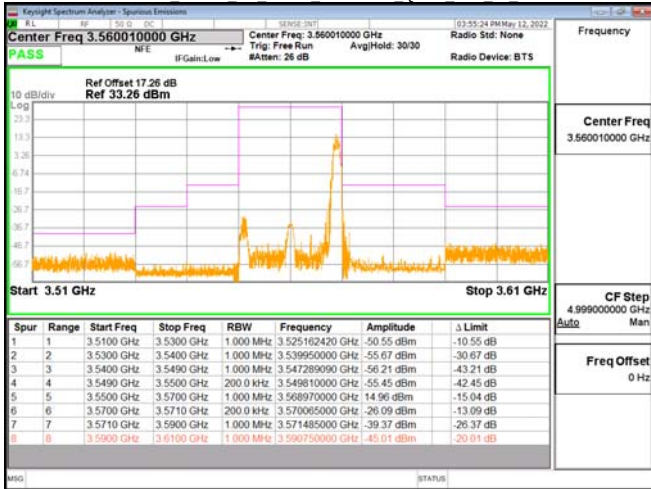
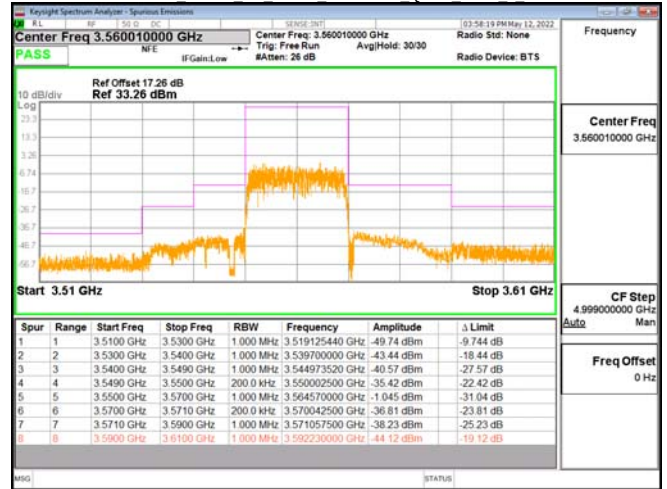


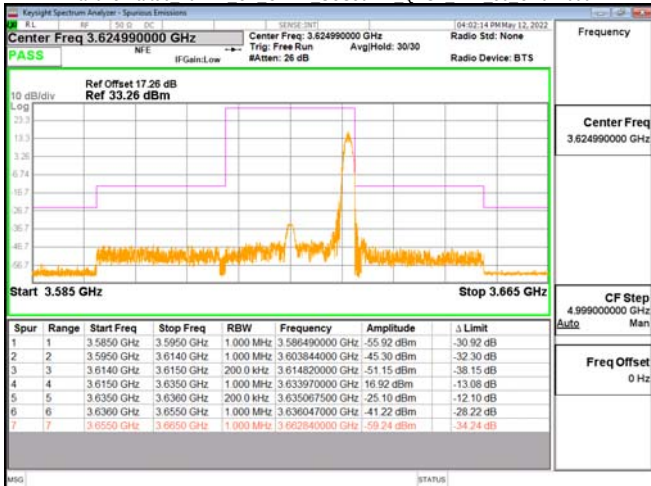
Band48-Part96 20MHz CP OFDM SCS30kHz QPSK RB1 50 CH637334



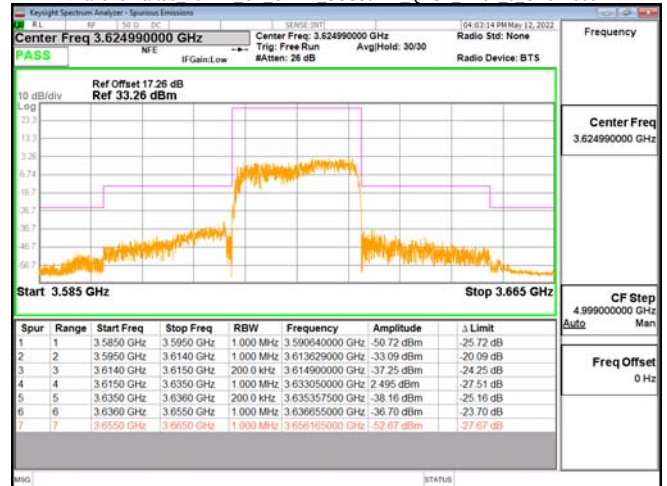
Band48-Part96 20MHz CP OFDM SCS30kHz QPSK RB51 0 CH637334



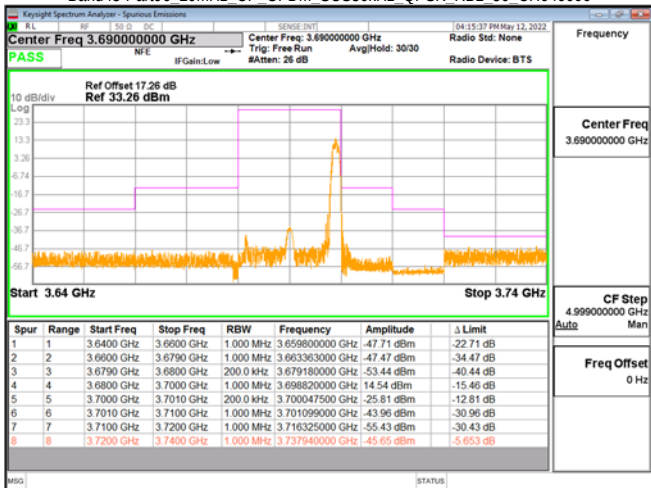
Band48-Part96 20MHz CP OFDM SCS30kHz QPSK RB1 50 CH641666



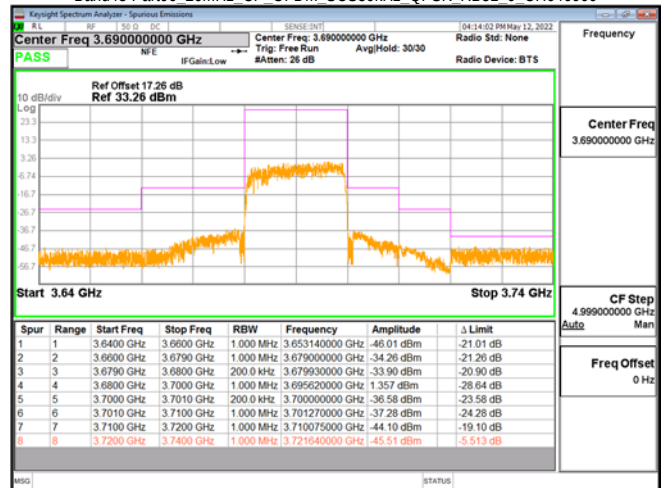
Band48-Part96 20MHz CP OFDM SCS30kHz QPSK RB51 0 CH641666



Band48-Part96 20MHz CP OFDM SCS30kHz QPSK RB1 50 CH646000



Band48-Part96 20MHz CP OFDM SCS30kHz QPSK RB51 0 CH646000

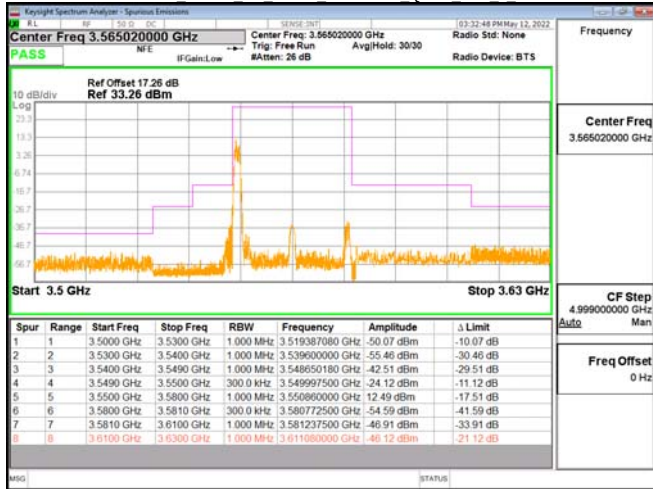


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

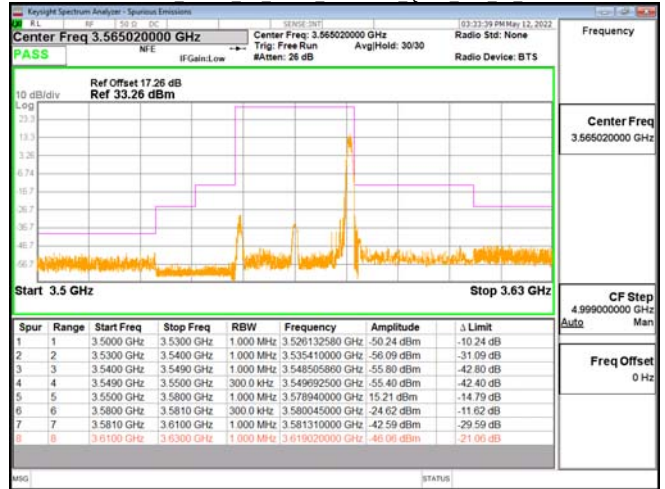
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

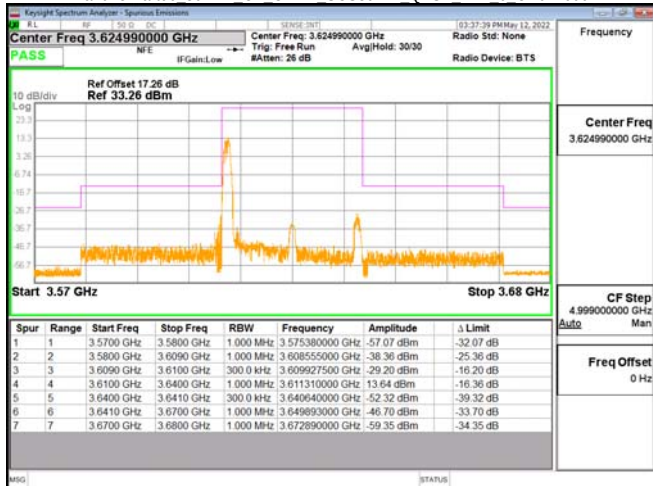
Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB1 0 CH637668



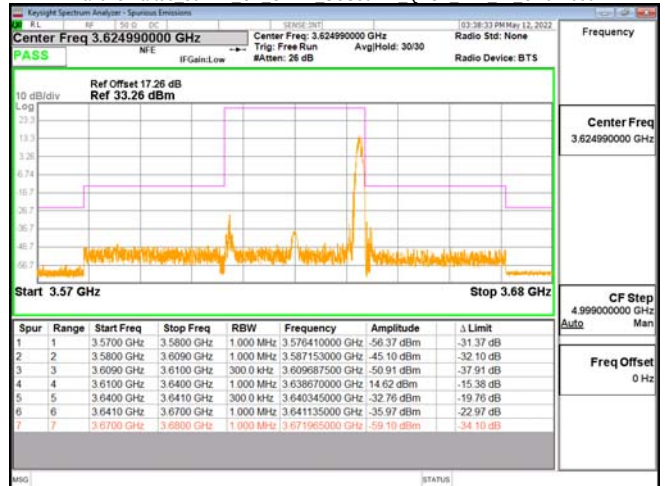
Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB1 77 CH637668



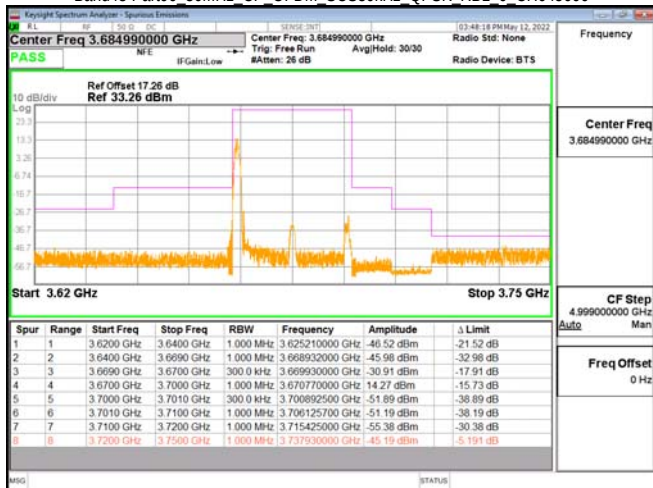
Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB1 0 CH641666



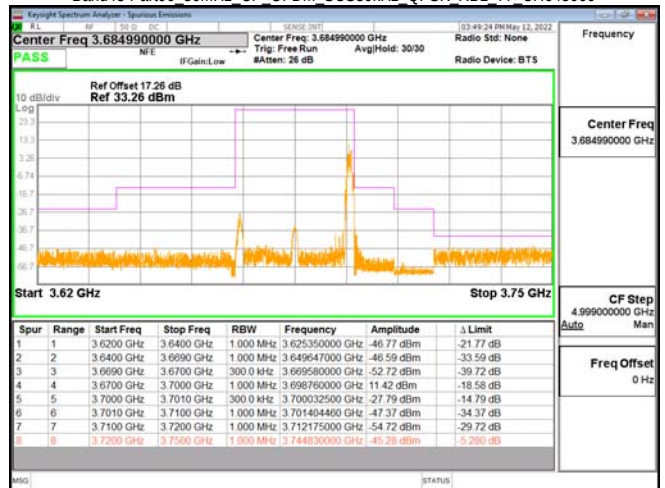
Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB1 77 CH641666



Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB1 0 CH645666



Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB1 77 CH645666

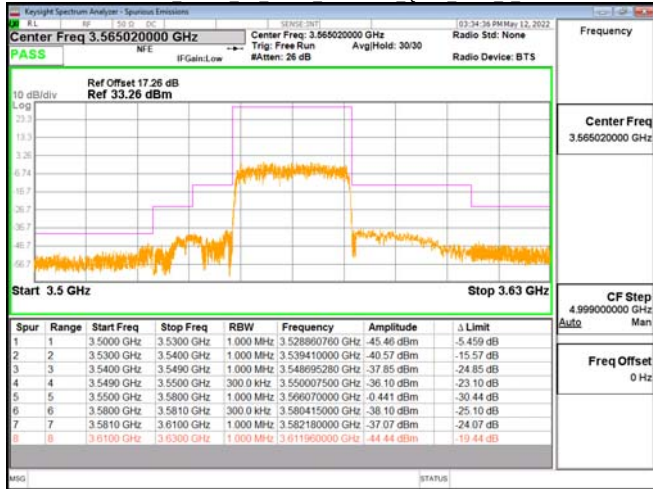


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

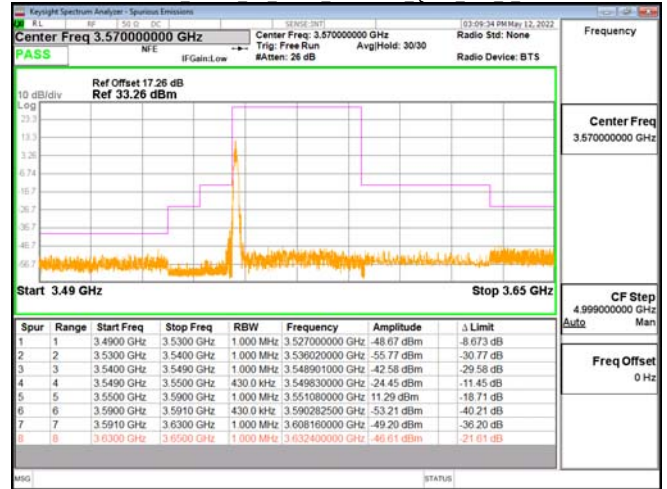
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

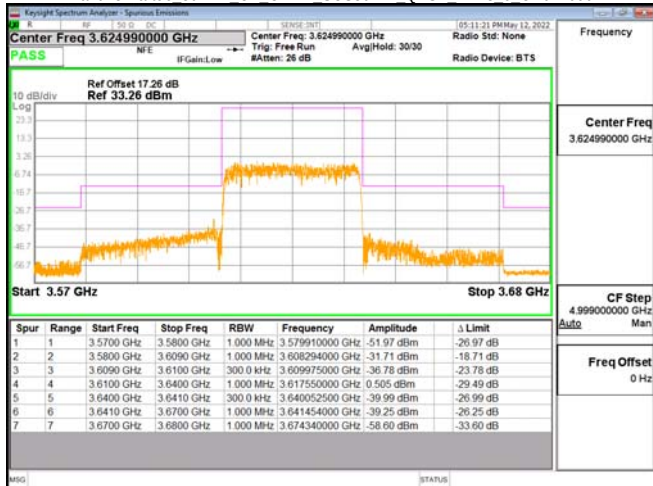
Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB78 0 CH637668



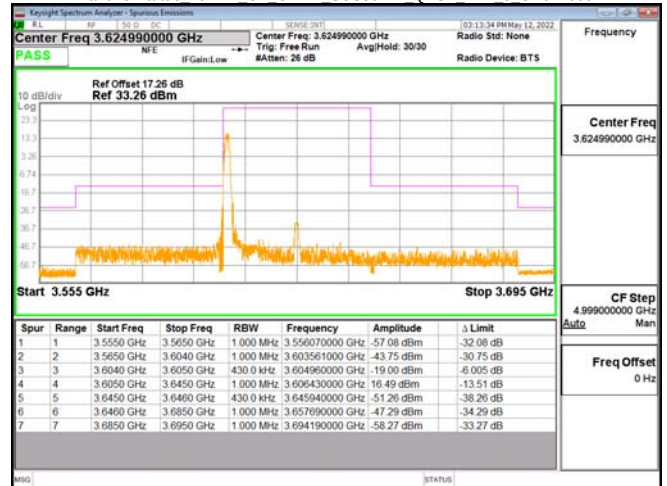
Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB1 0 CH638000



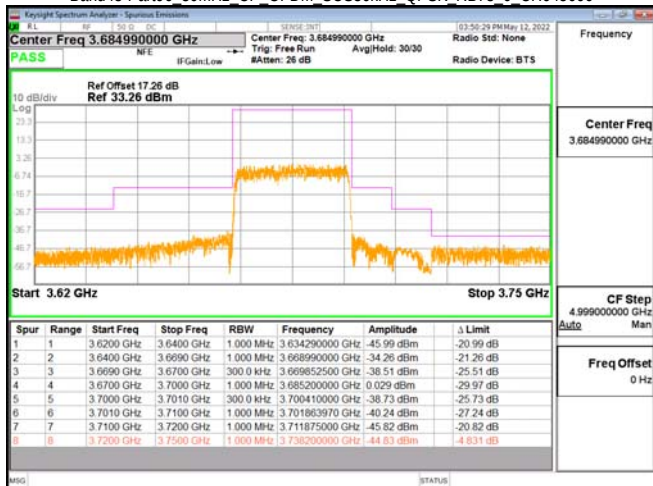
Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB78 0 CH641666



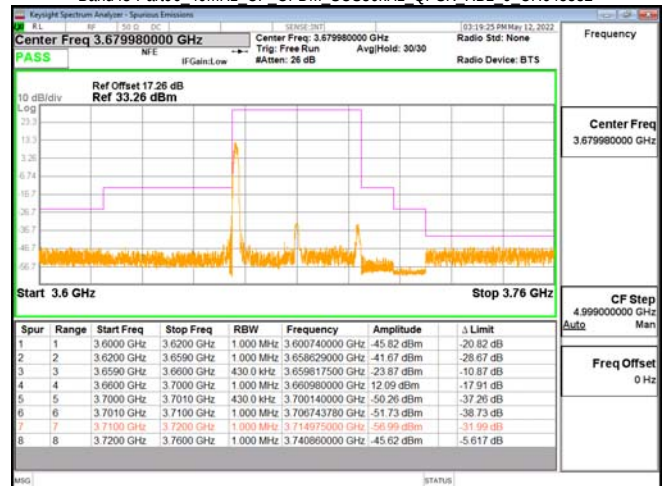
Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB1 0 CH641666



Band48-Part96 30MHz CP OFDM SCS30kHz QPSK RB78 0 CH645666



Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB1 0 CH645332

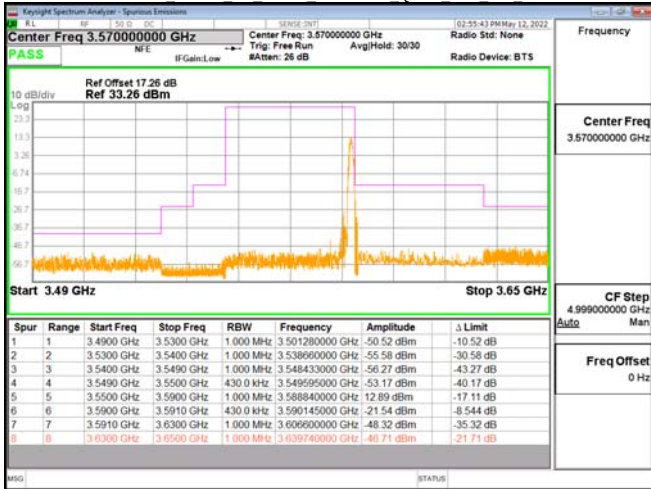


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

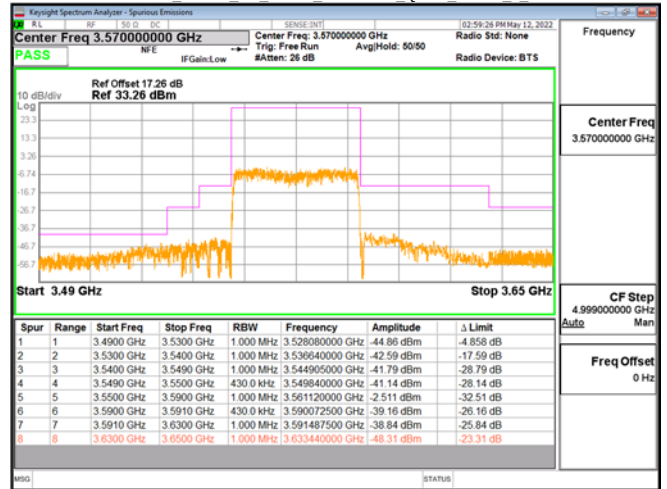
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

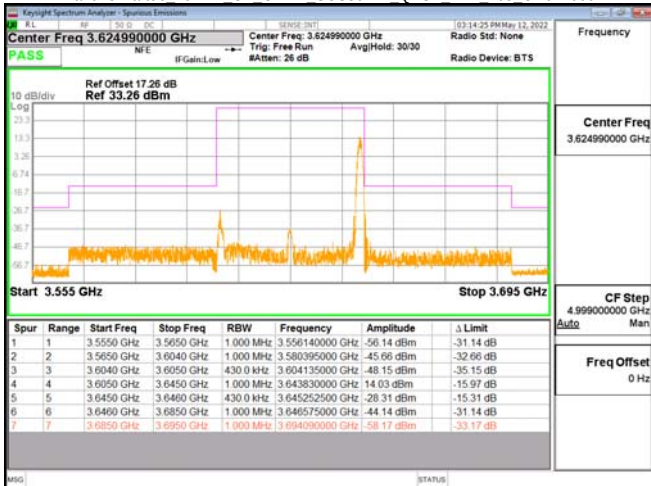
Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB1 105 CH638000



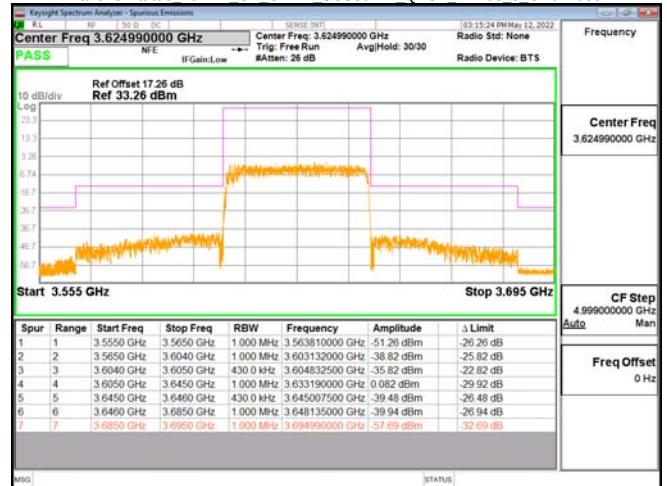
Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB106 0 CH638000



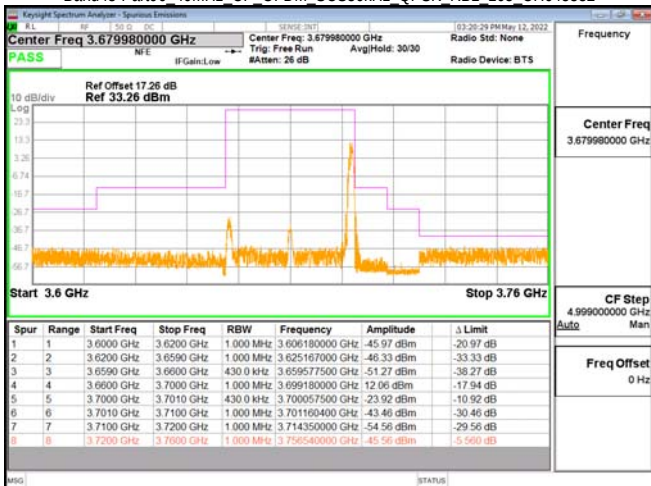
Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB1 105 CH641666



Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB106 0 CH641666



Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB1 105 CH645332



Band48-Part96 40MHz CP OFDM SCS30kHz QPSK RB106 0 CH645332



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

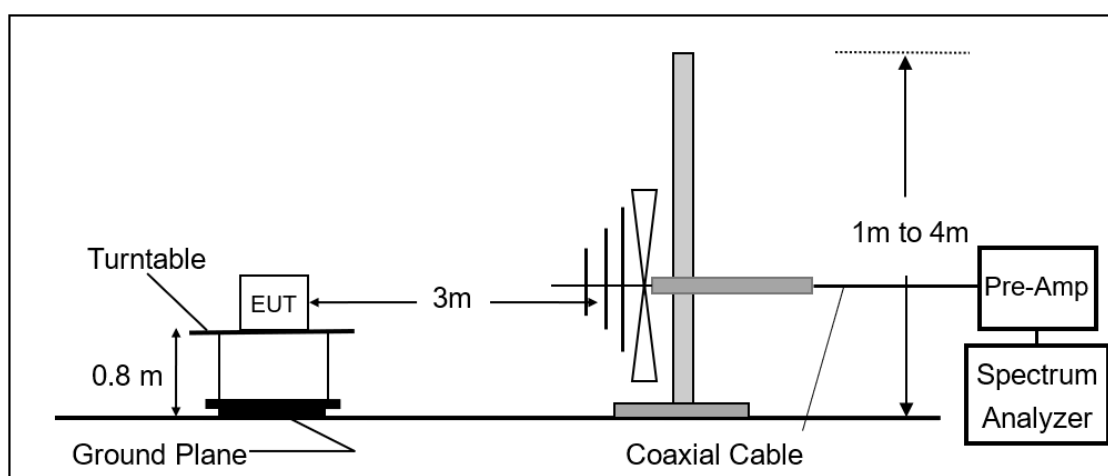
11.1 Standard Applicable

FCC Part 2.1053, Part 96.41 , C63.26 Clause 5.7

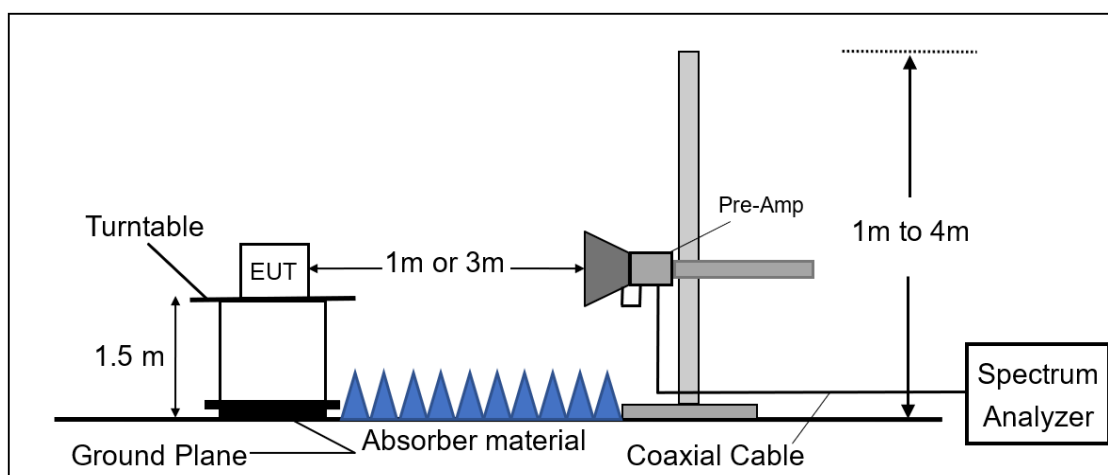
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

11.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

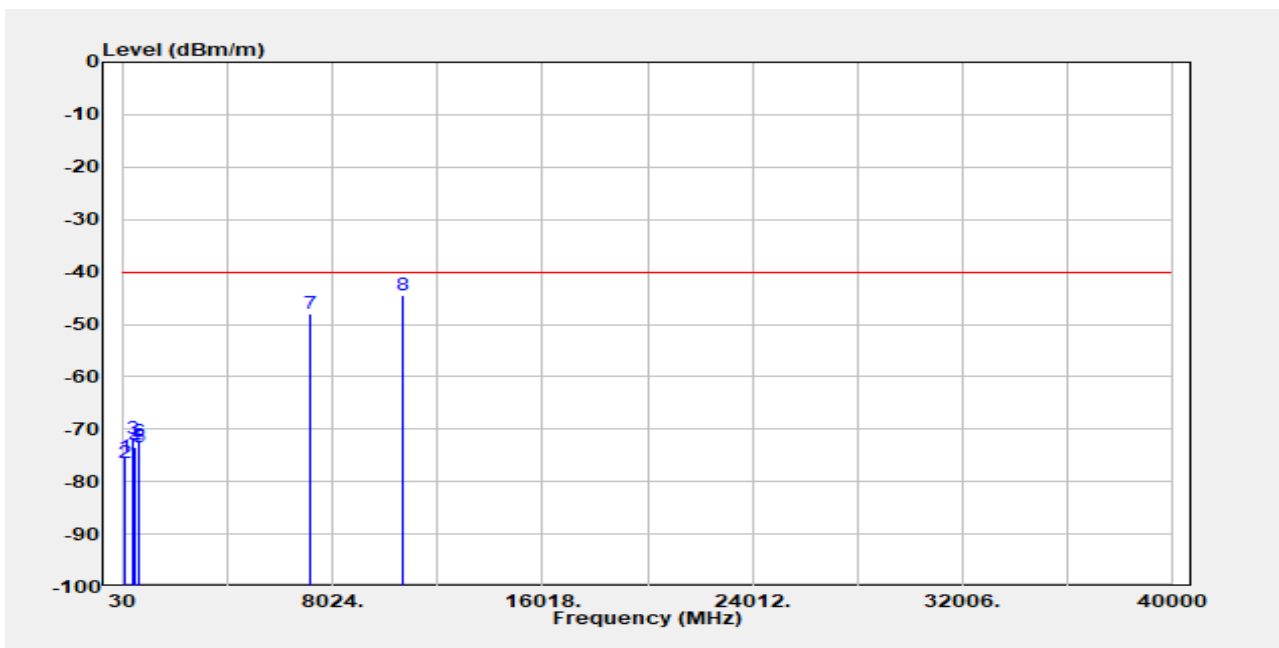
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

11.4 Measurement Result:

Report Number :ER/2022/30097
Operation Mode :n48
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :3570 MHz

Test Site :SAC 1
Test Date :2022-05-11
Temp./Humi. :20.6/71
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-75.38	-62.55	-12.13	-0.70	-40.00	-35.38
103.72	-76.38	-74.27	-1.07	-1.03	-40.00	-36.38
394.72	-71.70	-73.93	4.32	-2.08	-40.00	-31.70
480.08	-73.44	-75.21	4.21	-2.44	-40.00	-33.44
604.24	-73.32	-74.35	3.62	-2.58	-40.00	-33.32
644.98	-72.33	-73.59	3.57	-2.31	-40.00	-32.33
7140.00	-47.97	-49.10	10.92	-9.79	-40.00	-7.97
10710.00	-44.56	-44.14	11.19	-11.61	-40.00	-4.56

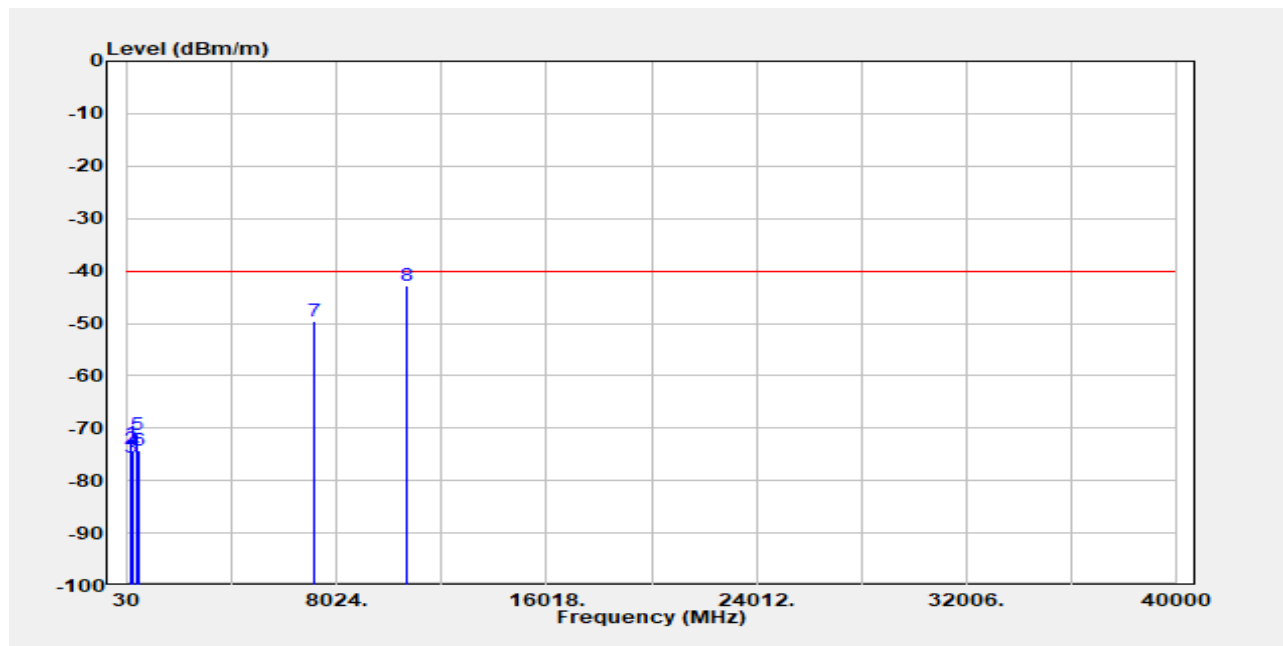
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
 Operation Mode :n48
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :3570 MHz

Test Site :SAC 1
 Test Date :2022-05-11
 Temp./Humi. :20.6/71
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
118.27	-72.84	-70.01	-1.72	-1.12	-40.00	-32.84
127.97	-74.07	-71.03	-1.88	-1.16	-40.00	-34.07
193.93	-75.73	-78.12	3.83	-1.43	-40.00	-35.73
252.13	-74.27	-77.00	4.33	-1.60	-40.00	-34.27
398.60	-71.40	-73.60	4.32	-2.12	-40.00	-31.40
480.08	-74.31	-76.07	4.21	-2.44	-40.00	-34.31
7140.00	-49.57	-50.70	10.92	-9.79	-40.00	-9.57
10710.00	-42.88	-42.47	11.19	-11.61	-40.00	-2.88

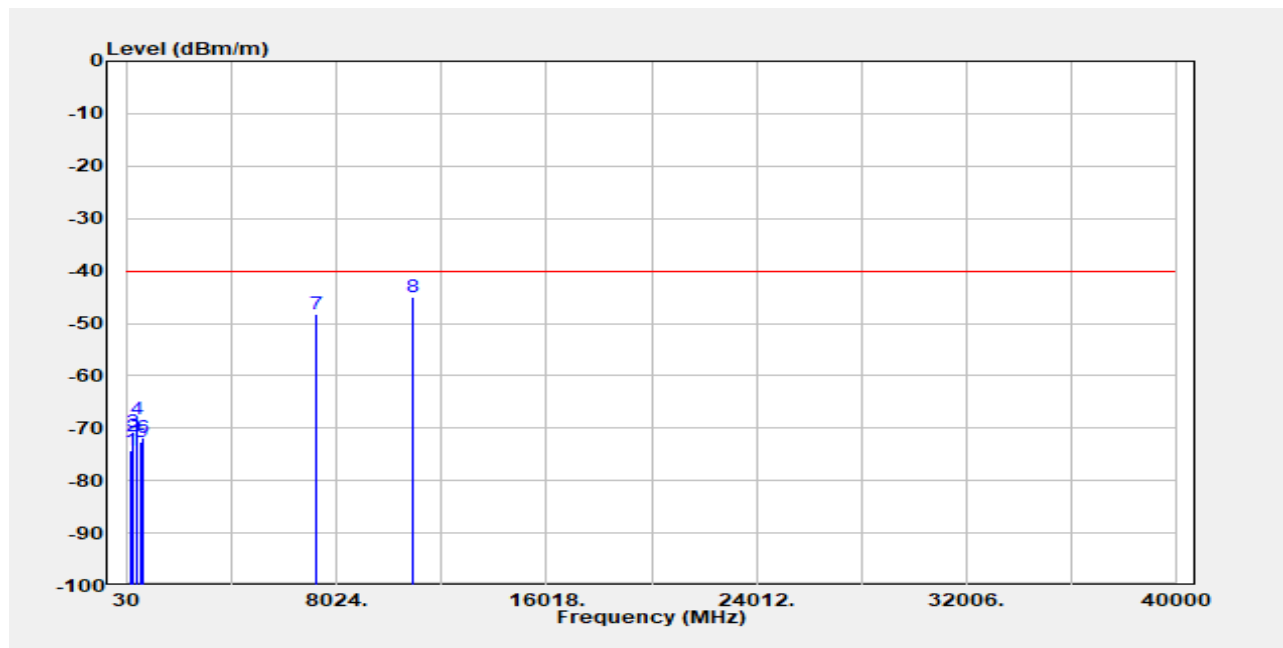
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
 Operation Mode :n48
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :3624.99 MHz

Test Site :SAC 1
 Test Date :2022-05-11
 Temp./Humi. :20.6/71
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-74.22	-71.02	-2.04	-1.16	-40.00	-34.22
196.84	-71.62	-74.25	4.06	-1.43	-40.00	-31.62
252.13	-70.75	-73.48	4.33	-1.60	-40.00	-30.75
396.66	-68.32	-70.53	4.32	-2.10	-40.00	-28.32
556.71	-72.68	-74.43	4.26	-2.51	-40.00	-32.68
600.36	-71.76	-72.76	3.64	-2.64	-40.00	-31.76
7249.98	-48.28	-49.64	10.80	-9.44	-40.00	-8.28
10874.97	-45.12	-43.81	10.95	-12.26	-40.00	-5.12

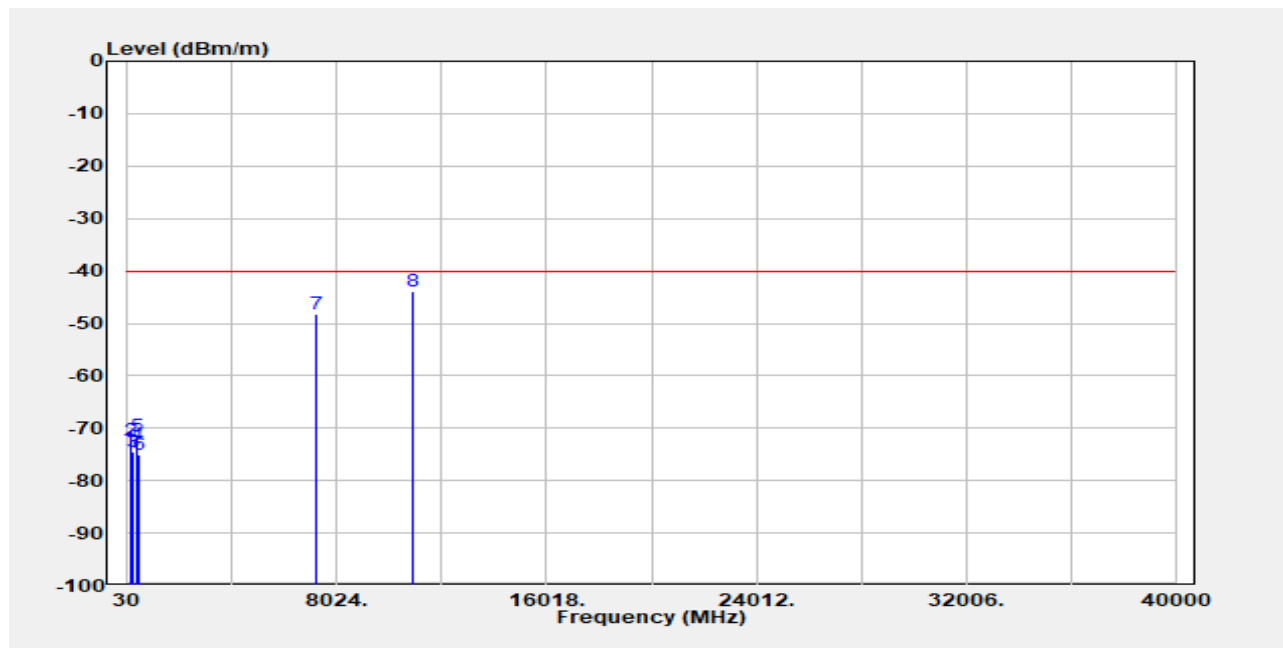
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
 Operation Mode :n48
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :3624.99 MHz

Test Site :SAC 1
 Test Date :2022-05-11
 Temp./Humi. :20.6/71
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-74.03	-71.32	-1.61	-1.10	-40.00	-34.03
156.10	-72.46	-69.89	-1.36	-1.21	-40.00	-32.46
252.13	-74.62	-77.35	4.33	-1.60	-40.00	-34.62
384.05	-73.10	-75.46	4.39	-2.02	-40.00	-33.10
398.60	-71.56	-73.76	4.32	-2.12	-40.00	-31.56
480.08	-75.15	-76.92	4.21	-2.44	-40.00	-35.15
7249.98	-48.20	-49.56	10.80	-9.44	-40.00	-8.20
10874.97	-43.90	-42.59	10.95	-12.26	-40.00	-3.90

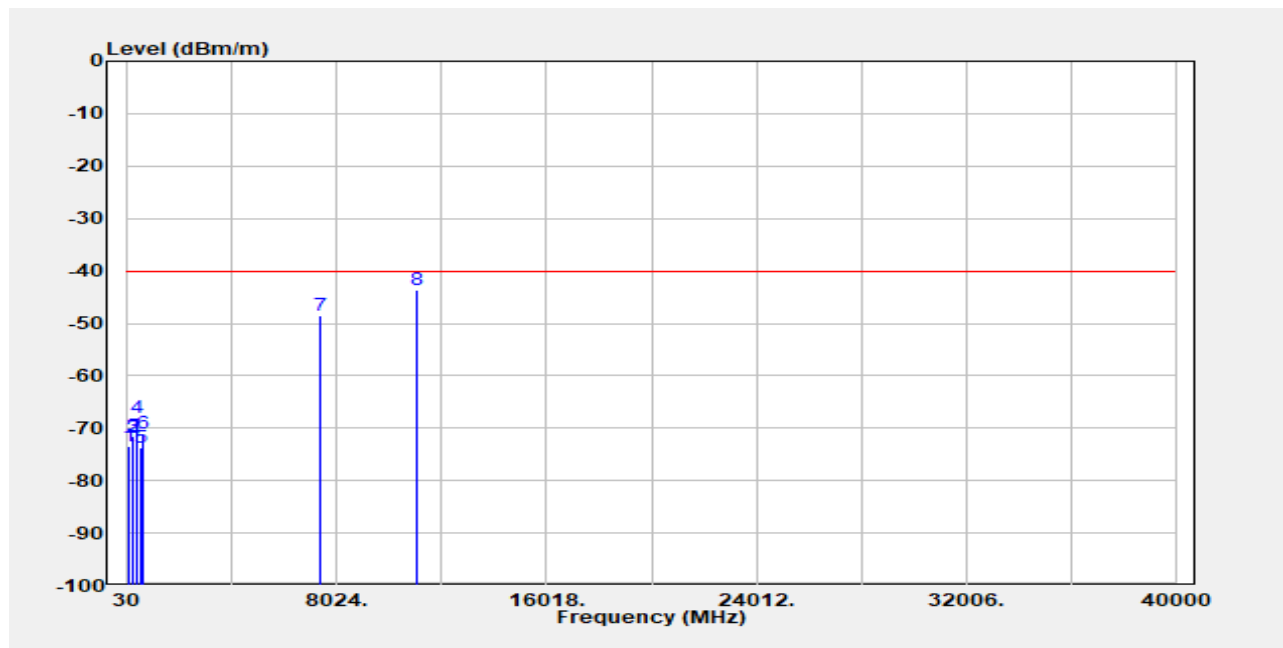
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
 Operation Mode :n48
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :3679.98 MHz

Test Site :SAC 1
 Test Date :2022-05-11
 Temp./Humi. :20.6/71
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.45	-60.62	-12.13	-0.70	-40.00	-33.45
195.87	-71.73	-74.30	4.01	-1.43	-40.00	-31.73
253.10	-71.51	-74.23	4.32	-1.60	-40.00	-31.51
395.69	-67.96	-70.18	4.31	-2.09	-40.00	-27.96
538.28	-73.62	-75.69	4.37	-2.30	-40.00	-33.62
593.57	-71.05	-72.18	3.78	-2.65	-40.00	-31.05
7359.96	-48.40	-50.26	10.92	-9.06	-40.00	-8.40
11039.94	-43.59	-42.18	11.10	-12.51	-40.00	-3.59

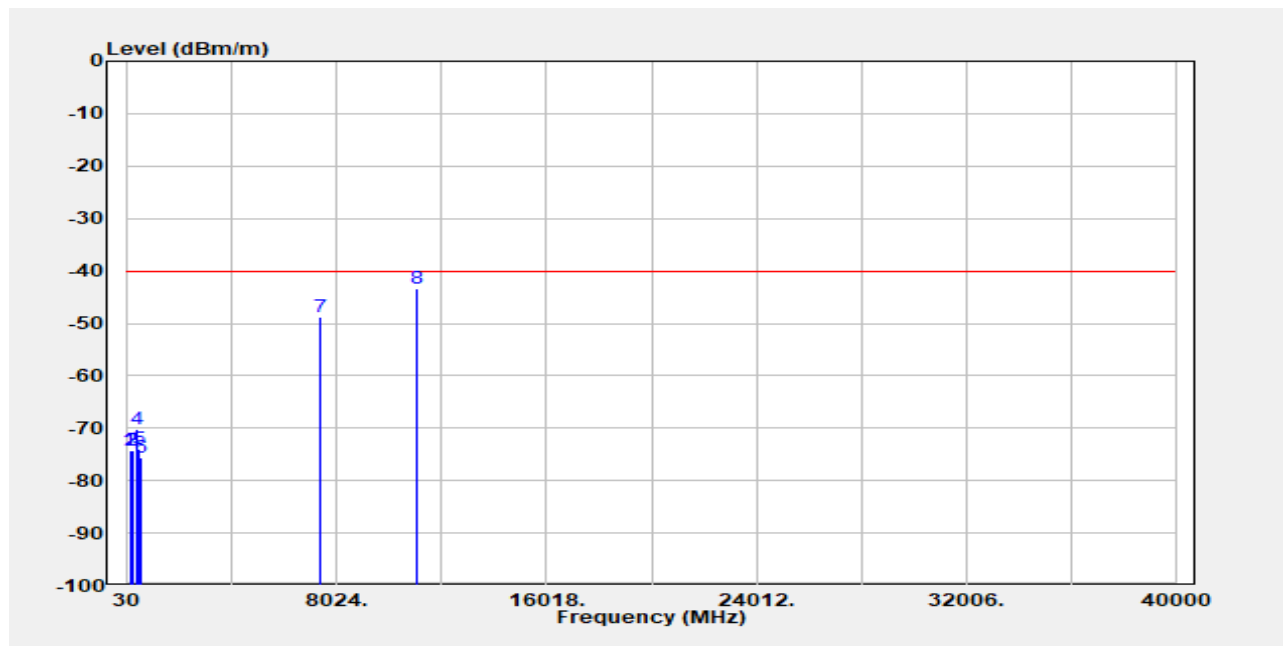
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
Operation Mode :n48
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :3679.98 MHz

Test Site :SAC 1
Test Date :2022-05-11
Temp./Humi. :20.6/71
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-74.35	-71.55	-1.71	-1.10	-40.00	-34.35
128.94	-74.31	-71.15	-2.00	-1.17	-40.00	-34.31
252.13	-74.20	-76.93	4.33	-1.60	-40.00	-34.20
395.69	-70.30	-72.52	4.31	-2.09	-40.00	-30.30
480.08	-73.91	-75.68	4.21	-2.44	-40.00	-33.91
534.40	-75.67	-77.76	4.24	-2.15	-40.00	-35.67
7359.96	-48.82	-50.68	10.92	-9.06	-40.00	-8.82
11039.94	-43.26	-41.85	11.10	-12.51	-40.00	-3.26

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

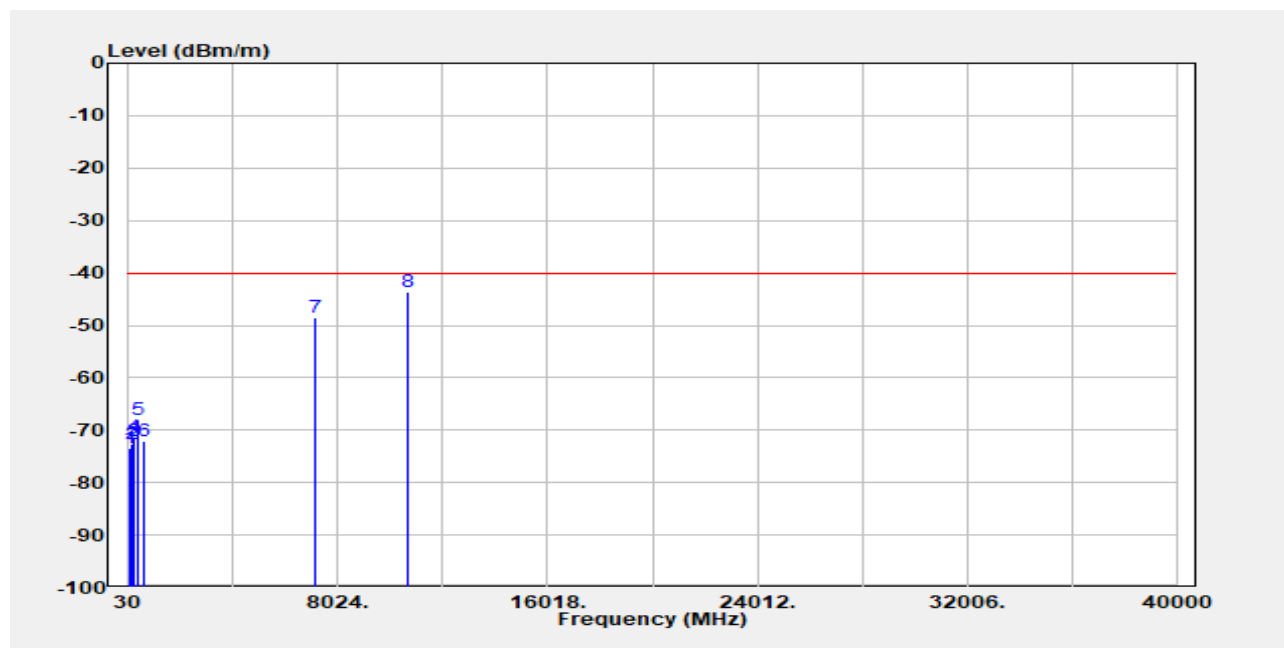
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

MIMO

Report Number :ER/2022/30097
 Operation Mode :n48
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :3570 MHz

Test Site :SAC 1
 Test Date :2022-05-12
 Temp./Humi. :25.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.48	-60.65	-12.13	-0.70	-40.00	-33.48
151.25	-72.60	-69.89	-1.55	-1.16	-40.00	-32.60
195.87	-72.15	-74.73	4.01	-1.43	-40.00	-32.15
252.13	-71.17	-73.89	4.33	-1.60	-40.00	-31.17
398.60	-67.95	-70.15	4.32	-2.12	-40.00	-27.95
643.04	-72.11	-73.40	3.54	-2.25	-40.00	-32.11
7140.00	-48.45	-49.80	11.14	-9.79	-40.00	-8.45
10710.00	-43.70	-43.19	11.09	-11.61	-40.00	-3.70

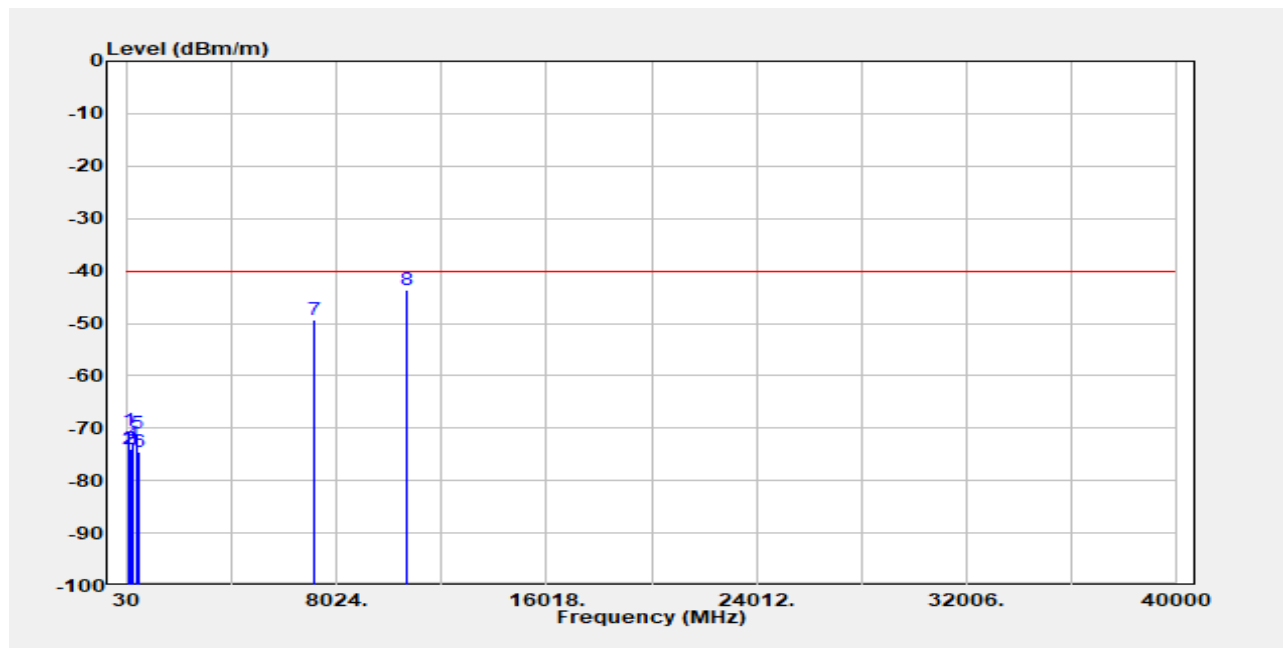
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
Operation Mode :n48
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :3570 MHz

Test Site :SAC 1
Test Date :2022-05-12
Temp./Humi. :25.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-70.33	-68.53	-0.79	-1.01	-40.00	-30.33
116.33	-73.95	-71.25	-1.61	-1.10	-40.00	-33.95
128.94	-73.97	-70.80	-2.00	-1.17	-40.00	-33.97
252.13	-73.00	-75.73	4.33	-1.60	-40.00	-33.00
394.72	-70.89	-73.13	4.32	-2.08	-40.00	-30.89
480.08	-74.51	-76.27	4.21	-2.44	-40.00	-34.51
7140.00	-49.38	-50.51	10.92	-9.79	-40.00	-9.38
10710.00	-43.75	-43.33	11.19	-11.61	-40.00	-3.75

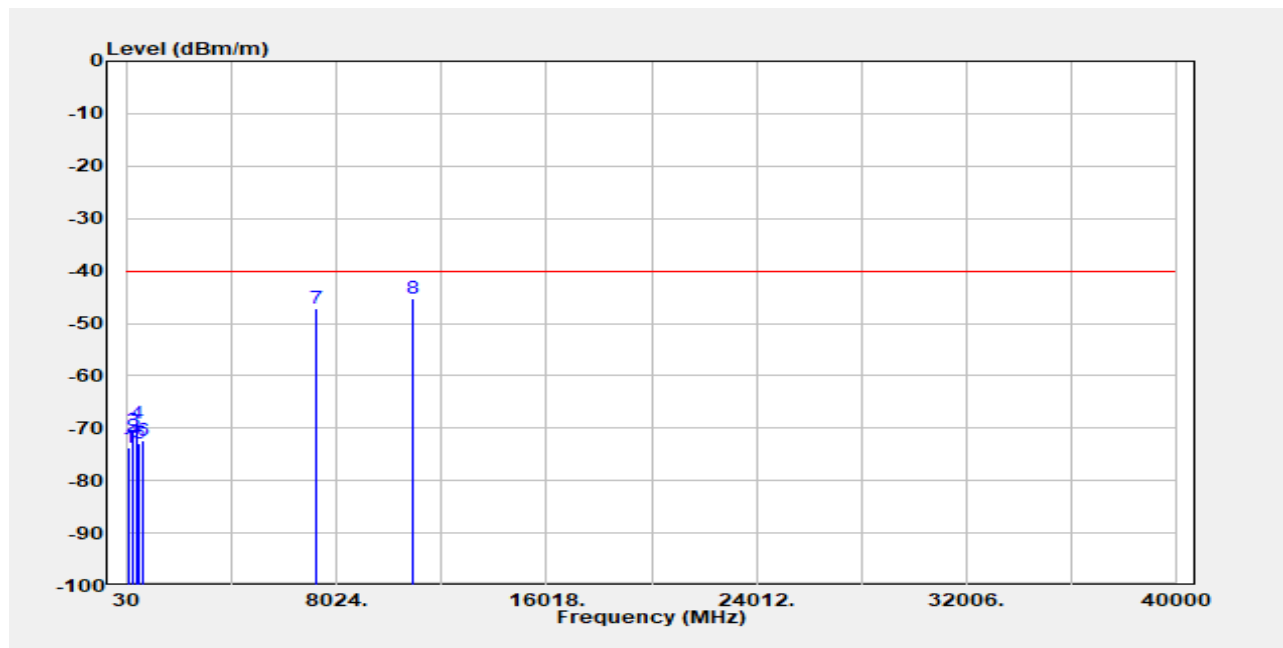
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
 Operation Mode :n48
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :3624.99 MHz

Test Site :SAC 1
 Test Date :2022-05-12
 Temp./Humi. :25.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.62	-60.79	-12.13	-0.70	-40.00	-33.62
194.90	-71.48	-73.93	3.88	-1.43	-40.00	-31.48
252.13	-70.55	-73.27	4.33	-1.60	-40.00	-30.55
395.69	-69.14	-71.35	4.31	-2.09	-40.00	-29.14
480.08	-72.91	-74.67	4.21	-2.44	-40.00	-32.91
615.88	-72.24	-73.31	3.45	-2.38	-40.00	-32.24
7249.98	-47.22	-48.59	10.80	-9.44	-40.00	-7.22
10874.97	-45.32	-44.01	10.95	-12.26	-40.00	-5.32

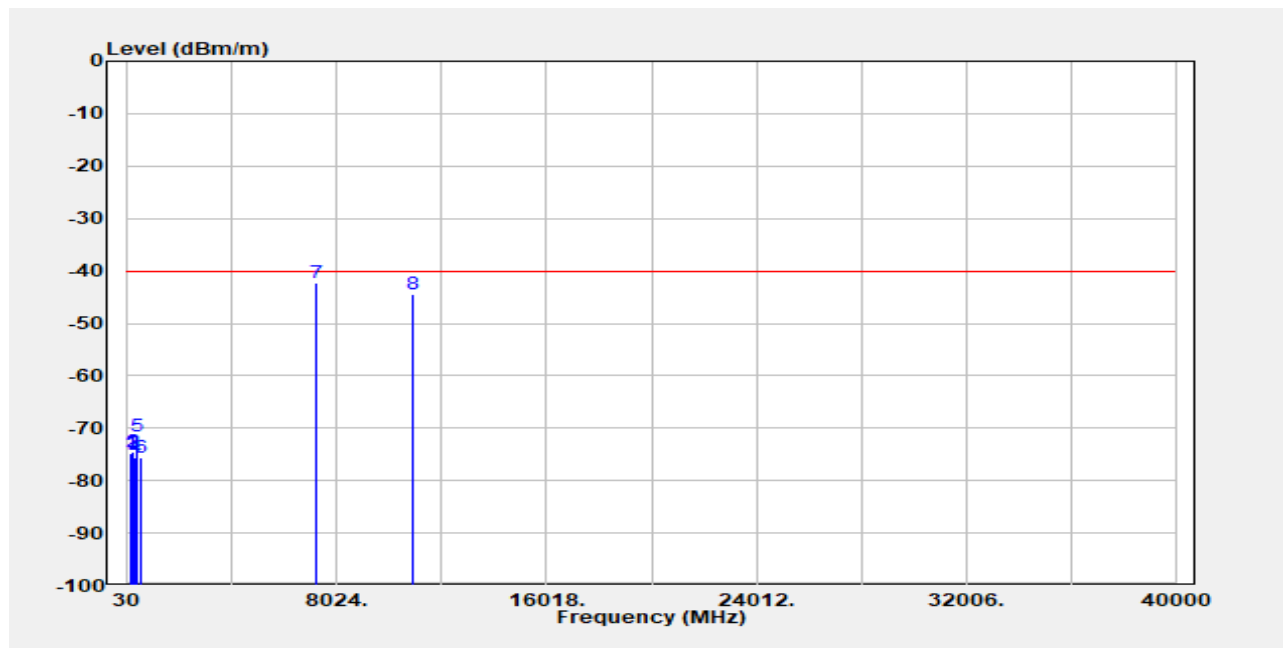
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
Operation Mode :n48
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :3624.99 MHz

Test Site :SAC 1
Test Date :2022-05-12
Temp./Humi. :25.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-74.89	-71.85	-1.88	-1.16	-40.00	-34.89
198.78	-74.65	-77.47	4.25	-1.43	-40.00	-34.65
252.13	-74.69	-77.42	4.33	-1.60	-40.00	-34.69
336.52	-75.65	-78.04	4.29	-1.90	-40.00	-35.65
396.66	-71.48	-73.69	4.32	-2.10	-40.00	-31.48
504.33	-75.55	-77.46	4.16	-2.26	-40.00	-35.55
7249.98	-42.21	-43.57	10.80	-9.44	-40.00	-2.21
10874.97	-44.33	-43.02	10.95	-12.26	-40.00	-4.33

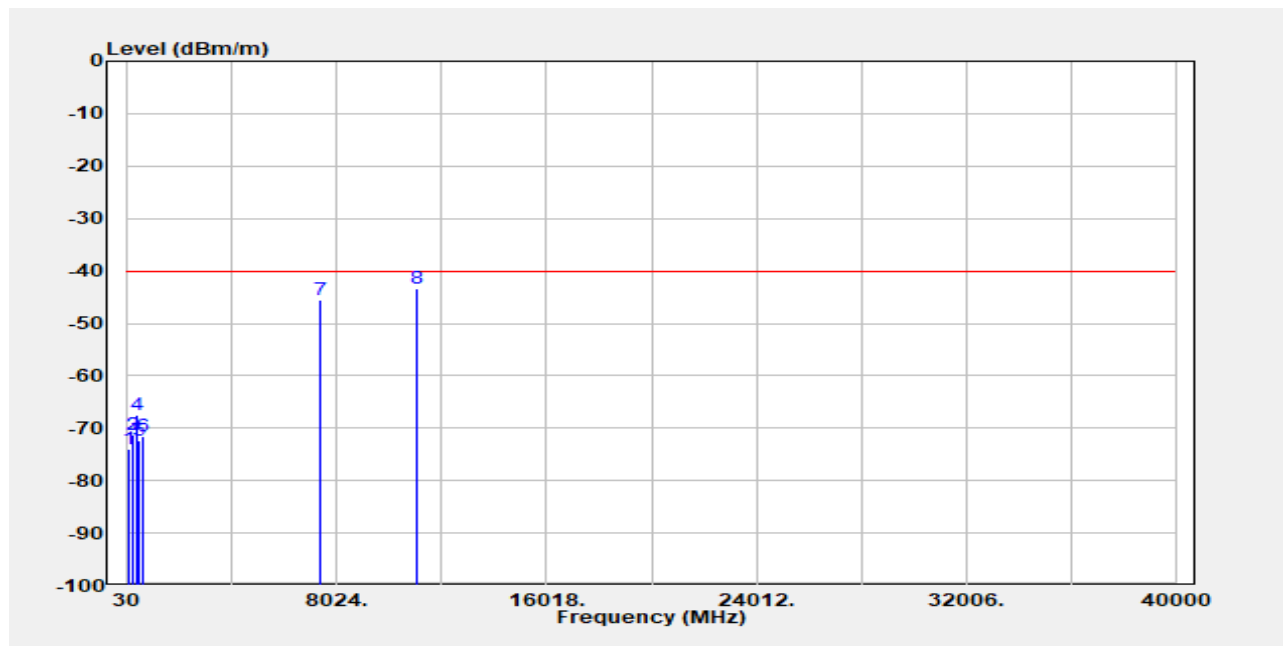
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
Operation Mode :n48
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :3679.98 MHz

Test Site :SAC 1
Test Date :2022-05-12
Temp./Humi. :25.7/70
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.93	-61.10	-12.13	-0.70	-40.00	-33.93
195.87	-71.34	-73.91	4.01	-1.43	-40.00	-31.34
252.13	-71.23	-73.96	4.33	-1.60	-40.00	-31.23
396.66	-67.53	-69.74	4.32	-2.10	-40.00	-27.53
480.08	-72.29	-74.05	4.21	-2.44	-40.00	-32.29
607.15	-71.59	-72.61	3.56	-2.54	-40.00	-31.59
7359.96	-45.45	-47.31	10.92	-9.06	-40.00	-5.45
11039.94	-43.42	-42.01	11.10	-12.51	-40.00	-3.42

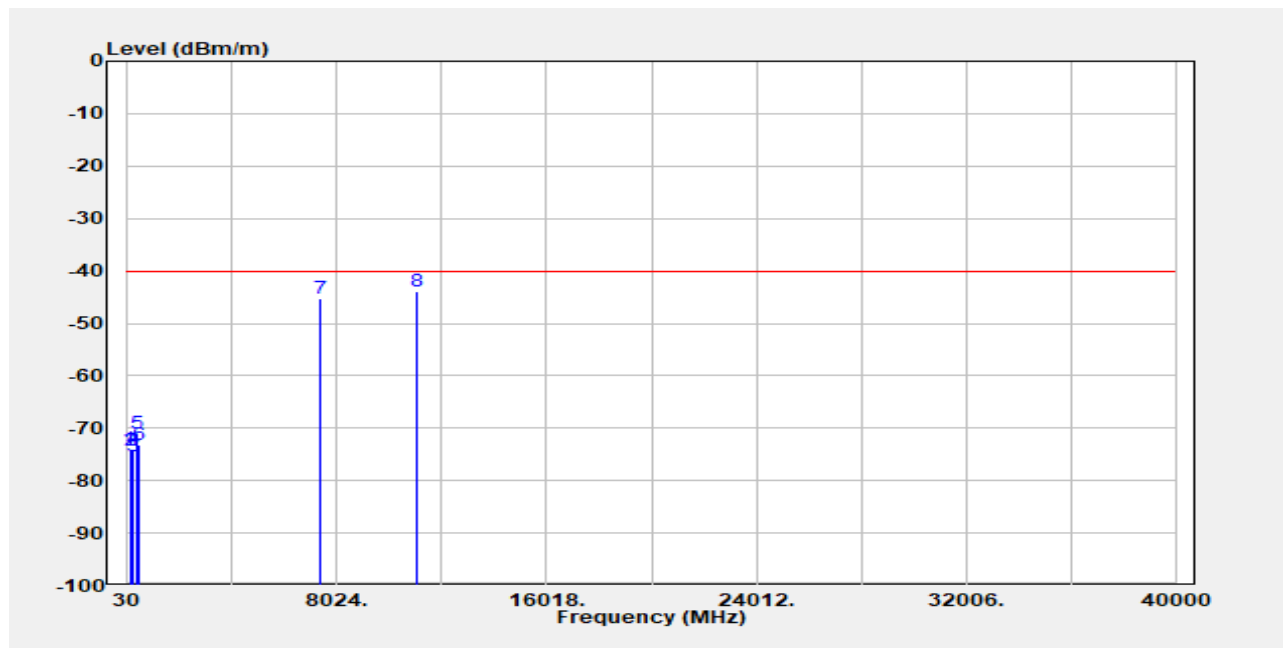
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Report Number :ER/2022/30097
Operation Mode :n48
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :3679.98 MHz

Test Site :SAC 1
Test Date :2022-05-12
Temp./Humi. :25.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-74.08	-71.37	-1.61	-1.10	-40.00	-34.08
127.00	-74.38	-71.18	-2.04	-1.16	-40.00	-34.38
195.87	-75.44	-78.01	4.01	-1.43	-40.00	-35.44
253.10	-73.92	-76.64	4.32	-1.60	-40.00	-33.92
396.66	-70.92	-73.13	4.32	-2.10	-40.00	-30.92
480.08	-73.27	-75.03	4.21	-2.44	-40.00	-33.27
7359.96	-45.38	-47.24	10.92	-9.06	-40.00	-5.38
11039.94	-43.97	-42.55	11.10	-12.51	-40.00	-3.97

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

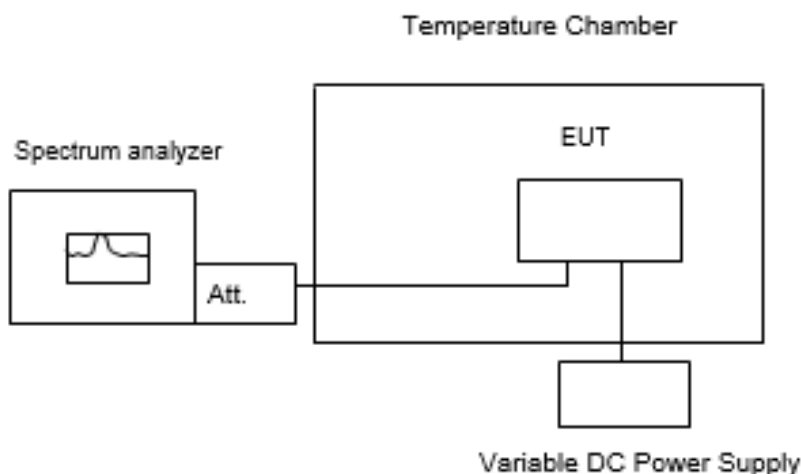
12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicabl

FCC §2.1055(a)

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

12.4 Measurement Result

5G NR BAND n48 Part96				
Reference Freq.:			Modulation.:	CP-OFDM QPSK
SCS.:	30	kHz	Bandwidth:	40MHz
CH	641666		Freqency(MHz):	3624.99
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
138	25	3624.989995	-5	9062
120	25	3624.990007	7	9062
102	25	3624.989997	-3	9062
62 (End Point)	25	3624.990010	10	9062
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
120	-30	3624.990013	13	9062
120	-20	3624.989988	-12	9062
120	-10	3624.989991	-9	9062
120	0	3624.989988	-12	9062
120	10	3624.990004	4	9062
120	20	3624.990011	11	9062
120	30	3624.990014	14	9062
120	40	3624.989990	-10	9062
120	50	3624.990007	7	9062

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

MIMO

5G NR BAND n48 Part96				
Reference Freq.:			Modulation.:	CP-OFDM QPSK
SCS.:	30	kHz	Bandwidth:	40MHz
CH	641666		Freqency(MHz):	3624.99
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
138	25	3624.989992	-8	9062
120	25	3624.989997	-3	9062
102	25	3624.990015	15	9062
62 (End Point)	25	3624.990008	8	9062
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
120	-30	3624.989999	-1	9062
120	-20	3624.990004	4	9062
120	-10	3624.989998	-2	9062
120	0	3624.990015	15	9062
120	10	3624.990005	5	9062
120	20	3624.989989	-11	9062
120	30	3624.990015	15	9062
120	40	3624.990003	3	9062
120	50	3624.990010	10	9062

Note: The power is rated 120V

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

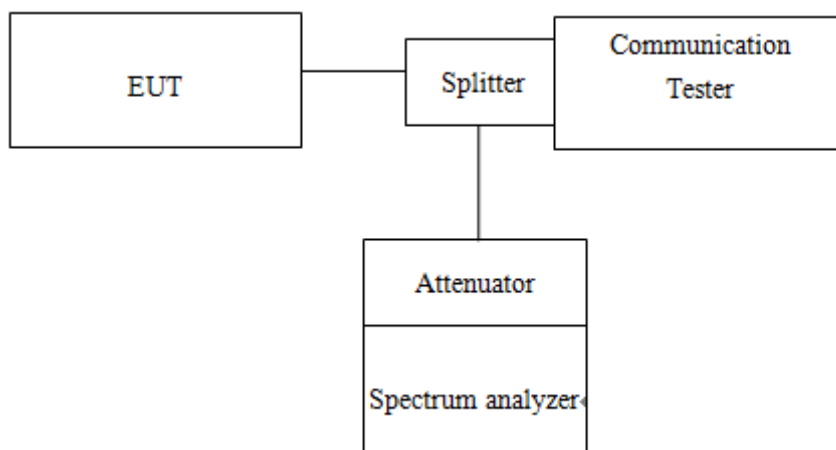
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

13.2 Test SET-UP



13.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4 Measurement Result

5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 10MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3555.00	637000	10.14	13	3560.01	637334	9.55	13
3624.99	641666	10.69	13	3624.99	641666	9.57	13
3694.98	646332	10.59	13	3690.00	646000	10.36	13
5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 30MHz				Channel bandwidth: 40MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3565.02	637668	9.58	13	3570.00	638000	10.60	13
3624.99	641666	9.93	13	3624.99	641666	9.93	13
3684.99	645666	10.06	13	3679.98	645332	10.14	13

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

MIMO

5G NR BAND n48 Part96(3550 to 3700 MHz)			
DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3555.00	637000	11.31	13
3624.99	641666	12.07	13
3694.98	646332	11.54	13

5G NR BAND n48 Part96(3550 to 3700 MHz)			
DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3560.01	637334	10.75	13
3624.99	641666	12.81	13
3690.00	646000	11.91	13

5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 30MHz		Channel bandwidth: 40MHz					
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3565.02	637668	12.52	13	3570.00	638000	12.03	13
3624.99	641666	11.34	13	3624.99	641666	11.81	13
3684.99	645666	12.04	13	3679.98	645332	11.58	13

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

5G NR BAND n48 Part96(3550 to 3700 MHz)			
DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3555.00	637000	11.94	13
3624.99	641666	12.17	13
3694.98	646332	11.50	13

5G NR BAND n48 Part96(3550 to 3700 MHz)			
DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3560.01	637334	11.20	13
3624.99	641666	12.27	13
3690.00	646000	11.94	13

5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 30MHz				Channel bandwidth: 40MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3565.02	637668	12.14	13	3570.00	638000	12.38	13
3624.99	641666	11.50	13	3624.99	641666	11.30	13
3684.99	645666	12.40	13	3679.98	645332	11.99	13

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Band48-Part96 10MHz DFT s OFDM SCS30kHz 256QAM RB24 0 CH637000



Band48-Part96 20MHz DFT s OFDM SCS30kHz 256QAM RB50 0 CH637334



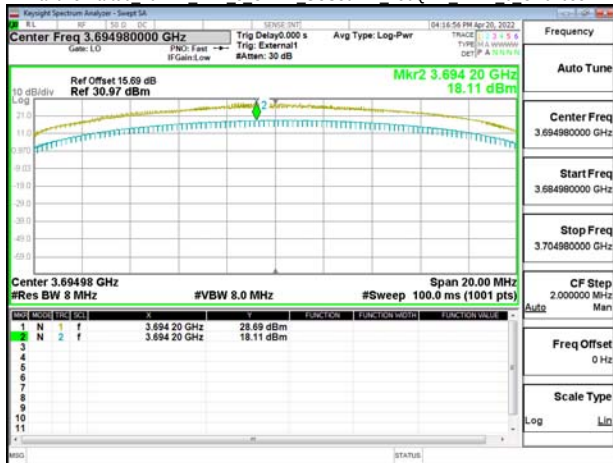
Band48-Part96 10MHz DFT s OFDM SCS30kHz 256QAM RB24 0 CH641666



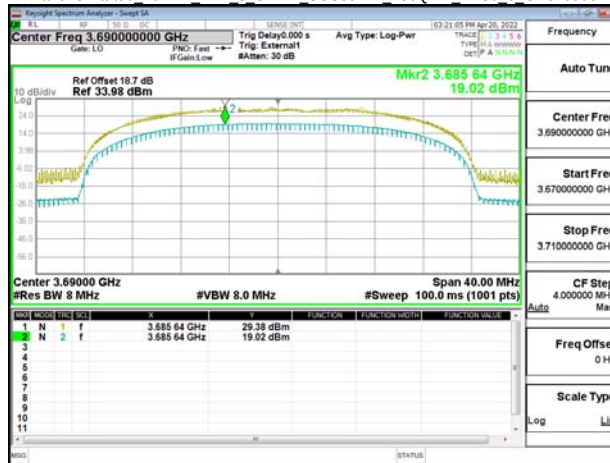
Band48-Part96 20MHz DFT s OFDM SCS30kHz 256QAM RB50 0 CH641666



Band48-Part96 10MHz DFT s OFDM SCS30kHz 256QAM RB24 0 CH646332



Band48-Part96 20MHz DFT s OFDM SCS30kHz 256QAM RB50 0 CH646000

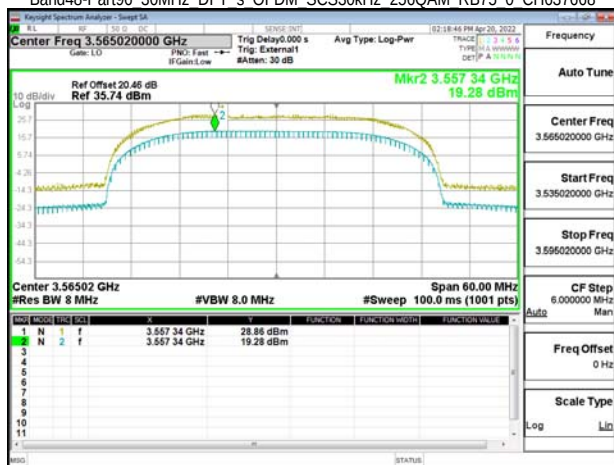


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

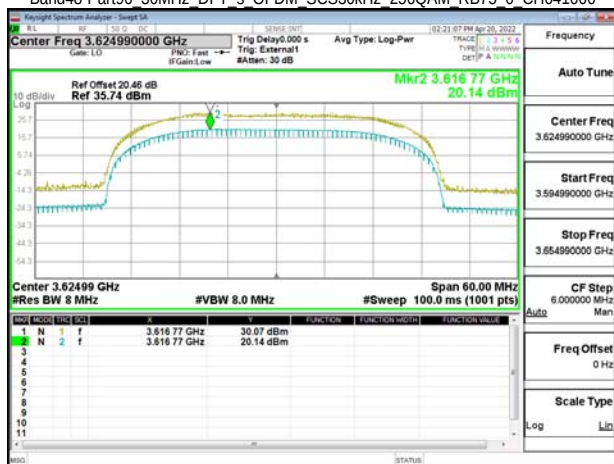
Band48-Part96 30MHz DFT s OFDM SCS30kHz 256QAM RB75 0 CH637668



Band48-Part96 40MHz DFT s OFDM SCS30kHz 256QAM RB100 0 CH638000



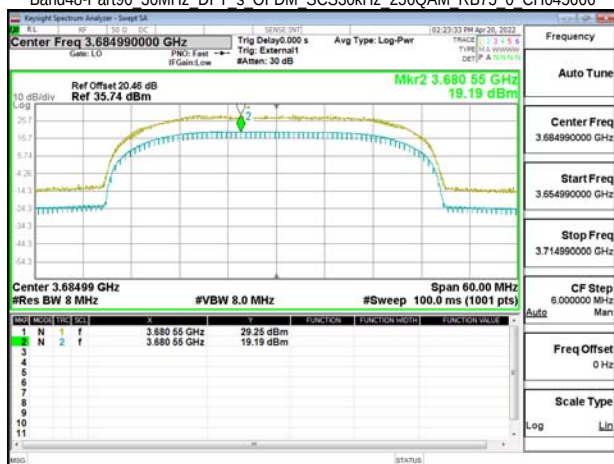
Band48-Part96 30MHz DFT s OFDM SCS30kHz 256QAM RB75 0 CH641666



Band48-Part96 40MHz DFT s OFDM SCS30kHz 256QAM RB100 0 CH641666



Band48-Part96 30MHz DFT s OFDM SCS30kHz 256QAM RB75 0 CH645666



Band48-Part96 40MHz DFT s OFDM SCS30kHz 256QAM RB100 0 CH645332

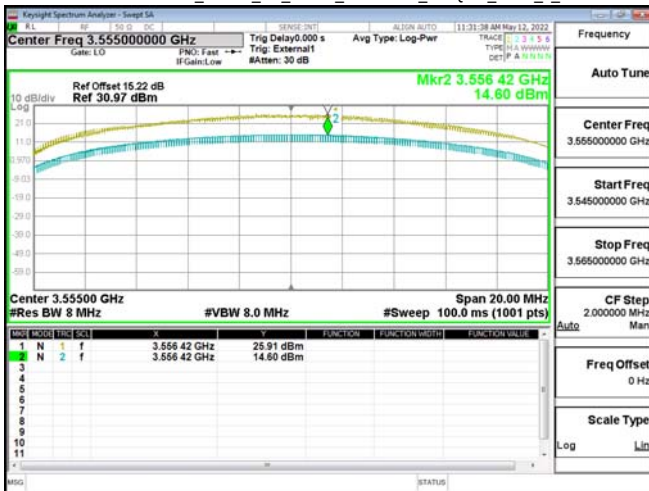


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

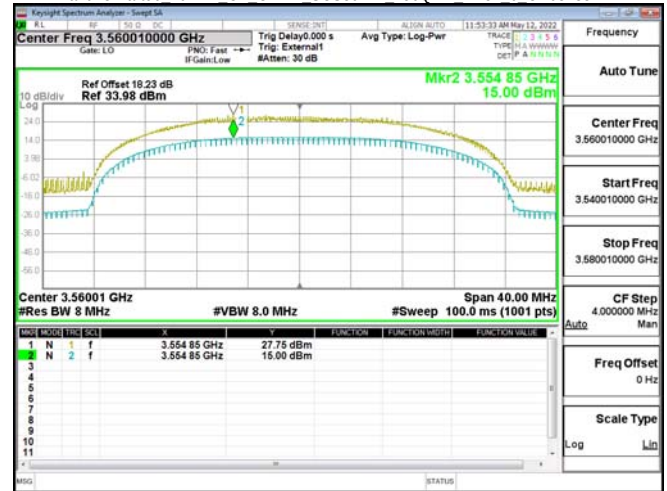
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

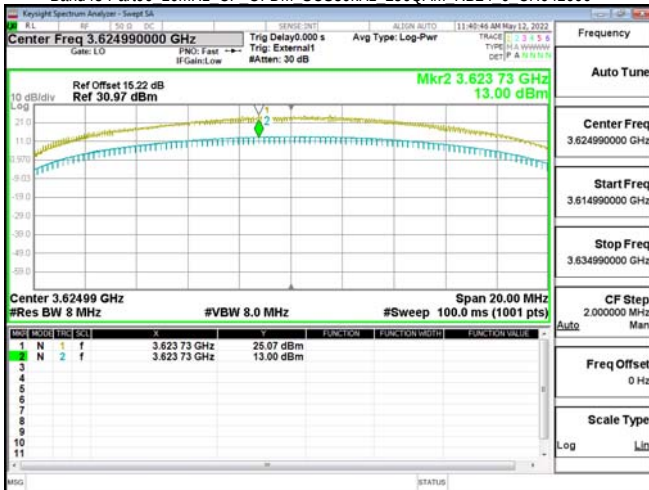
MIMO Band48-Part96 10MHz_CP_OFDM_SCS30kHz_256QAM_RB24_0_CH637000



Band48-Part96 20MHz_CP_OFDM_SCS30kHz_256QAM_RB51_0_CH637334



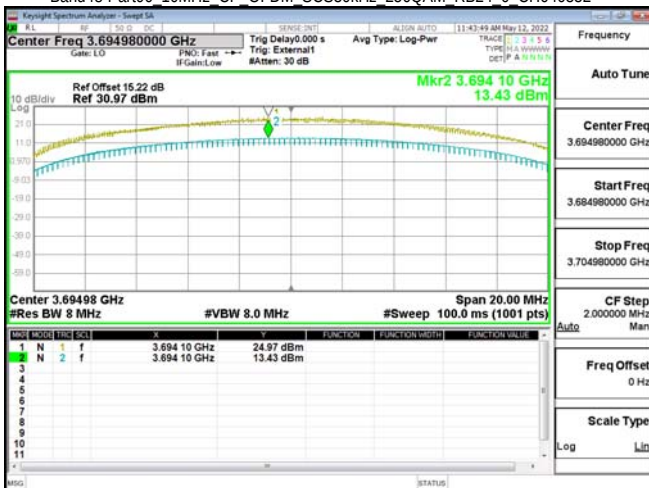
Band48-Part96 10MHz_CP_OFDM_SCS30kHz_256QAM_RB24_0_CH641666



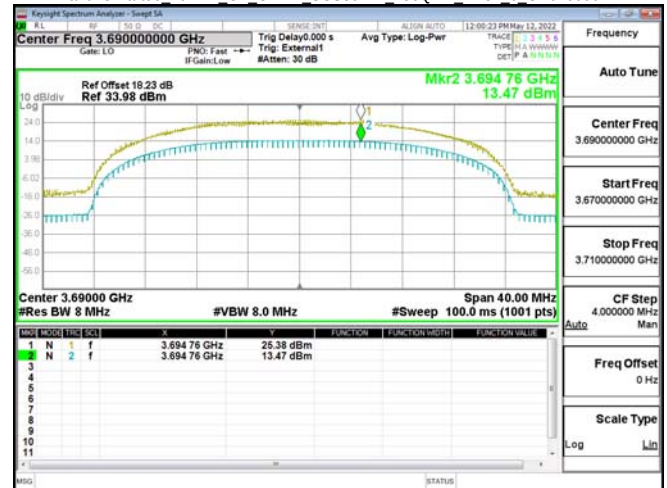
Band48-Part96 20MHz_CP_OFDM_SCS30kHz_256QAM_RB51_0_CH641666



Band48-Part96 10MHz_CP_OFDM_SCS30kHz_256QAM_RB24_0_CH646332



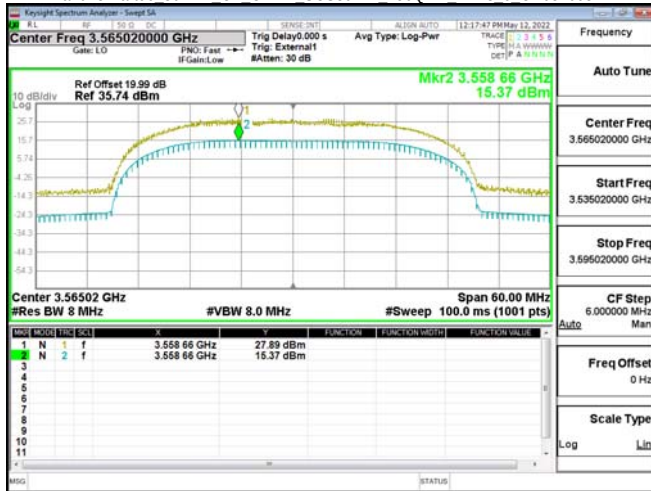
Band48-Part96 20MHz_CP_OFDM_SCS30kHz_256QAM_RB51_0_CH646000



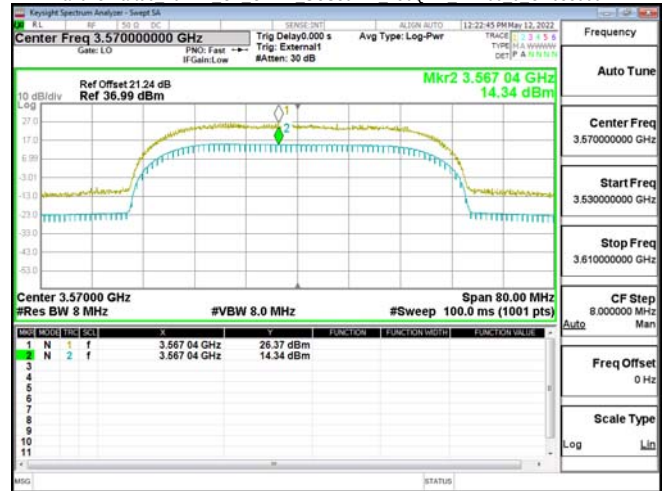
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

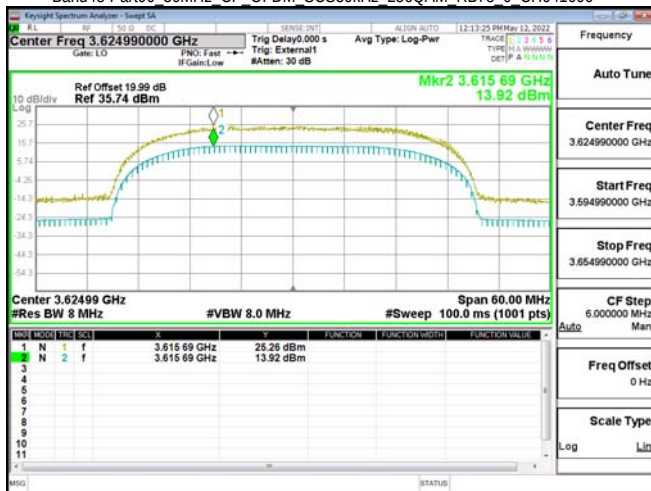
Band48-Part96 30MHz CP OFDM SCS30kHz 256QAM RB78 0 CH637668



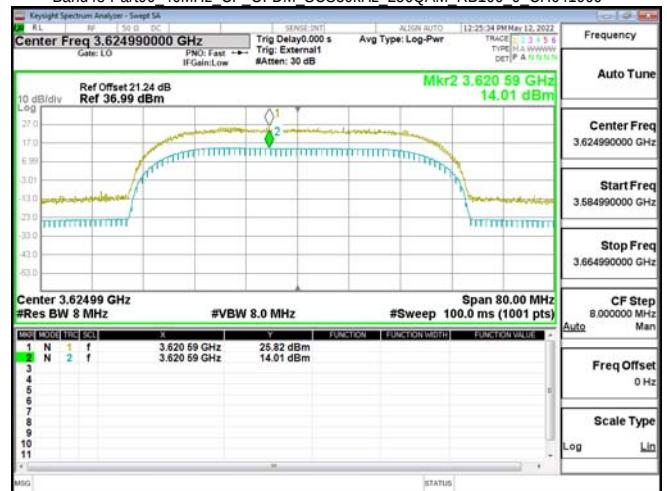
Band48-Part96 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH638000



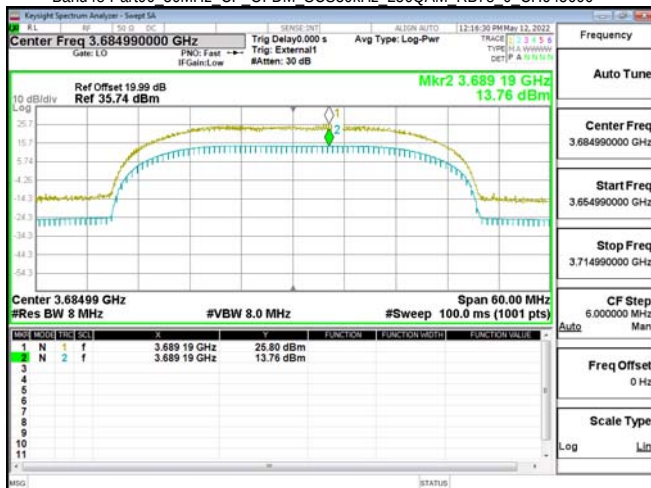
Band48-Part96 30MHz CP OFDM SCS30kHz 256QAM RB78 0 CH641666



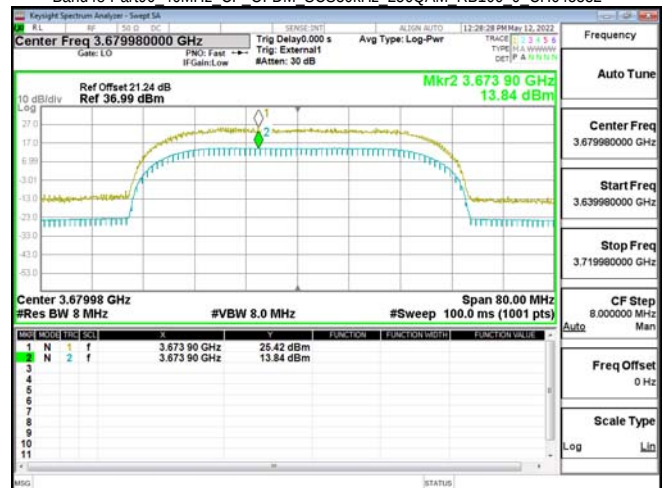
Band48-Part96 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH641666



Band48-Part96 30MHz CP OFDM SCS30kHz 256QAM RB78 0 CH645666



Band48-Part96 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH645332

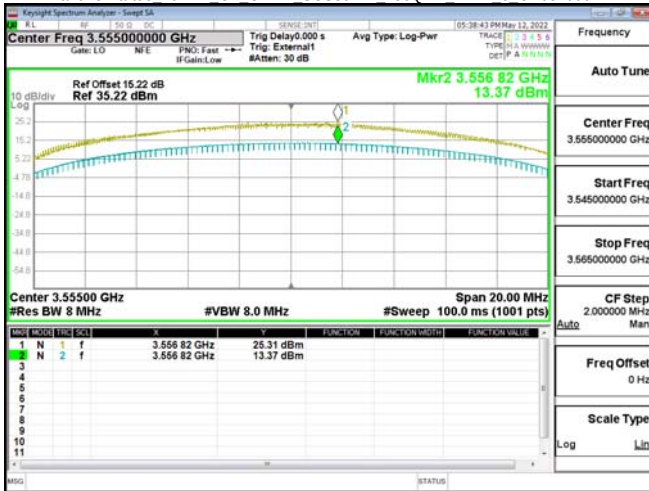


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

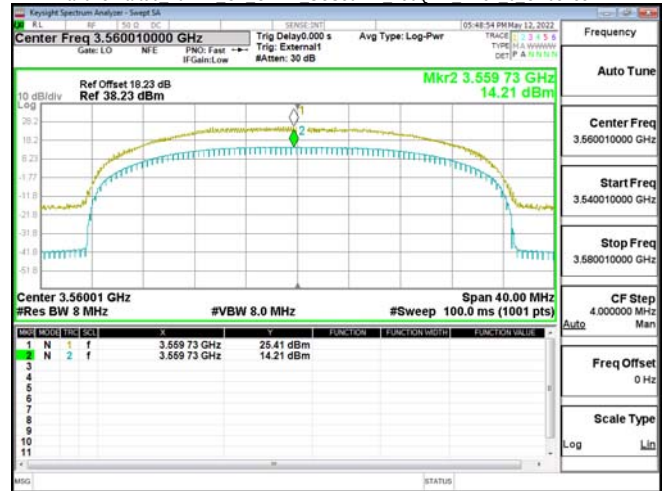
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Band48-Part96 10MHz CP OFDM SCS30kHz 256QAM RB24 0 CH637000



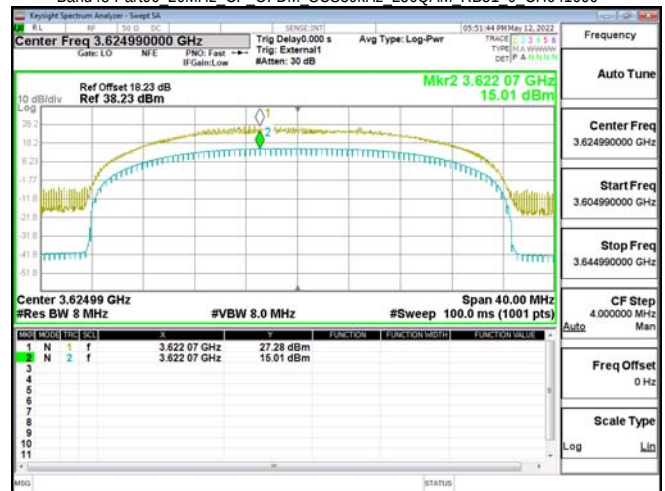
Band48-Part96 20MHz CP OFDM SCS30kHz 256QAM RB51 0 CH637334



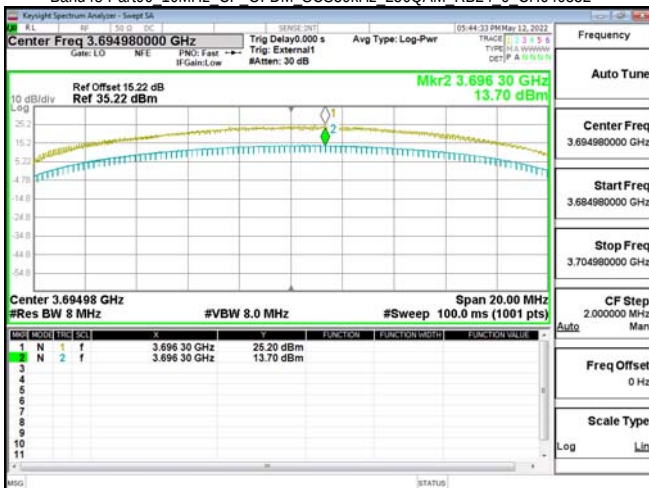
Band48-Part96 10MHz CP OFDM SCS30kHz 256QAM RB24 0 CH641666



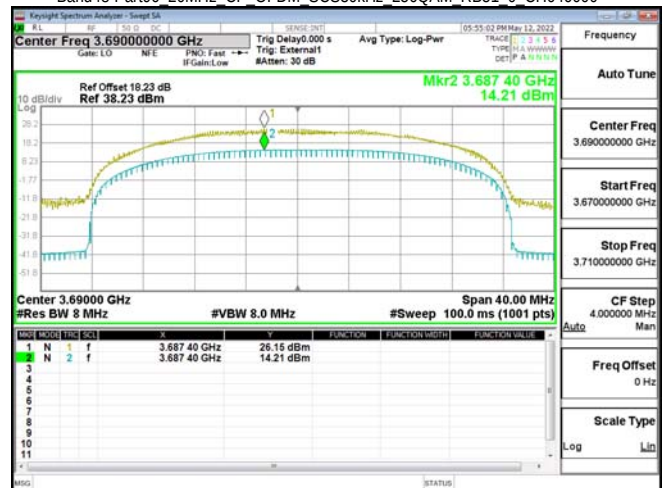
Band48-Part96 20MHz CP OFDM SCS30kHz 256QAM RB51 0 CH641666



Band48-Part96 10MHz CP OFDM SCS30kHz 256QAM RB24 0 CH646332



Band48-Part96 20MHz CP OFDM SCS30kHz 256QAM RB51 0 CH646000

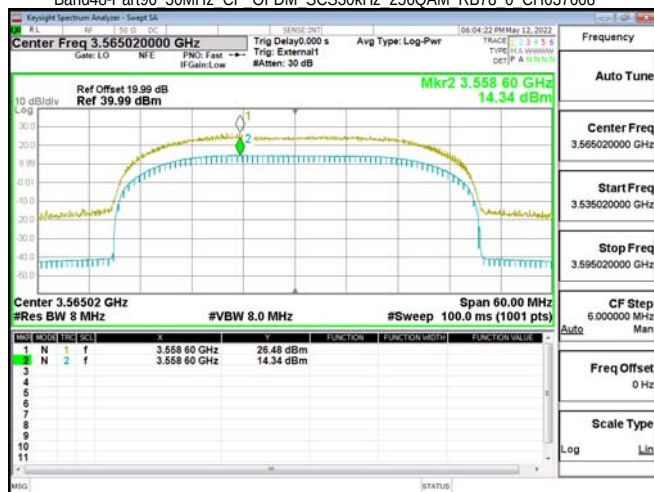


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

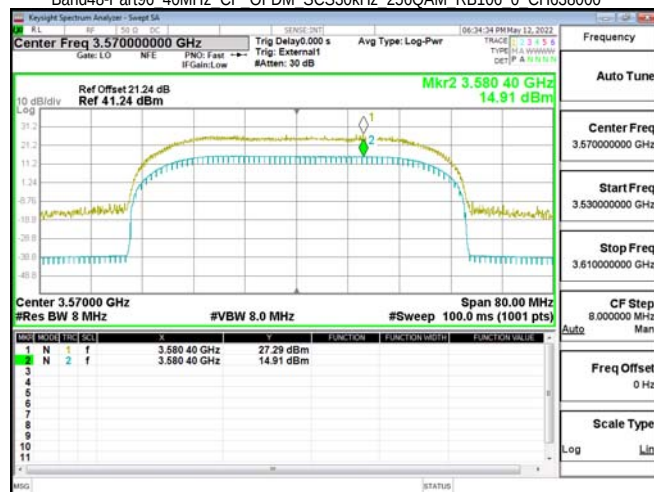
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

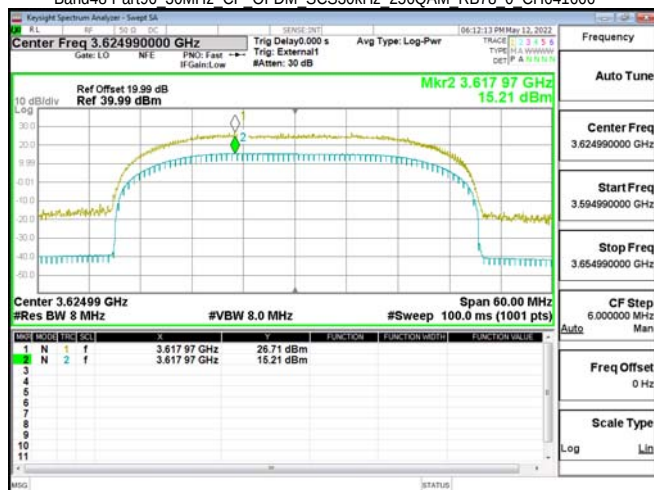
Band48-Part96 30MHz CP OFDM SCS30kHz 256QAM RB78 0 CH637668



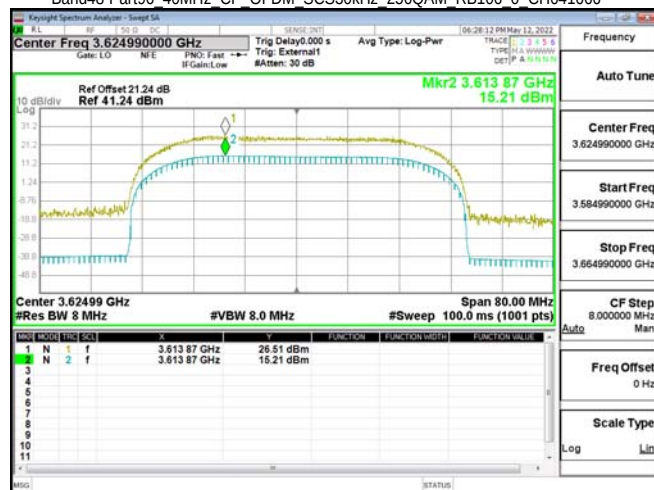
Band48-Part96 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH638000



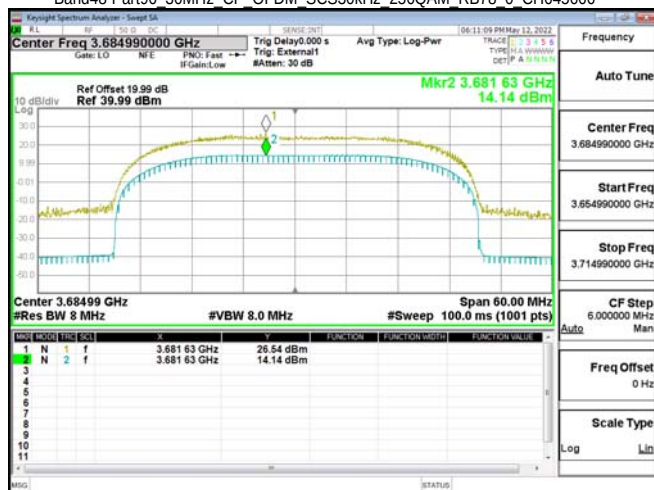
Band48-Part96 30MHz CP OFDM SCS30kHz 256QAM RB78 0 CH641666



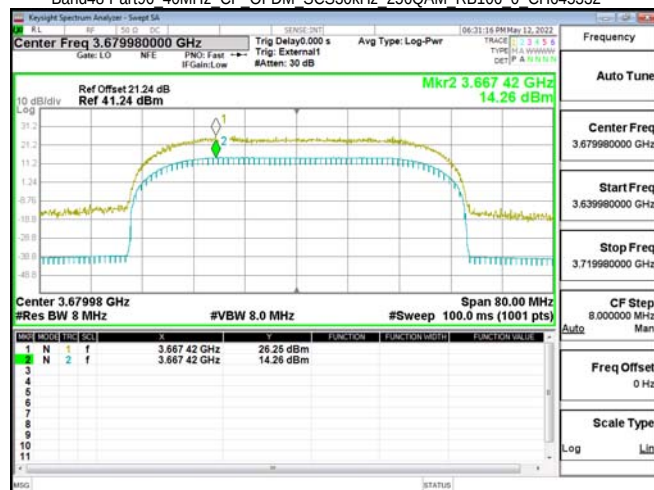
Band48-Part96 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH641666



Band48-Part96 30MHz CP OFDM SCS30kHz 256QAM RB78 0 CH645666



Band48-Part96 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH645332



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.