

Partial FCC Test Report (Part 24 – GSM, Cat-M1 B2/B25)

Report No.: RFBCKS-WTW-P21050677-7

FCC ID: 2ASE7-BIOHB02CTM10

Test Model: ME910G1-WW

Received Date: May 18, 2021

Test Date: Jul. 09 ~ Jul. 10, 2021

Issued Date: Oct. 08, 2021

Applicant: BioIntelliSense, Inc

Address: 570 El Camino Real #200, Redwood City, CA 94063 US

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P21050677-7	Original release	Oct. 08, 2021

1 Certificate of Conformity

Product: Data Terminal Module

Brand: BioIntelliSense, Inc

Test Model: ME910G1-WW

Sample Status: Engineering sample

Applicant: BioIntelliSense, Inc

Test Date: Jul. 09 ~ Jul. 10, 2021

Standards: FCC Part 24, Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Oct. 08, 2021
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Oct. 08, 2021
Bruce Chen / Senior Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -25.27dB at 36.79MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer Shenzhen STS Test Services Co., Ltd. report no.: STS1912245W01 and STS1912245W03 for module (Brand: Telit, Model: ME910G1-WW)
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	2.93 dB
	200MHz ~ 1000MHz	2.95 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 07, 2020	Dec. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 12, 2021	Apr. 11, 2022
Broadband Horn Antenna SCHWARZBECK	BBHA 9170	148	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier EMCI	EMC001340	980201	Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 184045	980116	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 330H	980112	Oct. 07, 2020	Oct. 06, 2021
Power Meter Anritsu	ML2495A	1012010	Sep. 01, 2020	Aug. 31, 2021
Power Sensor Anritsu	MA2411B	1315050	Sep. 01, 2020	Aug. 31, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM-8 000	171005	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(1 40807)	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.

3 General Information

3.1 General Description of EUT

Product	Data Terminal Module	
Brand	BioIntelliSense, Inc	
Test Model	ME910G1-WW	
Sample Status	Engineering sample	
Power Supply Rating	3.8Vdc	
Modulation Type	GPRS: GMSK EDGE: GMSK, 8PSK Cat-M1: QPSK, 16QAM	
Operating Frequency	GPRS/EDGE	1850.2MHz ~1909.8MHz
	Cat-M1 Band 2 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1909.3MHz
	Cat-M1 Band 2 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1908.5MHz
	Cat-M1 Band 2 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1907.5MHz
	Cat-M1 Band 2 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1905.0MHz
	Cat-M1 Band 2 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1902.5MHz
	Cat-M1 Band 2 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1900.0MHz
	Cat-M1 Band 25 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1914.3MHz
	Cat-M1 Band 25 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1913.5MHz
	Cat-M1 Band 25 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1912.5MHz
	Cat-M1 Band 25 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1910.0MHz
	Cat-M1 Band 25 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1907.5MHz
	Cat-M1 Band 25 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1905.0MHz

Max. EIRP Power	GPRS	1663.41mW (32.21dBm)	
	EDGE	726.11mW (28.61dBm)	
		QPSK	16QAM
	Cat-M1 Band 2 (Channel Bandwidth 1.4MHz)	336.512mW (25.27dBm)	267.917mW (24.28dBm)
	Cat-M1 Band 2 (Channel Bandwidth 3MHz)	339.625mW (25.31dBm)	279.898mW (24.47dBm)
	Cat-M1 Band 2 (Channel Bandwidth 5MHz)	355.631mW (25.51dBm)	345.144mW (25.38dBm)
	Cat-M1 Band 2 (Channel Bandwidth 10MHz)	341.979mW (25.34dBm)	334.195mW (25.24dBm)
	Cat-M1 Band 2 (Channel Bandwidth 15MHz)	347.536mW (25.41dBm)	344.350mW (25.37dBm)
	Cat-M1 Band 2 (Channel Bandwidth 20MHz)	351.560mW (25.46dBm)	348.337mW (25.42dBm)
	Cat-M1 Band 25 (Channel Bandwidth 1.4MHz)	355.631mW (25.51dBm)	269.153mW (24.30dBm)
	Cat-M1 Band 25 (Channel Bandwidth 3MHz)	354.813mW (25.50dBm)	276.694mW (24.42dBm)
	Cat-M1 Band 25 (Channel Bandwidth 5MHz)	356.451mW (25.52dBm)	346.737mW (25.40dBm)
	Cat-M1 Band 25 (Channel Bandwidth 10MHz)	362.243mW (25.59dBm)	351.560mW (25.46dBm)
	Cat-M1 Band 25 (Channel Bandwidth 15MHz)	365.595mW (25.63dBm)	352.371mW (25.47dBm)
	Cat-M1 Band 25 (Channel Bandwidth 20MHz)	355.631mW (25.51dBm)	344.350mW (25.37dBm)
Antenna Type	Refer to Note		
Antenna Connector	Refer to Note		
Accessory Device	Adapter		
Cable Supplied	NA		

Note:

1. This report is prepared for FCC class II permissive change. The differences compared with the original design are added antenna and antenna trace change. Therefore, only test item of Effective Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer Shenzhen STS Test Services Co., Ltd. report no.: STS1912245W01 and STS1912245W03 for module (Brand: Telit, Model: ME910G1-WW).
2. The following antennas were provided to the EUT.

Original antenna

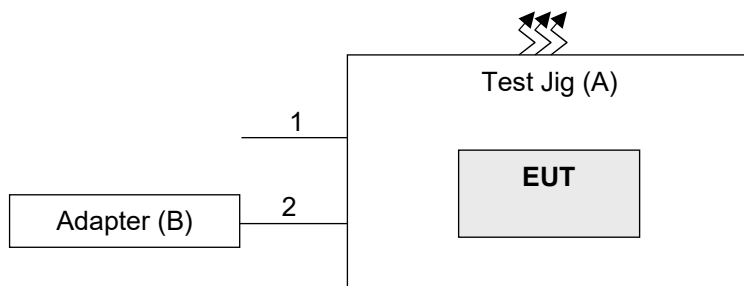
Antenna Type	Antenna gain (dBi)										
	GPRS 850	GPRS 1900	Cat-M1 B2	Cat-M1 B4	Cat-M1 B5	Cat-M1 B12	Cat-M1 B13	Cat-M1 B25	Cat-M1 B26	Cat-M1 B66	Cat-M1 B85
External	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14

New antenna

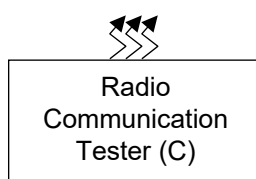
Antenna Type	Antenna gain (dBi)										
	GPRS 850	GPRS 1900	Cat-M1 B2	Cat-M1 B4	Cat-M1 B5	Cat-M1 B12	Cat-M1 B13	Cat-M1 B25	Cat-M1 B26	Cat-M1 B66	Cat-M1 B85
PIFA	-1.22	2.06	2.06	2.20	-1.22	-7.22	-4.03	2.06	0.10	2.20	-7.22

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Configuration of System under Test



Remote site



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Test Jig	NA	NA	NA	NA	Provided by manufacturer
B.	Adapter	APD	WB-10Q05FU	NA	NA	Provided by manufacturer
C.	Radio Communication Tester	Anritsu	MT8820C	6201300640	NA	-

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Type C to USB cable	1	1.0	N	0	-
2.	Power cable	1	2.0	N	0	Provided by manufacturer Attached on adapter

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	Radiated Emission
GPRS/EDGE	Z-plane
Cat-M1 Band 2	X-plane
Cat-M1 Band 25	X-plane

GPRS/EDGE Mode

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	512 to 810	512 (1850.2MHz), 661 (1880.0MHz), 810 (1909.8MHz)	GPRS, EDGE
-	Radiated Emission Below 1GHz	512 to 810	661 (1880.0MHz)	GPRS, EDGE
-	Radiated Emission Above 1GHz	512 to 810	512 (1850.2MHz), 661 (1880.0MHz), 810 (1909.8MHz)	GPRS, EDGE

Note: For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.

Cat-M1 Band 2

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	18700 to 19100	18900 (1880.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, the Radiated Emission test item was performed under QPSK mode only.

Cat-M1 Band 25

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 3 RB Offset 5 RB / 0 RB Offset 5 RB / 1 RB Offset 6 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	26140 to 26590	26365 (1882.5MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, the Radiated Emission test item was performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25deg. C, 60%RH	120Vac, 60Hz	Cookie Ku
Radiated Emission	25deg. C, 60%RH	120Vac, 60Hz	Cookie Ku

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with GSM and Cat-M1 link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

$$\text{ERP} = P_{\text{Meas}} + G_{\text{T}} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_{T} gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	GSM1900		
Channel	512	661	810
Frequency	1850.2	1880	1909.8
GPRS	29.78	30.15	30.07
EDGE	26.28	26.32	26.55

Cat-M1 Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.40	23.29	23.26
		1	5	23.30	23.26	23.23
		3	0	22.50	22.59	22.53
		3	3	22.54	22.46	22.60
		6	0	22.57	22.57	22.42
20M	16QAM	1	0	23.28	23.24	23.36
		1	5	23.34	23.35	23.34
		3	0	22.31	22.22	22.32
		3	3	22.24	22.34	22.24
		5	0	22.67	22.71	22.78
		5	1	22.54	22.65	22.64
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	23.35	23.18	23.17
		1	5	23.13	23.13	23.19
		3	0	22.44	22.52	22.52
		3	3	22.54	22.53	22.41
		6	0	22.42	22.60	22.44
15M	16QAM	1	0	23.29	23.18	23.29
		1	5	23.31	23.16	23.28
		3	0	22.24	22.26	22.39
		3	3	22.26	22.23	22.25
		5	0	22.72	22.74	22.74
		5	1	22.63	22.62	22.66
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.27	23.28	23.24
		1	5	23.15	23.12	23.17
		3	0	22.48	22.44	22.46
		3	3	22.57	22.58	22.57
		6	0	22.43	22.23	22.21
10M	16QAM	1	0	23.18	23.13	23.16
		1	5	23.03	23.01	23.05
		3	0	22.28	22.27	22.40
		3	3	22.23	22.30	22.29
		5	0	21.97	21.91	21.89
		5	1	21.89	21.86	21.79

Cat-M1 Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	23.45	23.37	23.30
		1	5	23.34	23.26	23.25
		3	0	22.49	22.41	22.49
		3	3	22.46	22.43	22.49
		6	0	22.51	22.58	22.51
5M	16QAM	1	0	23.27	23.32	23.14
		1	5	23.17	23.23	23.16
		3	0	22.36	22.28	22.24
		3	3	22.30	22.21	21.63
		5	0	21.52	21.50	21.62
		5	1	21.58	21.53	21.68
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	23.25	23.23	23.24
		1	5	23.16	23.18	23.15
		3	0	22.42	22.43	22.51
		3	3	22.44	22.49	22.57
		6	0	21.36	21.28	21.03
3M	16QAM	1	0	22.41	22.31	22.30
		1	5	22.38	22.36	22.24
		3	0	22.30	22.28	22.33
		3	3	22.26	22.34	22.36
		5	0	21.08	21.06	21.00
		5	1	21.05	21.01	21.03
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	23.21	23.15	23.15
		1	5	23.10	23.13	23.14
		3	0	22.44	22.53	22.57
		3	3	22.48	22.44	22.60
		6	0	21.37	21.09	21.11
1.4M	16QAM	1	0	22.22	22.05	22.17
		1	5	22.15	22.02	22.08
		3	0	22.03	22.04	22.09
		3	3	22.08	22.05	22.02
		5	0	21.22	21.21	21.15
		5	1	21.14	21.12	21.00

Cat-M1 Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	23.39	23.45	23.44
		1	5	23.33	23.40	23.40
		3	0	22.37	22.60	22.45
		3	3	22.34	22.59	22.43
		6	0	22.54	22.44	22.42
20M	16QAM	1	0	23.01	23.24	23.31
		1	5	22.92	23.21	23.30
		3	0	22.39	22.23	22.20
		3	3	22.22	22.30	22.40
		5	0	22.58	22.58	22.70
		5	1	22.67	22.65	22.52
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	23.57	23.51	23.47
		1	5	23.49	23.47	23.43
		3	0	22.60	22.45	22.59
		3	3	22.45	22.52	22.53
		6	0	22.40	22.53	22.60
15M	16QAM	1	0	23.41	23.37	23.39
		1	5	23.38	23.25	23.40
		3	0	22.32	22.20	22.34
		3	3	22.36	22.26	22.27
		5	0	22.69	22.52	22.51
		5	1	22.50	22.55	22.50
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	23.44	23.53	23.43
		1	5	23.43	23.49	23.41
		3	0	22.50	22.45	22.46
		3	3	22.45	22.53	22.52
		6	0	22.20	22.44	22.13
10M	16QAM	1	0	23.40	23.30	23.37
		1	5	23.20	23.39	23.39
		3	0	22.28	22.36	22.27
		3	3	22.28	22.33	22.29
		5	0	21.60	21.54	21.62
		5	1	21.67	21.53	21.57

Cat-M1 Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	23.46	23.43	23.33
		1	5	23.44	23.36	23.31
		3	0	22.52	22.55	22.41
		3	3	22.42	22.38	22.35
		6	0	22.41	22.37	22.34
5M	16QAM	1	0	23.22	23.34	23.24
		1	5	23.27	23.30	23.21
		3	0	22.31	22.29	22.37
		3	3	21.41	21.52	21.56
		5	0	21.40	21.51	21.55
		5	1	21.36	21.47	21.53
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	23.16	23.44	23.42
		1	5	23.08	23.39	23.40
		3	0	22.45	22.41	22.47
		3	3	22.51	22.54	22.56
		6	0	21.28	21.26	21.43
3M	16QAM	1	0	22.34	22.36	22.11
		1	5	22.33	22.22	22.02
		3	0	22.32	22.35	22.01
		3	3	22.22	22.30	22.00
		5	0	21.37	21.31	21.15
		5	1	21.35	21.24	21.16
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	23.21	23.35	23.45
		1	5	23.18	23.31	23.38
		3	0	22.48	22.56	22.45
		3	3	22.44	22.41	22.52
		6	0	21.14	21.39	21.48
1.4M	16QAM	1	0	22.23	22.24	22.17
		1	5	22.12	22.23	22.15
		3	0	22.07	22.08	22.13
		3	3	22.06	22.07	22.16
		5	0	21.21	21.36	21.54
		5	1	21.18	21.33	21.51

EIRP Power (dBm)

Band	GSM1900		
Channel	512	661	810
Frequency	1850.2	1880	1909.8
GPRS	31.84	32.21	32.13
EDGE	28.34	28.38	28.61

Cat-M1 Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	25.46	25.35	25.32
		1	5	25.36	25.32	25.29
		3	0	24.56	24.65	24.59
		3	3	24.60	24.52	24.66
		6	0	24.63	24.63	24.48
20M	16QAM	1	0	25.34	25.30	25.42
		1	5	25.40	25.41	25.40
		3	0	24.37	24.28	24.38
		3	3	24.30	24.40	24.30
		5	0	24.73	24.77	24.84
		5	1	24.60	24.71	24.70
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	25.41	25.24	25.23
		1	5	25.19	25.19	25.25
		3	0	24.50	24.58	24.58
		3	3	24.60	24.59	24.47
		6	0	24.48	24.66	24.50
15M	16QAM	1	0	25.35	25.24	25.35
		1	5	25.37	25.22	25.34
		3	0	24.30	24.32	24.45
		3	3	24.32	24.29	24.31
		5	0	24.78	24.80	24.80
		5	1	24.69	24.68	24.72
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	25.33	25.34	25.30
		1	5	25.21	25.18	25.23
		3	0	24.54	24.50	24.52
		3	3	24.63	24.64	24.63
		6	0	24.49	24.29	24.27
10M	16QAM	1	0	25.24	25.19	25.22
		1	5	25.09	25.07	25.11
		3	0	24.34	24.33	24.46
		3	3	24.29	24.36	24.35
		5	0	24.03	23.97	23.95
		5	1	23.95	23.92	23.85

Cat-M1 Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	25.51	25.43	25.36
		1	5	25.40	25.32	25.31
		3	0	24.55	24.47	24.55
		3	3	24.52	24.49	24.55
		6	0	24.57	24.64	24.57
5M	16QAM	1	0	25.33	25.38	25.20
		1	5	25.23	25.29	25.22
		3	0	24.42	24.34	24.30
		3	3	24.36	24.27	23.69
		5	0	23.58	23.56	23.68
		5	1	23.64	23.59	23.74
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	25.31	25.29	25.30
		1	5	25.22	25.24	25.21
		3	0	24.48	24.49	24.57
		3	3	24.50	24.55	24.63
		6	0	23.42	23.34	23.09
3M	16QAM	1	0	24.47	24.37	24.36
		1	5	24.44	24.42	24.30
		3	0	24.36	24.34	24.39
		3	3	24.32	24.40	24.42
		5	0	23.14	23.12	23.06
		5	1	23.11	23.07	23.09
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	25.27	25.21	25.21
		1	5	25.16	25.19	25.20
		3	0	24.50	24.59	24.63
		3	3	24.54	24.50	24.66
		6	0	23.43	23.15	23.17
1.4M	16QAM	1	0	24.28	24.11	24.23
		1	5	24.21	24.08	24.14
		3	0	24.09	24.10	24.15
		3	3	24.14	24.11	24.08
		5	0	23.28	23.27	23.21
		5	1	23.20	23.18	23.06

Cat-M1 Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	25.45	25.51	25.50
		1	5	25.39	25.46	25.46
		3	0	24.43	24.66	24.51
		3	3	24.40	24.65	24.49
		6	0	24.60	24.50	24.48
20M	16QAM	1	0	25.07	25.30	25.37
		1	5	24.98	25.27	25.36
		3	0	24.45	24.29	24.26
		3	3	24.28	24.36	24.46
		5	0	24.64	24.64	24.76
		5	1	24.73	24.71	24.58
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	25.63	25.57	25.53
		1	5	25.55	25.53	25.49
		3	0	24.66	24.51	24.65
		3	3	24.51	24.58	24.59
		6	0	24.46	24.59	24.66
15M	16QAM	1	0	25.47	25.43	25.45
		1	5	25.44	25.31	25.46
		3	0	24.38	24.26	24.40
		3	3	24.42	24.32	24.33
		5	0	24.75	24.58	24.57
		5	1	24.56	24.61	24.56
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	25.50	25.59	25.49
		1	5	25.49	25.55	25.47
		3	0	24.56	24.51	24.52
		3	3	24.51	24.59	24.58
		6	0	24.26	24.50	24.19
10M	16QAM	1	0	25.46	25.36	25.43
		1	5	25.26	25.45	25.45
		3	0	24.34	24.42	24.33
		3	3	24.34	24.39	24.35
		5	0	23.66	23.60	23.68
		5	1	23.73	23.59	23.63

Cat-M1 Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	25.52	25.49	25.39
		1	5	25.50	25.42	25.37
		3	0	24.58	24.61	24.47
		3	3	24.48	24.44	24.41
		6	0	24.47	24.43	24.40
5M	16QAM	1	0	25.28	25.40	25.30
		1	5	25.33	25.36	25.27
		3	0	24.37	24.35	24.43
		3	3	23.47	23.58	23.62
		5	0	23.46	23.57	23.61
		5	1	23.42	23.53	23.59
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	25.22	25.50	25.48
		1	5	25.14	25.45	25.46
		3	0	24.51	24.47	24.53
		3	3	24.57	24.60	24.62
		6	0	23.34	23.32	23.49
3M	16QAM	1	0	24.40	24.42	24.17
		1	5	24.39	24.28	24.08
		3	0	24.38	24.41	24.07
		3	3	24.28	24.36	24.06
		5	0	23.43	23.37	23.21
		5	1	23.41	23.30	23.22
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	25.27	25.41	25.51
		1	5	25.24	25.37	25.44
		3	0	24.54	24.62	24.51
		3	3	24.50	24.47	24.58
		6	0	23.20	23.45	23.54
1.4M	16QAM	1	0	24.29	24.30	24.23
		1	5	24.18	24.29	24.21
		3	0	24.13	24.14	24.19
		3	3	24.12	24.13	24.22
		5	0	23.27	23.42	23.60
		5	1	23.24	23.39	23.57

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. Correction Factor (includes EIRP and ERP unit conversion factor) = $\text{Antenna gain of substitution horn} - \text{Tx cable loss}$. Measurement method refers to ANSI C63.26 section 5.5.3.2.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$.

Note:

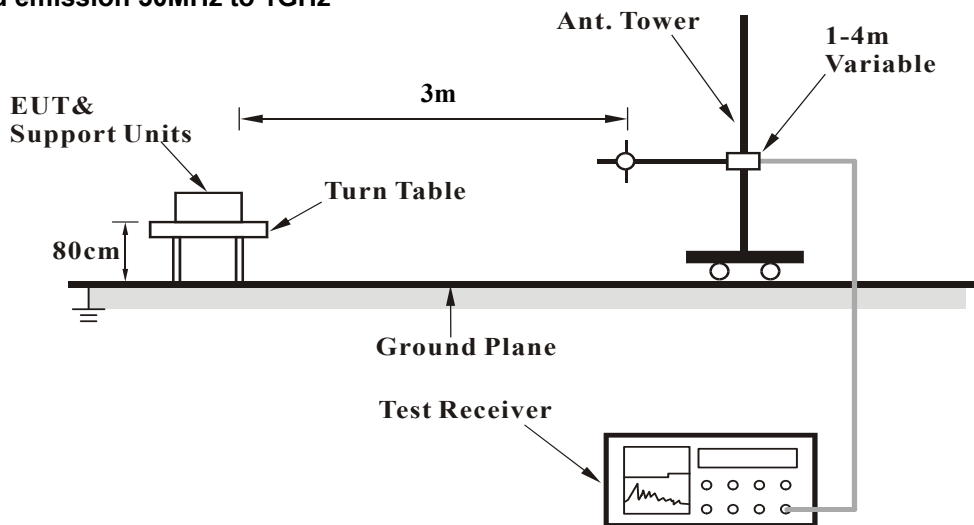
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

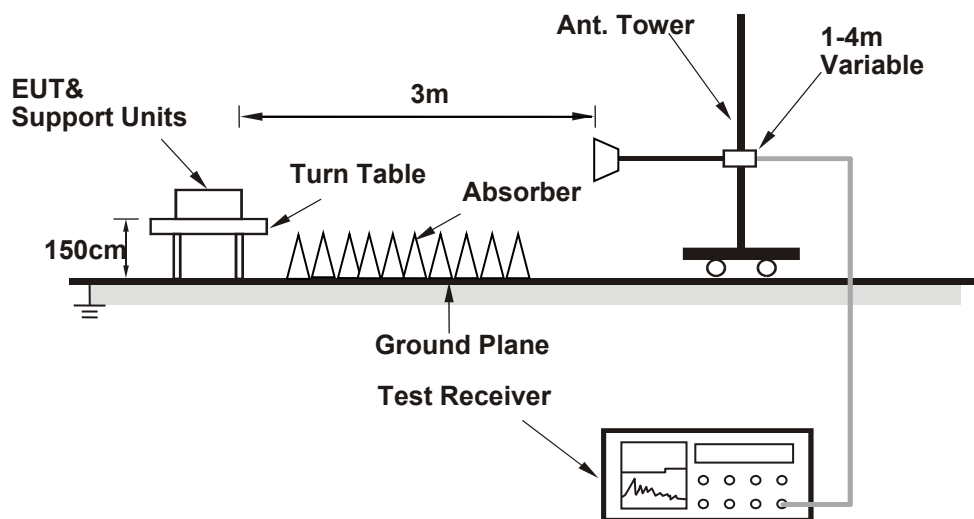
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

GPRS

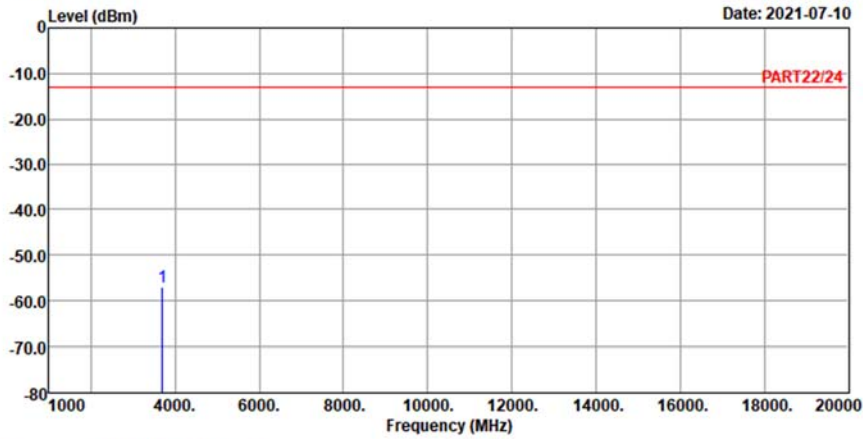
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : PCS 1900 Link_L-CH
 Tested by: Cookie Ku

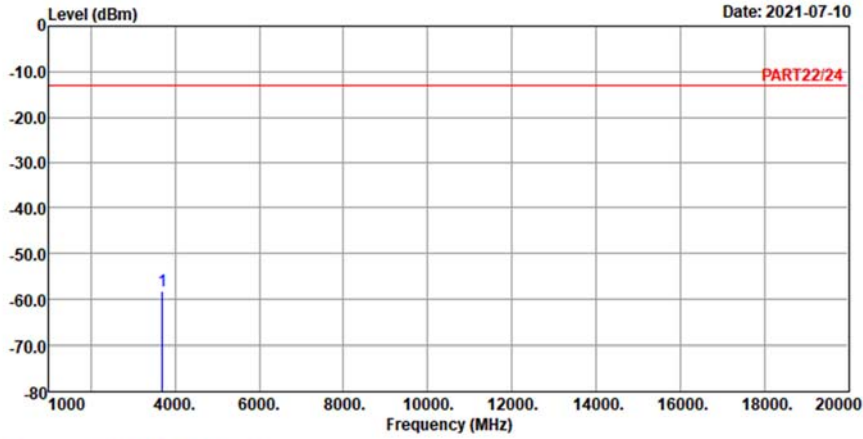
Read	Limit	Over				
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-56.93	-50.00	-13.00	-6.93	-43.93	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : PCS 1900 Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3700.40 -58.01 -51.08 -13.00 -6.93 -45.01 Peak

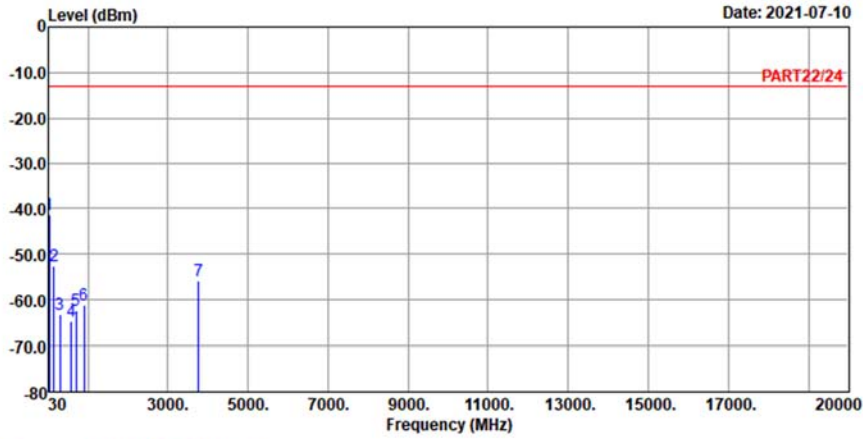
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : PCS 1900 Link_M-CH
 Tested by: Cookie Ku

	Read	Limit	Over			
Level	Level	Line	Factor	Limit	Remark	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	37.76	-41.47	-41.03	-13.00	-0.44	-28.47 Peak
2	155.13	-52.59	-46.38	-13.00	-6.21	-39.59 Peak
3	309.36	-63.23	-56.37	-13.00	-6.86	-50.23 Peak
4	584.84	-64.67	-63.27	-13.00	-1.40	-51.67 Peak
5	705.12	-62.32	-62.32	-13.00	0.00	-49.32 Peak
6	910.76	-61.10	-61.94	-13.00	0.84	-48.10 Peak
7	3760.00	-55.85	-49.20	-13.00	-6.65	-42.85 Peak

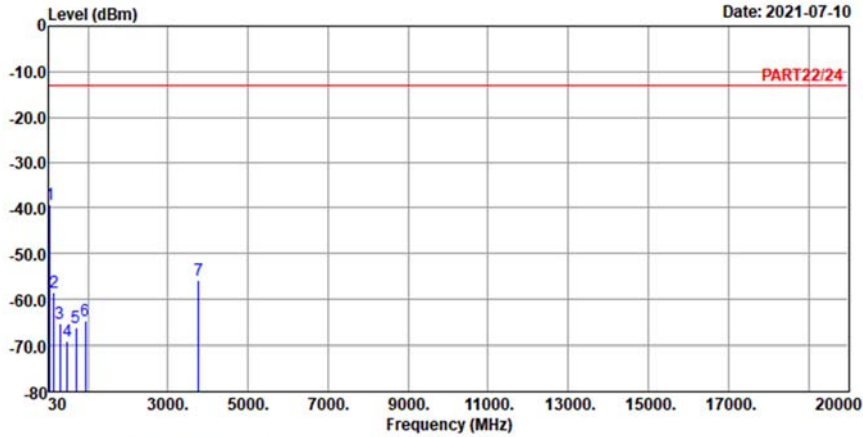


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-07-10



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : PCS 1900 Link_M-CH
 Tested by: Cookie Ku

	Read	Limit	Over				
Freq	Level	Level	Line	Factor	Limit	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1 pp	54.25	-39.34	-33.27	-13.00	-6.07	-26.34	Peak
2	159.01	-58.32	-53.20	-13.00	-5.12	-45.32	Peak
3	309.36	-65.25	-58.39	-13.00	-6.86	-52.25	Peak
4	484.93	-69.15	-64.25	-13.00	-4.90	-56.15	Peak
5	711.91	-66.12	-66.25	-13.00	0.13	-53.12	Peak
6	939.86	-64.76	-66.32	-13.00	1.56	-51.76	Peak
7	3760.00	-55.88	-49.23	-13.00	-6.65	-42.88	Peak

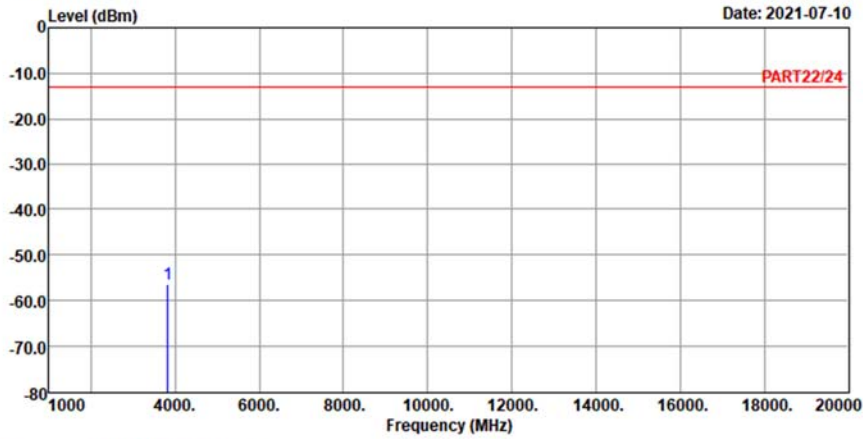
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : PCS 1900 Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

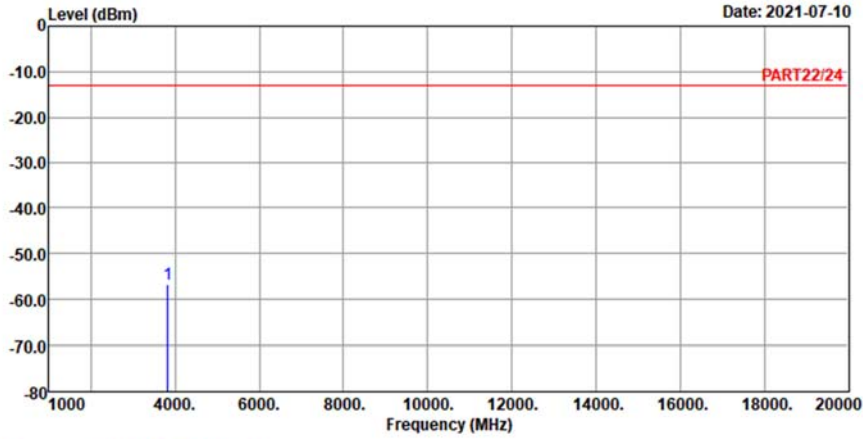
1 pp 3819.60 -56.46 -50.06 -13.00 -6.40 -43.46 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : PCS 1900 Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3819.60 -56.73 -50.33 -13.00 -6.40 -43.73 Peak

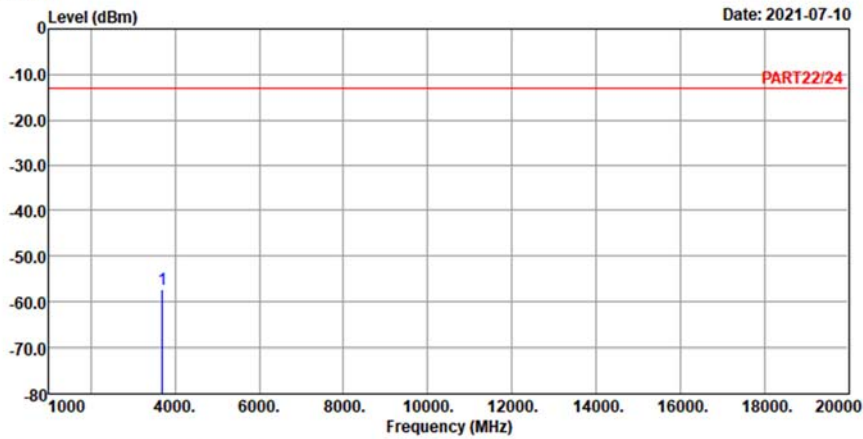
EDGE
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remark : EDGE 1900 Link_L-CH
Tested by: Cookie Ku

Read	Limit	Over					
Level	Line	Limit	Factor	Remark			
dBm	dBm	dBm	dB	dB			
1 pp	3700.40	-57.41	-50.48	-13.00	-6.93	-44.41	Peak

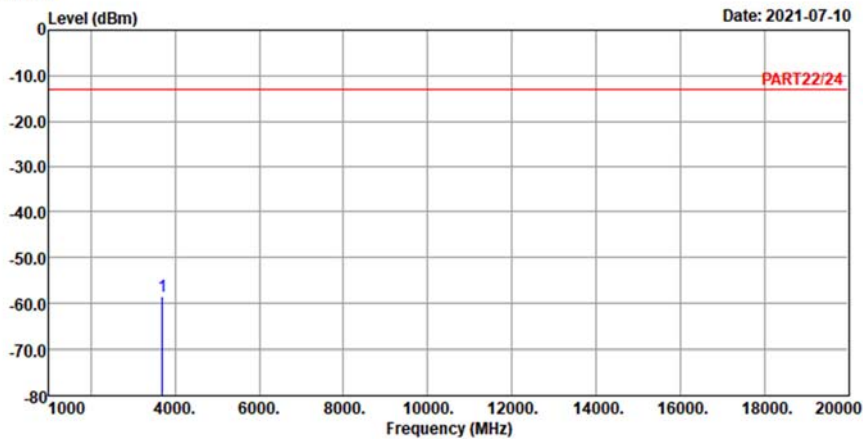


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-10



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : EDGE 1900 Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3700.40 -58.49 -51.56 -13.00 -6.93 -45.49 Peak

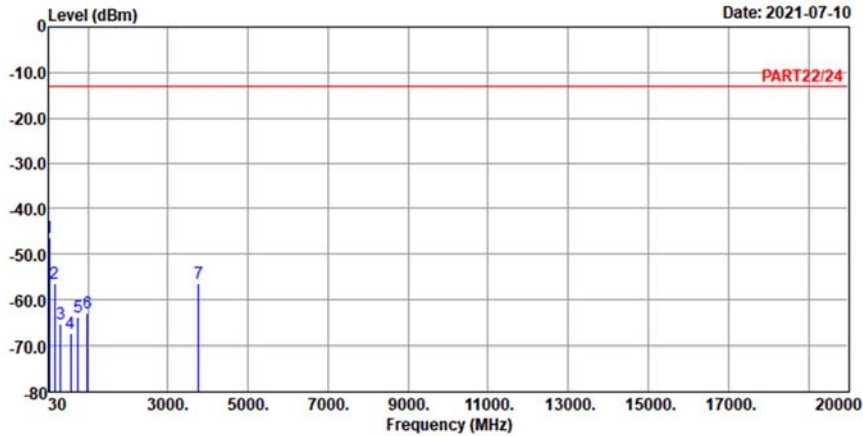
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : EDGE 1900 Link_M-CH
 Tested by: Cookie Ku

	Read	Limit	Over			
Level	Level	Line	Factor	Limit	Remark	
dBm	dBm	dBm	dB	dB		
1 pp	42.61	-46.27	-45.33	-13.00	-0.94	-33.27 Peak
2	160.95	-56.27	-51.36	-13.00	-4.91	-43.27 Peak
3	321.97	-65.30	-58.63	-13.00	-6.67	-52.30 Peak
4	569.32	-67.24	-65.20	-13.00	-2.04	-54.24 Peak
5	752.65	-63.79	-64.66	-13.00	0.87	-50.79 Peak
6	980.60	-62.98	-65.87	-13.00	2.89	-49.98 Peak
7	3760.00	-56.30	-49.65	-13.00	-6.65	-43.30 Peak

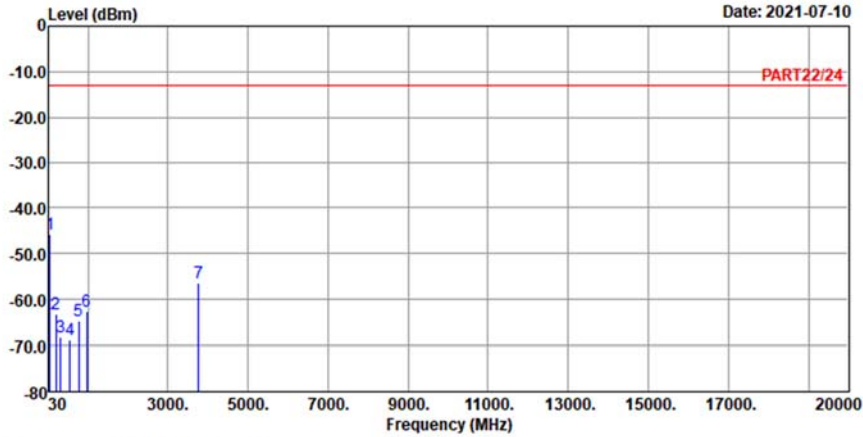


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-07-10



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : EDGE 1900 Link_M-CH
 Tested by: Cookie Ku

	Freq	Level	Read Level	Limit	Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm		dB	dB	
1	pp	58.13	-45.70	-38.57	-13.00	-7.13	-32.70	Peak
2		197.81	-63.04	-55.21	-13.00	-7.83	-50.04	Peak
3		326.82	-68.23	-61.63	-13.00	-6.60	-55.23	Peak
4		549.92	-68.70	-65.85	-13.00	-2.85	-55.70	Peak
5		772.05	-64.70	-65.52	-13.00	0.82	-51.70	Peak
6		975.75	-62.60	-65.32	-13.00	2.72	-49.60	Peak
7		3760.00	-56.26	-49.61	-13.00	-6.65	-43.26	Peak

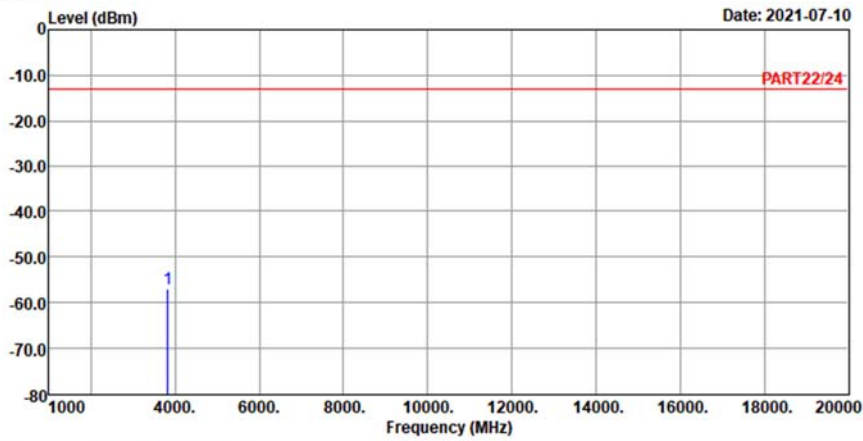
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : EDGE 1900 Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

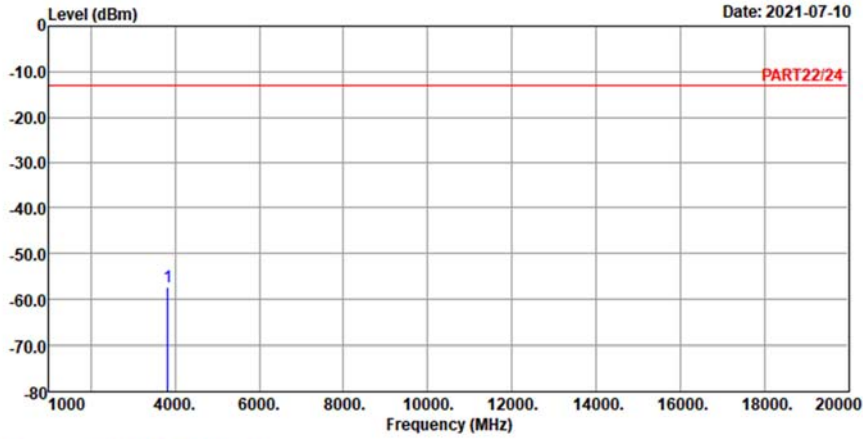
1 pp 3819.60 -56.92 -50.52 -13.00 -6.40 -43.92 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : EDGE 1900 Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3819.60 -57.33 -50.93 -13.00 -6.40 -44.33 Peak

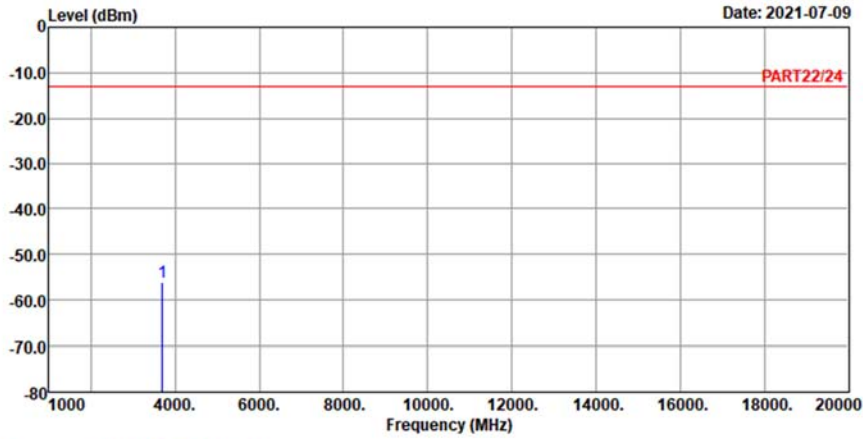
**Cat-M1 Band 2, Channel Bandwidth 1.4MHz
Low Channel**



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_1.4M Link_L-CH
 Tested by: Cookie Ku

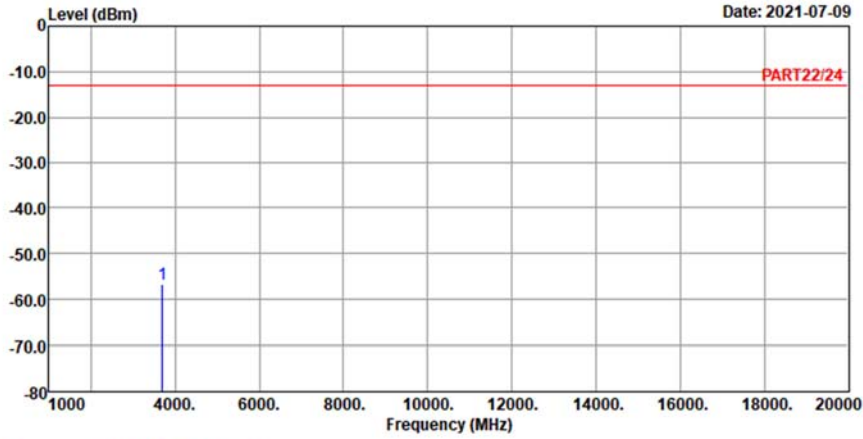
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-56.11	-49.18	-13.00	-6.93	-43.11	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 2 QPSK_1.4M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3701.40 -56.54 -49.61 -13.00 -6.93 -43.54 Peak

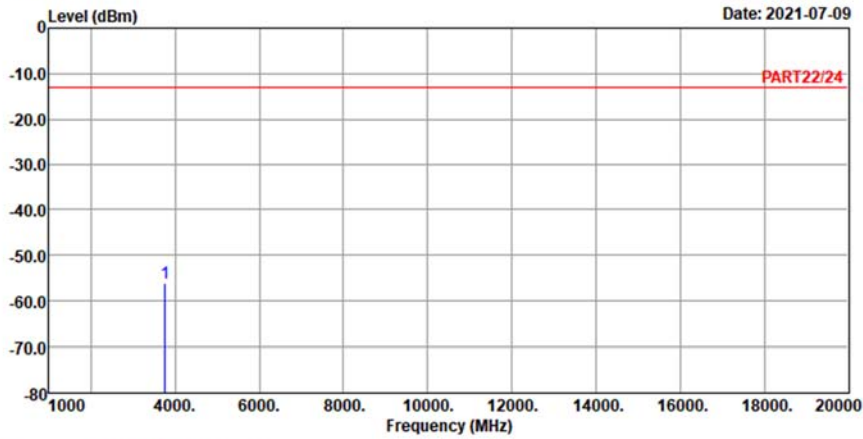
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_1.4M Link_M-CH
 Tested by: Cookie Ku

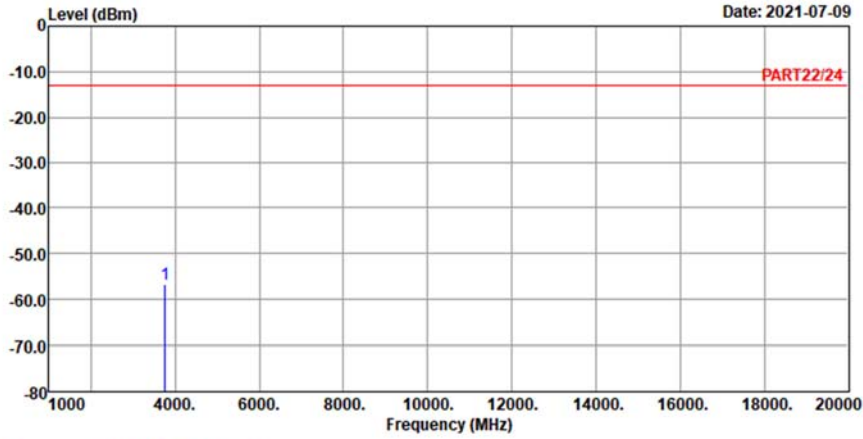
Read	Limit	Over				
Level	Level	Limit	Line	Factor	Limit	Remark
dBm	dBm	dBm	dBm	dB	dB	
1 pp	3760.00	-56.19	-49.54	-13.00	-6.65	-43.19 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 2 QPSK_1.4M Link_M-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3760.00 -56.75 -50.10 -13.00 -6.65 -43.75 Peak

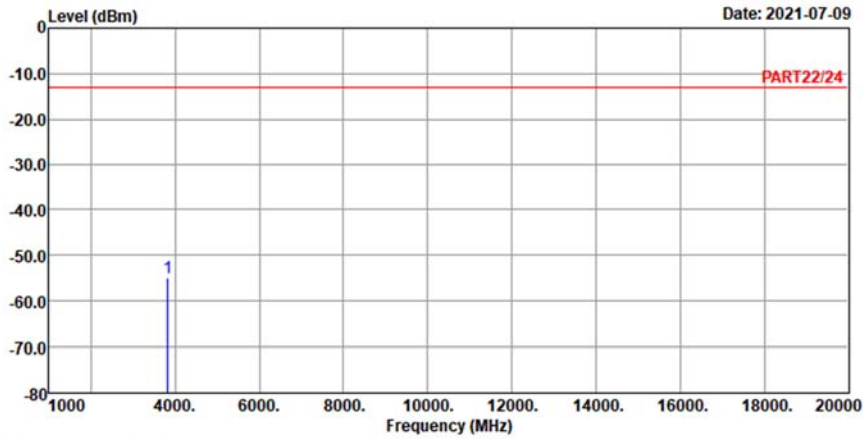
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_1.4M Link_H-CH
 Tested by: Cookie Ku

Read	Limit	Over	Remark				
Level	Level	Line	Factor	Limit			
dBm	dBm	dBm	dB	dB			
1 pp	3818.60	-55.01	-48.61	-13.00	-6.40	-42.01	Peak

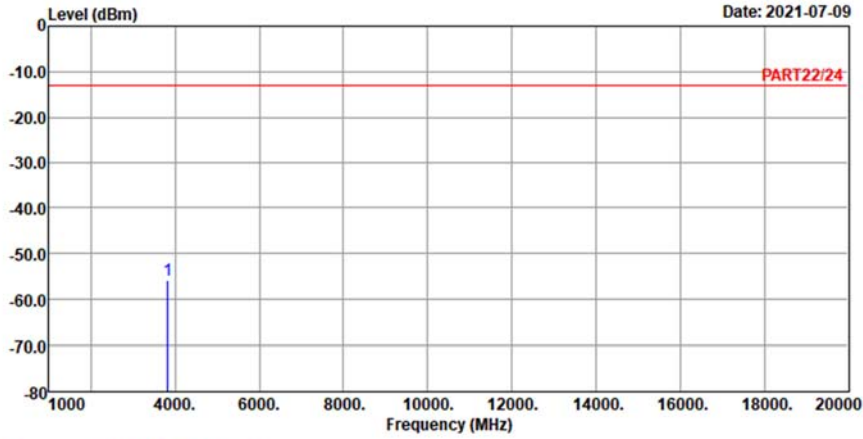


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 2 QPSK_1.4M Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3818.60 -55.79 -49.39 -13.00 -6.40 -42.79 Peak

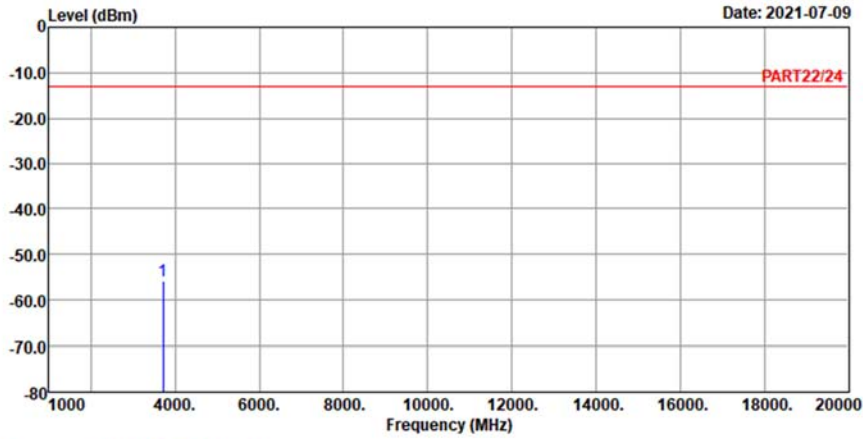
**Cat-M1 Band 2, Channel Bandwidth 5MHz
Low Channel**



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_5M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.88	-48.95	-13.00	-6.93	-42.88	Peak

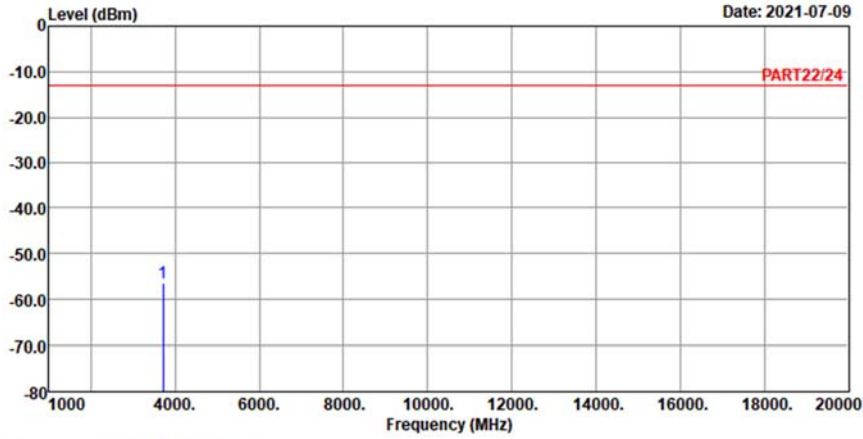


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 2 QPSK_5M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3705.00 -56.34 -49.41 -13.00 -6.93 -43.34 Peak

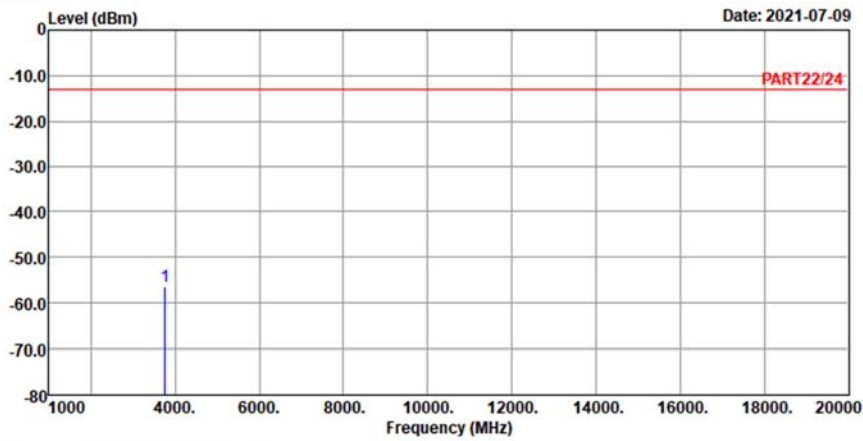
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_5M Link_M-CH
 Tested by: Cookie Ku

Read	Limit	Over	Remark				
Level	Level	Limit	Factor	Limit			
dBm	dBm	dBm	dB	dB			
1 pp	3760.00	-56.25	-49.60	-13.00	-6.65	-43.25	Peak

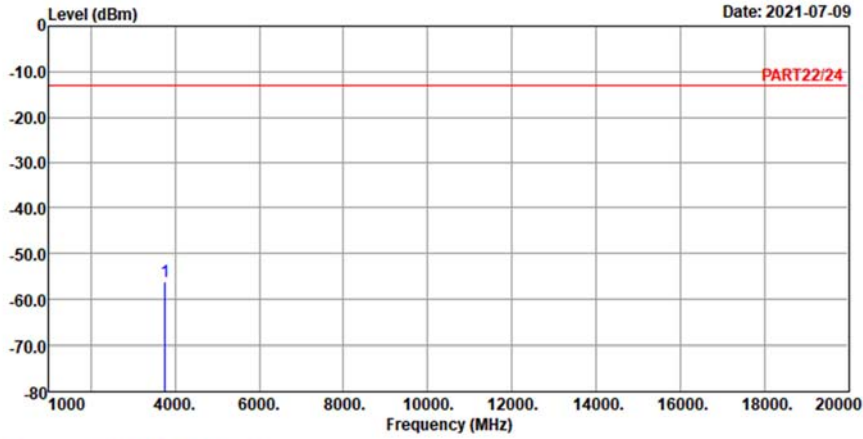


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 2 QPSK_5M Link_M-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3760.00 -56.02 -49.37 -13.00 -6.65 -43.02 Peak

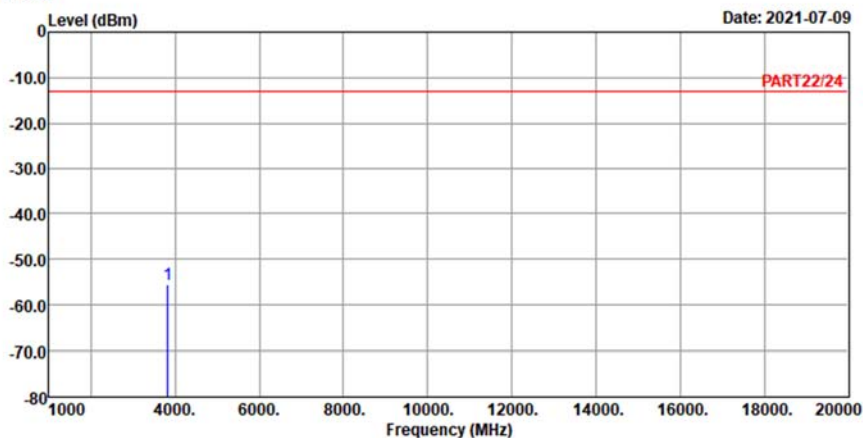
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_5M Link_H-CH
 Tested by: Cookie Ku

Read	Limit	Over	Remark	
Level	Level	Limit	Factor	Limit
dBm	dBm	dBm	dB	dB
1 pp 3815.00 -55.58	-49.18	-13.00	-6.40	-42.58 Peak

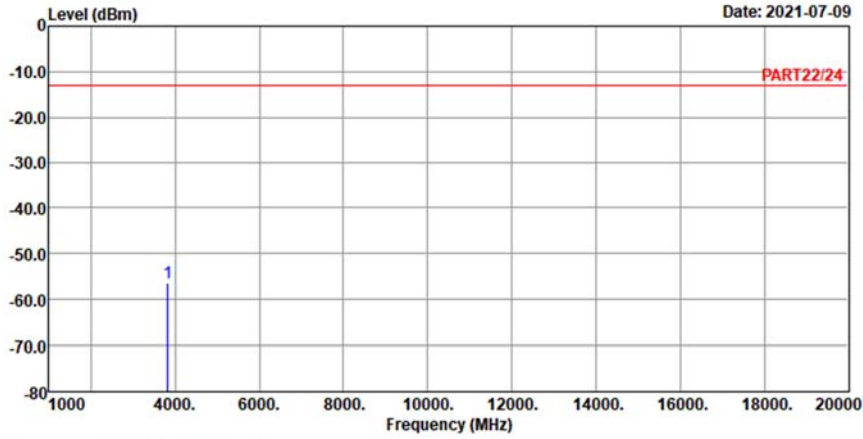


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 2 QPSK_5M Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3815.00 -56.24 -49.84 -13.00 -6.40 -43.24 Peak

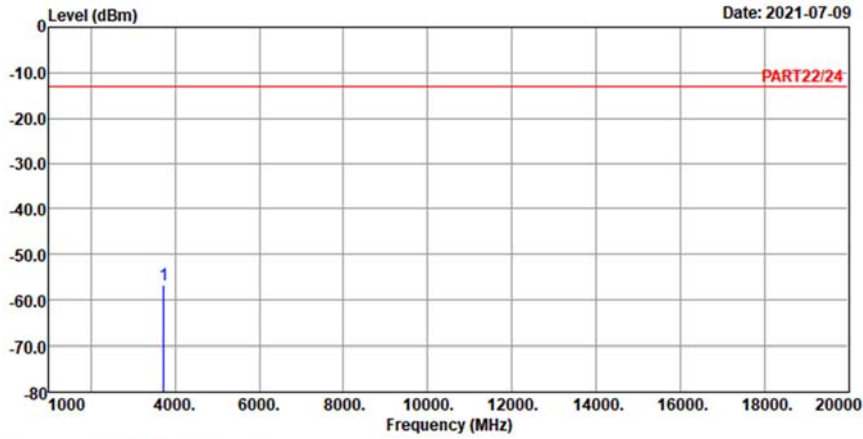
**Cat-M1 Band 2, Channel Bandwidth 20MHz
Low Channel**



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_20M Link_L-CH
 Tested by: Cookie Ku

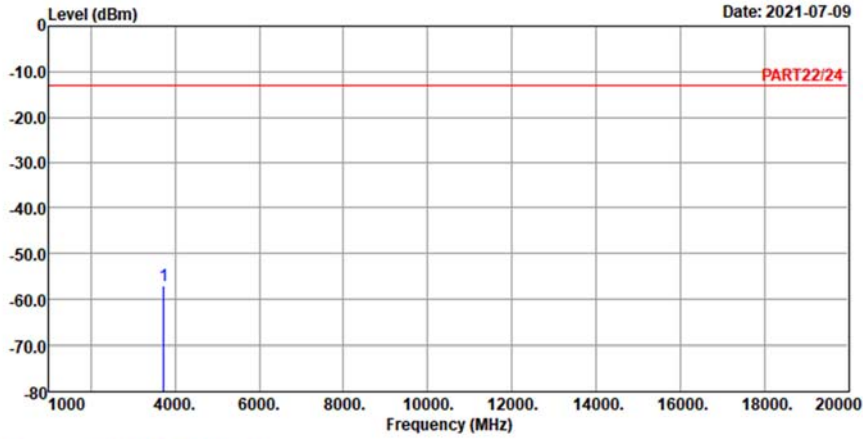
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-56.78	-49.96	-13.00	-6.82	-43.78	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 2 QPSK_20M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit	Line	Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	dB	

1 pp 3720.00 -57.04 -50.22 -13.00 -6.82 -44.04 Peak

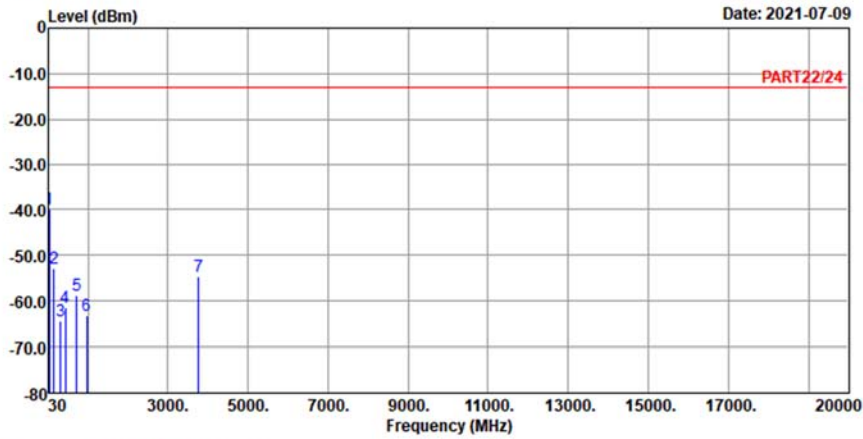
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_20M Link_M-CH
 Tested by: Cookie Ku

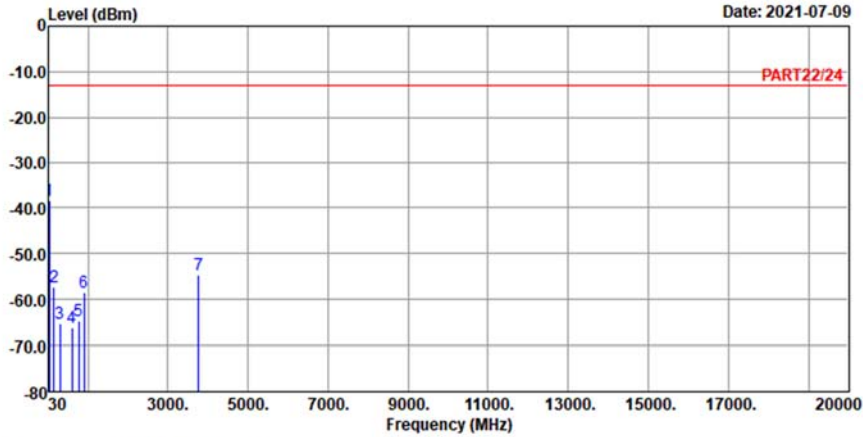
	Read	Limit	Over			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	41.64	-39.83	-39.42	-13.00	-0.41	-26.83 Peak
2	158.04	-52.89	-47.50	-13.00	-5.39	-39.89 Peak
3	315.18	-64.34	-57.56	-13.00	-6.78	-51.34 Peak
4	443.22	-61.46	-55.86	-13.00	-5.60	-48.46 Peak
5	712.88	-58.66	-58.81	-13.00	0.15	-45.66 Peak
6	965.08	-63.31	-65.66	-13.00	2.35	-50.31 Peak
7	3760.00	-54.55	-47.90	-13.00	-6.65	-41.55 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 2 QPSK_20M Link_M-CH
 Tested by: Cookie Ku

	Read	Limit	Over				
Freq	Level	Level	Line	Factor	Limit	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1 pp	36.79	-38.27	-37.28	-13.00	-0.99	-25.27	Peak
2	158.04	-57.24	-51.85	-13.00	-5.39	-44.24	Peak
3	305.48	-65.20	-58.28	-13.00	-6.92	-52.20	Peak
4	599.39	-66.23	-65.44	-13.00	-0.79	-53.23	Peak
5	771.08	-64.66	-65.48	-13.00	0.82	-51.66	Peak
6	910.76	-58.52	-59.36	-13.00	0.84	-45.52	Peak
7	3760.00	-54.51	-47.86	-13.00	-6.65	-41.51	Peak

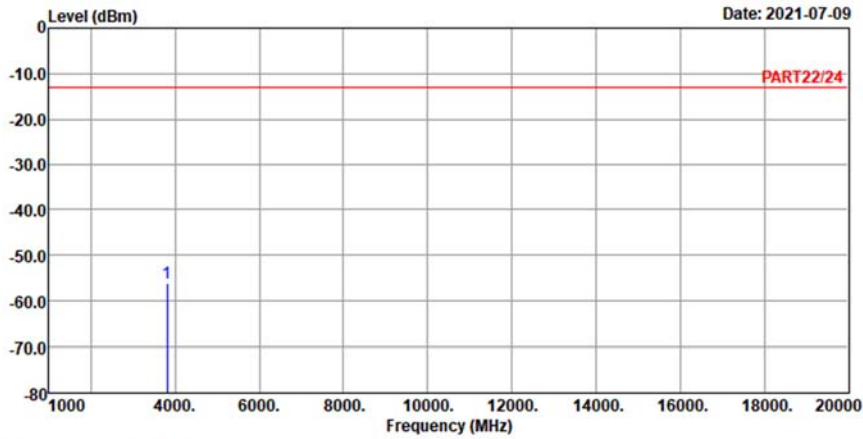
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 2 QPSK_20M Link_H-CH
 Tested by: Cookie Ku

Read	Limit	Over	Remark			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3800.00	-56.20	-49.77	-13.00	-6.43	-43.20	Peak

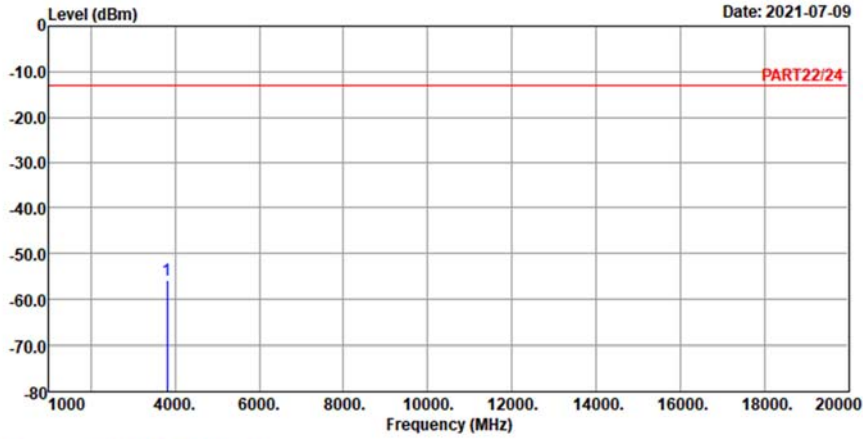


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 2 QPSK_20M Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3800.00 -55.71 -49.28 -13.00 -6.43 -42.71 Peak

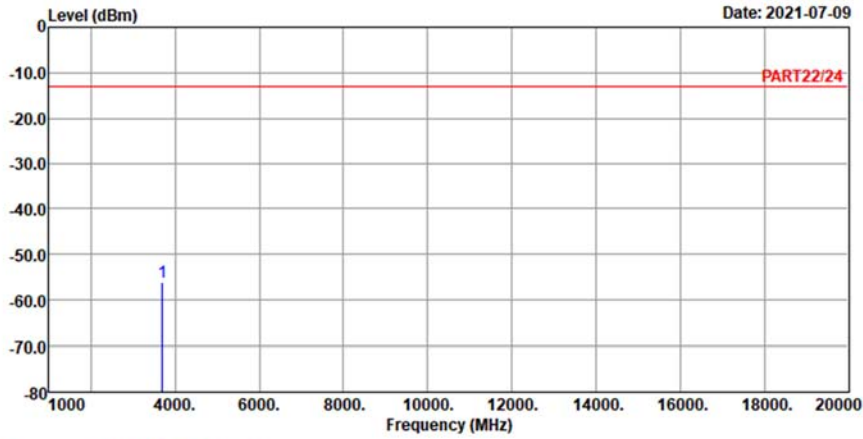
**Cat-M1 Band 25, Channel Bandwidth 1.4MHz
Low Channel**



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_1.4M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

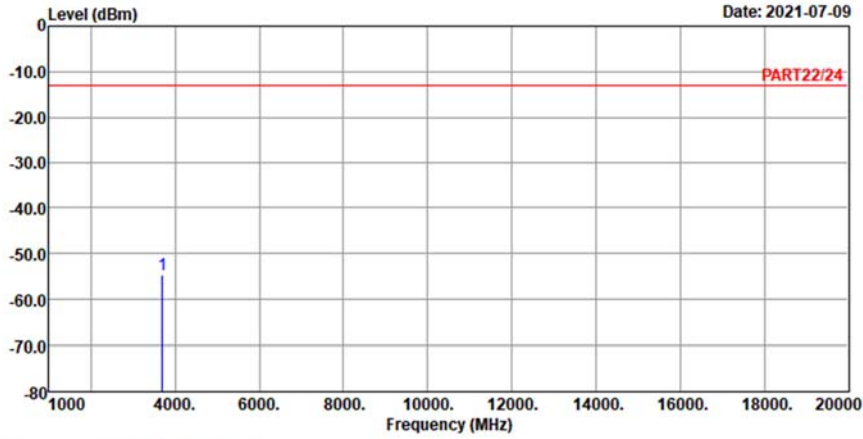
1 pp 3701.40 -56.14 -49.21 -13.00 -6.93 -43.14 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 25 QPSK_1.4M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3701.40 -54.73 -47.80 -13.00 -6.93 -41.73 Peak

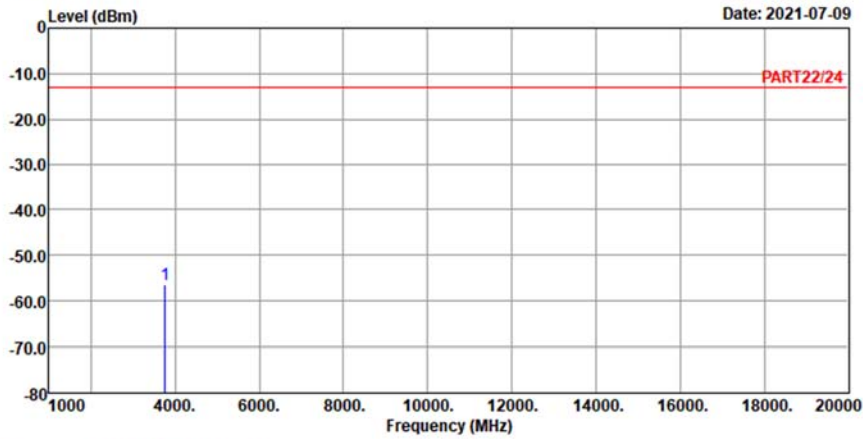
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_1.4M Link_M-CH
 Tested by: Cookie Ku

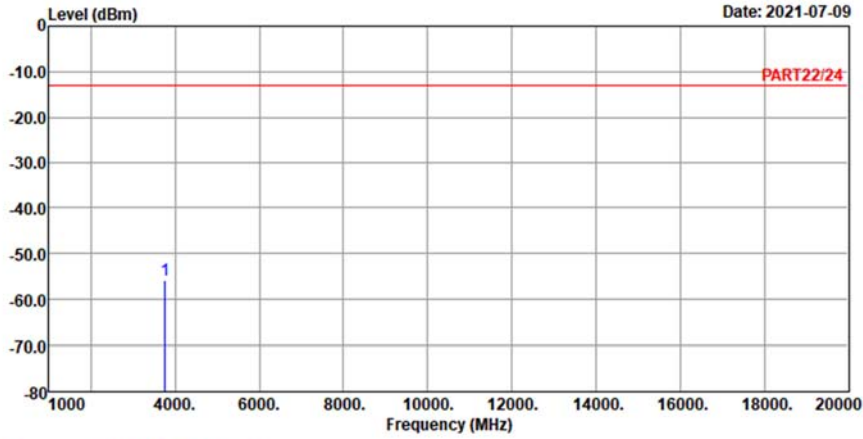
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-56.32	-49.72	-13.00	-6.60	-43.32	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 25 QPSK_1.4M Link_M-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3765.00 -55.86 -49.26 -13.00 -6.60 -42.86 Peak

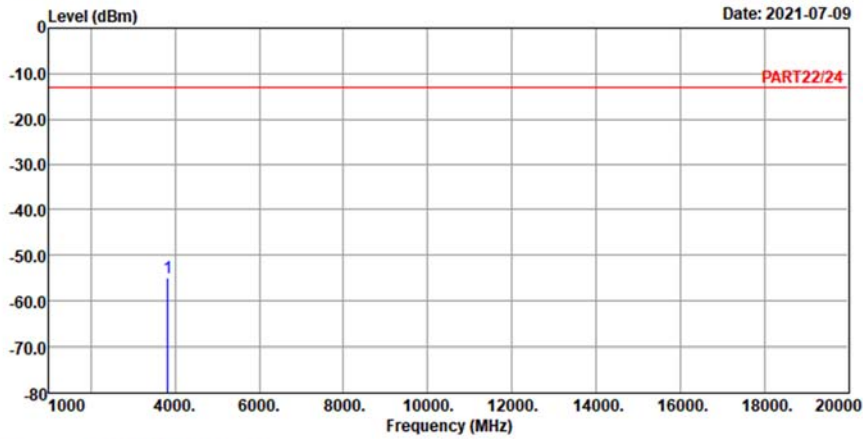
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_1.4M Link_H-CH
 Tested by: Cookie Ku

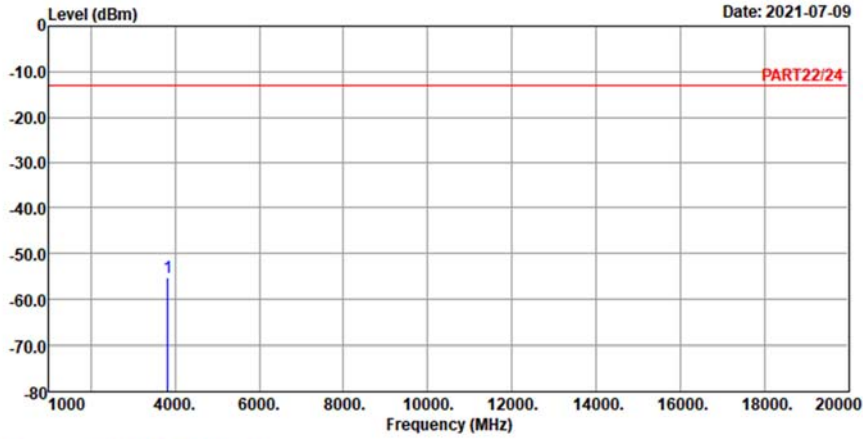
Read	Limit	Over		
Level	Level	Limit	Factor	Limit Remark
dBm	dBm	dBm	dB	dB
1 pp	3828.60	-54.96	-48.59	-13.00 -6.37 -41.96 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 25 QPSK_1.4M Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3828.60 -55.06 -48.69 -13.00 -6.37 -42.06 Peak

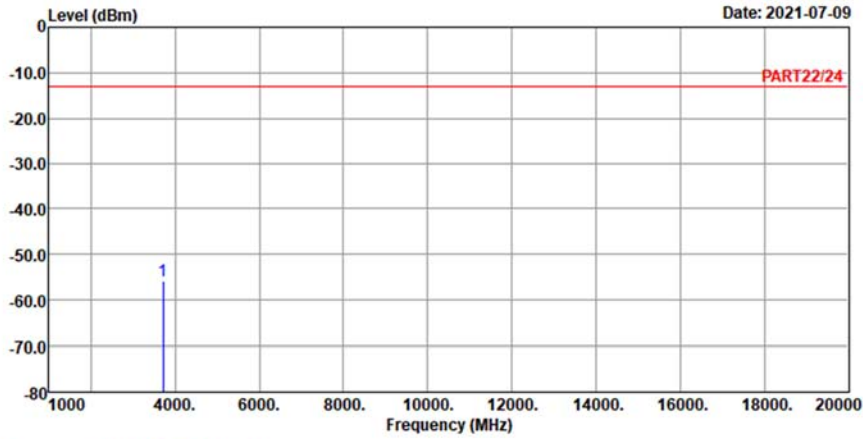
**Cat-M1 Band 25, Channel Bandwidth 5MHz
Low Channel**



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_5M Link_L-CH
 Tested by: Cookie Ku

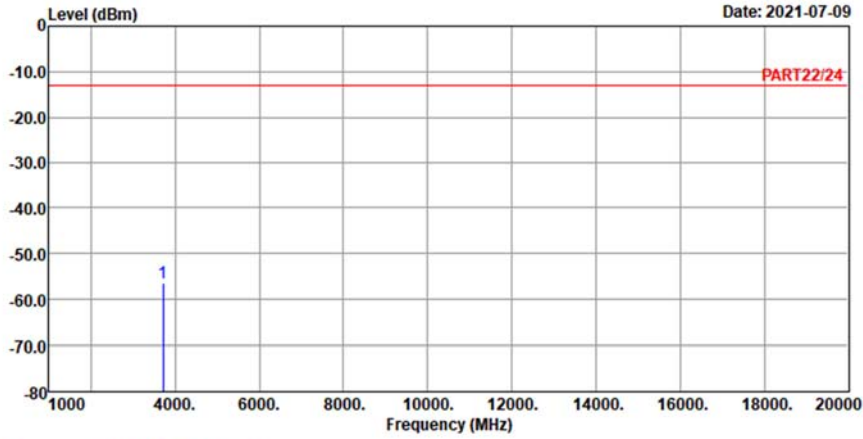
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-55.86	-48.93	-13.00	-6.93	-42.86	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 25 QPSK_5M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3705.00 -56.27 -49.34 -13.00 -6.93 -43.27 Peak

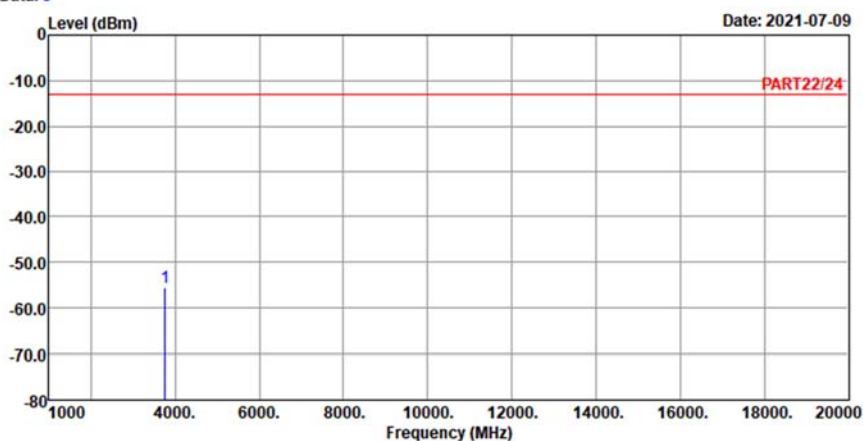
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_5M Link_M-CH
 Tested by: Cookie Ku

Read	Limit	Over	Remark				
Level	Level	Limit	Factor	Limit			
dBm	dBm	dBm	dB	dB			
1 pp	3765.00	-55.48	-48.88	-13.00	-6.60	-42.48	Peak

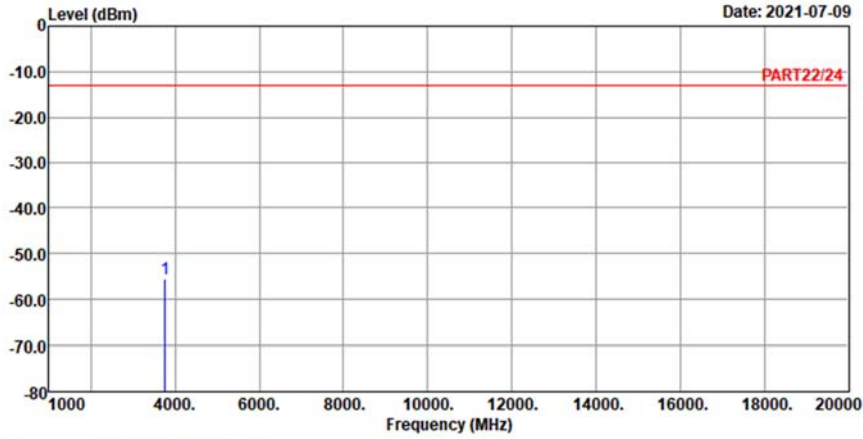


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 25 QPSK_5M Link_M-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3765.00 -55.60 -49.00 -13.00 -6.60 -42.60 Peak

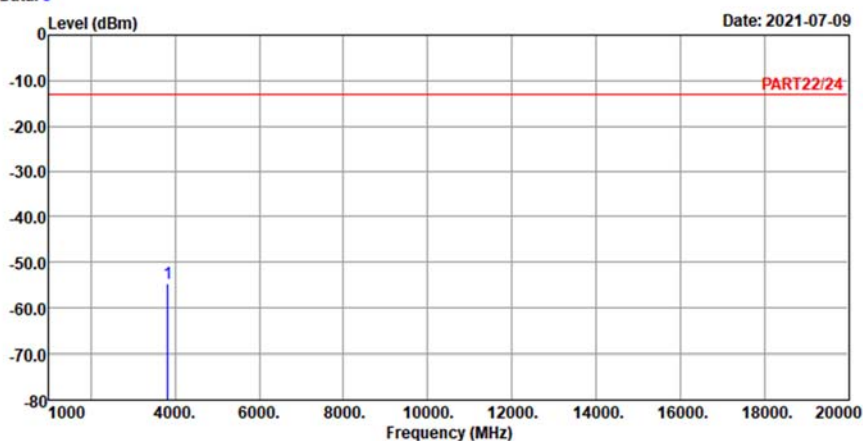
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_5M Link_H-CH
 Tested by: Cookie Ku

Read	Limit	Over	Remark	
Level	Level	Line	Factor	Limit
Freq	Level	Level	Factor	Limit
MHz	dBm	dBm	dB	dB
1 pp 3825.00	-54.65	-48.28	-13.00	-6.37 -41.65 Peak

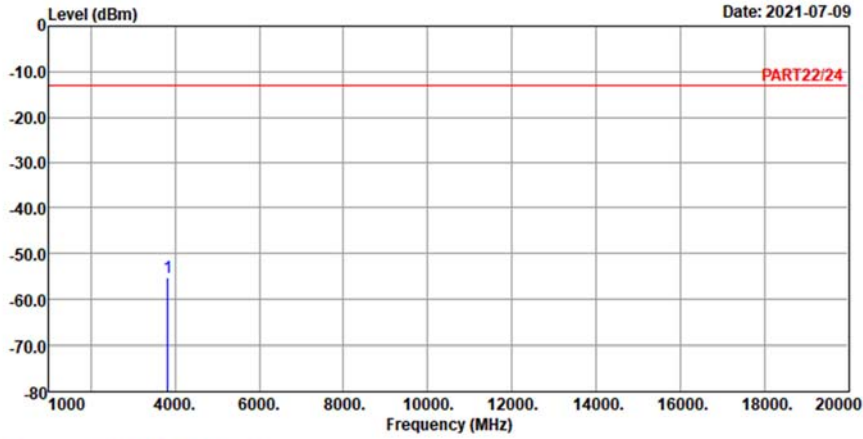


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-07-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 25 QPSK_5M Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3825.00 -55.32 -48.95 -13.00 -6.37 -42.32 Peak

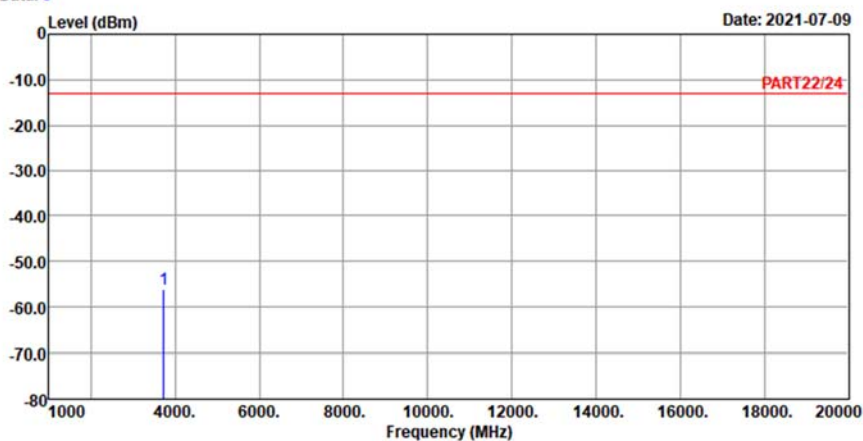
**Cat-M1 Band 25, Channel Bandwidth 20MHz
Low Channel**



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_20M Link_L-CH
 Tested by: Cookie Ku

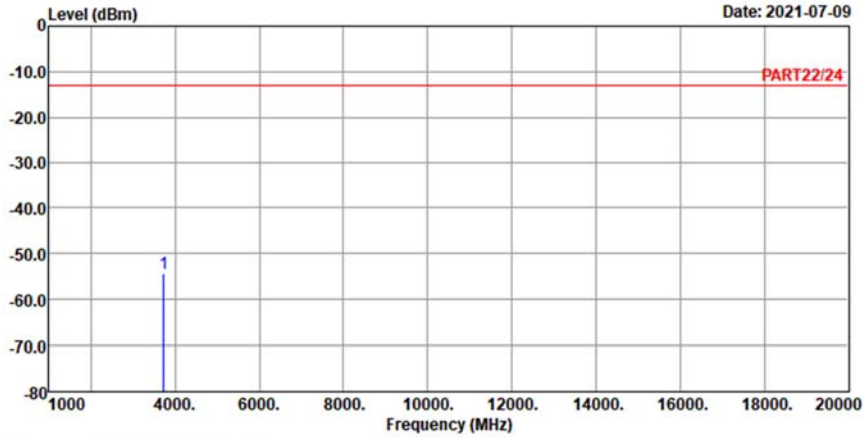
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-55.99	-49.17	-13.00	-6.82	-42.99	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 25 QPSK_20M Link_L-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit Level	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3720.00 -54.43 -47.61 -13.00 -6.82 -41.43 Peak

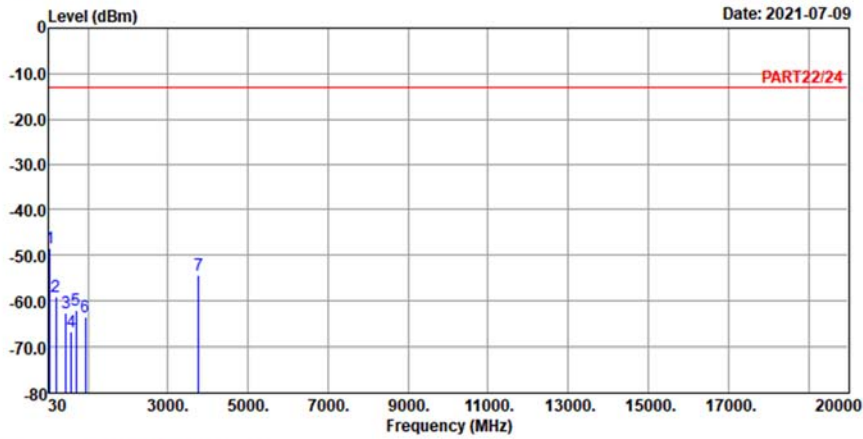
Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_20M Link_M-CH
 Tested by: Cookie Ku

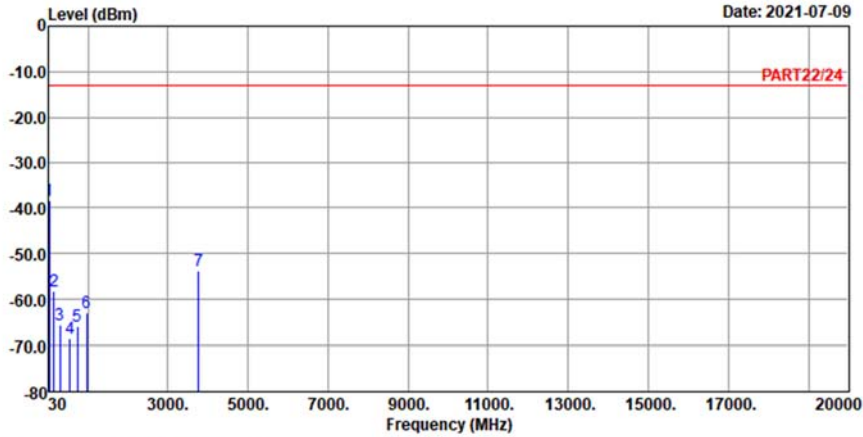
	Read	Limit	Over			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.58	-48.42	-46.95	-13.00	-1.47	-35.42 Peak
2	206.54	-59.05	-51.30	-13.00	-7.75	-46.05 Peak
3	453.89	-62.58	-57.10	-13.00	-5.48	-49.58 Peak
4	585.81	-66.64	-65.28	-13.00	-1.36	-53.64 Peak
5	709.00	-62.02	-62.09	-13.00	0.07	-49.02 Peak
6	936.95	-63.37	-64.86	-13.00	1.49	-50.37 Peak
7	3765.00	-54.43	-47.83	-13.00	-6.60	-41.43 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : Cat-M1 Band 25 QPSK_20M Link_M-CH
 Tested by: Cookie Ku

	Read	Limit	Over			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-38.48	-37.54	-13.00	-0.94	-25.48 Peak
2	156.10	-58.02	-52.08	-13.00	-5.94	-45.02 Peak
3	310.33	-65.59	-58.74	-13.00	-6.85	-52.59 Peak
4	547.98	-68.39	-65.47	-13.00	-2.92	-55.39 Peak
5	738.10	-65.96	-66.61	-13.00	0.65	-52.96 Peak
6	967.99	-62.76	-65.21	-13.00	2.45	-49.76 Peak
7	3765.00	-53.81	-47.21	-13.00	-6.60	-40.81 Peak

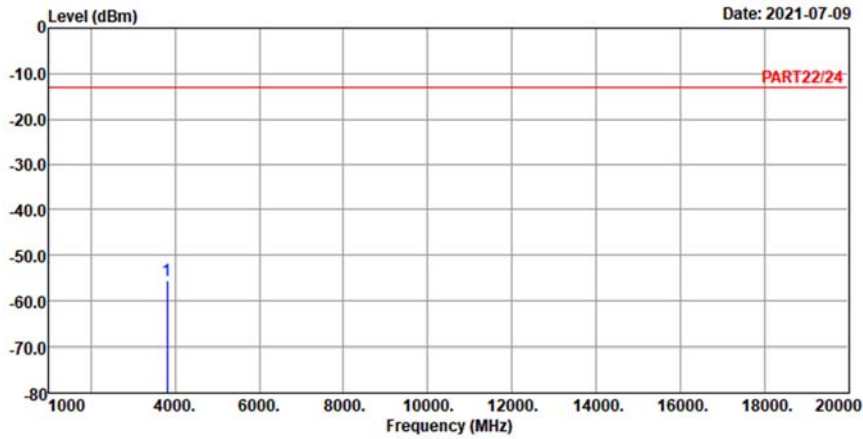
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : Cat-M1 Band 25 QPSK_20M Link_H-CH
 Tested by: Cookie Ku

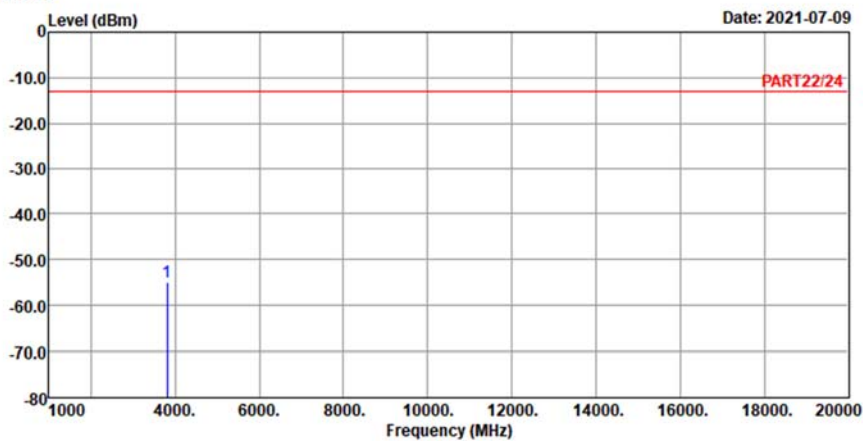
Read	Limit	Over	Remark	
Level	Level	Line	Factor	Limit
dBm	dBm	dBm	dB	dB
1 pp 3810.00 -55.57	-49.17	-13.00	-6.40	-42.57 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : Cat-M1 Band 25 QPSK_20M Link_H-CH
 Tested by: Cookie Ku

Freq	Level	Read Level	Limit	Line	Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	dB	

1 pp 3810.00 -54.83 -48.43 -13.00 -6.40 -41.83 Peak

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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