

Partial FCC Test Report

(PART 22)

Report No.: RF190326C26

FCC ID: B94HNC04PK

Test Model: HSN-C04C

Received Date: Mar. 26, 2019

Test Date: Apr. 12, 2019 ~ Apr. 22, 2019

Issued Date: May 09, 2019

Applicant: HP Inc.

Address: 3390 East Harmony Road, Fort Collins Colorado, 80528 United States

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

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(R.O.C)

Test Location : B2F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231,
Taiwan, R.O.C

**FCC Registration /
Designation Number:** 427177 / TW0011



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Release Control Record

Issue No.	Description	Date Issued
RF190326C26	Original Release	May 09, 2019

1 Certificate of Conformity

Product: Tablet
Brand: HP
Test Model: HSN-C04C
Sample Status: Engineering Sample
Applicant: HP Inc.
Test Date: Apr. 12, 2019 ~ Apr. 22, 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 : Rona Chen, **Date:** May 09, 2019
Rona Chen / Specialist

Approved by : Dylan Chiou, **Date:** May 09, 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 -33.03 dB at 2524.50 MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to SGS report no.: SZEM180500437001 for module (Brand: Fibocom, Model: L860-GL)
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. 20, 2018	Aug. 19, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	100115	Jan. 21, 2019	Jan. 20, 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
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 25, 2018	Nov. 24, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 2019
			Apr. 15, 2019	Apr. 14, 2020
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 19, 2018	Nov. 18, 2019
Preamplifier Agilent	310N	187226	Jun. 19, 2018	Jun. 18, 2019
Preamplifier Agilent	83017A	MY39501357	Jun. 19, 2018	Jun. 18, 2019
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RFC -SMS-100-SMS-12 0+RFC-SMS-100-S MS-400)	Jun. 19, 2018	Jun. 18, 2019
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RFC -SMS-100-SMS-24)	Jun. 19, 2018	Jun. 18, 2019
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	Jun. 28, 2017	Jun. 27, 2019
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 16, 2017	Aug. 15, 2019
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019
DC Power Supply Topward	33010D	807748	NA	NA

- 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. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
 4. The IC Site Registration No. is 7450I-1.



3 General Information

3.1 General Description of EUT

Product	Tablet	
Brand	HP	
Test Model	HSN-C04C	
Status of EUT	Engineering Sample	
Power Supply Rating	7.7 Vdc (Li-ion battery) 20 Vdc (Adapter)	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM, 64QAM
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	143.88 mW
	LTE 5 (Channel Bandwidth: 1.4 MHz)	125.60 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	126.77 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	127.64 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	128.53 mW
	LTE 26 (Channel Bandwidth: 1.4 MHz)	122.80 mW
	LTE 26 (Channel Bandwidth: 3 MHz)	123.65 mW
	LTE 26 (Channel Bandwidth: 5 MHz)	124.80 mW
	LTE 26 (Channel Bandwidth: 10 MHz)	125.95 mW
LTE 26 (Channel Bandwidth: 15 MHz)	126.82 mW	
Antenna Type	PIFA Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The WWAN module (Brand: Fibocom, Model: L860-GL) was installed in EUT.
2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	AcBel	TPN-AA03	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 20 Vdc, 3.25 A
Battery	Dynapack	HSTNN-DB9E	7.7 Vdc, 5950 mAh
Keyboard 1	Primax	HSN-P01K	--
Keyboard 2	Cosmo	HSN-C01K	--
BT/WLAN Module	Intel® Wi-Fi 6 AX200	AX200D2WL	--
LTE Module	Fibocom	L860-GL	--

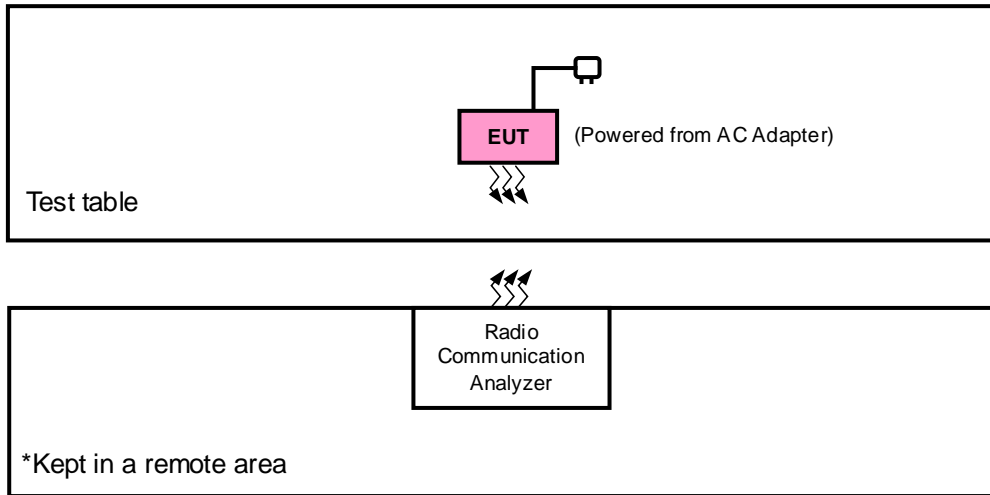
3. The antenna information of End-product is listed as below.

Ant. Type	Manufacturer	Parts Number	WWAN Antenna Gain (dBi)	
			WCDMA V / LTE 5	LTE 26
PIFA	INPAQ	Main Antenna: WA-P-LTE15-02-001 (DC330029D20)	-1.58	-1.58
		Aux. Antenna: WA-P-LTE15-02-002 (DC330029D30)		
		WA-P-LTE11-02-003 (DC330029D40)		
		WA-P-LTE11-02-004 (DC330029D50)		

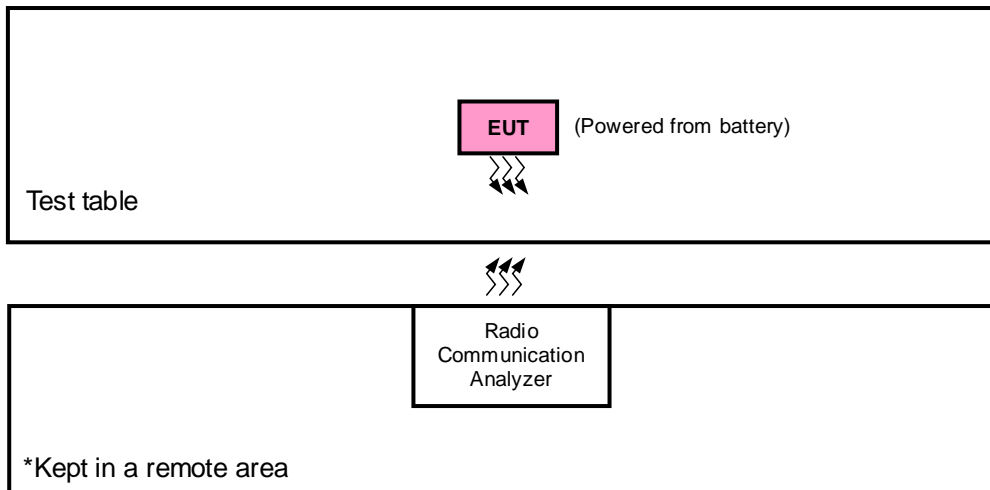
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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.

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	X-plane	Y-axis
LTE Band 5	X-plane	Y-axis
LTE Band 26	X-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, 64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK	1 RB / 7 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	16QAM, 64QAM	1 RB / 0 RB Offset
					QPSK, 16QAM	1 RB / 12 RB Offset
20450 to 20600	20450, 20525, 20600	10 MHz	64QAM	1 RB / 24 RB Offset		
-	Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM, 64QAM	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	1 RB / 5 RB Offset
					16QAM, 64QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3 MHz	QPSK	1 RB / 7 RB Offset
					16QAM, 64QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5 MHz	QPSK	1 RB / 24 RB Offset
					16QAM, 64QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
					64QAM	1 RB / 24 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM, 64QAM	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	7.7 Vdc	Karl Lee
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

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:

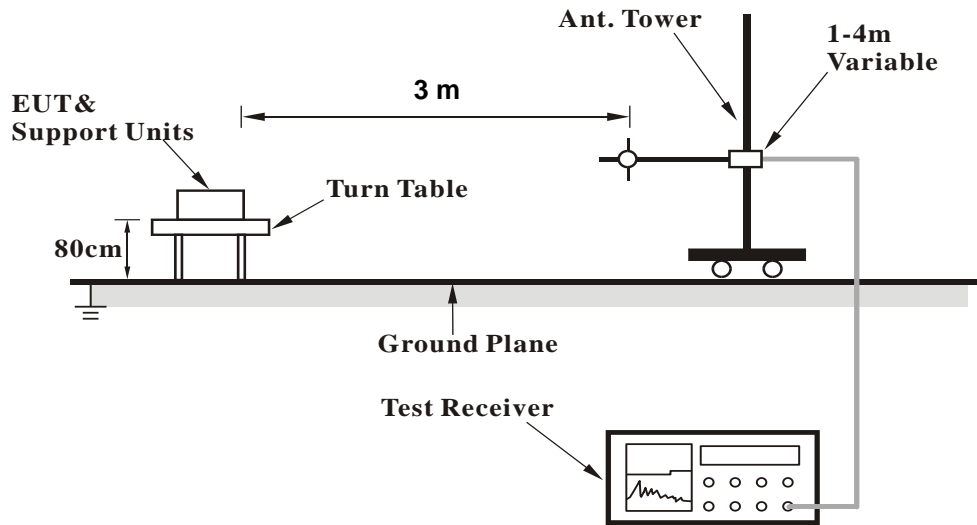
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5 MHz for WCDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

Conducted Power Measurement:

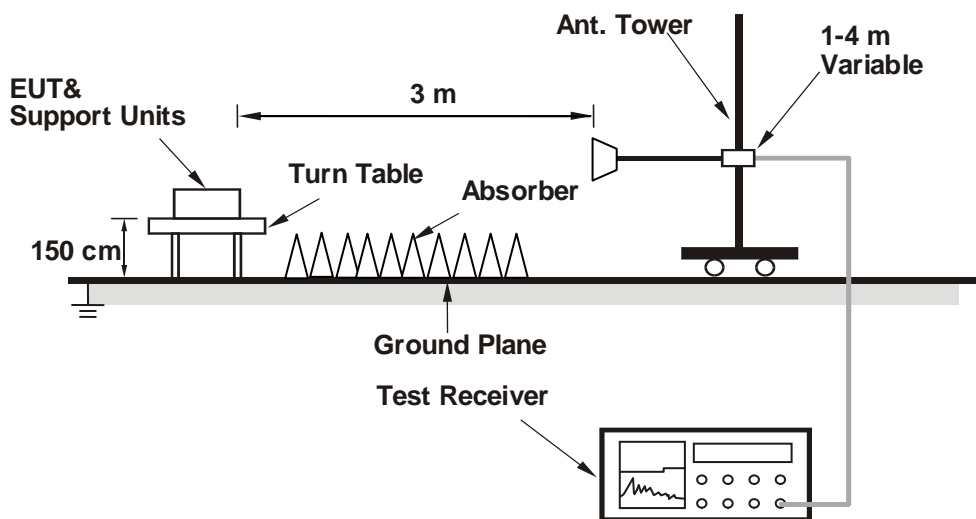
The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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

Conducted Output Power (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.37	23.41	23.35
HSDPA Subtest-1	22.52	22.56	22.50
HSDPA Subtest-2	22.47	22.51	22.45
HSDPA Subtest-3	21.97	22.01	21.95
HSDPA Subtest-4	21.91	21.95	21.89
DC-HSDPA Subtest-1	22.44	22.48	22.42
DC-HSDPA Subtest-2	22.39	22.43	22.37
DC-HSDPA Subtest-3	21.89	21.93	21.87
DC-HSDPA Subtest-4	21.83	21.87	21.81
HSUPA Subtest-1	22.67	22.71	22.65
HSUPA Subtest-2	20.45	20.49	20.43
HSUPA Subtest-3	21.18	21.22	21.16
HSUPA Subtest-4	20.57	20.61	20.55
HSUPA Subtest-5	22.75	22.79	22.73

LTE Band 5																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
				Channel	20450	20525						20600	Channel	20425		20525	20625
				Frequency (MHz)	829.0	836.5						844.0	Frequency (MHz)	826.5		836.5	846.5
10M	QPSK	1	0	22.84	22.93	22.91	0	5M	QPSK	1	0	22.84	22.90	22.86	0		
		1	24	22.81	22.90	22.88	0			1	12	22.72	22.86	22.81	0		
		1	49	22.78	22.87	22.85	0			1	24	22.70	22.79	22.82	0		
		25	0	21.74	21.83	21.81	1			12	0	21.74	21.76	21.75	1		
		25	12	21.73	21.82	21.80	1			12	6	21.63	21.79	21.78	1		
		25	25	21.71	21.80	21.78	1			12	13	21.69	21.74	21.70	1		
		50	0	21.68	21.77	21.75	1			25	0	21.62	21.69	21.72	1		
	16QAM	1	0	21.83	21.92	21.90	1		1	0	21.82	21.84	21.85	1			
		1	24	21.80	21.89	21.87	1		1	12	21.70	21.86	21.81	1			
		1	49	21.77	21.86	21.84	1		1	24	21.68	21.80	21.80	1			
		25	0	20.73	20.82	20.80	2		12	0	20.68	20.75	20.70	2			
		25	12	20.72	20.81	20.79	2		12	6	20.67	20.77	20.70	2			
		25	25	20.70	20.79	20.77	2		12	13	20.70	20.70	20.72	2			
		50	0	20.67	20.76	20.74	2		25	0	20.57	20.74	20.67	2			
	64QAM	1	0	20.85	20.94	20.92	2		64QAM	1	0	20.79	20.84	20.87	2		
		1	24	20.82	20.91	20.89	2			1	12	20.75	20.88	20.83	2		
		1	49	20.79	20.88	20.86	2			1	24	20.71	20.88	20.83	2		
		25	0	19.75	19.84	19.82	3			12	0	19.66	19.83	19.82	3		
		25	12	19.74	19.83	19.81	3			12	6	19.72	19.82	19.73	3		
		25	25	19.72	19.81	19.79	3			12	13	19.67	19.80	19.76	3		
		50	0	19.69	19.78	19.76	3			25	0	19.67	19.71	19.75	3		
	3M	QPSK	1	0	22.74	22.71	22.77		0	1.4M	QPSK	1	0	22.71	22.83	22.83	0
			1	7	22.75	22.82	22.64		0			1	2	22.65	22.79	22.72	0
			1	14	22.67	22.80	22.63		0			1	5	22.62	22.71	22.75	0
8			0	21.66	21.65	21.56	1	3	0			22.69	22.76	22.66	0		
8			3	21.50	21.67	21.58	1	3	1			22.67	22.75	22.69	0		
8			7	21.57	21.66	21.54	1	3	3			22.54	22.67	22.66	0		
15			0	21.47	21.61	21.58	1	6	0			21.65	21.64	21.66	1		
16QAM		1	0	21.69	21.75	21.90	1	16QAM	1		0	21.72	21.81	21.82	1		
		1	7	21.59	21.82	21.73	1		1		2	21.74	21.77	21.77	1		
		1	14	21.70	21.75	21.79	1		1		5	21.65	21.78	21.67	1		
		8	0	20.58	20.64	20.59	2		3		0	21.60	21.65	21.65	1		
		8	3	20.52	20.72	20.61	2		3		1	21.58	21.76	21.58	1		
		8	7	20.55	20.77	20.71	2		3		3	21.66	21.63	21.66	1		
		15	0	20.57	20.55	20.50	2		6		0	20.50	20.62	20.56	2		
64QAM		1	0	20.62	20.85	20.86	2	64QAM	1		0	20.76	20.88	20.70	2		
		1	7	20.62	20.82	20.66	2		1		2	20.65	20.77	20.84	2		
		1	14	20.66	20.66	20.78	2		1		5	20.57	20.73	20.78	2		
		8	0	19.71	19.81	19.58	3		3		0	20.57	20.67	20.70	2		
		8	3	19.57	19.68	19.73	3		3		1	20.58	20.63	20.71	2		
		8	7	19.60	19.75	19.63	3		3		3	20.63	20.68	20.67	2		
		15	0	19.61	19.73	19.59	3		6		0	19.60	19.62	19.64	3		

LTE Band 26																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	
				26865	26915	26965						26840	26915	26990		
				Channel Frequency (MHz)	831.5	836.5						841.5	Channel Frequency (MHz)	829.0		836.5
15M	QPSK	1	0	22.84	22.79	22.87	0	10M	QPSK	1	0	22.76	22.76	22.68	0	
		1	37	22.81	22.74	22.84	0			1	24	22.77	22.61	22.66	0	
		1	74	22.80	22.79	22.83	0			1	49	22.74	22.74	22.70	0	
		36	0	21.86	21.84	21.89	1			25	0	21.72	21.80	21.69	1	
		36	19	21.85	21.85	21.88	1			25	12	21.85	21.79	21.80	1	
		36	39	21.81	21.80	21.84	1			25	25	21.69	21.69	21.70	1	
		75	0	21.82	21.82	21.85	1			50	0	21.82	21.78	21.75	1	
	16QAM	1	0	21.82	21.75	21.85	1		16QAM	1	0	21.75	21.61	21.80	1	
		1	37	21.79	21.72	21.82	1			1	24	21.65	21.66	21.64	1	
		1	74	21.78	21.71	21.81	1			1	49	21.63	21.62	21.62	1	
		36	0	20.84	20.81	20.87	2			25	0	20.70	20.80	20.71	2	
		36	19	20.83	20.74	20.86	2			25	12	20.71	20.73	20.71	2	
		36	39	20.79	20.72	20.82	2			25	25	20.69	20.69	20.69	2	
		75	0	20.80	20.78	20.83	2			50	0	20.66	20.67	20.76	2	
	64QAM	1	0	20.83	20.83	20.86	2		64QAM	1	0	20.71	20.79	20.75	2	
		1	37	20.80	20.73	20.83	2			1	24	20.79	20.61	20.77	2	
		1	74	20.79	20.78	20.82	2			1	49	20.78	20.72	20.67	2	
		36	0	19.85	19.77	19.88	3			25	0	19.84	19.71	19.67	3	
		36	19	19.84	19.77	19.87	3			25	12	19.69	19.68	19.71	3	
		36	39	19.80	19.72	19.83	3			25	25	19.69	19.58	19.68	3	
		75	0	19.81	19.71	19.84	3			50	0	19.76	19.69	19.75	3	
5M	QPSK	1	0	22.67	22.76	22.67	0	3M	QPSK	1	0	22.75	22.57	22.83	0	
		1	12	22.68	22.50	22.74	0			1	7	22.61	22.53	22.81	0	
		1	24	22.65	22.71	22.46	0			1	14	22.72	22.69	22.69	0	
		12	0	21.57	21.69	21.86	1			8	0	21.66	21.68	21.75	1	
		12	6	21.84	21.74	21.56	1			8	3	21.68	21.72	21.81	1	
		12	13	21.57	21.57	21.72	1			8	7	21.62	21.68	21.66	1	
		25	0	21.80	21.69	21.65	1			15	0	21.73	21.69	21.72	1	
	16QAM	1	0	21.69	21.55	21.75	1		16QAM	1	0	21.54	21.74	21.67	1	
		1	12	21.58	21.56	21.71	1			1	7	21.55	21.56	21.59	1	
		1	24	21.60	21.61	21.71	1			1	14	21.62	21.47	21.75	1	
		12	0	20.70	20.66	20.77	2			8	0	20.73	20.62	20.82	2	
		12	6	20.57	20.59	20.75	2			8	3	20.65	20.63	20.73	2	
		12	13	20.62	20.58	20.72	2			8	7	20.68	20.64	20.66	2	
		25	0	20.66	20.55	20.70	2			15	0	20.67	20.68	20.64	2	
	64QAM	1	0	20.67	20.67	20.82	2		64QAM	1	0	20.64	20.66	20.79	2	
		1	12	20.74	20.52	20.65	2			1	7	20.54	20.64	20.79	2	
		1	24	20.73	20.69	20.60	2			1	14	20.60	20.54	20.73	2	
		12	0	19.69	19.68	19.78	3			8	0	19.69	19.53	19.75	3	
		12	6	19.60	19.60	19.69	3			8	3	19.64	19.60	19.84	3	
		12	13	19.54	19.46	19.67	3			8	7	19.51	19.53	19.74	3	
		25	0	19.67	19.68	19.68	3			15	0	19.66	19.66	19.79	3	
1.4M	QPSK	1	0	22.64	22.65	22.70	0	3M	QPSK	1	0	22.64	22.65	22.70	0	
		1	2	22.56	22.59	22.72	0			1	2	22.56	22.59	22.72	0	
		1	5	22.72	22.70	22.73	0			1	5	22.72	22.70	22.73	0	
		3	0	22.74	22.69	22.79	0			3	0	22.74	22.69	22.79	0	
		3	1	22.70	22.77	22.75	0			3	1	22.70	22.77	22.75	0	
		3	3	22.57	22.64	22.75	0			3	3	22.57	22.64	22.75	0	
		6	0	21.70	21.64	21.71	1			6	0	21.70	21.64	21.71	1	
	16QAM	1	0	21.55	21.71	21.73	1		16QAM	1	0	21.55	21.71	21.73	1	
		1	2	21.61	21.62	21.72	1			1	2	21.61	21.62	21.72	1	
		1	5	21.61	21.55	21.68	1			1	5	21.61	21.55	21.68	1	
		3	0	21.80	21.66	21.72	1			3	0	21.80	21.66	21.72	1	
		3	1	21.67	21.68	21.75	1			3	1	21.67	21.68	21.75	1	
		3	3	21.57	21.56	21.68	1			3	3	21.57	21.56	21.68	1	
		6	0	20.67	20.70	20.77	2			6	0	20.67	20.70	20.77	2	
	64QAM	1	0	20.75	20.62	20.81	2		64QAM	1	0	20.75	20.62	20.81	2	
		1	2	20.55	20.62	20.63	2			1	2	20.55	20.62	20.63	2	
		1	5	20.72	20.61	20.61	2			1	5	20.72	20.61	20.61	2	
		3	0	20.57	20.54	20.65	2			3	0	20.57	20.54	20.65	2	
		3	1	20.58	20.62	20.83	2			3	1	20.58	20.62	20.83	2	
		3	3	20.45	20.57	20.71	2			3	3	20.45	20.57	20.71	2	
		6	0	19.67	19.66	19.64	3			6	0	19.67	19.66	19.64	3	

ERP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	4132	826.4	-7.52	31.208	21.54	142.50	H
	4182	836.4	-7.57	31.3	21.58	143.88	
	4233	846.6	-7.58	31.222	21.49	140.99	
	4132	826.4	-11.85	31.504	17.50	56.29	V
	4182	836.4	-11.42	31.117	17.55	56.85	
	4233	846.6	-12.30	31.922	17.47	55.87	

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)
X	20407	824.7	-8.15	31.208	20.91	123.25	H
	20525	836.5	-8.16	31.3	20.99	125.60	
	20643	848.3	-8.11	31.222	20.96	124.80	
	20407	824.7	-12.43	31.504	16.92	49.25	V
	20525	836.5	-11.96	31.117	17.01	50.20	
	20643	848.3	-12.80	31.922	16.97	49.80	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	20407	824.7	-9.15	31.208	19.91	97.90	H
	20525	836.5	-9.16	31.3	19.99	99.77	
	20643	848.3	-9.12	31.222	19.95	98.90	
	20407	824.7	-13.44	31.504	15.91	39.03	V
	20525	836.5	-12.96	31.117	16.01	39.87	
	20643	848.3	-13.81	31.922	15.96	39.46	
Channel Bandwidth: 1.4 MHz / 64QAM							
X	20407	824.7	-10.15	31.208	18.91	77.77	H
	20525	836.5	-10.16	31.3	18.99	79.25	
	20643	848.3	-10.13	31.222	18.94	78.38	
	20407	824.7	-14.45	31.504	14.90	30.93	V
	20525	836.5	-13.96	31.117	15.01	31.67	
	20643	848.3	-14.82	31.922	14.95	31.28	

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)
X	20415	825.5	-8.12	31.208	20.94	124.11	H
	20525	836.5	-8.12	31.3	21.03	126.77	
	20635	847.5	-8.08	31.222	20.99	125.66	
	20415	825.5	-12.40	31.504	16.95	49.59	V
	20525	836.5	-11.93	31.117	17.04	50.55	
	20635	847.5	-12.76	31.922	17.01	50.26	
Channel Bandwidth: 3 MHz / 16QAM							
X	20415	825.5	-9.12	31.208	19.94	98.58	H
	20525	836.5	-9.12	31.3	20.03	100.69	
	20635	847.5	-9.09	31.222	19.98	99.59	
	20415	825.5	-13.41	31.504	15.94	39.30	V
	20525	836.5	-12.94	31.117	16.03	40.06	
	20635	847.5	-13.77	31.922	16.00	39.83	
Channel Bandwidth: 3 MHz / 64QAM							
X	20415	825.5	-10.13	31.208	18.93	78.13	H
	20525	836.5	-10.12	31.3	19.03	79.98	
	20635	847.5	-10.10	31.222	18.97	78.92	
	20415	825.5	-14.42	31.504	14.93	31.15	V
	20525	836.5	-13.95	31.117	15.02	31.75	
	20635	847.5	-14.78	31.922	14.99	31.56	

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)
X	20425	826.5	-8.08	31.208	20.98	125.26	H
	20525	836.5	-8.09	31.3	21.06	127.64	
	20625	846.5	-8.04	31.222	21.03	126.82	
	20425	826.5	-12.36	31.504	16.99	50.05	V
	20525	836.5	-11.89	31.117	17.08	51.02	
	20625	846.5	-12.72	31.922	17.05	50.72	
Channel Bandwidth: 5 MHz / 16QAM							
X	20425	826.5	-9.09	31.208	19.97	99.27	H
	20525	836.5	-9.10	31.3	20.05	101.16	
	20625	846.5	-9.05	31.222	20.02	100.51	
	20425	826.5	-13.36	31.504	15.99	39.76	V
	20525	836.5	-12.90	31.117	16.07	40.43	
	20625	846.5	-13.72	31.922	16.05	40.29	
Channel Bandwidth: 5 MHz / 64QAM							
X	20425	826.5	-10.10	31.208	18.96	78.67	H
	20525	836.5	-10.10	31.3	19.05	80.35	
	20625	846.5	-10.05	31.222	19.02	79.84	
	20425	826.5	-14.37	31.504	14.98	31.51	V
	20525	836.5	-13.91	31.117	15.06	32.04	
	20625	846.5	-13.73	31.922	16.04	40.20	

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)
X	20450	829.0	-8.05	31.208	21.01	126.12	H
	20525	836.5	-8.06	31.3	21.09	128.53	
	20600	844.0	-8.01	31.222	21.06	127.70	
	20450	829.0	-12.32	31.504	17.03	50.51	V
	20525	836.5	-11.86	31.117	17.11	51.37	
	20600	844.0	-12.69	31.922	17.08	51.07	
Channel Bandwidth: 10 MHz / 16QAM							
X	20425	826.5	-9.06	31.208	20.00	99.95	H
	20525	836.5	-9.06	31.3	20.09	102.09	
	20625	846.5	-9.02	31.222	20.05	101.20	
	20425	826.5	-13.32	31.504	16.03	40.12	V
	20525	836.5	-12.86	31.117	16.11	40.80	
	20625	846.5	-13.70	31.922	16.07	40.48	
Channel Bandwidth: 10 MHz / 64QAM							
X	20450	829.0	-10.07	31.208	18.99	79.21	H
	20525	836.5	-10.06	31.3	19.09	81.10	
	20600	844.0	-10.03	31.222	19.04	80.20	
	20450	829.0	-14.32	31.504	15.03	31.87	V
	20525	836.5	-13.87	31.117	15.09	32.31	
	20600	844.0	-14.71	31.922	15.06	32.08	

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)
X	26797	824.7	-8.24	31.208	20.82	120.73	H
	26915	836.5	-8.29	31.3	20.86	121.90	
	27033	848.3	-8.18	31.222	20.89	122.80	
	26797	824.7	-12.53	31.504	16.82	48.13	V
	26915	836.5	-12.12	31.117	16.85	48.38	
	27033	848.3	-12.87	31.922	16.90	49.00	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	26797	824.7	-9.24	31.208	19.82	95.90	H
	26915	836.5	-9.30	31.3	19.85	96.61	
	27033	848.3	-9.18	31.222	19.89	97.54	
	26797	824.7	-13.54	31.504	15.81	38.14	V
	26915	836.5	-13.12	31.117	15.85	38.43	
	27033	848.3	-13.88	31.922	15.89	38.83	
Channel Bandwidth: 1.4 MHz / 64QAM							
X	26797	824.7	-10.24	31.208	18.82	76.17	H
	26915	836.5	-10.31	31.3	18.84	76.56	
	27033	848.3	-10.19	31.222	18.88	77.30	
	26797	824.7	-14.55	31.504	14.80	30.23	V
	26915	836.5	-14.13	31.117	14.84	30.46	
	27033	848.3	-14.89	31.922	14.88	30.78	

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)
X	26805	825.5	-8.20	31.208	20.86	121.84	H
	26915	836.5	-8.25	31.3	20.90	123.03	
	27025	847.5	-8.15	31.222	20.92	123.65	
	26805	825.5	-12.49	31.504	16.86	48.57	V
	26915	836.5	-12.08	31.117	16.89	48.83	
	27025	847.5	-12.84	31.922	16.93	49.34	
Channel Bandwidth: 3 MHz / 16QAM							
X	26805	825.5	-9.21	31.208	19.85	96.56	H
	26915	836.5	-9.26	31.3	19.89	97.50	
	27025	847.5	-9.15	31.222	19.92	98.22	
	26805	825.5	-13.50	31.504	15.85	38.49	V
	26915	836.5	-13.09	31.117	15.88	38.70	
	27025	847.5	-13.84	31.922	15.93	39.19	
Channel Bandwidth: 3 MHz / 64QAM							
X	26805	825.5	-10.22	31.208	18.84	76.52	H
	26915	836.5	-10.26	31.3	18.89	77.45	
	27025	847.5	-10.16	31.222	18.91	77.84	
	26805	825.5	-14.51	31.504	14.84	30.51	V
	26915	836.5	-14.10	31.117	14.87	30.67	
	27025	847.5	-14.85	31.922	14.92	31.06	

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)
X	26815	826.5	-8.17	31.208	20.89	122.69	H
	26915	836.5	-8.21	31.3	20.94	124.17	
	27015	846.5	-8.11	31.222	20.96	124.80	
	26815	826.5	-12.45	31.504	16.90	49.02	V
	26919	836.5	-12.04	31.117	16.93	49.28	
	27015	846.5	-12.77	31.922	17.00	50.14	
Channel Bandwidth: 5 MHz / 16QAM							
X	26815	826.5	-9.18	31.208	19.88	97.23	H
	26915	836.5	-9.22	31.3	19.93	98.40	
	27015	846.5	-9.11	31.222	19.96	99.13	
	26815	826.5	-13.45	31.504	15.90	38.94	V
	26919	836.5	-13.04	31.117	15.93	39.15	
	27015	846.5	-13.78	31.922	15.99	39.74	
Channel Bandwidth: 5 MHz / 64QAM							
X	26815	826.5	-10.19	31.208	18.87	77.05	H
	26915	836.5	-10.22	31.3	18.93	78.16	
	27015	846.5	-10.11	31.222	18.96	78.74	
	26815	826.5	-14.45	31.504	14.90	30.93	V
	26919	836.5	-14.05	31.117	14.92	31.02	
	27015	846.5	-14.79	31.922	14.98	31.49	

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)
X	26840	829.0	-8.14	31.208	20.92	123.54	H
	26915	836.5	-8.17	31.3	20.98	125.31	
	26990	844.0	-8.07	31.222	21.00	125.95	
	26840	829.0	-12.41	31.504	16.94	49.48	V
	26919	836.5	-12.00	31.117	16.97	49.74	
	26990	844.0	-12.74	31.922	17.03	50.49	
Channel Bandwidth: 10 MHz / 16QAM							
X	26840	829.0	-9.15	31.208	19.91	97.90	H
	26915	836.5	-9.17	31.3	19.98	99.54	
	26990	844.0	-9.08	31.222	19.99	99.82	
	26840	829.0	-13.41	31.504	15.94	39.30	V
	26919	836.5	-13.01	31.117	15.96	39.42	
	26990	844.0	-13.75	31.922	16.02	40.01	
Channel Bandwidth: 10 MHz / 64QAM							
X	26840	829.0	-10.15	31.208	18.91	77.77	H
	26915	836.5	-10.17	31.3	18.98	79.07	
	26990	844.0	-10.09	31.222	18.98	79.10	
	26840	829.0	-14.41	31.504	14.94	31.22	V
	26919	836.5	-14.02	31.117	14.95	31.24	
	26990	844.0	-14.75	31.922	15.02	31.78	

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)
X	26865	831.5	-8.10	31.208	20.96	124.68	H
	26915	836.5	-8.15	31.3	21.00	125.89	
	26965	841.5	-8.04	31.222	21.03	126.82	
	26865	831.5	-12.37	31.504	16.98	49.93	V
	26915	836.5	-11.96	31.117	17.01	50.20	
	26965	841.5	-12.71	31.922	17.06	50.84	
Channel Bandwidth: 15 MHz / 16QAM							
X	26865	831.5	-9.11	31.208	19.95	98.81	H
	26915	836.5	-9.15	31.3	20.00	100.00	
	26965	841.5	-9.04	31.222	20.03	100.74	
	26865	831.5	-13.38	31.504	15.97	39.57	V
	26915	836.5	-12.97	31.117	16.00	39.78	
	26965	841.5	-13.72	31.922	16.05	40.29	
Channel Bandwidth: 15 MHz / 64QAM							
X	26865	831.5	-10.11	31.208	18.95	78.49	H
	26915	836.5	-10.15	31.3	19.00	79.43	
	26965	841.5	-10.05	31.222	19.02	79.84	
	26865	831.5	-14.39	31.504	14.96	31.36	V
	26915	836.5	-13.97	31.117	15.00	31.60	
	26965	841.5	-14.73	31.922	15.04	31.93	

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

- a. 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.
- b. 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
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. 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.

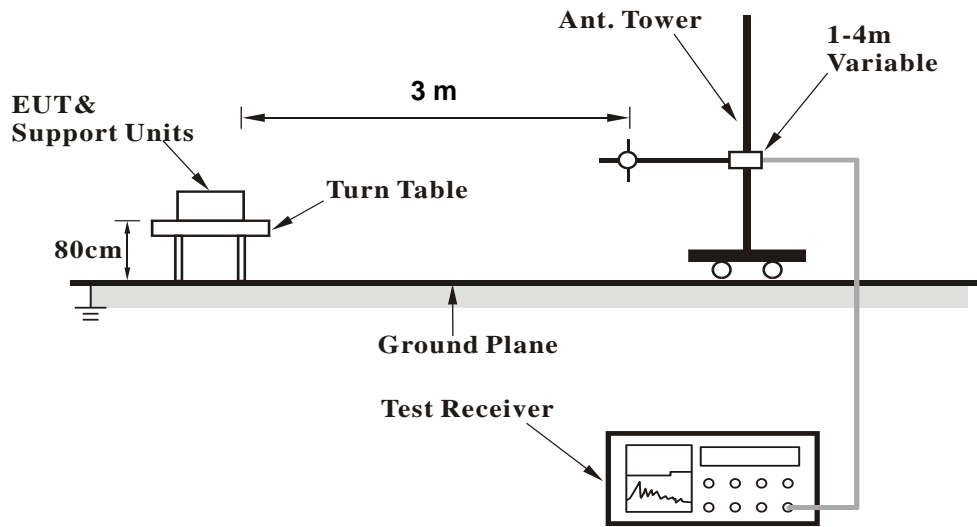
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

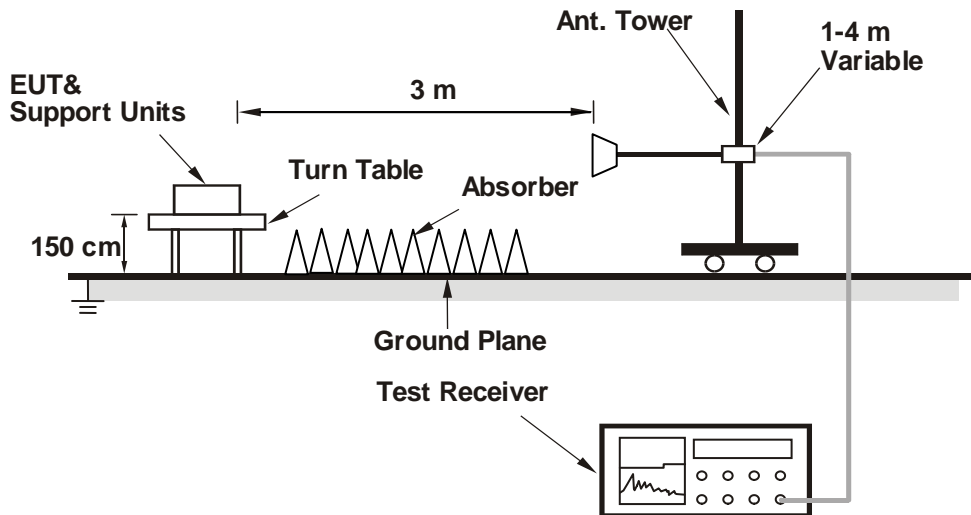
No deviation.

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

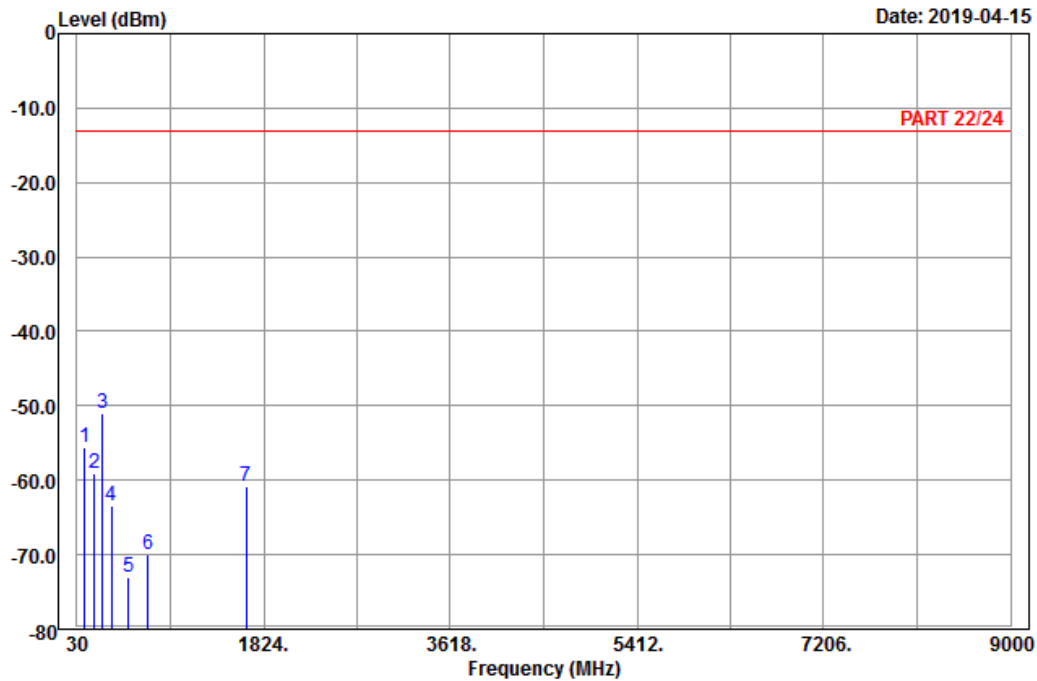


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2019-04-15



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Band V_Link_CH4132
Tested by: Karl Lee

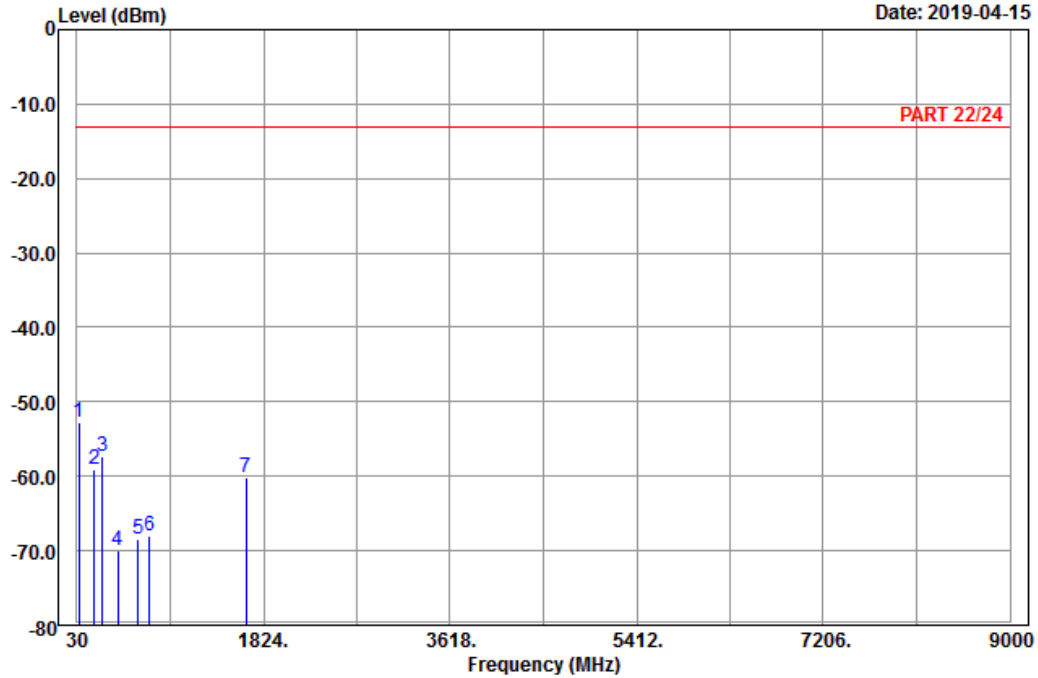
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	100.47	-55.54	-45.54	-13.00	-42.54	-10.00	Peak
2	195.78	-59.13	-53.13	-13.00	-46.13	-6.00	Peak
3 pp	271.92	-50.92	-45.22	-13.00	-37.92	-5.70	Peak
4	365.10	-63.49	-58.89	-13.00	-50.49	-4.60	Peak
5	524.70	-72.99	-69.48	-13.00	-59.99	-3.51	Peak
6	710.20	-69.88	-69.32	-13.00	-56.88	-0.56	Peak
7	1652.80	-60.78	-68.51	-13.00	-47.78	7.73	Peak



A D T

Data: 10

Date: 2019-04-15



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band V_Link_CH4132
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	52.95	-52.69	-38.63	-13.00	-39.69	-14.06	Peak
2	199.02	-59.02	-52.88	-13.00	-46.02	-6.14	Peak
3	273.54	-57.32	-51.60	-13.00	-44.32	-5.72	Peak
4	423.20	-70.01	-66.76	-13.00	-57.01	-3.25	Peak
5	620.60	-68.34	-68.54	-13.00	-55.34	0.20	Peak
6	729.80	-67.92	-66.99	-13.00	-54.92	-0.93	Peak
7	1652.80	-60.22	-67.95	-13.00	-47.22	7.73	Peak

Middle Channel

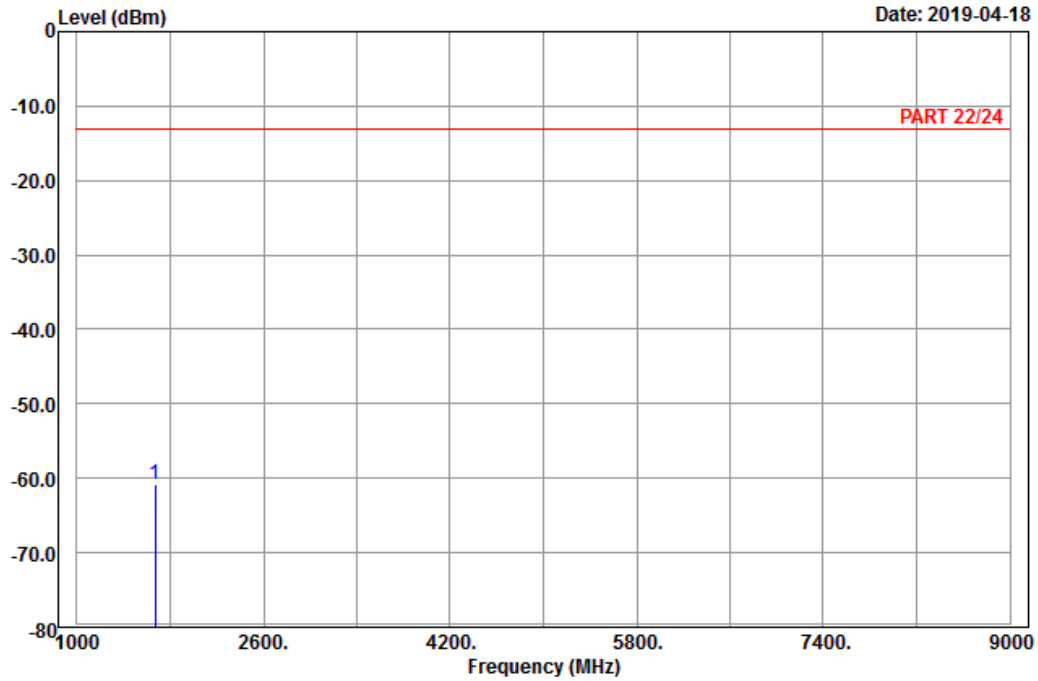


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A D T

Data: 5

Date: 2019-04-18



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band V_Link_CH4182
 Tested by: Karl Lee

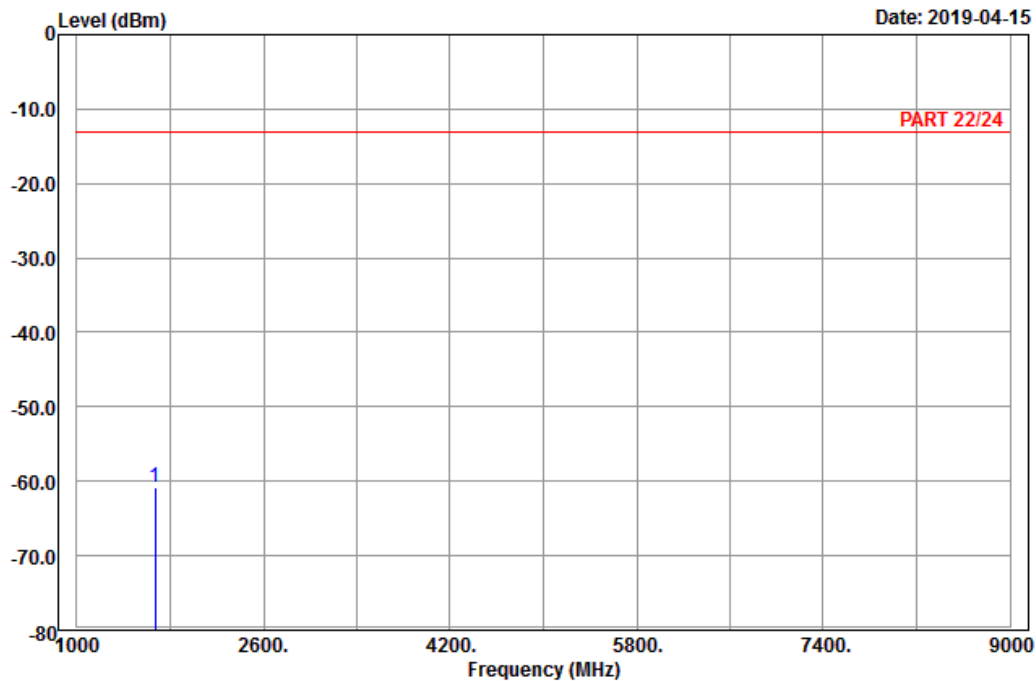
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1672.80	-60.76	-68.67	-13.00	-47.76	7.91	Peak



A D T

Data: 6

Date: 2019-04-15



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band V_Link_CH4182
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1672.80	-60.72	-68.63	-13.00	-47.72	7.91	Peak

High Channel

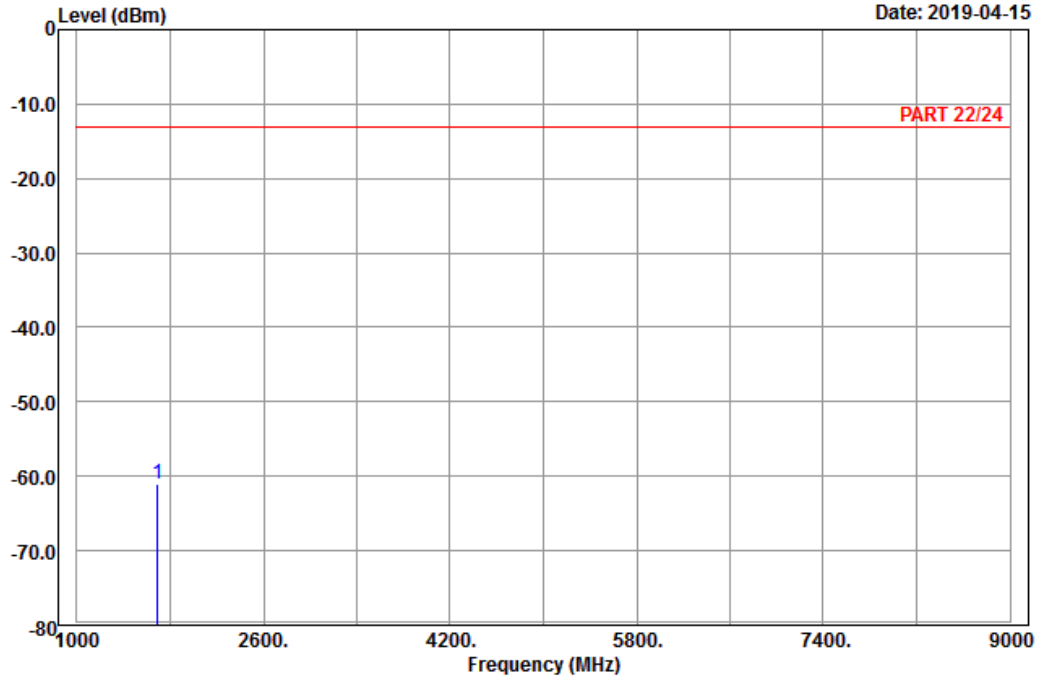


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A D T

Data: 5

Date: 2019-04-15



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band V_Link_CH4233
 Tested by: Karl Lee

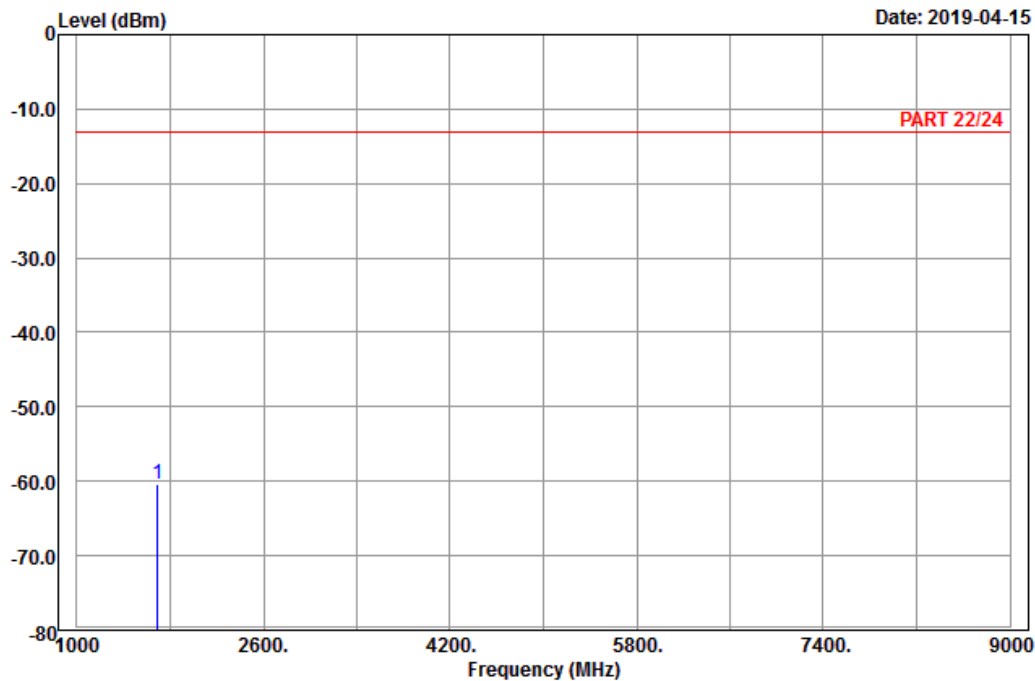
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1693.20	-61.00	-69.14	-13.00	-48.00	8.14	Peak



A D T

Data: 6

Date: 2019-04-15



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band V_Link_CH4233
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1693.20	-60.35	-68.49	-13.00	-47.35	8.14	Peak

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

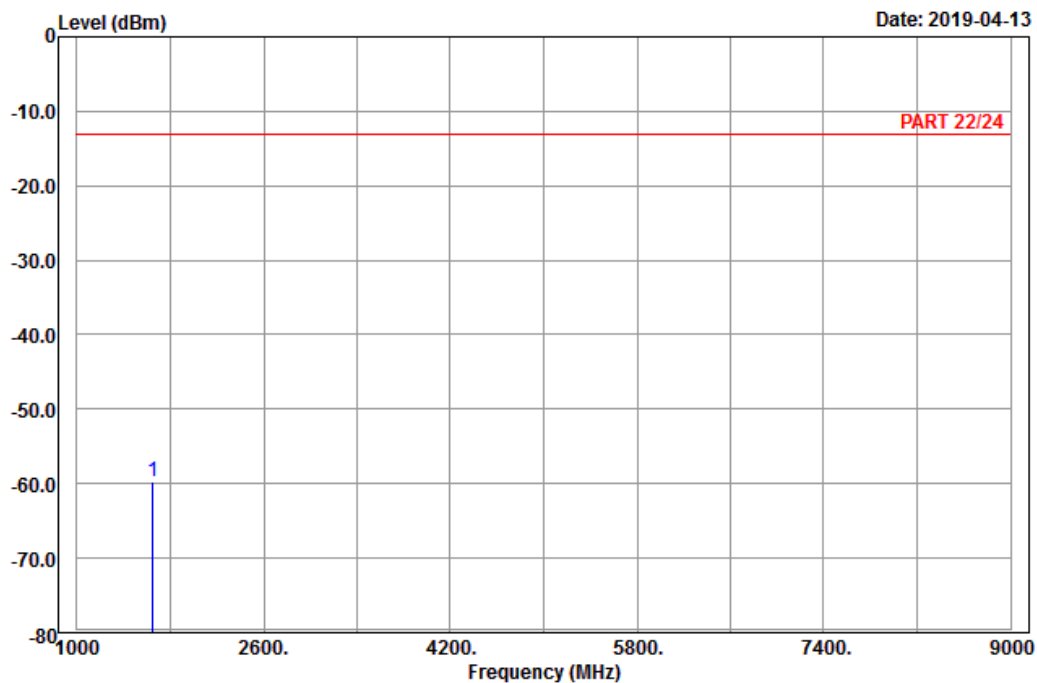


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A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20407
 Tested by: Karl Lee

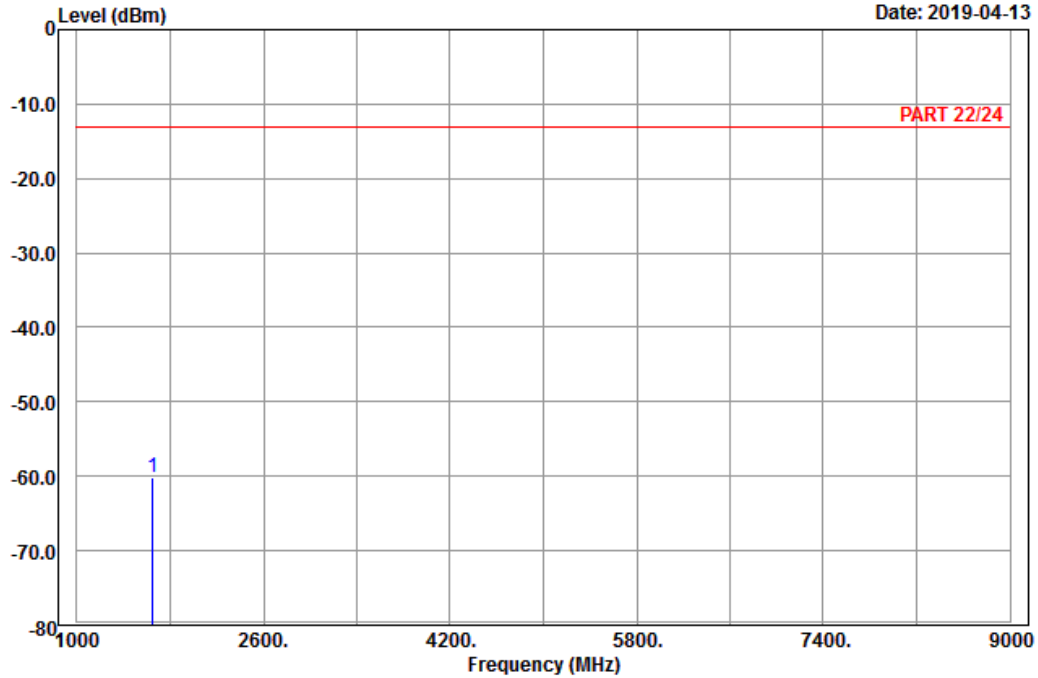
	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 1649.40	-59.78	-67.51	-13.00	-46.78	7.73 Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20407
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1649.40	-60.14	-67.87	-13.00	-47.14	7.73	Peak

Middle Channel

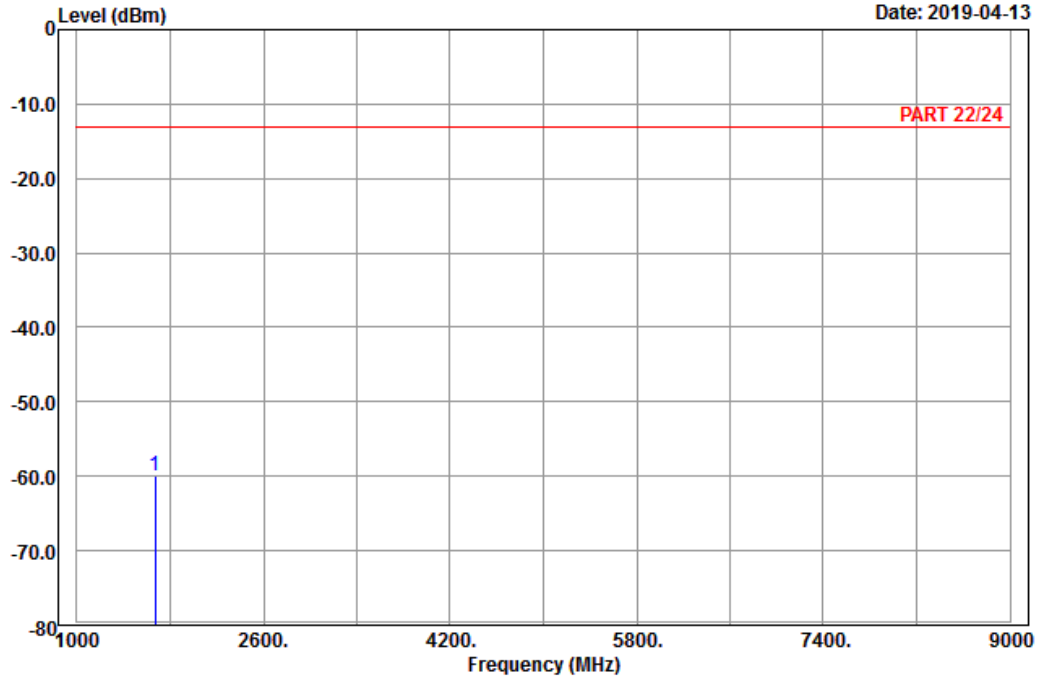


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A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20525
 Tested by: Karl Lee

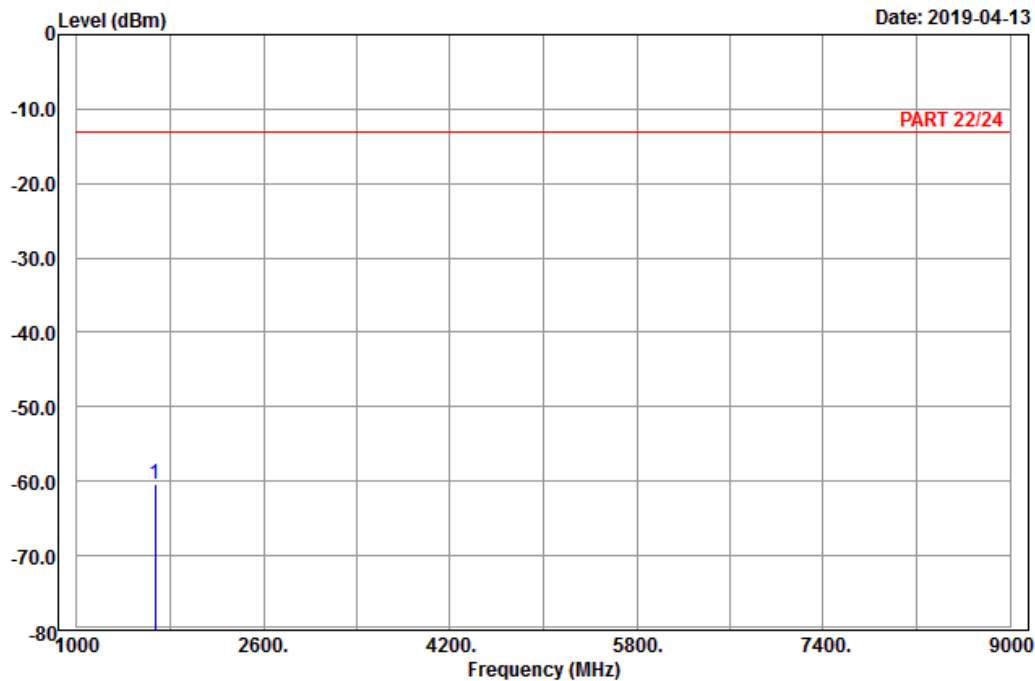
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1673.00	-59.97	-67.88	-13.00	-46.97	7.91	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20525
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1673.00	-60.42	-68.33	-13.00	-47.42	7.91	Peak

High Channel

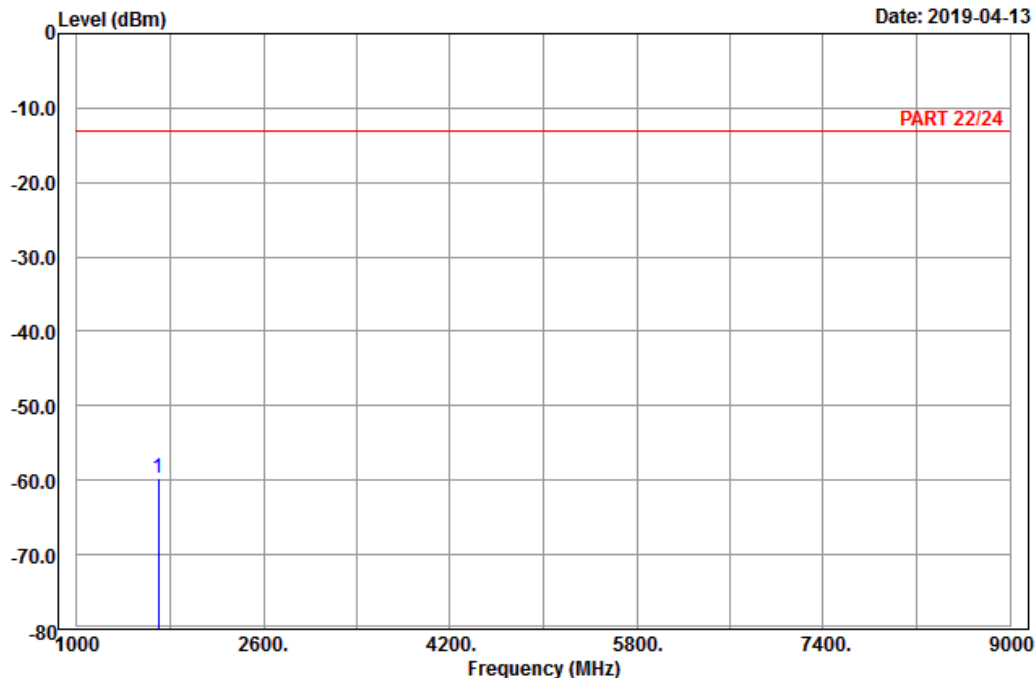


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20643
 Tested by: Karl Lee

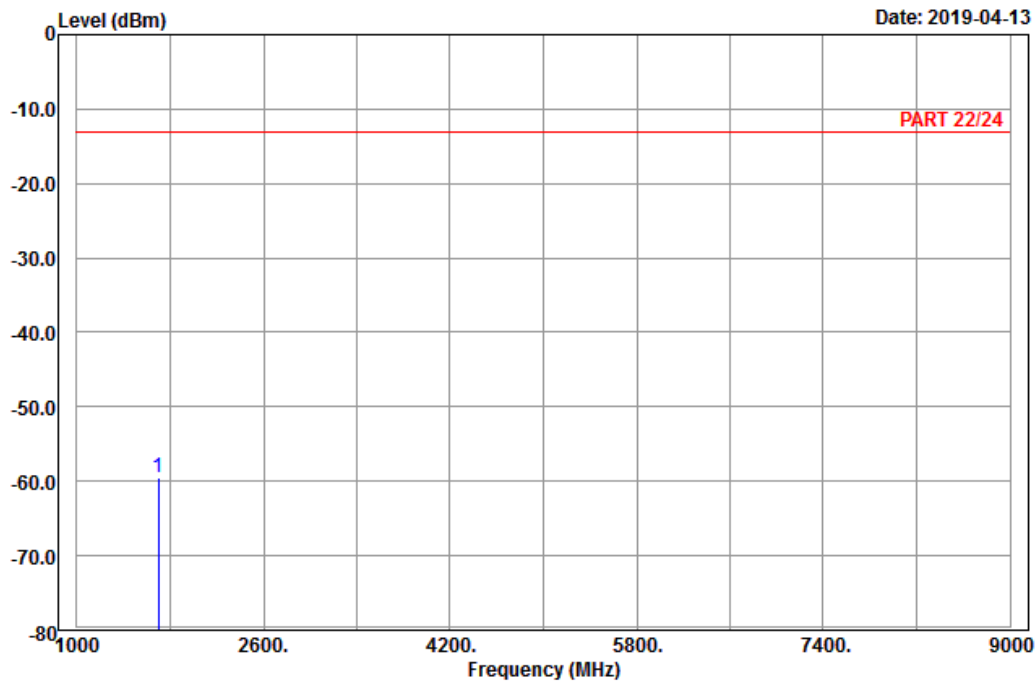
	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 1696.60	-59.77	-67.91	-13.00	-46.77	8.14 Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20643
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1696.60	-59.42	-67.56	-13.00	-46.42	8.14	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

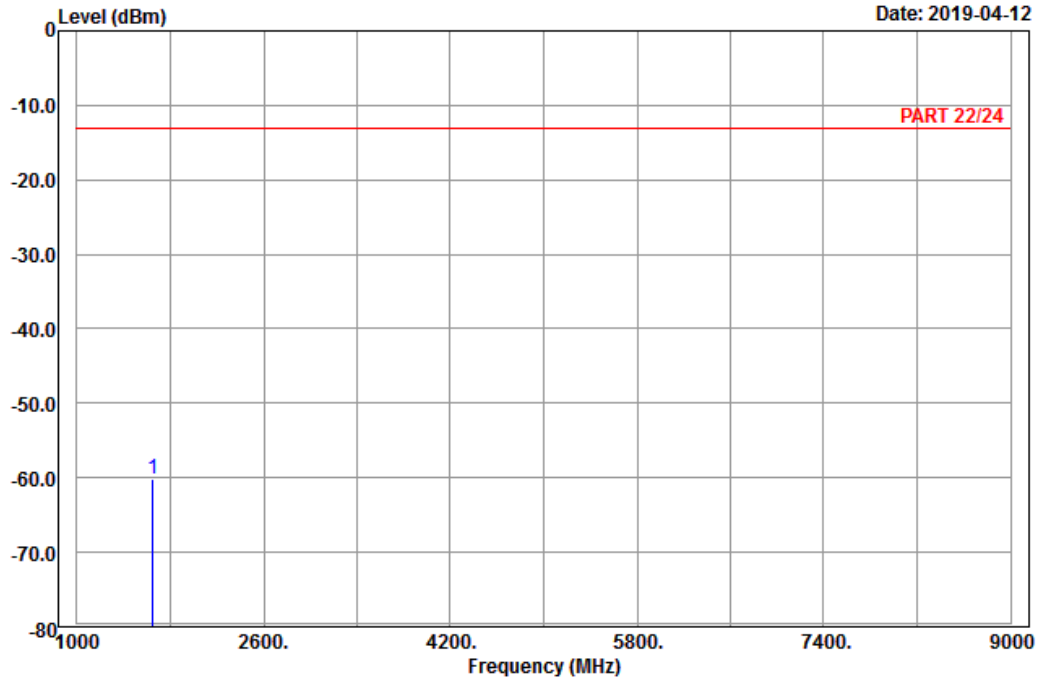


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A D T

Data: 5

Date: 2019-04-12



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5_Link_CH20425
Tested by: Karl Lee

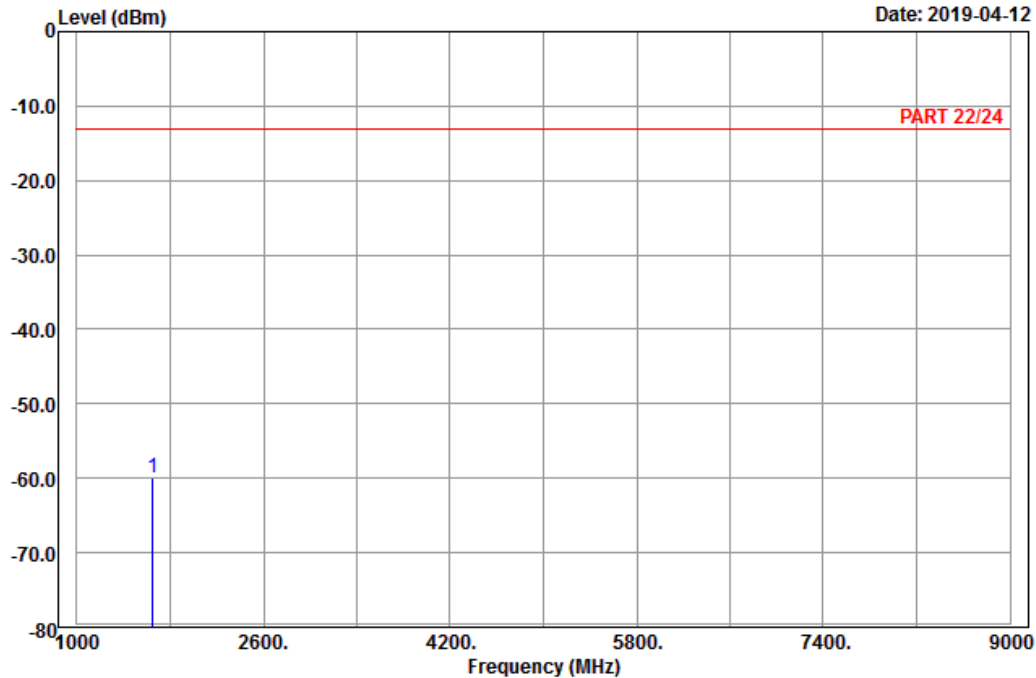
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1653.00	-60.07	-67.80	-13.00	-47.07	7.73	Peak



A D T

Data: 6

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20425
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1653.00	-60.02	-67.75	-13.00	-47.02	7.73	Peak

Middle Channel

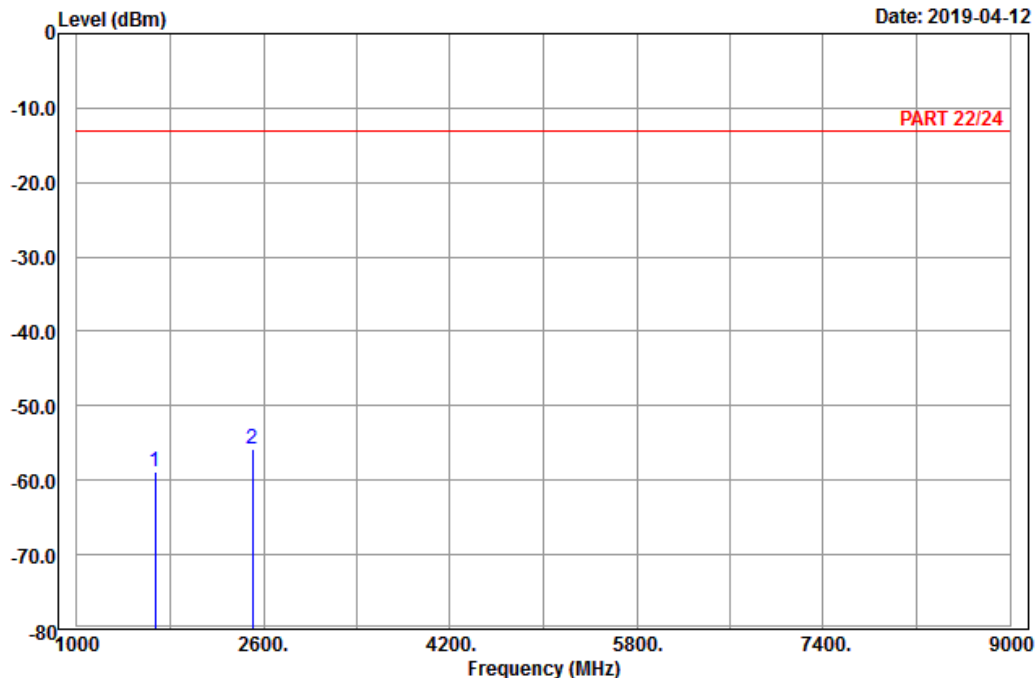


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20525
 Tested by: Karl Lee

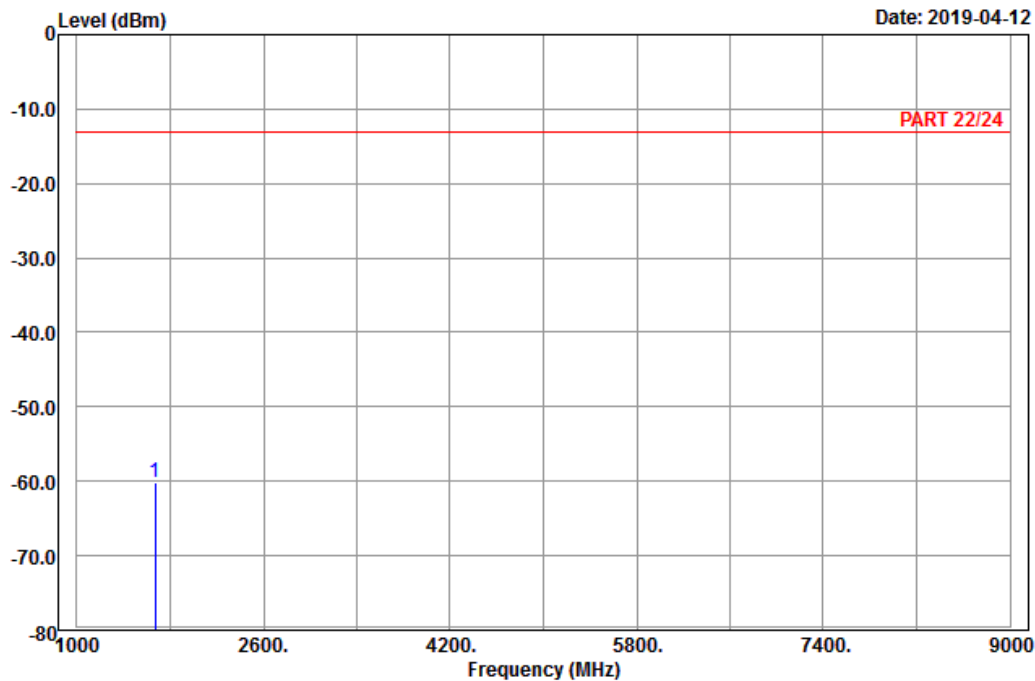
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-58.96	-66.87	-13.00	-45.96	7.91	Peak
2	2509.50	-55.79	-67.07	-13.00	-42.79	11.28	Peak



A D T

Data: 6

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20525
 Tested by: Karl Lee

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

High Channel

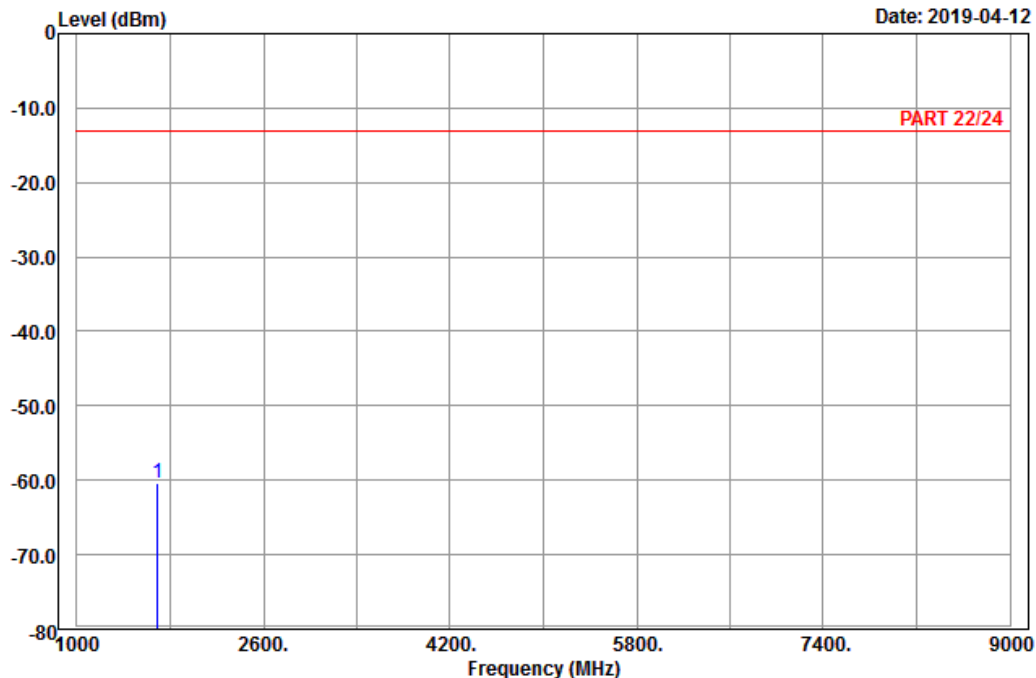


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20625
 Tested by: Karl Lee

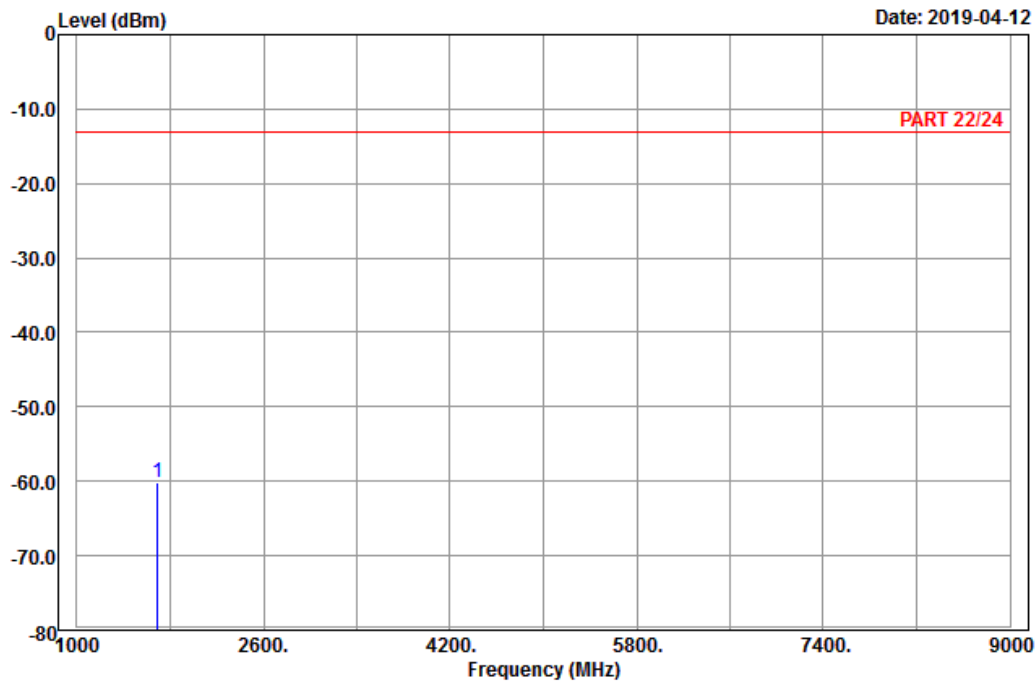
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1693.00	-60.46	-68.48	-13.00	-47.46	8.02	Peak



A D T

Data: 6

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20625
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1693.00	-60.25	-68.27	-13.00	-47.25	8.02	Peak

Channel Bandwidth: 10 MHz / QPSK
Low Channel

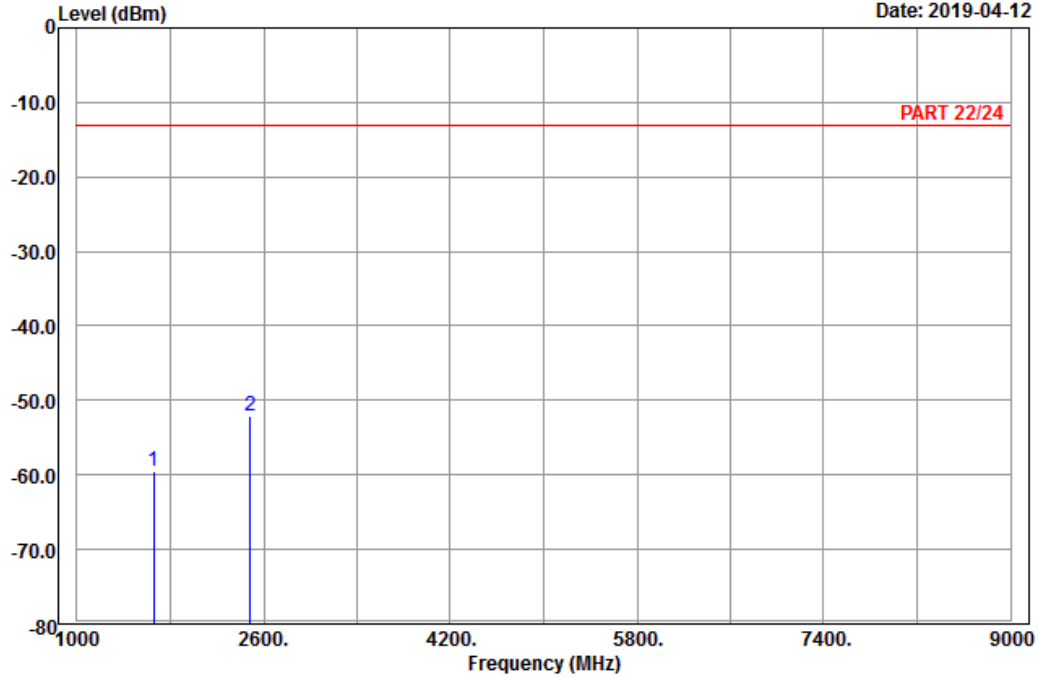


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A D T

Data: 5

Date: 2019-04-12



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5_Link_CH20450
Tested by: Karl Lee

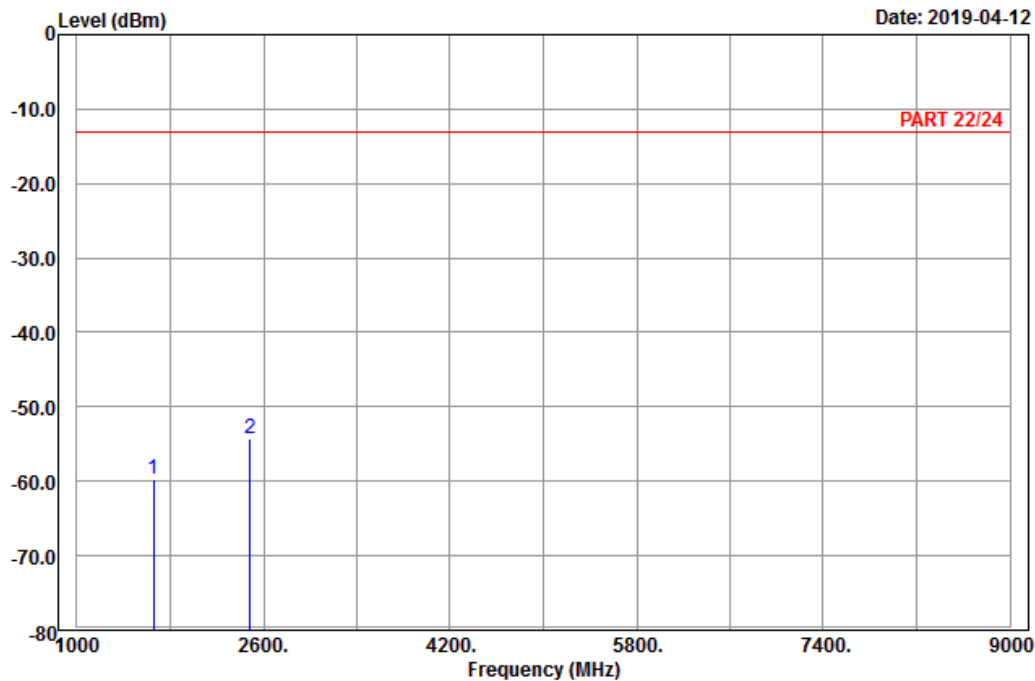
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1658.00	-59.55	-67.46	-13.00	-46.55	7.91	Peak
2 pp	2487.00	-52.11	-63.15	-13.00	-39.11	11.04	Peak



A D T

Data: 6

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20450
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1658.00	-59.65	-67.56	-13.00	-46.65	7.91	Peak
2 pp	2487.00	-54.27	-65.31	-13.00	-41.27	11.04	Peak

Middle Channel

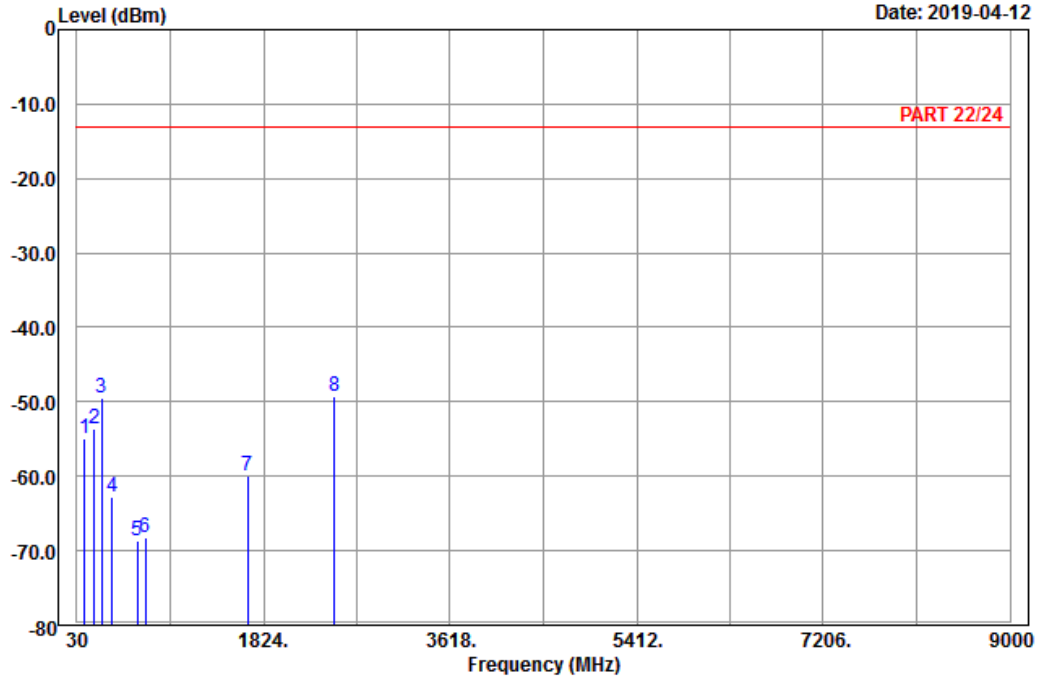


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A D T

Data: 9

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20525
 Tested by: Karl Lee

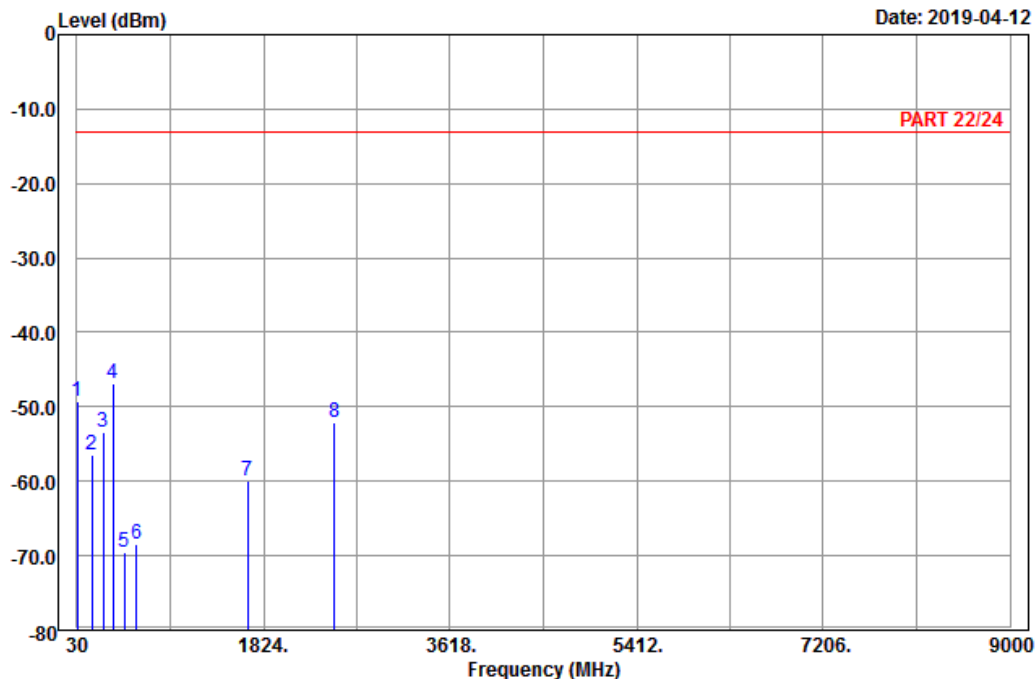
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	100.47	-54.97	-44.97	-13.00	-41.97	-10.00	Peak
2	196.86	-53.63	-47.58	-13.00	-40.63	-6.05	Peak
3	271.11	-49.46	-43.76	-13.00	-36.46	-5.70	Peak
4	366.50	-62.73	-58.23	-13.00	-49.73	-4.50	Peak
5	608.00	-68.70	-69.04	-13.00	-55.70	0.34	Peak
6	692.00	-68.32	-67.98	-13.00	-55.32	-0.34	Peak
7	1673.00	-59.87	-67.78	-13.00	-46.87	7.91	Peak
8 pp	2509.50	-49.19	-60.47	-13.00	-36.19	11.28	Peak



A D T

Data: 10

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20525
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	33.78	-49.24	-38.26	-13.00	-36.24	-10.98	Peak
2	172.56	-56.43	-50.03	-13.00	-43.43	-6.40	Peak
3	280.29	-53.44	-47.66	-13.00	-40.44	-5.78	Peak
4 pp	378.40	-46.85	-42.97	-13.00	-33.85	-3.88	Peak
5	485.50	-69.48	-64.61	-13.00	-56.48	-4.87	Peak
6	604.50	-68.48	-68.86	-13.00	-55.48	0.38	Peak
7	1673.00	-59.97	-67.88	-13.00	-46.97	7.91	Peak
8	2509.50	-52.06	-63.34	-13.00	-39.06	11.28	Peak

High Channel

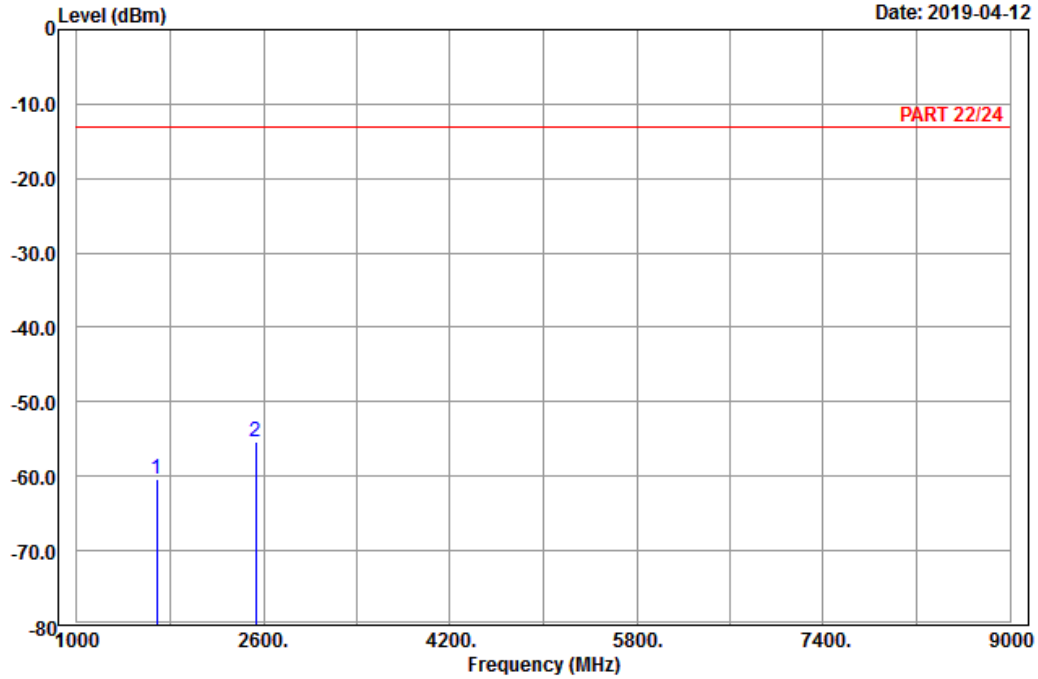


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 5_Link_CH20600
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1688.00	-60.33	-68.35	-13.00	-47.33	8.02	Peak
2	2532.00	-55.47	-66.85	-13.00	-42.47	11.38	Peak

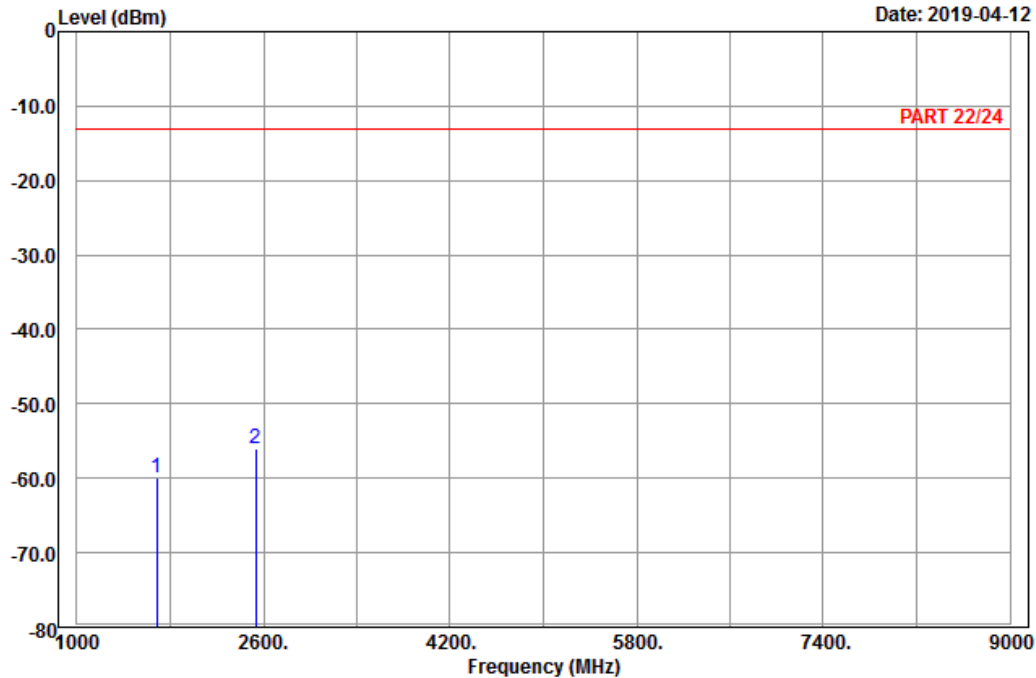


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-04-12



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 5_Link_CH20600
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1688.00	-60.02	-68.04	-13.00	-47.02	8.02	Peak
2 pp	2532.00	-55.92	-67.30	-13.00	-42.92	11.38	Peak

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

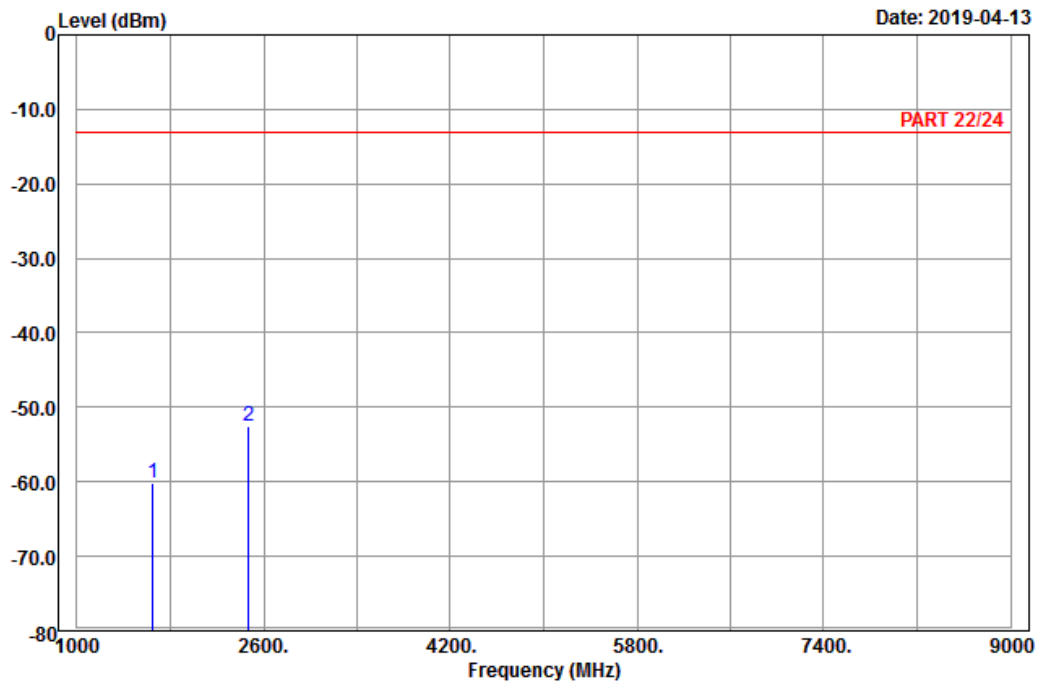


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH26797
 Tested by: Karl Lee

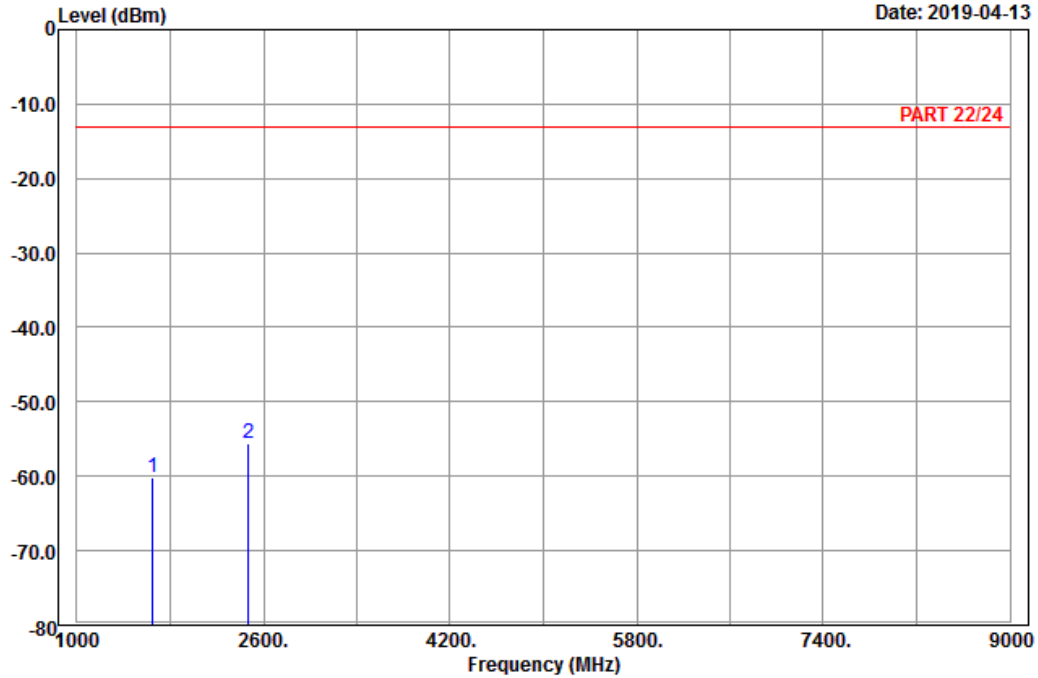
	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	1649.40	-60.24	-67.97	-13.00	-47.24	7.73	Peak
2 pp	2474.10	-52.57	-63.60	-13.00	-39.57	11.03	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26797
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1649.40	-60.17	-67.90	-13.00	-47.17	7.73	Peak
2 pp	2474.10	-55.54	-66.57	-13.00	-42.54	11.03	Peak

Middle Channel

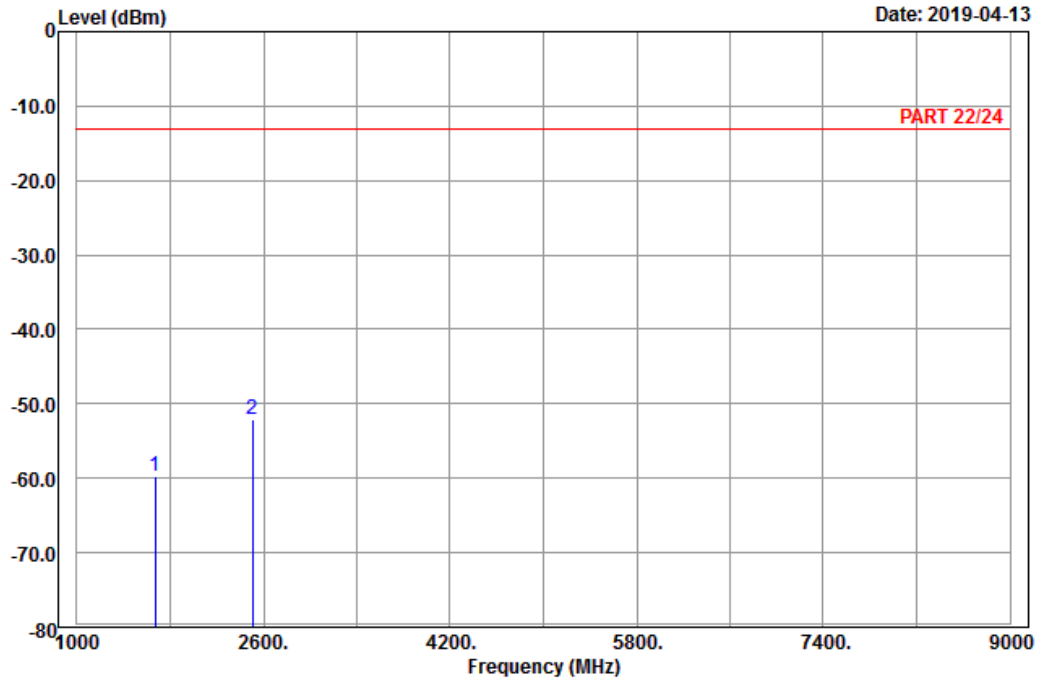


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH26915
 Tested by: Karl Lee

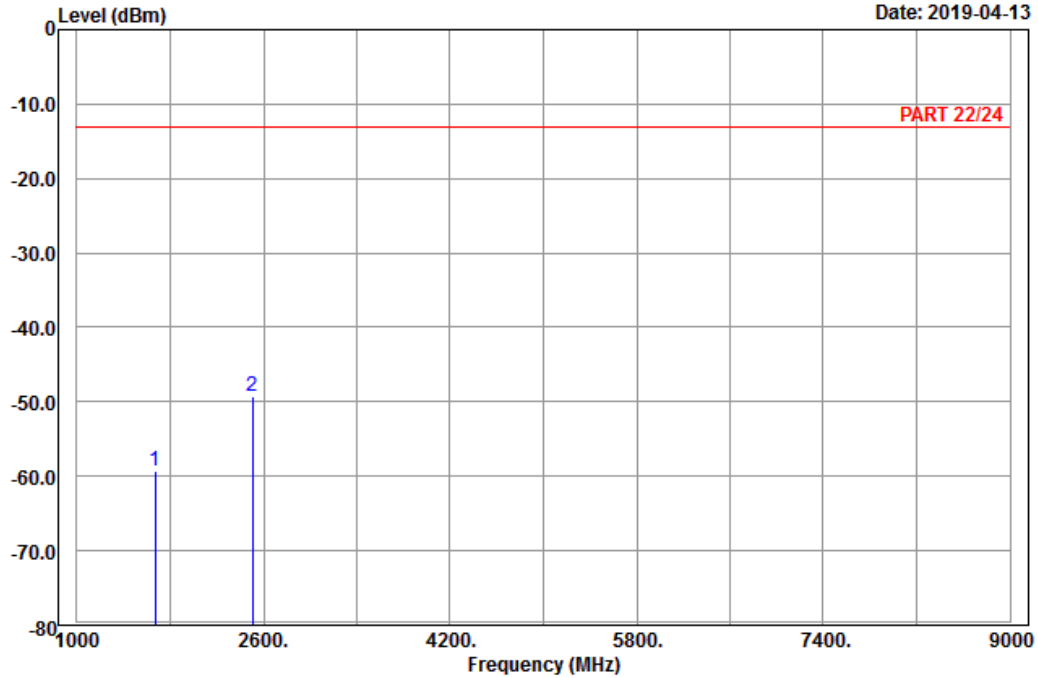
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-59.78	-67.69	-13.00	-46.78	7.91	Peak
2	2509.50	-52.11	-63.39	-13.00	-39.11	11.28	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26915
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-59.36	-67.27	-13.00	-46.36	7.91	Peak
2 pp	2509.50	-49.37	-60.65	-13.00	-36.37	11.28	Peak

High Channel

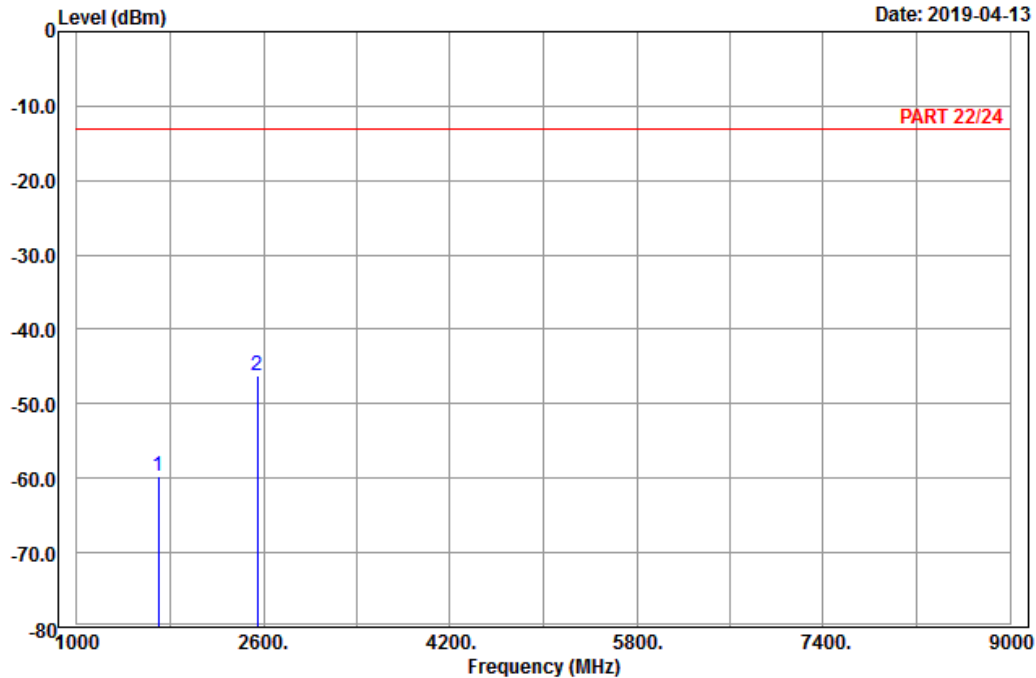


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH27033
 Tested by: Karl Lee

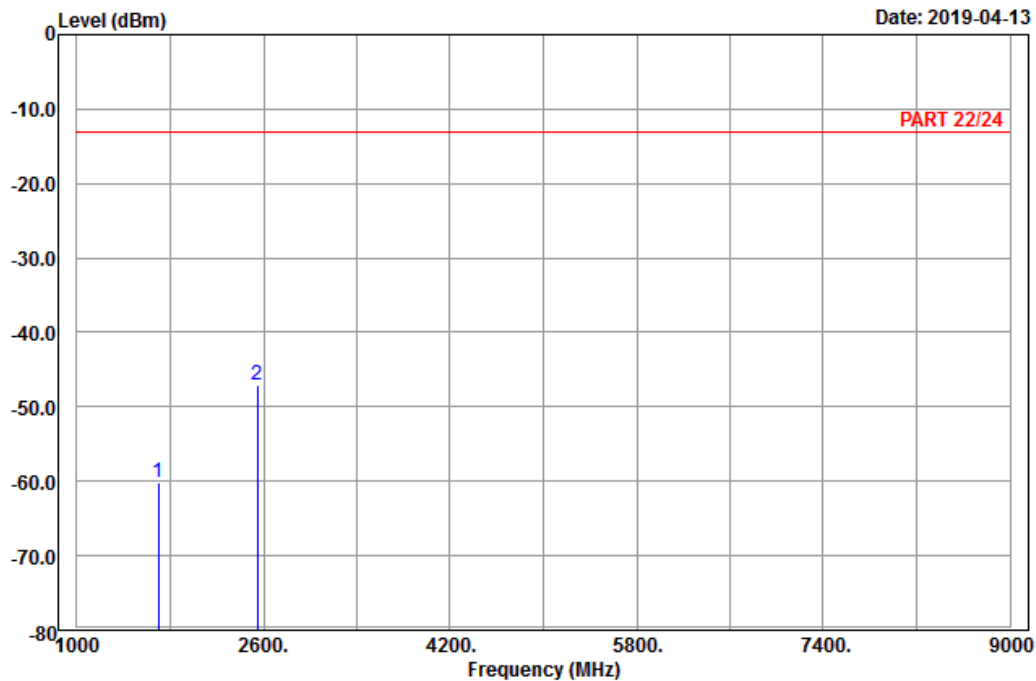
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1696.60	-59.74	-67.88	-13.00	-46.74	8.14	Peak
2	2544.90	-46.27	-57.74	-13.00	-33.27	11.47	Peak



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Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH27033
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1696.60	-60.21	-68.35	-13.00	-47.21	8.14	Peak
2 pp	2544.90	-47.07	-58.54	-13.00	-34.07	11.47	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

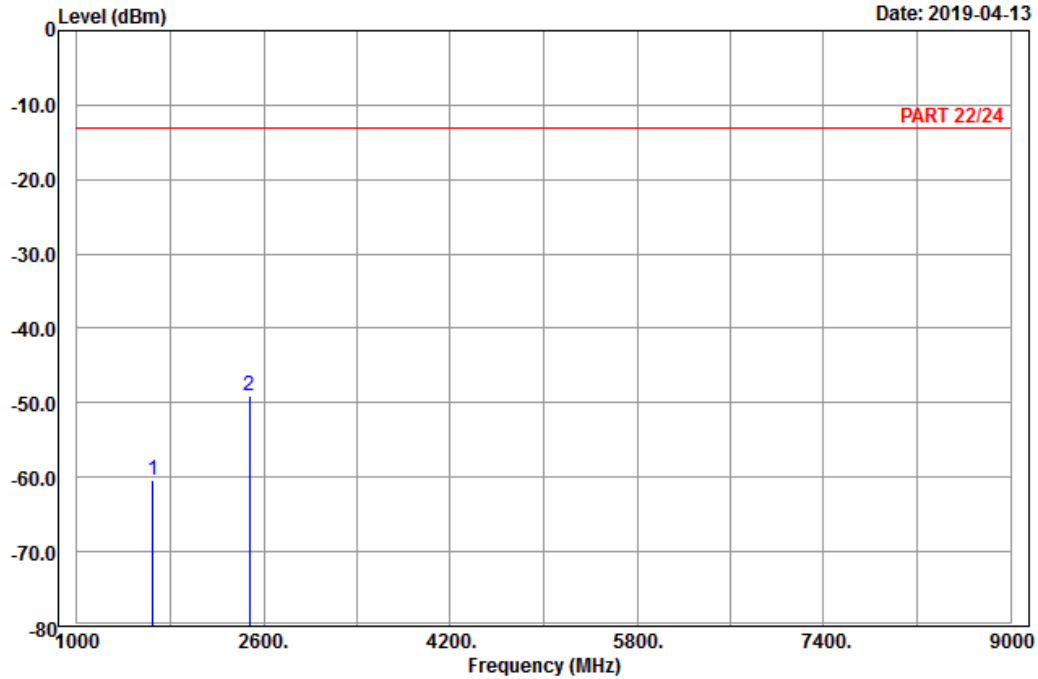


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26_Link_CH26815
Tested by: Karl Lee

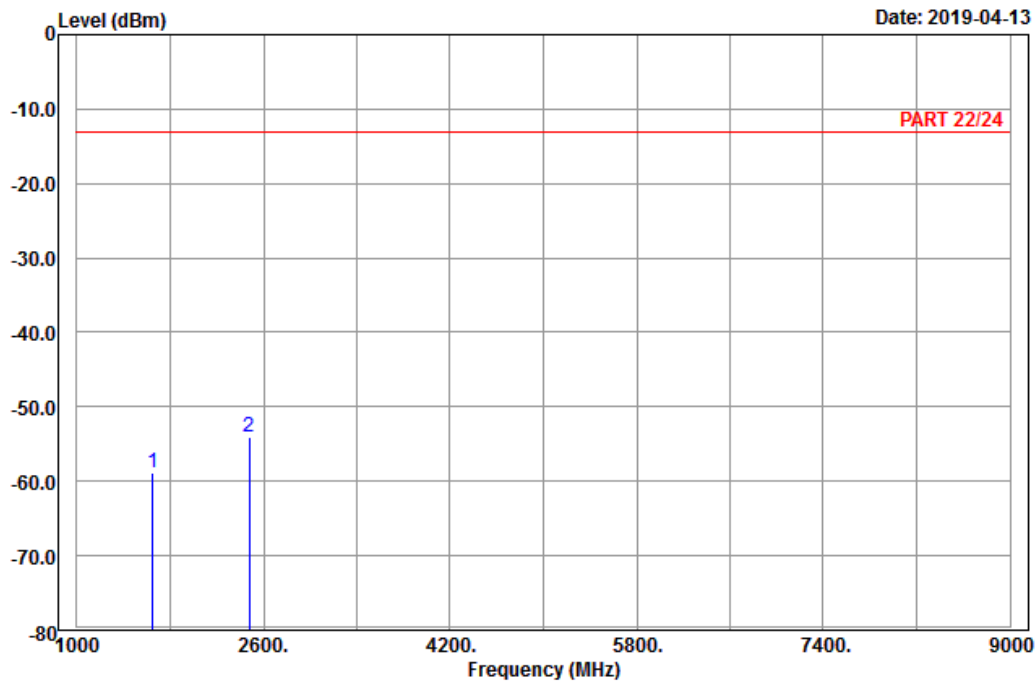
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1653.00	-60.45	-68.18	-13.00	-47.45	7.73	Peak
2 pp	2479.50	-48.97	-60.00	-13.00	-35.97	11.03	Peak



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Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26815
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1653.00	-58.92	-66.65	-13.00	-45.92	7.73	Peak
2 pp	2479.50	-54.06	-65.09	-13.00	-41.06	11.03	Peak

Middle Channel

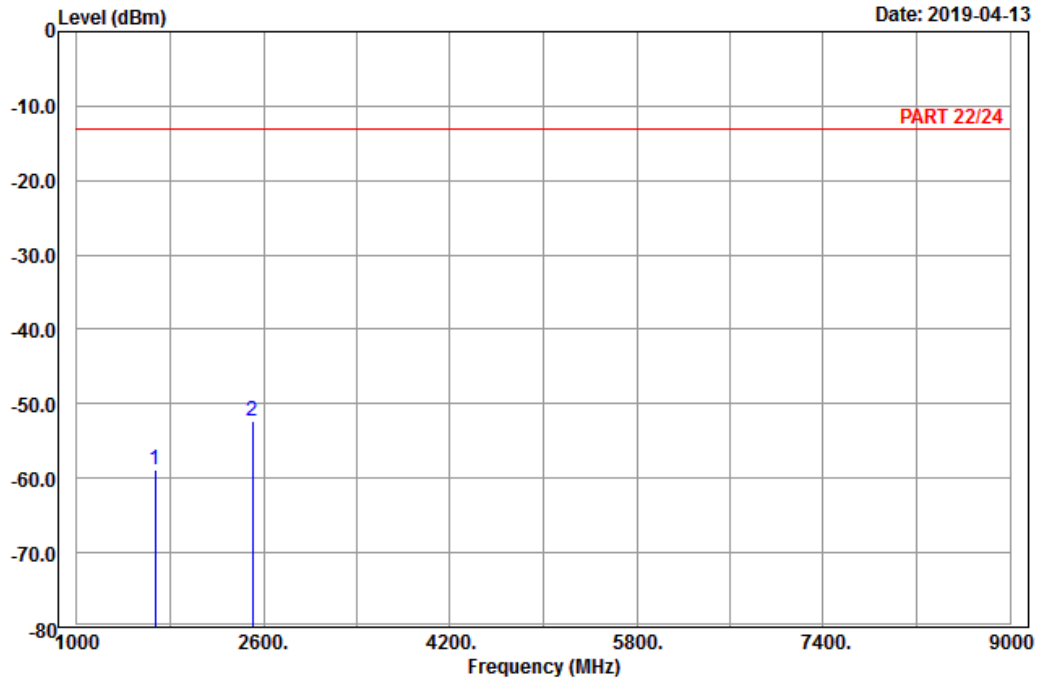


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH26915
 Tested by: Karl Lee

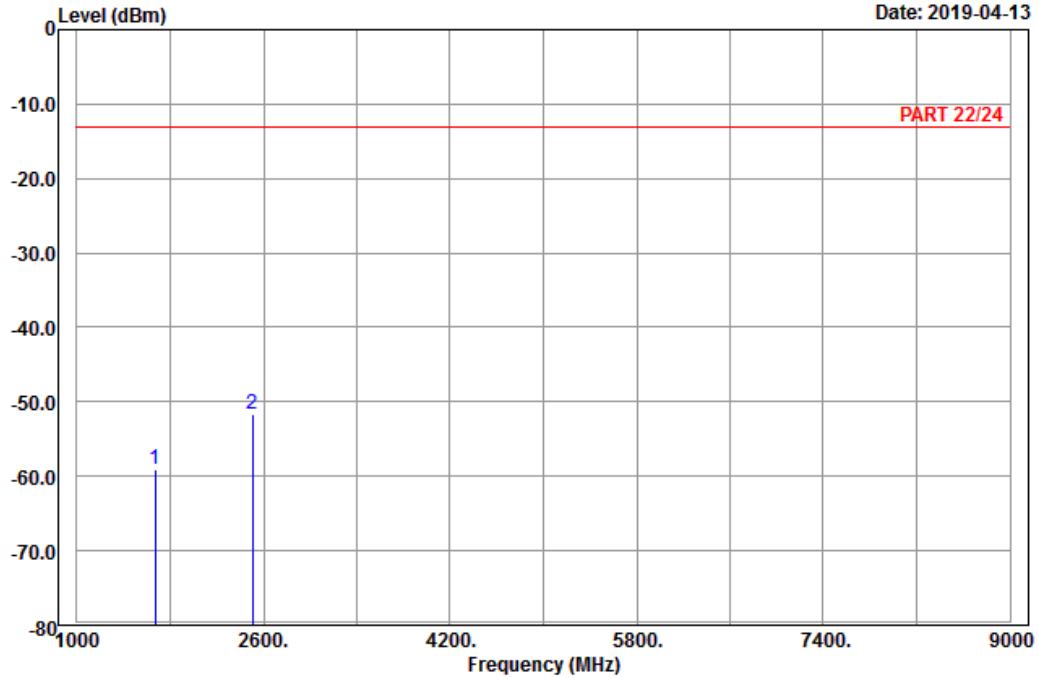
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-58.78	-66.69	-13.00	-45.78	7.91	Peak
2	2509.50	-52.27	-63.55	-13.00	-39.27	11.28	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26915
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-59.14	-67.05	-13.00	-46.14	7.91	Peak
2 pp	2509.50	-51.68	-62.96	-13.00	-38.68	11.28	Peak

High Channel

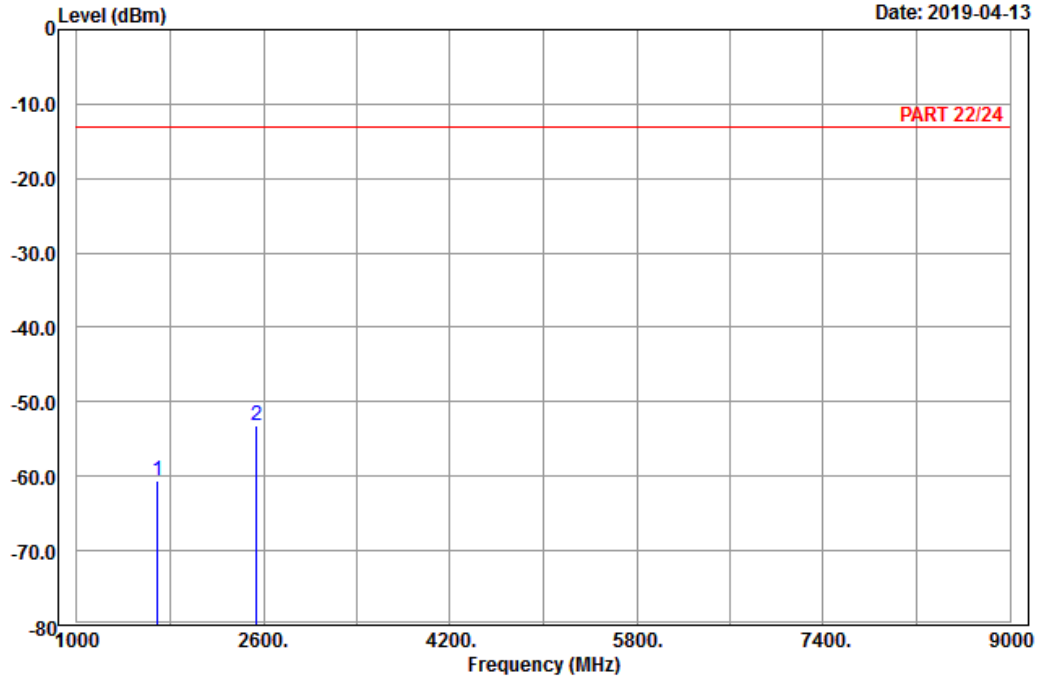


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH27015
 Tested by: Karl Lee

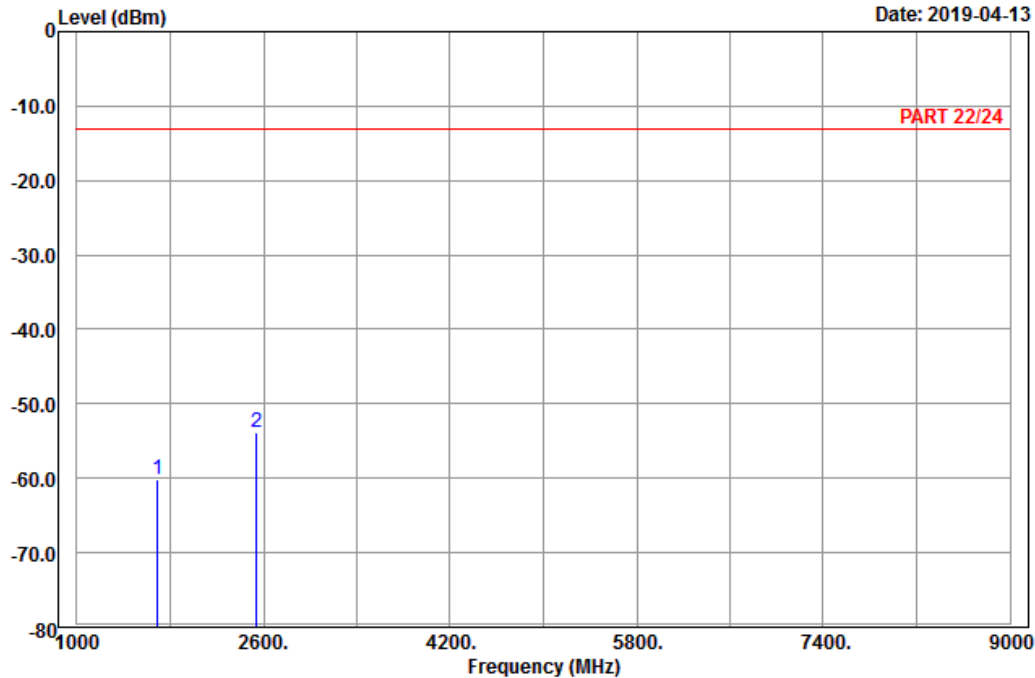
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1693.00	-60.55	-68.57	-13.00	-47.55	8.02	Peak
2	2539.50	-53.22	-64.69	-13.00	-40.22	11.47	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH27015
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1693.00	-60.23	-68.25	-13.00	-47.23	8.02	Peak
2 pp	2539.50	-53.77	-65.24	-13.00	-40.77	11.47	Peak

Channel Bandwidth: 15 MHz / QPSK
Low Channel

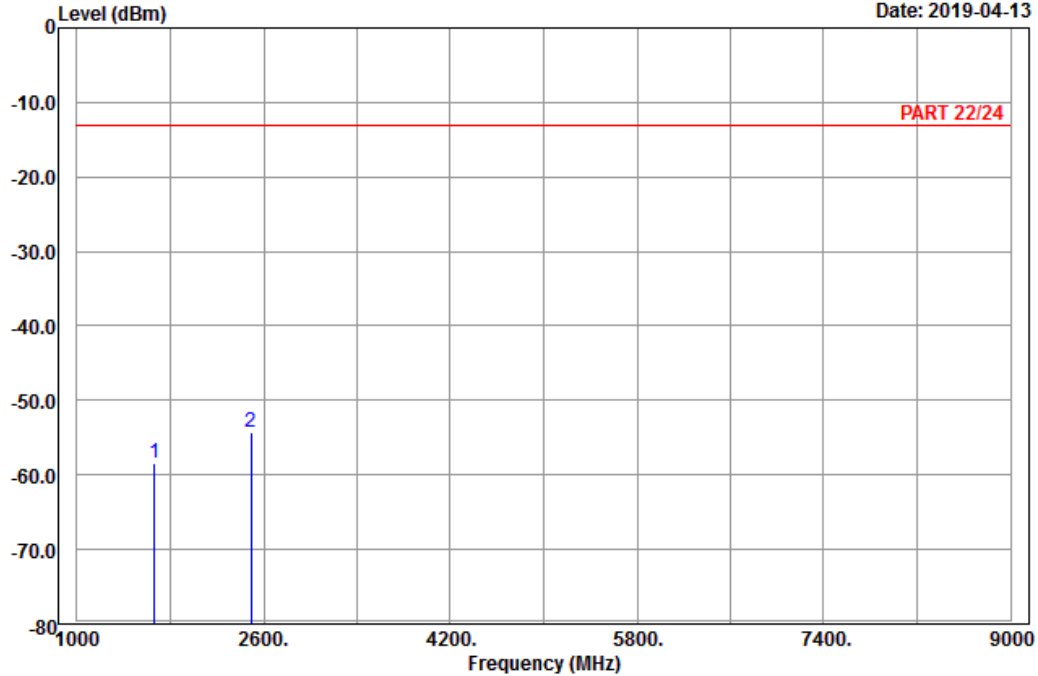


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26_Link_CH26865
Tested by: Karl Lee

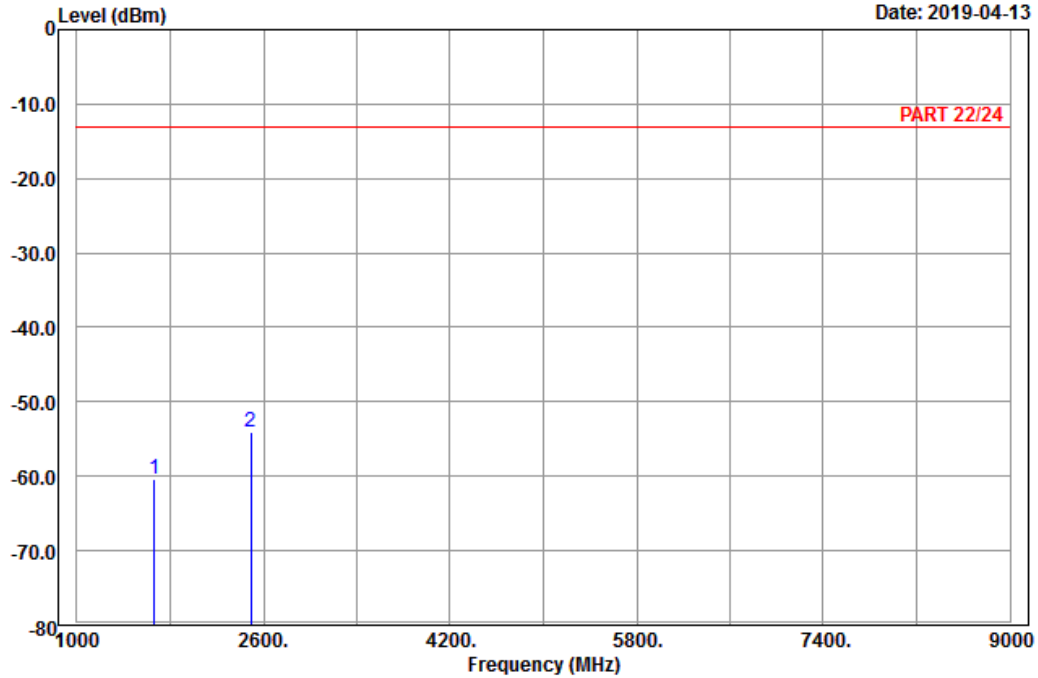
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1663.00	-58.47	-66.38	-13.00	-45.47	7.91	Peak
2 pp	2494.50	-54.27	-65.31	-13.00	-41.27	11.04	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26865
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1663.00	-60.43	-68.34	-13.00	-47.43	7.91	Peak
2 pp	2494.50	-54.07	-65.11	-13.00	-41.07	11.04	Peak

Middle Channel

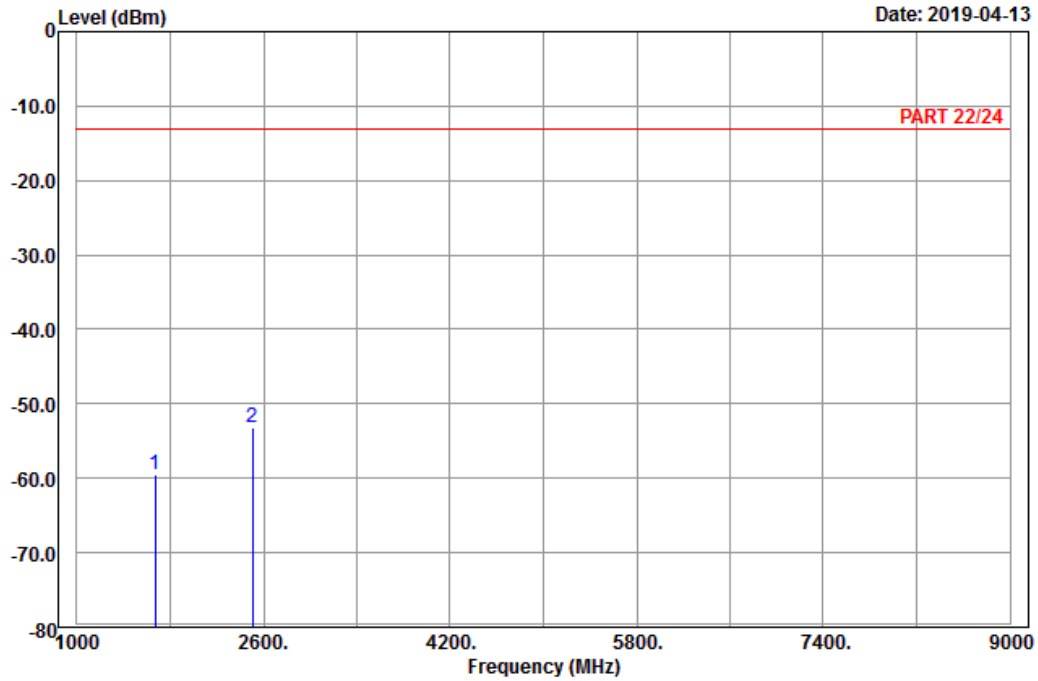


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH26915
 Tested by: Karl Lee

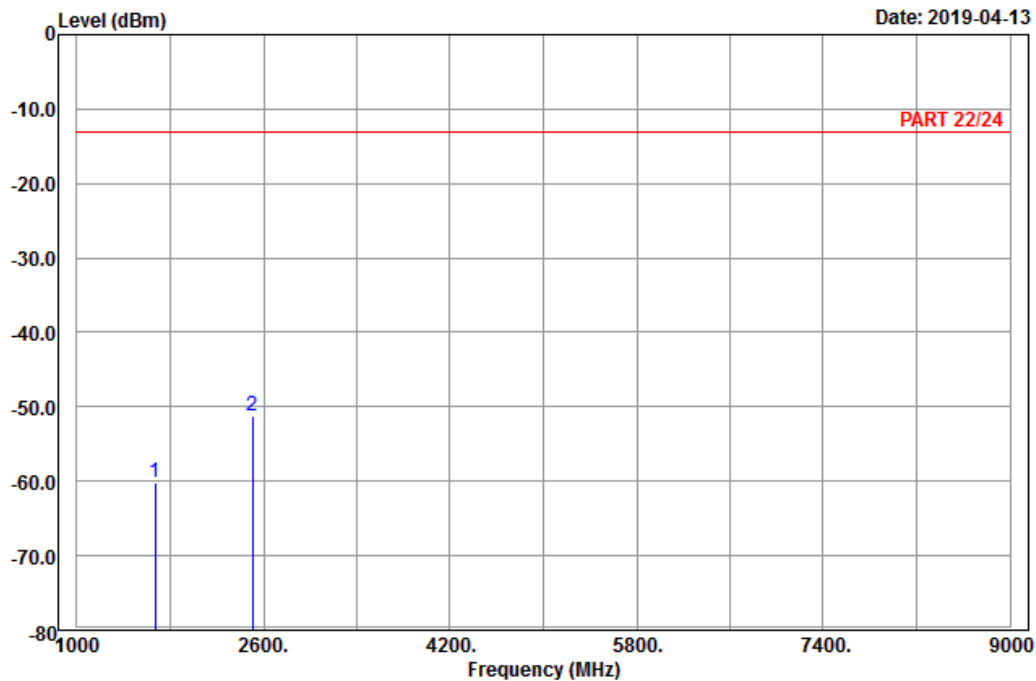
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-59.49	-67.40	-13.00	-46.49	7.91	Peak
2	2509.50	-53.17	-64.45	-13.00	-40.17	11.28	Peak



A D T

Data: 6

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26915
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-60.07	-67.98	-13.00	-47.07	7.91	Peak
2 pp	2509.50	-51.15	-62.43	-13.00	-38.15	11.28	Peak

High Channel

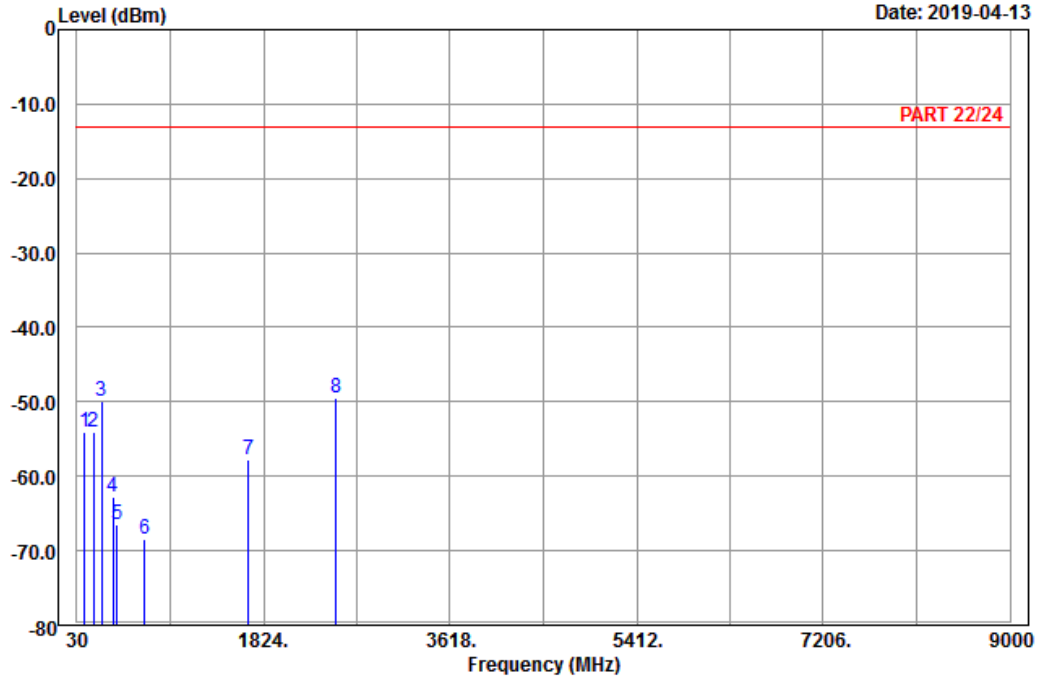


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 26_Link_CH26965
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	101.55	-53.97	-44.08	-13.00	-40.97	-9.89	Peak
2	191.46	-54.09	-48.31	-13.00	-41.09	-5.78	Peak
3	267.06	-50.02	-44.36	-13.00	-37.02	-5.66	Peak
4	377.00	-62.83	-58.90	-13.00	-49.83	-3.93	Peak
5	418.30	-66.39	-63.25	-13.00	-53.39	-3.14	Peak
6	682.90	-68.41	-68.12	-13.00	-55.41	-0.29	Peak
7	1683.00	-57.67	-65.69	-13.00	-44.67	8.02	Peak
8 pp	2524.50	-49.57	-60.95	-13.00	-36.57	11.38	Peak

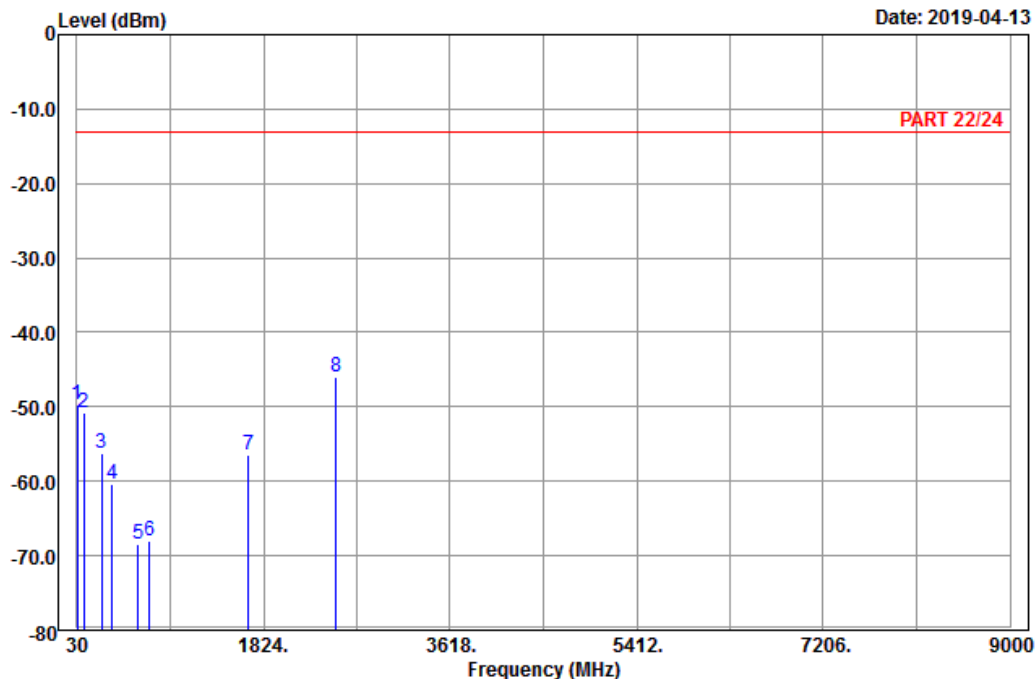


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2019-04-13



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 26_Link_CH26965
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	34.86	-49.66	-38.56	-13.00	-36.66	-11.10	Peak
2	94.26	-50.72	-40.27	-13.00	-37.72	-10.45	Peak
3	270.57	-56.34	-50.65	-13.00	-43.34	-5.69	Peak
4	366.50	-60.40	-55.90	-13.00	-47.40	-4.50	Peak
5	620.60	-68.34	-68.54	-13.00	-55.34	0.20	Peak
6	729.80	-67.92	-66.99	-13.00	-54.92	-0.93	Peak
7	1683.00	-56.42	-64.44	-13.00	-43.42	8.02	Peak
8 pp	2524.50	-46.03	-57.41	-13.00	-33.03	11.38	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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Fax: 886-2-26051924

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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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