

附錄 一

受測裝置之測試結果

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1. 場強輻射之量測

【經實驗室評估量測後，以最差之調變方式 GFSK 進行本章節之測試】

對受測物裝置之其他不必要之發射(測至本地振盪頻率之 10 次諧波)，實驗室對左右耳機以低、中、高頻率來進行量測，並將所有模式之掃頻圖隨案件所附。所得讀值資料請見章節 1.1 ~ 1.2：

模式	動作狀態	基本頻率	量測頻率範圍
BT-GFSK (左耳機)	發射	2402MHz	1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			18000-25000MHz
		2441MHz	1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			18000-25000MHz
		2480MHz*	30-1000MHz
			1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			18000-25000MHz
	接收	2441MHz	30-1000MHz
			1000-3000MHz
			3000-8000MHz
			8000-18000MHz
BT-GFSK (右耳機)	發射	2402MHz	1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			18000-25000MHz
		2441MHz	1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			18000-25000MHz
		2480MHz*	30-1000MHz
			1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			18000-25000MHz
	接收	2441MHz	30-1000MHz
			1000-3000MHz
			3000-8000MHz
			8000-18000MHz
			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 1.3。

模式	動作狀態	基本頻率	量測頻率範圍
BT-GFSK (左耳機)	發射	2402MHz	2310-2430MHz
		2480MHz	2450-2530MHz
BT-8DPSK (左耳機)	發射	2402MHz	2310-2430MHz
		2480MHz	2450-2530MHz
BT-GFSK (右耳機)	發射	2402MHz	2310-2430MHz
		2480MHz	2450-2530MHz
BT-8DPSK (右耳機)	發射	2402MHz	2310-2430MHz
		2480MHz	2450-2530MHz

測試日期	2019/01/29	環境溫/濕度	22°C/51%
測試電壓	DC 3.7V (經內建鋰電池供電)		

1.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	GFSK (左耳機)	Frequency	TX 2480MHz
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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
93.05	16.17	2.18	7.19	25.54	43.50	17.96	Peak
101.78	17.60	2.29	6.53	26.42	43.50	17.08	Peak
353.01	20.94	5.01	2.85	28.80	46.00	17.20	Peak
441.28	22.55	5.94	2.34	30.83	46.00	15.17	Peak
796.30	25.88	7.59	1.93	35.40	46.00	10.60	Peak
926.28	27.08	8.35	1.24	36.67	46.00	9.33	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
117.30	18.66	2.47	8.22	29.35	43.50	14.15	Peak
245.34	18.84	3.77	4.34	26.95	46.00	19.05	Peak
320.03	20.06	4.58	7.04	31.68	46.00	14.32	Peak
536.34	23.72	6.55	1.77	32.04	46.00	13.96	Peak
656.62	24.78	6.95	1.56	33.29	46.00	12.71	Peak
929.19	27.12	8.37	2.11	37.60	46.00	8.40	Peak

Mode	GFSK (左耳機)	Frequency	RX 2441MHz
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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
37.76	20.76	1.36	6.15	28.27	40.00	11.73	Peak
101.78	17.60	2.29	6.35	26.24	43.50	17.26	Peak
630.43	24.71	6.86	1.71	33.28	46.00	12.72	Peak
761.38	25.53	7.41	2.28	35.22	46.00	10.78	Peak
862.26	26.49	7.97	1.81	36.27	46.00	9.73	Peak
987.39	27.69	8.74	1.72	38.15	54.00	15.85	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
119.24	18.79	2.50	7.37	28.66	43.50	14.84	Peak
240.49	18.57	3.73	4.37	26.67	46.00	19.33	Peak
319.06	20.02	4.57	6.90	31.49	46.00	14.51	Peak
593.57	24.55	6.73	2.01	33.29	46.00	12.71	Peak
734.22	25.25	7.27	1.82	34.34	46.00	11.66	Peak
924.34	27.08	8.35	1.58	37.01	46.00	8.99	Peak

Mode	GFSK (右耳機)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
93.05	16.17	2.18	7.93	26.28	43.50	17.22	Peak
101.78	17.60	2.29	6.41	26.30	43.50	17.20	Peak
263.77	19.26	3.95	2.52	25.73	46.00	20.27	Peak
626.55	24.71	6.85	1.34	32.90	46.00	13.10	Peak
726.46	25.17	7.23	1.94	34.34	46.00	11.66	Peak
952.47	27.35	8.52	1.04	36.91	46.00	9.09	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
101.78	17.60	2.29	5.44	25.33	43.50	18.17	Peak
117.30	18.66	2.47	7.41	28.54	43.50	14.96	Peak
238.55	18.41	3.71	4.75	26.87	46.00	19.13	Peak
322.94	20.15	4.63	7.36	32.14	46.00	13.86	Peak
526.64	23.57	6.52	2.47	32.56	46.00	13.44	Peak
951.50	27.35	8.52	1.96	37.83	46.00	8.17	Peak

Mode	GFSK (右耳機)	Frequency	RX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
93.05	16.17	2.18	7.00	25.35	43.50	18.15	Peak
101.78	17.60	2.29	6.86	26.75	43.50	16.75	Peak
372.41	21.41	5.24	2.51	29.16	46.00	16.84	Peak
590.66	24.52	6.72	0.71	31.95	46.00	14.05	Peak
895.24	26.76	8.14	1.83	36.73	46.00	9.27	Peak
963.14	27.46	8.59	2.08	38.13	54.00	15.87	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
101.78	17.60	2.29	4.65	24.54	43.50	18.96	Peak
117.30	18.66	2.47	7.57	28.70	43.50	14.80	Peak
242.43	18.68	3.74	4.05	26.47	46.00	19.53	Peak
322.94	20.15	4.63	7.84	32.62	46.00	13.38	Peak
846.74	26.36	7.89	3.20	37.45	46.00	8.55	Peak
981.57	27.66	8.72	1.46	37.84	54.00	16.16	Peak

1.2. 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	GFSK (左耳機)	Frequency	TX 2402MHz
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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
4805.00	34.22	11.42	14.35	59.99	74.00	14.01	Peak
9610.00	36.82	18.96	-0.78	55.00	74.00	19.00	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4805.00	59.99	-30.75		29.24	54.00	24.76	Average
9610.00	55.00	-30.75		24.25	54.00	29.75	Average

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
4805.00	34.22	11.42	12.06	57.70	74.00	16.30	Peak
9610.00	36.82	18.96	-2.35	53.43	74.00	20.57	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4805.00	57.70	-30.75		26.95	54.00	27.05	Average
9610.00	53.43	-30.75		22.68	54.00	31.32	Average

Mode	GFSK (左耳機)	Frequency	TX 2441MHz
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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
4880.00	34.25	13.00	14.55	61.80	74.00	12.20	Peak
9765.00	37.03	19.25	-0.49	55.79	74.00	18.21	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4880.00	61.80	-30.75		31.05	54.00	22.95	Average
9765.00	55.79	-30.75		25.04	54.00	28.96	Average

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
4880.00	34.25	13.00	9.89	57.14	74.00	16.86	Peak

Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4880.00	57.14	-30.75	26.39	54.00	27.61	Average

Mode	GFSK (左耳機)	Frequency	TX 2480MHz
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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
4960.00	34.29	13.21	16.28	63.78	74.00	10.22	Peak

Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4960.00	63.78	-30.75	33.03	54.00	20.97	Average

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
4960.00	34.29	13.21	8.05	55.55	74.00	18.45	Peak

Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4960.00	55.55	-30.75	24.80	54.00	29.20	Average

Mode	GFSK (右耳機)	Frequency	TX 2402MHz
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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
4805.00	34.22	11.42	16.20	61.84	74.00	12.16	Peak
9610.00	36.82	18.96	-0.53	55.25	74.00	18.75	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4805.00	61.84	-30.75		31.09	54.00	22.91	Average
9610.00	55.25	-30.75		24.50	54.00	29.50	Average

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
4805.00	34.22	11.42	16.51	62.15	74.00	11.85	Peak

Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4805.00	62.15	-30.75	31.40	54.00	22.60	Average

Mode	GFSK (右耳機)	Frequency	TX 2441MHz
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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
4880.00	34.25	13.00	16.94	64.19	74.00	9.81	Peak
9765.00	37.03	19.25	-1.61	54.67	74.00	19.33	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4880.00	64.19	-30.75		33.44	54.00	20.56	Average
9765.00	54.67	-30.75		23.92	54.00	30.08	Average

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
4880.00	34.25	13.00	14.77	62.02	74.00	11.98	Peak

Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4880.00	62.02	-30.75	31.27	54.00	22.73	Average

Mode	GFSK (右耳機)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

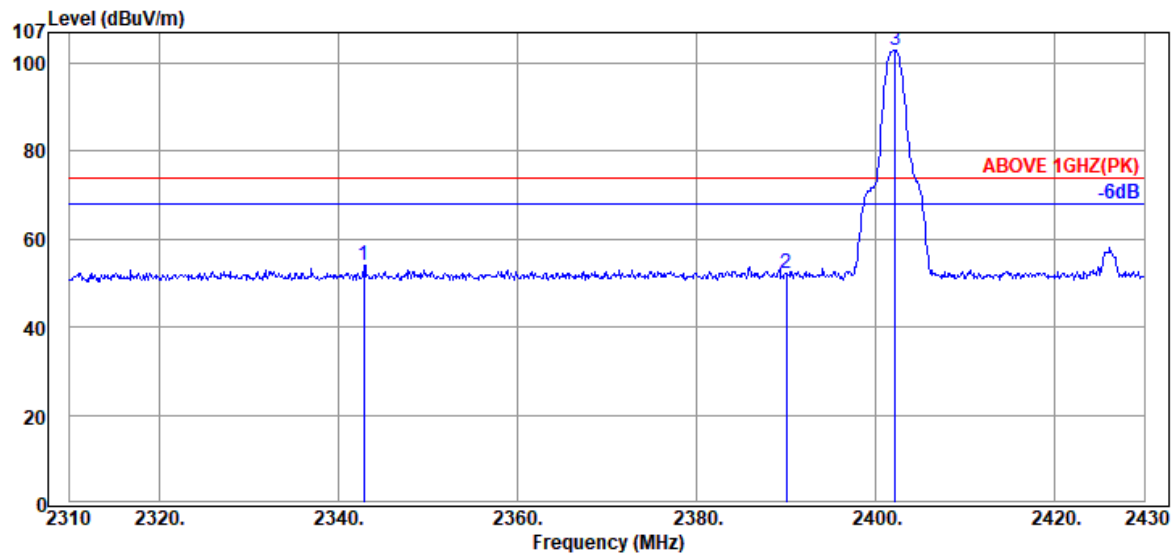
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.00	34.29	13.21	18.91	66.41	74.00	7.59	Peak
9920.00	37.22	19.51	-2.73	54.00	74.00	20.00	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4960.00	66.41	-30.75		35.66	54.00	18.34	Average
9920.00	54.00	-30.75		23.25	54.00	30.75	Average

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
4960.00	34.29	13.21	14.37	61.87	74.00	12.13	Peak
Frequency (MHz)	Peak Value (dBμV/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
4960.00	61.87	-30.75		31.12	54.00	22.88	Average

1.3. 禁用頻帶量測結果 (其他不必要發射)

Mode	GFSK (左耳機)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

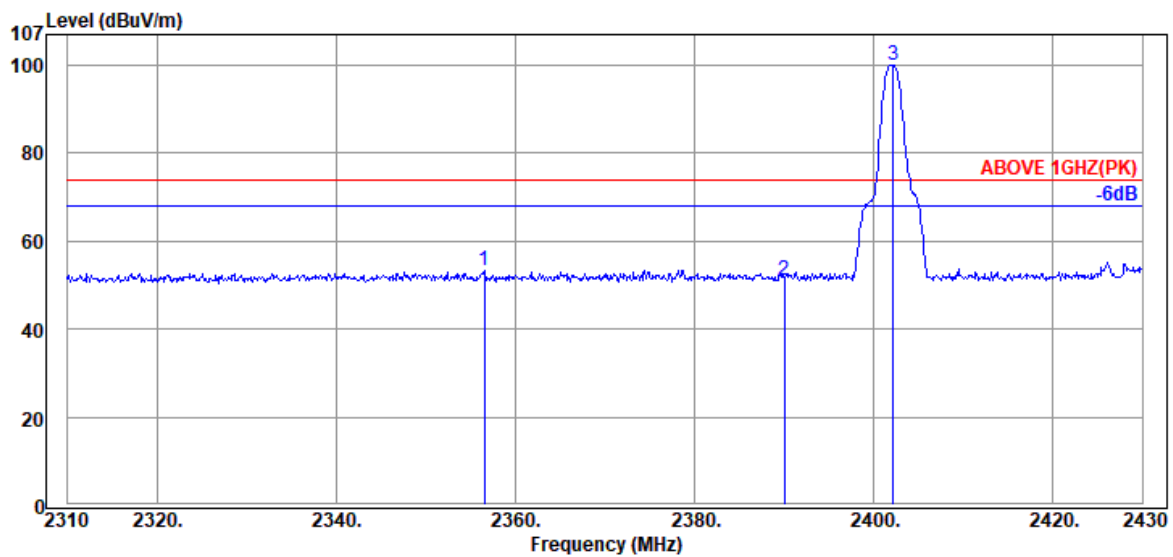
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.88	32.08	7.82	14.17	54.07	74.00	19.93	Peak
2390.04	32.16	7.92	12.13	52.21	74.00	21.79	Peak
@ 2402.16	32.16	7.92	62.81	102.89	---	---	Peak

Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.88	54.07	-30.75	23.32	54.00	30.68	Average
2390.04	52.21	-30.75	21.46	54.00	32.54	Average

備註:

- 1.“@”為主波，在此章節是不予以判定。
2. Duty Cycle Correction Factor=20log (dwell time/100ms) = 20log (2.9ms/100ms) = -30.75
3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (左耳機)	Frequency	TX 2402MHz
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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
2356.56	32.11	7.86	13.47	53.44	74.00	20.56	Peak
2390.04	32.16	7.92	11.00	51.08	74.00	22.92	Peak
@ 2402.16	32.16	7.92	59.95	100.03	---	---	Peak
Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2356.56	53.44	-30.75		22.69	54.00	31.31	Average
2390.04	51.08	-30.75		20.33	54.00	33.67	Average

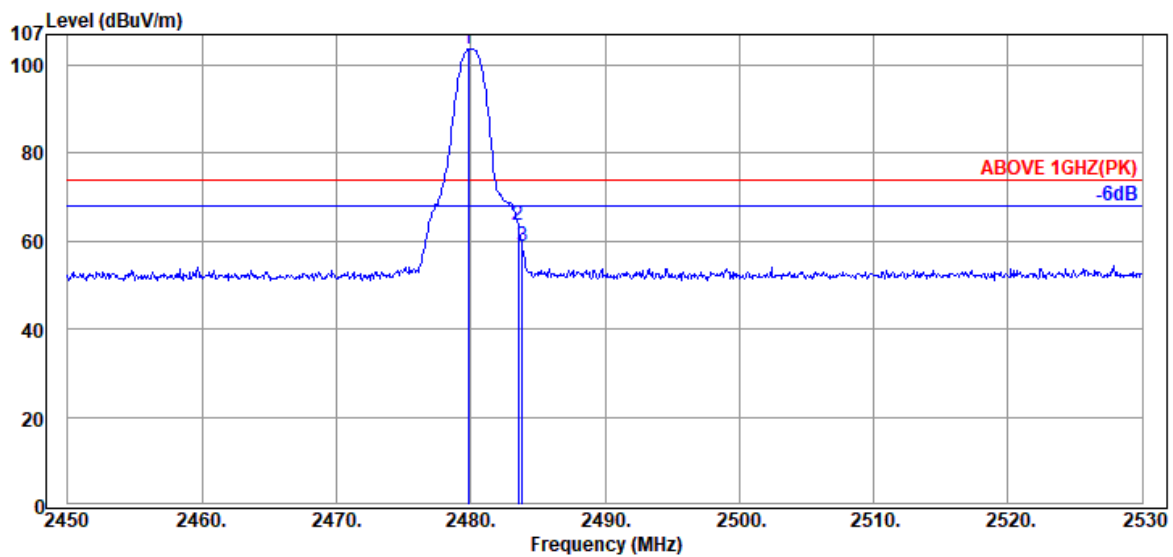
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (左耳機)	Frequency	TX 2480MHz
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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
@	2479.84	32.28	7.90	63.46	103.64	---	---	Peak
	2483.52	32.28	7.90	23.54	63.72	74.00	10.28	Peak
	2483.84	32.28	7.90	18.53	58.71	74.00	15.29	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	63.72	-30.75		32.97	54.00	21.03	Average
	2483.84	58.71	-30.75		27.96	54.00	26.04	Average

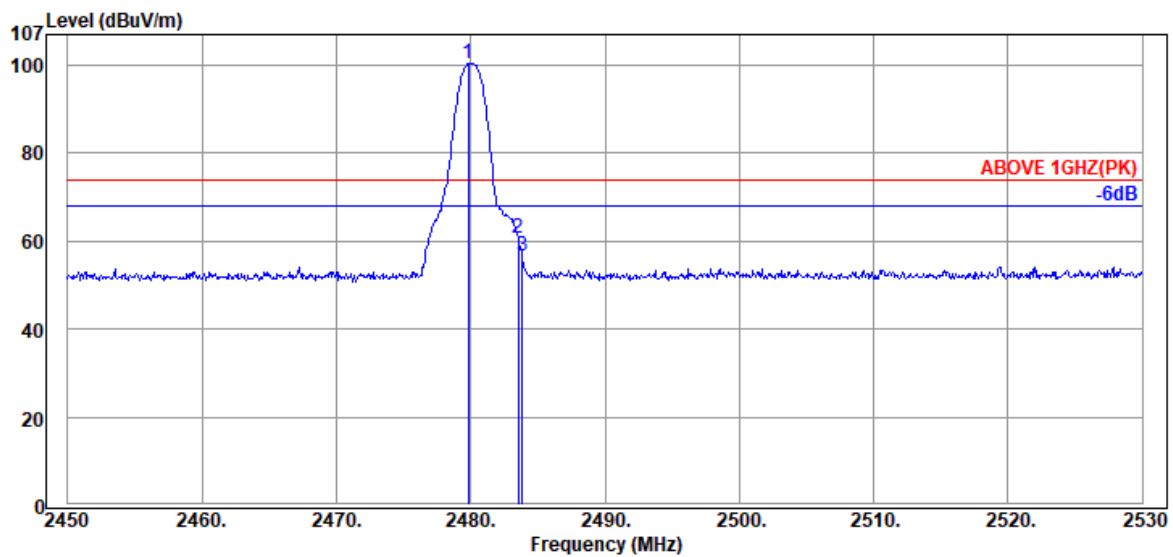
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (左耳機)	Frequency	TX 2480MHz
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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
@	2479.84	32.28	7.90	60.20	100.38	---	---	Peak
	2483.52	32.28	7.90	20.31	60.49	74.00	13.51	Peak
	2483.84	32.28	7.90	16.29	56.47	74.00	17.53	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	60.49	-30.75		29.74	54.00	24.26	Average
	2483.84	56.47	-30.75		25.72	54.00	28.28	Average

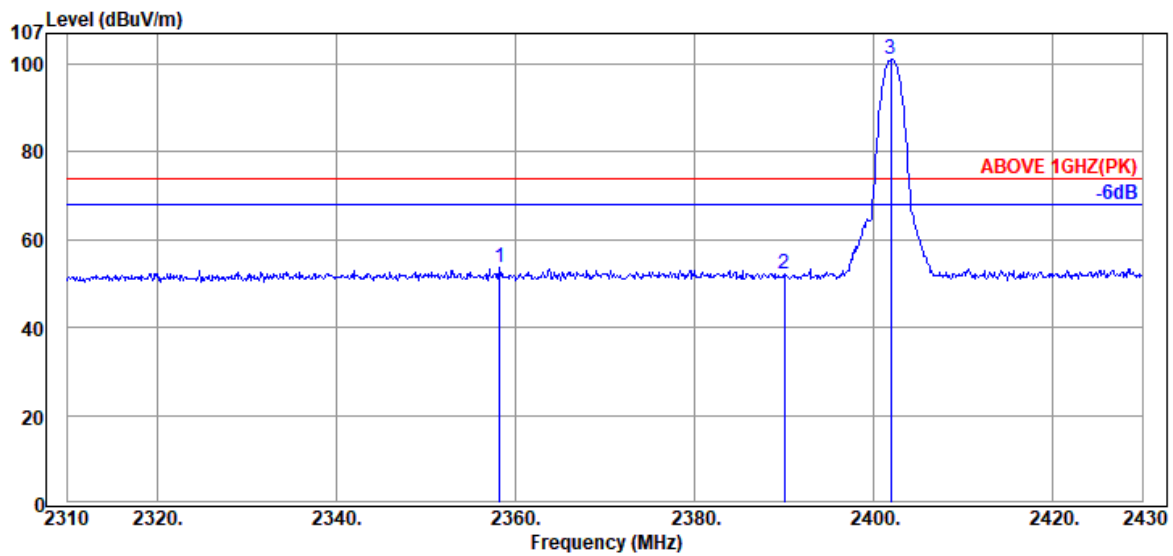
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (左耳機)	Frequency	TX 2402MHz
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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
2358.24	32.11	7.86	13.87	53.84	74.00	20.16	Peak
2390.04	32.16	7.92	12.06	52.14	74.00	21.86	Peak
@ 2401.92	32.16	7.92	61.15	101.23	---	---	Peak

Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2358.24	53.84	-30.75	23.09	54.00	30.91	Average
2390.04	52.14	-30.75	21.39	54.00	32.61	Average

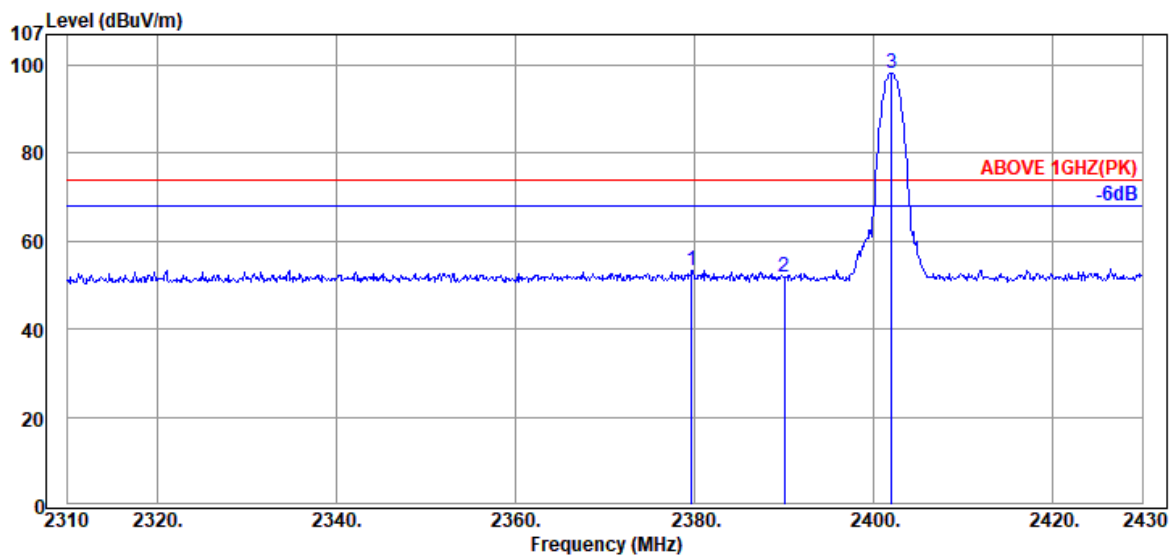
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor=20log (dwell time/100ms) = 20log (2.9ms/100ms) = -30.75

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (左耳機)	Frequency	TX 2402MHz
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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
2379.72	32.13	7.89	13.47	53.49	74.00	20.51	Peak
2390.04	32.16	7.92	11.84	51.92	74.00	22.08	Peak
@ 2402.04	32.16	7.92	58.28	98.36	---	---	Peak
Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2379.72	53.49	-30.75		22.74	54.00	31.26	Average
2390.04	51.92	-30.75		21.17	54.00	32.83	Average

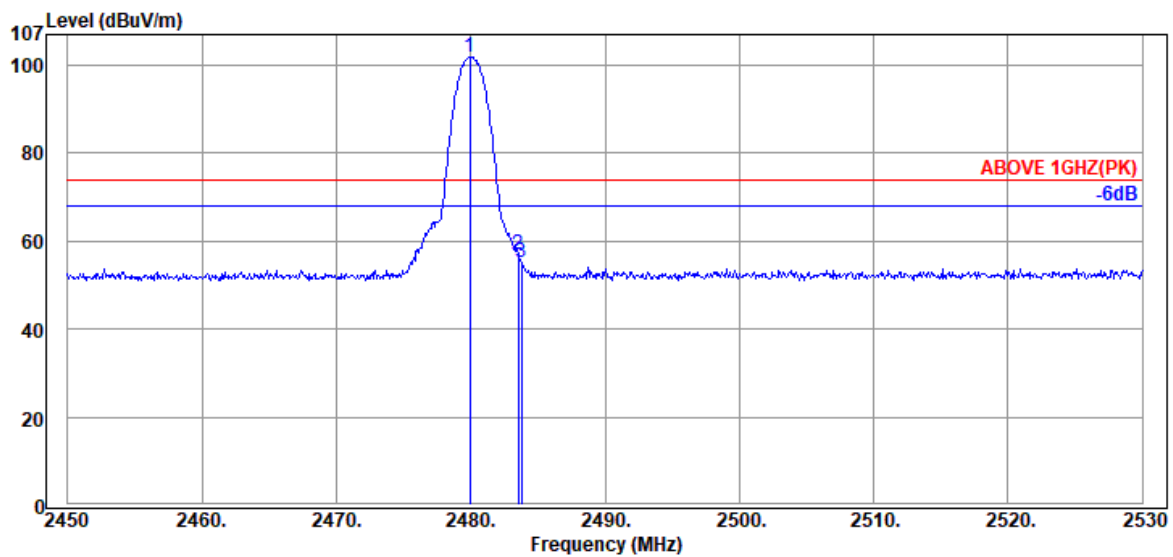
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (左耳機)	Frequency	TX 2480MHz
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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
@	2479.92	32.28	7.90	61.63	101.81	---	---	Peak
	2483.52	32.28	7.90	16.78	56.96	74.00	17.04	Peak
	2483.76	32.28	7.90	15.12	55.30	74.00	18.70	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	56.96	-30.75		26.21	54.00	27.79	Average
	2483.76	55.30	-30.75		24.55	54.00	29.45	Average

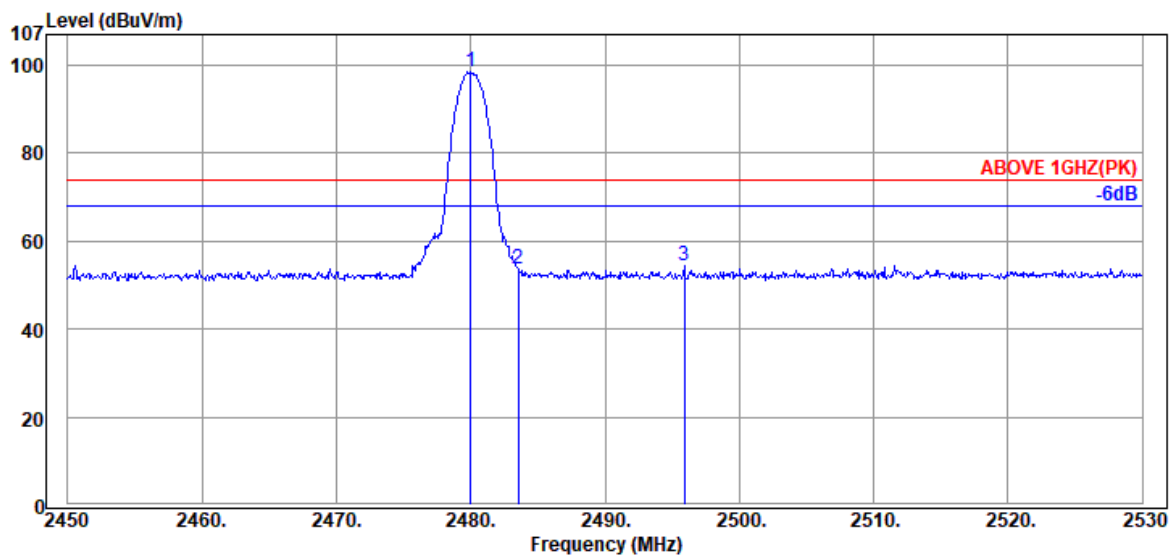
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (左耳機)	Frequency	TX 2480MHz
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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
@	2480.00	32.28	7.90	58.31	98.49	---	---	Peak
	2483.52	32.28	7.90	13.57	53.75	74.00	20.25	Peak
	2495.92	32.30	7.90	14.10	54.30	74.00	19.70	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	53.75	-30.75		23.00	54.00	31.00	Average
	2495.92	54.30	-30.75		23.55	54.00	30.45	Average

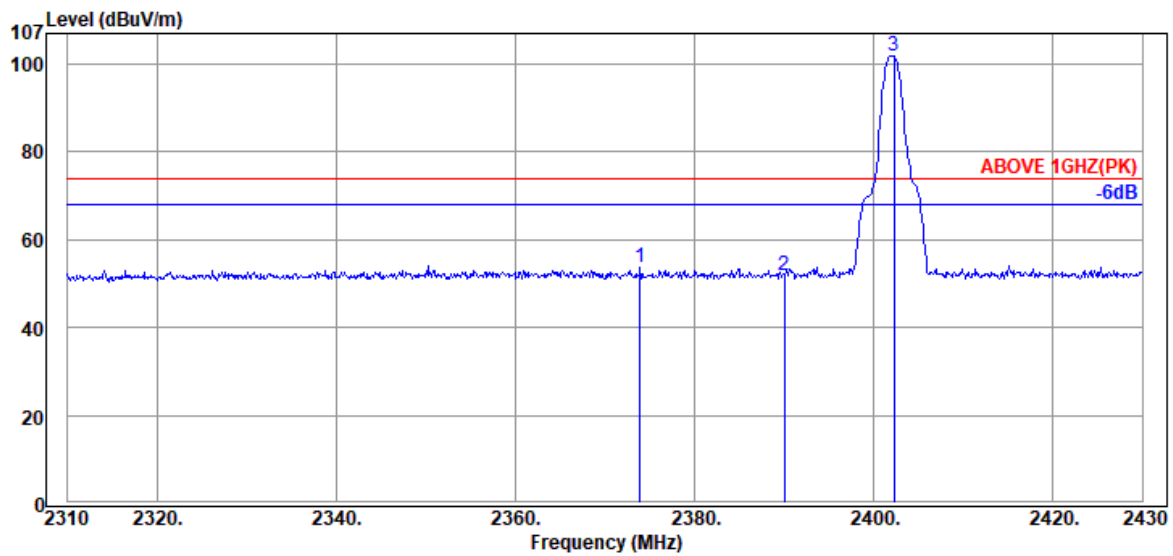
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (右耳機)	Frequency	TX 2402MHz
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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
2373.96	32.13	7.89	13.70	53.72	74.00	20.28	Peak
2390.04	32.16	7.92	11.89	51.97	74.00	22.03	Peak
@ 2402.28	32.16	7.92	61.91	101.99	---	---	Peak

Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2373.96	53.72	-30.75	22.97	54.00	31.03	Average
2390.04	51.97	-30.75	21.22	54.00	32.78	Average

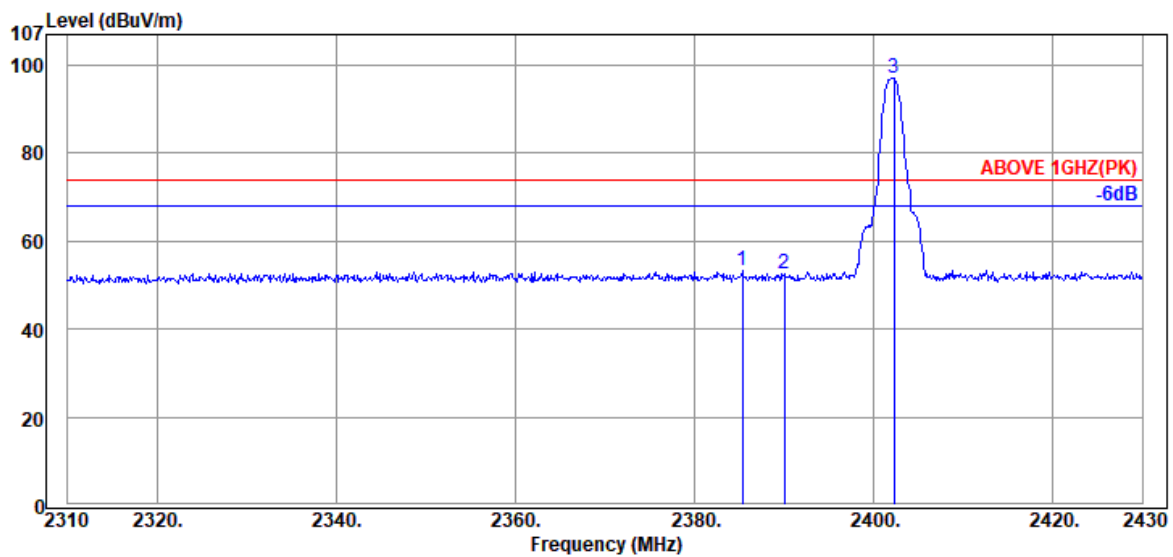
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor=20log (dwell time/100ms) = 20log (2.9ms/100ms) = -30.75

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (右耳機)	Frequency	TX 2402MHz
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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
2385.36	32.13	7.89	13.37	53.39	74.00	20.61	Peak
2390.04	32.16	7.92	12.43	52.51	74.00	21.49	Peak
@ 2402.28	32.16	7.92	56.93	97.01	---	---	Peak
Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.36	53.39	-30.75		22.64	54.00	31.36	Average
2390.04	52.51	-30.75		21.76	54.00	32.24	Average

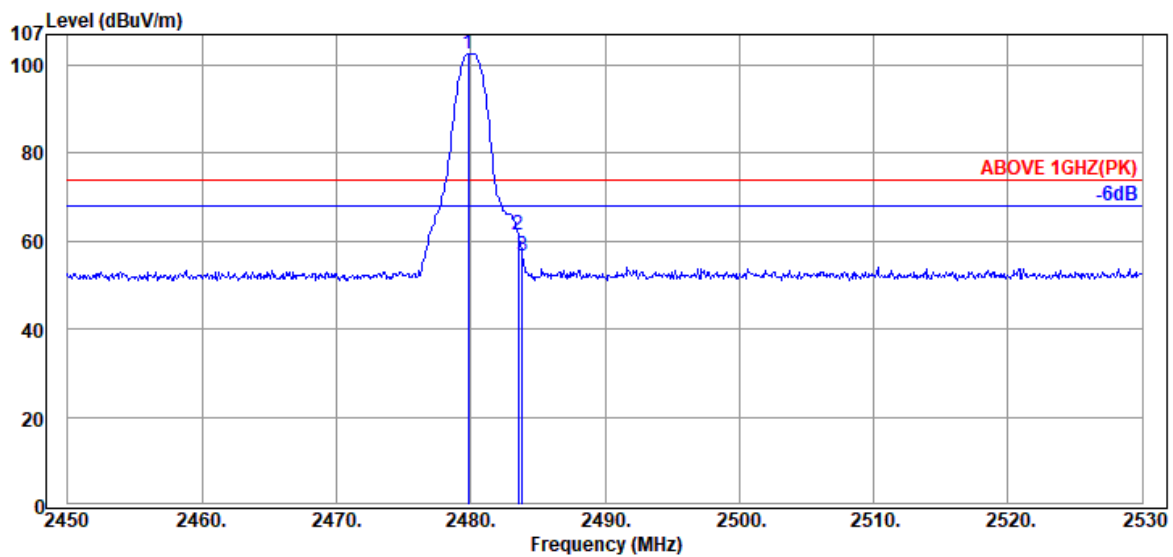
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (右耳機)	Frequency	TX 2480MHz
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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
@	2479.84	32.28	7.90	62.55	102.73	---	---	Peak
	2483.52	32.28	7.90	21.28	61.46	74.00	12.54	Peak
	2483.84	32.28	7.90	16.59	56.77	74.00	17.23	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	61.46	-30.75		30.71	54.00	23.29	Average
	2483.84	56.77	-30.75		26.02	54.00	27.98	Average

備註：“@”為主波，在此章節是不予以判定。

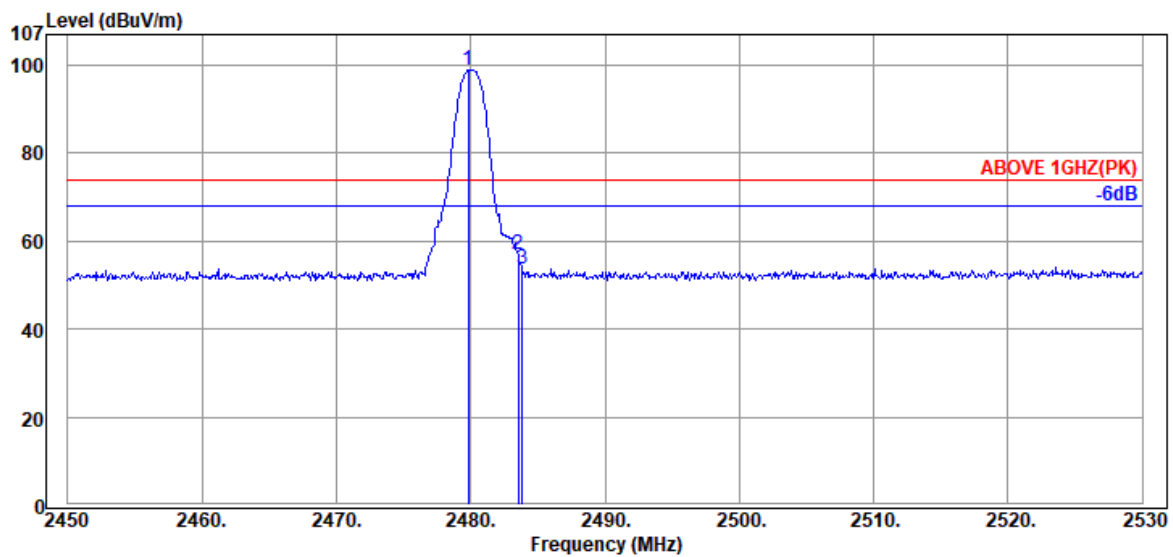
備註：

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor=20log (dwell time/100ms) = 20log (2.9ms/100ms) = -30.75

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	GFSK (右耳機)	Frequency	TX 2480MHz
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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
@	2479.84	32.28	7.90	58.78	98.96	---	---	Peak
	2483.52	32.28	7.90	16.99	57.17	74.00	16.83	Peak
	2483.84	32.28	7.90	13.62	53.80	74.00	20.20	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	57.17	-30.75		26.42	54.00	27.58	Average
	2483.84	53.80	-30.75		23.05	54.00	30.95	Average

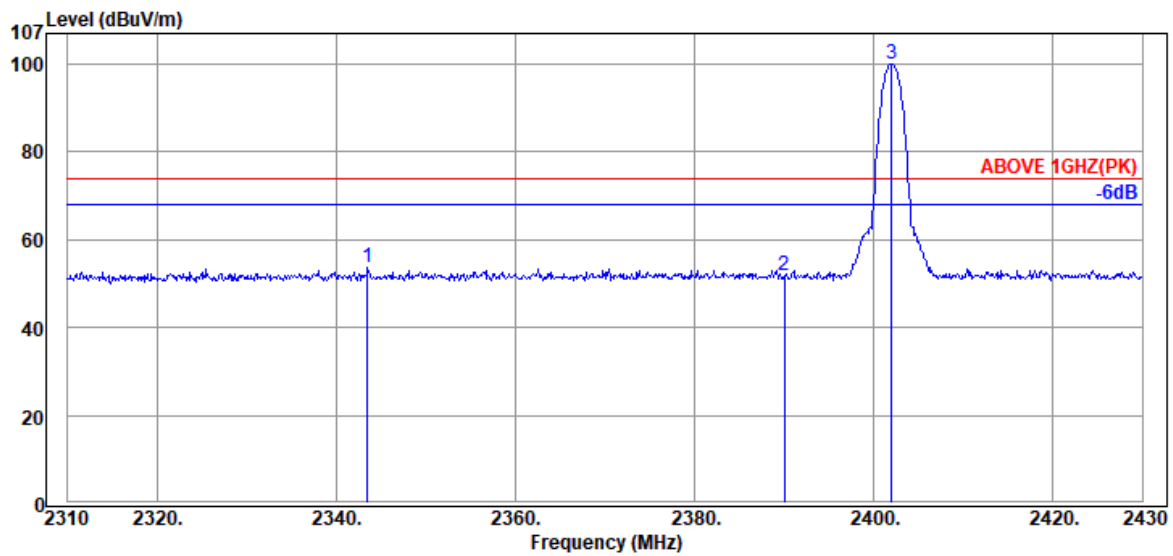
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (右耳機)	Frequency	TX 2402MHz
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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
2343.48	32.08	7.82	13.86	53.76	74.00	20.24	Peak
2390.04	32.16	7.92	11.87	51.95	74.00	22.05	Peak
@ 2402.04	32.16	7.92	59.96	100.04	---	---	Peak

Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)	Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2343.48	53.76	-30.75	23.01	54.00	30.99	Average
2390.04	51.95	-30.75	21.20	54.00	32.80	Average

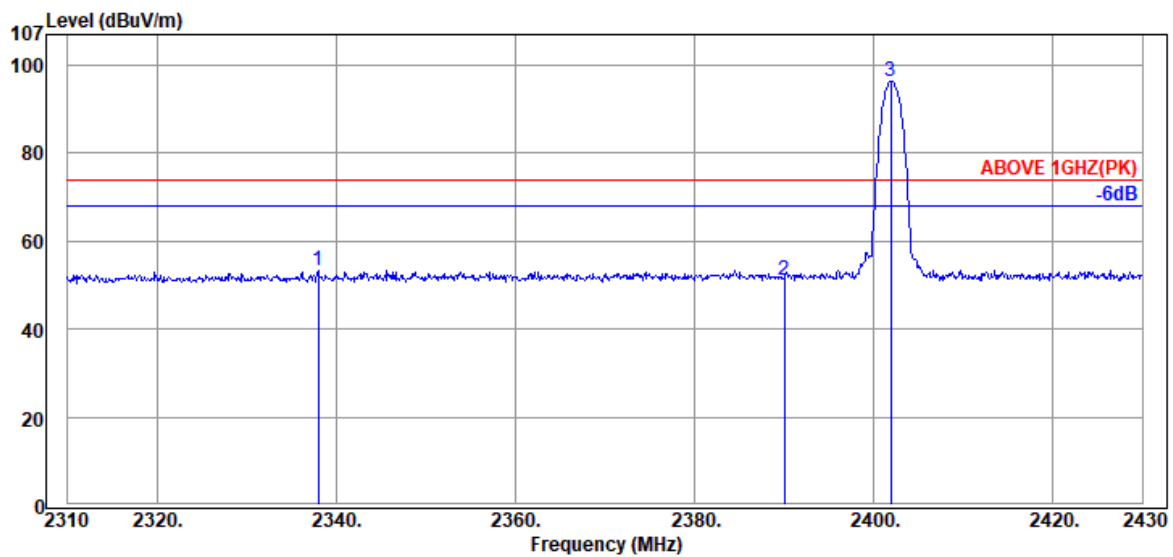
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor=20log (dwell time/100ms) = 20log (2.9ms/100ms) = -30.75

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (右耳機)	Frequency	TX 2402MHz
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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
2337.96	32.08	7.82	13.41	53.31	74.00	20.69	Peak
2390.04	32.16	7.92	11.19	51.27	74.00	22.73	Peak
@ 2401.92	32.16	7.92	56.39	96.47	---	---	Peak
Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2337.96	53.31	-30.75		22.56	54.00	31.44	Average
2390.04	51.27	-30.75		20.52	54.00	33.48	Average

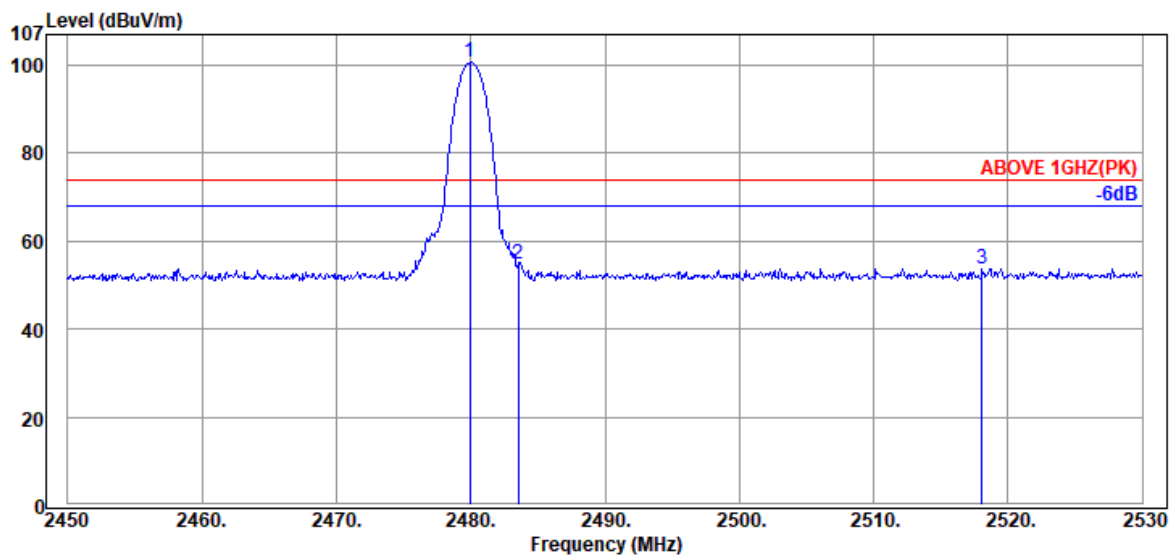
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (右耳機)	Frequency	TX 2480MHz
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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
@	2479.92	32.28	7.90	60.41	100.59	---	---	Peak
	2483.52	32.28	7.90	14.58	54.76	74.00	19.24	Peak
	2518.08	32.32	7.94	13.60	53.86	74.00	20.14	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	54.76	-30.75		24.01	54.00	29.99	Average
	2518.08	53.86	-30.75		23.11	54.00	30.89	Average

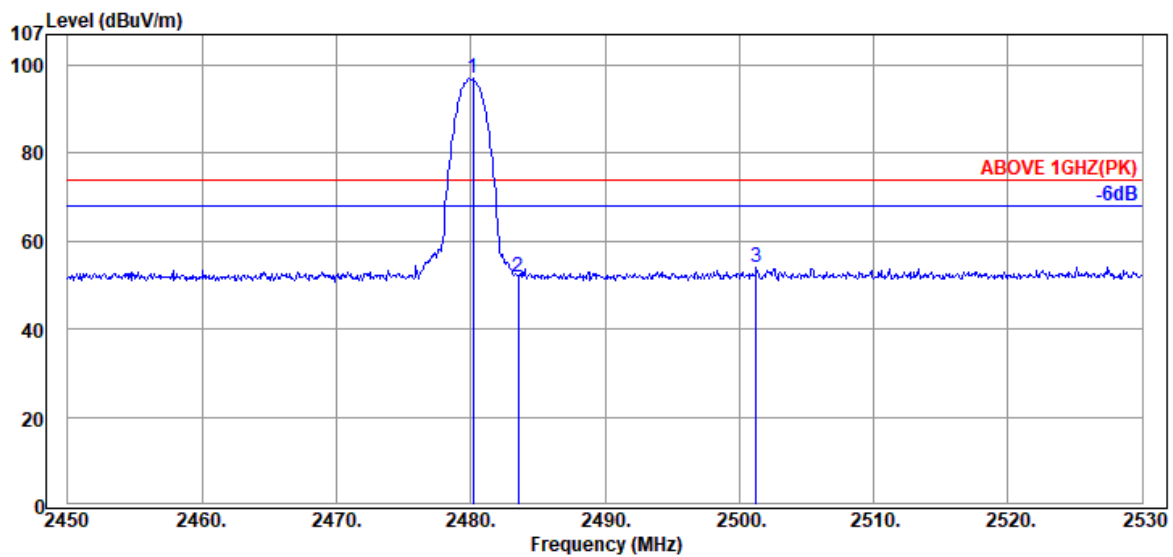
備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

Mode	8DPSK (右耳機)	Frequency	TX 2480MHz
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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
@	2480.16	32.28	7.90	56.80	96.98	---	---	Peak
	2483.52	32.28	7.90	11.83	52.01	74.00	21.99	Peak
	2501.28	32.30	7.90	13.91	54.11	74.00	19.89	Peak
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Duty Cycle Correction Factor (dB)		Average Value (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2483.52	52.01	-30.75		21.26	54.00	32.74	Average
	2501.28	54.11	-30.75		23.36	54.00	30.64	Average

備註:

1.“@”為主波，在此章節是不予以判定。

2. Duty Cycle Correction Factor= $20\log(\text{dwell time}/100\text{ms}) = 20\log(2.9\text{ms}/100\text{ms}) = -30.75$

3. Average value=Peak value+ Duty Cycle Correction Factor

2. 20dB 頻寬之量測

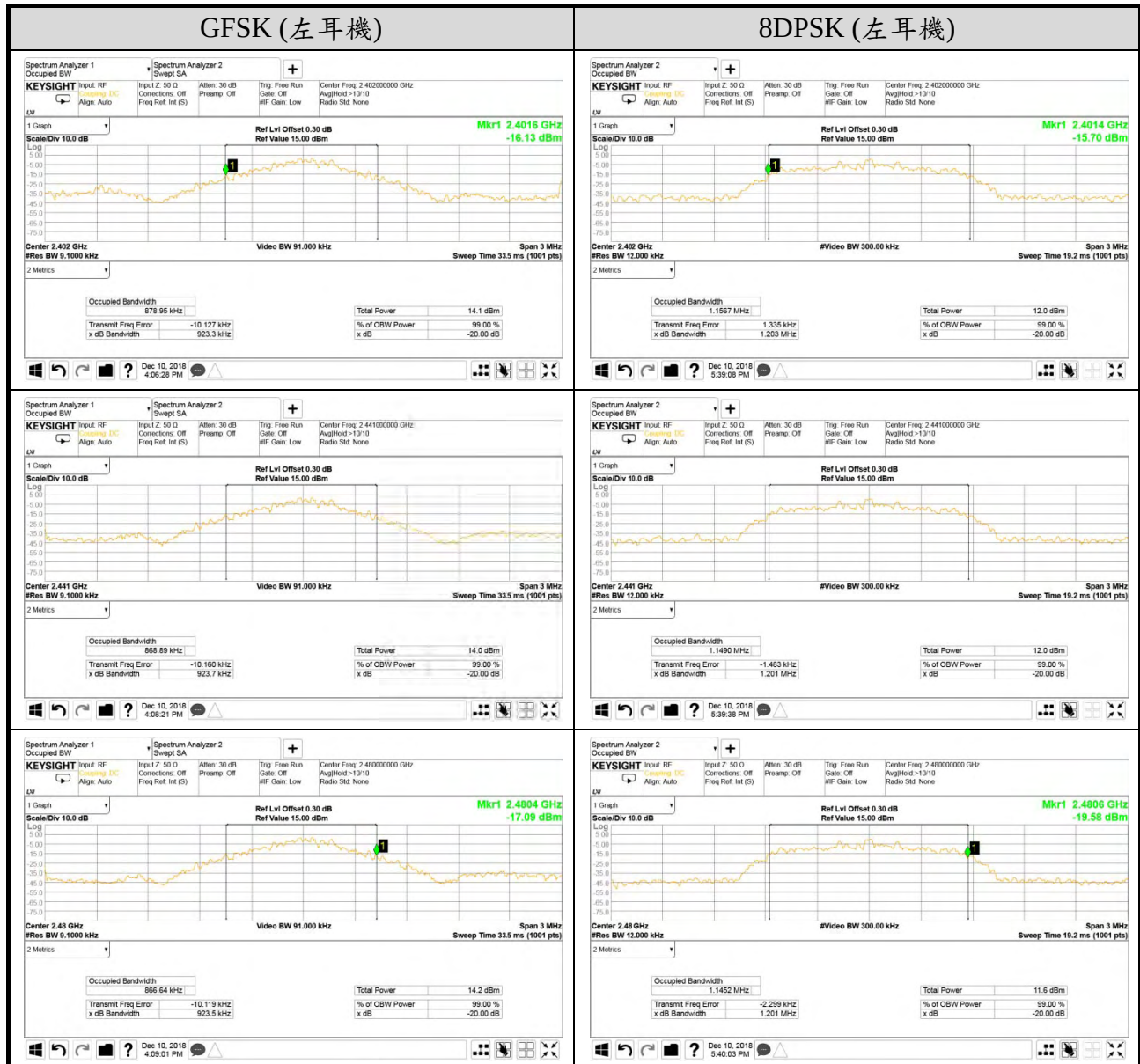
測試日期	2018/12/10	環境溫/濕度	24°C/50%
測試電壓	DC 3.7V (經內建鋰電池供電)		

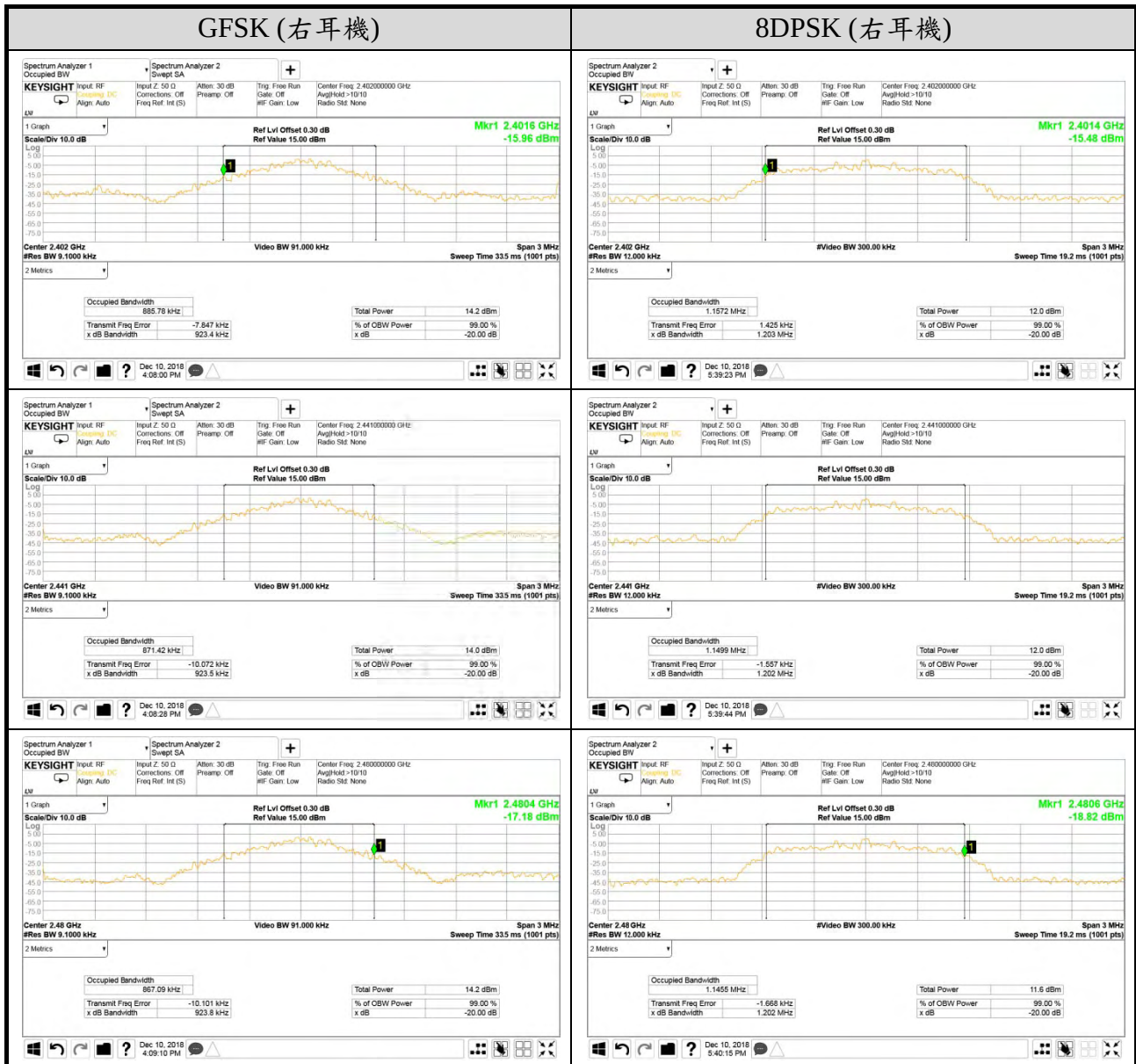
2.1. 20dB 頻寬

模式	測試頻率 (MHz)	20dB 頻寬 (MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK (左耳機)	2402	0.9233	0.616
	2441	0.9237	0.616
	2480	0.9235	0.616
8DPSK (左耳機)	2402	1.203	0.802
	2441	1.201	0.801
	2480	1.201	0.801

模式	測試頻率 (MHz)	20dB 頻寬 (MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK (右耳機)	2402	0.9234	0.616
	2441	0.9235	0.616
	2480	0.9238	0.616
8DPSK (右耳機)	2402	1.203	0.802
	2441	1.202	0.801
	2480	1.202	0.801

2.2. 20dB 頻寬之量測圖





3. 載波頻率間隔之量測

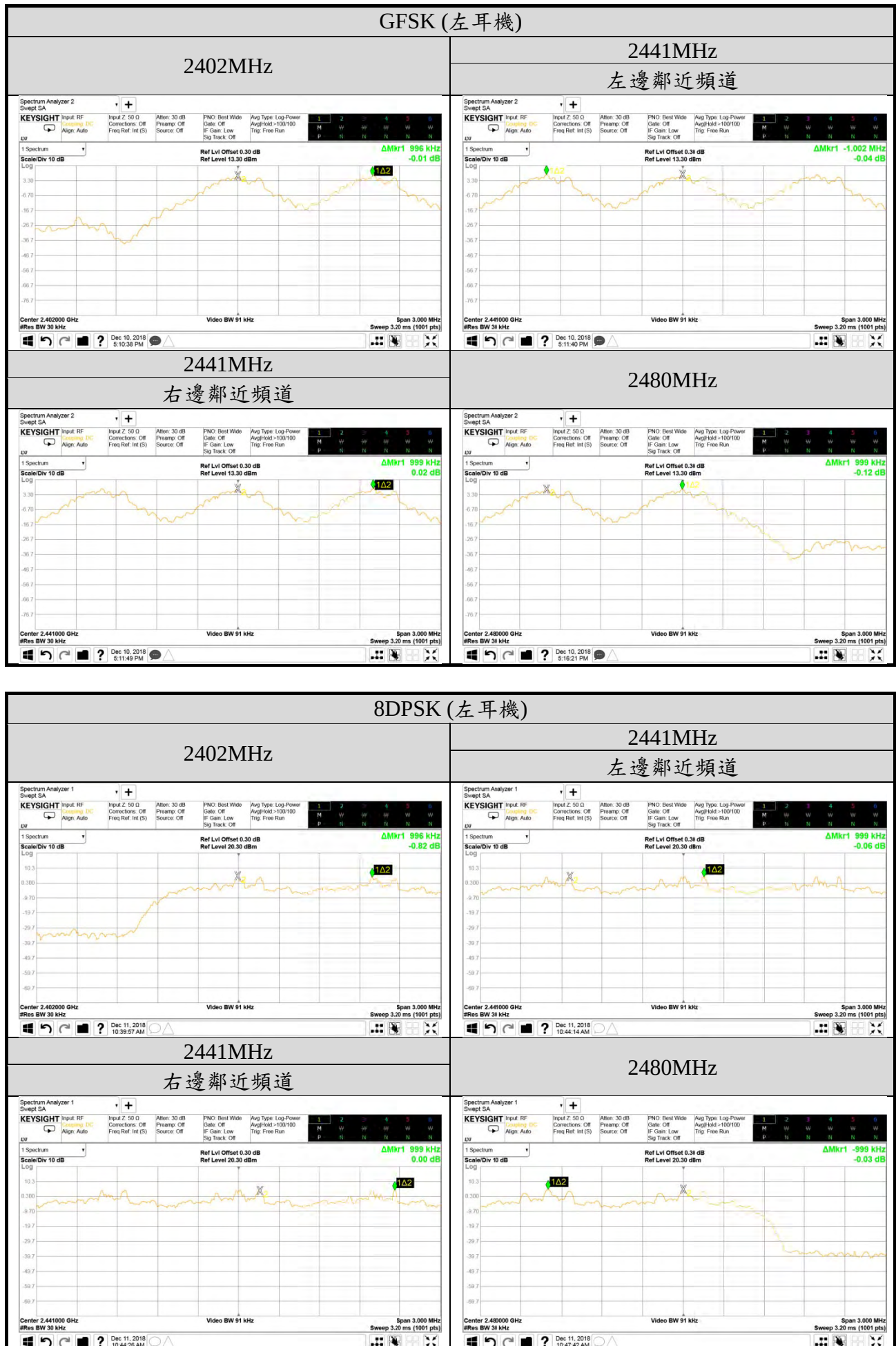
測試日期	2018/12/10 ~ 11	環境溫/濕度	23~24°C/50~52%
測試電壓	DC 3.7V (經內建鋰電池供電)		

3.1. 載波頻率間隔

模式	測試頻率 (MHz)	頻道間隔(MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK (左耳機)	2402	0.996	> 0.616
	2441 (左邊鄰近頻道)	1.002	
	2441 (右邊鄰近頻道)	0.999	
	2480	0.999	
8DPSK (左耳機)	2402	0.996	> 0.802
	2441 (左邊鄰近頻道)	0.999	
	2441 (右邊鄰近頻道)	0.999	
	2480	0.999	

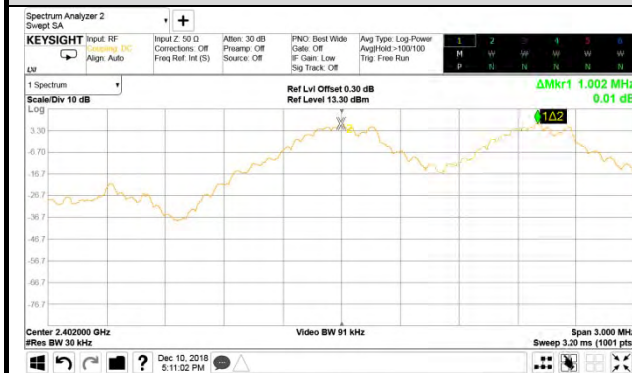
模式	測試頻率 (MHz)	頻道間隔(MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK (右耳機)	2402	1.002	> 0.616
	2441 (左邊鄰近頻道)	1.002	
	2441 (右邊鄰近頻道)	1.005	
	2480	1.002	
8DPSK (右耳機)	2402	0.999	> 0.802
	2441 (左邊鄰近頻道)	0.999	
	2441 (右邊鄰近頻道)	0.996	
	2480	1.002	

3.2. 載波頻率間隔之量測圖



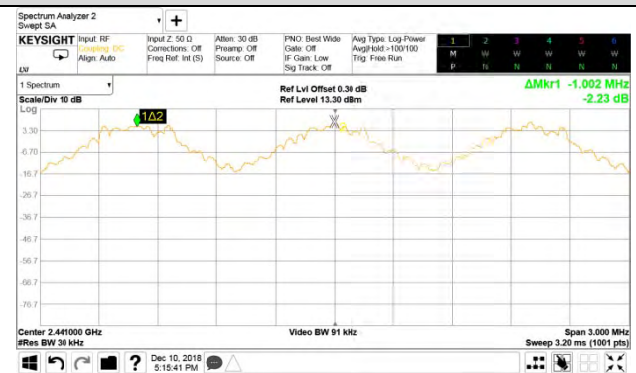
GFSK (右耳機)

2402MHz



2441MHz

左邊鄰近頻道

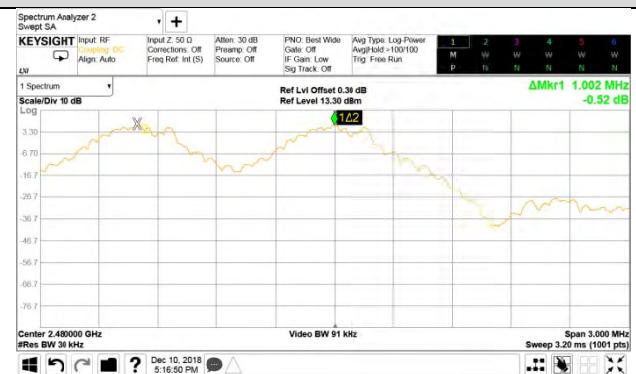


2441MHz

右邊鄰近頻道

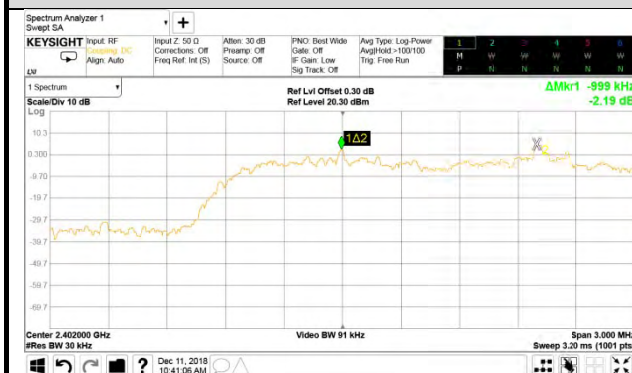


2480MHz



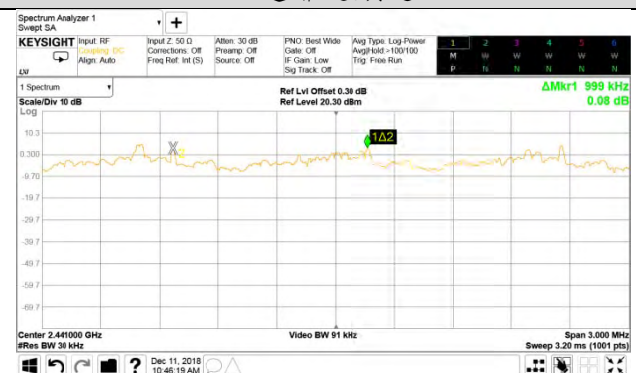
8DPSK (右耳機)

2402MHz



2441MHz

左邊鄰近頻道

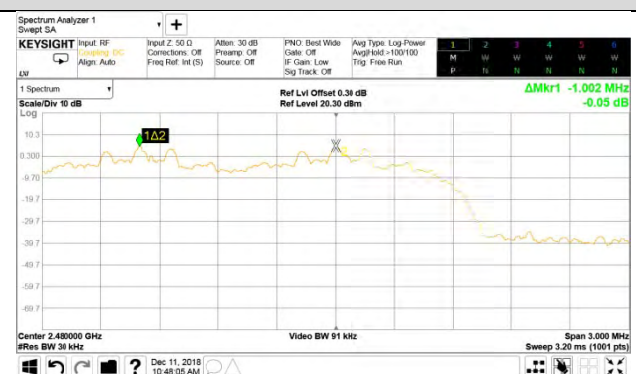


2441MHz

右邊鄰近頻道

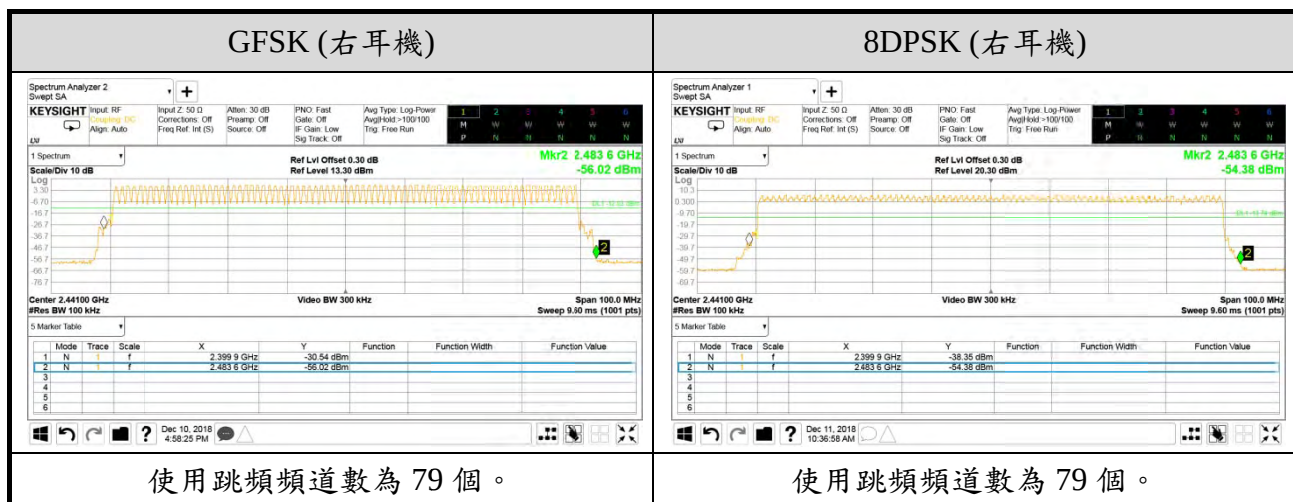
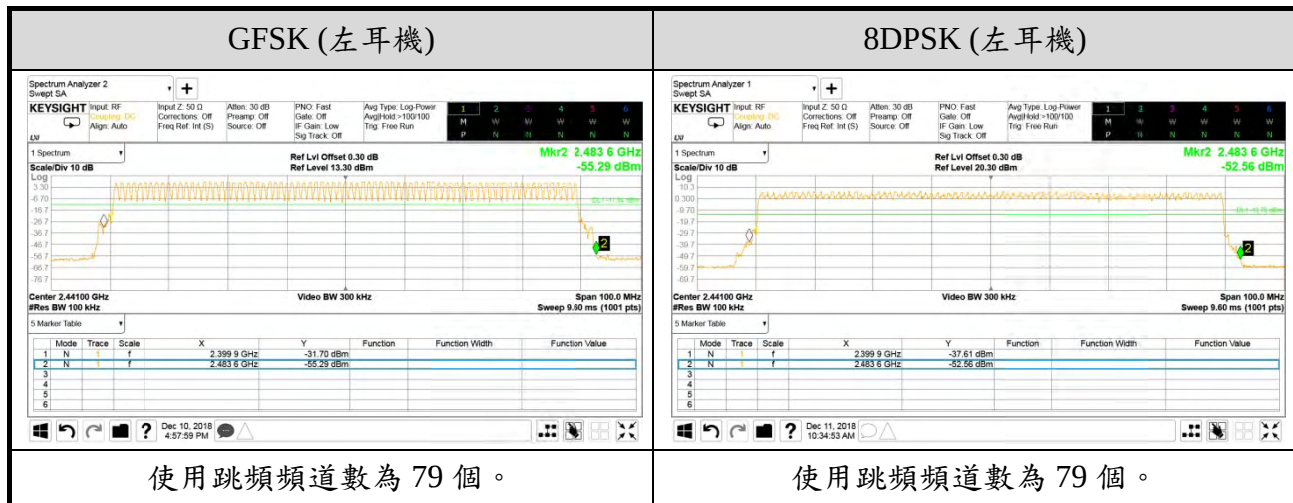


2480MHz



4. 跳頻頻率數目之量測

測試日期	2018/12/10 ~ 11	環境溫/濕度	23~24°C/50~52%
測試電壓	DC 3.7V (經內建鋰電池供電)		



5. 佔用時間(停留時間)之量測

測試日期	2018/12/10 ~ 11	環境溫/濕度	23~24°C/50~52%
測試電壓	DC 3.7V (經內建鋰電池供電)		

5.1. 佔用時間(停留時間)

模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK (左耳機)	2402	DH1	10	0.390	123.240	<400
		DH3	5	1.642	259.436	<400
		DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.642 \text{ ms} = 259.436 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

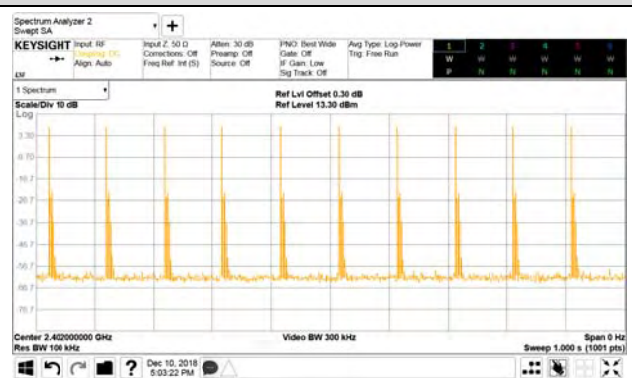
$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

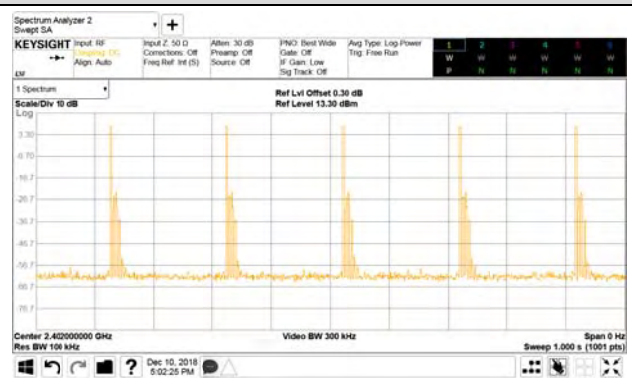
GFSK (左耳機)

2402MHz

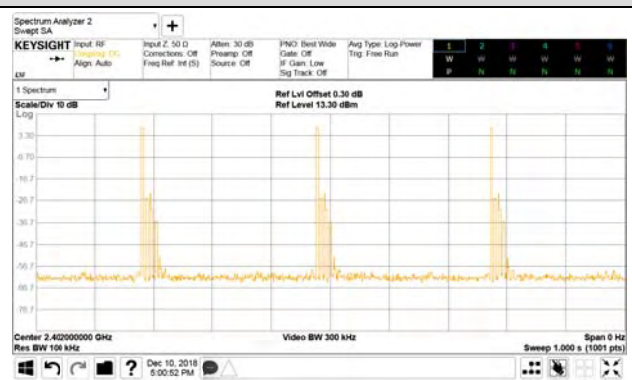
DH1



DH3



DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK (左耳機)	2441	DH1	10	0.390	123.240	<400
		DH3	5	1.642	259.436	<400
		DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.642 \text{ ms} = 259.436 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

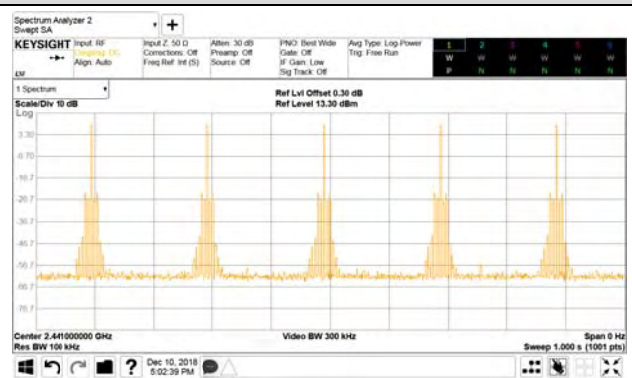
GFSK (左耳機)

2441MHz

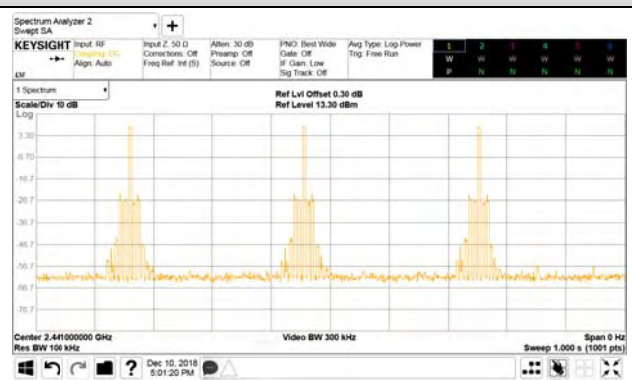
DH1



DH3



DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK (左耳機)	2480	DH1	10	0.390	123.240	<400
		DH3	5	1.642	259.436	<400
		DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

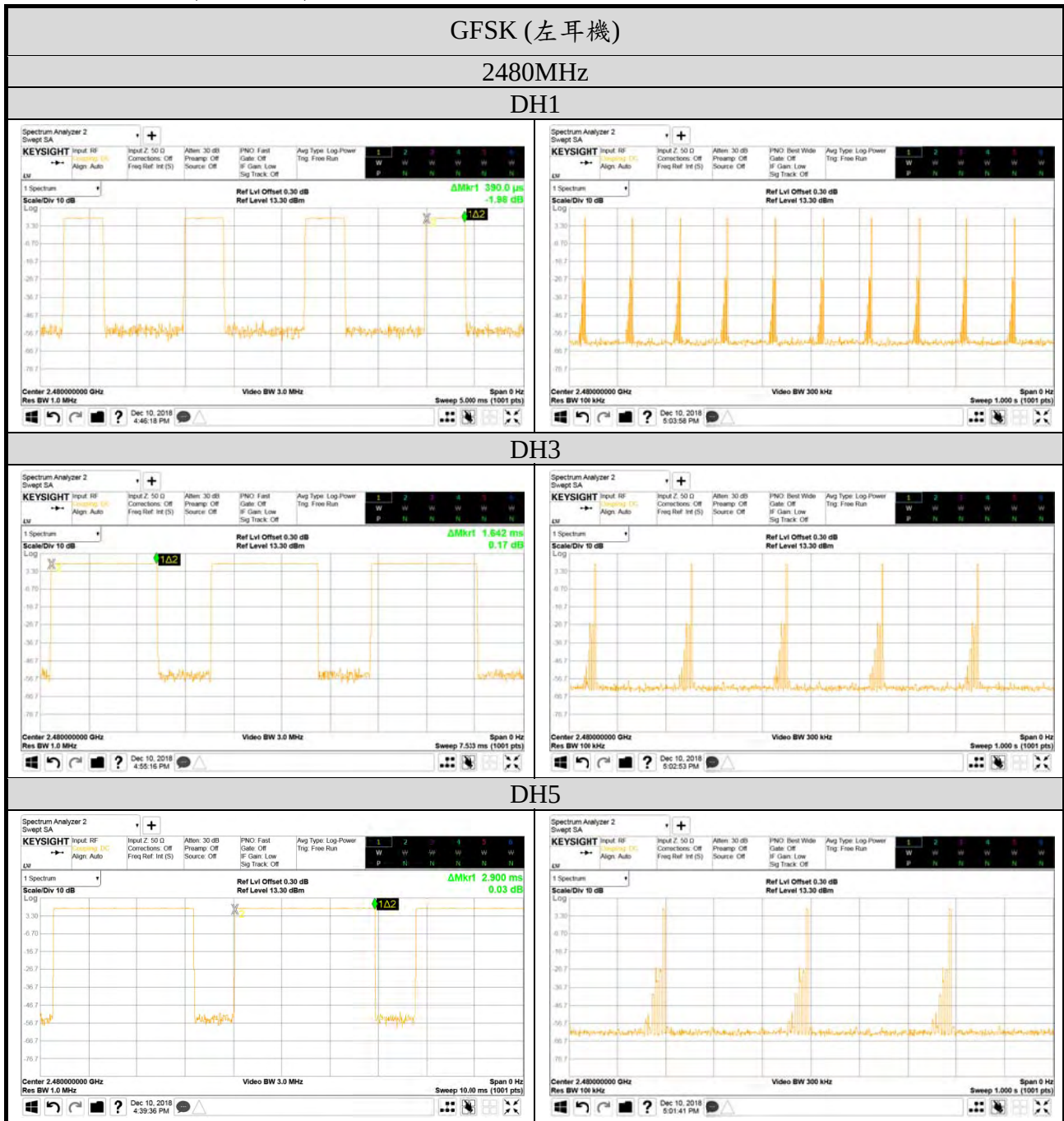
$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.642 \text{ ms} = 259.436 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK (左耳機)	2402	3DH1	10	0.400	126.400	<400
		3DH3	5	1.650	260.700	<400
		3DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.400 \text{ ms} = 126.400 \text{ ms} (<400\text{ms})$

封包模式: 3DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.650 \text{ ms} = 260.700 \text{ ms} (<400\text{ms})$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$

模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK (左耳機)	2441	3DH1	10	0.400	126.400	<400
		3DH3	5	1.650	260.700	<400
		3DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.400 \text{ ms} = 126.400 \text{ ms} (<400\text{ms})$$

封包模式: 3DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.650 \text{ ms} = 260.700 \text{ ms} (<400\text{ms})$$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

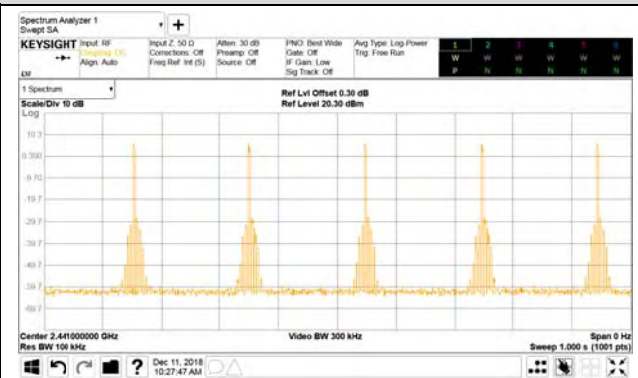
8DPSK (左耳機)

2441MHz

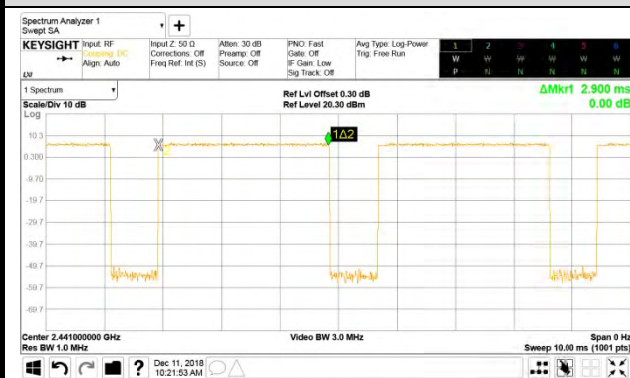
3DH1



3DH3



3DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK (左耳機)	2480	3DH1	10	0.400	126.400	<400
		3DH3	5	1.650	260.700	<400
		3DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.400 \text{ ms} = 126.400 \text{ ms} (<400\text{ms})$

封包模式: 3DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.650 \text{ ms} = 260.700 \text{ ms} (<400\text{ms})$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

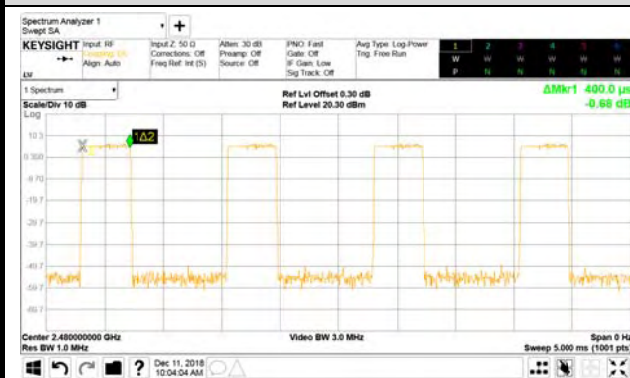
$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

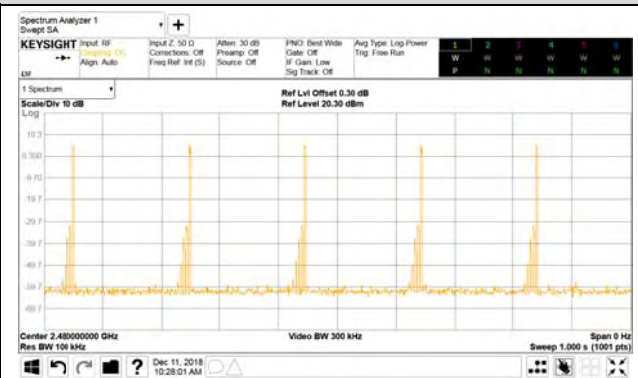
8DPSK (左耳機)

2480MHz

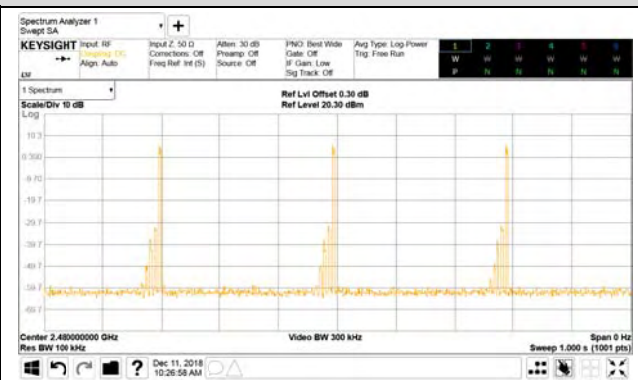
3DH1



3DH3



3DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK (右耳機)	2402	DH1	10	0.390	123.240	<400
		DH3	5	1.642	259.436	<400
		DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

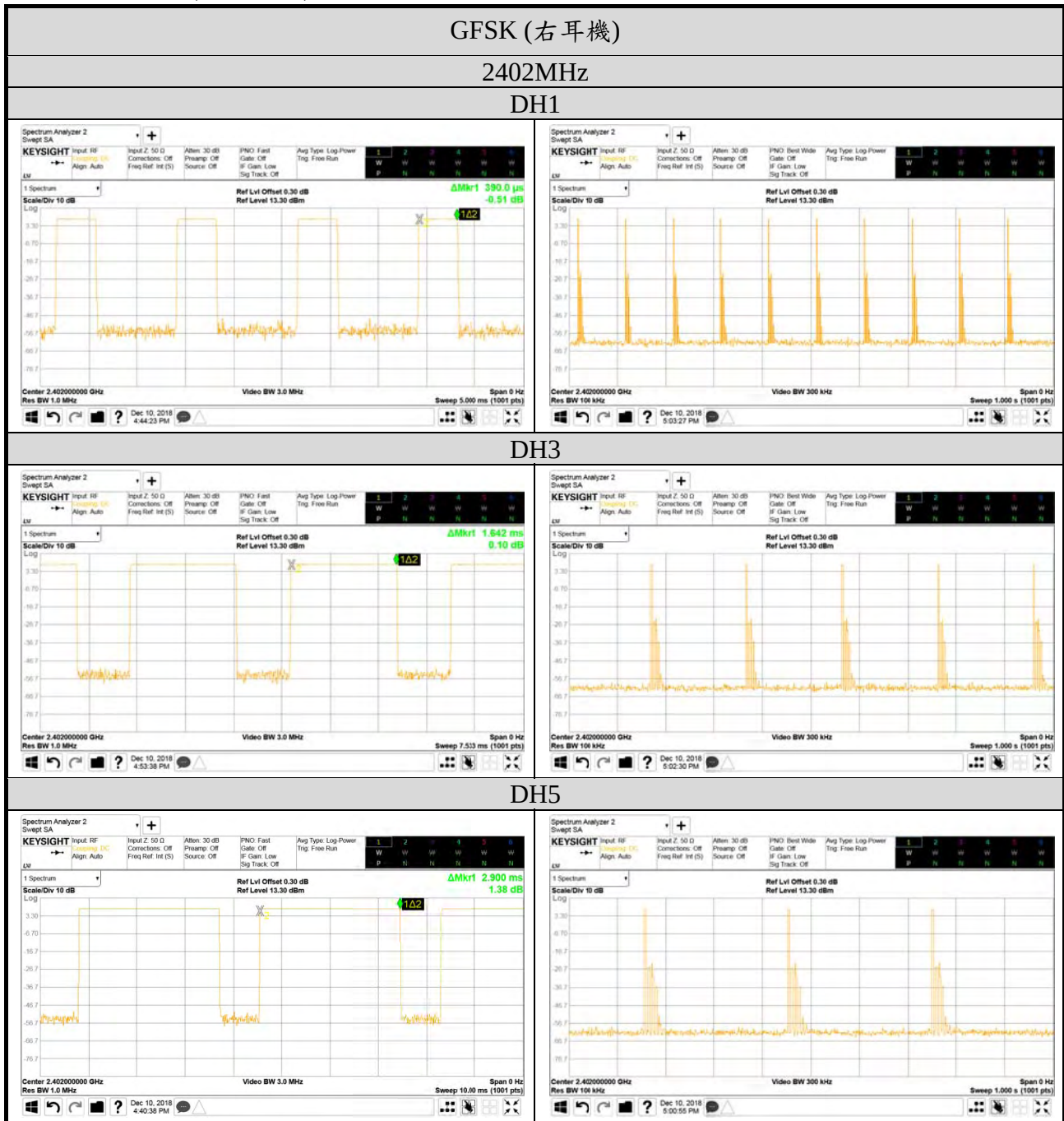
$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.642 \text{ ms} = 259.436 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK (右耳機)	2441	DH1	10	0.390	123.240	<400
		DH3	5	1.642	259.436	<400
		DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

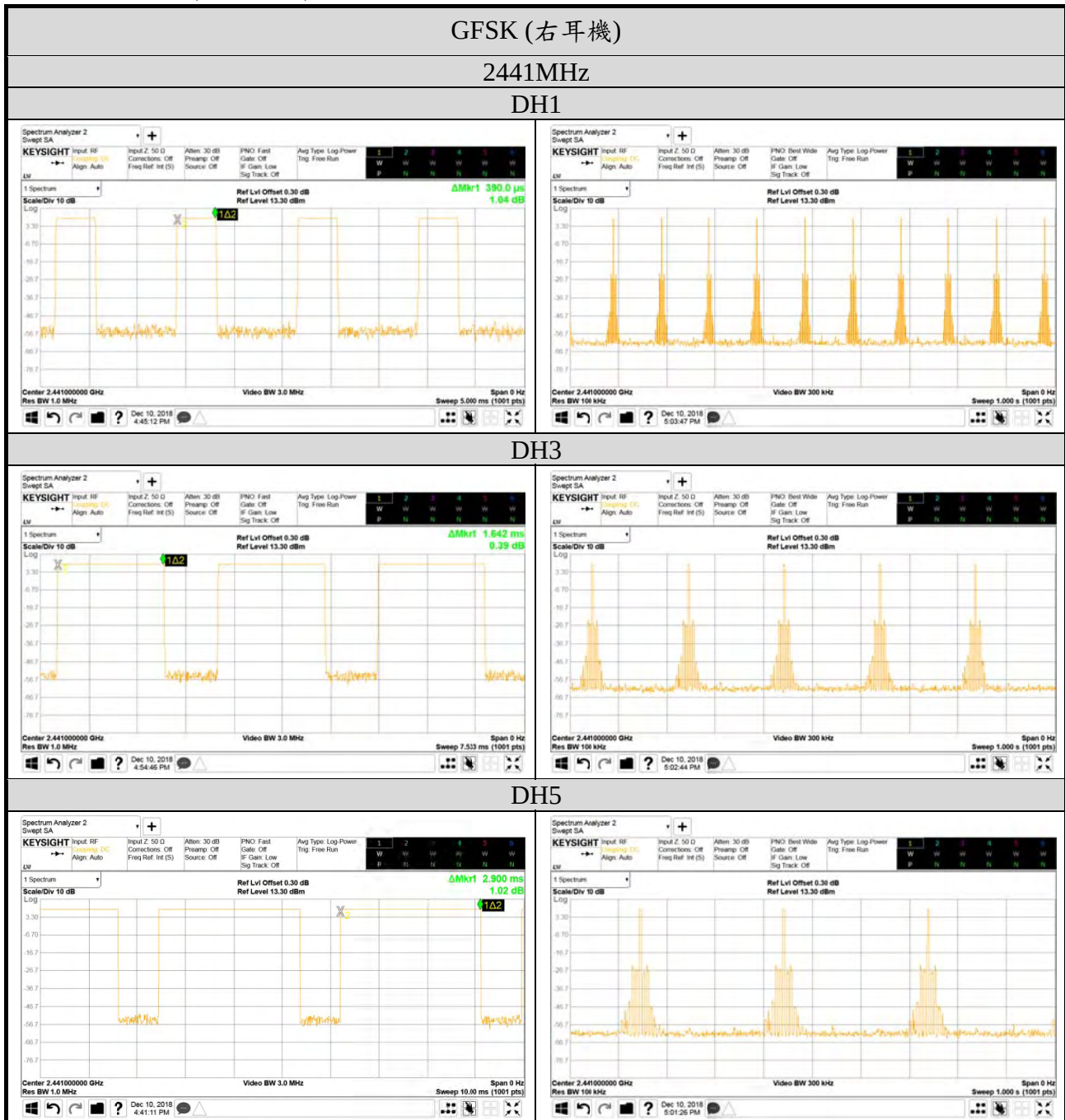
$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.642 \text{ ms} = 259.436 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK (右耳機)	2480	DH1	10	0.390	123.240	<400
		DH3	5	1.642	259.436	<400
		DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

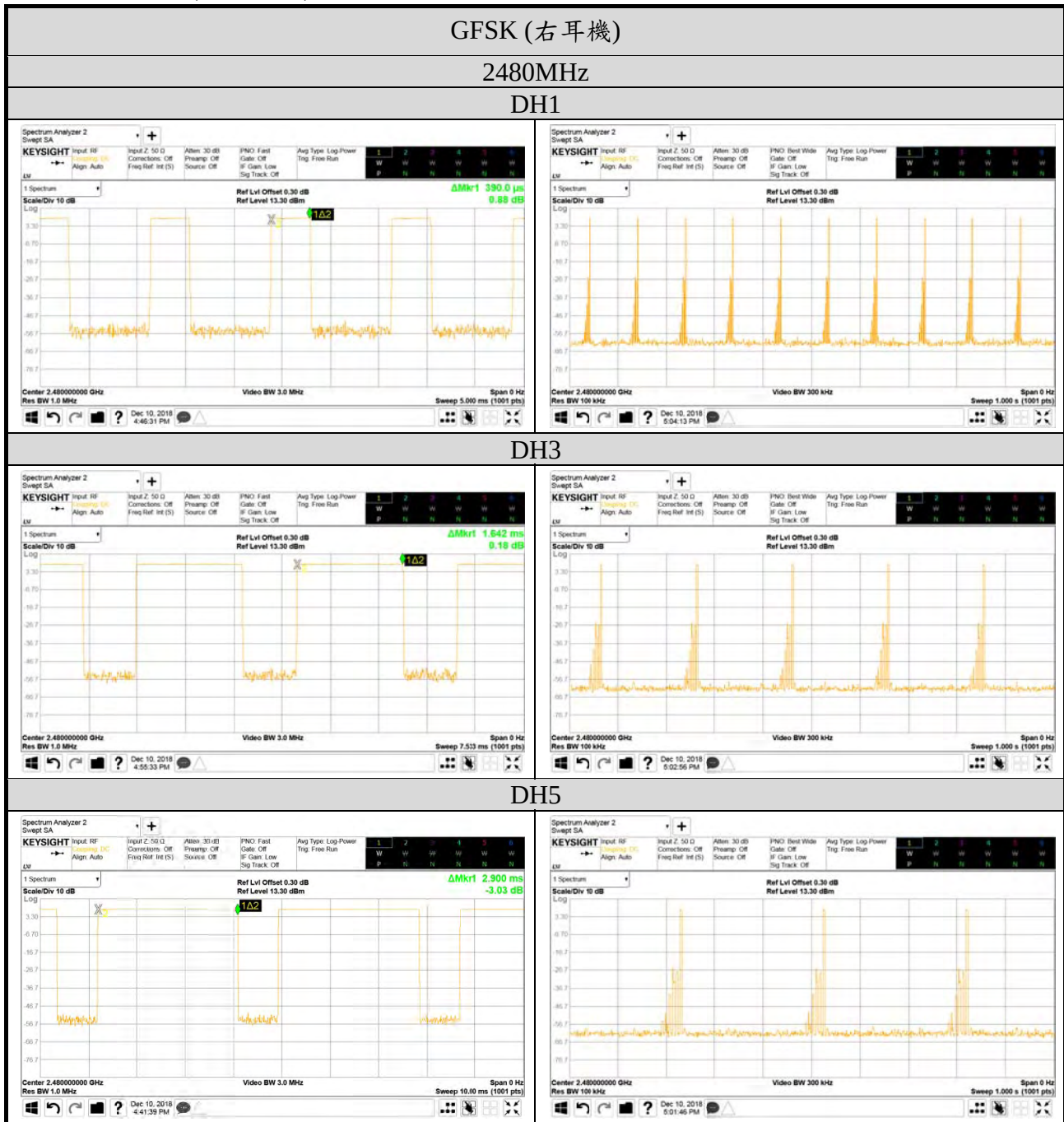
$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.642 \text{ ms} = 259.436 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK (右耳機)	2402	3DH1	10	0.405	127.980	<400
		3DH3	5	1.650	260.700	<400
		3DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.405 \text{ ms} = 127.980 \text{ ms} (<400\text{ms})$

封包模式: 3DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.650 \text{ ms} = 260.700 \text{ ms} (<400\text{ms})$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

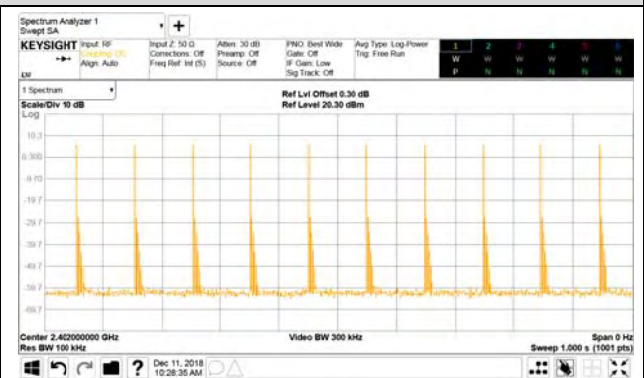
$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

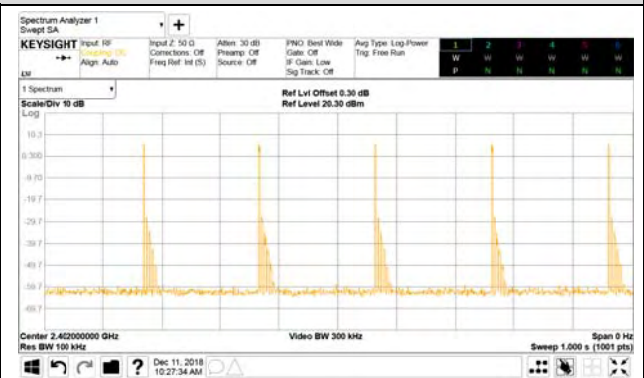
8DPSK (右耳機)

2402MHz

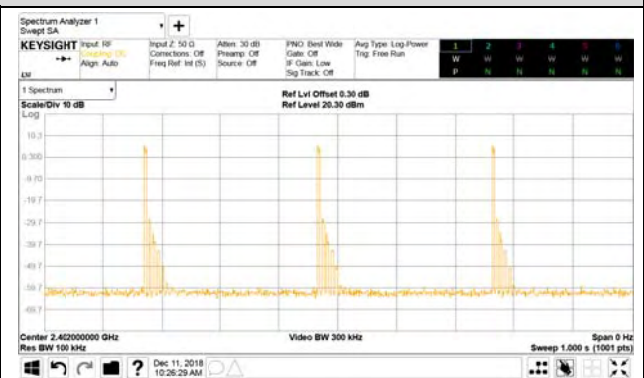
3DH1



3DH3



3DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK (右耳機)	2441	3DH1	10	0.400	126.400	<400
		3DH3	5	1.650	260.700	<400
		3DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.400 \text{ ms} = 126.400 \text{ ms} (<400\text{ms})$$

封包模式: 3DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

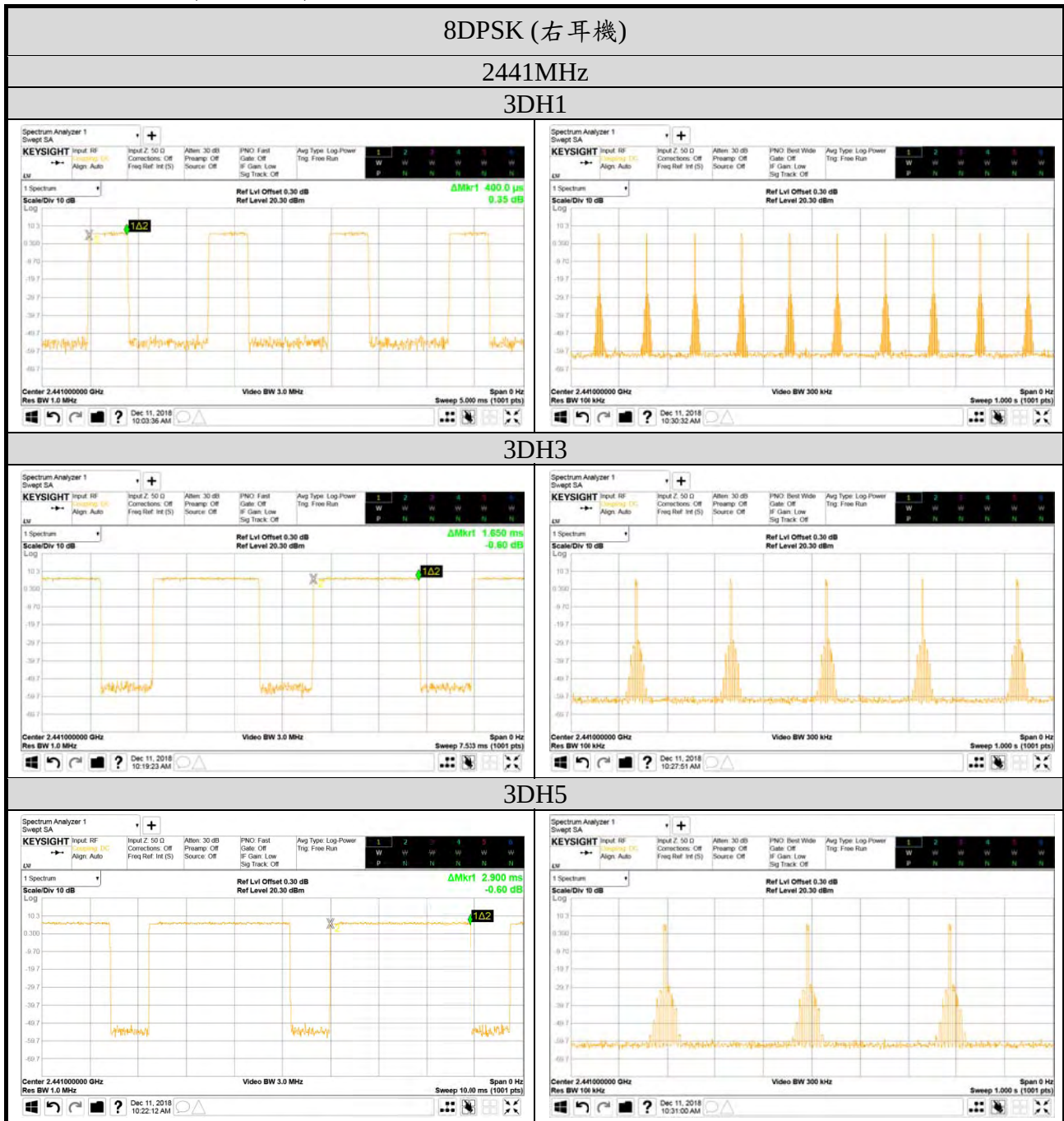
$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.650 \text{ ms} = 260.700 \text{ ms} (<400\text{ms})$$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK (右耳機)	2480	3DH1	10	0.400	126.400	<400
		3DH3	5	1.650	260.700	<400
		3DH5	3	2.900	274.920	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.400 \text{ ms} = 126.400 \text{ ms} (<400\text{ms})$

封包模式: 3DH3

以每1秒出現 5 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.650 \text{ ms} = 260.700 \text{ ms} (<400\text{ms})$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

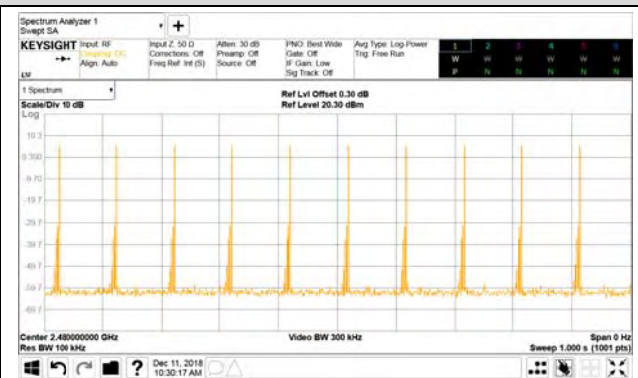
$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.900 \text{ ms} = 274.920 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

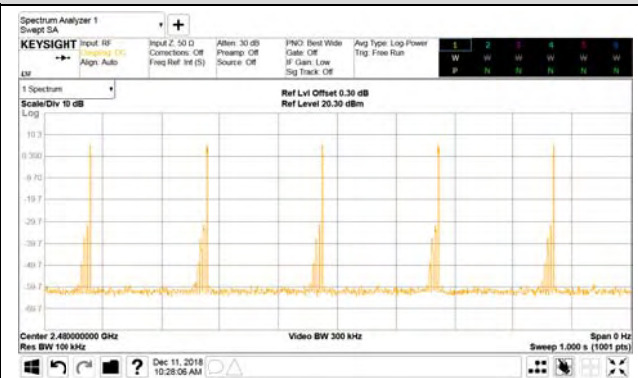
8DPSK (右耳機)

2480MHz

3DH1



3DH3



3DH5



6. 峰值輸出功率之量測

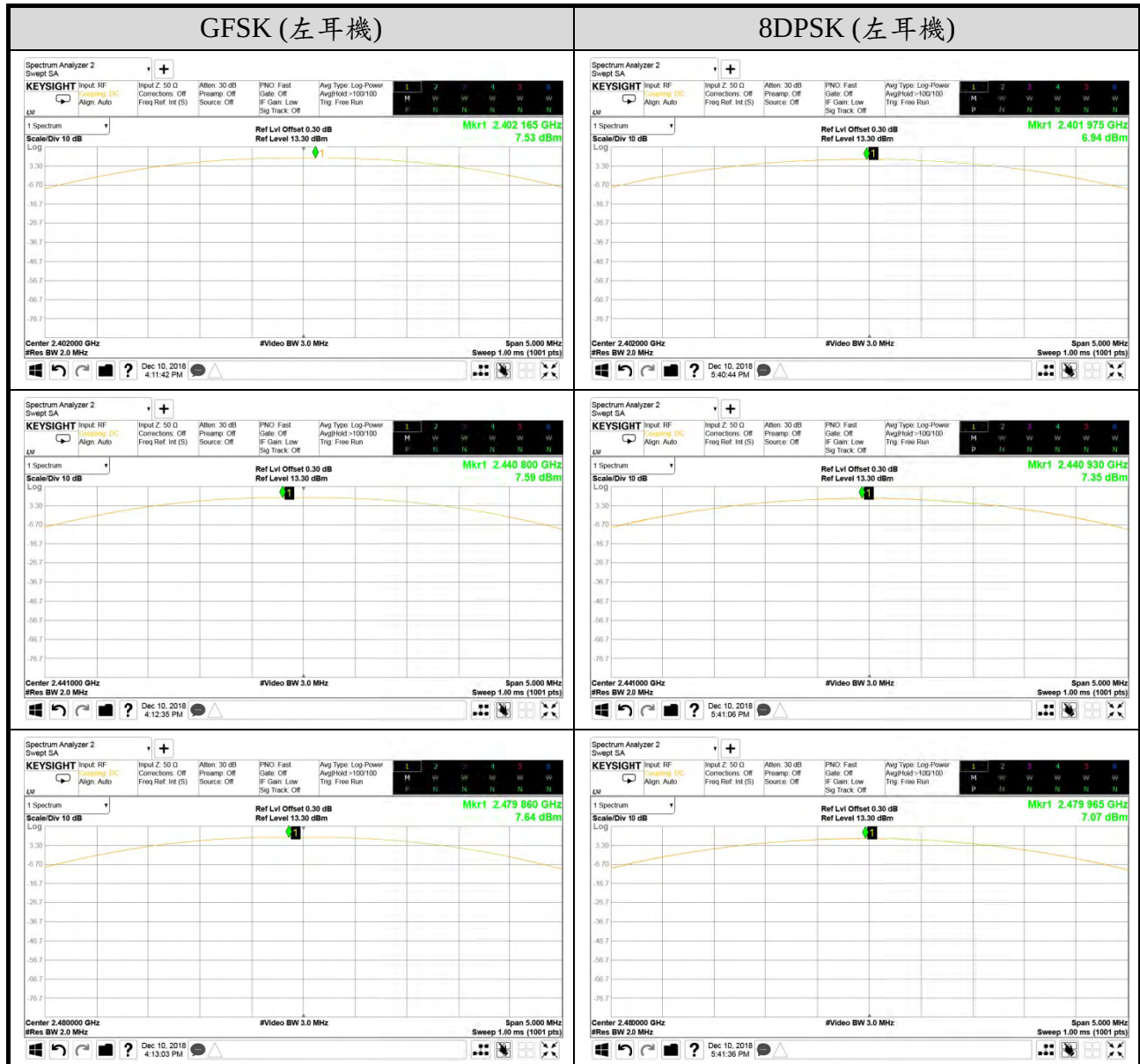
測試日期	2018/12/10 ~ 11	環境溫/濕度	23~24°C/50~52%
測試電壓	DC 3.7V (經內建鋰電池供電)		

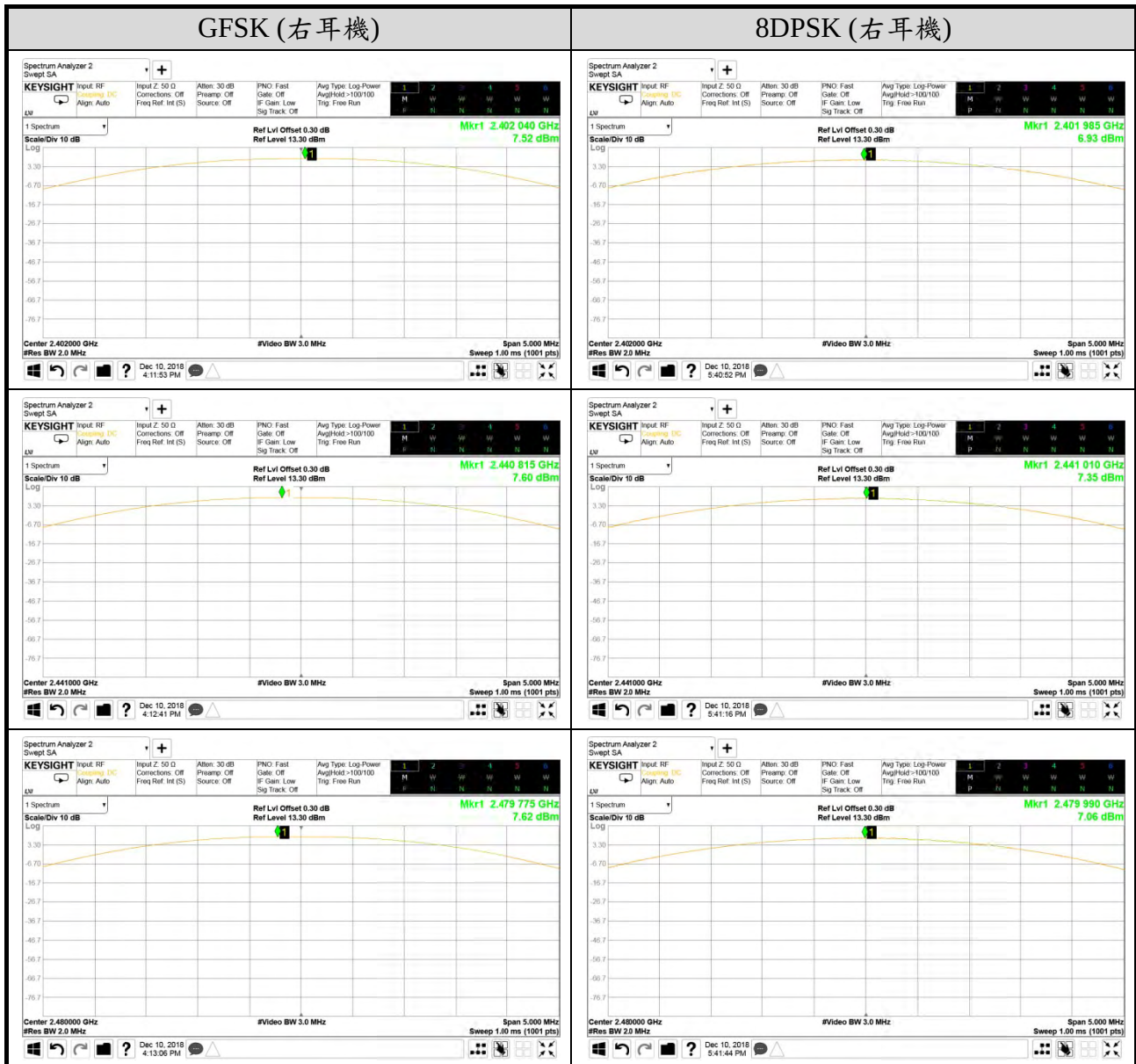
6.1. 峰值輸出功率

模式	測試頻率 (MHz)	峰值輸出功率(dBm)
GFSK (左耳機)	2402	7.53
	2441	7.59
	2480	7.64
8DPSK (左耳機)	2402	6.94
	2441	7.35
	2480	7.07

模式	測試頻率 (MHz)	峰值輸出功率(dBm)
GFSK (右耳機)	2402	7.52
	2441	7.60
	2480	7.62
8DPSK (右耳機)	2402	6.93
	2441	7.35
	2480	7.06

6.2. 峰值輸出功率之量測圖

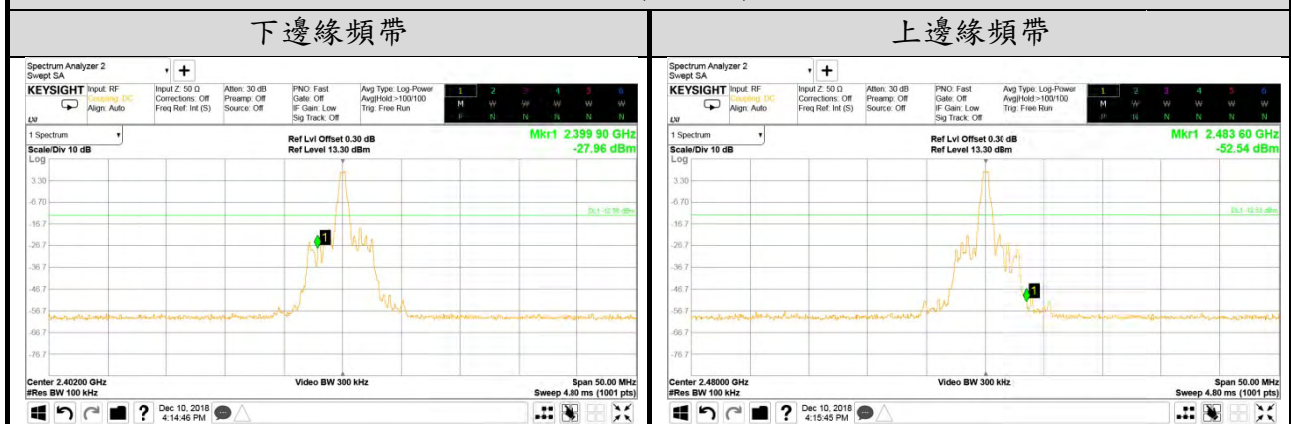




7. 頻帶邊緣之 RF 傳導發射之量測

測試日期	2018/12/10 ~ 11	環境溫/濕度	23~24°C/50~52%
測試電壓	DC 3.7V (經內建鋰電池供電)		

GFSK (左耳機)

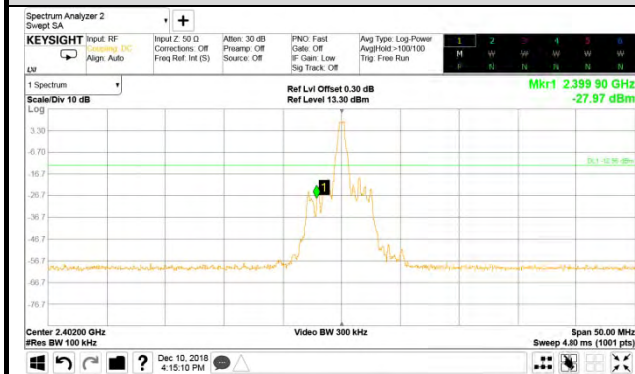


8DPSK (左耳機)

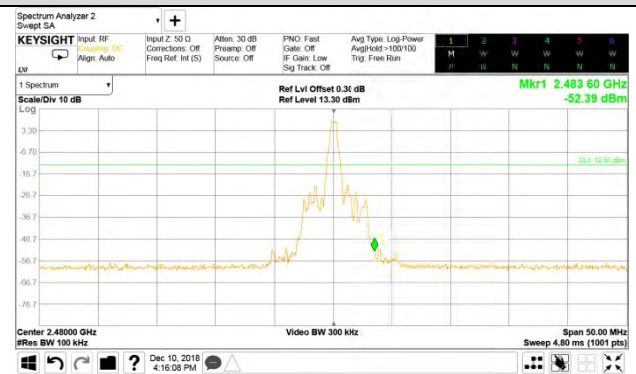


GFSK (右耳機)

下邊緣頻帶

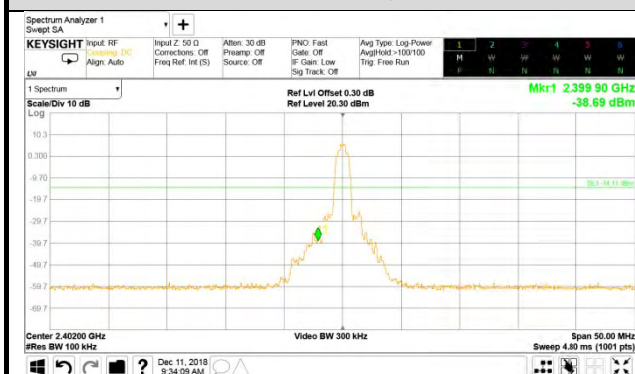


上邊緣頻帶

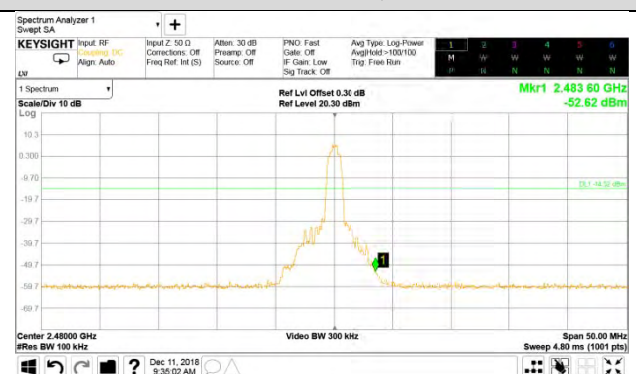


8DPSK (右耳機)

下邊緣頻帶



上邊緣頻帶



8. 混附發射之 RF 傳導發射之量測

測試日期	2018/12/10 ~ 11	環境溫/濕度	23~24°C/50~52%
測試電壓	DC 3.7V (經內建鋰電池供電)		

