

Partial FCC Test Report

(PART 24)

Report No.: RF180907C24-8

FCC ID: QYLEM7455V

Test Model: EM7455

Received Date: Sep. 07, 2018

Test Date: Sep. 21, 2018 ~ Sep. 25, 2018

Issued Date: Oct. 02, 2018

Applicant: Getac Technology Corporation.

Address: 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

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

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

Test Location (1): No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

Test Location (2): 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
RF180907C24-8	Original Release	Oct. 02, 2018

1 Certificate of Conformity

Product: Wireless Module

Brand: Sierra wireless Inc.

Test Model: EM7455

Sample Status: Identical Prototype

Applicant: Getac Technology Corporation.

Test Date: Sep. 21, 2018 ~ Sep. 25, 2018

Standards: FCC Part 24, Subpart E

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

Prepared by : Gina Liu, **Date:** Oct. 02, 2018
Gina Liu / Specialist

Approved by : Dylan Chiou, **Date:** Oct. 02, 2018
Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1046 24.232(d)	Peak to Average Ratio	N/A	Refer to Note
2.1055 24.235	Frequency Stability	N/A	Refer to Note
2.1049 24.238(b)	Occupied Bandwidth	N/A	Refer to Note
24.238(b)	Band Edge Measurements	N/A	Refer to Note
2.1051 24.238	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -35.33 dB at 3800.00 MHz.

Note:

This report is a Class II change 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 TTL report no.: B15W50341-FCC-RF for module (Brand: Sierra wireless Inc., Model: EM7455)

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) ($\pm$)
Radiated Emissions up to 1 GHz	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	N9038A	MY51210203	Mar. 16, 2018	Mar. 15, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
BILOG Antenna SCHWARZBECK	VULB 9168	9168-616	Dec. 14, 2017	Dec. 13, 2018
Horn Antenna ETS-Lindgren	3117	00143293	Dec. 13, 2017	Dec. 12, 2018
Fixed Attenuator Mini-Circuits	BW-N4W5+	PAD-ATT4-01	Jan. 29, 2018	Jan. 28, 2019
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Preamplifier Agilent	310N	187226	Jun. 19, 2018	Jun. 18, 2019
Preamplifier Agilent	83017A	MY39501357	Jun. 19, 2018	Jun. 18, 2019
HORN Antenna EMCI	EMC 184045	980116	Dec. 12, 2017	Dec. 11, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RF C-SMS-100-SMS- 120+RFC-SMS-1 00-SMS-400)	Jun. 19, 2018	Jun. 18, 2019
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RF C-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	6201010284	Dec. 28, 2017	Dec. 27, 2018
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019
Radio Communication Analyzer	MT8821C	6261786083	Dec. 21, 2017	Dec. 20, 2018

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in 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 IC7450I-1.

3 General Information

3.1 General Description of EUT

Product	Wireless 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	1852.4 ~ 1907.6 MHz
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1914.3 MHz
	LTE Band 25 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1913.5 MHz
	LTE Band 25 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1912.5 MHz
	LTE Band 25 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1910.0 MHz
	LTE Band 25 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1907.5 MHz
	LTE Band 25 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1905.0 MHz
Max. EIRP Power	WCDMA	108.89 mW
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	117.22 mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	118.30 mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	119.40 mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	120.23 mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	121.06 mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	122.18 mW
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	133.14 mW
	LTE Band 25 (Channel Bandwidth: 3 MHz)	134.06 mW
	LTE Band 25 (Channel Bandwidth: 5 MHz)	134.99 mW
	LTE Band 25 (Channel Bandwidth: 10 MHz)	135.93 mW
	LTE Band 25 (Channel Bandwidth: 15 MHz)	137.18 mW
	LTE Band 25 (Channel Bandwidth: 20 MHz)	138.13 mW
Antenna Type	Refer to Note as below	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

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

Product	Brand	Model
Notebook	Getac	V110

Antenna Type	Brand	Model	Antenna Gain		
			WCDMA II	LTE B2	LTE B25
Fixed Internal	Getac	Main Ant.: 422129000025 Aux. Ant.: 421129200001	Main: 3.57 Aux.: -1.70	Main: 3.57 Aux.: -1.70	Main: 3.57 Aux.: -1.70

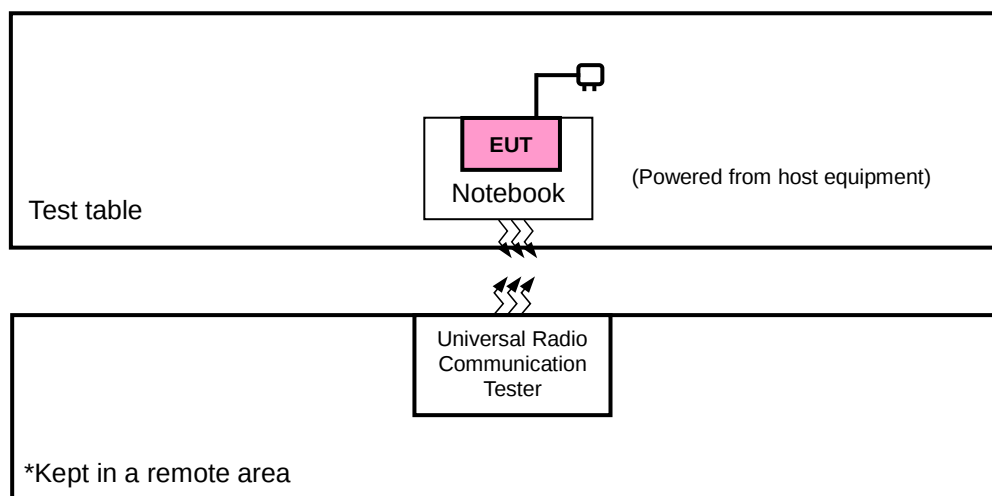
2. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	Chicony	A12-065N2A	I/P: 100-240 Vac, 50/60 Hz, 1.7 A O/P: 19 Vdc, 3.42 A 1.8m DC cable with 1 core attached
Li-Ion Battery	Getac	BP3S1P2100-S	11.1 Vdc, 2100 mA
BT/WLAN Module	Intel	8265NGW	-
WWAN Module	Sierra	EM7455	-
GPS	GlobalSat	MC1010	-
LCD Panel	New IPS KD	KD116N11-30NP-A9	11.6" inch
CPU	Intel	Kabylake	i7-7600U VPRO
DDR	Transcend	-	8GB *2
SSD	Lite-on	-	256GB *1

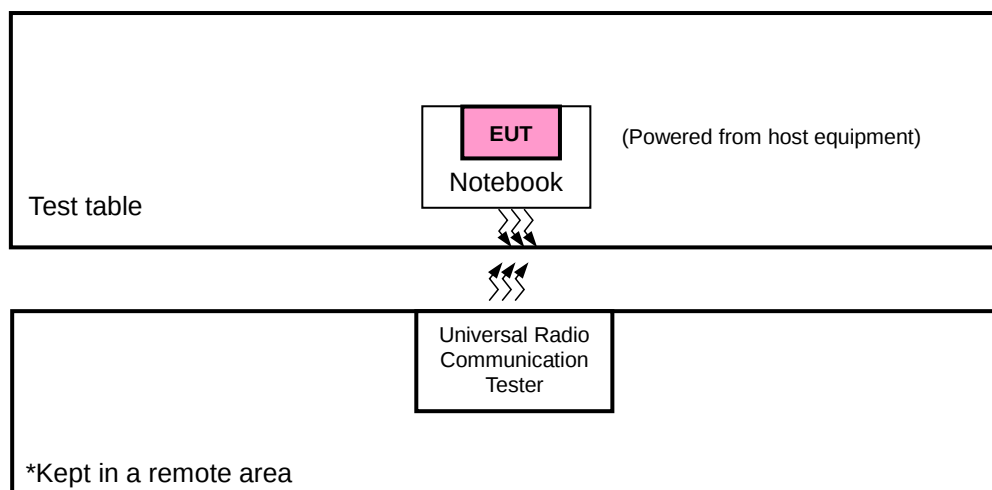
3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.I.R.P. Test>



3.2.1 Description of Support Units

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

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook	Getac	V110	N/A	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	EIRP	Radiated Emission
WCDMA	Z-plane	Z-axis
LTE Band 2	Z-plane	Z-axis
LTE Band 25	Z-plane	Z-axis

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Radiated Emission Below 1GHz	9262 to 9538	9400	WCDMA
-	Radiated Emission Above 1GHz	9262 to 9538	9262, 9400, 9538	WCDMA

LTE Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	18700 to 19100	19100	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 0 RB Offset

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

LTE Band 25

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	26140 to 26590	26365	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK	1 RB / 0 RB Offset

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

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	26 deg. C, 58 % RH	120 Vac, 60 Hz	Charles Hsiao, Harry Hsueh, Karl Lee
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao, Harry Hsueh, 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 24

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 2 watts e.i.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 from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

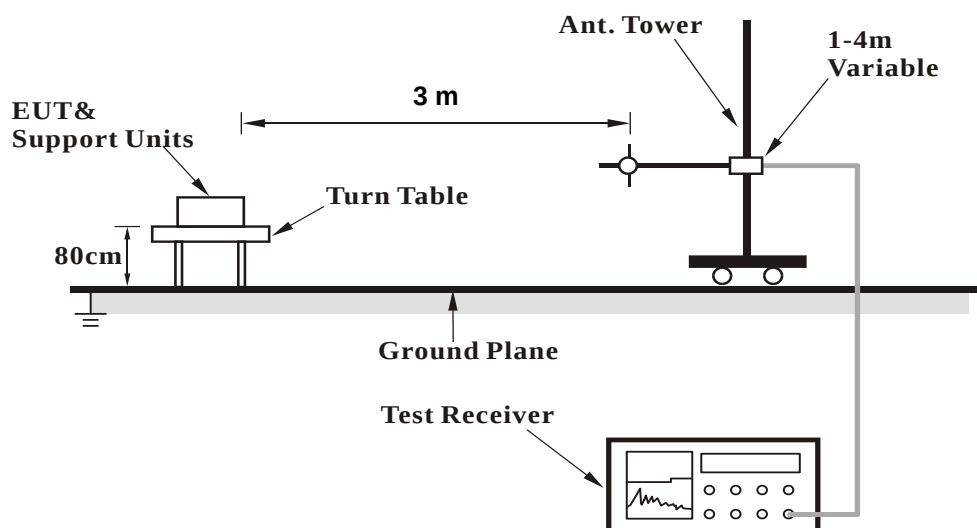
Conducted Power Measurement:

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.

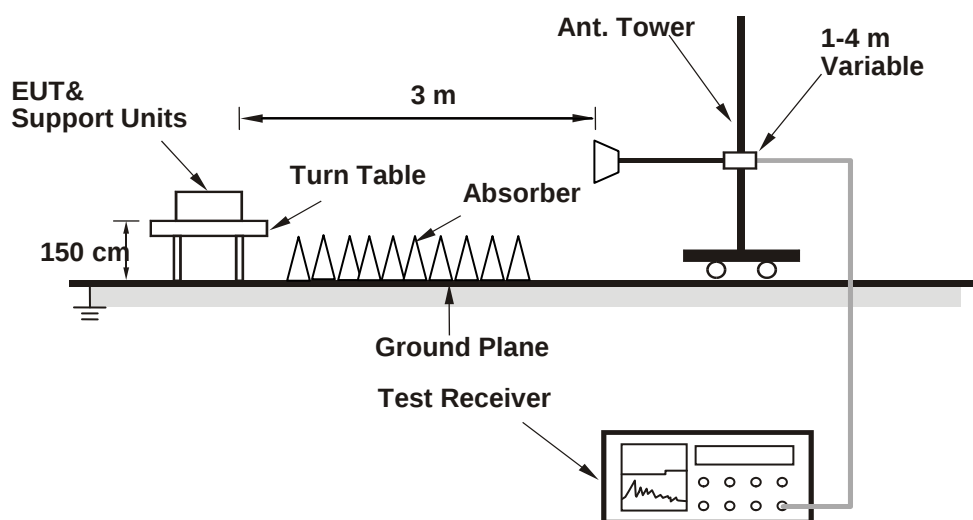
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

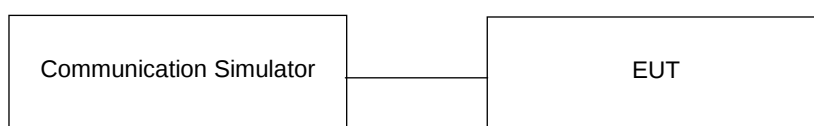


<Radiated Emission above 1 GHz>



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 II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	17.88	17.90	17.70
HSDPA Subtest-1	17.09	17.13	16.59
HSDPA Subtest-2	16.56	16.43	17.10
HSDPA Subtest-3	17.10	17.09	17.10
HSDPA Subtest-4	17.07	17.10	17.08
DC-HSDPA Subtest-1	16.46	16.79	16.40
DC-HSDPA Subtest-2	16.40	16.78	16.41
DC-HSDPA Subtest-3	16.26	16.59	16.26
DC-HSDPA Subtest-4	16.25	16.58	16.27
HSUPA Subtest-1	16.69	16.65	16.86
HSUPA Subtest-2	16.15	16.17	16.17
HSUPA Subtest-3	15.66	15.77	15.77
HSUPA Subtest-4	16.05	16.36	16.35
HSUPA Subtest-5	17.13	17.15	17.17

LTE Band 2															
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		18700	18900	19100				Channel		18675	18900	19125	
		Frequency (MHz)		1860.0	1880.0	1900.0				Frequency (MHz)		1857.5	1880.0	1902.5	
20M	QPSK	1	0	18.45	18.50	18.46	0	15M	QPSK	1	0	18.37	18.42	18.31	0
		1	50	18.40	18.43	18.41	0			1	37	18.45	18.46	18.41	0
		1	99	18.29	18.32	18.30	0			1	74	18.29	18.24	18.25	0
		50	0	18.46	18.49	18.47	0			36	0	18.39	18.42	18.38	0
		50	25	18.43	18.46	18.44	0			36	19	18.41	18.40	18.43	0
		50	50	18.35	18.38	18.36	0			36	39	18.35	18.38	18.27	0
	16QAM	100	0	18.38	18.41	18.39	0			75	0	18.36	18.40	18.33	0
		1	0	18.40	18.43	18.38	0		16QAM	1	0	18.34	18.37	18.36	0
		1	50	18.34	18.36	18.32	0			1	37	18.33	18.32	18.29	0
		1	99	18.29	18.28	18.22	0			1	74	18.23	18.16	18.27	0
		50	0	18.42	18.46	18.37	0			36	0	18.36	18.37	18.39	0
		50	25	18.34	18.36	18.44	0			36	19	18.24	18.39	18.41	0
10M	QPSK	50	50	18.26	18.29	18.31	0			36	39	18.27	18.25	18.26	0
		100	0	18.35	18.35	18.39	0			75	0	18.24	18.33	18.33	0
	16QAM	1	0	18.40	18.43	18.38	0		QPSK	1	0	18.32	18.33	18.39	0
		1	24	18.44	18.40	18.46	0			1	12	18.36	18.47	18.40	0
		1	49	18.19	18.23	18.25	0			1	24	18.21	18.32	18.26	0
		25	0	18.39	18.44	18.37	0			12	0	18.36	18.47	18.47	0
	16QAM	25	12	18.43	18.40	18.36	0			12	6	18.35	18.43	18.35	0
		25	25	18.33	18.32	18.33	0			12	13	18.31	18.33	18.31	0
3M	QPSK	50	0	18.28	18.36	18.33	0			25	0	18.34	18.36	18.38	0
		1	0	18.22	18.19	18.30	0		16QAM	1	0	18.24	18.40	18.31	0
		1	24	18.18	18.32	18.36	0			1	12	18.26	18.40	18.23	0
		1	49	18.01	18.13	18.20	0			1	24	18.15	18.13	18.04	0
		25	0	18.34	18.33	18.40	0			12	0	18.19	18.38	18.30	0
		25	12	18.22	18.23	18.23	0			12	6	18.19	18.28	18.17	0
3M	QPSK	25	25	18.27	18.16	18.15	0			12	13	18.18	18.25	18.15	0
		50	0	18.28	18.26	18.20	0			25	0	18.20	18.32	18.19	0
	16QAM	1	0	18.38	18.38	18.38	0		QPSK	1	0	18.30	18.36	18.38	0
		1	7	18.44	18.43	18.46	0			1	2	18.45	18.47	18.38	0
		1	14	18.28	18.24	18.24	0			1	5	18.27	18.30	18.20	0
		8	0	18.44	18.41	18.43	0			3	0	18.38	18.40	18.45	0
		8	3	18.36	18.42	18.40	0			3	1	18.34	18.41	18.36	0
		8	7	18.30	18.34	18.32	0			3	3	18.27	18.34	18.35	0
3M	16QAM	15	0	18.31	18.37	18.35	0			6	0	18.35	18.35	18.33	0
		1	0	18.30	18.29	18.23	0		16QAM	1	0	18.31	18.41	18.35	0
		1	7	18.27	18.34	18.14	0			1	2	18.24	18.30	18.38	0
		1	14	18.20	18.20	18.10	0			1	5	18.12	18.08	18.13	0
		8	0	18.29	18.27	18.22	0			3	0	18.19	18.20	18.37	0
		8	3	18.23	18.30	18.34	0			3	1	18.29	18.23	18.22	0
3M	QPSK	8	7	18.34	18.24	18.26	0			3	3	18.27	18.25	18.03	0
		15	0	18.25	18.19	18.28	0			6	0	18.23	18.21	18.27	0
	16QAM	1	0	18.30	18.29	18.23	0		QPSK	1	0	18.30	18.36	18.38	0
		1	7	18.27	18.34	18.14	0			1	2	18.45	18.47	18.38	0
		1	14	18.20	18.20	18.10	0			1	5	18.27	18.30	18.20	0
		8	0	18.29	18.27	18.22	0			3	0	18.38	18.40	18.45	0
		8	3	18.23	18.30	18.34	0			3	1	18.34	18.41	18.36	0
		8	7	18.34	18.24	18.26	0			3	3	18.27	18.25	18.03	0
3M	16QAM	15	0	18.25	18.19	18.28	0			6	0	18.23	18.21	18.27	0
		1	0	18.30	18.29	18.23	0		16QAM	1	0	18.31	18.41	18.35	0
		1	7	18.27	18.34	18.14	0			1	2	18.24	18.30	18.38	0
		1	14	18.20	18.20	18.10	0			1	5	18.12	18.08	18.13	0
		8	0	18.29	18.27	18.22	0			3	0	18.19	18.20	18.37	0
		8	3	18.23	18.30	18.34	0			3	1	18.29	18.23	18.22	0

LTE Band 25

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		26140	26365	26590				Channel		26115	26365	26615	
		Frequency (MHz)		1860.0	1882.5	1905.0				Frequency (MHz)		1857.5	1882.5	1907.5	
20M	QPSK	1	0	18.83	18.81	18.87	0	15M	QPSK	1	0	18.81	18.74	18.77	0
		1	50	18.91	18.89	18.95	0			1	37	18.88	18.84	18.88	0
		1	99	18.67	18.65	18.71	0			1	74	18.63	18.57	18.66	0
		50	0	18.88	18.86	18.90	0			36	0	18.86	18.79	18.89	0
		50	25	18.88	18.86	18.92	0			36	19	18.80	18.85	18.91	0
		50	50	18.79	18.77	18.83	0			36	39	18.75	18.72	18.73	0
		100	0	18.89	18.87	18.93	0			75	0	18.85	18.81	18.88	0
	16QAM	1	0	18.79	18.73	18.83	0		16QAM	1	0	18.83	18.69	18.73	0
		1	50	18.86	18.79	18.93	0			1	37	18.82	18.77	18.90	0
		1	99	18.64	18.58	18.66	0			1	74	18.51	18.49	18.60	0
		50	0	18.85	18.82	18.85	0			36	0	18.72	18.73	18.81	0
		50	25	18.81	18.76	18.82	0			36	19	18.71	18.67	18.84	0
		50	50	18.79	18.68	18.74	0			36	39	18.65	18.66	18.79	0
		100	0	18.87	18.80	18.84	0			75	0	18.84	18.73	18.75	0
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		26090	26365	26640				Channel		26065	26365	26665	
		Frequency (MHz)		2855.0	1882.5	1910.0				Frequency (MHz)		1852.5	1882.5	1912.5	
10M	QPSK	1	0	18.69	18.74	18.73	0	5M	QPSK	1	0	18.73	18.65	18.77	0
		1	24	18.81	18.67	18.91	0			1	12	18.84	18.88	18.82	0
		1	49	18.57	18.58	18.53	0			1	24	18.50	18.42	18.63	0
		25	0	18.78	18.74	18.79	0			12	0	18.81	18.69	18.59	0
		25	12	18.77	18.63	18.78	0			12	6	18.76	18.75	18.72	0
		25	25	18.60	18.68	18.69	0			12	13	18.64	18.74	18.71	0
		50	0	18.78	18.80	18.90	0			25	0	18.77	18.79	18.68	0
	16QAM	1	0	18.75	18.65	18.65	0		16QAM	1	0	18.66	18.64	18.80	0
		1	24	18.73	18.64	18.70	0			1	12	18.73	18.70	18.80	0
		1	49	18.47	18.44	18.52	0			1	24	18.46	18.52	18.52	0
		25	0	18.71	18.66	18.80	0			12	0	18.62	18.70	18.65	0
		25	12	18.72	18.80	18.63	0			12	6	18.69	18.80	18.77	0
		25	25	18.65	18.67	18.73	0			12	13	18.59	18.69	18.69	0
		50	0	18.66	18.80	18.75	0			25	0	18.78	18.72	18.86	0
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		26055	26365	26675				Channel		26047	26365	26683	
		Frequency (MHz)		1851.5	1882.5	1913.5				Frequency (MHz)		1850.7	1882.5	1914.3	
3M	QPSK	1	0	18.66	18.76	18.84	0	1.4M	QPSK	1	0	18.79	18.76	18.77	0
		1	7	18.71	18.70	18.82	0			1	2	18.80	18.81	18.83	0
		1	14	18.55	18.56	18.63	0			1	5	18.52	18.49	18.53	0
		8	0	18.74	18.78	18.73	0			3	0	18.74	18.83	18.84	0
		8	3	18.72	18.82	18.78	0			3	1	18.84	18.70	18.77	0
		8	7	18.73	18.72	18.71	0			3	3	18.72	18.69	18.59	0
		15	0	18.87	18.79	18.88	0			6	0	18.72	18.69	18.77	0
	16QAM	1	0	18.69	18.68	18.69	0		16QAM	1	0	18.70	18.75	18.67	0
		1	7	18.78	18.69	18.88	0			1	2	18.74	18.67	18.67	0
		1	14	18.62	18.43	18.49	0			1	5	18.56	18.57	18.52	0
		8	0	18.70	18.80	18.85	0			3	0	18.67	18.53	18.87	0
		8	3	18.65	18.63	18.79	0			3	1	18.78	18.65	18.79	0
		8	7	18.56	18.55	18.67	0			3	3	18.64	18.61	18.71	0
		15	0	18.68	18.78	18.87	0			6	0	18.84	18.76	18.74	0

EIRP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	9262	1852.4	-17.85	38.19	20.34	108.14	H
	9400	1880.0	-18.33	38.70	20.37	108.89	
	9538	1907.6	-19.04	39.35	20.31	107.40	
	9262	1852.4	-23.15	38.48	15.33	34.12	V
	9400	1880.0	-23.24	38.59	15.35	34.28	
	9538	1907.6	-23.59	38.87	15.28	33.73	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18607	1850.7	-24.09	44.70	20.61	115.08	H
	18900	1880.0	-24.01	44.70	20.69	117.22	
	19193	1909.3	-23.93	44.57	20.64	115.96	
	18607	1850.7	-26.64	44.27	17.63	57.94	V
	18900	1880.0	-27.17	44.87	17.70	58.88	
	19193	1909.3	-26.97	44.61	17.64	58.12	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	18607	1850.7	-25.10	44.70	19.60	91.20	H
	18900	1880.0	-25.02	44.70	19.68	92.90	
	19193	1909.3	-24.94	44.57	19.63	91.90	
	18607	1850.7	-27.65	44.27	16.62	45.92	V
	18900	1880.0	-28.18	44.87	16.69	46.67	
	19193	1909.3	-27.98	44.61	16.63	46.06	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18615	1851.5	-24.05	44.70	20.65	116.14	H
	18900	1880.0	-23.97	44.70	20.73	118.30	
	19185	1908.5	-23.89	44.57	20.68	117.03	
	18615	1851.5	-26.60	44.27	17.67	58.48	V
	18900	1880.0	-27.13	44.87	17.74	59.43	
	19185	1908.5	-26.93	44.61	17.68	58.65	
Channel Bandwidth: 3 MHz / 16QAM							
Z	18615	1851.5	-25.06	44.70	19.64	92.04	H
	18900	1880.0	-24.98	44.70	19.72	93.76	
	19185	1908.5	-24.89	44.57	19.68	92.96	
	18615	1851.5	-27.61	44.27	16.66	46.34	V
	18900	1880.0	-28.14	44.87	16.73	47.10	
	19185	1908.5	-27.94	44.61	16.67	46.48	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18625	1852.5	-24.01	44.70	20.69	117.22	H
	18900	1880.0	-23.93	44.70	20.77	119.40	
	19175	1907.5	-23.85	44.57	20.72	118.11	
	18625	1852.5	-26.57	44.27	17.70	58.88	V
	18900	1880.0	-27.09	44.87	17.78	59.98	
	19175	1907.5	-26.89	44.61	17.72	59.20	
Channel Bandwidth: 5 MHz / 16QAM							
Z	18625	1852.5	-25.01	44.70	19.69	93.11	H
	18900	1880.0	-24.94	44.70	19.76	94.62	
	19175	1907.5	-24.86	44.57	19.71	93.61	
	18625	1852.5	-27.58	44.27	16.69	46.67	V
	18900	1880.0	-28.10	44.87	16.77	47.53	
	19175	1907.5	-27.90	44.61	16.71	46.91	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18650	1855.0	-23.96	44.70	20.74	118.58	H
	18900	1880.0	-23.90	44.70	20.80	120.23	
	19150	1905.0	-23.81	44.57	20.76	119.21	
	18650	1855.0	-26.54	44.27	17.73	59.29	V
	18900	1880.0	-27.06	44.87	17.81	60.39	
	19150	1905.0	-26.85	44.61	17.76	59.74	
Channel Bandwidth: 10 MHz / 16QAM							
Z	18650	1855.0	-24.97	44.70	19.73	93.97	H
	18900	1880.0	-24.91	44.70	19.79	95.28	
	19150	1905.0	-24.82	44.57	19.75	94.47	
	18650	1855.0	-27.55	44.27	16.72	46.99	V
	18900	1880.0	-28.07	44.87	16.80	47.86	
	19150	1905.0	-27.85	44.61	16.76	47.46	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18675	1857.5	-23.92	44.70	20.78	119.67	H
	18900	1880.0	-23.87	44.70	20.83	121.06	
	19125	1902.5	-23.77	44.57	20.80	120.31	
	18675	1857.5	-26.50	44.27	17.77	59.84	V
	18900	1880.0	-27.02	44.87	17.85	60.95	
	19125	1902.5	-26.81	44.61	17.80	60.30	
Channel Bandwidth: 15 MHz / 16QAM							
Z	18675	1857.5	-24.92	44.70	19.78	95.06	H
	18900	1880.0	-24.88	44.70	19.82	95.94	
	19125	1902.5	-24.78	44.57	19.79	95.35	
	18675	1857.5	-27.51	44.27	16.76	47.42	V
	18900	1880.0	-28.03	44.87	16.84	48.31	
	19125	1902.5	-27.82	44.61	16.79	47.79	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 2							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	18700	1860.0	-23.88	44.70	20.82	120.78	H
	18900	1880.0	-23.83	44.70	20.87	122.18	
	19100	1900.0	-23.73	44.57	20.84	121.42	
	18700	1860.0	-26.46	44.27	17.81	60.39	V
	18900	1880.0	-26.97	44.87	17.90	61.66	
	19100	1900.0	-26.77	44.61	17.84	60.86	
Channel Bandwidth: 20 MHz / 16QAM							
Z	18700	1860.0	-24.89	44.70	19.81	95.72	H
	18900	1880.0	-24.84	44.70	19.86	96.83	
	19100	1900.0	-24.74	44.57	19.83	96.23	
	18700	1860.0	-27.47	44.27	16.80	47.86	V
	18900	1880.0	-27.98	44.87	16.89	48.87	
	19100	1900.0	-27.78	44.61	16.83	48.23	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26047	1850.7	-23.52	44.70	21.18	131.22	H
	26365	1882.5	-23.55	44.70	21.15	130.32	
	26683	1914.3	-23.33	44.57	21.24	133.14	
	26047	1850.7	-26.07	44.27	18.20	66.07	V
	26365	1882.5	-26.72	44.87	18.15	65.31	
	26683	1914.3	-26.38	44.61	18.23	66.57	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	26047	1850.7	-24.53	44.70	20.17	103.99	H
	26365	1882.5	-24.55	44.70	20.15	103.51	
	26683	1914.3	-24.34	44.57	20.23	105.51	
	26047	1850.7	-27.08	44.27	17.19	52.36	V
	26365	1882.5	-27.73	44.87	17.14	51.76	
	26683	1914.3	-27.39	44.61	17.22	52.76	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26055	1851.5	-23.48	44.70	21.22	132.43	H
	26365	1882.5	-23.52	44.70	21.18	131.22	
	26675	1913.5	-23.30	44.57	21.27	134.06	
	26055	1851.5	-26.04	44.27	18.23	66.53	V
	26365	1882.5	-26.69	44.87	18.18	65.77	
	26675	1913.5	-26.34	44.61	18.27	67.19	
Channel Bandwidth: 3 MHz / 16QAM							
Z	26055	1851.5	-24.48	44.70	20.22	105.20	H
	26365	1882.5	-24.52	44.70	20.18	104.23	
	26675	1913.5	-24.31	44.57	20.26	106.24	
	26055	1851.5	-27.04	44.27	17.23	52.84	V
	26365	1882.5	-27.70	44.87	17.17	52.12	
	26675	1913.5	-27.35	44.61	17.26	53.25	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26065	1852.5	-23.44	44.70	21.26	133.66	H
	26365	1882.5	-23.48	44.70	21.22	132.43	
	26665	1912.5	-23.27	44.57	21.30	134.99	
	26065	1852.5	-26.00	44.27	18.27	67.14	V
	26365	1882.5	-26.65	44.87	18.22	66.37	
	26665	1912.5	-26.30	44.61	18.31	67.81	
Channel Bandwidth: 5 MHz / 16QAM							
Z	26065	1852.5	-24.44	44.70	20.26	106.17	H
	26365	1882.5	-24.49	44.70	20.21	104.95	
	26665	1912.5	-24.28	44.57	20.29	106.98	
	26065	1852.5	-27.01	44.27	17.26	53.21	V
	26365	1882.5	-27.66	44.87	17.21	52.60	
	26665	1912.5	-27.30	44.61	17.31	53.86	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26090	1855.0	-23.41	44.70	21.29	134.59	H
	26365	1882.5	-23.44	44.70	21.26	133.66	
	26640	1910.0	-23.24	44.57	21.33	135.93	
	26090	1855.0	-25.96	44.27	18.31	67.76	V
	26365	1882.5	-26.61	44.87	18.26	66.99	
	26640	1910.0	-26.26	44.61	18.35	68.44	
Channel Bandwidth: 10 MHz / 16QAM							
Z	26090	1855.0	-24.42	44.70	20.28	106.66	H
	26365	1882.5	-24.45	44.70	20.25	105.93	
	26640	1910.0	-24.25	44.57	20.32	107.72	
	26090	1855.0	-26.97	44.27	17.30	53.70	V
	26365	1882.5	-27.62	44.87	17.25	53.09	
	26640	1910.0	-27.27	44.61	17.34	54.24	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26115	1857.5	-23.37	44.70	21.33	135.83	H
	26365	1882.5	-23.41	44.70	21.29	134.59	
	26615	1907.5	-23.20	44.57	21.37	137.18	
	26115	1857.5	-25.92	44.27	18.35	68.39	V
	26365	1882.5	-26.57	44.87	18.30	67.61	
	26615	1907.5	-26.23	44.61	18.38	68.91	
Channel Bandwidth: 15 MHz / 16QAM							
Z	26115	1857.5	-24.38	44.70	20.32	107.65	H
	26365	1882.5	-24.42	44.70	20.28	106.66	
	26615	1907.5	-24.21	44.57	20.36	108.72	
	26115	1857.5	-26.93	44.27	17.34	54.20	V
	26365	1882.5	-27.58	44.87	17.29	53.58	
	26615	1907.5	-27.24	44.61	17.37	54.61	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 25							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	26140	1860.0	-23.33	44.70	21.37	137.09	H
	26365	1882.5	-23.37	44.70	21.33	135.83	
	26590	1905.0	-23.17	44.57	21.40	138.13	
	26140	1860.0	-25.88	44.27	18.39	69.02	V
	26365	1882.5	-26.53	44.87	18.34	68.23	
	26590	1905.0	-26.19	44.61	18.42	69.55	
Channel Bandwidth: 20 MHz / 16QAM							
Z	26140	1860.0	-24.34	44.70	20.36	108.64	H
	26365	1882.5	-24.37	44.70	20.33	107.89	
	26590	1905.0	-24.18	44.57	20.39	109.47	
	26140	1860.0	-26.89	44.27	17.38	54.70	V
	26365	1882.5	-27.54	44.87	17.33	54.08	
	26590	1905.0	-27.19	44.61	17.42	55.25	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

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

4.2.2 Test Procedure

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}.$

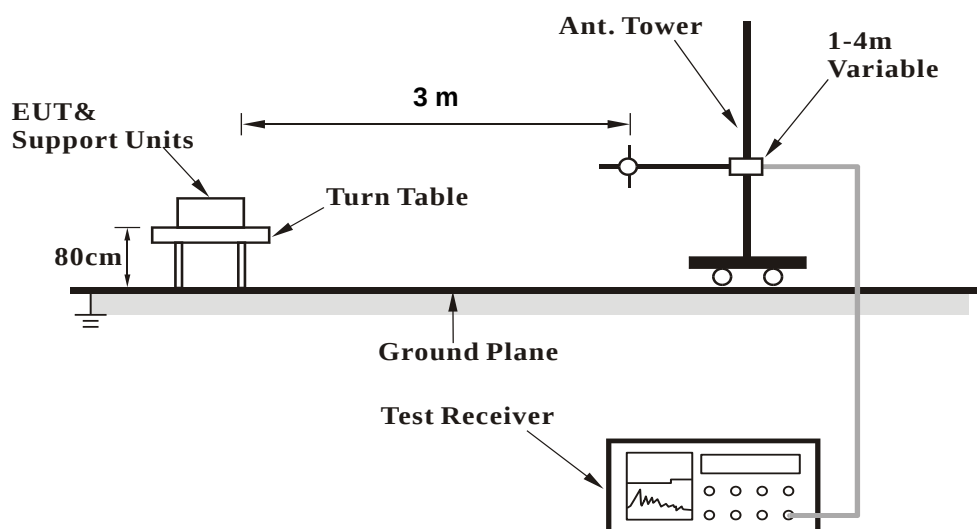
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

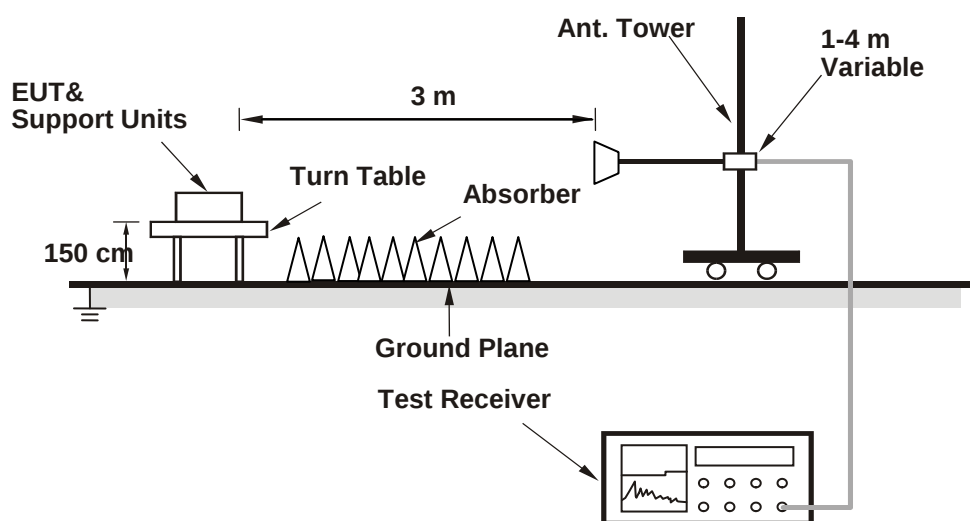
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

WCDMA:

Low Channel

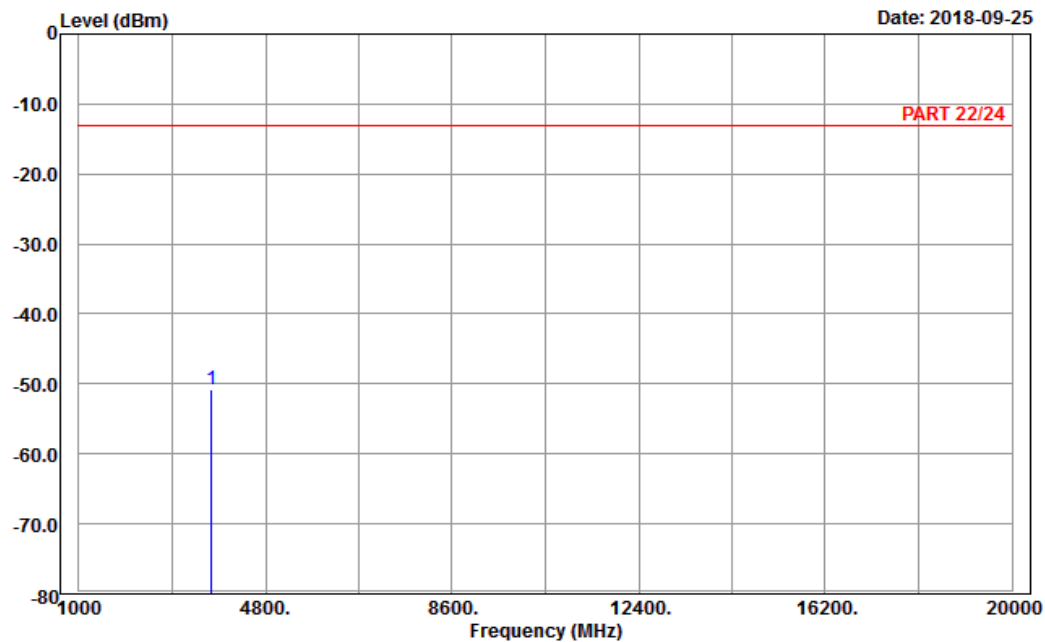


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1

Date: 2018-09-25



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Band II_Link_CH9262
Tested by: Karl Lee

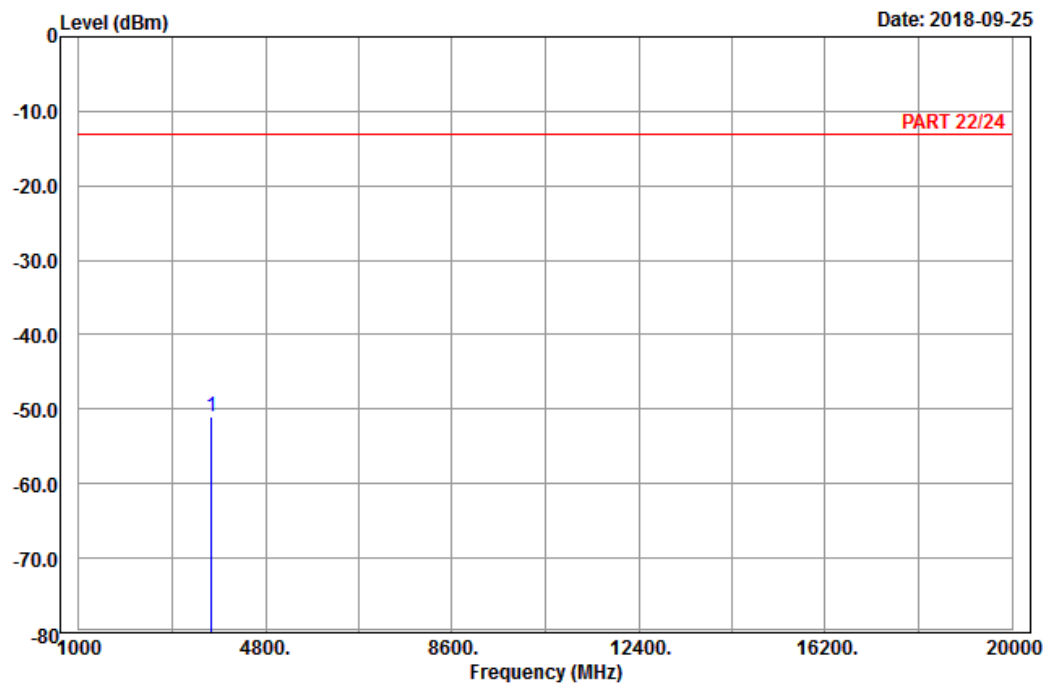
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-50.87	-66.75	-13.00	-37.87	15.88	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band II_Link_CH9262
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-50.91	-66.79	-13.00	-37.91	15.88	Peak

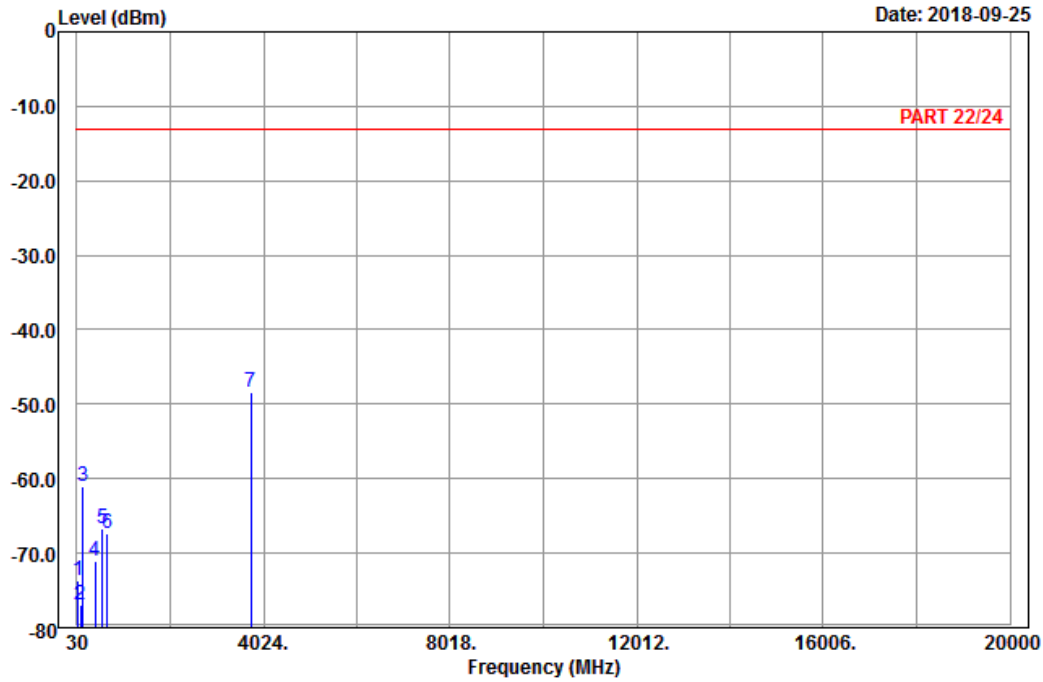
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band II_Link_CH9400
 Tested by: Karl Lee

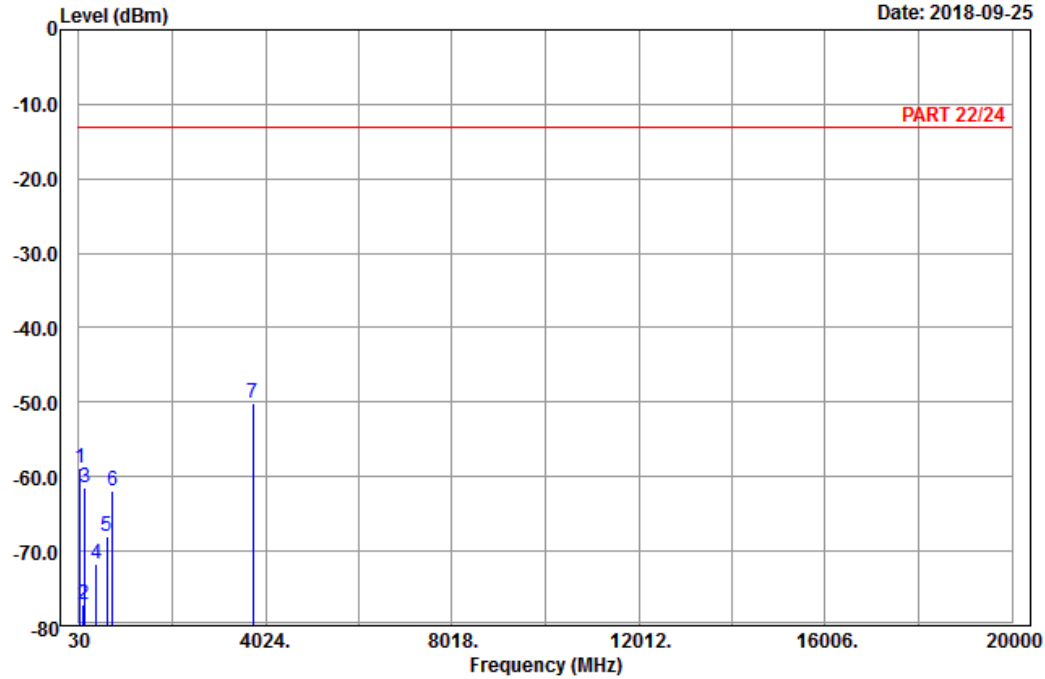
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	53.22	-73.61	-59.55	-13.00	-60.61	-14.06	Peak
2	113.70	-76.98	-68.29	-13.00	-63.98	-8.69	Peak
3	160.68	-60.97	-53.40	-13.00	-47.97	-7.57	Peak
4	414.80	-71.16	-68.08	-13.00	-58.16	-3.08	Peak
5	584.90	-66.61	-66.39	-13.00	-53.61	-0.22	Peak
6	688.50	-67.36	-67.04	-13.00	-54.36	-0.32	Peak
7 pp	3760.00	-48.37	-64.51	-13.00	-35.37	16.14	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band II_Link_CH9400
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	49.17	-58.86	-45.12	-13.00	-45.86	-13.74	Peak
2	129.09	-77.06	-69.35	-13.00	-64.06	-7.71	Peak
3	158.79	-61.51	-53.81	-13.00	-48.51	-7.70	Peak
4	402.20	-71.64	-68.84	-13.00	-58.64	-2.80	Peak
5	620.60	-68.05	-68.25	-13.00	-55.05	0.20	Peak
6	745.90	-61.88	-60.64	-13.00	-48.88	-1.24	Peak
7 pp	3760.00	-50.22	-66.36	-13.00	-37.22	16.14	Peak

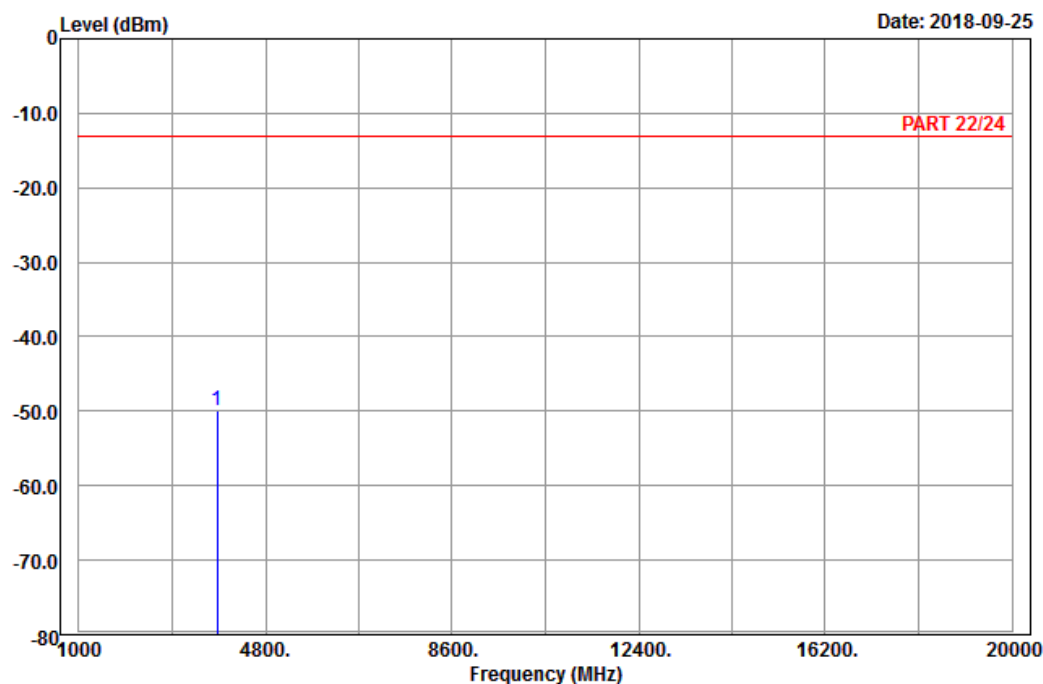
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Band II_Link_CH9538
Tested by: Karl Lee

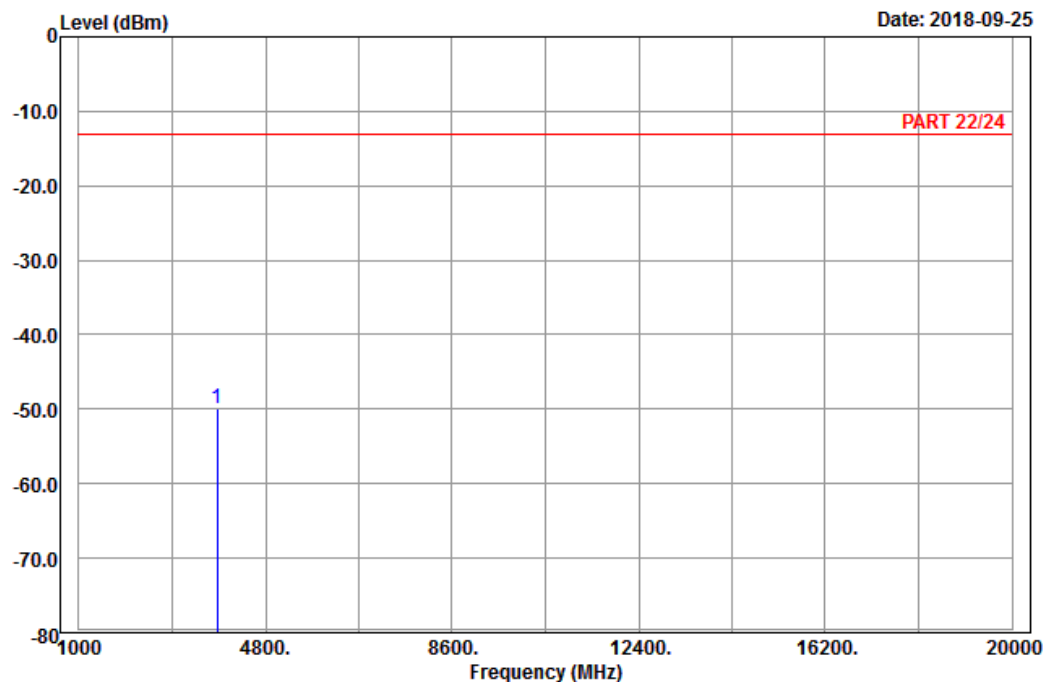
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.20	-49.93	-66.34	-13.00	-36.93	16.41	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band II_Link_CH9538
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.20	-49.91	-66.32	-13.00	-36.91	16.41	Peak

LTE Band 2
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel

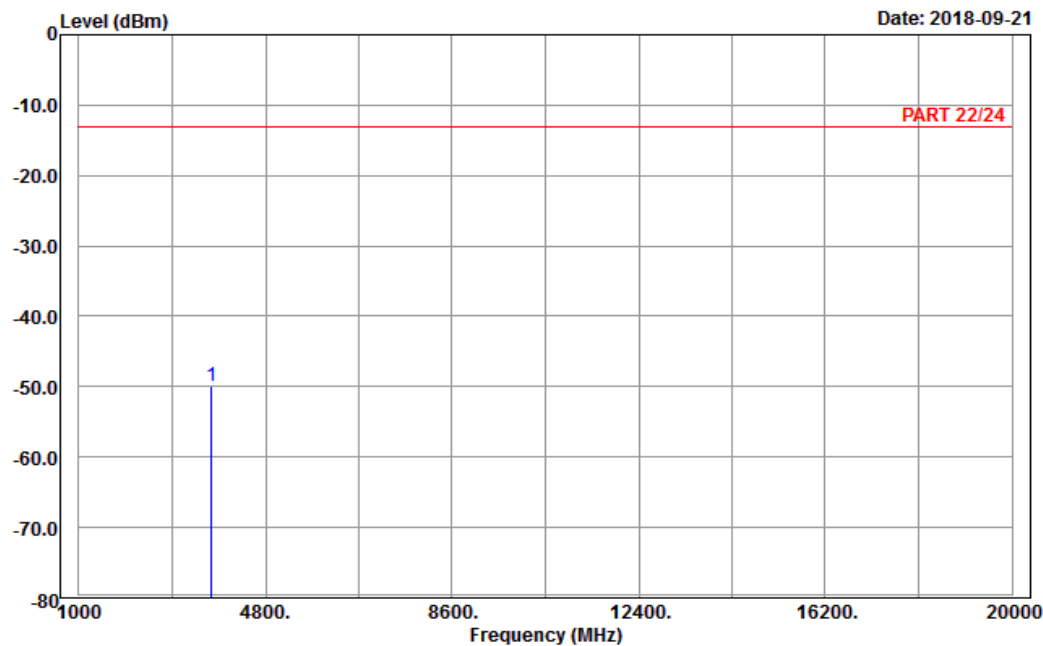


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A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18607
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-49.92	-65.80	-13.00	-36.92	15.88	Peak

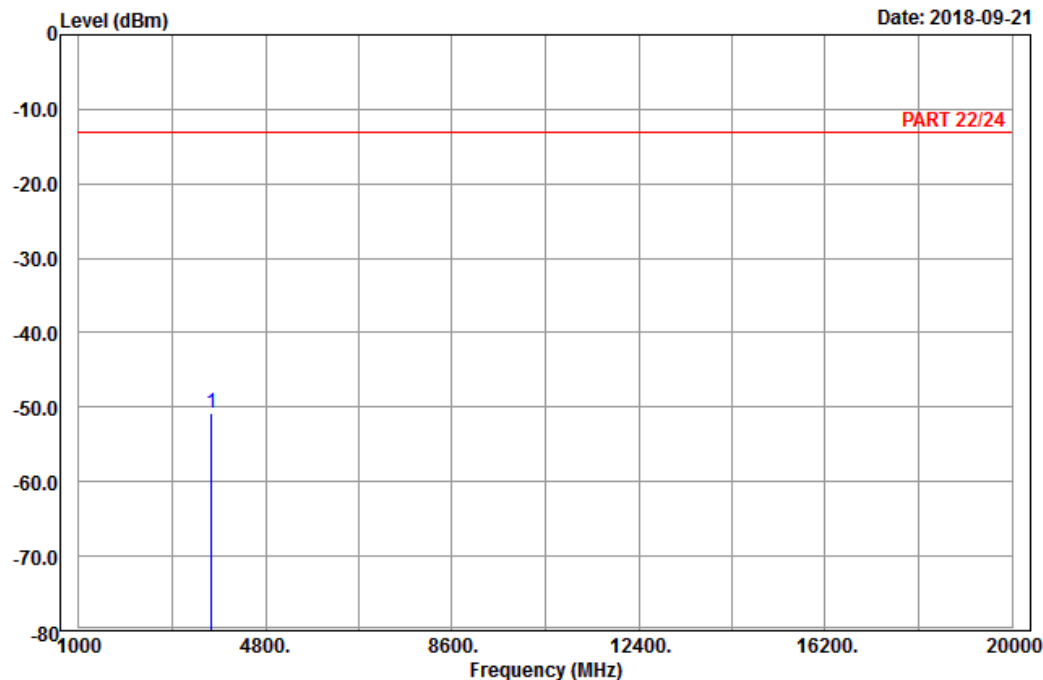


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18607
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-50.69	-66.57	-13.00	-37.69	15.88	Peak

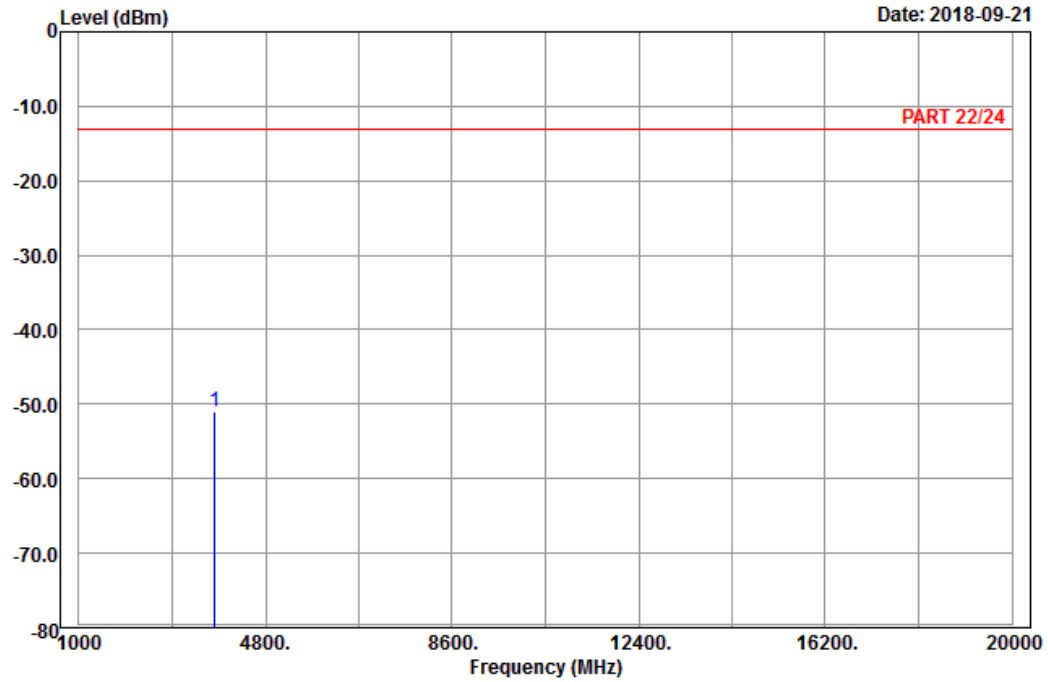
Middle Channel



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 2_Link_CH18900
 Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.97	-67.11	-13.00	-37.97	16.14	Peak

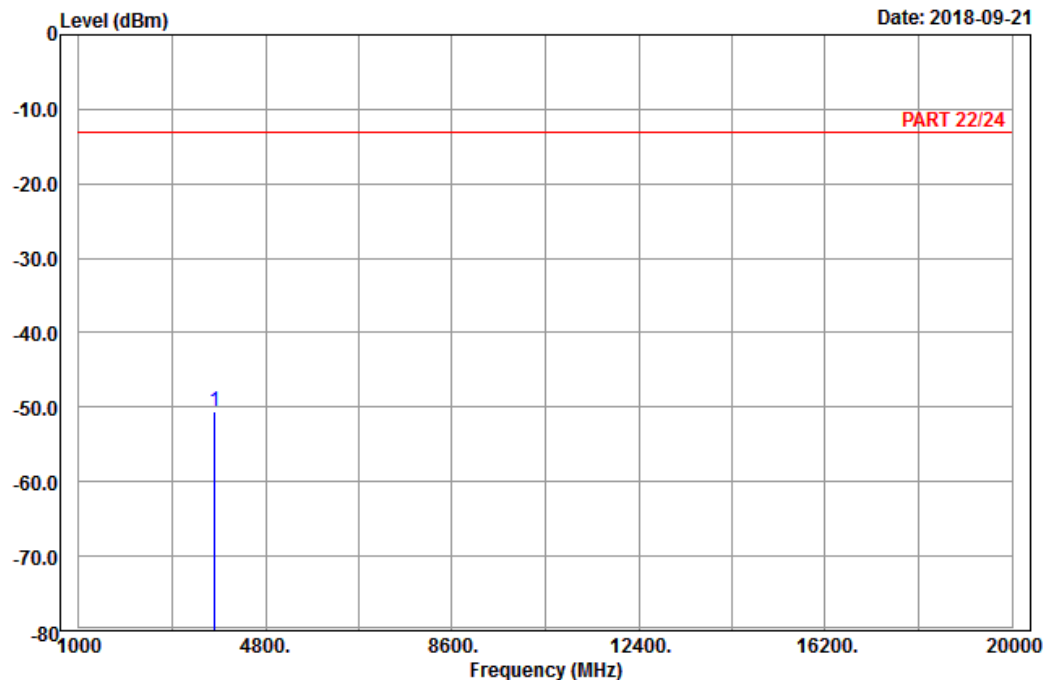


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.57	-66.71	-13.00	-37.57	16.14	Peak

High Channel

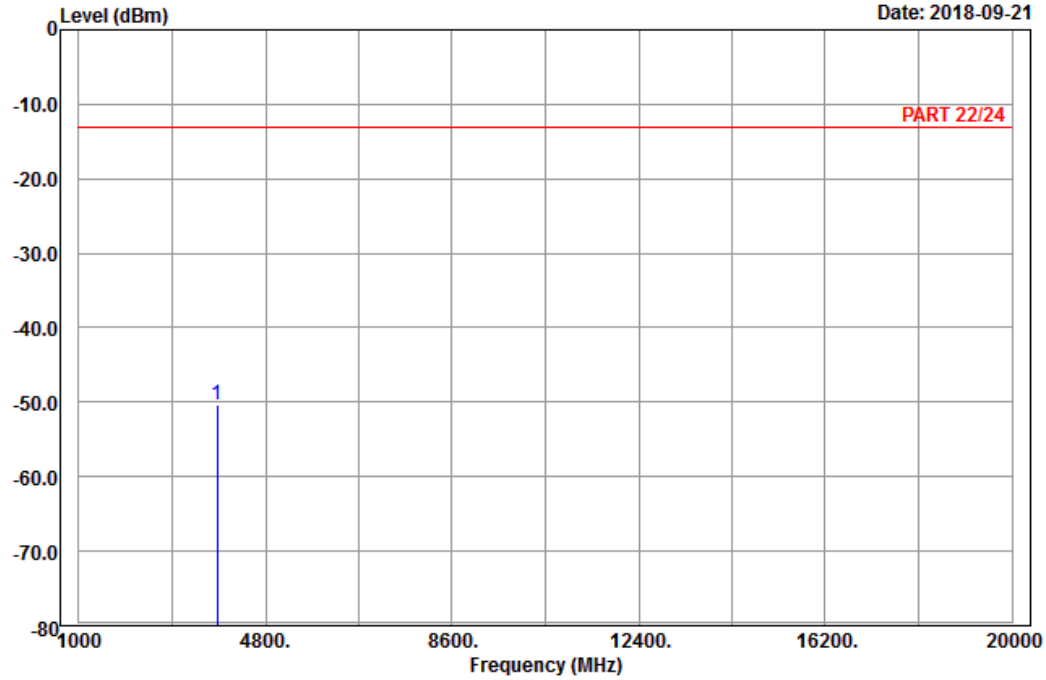


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH19193
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3818.60	-50.39	-66.89	-13.00	-37.39	16.50	Peak

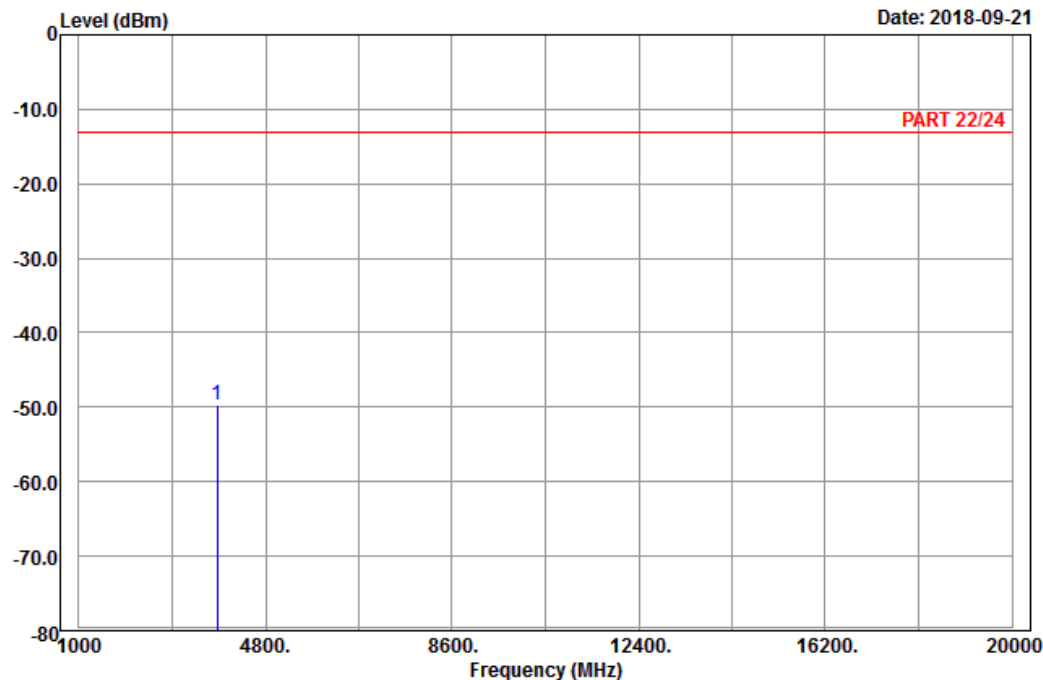


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH19193
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3818.60	-49.80	-66.30	-25.00	-24.80	16.50	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

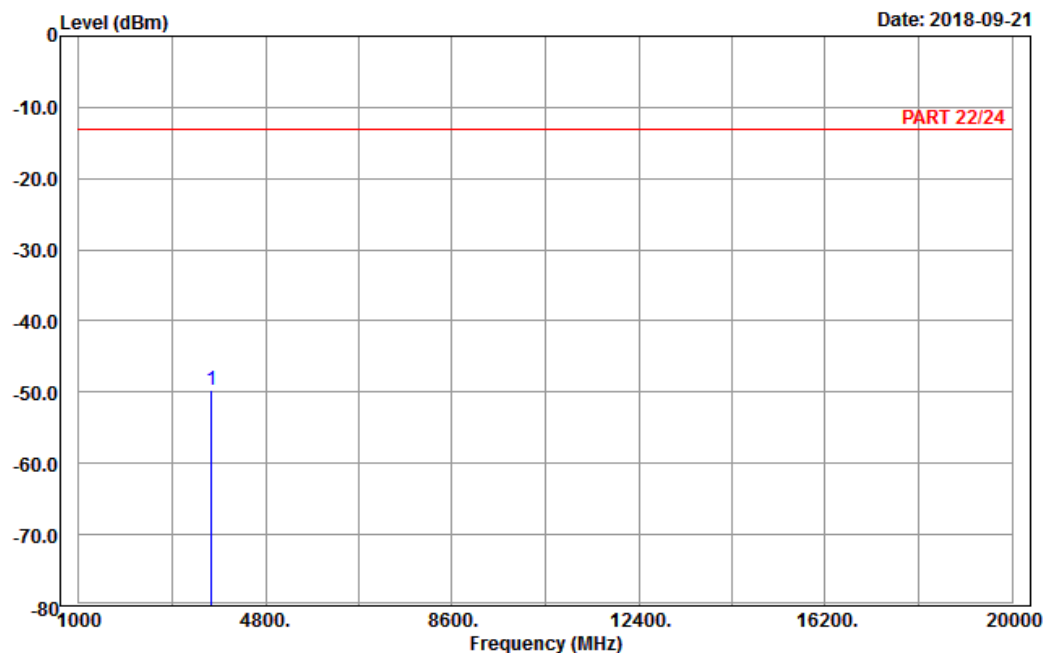


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18625
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-49.68	-65.56	-13.00	-36.68	15.88	Peak

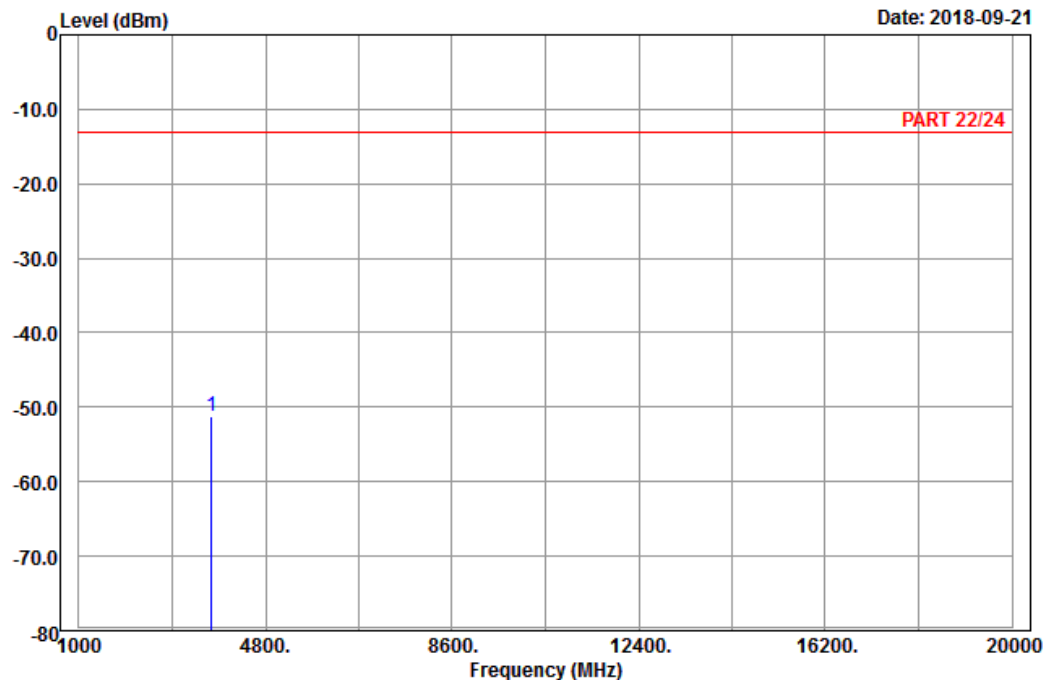


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A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18625
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-51.20	-67.08	-13.00	-38.20	15.88	Peak

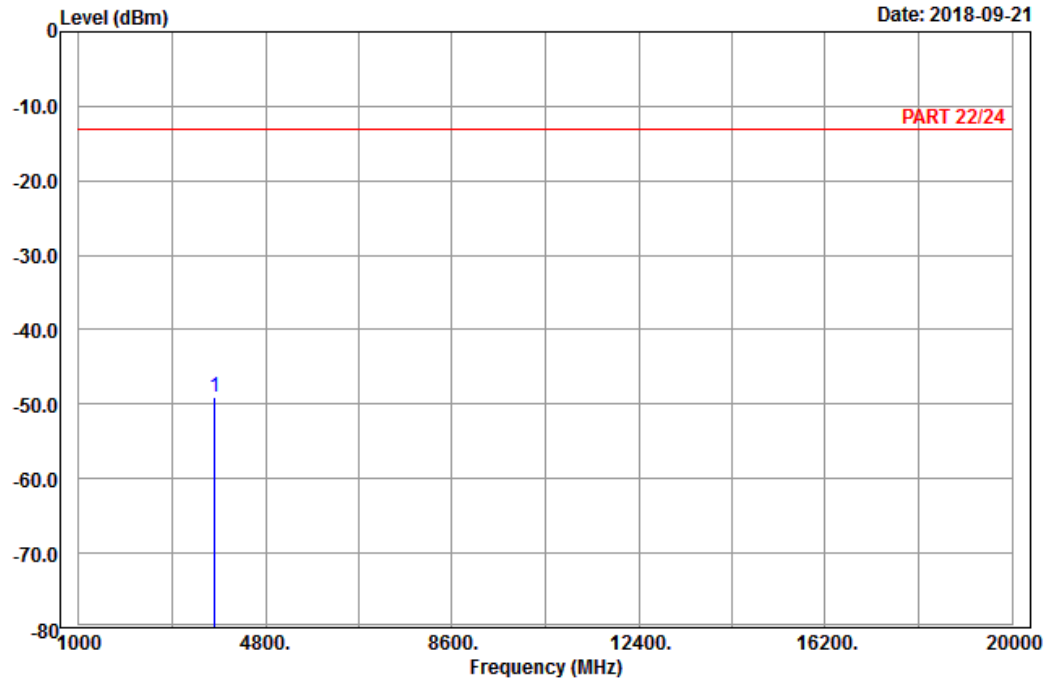
Middle Channel



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 2_Link_CH18900
 Tested by: Harry Hsueh

			Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1 pp 3760.00	-49.09	-65.23	-13.00	-36.09	16.14	Peak	

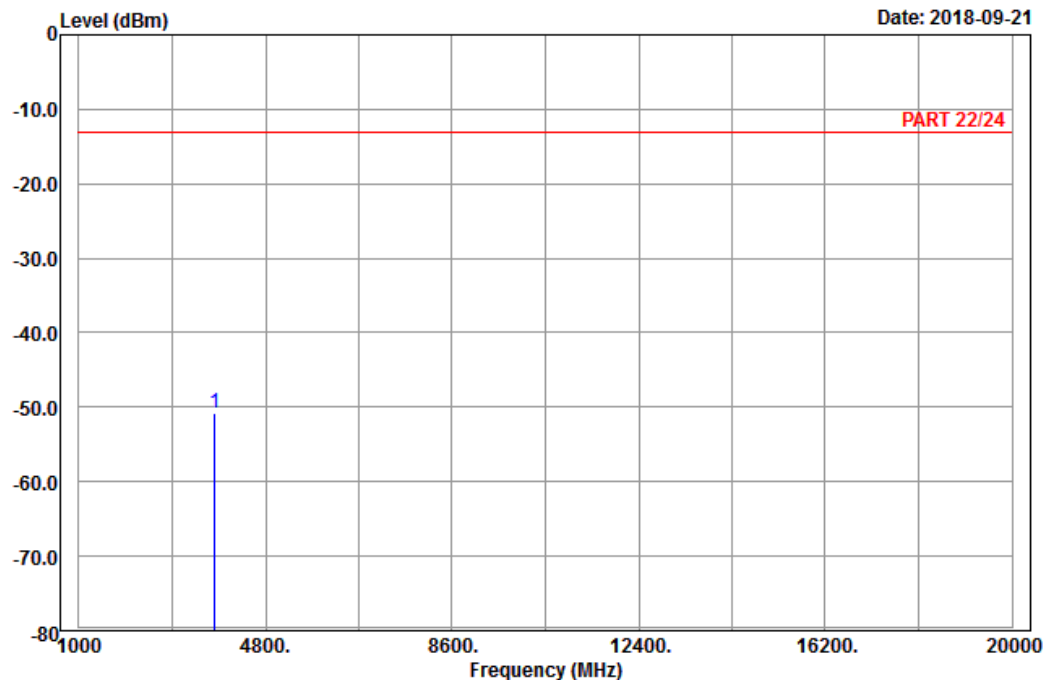


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Harry Hsueh

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.73	-66.87	-13.00	-37.73	16.14	Peak

High Channel

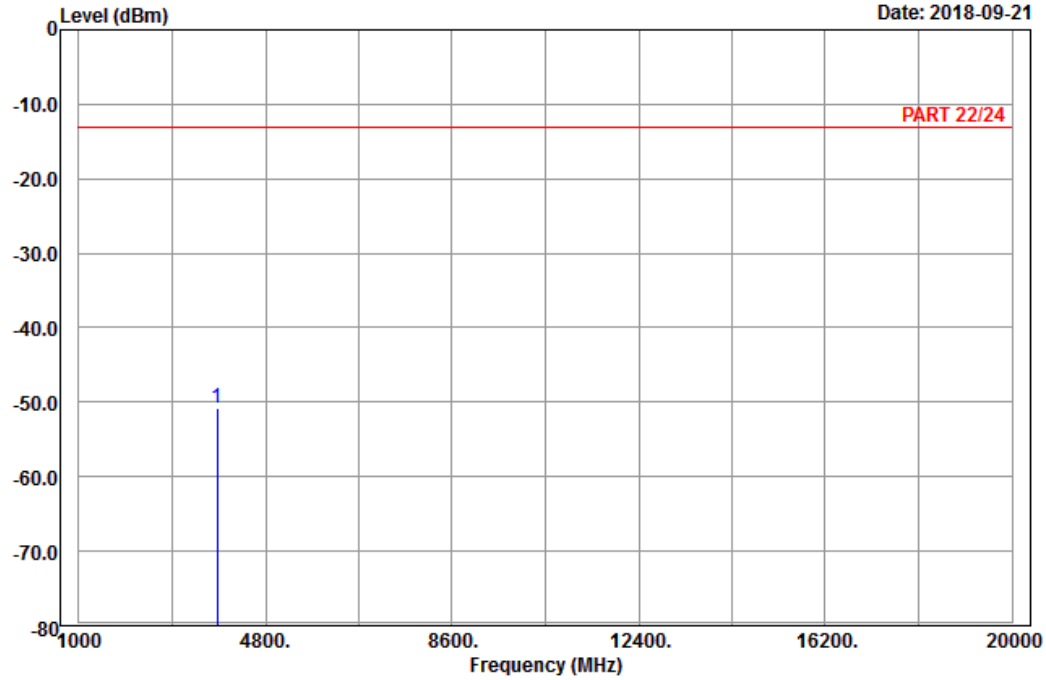


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH19175
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.00	-50.80	-67.21	-13.00	-37.80	16.41	Peak

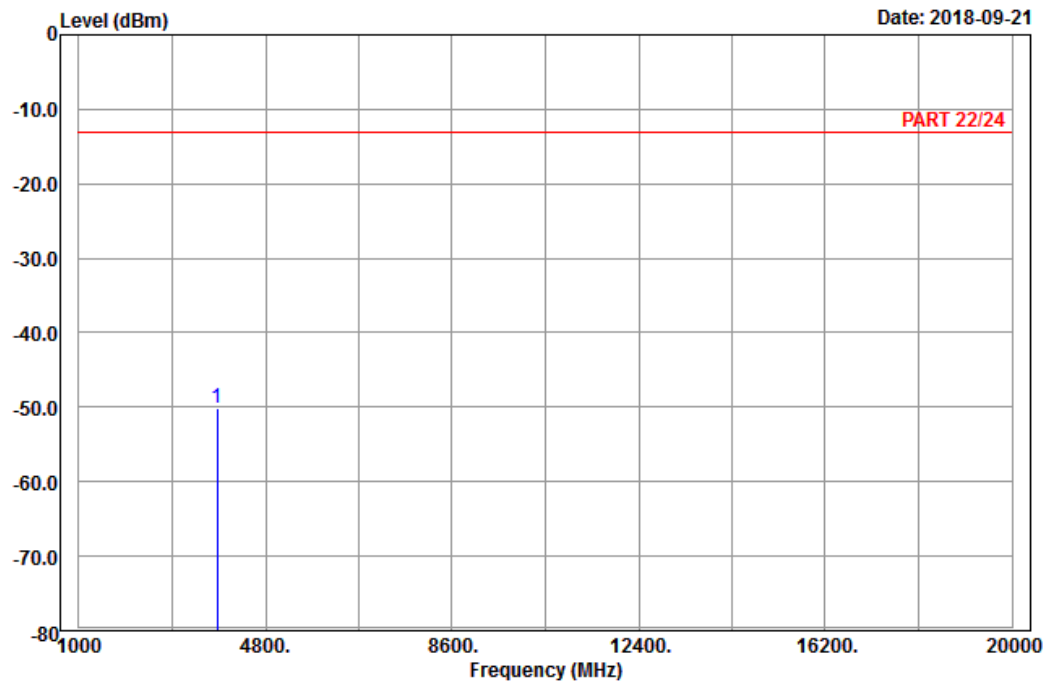


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 2_Link_CH19175
 Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.00	-50.24	-66.65	-13.00	-37.24	16.41	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

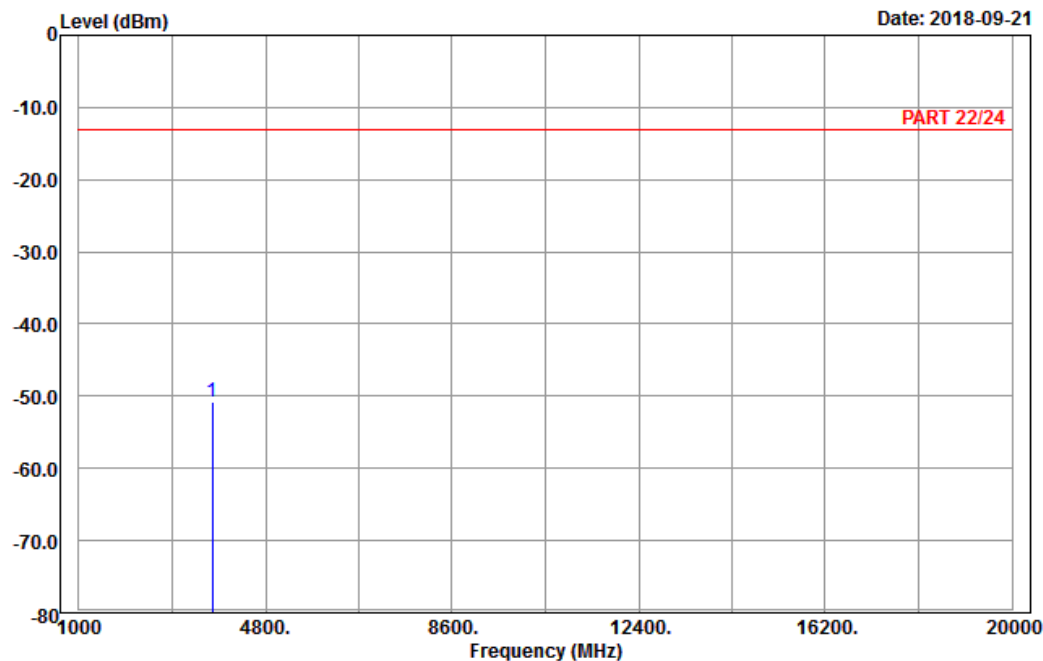


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH18700
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-50.87	-66.84	-13.00	-37.87	15.97	Peak

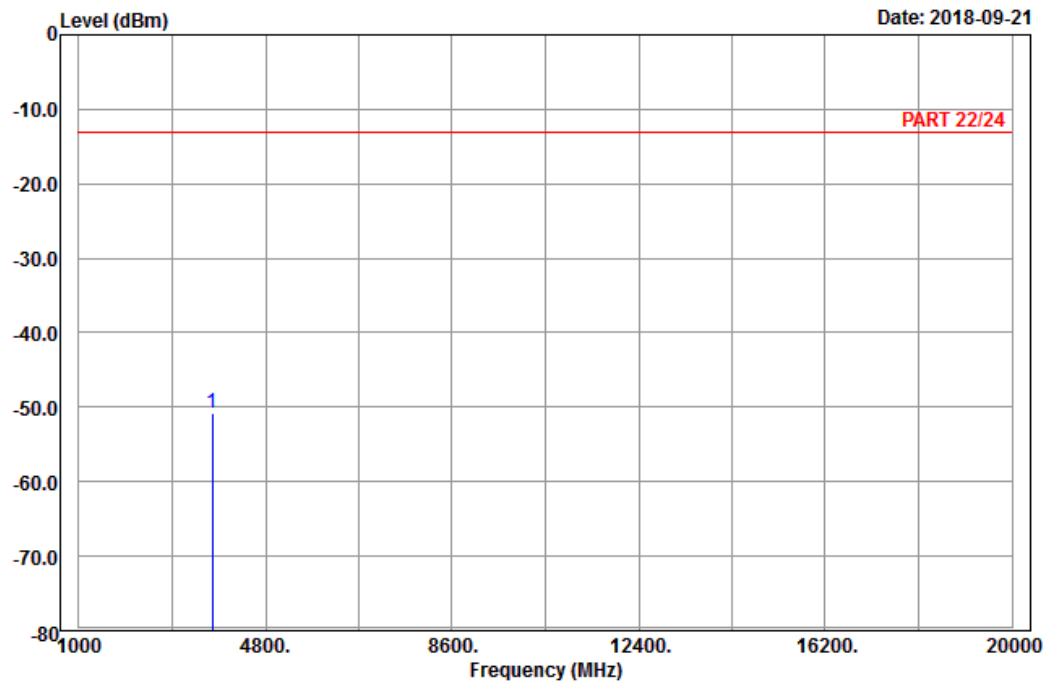


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18700
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-50.89	-66.86	-13.00	-37.89	15.97	Peak

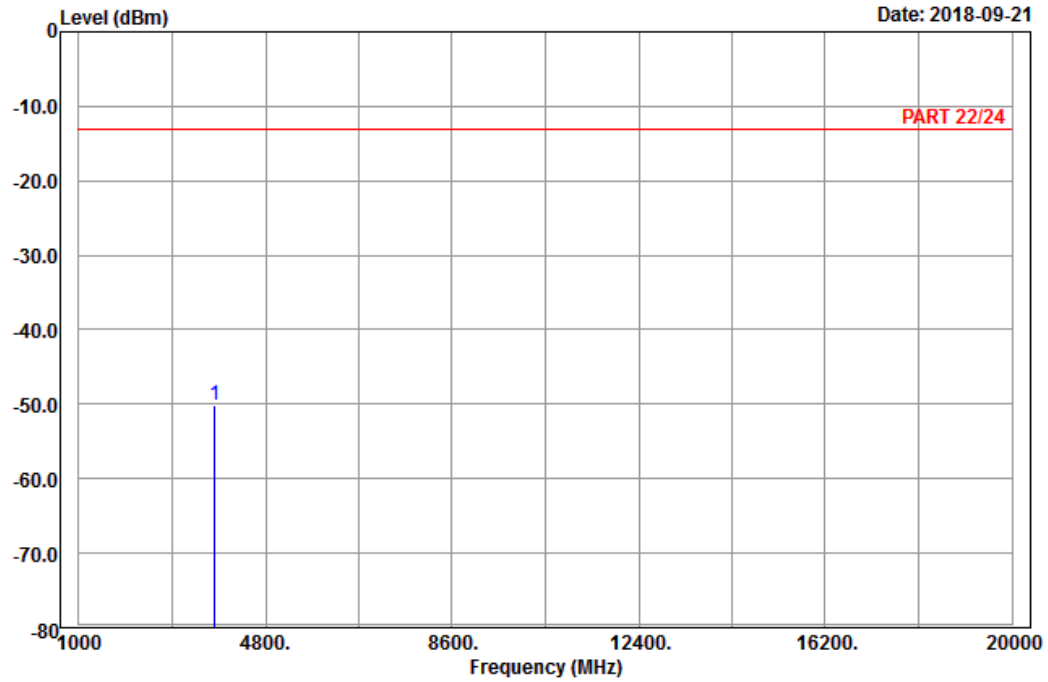
Middle Channel



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 2_Link_CH18900
 Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.08	-66.22	-13.00	-37.08	16.14	Peak

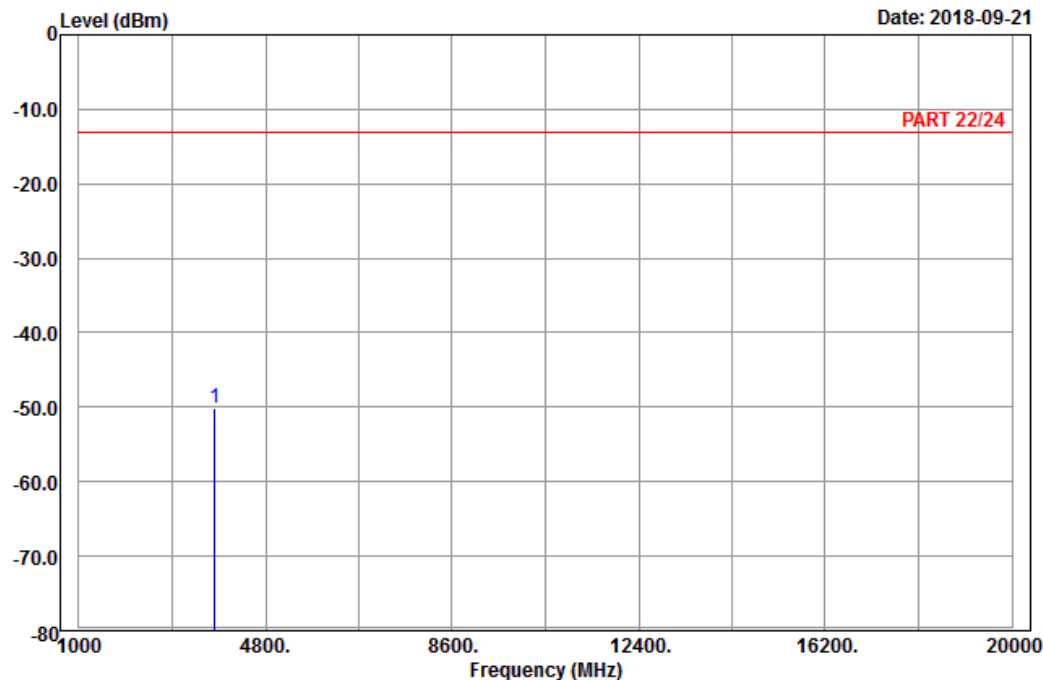


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH18900
Tested by: Harry Hsueh

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.24	-66.38	-13.00	-37.24	16.14	Peak

High Channel

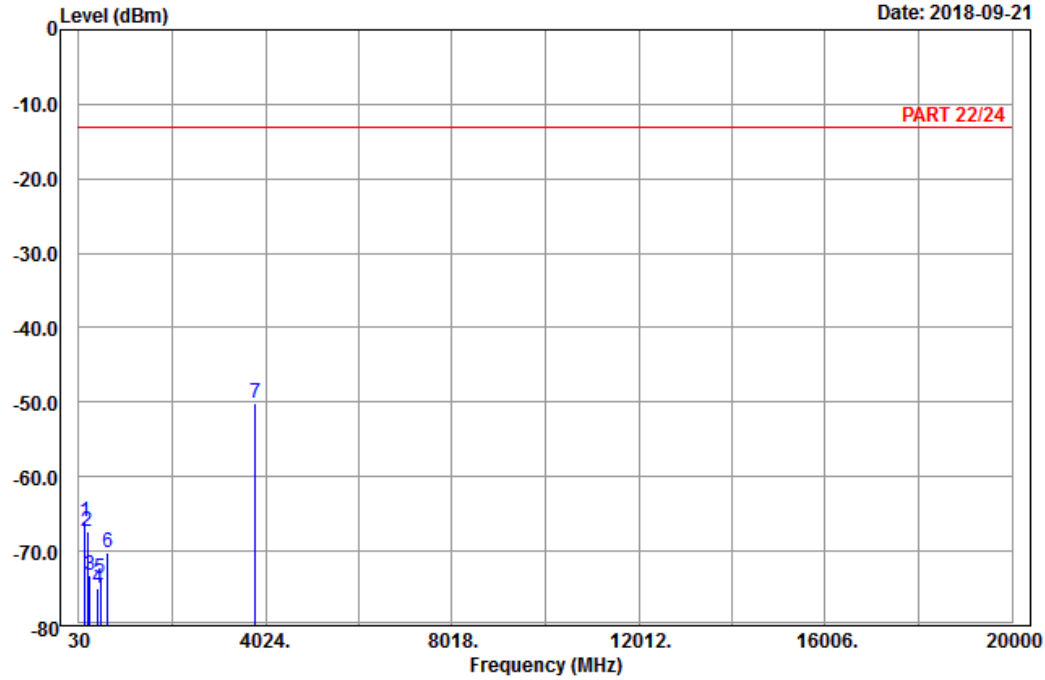


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 2_Link_CH19100
Tested by: Harry Hsueh

		Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	167.97	-66.09	-59.19	-13.00	-53.09	-6.90	Peak
2	218.73	-67.32	-61.40	-13.00	-54.32	-5.92	Peak
3	258.69	-73.19	-67.60	-13.00	-60.19	-5.59	Peak
4	443.50	-74.89	-71.19	-13.00	-61.89	-3.70	Peak
5	486.90	-73.75	-68.85	-13.00	-60.75	-4.90	Peak
6	638.10	-70.14	-70.14	-13.00	-57.14	0.00	Peak
7 pp	3800.00	-50.07	-66.48	-13.00	-37.07	16.41	Peak

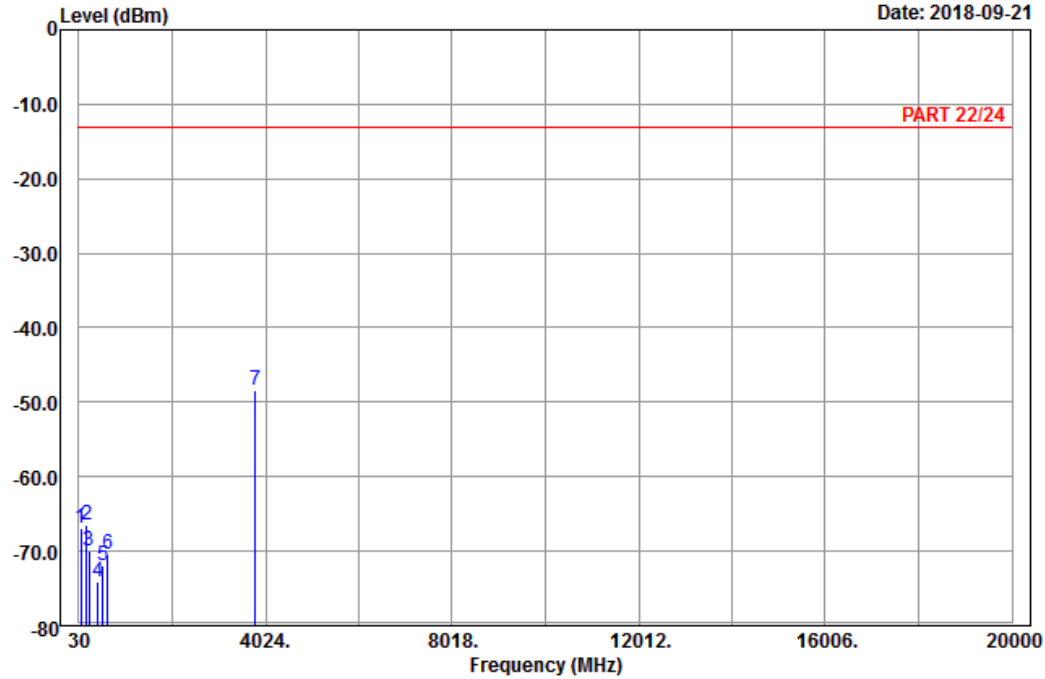


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 2_Link_CH19100
Tested by: Harry Hsueh

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	65.37	-67.01	-53.63	-13.00	-54.01	-13.38	Peak
2	197.13	-66.47	-60.42	-13.00	-53.47	-6.05	Peak
3	240.60	-70.06	-64.42	-13.00	-57.06	-5.64	Peak
4	435.80	-74.06	-70.53	-13.00	-61.06	-3.53	Peak
5	545.70	-71.94	-69.99	-13.00	-58.94	-1.95	Peak
6	654.20	-70.51	-70.35	-13.00	-57.51	-0.16	Peak
7 pp	3800.00	-48.33	-64.74	-13.00	-35.33	16.41	Peak

LTE Band 25
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel

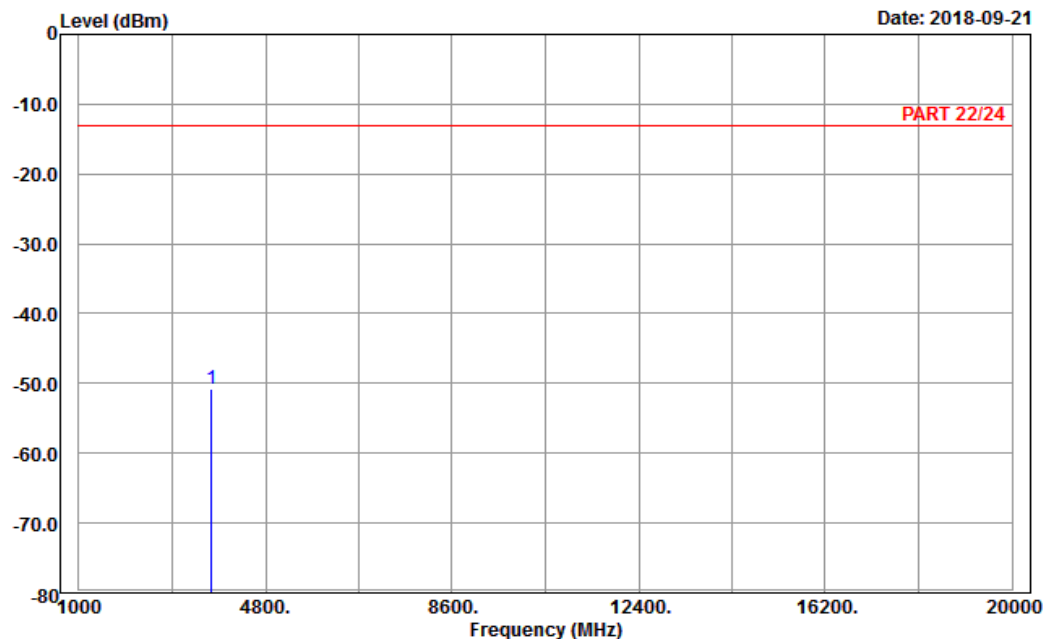


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 25_Link_CH26047
Tested by: Karl Lee

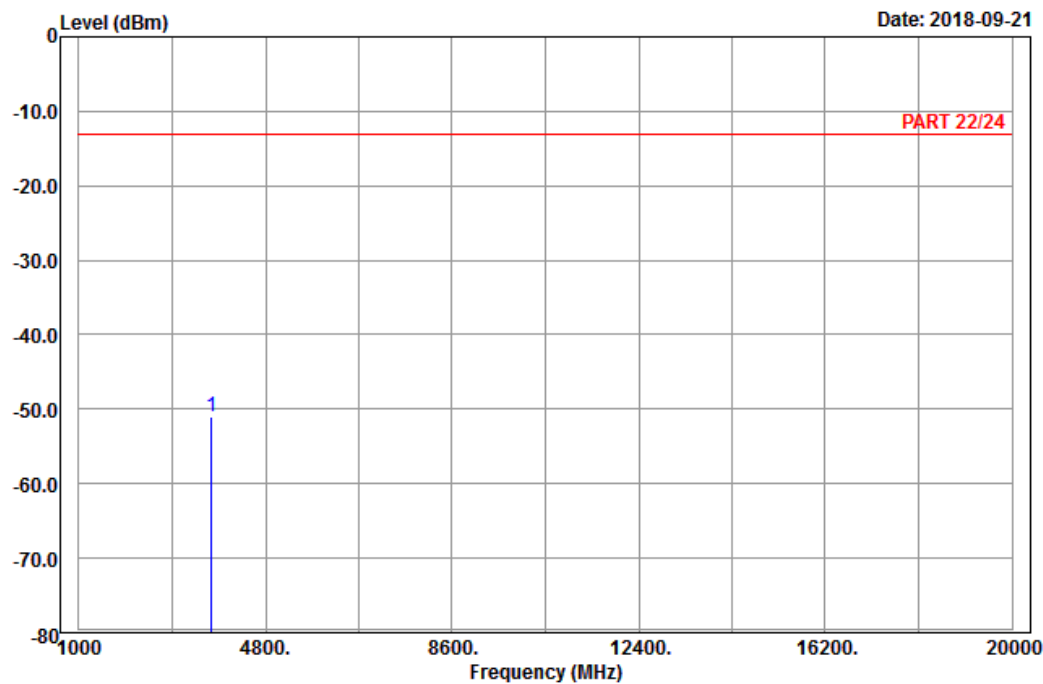
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-50.70	-66.58	-13.00	-37.70	15.88	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26047
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3701.40	-51.02	-66.90	-13.00	-38.02	15.88	Peak

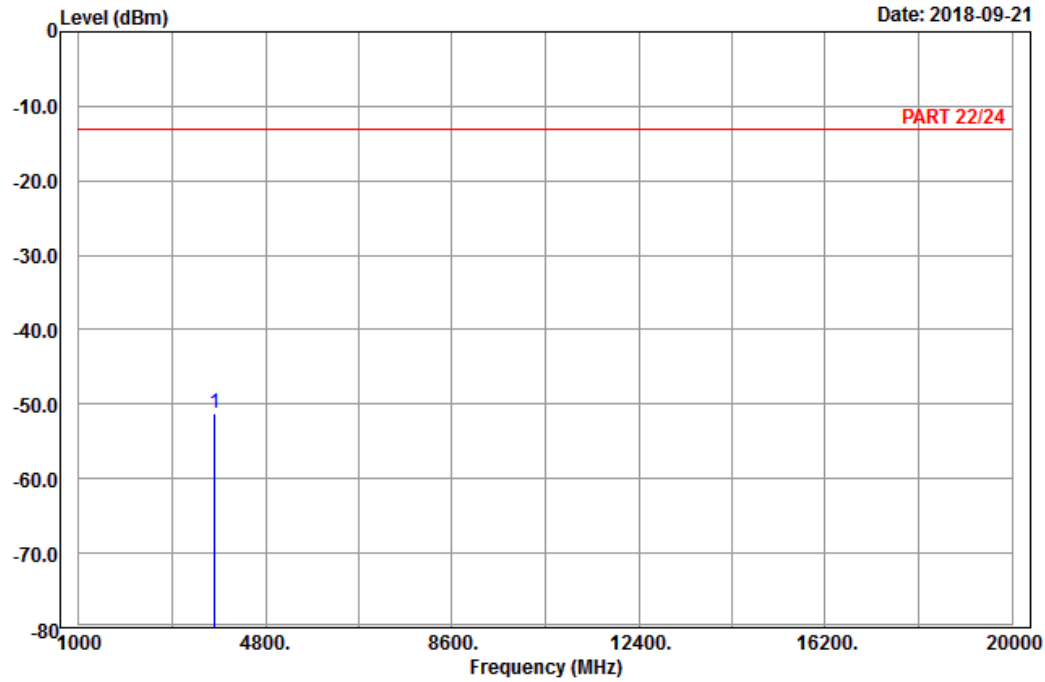
Middle Channel



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 25_Link_CH26365
 Tested by: Karl Lee

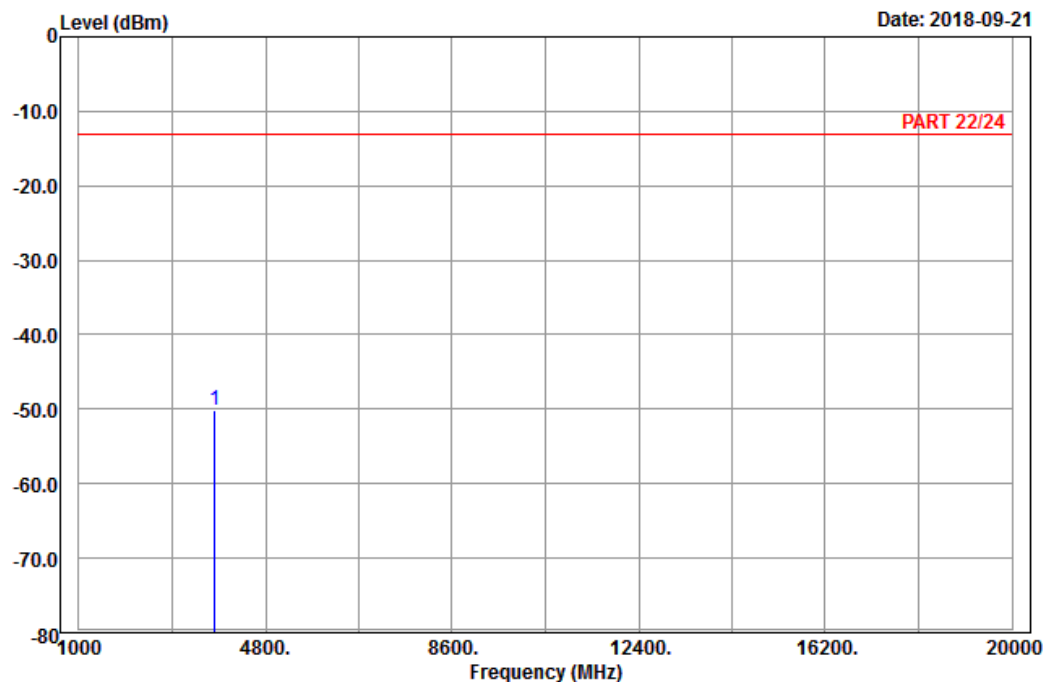
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-51.32	-67.55	-13.00	-38.32	16.23	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26365
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-50.18	-66.41	-13.00	-37.18	16.23	Peak

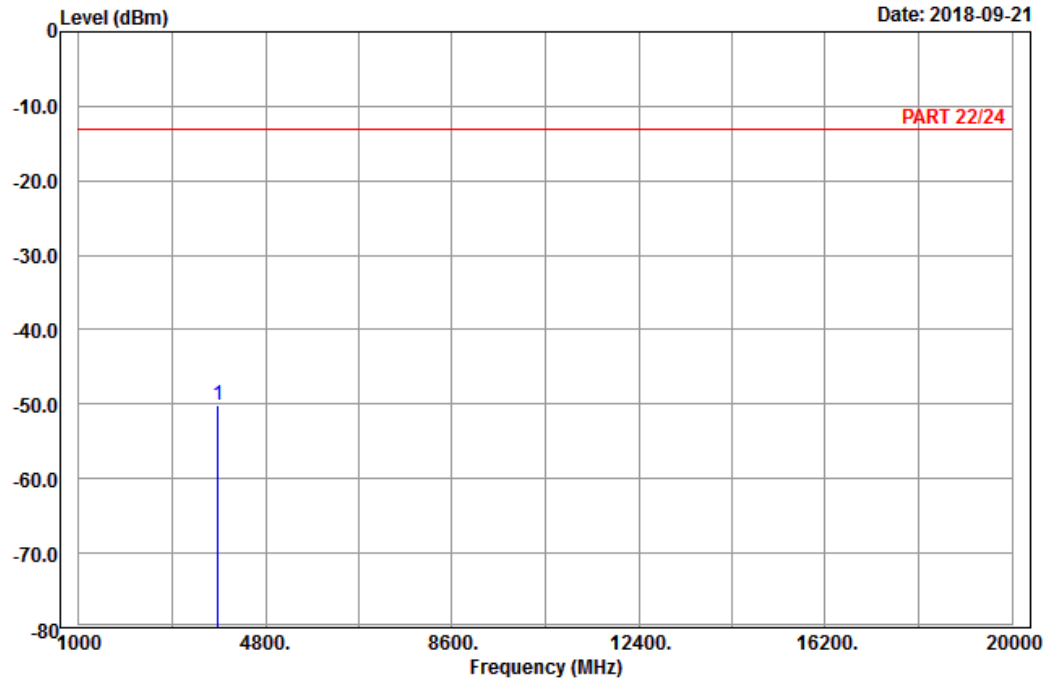
High Channel



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 25_Link_CH26683
 Tested by: Karl Lee

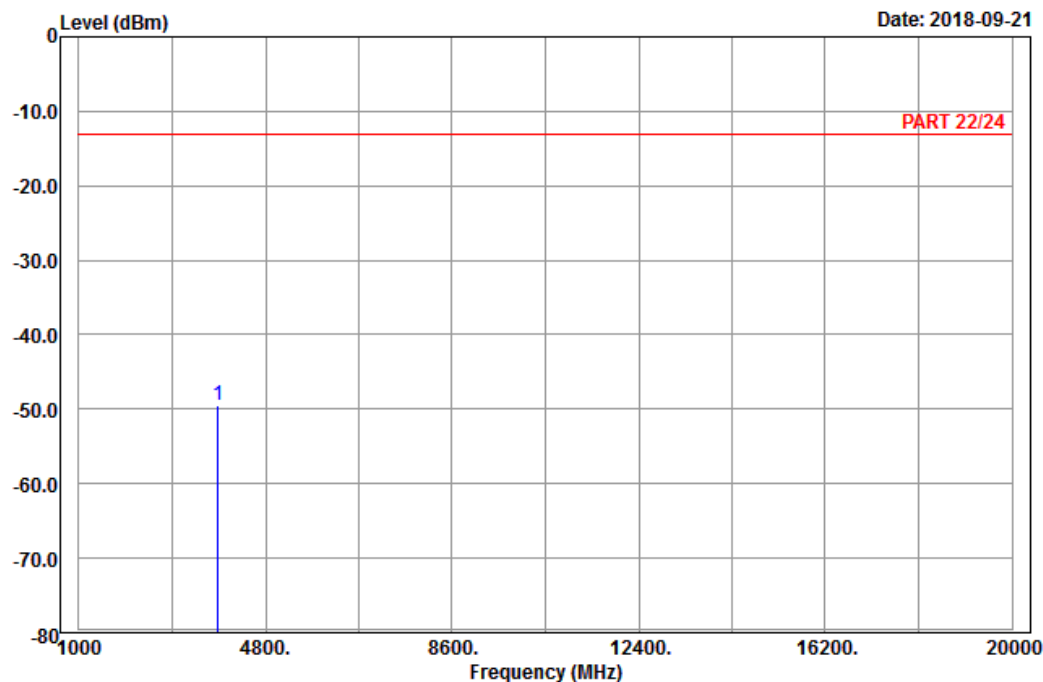
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3828.60	-50.07	-66.57	-13.00	-37.07	16.50	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26683
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3828.60	-49.58	-66.08	-13.00	-36.58	16.50	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

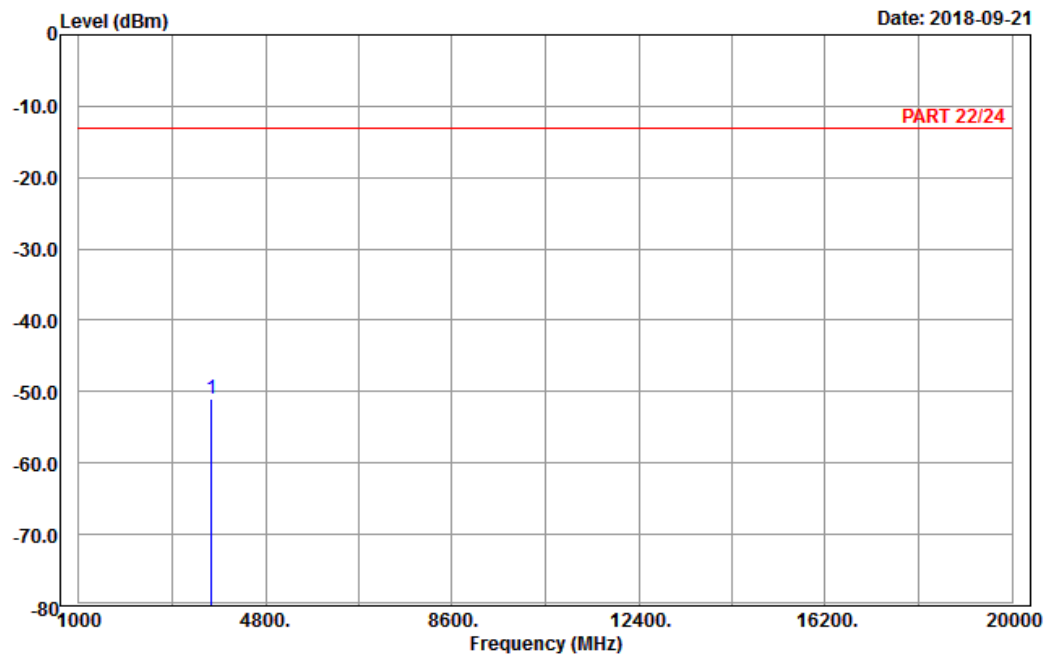


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 25_Link_CH26065
Tested by: Karl Lee

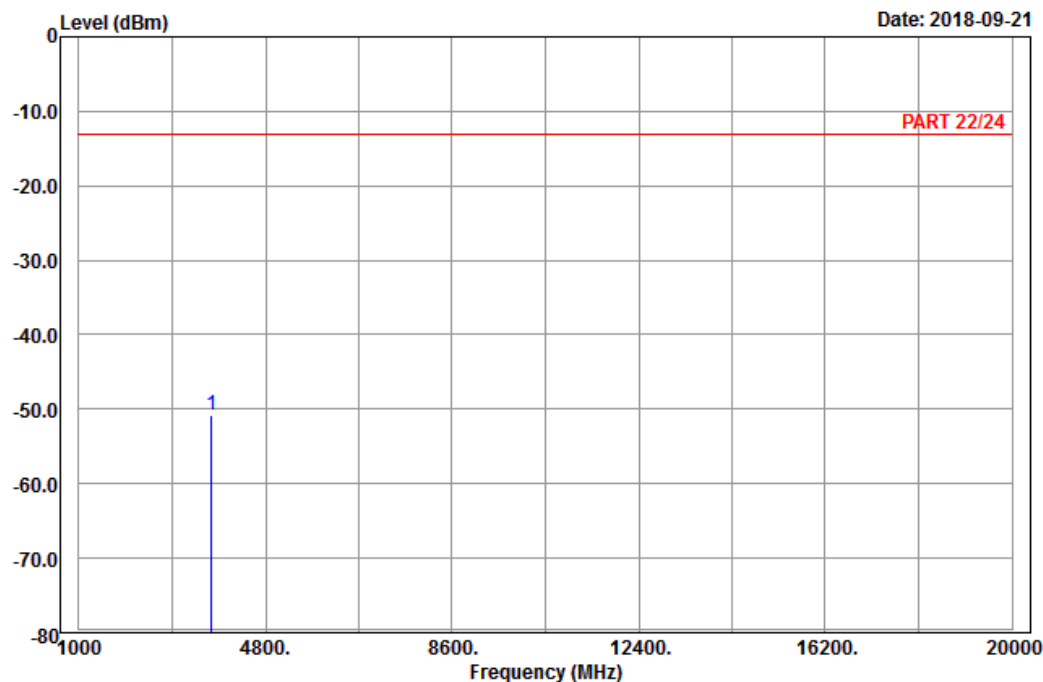
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-51.09	-66.97	-13.00	-38.09	15.88	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26065
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-50.84	-66.72	-13.00	-37.84	15.88	Peak

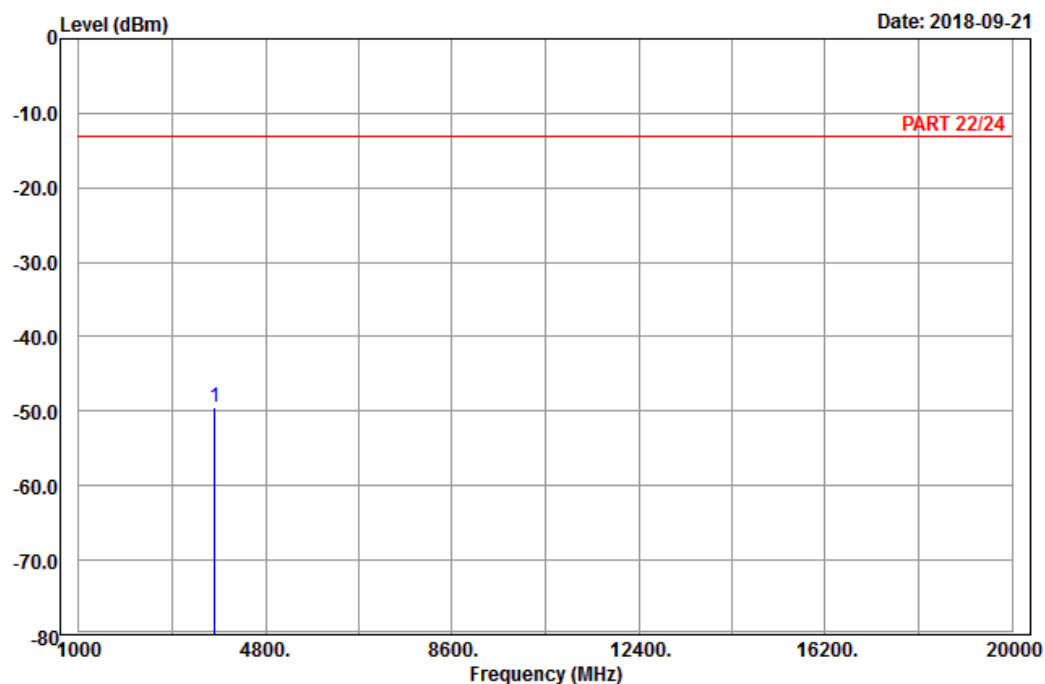
Middle Channel



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 25_Link_CH26365
Tested by: Karl Lee

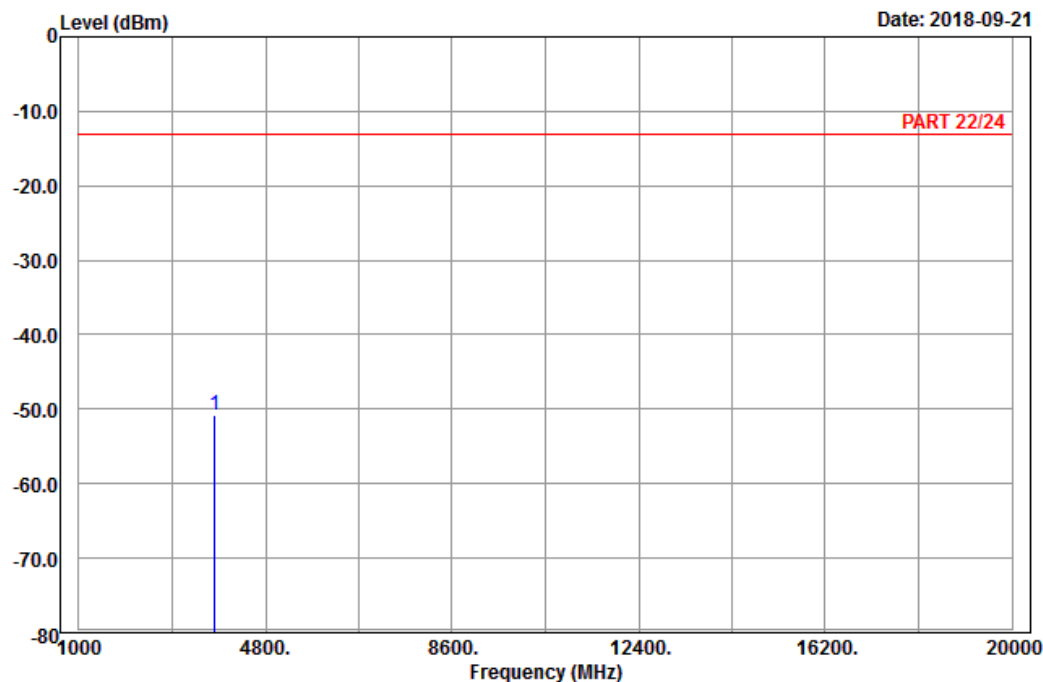
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-49.50	-65.73	-13.00	-36.50	16.23	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26365
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-50.81	-67.04	-13.00	-37.81	16.23	Peak

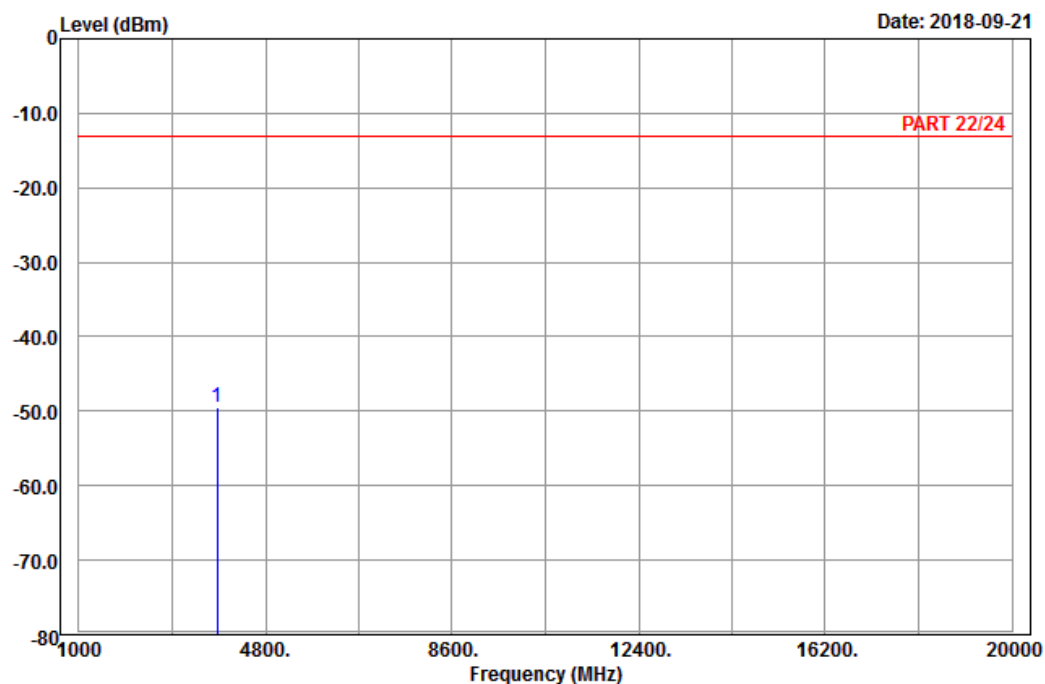
High Channel



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 25_Link_CH26665
Tested by: Karl Lee

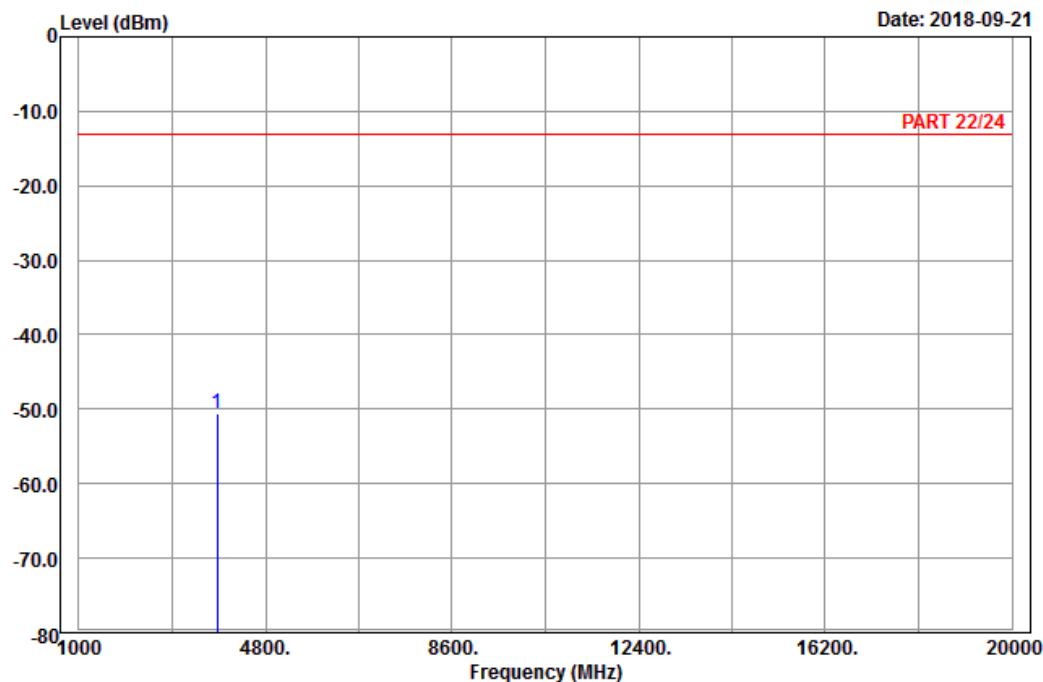
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3825.00	-49.38	-65.88	-13.00	-36.38	16.50	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26665
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3825.00	-50.68	-67.18	-13.00	-37.68	16.50	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

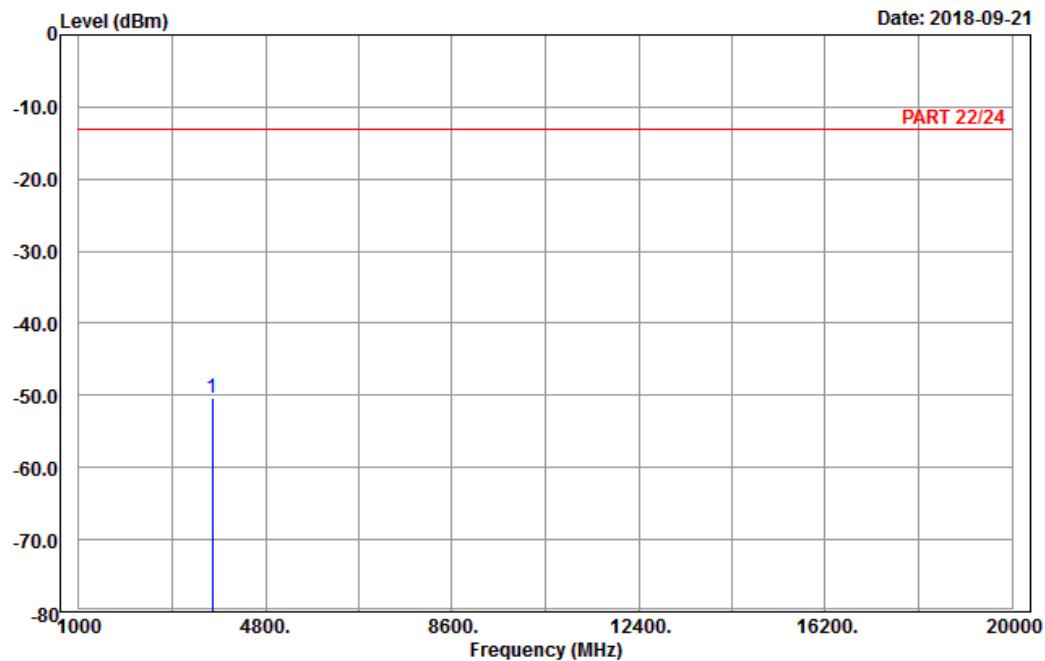


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A D T

Data: 9

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 25_Link_CH26140
Tested by: Karl Lee

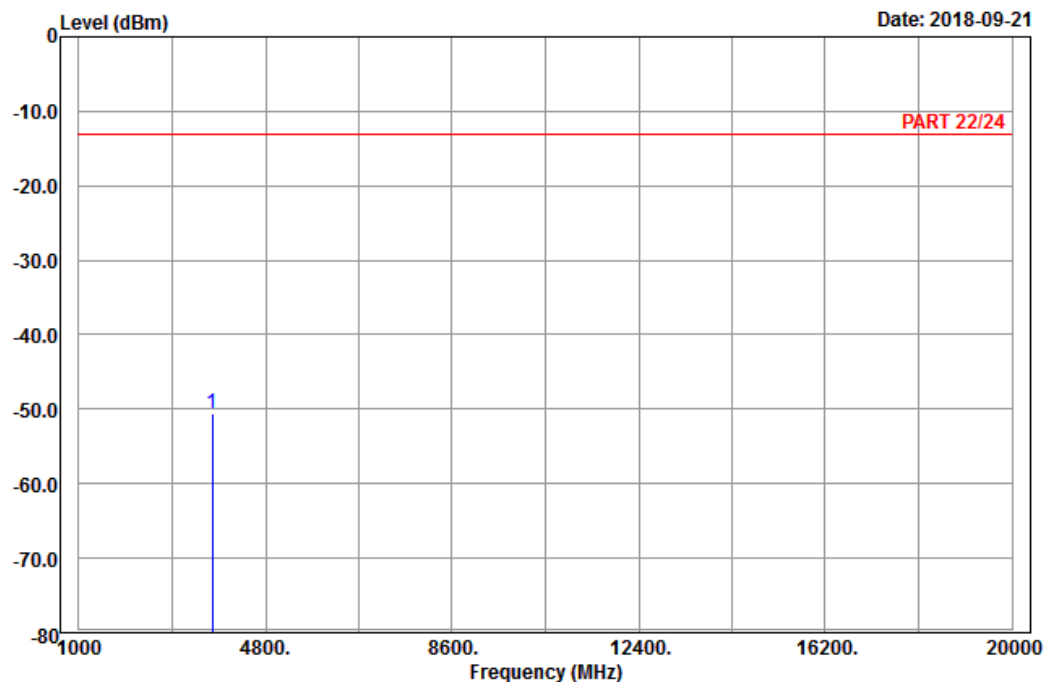
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-50.45	-66.42	-13.00	-37.45	15.97	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26140
 Tested by: Karl Lee

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-50.67	-66.64	-13.00	-37.67	15.97	Peak

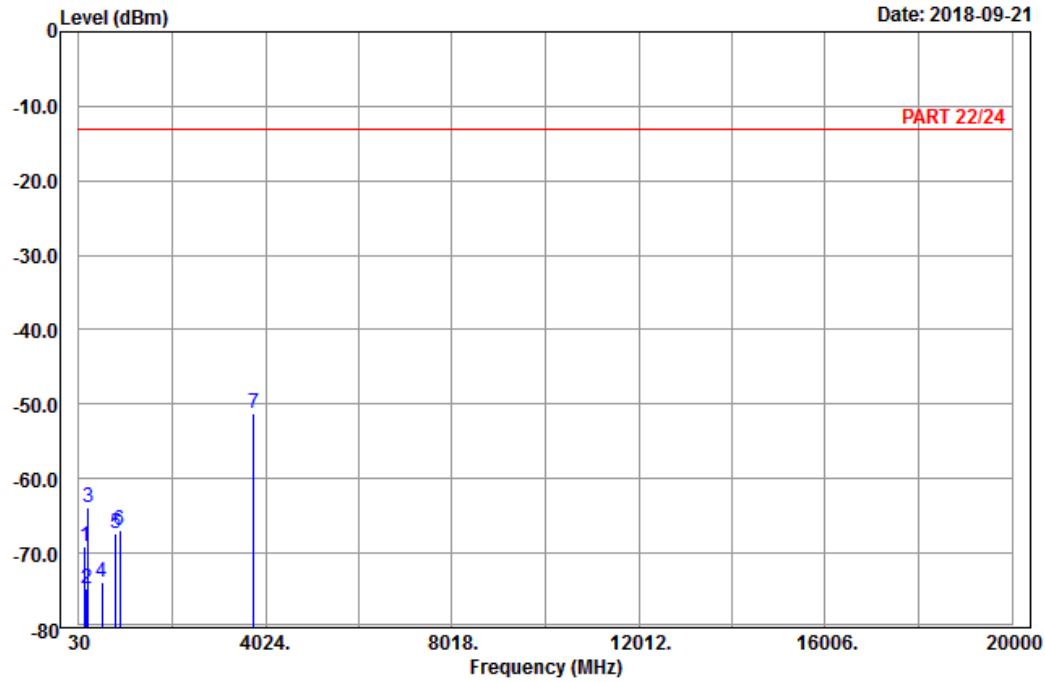
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 25_Link_CH26365
 Tested by: Charles Hsiao

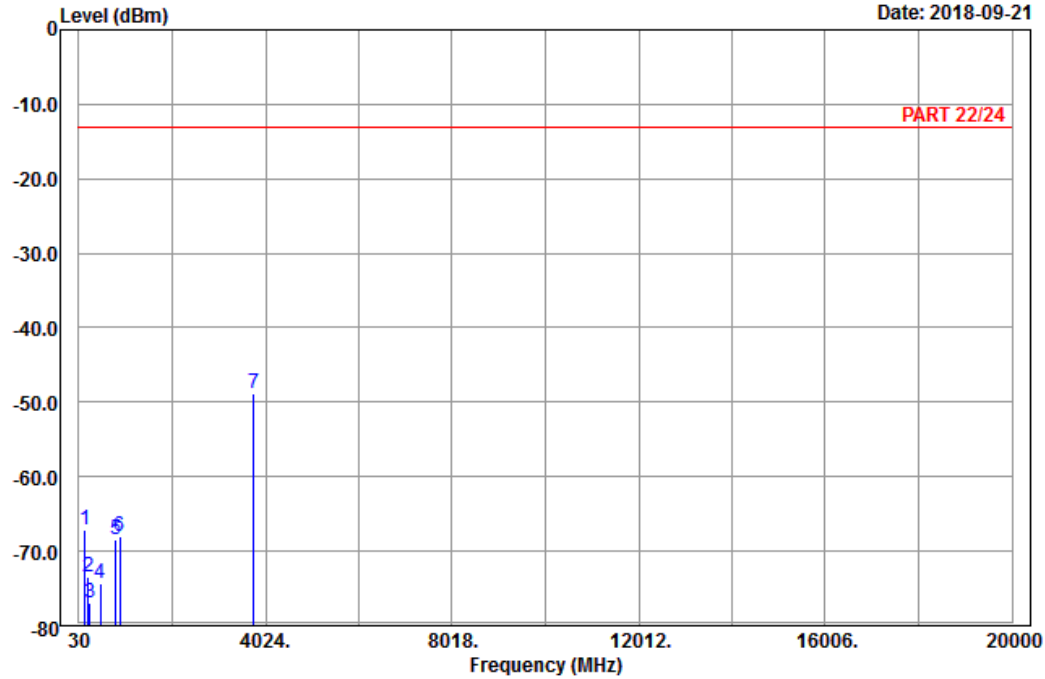
		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	156.09	-69.03	-61.25	-13.00	-56.03	-7.78	Peak
2	201.72	-74.85	-68.69	-13.00	-61.85	-6.16	Peak
3	235.74	-63.97	-58.27	-13.00	-50.97	-5.70	Peak
4	516.30	-73.94	-69.79	-13.00	-60.94	-4.15	Peak
5	818.70	-67.46	-69.26	-13.00	-54.46	1.80	Peak
6	915.30	-66.83	-70.41	-13.00	-53.83	3.58	Peak
7 pp	3765.00	-51.26	-67.49	-13.00	-38.26	16.23	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 25_Link_CH26365
Tested by: Charles Hsiao

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	156.90	-67.09	-59.34	-13.00	-54.09	-7.75	Peak
2	229.80	-73.50	-67.72	-13.00	-60.50	-5.78	Peak
3	265.17	-76.85	-71.21	-13.00	-63.85	-5.64	Peak
4	490.40	-74.43	-69.42	-13.00	-61.43	-5.01	Peak
5	815.20	-68.39	-70.24	-13.00	-55.39	1.85	Peak
6	903.40	-67.93	-70.95	-13.00	-54.93	3.02	Peak
7 pp	3765.00	-48.78	-65.01	-13.00	-35.78	16.23	Peak

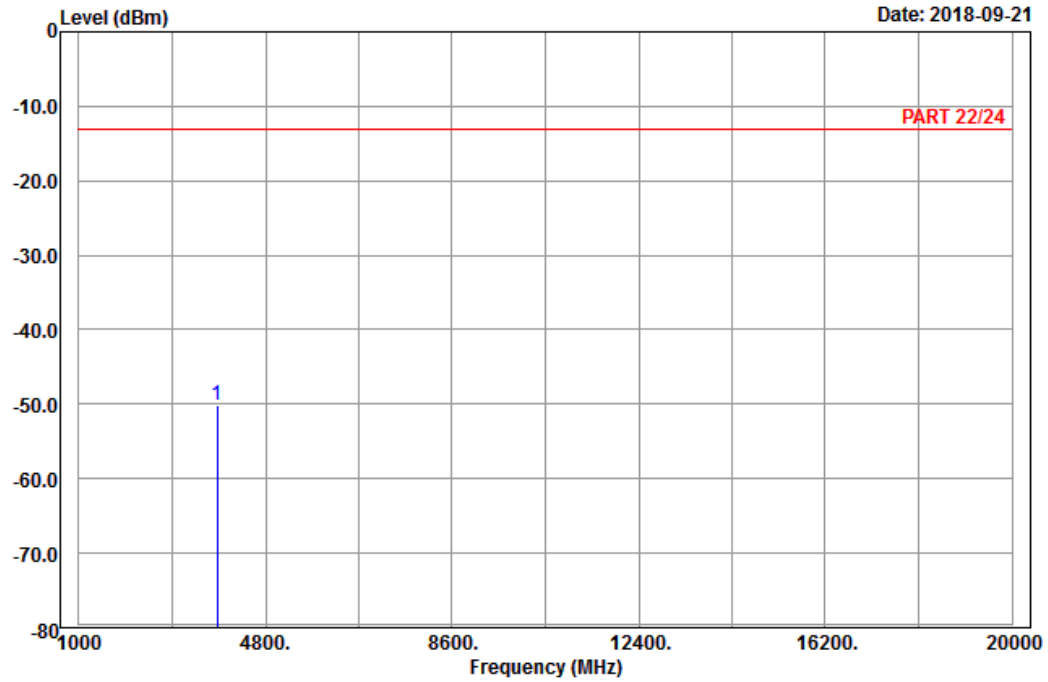
High Channel



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 25_Link_CH26590
 Tested by: Charles Hsiao

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3810.00	-50.17	-66.58	-13.00	-37.17	16.41	Peak

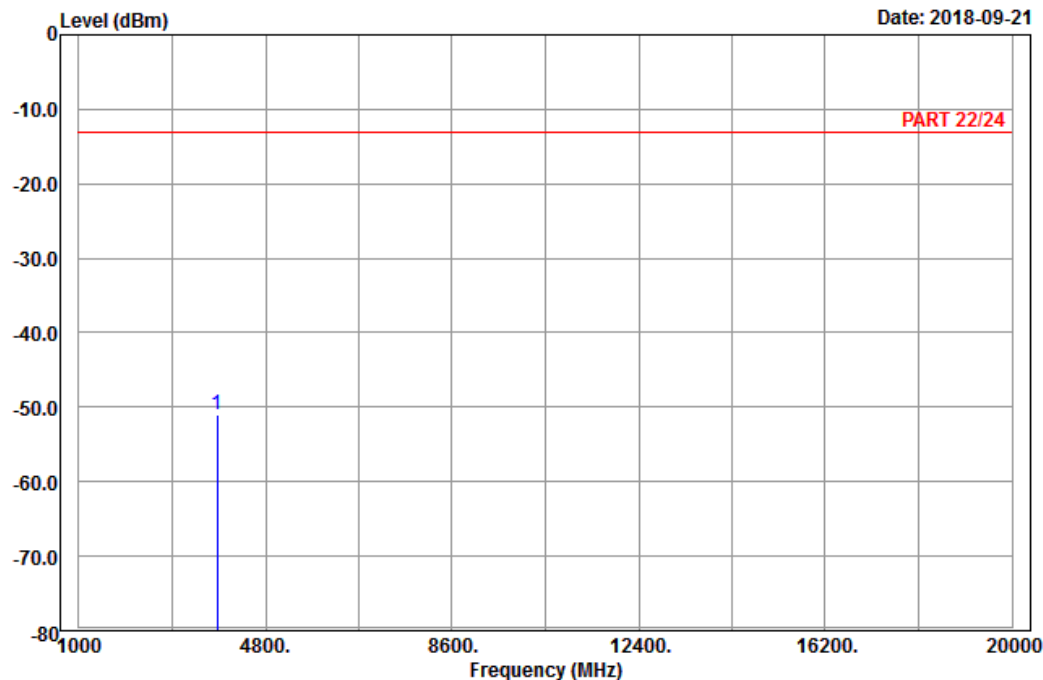


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-09-21



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 25_Link_CH26590
Tested by: Charles Hsiao

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3810.00	-51.00	-67.41	-13.00	-38.00	16.41	Peak

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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