

Partial FCC Test Report

(PART 22)

Report No.: RF190828C21

FCC ID: QYLEM7455Z

Test Model: EM7455

Received Date: Aug. 28, 2019

Test Date: Sep. 06 ~ Sep. 10, 2019

Issued Date: Oct. 31, 2019

Applicant: Getac Technology Corporation.

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

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FCC Registration /
Designation Number: 427177 / TW0011



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Release Control Record

Issue No.	Description	Date Issued
RF190828C21	Original Release	Oct. 31, 2019

1 Certificate of Conformity

Product: Radio module

Brand: Sierra wireless Inc.

Test Model: EM7455

Sample Status: Identical Prototype

Applicant: Getac Technology Corporation.

Test Date: Sep. 06 ~ Sep. 10, 2019

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 : Gina Liu, **Date:** Oct. 31, 2019
Gina Liu / Specialist

Approved by : Dylan Chiou, **Date:** Oct. 31, 2019
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.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1046 22.913 (d)	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 -30.63 dB at 150.96 MHz.

Note:

1. This report is a Class II change Partial report. Therefore, only test item of Radiated Spurious Emissions and Effective Radiated Power tests were performed for this report. Other testing data please refer to TTL report no.: B15W50341-FCC-RF and B15W50341-FCC-RF_Rev1 for module (Brand: Sierra wireless Inc., Model: EM7455)
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	9 kHz ~ 30 MHz	3.0400 dB
	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Aug. 26, 2019	Aug. 25, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 15, 2019	Apr. 14, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSW26	102023	Oct. 11, 2018	Oct. 10, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-616	Nov. 27, 2018	Nov. 26, 2019
HORN Antenna ETS-Lindgren	3117	00143293	Nov. 25, 2018	Nov. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-631	Nov. 26, 2018	Nov. 25, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 19, 2018	Nov. 18, 2019
Preamplifier Agilent	310N	187226	Jun. 18, 2019	Jun. 17, 2020
Preamplifier Agilent	83017A	MY39501357	Jun. 18, 2019	Jun. 17, 2020
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RFC -SMS-100-SMS-12 0+RFC-SMS-100-S MS-400)	Jun. 18, 2019	Jun. 17, 2020
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RFC -SMS-100-SMS-24)	Jun. 18, 2019	Jun. 17, 2020
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jul. 01, 2019	Jun. 30, 2021
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 19, 2019	Aug. 18, 2021

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 HsinTien Chamber 1.

3 General Information

3.1 General Description of EUT

Product	Radio module	
Brand	Sierra wireless Inc.	
Test Model	EM7455	
Status of EUT	Identical Prototype	
Power Supply Rating	3.3 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	110.61 mW
	LTE 5 (Channel Bandwidth: 1.4 MHz)	108.59 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	109.35 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	110.10 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	111.12 mW
	LTE 26 (Channel Bandwidth: 1.4 MHz)	102.75 mW
	LTE 26 (Channel Bandwidth: 3 MHz)	103.71 mW
	LTE 26 (Channel Bandwidth: 5 MHz)	104.66 mW
	LTE 26 (Channel Bandwidth: 10 MHz)	105.63 mW
	LTE 26 (Channel Bandwidth: 15 MHz)	106.37 mW
Antenna Type	Refer to Note as below	
Accessory Device	N/A	
Data Cable Supplied	N/A	

Note:

1. The EUT is authorized for use in specific End-product.

Product	Brand	Model
Tablet	Getac	ZX70

2. The antenna information is listed as below.

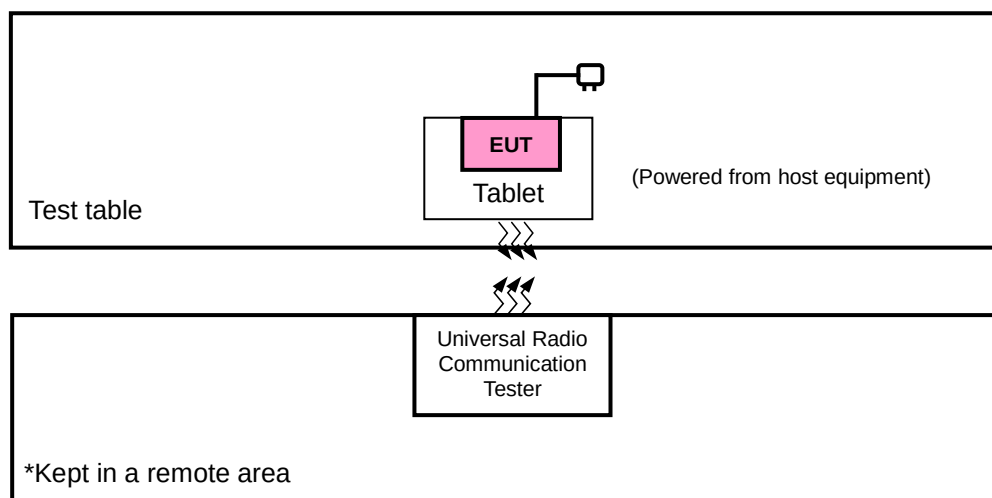
Antenna Type	Brand	Model	Antenna Gain		
			WCDMA V	LTE B5	LTE B26
PIFA	SINBON	A9703134	-0.42	-0.42	-0.42

3. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	APD	WA24Q12R	I/P: 100-240 Vac, 50-60 Hz, 0.7A O/P: 12 Vdc, 2 A DC Lind: 1.75 m cable w/ 1 core
Adapter 2	APD	WB-24J12R	I/P: 100-240 Vac, 50-60 Hz, 0.7A O/P: 12 Vdc, 2 A DC Lind: 1.75 m cable w/ 1 core
Battery	Geatc	BP1S2P4240L	3.8 Vdc, 8480 mAh
LCD Panel	Truly	TDO-HD0698K61701	7"
Photo Camera	Chicony	CWFFF2520005340LH	2MPs HD Fix focus camera
Video Camera	Chicony	CYAF82520005340LH	8MPs auto focus camera
CPU	intel	Atom Z8350	592 PIN
Memory	Samsung	K4E6E304EE-EGCE	DDR3 4G (2G*2)
Storage	Samsung	KLMAG4GEND-B031	32G
GPS Module	U-blox	MAX-M8N	--
BT/WLAN Module	AMPAK	AP6234	--
RFID Module	Jogtek	TRF7970A	--
WWAN Module	Sierra	EM7455	--
Bar Code Reader	Honeywell	N6603	--
Fingerprint	IMD	SF1115	--

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



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.	Tablet	Getac	ZX70	N/A	N/A
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6201300640	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. Item 1 was provided by client.

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	ERP	Radiated Emission
WCDMA	Z-plane	Z-axis
LTE Band 5	Z-plane	Z-axis
LTE Band 26	Z-plane	Z-axis

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 / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

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 / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM	1 RB / 0 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	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	3.3 Vdc	Charles Hsiao
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao

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

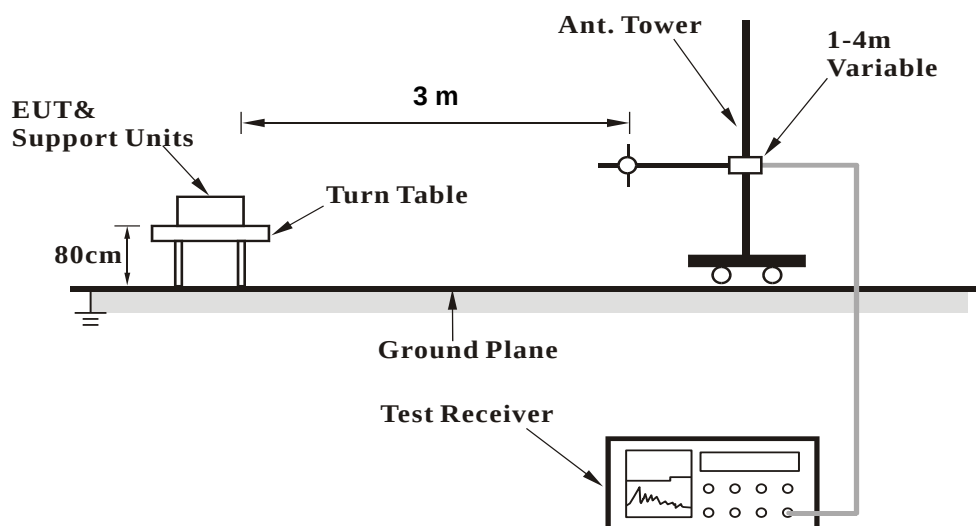
EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5 MHz for WCDMA, 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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

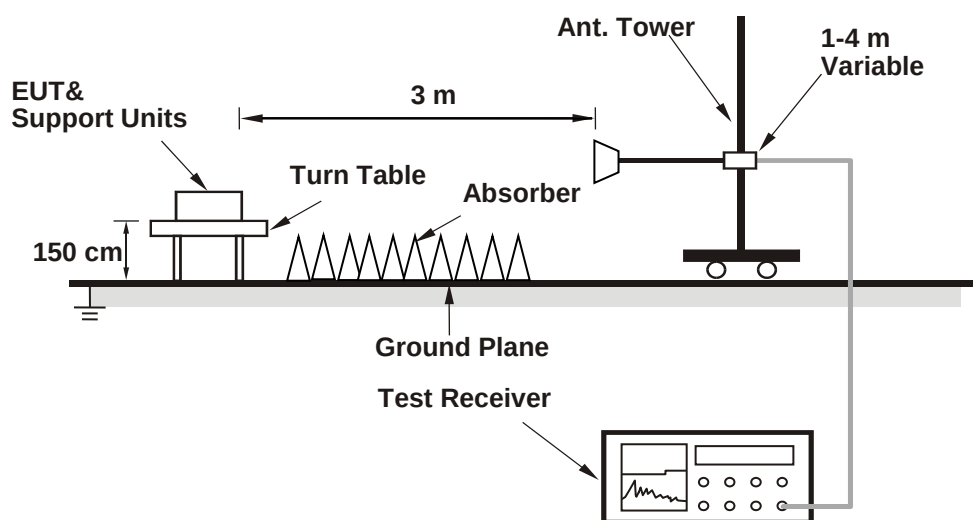
4.1.3 Test Setup

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).

4.1.4 Test Results

ERP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	4132	826.4	-8.62	31.208	20.44	110.61	H
	4182	836.4	-8.76	31.3	20.39	109.40	
	4233	846.6	-8.70	31.222	20.37	108.94	
	4132	826.4	-12.90	31.504	16.45	44.20	V
	4182	836.4	-12.60	31.117	16.37	43.32	
	4233	846.6	-13.46	31.922	16.31	42.78	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	20407	824.7	-8.70	31.208	20.36	108.59	H
	20525	836.5	-8.83	31.3	20.32	107.65	
	20643	848.3	-8.80	31.222	20.27	106.46	
	20407	824.7	-12.97	31.504	16.38	43.49	V
	20525	836.5	-12.67	31.117	16.30	42.63	
	20643	848.3	-13.56	31.922	16.21	41.80	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	20407	824.7	-9.71	31.208	19.35	86.06	H
	20525	836.5	-9.83	31.3	19.32	85.51	
	20643	848.3	-9.81	31.222	19.26	84.37	
	20407	824.7	-13.97	31.504	15.38	34.55	V
	20525	836.5	-13.68	31.117	15.29	33.78	
	20643	848.3	-14.57	31.922	15.20	33.13	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	20415	825.5	-8.67	31.208	20.39	109.35	H
	20525	836.5	-8.80	31.3	20.35	108.39	
	20635	847.5	-8.76	31.222	20.31	107.45	
	20415	825.5	-12.94	31.504	16.41	43.79	V
	20525	836.5	-12.66	31.117	16.31	42.73	
	20635	847.5	-13.52	31.922	16.25	42.19	
Channel Bandwidth: 3 MHz / 16QAM							
Z	20415	825.5	-9.67	31.208	19.39	86.86	H
	20525	836.5	-9.81	31.3	19.34	85.90	
	20635	847.5	-9.77	31.222	19.30	85.15	
	20415	825.5	-13.94	31.504	15.41	34.79	V
	20525	836.5	-13.67	31.117	15.30	33.86	
	20635	847.5	-14.53	31.922	15.24	33.43	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	20425	826.5	-8.64	31.208	20.42	110.10	H
	20525	836.5	-8.76	31.3	20.39	109.40	
	20625	846.5	-8.72	31.222	20.35	108.44	
	20425	826.5	-12.94	31.504	16.41	43.79	V
	20525	836.5	-12.62	31.117	16.35	43.12	
	20625	846.5	-13.50	31.922	16.27	42.38	
Channel Bandwidth: 5 MHz / 16QAM							
Z	20425	826.5	-9.65	31.208	19.41	87.26	H
	20525	836.5	-9.77	31.3	19.38	86.70	
	20625	846.5	-9.72	31.222	19.35	86.14	
	20425	826.5	-13.94	31.504	15.41	34.79	V
	20525	836.5	-13.62	31.117	15.35	34.25	
	20625	846.5	-14.51	31.922	15.26	33.59	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	20450	829.0	-8.60	31.208	20.46	111.12	H
	20525	836.5	-8.72	31.3	20.43	110.41	
	20600	844.0	-8.69	31.222	20.38	109.19	
	20450	829.0	-12.90	31.504	16.45	44.20	V
	20525	836.5	-12.58	31.117	16.39	43.52	
	20600	844.0	-13.46	31.922	16.31	42.78	
Channel Bandwidth: 10 MHz / 16QAM							
Z	20450	829.0	-9.61	31.208	19.45	88.06	H
	20525	836.5	-9.72	31.3	19.43	87.70	
	20600	844.0	-9.70	31.222	19.37	86.54	
	20450	829.0	-13.91	31.504	15.44	35.03	V
	20525	836.5	-13.58	31.117	15.39	34.57	
	20600	844.0	-14.47	31.922	15.30	33.90	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26797	824.7	-8.94	31.208	20.12	102.75	H
	26915	836.5	-9.08	31.3	20.07	101.62	
	27033	848.3	-9.06	31.222	20.01	100.28	
	26797	824.7	-13.26	31.504	16.09	40.68	V
	26915	836.5	-12.91	31.117	16.06	40.34	
	27033	848.3	-13.76	31.922	16.01	39.92	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	26797	824.7	-9.94	31.208	19.12	81.62	H
	26915	836.5	-10.08	31.3	19.07	80.72	
	27033	848.3	-10.07	31.222	19.00	79.47	
	26797	824.7	-14.26	31.504	15.09	32.31	V
	26915	836.5	-13.91	31.117	15.06	32.04	
	27033	848.3	-14.76	31.922	15.01	31.71	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26805	825.5	-8.90	31.208	20.16	103.71	H
	26915	836.5	-9.04	31.3	20.11	102.57	
	27025	847.5	-9.02	31.222	20.05	101.20	
	26805	825.5	-13.22	31.504	16.13	41.06	V
	26915	836.5	-12.87	31.117	16.10	40.71	
	27025	847.5	-13.72	31.922	16.05	40.29	
Channel Bandwidth: 3 MHz / 16QAM							
Z	26805	825.5	-9.90	31.208	19.16	82.38	H
	26915	836.5	-10.04	31.3	19.11	81.47	
	27025	847.5	-10.02	31.222	19.05	80.39	
	26805	825.5	-14.23	31.504	15.12	32.54	V
	26915	836.5	-13.88	31.117	15.09	32.26	
	27025	847.5	-14.72	31.922	15.05	32.00	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26815	826.5	-8.86	31.208	20.20	104.66	H
	26915	836.5	-8.99	31.3	20.16	103.75	
	27015	846.5	-8.98	31.222	20.09	102.14	
	26815	826.5	-13.18	31.504	16.17	41.44	V
	26919	836.5	-12.83	31.117	16.14	41.09	
	27015	846.5	-13.69	31.922	16.08	40.57	
Channel Bandwidth: 5 MHz / 16QAM							
Z	26815	826.5	-9.86	31.208	19.20	83.14	H
	26915	836.5	-10.00	31.3	19.15	82.22	
	27015	846.5	-9.99	31.222	19.08	80.95	
	26815	826.5	-14.18	31.504	15.17	32.92	V
	26919	836.5	-13.83	31.117	15.14	32.64	
	27015	846.5	-14.70	31.922	15.07	32.15	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26840	829.0	-8.82	31.208	20.24	105.63	H
	26915	836.5	-8.96	31.3	20.19	104.47	
	26990	844.0	-8.94	31.222	20.13	103.09	
	26840	829.0	-13.14	31.504	16.21	41.82	V
	26919	836.5	-12.79	31.117	16.18	41.47	
	26990	844.0	-13.66	31.922	16.11	40.85	
Channel Bandwidth: 10 MHz / 16QAM							
Z	26840	829.0	-9.82	31.208	19.24	83.91	H
	26915	836.5	-9.96	31.3	19.19	82.99	
	26990	844.0	-9.95	31.222	19.12	81.70	
	26840	829.0	-14.15	31.504	15.20	33.14	V
	26919	836.5	-13.79	31.117	15.18	32.94	
	26990	844.0	-14.66	31.922	15.11	32.45	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26865	831.5	-8.79	31.208	20.27	106.37	H
	26915	836.5	-8.92	31.3	20.23	105.44	
	26965	841.5	-8.90	31.222	20.17	104.04	
	26865	831.5	-13.10	31.504	16.25	42.21	V
	26915	836.5	-12.75	31.117	16.22	41.85	
	26965	841.5	-13.62	31.922	16.15	41.23	
Channel Bandwidth: 15 MHz / 16QAM							
Z	26865	831.5	-9.80	31.208	19.26	84.29	H
	26915	836.5	-9.92	31.3	19.23	83.75	
	26965	841.5	-9.90	31.222	19.17	82.64	
	26865	831.5	-14.11	31.504	15.24	33.45	V
	26915	836.5	-13.75	31.117	15.22	33.24	
	26965	841.5	-14.63	31.922	15.14	32.67	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

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 = Output power level of S.G – TX cable loss + 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 power = E.I.R.P power - 2.15 dB.

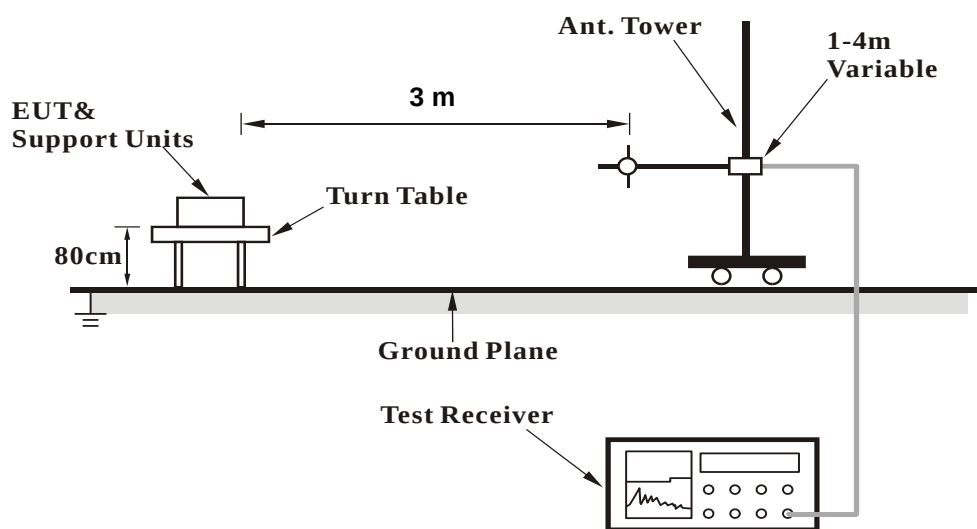
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

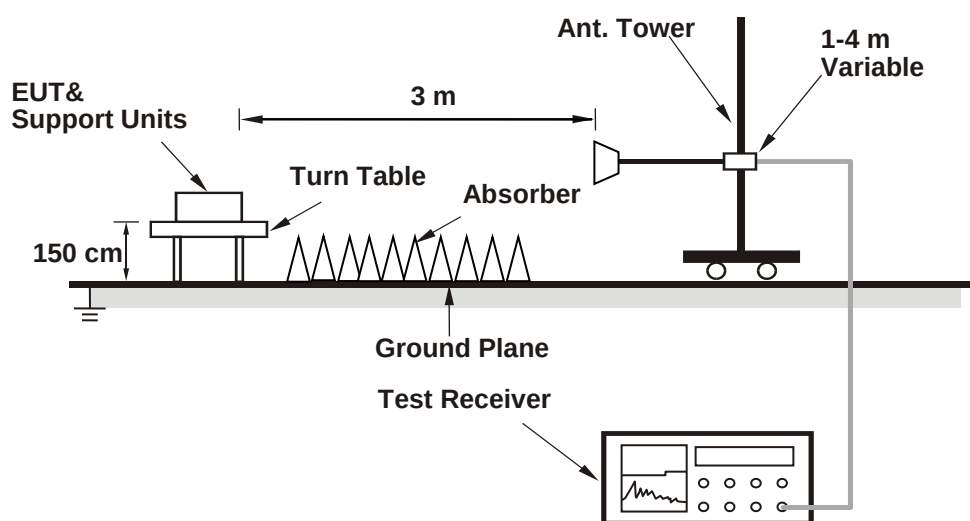
No deviation.

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:

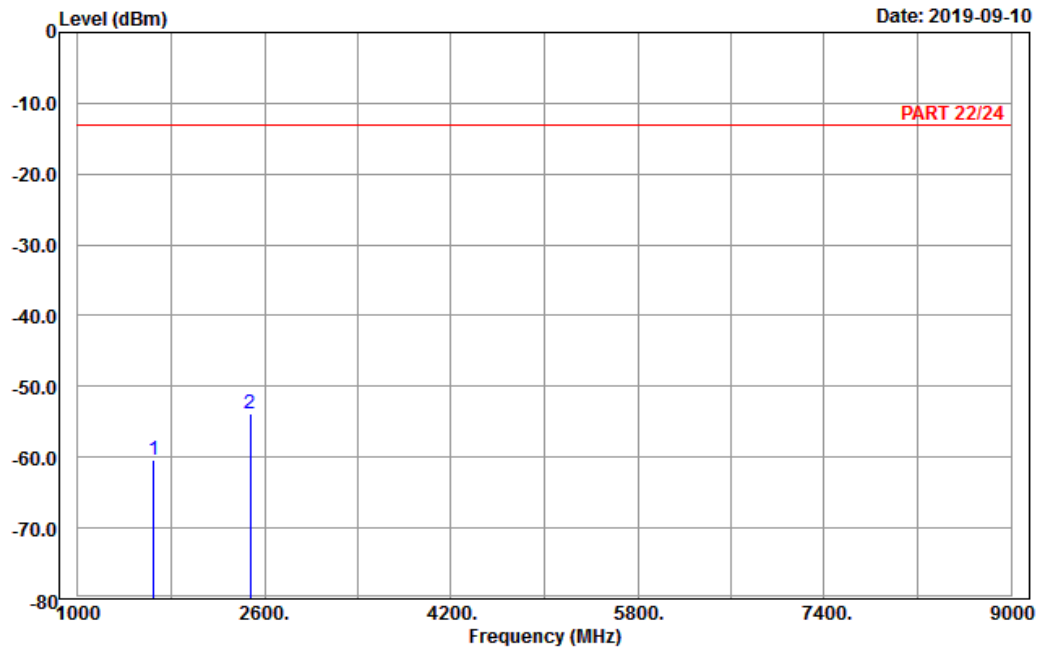
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band V_Link_L-Ch
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1652.80	-60.33	-68.06	7.73	-13.00	-47.33	Peak
2 pp	2479.20	-53.95	-64.98	11.03	-13.00	-40.95	Peak

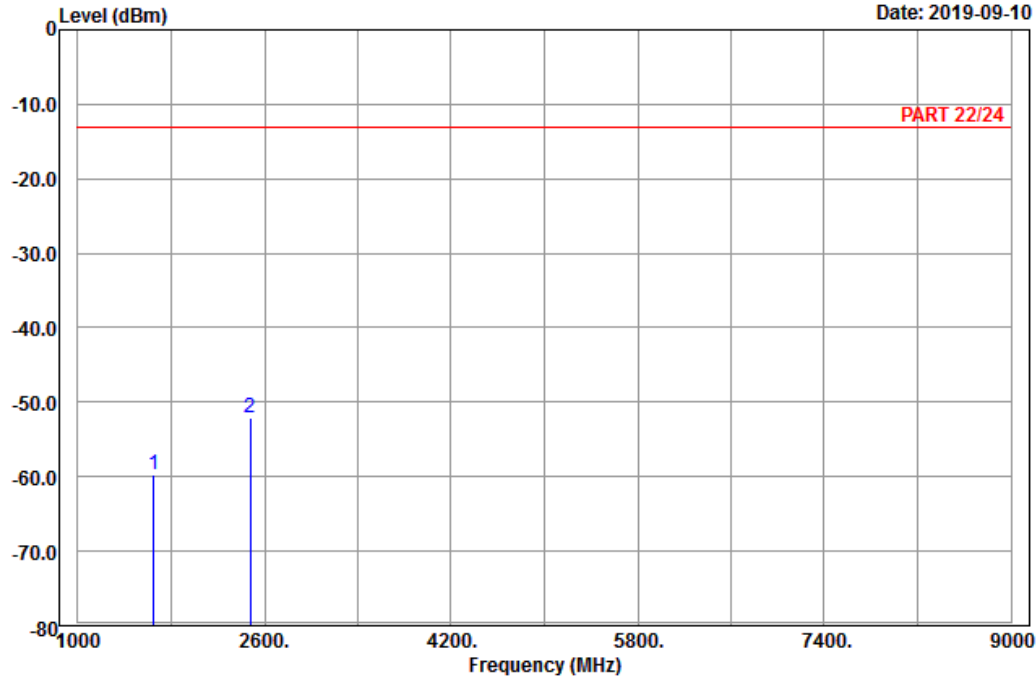


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-10



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : Band V_Link_L-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1652.80	-59.62	-67.35	7.73	-13.00	-46.62	Peak
2 pp	2479.20	-51.99	-63.02	11.03	-13.00	-38.99	Peak

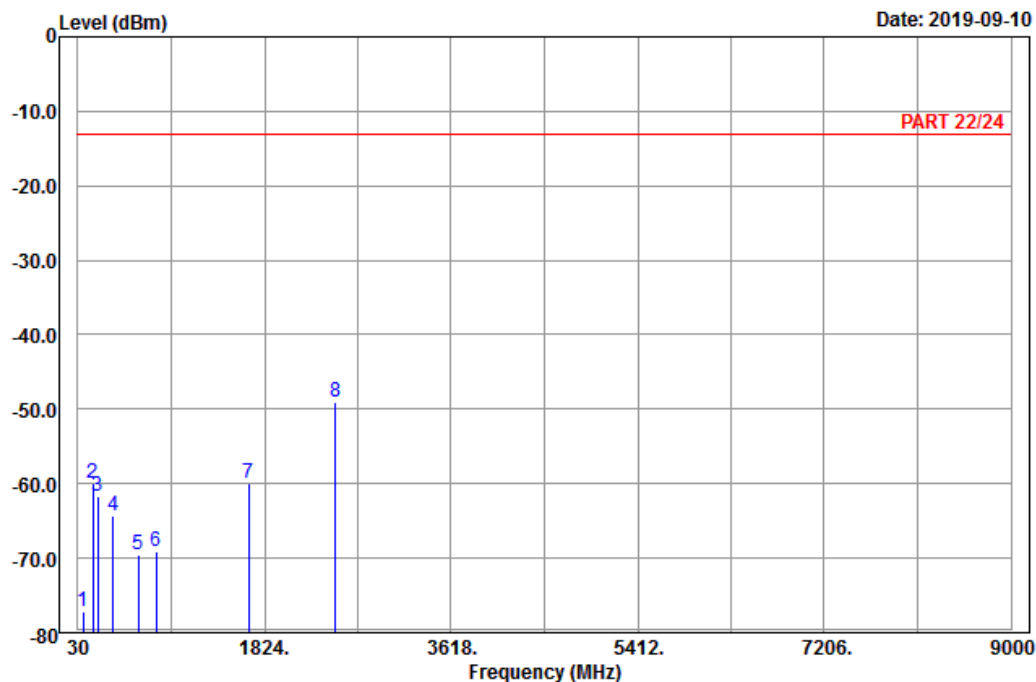
Middle Channel



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A D T

Data: 9



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band V_Link_M-Ch
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	80.22	-77.16	-65.39	-11.77	-13.00	-64.16	Peak
2	171.48	-59.94	-53.44	-6.50	-13.00	-46.94	Peak
3	223.05	-61.72	-55.85	-5.87	-13.00	-48.72	Peak
4	372.80	-64.21	-60.02	-4.19	-13.00	-51.21	Peak
5	612.90	-69.48	-69.76	0.28	-13.00	-56.48	Peak
6	782.30	-69.21	-70.07	0.86	-13.00	-56.21	Peak
7	1672.80	-60.02	-67.93	7.91	-13.00	-47.02	Peak
8 pp	2509.20	-49.01	-60.29	11.28	-13.00	-36.01	Peak

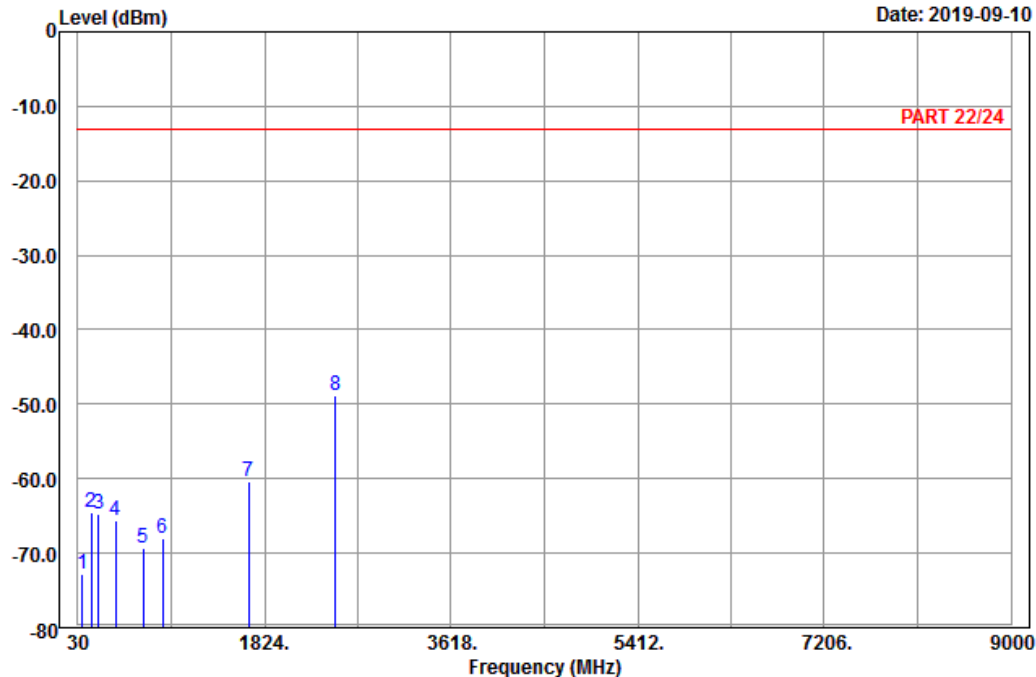


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2019-09-10



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : Band V_Link_M-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	73.74	-72.71	-60.36	-12.35	-13.00	-59.71	Peak
2	156.36	-64.59	-56.81	-7.78	-13.00	-51.59	Peak
3	230.34	-64.73	-58.96	-5.77	-13.00	-51.73	Peak
4	391.70	-65.68	-62.53	-3.15	-13.00	-52.68	Peak
5	658.40	-69.34	-69.16	-0.18	-13.00	-56.34	Peak
6	841.80	-67.96	-69.50	1.54	-13.00	-54.96	Peak
7	1672.80	-60.33	-68.24	7.91	-13.00	-47.33	Peak
8 pp	2509.20	-48.79	-60.07	11.28	-13.00	-35.79	Peak

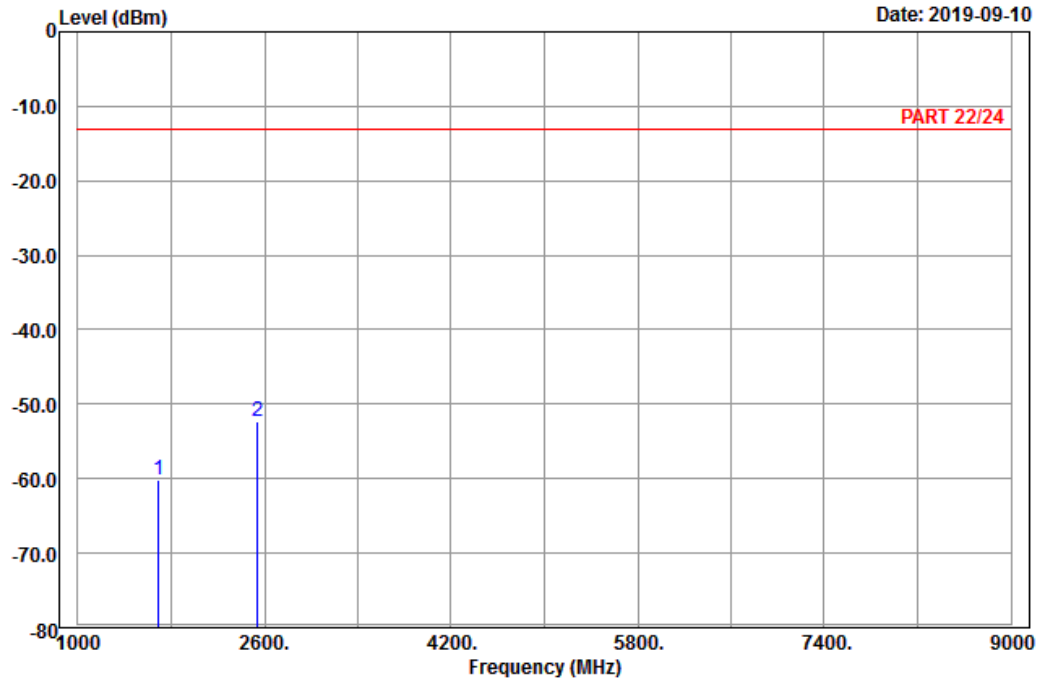
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 6



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : Band V_Link_H-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1693.20	-60.08	-68.22	8.14	-13.00	-47.08	Peak
2 pp	2539.80	-52.23	-63.70	11.47	-13.00	-39.23	Peak

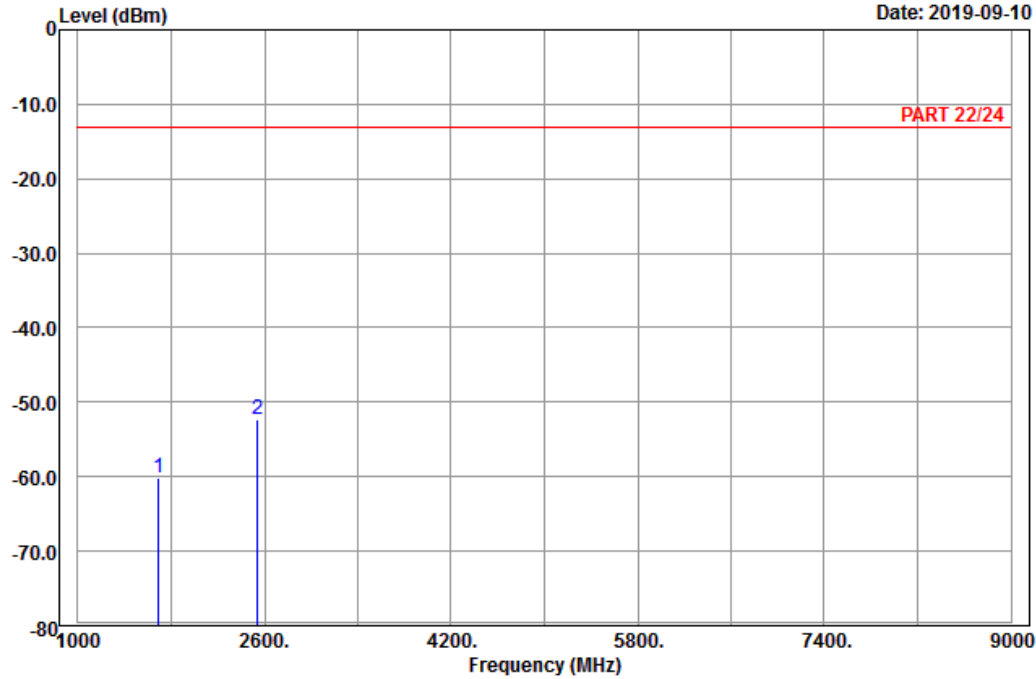


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-09-10



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Band V_Link_H-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1693.20	-60.10	-68.24	8.14	-13.00	-47.10	Peak
2 pp	2539.80	-52.27	-63.74	11.47	-13.00	-39.27	Peak

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

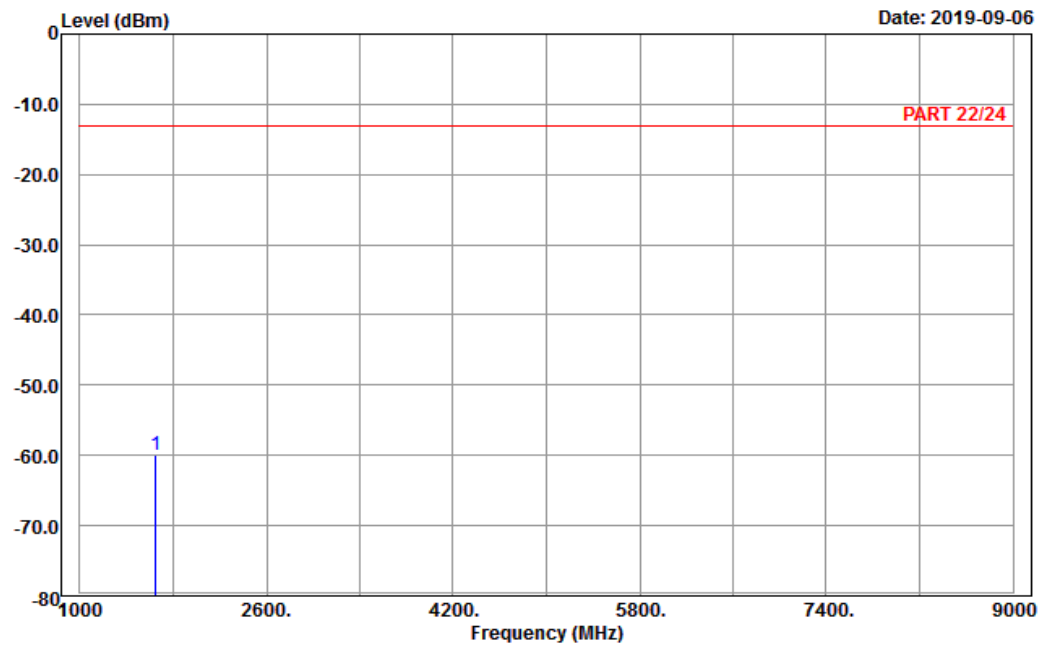


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5 _Link_L-Ch
Tested by: Charles Hsiao

		Read		Limit	Over	
Freq	Level	Level	Factor	Line	Limit	Remark
MHz	dBm	dBm	dB	dBm	dB	
1 pp 1649.40	-60.04	-67.77	7.73	-13.00	-47.04	Peak

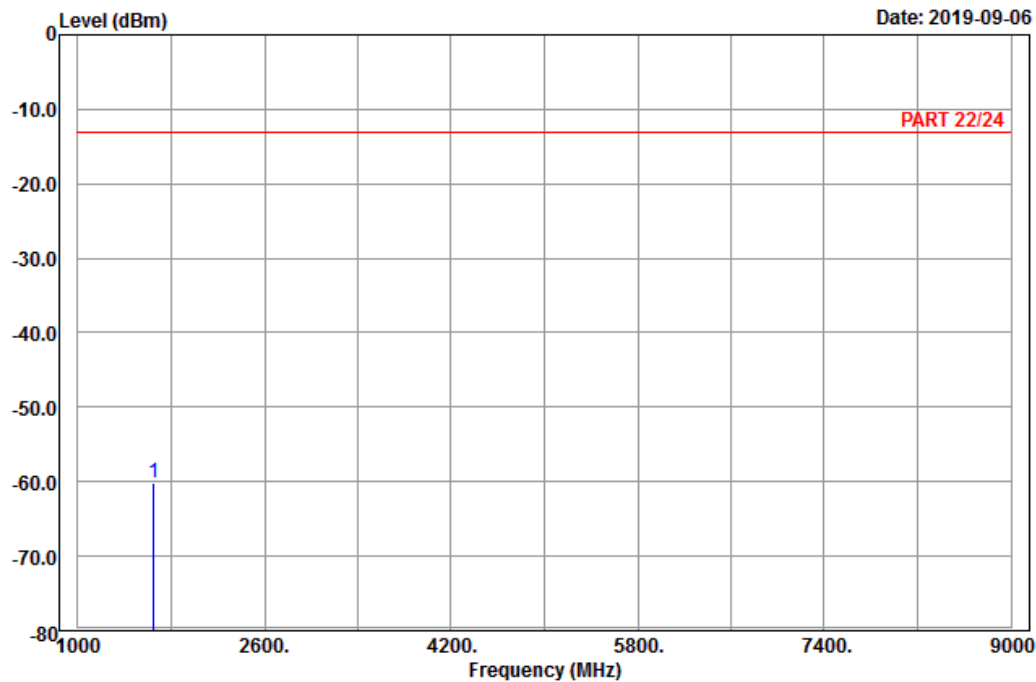


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_L-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1649.40	-60.22	-67.95	7.73	-13.00	-47.22	Peak

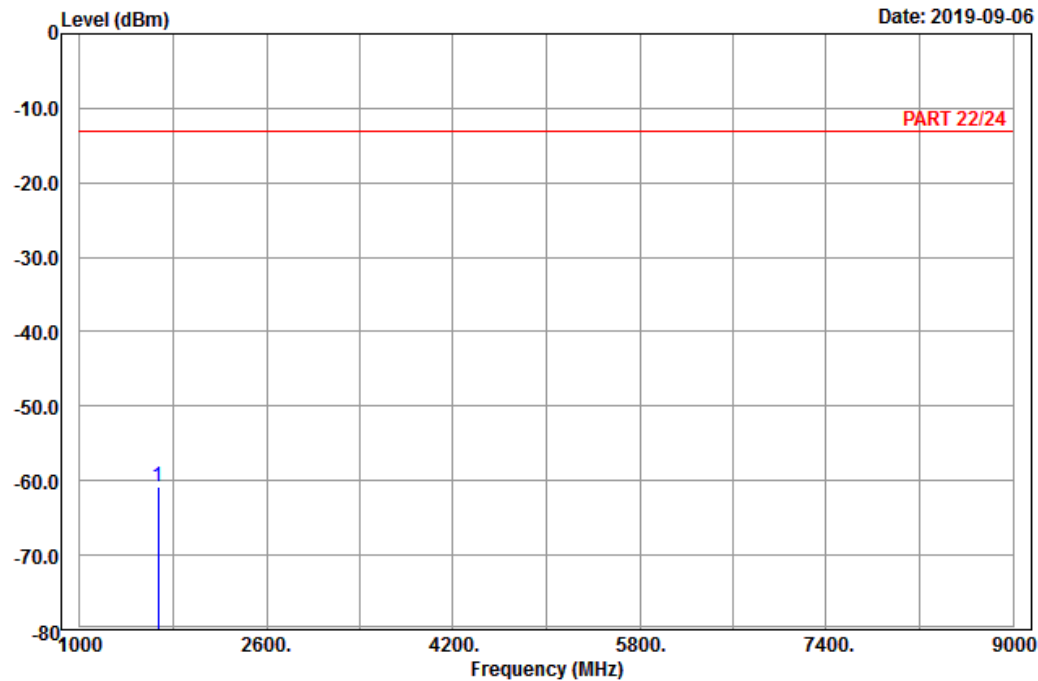
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5 _Link_M-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-60.74	-68.65	7.91	-13.00	-47.74	Peak

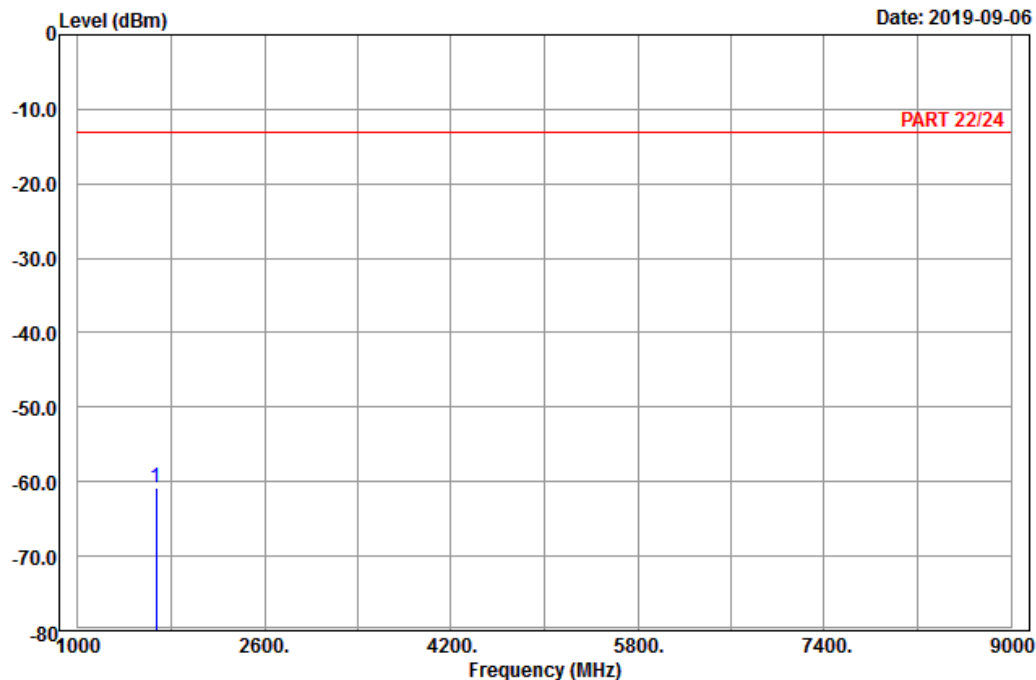


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-60.85	-68.76	7.91	-13.00	-47.85	Peak

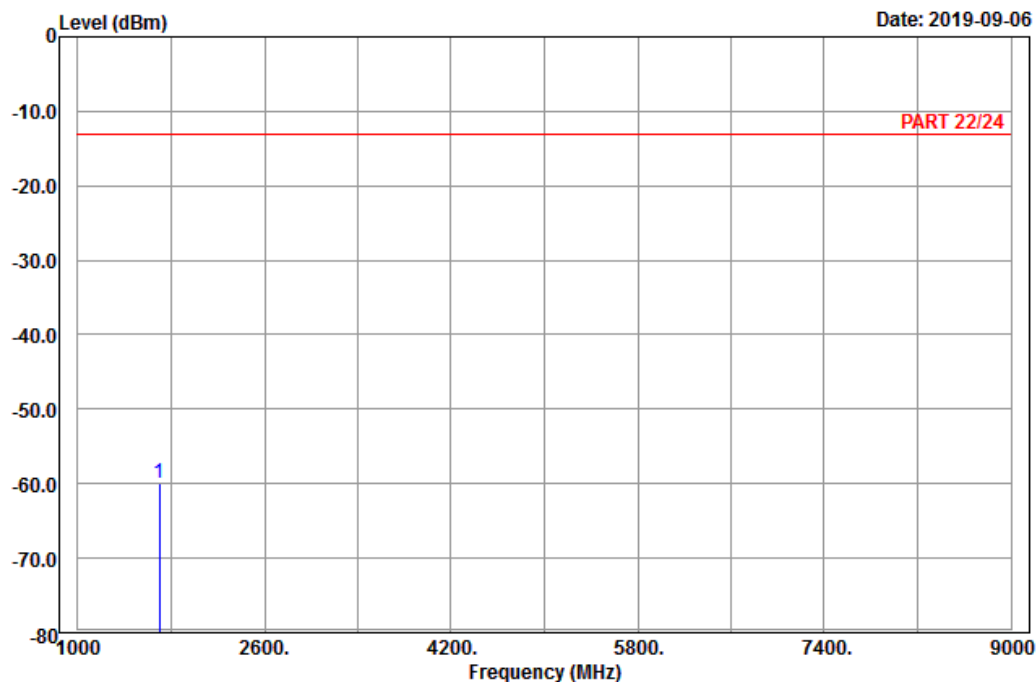
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5_Link_H-Ch
Tested by: Charles Hsiao

		Read	Limit	Over	
Freq	Level	Level	Factor	Line	Limit Remark
MHz	dBm	dBm	dB	dBm	dB
1 pp 1696.60	-60.00	-68.14	8.14	-13.00	-47.00 Peak

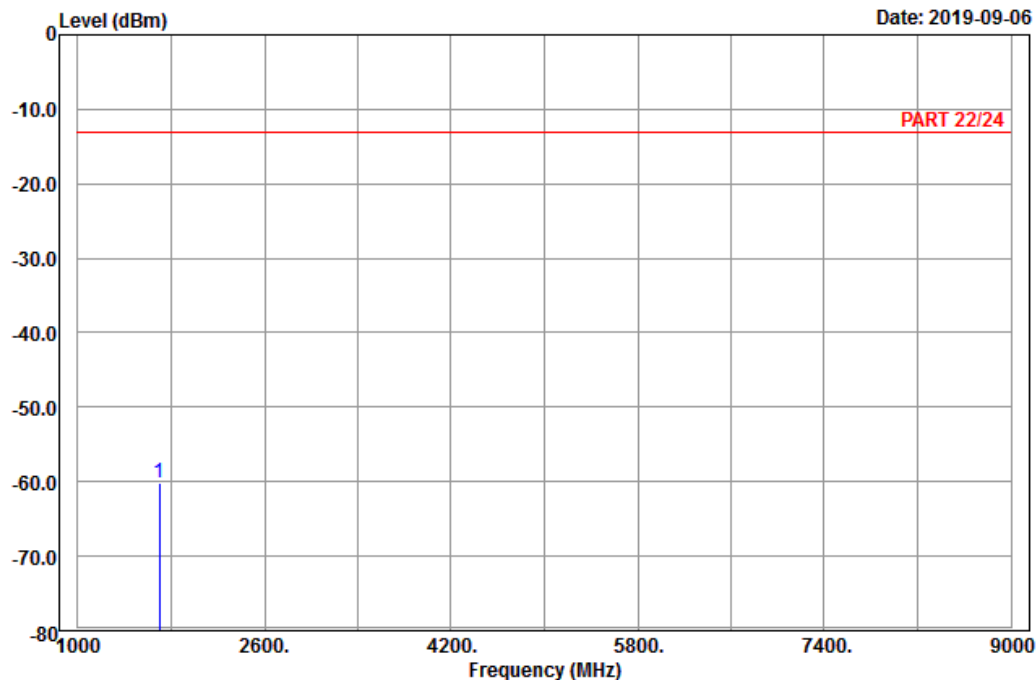


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_H-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1696.60	-60.24	-68.38	8.14	-13.00	-47.24	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

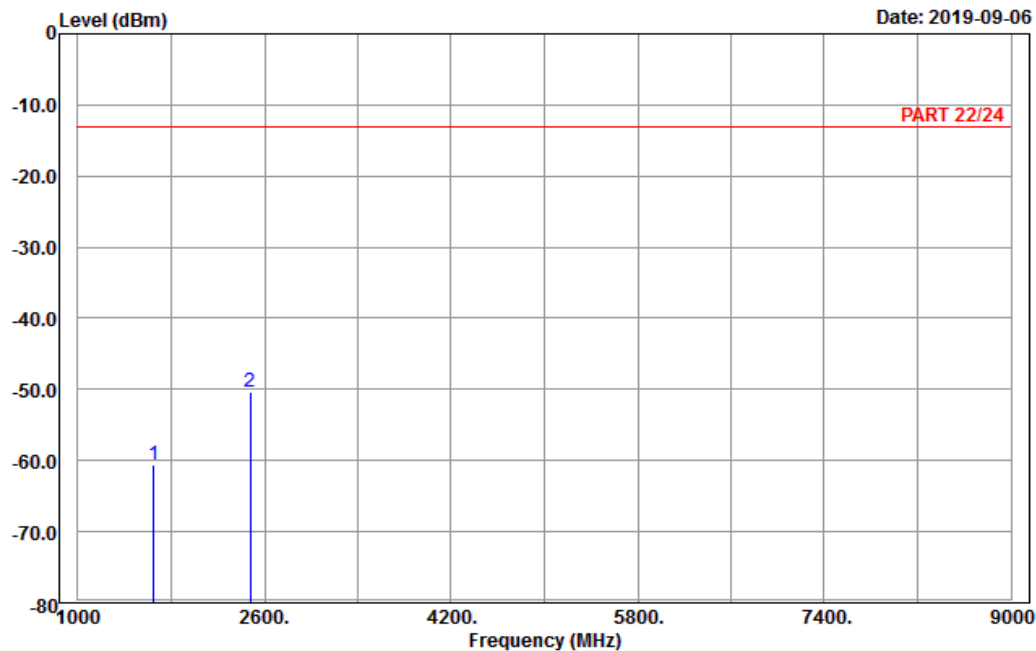


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5 _Link_L-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1653.00	-60.66	-68.39	7.73	-13.00	-47.66	Peak
2 pp	2479.50	-50.34	-61.37	11.03	-13.00	-37.34	Peak

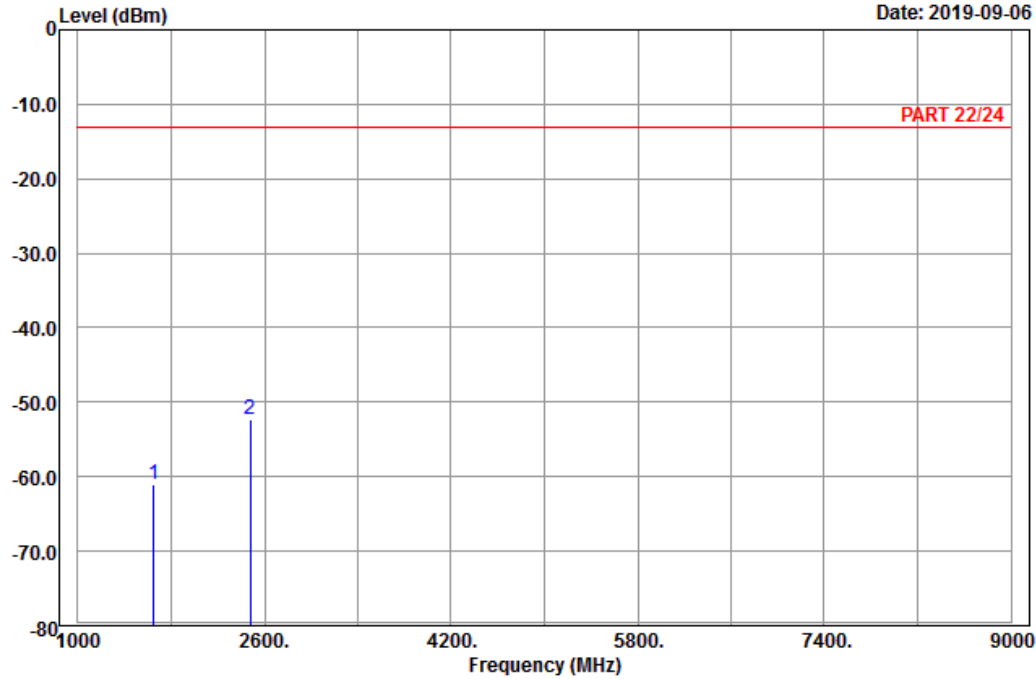


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_L-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1653.00	-61.10	-68.83	7.73	-13.00	-48.10	Peak
2 pp	2479.50	-52.23	-63.26	11.03	-13.00	-39.23	Peak

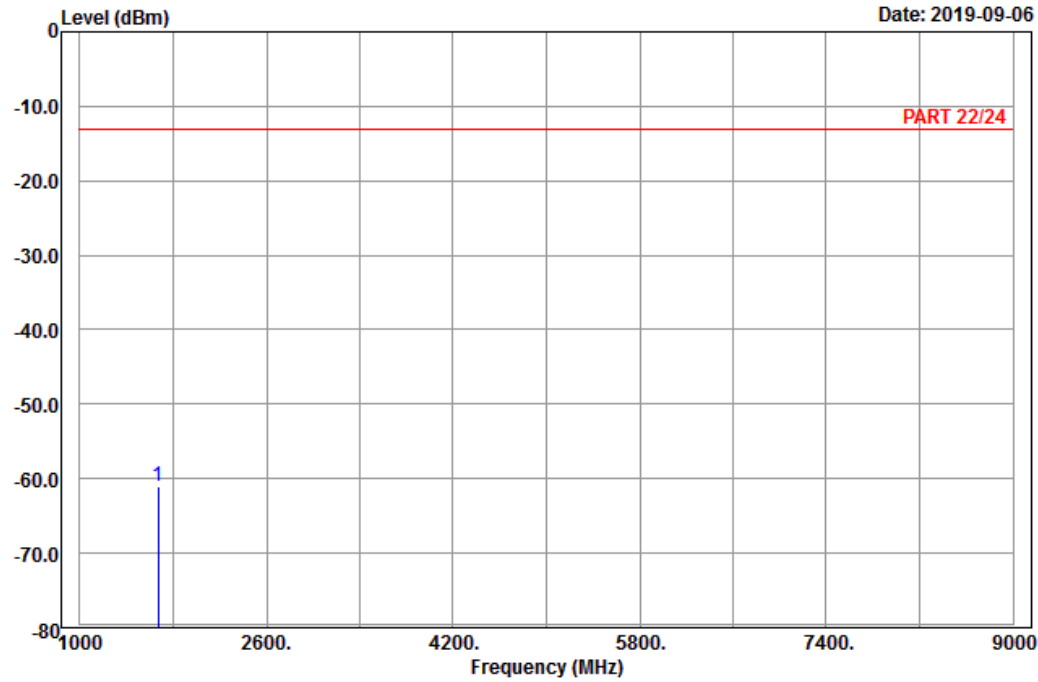
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-61.01	-68.92	7.91	-13.00	-48.01	Peak

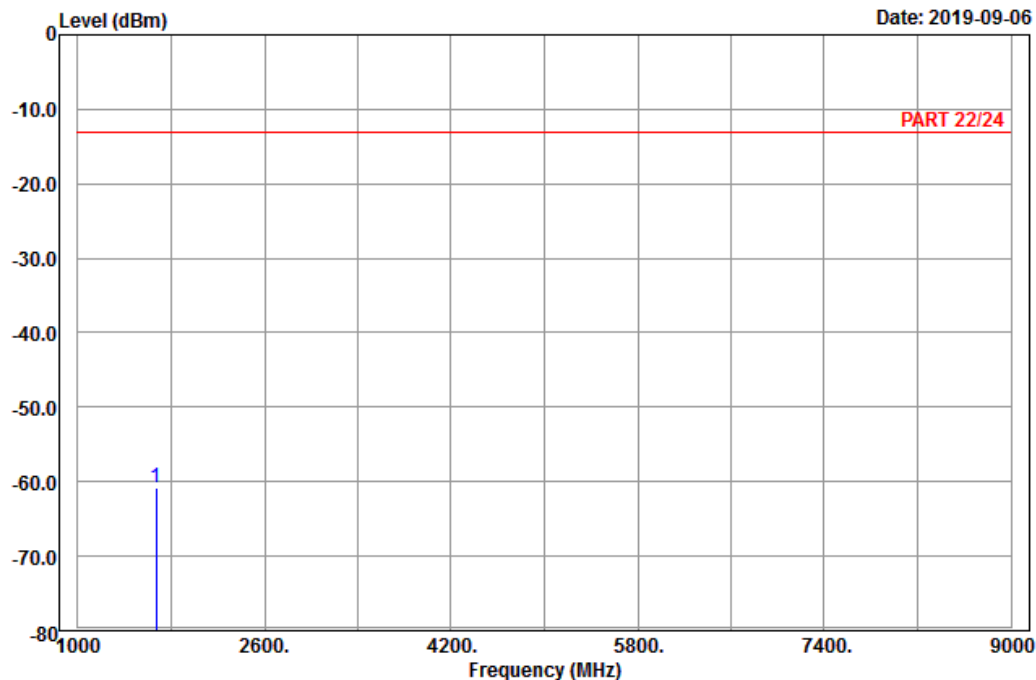


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-60.78	-68.69	7.91	-13.00	-47.78	Peak

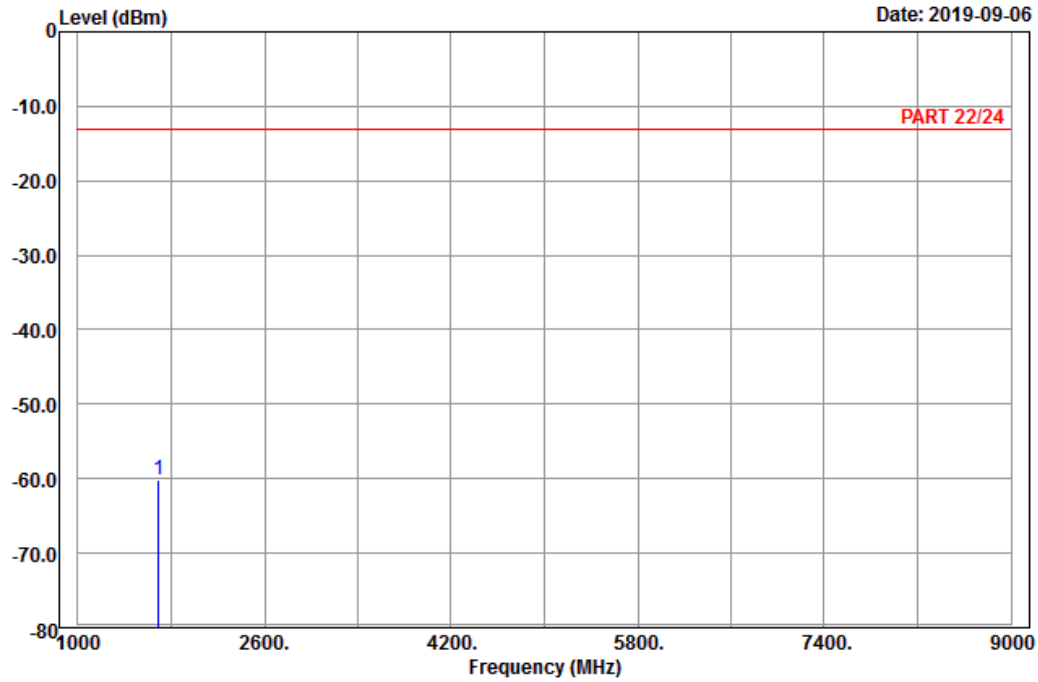
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5_Link_H-Ch
Tested by: Charles Hsiao

		Read	Limit	Over	
Freq	Level	Level	Factor	Line	Limit Remark
MHz	dBm	dBm	dB	dBm	dB
1 pp 1693.00	-60.27	-68.29	8.02	-13.00	-47.27 Peak

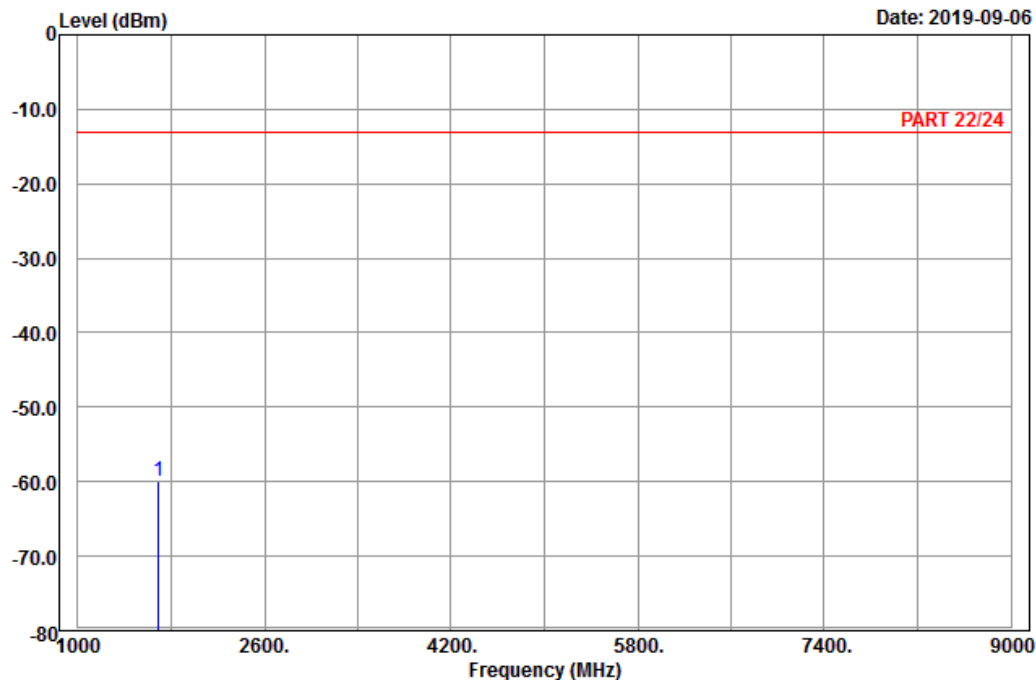


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_H-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1693.00	-59.93	-67.95	8.02	-13.00	-46.93	Peak

Channel Bandwidth: 10 MHz / QPSK
Low Channel

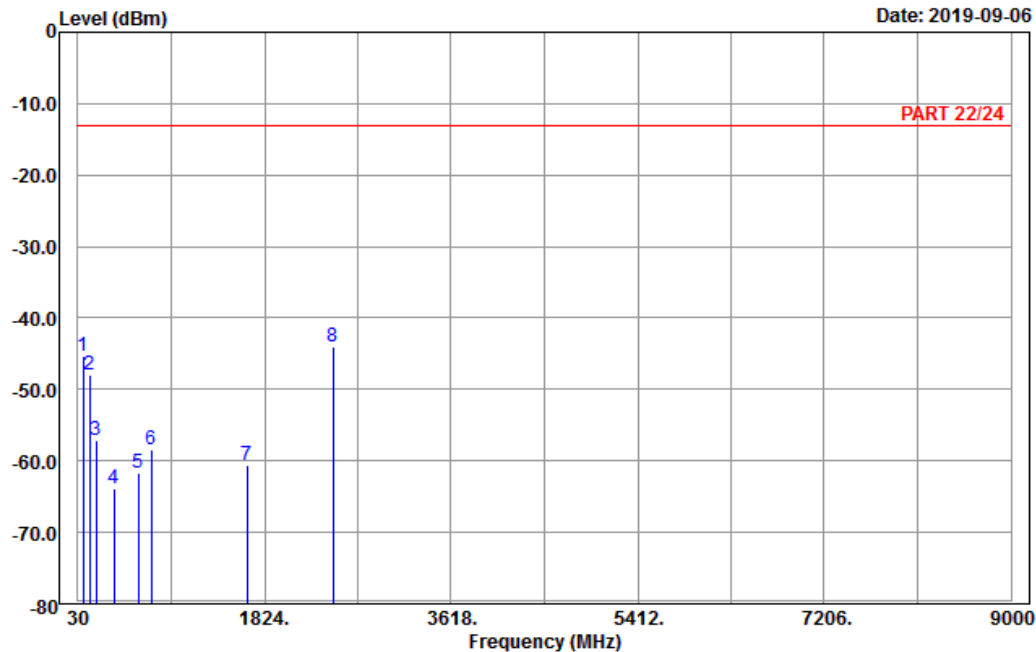


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5_Link_L-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	84.27	-45.43	-34.10	-11.33	-13.00	-32.43	Peak
2	146.64	-47.87	-40.01	-7.86	-13.00	-34.87	Peak
3	209.01	-57.22	-51.17	-6.05	-13.00	-44.22	Peak
4	374.90	-63.92	-59.89	-4.03	-13.00	-50.92	Peak
5	609.40	-61.61	-61.94	0.33	-13.00	-48.61	Peak
6	734.00	-58.45	-57.43	-1.02	-13.00	-45.45	Peak
7	1658.00	-60.64	-68.55	7.91	-13.00	-47.64	Peak
8 pp	2487.00	-44.12	-55.16	11.04	-13.00	-31.12	Peak

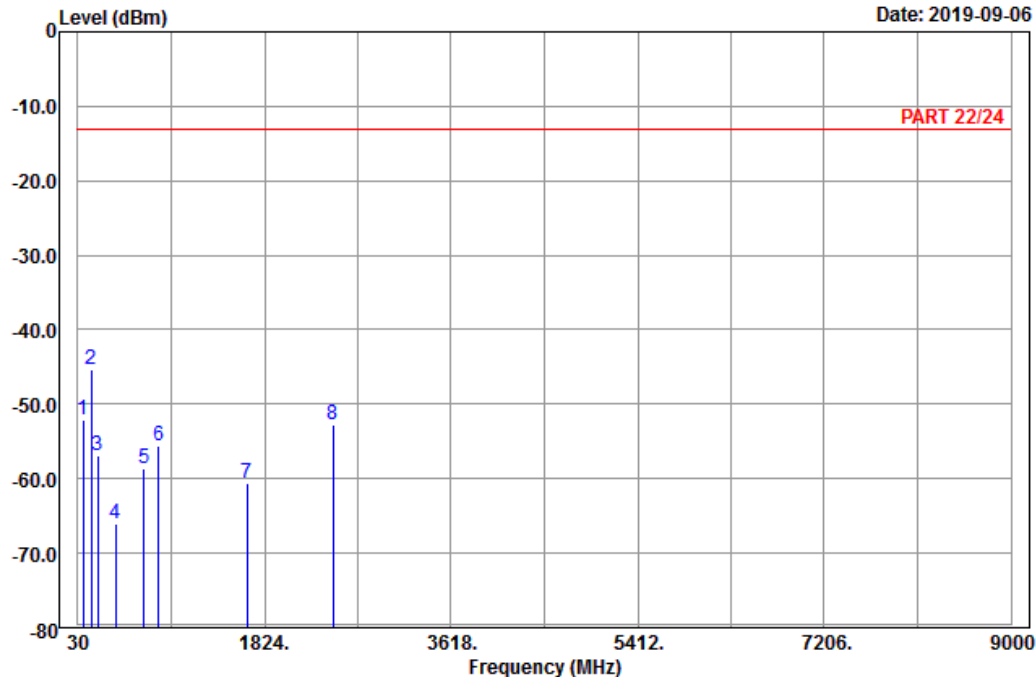


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_L-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	84.54	-52.11	-40.78	-11.33	-13.00	-39.11	Peak
2	pp 161.76	-45.42	-37.95	-7.47	-13.00	-32.42	Peak
3	221.97	-56.85	-50.97	-5.88	-13.00	-43.85	Peak
4	395.90	-65.95	-63.00	-2.95	-13.00	-52.95	Peak
5	669.60	-58.60	-58.37	-0.23	-13.00	-45.60	Peak
6	804.70	-55.65	-57.61	1.96	-13.00	-42.65	Peak
7	1658.00	-60.65	-68.56	7.91	-13.00	-47.65	Peak
8	2487.00	-52.77	-63.81	11.04	-13.00	-39.77	Peak

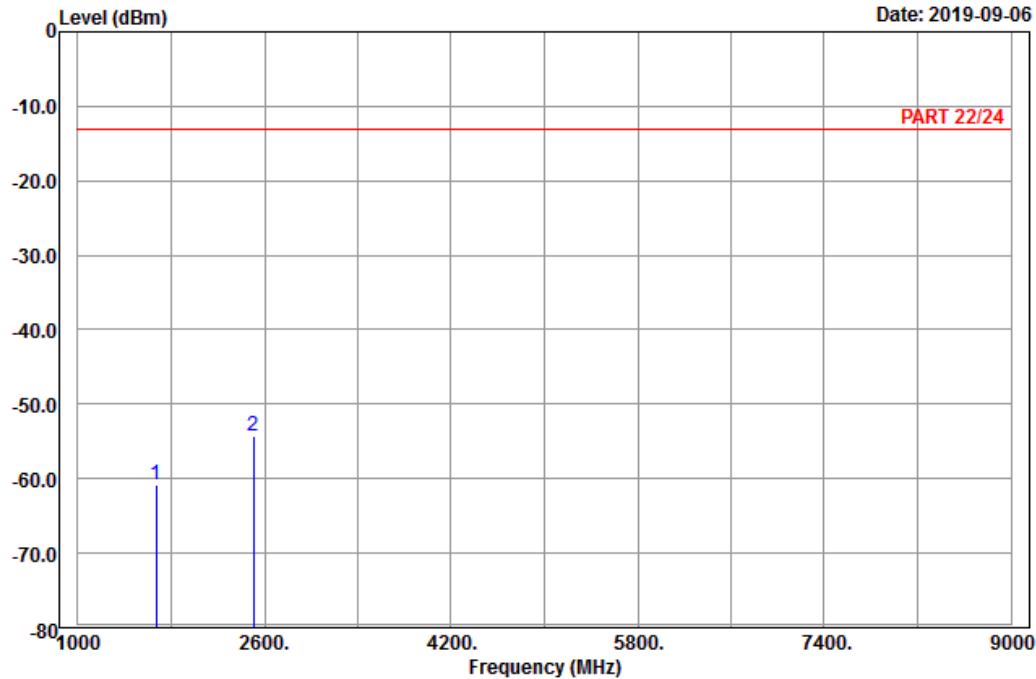
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.00	-60.88	-68.79	7.91	-13.00	-47.88	Peak
2 pp	2509.50	-54.31	-65.59	11.28	-13.00	-41.31	Peak

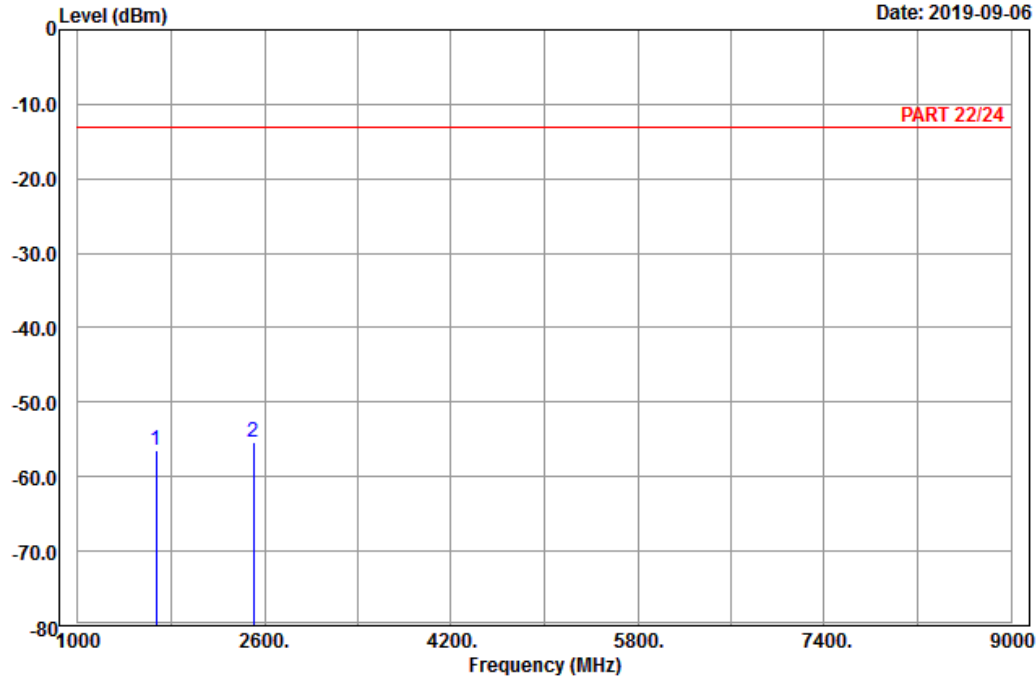


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.00	-56.44	-64.35	7.91	-13.00	-43.44	Peak
2 pp	2509.50	-55.35	-66.63	11.28	-13.00	-42.35	Peak

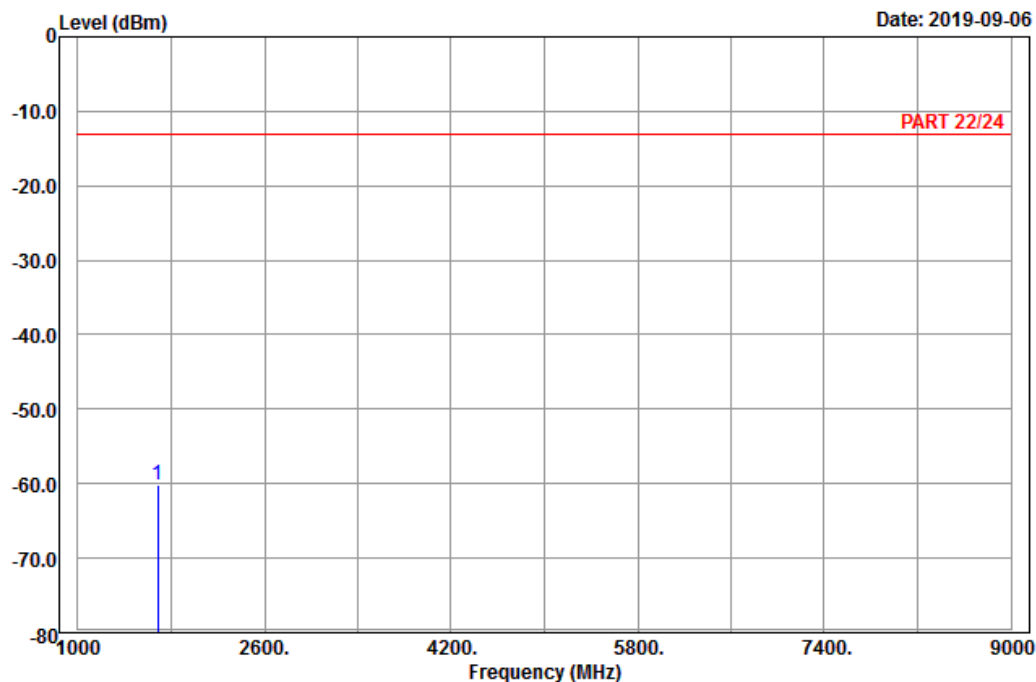
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_H-Ch
 Tested by: Charles Hsiao

		Read		Limit	Over	
Freq	Level	Level	Factor	Line	Limit	Remark
MHz	dBm	dBm	dB	dBm	dB	
1 pp 1688.00	-60.25	-68.27	8.02	-13.00	-47.25	Peak

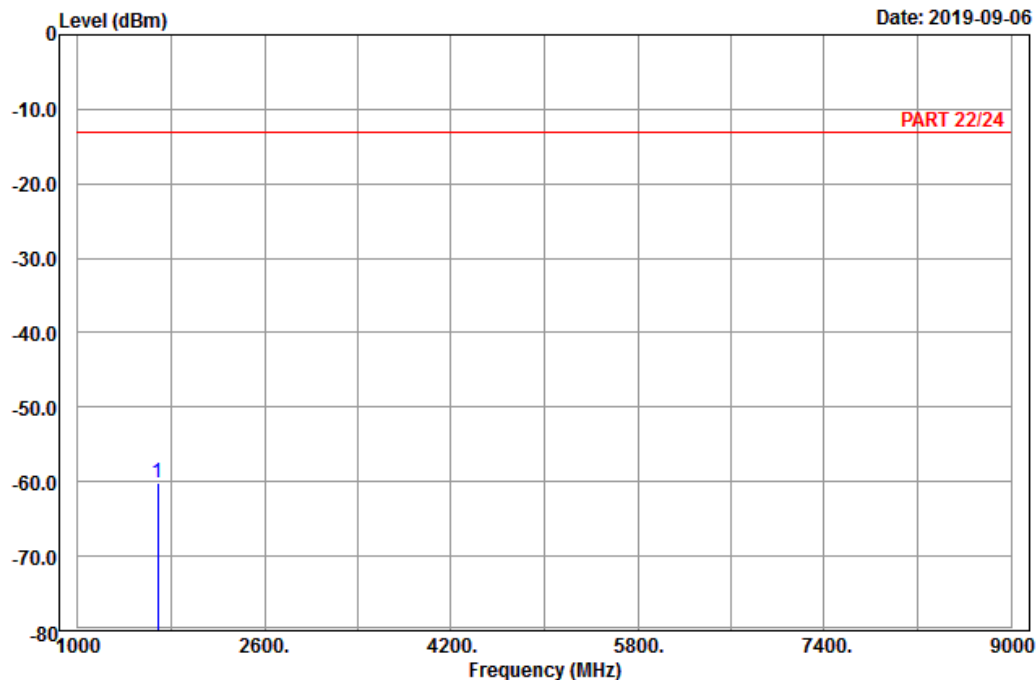


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_H-Ch
Tested by: Charles Hsiao

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1688.00	-60.14	-68.16	8.02	-13.00	-47.14	Peak

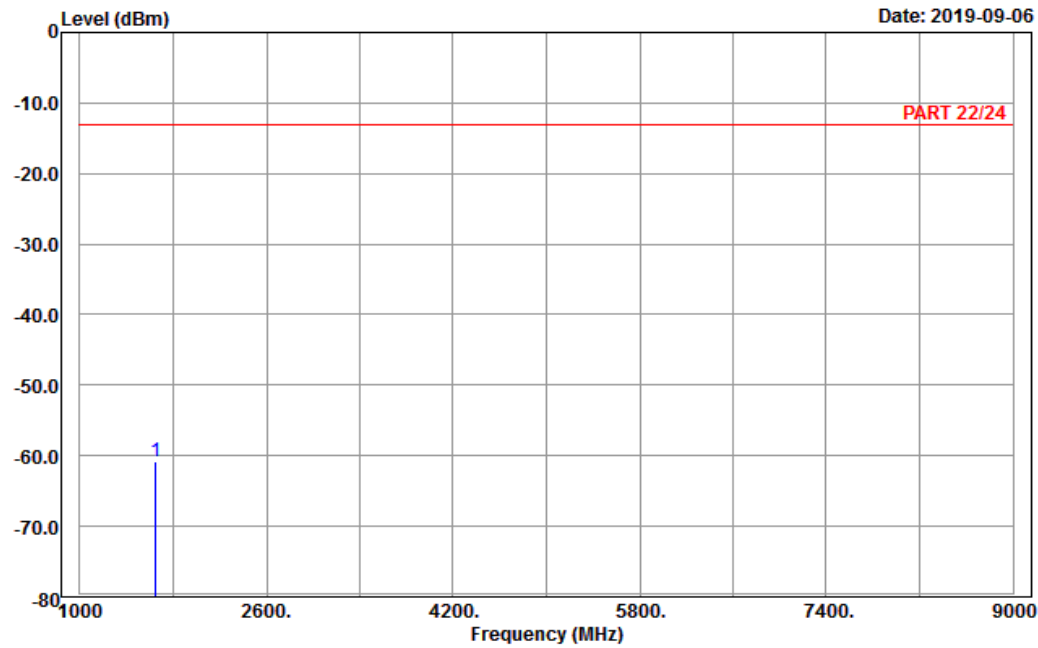
LTE Band 26
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	pp 1649.40	-60.77	-68.50	7.73	-13.00	-47.77	Peak

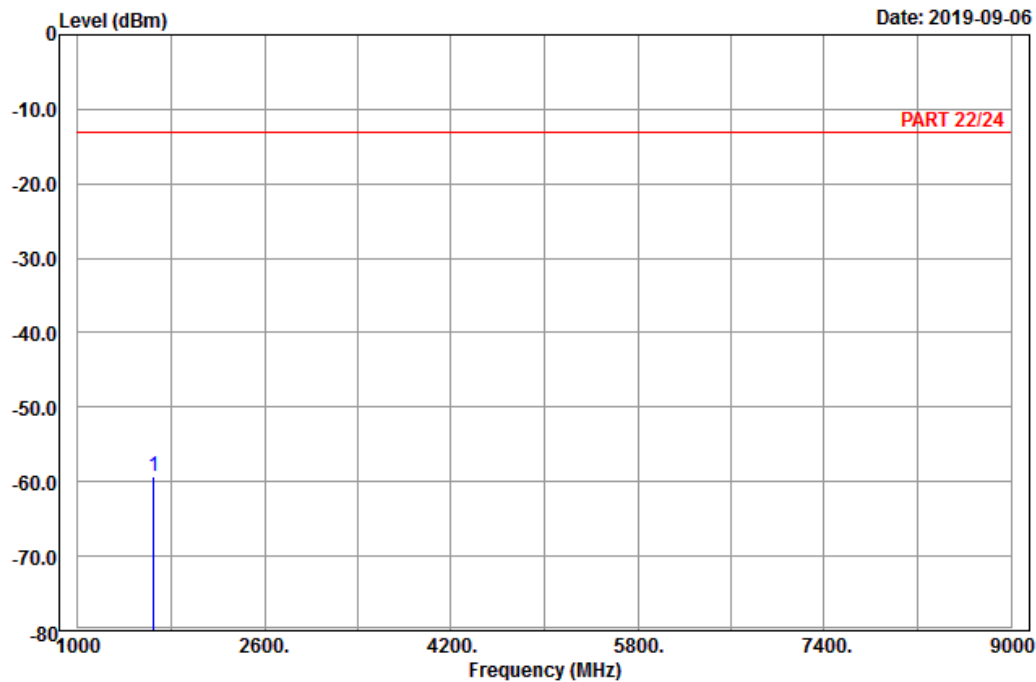


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1649.40	-59.33	-67.06	7.73	-13.00	-46.33	Peak

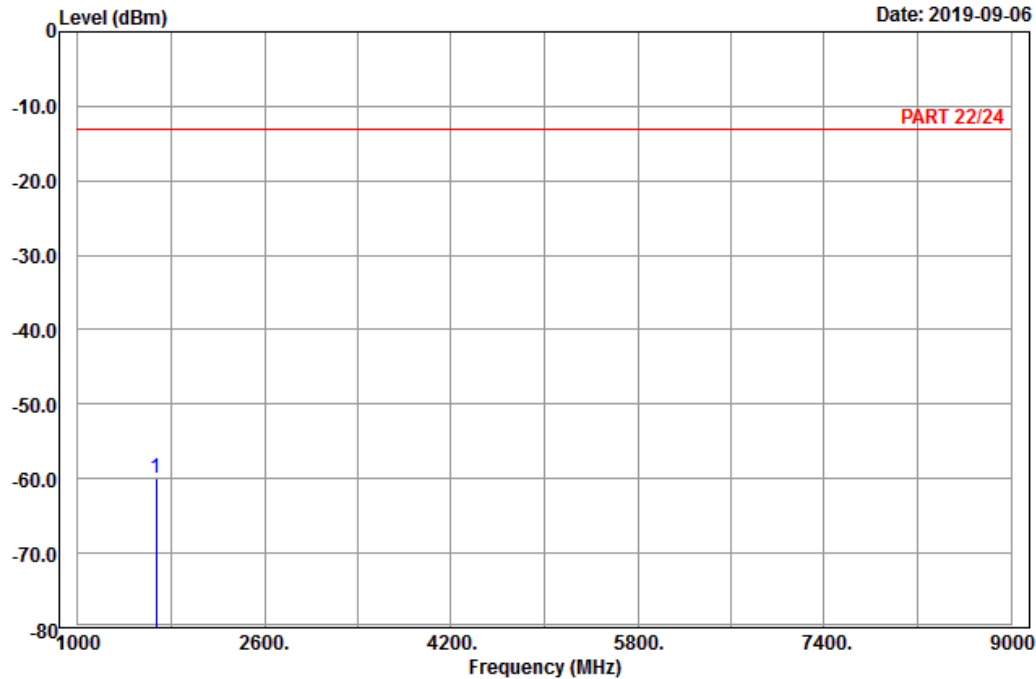
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26 _Link_M-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-59.88	-67.79	7.91	-13.00	-46.88	Peak

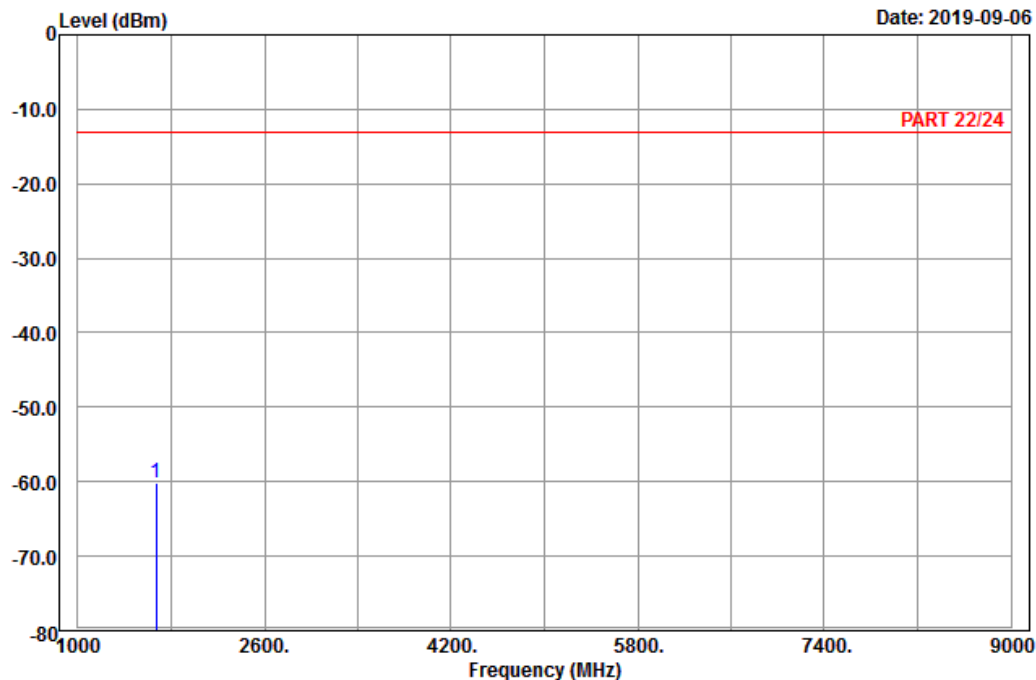


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-60.22	-68.13	7.91	-13.00	-47.22	Peak

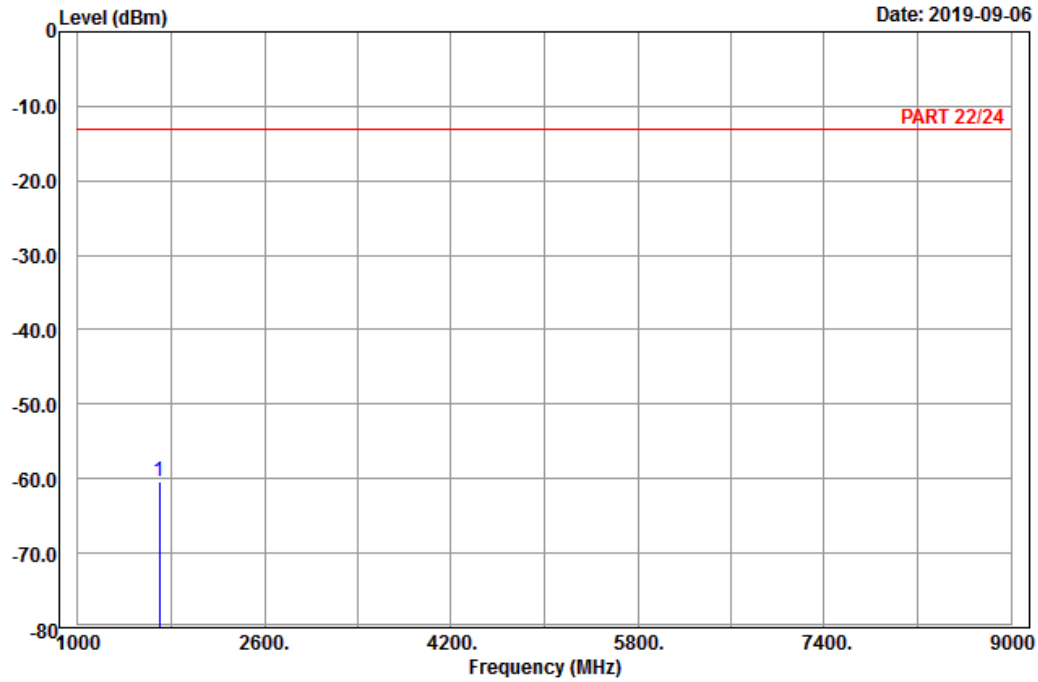
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1696.60	-60.42	-68.56	8.14	-13.00	-47.42	Peak

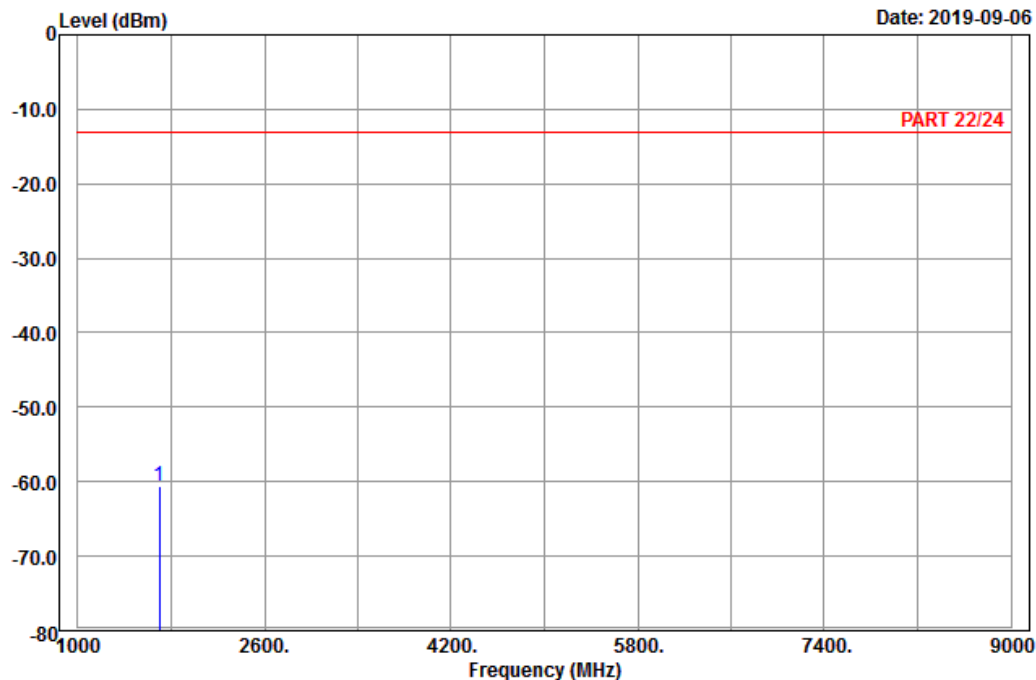


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1696.60	-60.67	-68.81	8.14	-13.00	-47.67	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

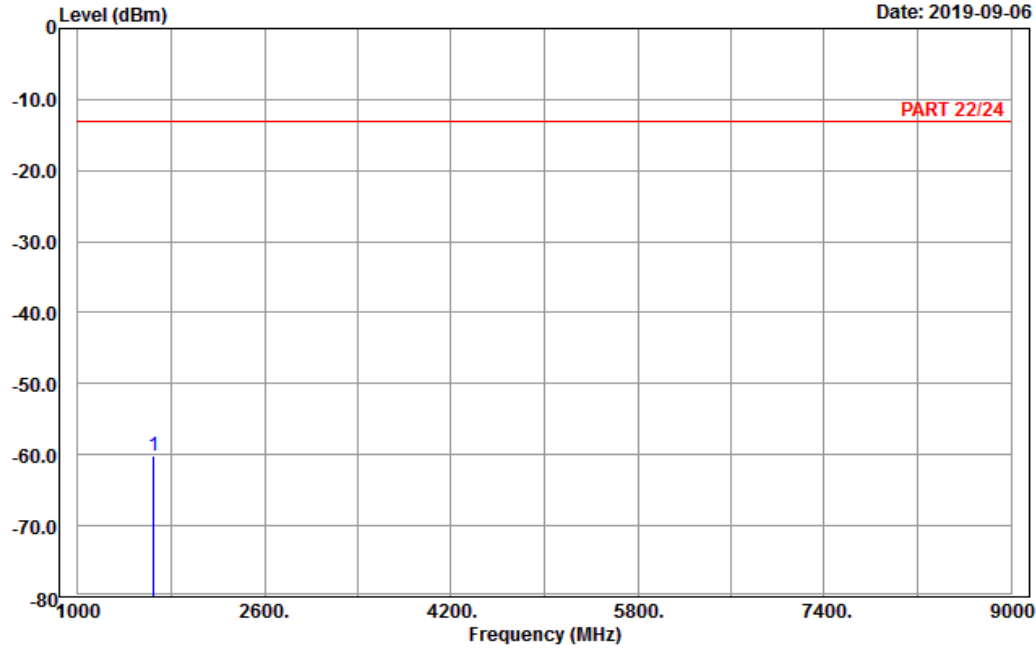


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1653.00	-60.22	-67.95	7.73	-13.00	-47.22	Peak

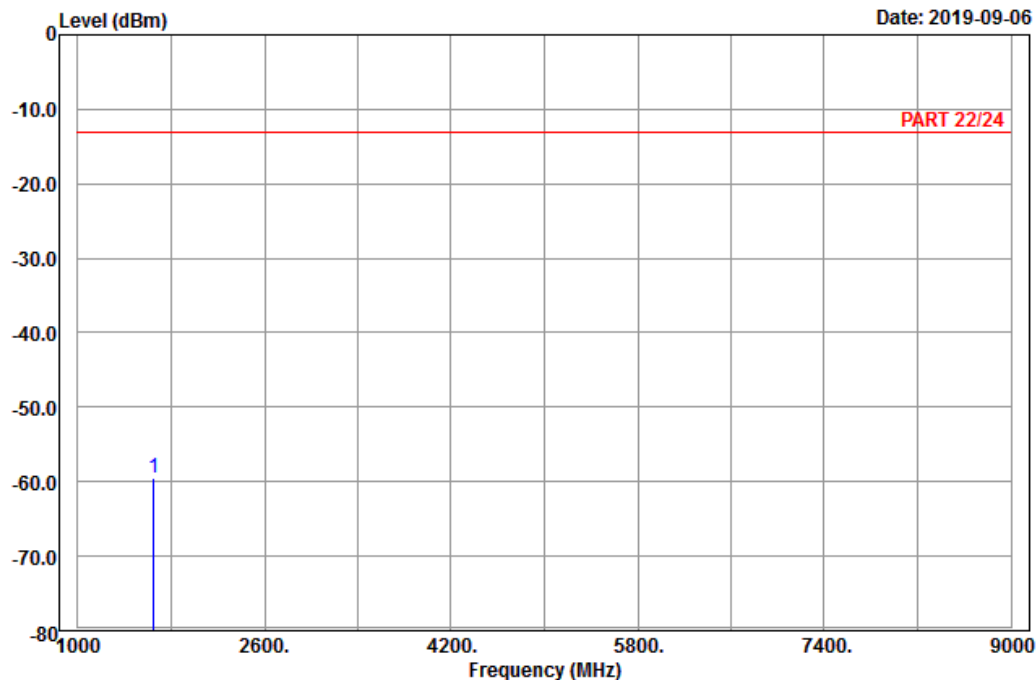


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1653.00	-59.46	-67.19	7.73	-13.00	-46.46	Peak

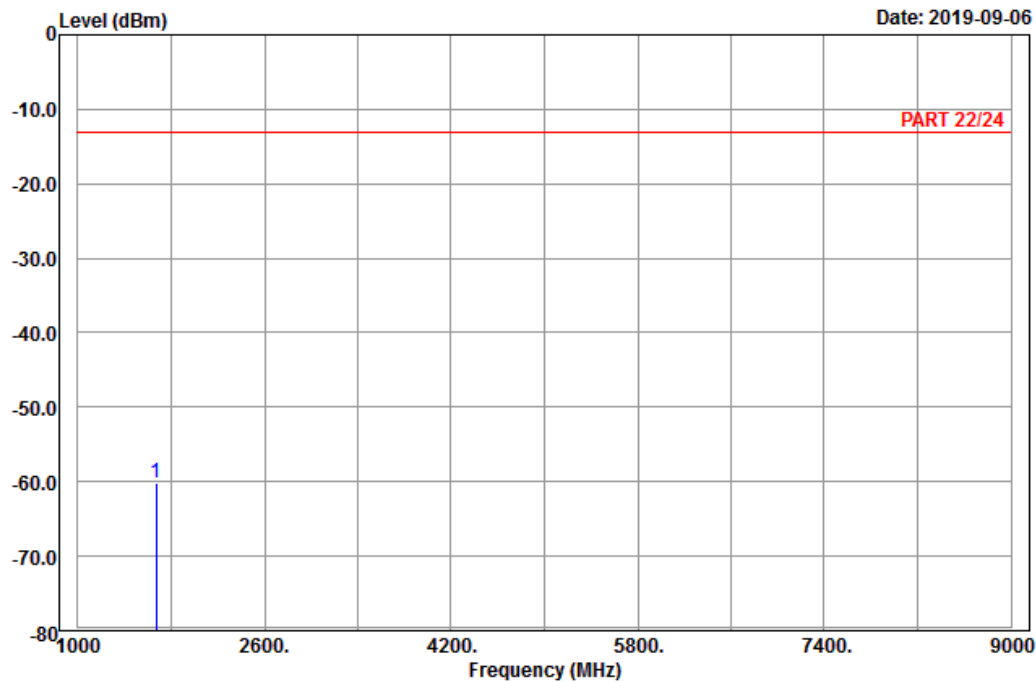


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-60.06	-67.97	7.91	-13.00	-47.06	Peak

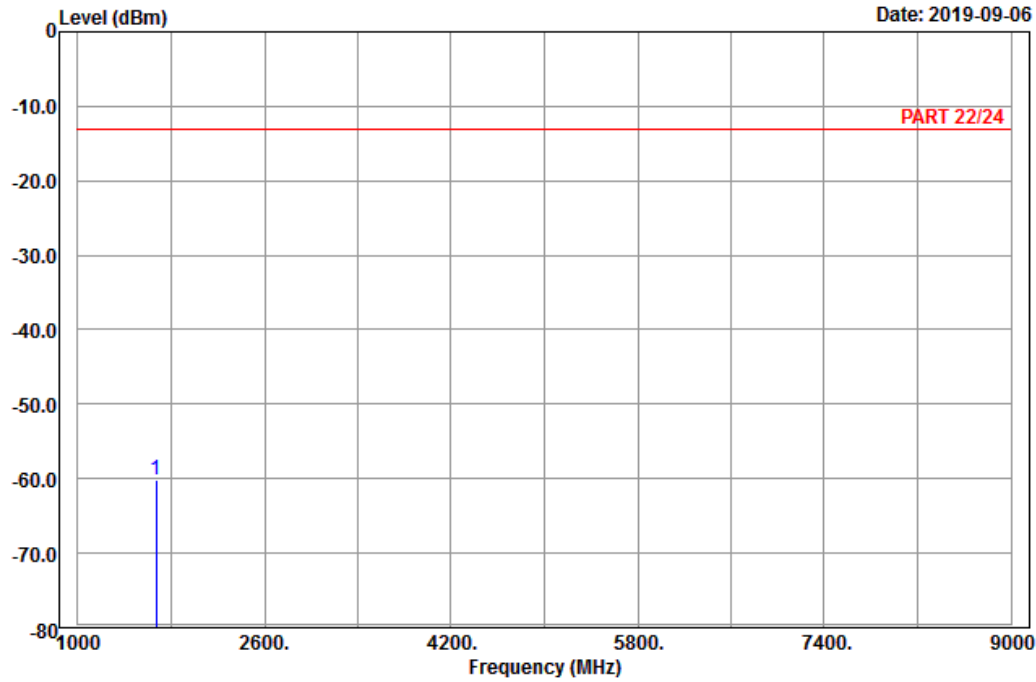
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_M-Ch
Tested by: Karl Lee

		Read	Limit	Over	
Freq	Level	Level	Factor	Line	Limit Remark
MHz	dBm	dBm	dB	dBm	dB
1 pp 1673.00	-60.06	-67.97	7.91	-13.00	-47.06 Peak

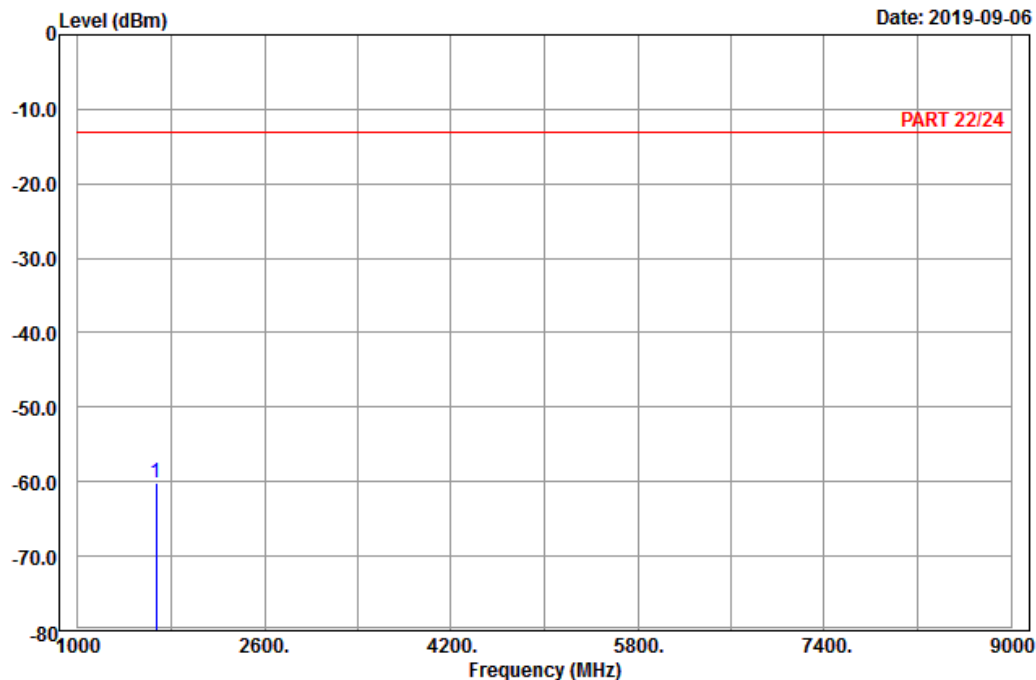


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1673.00	-60.18	-68.09	7.91	-13.00	-47.18	Peak

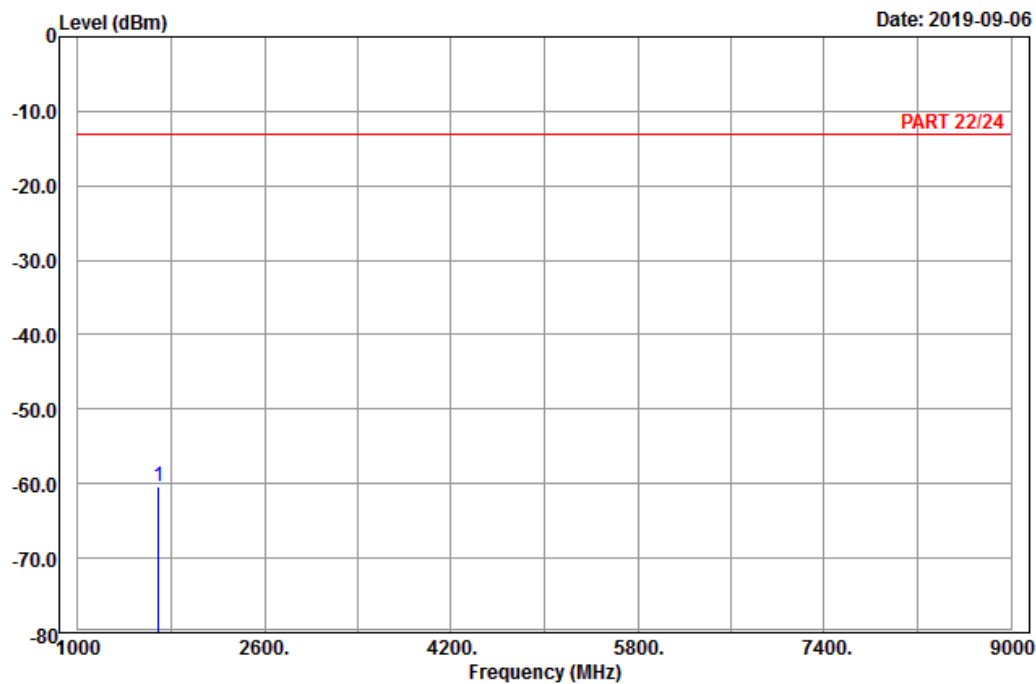
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26 _Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1693.00	-60.42	-68.44	8.02	-13.00	-47.42	Peak

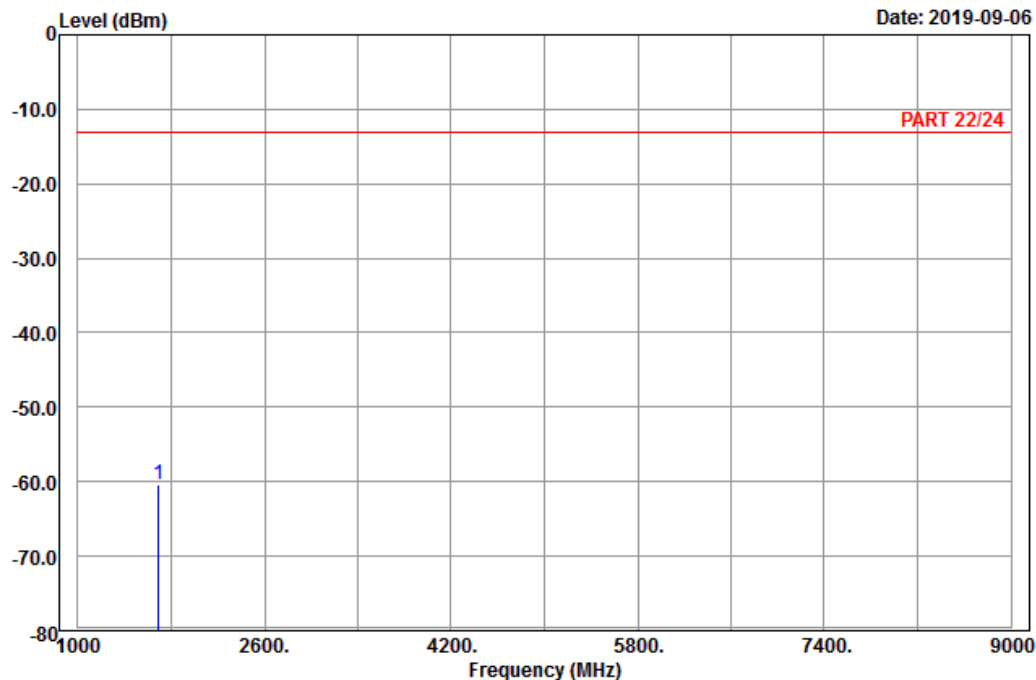


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1693.00	-60.46	-68.48	8.02	-13.00	-47.46	Peak

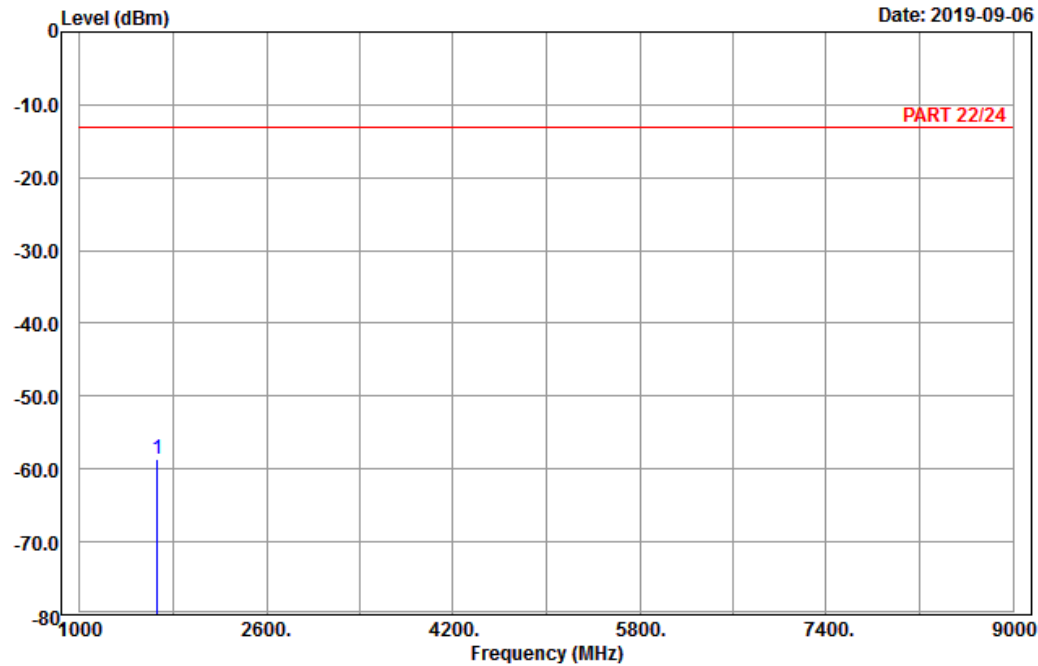
Channel Bandwidth: 15 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_L-Ch
Tested by: Karl Lee

		Read	Limit	Over	
Freq	Level	Level	Factor	Line	Limit Remark
MHz	dBm	dBm	dB	dBm	dB
1 pp 1663.00	-58.72	-66.63	7.91	-13.00	-45.72 Peak

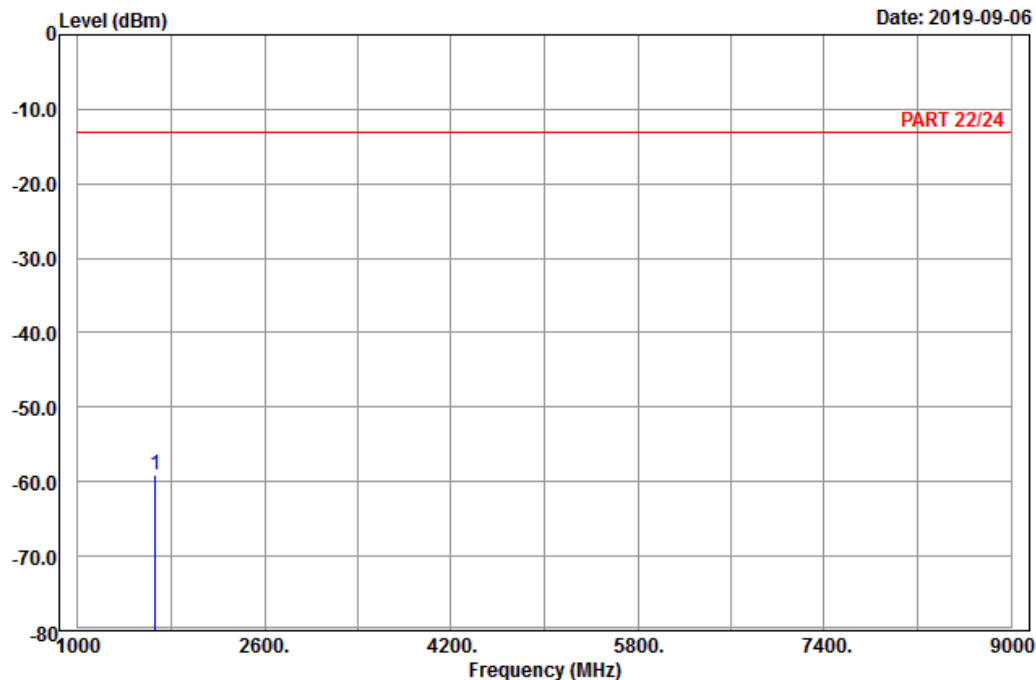


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1663.00	-59.14	-67.05	7.91	-13.00	-46.14	Peak

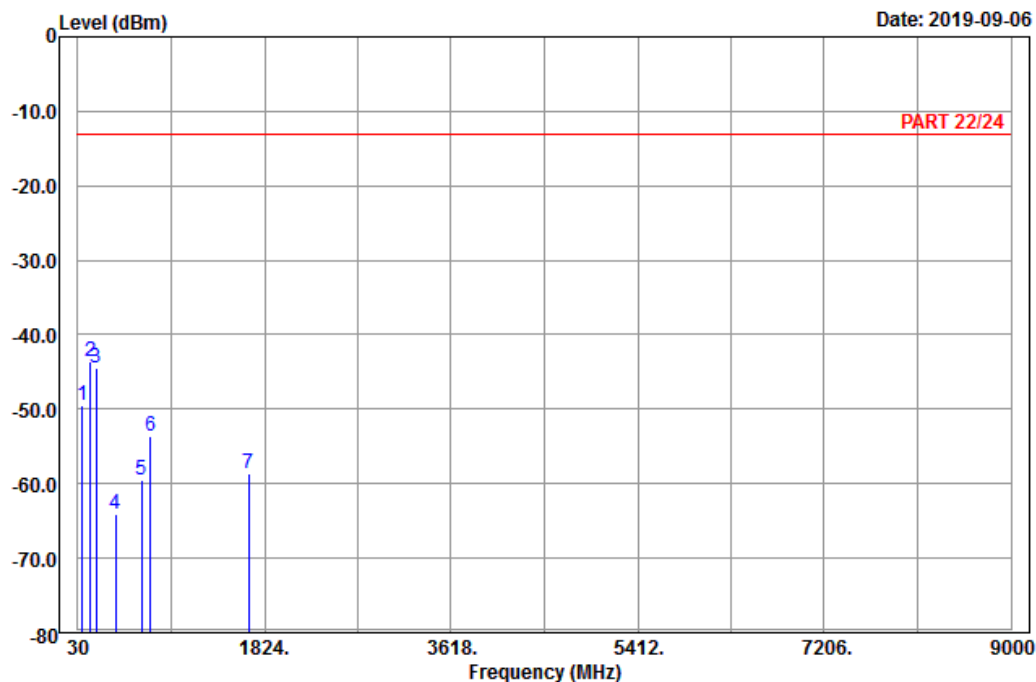
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	74.28	-49.40	-37.13	-12.27	-13.00	-36.40	Peak
2 pp	150.96	-43.63	-35.71	-7.92	-13.00	-30.63	Peak
3	209.01	-44.55	-38.50	-6.05	-13.00	-31.55	Peak
4	388.90	-64.01	-60.70	-3.31	-13.00	-51.01	Peak
5	645.10	-59.45	-59.37	-0.08	-13.00	-46.45	Peak
6	730.50	-53.68	-52.73	-0.95	-13.00	-40.68	Peak
7	1673.00	-58.55	-66.46	7.91	-13.00	-45.55	Peak

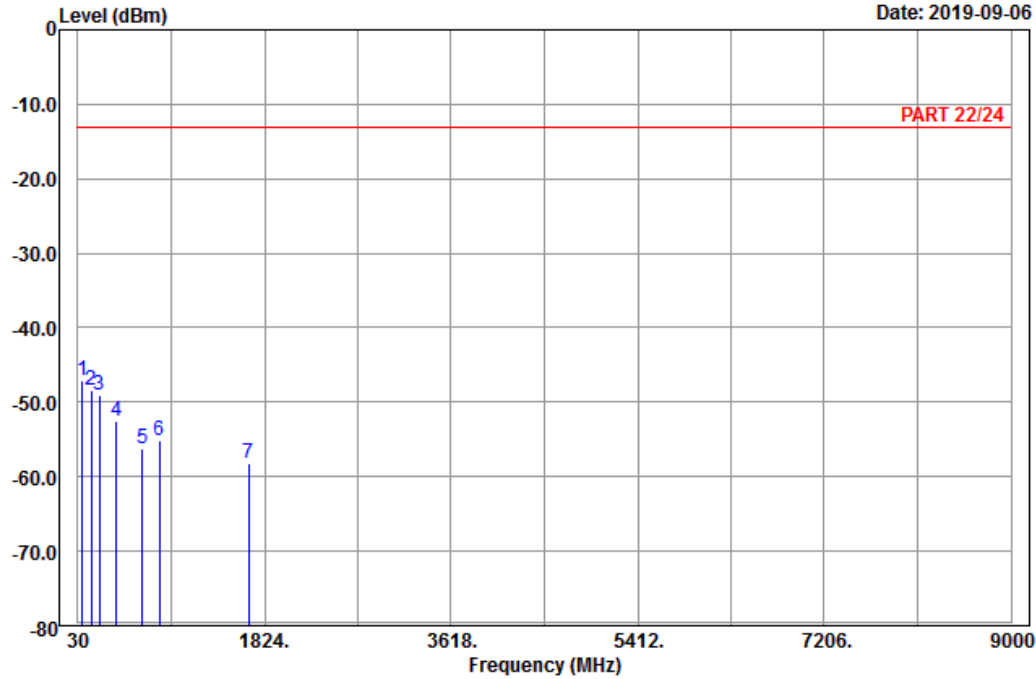


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	72.39	-47.14	-34.71	-12.43	-13.00	-34.14	Peak
2	158.52	-48.47	-40.75	-7.72	-13.00	-35.47	Peak
3	235.47	-49.07	-43.37	-5.70	-13.00	-36.07	Peak
4	398.70	-52.46	-49.67	-2.79	-13.00	-39.46	Peak
5	649.30	-56.29	-56.17	-0.12	-13.00	-43.29	Peak
6	813.10	-55.04	-56.91	1.87	-13.00	-42.04	Peak
7	1673.00	-58.16	-66.07	7.91	-13.00	-45.16	Peak

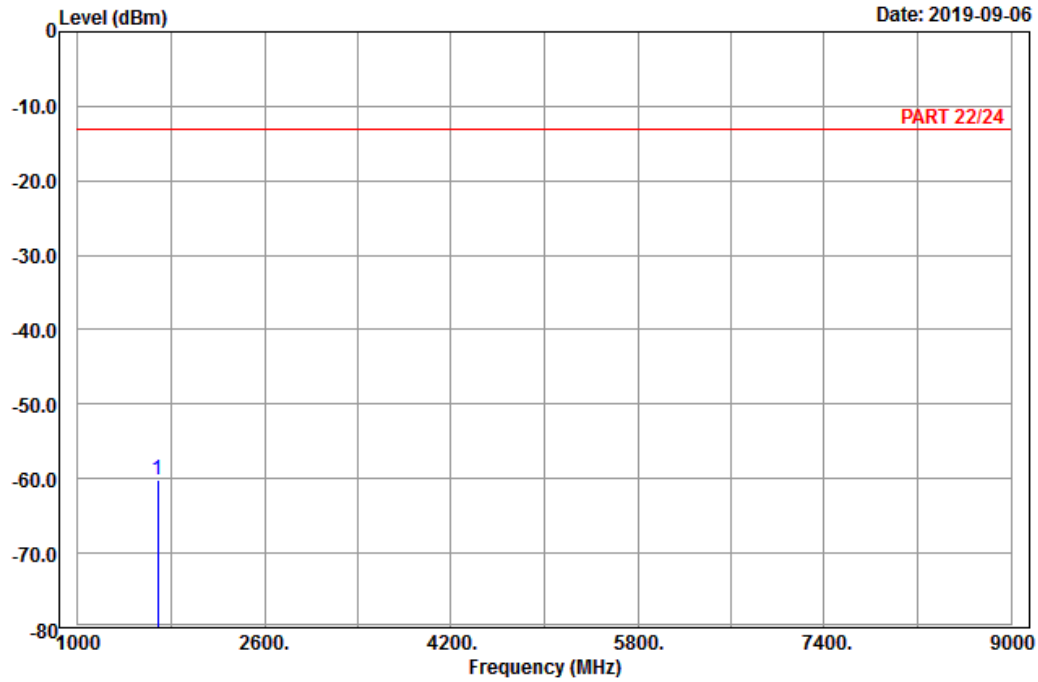
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26 _Link_H-Ch
Tested by: Karl Lee

		Read	Limit	Over	
Freq	Level	Level	Factor	Line	Limit Remark
MHz	dBm	dBm	dB	dBm	dB
1 pp 1683.00	-60.18	-68.20	8.02	-13.00	-47.18 Peak

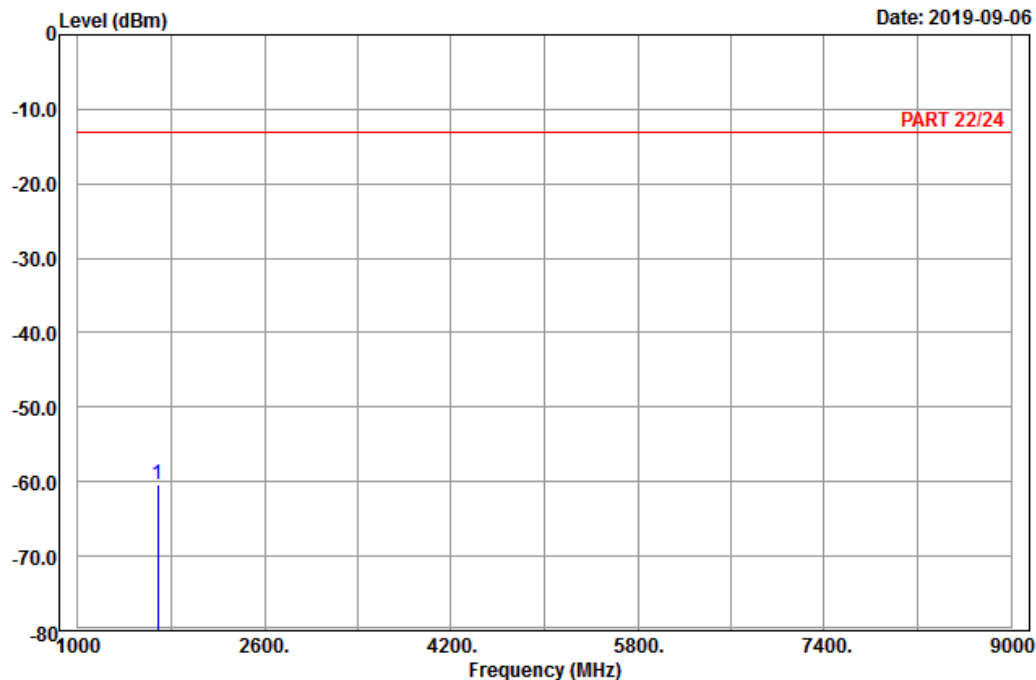


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-09-06



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26 _Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1683.00	-60.47	-68.49	8.02	-13.00	-47.47	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 according to ISO/IEC 17025.

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

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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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