

附錄一

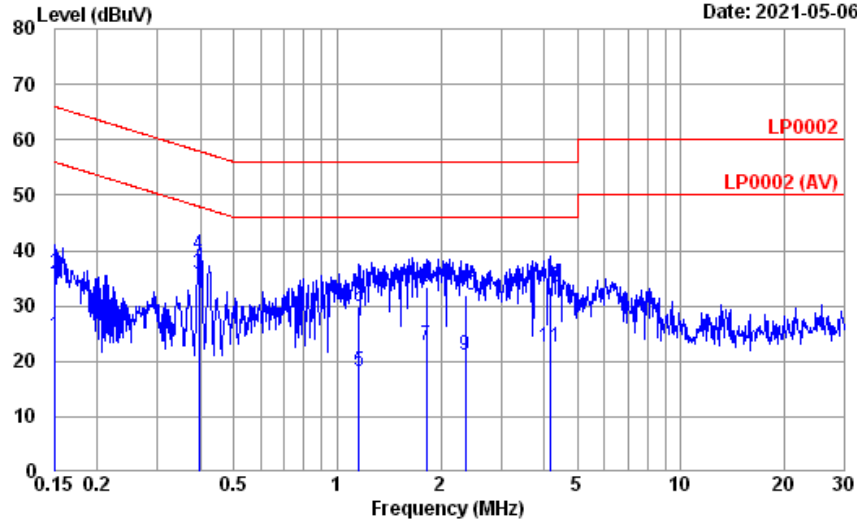
受測裝置之測試結果

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1. 電源線傳導干擾之量測

測試日期	2021/05/06	環境溫/濕度	24°C/59%
測試電壓	AC 110V 60Hz (經電源供應器供電)	測試人員	Chucky Chiu

Data: 2 File: D:\test data\REPORT\2021\C1M2104XXX\C1M2104061-C-D-RF-EM6 (2) Date: 2021-05-06

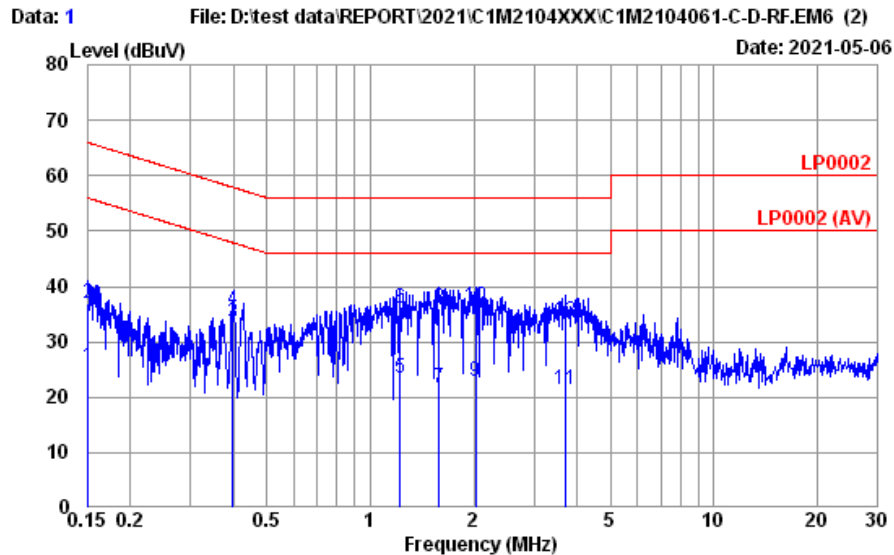


Site No. : No.8 Shielded Room Data No. : 2
 Instrument 1 : Receiver ESR3(774)
 Instrument 2 : ENH432 (567)(A)|CE-08|ESH3-Z2 (354)
 Limit : LP0002 Phase : NEUTRAL
 Environment : 24°C / 59% Engineer : Chucky Chiu
 EUT Model : Accu-Chek Inform II Test Rating : 110Vac/60Hz
 Test Mode : Normal+Charge

	Freq. (MHz)	AMF Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.20	0.03	9.85	4.48	24.56	55.96	31.40	Average
2	0.151	10.20	0.03	9.85	15.77	35.85	65.96	30.11	QP
3	0.396	10.20	0.03	9.85	15.64	35.72	47.95	12.23	Average
4	0.396	10.20	0.03	9.85	19.21	39.29	57.95	18.66	QP
5	1.153	10.20	0.04	9.85	-1.90	18.19	46.00	27.81	Average
6	1.153	10.20	0.04	9.85	9.91	30.00	56.00	26.00	QP
7	1.819	10.30	0.06	9.86	2.57	22.79	46.00	23.21	Average
8	1.819	10.30	0.06	9.86	13.30	33.52	56.00	22.48	QP
9	2.358	10.30	0.07	9.86	0.80	21.03	46.00	24.97	Average
10	2.358	10.30	0.07	9.86	11.73	31.96	56.00	24.04	QP
11	4.180	10.30	0.09	9.86	2.29	22.54	46.00	23.46	Average
12	4.180	10.30	0.09	9.86	13.03	33.28	56.00	22.72	QP

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

測試日期	2021/05/06	環境溫/濕度	24°C/59%
測試電壓	AC 110V 60Hz (經電源供應器供電)	測試人員	Chucky Chiu



Site No. : No.8 Shielded Room Data No. : 1
 Instrument 1 : Receiver ESR3(774)
 Instrument 2 : ENH432 (567)(A)|CE-08|ESH3-Z2 (354)
 Limit : LP0002 Phase : LINE
 Environment : 24°C / 59% Engineer : Chucky Chiu
 EUT Model : Accu-Chek Inform II Test Rating : 110Vac/60Hz
 Test Mode : Normal+Charge

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.20	0.03	9.85	5.40	25.48	55.96	30.48	Average
2	0.151	10.20	0.03	9.85	16.74	36.82	65.96	29.14	QP
3	0.398	10.20	0.03	9.85	13.35	33.43	47.90	14.47	Average
4	0.398	10.20	0.03	9.85	15.63	35.71	57.90	22.19	QP
5	1.223	10.30	0.04	9.85	3.39	23.58	46.00	22.42	Average
6	1.223	10.30	0.04	9.85	15.99	36.18	56.00	19.82	QP
7	1.585	10.30	0.05	9.86	1.38	21.59	46.00	24.41	Average
8	1.585	10.30	0.05	9.86	15.95	36.16	56.00	19.84	QP
9	2.023	10.30	0.06	9.86	2.74	22.96	46.00	23.04	Average
10	2.023	10.30	0.06	9.86	16.21	36.43	56.00	19.57	QP
11	3.700	10.30	0.09	9.86	1.22	21.47	46.00	24.53	Average
12	3.700	10.30	0.09	9.86	13.59	33.84	56.00	22.16	QP

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

2. 場強輻射之量測

本裝置有兩種電源供應模式分別為(1)電池(DC 3.7V)、(2)DC 7.5V, 1.7A (Accu-Chek Inform II Base Unit 充電)，實驗室以單機(電池供電)以三種不同的擺設方式(站立、平放、側立)及電源供應器(Accu-Chek Inform II Base Unit 充電)供電進行量試評估，**最後選取最大場強值的擺設方式單機(平放，電池供電)供電以低、中、高頻率來進行量測，並將下列測試模式測試數據隨案件所附。**；最後，選擇較差模式進行讀值之測量，所得讀值資料請見章節 2.1 ~ 2.2：

支援 IEEE 802.11b/g/n，依測試要求評估低、中、高頻率，並檢附三頻率之最差模式於此測試報告中。

模式	供應電源	動作狀態	基本頻率	量測頻率範圍
Normal+Charge	AC110V 60Hz (經電源供應器供電)	Full System	---	30-1000MHz
				1000-25000MHz
模式	供應電源	動作狀態	基本頻率	量測頻率範圍
802.11b	DC 3.7V (經電池供電)	發射	2412MHz	1000-25000MHz
802.11g			2437MHz*	30-1000MHz
				1000-25000MHz
802.11n-HT20			2437MHz	1000-25000MHz
802.11n-HT40			2437MHz	1000-25000MHz
---		接收	2437MHz	30-1000MHz
				1000-25000MHz

註.*: 經評估後，以最差頻率進行 30-1000MHz 量測。

對受測物裝置落於低功率射頻器材技術規範第 3.5 章節的禁用頻帶之混附發射以下列測試模式依規定分別進行量測，所得量測資料請見章節 2.3。

模式	供應電源	動作狀態	基本頻率	量測頻率範圍
802.11b	DC 3.7V (經電池供電)	發射	2412MHz	2310-2430MHz
			2462MHz	2430-2930MHz
802.11g			2412MHz	2310-2430MHz
			2462MHz	2430-2930MHz
802.11n-HT20			2412MHz	2310-2430MHz
			2462MHz	2430-2930MHz
802.11n-HT40			2422MHz	2310-2450MHz
			2452MHz	2425-2925MHz

測試日期	2021/05/03~04	環境溫/濕度	24~26°C/64~70%
測試電壓	(1)AC 110V 60Hz (經電源供應器供電) (2)DC 3.7V (經電池供電)	測試人員	Sean Wang

2.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	Normal+Charge	Frequency	---
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.850	16.29	1.35	28.13	34.42	23.93	40.00	16.07	Peak
120.210	11.90	2.68	27.95	39.03	25.66	43.50	17.84	Peak
265.710	12.46	4.19	27.60	41.68	30.73	46.00	15.27	Peak
540.220	17.75	6.97	29.29	39.72	35.15	46.00	10.85	Peak
647.890	18.63	7.31	29.37	37.66	34.23	46.00	11.77	Peak
966.050	21.01	9.01	28.66	35.05	36.41	54.00	17.59	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.850	16.29	1.35	28.13	42.42	31.93	40.00	8.07	Peak
114.390	11.77	2.61	27.98	40.57	26.97	43.50	16.53	Peak
216.240	10.36	3.70	27.65	38.13	24.54	46.00	21.46	Peak
527.610	17.62	6.96	29.27	41.21	36.52	46.00	9.48	Peak
943.740	20.79	8.91	28.74	36.06	37.02	46.00	8.98	Peak
978.660	21.13	9.07	28.64	34.86	36.42	54.00	17.58	Peak

Mode	802.11g	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.910	17.47	1.29	28.14	34.34	24.96	40.00	15.04	Peak
216.240	10.36	3.70	27.65	41.23	27.64	46.00	18.36	Peak
265.710	12.46	4.19	27.60	41.50	30.55	46.00	15.45	Peak
540.220	17.75	6.97	29.29	39.29	34.72	46.00	11.28	Peak
800.180	20.00	8.13	29.13	35.96	34.96	46.00	11.04	Peak
993.210	21.26	9.13	28.59	34.56	36.36	54.00	17.64	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.850	16.29	1.35	28.13	42.44	31.95	40.00	8.05	Peak
114.390	11.77	2.61	27.98	41.40	27.80	43.50	15.70	Peak
480.080	16.95	6.75	29.08	40.84	35.46	46.00	10.54	Peak
576.110	18.17	7.01	29.36	40.07	35.89	46.00	10.11	Peak
931.130	20.70	8.86	28.76	38.72	39.52	46.00	6.48	Peak
977.690	21.13	9.06	28.64	35.92	37.47	54.00	16.53	Peak

Mode	---	Frequency	RX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.880	16.85	1.32	28.13	34.71	24.75	40.00	15.25	Peak
120.210	11.90	2.68	27.95	37.34	23.97	43.50	19.53	Peak
265.710	12.46	4.19	27.60	41.55	30.60	46.00	15.40	Peak
540.220	17.75	6.97	29.29	39.76	35.19	46.00	10.81	Peak
940.830	20.79	8.90	28.74	35.62	36.57	46.00	9.43	Peak
976.720	21.10	9.06	28.64	35.05	36.57	54.00	17.43	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.850	16.29	1.35	28.13	42.60	32.11	40.00	7.89	Peak
114.390	11.77	2.61	27.98	42.31	28.71	43.50	14.79	Peak
480.080	16.95	6.75	29.08	40.19	34.81	46.00	11.19	Peak
576.110	18.17	7.01	29.36	39.75	35.57	46.00	10.43	Peak
925.310	20.64	8.83	28.79	36.47	37.15	46.00	8.85	Peak
982.540	21.16	9.08	28.64	34.43	36.03	54.00	17.97	Peak

2.2. 1000MHz 以上頻率範圍，其他不必要發射量測

頻率範圍量測至主波發射的 10 倍諧波，其他未列在報告上乃因訊號太小無法量測。

Mode	Normal+Charge	Frequency	---
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	34.10	10.49	34.47	35.75	45.87	54.00	8.13	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	34.10	10.49	34.47	34.95	45.07	54.00	8.93	Peak

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	33.67	10.49	34.44	36.13	45.85	54.00	8.15	Peak
7235.000	35.40	12.27	34.66	32.04	45.05	54.00	8.95	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	33.67	10.49	34.44	36.96	46.68	54.00	7.32	Peak
7235.000	35.40	12.27	34.66	33.28	46.29	54.00	7.71	Peak

Mode	802.11g	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.000	33.85	10.54	34.43	33.91	43.87	54.00	10.13	Peak
7310.000	35.50	12.29	34.69	31.51	44.61	54.00	9.39	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.000	33.85	10.54	34.43	31.81	41.77	54.00	12.23	Peak
7310.000	35.50	12.29	34.69	32.00	45.10	54.00	8.90	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.000	33.85	10.54	34.43	33.55	43.51	54.00	10.49	Peak
7310.000	35.50	12.29	34.69	32.02	45.12	54.00	8.88	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.000	33.85	10.54	34.43	33.80	43.76	54.00	10.24	Peak
7310.000	35.50	12.29	34.69	31.45	44.55	54.00	9.45	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.000	33.85	10.54	34.43	31.85	41.81	54.00	12.19	Peak
7310.000	35.50	12.29	34.69	31.10	44.20	54.00	9.80	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.000	33.85	10.54	34.43	33.05	43.01	54.00	10.99	Peak
7310.000	35.50	12.29	34.69	31.97	45.07	54.00	8.93	Peak

Mode	---	Frequency	RX 2437MHz
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Antenna at Horizontal Polarization

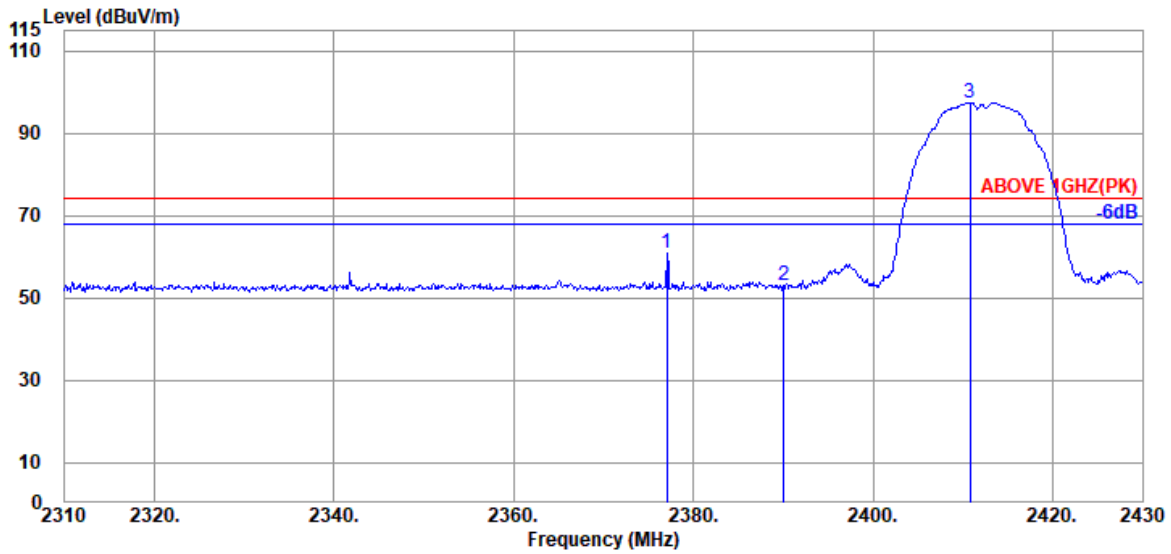
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1688.000	28.99	7.28	34.63	40.30	41.94	54.00	12.06	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1595.000	28.31	7.12	34.68	42.03	42.78	54.00	11.22	Peak

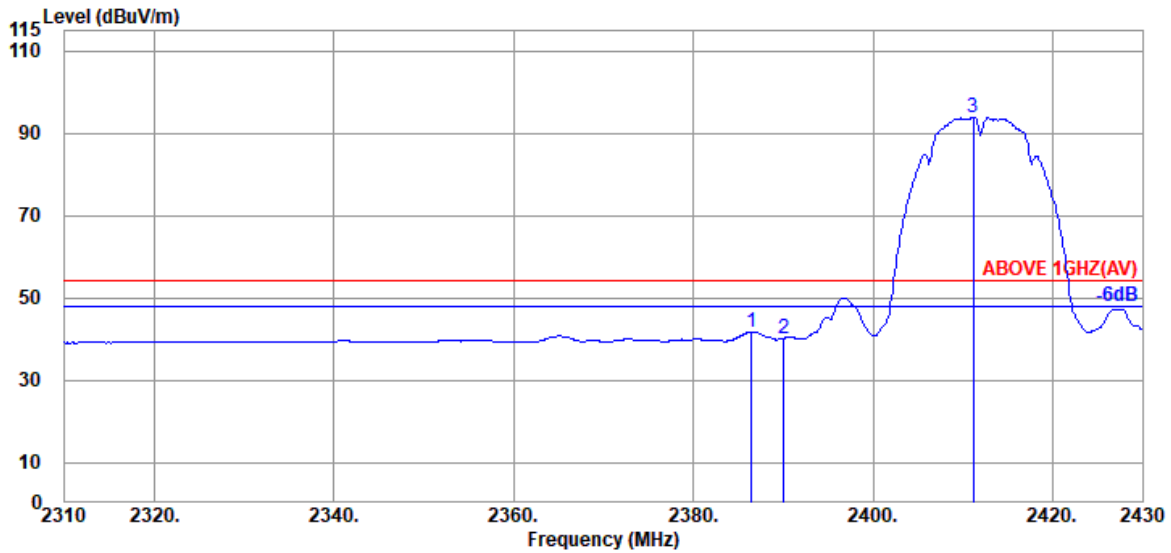
2.3. 禁用頻帶量測結果 (其他不必要發射)

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2377.080	32.41	7.95	34.58	55.20	60.98	74.00	13.02	Peak
2390.040	32.44	7.95	34.58	47.13	52.94	74.00	21.06	Peak
@ 2410.800	32.43	7.96	34.59	91.58	97.38	---	---	Peak

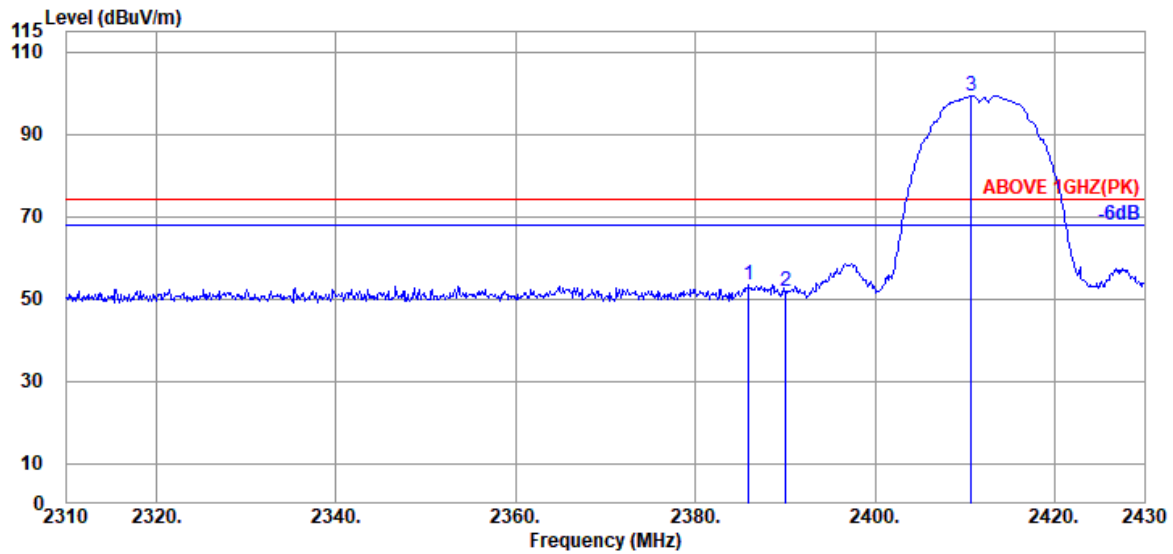


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.440	32.44	7.95	34.58	35.89	41.70	54.00	12.30	Average
2390.040	32.44	7.95	34.58	34.32	40.13	54.00	13.87	Average
@ 2411.160	32.43	7.96	34.59	88.14	93.94	---	---	Average

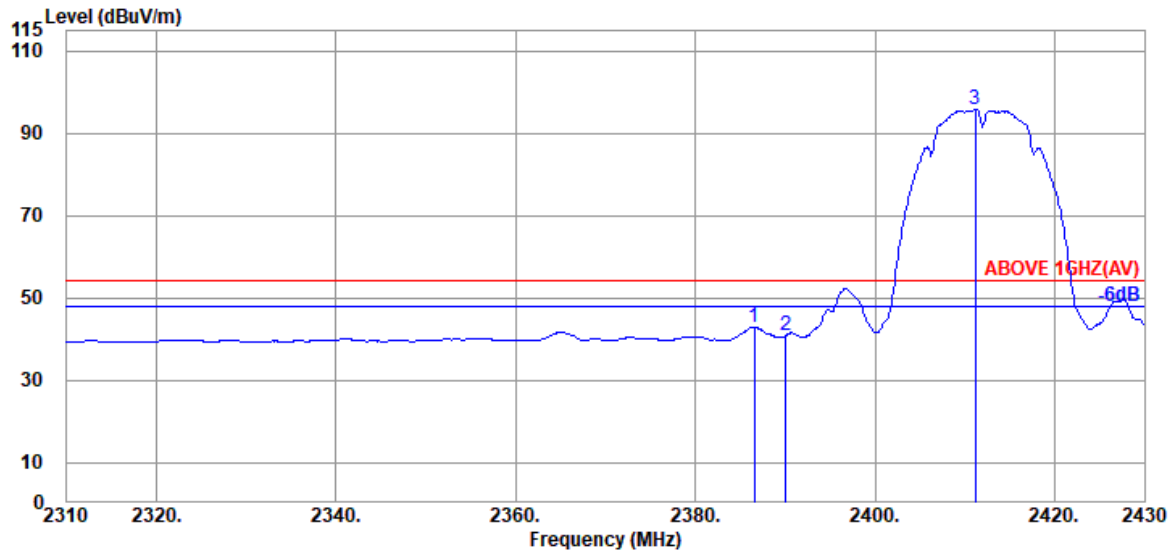
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.960	32.44	7.95	34.58	47.51	53.32	74.00	20.68	Peak
2390.040	32.44	7.95	34.58	46.04	51.85	74.00	22.15	Peak
@ 2410.680	32.43	7.96	34.59	93.45	99.25	---	---	Peak

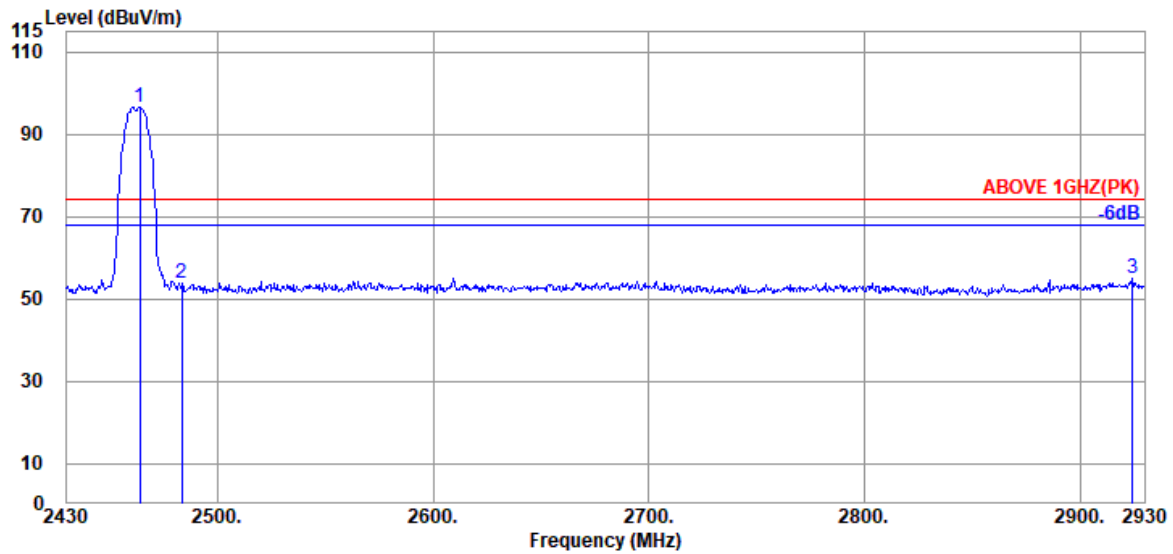


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.560	32.44	7.95	34.58	36.96	42.77	54.00	11.23	Average
2390.040	32.44	7.95	34.58	35.04	40.85	54.00	13.15	Average
@ 2411.160	32.43	7.96	34.59	90.00	95.80	---	---	Average

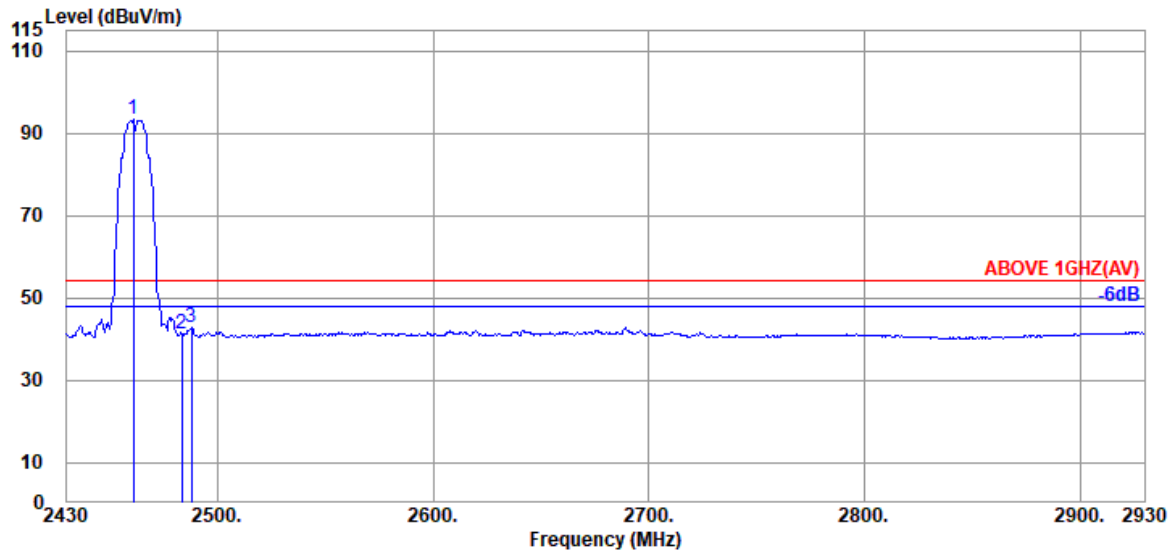
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.000	32.30	7.98	34.55	90.90	96.63	---	---	Peak
2483.500	32.30	7.99	34.55	47.92	53.66	74.00	20.34	Peak
2924.500	32.90	8.19	34.64	48.67	55.12	74.00	18.88	Peak

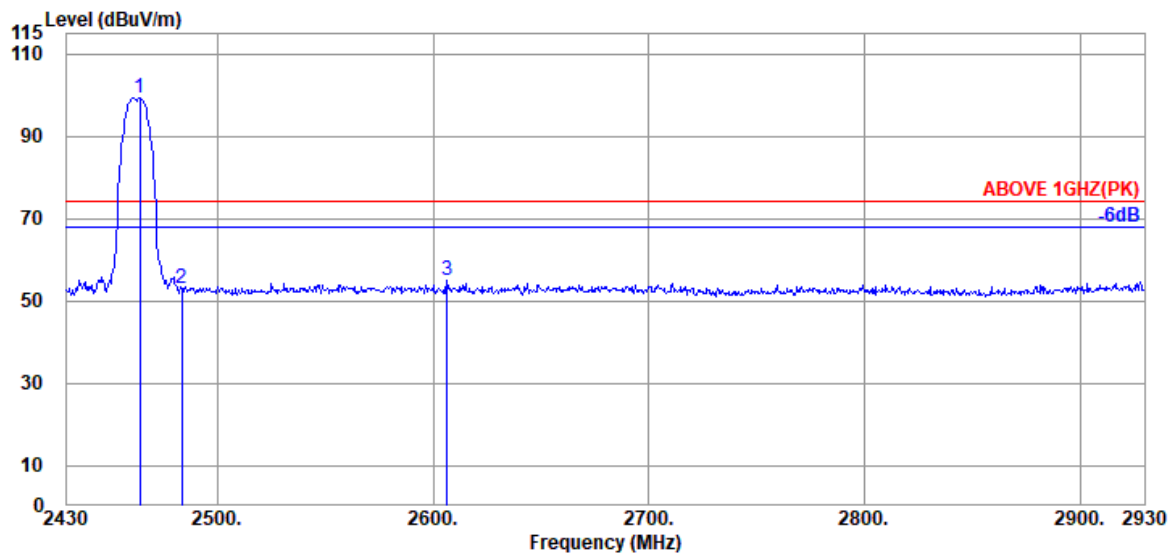


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.000	32.30	7.98	34.55	87.60	93.33	---	---	Average
2483.500	32.30	7.99	34.55	35.64	41.38	54.00	12.62	Average
2488.000	32.30	8.00	34.55	36.88	42.63	54.00	11.37	Average

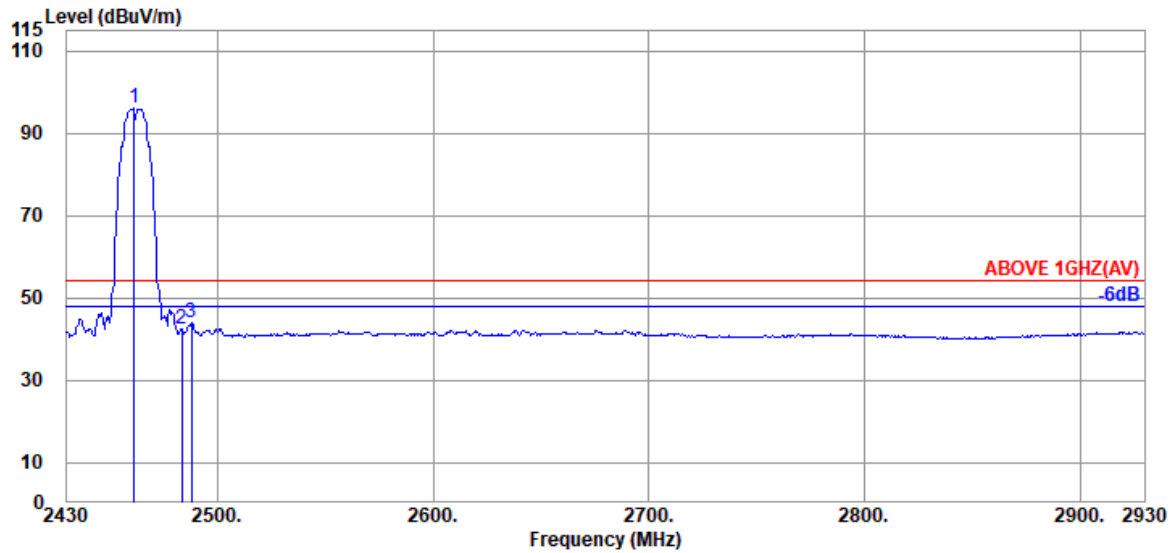
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.000	32.30	7.98	34.55	93.71	99.44	---	---	Peak
2483.500	32.30	7.99	34.55	47.31	53.05	74.00	20.95	Peak
2606.500	32.50	8.05	34.58	48.99	54.96	74.00	19.04	Peak

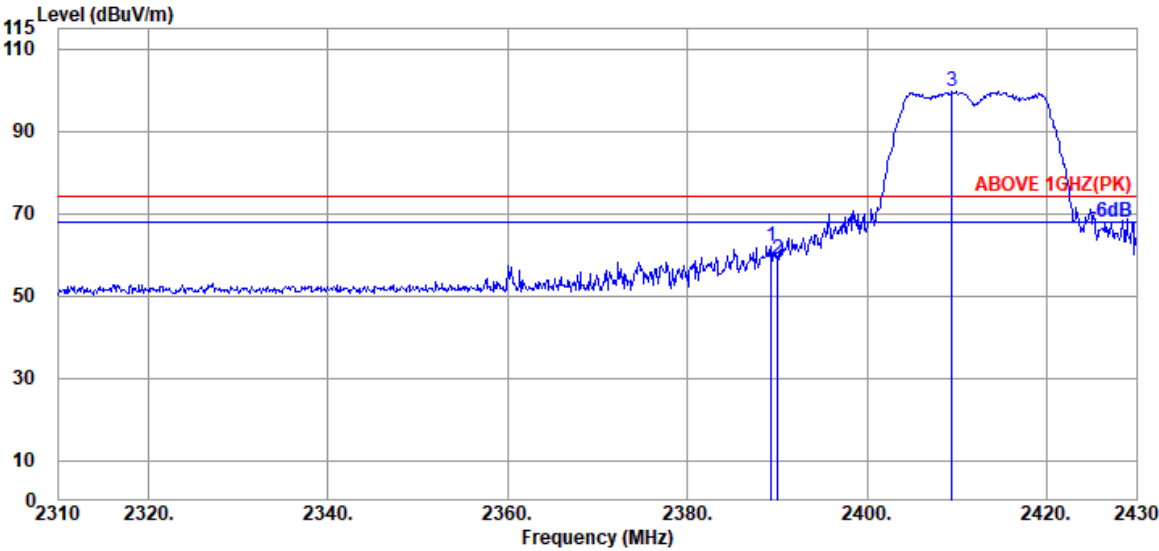


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.500	32.30	7.98	34.55	90.44	96.17	---	---	Average
2483.500	32.30	7.99	34.55	36.63	42.37	54.00	11.63	Average
2488.000	32.30	8.00	34.55	38.11	43.86	54.00	10.14	Average

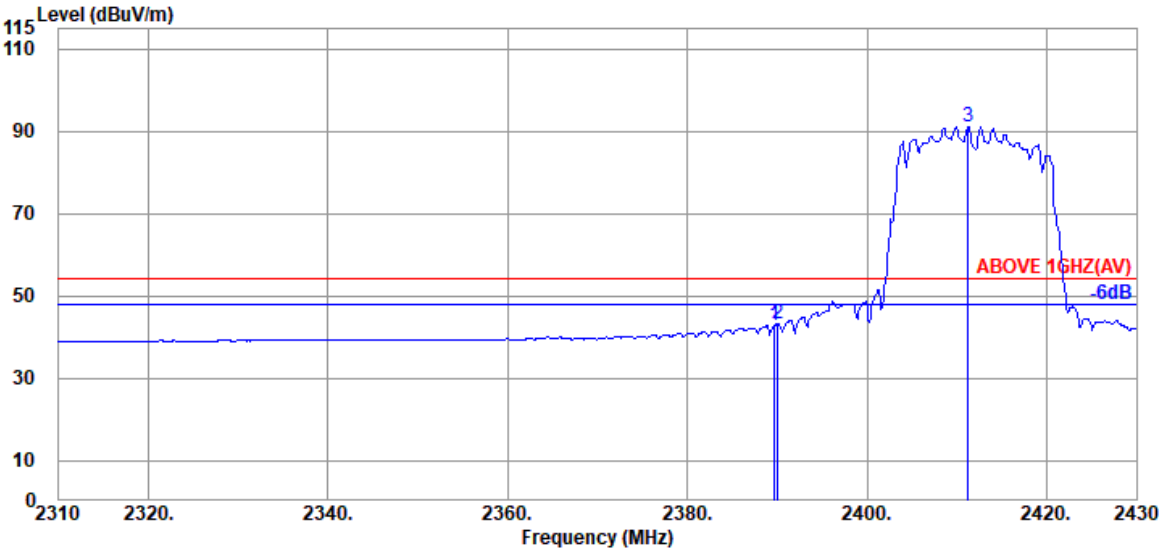
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.320	31.89	7.95	34.53	56.59	61.90	74.00	12.10	Peak
2390.040	31.89	7.95	34.54	53.69	58.99	74.00	15.01	Peak
@ 2409.480	31.87	7.96	34.54	94.37	99.66	---	---	Peak

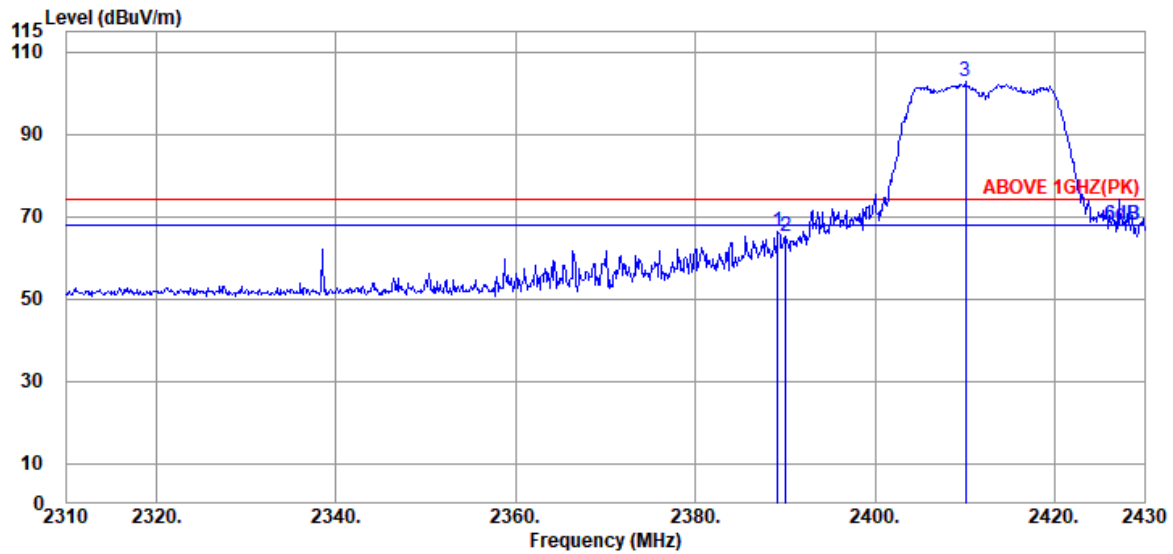


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	31.89	7.95	34.53	37.41	42.72	54.00	11.28	Average
2390.040	31.89	7.95	34.54	37.82	43.12	54.00	10.88	Average
@ 2411.280	31.94	7.96	34.54	85.89	91.25	---	---	Average

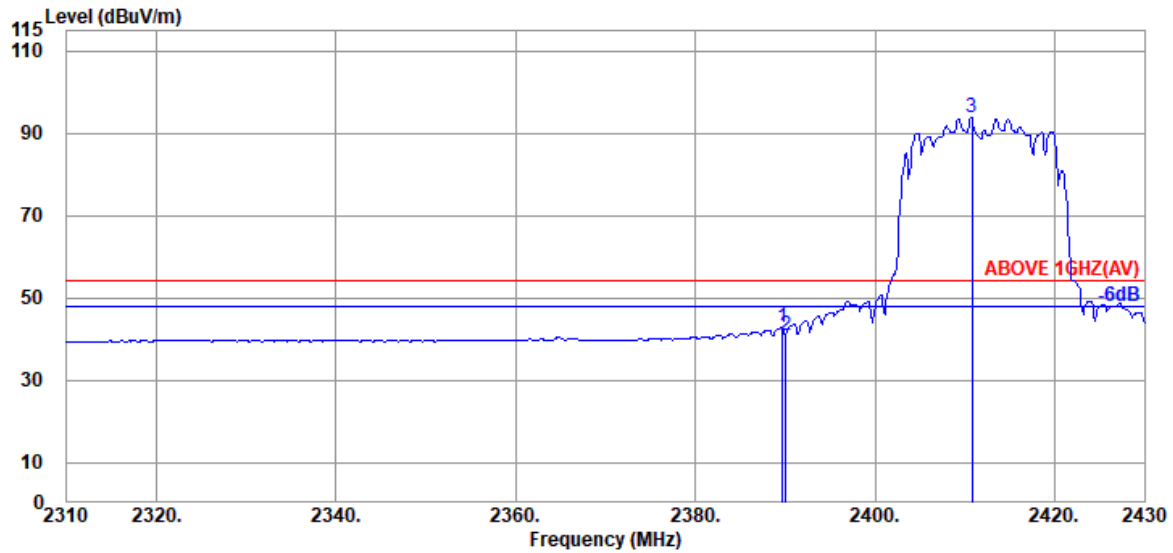
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.200	31.89	7.95	34.53	61.07	66.38	74.00	7.62	Peak
2390.040	31.89	7.95	34.54	59.67	64.97	74.00	9.03	Peak
@ 2410.080	31.87	7.96	34.54	97.54	102.83	---	---	Peak

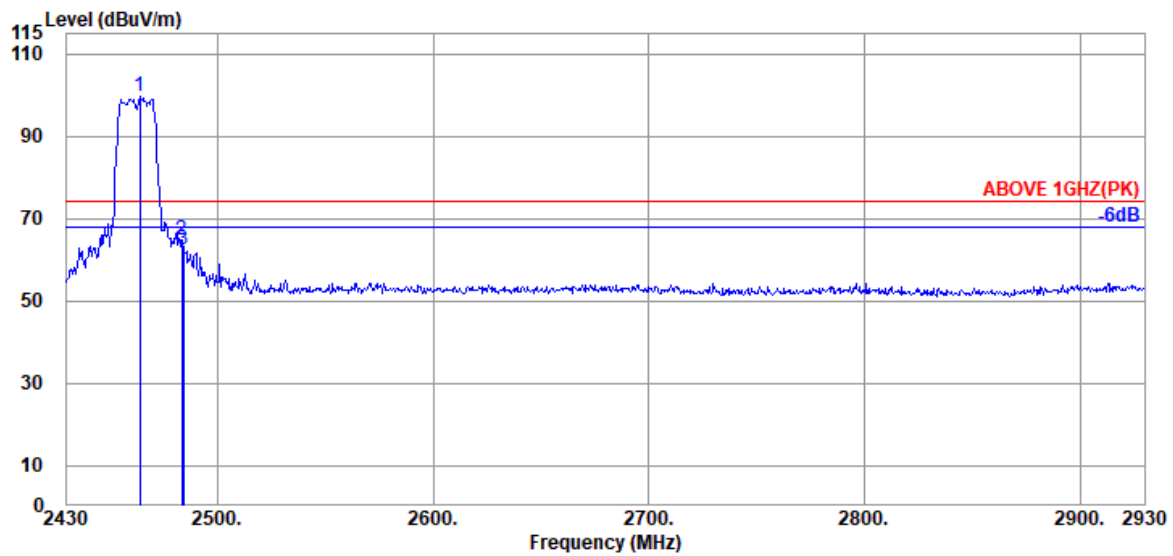


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	31.89	7.95	34.53	37.46	42.77	54.00	11.23	Average
2390.040	31.89	7.95	34.54	35.56	40.86	54.00	13.14	Average
@ 2410.800	31.87	7.96	34.54	88.41	93.70	---	---	Average

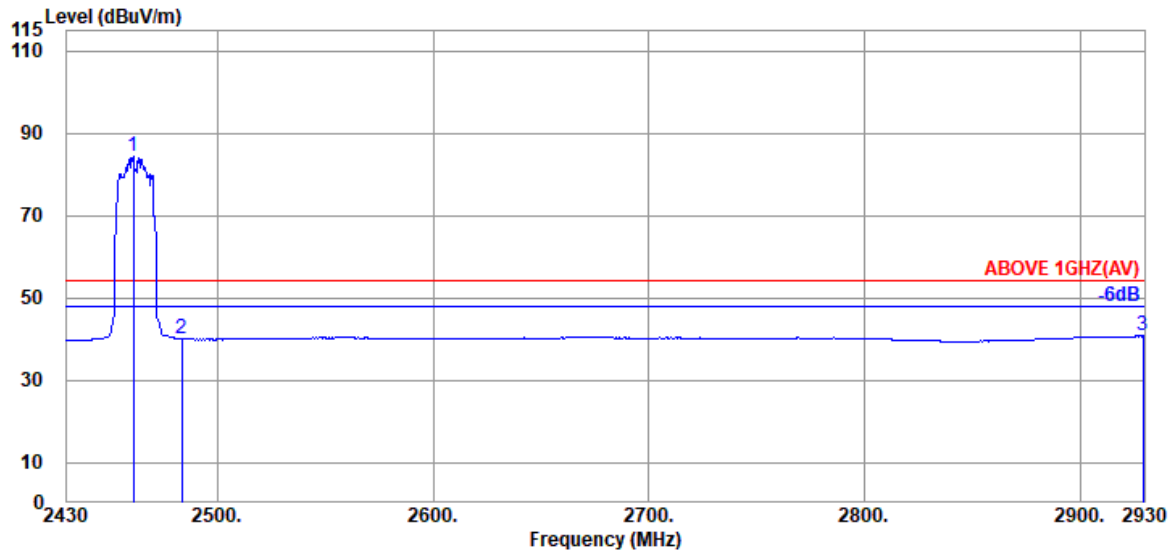
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2464.000	32.30	7.98	34.55	94.07	99.80	---	---	Peak
2483.500	32.30	7.99	34.55	58.91	64.65	74.00	9.35	Peak
2484.000	32.30	7.99	34.55	56.57	62.31	74.00	11.69	Peak

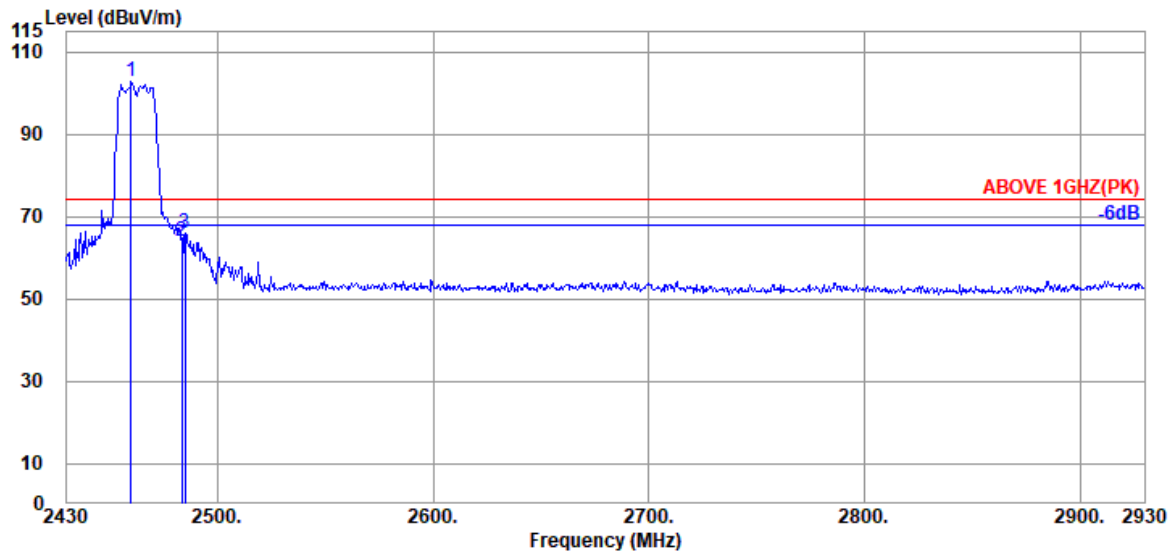


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2461.000	32.30	7.98	34.55	78.50	84.23	---	---	Average
2483.500	32.30	7.99	34.55	34.25	39.99	54.00	14.01	Average
2929.500	32.97	8.19	34.65	34.13	40.64	54.00	13.36	Average

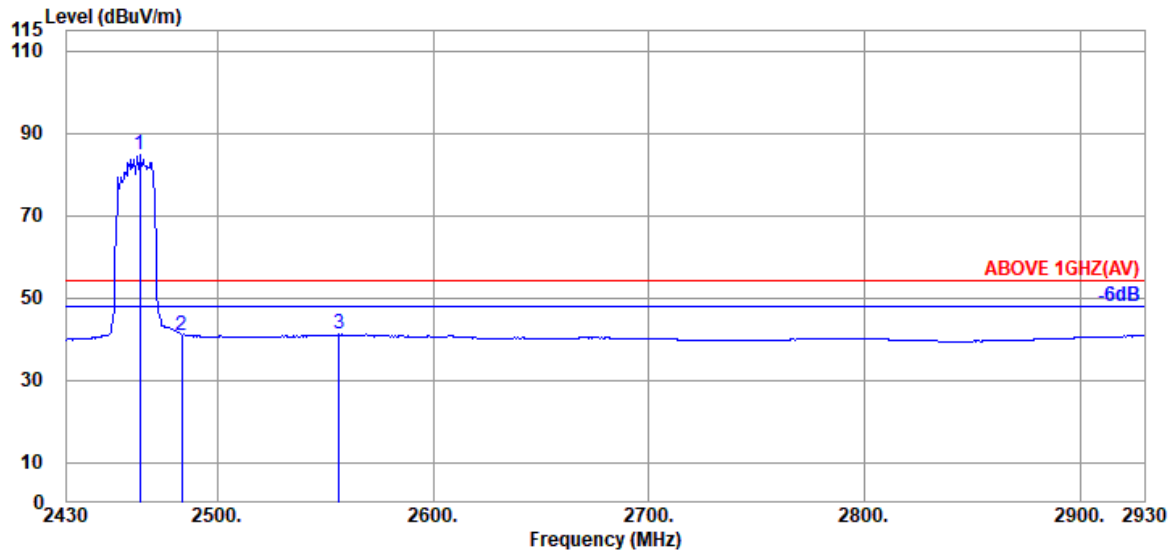
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.000	32.30	7.98	34.55	97.06	102.79	---	---	Peak
2483.500	32.30	7.99	34.55	58.42	64.16	74.00	9.84	Peak
2485.000	32.30	7.99	34.55	60.38	66.12	74.00	7.88	Peak

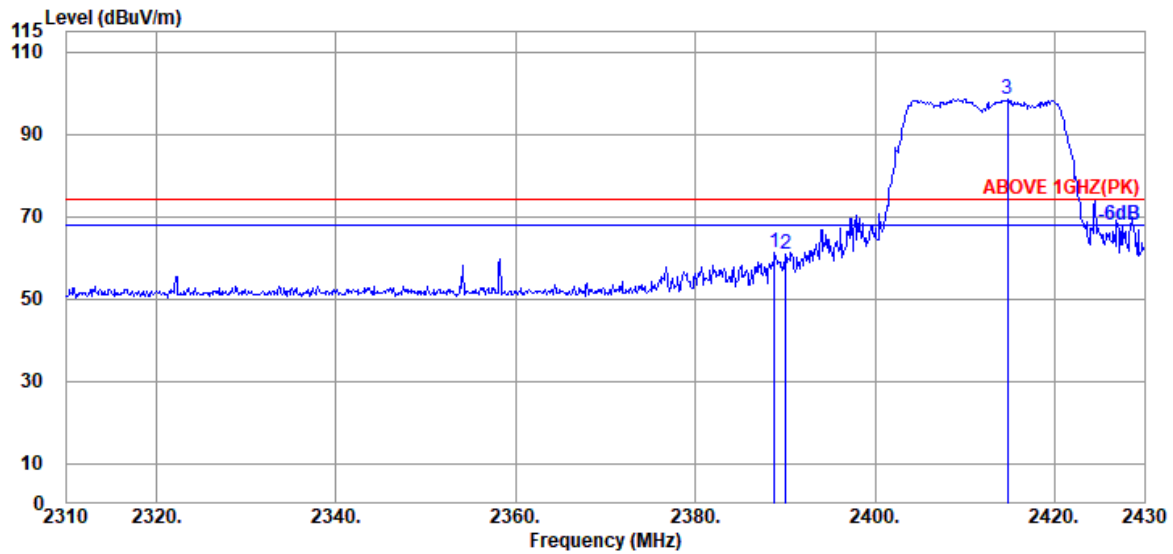


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.000	32.30	7.98	34.55	78.91	84.64	---	---	Average
2483.500	32.30	7.99	34.55	35.21	40.95	54.00	13.05	Average
2556.500	32.50	8.03	34.57	35.34	41.30	54.00	12.70	Average

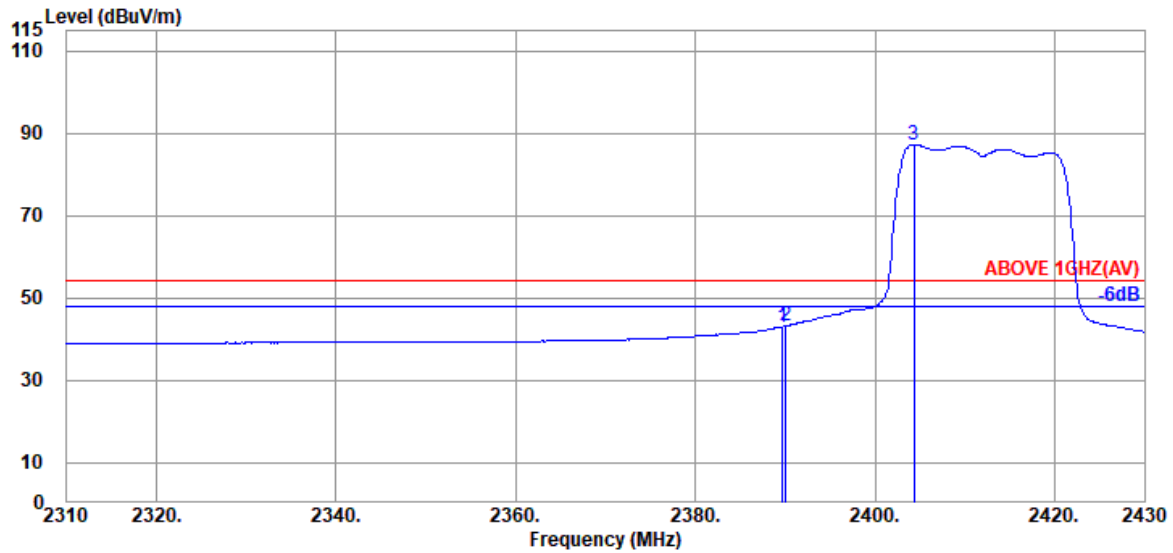
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.840	31.89	7.95	34.53	55.95	61.26	74.00	12.74	Peak
2390.040	31.89	7.95	34.54	55.36	60.66	74.00	13.34	Peak
@ 2414.760	31.94	7.96	34.54	93.33	98.69	---	---	Peak

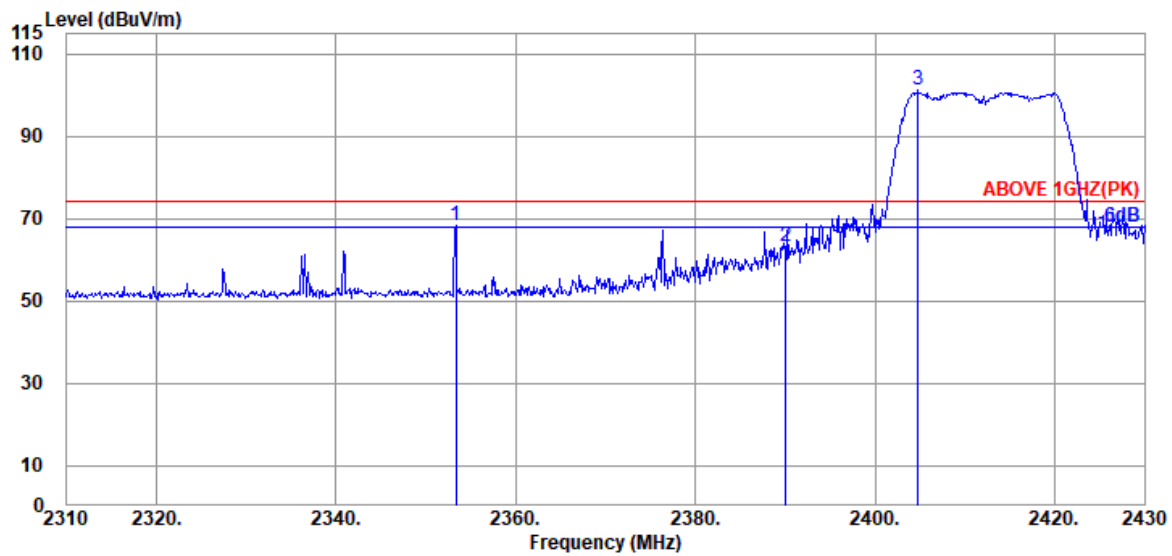


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	31.89	7.95	34.53	37.63	42.94	54.00	11.06	Average
2390.040	31.89	7.95	34.54	37.83	43.13	54.00	10.87	Average
@ 2404.320	31.87	7.95	34.54	82.04	87.32	---	---	Average

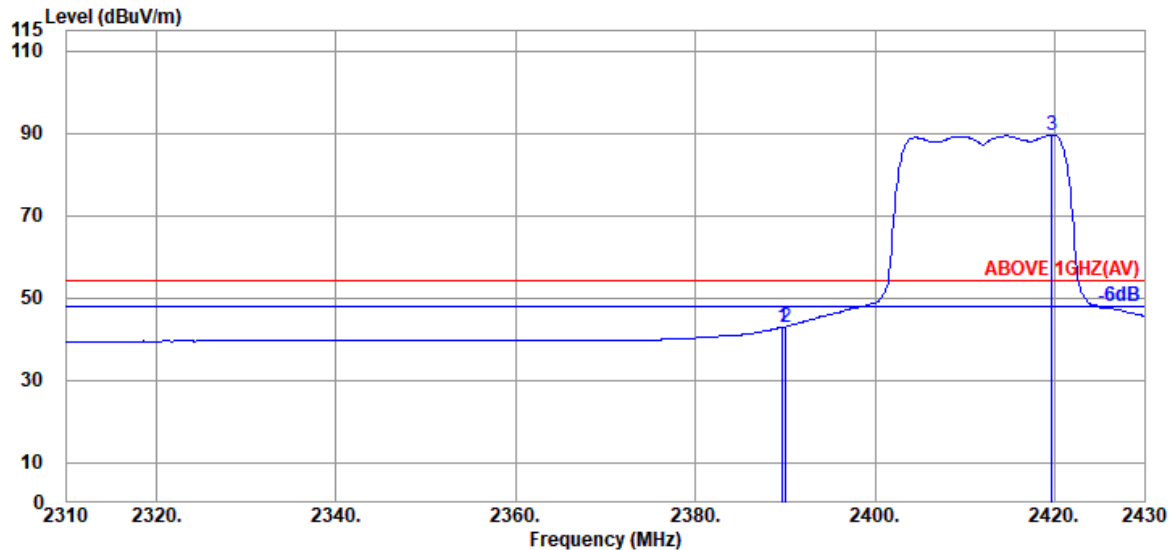
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2353.320	32.10	7.93	34.53	62.77	68.27	74.00	5.73	Peak
2390.040	31.89	7.95	34.54	57.96	63.26	74.00	10.74	Peak
@ 2404.800	31.87	7.95	34.54	95.89	101.17	---	---	Peak

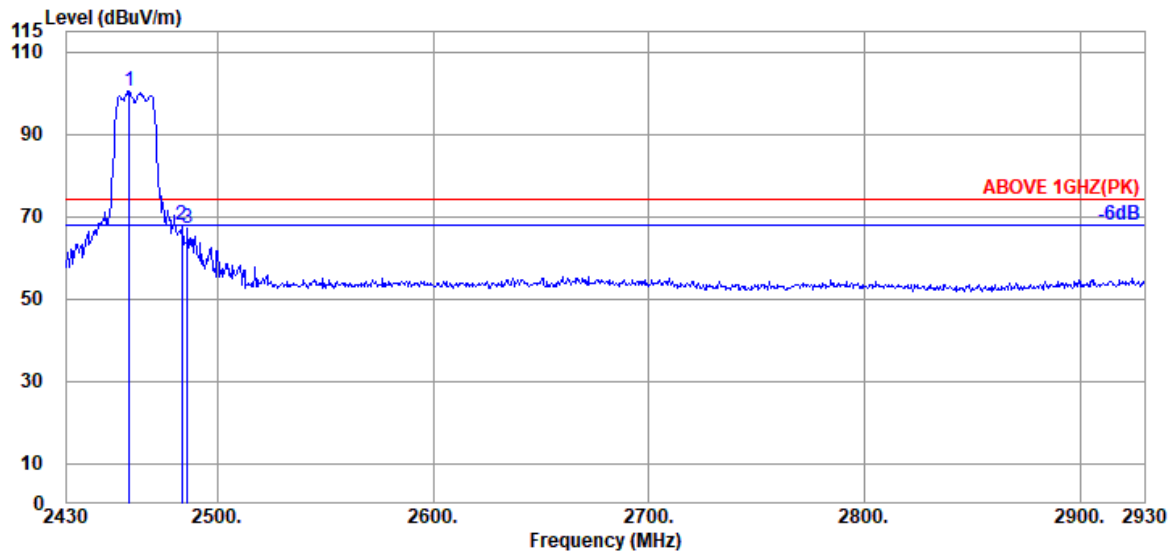


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	31.89	7.95	34.53	37.50	42.81	54.00	11.19	Average
2390.040	31.89	7.95	34.54	37.67	42.97	54.00	11.03	Average
@ 2419.680	32.01	7.96	34.54	84.11	89.54	---	---	Average

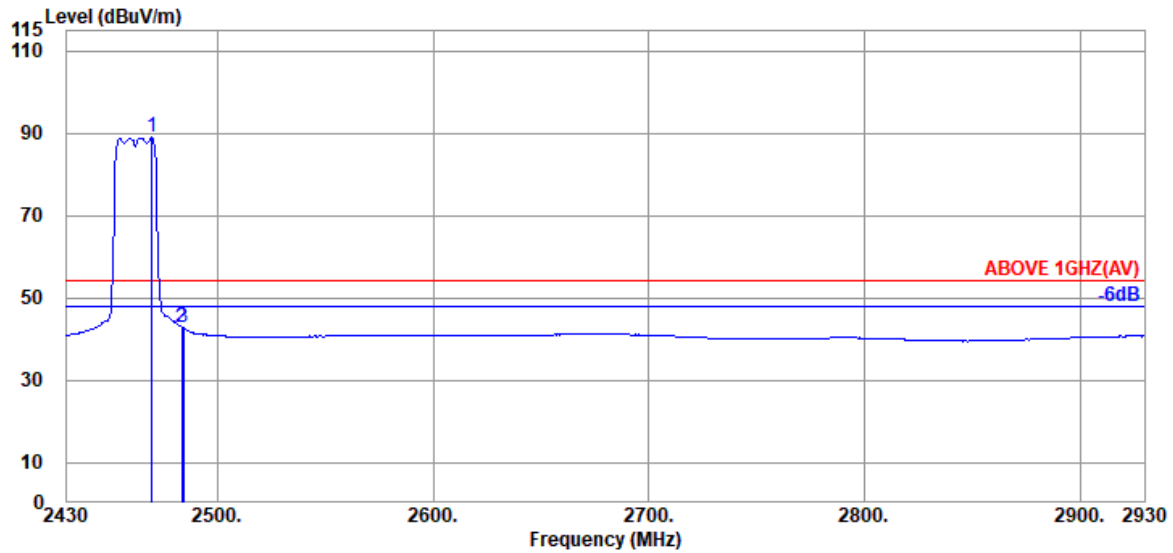
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.000	32.30	7.98	34.55	94.69	100.42	---	---	Peak
2483.500	32.30	7.99	34.55	62.02	67.76	74.00	6.24	Peak
2486.000	32.30	8.00	34.55	61.26	67.01	74.00	6.99	Peak

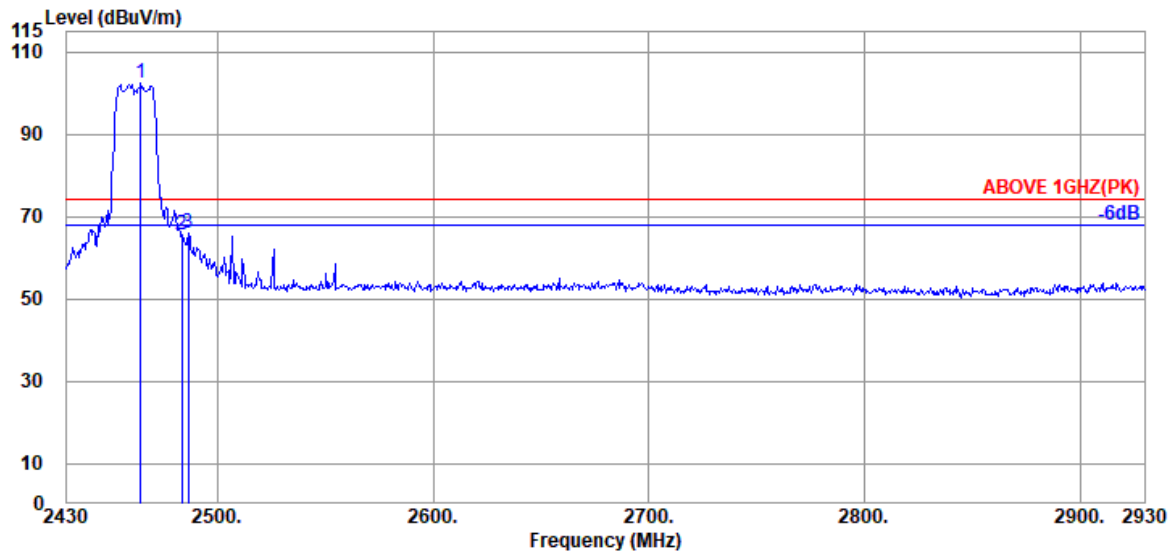


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2469.500	32.09	7.98	34.60	83.47	88.94	---	---	Average
2483.500	32.14	7.99	34.61	37.32	42.84	54.00	11.16	Average
2484.000	32.14	7.99	34.61	37.07	42.59	54.00	11.41	Average

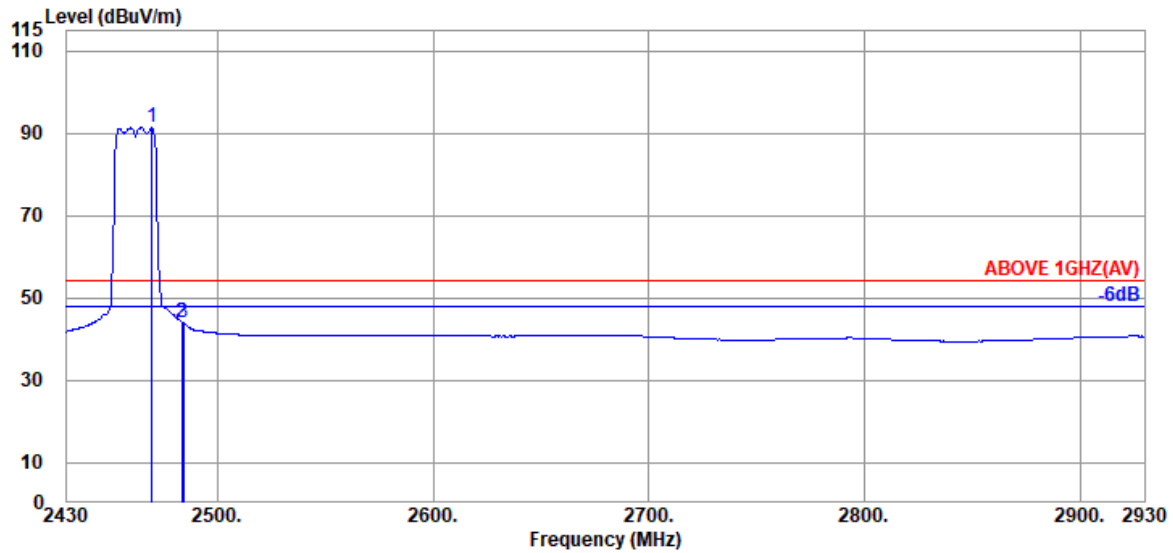
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2464.500	32.30	7.98	34.55	96.52	102.25	---	---	Peak
2483.500	32.30	7.99	34.55	59.95	65.69	74.00	8.31	Peak
2486.500	32.30	8.00	34.55	60.36	66.11	74.00	7.89	Peak

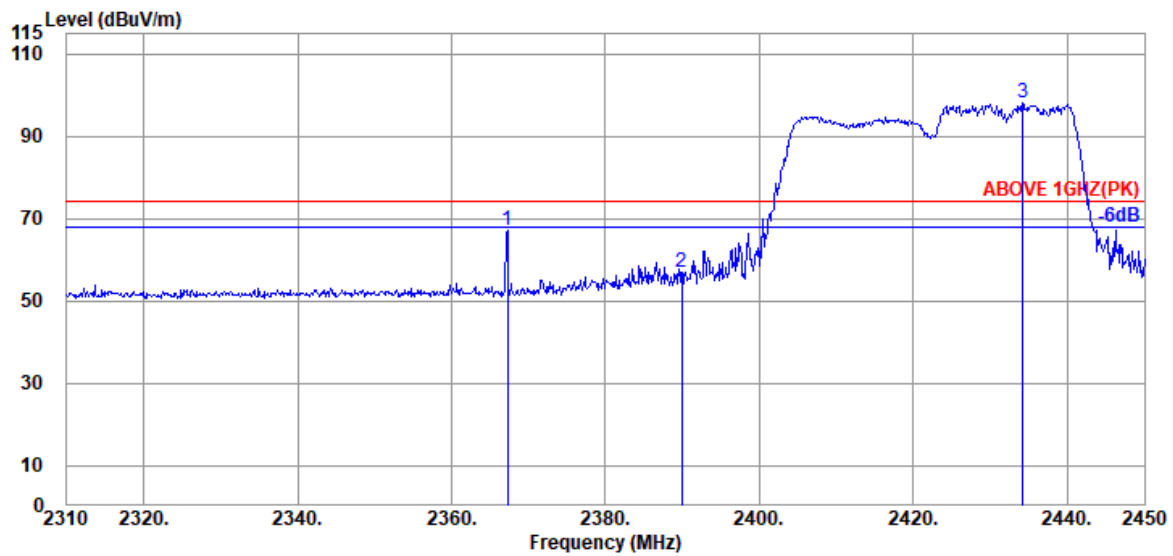


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2469.500	32.09	7.98	34.60	85.86	91.33	---	---	Average
2483.500	32.14	7.99	34.61	38.55	44.07	54.00	9.93	Average
2484.000	32.14	7.99	34.61	38.34	43.86	54.00	10.14	Average

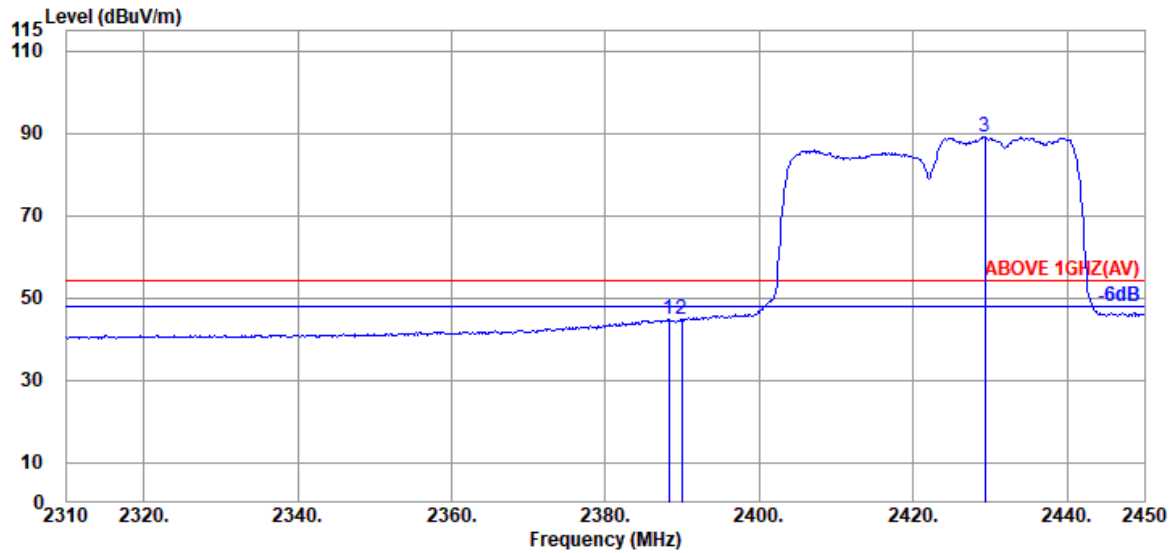
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2367.260	32.01	7.94	34.53	61.51	66.93	74.00	7.07	Peak
2389.940	31.89	7.95	34.54	51.44	56.74	74.00	17.26	Peak
@ 2434.180	32.16	7.97	34.54	92.43	98.02	---	---	Peak

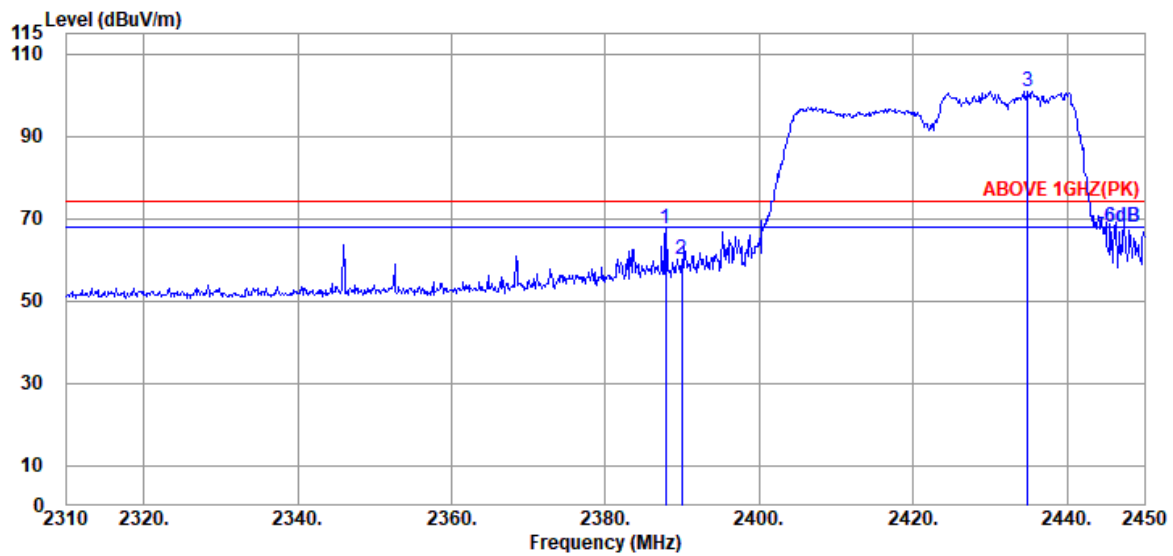


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.260	31.89	7.95	34.53	39.45	44.76	54.00	9.24	Average
2389.940	31.89	7.95	34.54	39.30	44.60	54.00	9.40	Average
@ 2429.280	32.09	7.97	34.54	83.66	89.18	---	---	Average

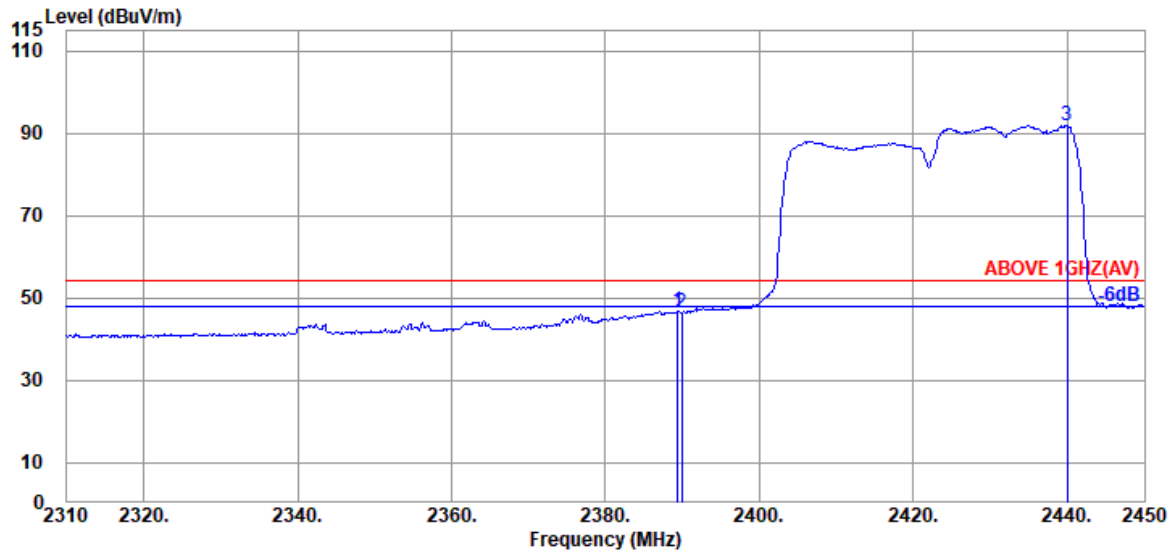
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.840	31.89	7.95	34.53	62.22	67.53	74.00	6.47	Peak
2389.940	31.89	7.95	34.54	54.79	60.09	74.00	13.91	Peak
@ 2434.880	32.16	7.97	34.54	95.24	100.83	---	---	Peak

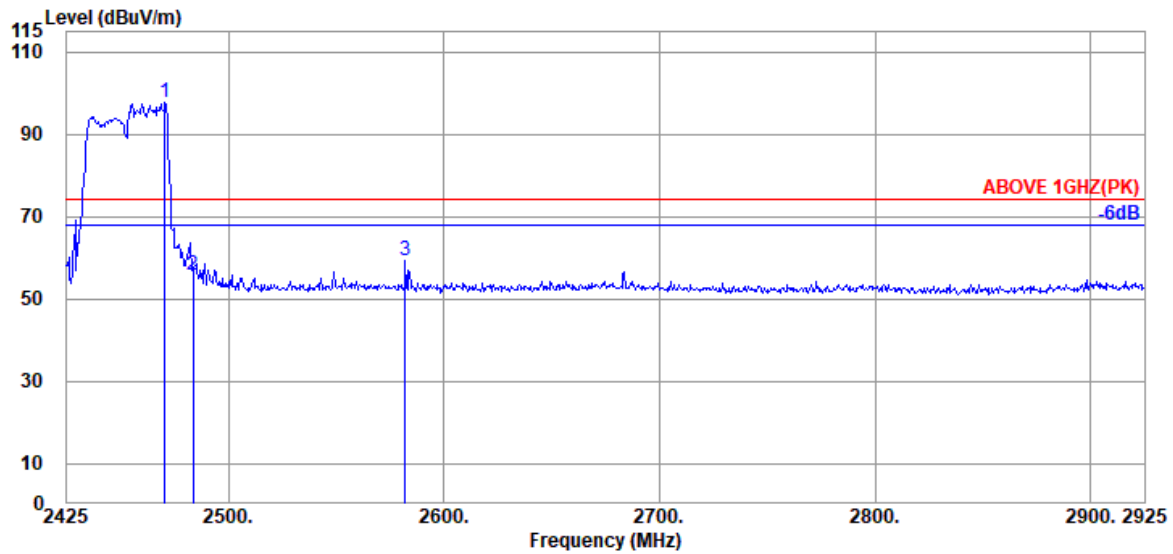


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.380	31.89	7.95	34.53	41.37	46.68	54.00	7.32	Average
2389.940	31.89	7.95	34.54	41.20	46.50	54.00	7.50	Average
@ 2439.920	32.23	7.98	34.54	86.34	92.01	---	---	Average

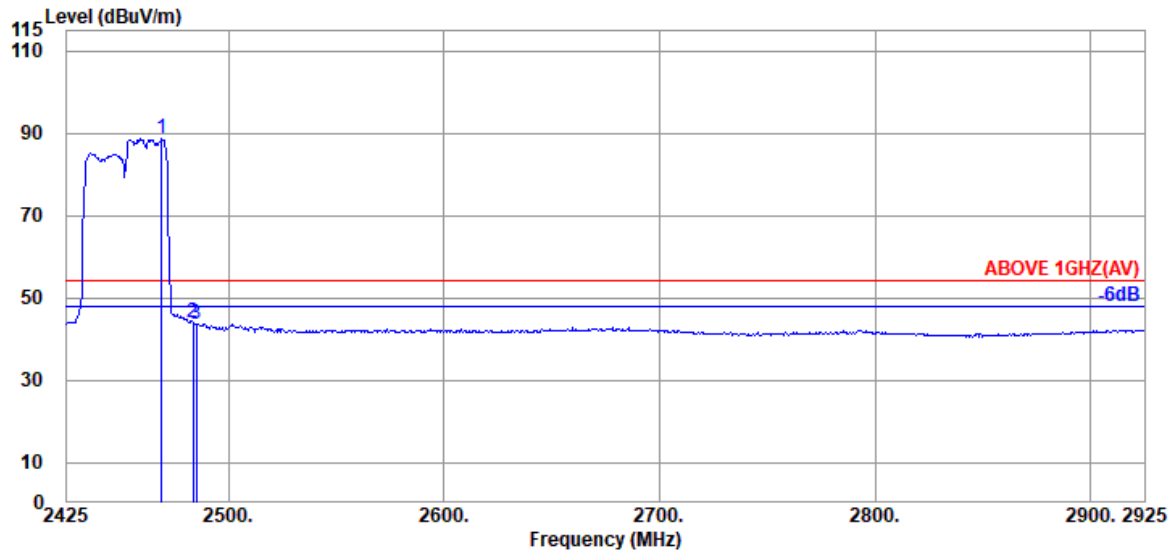
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.500	32.30	7.99	34.55	91.80	97.54	---	---	Peak
2483.500	32.30	7.99	34.55	50.13	55.87	74.00	18.13	Peak
2582.000	32.50	8.04	34.58	53.33	59.29	74.00	14.71	Peak

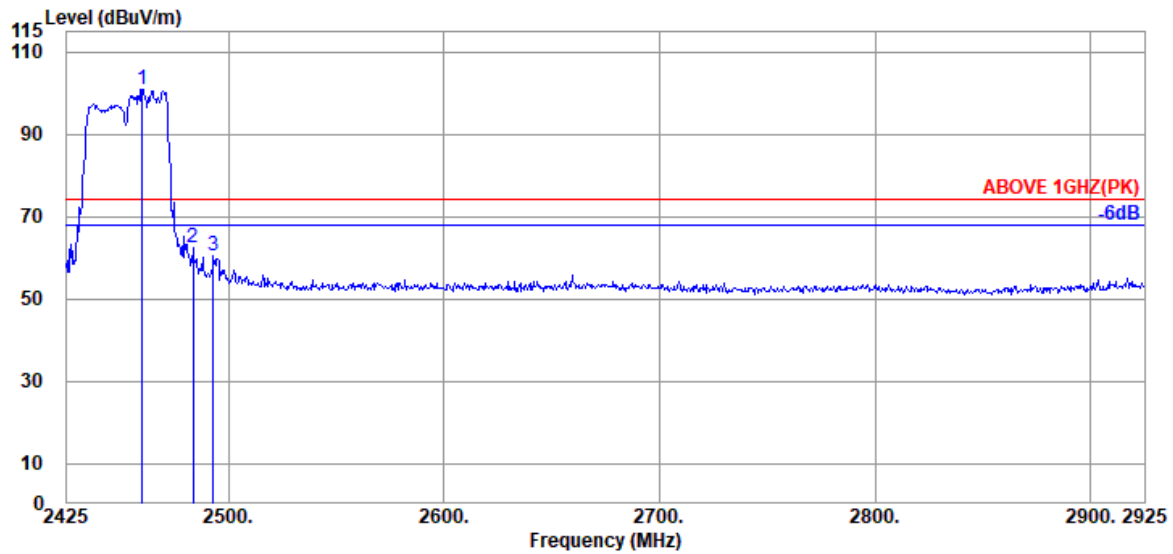


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2469.000	32.30	7.98	34.55	83.03	88.76	---	---	Average
2483.500	32.30	7.99	34.55	38.17	43.91	54.00	10.09	Average
2485.000	32.30	7.99	34.55	37.88	43.62	54.00	10.38	Average

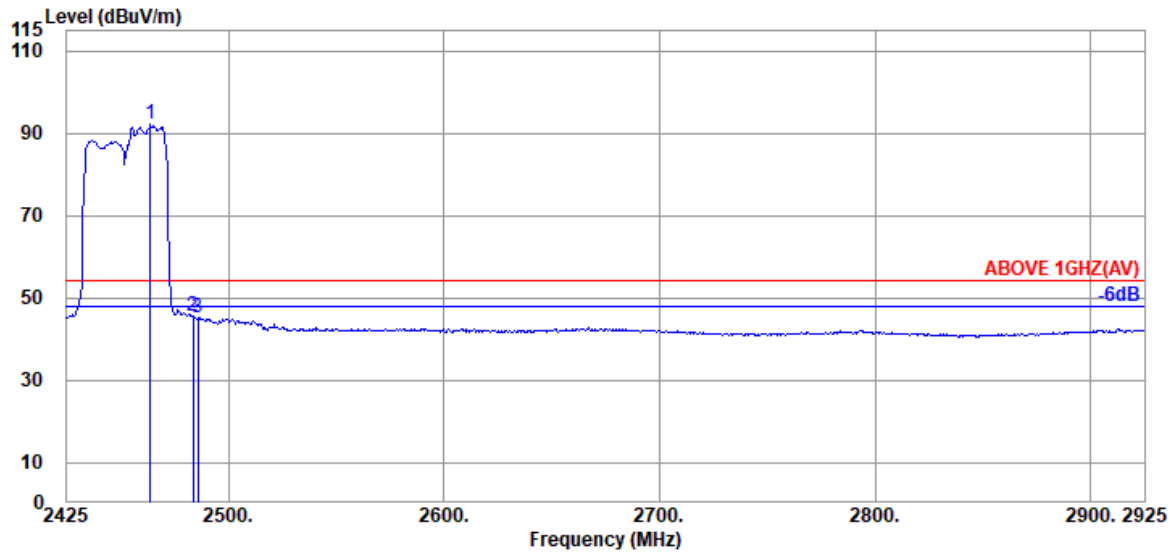
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.000	32.30	7.98	34.55	95.25	100.98	---	---	Peak
2483.500	32.30	7.99	34.55	56.61	62.35	74.00	11.65	Peak
2493.000	32.30	8.00	34.56	54.79	60.53	74.00	13.47	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.000	32.30	7.98	34.55	86.35	92.08	---	---	Average
2483.500	32.30	7.99	34.55	39.88	45.62	54.00	8.38	Average
2486.000	32.30	8.00	34.55	39.42	45.17	54.00	8.83	Average

備註：“@”為主波，在此章節是不予以判定。

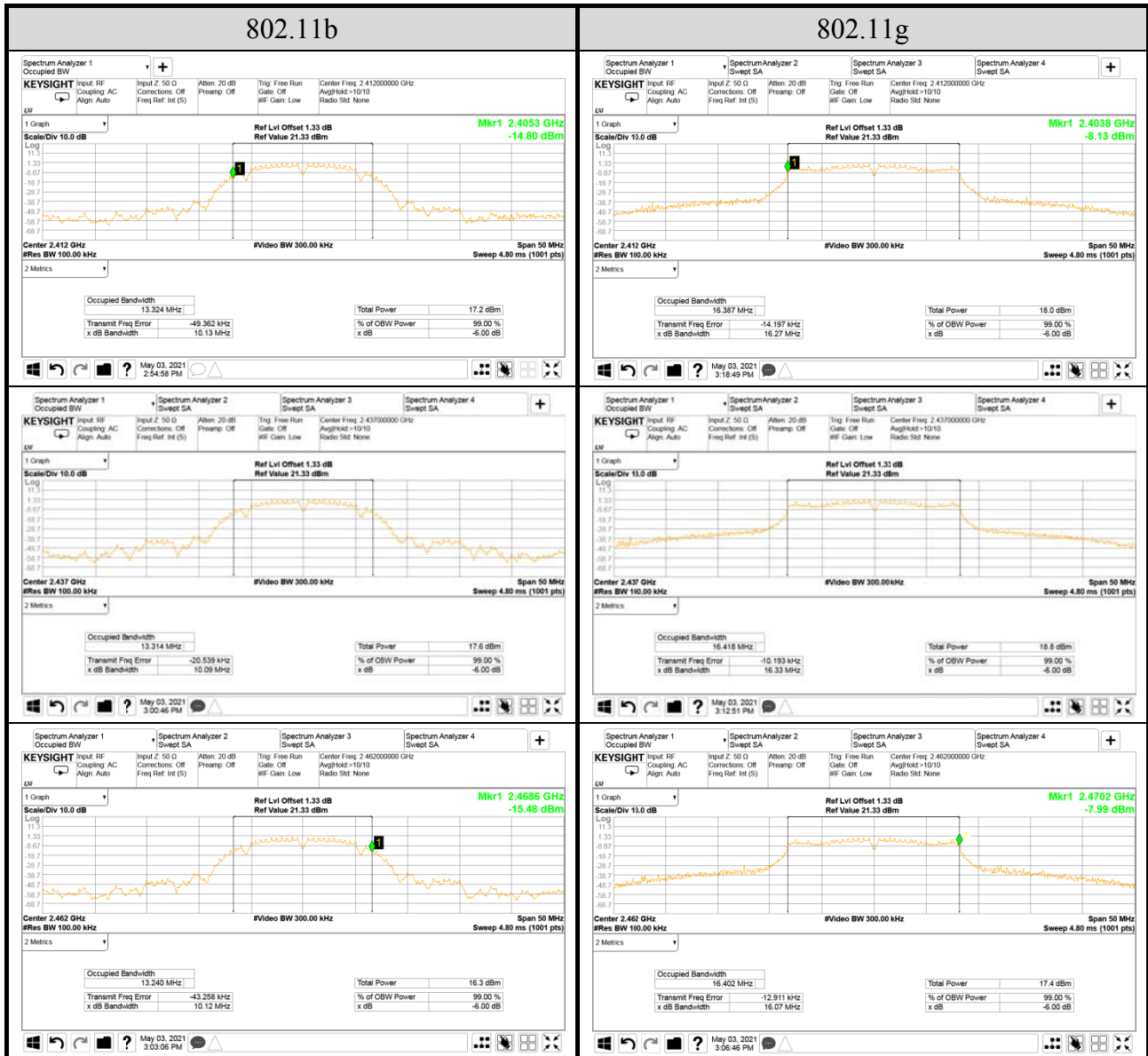
3. 發射頻寬之量測

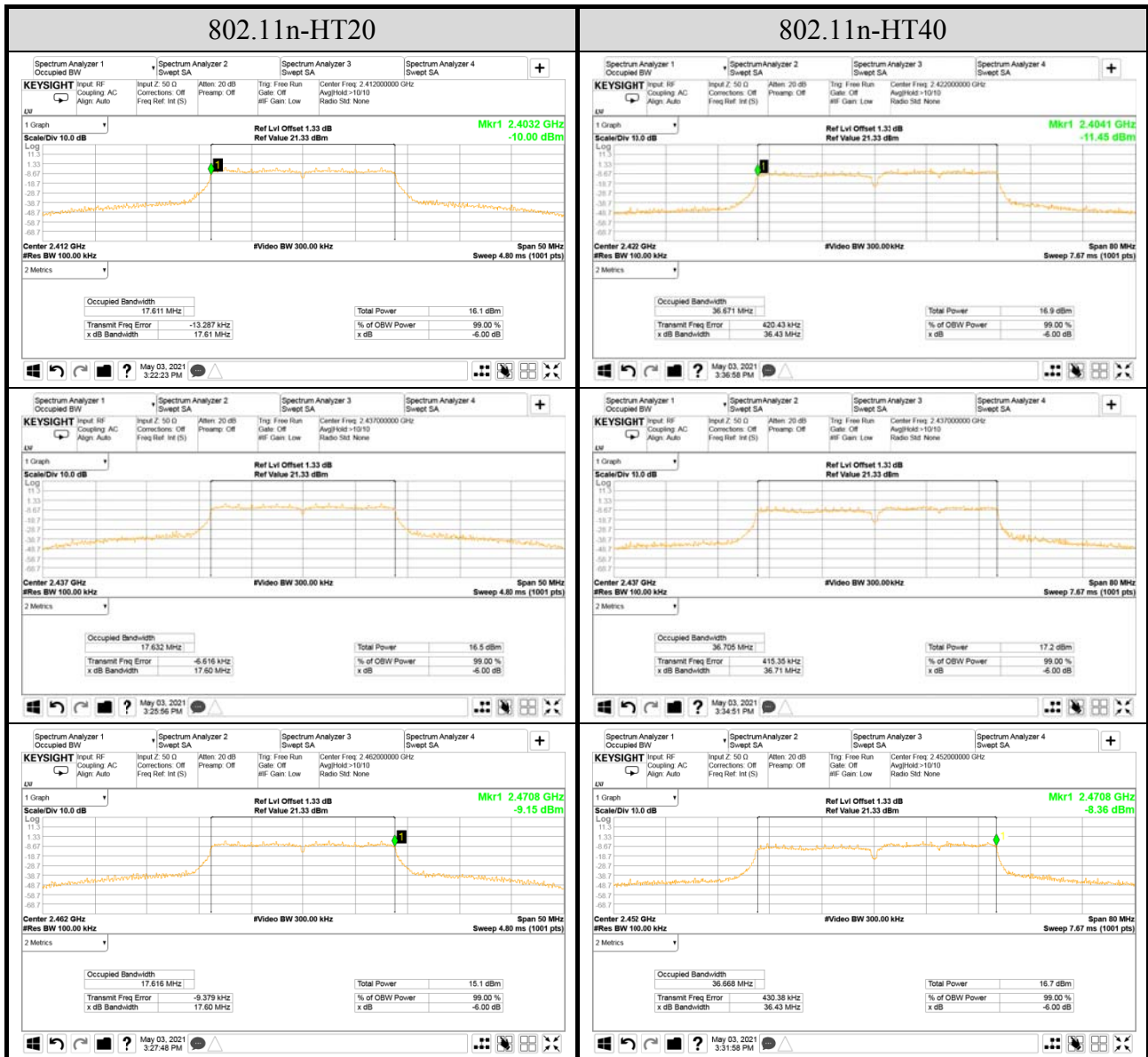
測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	測試人員	Sean Wang
測試電壓	DC 3.7V (經電池供電)		

3.1. 發射頻寬

模式	測試頻率 (MHz)	6dB 頻寬 (MHz)	限制值 (kHz)
802.11b	2412	10.30	>500
	2437	10.09	
	2462	10.12	
802.11g	2412	16.27	
	2437	16.33	
	2462	16.07	
802.11n-HT20	2412	17.61	
	2437	17.60	
	2462	17.60	
802.11n-HT40	2422	36.43	
	2437	36.71	
	2452	36.43	

3.2. 發射頻寬之量測圖





4. 峰值輸出功率之量測

測試日期	2021/04/27	環境溫/濕度	25°C/55%
電纜損失	1.33dB	測試人員	Sean Wang
測試電壓	DC 3.7V (經電池供電)		

4.1. 峰值輸出功率

模式	測試頻率 (MHz)	輸出功率(dBm)	限制值 (dBm)
802.11b	2412	13.12	30
	2437	13.11	
	2462	11.66	
802.11g	2412	23.00	
	2437	23.35	
	2462	23.07	
802.11n-HT20	2412	21.69	
	2437	22.76	
	2462	21.91	
802.11n-HT40	2422	21.73	
	2437	22.87	
	2452	20.41	

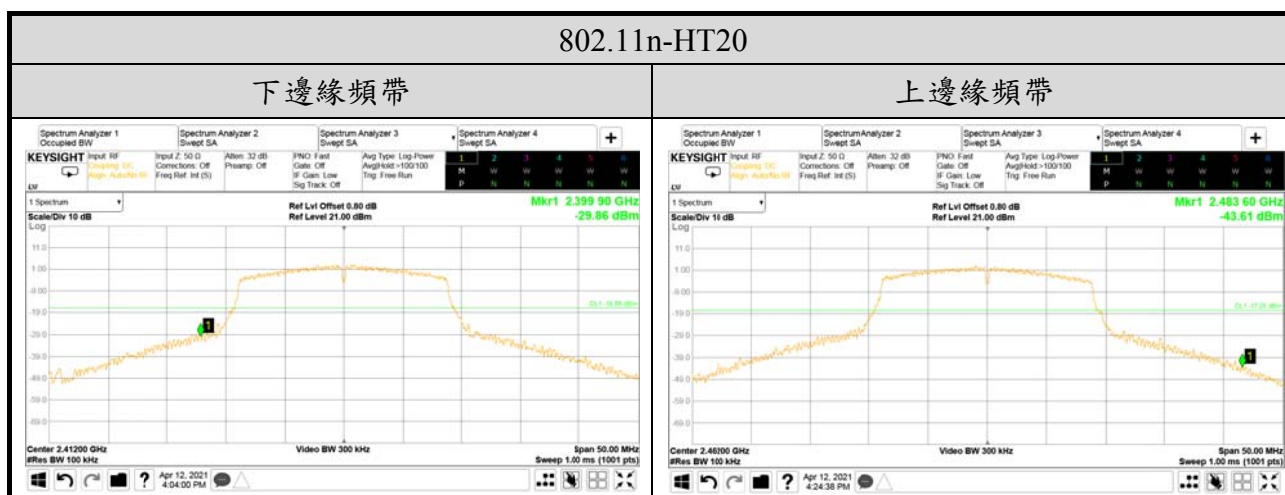
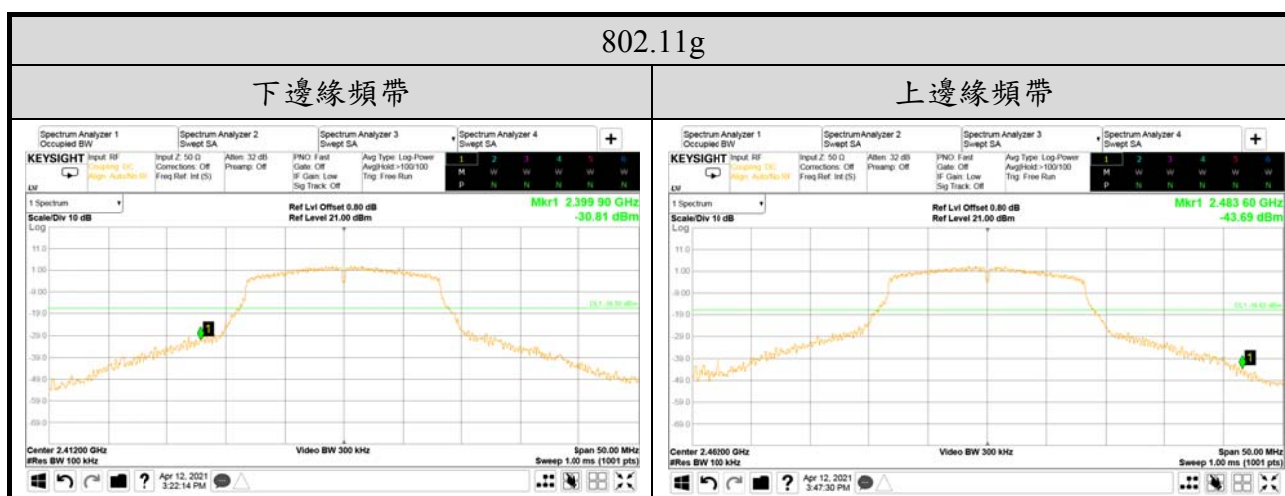
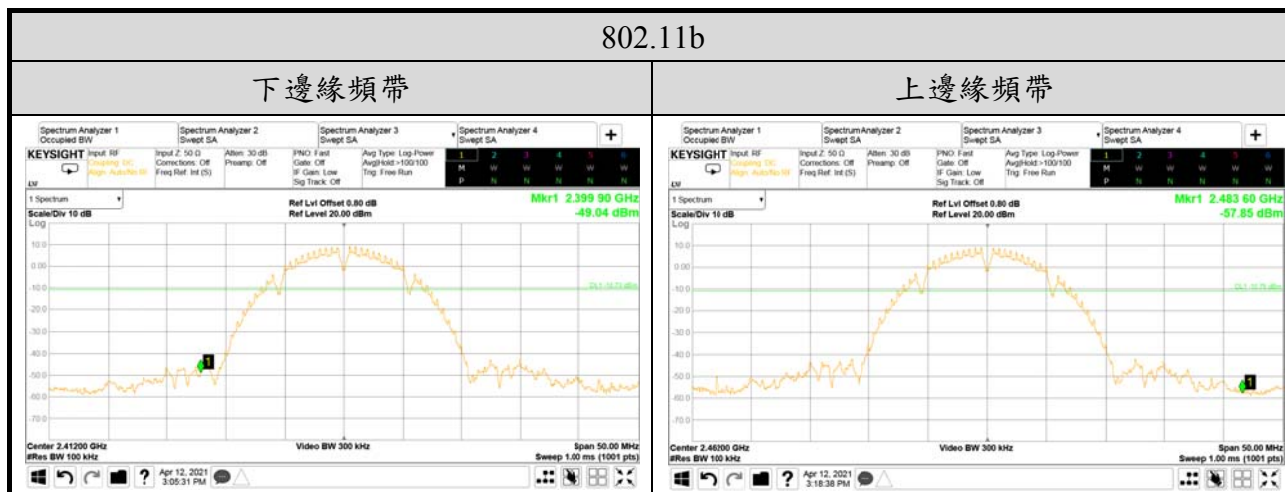
4.2. 平均輸出功率(參考用)

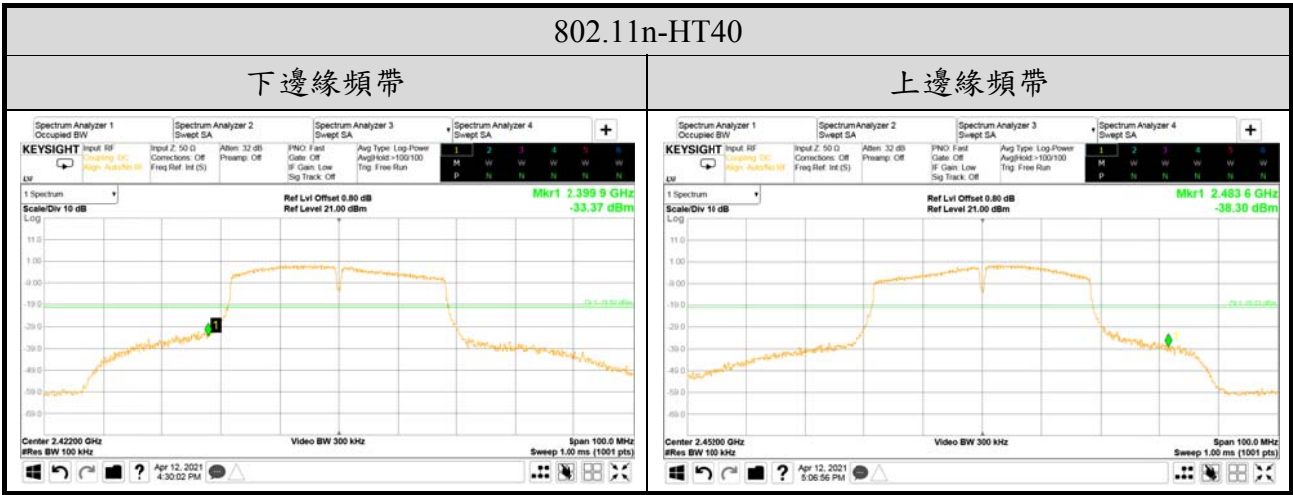
模式	測試頻率 (MHz)	Duty Cycle (X)	輸出功率			限制值 (dBm)
			輸出功率 (dBm)	10log(1/X)	Total 輸出功率 (dBm)	
802.11b	2412	1.000	10.42	N/A	10.42	30
	2437		10.39		10.39	
	2462		8.86		8.86	
802.11g	2412	1.000	10.56	N/A	10.56	
	2437		10.92		10.92	
	2462		9.24		9.24	
802.11n-HT20	2412	1.000	9.65	N/A	9.65	
	2437		10.06		10.06	
	2462		8.36		8.36	
802.11n-HT40	2422	0.974	8.55	0.11	8.66	
	2437		9.41		9.52	
	2452		7.66		7.77	

註：當 Duty cycle<98%，最大輸出功率必需要加上 duty cycle factor $10\log(1/x)$ 。(x=duty cycle)

5. 頻帶邊緣之 RF 傳導發射之量測

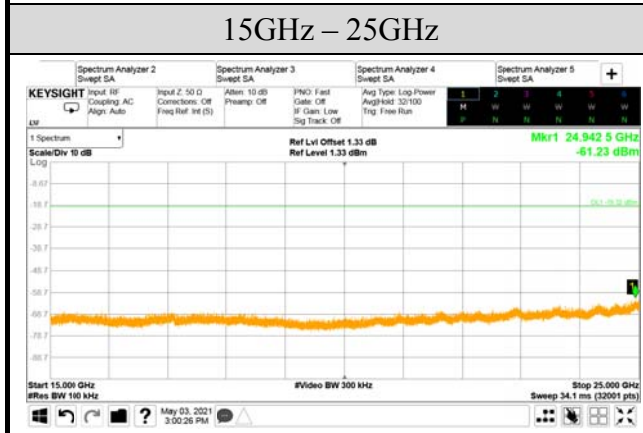
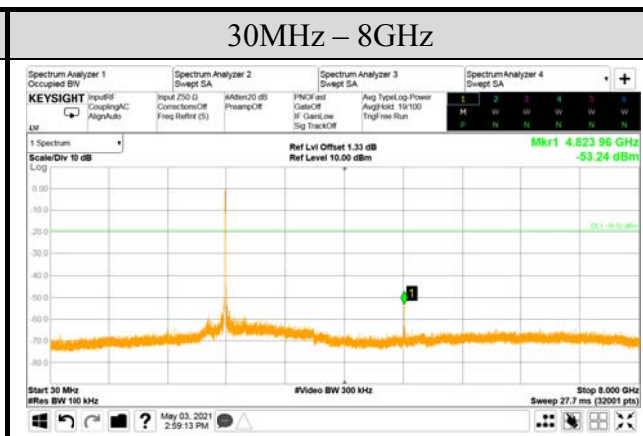
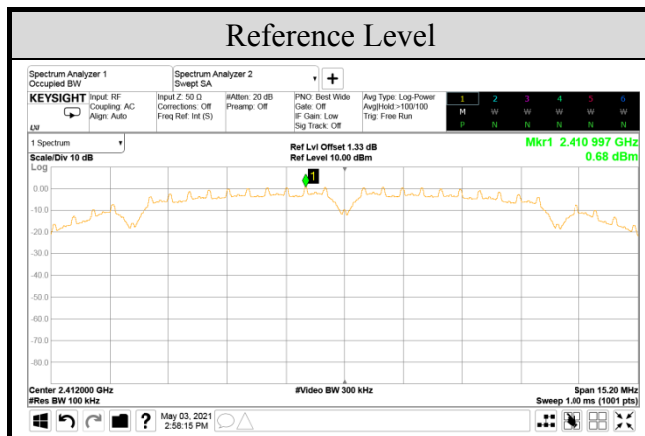
測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	測試人員	Sean Wang
測試電壓	DC 3.7V (經電池供電)		



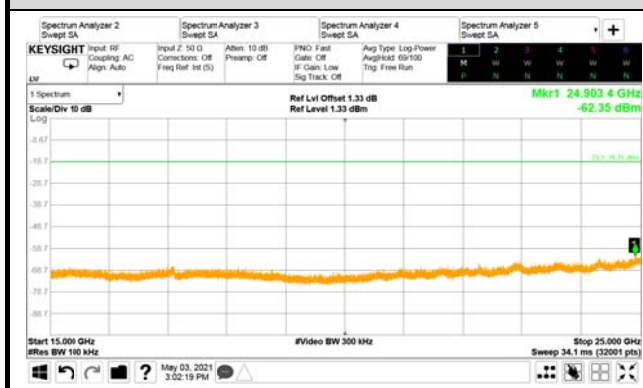
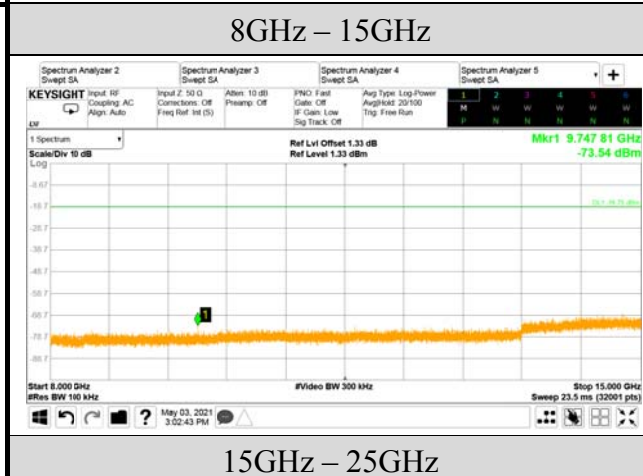
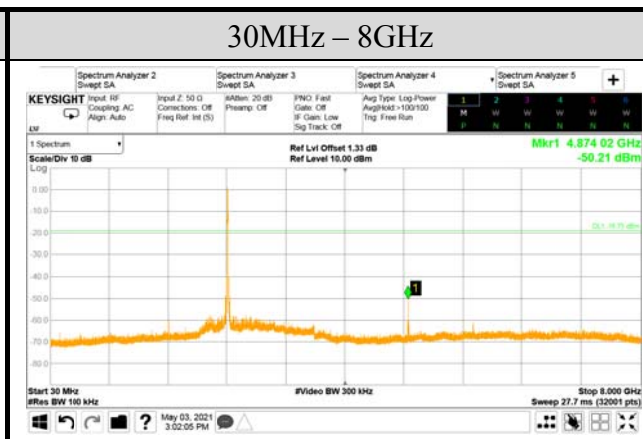
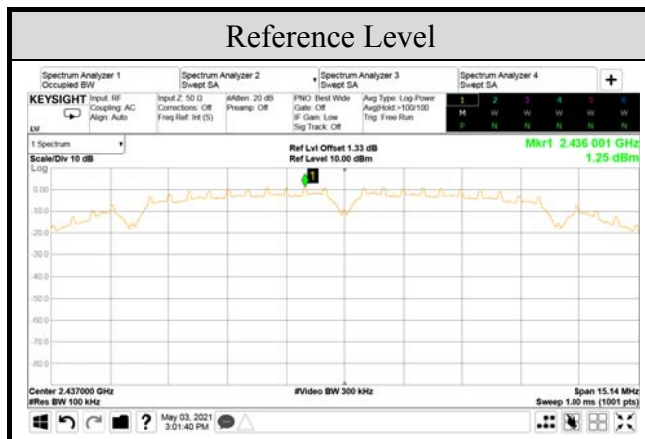


6. 混附發射之 RF 傳導發射之量測

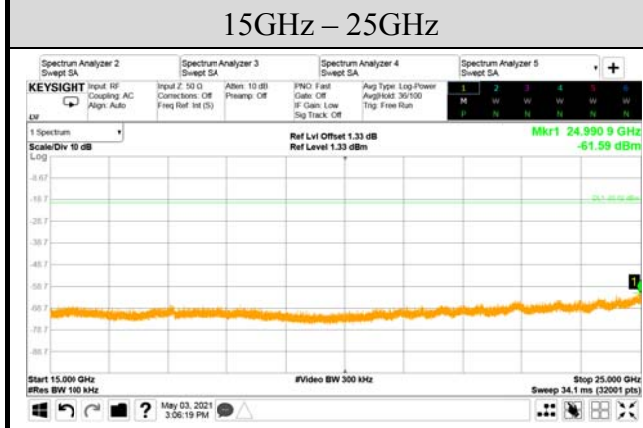
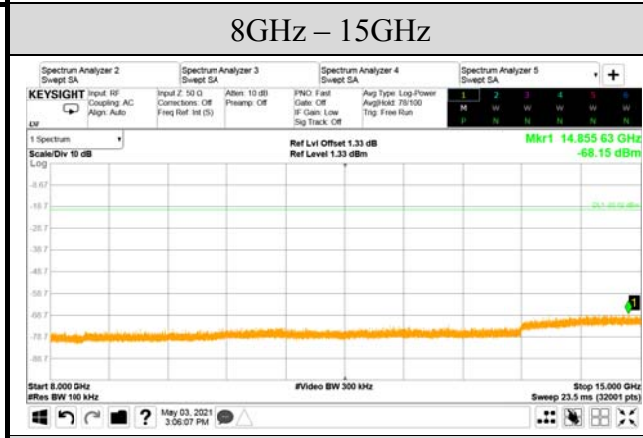
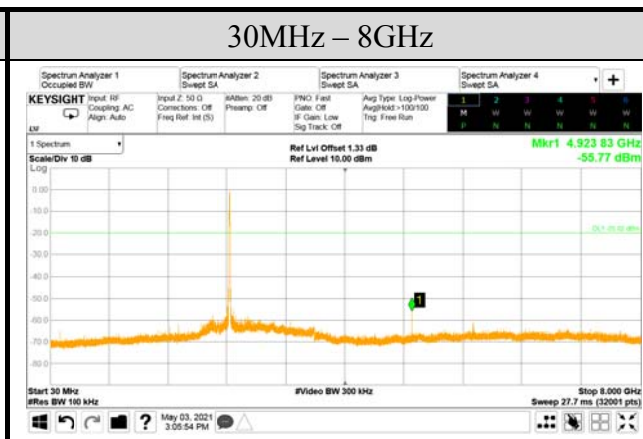
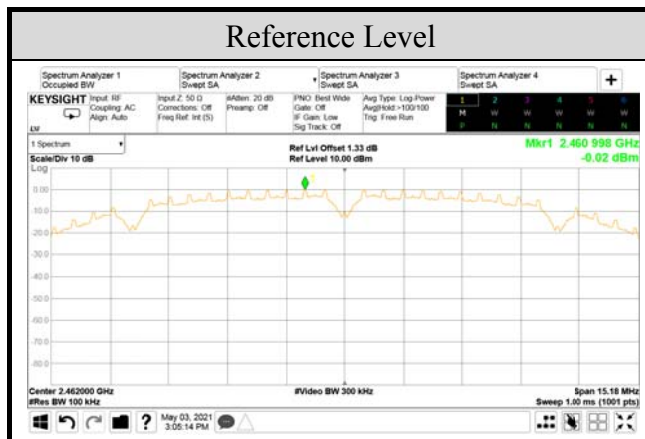
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11b
測試電壓	DC 3.7V (經電池供電)	測試頻率	2412MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



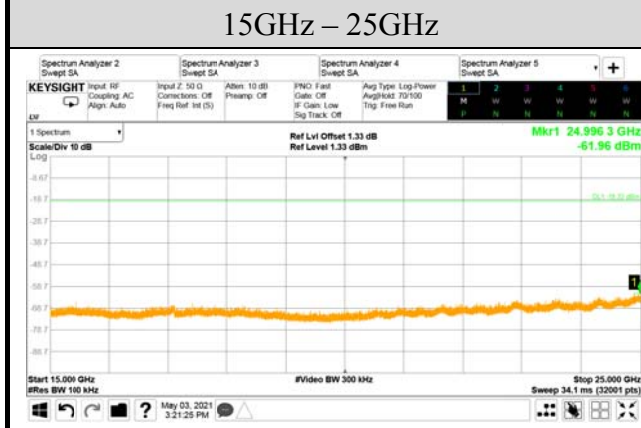
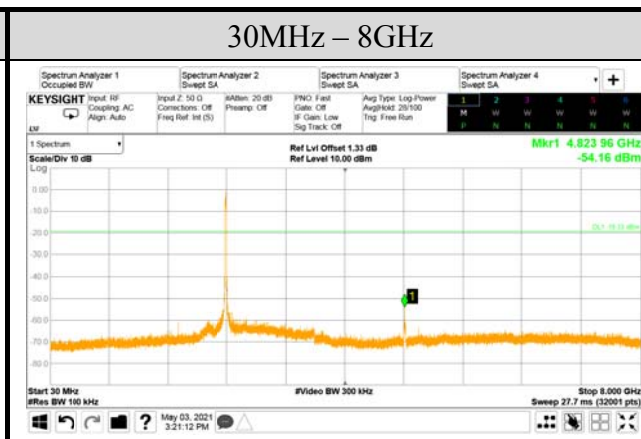
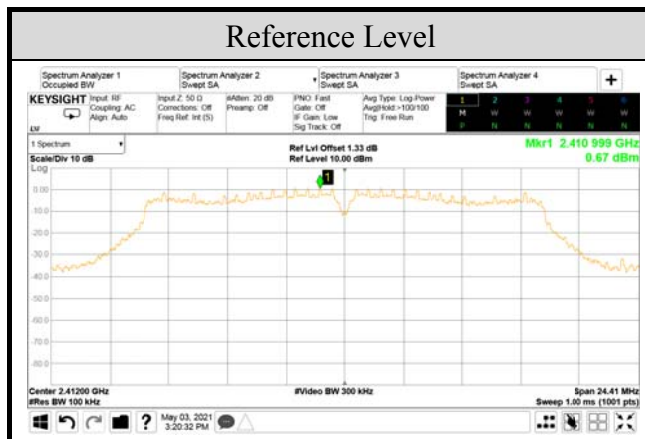
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11b
測試電壓	DC 3.7V (經電池供電)	測試頻率	2437MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



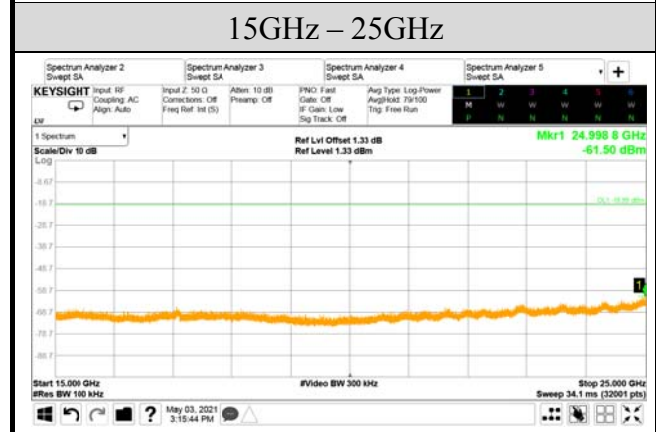
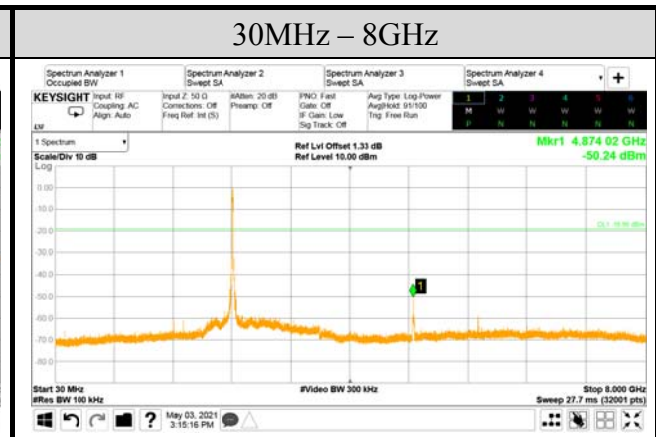
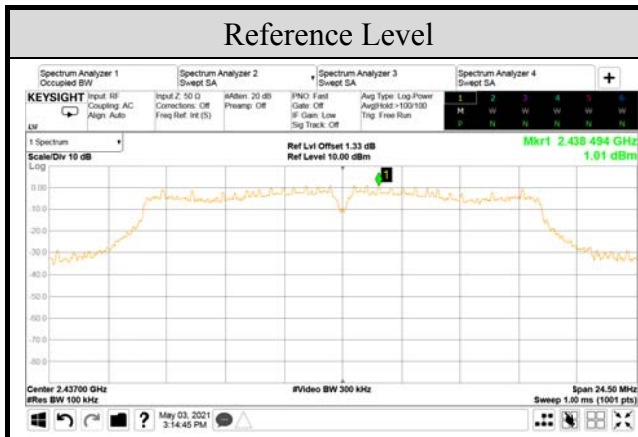
測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	模式	802.11b
測試電壓	DC 3.7V (經電池供電)	測試頻率	2462MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



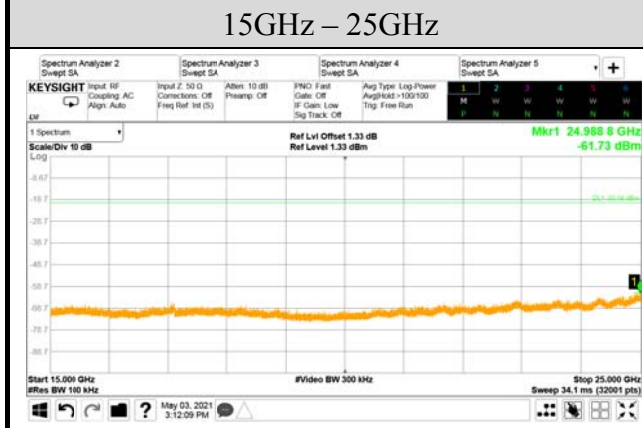
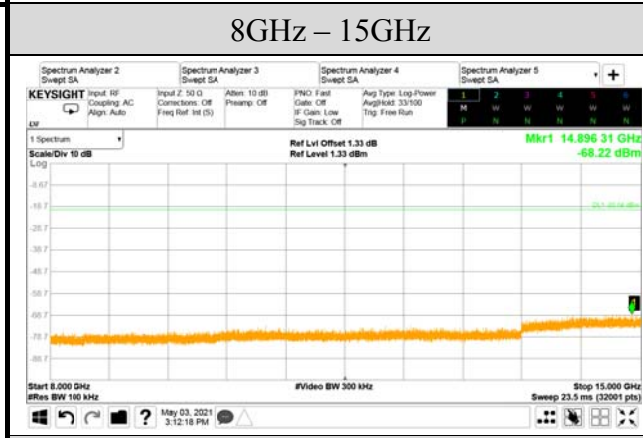
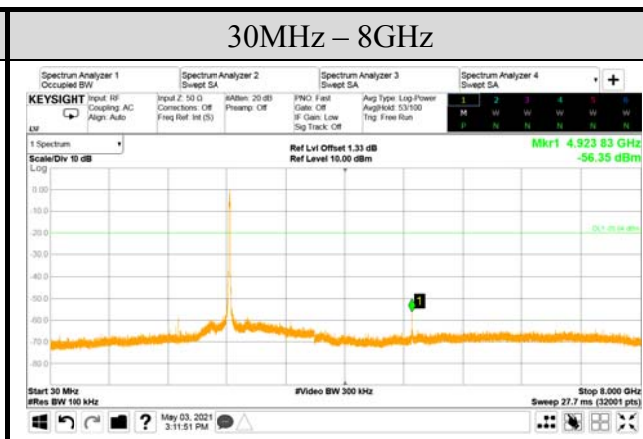
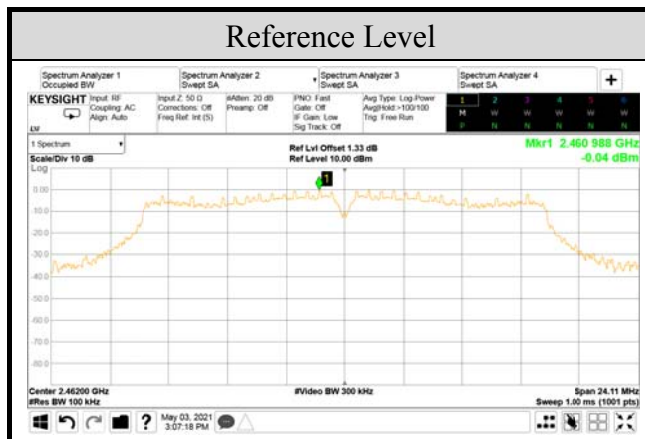
測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	模式	802.11g
測試電壓	DC 3.7V (經電池供電)	測試頻率	2412MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



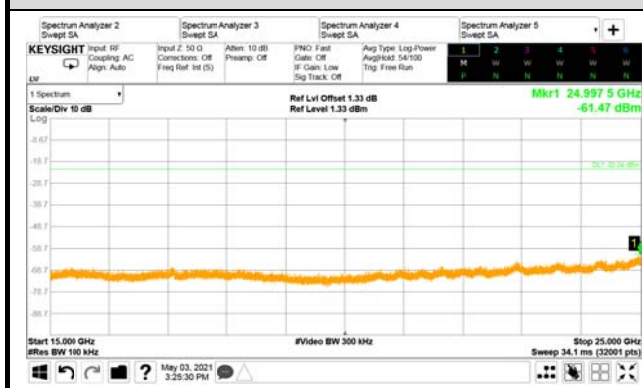
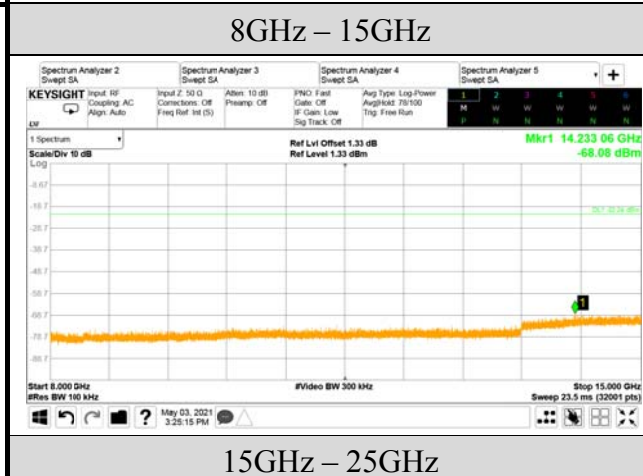
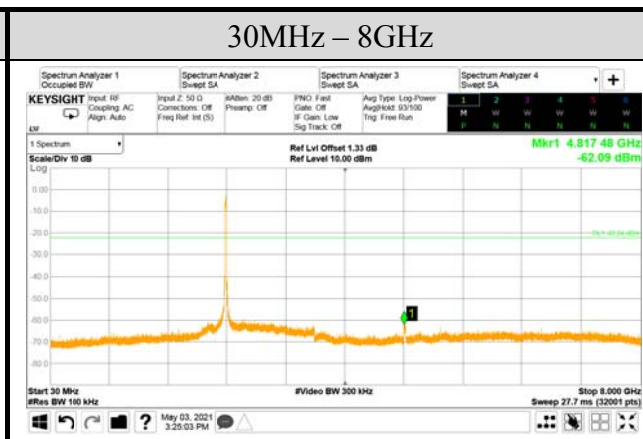
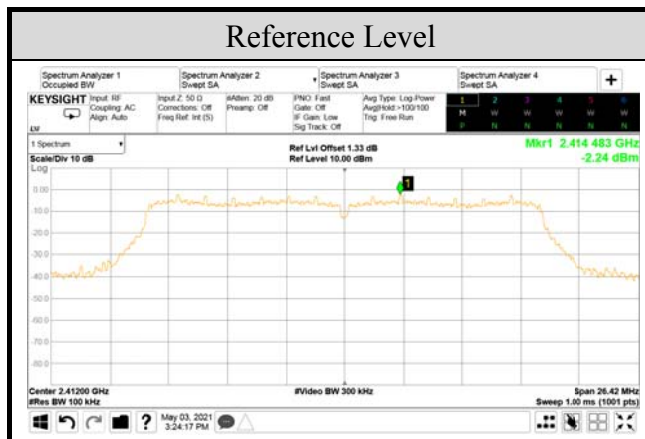
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11g
測試電壓	DC 3.7V (經電池供電)	測試頻率	2437MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



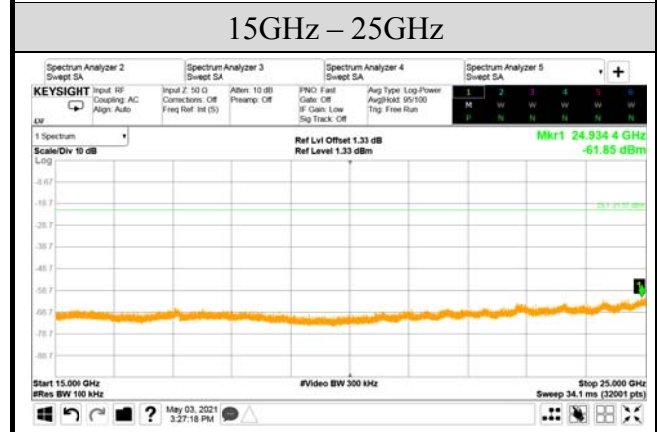
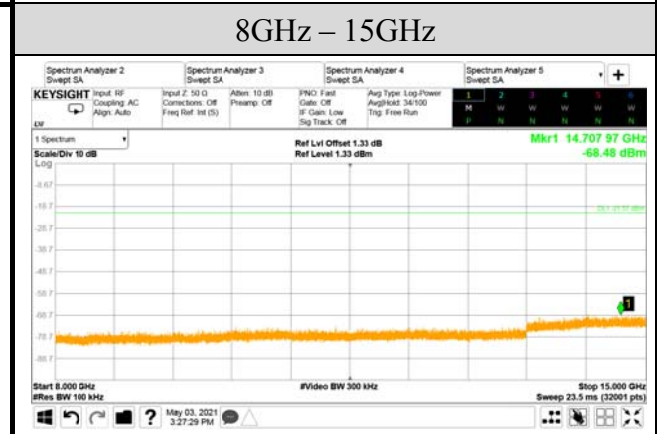
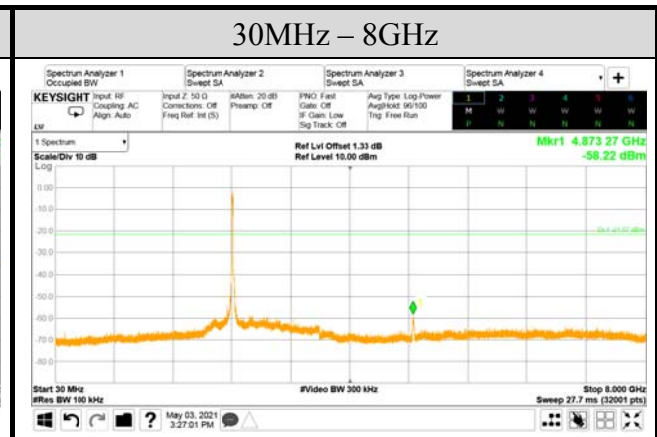
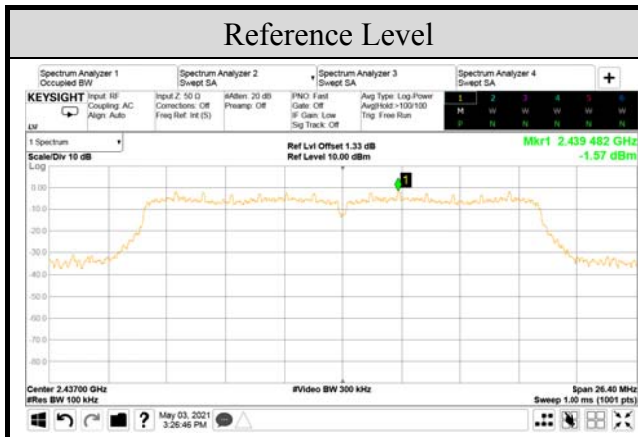
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11g
測試電壓	DC 3.7V (經電池供電)	測試頻率	2462MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



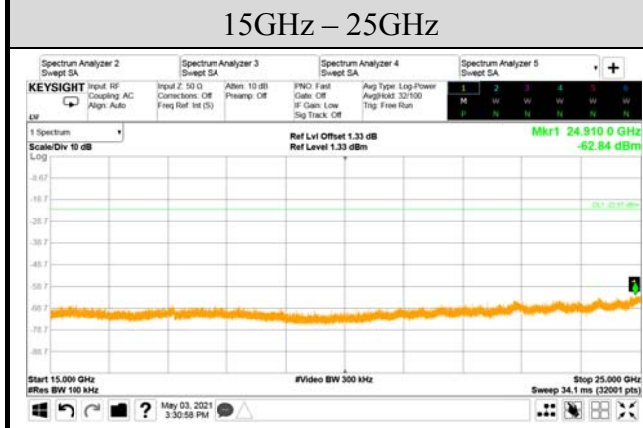
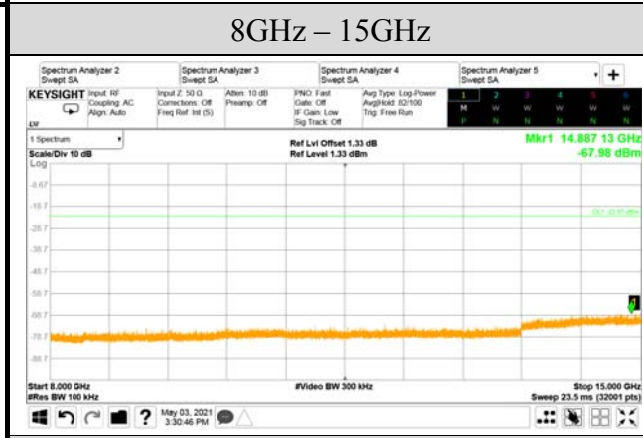
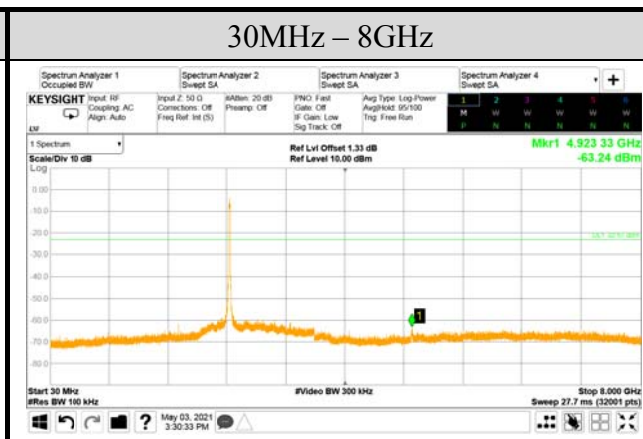
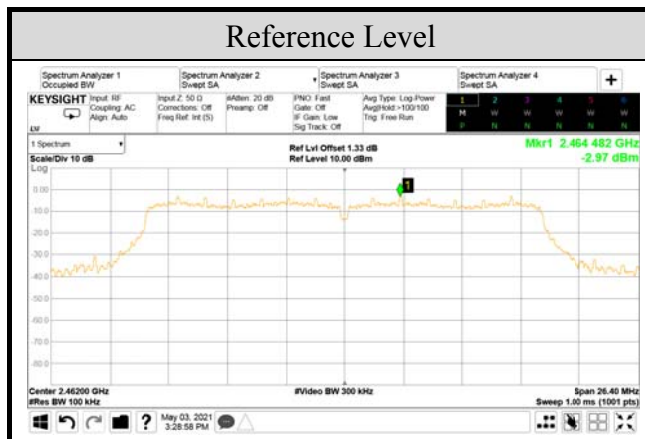
測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	模式	802.11n-HT20
測試電壓	DC 3.7V (經電池供電)	測試頻率	2412MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



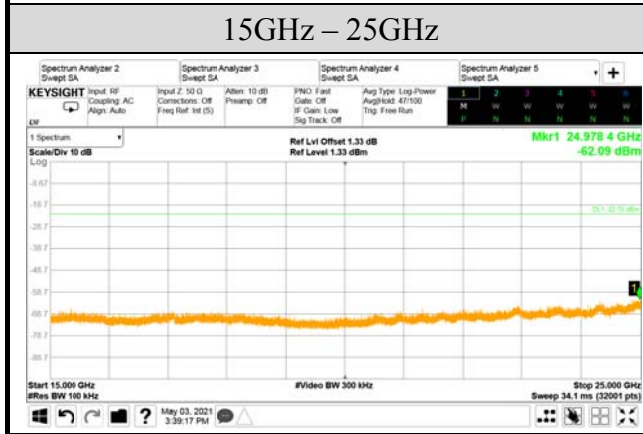
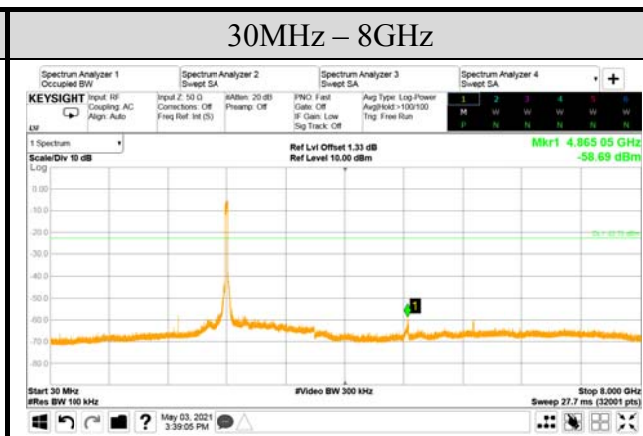
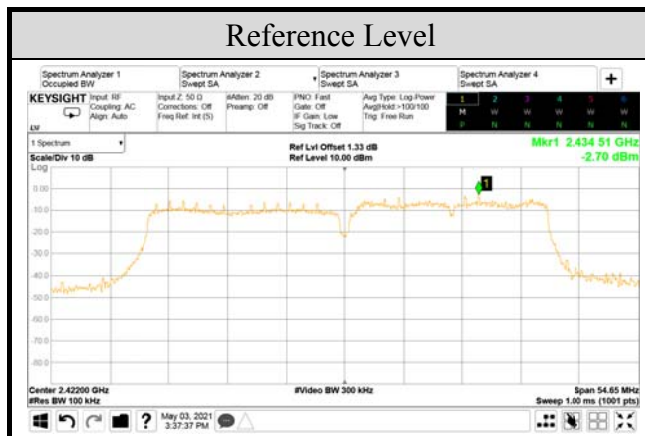
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11n-HT20
測試電壓	DC 3.7V (經電池供電)	測試頻率	2437MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



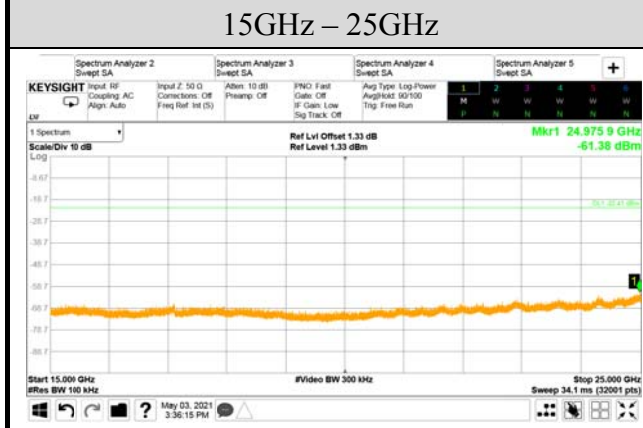
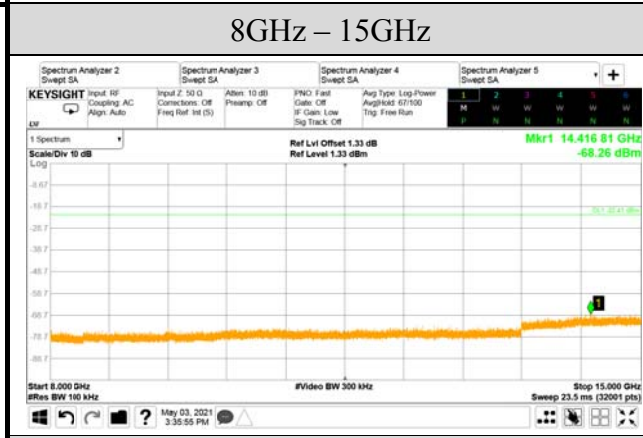
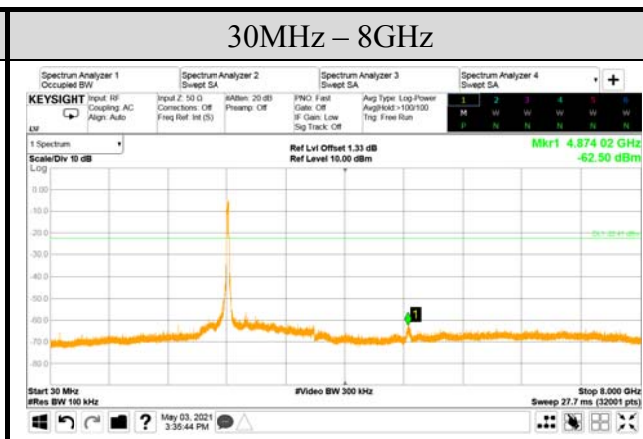
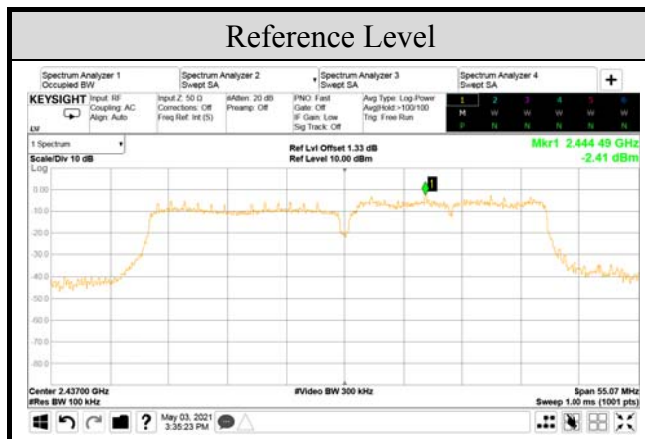
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11n-HT20
測試電壓	DC 3.7V (經電池供電)	測試頻率	2462MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



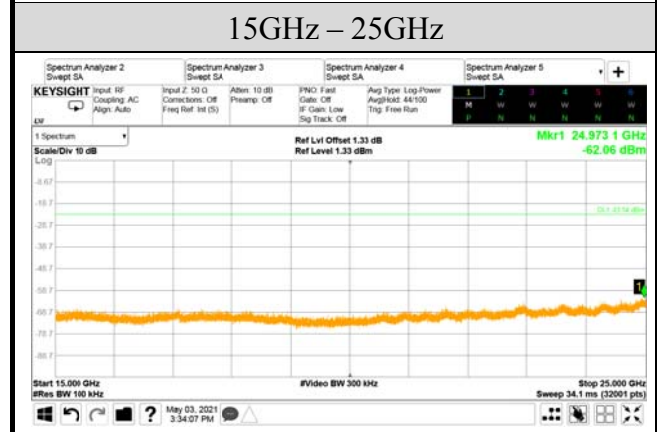
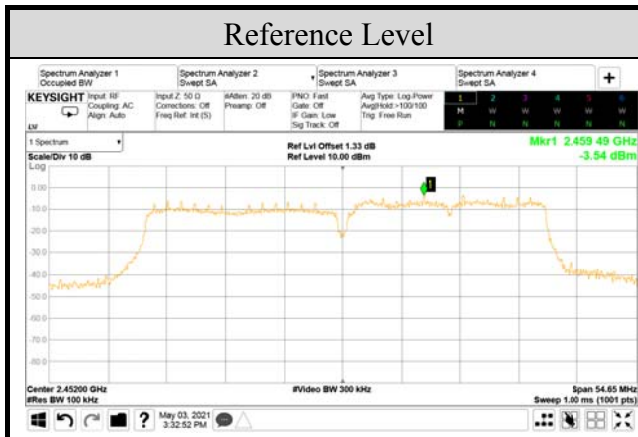
測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11n-HT40
測試電壓	DC 3.7V (經電池供電)	測試頻率	2422MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	模式	802.11n-HT40
測試電壓	DC 3.7V (經電池供電)	測試頻率	2437MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



測試日期	2021/05/03	環境溫/濕度	24℃/59%
電纜損失	1.33dB	模式	802.11n-HT40
測試電壓	DC 3.7V (經電池供電)	測試頻率	2452MHz
		測試人員	Sean Wang
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB



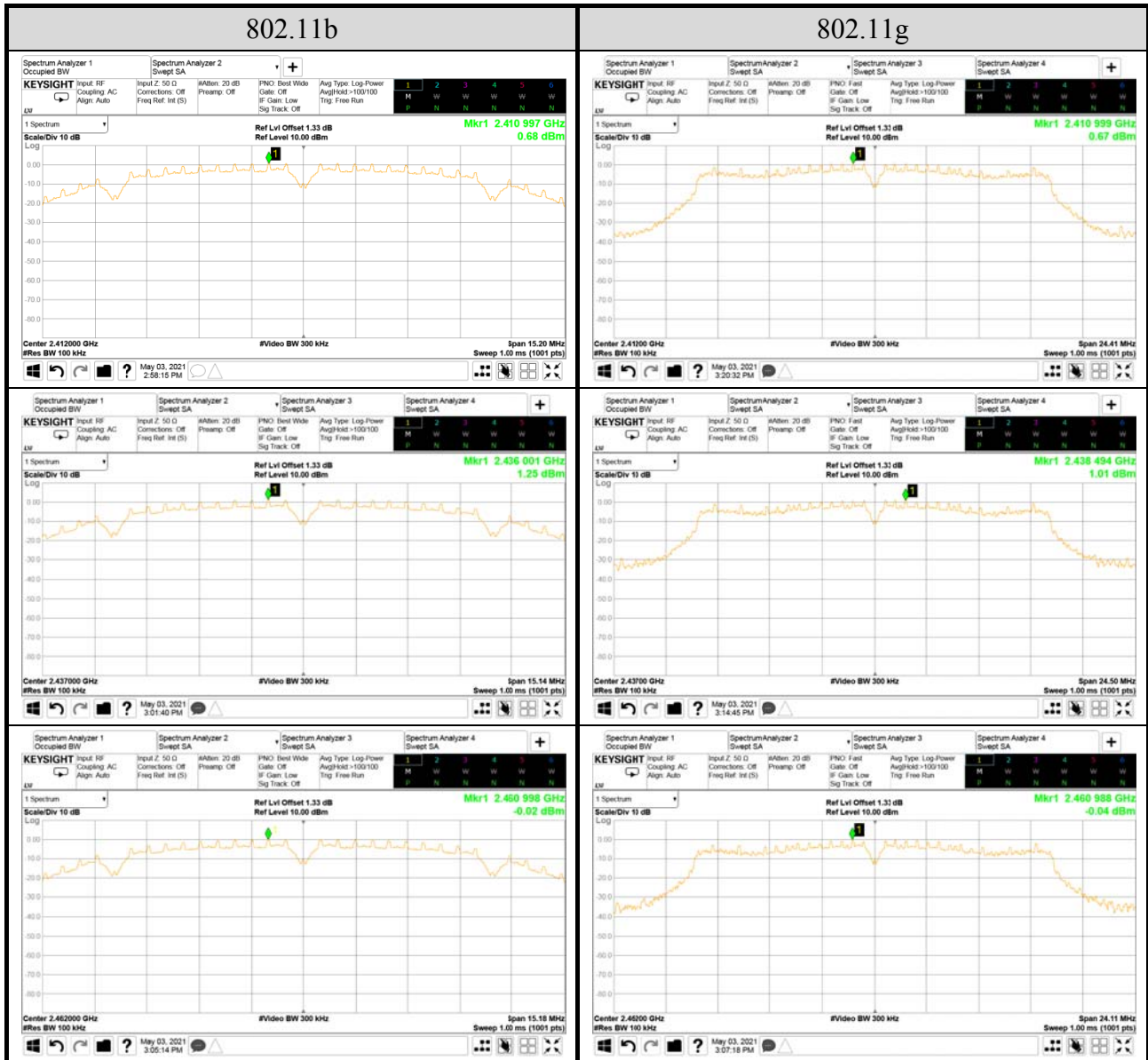
7. 功率密度之量測

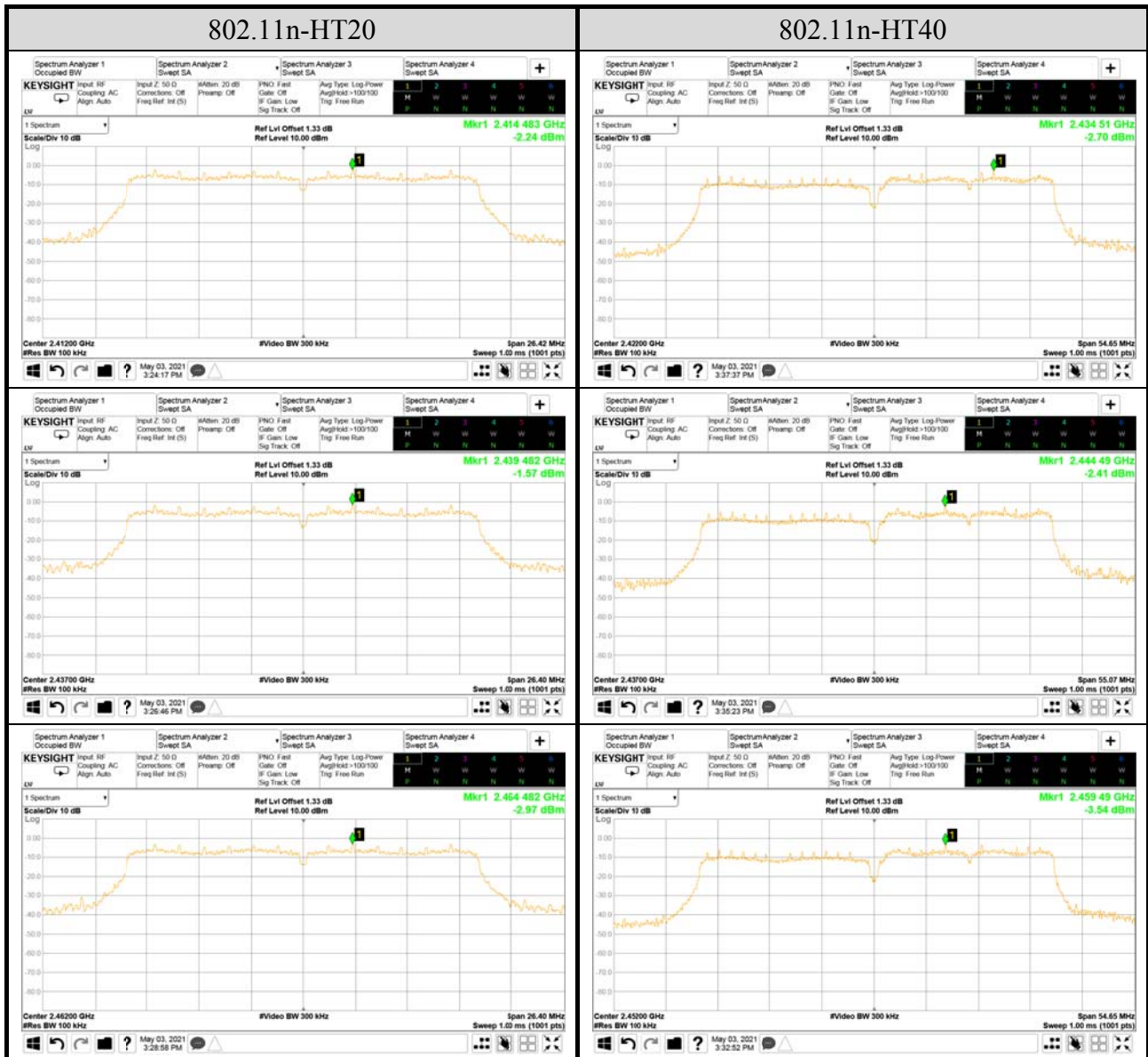
測試日期	2021/05/03	環境溫/濕度	24°C/59%
電纜損失	1.33dB	測試人員	Sean Wang
測試電壓	DC 3.7V (經電池供電)		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB

7.1. 功率密度

模式	測試頻率 (MHz)	功率密度 (dBm)	限制值 (dBm)
802.11b	2412	0.68	8
	2437	1.25	
	2462	-0.02	
802.11g	2412	0.67	
	2437	1.01	
	2462	-0.04	
802.11n-HT20	2412	-2.24	
	2437	-1.57	
	2462	-2.97	
802.11n-HT40	2422	-2.70	
	2437	-2.41	
	2452	-3.54	

7.2. 功率密度之量測圖





8. 電波暴露量之量測

測試日期	2021/04/27	環境溫/濕度	25°C/55%
測試電壓	DC 3.7V (經電池供電)	測試人員	Sean Wang

● WLAN 2.4G

距離人體(r):	20	cm	
最大發射功率(P):	23.35	dBm	= 216.272 mW
最大天線增益(G):	2.1	dB	= 1.622 Numerical
MPE (S) = (P*G) / (4* π *r ²) =	0.0698		mW/cm ²
註：1. 最大發射功率系指2.4GHz各模式/頻道中最大之發射功率功率。			
2. 電磁波曝露量MPE標準值1mW/cm ² ，送測產品實測值為：0.0698 mW/cm ²			

● WLAN 5G

距離人體(r):	20	cm	
最大發射功率(P):	9.98	dBm	= 9.954 mW
最大天線增益(G):	2.3	dB	= 1.698 Numerical
MPE (S) = (P*G) / (4* π *r ²) =	0.0034		mW/cm ²
註：1. 最大發射功率系指5GHz各模式/頻道中最大之發射功率功率。			
2. 電磁波曝露量MPE標準值1mW/cm ² ，送測產品實測值為：0.0034 mW/cm ²			