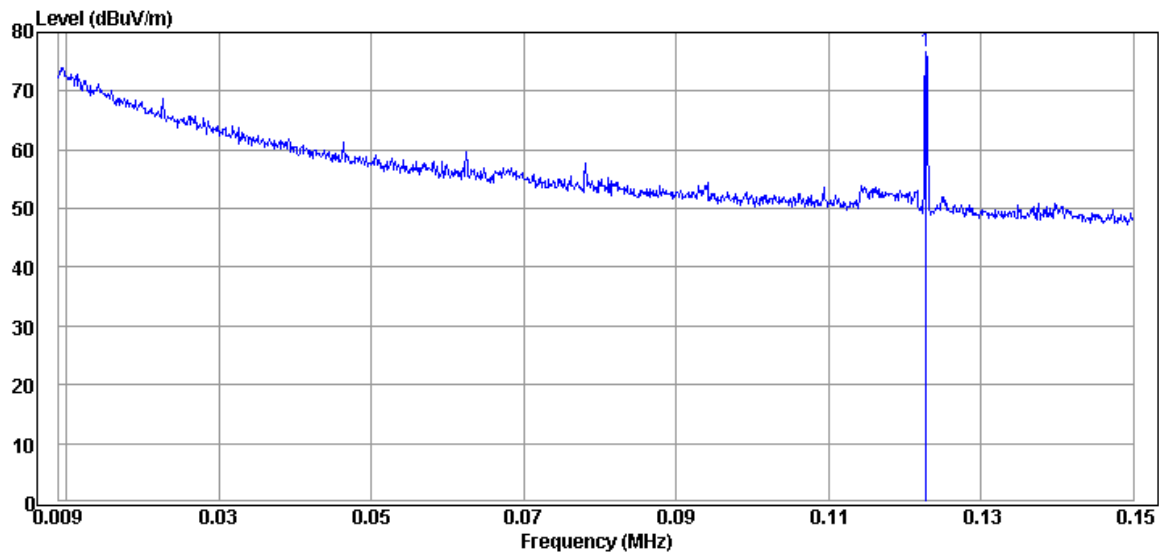
Emission Frequency (kHz)	Emission Level @3m (dBμV/m)	Limits@3m (Average) (dBμV/m)	Margin (dB)	Detector
127.300	97.70	105.51	7.81	Peak
381.900	72.10	95.97	23.87	Peak
636.500	62.80	71.53	8.73	QP
891.100	55.70	68.61	12.91	QP

註: 1.低於限制值 20dB 以上的讀值是不列入上表中。

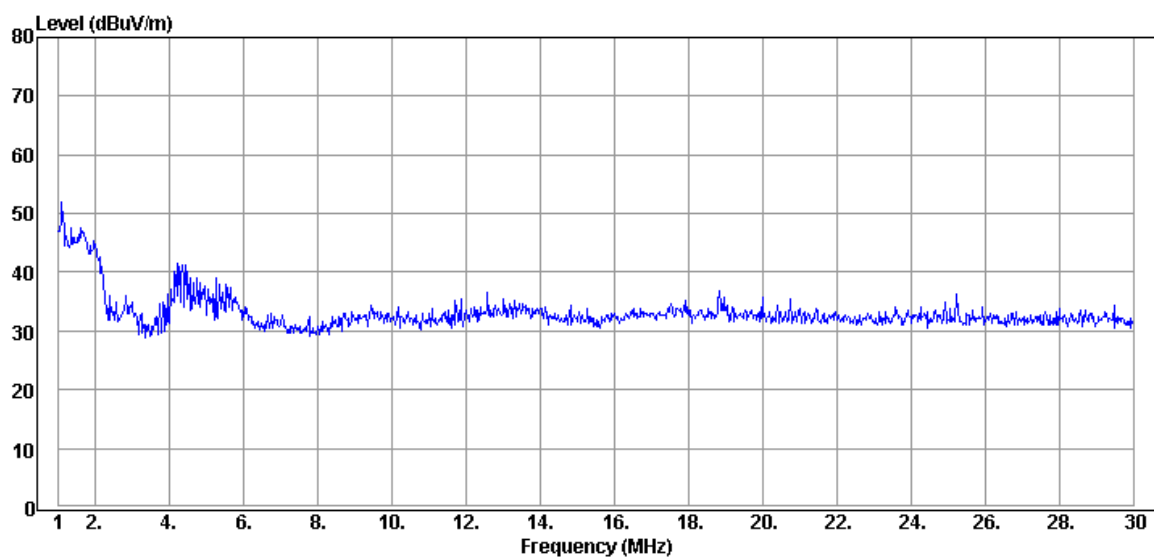
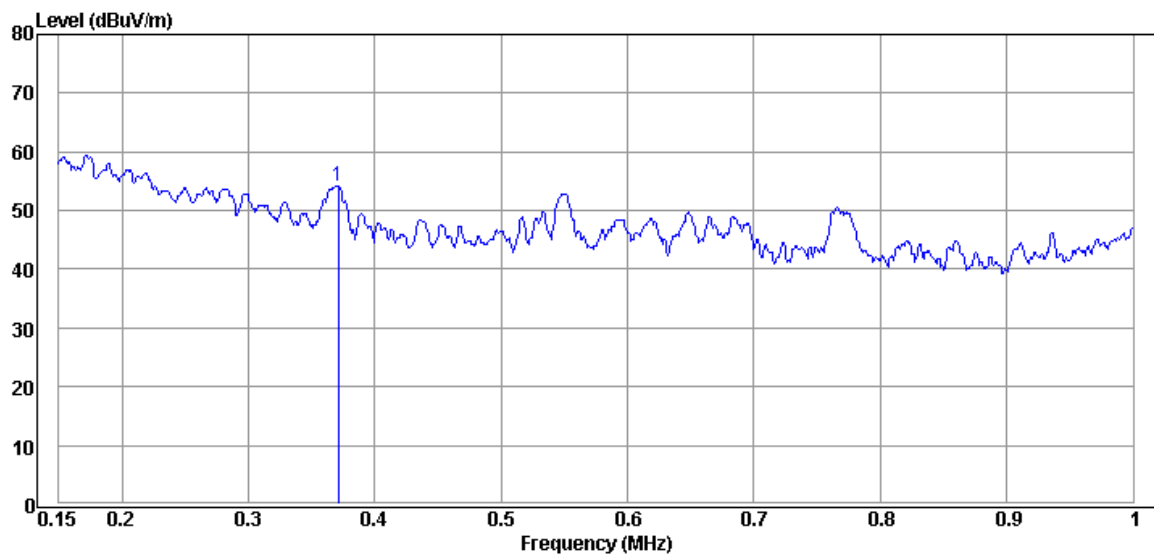
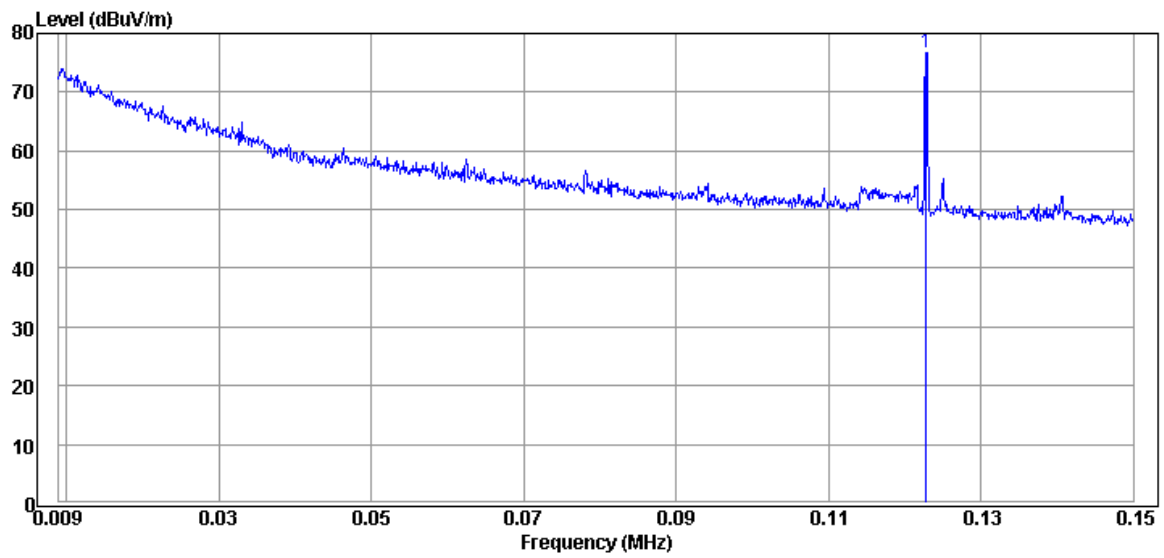
2.因 Peak 值低於 Average limit 所以不另行讀 Average。

• 量測之波形圖(9kHz-30MHz)

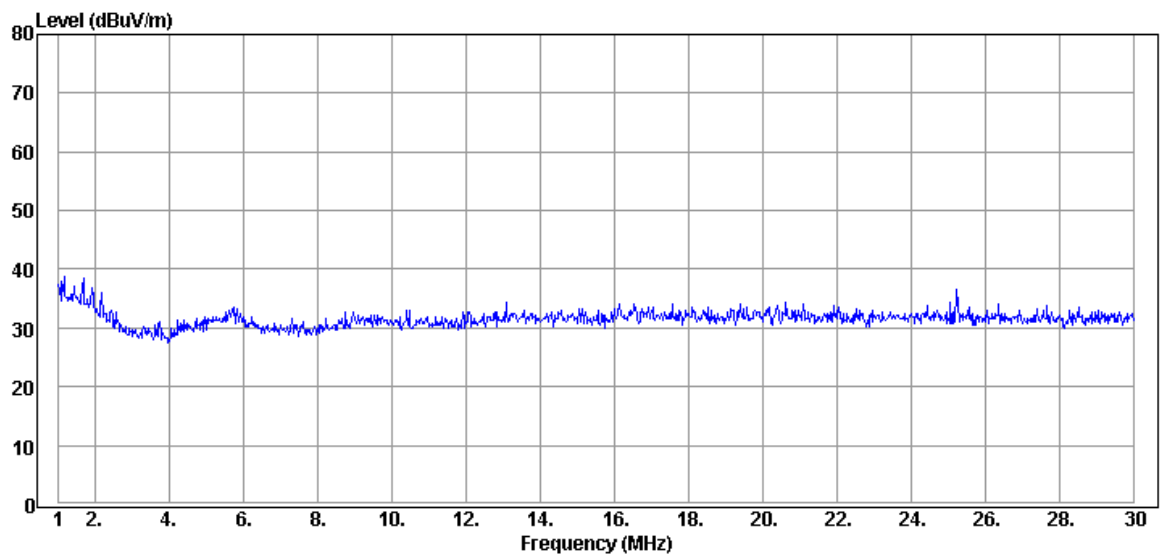
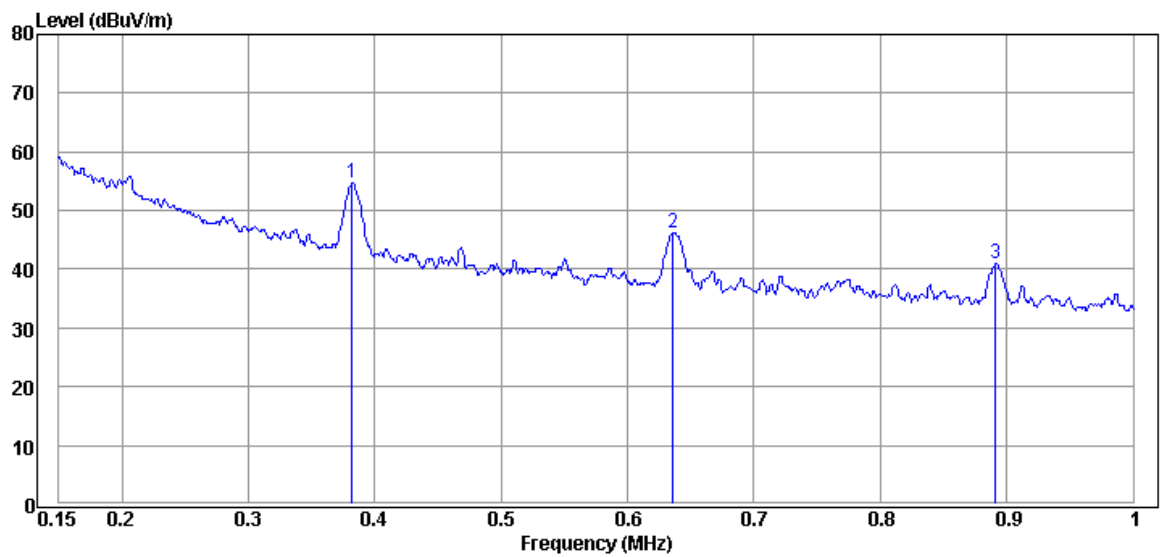
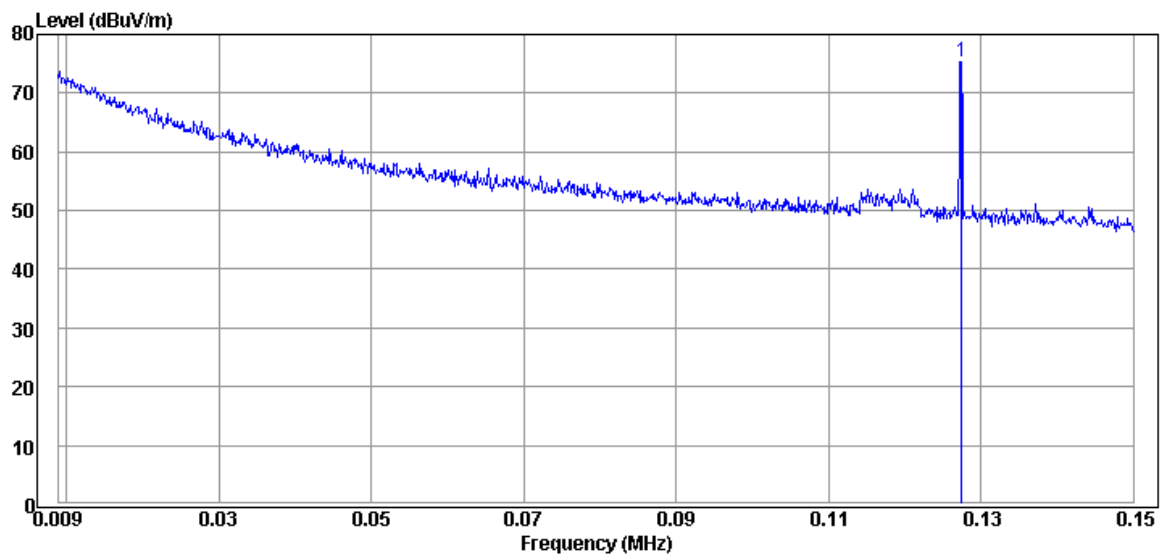
天線極性	0°
測試模式	5W 無線充電模式



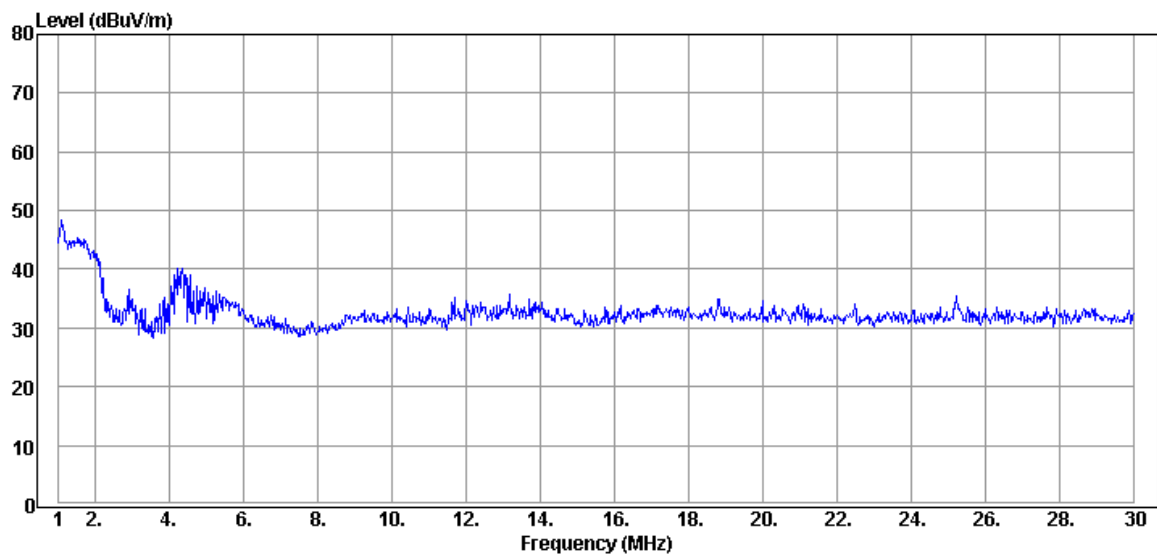
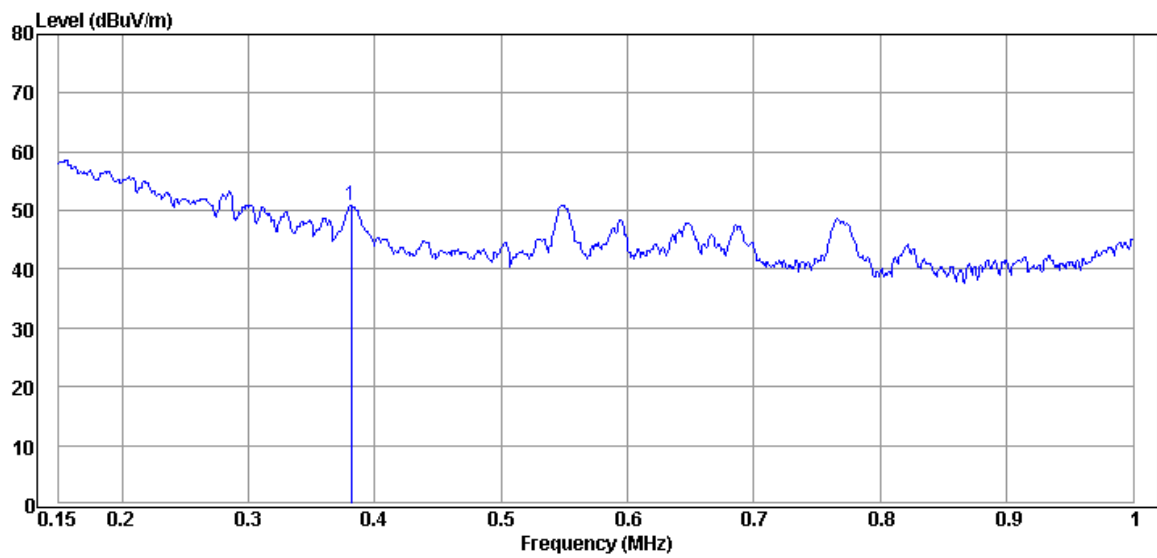
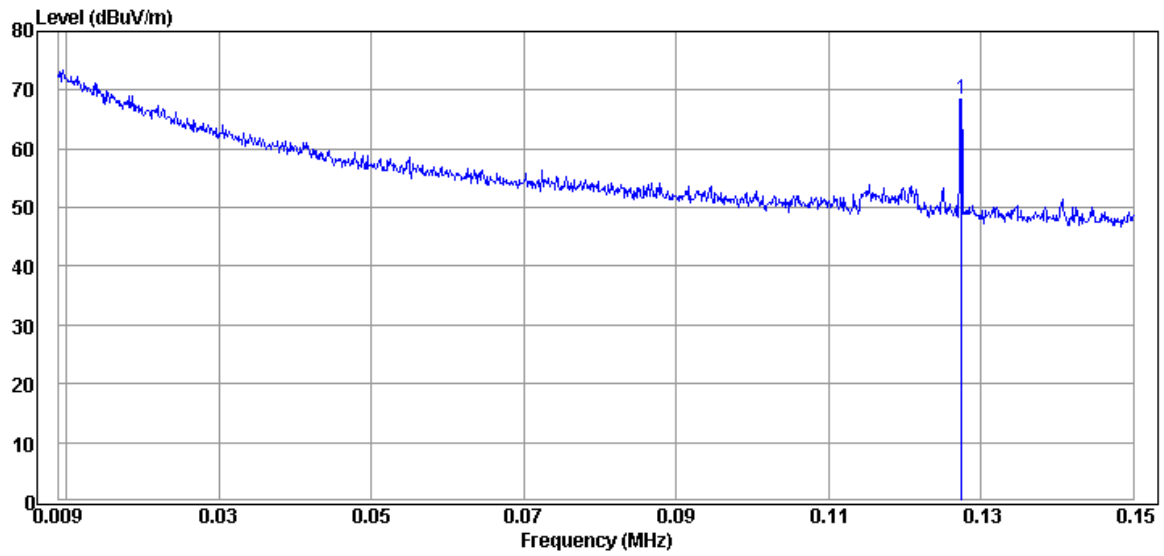
天線極性	90°
測試模式	5W 無線充電模式



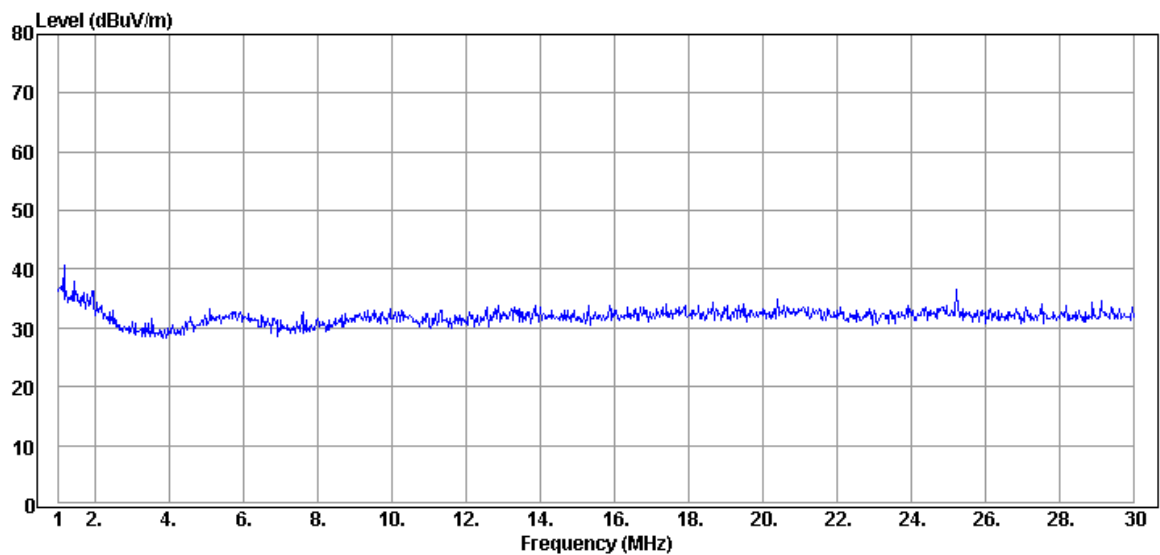
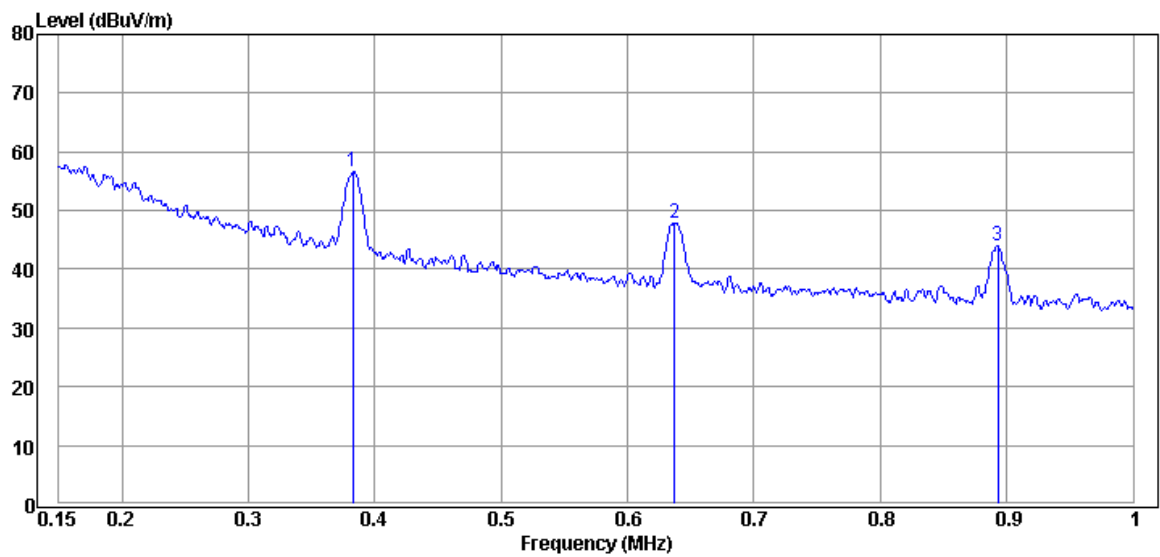
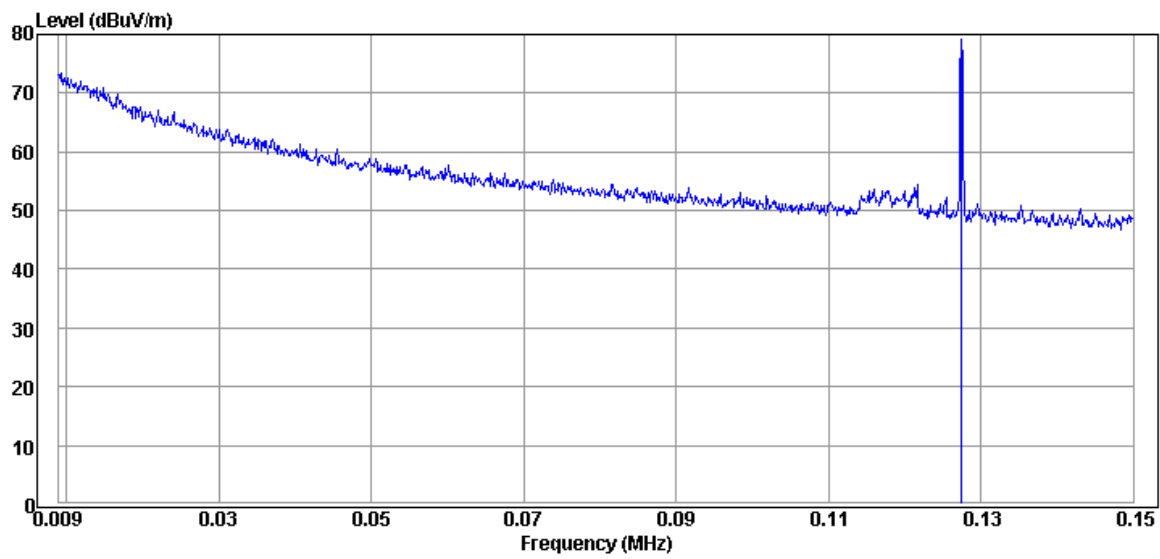
天線極性	0°
測試模式	10W 無線充電模式



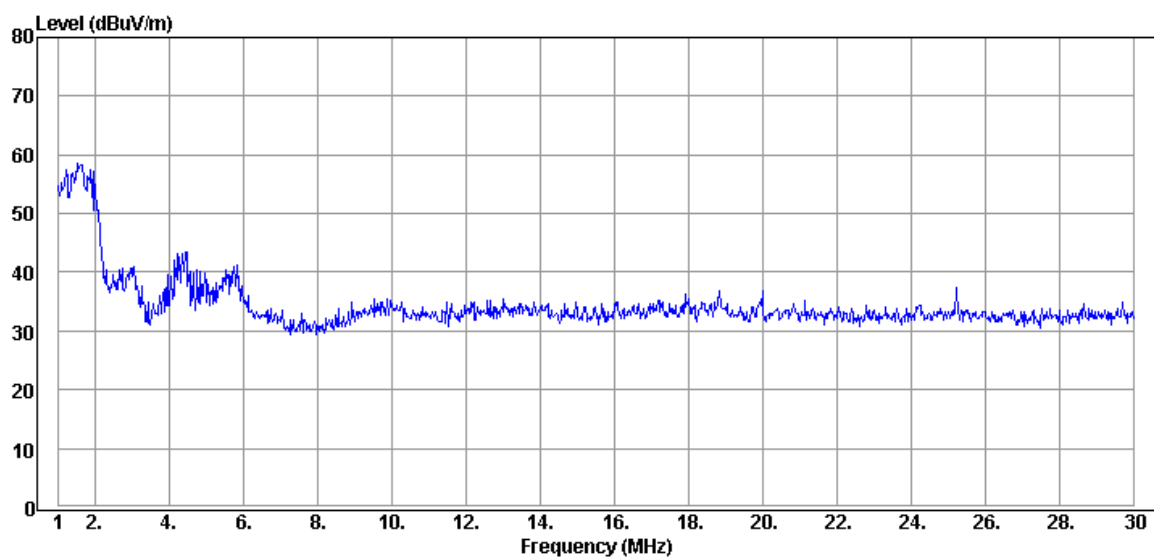
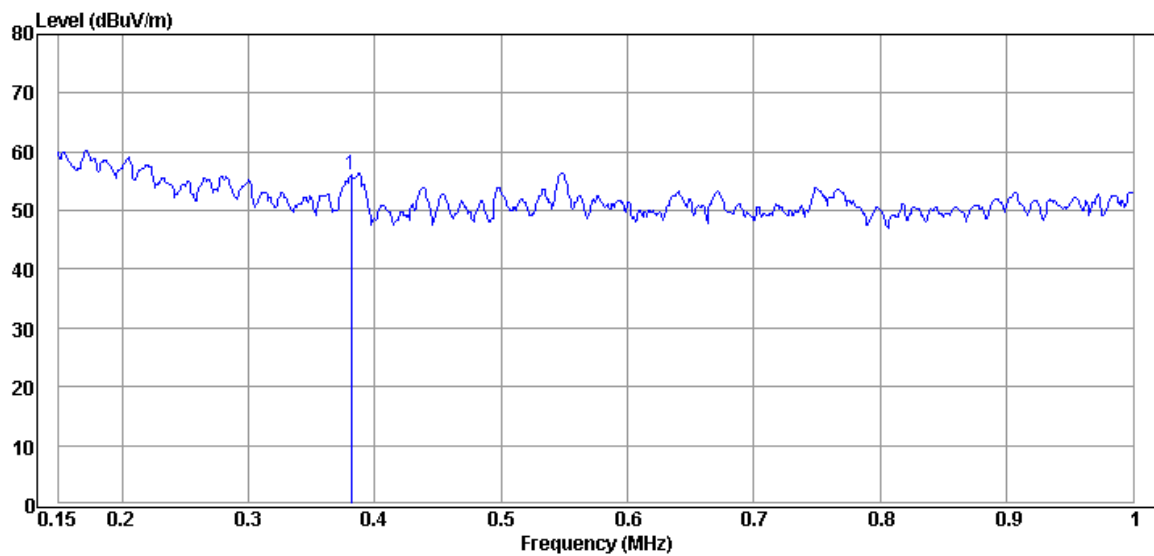
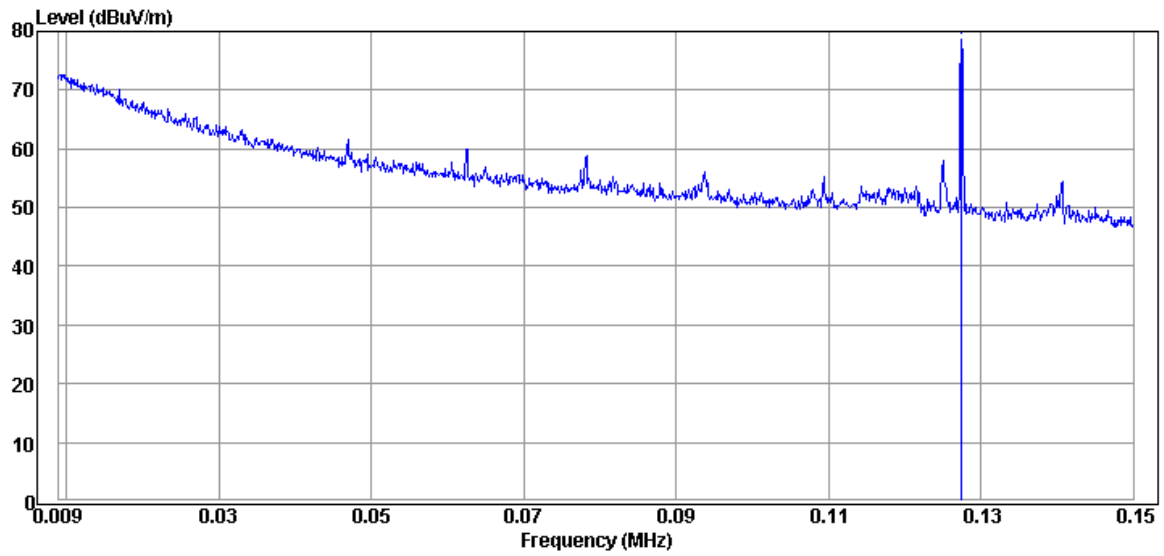
天線極性	90°
測試模式	10W 無線充電模式



天線極性	0°
測試模式	15W 無線充電模式

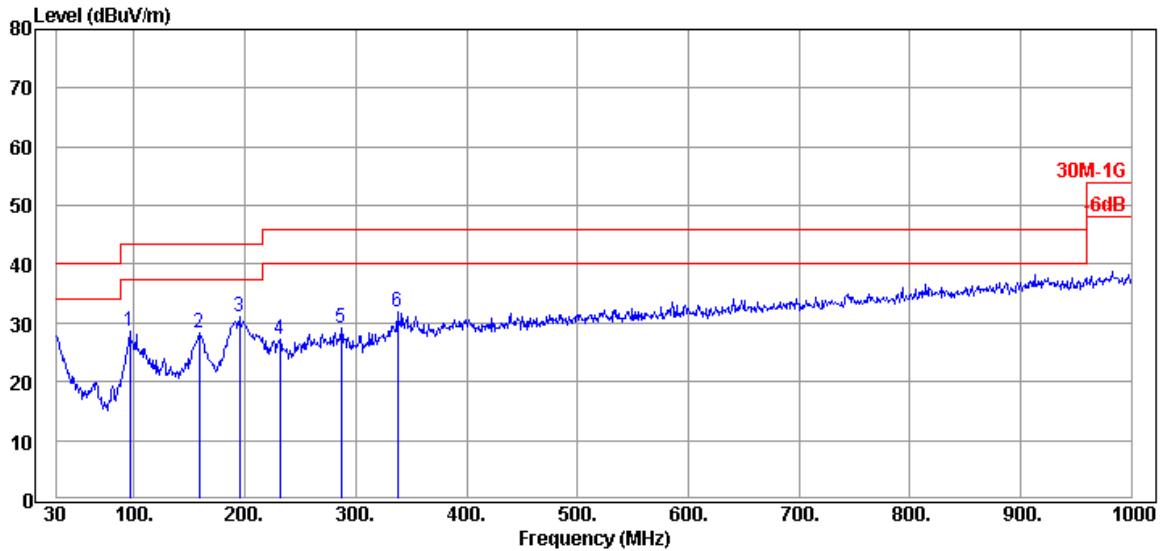


天線極性	90°
測試模式	15W 無線充電模式



2.2. 量測 Frequency 範圍: 30MHz-1000MHz

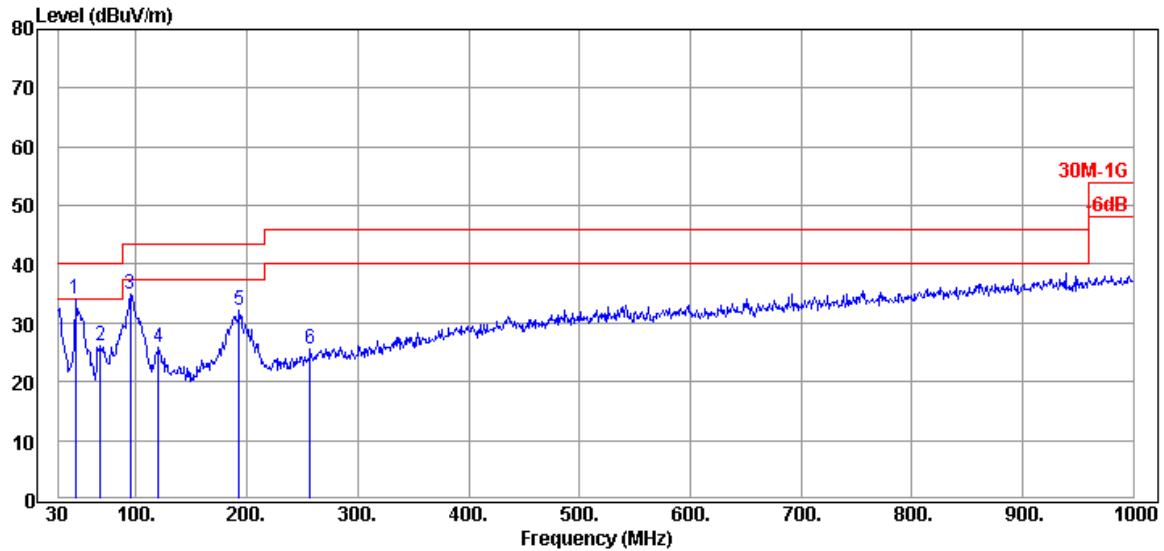
測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	5W 無線充電模式	測試頻率	TX 127.4 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
95.96	16.65	2.24	9.65	28.54	43.50	14.96	Peak
159.01	16.53	3.00	8.71	28.24	43.50	15.26	Peak
194.90	16.07	3.37	11.67	31.11	43.50	12.39	Peak
231.76	17.94	3.76	5.62	27.32	46.00	18.68	Peak
287.05	19.49	4.31	5.27	29.07	46.00	16.93	Peak
337.49	20.79	5.02	6.11	31.92	46.00	14.08	Peak

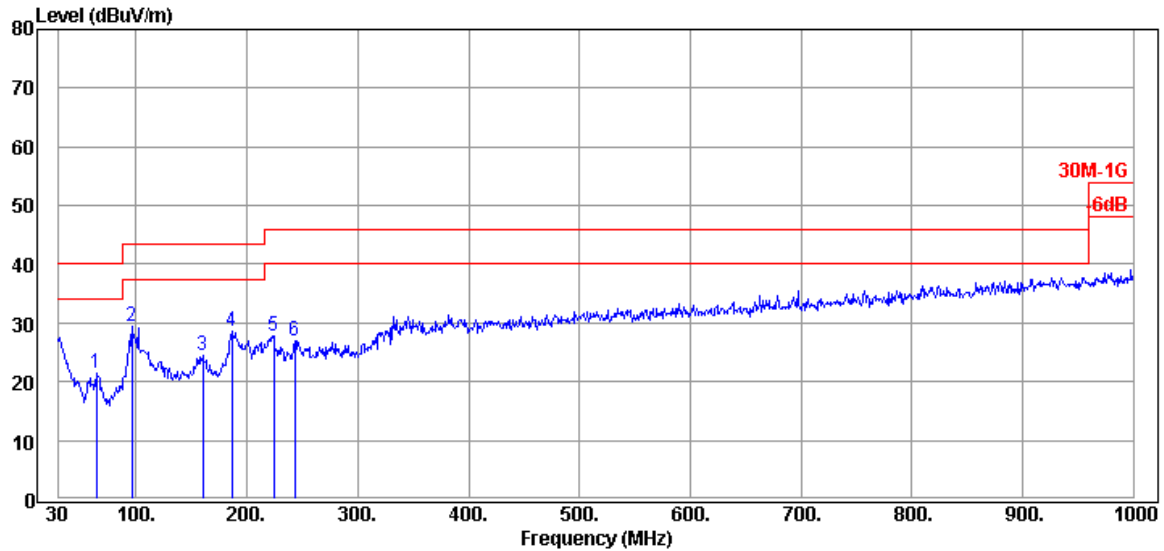
測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	5W 無線充電模式	測試頻率	TX 127.4 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
45.52	16.80	1.49	15.86	34.15	40.00	5.85	Peak
67.83	12.48	1.85	11.90	26.23	40.00	13.77	Peak
94.99	16.45	2.23	16.28	34.96	43.50	8.54	Peak
120.21	18.63	2.53	4.55	25.71	43.50	17.79	Peak
192.96	15.98	3.36	12.84	32.18	43.50	11.32	Peak
256.98	18.96	4.01	2.47	25.44	46.00	20.56	Peak

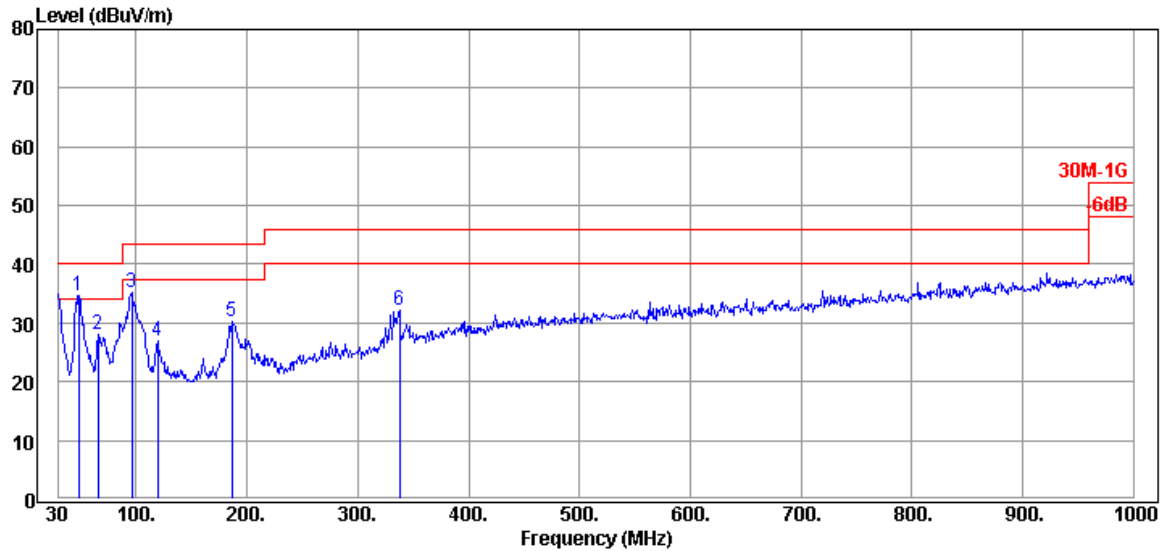
測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	10W 無線充電模式	測試頻率	TX 127.44 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
63.95	12.47	1.79	7.05	21.31	40.00	18.69	Peak
95.96	16.65	2.24	10.47	29.36	43.50	14.14	Peak
159.98	16.50	3.01	4.90	24.41	43.50	19.09	Peak
186.17	15.69	3.29	9.67	28.65	43.50	14.85	Peak
224.00	17.55	3.68	6.64	27.87	46.00	18.13	Peak
243.40	18.50	3.88	4.54	26.92	46.00	19.08	Peak

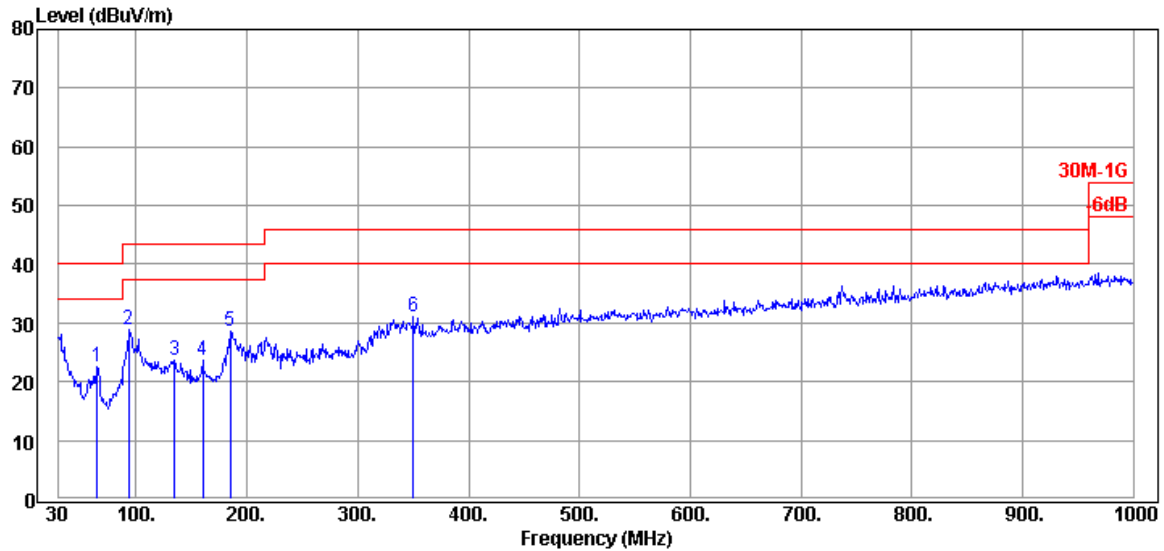
測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	10W 無線充電模式	測試頻率	TX 127.44 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
48.43	15.45	1.54	17.75	34.74	40.00	5.26	Peak
65.89	12.48	1.82	13.86	28.16	40.00	11.84	Peak
95.96	16.65	2.24	16.40	35.29	43.50	8.21	Peak
119.24	18.63	2.52	5.90	27.05	43.50	16.45	Peak
186.17	15.69	3.29	11.20	30.18	43.50	13.32	Peak
337.49	20.79	5.02	6.49	32.30	46.00	13.70	Peak

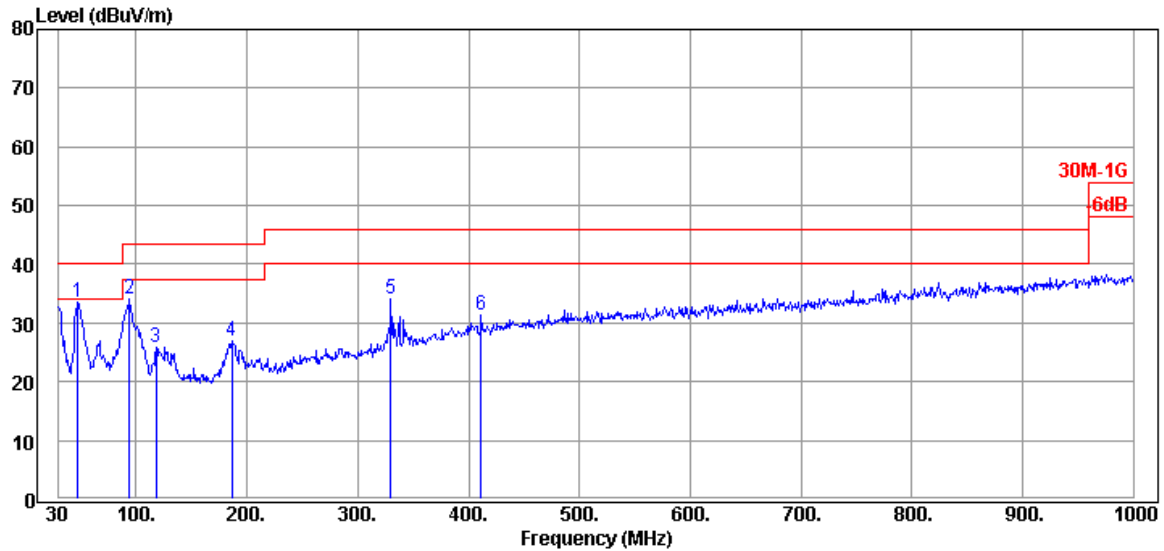
測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	15W 無線充電模式	測試頻率	TX 127.3 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
64.92	12.48	1.81	8.18	22.47	40.00	17.53	Peak
93.05	16.05	2.20	10.67	28.92	43.50	14.58	Peak
134.76	17.85	2.71	3.12	23.68	43.50	19.82	Peak
159.98	16.50	3.01	4.05	23.56	43.50	19.94	Peak
185.20	15.63	3.28	9.60	28.51	43.50	14.99	Peak
350.10	21.15	5.20	4.69	31.04	46.00	14.96	Peak

測試日期	2019/04/18	環境溫/濕度	23°C/48%
測試模式	15W 無線充電模式	測試頻率	TX 127.3 kHz
測試電壓	AC 110V, 60Hz (經電源供應器)		



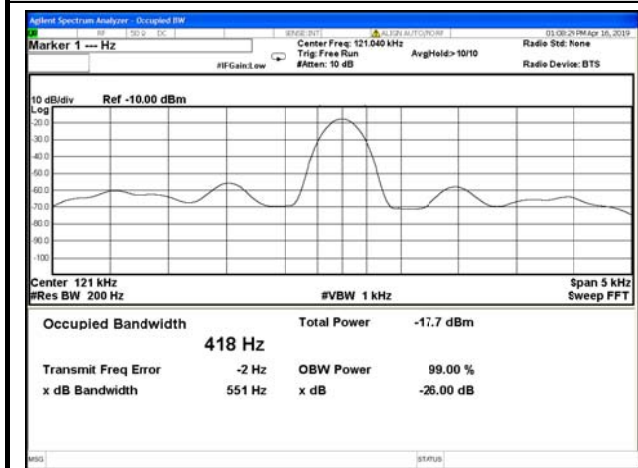
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
47.46	15.90	1.52	16.26	33.68	40.00	6.32	Peak
94.02	16.25	2.21	15.57	34.03	43.50	9.47	Peak
118.27	18.55	2.51	4.68	25.74	43.50	17.76	Peak
186.17	15.69	3.29	7.85	26.83	43.50	16.67	Peak
329.73	20.60	4.90	8.64	34.14	46.00	11.86	Peak
411.21	22.57	5.98	2.87	31.42	46.00	14.58	Peak

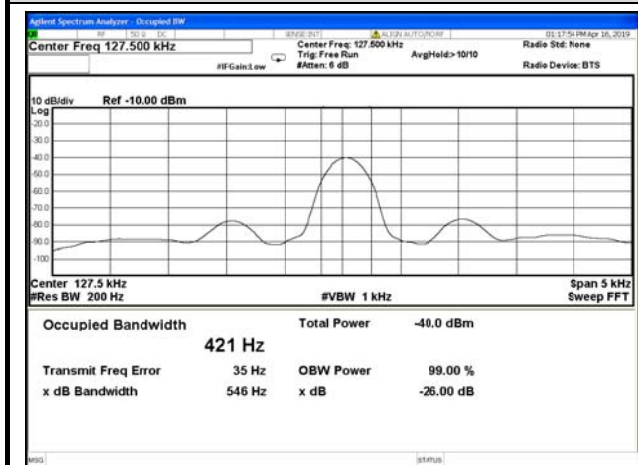
2.3. 頻寬量測

測試日期	2019/04/16	環境溫/濕度	23°C/55%
測試電壓	AC 110V, 60Hz (經電源供應器)		

5W 無線充電模式



10W 無線充電模式



15W 無線充電模式

