

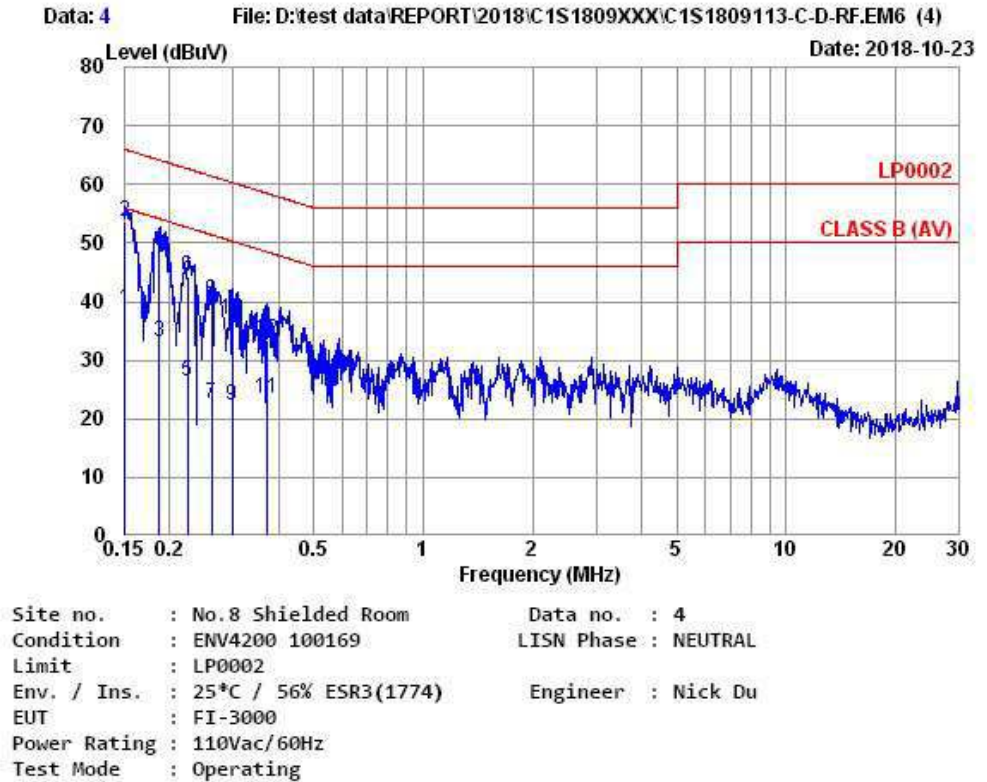
附錄 一

受測裝置之測試結果

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1. 電源線傳導干擾之量測

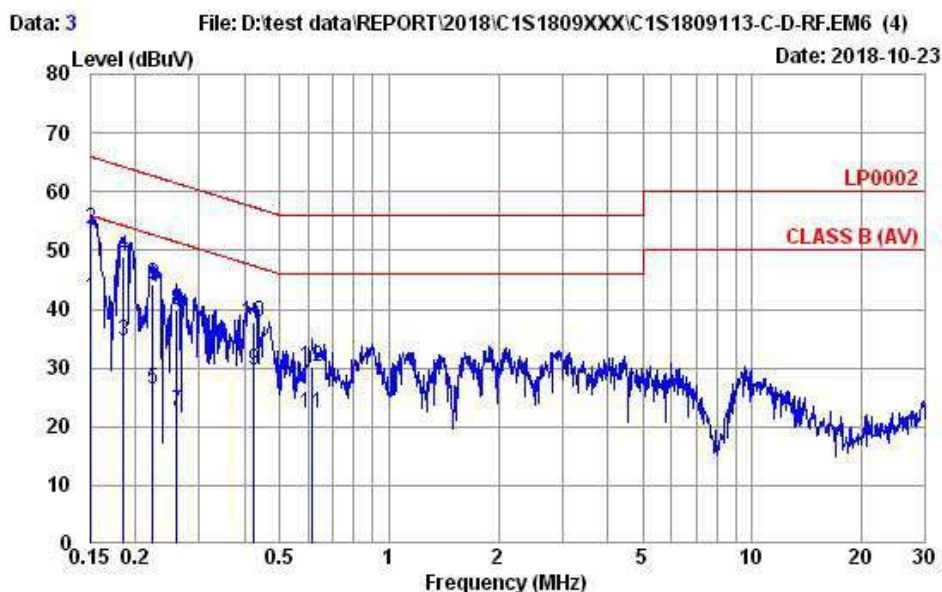
測試日期	2018/10/04	環境溫/濕度	23°C/55%
測試電壓	AC 110V/60Hz (USB 透過電源供應器供電)		



	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.57	0.03	9.98	17.97	38.55	55.96	17.41	Average
2	0.151	10.57	0.03	9.98	33.17	53.75	65.96	12.21	QP
3	0.187	10.53	0.03	9.98	12.46	33.00	54.15	21.15	Average
4	0.187	10.53	0.03	9.98	28.73	49.27	64.15	14.88	QP
5	0.224	10.50	0.03	9.98	5.95	26.46	52.66	26.20	Average
6	0.224	10.50	0.03	9.98	23.68	44.19	62.66	18.47	QP
7	0.262	10.48	0.03	9.98	2.16	22.65	51.38	28.73	Average
8	0.262	10.48	0.03	9.98	19.62	40.11	61.38	21.27	QP
9	0.299	10.47	0.04	9.98	1.66	22.15	50.28	28.13	Average
10	0.299	10.47	0.04	9.98	16.57	37.06	60.28	23.22	QP
11	0.371	10.44	0.04	9.98	3.02	23.48	48.47	24.99	Average
12	0.371	10.44	0.04	9.98	12.86	33.32	58.47	25.15	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

測試日期	2018/10/04	環境溫/濕度	23°C/55%
測試電壓	AC 110V/60Hz (USB 透過電源供應器供電)		



Site no. : No.8 Shielded Room
 Condition : ENV4200 100169
 Limit : LP0002
 Env. / Ins. : 25°C / 56% ESR3(1774)
 EUT : FI-3000
 Power Rating : 110Vac/60Hz
 Test Mode : Operating
 Data no. : 3
 LISN Phase : LINE
 Engineer : Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.63	0.03	9.98	21.34	41.98	55.96	13.98	Average
2	0.151	10.63	0.03	9.98	33.11	53.75	65.96	12.21	QP
3	0.185	10.58	0.03	9.98	14.01	34.60	54.24	19.64	Average
4	0.185	10.58	0.03	9.98	28.44	49.03	64.24	15.21	QP
5	0.223	10.54	0.03	9.98	5.88	26.43	52.70	26.27	Average
6	0.223	10.54	0.03	9.98	23.57	44.12	62.70	18.58	QP
7	0.260	10.52	0.03	9.98	2.16	22.69	51.42	28.73	Average
8	0.260	10.52	0.03	9.98	19.47	40.00	61.42	21.42	QP
9	0.424	10.45	0.04	9.98	9.18	29.65	47.37	17.72	Average
10	0.424	10.45	0.04	9.98	17.34	37.81	57.37	19.56	QP
11	0.614	10.45	0.05	9.98	1.92	22.40	46.00	23.60	Average
12	0.614	10.45	0.05	9.98	9.84	30.32	56.00	25.68	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

2. 場強輻射之量測

本裝置有兩種電源供應模式分別為電池(DC 3.6V)、電源供應器充電(DC 5V)，實驗室以單機(電池供電)先行評估平放、站立、側立三軸其中平放為最差模式，以低、中、高頻率來進行量測，並將下列測試模式之掃頻圖檢附於附錄中。另搭配電源供應器充電(DC 3.6V)執行充電模式，經評估充電模式不影響 1GHz 以上訊號結果，此模式僅呈現 30MHz-1GHz 測試結果於此份報告。所得讀值資料請見章節 2.1 ~2.2：

模式	動作狀態	基本頻率	量測頻率範圍
1	充電	---	30-1000MHz
Wireless LAN 測試模式 (802.11b)			
2	發射	2437MHz (CH6)	1000-3000MHz
3			3000-8000MHz
4			8000-18000MHz
5			18000-25000MHz
Wireless LAN 測試模式 (802.11g)			
6	發射	2437MHz (CH6)	1000-3000MHz
7			3000-8000MHz
8			8000-18000MHz
9			18000-25000MHz
Wireless LAN 測試模式 (802.11n-HT20)			
10	發射	2437MHz* (CH6)	30-1000MHz
11			1000-3000MHz
12			3000-8000MHz
13			8000-18000MHz
14			18000-25000MHz
Wireless LAN 測試模式			
15	接收	2437MHz (CH6)	30-1000MHz
16			1000-3000MHz
17			3000-8000MHz
18			8000-18000MHz
19			18000-25000MHz

註: 1.以上所有模式之掃頻圖是檢附於附錄中。

2.*: 經評估後，以最差頻率進行 30-1000MHz 量測。

對受測物裝置落於技術規範第 2.7 章節的禁用頻率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	動作狀態	基本頻率	量測頻率範圍
Wireless LAN 測試模式 (802.11b)			
1	發射	2412MHz (CH1)	2310-2430MHz
2		2462MHz (CH11)	2450-2530MHz
Wireless LAN 測試模式 (802.11g)			
3	發射	2412MHz (CH1)	2310-2430MHz
4		2462MHz (CH11)	2450-2530MHz
Wireless LAN 測試模式 (802.11n-HT20)			
5	發射	2412MHz (CH1)	2310-2430MHz
6		2462MHz (CH11)	2450-2530MHz

測試日期	2018/11/14	環境溫/濕度	24°C/53%
測試電壓	AC 110V/60Hz (透過電源供應器供電)		

2.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	充電	Frequency	---
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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
140.5800	17.78	2.73	22.44	42.95	43.50	0.55	Peak
195.8700	15.86	3.66	21.50	41.02	43.50	2.48	QP
237.5800	18.59	3.90	22.50	44.99	46.00	1.01	QP
292.8700	19.45	4.24	12.16	35.85	46.00	10.15	Peak
385.9900	21.76	5.41	9.55	36.72	46.00	9.28	Peak
439.3400	22.51	5.91	7.68	36.10	46.00	9.90	Peak

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
48.4300	15.38	1.54	16.95	33.87	40.00	6.13	Peak
143.4900	17.61	3.32	21.40	42.33	43.50	1.17	QP
197.8100	15.72	3.32	23.33	42.37	43.50	1.13	Peak
238.5500	18.64	3.91	22.40	44.95	46.00	1.05	QP
387.9300	21.79	5.42	7.09	34.30	46.00	11.70	Peak
437.4000	22.49	5.90	9.40	37.79	46.00	8.21	Peak

測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)		

2.2. 30-1000MHz 頻率範圍，其他不必要發射量測

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)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.8800	22.81	1.29	3.21	27.31	40.00	12.69	Peak
142.5200	17.63	2.75	7.84	28.22	43.50	15.28	Peak
350.1000	20.87	4.98	6.77	32.62	46.00	13.38	Peak
524.7000	23.54	6.51	2.98	33.03	46.00	12.97	Peak
861.2900	26.47	7.95	2.18	36.60	46.00	9.40	Peak
983.5100	27.66	8.72	1.68	38.06	54.00	15.94	Peak

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
37.7600	20.76	1.36	2.92	25.04	40.00	14.96	Peak
116.3300	18.59	2.46	6.71	27.76	43.50	15.74	Peak
320.0300	20.06	4.58	6.63	31.27	46.00	14.73	Peak
585.8100	24.44	6.71	2.19	33.34	46.00	12.66	Peak
809.8800	26.02	7.67	2.70	36.39	46.00	9.61	Peak
980.6000	27.63	8.70	2.29	38.62	54.00	15.38	Peak

Mode	Wireless LAN	Frequency	RX 2437MHz
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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
30.9700	24.27	1.22	1.59	27.08	40.00	12.92	Peak
167.7400	15.98	3.01	13.15	32.14	43.50	11.36	Peak
242.4300	18.68	3.74	7.39	29.81	46.00	16.19	Peak
350.1000	20.87	4.98	6.73	32.58	46.00	13.42	Peak
809.8800	26.02	7.67	1.80	35.49	46.00	10.51	Peak
977.6900	27.63	8.70	1.81	38.14	54.00	15.86	Peak

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
116.3300	18.59	2.46	4.54	25.59	43.50	17.91	Peak
251.1600	19.17	3.82	3.71	26.70	46.00	19.30	Peak
329.7300	20.34	4.72	5.88	30.94	46.00	15.06	Peak
578.0500	24.35	6.69	2.94	33.98	46.00	12.02	Peak
876.8100	26.62	8.05	2.00	36.67	46.00	9.33	Peak
987.3900	27.69	8.74	2.04	38.47	54.00	15.53	Peak

2.3. 1000MHz 以上頻率範圍，其他不必要發射量測

Mode	802.11b	Frequency	TX 2437MHz
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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
4874.0000	34.25	9.56	-2.88	40.93	54.00	13.07	Peak
6500.0000	36.10	11.33	3.40	50.83	54.00	3.17	Peak

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
4874.0000	34.25	9.56	0.32	44.13	54.00	9.87	Peak
6500.0000	36.10	11.33	5.49	52.92	54.00	1.08	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)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.0000	34.25	9.56	-1.75	42.06	54.00	11.94	Peak
6500.0000	36.10	11.33	3.45	50.88	54.00	3.12	Peak

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
4874.0000	34.25	9.56	-1.86	41.95	54.00	12.05	Peak
6500.0000	36.10	11.33	3.02	50.45	54.00	3.55	Average
6500.0000	36.10	11.33	6.95	54.38	74.00	19.62	Peak

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

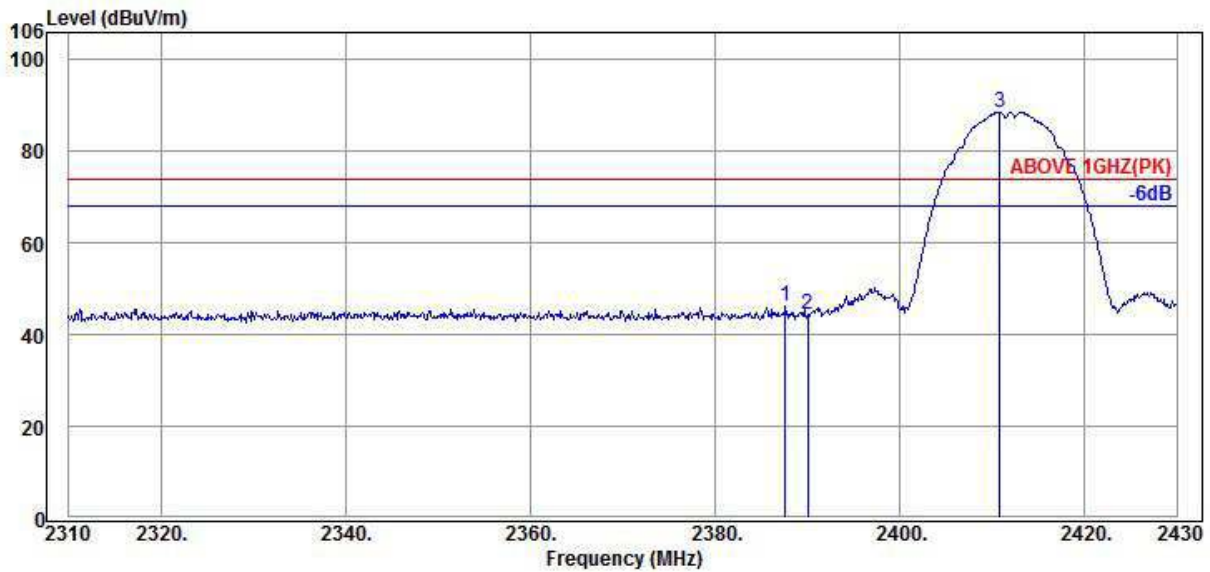
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4874.0000	34.25	9.56	-2.00	41.81	54.00	12.19	Peak
6500.0000	36.10	11.33	3.02	50.45	54.00	3.55	Peak

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
4874.0000	34.25	9.56	-1.30	42.51	54.00	11.49	Peak
6500.0000	36.10	11.33	5.65	53.08	54.00	0.92	Peak

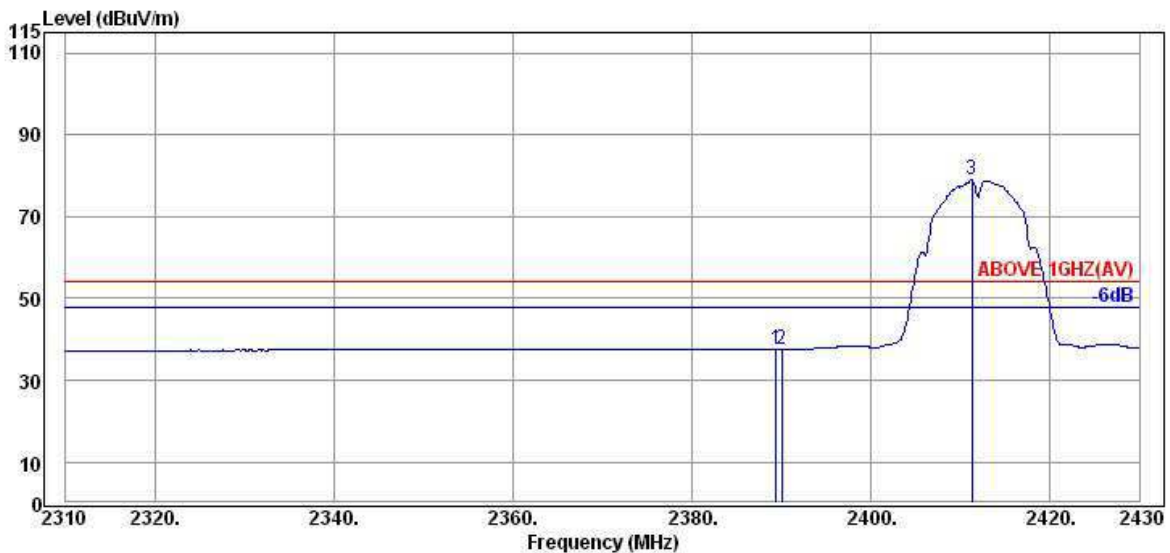
2.4. 禁用頻帶量測結果 (其他不必要發射)

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.6400	32.16	6.57	7.60	46.33	74.00	27.67	Peak
2390.0400	32.16	6.57	5.55	44.28	74.00	29.72	Peak
@ 2410.8000	32.18	6.59	49.86	88.63	---	---	Peak

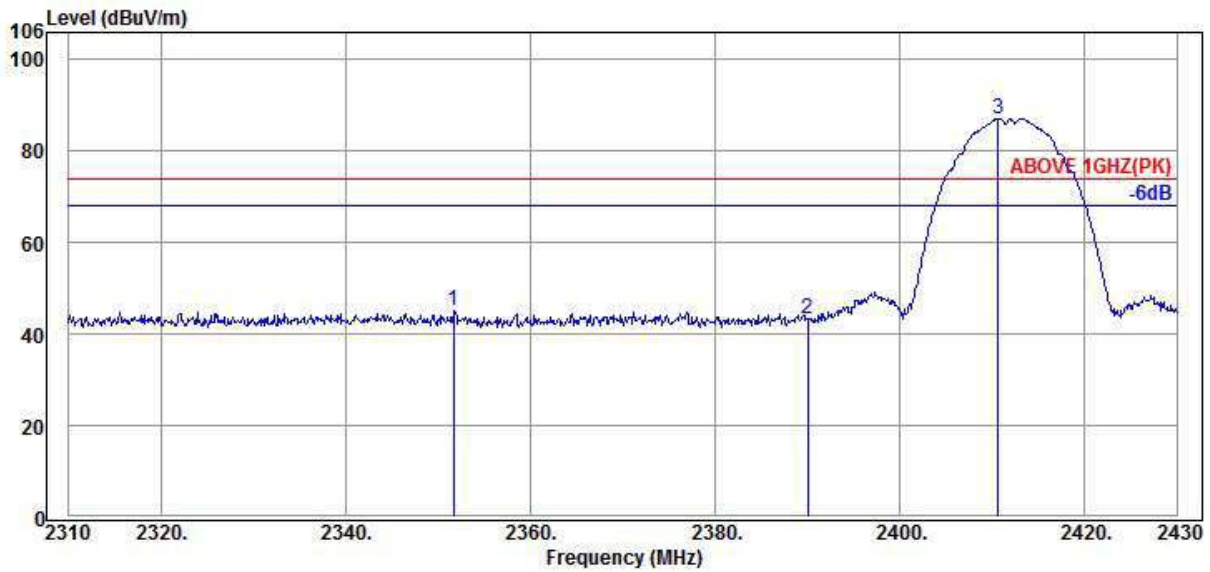


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.5600	32.16	6.57	-6.33	32.40	54.00	21.60	Average
2390.0400	32.16	6.57	-6.41	32.32	54.00	21.68	Average
@ 2411.2800	32.18	6.59	46.41	85.18	---	---	Average

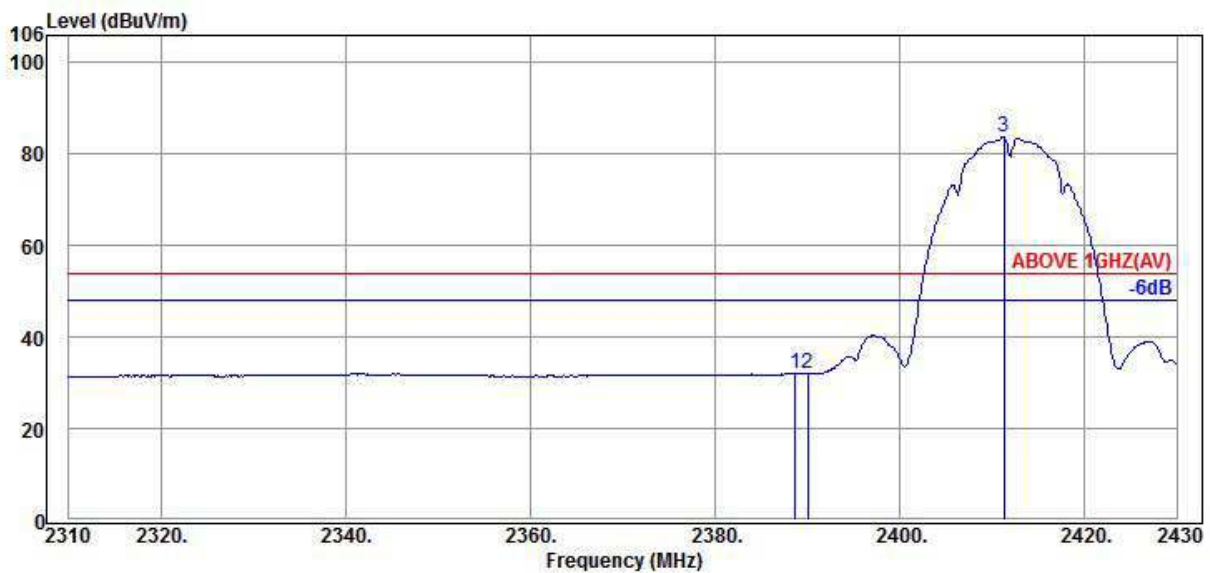
備註: “@”為主波，在此章節是不予以判定。

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2351.6400	32.11	6.53	6.61	45.25	74.00	28.75	Peak
2390.0400	32.16	6.57	4.49	43.22	74.00	30.78	Peak
@ 2410.6800	32.18	6.59	48.35	87.12	---	---	Peak

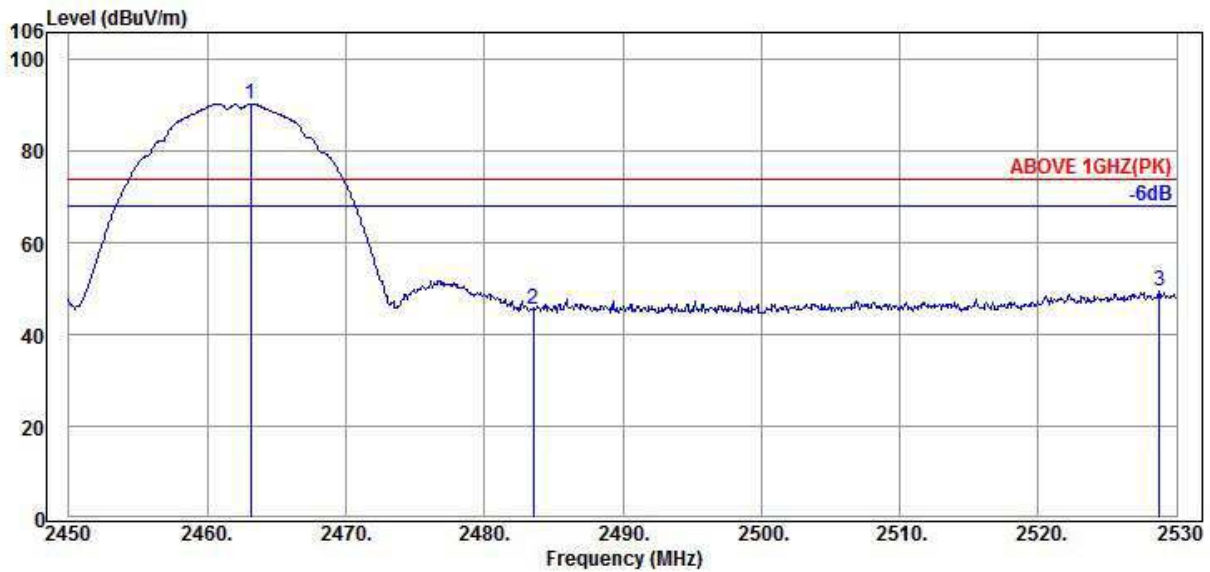


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.7200	32.16	6.57	-6.60	32.13	54.00	21.87	Average
2390.0400	32.16	6.57	-6.65	32.08	54.00	21.92	Average
@ 2411.2800	32.18	6.59	45.05	83.82	---	---	Average

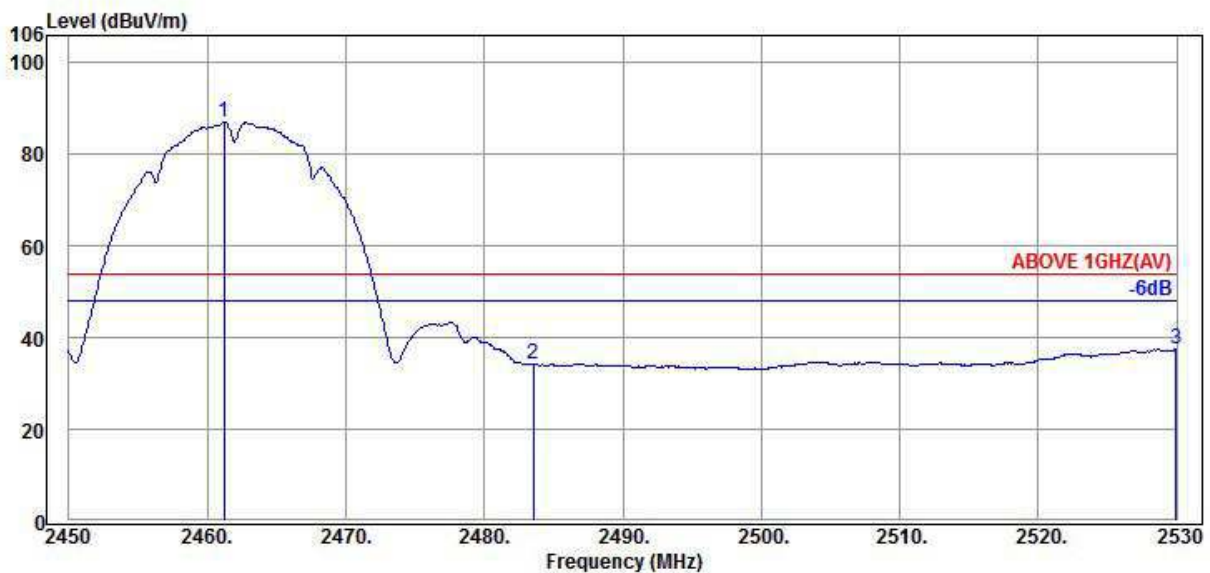
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2463.1200	32.25	6.65	51.53	90.43	---	---	Peak
	2483.5200	32.28	6.67	6.65	45.60	74.00	28.40	Peak
	2528.7200	32.34	6.74	10.41	49.49	74.00	24.51	Peak

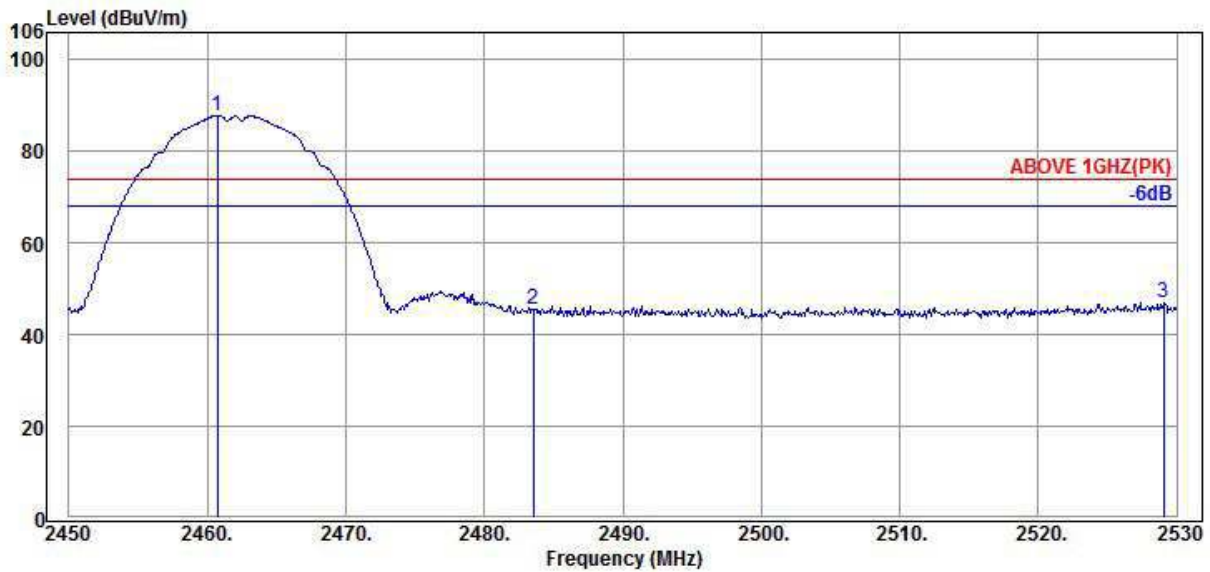


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2461.2000	32.25	6.65	48.10	87.00	---	---	Average
	2483.5200	32.28	6.67	-4.81	34.14	54.00	19.86	Average
	2529.9200	32.34	6.74	-1.63	37.45	54.00	16.55	Average

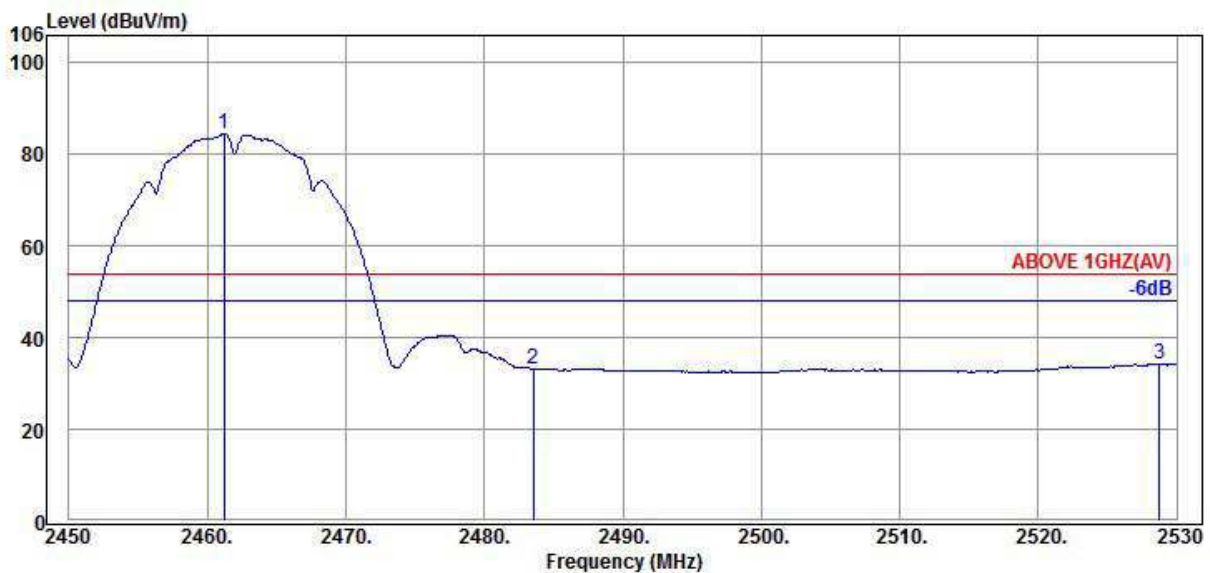
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.7200	32.25	6.65	48.96	87.86	---	---	Peak
2483.5200	32.28	6.67	6.47	45.42	74.00	28.58	Peak
2529.0400	32.34	6.74	8.00	47.08	74.00	26.92	Peak

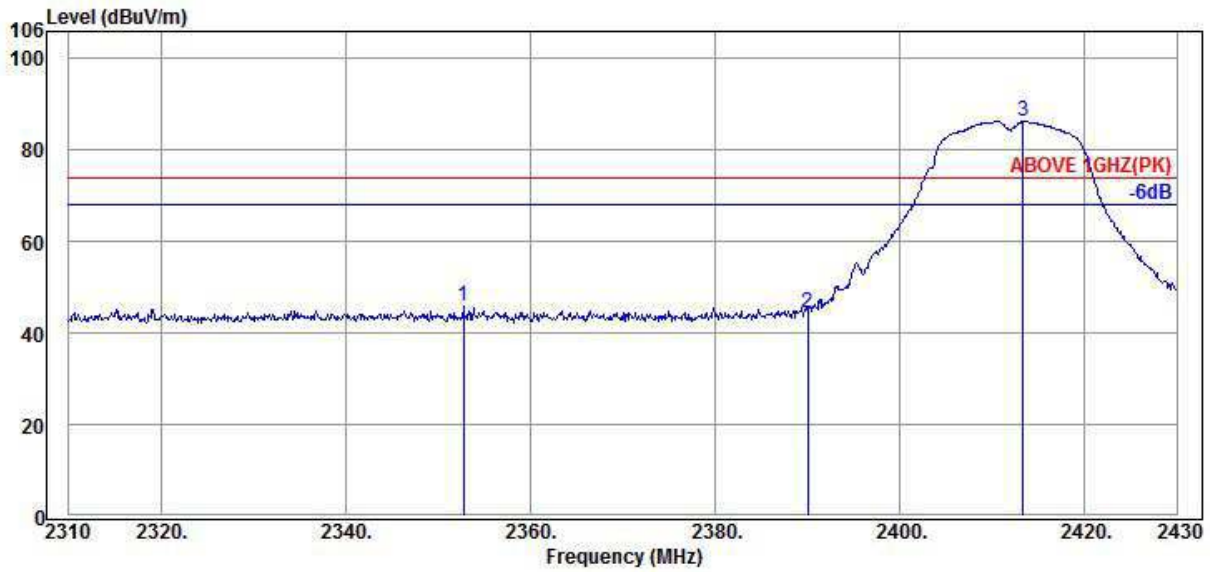


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.2000	32.25	6.65	45.62	84.52	---	---	Average
2483.5200	32.28	6.67	-5.74	33.21	54.00	20.79	Average
2528.7200	32.34	6.74	-4.85	34.23	54.00	19.77	Average

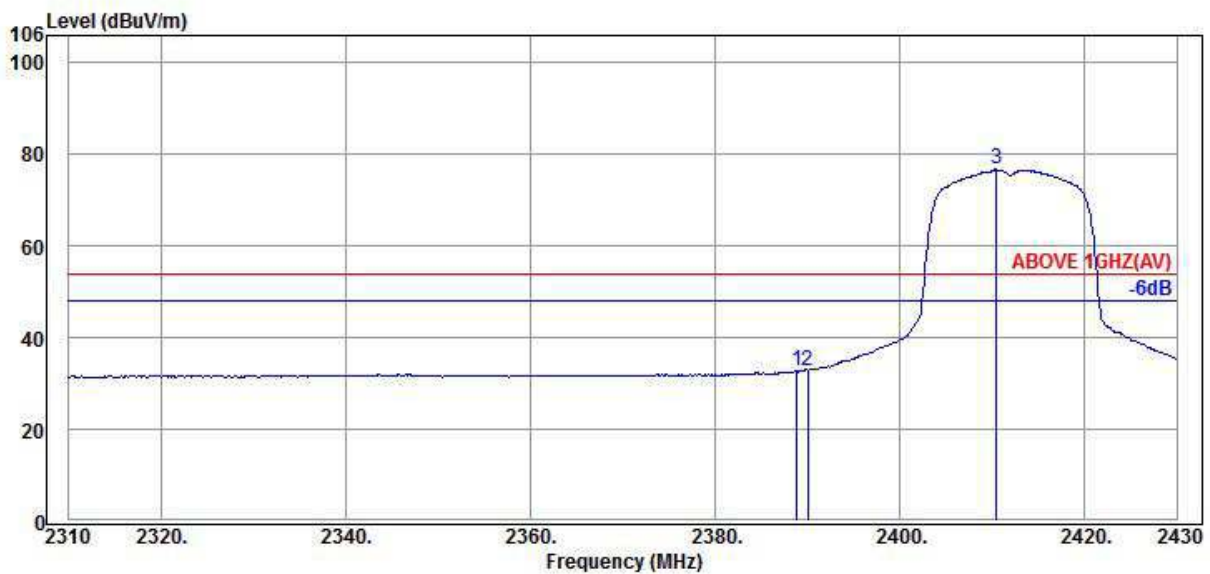
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2352.7200	32.11	6.53	7.08	45.72	74.00	28.28	Peak
2390.0400	32.16	6.57	5.76	44.49	74.00	29.51	Peak
@ 2413.3200	32.18	6.59	47.56	86.33	---	---	Peak

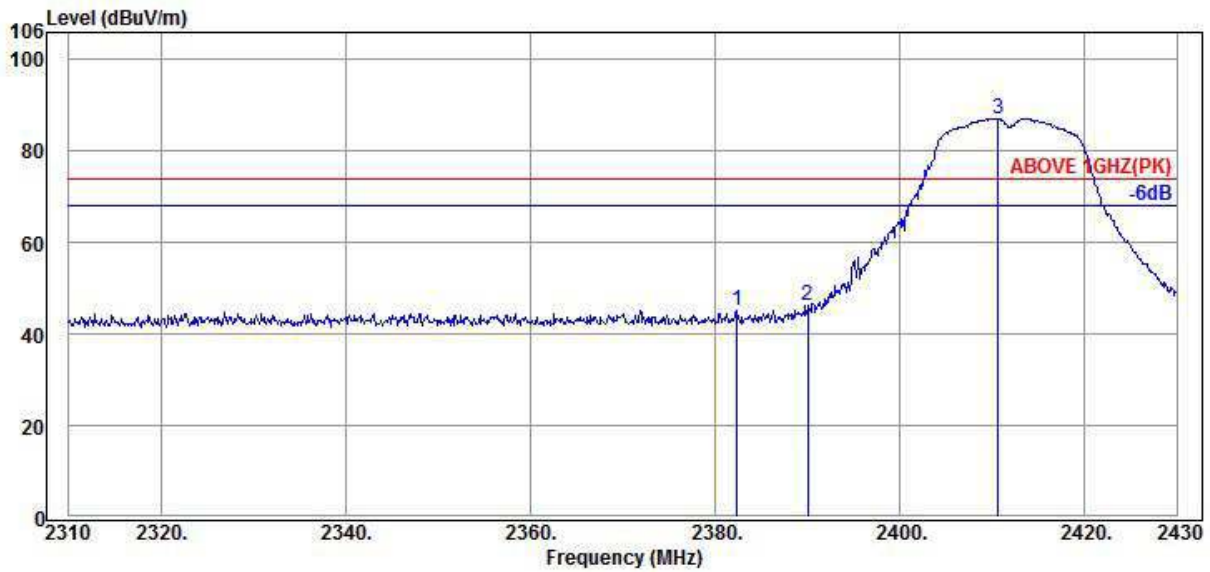


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.8400	32.16	6.57	-5.99	32.74	54.00	21.26	Average
2390.0400	32.16	6.57	-5.90	32.83	54.00	21.17	Average
@ 2410.4400	32.18	6.59	37.95	76.72	---	---	Average

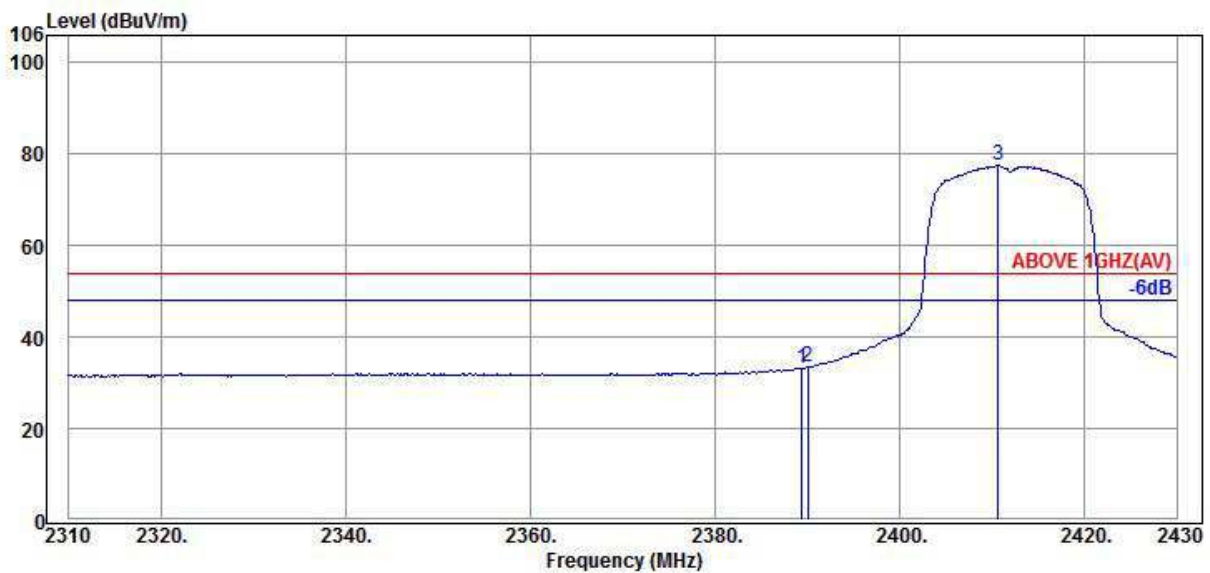
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2382.3600	32.13	6.55	6.55	45.23	74.00	28.77	Peak
2390.0400	32.16	6.57	7.36	46.09	74.00	27.91	Peak
@ 2410.6800	32.18	6.59	48.40	87.17	---	---	Peak

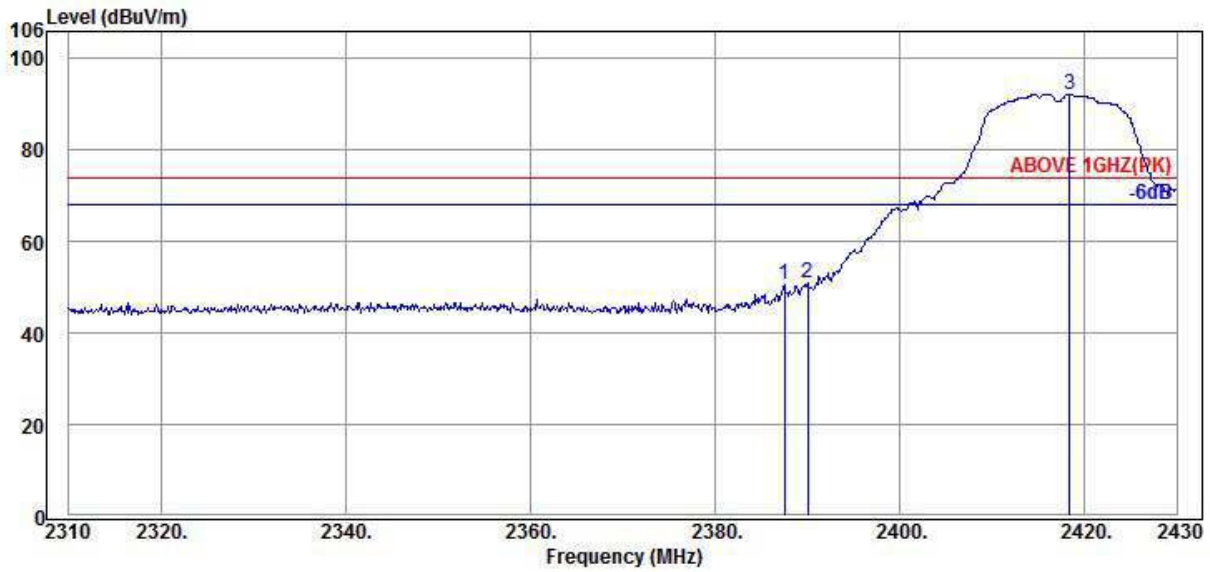


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.4400	32.16	6.57	-5.45	33.28	54.00	20.72	Average
2390.0400	32.16	6.57	-5.10	33.63	54.00	20.37	Average
@ 2410.6800	32.18	6.59	38.72	77.49	---	---	Average

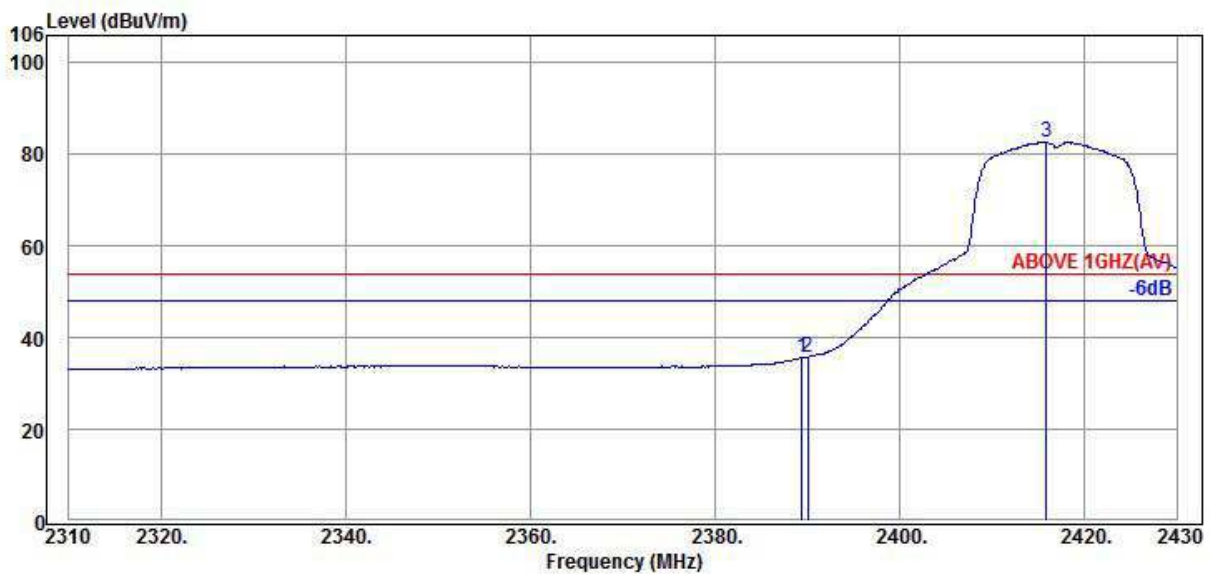
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2417MHz
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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
2387.5200	32.16	7.92	10.45	50.53	74.00	23.47	Peak
2390.0400	32.16	7.92	10.74	50.82	74.00	23.18	Peak
@ 2418.3600	32.18	7.92	52.21	92.31	---	---	Peak

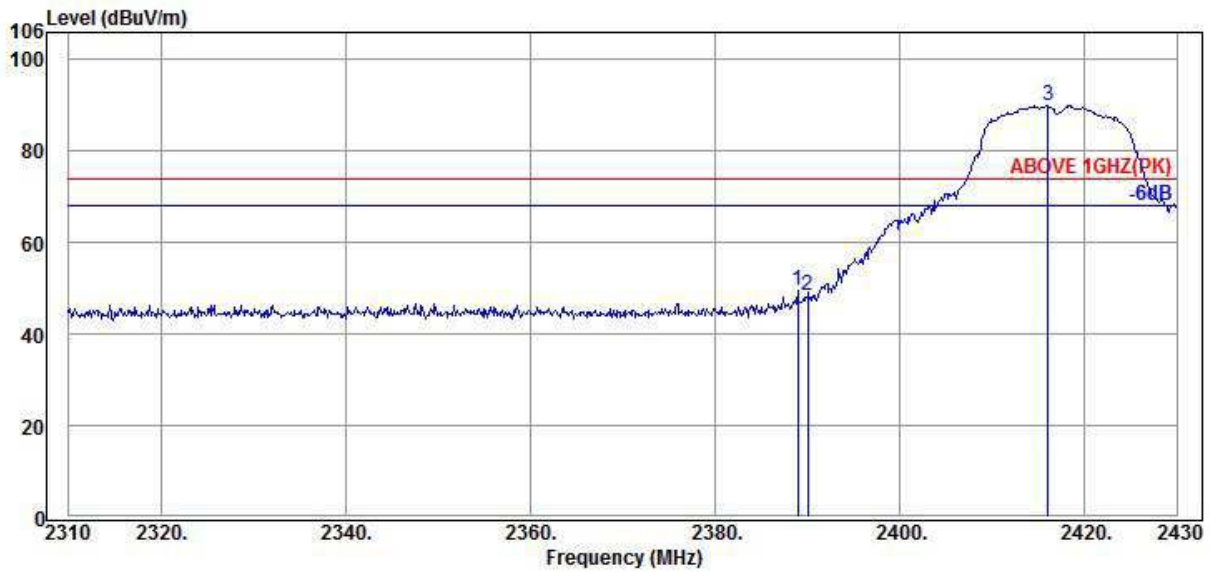


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.4400	32.16	7.92	-4.45	35.63	54.00	18.37	Average
2390.0400	32.16	7.92	-4.33	35.75	54.00	18.25	Average
@ 2415.8400	32.18	7.92	42.61	82.71	---	---	Average

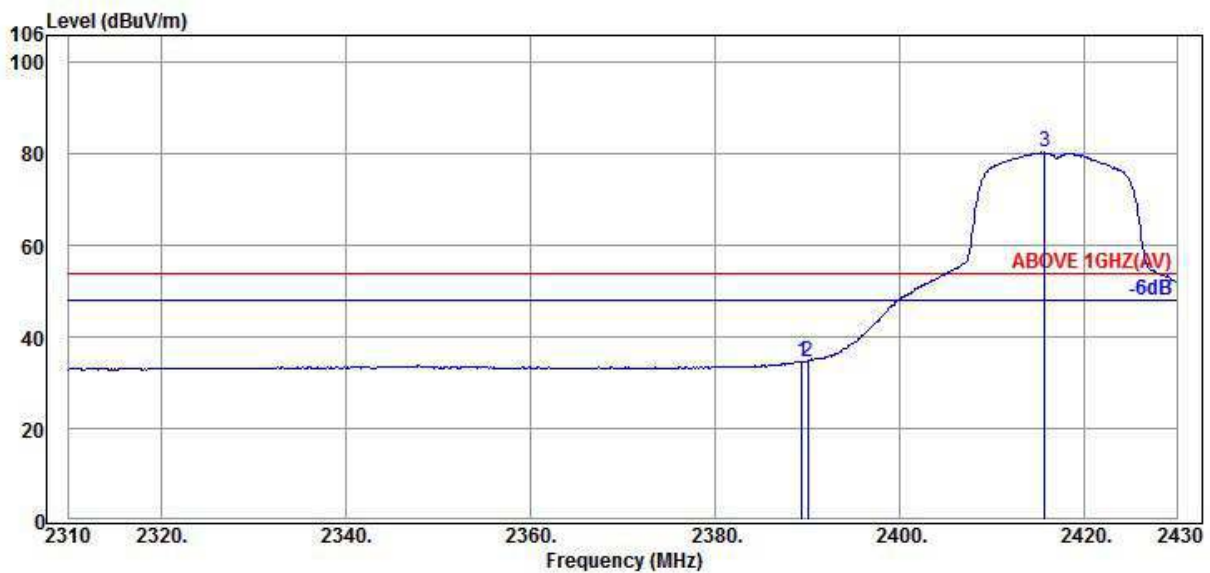
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2417MHz
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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
2388.9600	32.16	7.92	9.43	49.51	74.00	24.49	Peak
2390.0400	32.16	7.92	8.46	48.54	74.00	25.46	Peak
@ 2416.0800	32.18	7.92	49.84	89.94	---	---	Peak

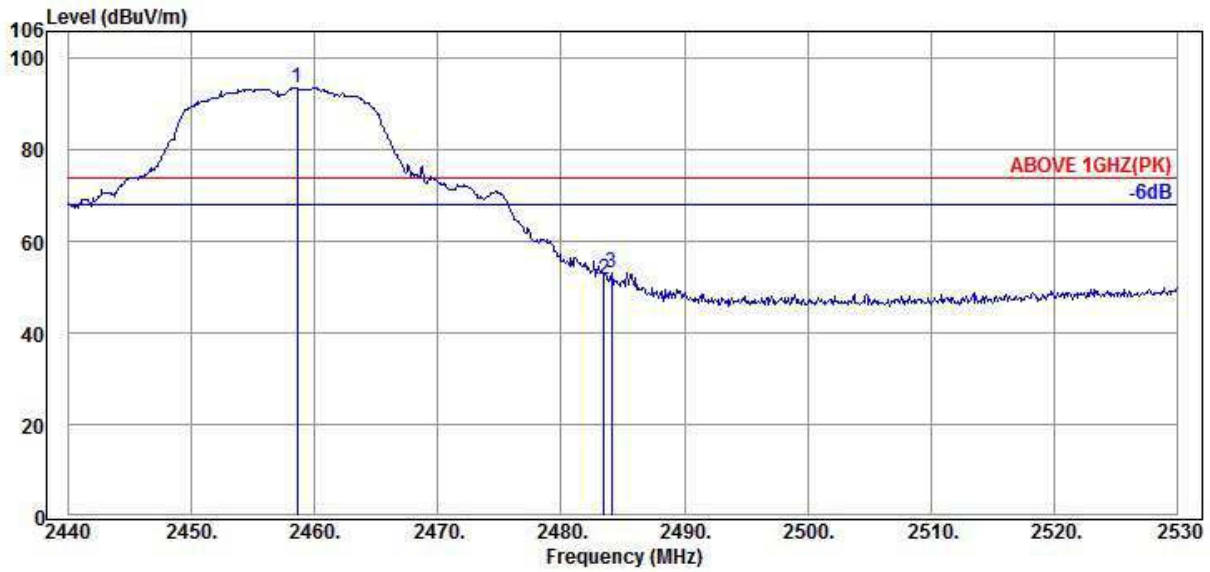


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.4400	32.16	7.92	-5.31	34.77	54.00	19.23	Average
2390.0400	32.16	7.92	-5.31	34.77	54.00	19.23	Average
@ 2415.7200	32.18	7.92	40.31	80.41	---	---	Average

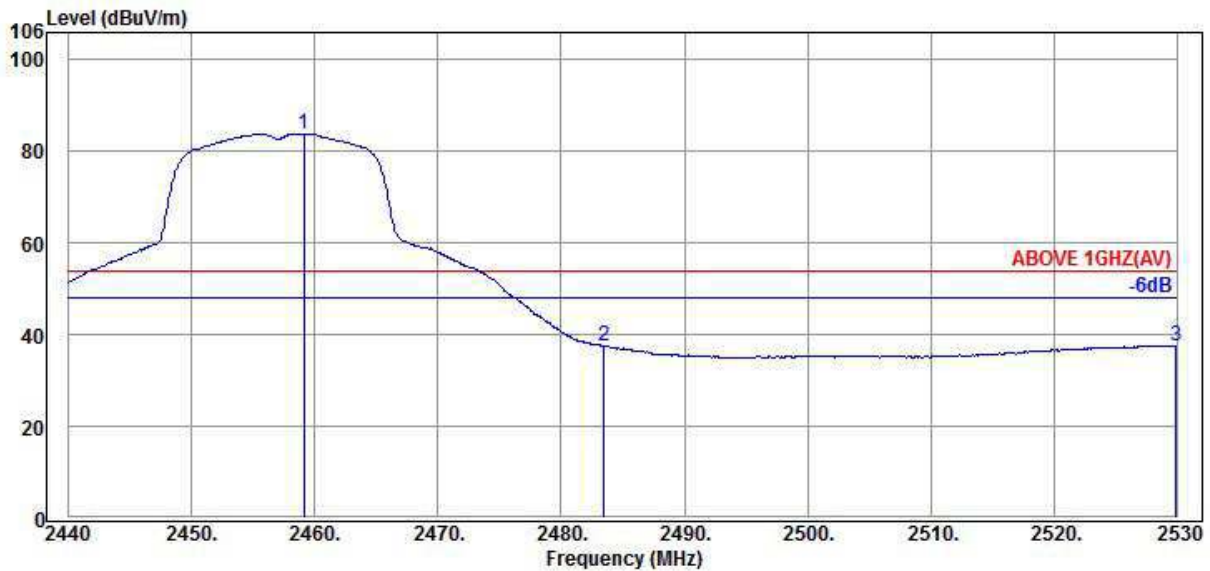
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2457MHz
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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
@	2458.5400	32.25	7.91	53.45	93.61	---	---	Peak
	2483.4700	32.28	7.90	11.64	51.82	74.00	22.18	Peak
	2484.1000	32.28	7.90	13.12	53.30	74.00	20.70	Peak

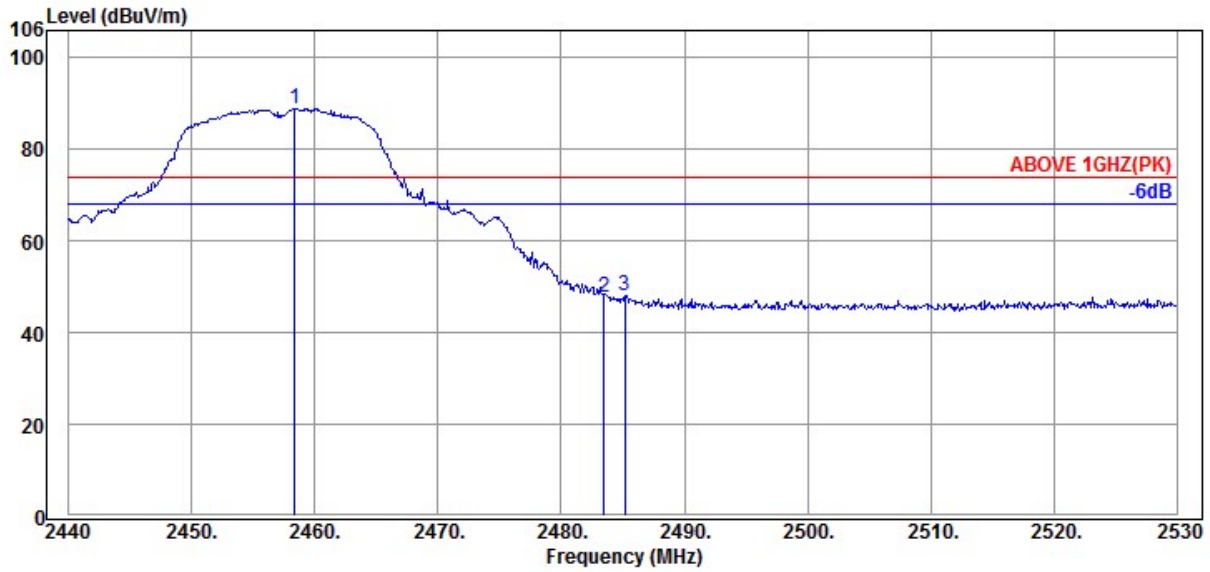


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2459.0800	32.25	7.91	43.70	83.86	---	---	Average
	2483.4700	32.28	7.90	-2.60	37.58	54.00	16.42	Average
	2529.9100	32.34	7.98	-2.68	37.64	54.00	16.36	Average

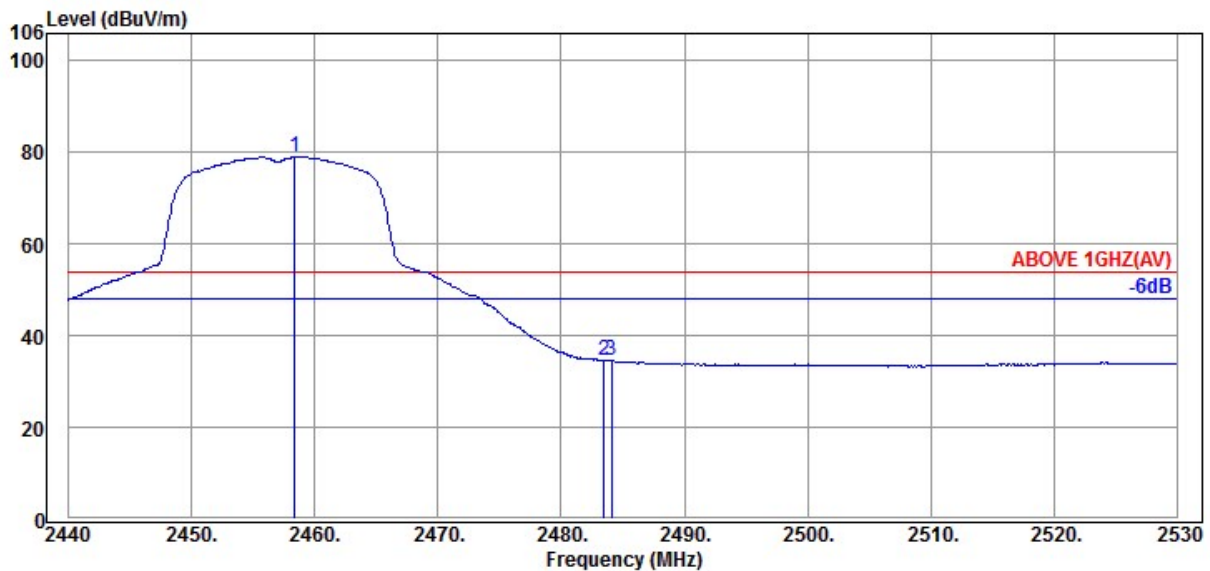
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2457MHz
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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
@ 2458.3600	32.25	7.91	48.66	88.82	---	---	Peak
2483.4700	32.28	7.90	7.60	47.78	74.00	26.22	Peak
2485.1800	32.28	7.90	7.85	48.03	74.00	25.97	Peak

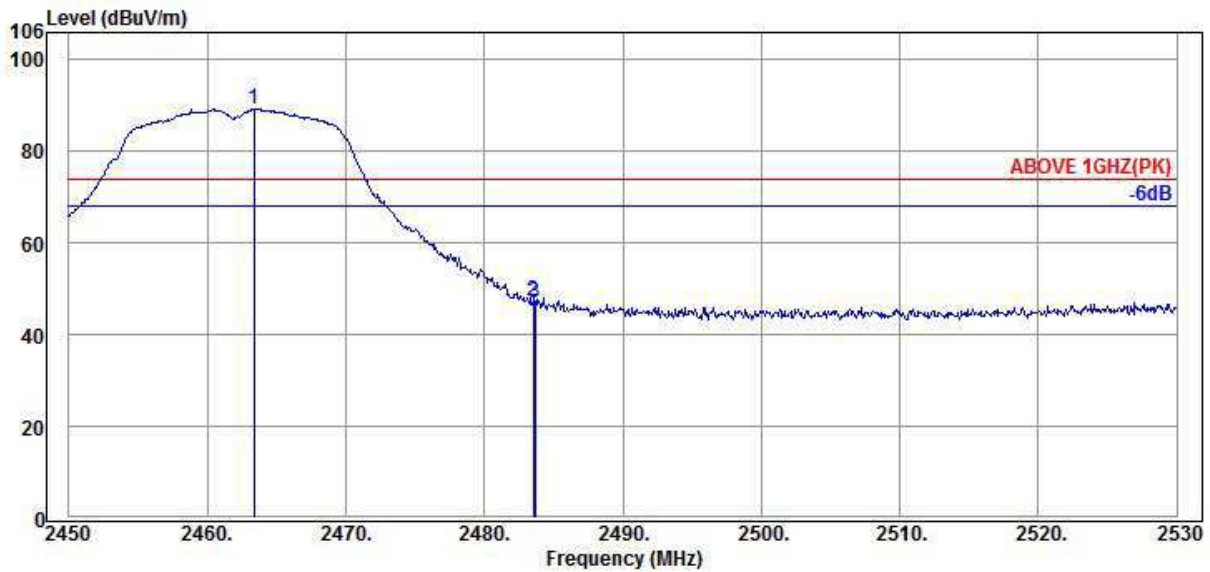


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.3600	32.25	7.91	38.91	79.07	---	---	Average
2483.4700	32.28	7.90	-5.51	34.67	54.00	19.33	Average
2484.1000	32.28	7.90	-5.57	34.61	54.00	19.39	Average

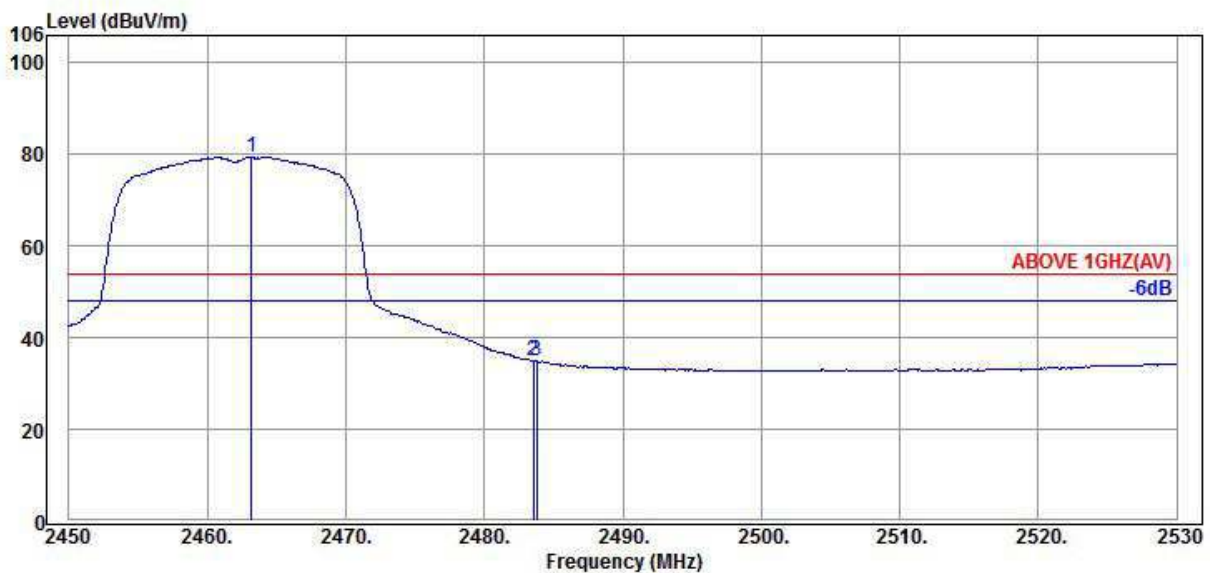
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2463.3600	32.25	6.65	50.28	89.18	---	---	Peak
	2483.5200	32.28	6.67	8.42	47.37	74.00	26.63	Peak
	2483.6800	32.28	6.67	8.12	47.07	74.00	26.93	Peak

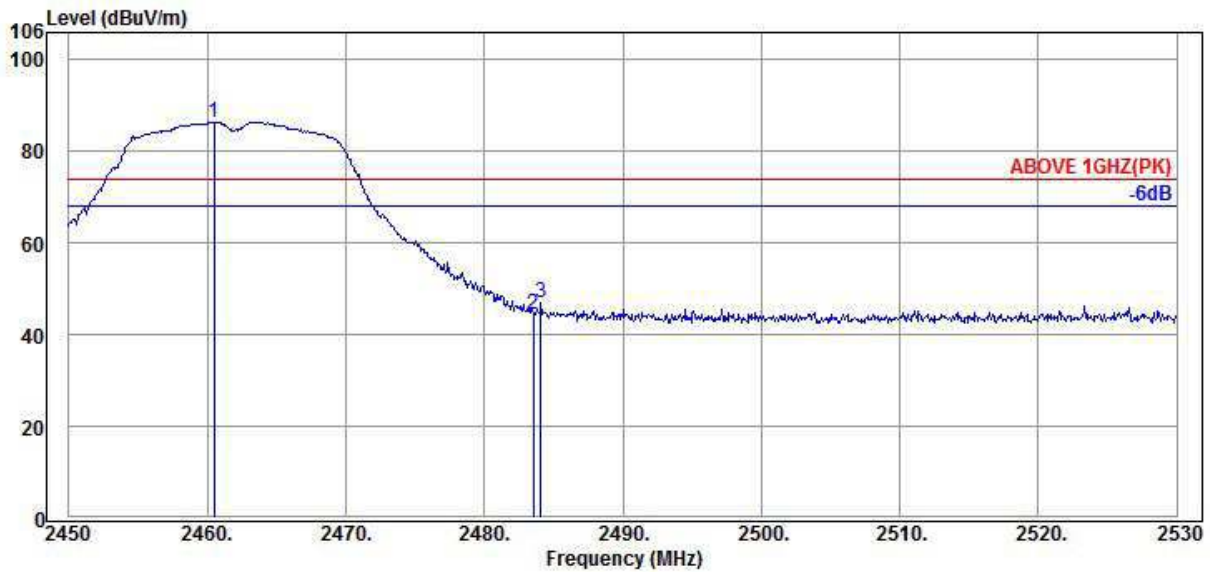


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2463.2000	32.25	6.65	40.58	79.48	---	---	Average
	2483.5200	32.28	6.67	-3.91	35.04	54.00	18.96	Average
	2483.7600	32.28	6.67	-4.13	34.82	54.00	19.18	Average

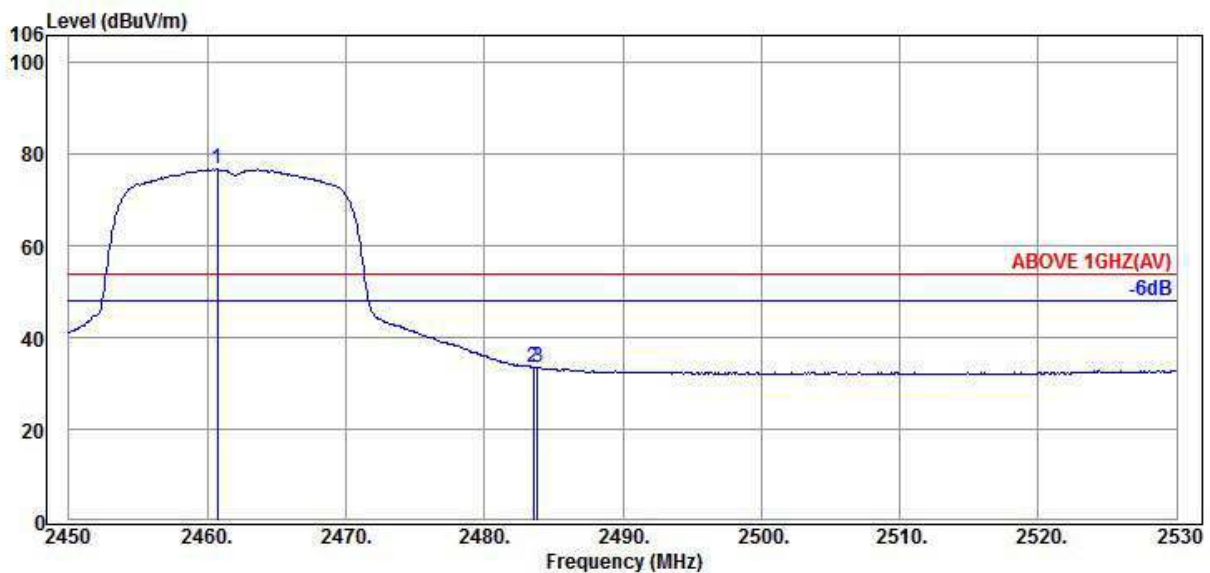
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.4800	32.25	6.65	47.56	86.46	---	---	Peak
2483.5200	32.28	6.67	5.56	44.51	74.00	29.49	Peak
2484.0800	32.28	6.67	8.12	47.07	74.00	26.93	Peak

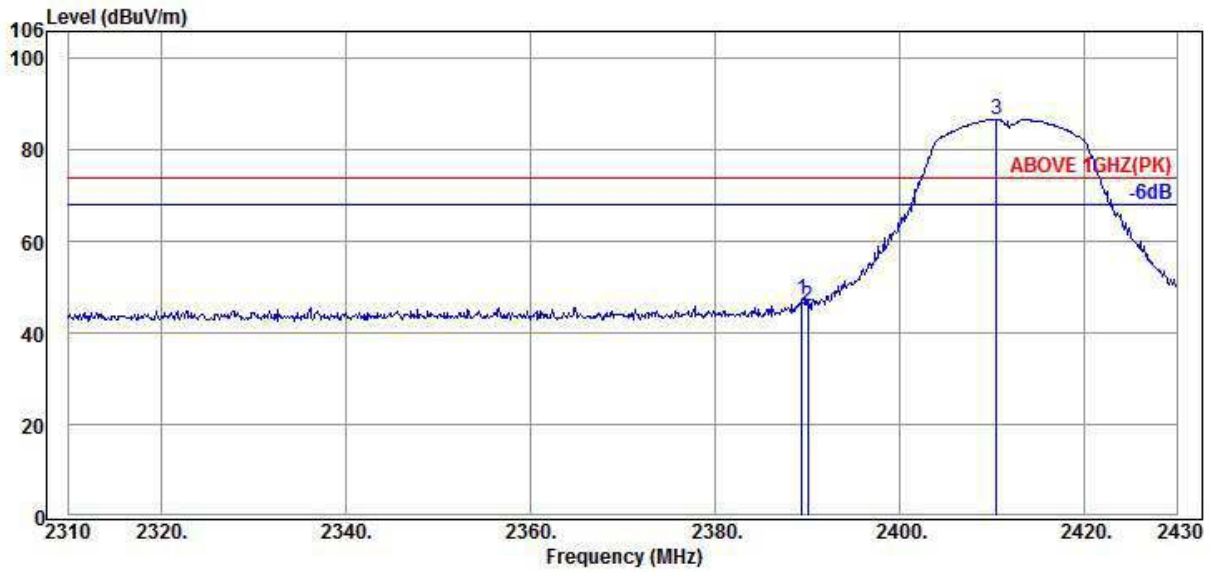


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.7200	32.25	6.65	37.94	76.84	---	---	Average
2483.5200	32.28	6.67	-5.33	33.62	54.00	20.38	Average
2483.8400	32.28	6.67	-5.38	33.57	54.00	20.43	Average

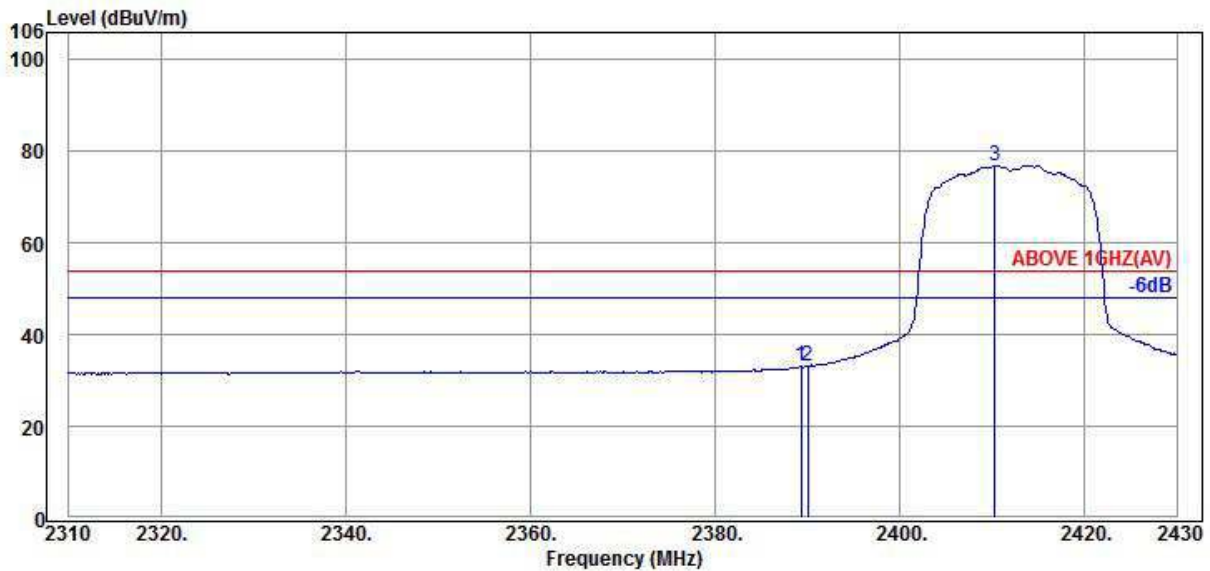
備註：“@”為主波，在此章節是不予以判定。

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)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.4400	32.16	6.57	8.58	47.31	74.00	26.69	Peak
2390.0400	32.16	6.57	7.06	45.79	74.00	28.21	Peak
@ 2410.4400	32.18	6.59	48.02	86.79	---	---	Peak

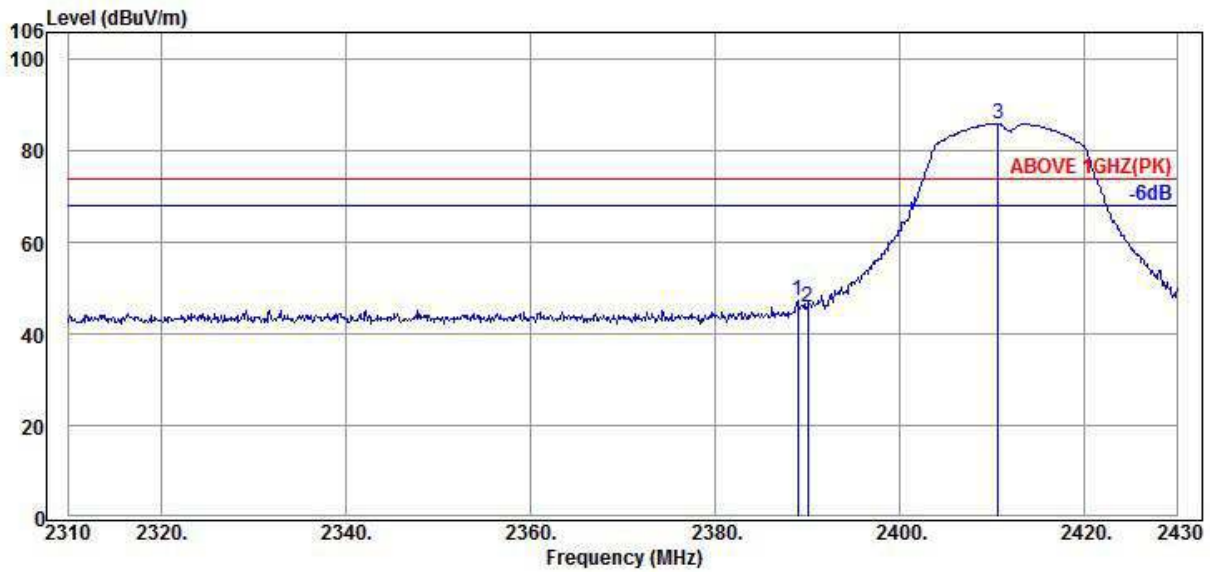


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.3200	32.16	6.57	-5.54	33.19	54.00	20.81	Average
2390.0400	32.16	6.57	-5.66	33.07	54.00	20.93	Average
@ 2410.3200	32.18	6.59	38.14	76.91	---	---	Average

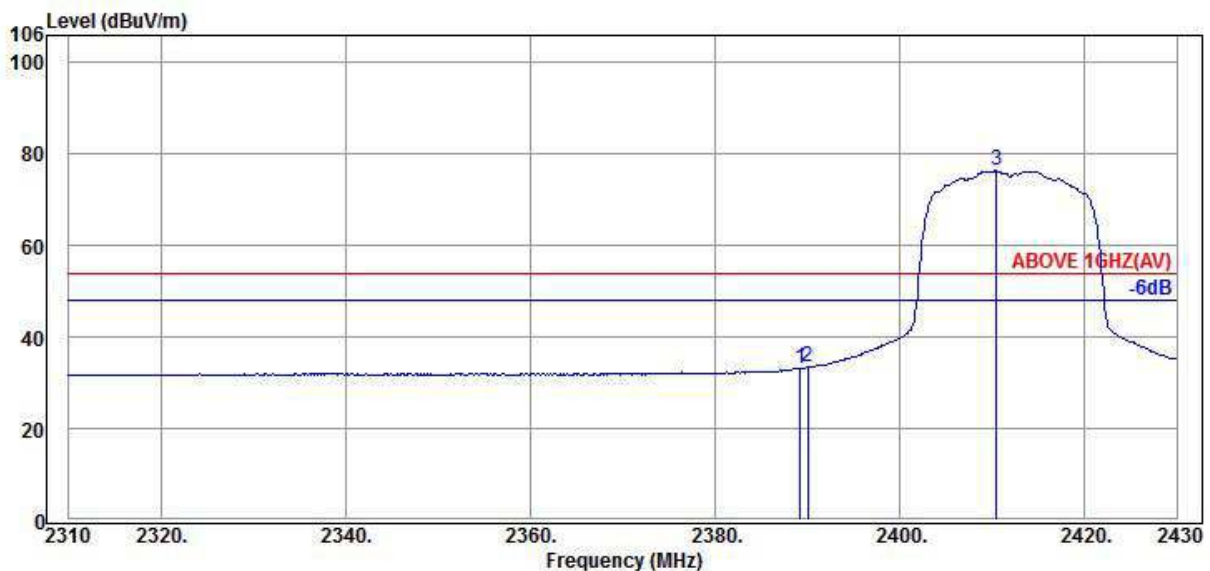
備註：“@”為主波，在此章節是不予以判定。

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)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.9600	32.16	6.57	8.55	47.28	74.00	26.72	Peak
2390.0400	32.16	6.57	7.10	45.83	74.00	28.17	Peak
@ 2410.6800	32.18	6.59	47.28	86.05	---	---	Peak

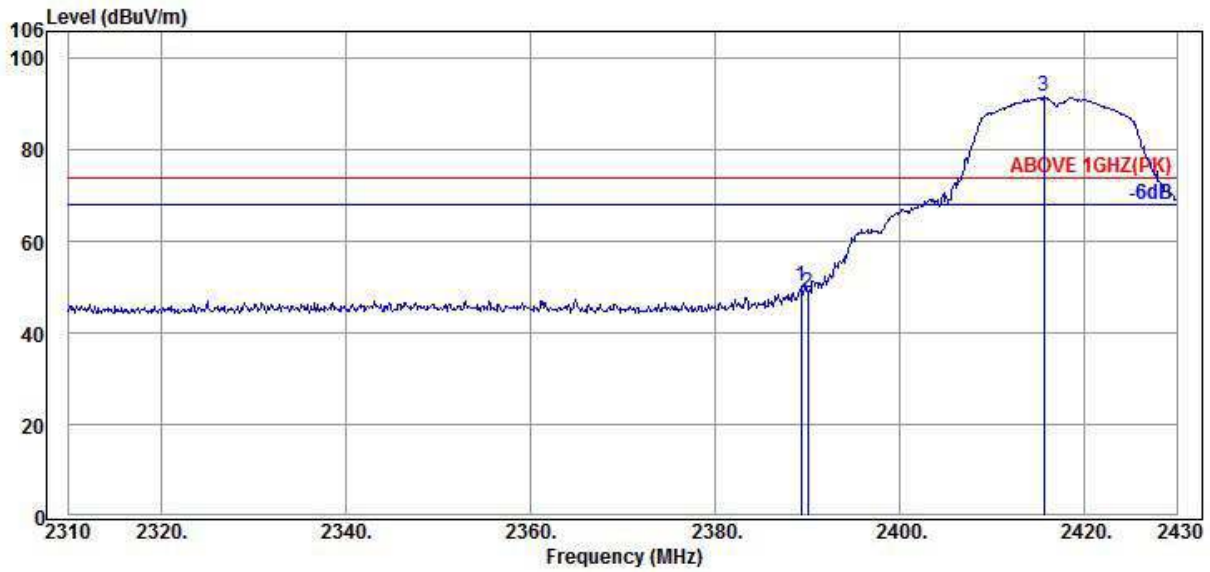


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.2000	32.16	6.57	-5.52	33.21	54.00	20.79	Average
2390.0400	32.16	6.57	-5.31	33.42	54.00	20.58	Average
@ 2410.4400	32.18	6.59	37.56	76.33	---	---	Average

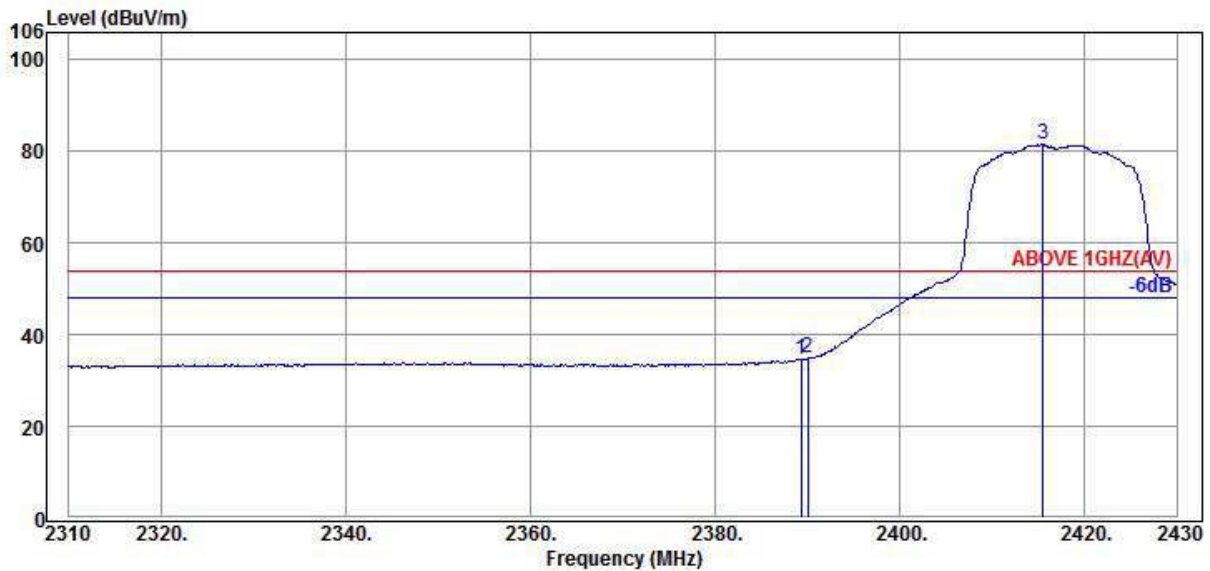
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2417MHz
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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
2389.3200	32.16	7.92	10.26	50.34	74.00	23.66	Peak
2390.0400	32.16	7.92	8.79	48.87	74.00	25.13	Peak
@ 2415.6000	32.18	7.92	51.62	91.72	---	---	Peak

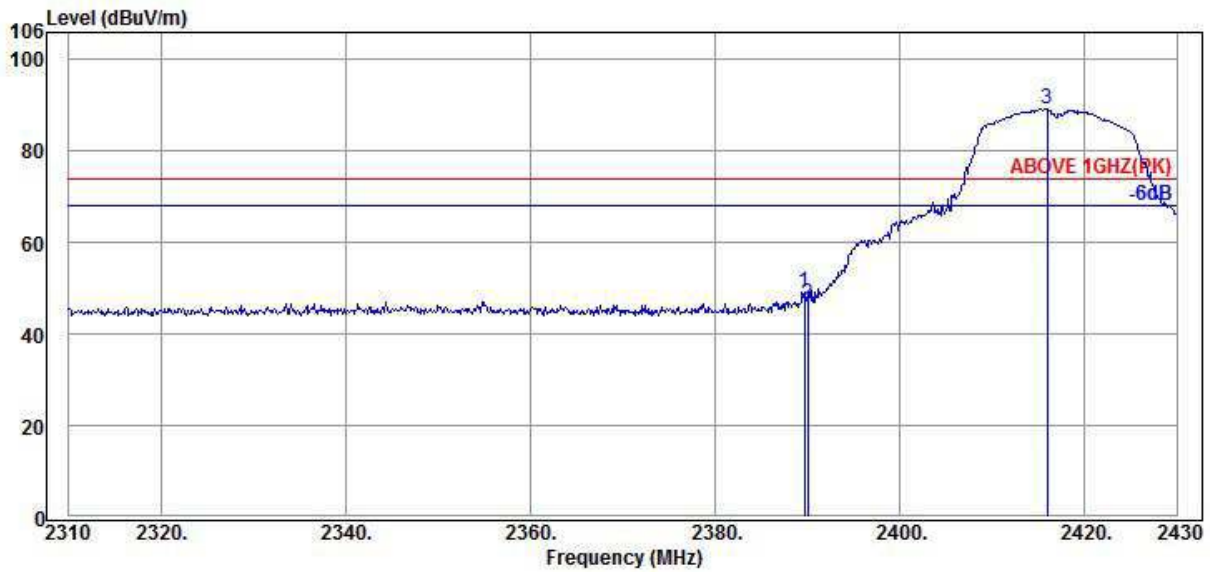


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.3200	32.16	7.92	-5.44	34.64	54.00	19.36	Average
2390.0400	32.16	7.92	-5.21	34.87	54.00	19.13	Average
@ 2415.4800	32.18	7.92	41.47	81.57	---	---	Average

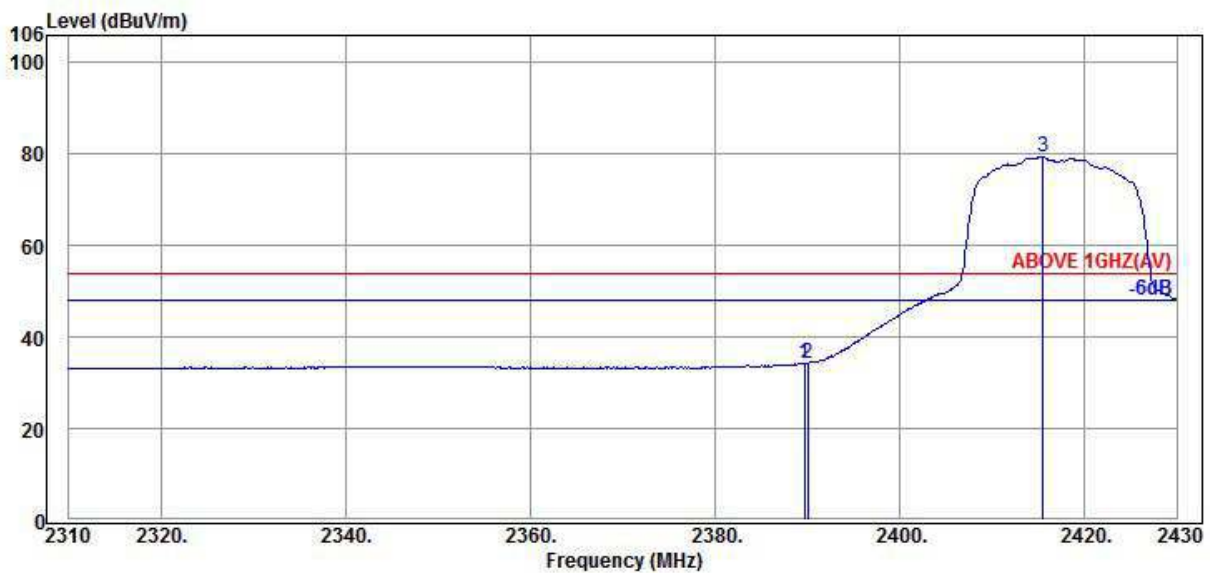
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2417MHz
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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
2389.6800	32.16	7.92	9.21	49.29	74.00	24.71	Peak
2390.0400	32.16	7.92	6.72	46.80	74.00	27.20	Peak
@ 2415.9600	32.18	7.92	49.28	89.38	---	---	Peak

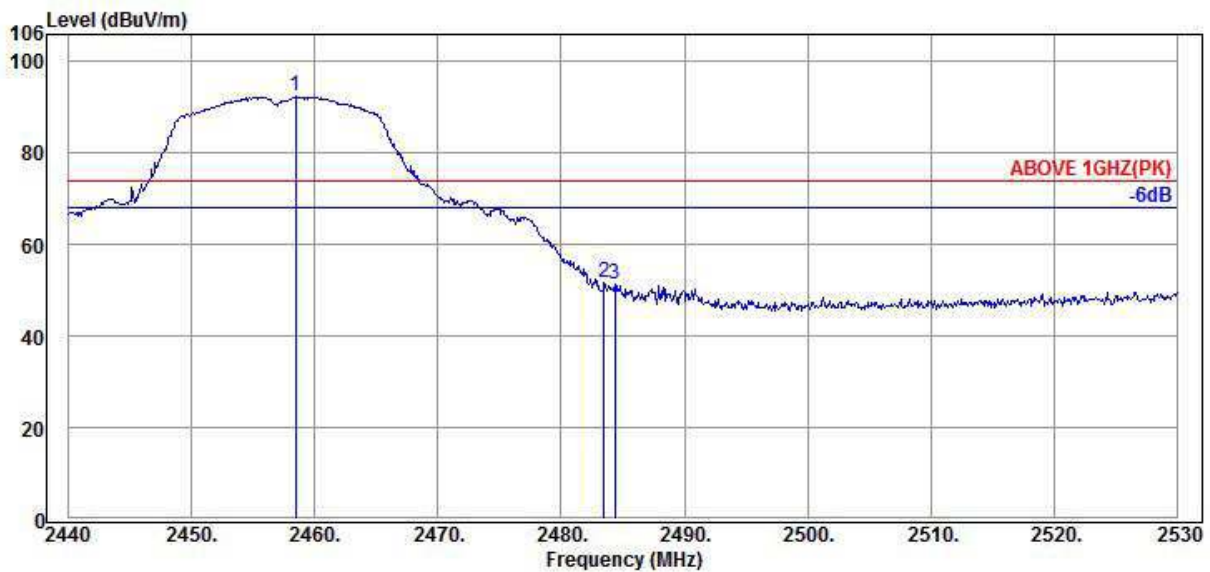


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.6800	32.16	7.92	-5.78	34.30	54.00	19.70	Average
2390.0400	32.16	7.92	-5.75	34.33	54.00	19.67	Average
@ 2415.4800	32.18	7.92	39.24	79.34	---	---	Average

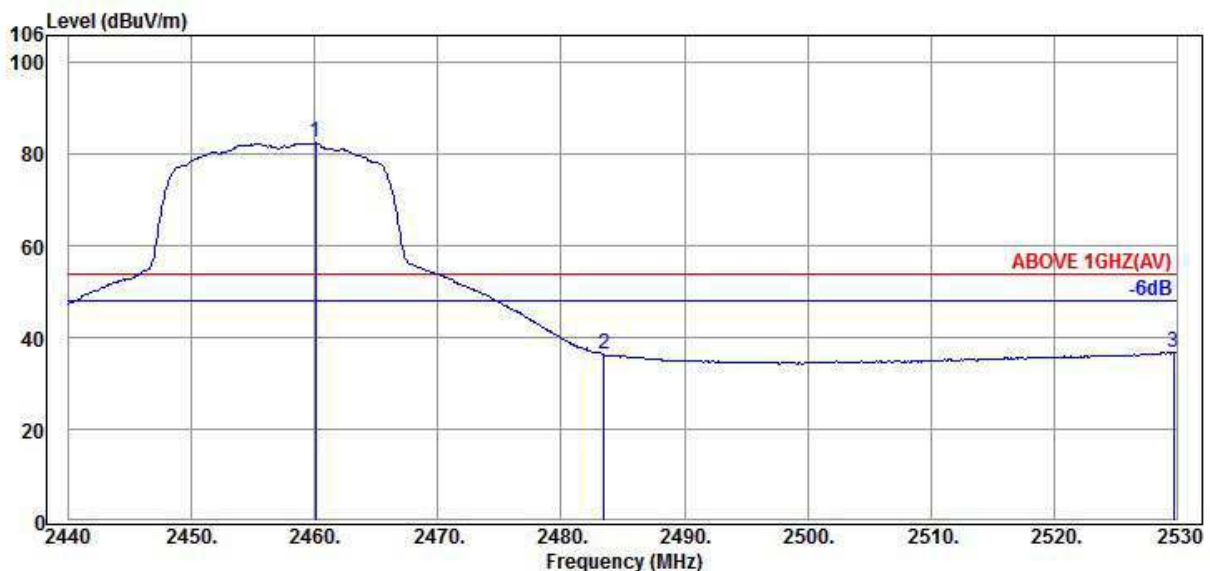
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2457MHz
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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
@	2458.4500	32.25	7.91	52.49	92.65	---	---	Peak
	2483.4700	32.28	7.90	11.59	51.77	74.00	22.23	Peak
	2484.3700	32.28	7.90	11.36	51.54	74.00	22.46	Peak

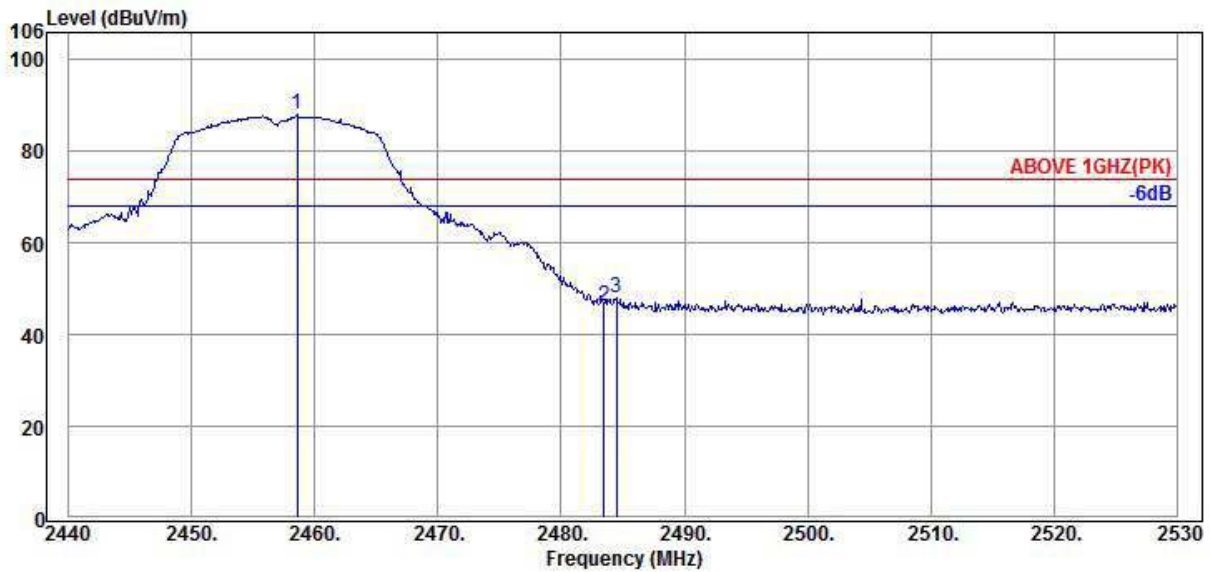


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2460.0700	32.25	0.00	50.28	82.53	---	---	Average
	2483.4700	32.28	0.00	4.11	36.39	54.00	17.61	Average
	2529.7300	32.34	0.00	4.43	36.77	54.00	17.23	Average

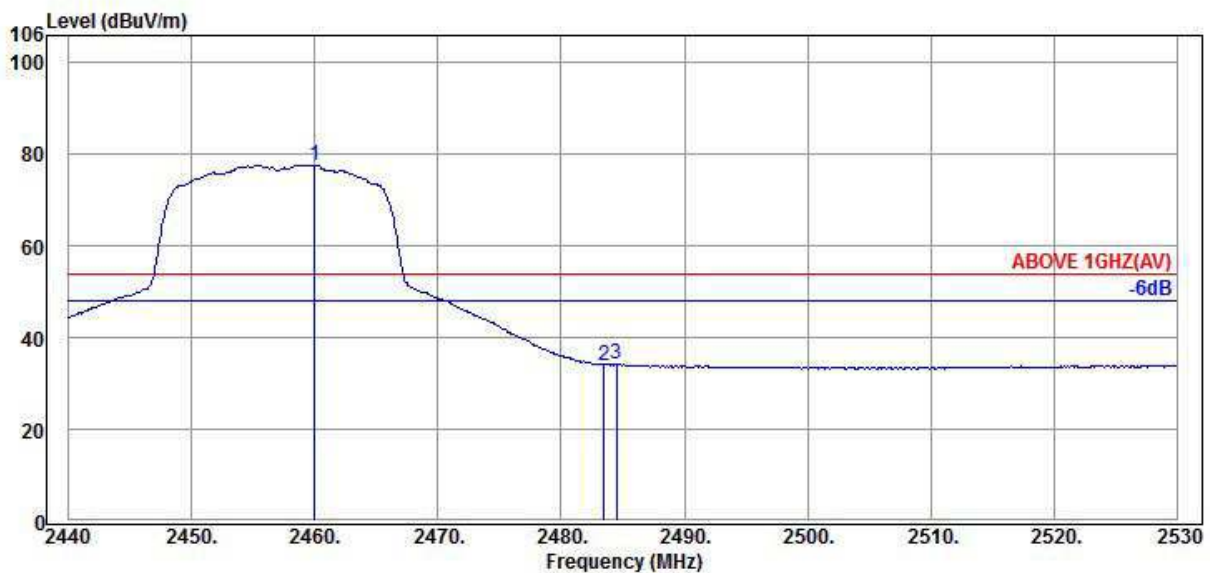
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 2457MHz
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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
@	2458.5400	32.25	7.91	47.88	88.04	---	---	Peak
	2483.4700	32.28	7.90	5.97	46.15	74.00	27.85	Peak
	2484.4600	32.28	7.90	8.01	48.19	74.00	25.81	Peak

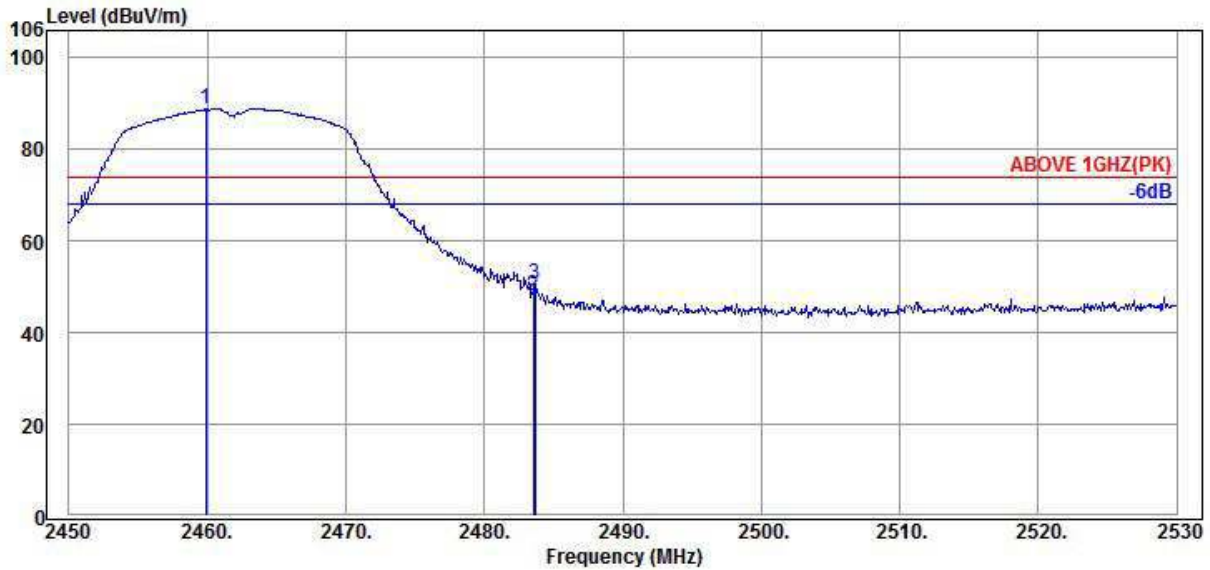


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2459.9800	32.25	7.91	37.58	77.74	---	---	Average
	2483.4700	32.28	7.90	-6.16	34.02	54.00	19.98	Average
	2484.4600	32.28	7.90	-6.04	34.14	54.00	19.86	Average

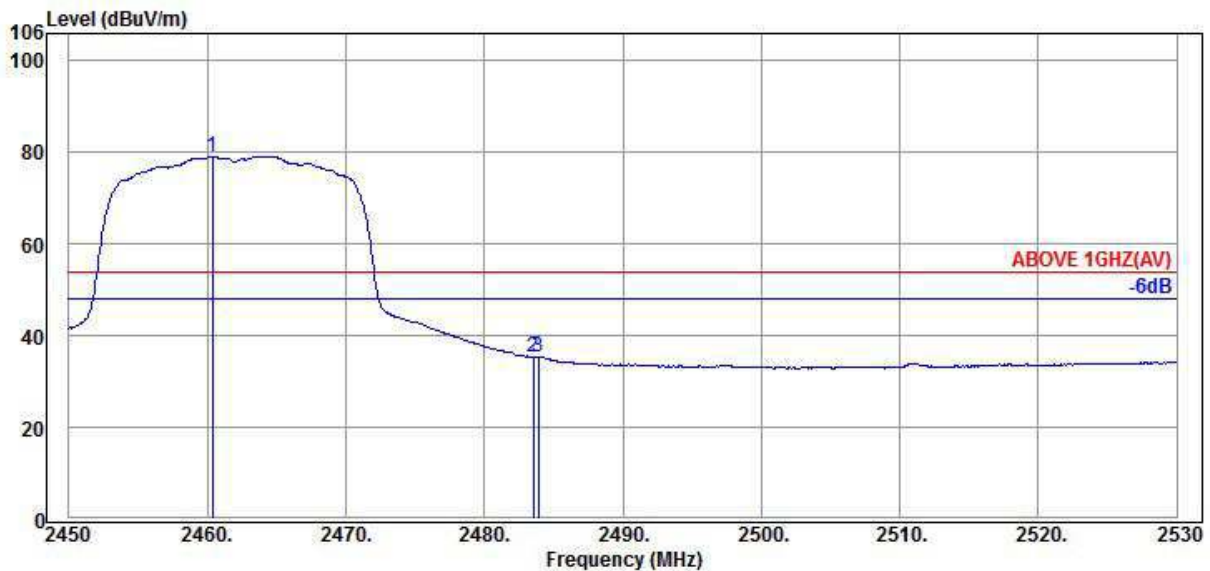
備註：“@”為主波，在此章節是不予以判定。

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)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.9200	32.25	6.65	50.13	89.03	---	---	Peak
2483.5200	32.28	6.67	9.02	47.97	74.00	26.03	Peak
2483.6800	32.28	6.67	11.69	50.64	74.00	23.36	Peak

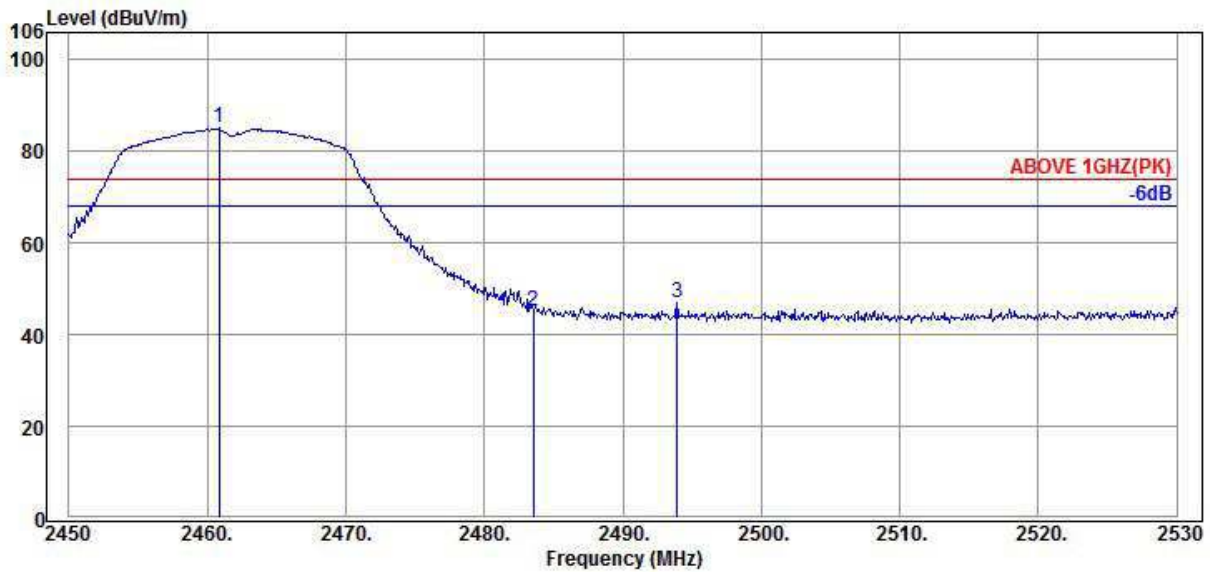


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.4000	32.25	6.65	40.22	79.12	---	---	Average
2483.5200	32.28	6.67	-3.65	35.30	54.00	18.70	Average
2483.9200	32.28	6.67	-3.59	35.36	54.00	18.64	Average

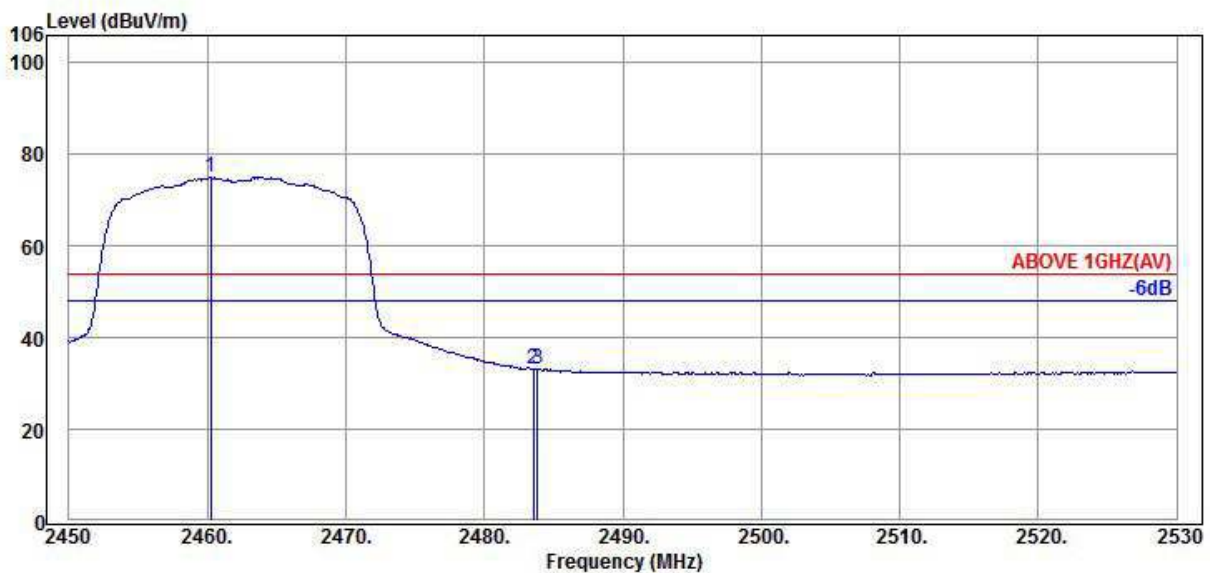
備註：“@”為主波，在此章節是不予以判定。

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)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.8800	32.25	6.65	46.24	85.14	---	---	Peak
2483.5200	32.28	6.67	6.12	45.07	74.00	28.93	Peak
2493.9200	32.30	6.69	7.84	46.83	74.00	27.17	Peak



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
@ 2460.2400	32.25	6.65	36.09	74.99	---	---	Average
2483.5200	32.28	6.67	-5.89	33.06	54.00	20.94	Average
2483.8400	32.28	6.67	-5.67	33.28	54.00	20.72	Average

備註：“@”為主波，在此章節是不予以判定。

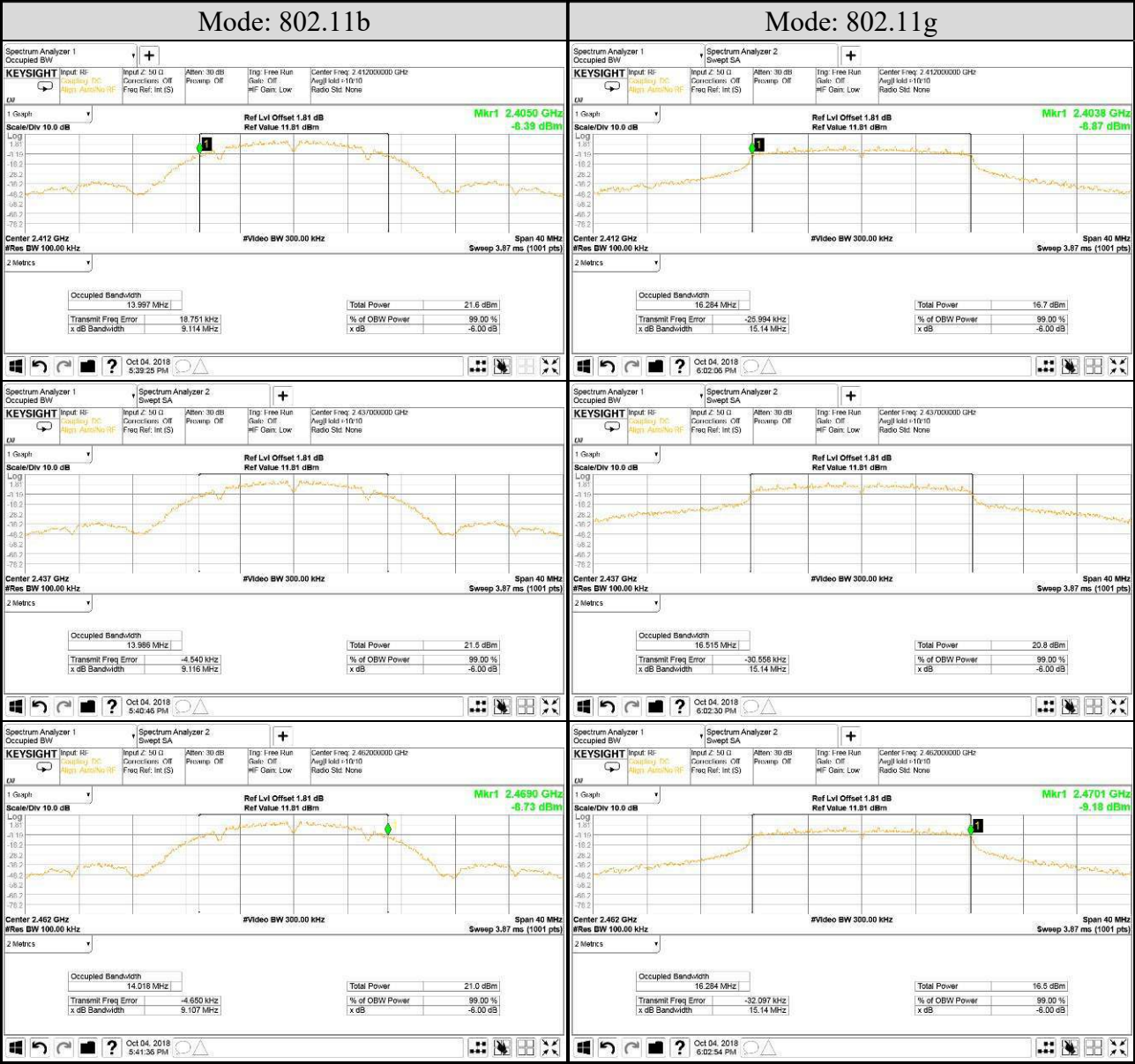
3. 發射頻寬之量測

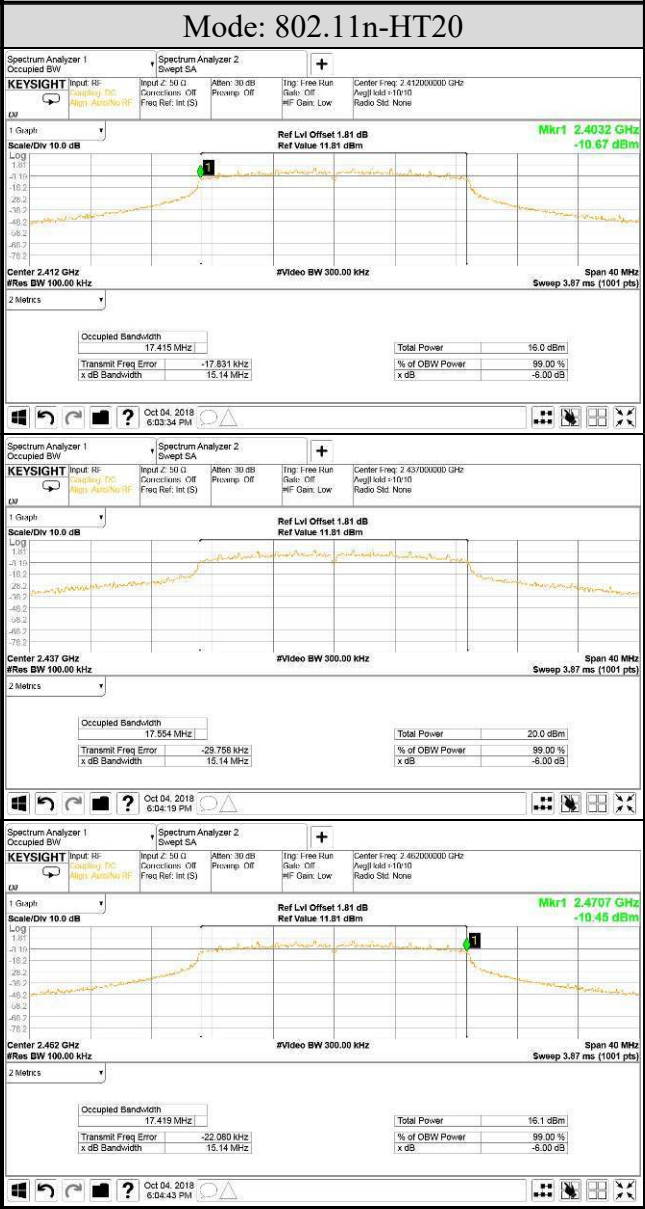
測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)		

3.1. 發射頻寬

模式 (Mode)	測試頻率 (MHz)	6dB 頻寬 (MHz)	限制值 (kHz)
802.11b	2412	9.114	>500
	2437	9.116	
	2462	9.107	
802.11g	2412	15.14	
	2437	15.14	
	2462	15.14	
802.11n-HT20	2412	15.14	
	2437	15.14	
	2462	15.14	

3.2. 發射頻寬之量測圖





4. 峰值輸出功率之量測

測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)		

4.1. 峰值輸出功率

模式 (Mode)	測試頻率 (MHz)	最大輸出功率(dBm)	限制值 (dBm)
802.11b	2412	17.30	30
	2417	17.42	
	2437	17.58	
	2457	17.47	
	2462	17.44	
802.11g	2412	18.08	
	2417	18.52	
	2437	18.58	
	2457	18.49	
	2462	18.15	
802.11n-HT20	2412	18.08	
	2417	18.31	
	2437	18.45	
	2457	18.44	
	2462	18.12	

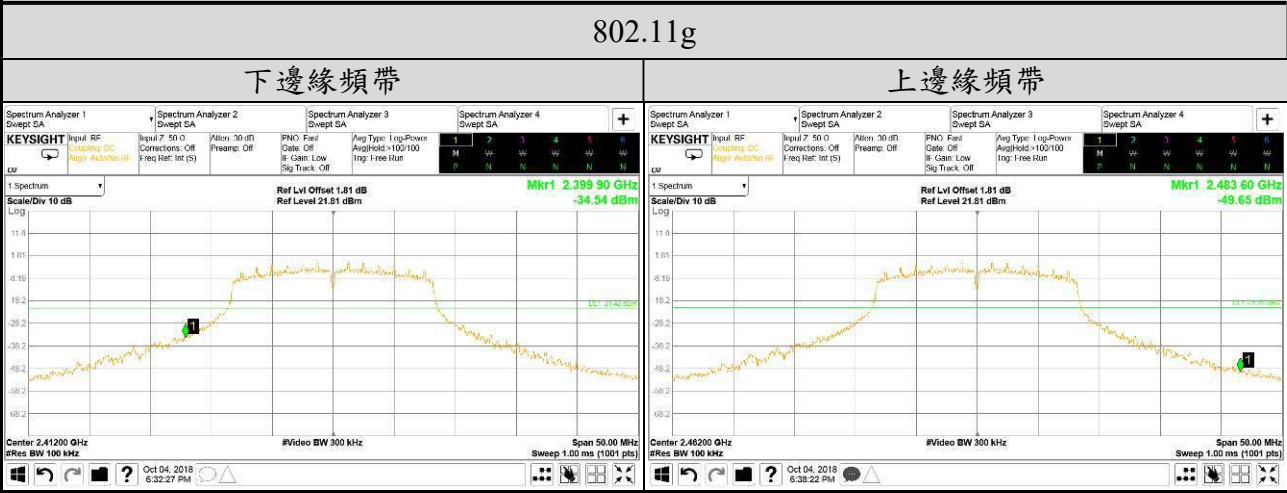
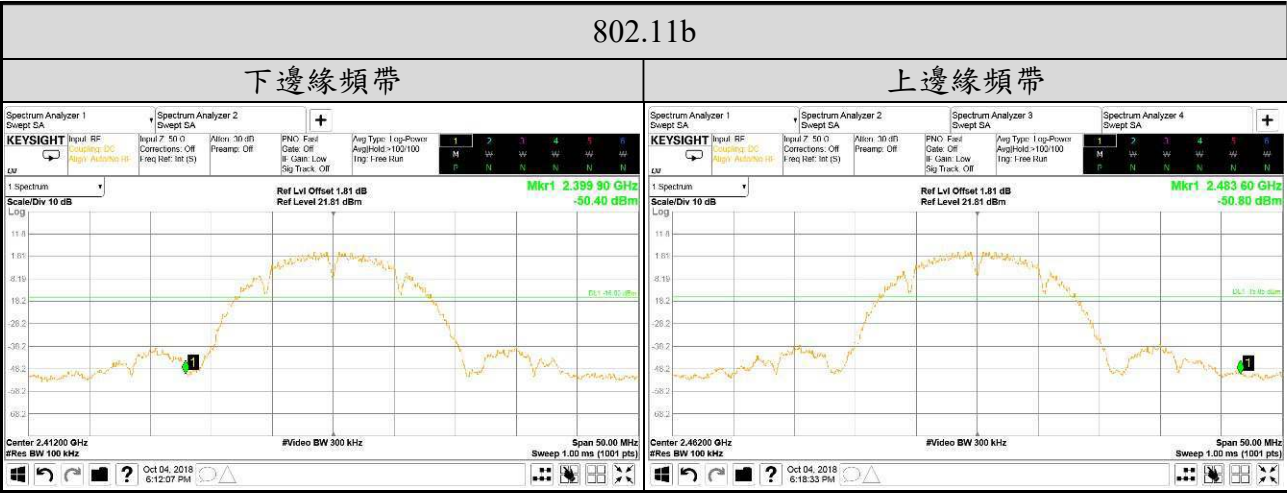
4.2. 平均輸出功率(參考用)

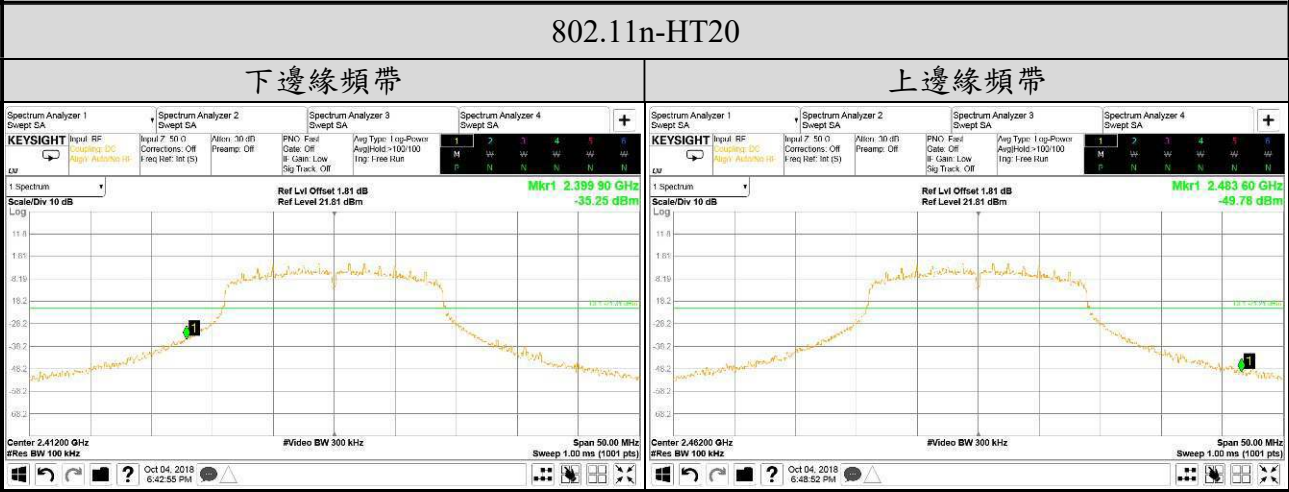
模式 (Mode)	測試頻率 (MHz)	Duty Cycle (X)	最大輸出功率(dBm)			限制值 (dBm)
			輸出功率(dBm)	$10\log(1/X)$	Total	
802.11b	2412	0.96	15.09	0.16	15.25	30
	2417		15.23		15.39	
	2437		15.32		15.48	
	2457		15.3		15.46	
	2462		15.14		15.30	
802.11g	2412	0.92	10.29	0.38	10.67	
	2417		14.18		14.56	
	2437		14.26		14.64	
	2457		14.06		14.44	
	2462		10.75		11.13	
802.11n-HT20	2412	0.90	10.17	0.46	10.63	
	2417		13.52		13.98	
	2437		13.55		14.01	
	2457		13.49		13.95	
	2462		10.39		10.85	

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. 帶邊緣之 RF 傳導發射之量測

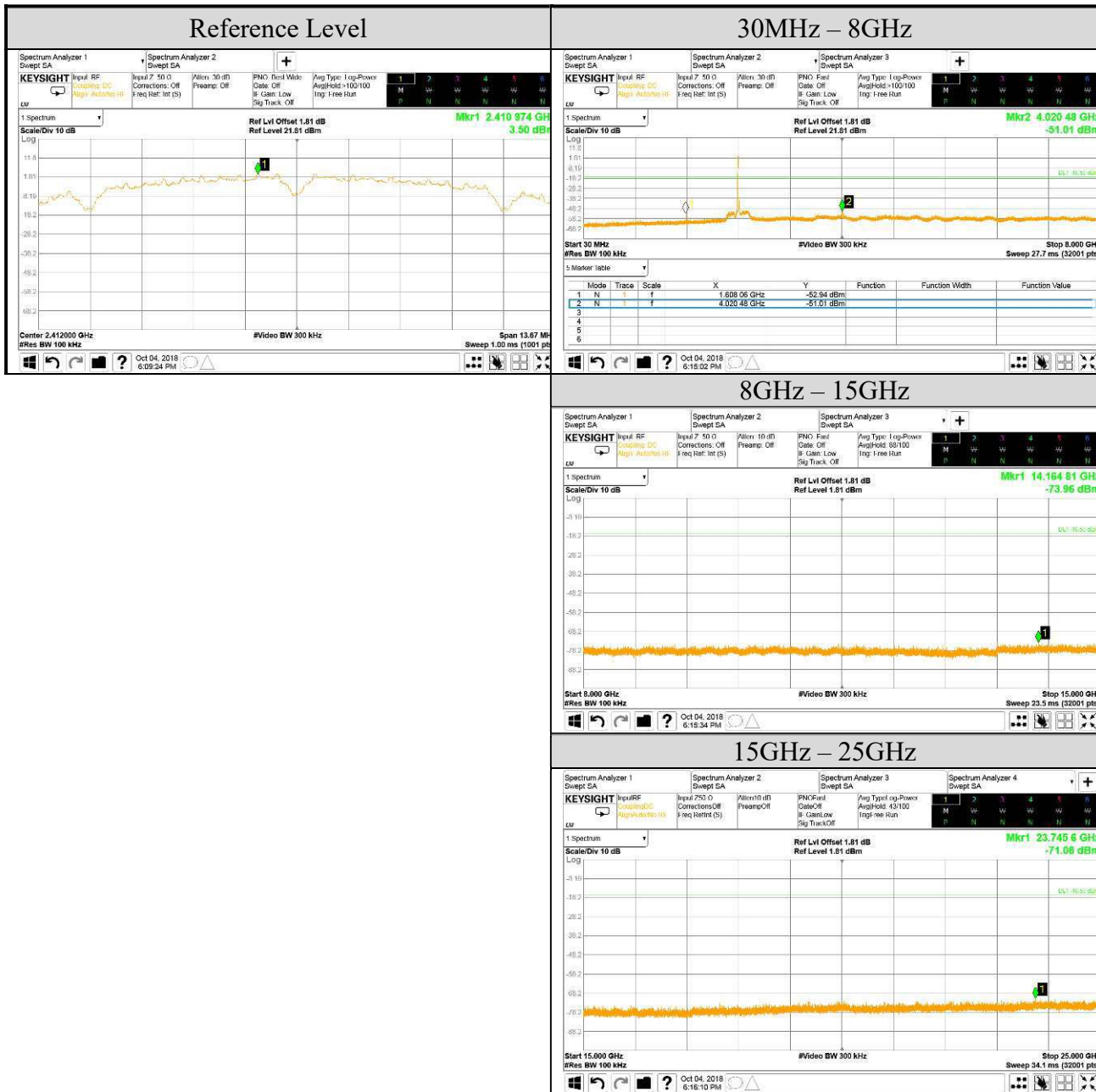
測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)		





6. 混附發射之 RF 傳導發射之量測

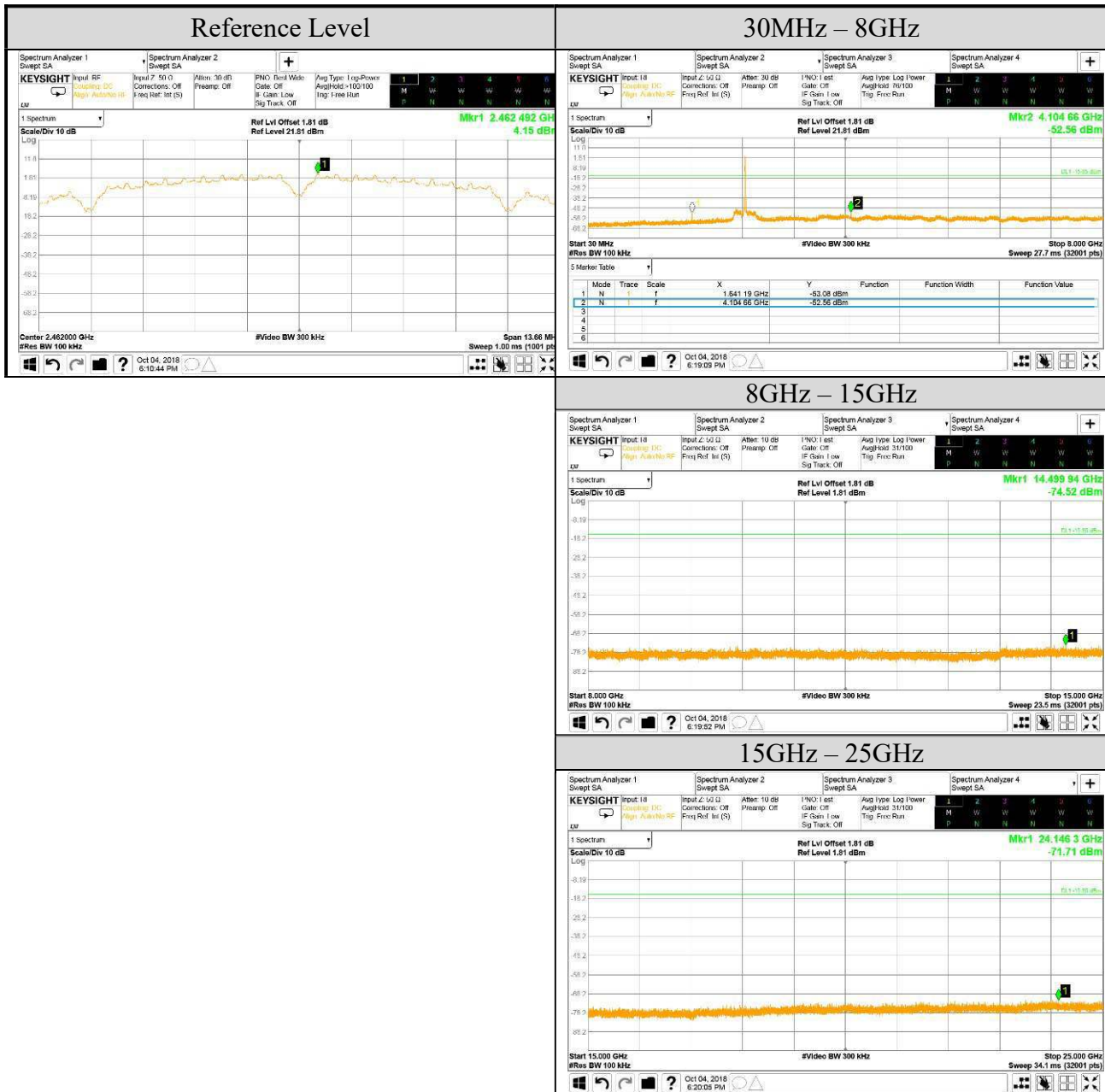
測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11b
		測試頻率	2412MHz



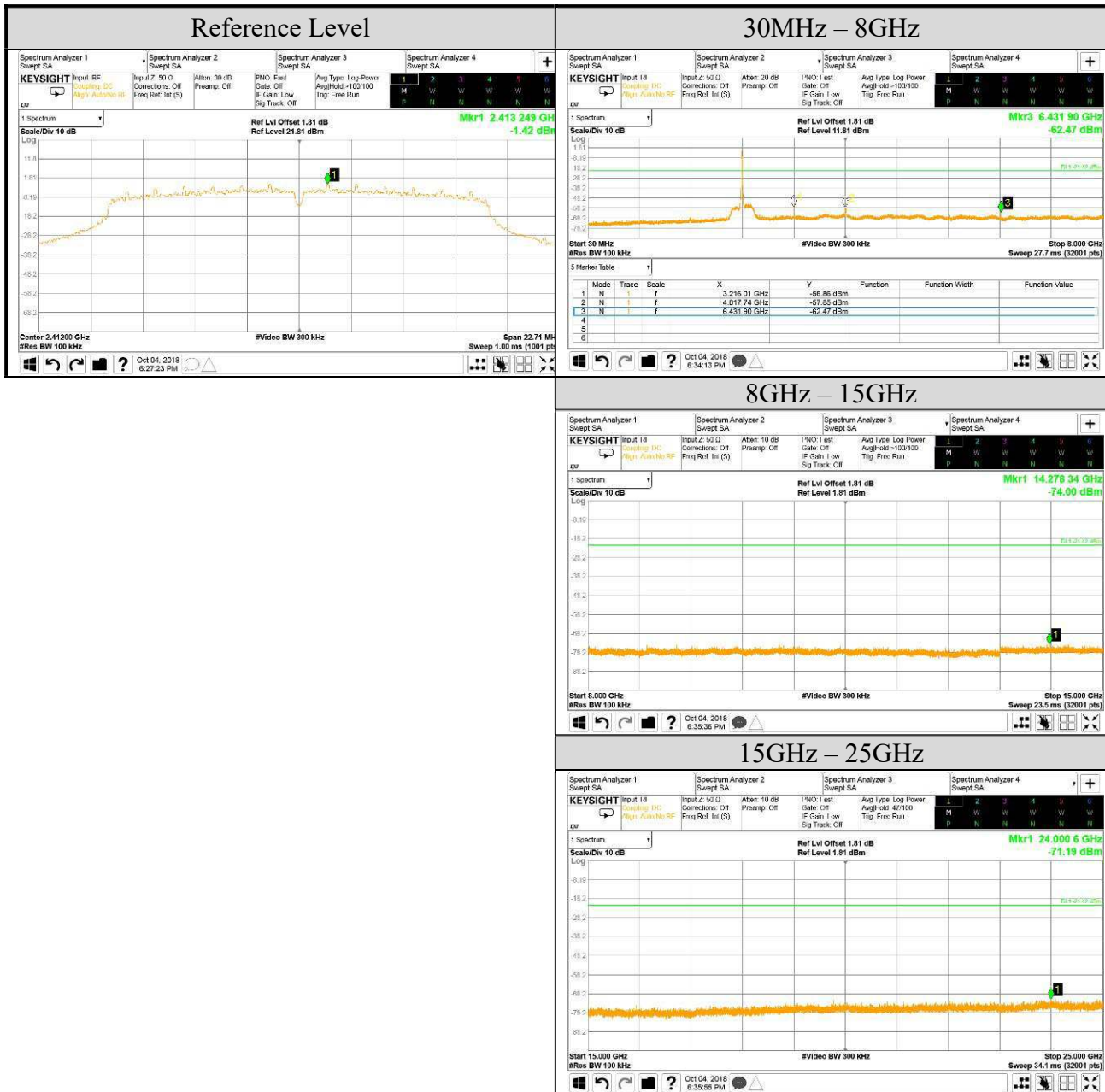
測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11b
		測試頻率	2437MHz



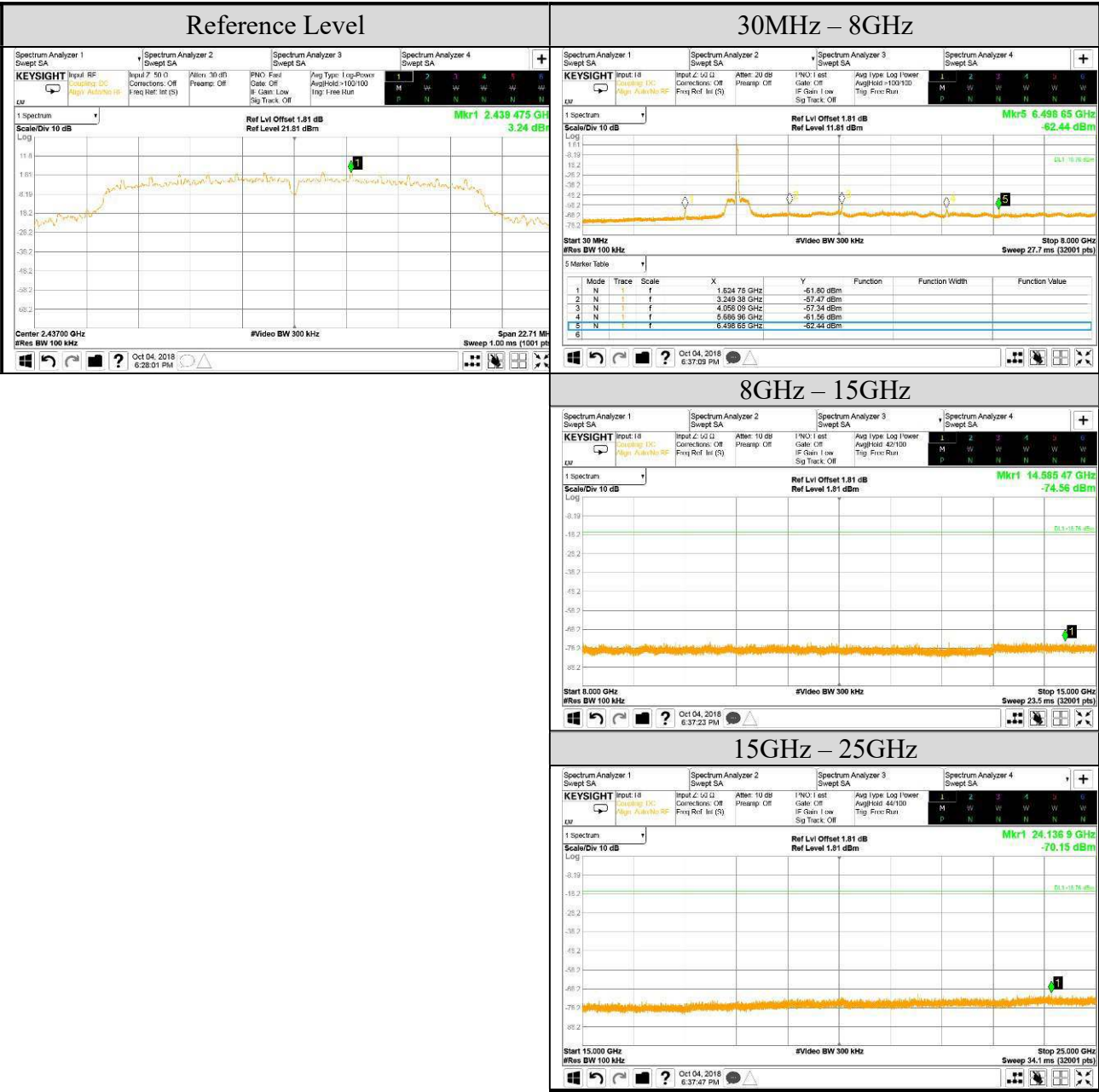
測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11b
		測試頻率	2462MHz



測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11g
		測試頻率	2412MHz



測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11g
		測試頻率	2437MHz



測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11g
		測試頻率	2462MHz



測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11n-HT20
		測試頻率	2412MHz



測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11n-HT20
		測試頻率	2437MHz



測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)	模式	802.11n-HT20
		測試頻率	2462MHz



7. 功率密度之量測

測試日期	2018/10/04	環境溫/濕度	22°C/51%
測試電壓	DC 3.6V (透過內建鋰電池供電)		

7.1. 功率密度

模式 (Mode)	測試頻率 (MHz)	功率密度 (dBm)	限制值 (dBm)
802.11b	2412	3.50	8
	2437	4.33	
	2462	4.15	
802.11g	2412	-1.42	
	2437	3.24	
	2462	-1.28	
802.11n-HT20	2412	-1.31	
	2437	2.79	
	2462	-1.21	

測試結果係依照 FCC 公告之 KDB558074 D01V04，且解析頻寬以 100kHz 量測其測試結果較 3kHz 嚴格

7.2. 功率密度之量測圖

