

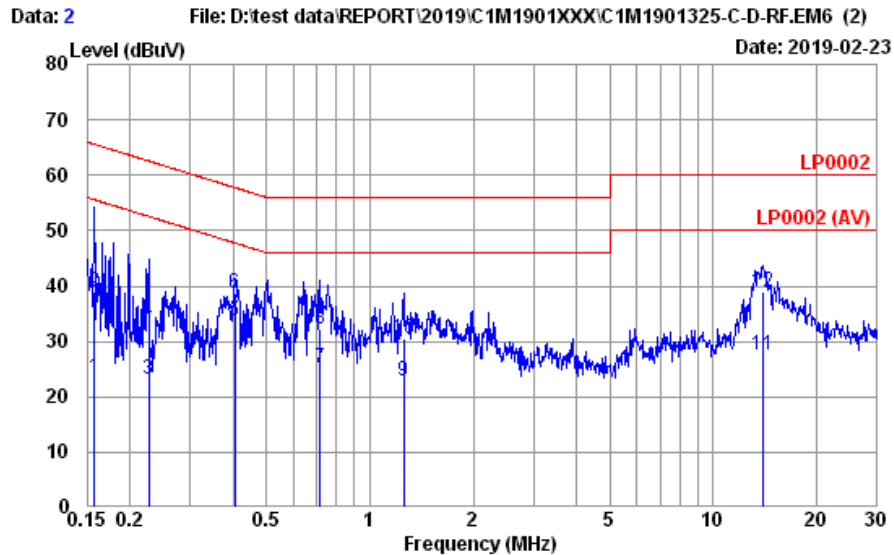
附錄一

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	2019/02/23	環境溫/濕度	22°C/63%
測試電壓	DC 5V (經充電盒供電)		

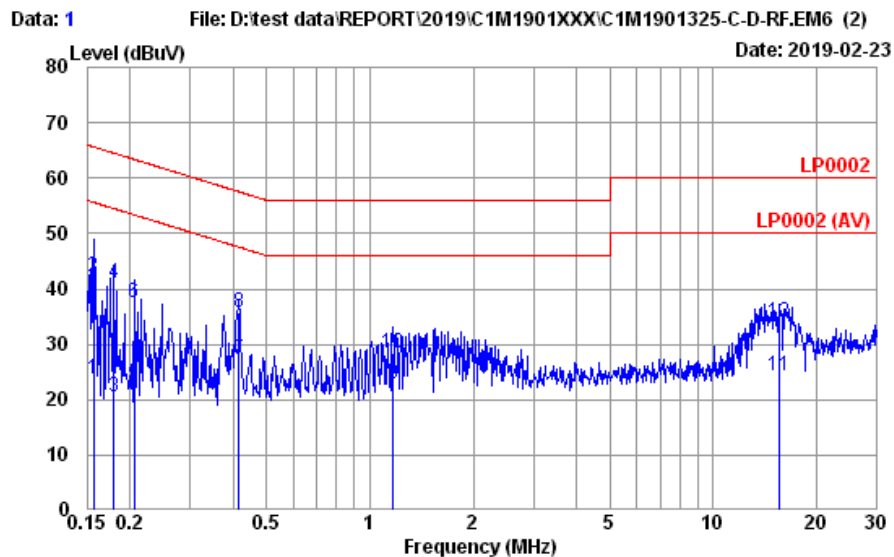


Site no. : No.8 Shielded Room Data no. : 2
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : LP0002
Env. / Ins. : 22°C / 63% ESR3 (1774) Engineer : Ken Yang
EUT : WF-1000XM3
Power Rating : DC 5V(VIA USB)
Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.157	10.69	0.03	9.86	2.83	23.41	55.60	32.19	Average
2	0.157	10.69	0.03	9.86	18.33	38.91	65.60	26.69	QP
3	0.227	10.60	0.03	9.86	2.64	23.13	52.57	29.44	Average
4	0.227	10.60	0.03	9.86	13.22	33.71	62.57	28.86	QP
5	0.404	10.49	0.04	9.86	13.29	33.68	47.77	14.09	Average
6	0.404	10.49	0.04	9.86	18.40	38.79	57.77	18.98	QP
7	0.716	10.48	0.05	9.86	4.67	25.06	46.00	20.94	Average
8	0.716	10.48	0.05	9.86	11.84	32.23	56.00	23.77	QP
9	1.255	10.48	0.06	9.86	2.53	22.93	46.00	23.07	Average
10	1.255	10.48	0.06	9.86	9.99	30.39	56.00	25.61	QP
11	13.989	12.43	0.22	9.91	4.95	27.51	50.00	22.49	Average
12	13.989	12.43	0.22	9.91	16.52	39.08	60.00	20.92	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	2019/02/23	環境溫/濕度	22°C/63%
測試電壓	DC 5V (經充電盒供電)		



Site no. : No.8 Shielded Room Data no. : 1
 Condition : ENV4200 100169 LISN Phase : LINE
 Limit : LP0002
 Env. / Ins. : 22°C / 63% ESR3 (1774) Engineer : Ken Yang
 EUT : WF-1000XM3
 Power Rating : DC 5V(VIA USB)
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.156	10.61	0.03	9.86	3.20	23.70	55.65	31.95	Average
2	0.156	10.61	0.03	9.86	21.71	42.21	65.65	23.44	QP
3	0.180	10.57	0.03	9.86	0.14	20.60	54.50	33.90	Average
4	0.180	10.57	0.03	9.86	20.54	41.00	64.50	23.50	QP
5	0.206	10.54	0.03	9.86	2.56	22.99	53.36	30.37	Average
6	0.206	10.54	0.03	9.86	17.22	37.65	63.36	25.71	QP
7	0.415	10.45	0.04	9.86	6.90	27.25	47.55	20.30	Average
8	0.415	10.45	0.04	9.86	15.51	35.86	57.55	21.69	QP
9	1.166	10.43	0.06	9.86	2.41	22.76	46.00	23.24	Average
10	1.166	10.43	0.06	9.86	8.09	28.44	56.00	27.56	QP
11	15.635	12.42	0.24	9.92	1.66	24.24	50.00	25.76	Average
12	15.635	12.42	0.24	9.92	11.42	34.00	60.00	26.00	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

【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】

本裝置有兩種電源供應方式分別為電池(DC 3.7V)、充電盒(DC 5V)，實驗室以單機(電池供電)以低、中、高頻率來進行量測，並將下列測試模式之掃頻圖隨案件所附。另搭配充電盒(DC 5V)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
2	發射 (左耳機 L)	2402MHz* (CH0)	30-1000MHz
			1000-25000MHz
3		2441MHz (CH39)	1000-25000MHz
4	發射 (右耳機 R)	2480MHz (CH78)	1000-25000MHz
5		2441MHz (CH39)	30-1000MHz
			1000-25000MHz
6	發射 (左耳機 L)	2402MHz* (CH0)	30-1000MHz
			1000-25000MHz
7		2441MHz (CH39)	1000-25000MHz
8	發射 (右耳機 R)	2480MHz (CH78)	1000-25000MHz
9		2441MHz (CH39)	30-1000MHz
			1000-25000MHz

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
BT (8-DPSK) (左耳機 L)	發射	2402MHz (CH0)	2310-2410MHz
		2480MHz (CH78)	2430-2530MHz
BT (GFSK) (左耳機 L)	發射	2402MHz (CH0)	2310-2410MHz
		2480MHz (CH78)	2430-2530MHz
BT (8-DPSK) (右耳機 R)	發射	2402MHz (CH0)	2310-2410MHz
		2480MHz (CH78)	2430-2530MHz
BT (GFSK) (右耳機 R)	發射	2402MHz (CH0)	2310-2410MHz
		2480MHz (CH78)	2430-2530MHz

測試日期	2018/02/25	環境溫/濕度	26°C/43%
測試電壓	(1)充電模式: DC 5V (經充電座供電) (2)發射/接收模式: DC 3.7V (經內建鋰電池供電)		

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
95.96	16.80	2.60	19.51	38.91	43.50	4.59	Peak
120.21	18.81	2.99	18.15	39.95	43.50	3.55	Peak
312.27	20.19	4.54	10.37	35.10	46.00	10.90	Peak
444.19	23.05	5.91	6.43	35.39	46.00	10.61	Peak
515.97	23.91	6.11	4.45	34.47	46.00	11.53	Peak
664.38	25.16	6.88	4.05	36.09	46.00	9.91	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
95.96	16.80	2.60	16.70	36.10	43.50	7.40	Peak
120.21	18.81	2.99	18.76	40.56	43.50	2.94	Peak
245.34	19.08	3.95	5.96	28.99	46.00	17.01	Peak
322.94	20.51	4.70	8.80	34.01	46.00	11.99	Peak
431.58	22.87	5.87	4.15	32.89	46.00	13.11	Peak
515.97	23.91	6.11	3.30	33.32	46.00	12.68	Peak

Mode	GFSK (左耳機 L)	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
84.32	14.56	2.32	15.10	31.98	40.00	8.02	Peak
95.96	16.80	2.60	20.90	40.30	43.50	3.20	Peak
107.60	18.02	2.81	15.44	36.27	43.50	7.23	Peak
240.49	18.81	3.92	4.98	27.71	46.00	18.29	Peak
327.79	20.64	4.77	7.97	33.38	46.00	12.62	Peak
577.08	24.69	6.40	2.17	33.26	46.00	12.74	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
95.96	16.80	2.60	22.61	42.01	43.50	1.49	Peak
167.74	16.08	3.50	10.49	30.07	43.50	13.43	Peak
237.58	18.59	3.90	6.14	28.63	46.00	17.37	Peak
324.88	20.54	4.72	9.96	35.22	46.00	10.78	Peak
480.08	23.48	5.99	3.50	32.97	46.00	13.03	Peak
612.97	25.00	6.58	2.63	34.21	46.00	11.79	Peak

Mode	GFSK (左耳機 L)	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
84.32	14.56	2.32	20.85	37.73	40.00	2.27	Peak
95.96	16.80	2.60	22.56	41.96	43.50	1.54	Peak
108.57	18.10	2.82	20.45	41.37	43.50	2.13	Peak
120.21	18.81	2.99	15.90	37.70	43.50	5.80	Peak
216.24	17.13	3.76	9.27	30.16	46.00	15.84	Peak
330.70	20.70	4.79	6.40	31.89	46.00	14.11	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
84.32	14.56	2.32	12.93	29.81	40.00	10.19	Peak
95.96	16.80	2.60	15.29	34.69	43.50	8.81	Peak
199.75	15.94	3.66	7.30	26.90	43.50	16.60	Peak
247.28	19.24	3.96	5.07	28.27	46.00	17.73	Peak
322.94	20.51	4.70	8.56	33.77	46.00	12.23	Peak
444.19	23.05	5.91	3.98	32.94	46.00	13.06	Peak

Mode	GFSK (右耳機 R)	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
84.32	14.56	2.32	20.74	37.62	40.00	2.38	Peak
95.96	16.80	2.60	22.91	42.31	43.50	1.19	Peak
107.60	18.02	2.81	20.66	41.49	43.50	2.01	Peak
167.74	16.08	3.50	9.55	29.13	43.50	14.37	Peak
216.24	17.13	3.76	11.37	32.26	46.00	13.74	Peak
682.81	25.22	6.99	2.26	34.47	46.00	11.53	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
84.32	14.56	2.32	15.88	32.76	40.00	7.24	Peak
95.96	16.80	2.60	22.56	41.96	43.50	1.54	Peak
107.60	18.02	2.81	14.72	35.55	43.50	7.95	Peak
241.46	18.86	3.92	5.87	28.65	46.00	17.35	Peak
323.91	20.54	4.72	8.91	34.17	46.00	11.83	Peak
437.40	22.95	5.89	2.73	31.57	46.00	14.43	Peak

Mode	GFSK (右耳機 R)	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
84.32	14.56	2.32	21.19	38.07	40.00	1.93	Peak
95.96	16.80	2.60	22.52	41.92	43.50	1.58	Peak
107.60	18.02	2.81	17.96	38.79	43.50	4.71	Peak
120.21	18.81	2.99	16.48	38.28	43.50	5.22	Peak
199.75	15.94	3.66	21.78	41.38	43.50	2.12	Peak
498.51	23.67	6.03	4.48	34.18	46.00	11.82	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
84.32	14.56	2.32	12.76	29.64	40.00	10.36	Peak
95.96	16.80	2.60	14.68	34.08	43.50	9.42	Peak
167.74	16.08	3.50	15.81	35.39	43.50	8.11	Peak
245.34	19.08	3.95	5.47	28.50	46.00	17.50	Peak
322.94	20.51	4.70	8.66	33.87	46.00	12.13	Peak
504.33	23.76	6.06	5.06	34.88	46.00	11.12	Peak

2.2. 1000MHz 以上頻率範圍，其他不必要發射量測

Mode	GFSK (左耳機 L)	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
4804.00	34.22	11.42	5.04	50.68	54.00	3.32	Peak
7208.00	35.80	15.36	-1.98	49.18	54.00	4.82	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
4804.00	34.22	11.42	2.85	48.49	54.00	5.51	Average
4804.00	34.22	11.42	9.14	54.78	74.00	19.22	Peak
7208.00	35.80	15.36	-3.82	47.34	54.00	6.66	Average
7208.00	35.80	15.36	4.52	55.68	74.00	18.32	Peak

Mode	GFSK (左耳機 L)	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
4882.00	34.25	13.00	5.92	53.17	54.00	0.83	Peak
7322.00	35.80	15.47	-2.13	49.14	54.00	4.86	Average
7322.00	35.80	15.47	6.21	57.48	74.00	16.52	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
4882.00	34.25	13.00	3.72	50.97	54.00	3.03	Average
4882.00	34.25	13.00	9.89	57.14	74.00	16.86	Peak
7325.00	35.80	15.47	0.34	51.61	54.00	2.39	Peak

Mode	GFSK (左耳機 L)	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	5.47	52.97	54.00	1.03	Peak
7439.00	35.80	15.58	-2.73	48.65	54.00	5.35	Average
7439.00	35.80	15.58	5.61	56.99	74.00	17.01	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
4960.00	34.29	13.21	3.29	50.79	54.00	3.21	Average
4960.00	34.29	13.21	9.46	56.96	74.00	17.04	Peak
7439.00	35.80	15.58	0.87	52.25	54.00	1.75	Peak

Mode	GFSK (左耳機 L)	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
2003.00	31.60	6.95	7.02	45.57	54.00	8.43	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
2071.00	31.70	7.27	5.56	44.53	54.00	9.47	Peak

Mode	GFSK (右耳機 R)	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
4806.00	34.22	11.42	4.61	50.25	54.00	3.75	Peak
7205.00	35.80	15.36	-4.65	46.51	54.00	7.49	Average
7205.00	35.80	15.36	3.69	54.85	74.00	19.15	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
4806.00	34.22	11.42	2.98	48.62	54.00	5.38	Average
4806.00	34.22	11.42	9.15	54.79	74.00	19.21	Peak
7208.00	35.80	15.36	-1.02	50.14	54.00	3.86	Peak

Mode	GFSK (右耳機 R)	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
4882.00	34.25	13.00	6.48	53.73	54.00	0.27	Peak
7325.00	35.80	15.47	-1.47	49.80	54.00	4.20	Average
7325.00	35.80	15.47	6.87	58.14	74.00	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
4882.00	34.25	13.00	3.75	51.00	54.00	3.00	Average
4882.00	34.25	13.00	9.92	57.17	74.00	16.83	Peak
7325.00	35.80	15.47	0.81	52.08	54.00	1.92	Peak

Mode	GFSK (右耳機 R)	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
4962.00	34.29	13.21	5.22	52.72	54.00	1.28	Peak
7442.00	35.80	15.58	-0.18	51.20	54.00	2.80	Average
7442.00	35.80	15.58	6.10	57.48	74.00	16.52	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
4962.00	34.29	13.21	3.31	50.81	54.00	3.19	Average
4962.00	34.29	13.21	9.60	57.10	74.00	16.90	Peak
7442.00	35.80	15.58	0.05	51.43	54.00	2.57	Peak

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

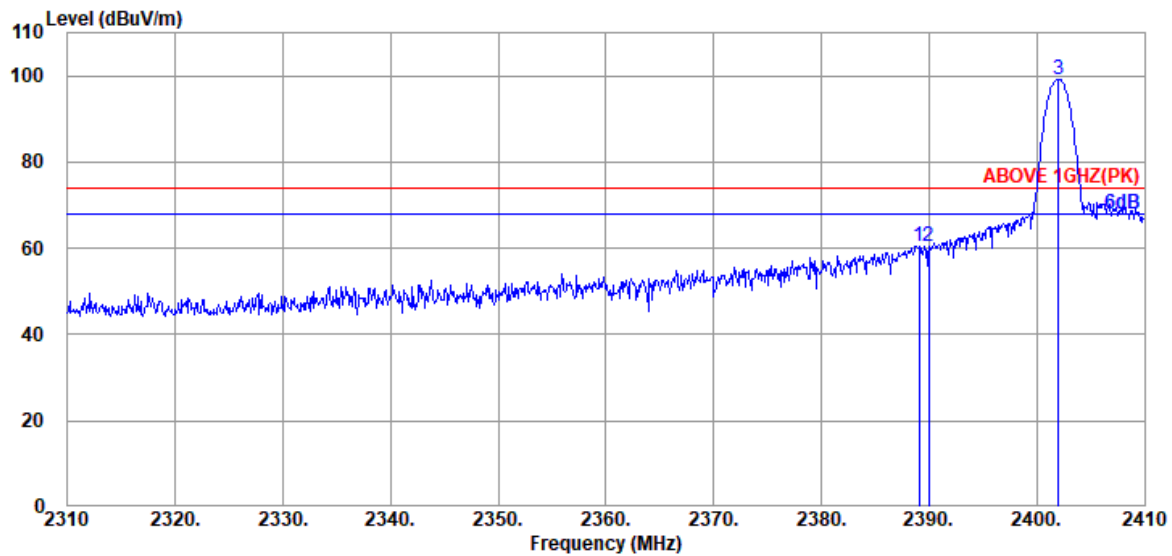
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1960.00	31.24	6.78	5.84	43.86	54.00	10.14	Peak

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
1910.00	31.00	6.67	5.87	43.54	54.00	10.46	Peak

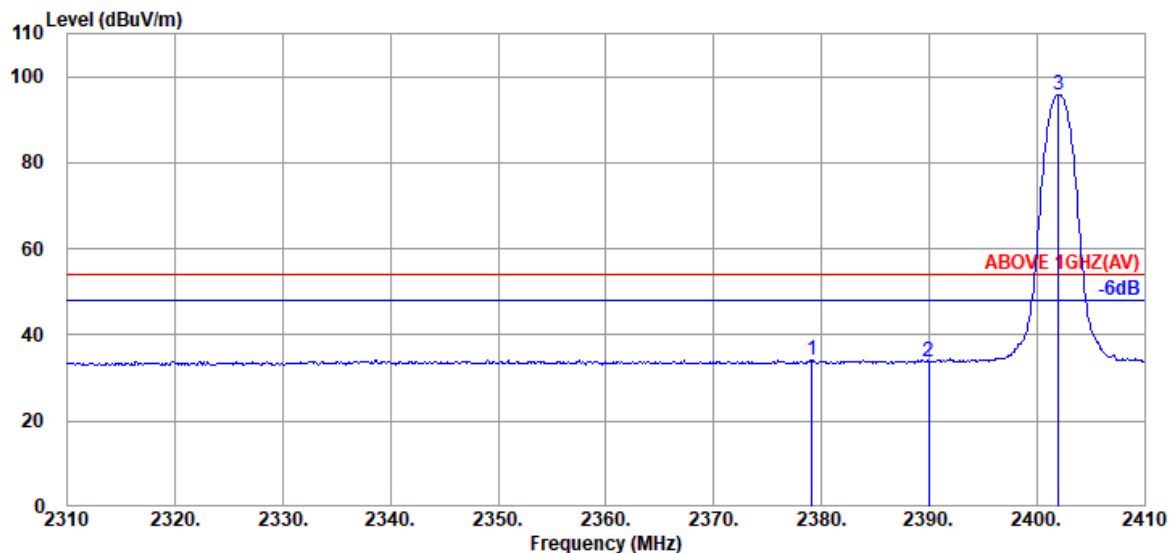
2.3. 禁用頻帶量測結果 (其他不必要發射)

Mode	8-DPSK (左耳機 L)	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
2389.10	32.16	7.92	20.43	60.51	74.00	13.49	Peak
2390.00	32.16	7.92	20.43	60.51	74.00	13.49	Peak
@ 2402.00	32.16	7.92	59.04	99.12	---	---	Peak

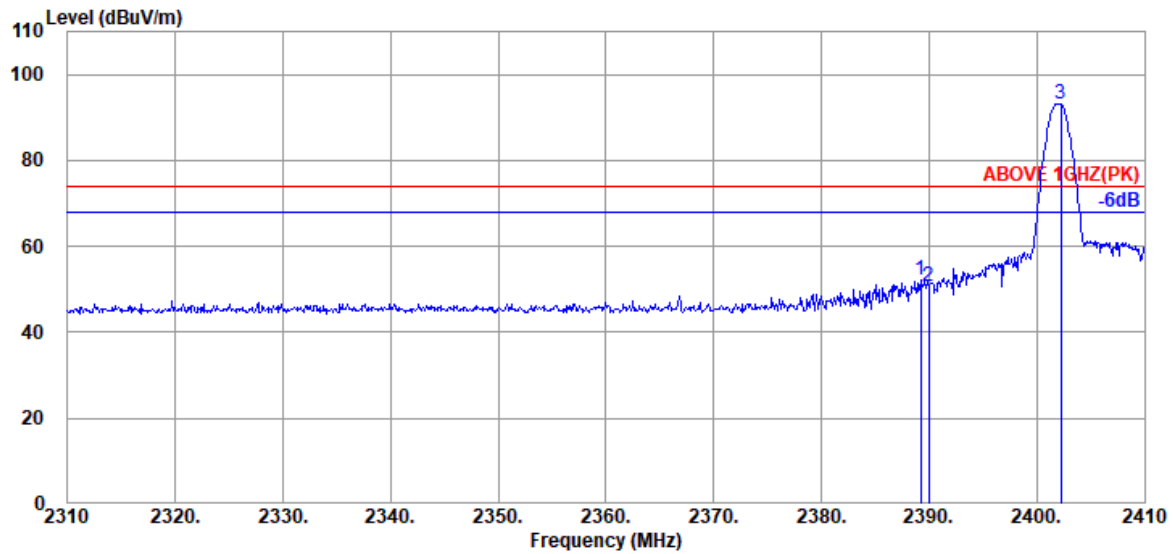


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2379.10	32.13	7.89	-5.67	34.35	54.00	19.65	Average
2390.00	32.16	7.92	-6.37	33.71	54.00	20.29	Average
@ 2402.00	32.16	7.92	55.81	95.89	---	---	Average

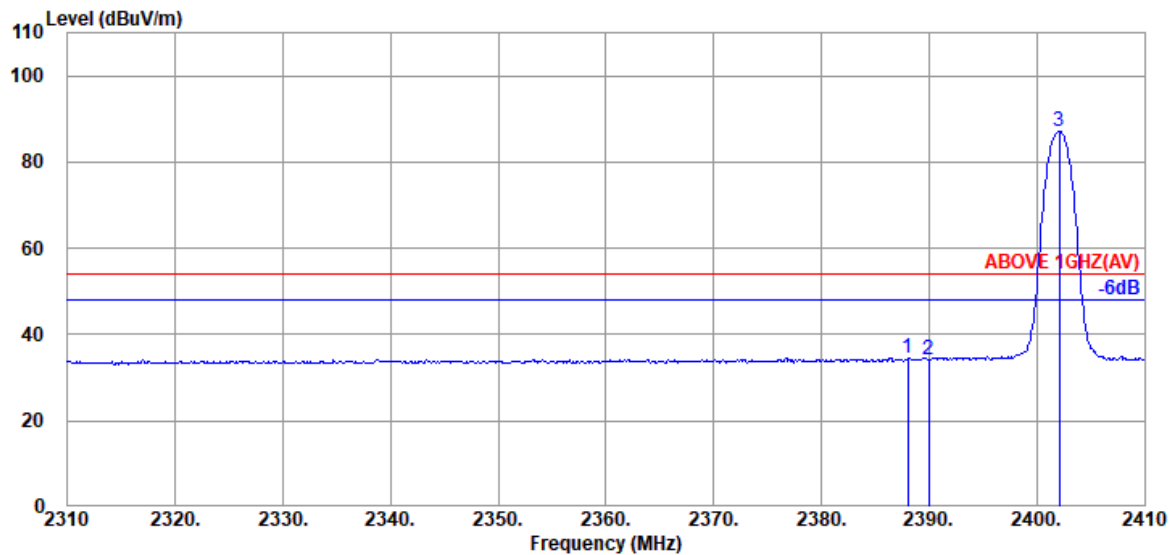
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (左耳機 L)	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
2389.20	32.16	7.92	11.94	52.02	74.00	21.98	Peak
2390.00	32.16	7.92	10.72	50.80	74.00	23.20	Peak
@ 2402.20	32.16	7.92	53.02	93.10	---	---	Peak

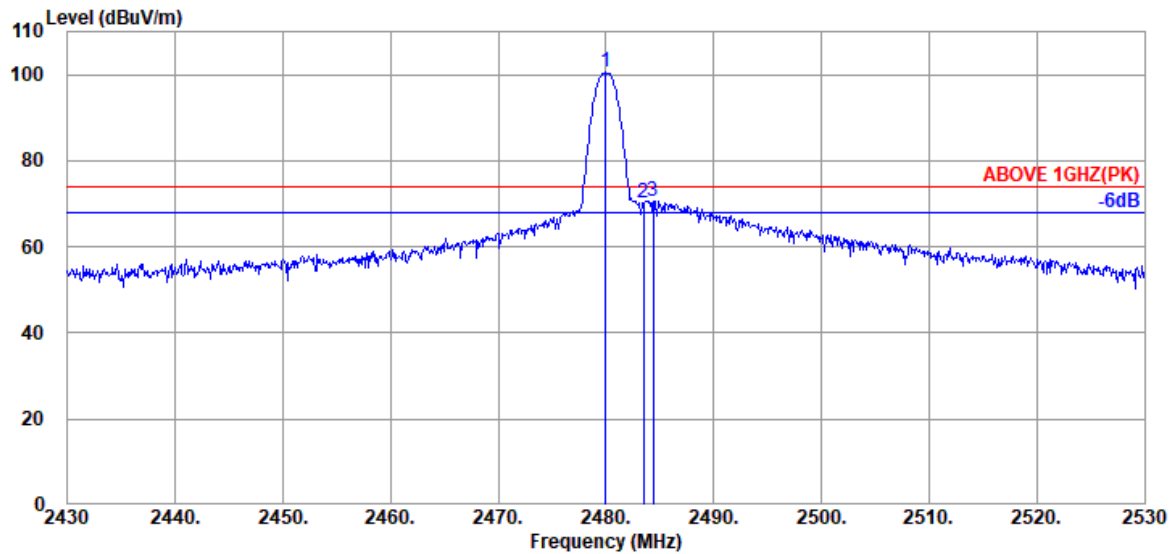


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.00	32.16	7.92	-5.36	34.72	54.00	19.28	Average
2390.00	32.16	7.92	-6.00	34.08	54.00	19.92	Average
@ 2402.10	32.16	7.92	46.92	87.00	---	---	Average

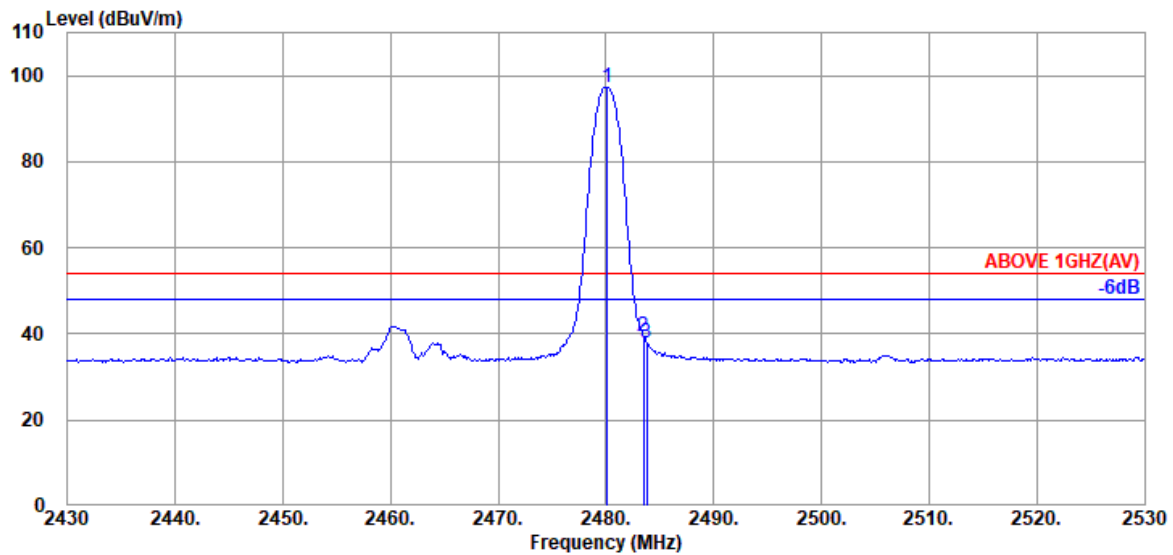
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (左耳機 L)	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
@ 2480.00	32.28	7.90	60.29	100.47	---	---	Peak
2483.50	32.28	7.90	29.99	70.17	74.00	3.83	Peak
2484.40	32.28	7.90	30.53	70.71	74.00	3.29	Peak

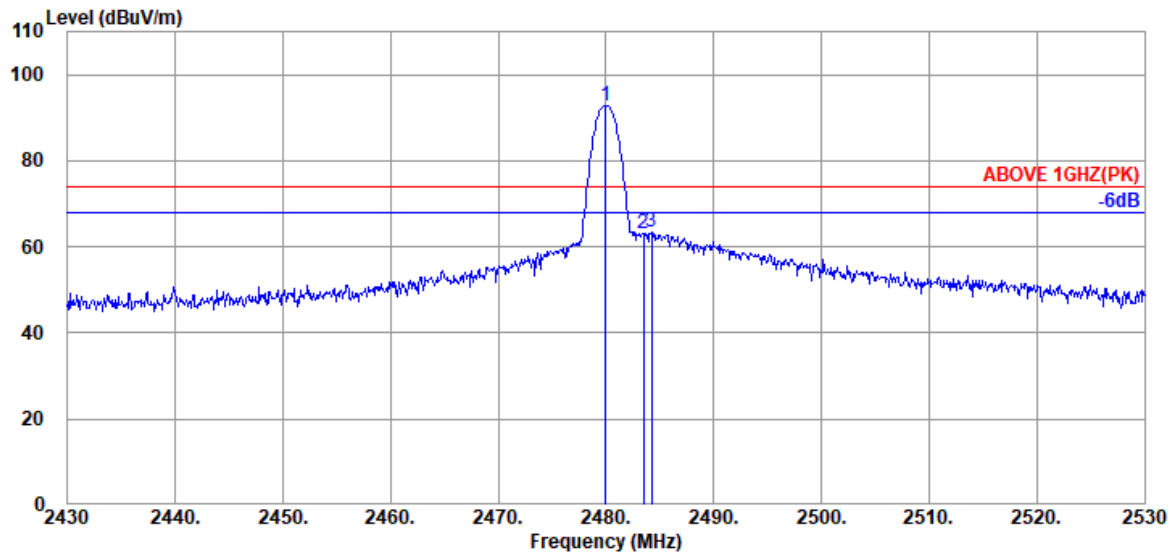


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.10	32.28	7.90	57.14	97.32	---	---	Average
2483.50	32.28	7.90	-0.83	39.35	54.00	14.65	Average
2483.80	32.28	7.90	-2.29	37.89	54.00	16.11	Average

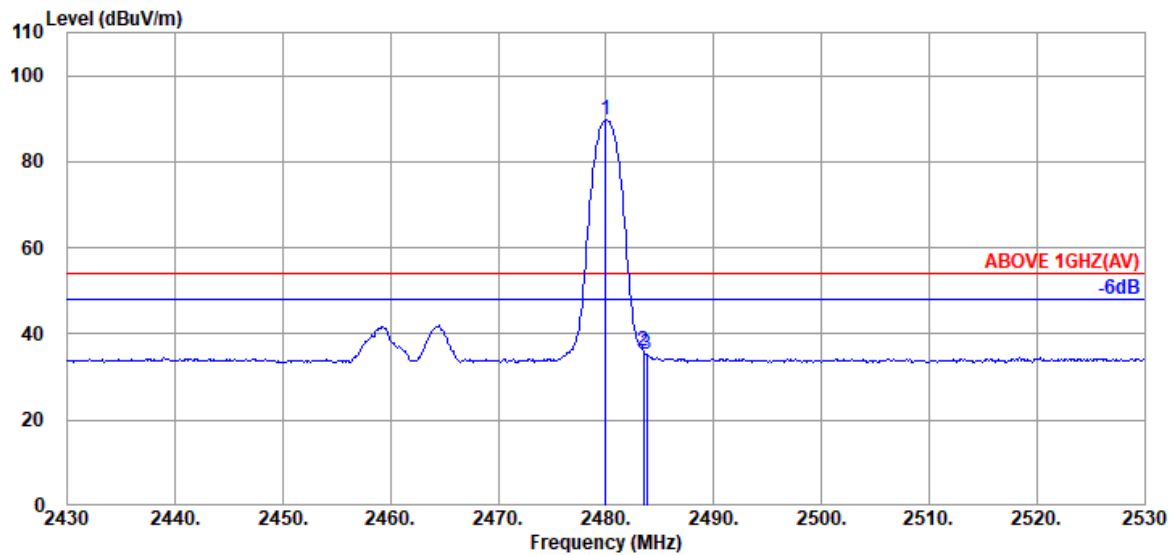
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (左耳機 L)	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	52.57	92.75	---	---	Peak
2483.50	32.28	7.90	22.85	63.03	74.00	10.97	Peak
2484.20	32.28	7.90	23.26	63.44	74.00	10.56	Peak

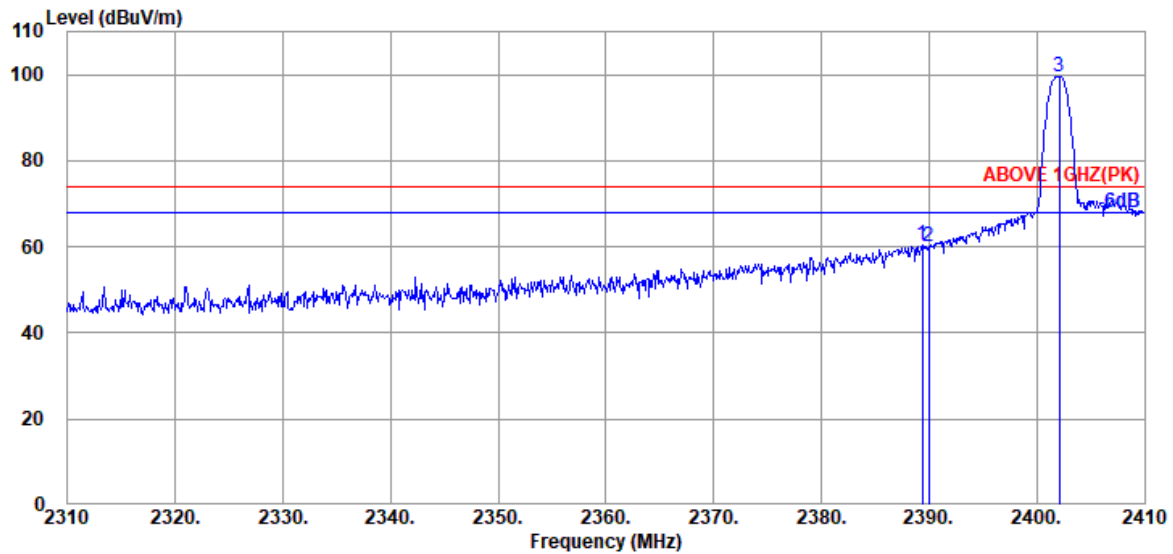


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.00	32.28	7.90	49.40	89.58	---	---	Average
2483.50	32.28	7.90	-4.32	35.86	54.00	18.14	Average
2483.80	32.28	7.90	-4.89	35.29	54.00	18.71	Average

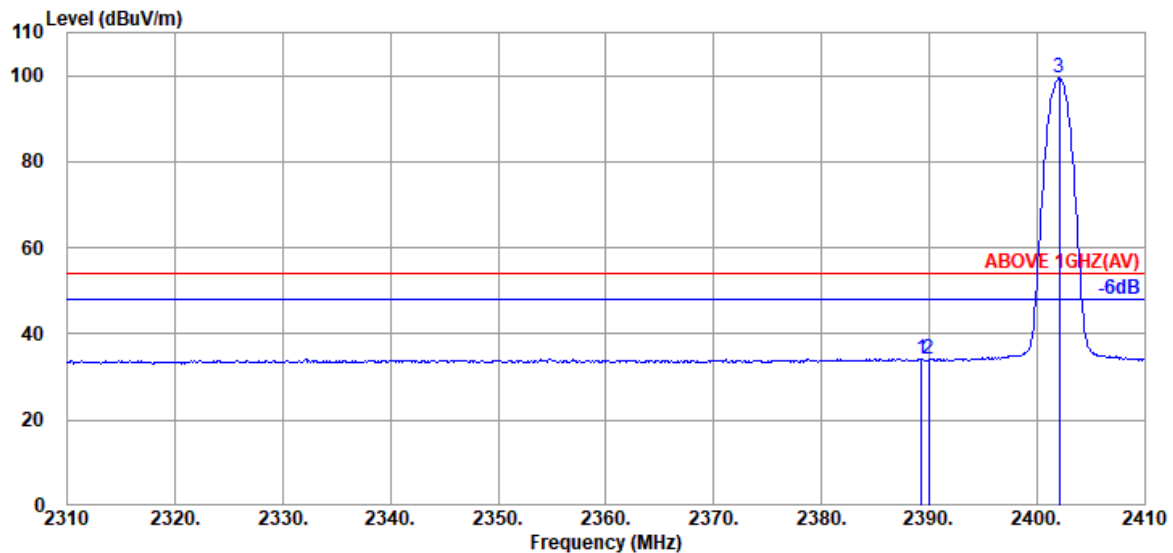
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (左耳機 L)	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
2389.40	32.16	7.92	20.48	60.56	74.00	13.44	Peak
2390.00	32.16	7.92	20.02	60.10	74.00	13.90	Peak
@ 2402.10	32.16	7.92	59.52	99.60	---	---	Peak

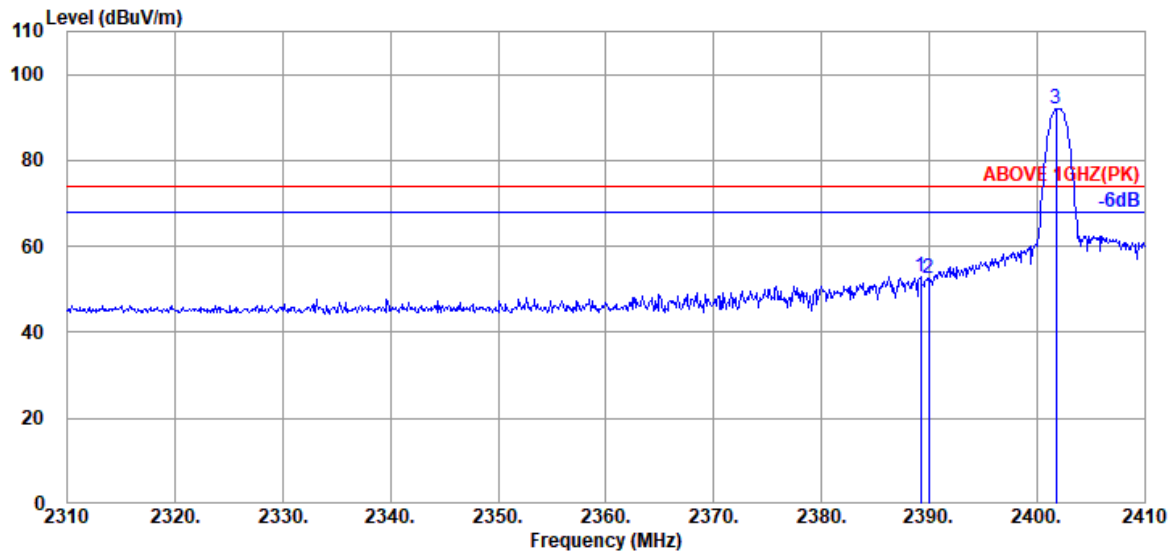


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.30	32.16	7.92	-5.73	34.35	54.00	19.65	Average
2390.00	32.16	7.92	-6.02	34.06	54.00	19.94	Average
@ 2402.10	32.16	7.92	59.30	99.38	---	---	Average

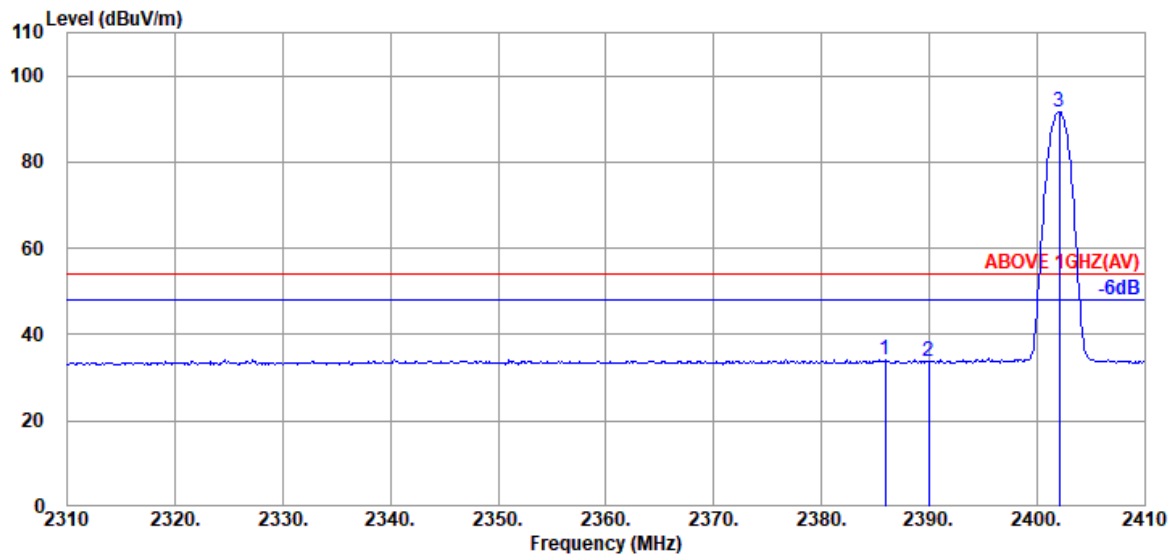
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (左耳機 L)	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
2389.20	32.16	7.92	12.74	52.82	74.00	21.18	Peak
2390.00	32.16	7.92	12.57	52.65	74.00	21.35	Peak
@ 2401.80	32.16	7.92	51.80	91.88	---	---	Peak

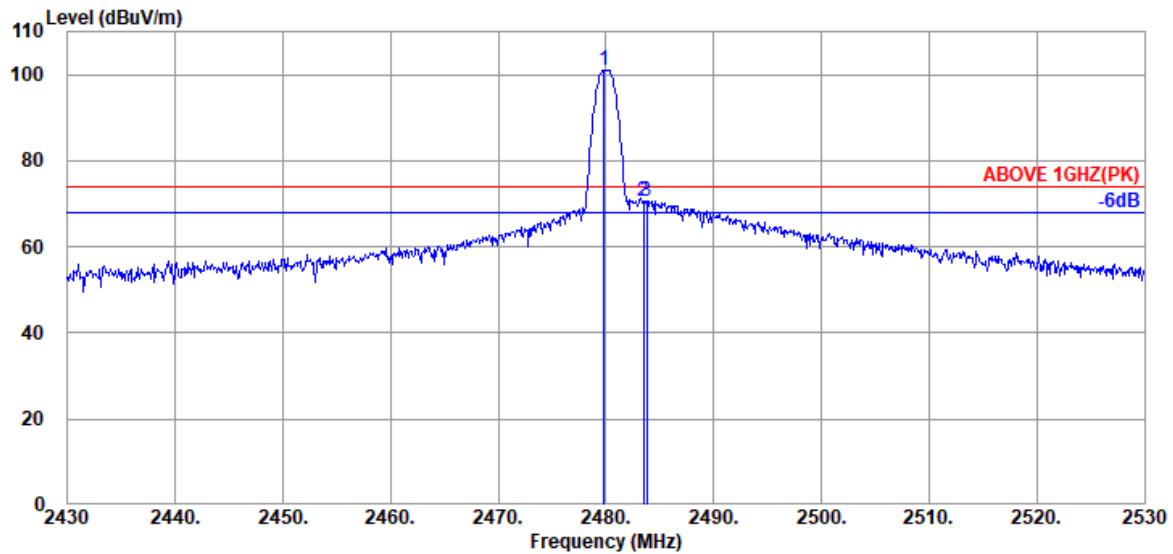


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.90	32.16	7.92	-5.97	34.11	54.00	19.89	Average
2390.00	32.16	7.92	-6.32	33.76	54.00	20.24	Average
@ 2402.10	32.16	7.92	51.58	91.66	---	---	Average

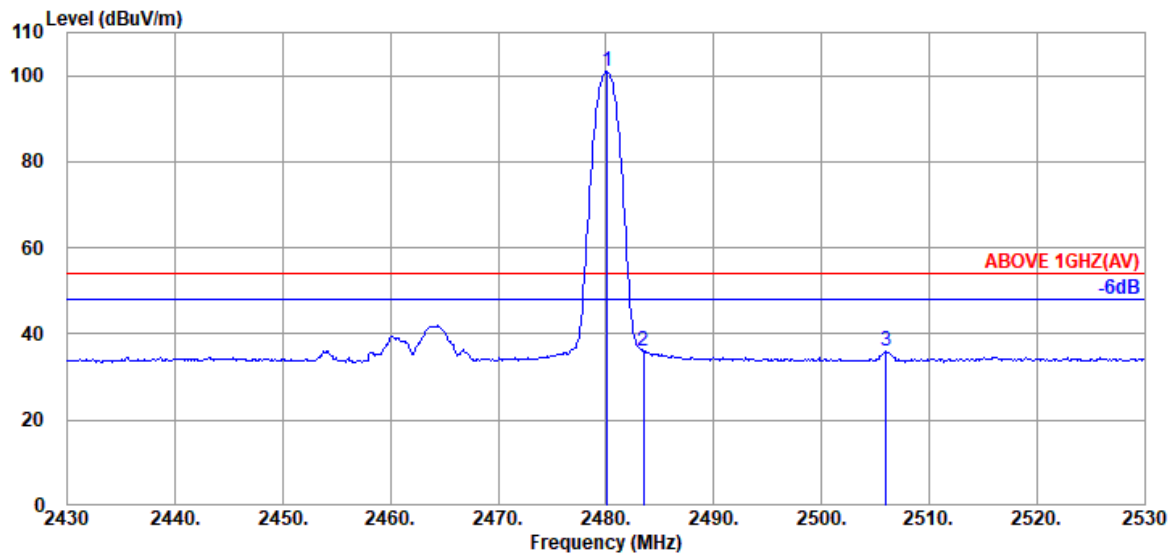
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (左耳機 L)	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
@	2479.80	32.28	7.90	60.89	101.07	---	---	Peak
	2483.50	32.28	7.90	30.51	70.69	74.00	3.31	Peak
	2483.80	32.28	7.90	30.49	70.67	74.00	3.33	Peak

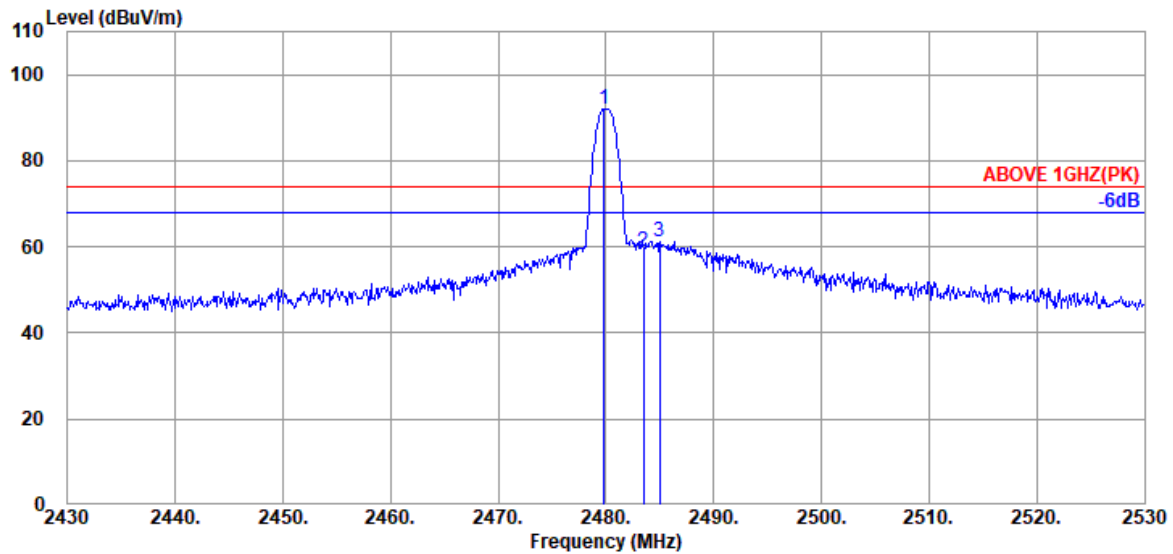


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.10	32.28	7.90	60.66	100.84	---	---	Average
	2483.50	32.28	7.90	-4.13	36.05	54.00	17.95	Average
	2506.00	32.32	7.94	-4.10	36.16	54.00	17.84	Average

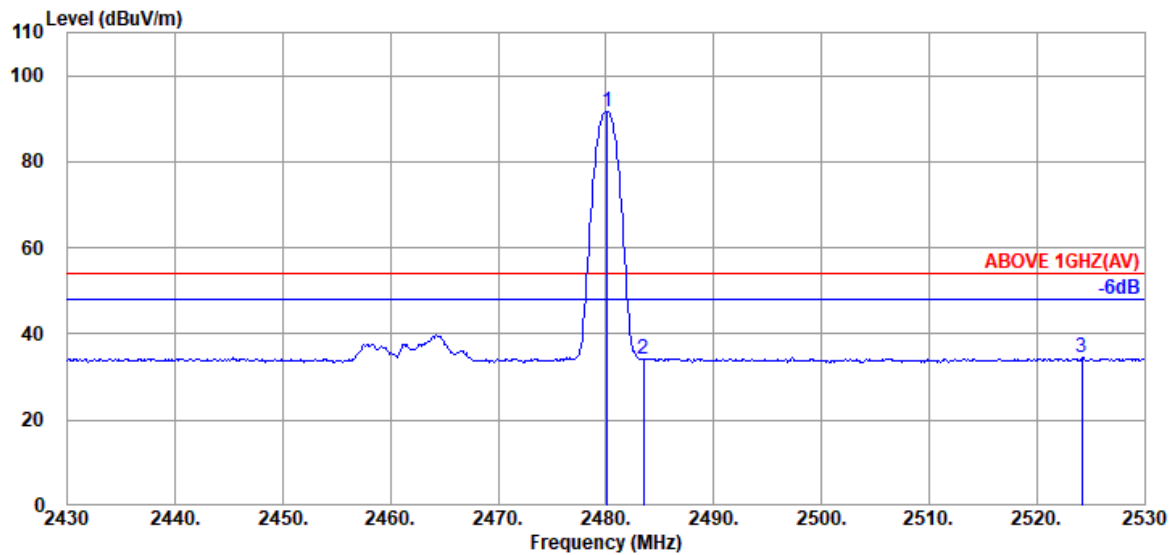
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (左耳機 L)	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
@ 2479.80	32.28	7.90	51.72	91.90	---	---	Peak
2483.50	32.28	7.90	18.94	59.12	74.00	14.88	Peak
2485.00	32.28	7.90	21.04	61.22	74.00	12.78	Peak

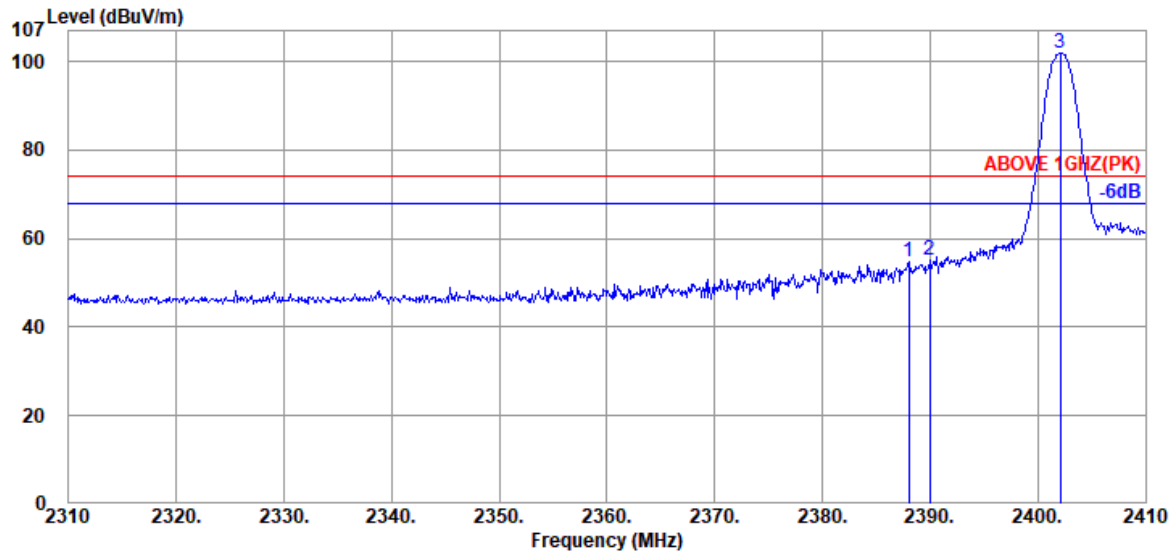


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.10	32.28	7.90	51.52	91.70	---	---	Average
2483.50	32.28	7.90	-6.19	33.99	54.00	20.01	Average
2524.20	32.34	7.98	-5.93	34.39	54.00	19.61	Average

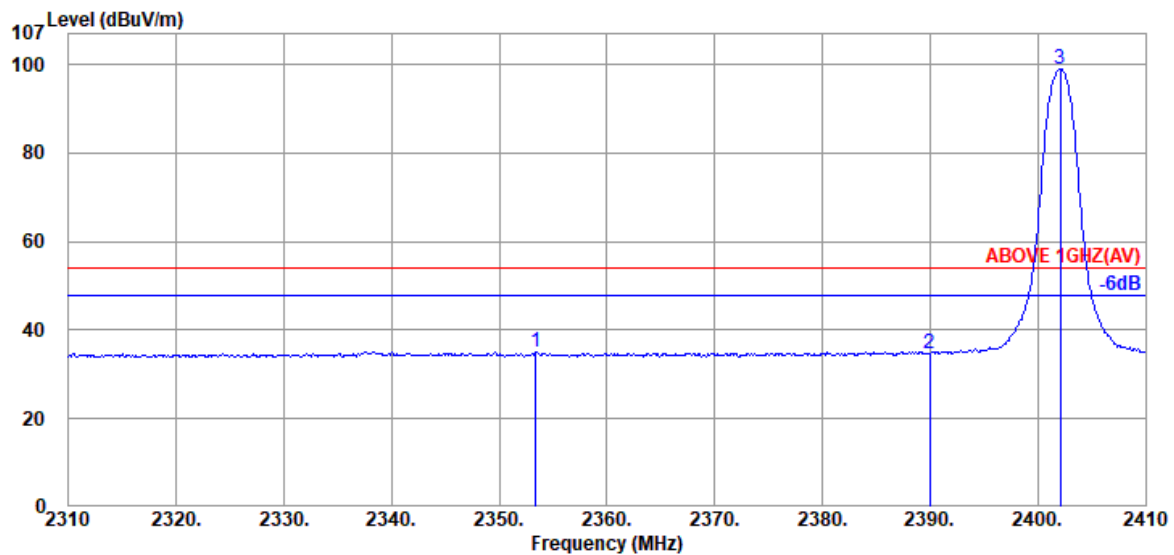
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (右耳機 R)	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
2388.00	32.16	7.92	14.68	54.76	74.00	19.24	Peak
2390.00	32.16	7.92	14.97	55.05	74.00	18.95	Peak
@ 2402.10	32.16	7.92	61.79	101.87	---	---	Peak

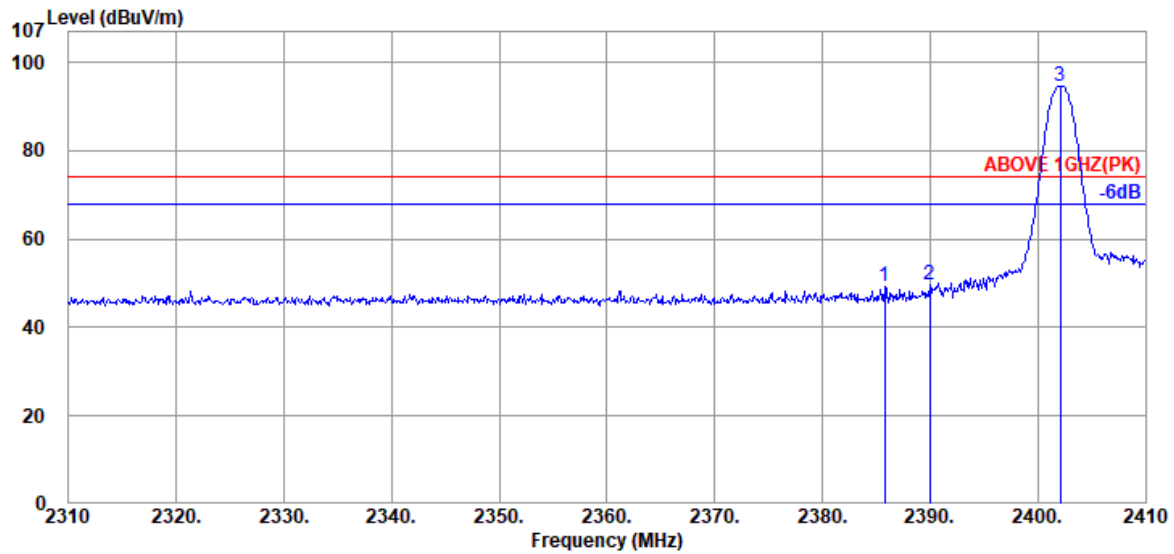


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2353.40	32.11	7.86	-4.85	35.12	54.00	18.88	Average
2390.00	32.16	7.92	-5.40	34.68	54.00	19.32	Average
@ 2402.10	32.16	7.92	58.90	98.98	---	---	Average

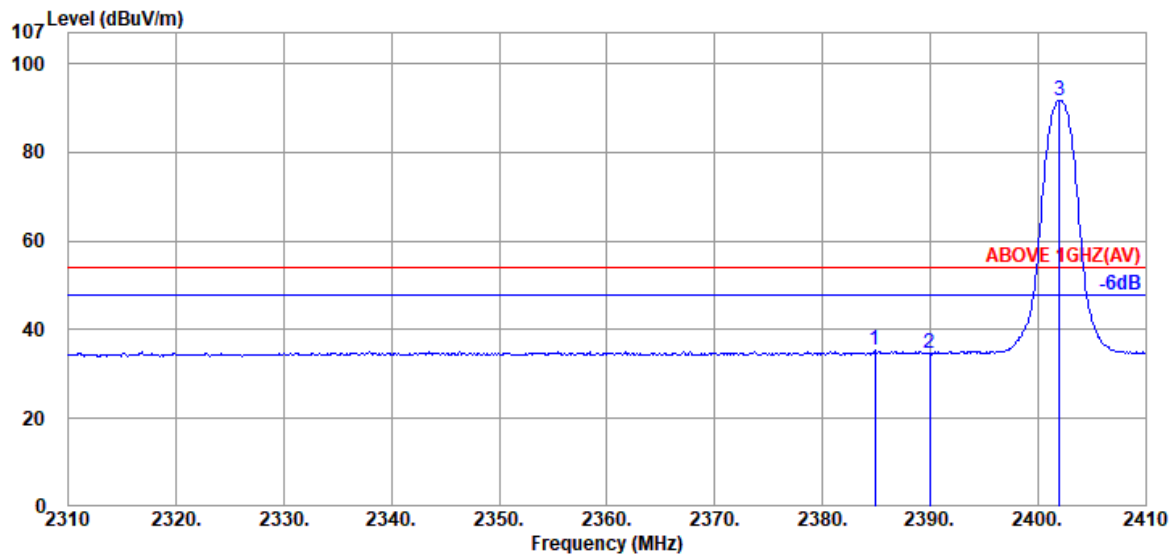
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (右耳機 R)	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
2385.80	32.16	7.92	9.13	49.21	74.00	24.79	Peak
2390.00	32.16	7.92	9.55	49.63	74.00	24.37	Peak
@ 2402.10	32.16	7.92	54.57	94.65	---	---	Peak

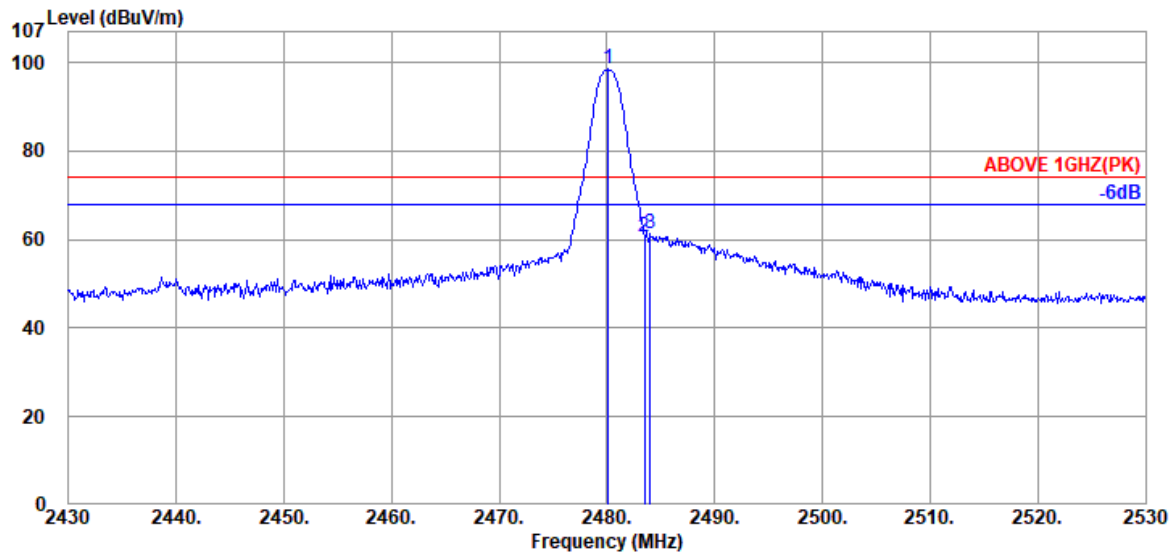


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2384.90	32.13	7.89	-4.61	35.41	54.00	18.59	Average
2390.00	32.16	7.92	-5.49	34.59	54.00	19.41	Average
@ 2402.00	32.16	7.92	51.70	91.78	---	---	Average

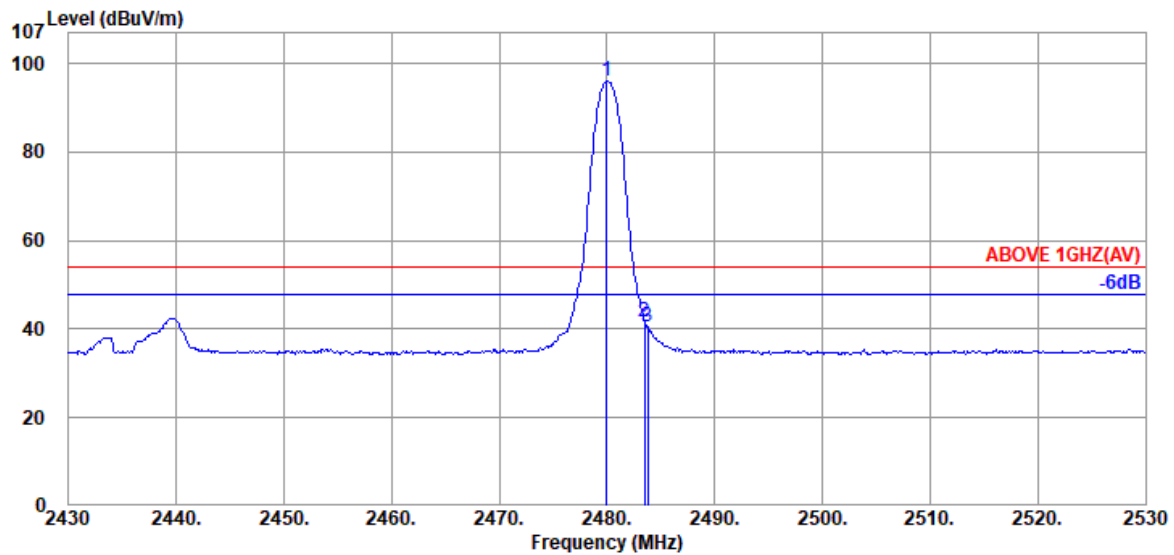
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (右耳機 R)	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
@ 2480.10	32.28	7.90	58.25	98.43	---	---	Peak
2483.50	32.28	7.90	20.57	60.75	74.00	13.25	Peak
2484.00	32.28	7.90	21.03	61.21	74.00	12.79	Peak

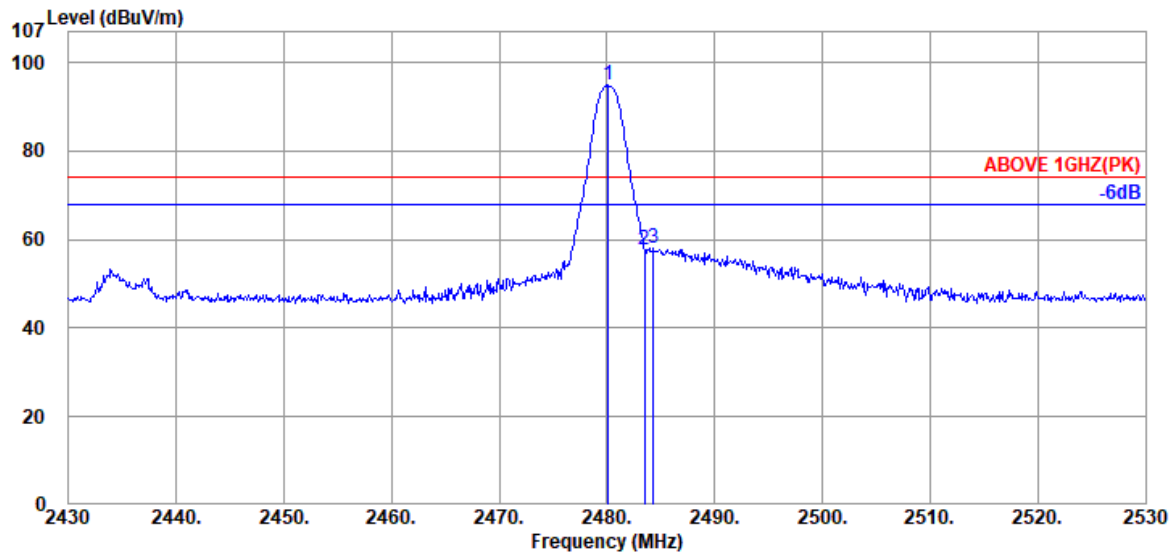


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.00	32.28	7.90	55.73	95.91	---	---	Average
2483.50	32.28	7.90	1.31	41.49	54.00	12.51	Average
2483.80	32.28	7.90	0.19	40.37	54.00	13.63	Average

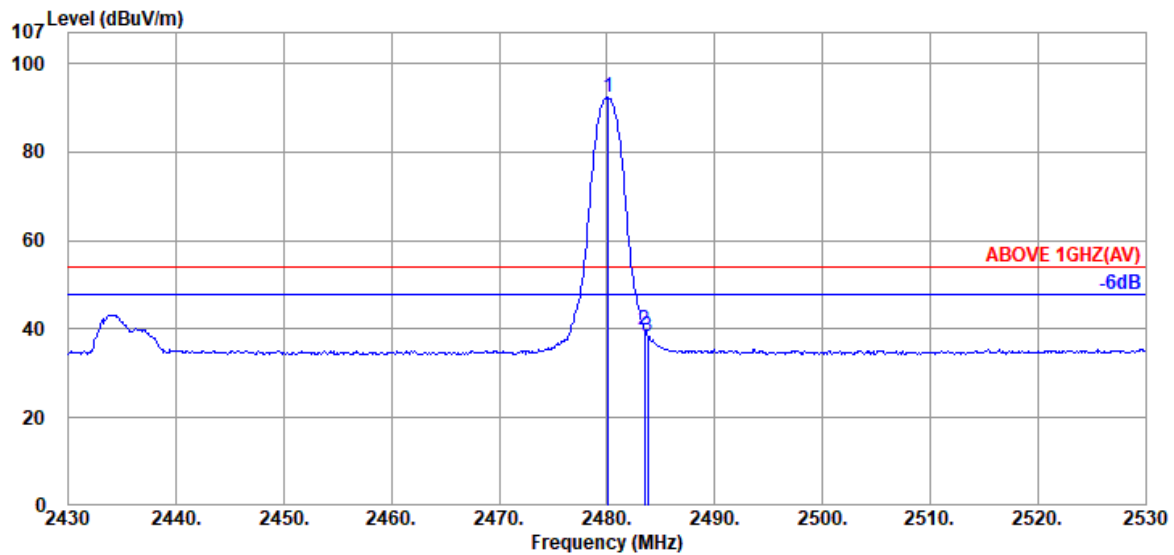
備註：“@”為主波，在此章節是不予以判定。

Mode	8-DPSK (右耳機 R)	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
@	2480.10	32.28	7.90	54.60	94.78	---	---	Peak
	2483.50	32.28	7.90	17.62	57.80	74.00	16.20	Peak
	2484.30	32.28	7.90	17.87	58.05	74.00	15.95	Peak

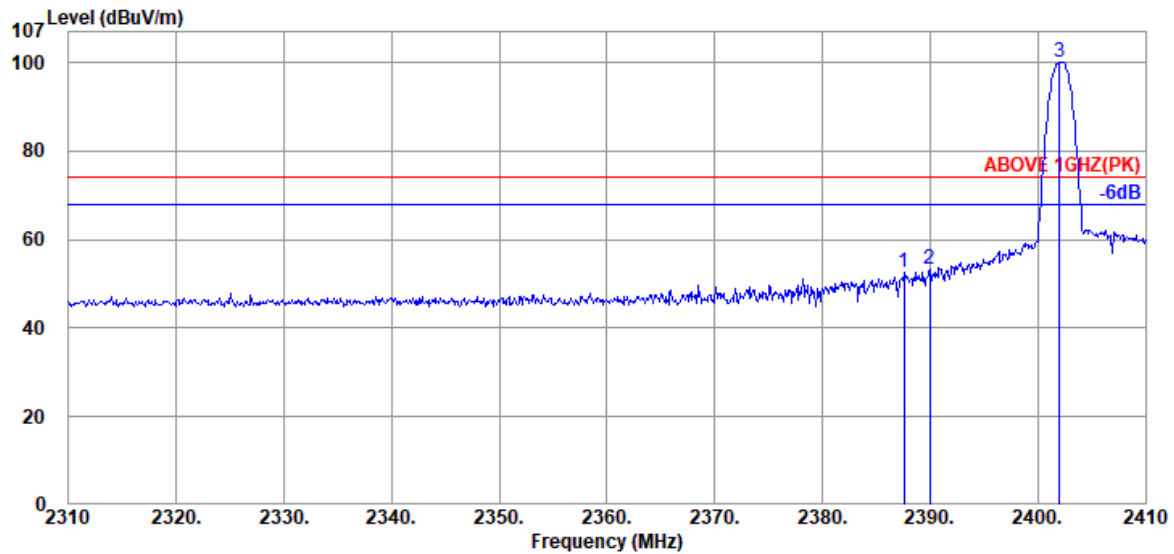


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.10	32.28	7.90	52.07	92.25	---	---	Average
	2483.50	32.28	7.90	-0.29	39.89	54.00	14.11	Average
	2483.80	32.28	7.90	-1.76	38.42	54.00	15.58	Average

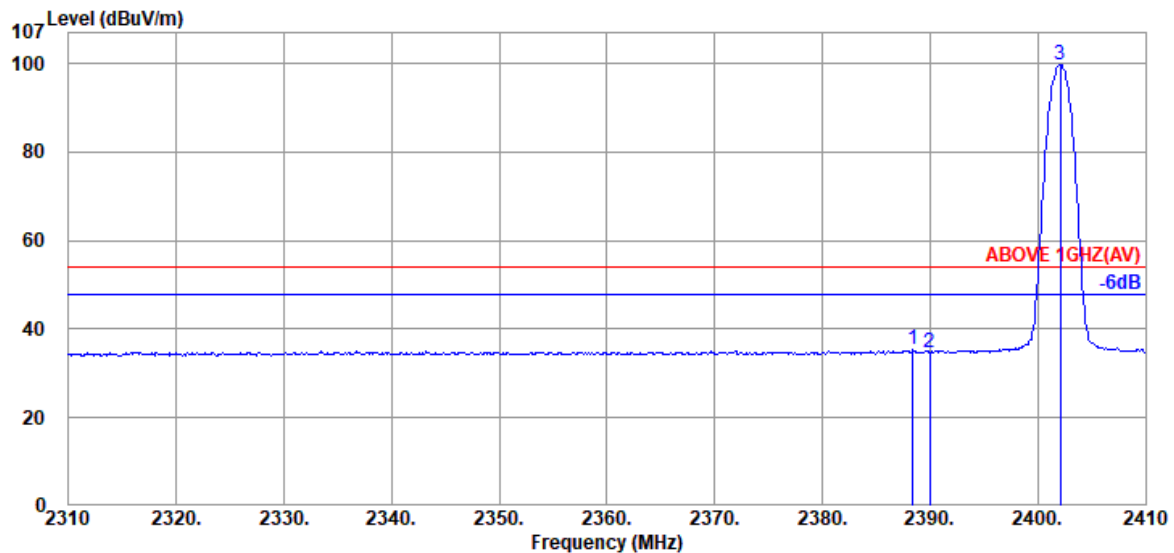
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (右耳機 R)	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
2387.60	32.16	7.92	12.48	52.56	74.00	21.44	Peak
2390.00	32.16	7.92	13.32	53.40	74.00	20.60	Peak
@ 2402.00	32.16	7.92	59.91	99.99	---	---	Peak

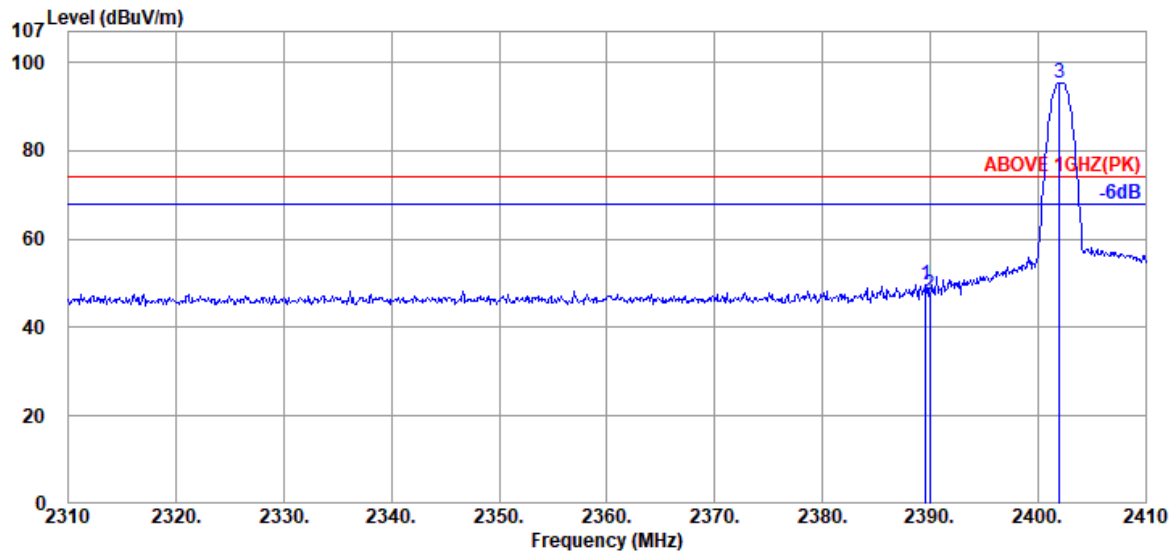


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.40	32.16	7.92	-4.74	35.34	54.00	18.66	Average
2390.00	32.16	7.92	-5.34	34.74	54.00	19.26	Average
@ 2402.10	32.16	7.92	59.73	99.81	---	---	Average

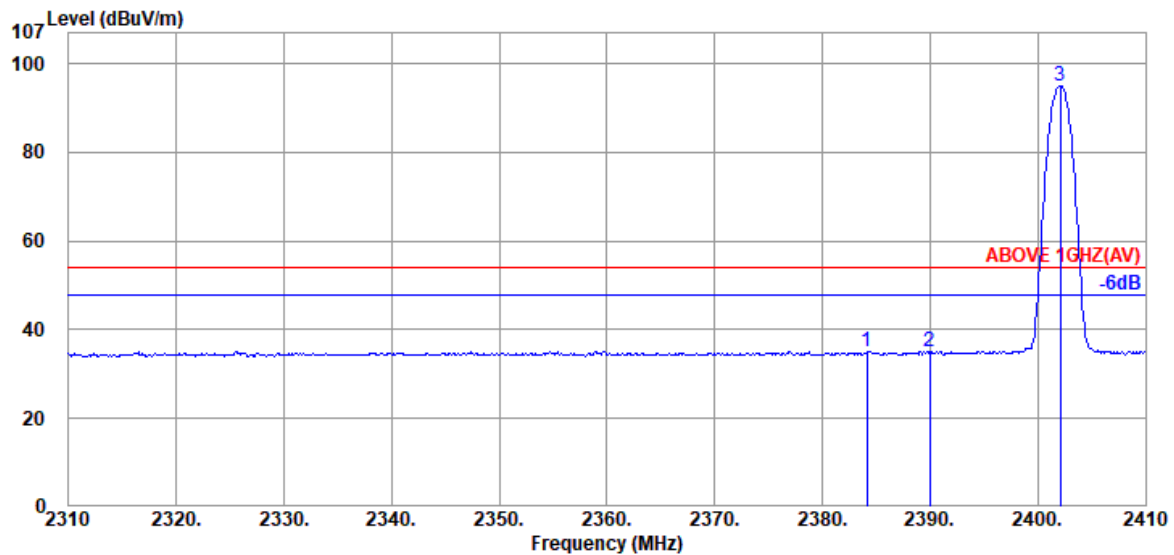
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (右耳機 R)	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
2389.60	32.16	7.92	9.57	49.65	74.00	24.35	Peak
2390.00	32.16	7.92	7.46	47.54	74.00	26.46	Peak
@ 2402.00	32.16	7.92	55.24	95.32	---	---	Peak

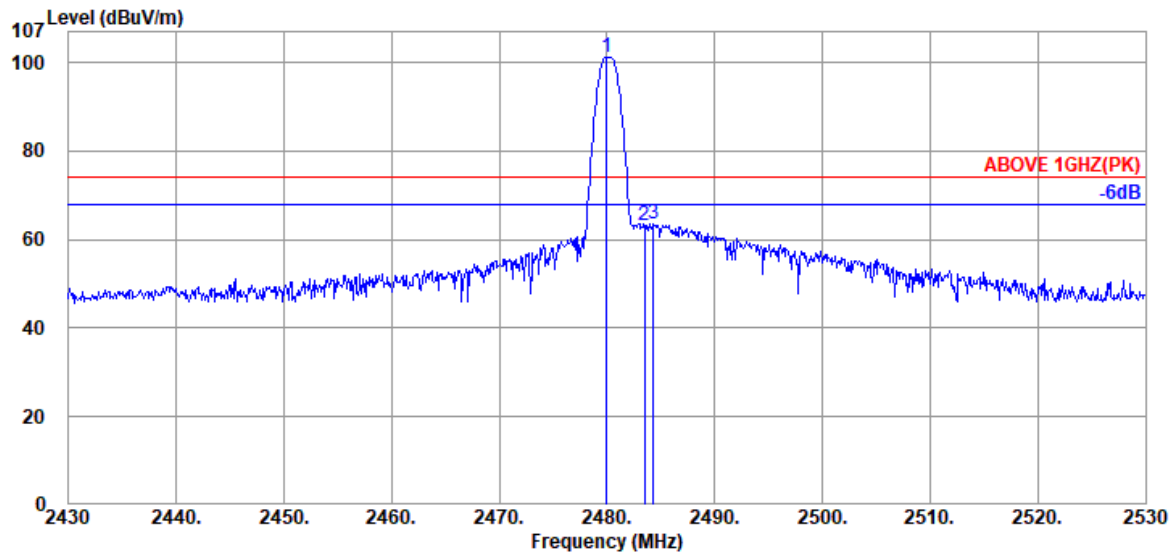


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2384.10	32.13	7.89	-4.82	35.20	54.00	18.80	Average
2390.00	32.16	7.92	-5.11	34.97	54.00	19.03	Average
@ 2402.10	32.16	7.92	55.00	95.08	---	---	Average

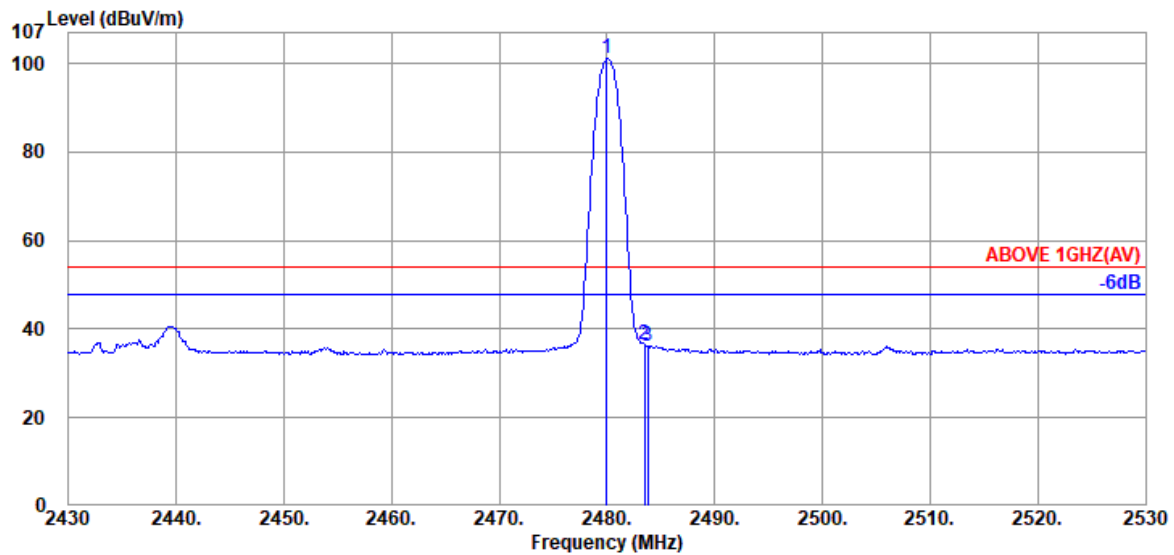
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (右耳機 R)	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
@ 2480.00	32.28	7.90	61.05	101.23	---	---	Peak
2483.50	32.28	7.90	23.09	63.27	74.00	10.73	Peak
2484.30	32.28	7.90	23.25	63.43	74.00	10.57	Peak

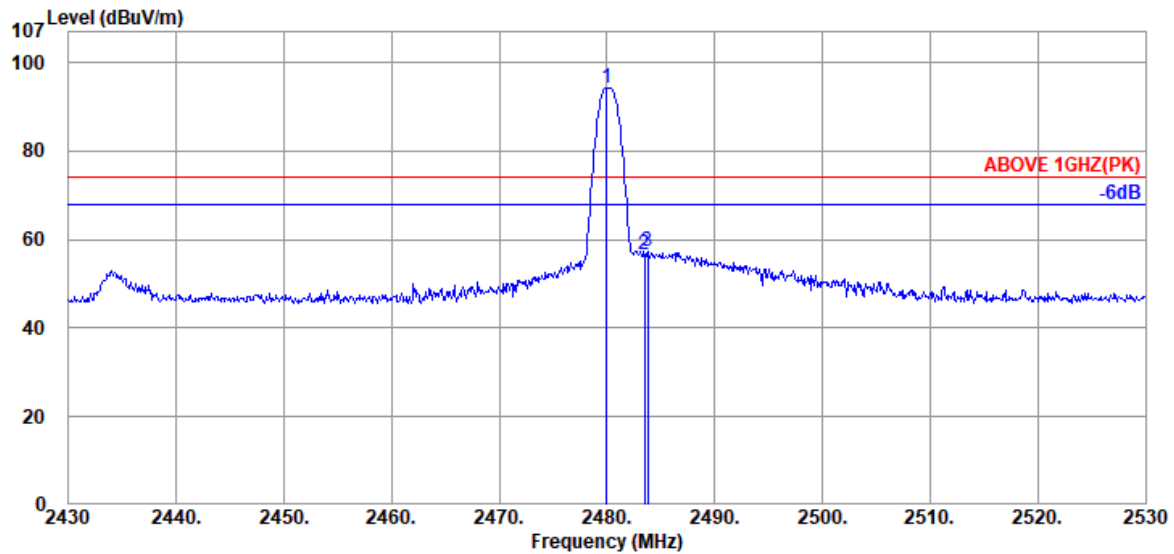


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.00	32.28	7.90	60.81	100.99	---	---	Average
2483.50	32.28	7.90	-3.72	36.46	54.00	17.54	Average
2483.80	32.28	7.90	-3.89	36.29	54.00	17.71	Average

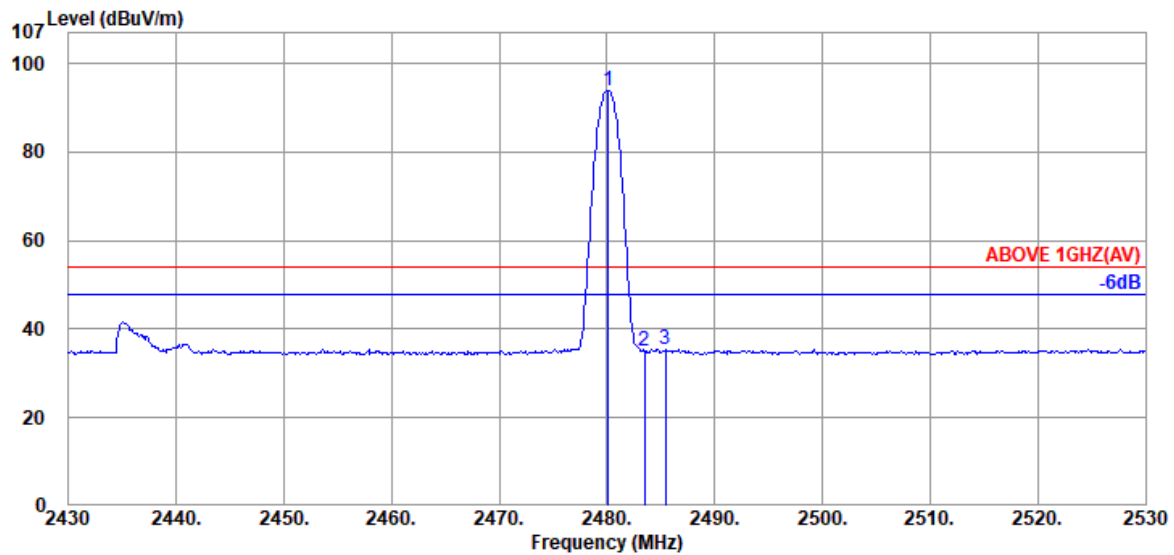
備註：“@”為主波，在此章節是不予以判定。

Mode	GFSK (右耳機 R)	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	53.99	94.17	---	---	Peak
	2483.50	32.28	7.90	16.58	56.76	74.00	17.24	Peak
	2483.80	32.28	7.90	17.05	57.23	74.00	16.77	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
@	2480.10	32.28	7.90	53.81	93.99	---	---	Average
	2483.50	32.28	7.90	-4.97	35.21	54.00	18.79	Average
	2485.40	32.28	7.90	-4.58	35.60	54.00	18.40	Average

備註：“@”為主波，在此章節是不予以判定。

3. 20dB 頻寬之量測

測試日期	2019/02/01 ~ 13	環境溫/濕度	22 ~23℃/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)

3.1. 20dB 頻寬

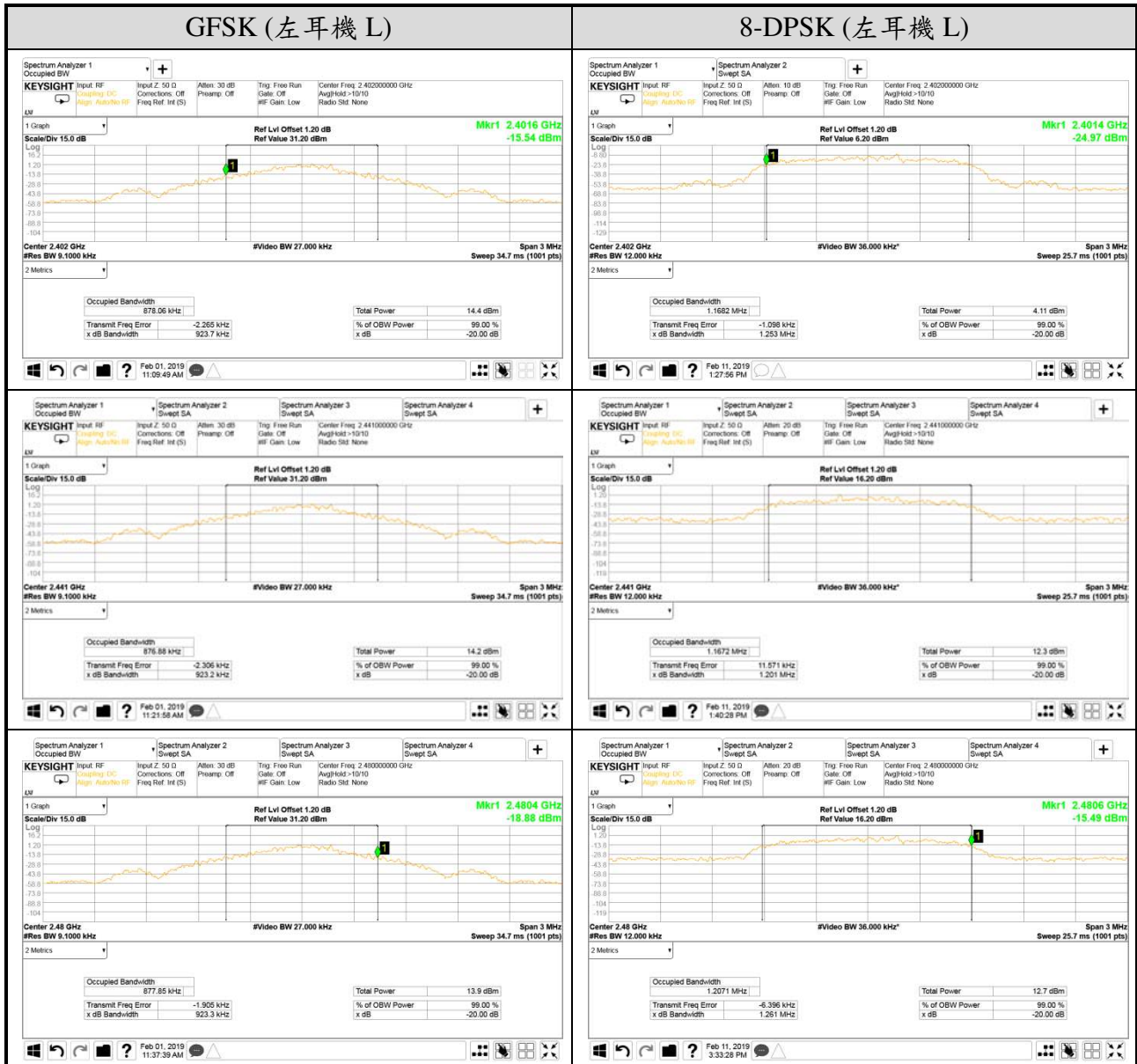
模式	測試頻率 (MHz)	20dB 頻寬 (MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK (左耳機 L)	2402	0.9237	0.616
	2441	0.9232	0.615
	2480	0.9233	0.616

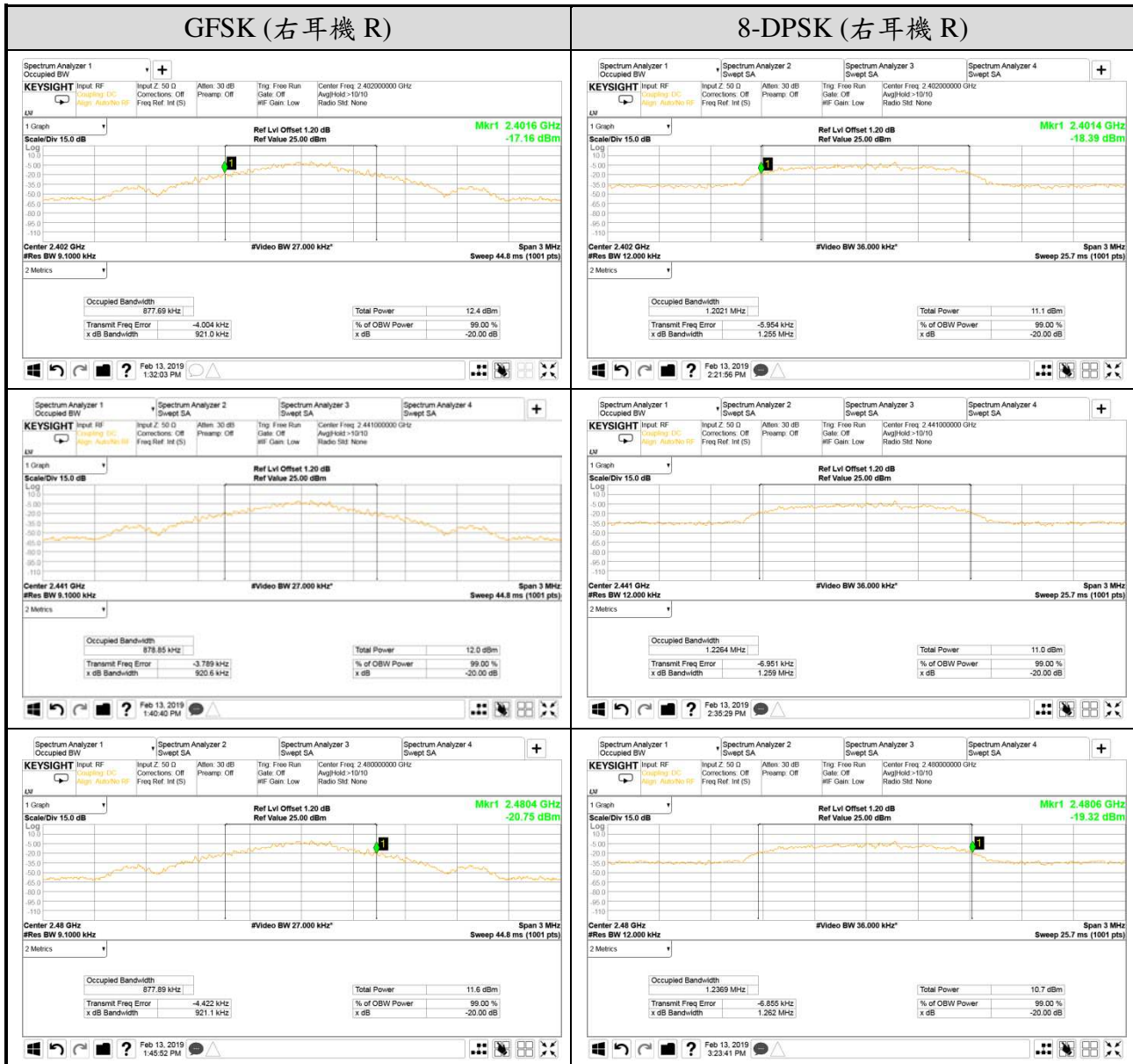
模式	測試頻率 (MHz)	20dB 頻寬 (MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
8-DPSK (左耳機 L)	2402	1.253	0.835
	2441	1.201	0.801
	2480	1.261	0.841

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 R)	2402	0.9210	0.614
	2441	0.9206	0.614
	2480	0.9211	0.614

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)
8-DPSK (右耳機 R)	2402	1.255	0.837
	2441	1.259	0.839
	2480	1.262	0.841

3.2. 20dB 頻寬之量測圖





4. 載波頻率間隔之量測

測試日期	2019/02/01 ~ 13	環境溫/濕度	22 ~23℃/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)

4.1. 載波頻率間隔

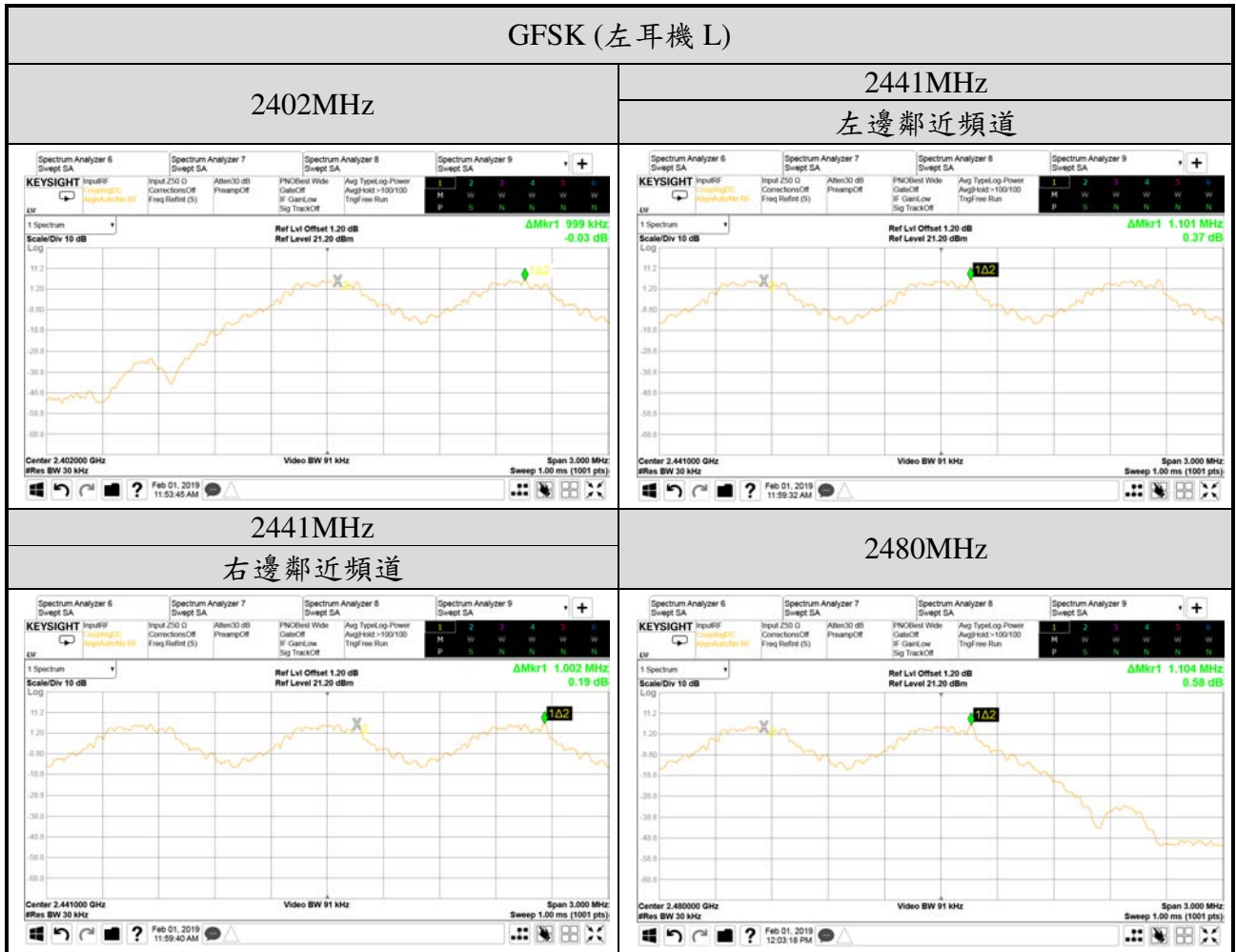
模式 (Mode)	測試頻率 (MHz)	頻道間隔(MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK (左耳機 L)	2402	0.999	>0.616
	2441 (左邊鄰近頻道)	1.101	
	2441 (右邊鄰近頻道)	1.002	
	2480	1.104	

模式 (Mode)	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)
8-DPSK (左耳機 L)	2402	1.143	>0.841
	2441 (左邊鄰近頻道)	0.993	
	2441 (右邊鄰近頻道)	1.002	
	2480	0.996	

模式 (Mode)	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 R)	2402	0.999	>0.614
	2441 (左邊鄰近頻道)	1.110	
	2441 (右邊鄰近頻道)	0.993	
	2480	1.104	

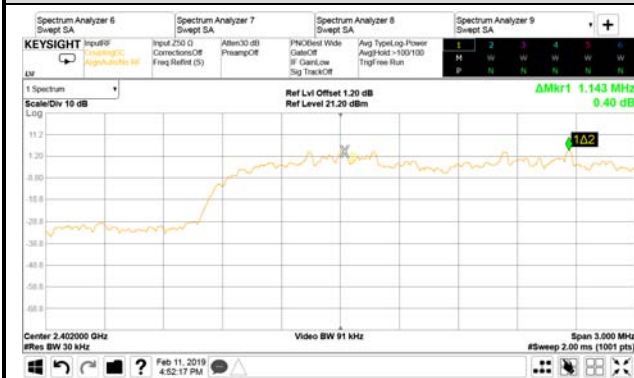
模式 (Mode)	測試頻率 (MHz)	頻道間隔(MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
8-DPSK (右耳機 R)	2402	0.999	>0.841
	2441 (左邊鄰近頻道)	1.008	
	2441 (右邊鄰近頻道)	1.008	
	2480	1.008	

4.2. 載波頻率間隔之量測圖



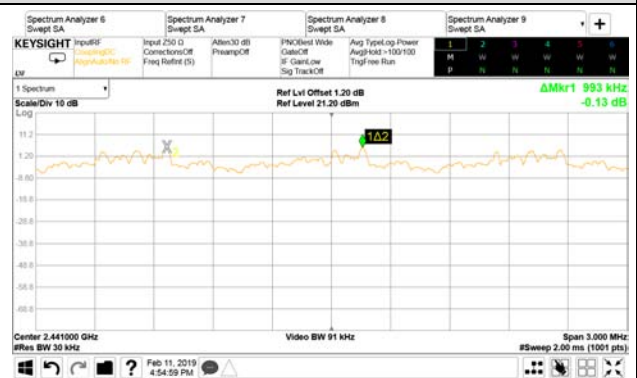
8-DPSK (左耳機 L)

2402MHz



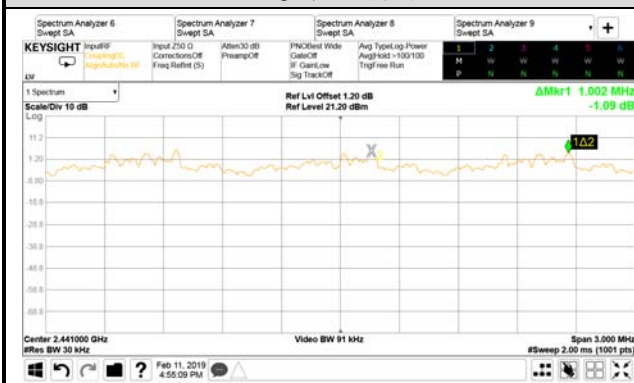
2441MHz

左邊鄰近頻道

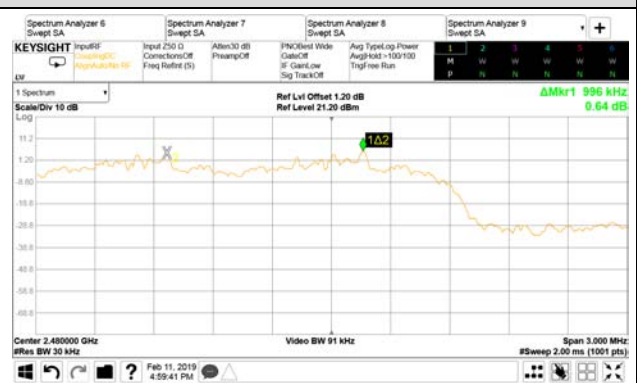


2441MHz

右邊鄰近頻道

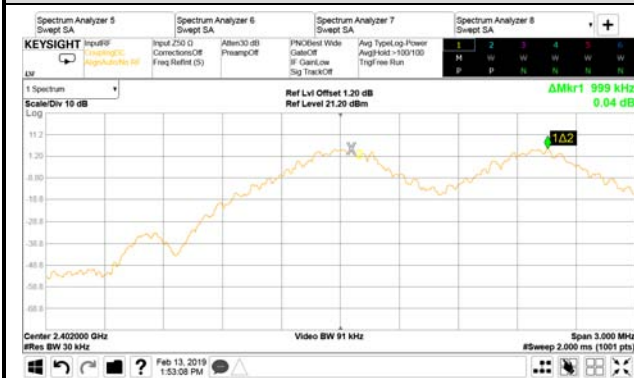


2480MHz



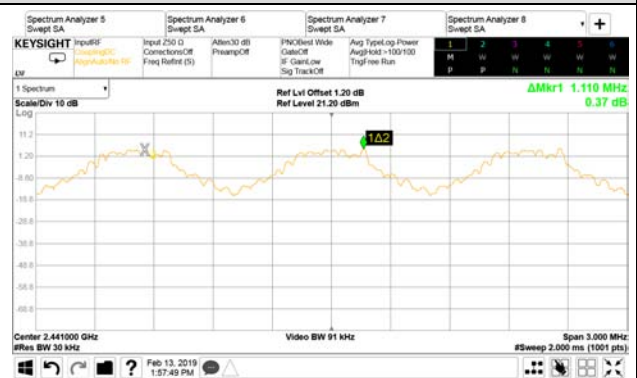
GFSK (右耳機 R)

2402MHz



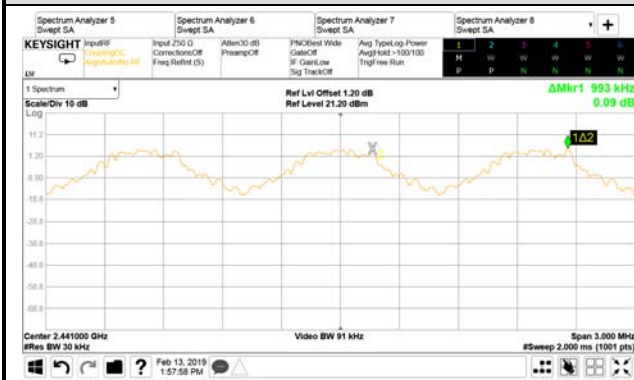
2441MHz

左邊鄰近頻道

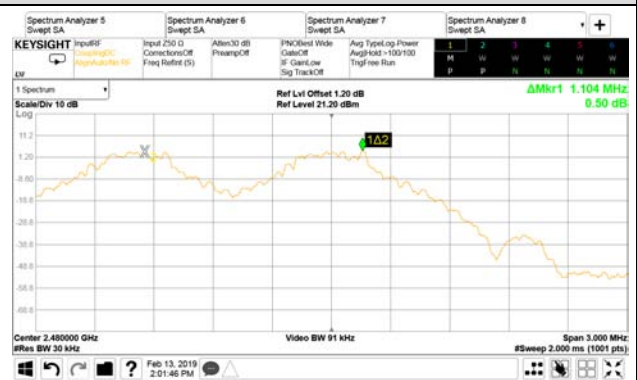


2441MHz

右邊鄰近頻道

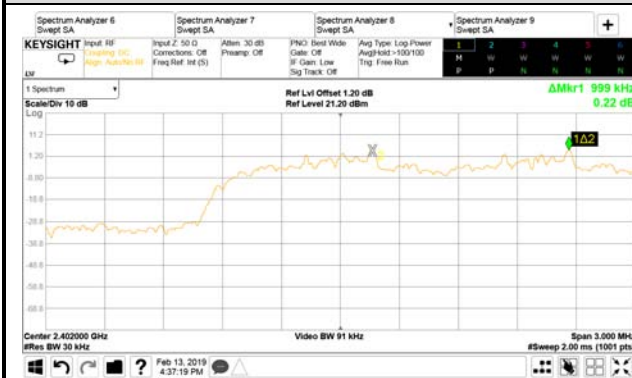


2480MHz



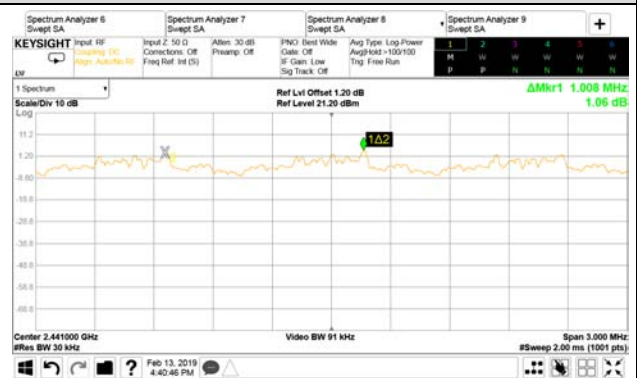
8-DPSK (右耳機 R)

2402MHz



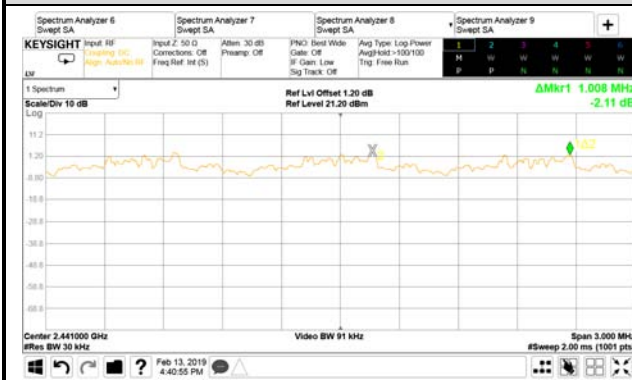
2441MHz

左邊鄰近頻道

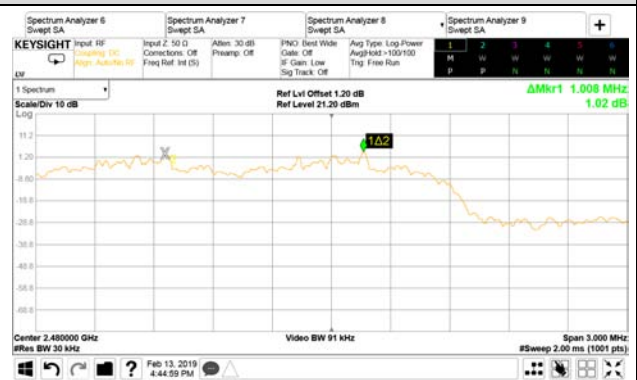


2441MHz

右邊鄰近頻道

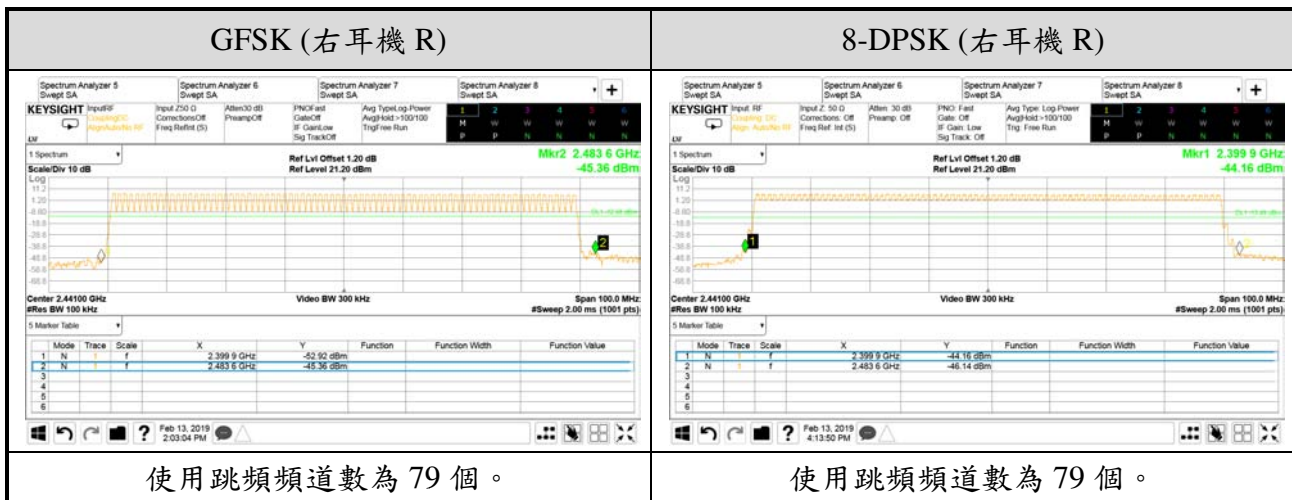
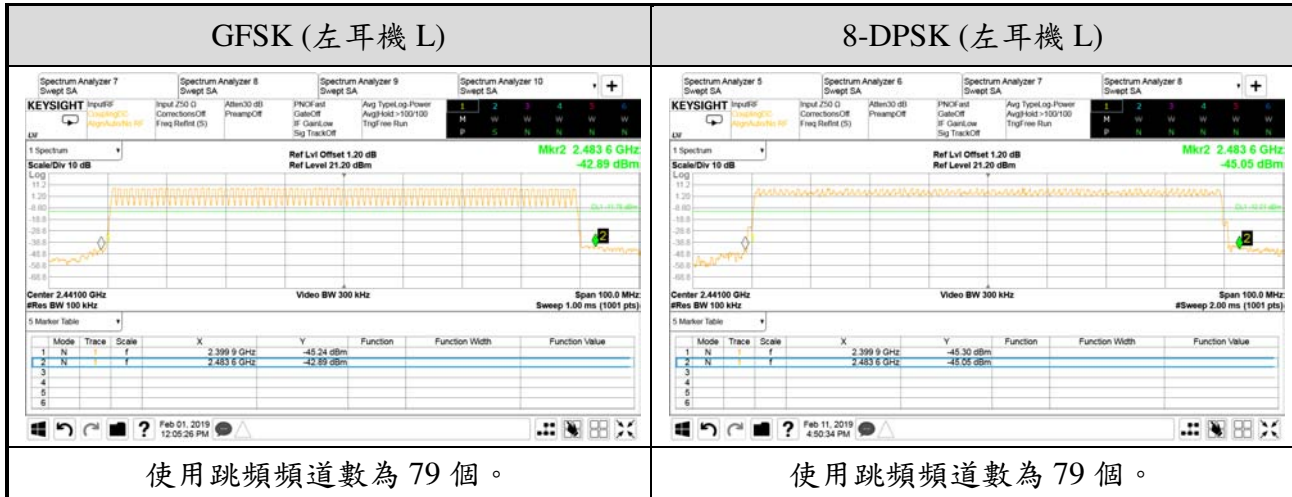


2480MHz



5. 跳頻頻率數目之量測

測試日期	2019/02/01 ~ 13	環境溫/濕度	22 ~23°C/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)



6. 佔用時間(停留時間)之量測

測試日期	2019/02/01 ~ 14	環境溫/濕度	22 ~23℃/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)

6.1. 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L)	2402	DH1	10	0.370	116.920	<400
		DH3	5	1.627	257.066	<400
		DH5	3	2.880	273.024	<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:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.370 \text{ ms} = 116.920 \text{ ms} (<400\text{ms})$$

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:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$$

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:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

GFSK (左耳機 L)

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L)	2441	DH1	10	0.370	116.920	<400
		DH3	5	1.627	257.066	<400
		DH5	3	2.870	272.076	<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:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.370 \text{ ms} = 116.920 \text{ ms} (<400\text{ms})$$

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:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$$

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:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.870 \text{ ms} = 272.076 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

GFSK (左耳機 L)

2441MHz

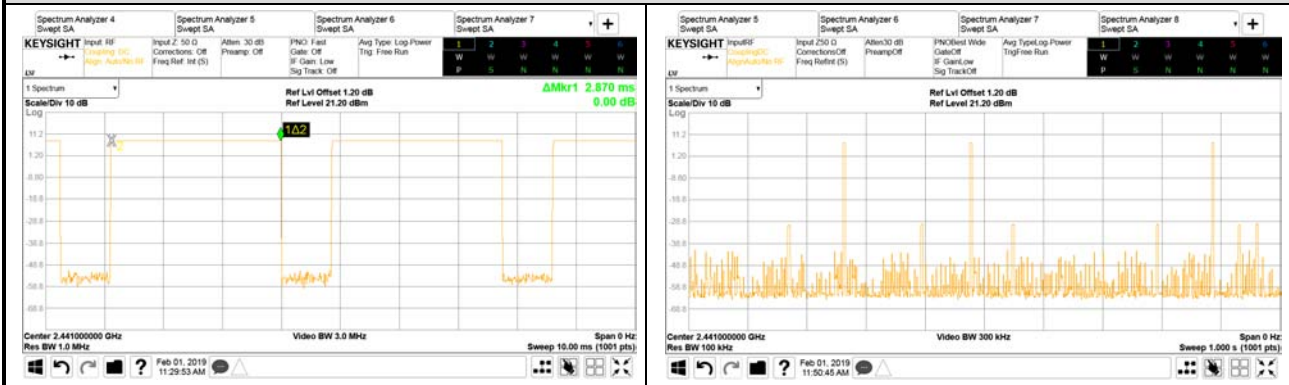
DH1



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L)	2480	DH1	10	0.370	116.920	<400
		DH3	5	1.627	257.066	<400
		DH5	3	2.880	273.024	<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:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.370 \text{ ms} = 116.920 \text{ ms} (<400\text{ms})$$

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:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$$

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:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

GFSK (左耳機 L)

2480MHz

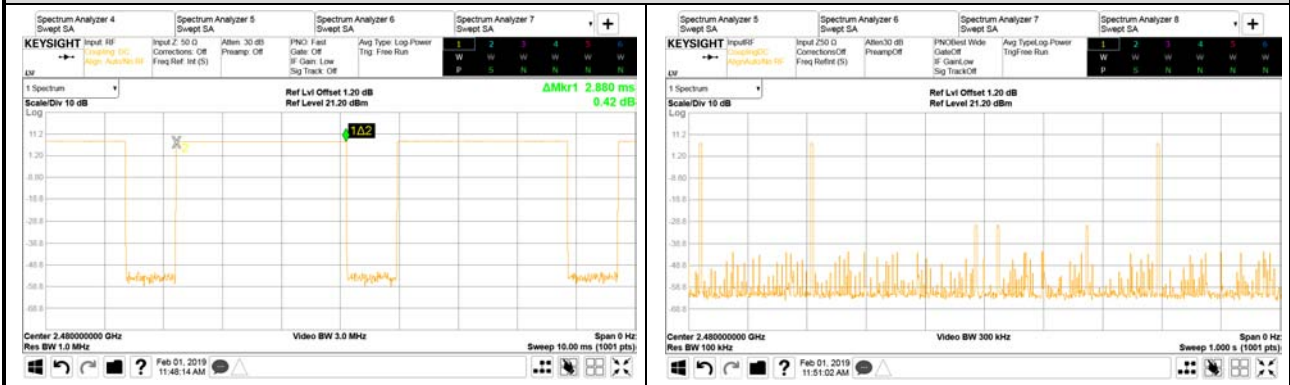
DH1



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)
8-DPSK (左耳機L)	2402	3DH1	10	0.378	119.448	<400
		3DH3	5	1.627	257.066	<400
		3DH5	3	2.880	273.024	<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:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.378 \text{ ms} = 119.448 \text{ ms} (<400\text{ms})$

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:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$

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:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

8-DPSK (左耳機 L)

2402MHz

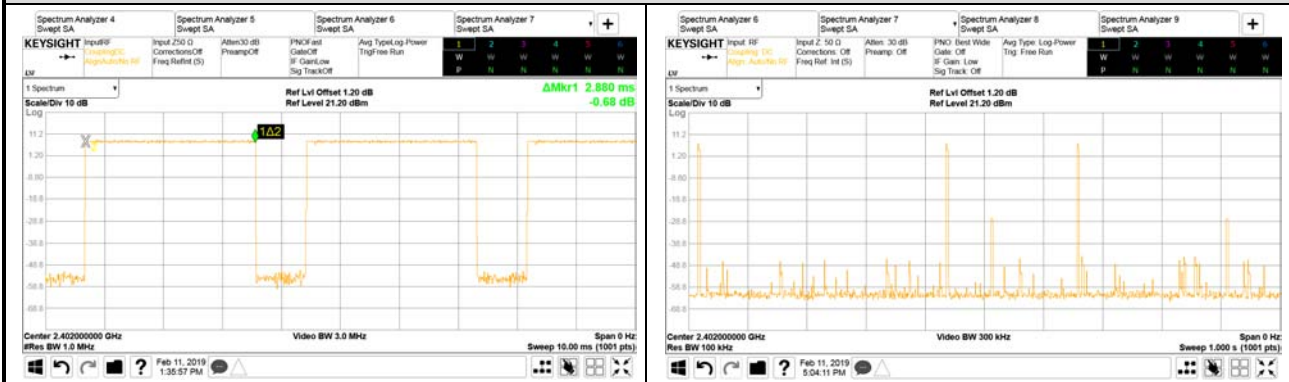
3DH1



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 (左耳機L)	2441	3DH1	10	0.378	119.448	<400
		3DH3	5	1.627	257.066	<400
		3DH5	3	2.880	273.024	<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:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.378 \text{ ms} = 119.448 \text{ ms} (<400\text{ms})$

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:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$

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:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

8-DPSK (左耳機 L)

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L)	2480	3DH1	10	0.378	119.448	<400
		3DH3	5	1.627	257.066	<400
		3DH5	3	2.880	273.024	<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:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.378 \text{ ms} = 119.448 \text{ ms} (<400\text{ms})$

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:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$

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:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

8-DPSK (左耳機 L)

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R)	2402	DH1	10	0.370	116.920	<400
		DH3	5	1.627	257.066	<400
		DH5	3	2.870	272.076	<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:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.370 \text{ ms} = 116.920 \text{ ms} (<400\text{ms})$$

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:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$$

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:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.870 \text{ ms} = 272.076 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

GFSK (右耳機 R)

2402MHz

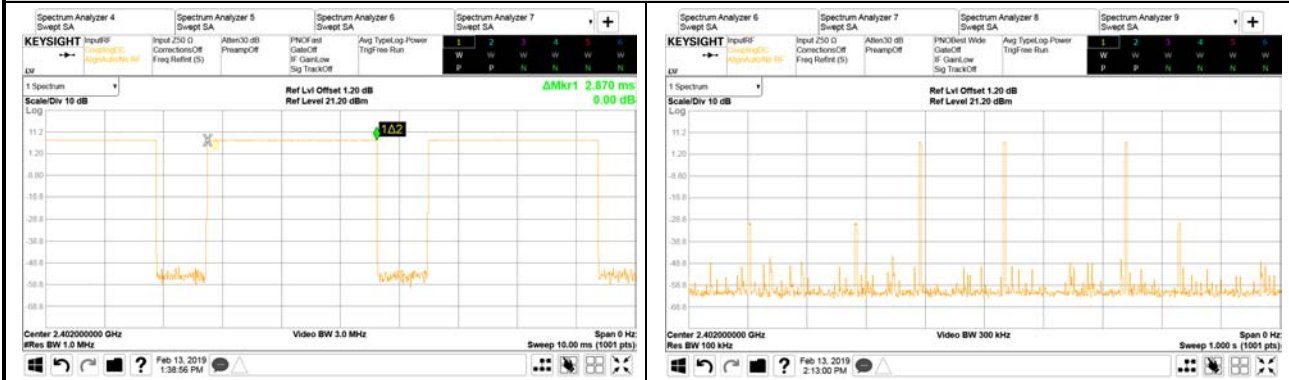
DH1



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 (右耳機R)	2441	DH1	10	0.370	116.920	<400
		DH3	5	1.620	255.960	<400
		DH5	3	2.870	272.076	<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:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.370 \text{ ms} = 116.920 \text{ ms} (<400\text{ms})$$

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:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.620 \text{ ms} = 255.960 \text{ ms} (<400\text{ms})$$

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:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.870 \text{ ms} = 272.076 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

GFSK (右耳機 R)

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 (右耳機R)	2480	DH1	10	0.370	116.920	<400
		DH3	5	1.627	257.066	<400
		DH5	3	2.880	273.024	<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:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.370 \text{ ms} = 116.920 \text{ ms} (<400\text{ms})$$

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:

$$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$$

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:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

GFSK (右耳機 R)

2480MHz

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)
8-DPSK (右耳機R)	2402	3DH1	10	0.378	119.448	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.880	273.024	<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:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.378 \text{ ms} = 119.448 \text{ ms} (<400\text{ms})$

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:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.635 \text{ ms} = 258.330 \text{ ms} (<400\text{ms})$

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:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

8-DPSK (右耳機 R)

2402MHz

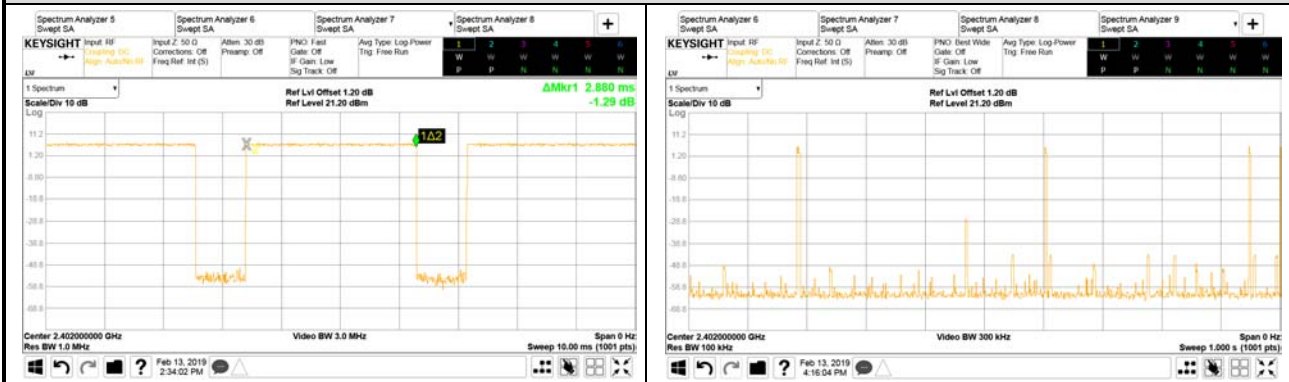
3DH1



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R)	2441	3DH1	10	0.378	119.448	<400
		3DH3	5	1.627	257.066	<400
		3DH5	3	2.880	273.024	<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:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.378 \text{ ms} = 119.448 \text{ ms} (<400\text{ms})$

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:

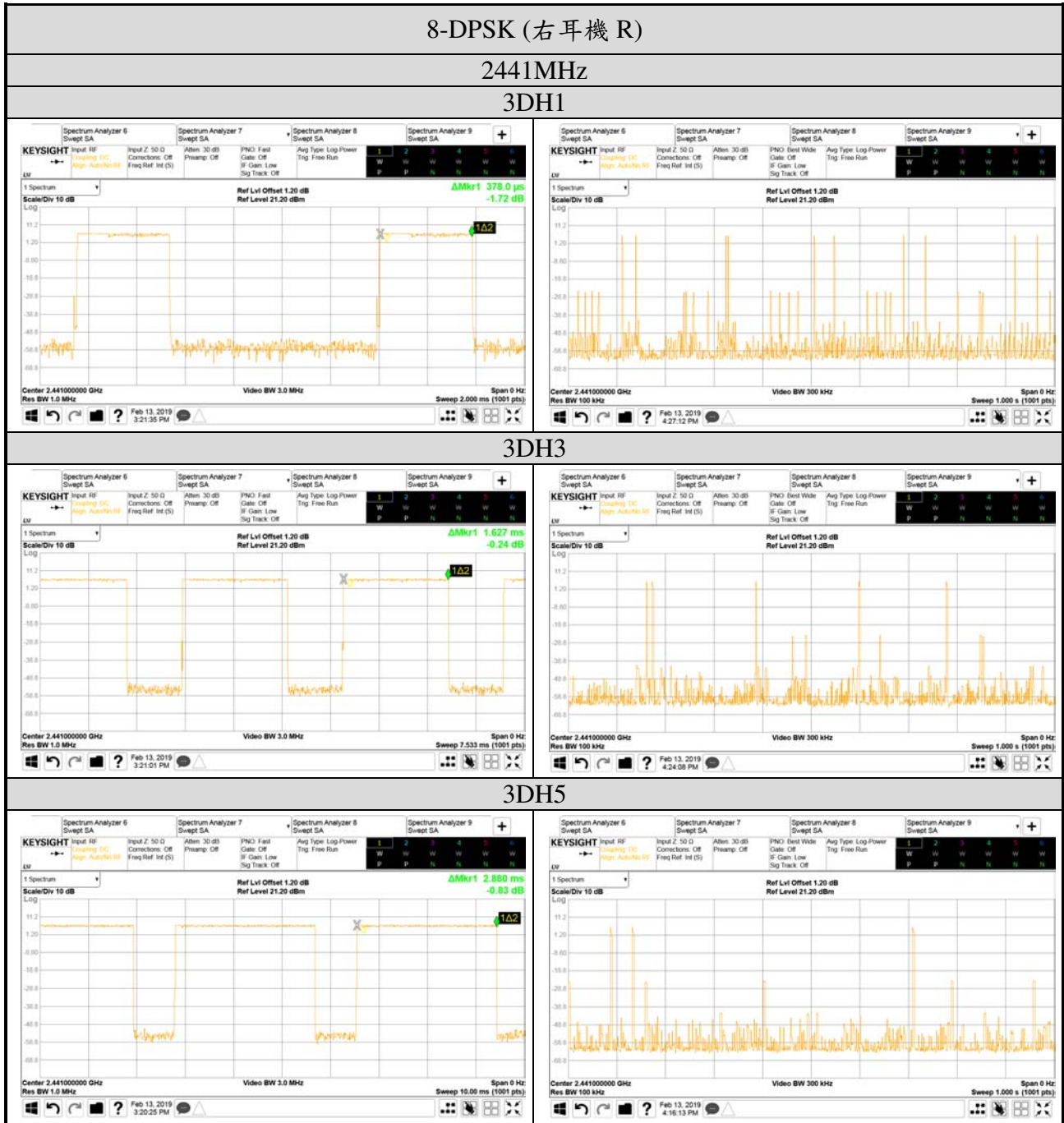
$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$

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:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● 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R)	2480	3DH1	10	0.378	119.448	<400
		3DH3	5	1.627	257.066	<400
		3DH5	3	2.880	273.024	<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:

$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.378 \text{ ms} = 119.448 \text{ ms} (<400\text{ms})$

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:

$5 \text{ 頻道數} * 31.6 \text{ 秒} * 1.627 \text{ ms} = 257.066 \text{ ms} (<400\text{ms})$

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:

$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● 佔用時間(停留時間)之量測圖

8-DPSK (右耳機 R)

2480MHz

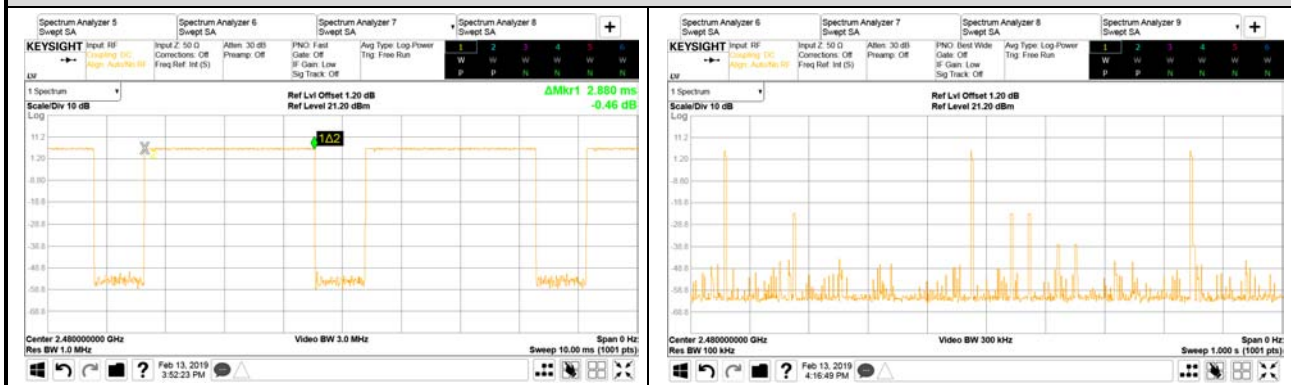
3DH1



3DH3



3DH5



7. 峰值輸出功率之量測

測試日期	2019/02/01 ~ 13	環境溫/濕度	22 ~23℃/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)

7.1. 峰值輸出功率

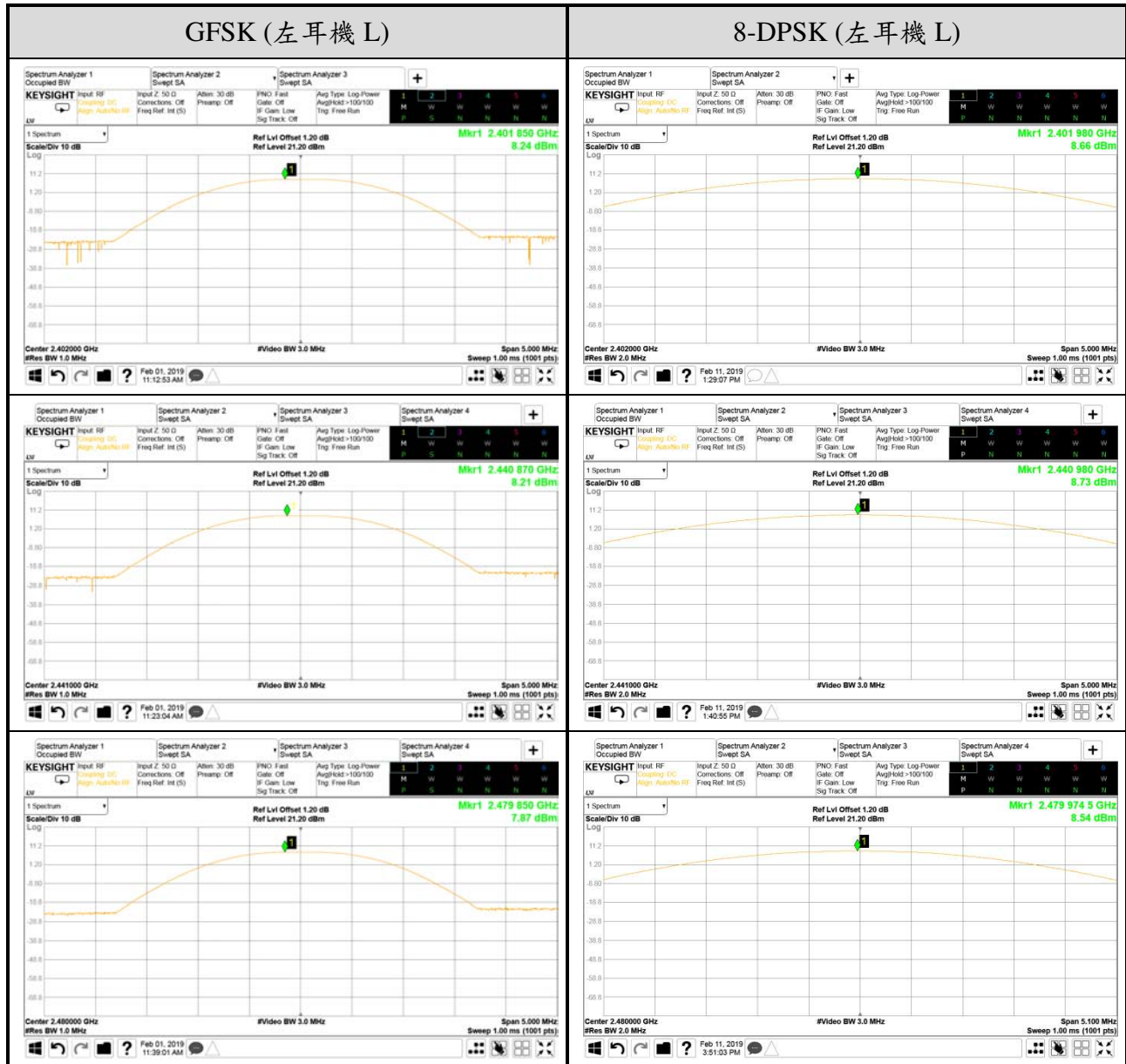
模式	測試頻率 (MHz)	峰值輸出功率(dBm)
GFSK (左耳機 L)	2402	8.24
	2441	8.21
	2480	7.87

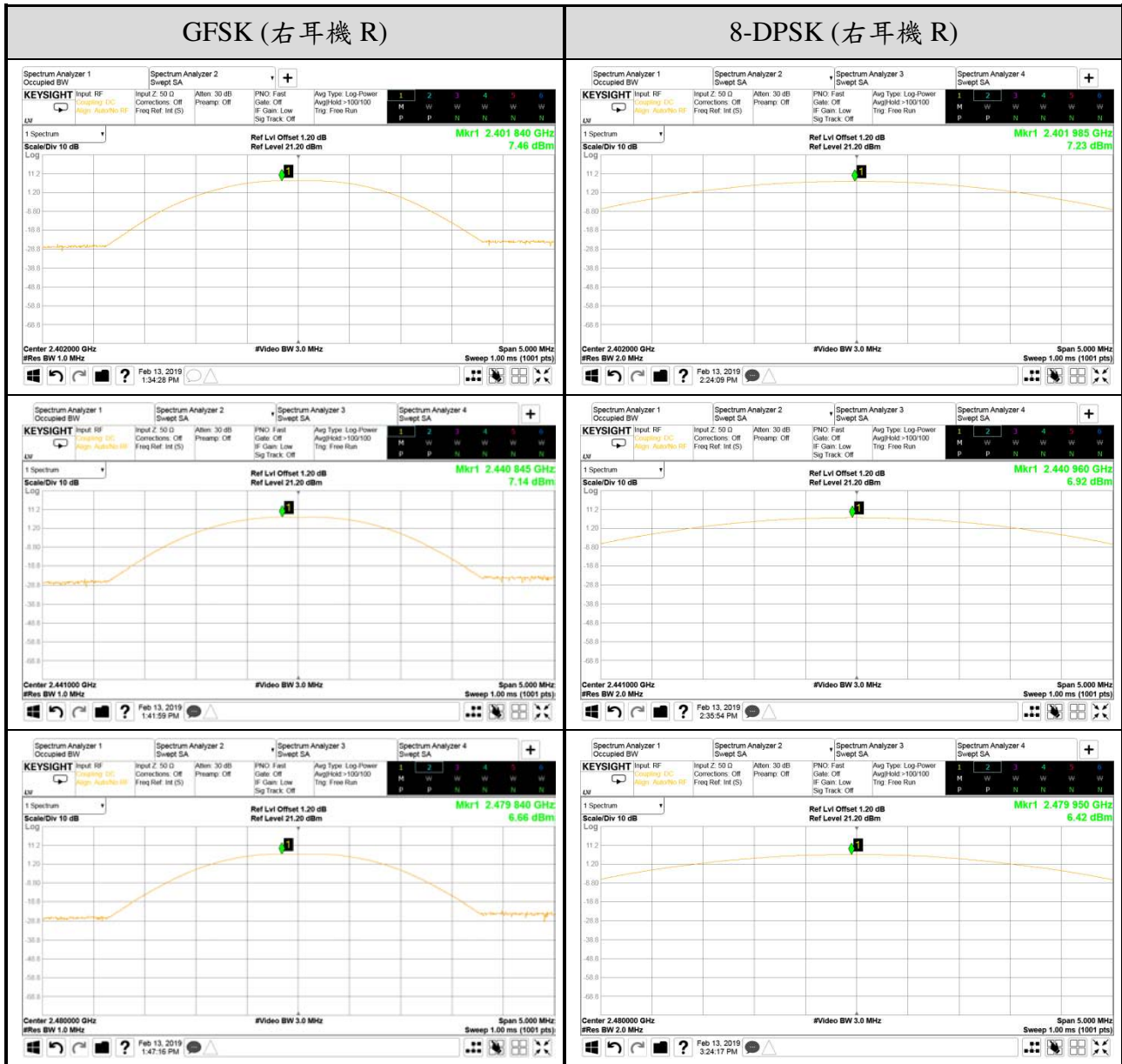
模式	測試頻率 (MHz)	峰值輸出功率(dBm)
8-DPSK (左耳機 L)	2402	8.66
	2441	8.73
	2480	8.54

模式	測試頻率 (MHz)	峰值輸出功率(dBm)
GFSK (右耳機 R)	2402	7.46
	2441	7.14
	2480	6.66

模式	測試頻率 (MHz)	峰值輸出功率(dBm)
8-DPSK (右耳機 R)	2402	7.23
	2441	6.92
	2480	6.42

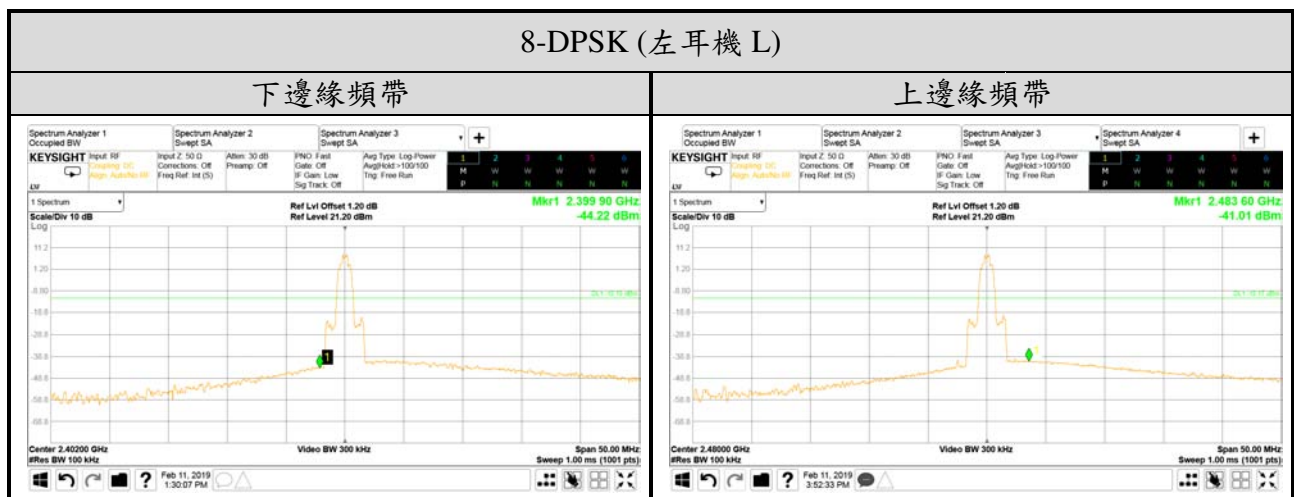
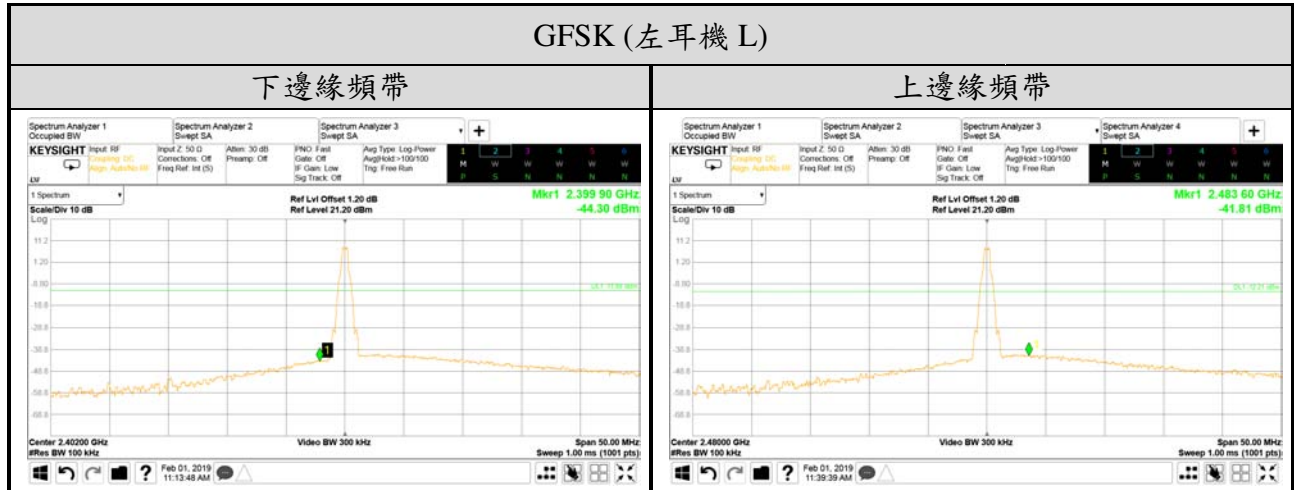
7.2. 峰值輸出功率之量測圖





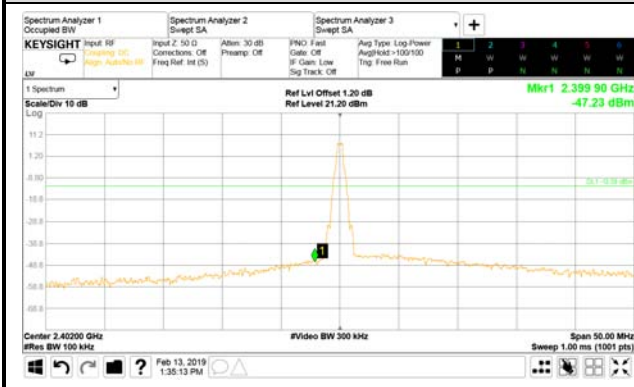
8. 頻帶邊緣之 RF 傳導發射之量測

測試日期	2019/02/01 ~ 13	環境溫/濕度	22 ~23°C/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)

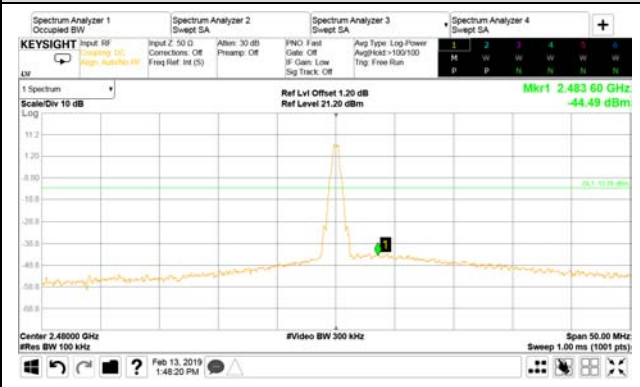


GFSK (右耳機 R)

下邊緣頻帶

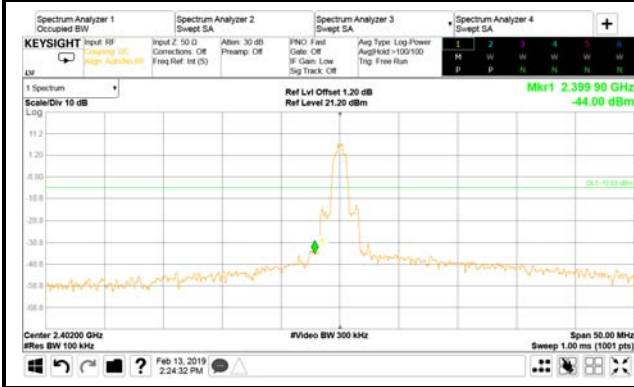


上邊緣頻帶

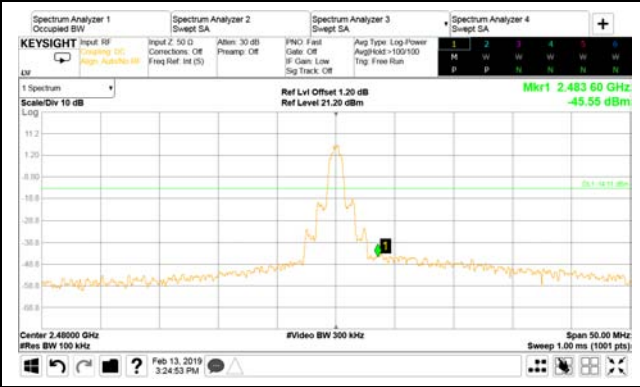


8-DPSK (右耳機 R)

下邊緣頻帶



上邊緣頻帶



9. 混附發射之 RF 傳導發射之量測

測試日期	2019/02/01 ~ 13	環境溫/濕度	22 ~23°C/53 ~ 55%
電纜損失	1.20dB	測試電壓	DC 5V (經充電盒供電)

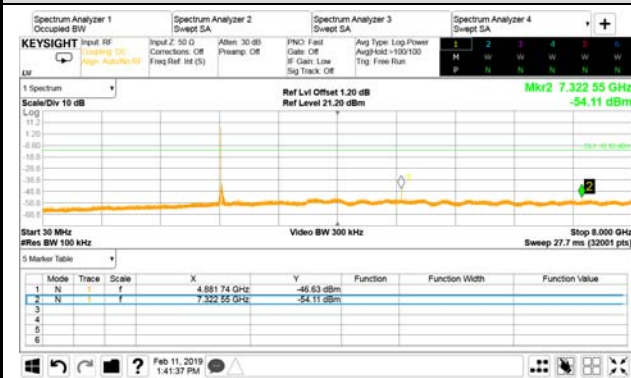




8-DPSK (左耳機 L)

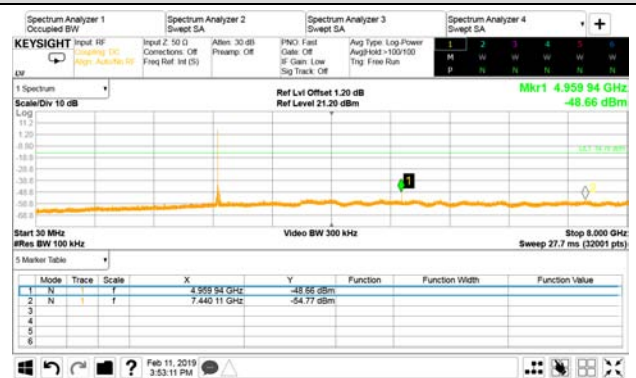
2441MHz

30MHz –8GHz



2480MHz

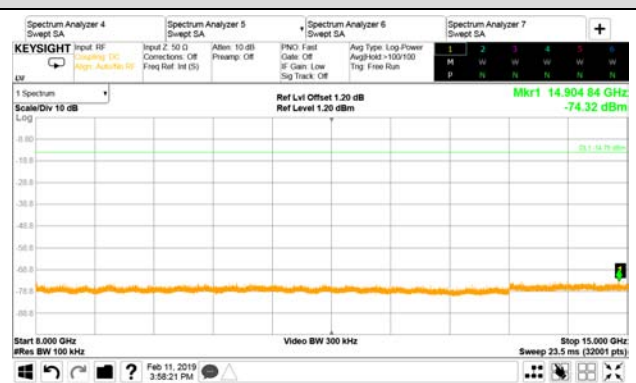
30MHz –8GHz



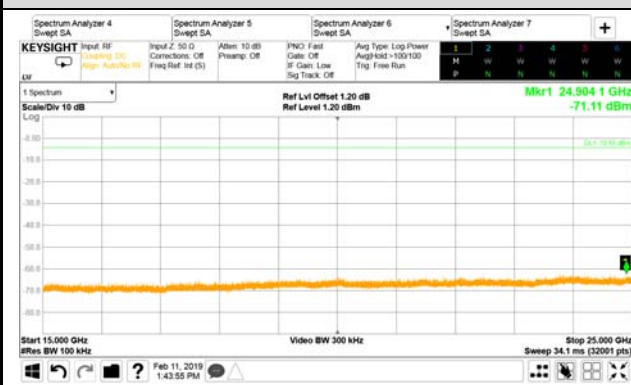
8GHz –15GHz



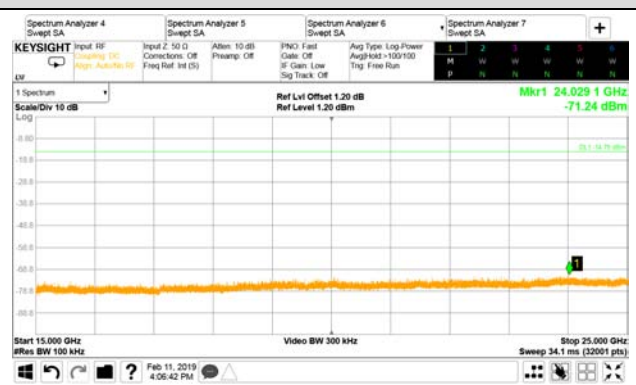
8GHz –15GHz



15GHz –25GHz



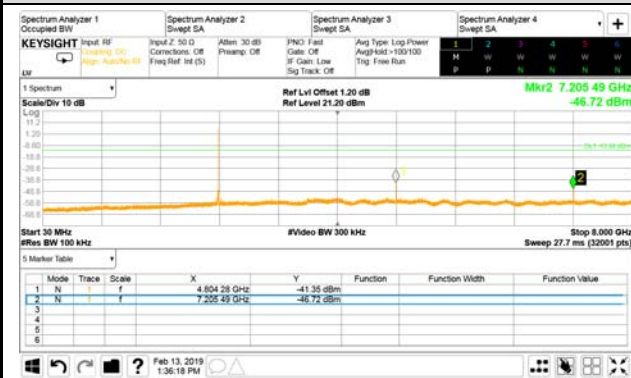
15GHz –25GHz



GFSK (右耳機 R)

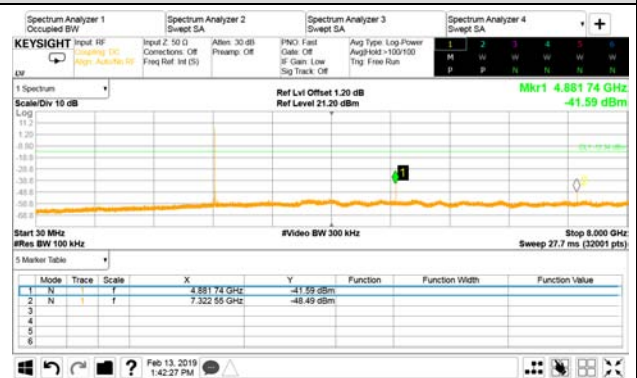
2402MHz

30MHz –8GHz



2441MHz

30MHz –8GHz



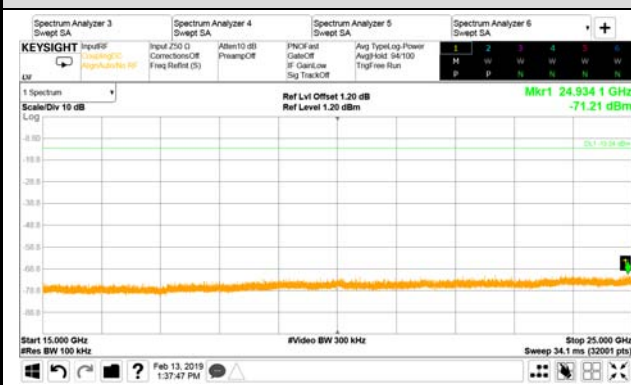
8GHz –15GHz



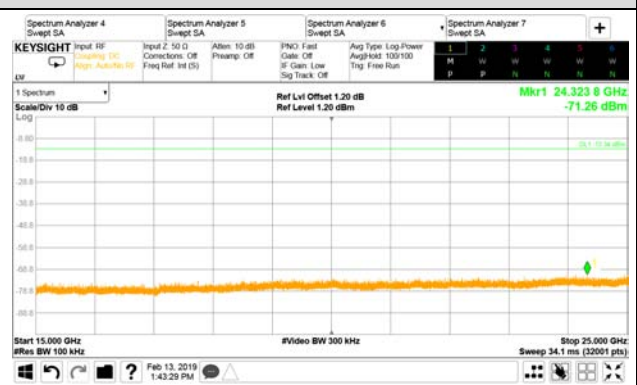
8GHz –15GHz



15GHz –25GHz



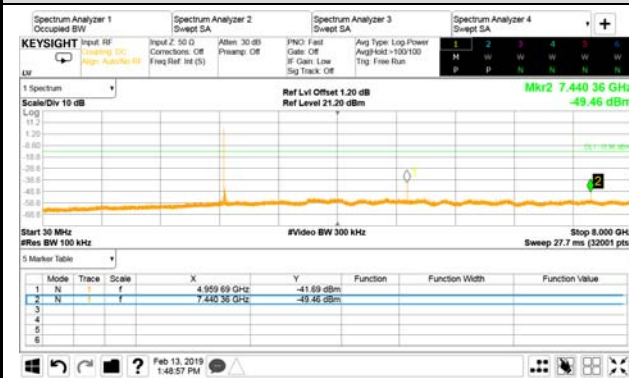
15GHz –25GHz



GFSK (右耳機 R)

2480MHz

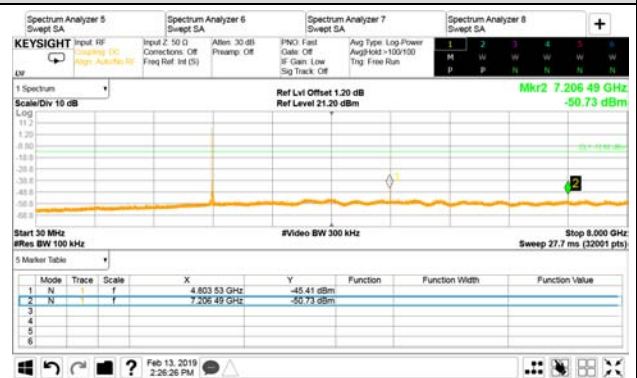
30MHz –8GHz



8-DPSK (右耳機 R)

2402MHz

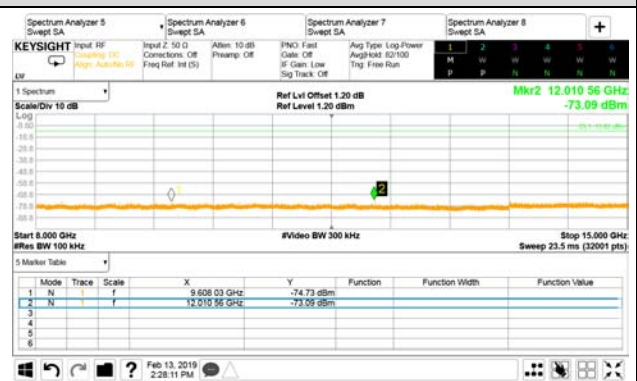
30MHz –8GHz



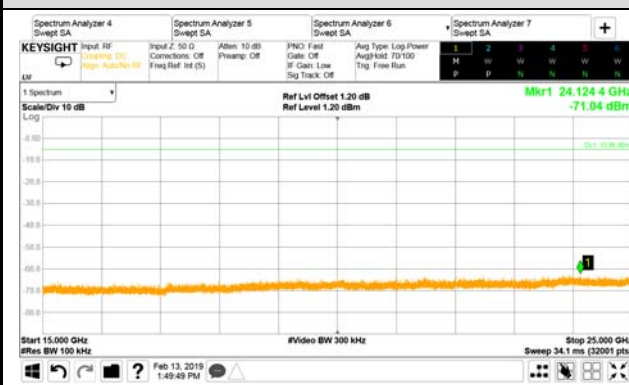
8GHz –15GHz



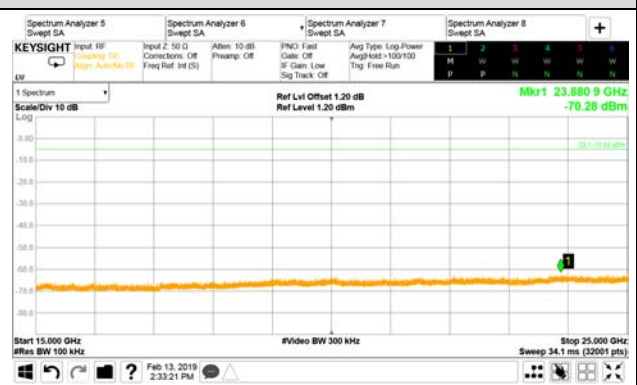
8GHz –15GHz



15GHz –25GHz



15GHz –25GHz



8-DPSK (右耳機 R)

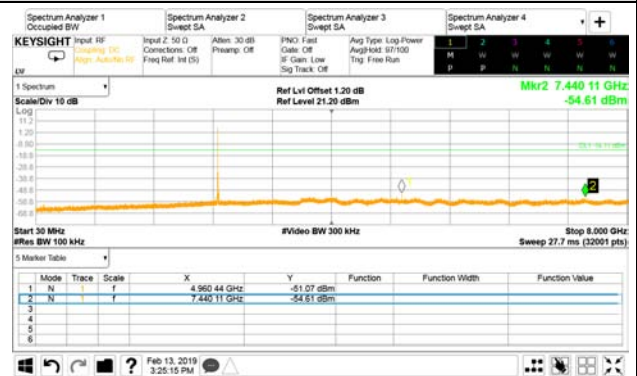
2441MHz

30MHz –8GHz



2480MHz

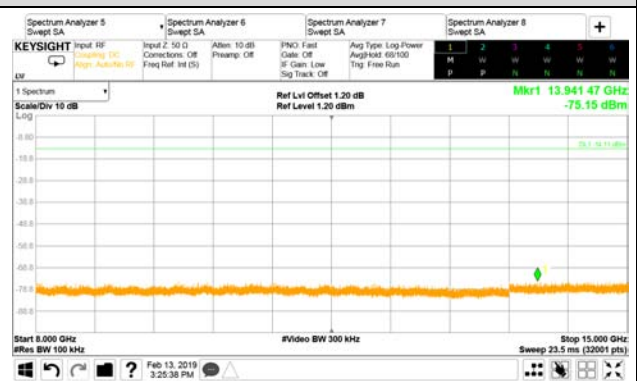
30MHz –8GHz



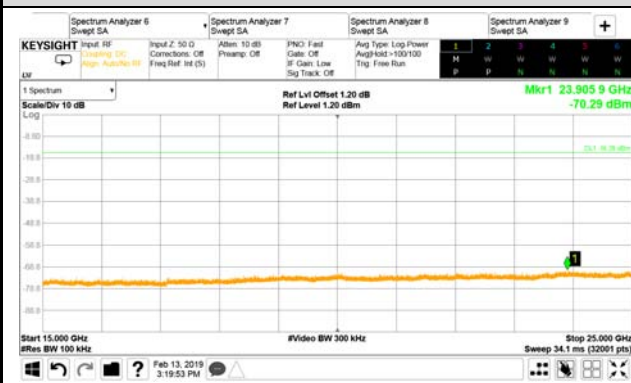
8GHz –15GHz



8GHz –15GHz



15GHz –25GHz



15GHz –25GHz

