

Partial FCC Test Report

(PART 22)

Report No.: RF170822C16D

FCC ID: ZMOL850GL

Test Model: L850-GL

Received Date: Apr. 18, 2018

Test Date: May 25, 2018 ~ May 26, 2018

Issued Date: Jun. 27, 2018

Applicant: Fibocom Wireless Inc.

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

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Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

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



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Release Control Record

Issue No.	Description	Date Issued
RF170822C16D	Original Release	Jun. 27, 2018

1 Certificate of Conformity

Product: LTE module

Brand: Fibocom

Test Model: L850-GL

Sample Status: Production Unit

Applicant: Fibocom Wireless Inc.

Test Date: May 25, 2018 ~ May 26, 2018

Standards: FCC Part 22, Subpart H

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 : Rona Chen, **Date:** Jun. 27, 2018
Rona Chen / Specialist

Approved by : Dylan Chiou, **Date:** Jun. 27, 2018
Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective Radiated Power	Pass	Meet the requirement of limit.
---	Peak to Average Ratio	N/A	Refer to Note
2.1055 22.355	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
22.917	Band Edge Measurements	N/A	Refer to Note
2.1051 22.917	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -27.16 dB at 39.45 MHz.

Note:

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 to BV CPS report no.: RF170106C02 for module (Brand: Fibocom, Model: L850-GL)

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) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 16, 2018	Mar. 15, 2019
Spectrum Analyzer Agilent	N9010A	MY52220314	Nov. 24, 2017	Nov. 23, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 07, 2017	Jul. 06, 2018
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Preamplifier EMCI	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 184045	980116	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 330H	980112	Oct. 13, 2017	Oct. 12, 2018
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-80 00&3000	140811+170717	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 20, 2017	Oct. 19, 2018
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
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 28, 2017	Dec. 27, 2018
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 08, 2017	Sep. 07, 2018
DC Power Supply Topward	33010D	807748	Oct. 25, 2016	Oct. 24, 2018
Digital Multimeter Fluke	87-III	70360742	Jun. 30, 2017	Jun. 29, 2018
HORN Antenna Schwarzbeck	BBHA 9120D	9120D-969	Dec. 12, 2017	Dec. 11, 2018

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 10.
 3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
 4. The IC Site Registration No. is IC7450F-10.

3 General Information

3.1 General Description of EUT

Product	LTE module	
Brand	Fibocom	
Test Model	L850-GL	
Status of EUT	Production Unit	
Power Supply Rating	5.0 Vdc (Host equipment)	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	826.4 ~ 846.6 MHz
	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 26 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 26 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 26 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 15 MHz)	831.5 ~ 841.5 MHz
Max. ERP Power	WCDMA	147.23 mW
	LTE 5 (Channel Bandwidth: 1.4 MHz)	120.78 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	129.72 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	138.68 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	148.59 mW
	LTE 26 (Channel Bandwidth: 1.4 MHz)	114.55 mW
	LTE 26 (Channel Bandwidth: 3 MHz)	123.31 mW
	LTE 26 (Channel Bandwidth: 5 MHz)	131.83 mW
	LTE 26 (Channel Bandwidth: 10 MHz)	140.60 mW
	LTE 26 (Channel Bandwidth: 15 MHz)	151.01 mW
Antenna Type	Refer to Note as below	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

- The EUT is authorized for use in specific End-product. Please refer to below table for more details.

Product	Brand	Model
Convertible PC	Lenovo	TP00078C

- The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	Lenovo	ADLX65NDC3A	I/P: 100-240 Vac, 50-60 Hz, 1.5 A O/P: 20 Vdc, 3.25 A
Battery	Lenovo	SB10K97589	15.2 Vdc, 3260 mAh

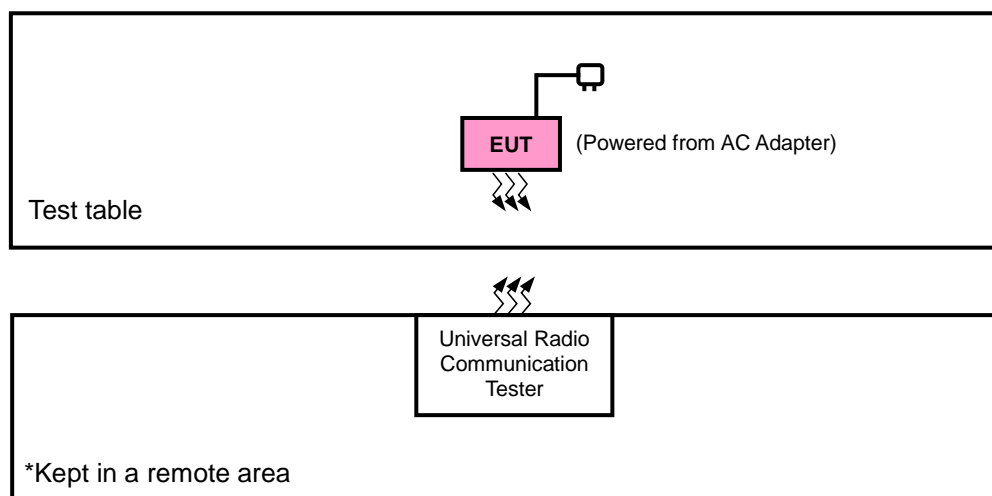
3. The information of antenna of End-product is listed as below.

Antenna Type	Manufacturer	Part No.	Antenna Gain (dBi)
PIFA	HUA CHENG TECHNOLOGY Co., Ltd	Main Antenna: DC33001WM60 Aux. Antenna: DC33001WM10 (Rx only)	-2.23

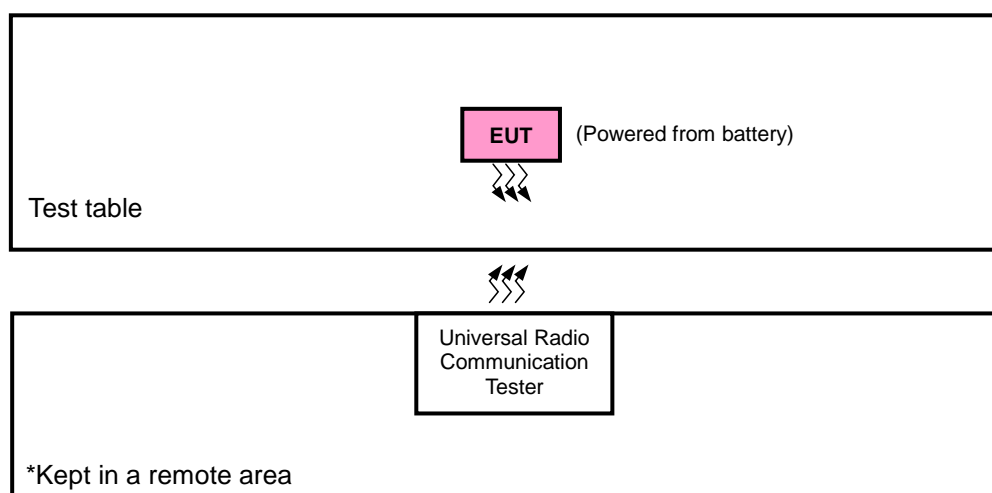
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.R.P. Test>



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.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Communications Tester-Wireless	Agilent	8960 Series 10	MY53201073	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items 1 acted as communication partners to transfer data.

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 & NB Mode, 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	ERP	Radiated Emission
WCDMA	Z-plane	Y-axis
LTE Band 5	Y-plane	Y-axis
LTE Band 26	Y-plane	NB Mode

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
-	Radiated Emission	4132 to 4233	4132, 4182, 4233	WCDMA

LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 2 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 7 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
-	Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK	1 RB / 2 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK	1 RB / 12 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK	1 RB / 24 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	26797 to 27033	26797, 26915, 27033	1.4 MHz	QPSK, 16QAM	1 RB / 5 RB Offset
		26805 to 27025	26805, 26915, 27025	3 MHz	QPSK, 16QAM	1 RB / 14 RB Offset
		26815 to 27015	26815, 26915, 27015	5 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
-	Radiated Emission	26797 to 27033	26797, 26915, 27033	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5 MHz	QPSK	25 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK	25 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	5 Vdc	Getaz Yang
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang Jisysong Wang

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

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

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

Note: 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 7 watts e.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, and 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dB}$.

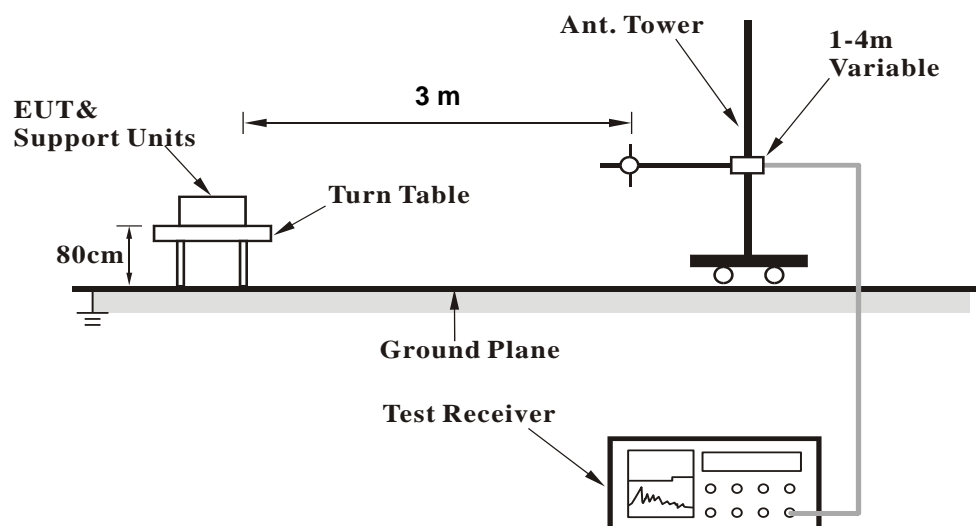
Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE 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.

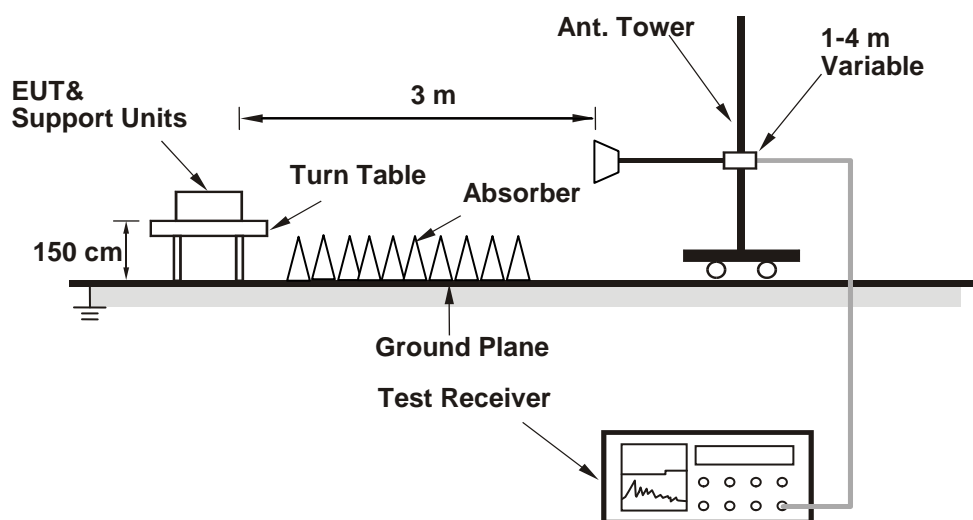
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

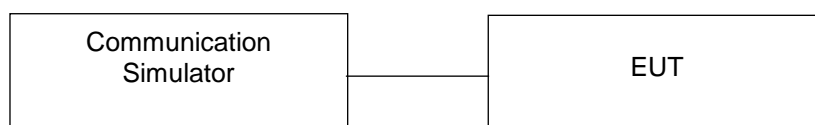


<Radiated Emission above 1 GHz>



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

Conducted Power Measurement:



4.1.4 Test Results

ERP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	4132	826.4	-12.37	32.62	18.10	64.57	H
	4182	836.4	-11.94	32.52	18.43	69.66	
	4233	846.6	-12.49	32.65	18.01	63.24	
	4132	826.4	-9.10	32.76	21.51	141.58	V
	4182	836.4	-8.56	32.39	21.68	147.23	
	4233	846.6	-9.36	32.54	21.03	126.77	

LTE Band 5							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20407	824.7	-11.46	32.62	19.01	79.62	H
	20525	836.5	-12.10	32.52	18.27	67.14	
	20643	848.3	-11.81	32.65	18.69	73.96	
	20407	824.7	-9.79	32.76	20.82	120.78	V
	20525	836.5	-9.85	32.39	20.39	109.40	
	20643	848.3	-9.81	32.54	20.58	114.29	
Channel Bandwidth: 1.4 MHz / 16QAM							
Y	20407	824.7	-13.57	32.62	16.90	48.98	H
	20525	836.5	-14.21	32.52	16.16	41.30	
	20643	848.3	-13.92	32.65	16.58	45.50	
	20407	824.7	-10.90	32.76	19.71	93.54	V
	20525	836.5	-10.96	32.39	19.28	84.72	
	20643	848.3	-10.92	32.54	19.47	88.51	

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20415	825.5	-12.15	32.62	18.32	67.92	H
	20525	836.5	-12.79	32.52	17.58	57.28	
	20635	847.5	-12.50	32.65	18.00	63.10	
	20415	825.5	-9.48	32.76	21.13	129.72	V
	20525	836.5	-9.54	32.39	20.70	117.49	
	20635	847.5	-9.50	32.54	20.89	122.74	
Channel Bandwidth: 3 MHz / 16QAM							
Y	20415	825.5	-13.24	32.62	17.23	52.84	H
	20525	836.5	-13.88	32.52	16.49	44.57	
	20635	847.5	-13.59	32.65	16.91	49.09	
	20415	825.5	-10.57	32.76	20.04	100.93	V
	20525	836.5	-10.63	32.39	19.61	91.41	
	20635	847.5	-10.59	32.54	19.80	95.50	

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20425	826.5	-11.86	32.62	18.61	72.61	H
	20525	836.5	-12.50	32.52	17.87	61.24	
	20625	846.5	-12.21	32.65	18.29	67.45	
	20425	826.5	-9.19	32.76	21.42	138.68	V
	20525	836.5	-9.25	32.39	20.99	125.60	
	20625	846.5	-9.21	32.54	21.18	131.22	
Channel Bandwidth: 5 MHz / 16QAM							
Y	20425	826.5	-12.83	32.62	17.64	58.08	H
	20525	836.5	-13.47	32.52	16.90	48.98	
	20625	846.5	-13.18	32.65	17.32	53.95	
	20425	826.5	-10.16	32.76	20.45	110.92	V
	20525	836.5	-10.22	32.39	20.02	100.46	
	20625	846.5	-10.18	32.54	20.21	104.95	

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	20450	829.0	-11.56	32.62	18.91	77.80	H
	20525	836.5	-12.20	32.52	18.17	65.61	
	20600	844.0	-11.91	32.65	18.59	72.28	
	20450	829.0	-8.89	32.76	21.72	148.59	V
	20525	836.5	-8.95	32.39	21.29	134.59	
	20600	844.0	-8.91	32.54	21.48	140.60	
Channel Bandwidth: 10 MHz / 16QAM							
Y	20425	826.5	-12.57	32.62	17.90	61.66	H
	20525	836.5	-13.21	32.52	17.16	52.00	
	20625	846.5	-12.92	32.65	17.58	57.28	
	20425	826.5	-9.90	32.76	20.71	117.76	V
	20525	836.5	-9.96	32.39	20.28	106.66	
	20625	846.5	-9.92	32.54	20.47	111.43	

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26797	824.7	-12.62	32.62	17.85	60.95	H
	26915	836.5	-12.86	32.52	17.51	56.36	
	27033	848.3	-13.28	32.65	17.22	52.72	
	26797	824.7	-10.02	32.76	20.59	114.55	V
	26915	836.5	-9.86	32.39	20.38	109.14	
	27033	848.3	-10.30	32.54	20.09	102.09	
Channel Bandwidth: 1.4 MHz / 16QAM							
Y	26797	824.7	-13.73	32.62	16.74	47.21	H
	26915	836.5	-13.97	32.52	16.40	43.65	
	27033	848.3	-14.39	32.65	16.11	40.83	
	26797	824.7	-11.13	32.76	19.48	88.72	V
	26915	836.5	-10.97	32.39	19.27	84.53	
	27033	848.3	-11.41	32.54	18.98	79.07	

LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26805	825.5	-12.30	32.62	18.17	65.61	H
	26915	836.5	-12.54	32.52	17.83	60.67	
	27025	847.5	-12.96	32.65	17.54	56.75	
	26805	825.5	-9.70	32.76	20.91	123.31	V
	26915	836.5	-9.54	32.39	20.70	117.49	
	27025	847.5	-9.98	32.54	20.41	109.90	
Channel Bandwidth: 3 MHz / 16QAM							
Y	26805	825.5	-13.28	32.62	17.19	52.36	H
	26915	836.5	-13.52	32.52	16.85	48.42	
	27025	847.5	-13.94	32.65	16.56	45.29	
	26805	825.5	-10.68	32.76	19.93	98.40	V
	26915	836.5	-10.52	32.39	19.72	93.76	
	27025	847.5	-10.96	32.54	19.43	87.70	

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26815	826.5	-12.01	32.62	18.46	70.15	H
	26915	836.5	-12.25	32.52	18.12	64.86	
	27015	846.5	-12.67	32.65	17.83	60.67	
	26815	826.5	-9.41	32.76	21.20	131.83	V
	26919	836.5	-9.25	32.39	20.99	125.60	
	27015	846.5	-9.69	32.54	20.70	117.49	
Channel Bandwidth: 5 MHz / 16QAM							
Y	26815	826.5	-13.04	32.62	17.43	55.34	H
	26915	836.5	-13.28	32.52	17.09	51.17	
	27015	846.5	-13.70	32.65	16.80	47.86	
	26815	826.5	-10.44	32.76	20.17	103.99	V
	26919	836.5	-10.28	32.39	19.96	99.08	
	27015	846.5	-10.72	32.54	19.67	92.68	

LTE Band 26							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26840	829.0	-11.73	32.62	18.74	74.82	H
	26915	836.5	-11.97	32.52	18.40	69.18	
	26990	844.0	-12.39	32.65	18.11	64.71	
	26840	829.0	-9.13	32.76	21.48	140.60	V
	26919	836.5	-8.97	32.39	21.27	133.97	
	26990	844.0	-9.41	32.54	20.98	125.31	
Channel Bandwidth: 10 MHz / 16QAM							
Y	26840	829.0	-12.72	32.62	17.75	59.57	H
	26915	836.5	-12.96	32.52	17.41	55.08	
	26990	844.0	-13.38	32.65	17.12	51.52	
	26840	829.0	-10.12	32.76	20.49	111.94	V
	26919	836.5	-9.96	32.39	20.28	106.66	
	26990	844.0	-10.40	32.54	19.99	99.77	

LTE Band 26							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26865	831.5	-11.42	32.62	19.05	80.35	H
	26915	836.5	-11.66	32.52	18.71	74.30	
	26965	841.5	-12.08	32.65	18.42	69.50	
	26865	831.5	-8.82	32.76	21.79	151.01	V
	26915	836.5	-8.66	32.39	21.58	143.88	
	26965	841.5	-9.10	32.54	21.29	134.59	
Channel Bandwidth: 15 MHz / 16QAM							
Y	26865	831.5	-12.43	32.62	18.04	63.68	H
	26915	836.5	-12.67	32.52	17.70	58.88	
	26965	841.5	-13.09	32.65	17.41	55.08	
	26865	831.5	-9.83	32.76	20.78	119.67	V
	26915	836.5	-9.67	32.39	20.57	114.02	
	26965	841.5	-10.11	32.54	20.28	106.66	

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 is equal to -13 dBm.

4.2.2 Test Procedure

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dB}.$

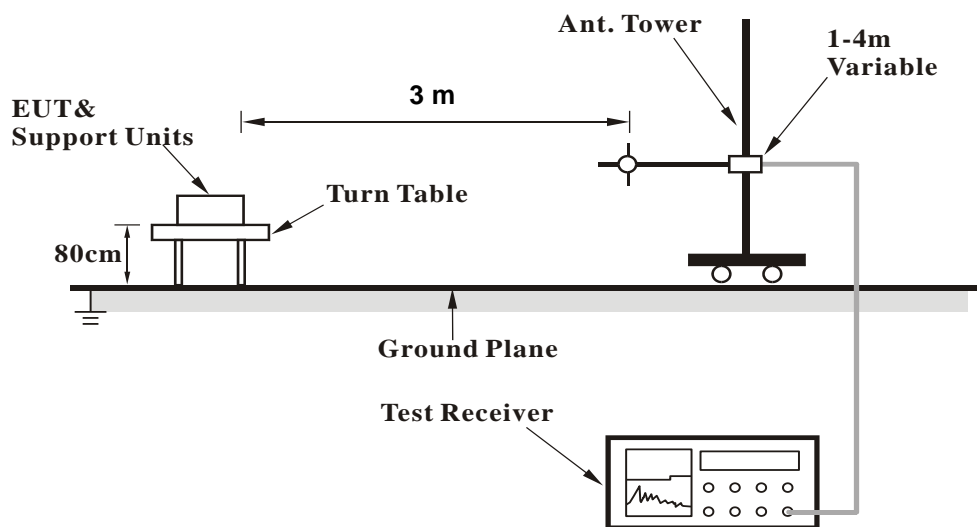
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

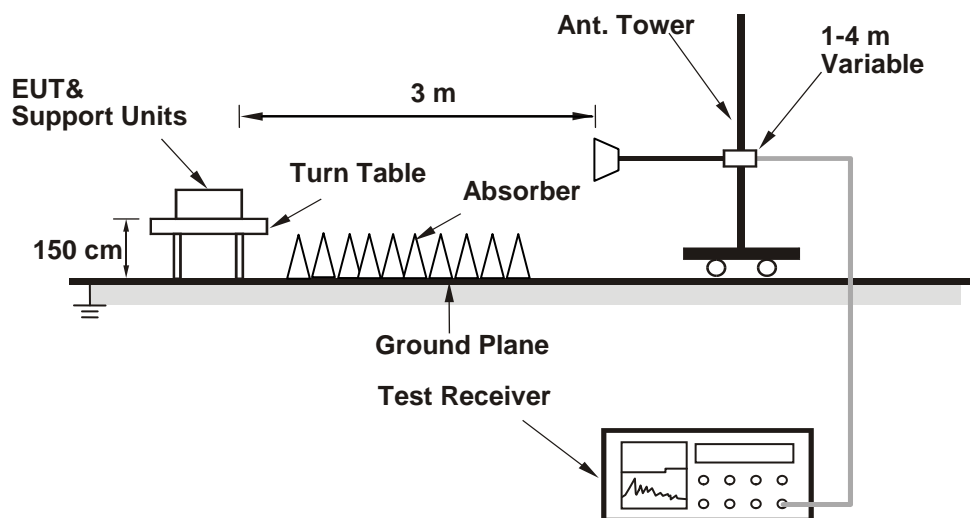
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

WCDMA:

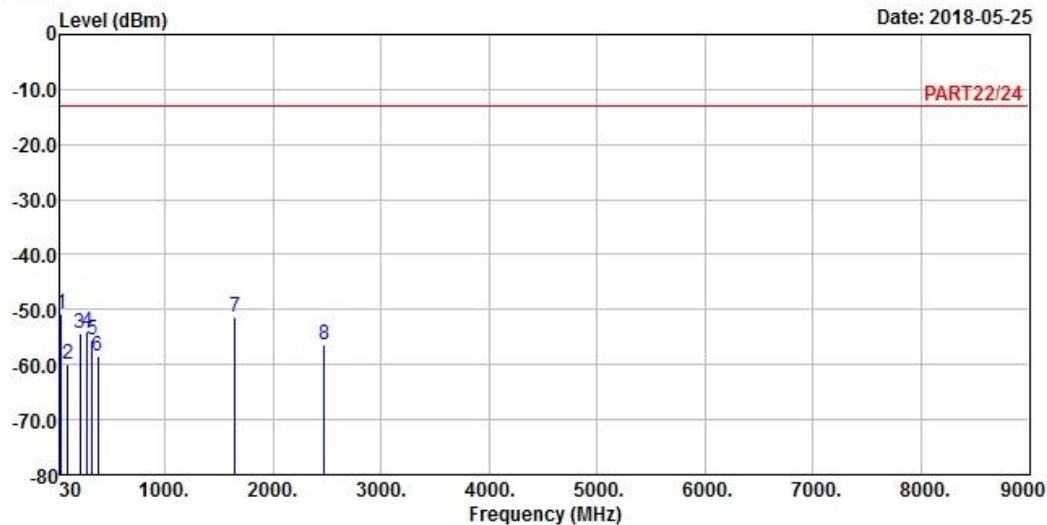
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : WCDMA Band V Link_L-CH

Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.96	-50.69	-49.75	-13.00	-37.69	-0.94	Peak
2	97.50	-59.97	-49.30	-13.00	-46.97	-10.67	Peak
3	211.98	-54.38	-46.87	-13.00	-41.38	-7.51	Peak
4	278.40	-54.07	-47.50	-13.00	-41.07	-6.57	Peak
5	323.80	-55.58	-48.94	-13.00	-42.58	-6.64	Peak
6	374.90	-58.43	-52.34	-13.00	-45.43	-6.09	Peak
7	1649.40	-51.41	-37.67	-13.00	-38.41	-13.74	Peak
8	2474.10	-56.51	-46.49	-13.00	-43.51	-10.02	Peak

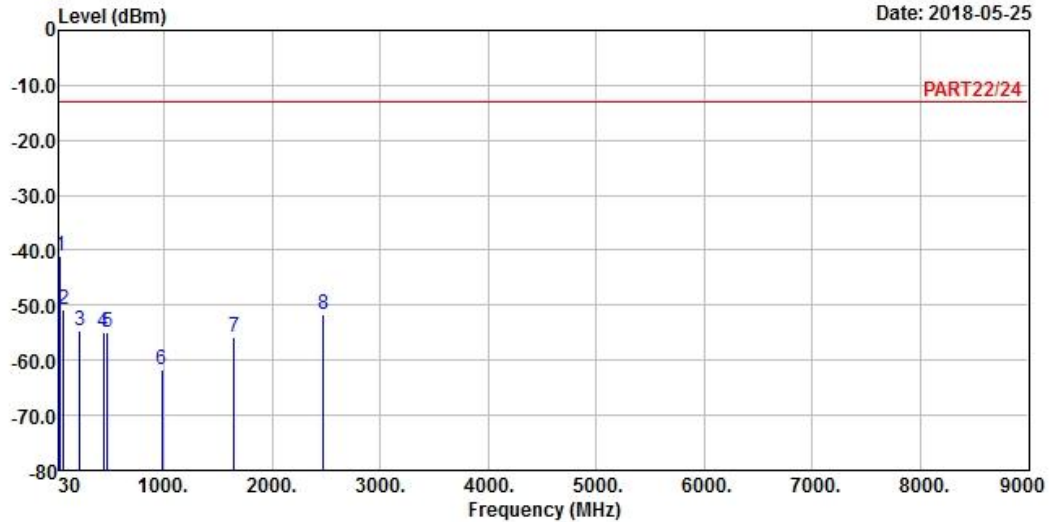


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2018-05-25



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : WCDMA Band V Link_L-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	39.18	-41.08	-41.18	-13.00	-28.08	0.10	Peak
2	67.53	-50.65	-42.40	-13.00	-37.65	-8.25	Peak
3	218.73	-54.75	-47.51	-13.00	-41.75	-7.24	Peak
4	437.20	-54.89	-49.24	-13.00	-41.89	-5.65	Peak
5	475.70	-54.97	-49.89	-13.00	-41.97	-5.08	Peak
6	976.20	-61.55	-64.27	-13.00	-48.55	2.72	Peak
7	1649.40	-55.85	-42.11	-13.00	-42.85	-13.74	Peak
8	2474.10	-51.73	-41.71	-13.00	-38.73	-10.02	Peak

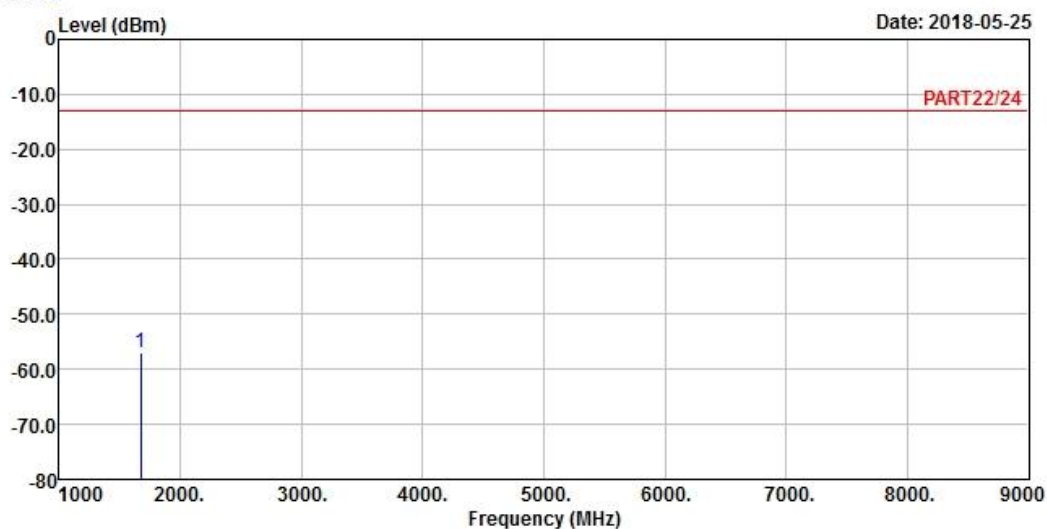
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : WCDMA Band V Link_M-CH
 Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1672.80	-56.91	-43.01	-13.00	-43.91	-13.90	Peak

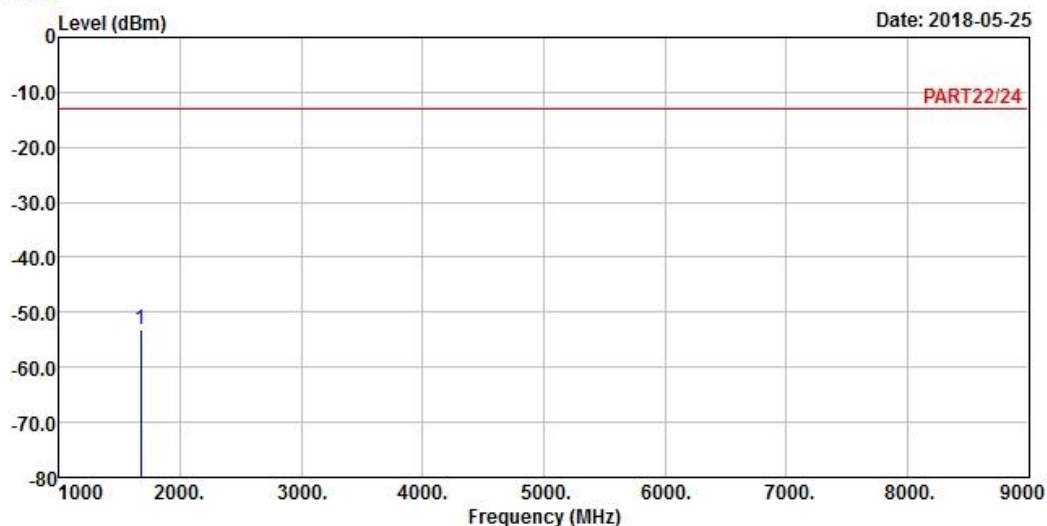


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2018-05-25



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : WCDMA Band V Link_M-CH
Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1672.80	-52.99	-39.09	-13.00	-39.99	-13.90	Peak

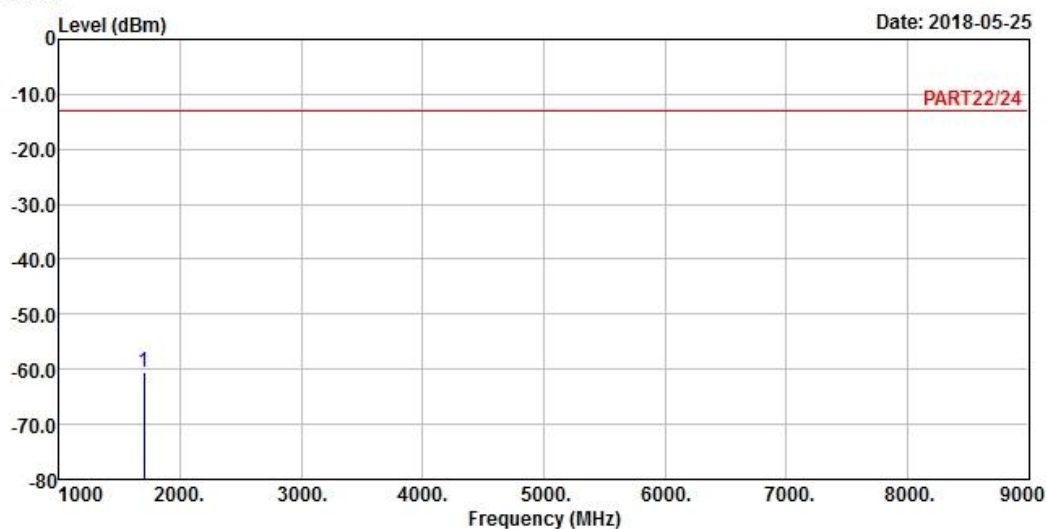
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : WCDMA Band V Link_H-CH
Tested by: Jisyong Wang

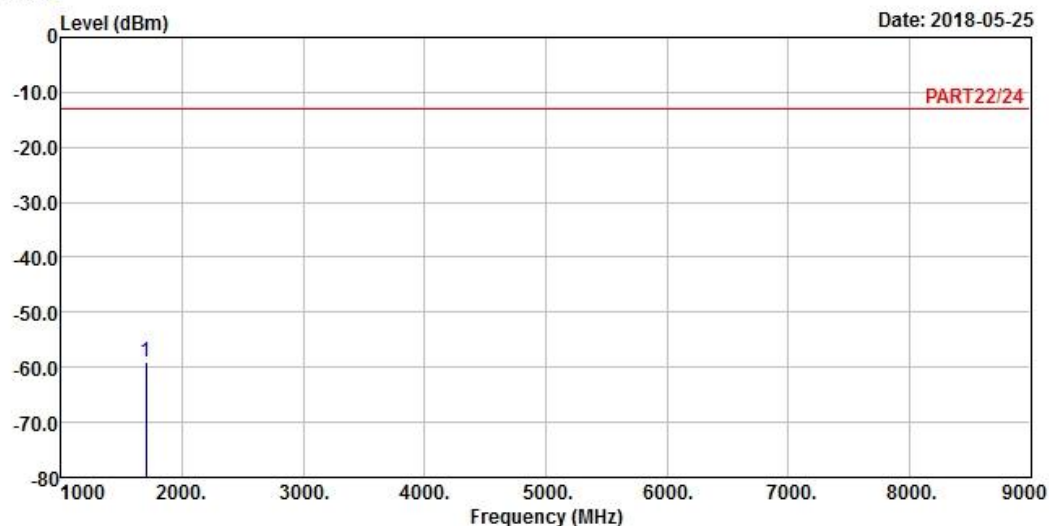
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1696.62	-60.47	-46.45	-13.00	-47.47	-14.02	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : WCDMA Band V Link_H-CH
 Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1696.62	-59.18	-45.16	-13.00	-46.18	-14.02	Peak

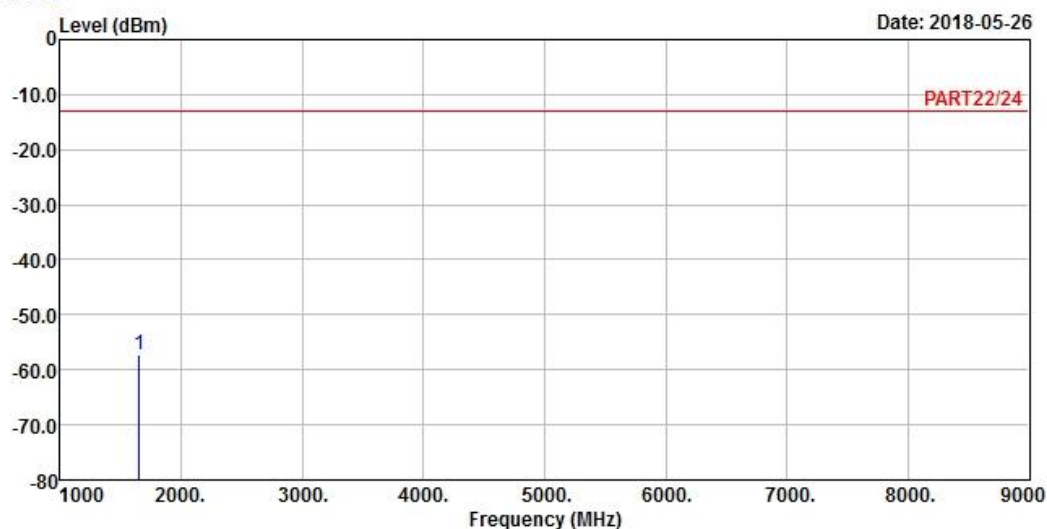
LTE Band 5
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_1.4M Link_L-CH
Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1649.40	-57.31	-43.57	-13.00	-44.31	-13.74	Peak

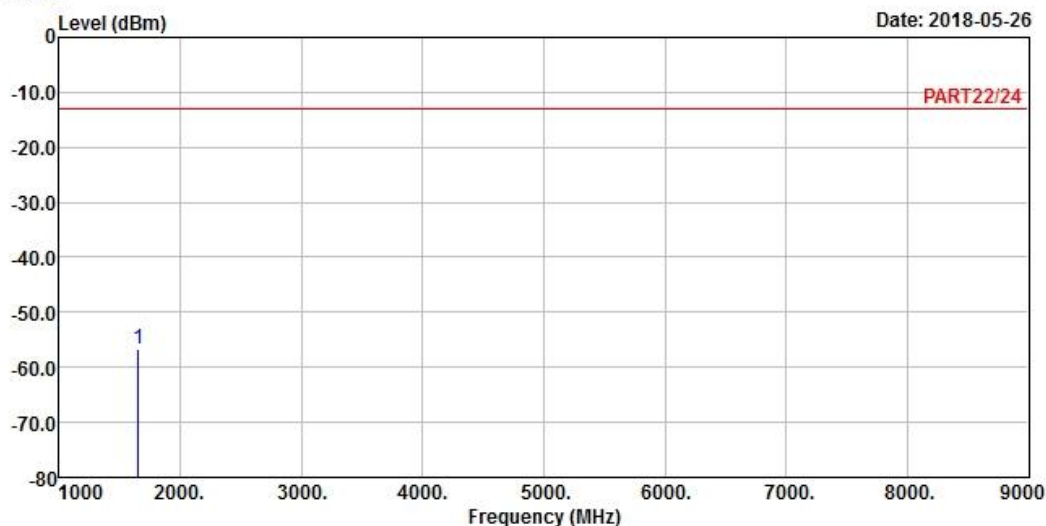


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2018-05-26



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_1.4M Link_L-CH

Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1649.40	-56.72	-42.98	-13.00	-43.72	-13.74	Peak

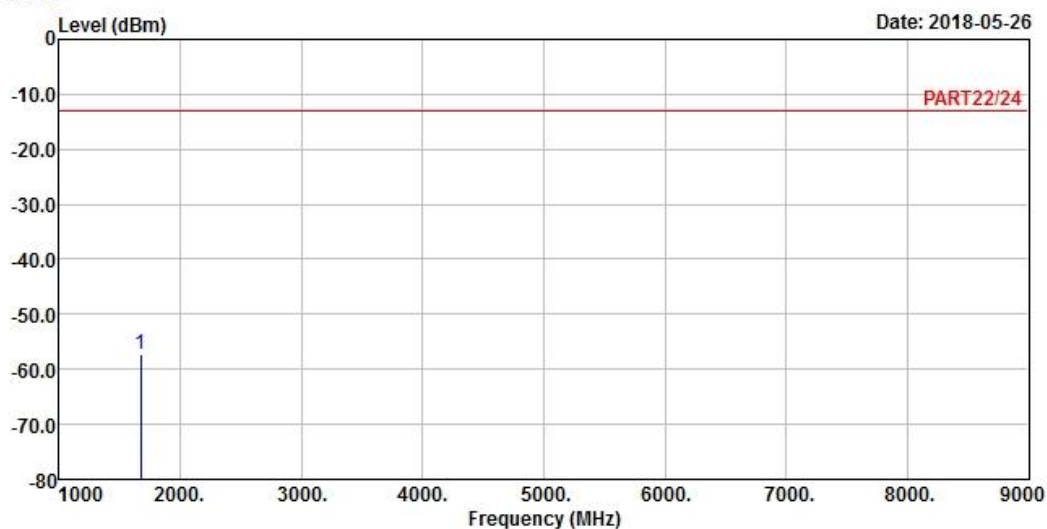
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_1.4M Link_M-CH
Tested by: Getaz Yang

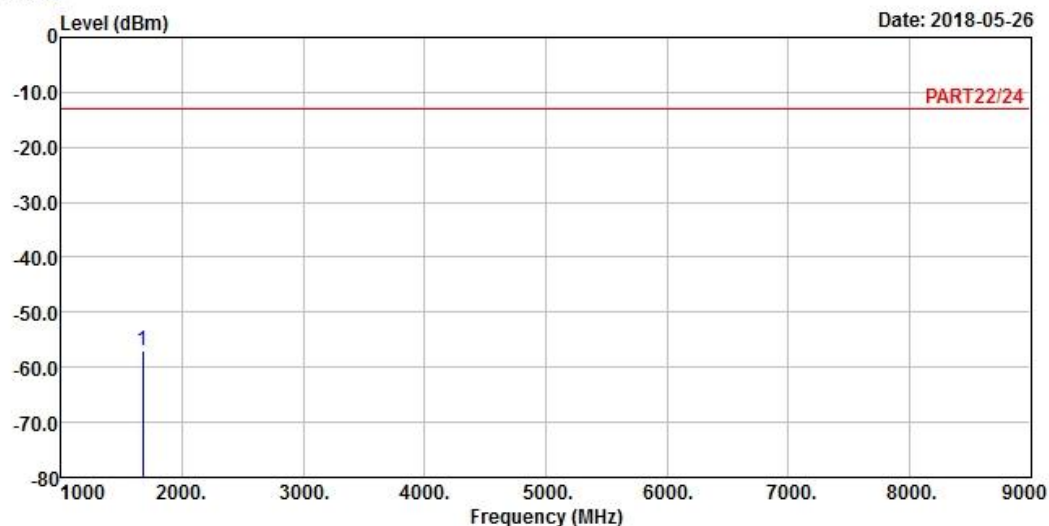
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1673.00	-57.17	-43.27	-13.00	-44.17	-13.90	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_1.4M Link_M-CH
Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1673.00	-56.92	-43.02	-13.00	-43.92	-13.90	Peak

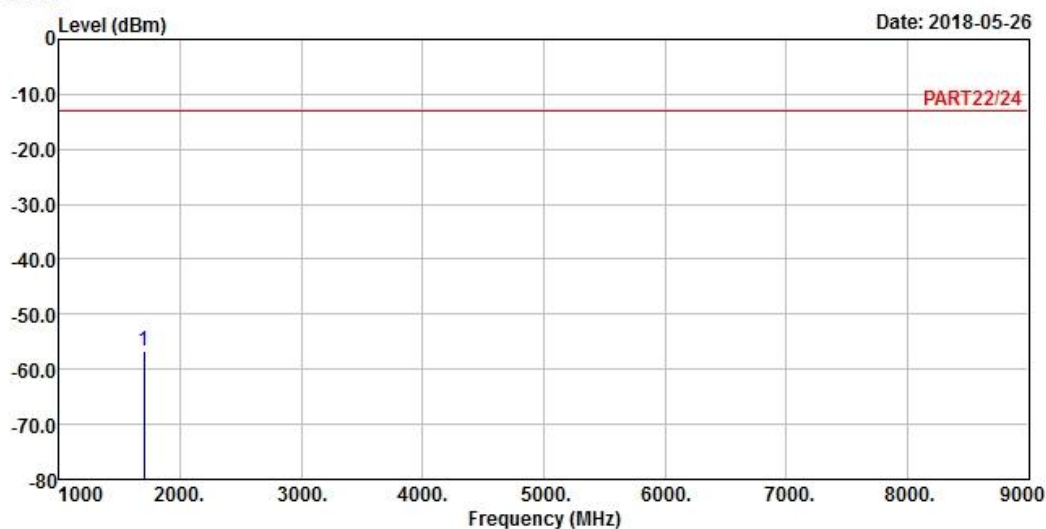
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 5 QPSK_1.4M Link_H-CH
 Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1696.60	-56.62	-42.60	-13.00	-43.62	-14.02	Peak

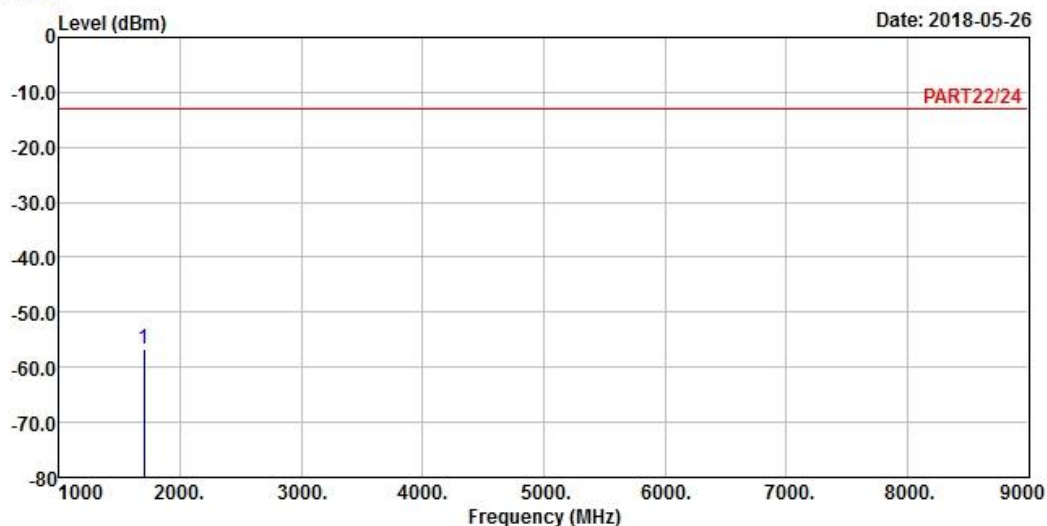


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2018-05-26



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_1.4M Link_H-CH

Tested by: Getaz Yang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1696.60	-56.67	-42.65	-13.00	-43.67	-14.02	Peak

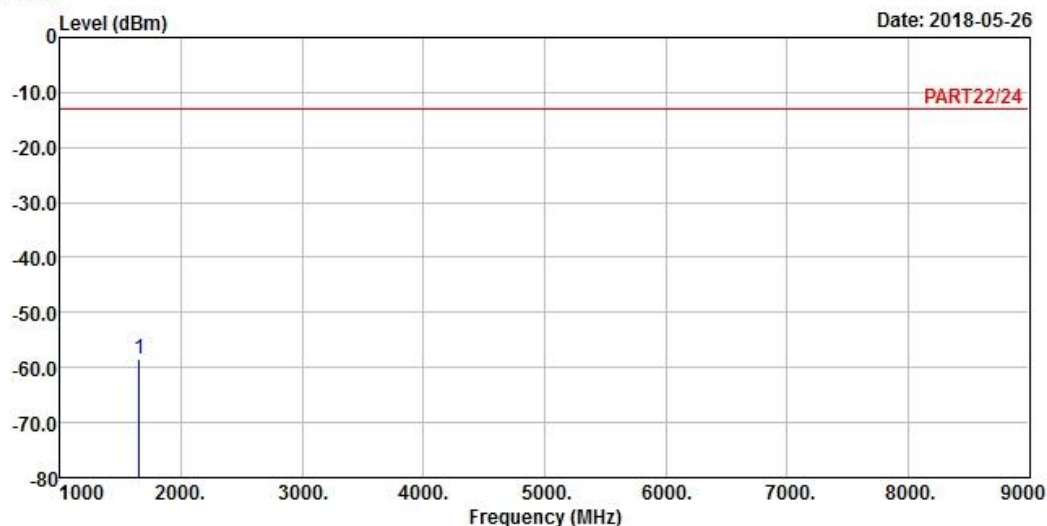
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_5M Link_L-CH
Tested by: Getaz Yang

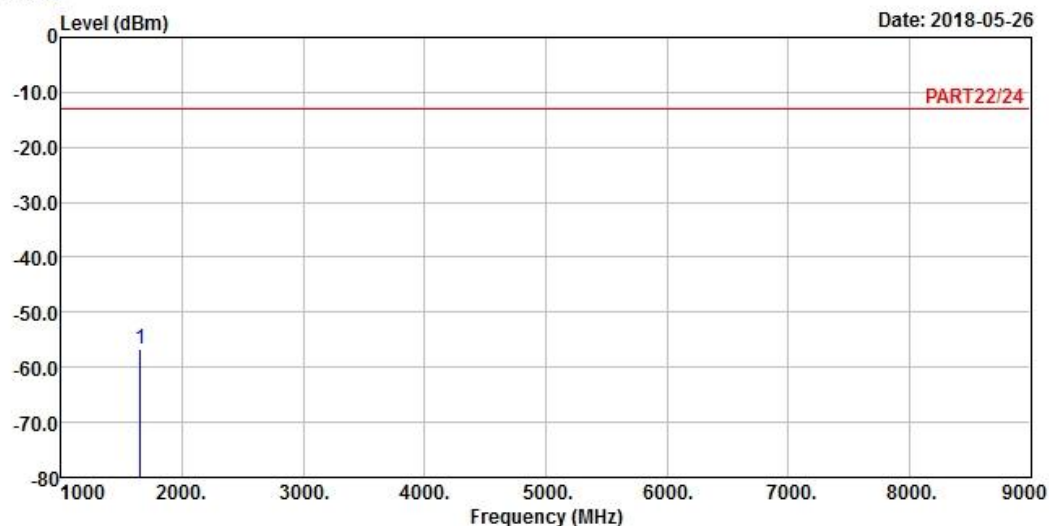
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1653.00	-58.49	-44.72	-13.00	-45.49	-13.77	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_5M Link_L-CH

Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1653.00	-56.73	-42.96	-13.00	-43.73	-13.77	Peak

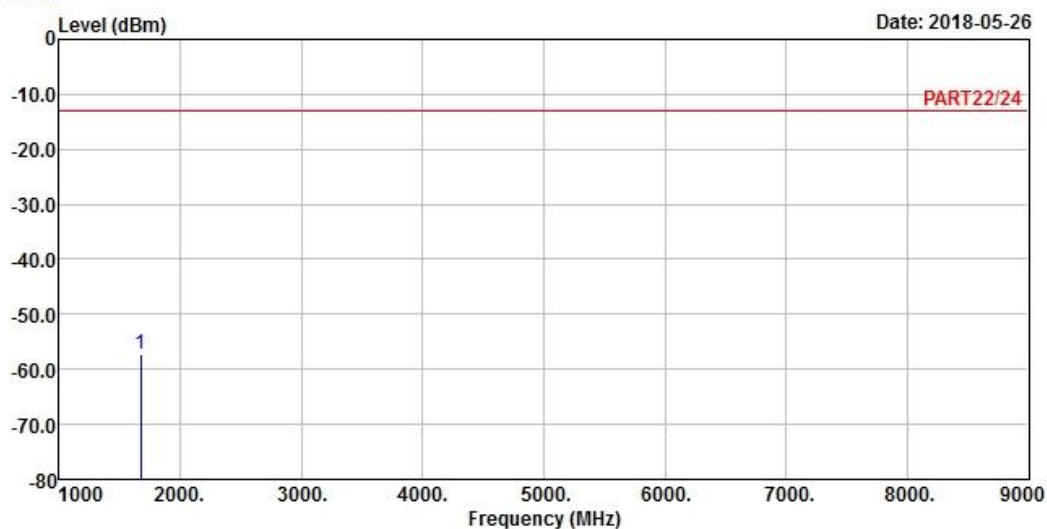
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 5 QPSK_5M Link_M-CH

Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1673.00	-57.28	-43.38	-13.00	-44.28	-13.90	Peak

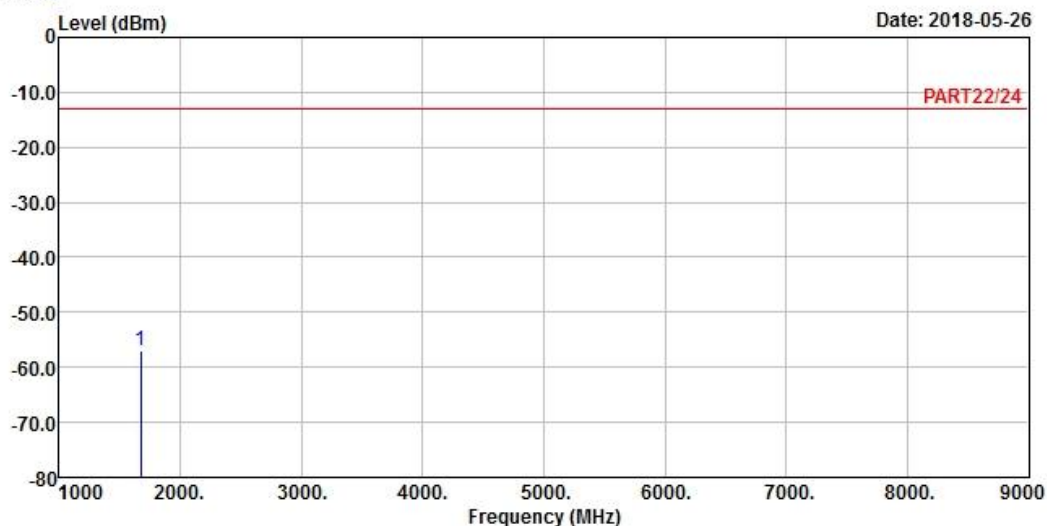


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2018-05-26



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_5M Link_M-CH

Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1673.00	-56.86	-42.96	-13.00	-43.86	-13.90	Peak

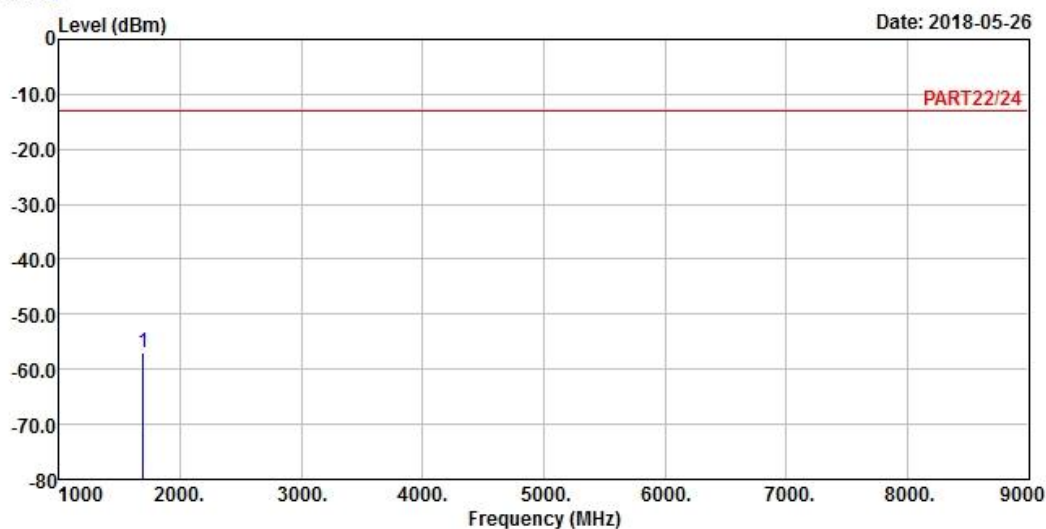
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 5 QPSK_5M Link_H-CH

Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1693.00	-57.00	-42.98	-13.00	-44.00	-14.02	Peak

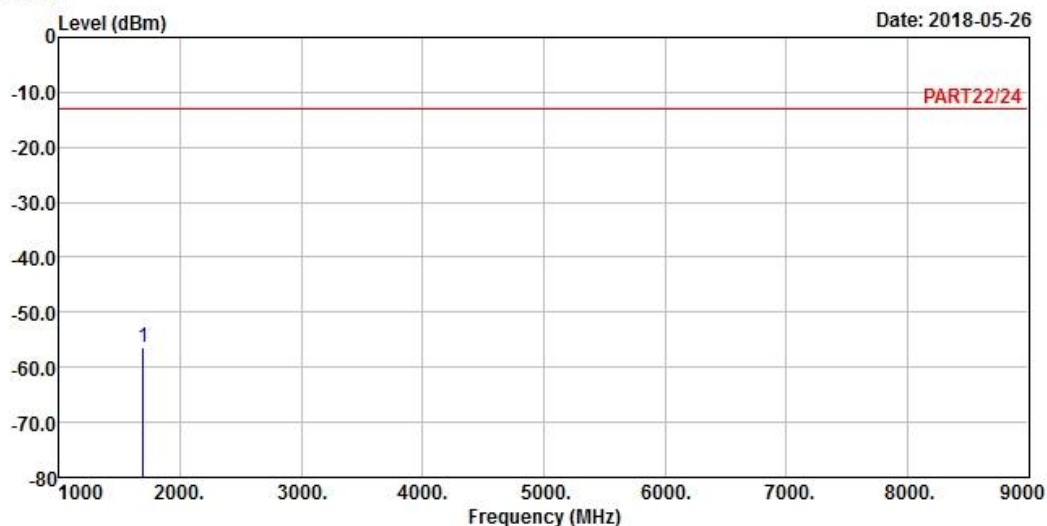


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2018-05-26



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_5M Link_H-CH

Tested by: Getaz Yang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1693.00	-56.52	-42.50	-13.00	-43.52	-14.02	Peak

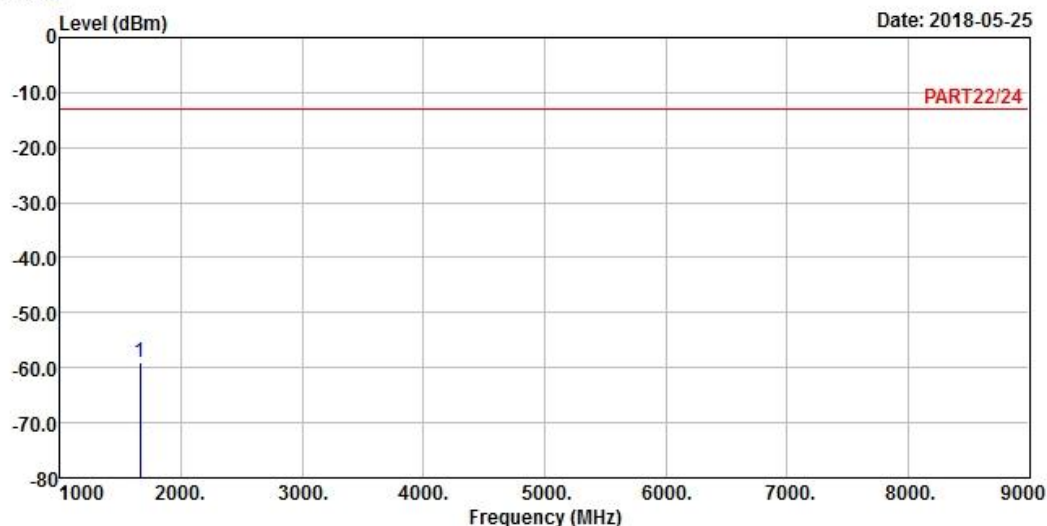
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_10M Link_L-CH
Tested by: Jisyong Wang

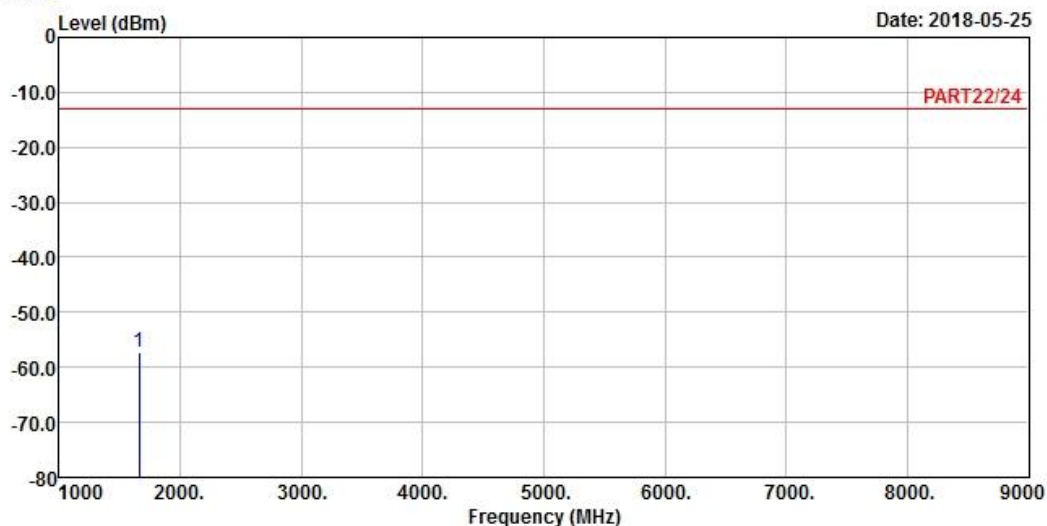
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1658.00	-59.07	-45.27	-13.00	-46.07	-13.80	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_10M Link_L-CH

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1658.00	-57.21	-43.41	-13.00	-44.21	-13.80	Peak

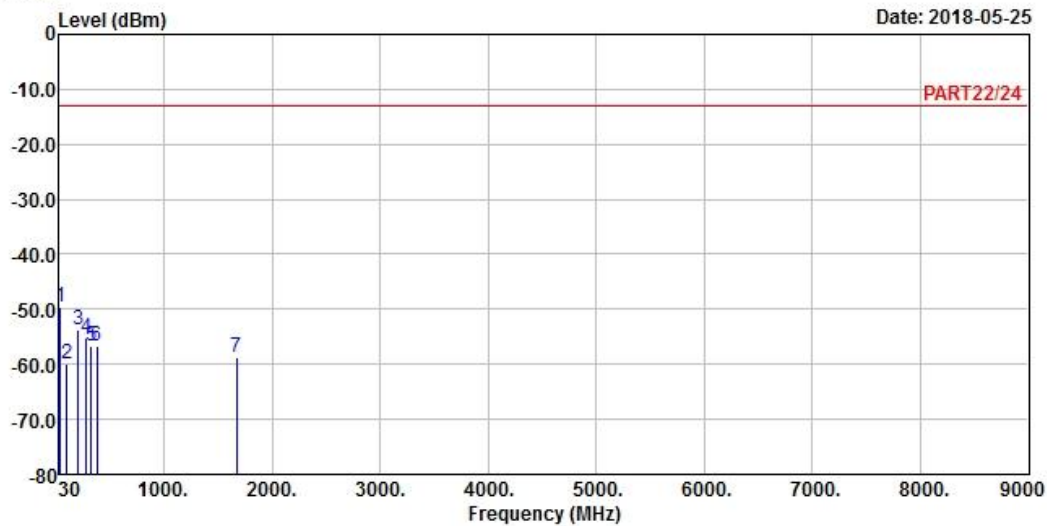
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 5 QPSK_10M Link_M-CH
 Tested by: Jisyong Wang

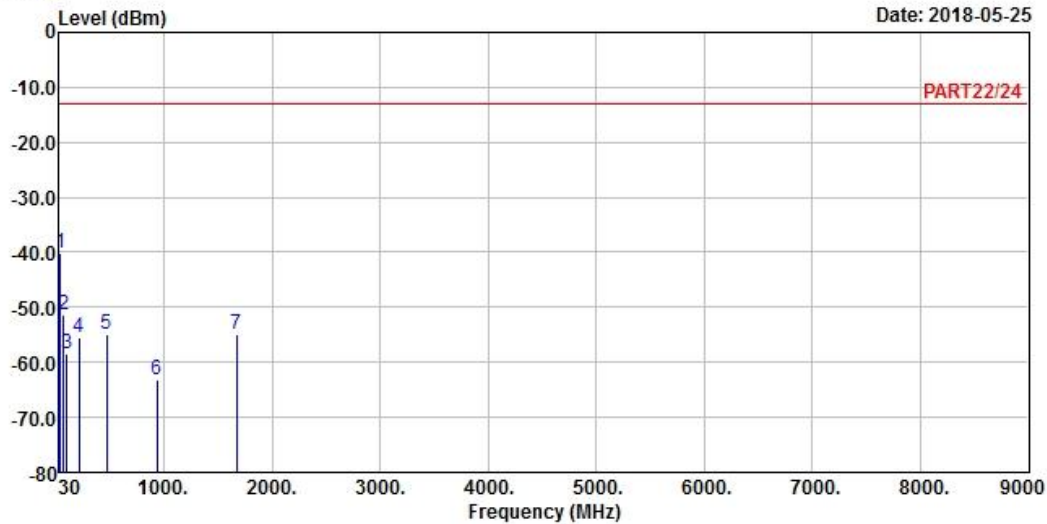
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.69	-49.73	-48.79	-13.00	-36.73	-0.94	Peak
2	96.96	-60.01	-49.28	-13.00	-47.01	-10.73	Peak
3	205.50	-53.83	-46.04	-13.00	-40.83	-7.79	Peak
4	277.05	-55.13	-48.58	-13.00	-42.13	-6.55	Peak
5	325.20	-56.64	-50.01	-13.00	-43.64	-6.63	Peak
6	375.60	-56.62	-50.53	-13.00	-43.62	-6.09	Peak
7	1673.00	-58.65	-44.75	-13.00	-45.65	-13.90	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_10M Link_M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	39.45	-40.16	-40.80	-13.00	-27.16	0.64	Peak
2	68.07	-51.30	-43.05	-13.00	-38.30	-8.25	Peak
3	97.23	-58.34	-47.61	-13.00	-45.34	-10.73	Peak
4	213.87	-55.57	-48.13	-13.00	-42.57	-7.44	Peak
5	467.30	-55.01	-49.79	-13.00	-42.01	-5.22	Peak
6	933.50	-63.07	-64.46	-13.00	-50.07	1.39	Peak
7	1673.00	-55.01	-41.11	-13.00	-42.01	-13.90	Peak

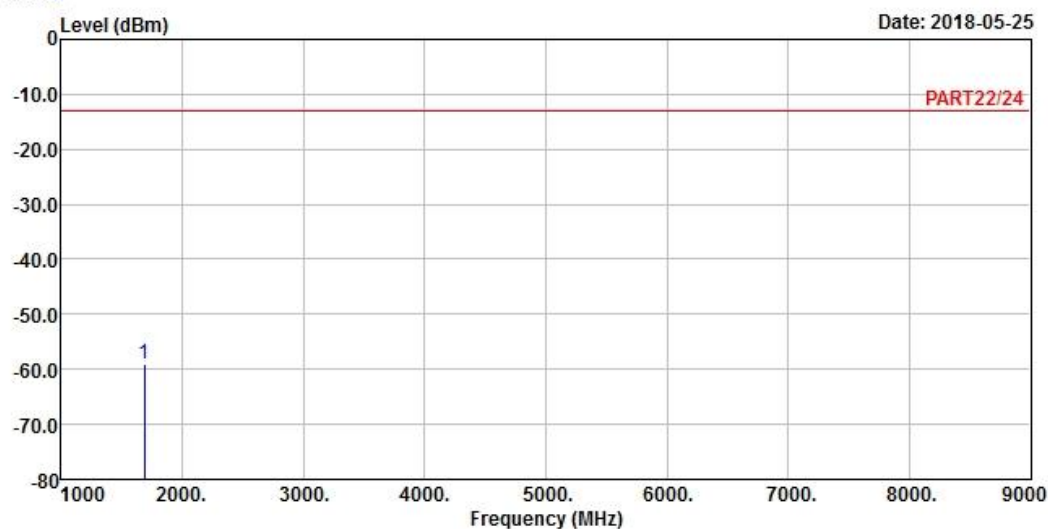
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 5 QPSK_10M Link_H-CH
 Tested by: Jisyong Wang

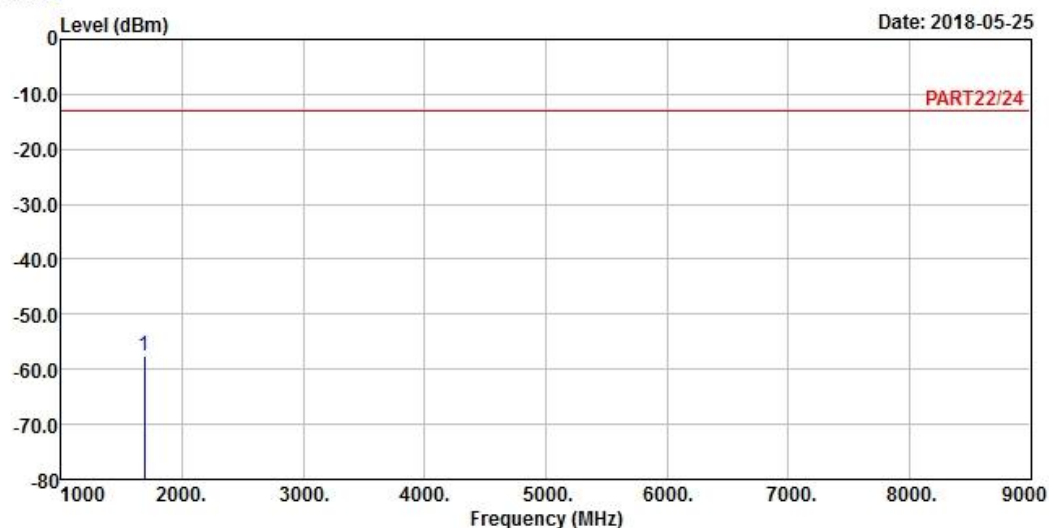
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1688.00	-58.89	-44.90	-13.00	-45.89	-13.99	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 5 QPSK_10M Link_H-CH

Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1688.00	-57.59	-43.60	-13.00	-44.59	-13.99	Peak

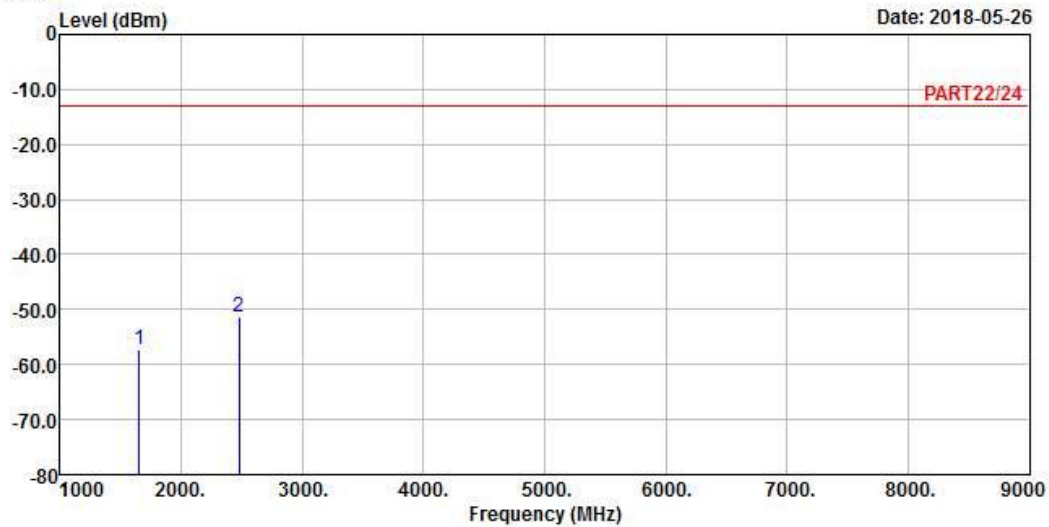
LTE Band 26
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 26 QPSK_1.4M Link_L-CH
Tested by: Getaz Yang

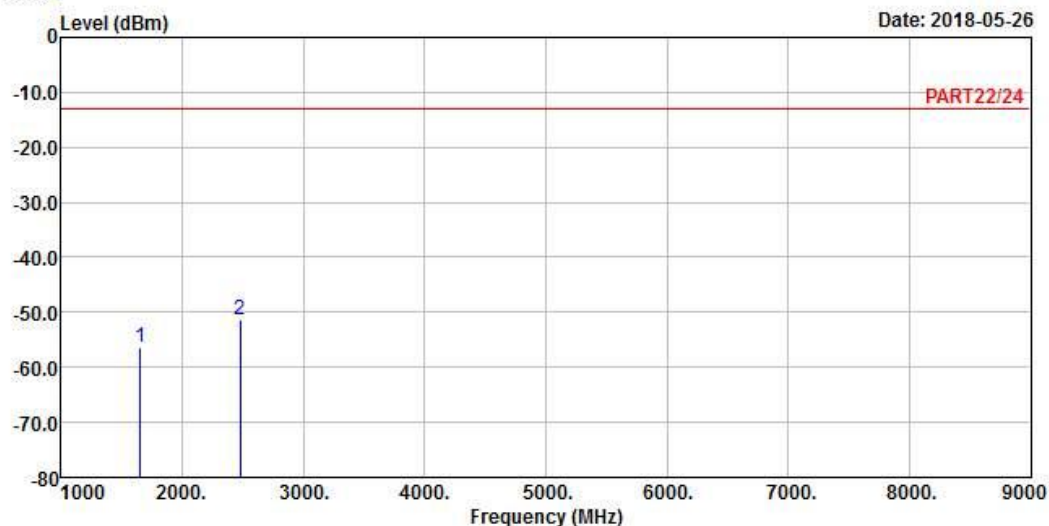
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1649.40	-57.29	-43.55	-13.00	-44.29	-13.74	Peak
2 pp	2474.10	-51.31	-41.29	-13.00	-38.31	-10.02	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_1.4M Link_L-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1649.40	-56.42	-42.68	-13.00	-43.42	-13.74	Peak
2 pp	2474.10	-51.39	-41.37	-13.00	-38.39	-10.02	Peak

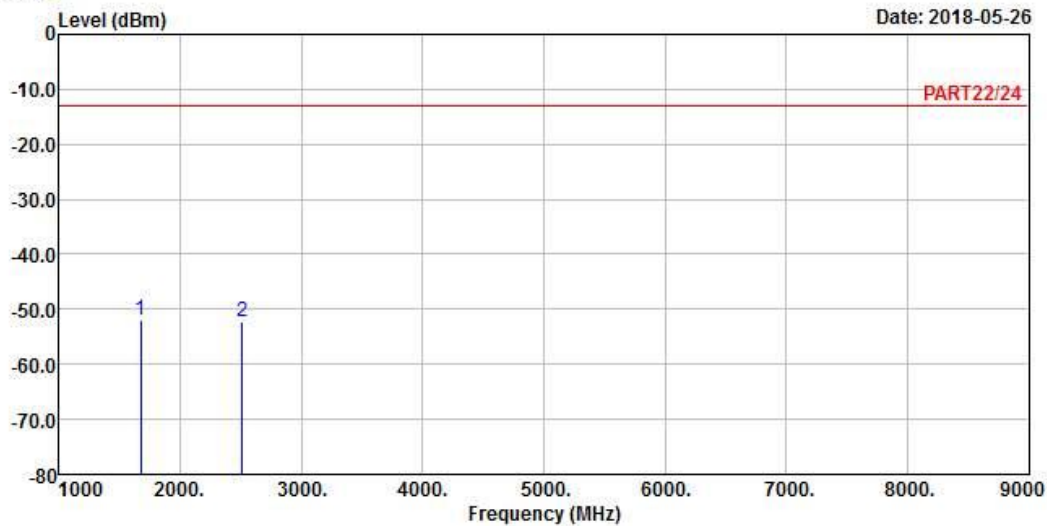
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 26 QPSK_1.4M Link_M-CH

Tested by: Getaz Yang

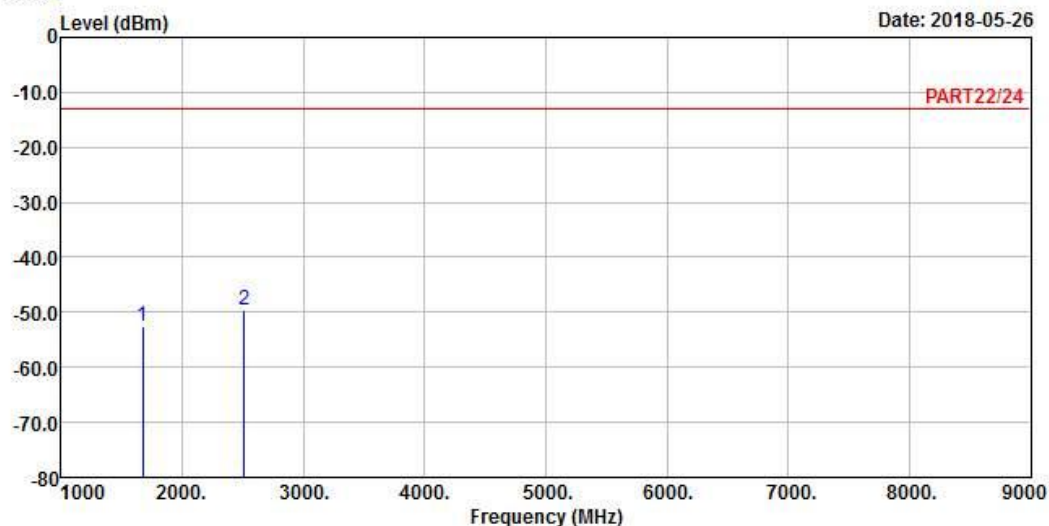
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-52.04	-38.14	-13.00	-39.04	-13.90	Peak
2	2509.50	-52.15	-42.07	-13.00	-39.15	-10.08	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_1.4M Link_M-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-52.44	-38.54	-13.00	-39.44	-13.90	Peak
2 pp	2509.50	-49.52	-39.44	-13.00	-36.52	-10.08	Peak

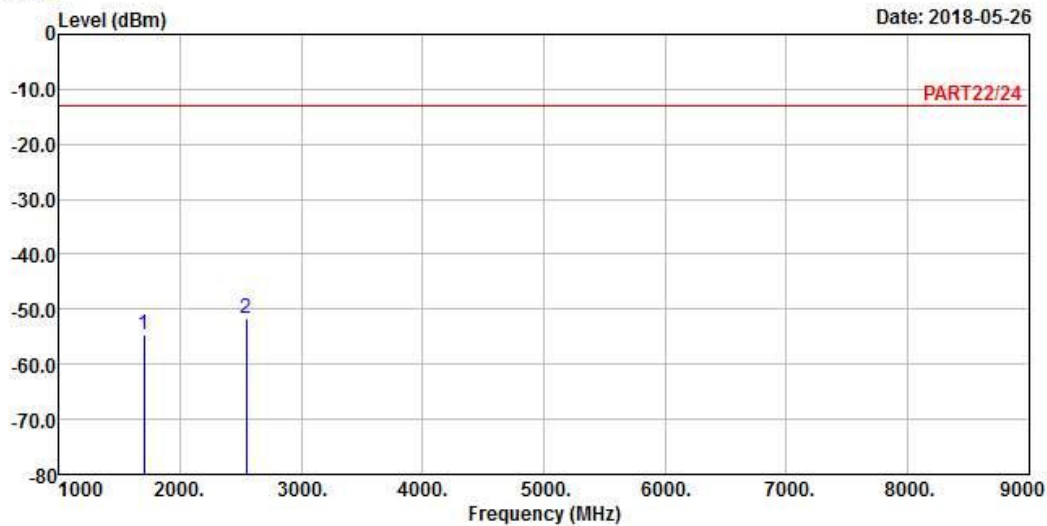
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 26 QPSK_1.4M Link_H-CH

Tested by: Getaz Yang

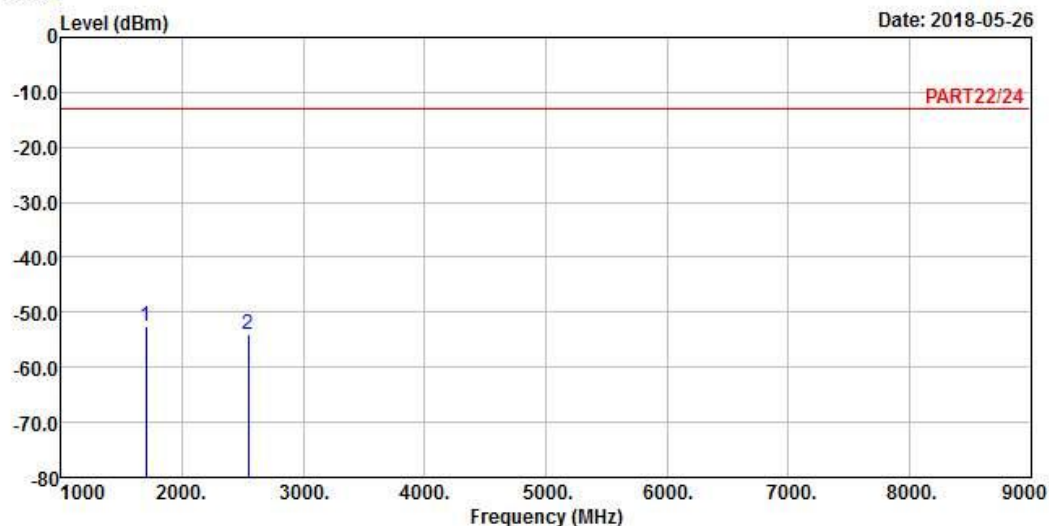
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1696.60	-54.55	-40.53	-13.00	-41.55	-14.02	Peak
2 pp	2544.90	-51.67	-41.61	-13.00	-38.67	-10.06	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_1.4M Link_H-CH

Tested by: Getaz Yang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1696.60	-52.69	-38.67	-13.00	-39.69	-14.02	Peak
2	2544.90	-54.06	-44.00	-13.00	-41.06	-10.06	Peak

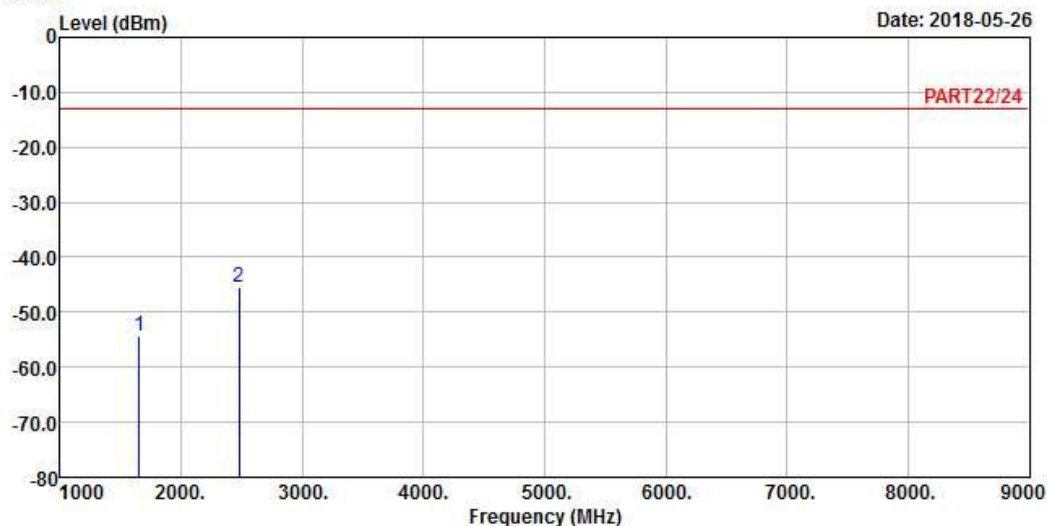
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 26 QPSK_5M Link_L-CH
Tested by: Getaz Yang

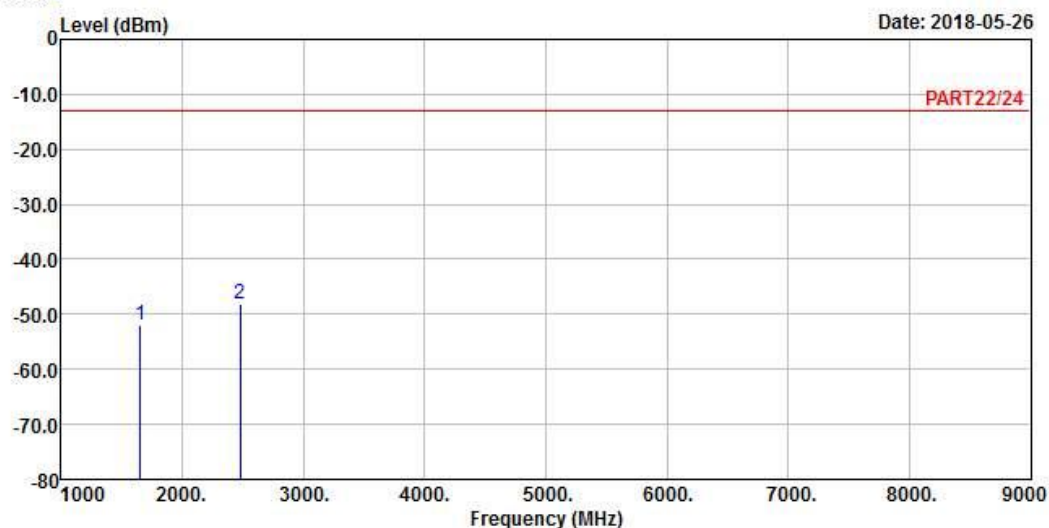
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1653.00	-54.28	-40.51	-13.00	-41.28	-13.77	Peak
2 pp	2479.50	-45.41	-35.38	-13.00	-32.41	-10.03	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_5M Link_L-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1653.00	-51.92	-38.15	-13.00	-38.92	-13.77	Peak
2 pp	2479.50	-48.24	-38.21	-13.00	-35.24	-10.03	Peak

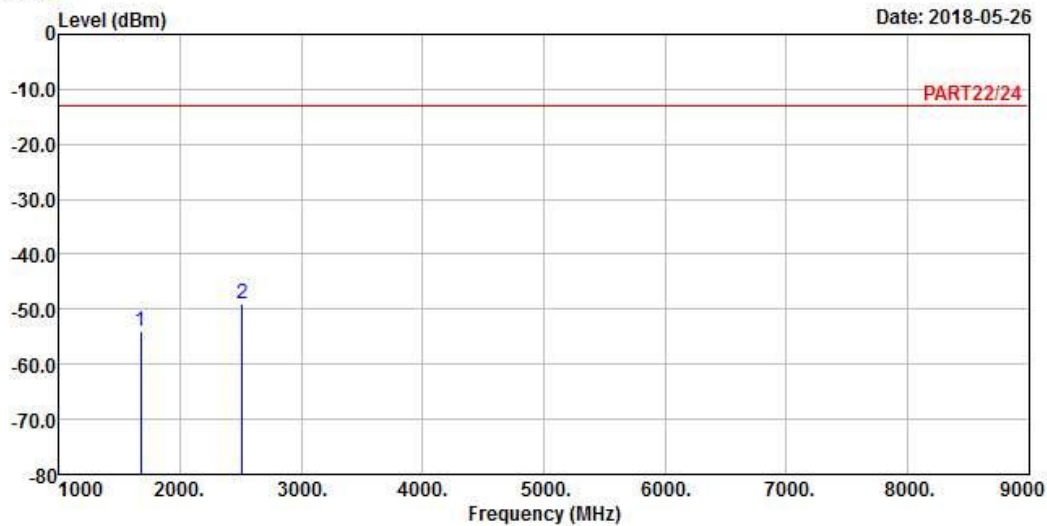
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 26 QPSK_5M Link_M-CH

Tested by: Getaz Yang

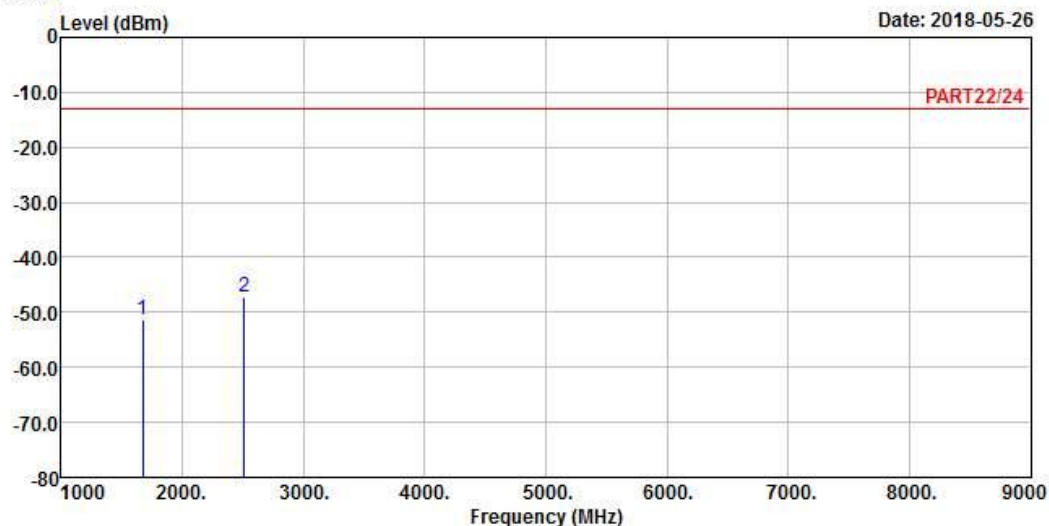
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-54.03	-40.13	-13.00	-41.03	-13.90	Peak
2 pp	2509.50	-48.98	-38.90	-13.00	-35.98	-10.08	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_5M Link_M-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-51.46	-37.56	-13.00	-38.46	-13.90	Peak
2 pp	2509.50	-47.34	-37.26	-13.00	-34.34	-10.08	Peak

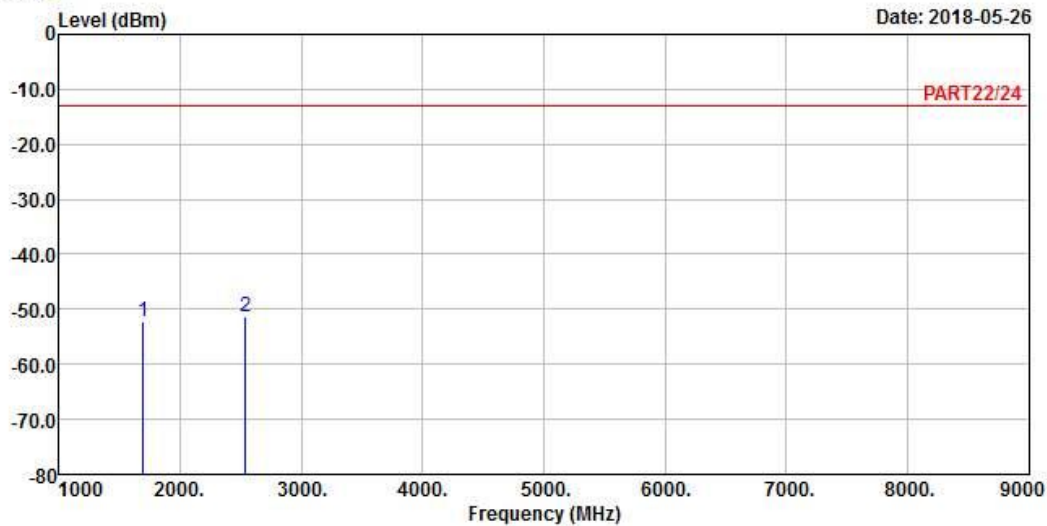
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 26 QPSK_5M Link_H-CH
 Tested by: Getaz Yang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1693.00	-52.38	-38.36	-13.00	-39.38	-14.02	Peak
2 pp	2539.50	-51.50	-41.44	-13.00	-38.50	-10.06	Peak

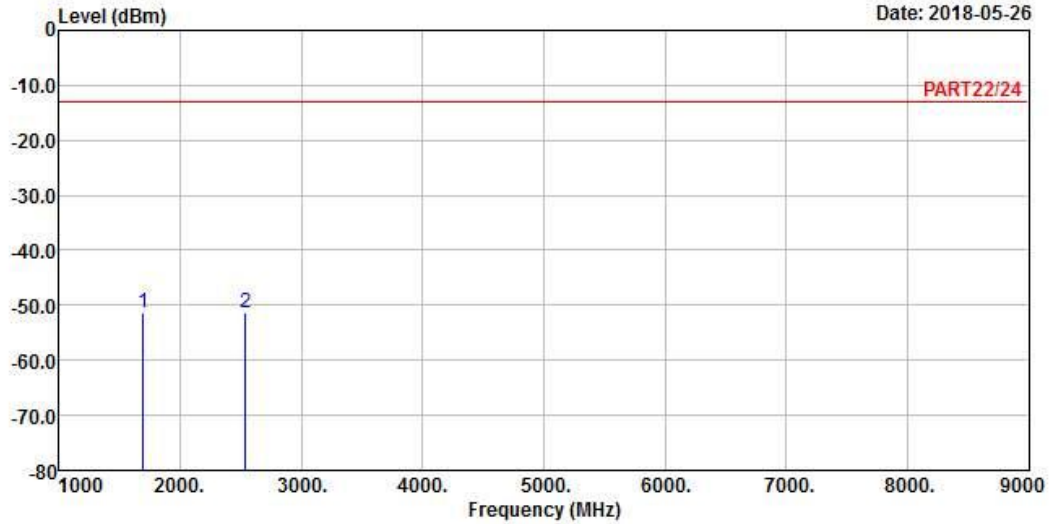


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2018-05-26



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_5M Link_H-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-51.22	-37.20	-13.00	-38.22	-14.02	Peak
2	2539.50	-51.23	-41.17	-13.00	-38.23	-10.06	Peak

Channel Bandwidth: 15 MHz / QPSK
Low Channel

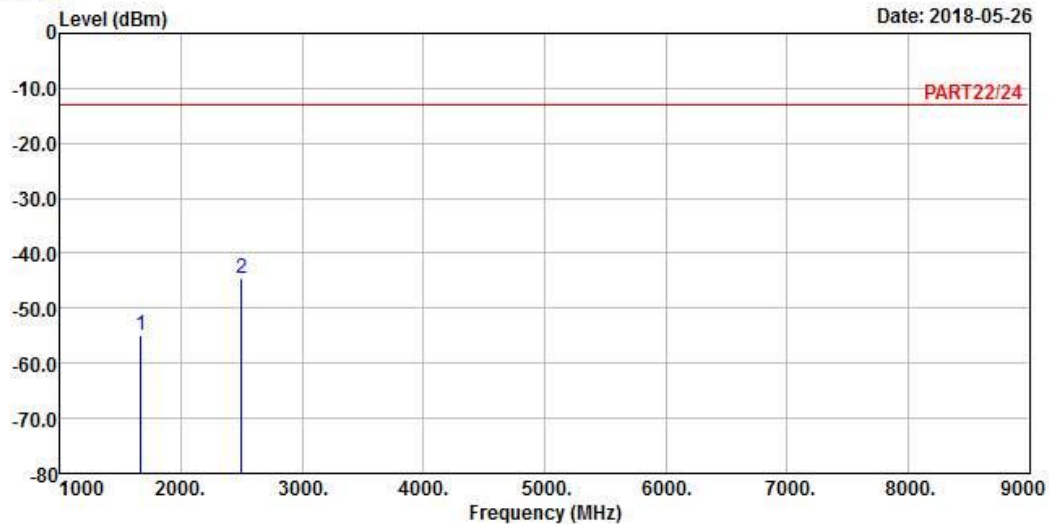


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2018-05-26



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 26 QPSK_15M Link_L-CH
Tested by: Getaz Yang

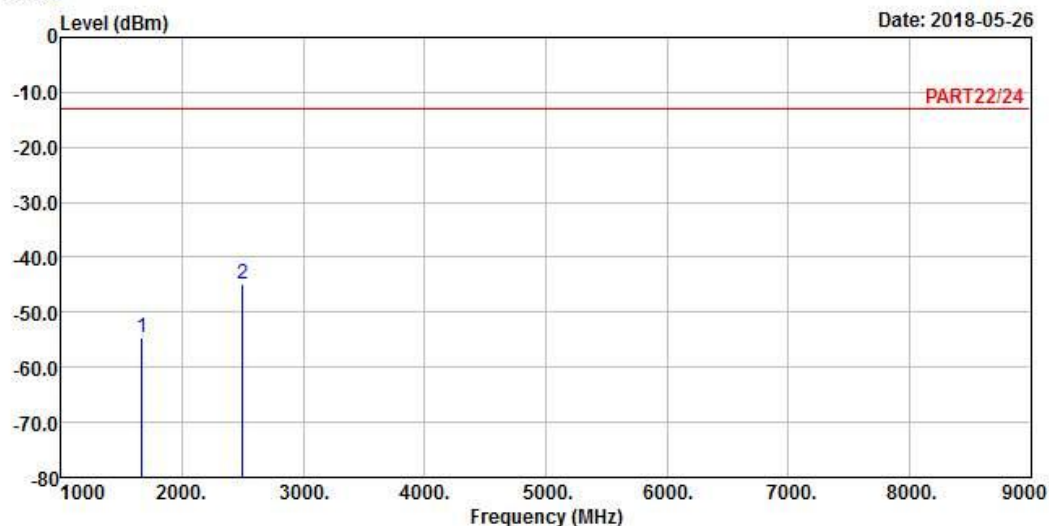
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1663.00	-54.87	-41.04	-13.00	-41.87	-13.83	Peak
2 pp	2494.50	-44.54	-34.48	-13.00	-31.54	-10.06	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_15M Link_L-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1663.00	-54.58	-40.75	-13.00	-41.58	-13.83	Peak
2 pp	2494.50	-44.94	-34.88	-13.00	-31.94	-10.06	Peak

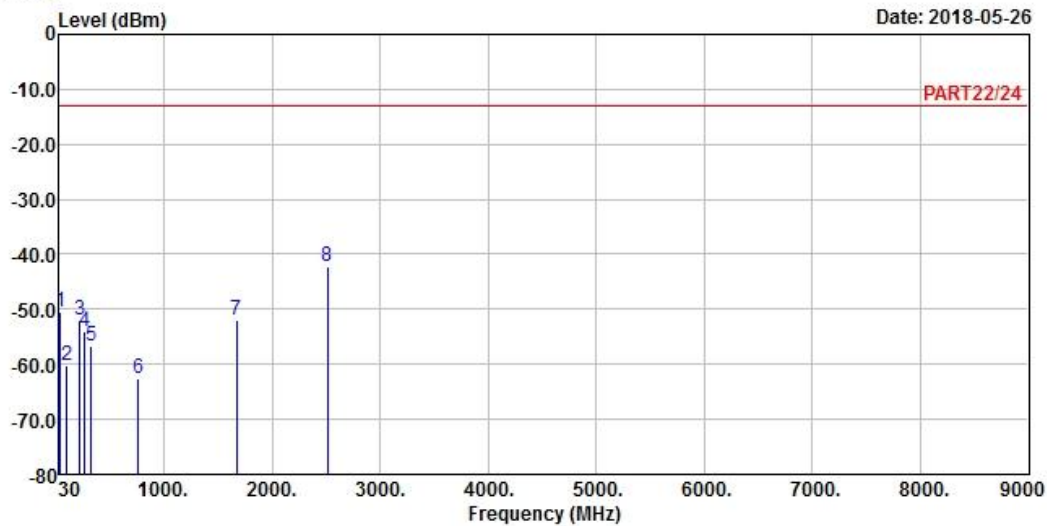
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 26 QPSK_15M Link_M-CH
 Tested by: Getaz Yang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.96	-50.47	-49.53	-13.00	-37.47	-0.94	Peak
2	97.23	-60.26	-49.53	-13.00	-47.26	-10.73	Peak
3	219.54	-51.89	-44.65	-13.00	-38.89	-7.24	Peak
4	264.36	-54.06	-47.77	-13.00	-41.06	-6.29	Peak
5	326.60	-56.64	-50.04	-13.00	-43.64	-6.60	Peak
6	763.40	-62.44	-63.28	-13.00	-49.44	0.84	Peak
7	1673.00	-51.89	-37.99	-13.00	-38.89	-13.90	Peak
8 pp	2509.50	-42.10	-32.02	-13.00	-29.10	-10.08	Peak

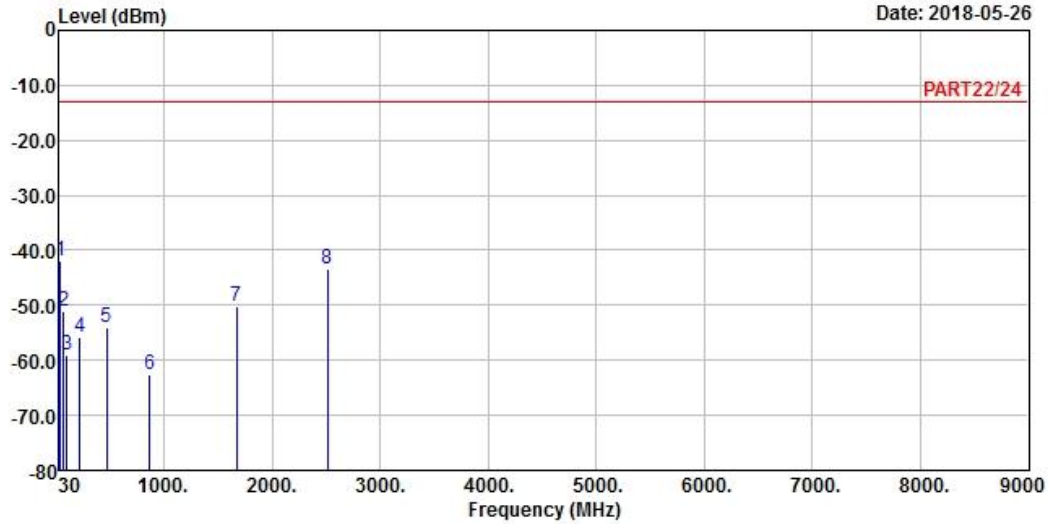


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-05-26



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remak : LTE Band 26 QPSK_15M Link_M-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	39.45	-41.88	-42.52	-13.00	-28.88	0.64	Peak
2	68.07	-51.03	-42.78	-13.00	-38.03	-8.25	Peak
3	98.04	-59.17	-48.50	-13.00	-46.17	-10.67	Peak
4	219.27	-55.87	-48.63	-13.00	-42.87	-7.24	Peak
5	464.50	-54.05	-48.77	-13.00	-41.05	-5.28	Peak
6	863.50	-62.48	-62.85	-13.00	-49.48	0.37	Peak
7	1673.00	-50.24	-36.34	-13.00	-37.24	-13.90	Peak
8	2509.50	-43.41	-33.33	-13.00	-30.41	-10.08	Peak

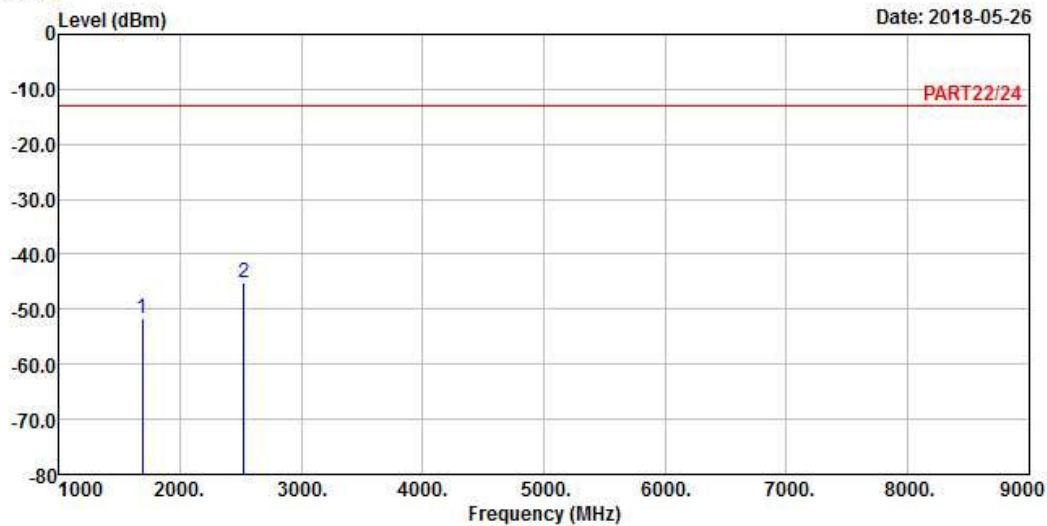
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band 26 QPSK_15M Link_H-CH

Tested by: Getaz Yang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1683.00	-51.62	-37.66	-13.00	-38.62	-13.96	Peak
2 pp	2524.50	-45.19	-35.12	-13.00	-32.19	-10.07	Peak

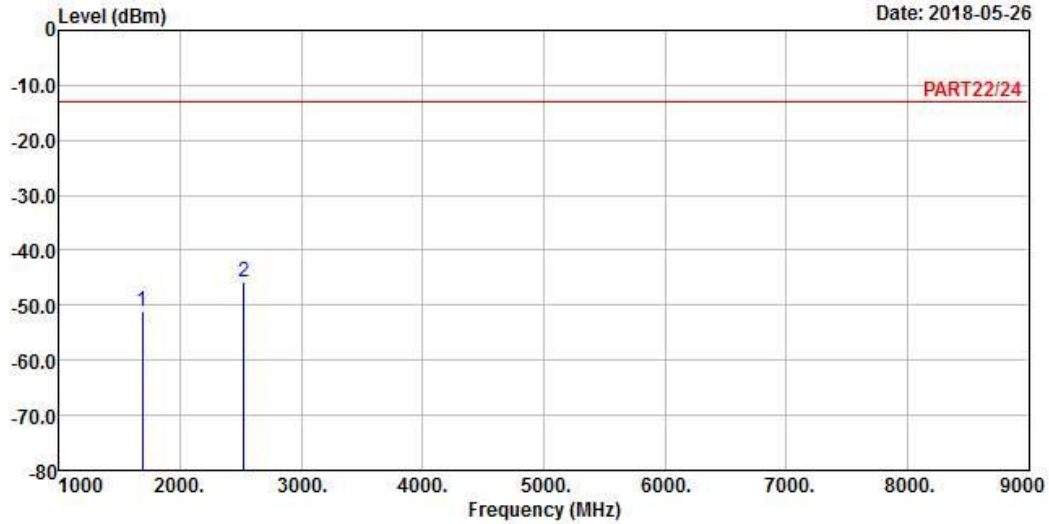


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2018-05-26



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_15M Link_H-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1683.00	-51.03	-37.07	-13.00	-38.03	-13.96	Peak
2 pp	2524.50	-45.77	-35.70	-13.00	-32.77	-10.07	Peak

5 Pictures of Test Arrangements

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

Appendix – Information on 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 according to ISO/IEC 17025.

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

Linko 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

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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