

Partial FCC Test Report

(PART 24)

Report No.: RF140313C20E-5

FCC ID: QYLEM7455T

Test Model: EM7455

Received Date: Oct. 03, 2018

Test Date: Nov. 09, 2018 ~ Nov. 10, 2018

Issued Date: Nov. 22, 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 : 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
RF140313C20E-5	Original Release	Nov. 22, 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: Nov. 09, 2018 ~ Nov. 10, 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 :



Date:

Nov. 22, 2018

Flora Huang / Specialist

Approved by :



Date:

Nov. 22, 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 -15.83dB at 5580.00MHz.

Note:

This report is a partial report. Therefore, only test item of Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to TTS report no.:B15W50341-FCC-RF_Rev1 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) (±)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.0153 dB
	200MHz ~1000MHz	2.0224 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.0121 dB
	18GHz ~ 40GHz	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	101261	Jan. 11, 2018	Jan. 10, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-616	Dec. 14, 2017	Dec. 13, 2018
HORN Antenna ETS-Lindgren	3117	00143293	Dec. 13, 2017	Dec. 12, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 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	MT8821C	6261786083	Dec. 21, 2017	Dec. 20, 2018
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019

- 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 1GHz if tested.
4. The IC Site Registration No. is 7450I-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	3.3Vdc(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	414.00mW
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	396.28mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	399.94mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	403.37mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	407.38mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	411.15mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	414.95mW
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	398.11mW
	LTE Band 25 (Channel Bandwidth: 3 MHz)	401.79mW
	LTE Band 25 (Channel Bandwidth: 5 MHz)	401.79mW
	LTE Band 25 (Channel Bandwidth: 10 MHz)	405.51mW
	LTE Band 25 (Channel Bandwidth: 15 MHz)	409.26mW
	LTE Band 25 (Channel Bandwidth: 20 MHz)	412.10mW
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 used in specific End-product. Please refer to below for more details.

Product	Brand	Model
Tablet PC	Getac	T800

2. The antenna information is listed as below.

Antenna Type	Model	Antenna Gain		
		WCDMA II	LTE Band 2	LTE Band 25
PIFA	Main: 422122800006 Aux.: 422122800007	Main: 3.65 Aux.: 0.57	Main: 3.65 Aux.: 0.57	Main: 3.65 Aux.: 0.57

3. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	CHICONY	A12-065N2A	I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 19.0Vdc, 3.42A
Adapter 2	FSP GROUP INC.	FSP065-REB	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 19.0Vdc, 3.42A
Battery	Getac	BP2S2P2100S	7.4Vdc, 4200mAh, 32WAh
CPU	INTEL	Z8700	Speed:1.6GHz
LCD Panel	INNOLUX	HE0801A-06B	--
SSD	Hynix	H26M78103CCR	64GB
	Sandisk	SDIN8CE4-128G	128GB
OCD	FOXLINK	FO20FF-505H	Camera
		FO80AF-506H	Webcam
Digitizer	N/A	N/A	--
WWAN Module	Sierra	EM7455	--
GPS	GlobalSat	MT-5110C	--
WiFi& BT Module	Intel	7265NGW	--

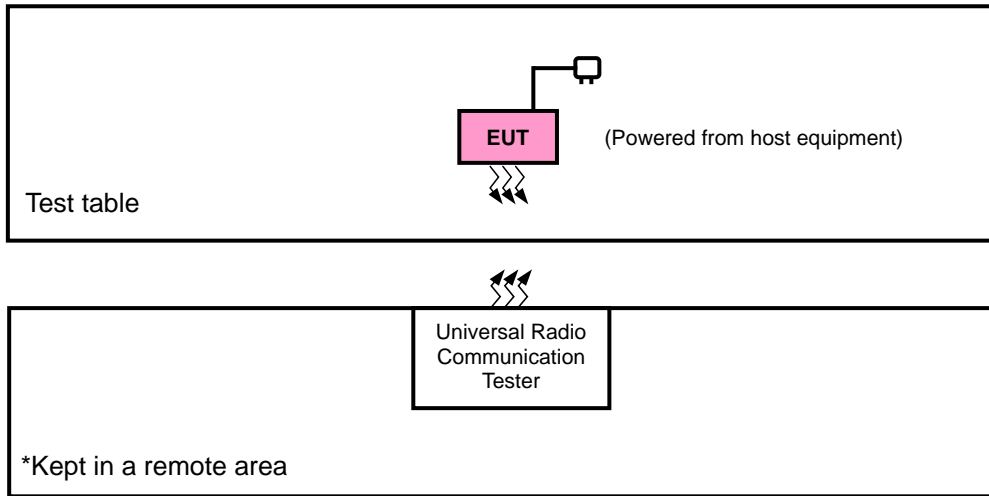
4. The End-product contains 4 SKU. The configurations of all SKU are listed as below. Only SKU D was tested and presented in the report.

Part	Brand	Model	Specification	Configuration			
				SKU A	SKU B	SKU C	SKU D
GPS	GlobalSat	MT-5110C	GPS	V	V	V	V
CPU	N/A	Z8700	Speed:1.6GHz	V	V	V	V
SSD	Hynix	H26M78103CCR	64GB	V			V
	Sandisk	SDIN8CE4-128G	128GB		V	V	
OCD	FOXLINK	FO20FF-505H	Camera	V	V	V	V
		FO80AF-506H	Webcam	V	V	V	V
Option Bay	N/A	N/A	LAN	V			V
	N/A	N/A	Barcode Reader		V	V	
WWAN Module	Sierra	EM7355	--	V	V	V	
	Sierra	EM7455	--				V
WiFi& BT Module	Intel	7265NGW	--	V	V	V	V
Digitizer	Hanvon	TP-018S-H1S1-GT	--			V	

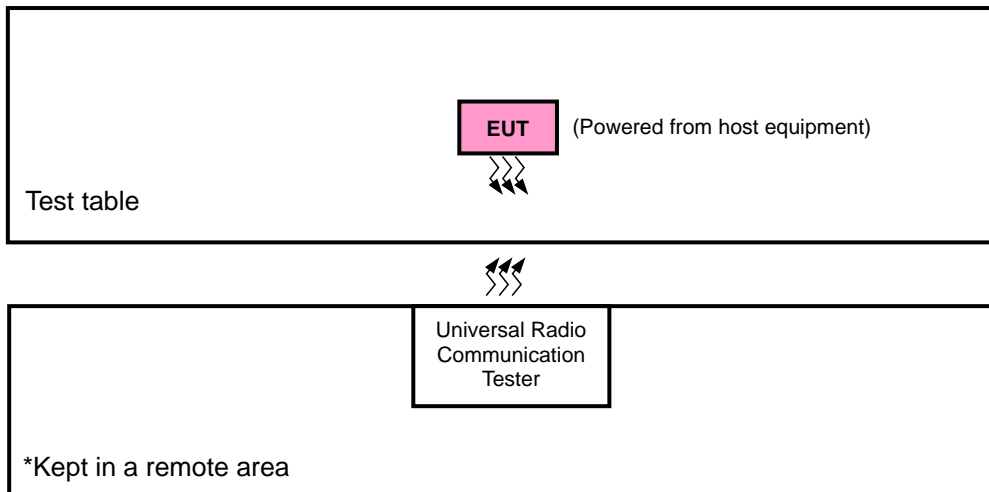
5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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, 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	X-axis
LTE Band 2	Z-plane	Z-axis
LTE Band 25	Z-plane	X-axis

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Radiated Emission	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	1.4MHz	QPSK, 16QAM	1 RB / 2 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 7 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 37 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 50 RB Offset
-	Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 2 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 12 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 50 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	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	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	25deg. C, 60%RH	120Vac, 60Hz	Karl Lee
Radiated Emission	25deg. C, 60%RH	120Vac, 60Hz	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 5MHz for WCDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1GHz) and/or 1.5 m (above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dB}$.

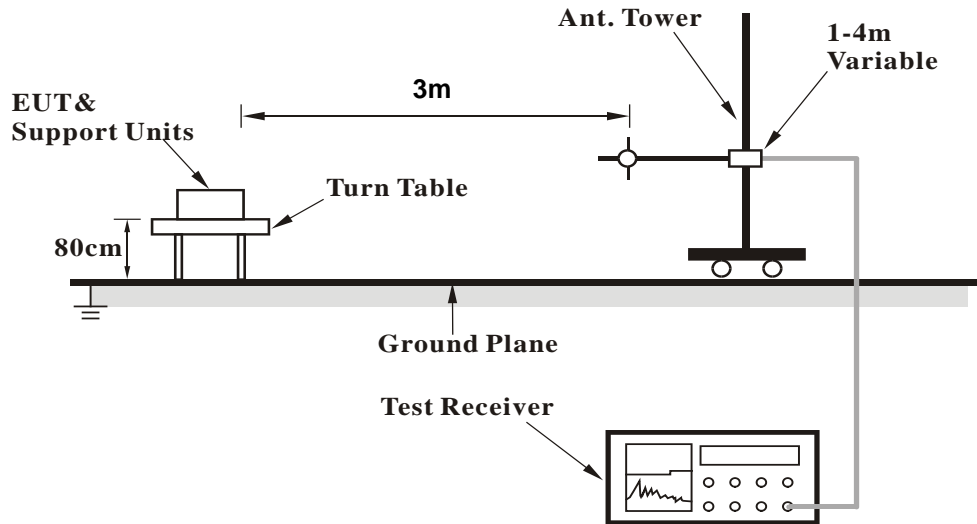
Conducted Power Measurement:

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.

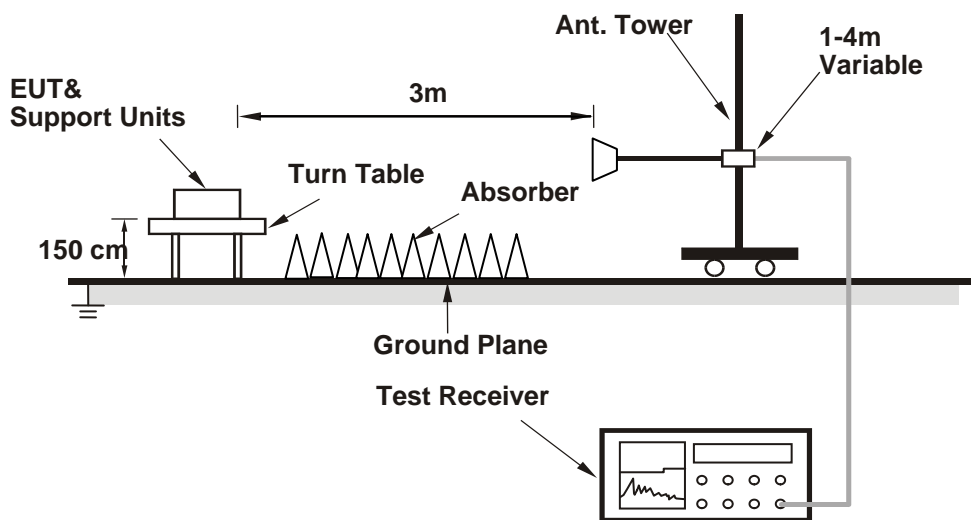
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1GHz>

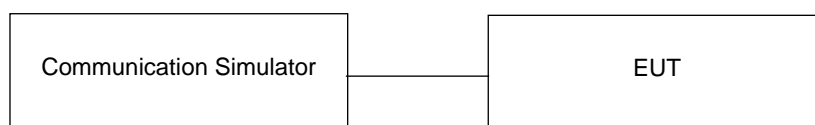


<Radiated Emission above 1GHz>



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		
	9262	9400	9538
Channel			
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.84	22.73	22.49
HSDPA Subtest-1	21.78	21.67	21.43
HSDPA Subtest-2	21.84	21.73	21.49
HSDPA Subtest-3	21.33	21.22	20.98
HSDPA Subtest-4	21.32	21.21	20.97
DC-HSDPA Subtest-1	21.73	21.62	21.38
DC-HSDPA Subtest-2	21.79	21.68	21.44
DC-HSDPA Subtest-3	21.28	21.17	20.93
DC-HSDPA Subtest-4	21.27	21.16	20.92
HSUPA Subtest-1	21.42	21.31	21.07
HSUPA Subtest-2	19.81	19.70	19.46
HSUPA Subtest-3	20.42	20.31	20.07
HSUPA Subtest-4	19.72	19.61	19.37
HSUPA Subtest-5	21.81	21.70	21.46

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	22.46	22.37	22.31	0	15M	QPSK	1	0	22.42	22.30	22.31	0		
		1	50	22.60	22.51	22.45	0			1	37	22.57	22.47	22.45	0		
		1	99	22.26	22.17	22.11	0			1	74	22.21	22.09	22.07	0		
		50	0	21.43	21.34	21.28	1			36	0	21.42	21.24	21.22	1		
		50	25	21.51	21.42	21.36	1			36	19	21.44	21.34	21.31	1		
		50	50	21.46	21.37	21.31	1			36	39	21.46	21.37	21.22	1		
	16QAM	100	0	21.45	21.36	21.30	1		75	0	21.36	21.27	21.22	1			
		1	0	21.37	21.29	21.21	1		1	0	21.29	21.29	21.18	1			
		1	50	21.58	21.48	21.44	1		1	37	21.44	21.42	21.44	1			
		1	99	21.24	21.08	21.08	1		1	74	21.07	21.08	21.03	1			
		50	0	20.34	20.29	20.26	2		36	0	20.35	20.29	20.14	2			
		50	25	20.41	20.35	20.32	2		36	19	20.43	20.29	20.25	2			
		50	50	20.42	20.37	20.28	2		36	39	20.39	20.30	20.19	2			
		100	0	20.35	20.28	20.30	2		75	0	20.35	20.17	20.19	2			
10M	QPSK	1	0	22.34	22.24	22.22	0	5M	QPSK	1	0	22.40	22.22	22.18	0		
		1	24	22.54	22.30	22.37	0			1	12	22.41	22.51	22.35	0		
		1	49	22.23	22.03	22.11	0			1	24	22.02	22.08	22.01	0		
		25	0	21.37	21.26	21.05	1			12	0	21.40	21.23	21.03	1		
		25	12	21.37	21.25	21.14	1			12	6	21.33	21.37	21.14	1		
		25	25	21.34	21.34	21.22	1			12	13	21.30	21.22	21.12	1		
	16QAM	50	0	21.23	21.22	21.15	1		25	0	21.30	21.21	21.23	1			
		1	0	21.34	21.17	21.19	1		1	0	21.24	21.10	21.10	1			
		1	24	21.39	21.27	21.35	1		1	12	21.44	21.26	21.34	1			
		1	49	21.08	21.10	21.05	1		1	24	21.03	21.01	21.02	1			
		25	0	20.19	20.16	20.12	2		12	0	20.17	20.08	20.09	2			
		25	12	20.46	20.29	20.16	2		12	6	20.23	20.13	20.22	2			
		25	25	20.31	20.31	20.26	2		12	13	20.30	20.21	20.27	2			
		50	0	20.25	20.21	20.11	2		25	0	20.27	20.11	20.08	2			
3M	QPSK	1	0	22.41	22.19	22.25	0	1.4M	QPSK	1	0	22.39	22.26	22.09	0		
		1	7	22.49	22.35	22.28	0			1	2	22.53	22.31	22.44	0		
		1	14	22.12	22.01	22.05	0			1	5	22.21	22.03	22.07	0		
		8	0	21.27	21.23	21.08	1			3	0	22.37	22.24	22.14	0		
		8	3	21.37	21.20	21.21	1			3	1	22.40	22.22	22.12	0		
		8	7	21.39	21.19	21.08	1			3	3	22.31	22.35	22.10	0		
	16QAM	15	0	21.31	21.34	21.11	1		6	0	21.28	21.34	21.29	1			
		1	0	21.29	21.26	21.09	1		1	0	21.36	21.30	21.22	1			
		1	7	21.33	21.40	21.29	1		1	2	21.49	21.40	21.26	1			
		1	14	21.06	21.11	21.02	1		1	5	21.13	21.05	21.10	1			
		8	0	20.29	20.06	20.02	2		3	0	21.19	21.29	21.11	1			
		8	3	20.47	20.15	20.24	2		3	1	21.33	21.23	21.12	1			
		8	7	20.22	20.24	20.14	2		3	3	21.38	21.23	21.11	1			
		15	0	20.23	20.16	20.13	2		6	0	20.26	20.12	20.24	2			

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)
				26140	26365	26590						26115	26365	26615	
				Channel Frequency (MHz)	1860.0	1882.5						1905.0	Channel Frequency (MHz)	1857.5	
20M	QPSK	1	0	22.49	22.44	22.43	0	15M	QPSK	1	0	22.44	22.44	22.38	0
		1	50	22.45	22.40	22.39	0			1	37	22.43	22.39	22.29	0
		1	99	22.11	22.06	22.05	0			1	74	22.01	22.06	22.02	0
		50	0	21.49	21.44	21.43	1			36	0	21.43	21.40	21.39	1
		50	25	21.52	21.47	21.46	1			36	19	21.50	21.39	21.46	1
		50	50	21.46	21.41	21.40	1			36	39	21.42	21.39	21.34	1
	100	0	21.49	21.44	21.43	1	75		0	21.49	21.40	21.36	1		
	16QAM	1	0	21.44	21.41	21.40	1		16QAM	1	0	21.35	21.34	21.38	1
		1	50	21.44	21.39	21.39	1			1	37	21.25	21.28	21.39	1
		1	99	21.05	21.03	21.01	1			1	74	21.06	21.08	21.04	1
		50	0	20.46	20.40	20.35	2			36	0	20.36	20.35	20.31	2
		50	25	20.45	20.38	20.41	2			36	19	20.41	20.37	20.34	2
		50	50	20.45	20.41	20.40	2			36	39	20.31	20.39	20.34	2
	100	0	20.40	20.36	20.37	2	75		0	20.43	20.35	20.33	2		
10M	QPSK	1	0	22.38	22.29	22.34	0	5M	QPSK	1	0	22.40	22.22	22.31	0
		1	24	22.30	22.27	22.28	0			1	12	22.27	22.27	22.30	0
		1	49	22.01	22.04	22.08	0			1	24	22.03	22.05	22.04	0
		25	0	21.33	21.31	21.24	1			12	0	21.44	21.43	21.20	1
		25	12	21.42	21.37	21.29	1			12	6	21.34	21.45	21.27	1
		25	25	21.32	21.30	21.40	1			12	13	21.32	21.29	21.25	1
	50	0	21.40	21.37	21.38	1	25		0	21.39	21.42	21.10	1		
	16QAM	1	0	21.25	21.36	21.33	1		16QAM	1	0	21.38	21.34	21.25	1
		1	24	21.18	21.28	21.28	1			1	12	21.37	21.20	21.13	1
		1	49	21.08	21.09	21.13	1			1	24	21.08	21.03	21.06	1
		25	0	20.36	20.28	20.24	2			12	0	20.28	20.30	20.12	2
		25	12	20.35	20.24	20.25	2			12	6	20.35	20.30	20.18	2
		25	25	20.37	20.12	20.26	2			12	13	20.19	20.25	20.34	2
	50	0	20.32	20.18	20.21	2	25		0	20.25	20.24	20.35	2		
3M	QPSK	1	0	22.42	22.34	22.18	0	1.4M	QPSK	1	0	22.36	22.35	22.32	0
		1	7	22.33	22.24	22.17	0			1	2	22.24	22.21	22.29	0
		1	14	22.01	22.04	22.10	0			1	5	22.16	22.07	22.03	0
		8	0	21.24	21.23	21.39	1			3	0	22.42	22.34	22.23	0
		8	3	21.49	21.34	21.39	1			3	1	22.34	22.38	22.40	0
		8	7	21.40	21.29	21.26	1			3	3	22.35	22.28	22.35	0
	15	0	21.43	21.28	21.31	1	6		0	21.39	21.39	21.22	1		
	16QAM	1	0	21.24	21.28	21.30	1		16QAM	1	0	21.31	21.23	21.26	1
		1	7	21.20	21.26	21.19	1			1	2	21.39	21.27	21.19	1
		1	14	21.15	21.07	21.01	1			1	5	21.22	21.09	21.23	1
		8	0	20.33	20.37	20.33	2			3	0	21.31	21.21	21.23	1
		8	3	20.42	20.39	20.25	2			3	1	21.30	21.33	21.29	1
		8	7	20.29	20.14	20.15	2			3	3	21.32	21.22	21.31	1
	15	0	20.30	20.20	20.31	2	6		0	20.41	20.23	20.27	2		
1.4M	QPSK	1	0	22.42	22.34	22.18	0	1.4M	QPSK	1	0	22.36	22.35	22.32	0
		1	7	22.33	22.24	22.17	0			1	2	22.24	22.21	22.29	0
		1	14	22.01	22.04	22.10	0			1	5	22.16	22.07	22.03	0
		8	0	21.24	21.23	21.39	1			3	0	22.42	22.34	22.23	0
		8	3	21.49	21.34	21.39	1			3	1	22.34	22.38	22.40	0
		8	7	21.40	21.29	21.26	1			3	3	22.35	22.28	22.35	0
	15	0	21.43	21.28	21.31	1	6		0	21.39	21.39	21.22	1		
	16QAM	1	0	21.24	21.28	21.30	1		16QAM	1	0	21.31	21.23	21.26	1
		1	7	21.20	21.26	21.19	1			1	2	21.39	21.27	21.19	1
		1	14	21.15	21.07	21.01	1			1	5	21.22	21.09	21.23	1
		8	0	20.33	20.37	20.33	2			3	0	21.31	21.21	21.23	1
		8	3	20.42	20.39	20.25	2			3	1	21.30	21.33	21.29	1
		8	7	20.29	20.14	20.15	2			3	3	21.32	21.22	21.31	1
	15	0	20.30	20.20	20.31	2	6		0	20.41	20.23	20.27	2		

EIRP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	9262	1852.4	-12.02	38.19	26.17	414.00	H
	9400	1880.0	-12.64	38.70	26.06	403.65	
	9538	1907.6	-13.43	39.35	25.92	390.84	
	9262	1852.4	-15.32	38.48	23.16	207.01	V
	9400	1880.0	-15.54	38.59	23.05	201.84	
	9538	1907.6	-15.94	38.87	22.93	196.34	

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

LTE Band 2							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18607	1850.7	-18.72	44.70	25.98	396.28	H
	18900	1880.0	-18.78	44.70	25.92	390.84	
	19193	1909.3	-18.73	44.57	25.84	383.97	
	18607	1850.7	-21.32	44.27	22.95	197.24	V
	18900	1880.0	-22.00	44.87	22.87	193.64	
	19193	1909.3	-21.79	44.61	22.82	191.56	
Channel Bandwidth: 1.4MHz / 16QAM							
Z	18607	1850.7	-19.73	44.70	24.97	314.05	H
	18900	1880.0	-19.79	44.70	24.91	309.74	
	19193	1909.3	-19.74	44.57	24.83	304.30	
	18607	1850.7	-22.32	44.27	21.95	156.68	V
	18900	1880.0	-23.01	44.87	21.86	153.46	
	19193	1909.3	-22.79	44.61	21.82	152.16	

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

LTE Band 2							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18615	1851.5	-18.68	44.70	26.02	399.94	H
	18900	1880.0	-18.74	44.70	25.96	394.46	
	19185	1908.5	-18.70	44.57	25.87	386.63	
	18615	1851.5	-21.28	44.27	22.99	199.07	V
	18900	1880.0	-21.97	44.87	22.90	194.98	
	19185	1908.5	-21.75	44.61	22.86	193.33	
Channel Bandwidth: 3MHz / 16QAM							
Z	18615	1851.5	-19.68	44.70	25.02	317.69	H
	18900	1880.0	-19.74	44.70	24.96	313.33	
	19185	1908.5	-19.71	44.57	24.86	306.41	
	18615	1851.5	-22.29	44.27	21.98	157.76	V
	18900	1880.0	-22.98	44.87	21.89	154.53	
	19185	1908.5	-22.76	44.61	21.85	153.21	

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

LTE Band 2							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18625	1852.5	-18.64	44.70	26.06	403.37	H
	18900	1880.0	-18.71	44.70	25.99	397.19	
	19175	1907.5	-18.66	44.57	25.91	390.21	
	18625	1852.5	-21.24	44.27	23.03	200.91	V
	18900	1880.0	-21.93	44.87	22.94	196.79	
	19175	1907.5	-21.71	44.61	22.90	195.12	
Channel Bandwidth: 5MHz / 16QAM							
Z	18625	1852.5	-19.65	44.70	25.05	319.89	H
	18900	1880.0	-19.72	44.70	24.98	314.77	
	19175	1907.5	-19.66	44.57	24.91	309.96	
	18625	1852.5	-22.25	44.27	22.02	159.22	V
	18900	1880.0	-22.94	44.87	21.93	155.96	
	19175	1907.5	-22.72	44.61	21.89	154.63	

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

LTE Band 2							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855.0	-18.60	44.70	26.10	407.38	H
	18900	1880.0	-18.67	44.70	26.03	400.87	
	19150	1905.0	-18.62	44.57	25.95	393.82	
	18650	1855.0	-21.20	44.27	23.07	202.77	V
	18900	1880.0	-21.90	44.87	22.97	198.15	
	19150	1905.0	-21.68	44.61	22.93	196.47	
Channel Bandwidth: 10MHz / 16QAM							
Z	18650	1855.0	-19.61	44.70	25.09	322.85	H
	18900	1880.0	-19.68	44.70	25.02	317.69	
	19150	1905.0	-19.63	44.57	24.94	312.10	
	18650	1855.0	-22.21	44.27	22.06	160.69	V
	18900	1880.0	-22.91	44.87	21.96	157.04	
	19150	1905.0	-22.68	44.61	21.93	156.06	

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

LTE Band 2							
Channel Bandwidth: 15MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18675	1857.5	-18.56	44.70	26.14	411.15	H
	18900	1880.0	-18.63	44.70	26.07	404.58	
	19125	1902.5	-18.58	44.57	25.99	397.47	
	18675	1857.5	-21.16	44.27	23.11	204.64	V
	18900	1880.0	-21.82	44.87	23.05	201.84	
	19125	1902.5	-21.64	44.61	22.97	198.29	
Channel Bandwidth: 15MHz / 16QAM							
Z	18675	1857.5	-19.57	44.70	25.13	325.84	H
	18900	1880.0	-19.64	44.70	25.06	320.63	
	19125	1902.5	-19.58	44.57	24.99	315.72	
	18675	1857.5	-22.17	44.27	22.10	162.18	V
	18900	1880.0	-22.82	44.87	22.05	160.32	
	19125	1902.5	-22.65	44.61	21.96	157.14	

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

LTE Band 2							
Channel Bandwidth: 20MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860.0	-18.52	44.70	26.18	414.95	H
	18900	1880.0	-18.60	44.70	26.10	407.38	
	19100	1900.0	-18.54	44.57	26.03	401.14	
	18700	1860.0	-21.12	44.27	23.15	206.54	V
	18900	1880.0	-21.79	44.87	23.08	203.24	
	19100	1900.0	-21.60	44.61	23.01	200.12	
Channel Bandwidth: 20MHz / 16QAM							
Z	18700	1860.0	-19.53	44.70	25.17	328.85	H
	18900	1880.0	-19.61	44.70	25.09	322.85	
	19100	1900.0	-19.55	44.57	25.02	317.91	
	18700	1860.0	-22.12	44.27	22.15	164.06	V
	18900	1880.0	-22.80	44.87	22.07	161.06	
	19100	1900.0	-22.61	44.61	22.00	158.60	

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

LTE Band 25							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26047	1850.7	-18.70	44.70	26.00	398.11	H
	26365	1882.5	-18.80	44.70	25.90	389.05	
	26683	1914.3	-18.69	44.57	25.88	387.53	
	26047	1850.7	-22.30	44.27	21.97	157.40	V
	26365	1882.5	-22.97	44.87	21.90	154.88	
	26683	1914.3	-22.79	44.61	21.82	152.16	
Channel Bandwidth: 1.4MHz / 16QAM							
Z	26047	1850.7	-19.71	44.70	24.99	315.50	H
	26365	1882.5	-19.80	44.70	24.90	309.03	
	26683	1914.3	-19.70	44.57	24.87	307.11	
	26047	1850.7	-23.30	44.27	20.97	125.03	V
	26365	1882.5	-23.97	44.87	20.90	123.03	
	26683	1914.3	-23.80	44.61	20.81	120.59	

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

LTE Band 25							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26055	1851.5	-18.66	44.70	26.04	401.79	H
	26365	1882.5	-18.76	44.70	25.94	392.64	
	26675	1913.5	-18.65	44.57	25.92	391.11	
	26055	1851.5	-22.26	44.27	22.01	158.85	V
	26365	1882.5	-22.94	44.87	21.93	155.96	
	26675	1913.5	-22.75	44.61	21.86	153.57	
Channel Bandwidth: 3MHz / 16QAM							
Z	26055	1851.5	-19.67	44.70	25.03	318.42	H
	26365	1882.5	-19.76	44.70	24.94	311.89	
	26675	1913.5	-19.65	44.57	24.92	310.67	
	26055	1851.5	-23.27	44.27	21.00	125.89	V
	26365	1882.5	-23.95	44.87	20.92	123.59	
	26675	1913.5	-23.76	44.61	20.85	121.70	

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

LTE Band 25							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26065	1852.5	-18.66	44.70	26.04	401.79	H
	26365	1882.5	-18.72	44.70	25.98	396.28	
	26665	1912.5	-18.66	44.57	25.91	390.21	
	26065	1852.5	-22.22	44.27	22.05	160.32	V
	26365	1882.5	-22.91	44.87	21.96	157.04	
	26665	1912.5	-22.71	44.61	21.90	154.99	
Channel Bandwidth: 5MHz / 16QAM							
Z	26065	1852.5	-19.67	44.70	25.03	318.42	H
	26365	1882.5	-19.72	44.70	24.98	314.77	
	26665	1912.5	-19.66	44.57	24.91	309.96	
	26065	1852.5	-23.22	44.27	21.05	127.35	V
	26365	1882.5	-23.92	44.87	20.95	124.45	
	26665	1912.5	-23.72	44.61	20.89	122.83	

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

LTE Band 25							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26090	1855.0	-18.62	44.70	26.08	405.51	H
	26365	1882.5	-18.68	44.70	26.02	399.94	
	26640	1910.0	-18.62	44.57	25.95	393.82	
	26090	1855.0	-22.19	44.27	22.08	161.44	V
	26365	1882.5	-22.87	44.87	22.00	158.49	
	26640	1910.0	-22.67	44.61	21.94	156.42	
Channel Bandwidth: 10MHz / 16QAM							
Z	26090	1855.0	-19.63	44.70	25.07	321.37	H
	26365	1882.5	-19.69	44.70	25.01	316.96	
	26640	1910.0	-19.62	44.57	24.95	312.82	
	26090	1855.0	-23.20	44.27	21.07	127.94	V
	26365	1882.5	-23.87	44.87	21.00	125.89	
	26640	1910.0	-23.68	44.61	20.93	123.97	

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

LTE Band 25							
Channel Bandwidth: 15MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26115	1857.5	-18.58	44.70	26.12	409.26	H
	26365	1882.5	-18.64	44.70	26.06	403.65	
	26615	1907.5	-18.59	44.57	25.98	396.55	
	26115	1857.5	-22.15	44.27	22.12	162.93	V
	26365	1882.5	-22.84	44.87	22.03	159.59	
	26615	1907.5	-22.63	44.61	21.98	157.87	
Channel Bandwidth: 15MHz / 16QAM							
Z	26115	1857.5	-19.59	44.70	25.11	324.34	H
	26365	1882.5	-19.64	44.70	25.06	320.63	
	26615	1907.5	-19.60	44.57	24.97	314.27	
	26115	1857.5	-23.16	44.27	21.11	129.12	V
	26365	1882.5	-23.84	44.87	21.03	126.77	
	26615	1907.5	-23.64	44.61	20.97	125.11	

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

LTE Band 25							
Channel Bandwidth: 20MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26140	1860.0	-18.55	44.70	26.15	412.10	H
	26365	1882.5	-18.61	44.70	26.09	406.44	
	26590	1905.0	-18.55	44.57	26.02	400.22	
	26140	1860.0	-22.11	44.27	22.16	164.44	V
	26365	1882.5	-22.80	44.87	22.07	161.06	
	26590	1905.0	-22.60	44.61	22.01	158.96	
Channel Bandwidth: 20MHz / 16QAM							
Z	26140	1860.0	-19.56	44.70	25.14	326.59	H
	26365	1882.5	-19.62	44.70	25.08	322.11	
	26590	1905.0	-19.56	44.57	25.01	317.18	
	26140	1860.0	-23.12	44.27	21.15	130.32	V
	26365	1882.5	-23.80	44.87	21.07	127.94	
	26590	1905.0	-23.60	44.61	21.01	126.27	

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 -13dBm.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1GHz) and/or 1.5 m (above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. 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 - 2.15dB.

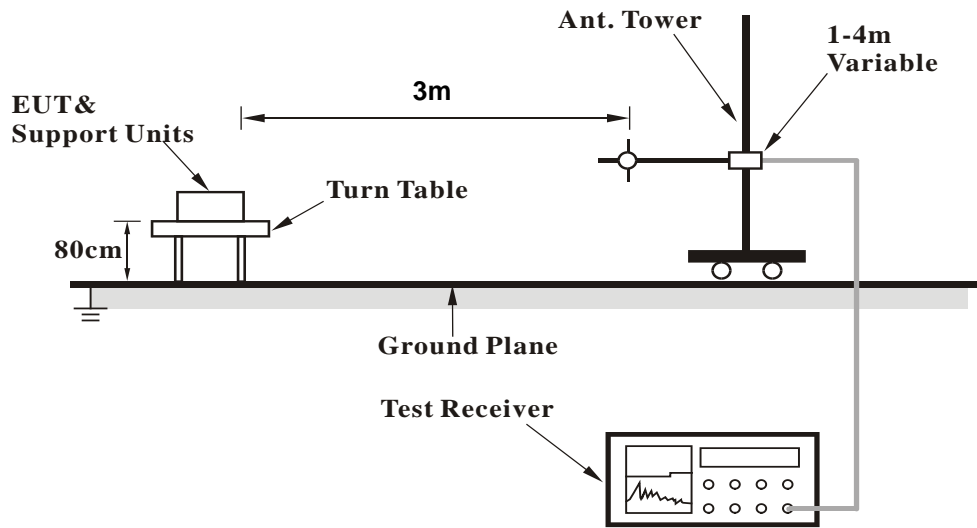
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.2.3 Deviation from Test Standard

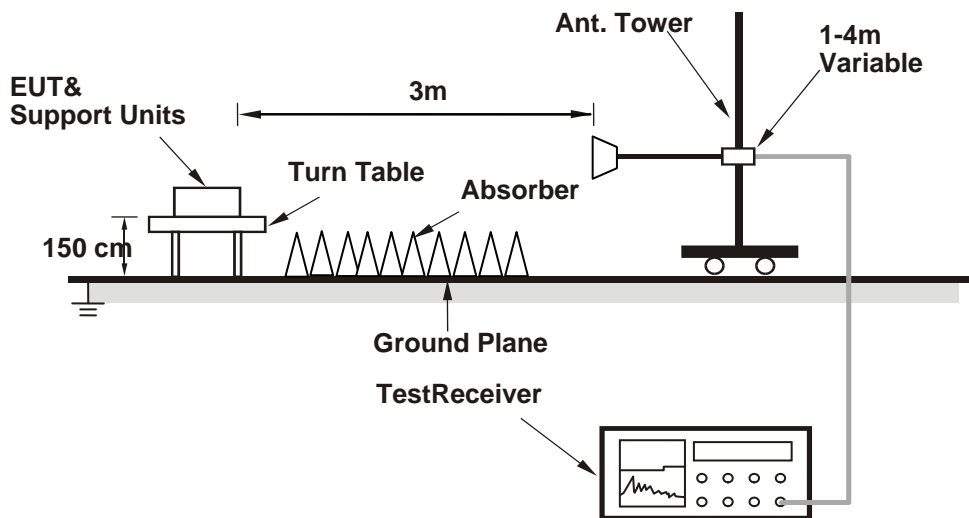
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1GHz>



<Radiated Emission above 1GHz>



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

4.2.5 Test Results

WCDMA:

Low Channel

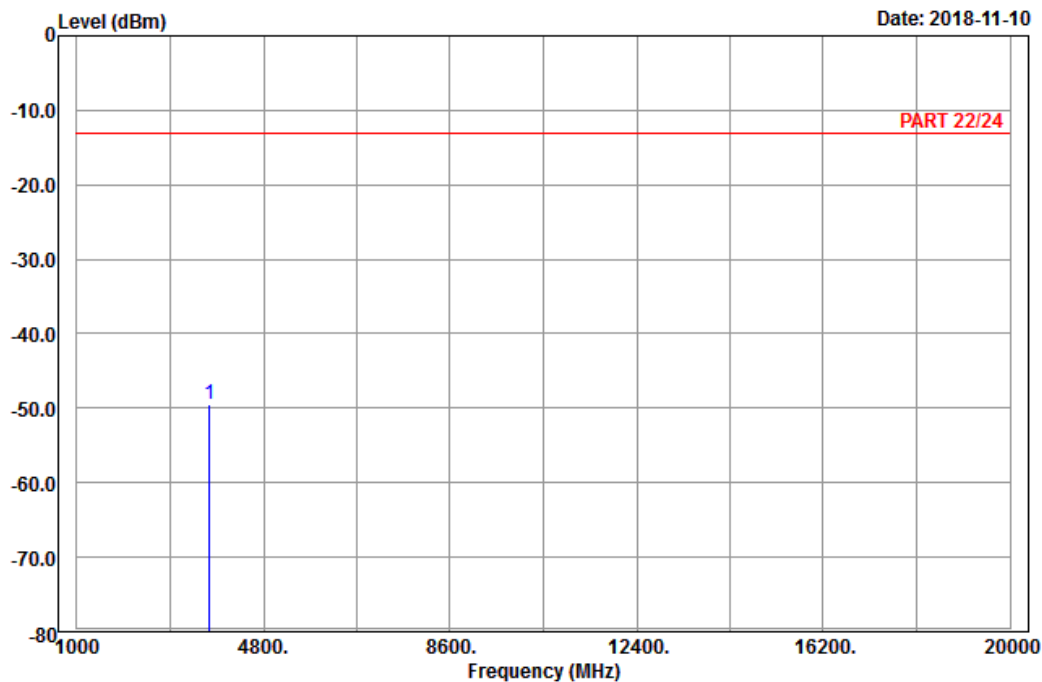


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3704.80	-49.46	-65.34	-13.00	-36.46	15.88	Peak

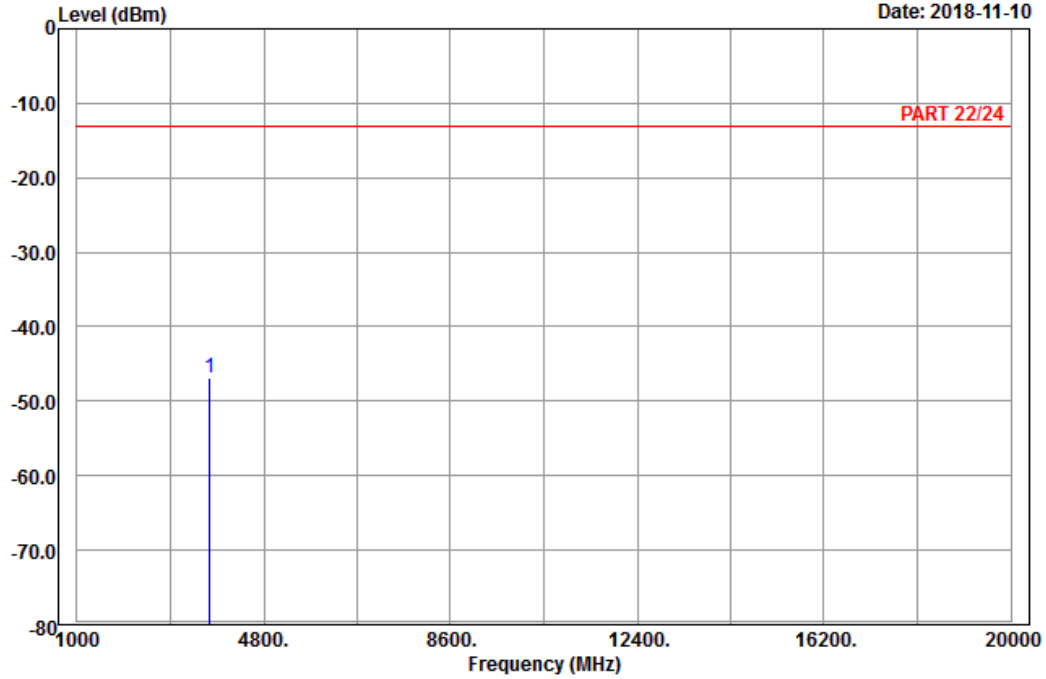


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A D T

Data: 4

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3704.80	-46.91	-62.79	-13.00	-33.91	15.88	Peak

Middle Channel

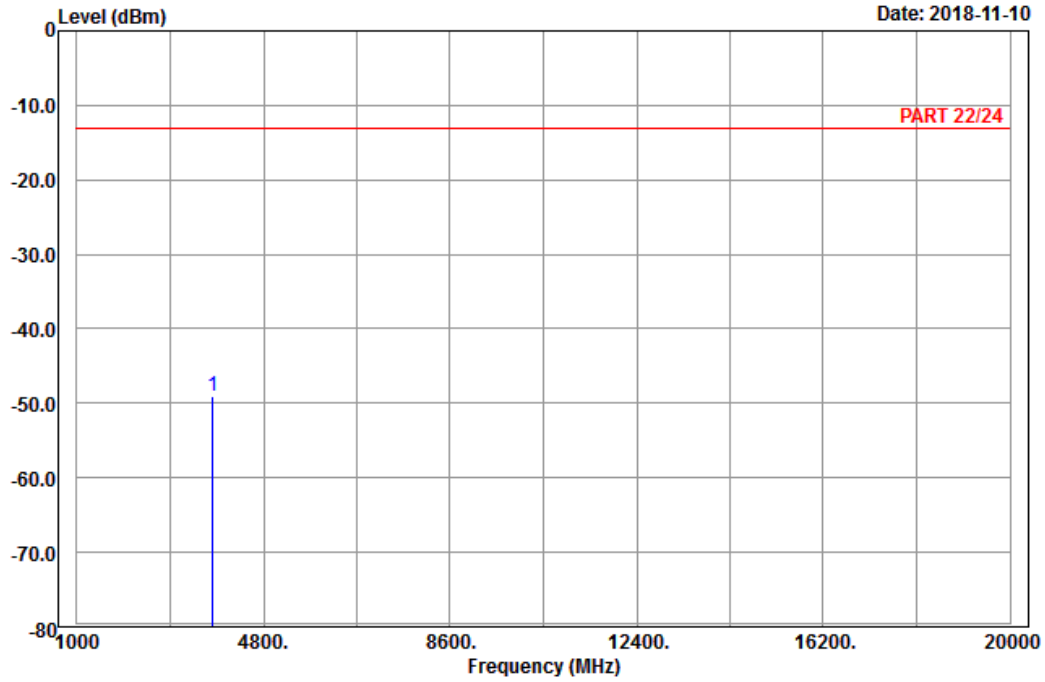


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A D T

Data: 3

Date: 2018-11-10



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 pp 3760.00	-49.10	-65.24	-13.00	-36.10	16.14	Peak

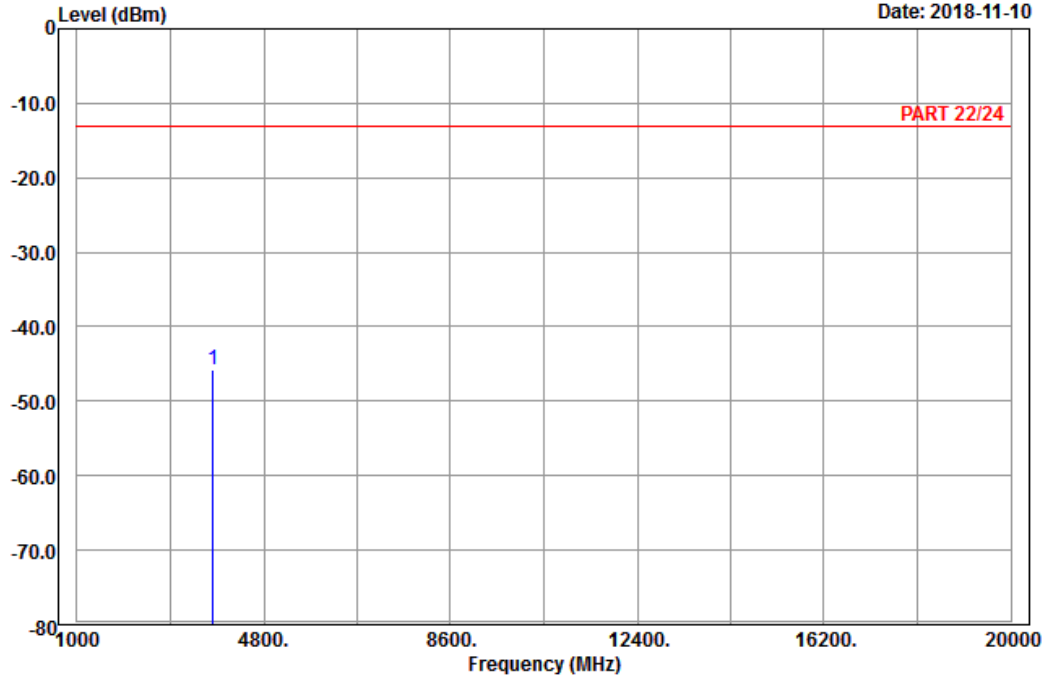


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A D T

Data: 4

Date: 2018-11-10



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	pp 3760.00	-45.72	-61.86	-13.00	-32.72	16.14	Peak

High Channel

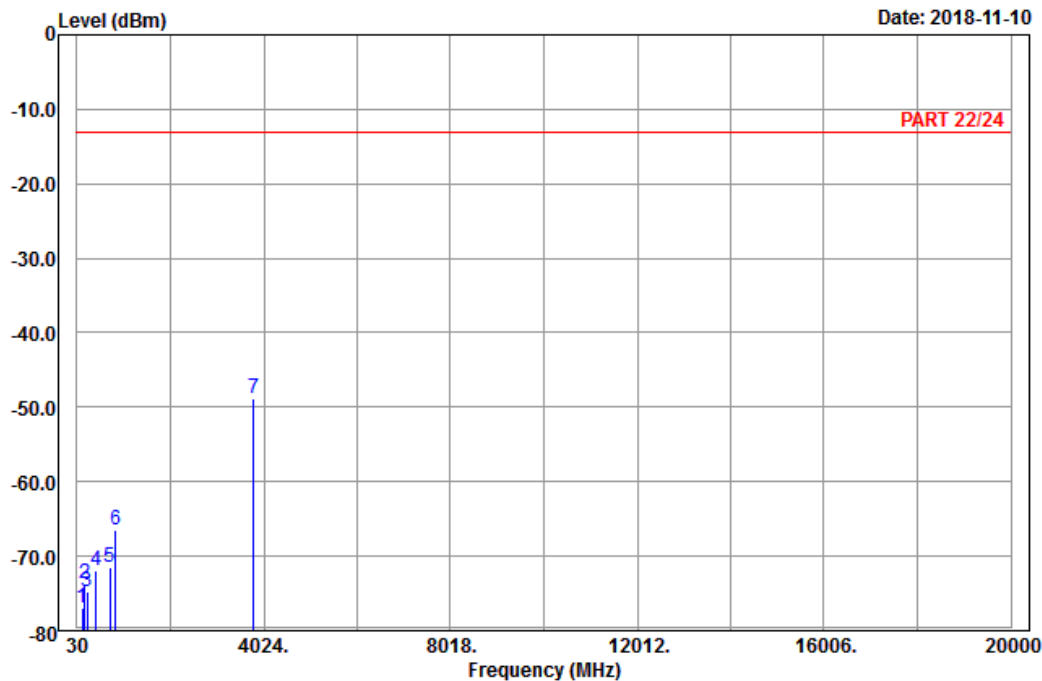


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A D T

Data: 7

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	141.78	-77.00	-69.26	-13.00	-64.00	-7.74	Peak
2	195.51	-73.67	-67.67	-13.00	-60.67	-6.00	Peak
3	242.22	-74.81	-69.20	-13.00	-61.81	-5.61	Peak
4	446.30	-72.03	-68.27	-13.00	-59.03	-3.76	Peak
5	741.70	-71.43	-70.27	-13.00	-58.43	-1.16	Peak
6	851.60	-66.41	-67.91	-13.00	-53.41	1.50	Peak
7 pp	3815.20	-48.86	-65.27	-13.00	-35.86	16.41	Peak

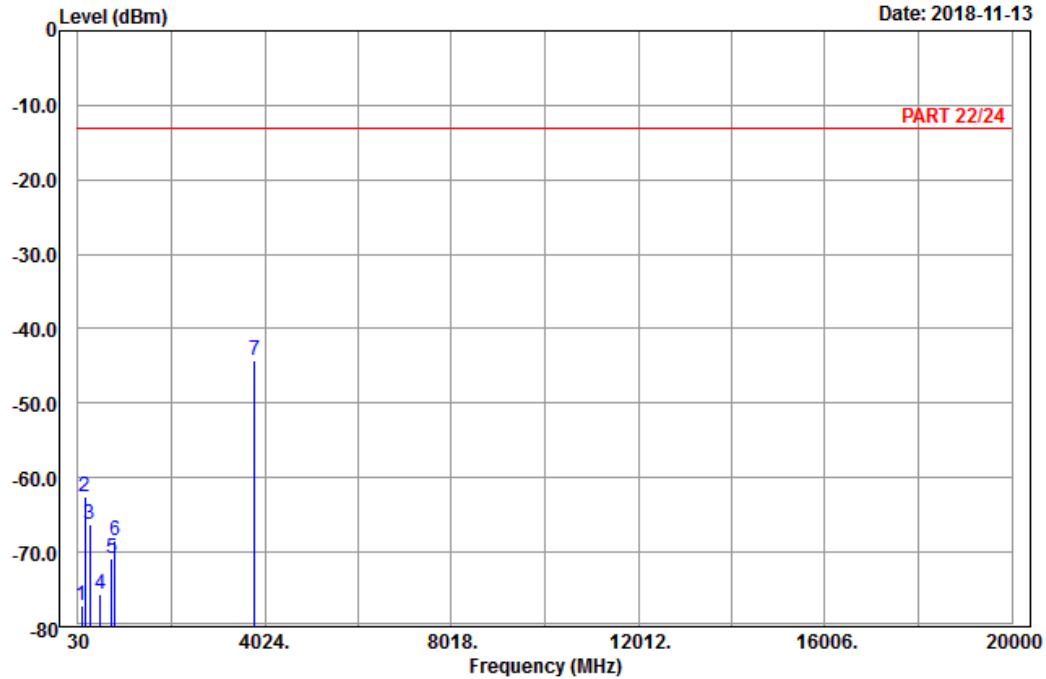


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A D T

Data: 8

Date: 2018-11-13



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	107.22	-77.08	-67.90	-13.00	-64.08	-9.18	Peak
2	169.86	-62.63	-55.92	-13.00	-49.63	-6.71	Peak
3	281.37	-66.16	-60.37	-13.00	-53.16	-5.79	Peak
4	503.70	-75.64	-70.57	-13.00	-62.64	-5.07	Peak
5	757.10	-70.93	-70.13	-13.00	-57.93	-0.80	Peak
6	814.50	-68.44	-70.29	-13.00	-55.44	1.85	Peak
7 pp	3815.20	-44.24	-60.65	-13.00	-31.24	16.41	Peak

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

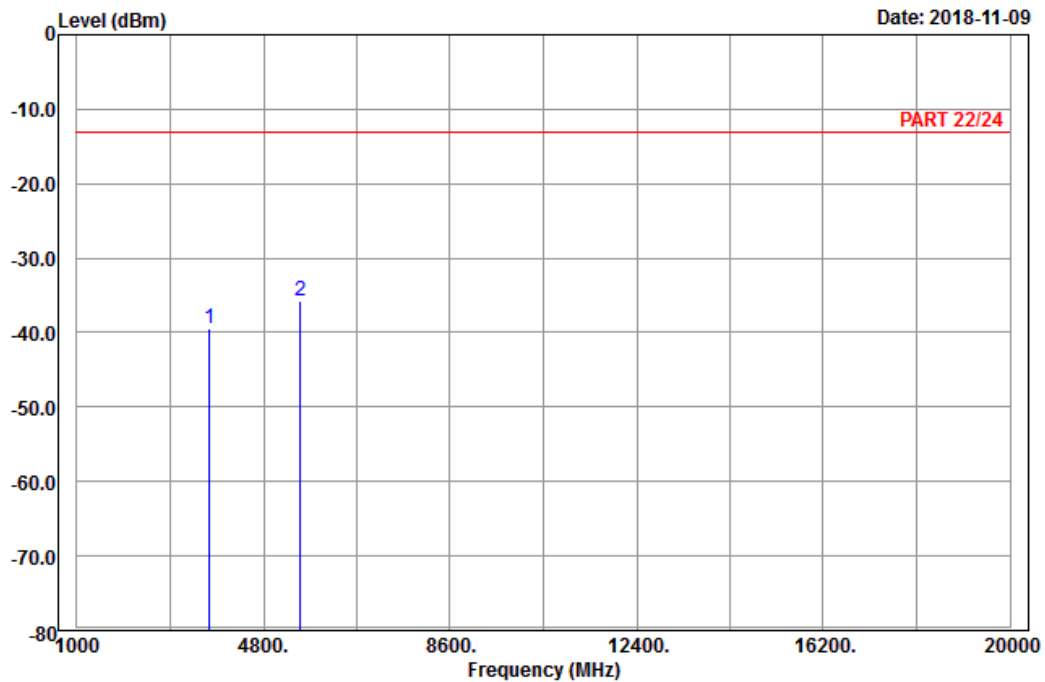


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-09



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

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	3701.40	-39.43	-55.31	-13.00	-26.43	15.88	Peak
2 pp	5552.10	-35.69	-56.03	-13.00	-22.69	20.34	Peak

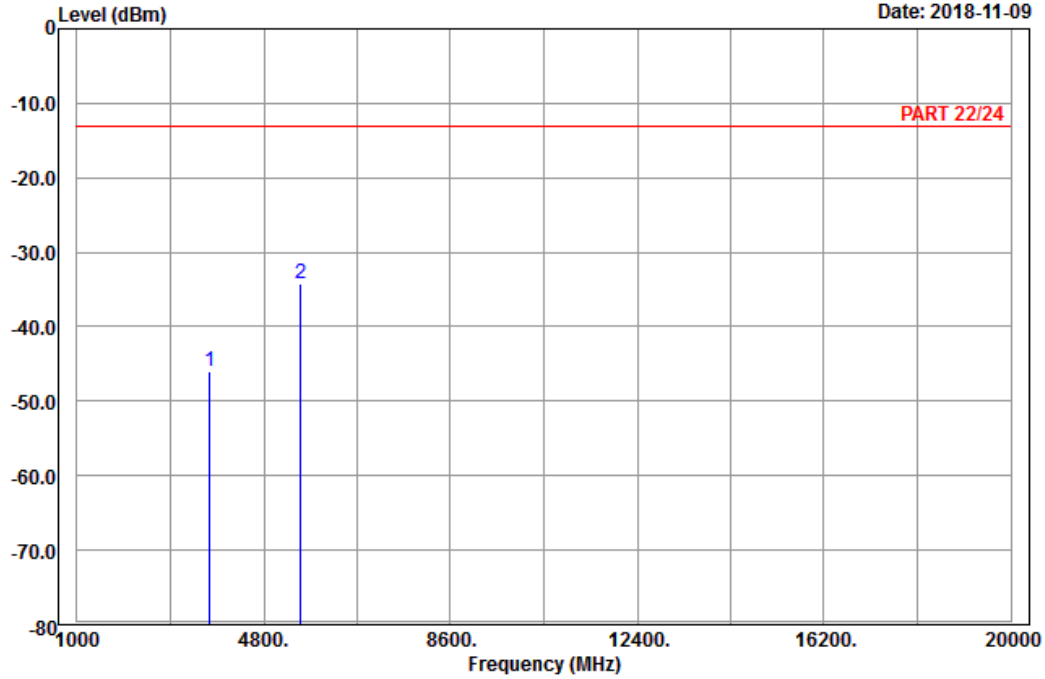


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A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3701.40	-45.99	-61.87	-13.00	-32.99	15.88	Peak
2 pp	5552.10	-34.12	-54.46	-13.00	-21.12	20.34	Peak

Middle Channel

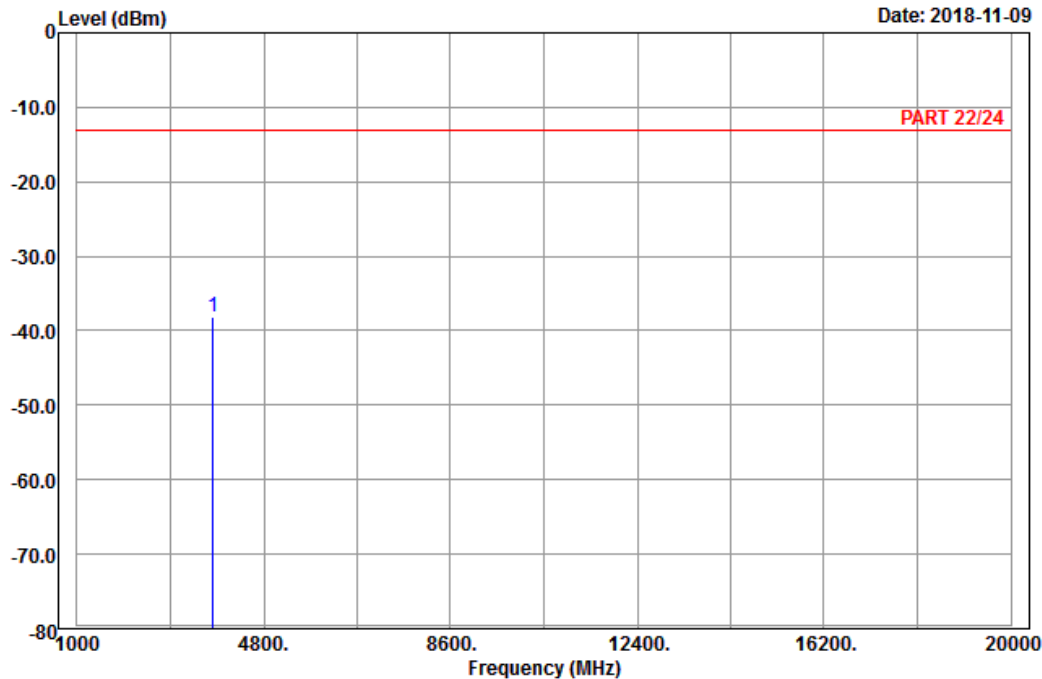


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A D T

Data: 9

Date: 2018-11-09



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 2_Link_CH18900
 Tested by: Karl Lee

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-38.25	-54.39	-13.00	-25.25	16.14	Peak

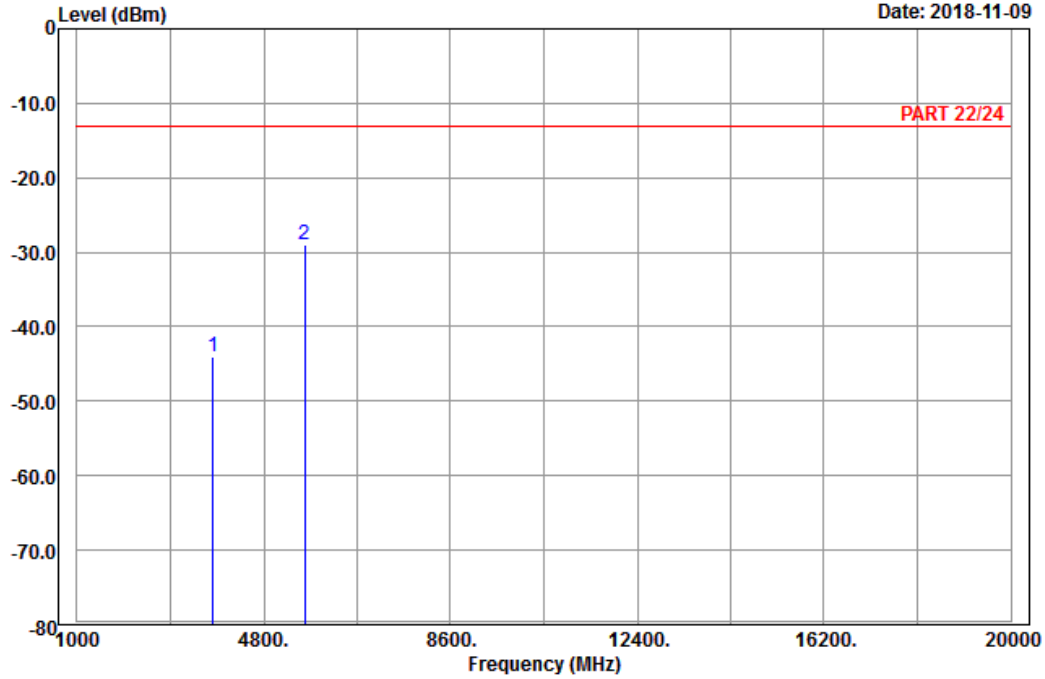


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A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3760.00	-44.01	-60.15	-13.00	-31.01	16.14	Peak
2 pp	5640.00	-29.02	-49.49	-13.00	-16.02	20.47	Peak

High Channel

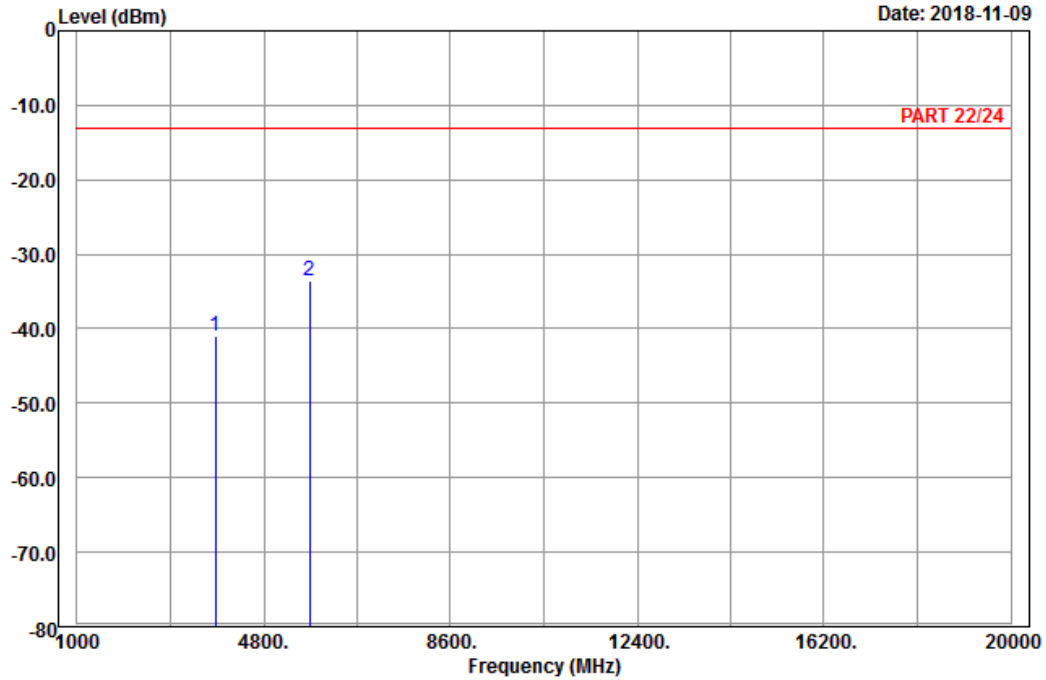


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A D T

Data: 9

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3818.60	-41.04	-57.54	-13.00	-28.04	16.50	Peak
2 pp	5727.90	-33.54	-53.88	-13.00	-20.54	20.34	Peak

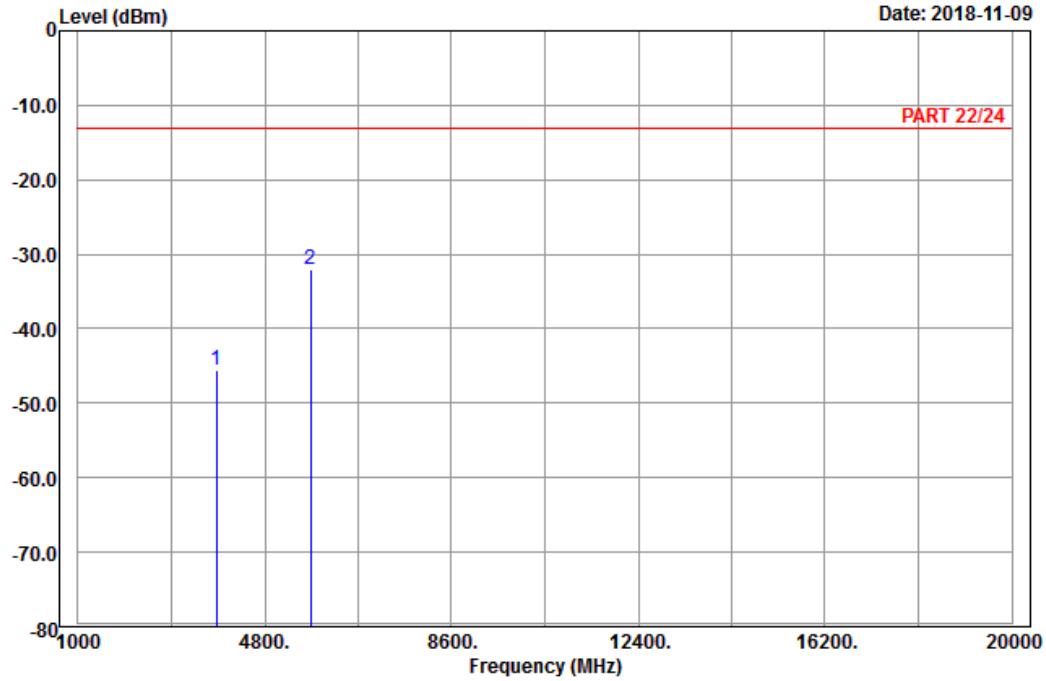


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3818.60	-45.52	-62.02	-13.00	-32.52	16.50	Peak
2 pp	5727.90	-31.94	-52.28	-13.00	-18.94	20.34	Peak

Channel Bandwidth: 5 MHz / QPSK
 Low Channel

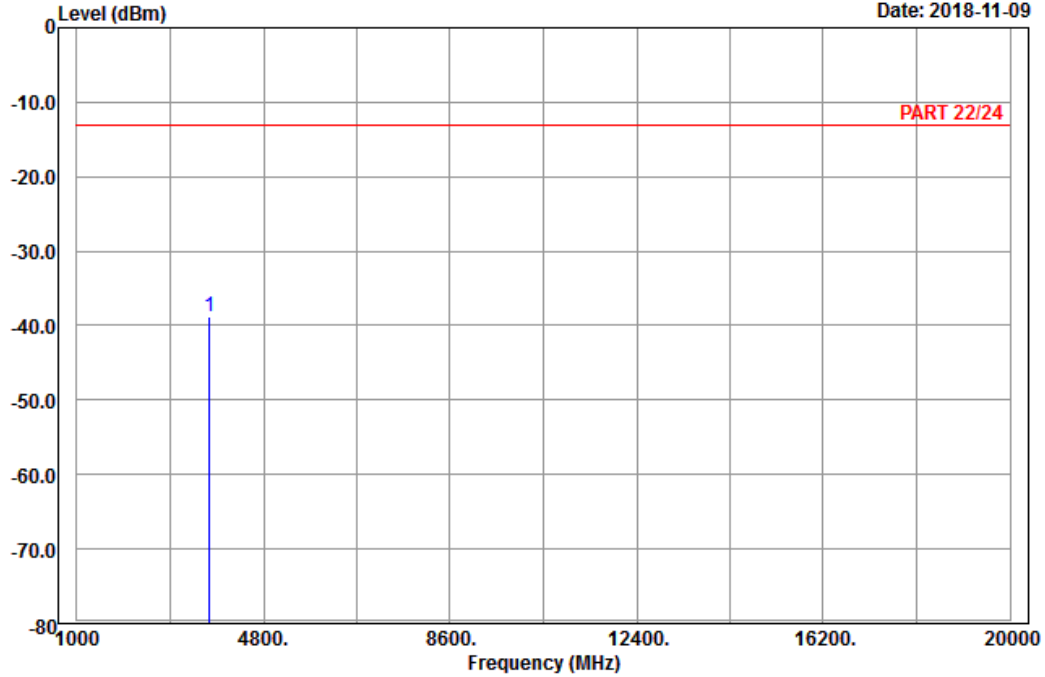


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A D T

Data: 9

Date: 2018-11-09



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

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3705.00	-38.88	-54.76	-13.00	-25.88	15.88	Peak

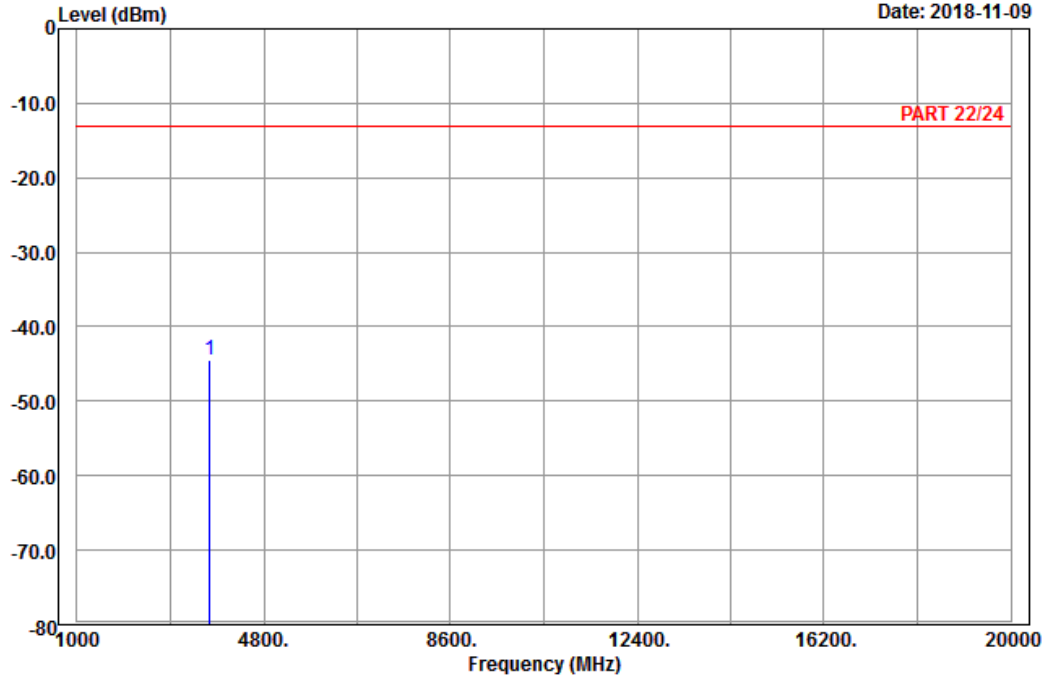


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3705.00	-44.57	-60.45	-13.00	-31.57	15.88	Peak

Middle Channel

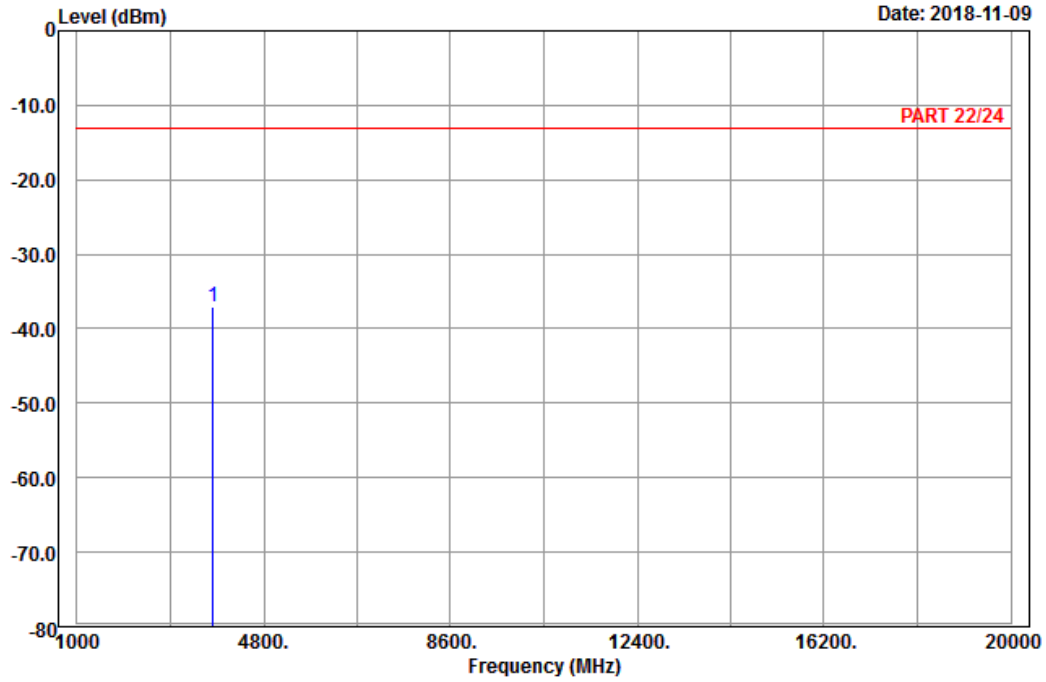


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-09



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 2_Link_CH18900
 Tested by: Karl Lee

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-37.09	-53.23	-13.00	-24.09	16.14	Peak

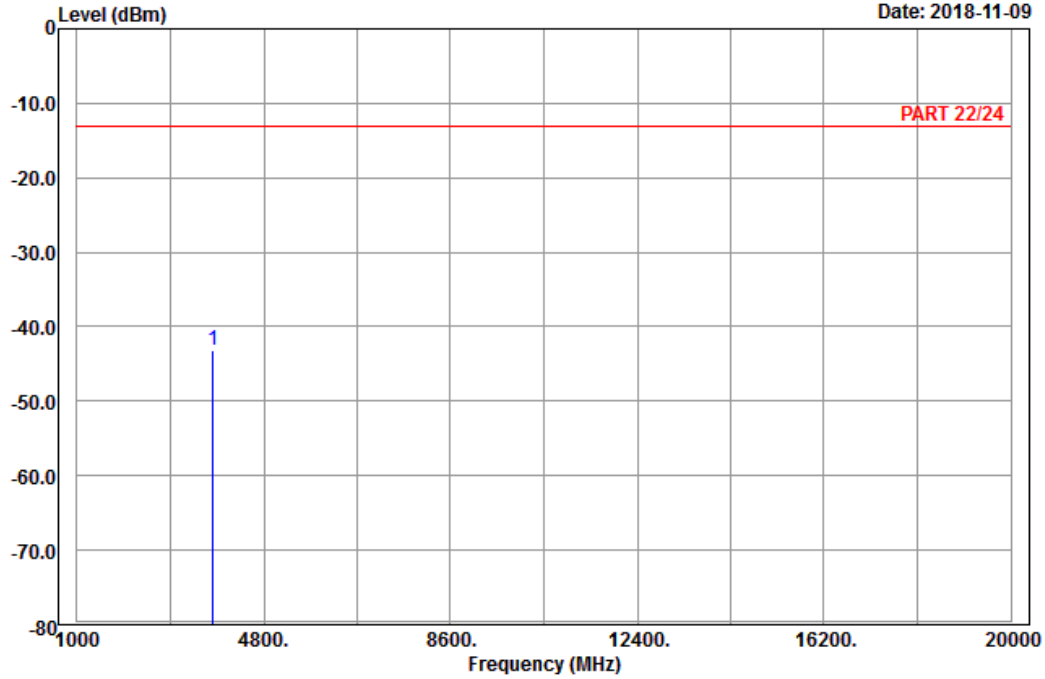


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3760.00	-43.12	-59.26	-13.00	-30.12	16.14	Peak

High Channel

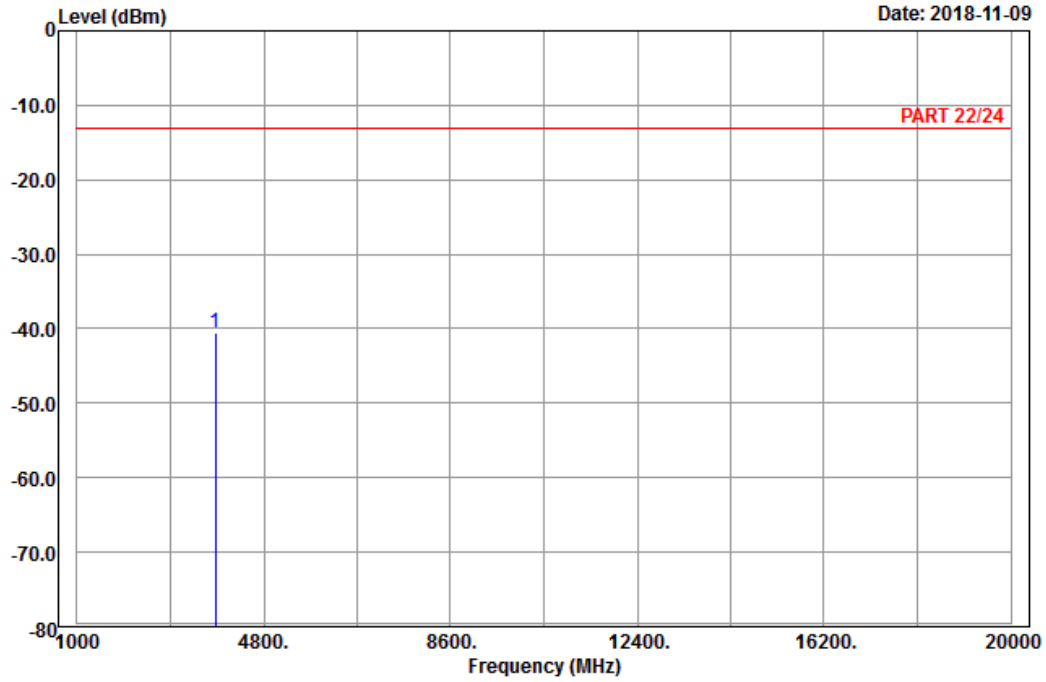


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-09



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

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.00	-40.55	-56.96	-13.00	-27.55	16.41	Peak

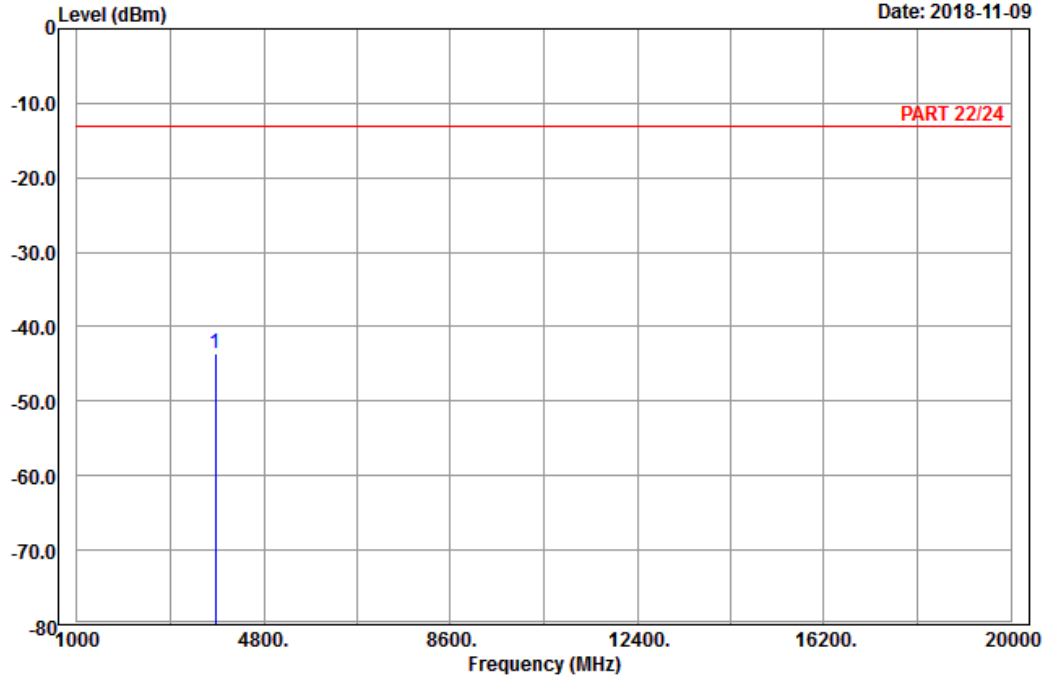


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3815.00	-43.55	-59.96	-13.00	-30.55	16.41	Peak

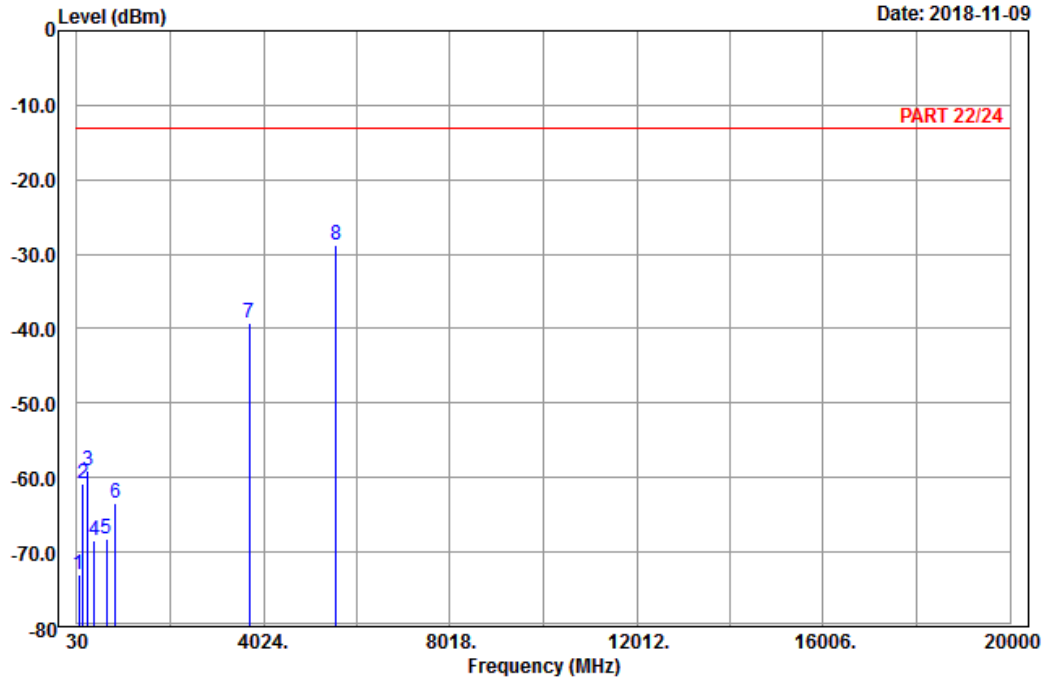
Channel Bandwidth: 20 MHz / QPSK
Low Channel



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 2_Link_CH18700
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	69.96	-73.09	-60.41	-13.00	-60.09	-12.68	Peak
2	162.57	-60.77	-53.39	-13.00	-47.77	-7.38	Peak
3	262.20	-59.07	-53.46	-13.00	-46.07	-5.61	Peak
4	401.50	-68.37	-65.59	-13.00	-55.37	-2.78	Peak
5	655.60	-68.32	-68.16	-13.00	-55.32	-0.16	Peak
6	853.70	-63.49	-65.05	-13.00	-50.49	1.56	Peak
7	3720.00	-39.18	-55.15	-13.00	-26.18	15.97	Peak
8 pp	5580.00	-28.83	-49.20	-13.00	-15.83	20.37	Peak

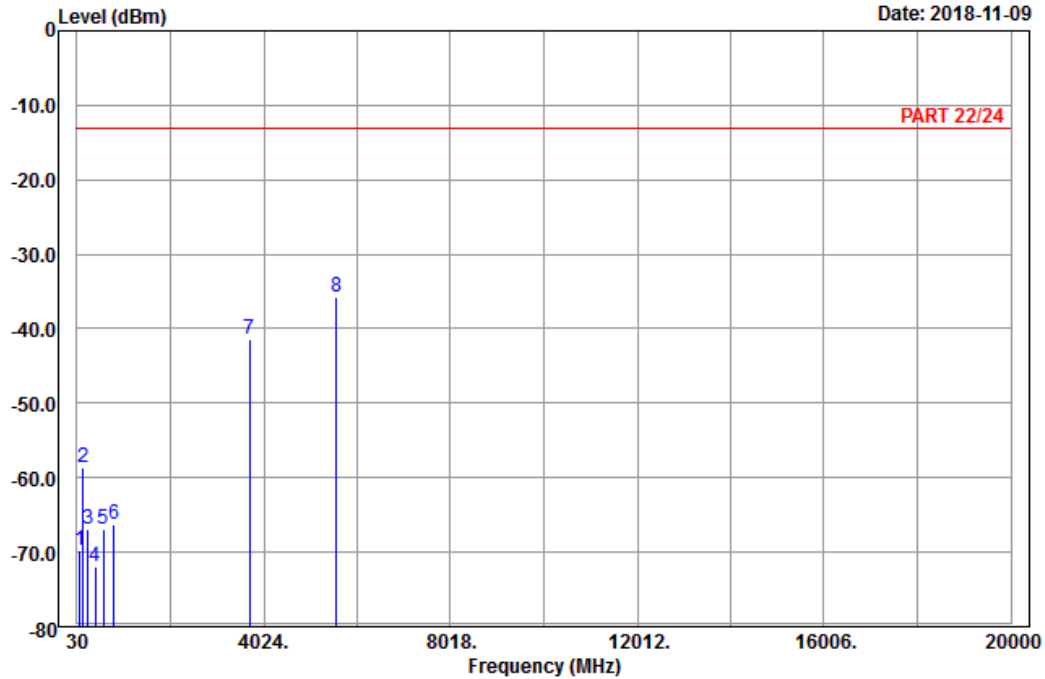


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A D T

Data: 14

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	93.72	-69.85	-59.40	-13.00	-56.85	-10.45	Peak
2	163.11	-58.53	-51.15	-13.00	-45.53	-7.38	Peak
3	266.79	-66.90	-61.24	-13.00	-53.90	-5.66	Peak
4	424.60	-71.90	-68.61	-13.00	-58.90	-3.29	Peak
5	600.30	-66.82	-67.25	-13.00	-53.82	0.43	Peak
6	821.50	-66.35	-68.12	-13.00	-53.35	1.77	Peak
7	3720.00	-41.40	-57.37	-13.00	-28.40	15.97	Peak
8 pp	5580.00	-35.72	-56.09	-13.00	-22.72	20.37	Peak

Middle Channel

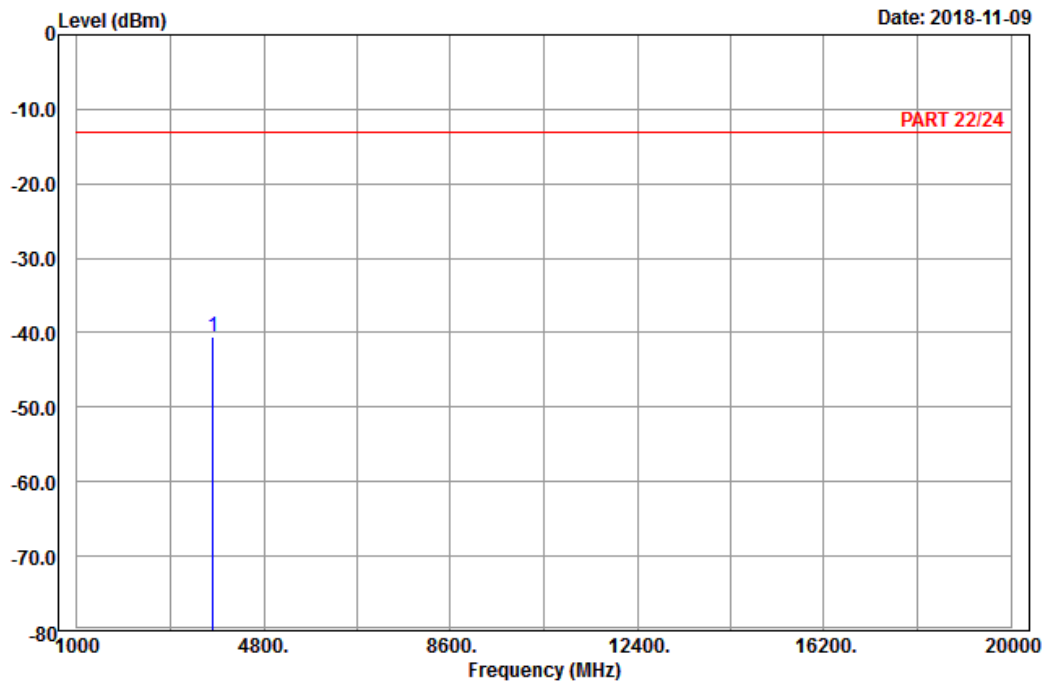


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-09



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 2_Link_CH18900
 Tested by: Karl Lee

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-40.44	-56.58	-13.00	-27.44	16.14	Peak

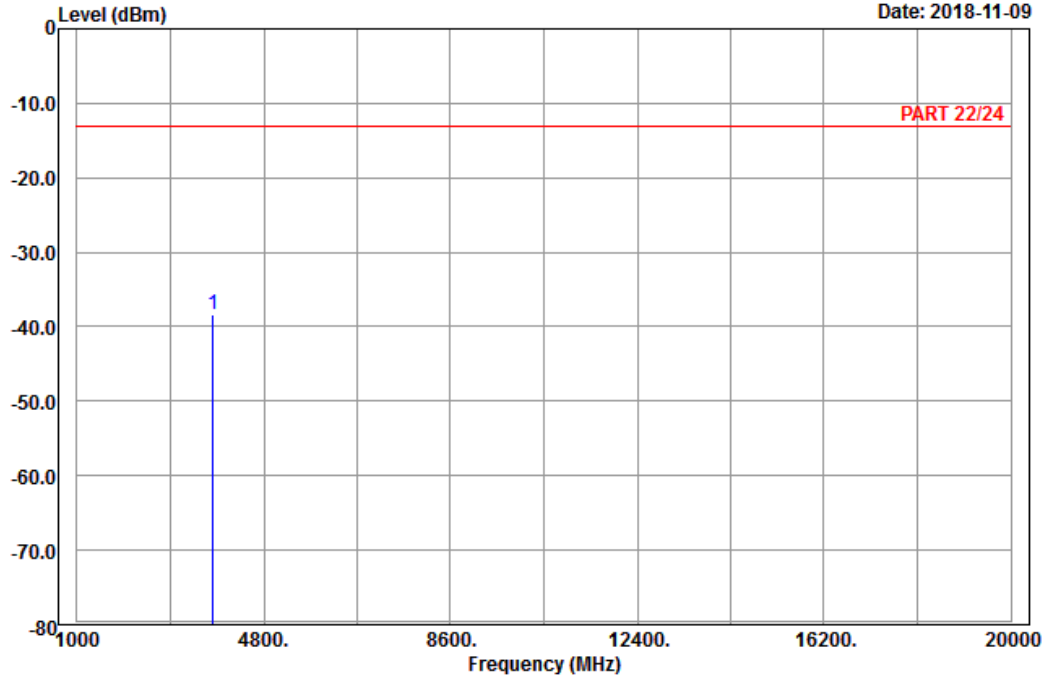


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3760.00	-38.44	-54.58	-13.00	-25.44	16.14	Peak

High Channel

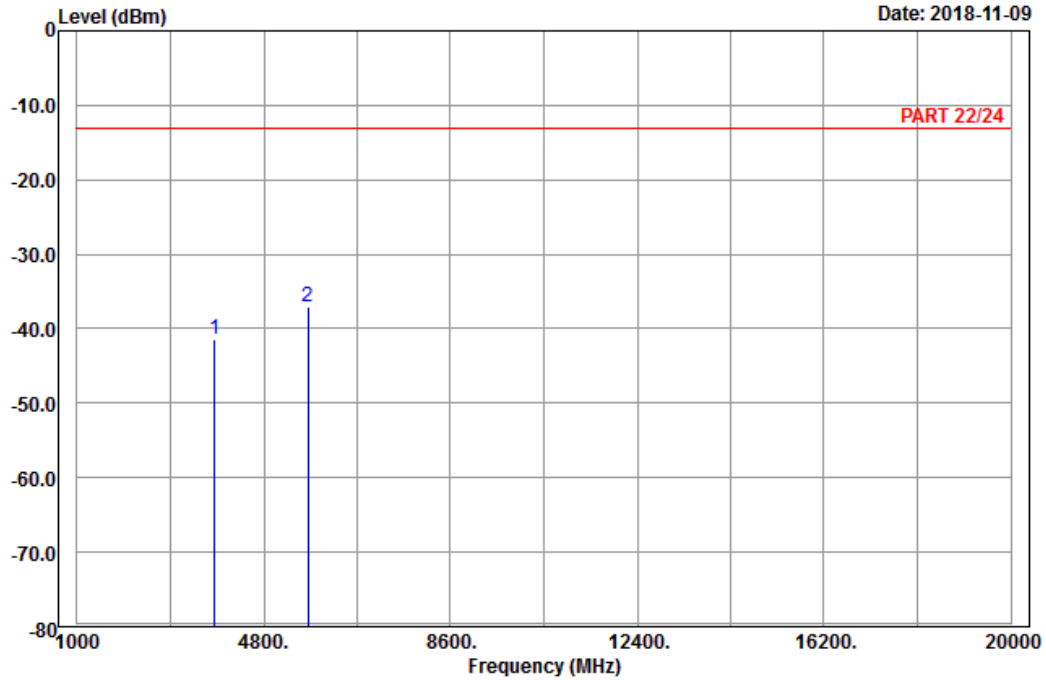


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3800.00	-41.38	-57.79	-13.00	-28.38	16.41	Peak
2 pp	5700.00	-37.13	-57.34	-13.00	-24.13	20.21	Peak

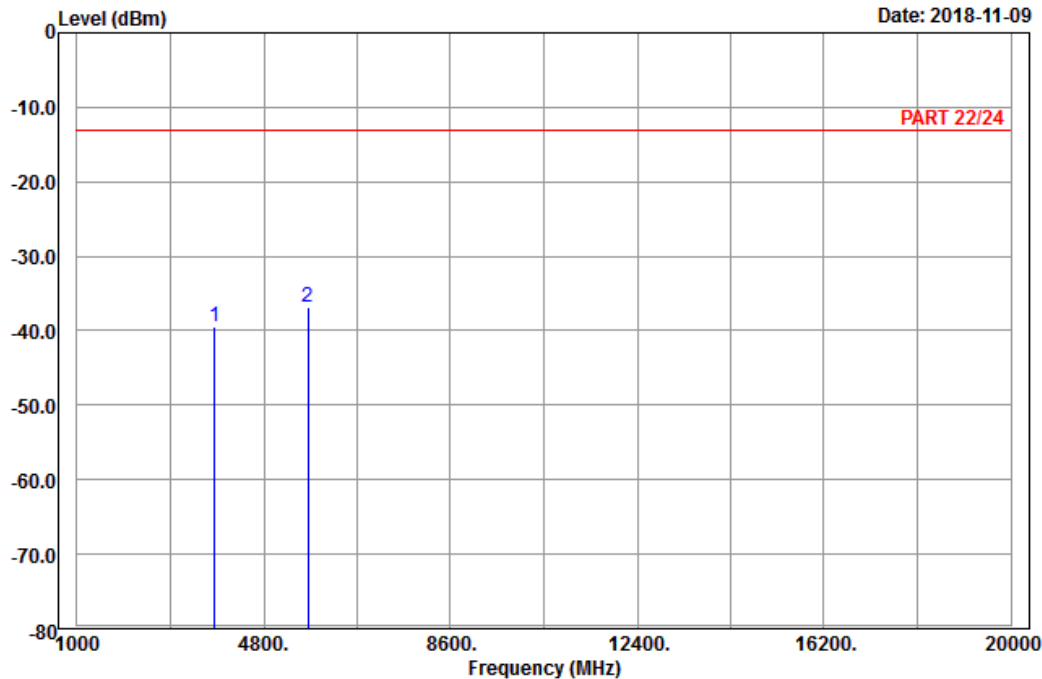


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-09



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3800.00	-39.51	-55.92	-13.00	-26.51	16.41	Peak
2 pp	5700.00	-36.78	-56.99	-13.00	-23.78	20.21	Peak

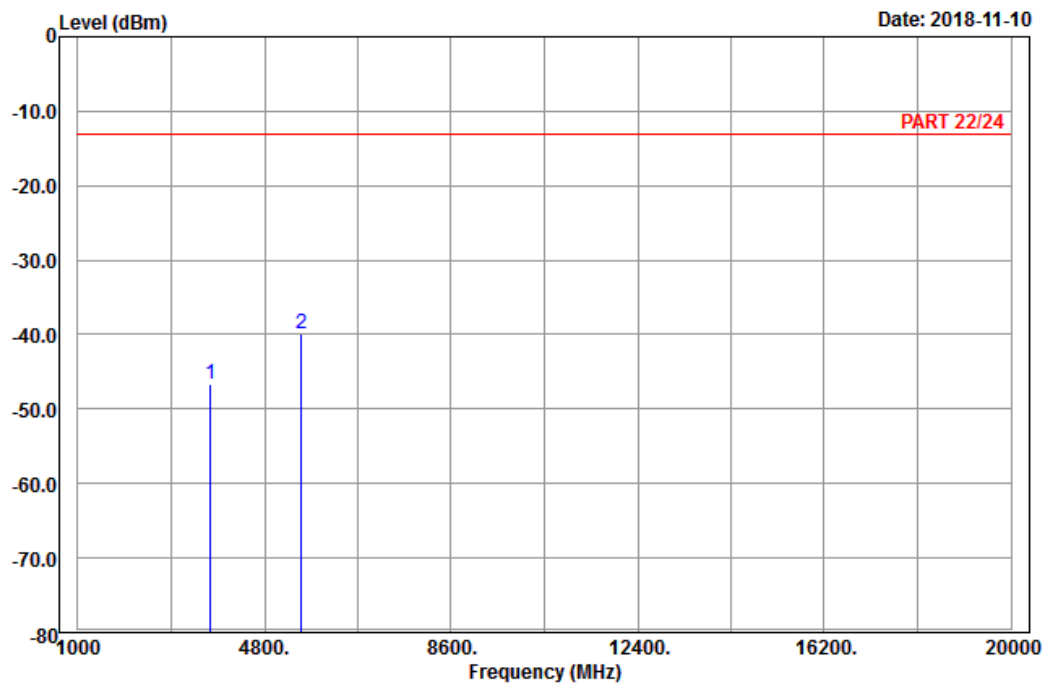
LTE Band 25
Channel Bandwidth: 1.4MHz / QPSK
Low Channel



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_CH26047
Tested by: Karl Lee

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	3701.40	-46.67	-62.55	-13.00	-33.67	15.88	Peak
2 pp	5552.10	-39.81	-60.15	-13.00	-26.81	20.34	Peak

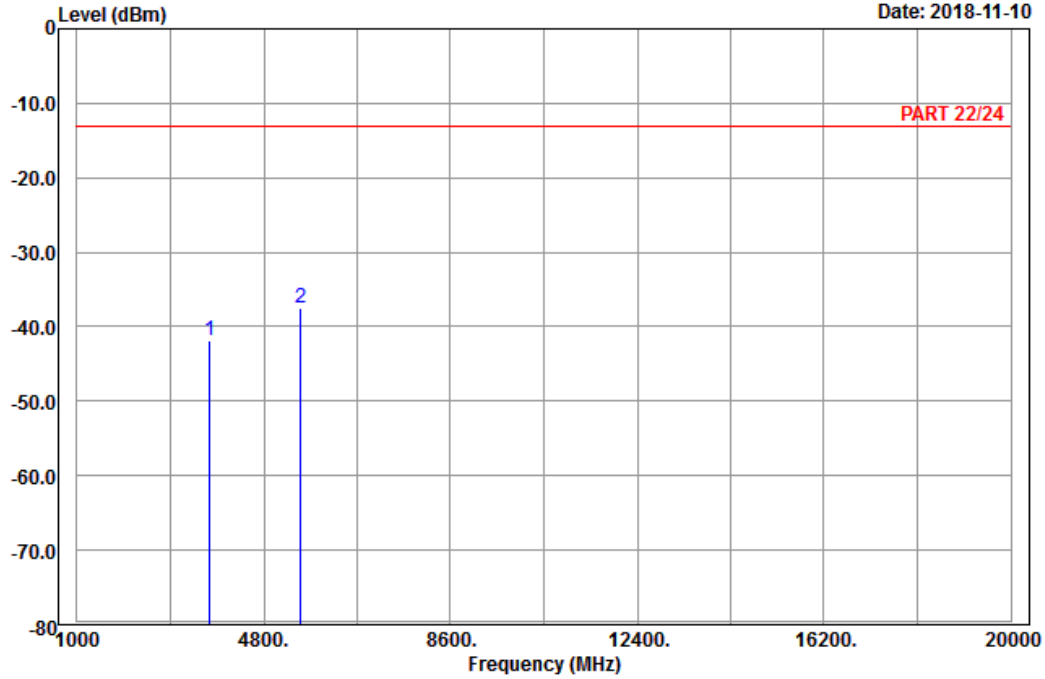


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3701.40	-41.79	-57.67	-13.00	-28.79	15.88	Peak
2 pp	5552.10	-37.39	-57.73	-13.00	-24.39	20.34	Peak

Middle Channel

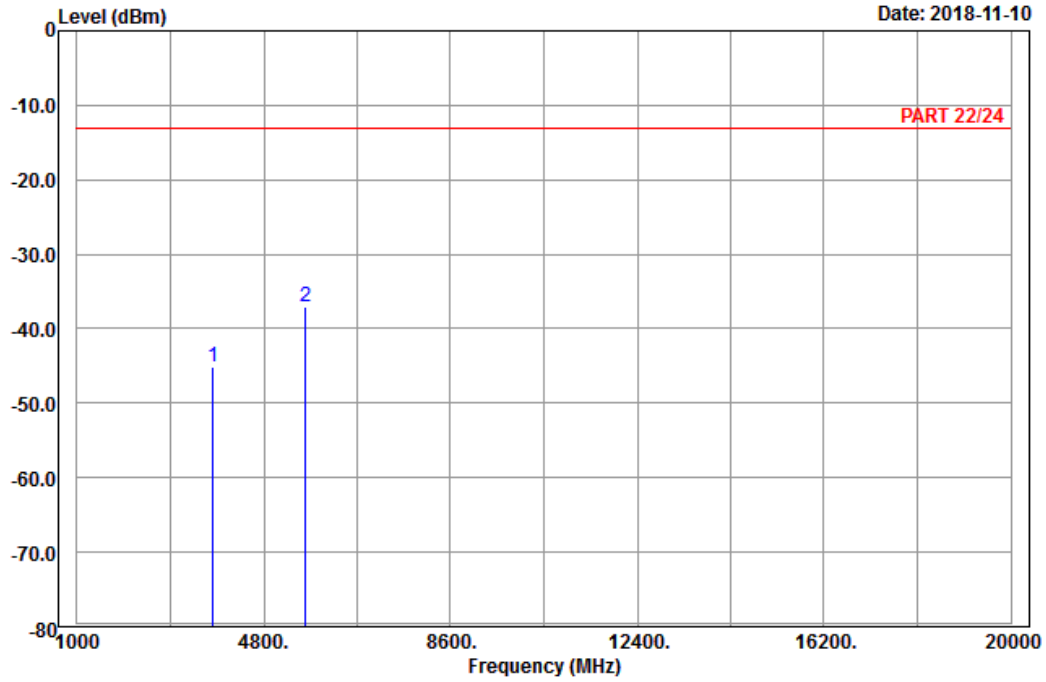


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

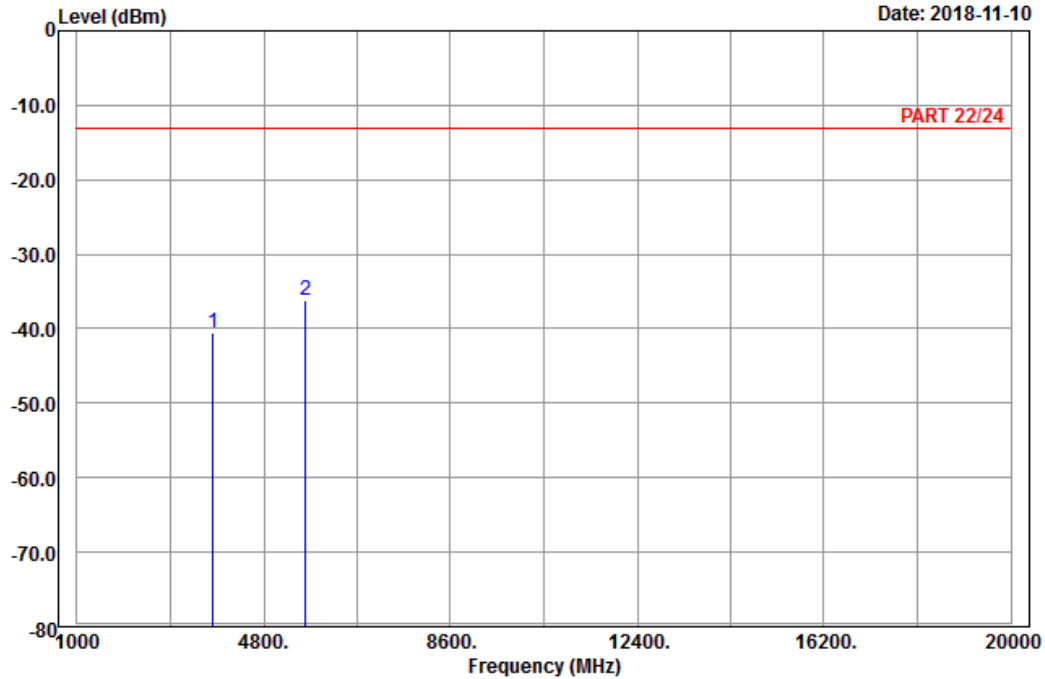
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3765.00	-45.04	-61.27	-13.00	-32.04	16.23	Peak
2 pp	5647.50	-37.13	-57.60	-13.00	-24.13	20.47	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3765.00	-40.59	-56.82	-13.00	-27.59	16.23	Peak
2 pp	5647.50	-36.12	-56.59	-13.00	-23.12	20.47	Peak

High Channel

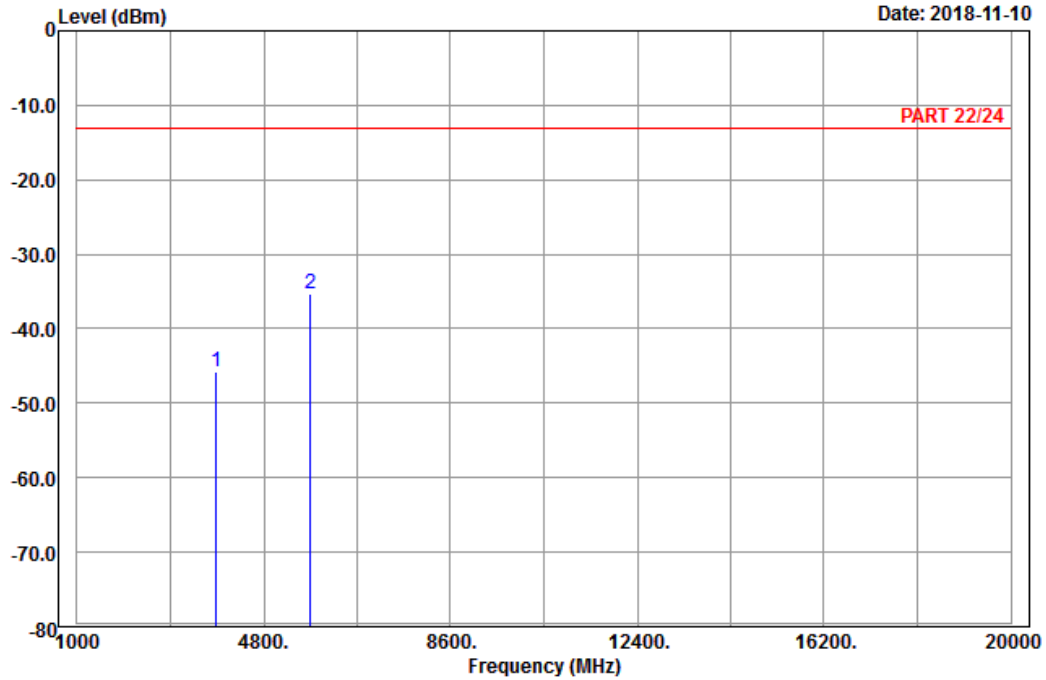


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3828.60	-45.78	-62.28	-13.00	-32.78	16.50	Peak
2 pp	5742.90	-35.31	-55.65	-13.00	-22.31	20.34	Peak

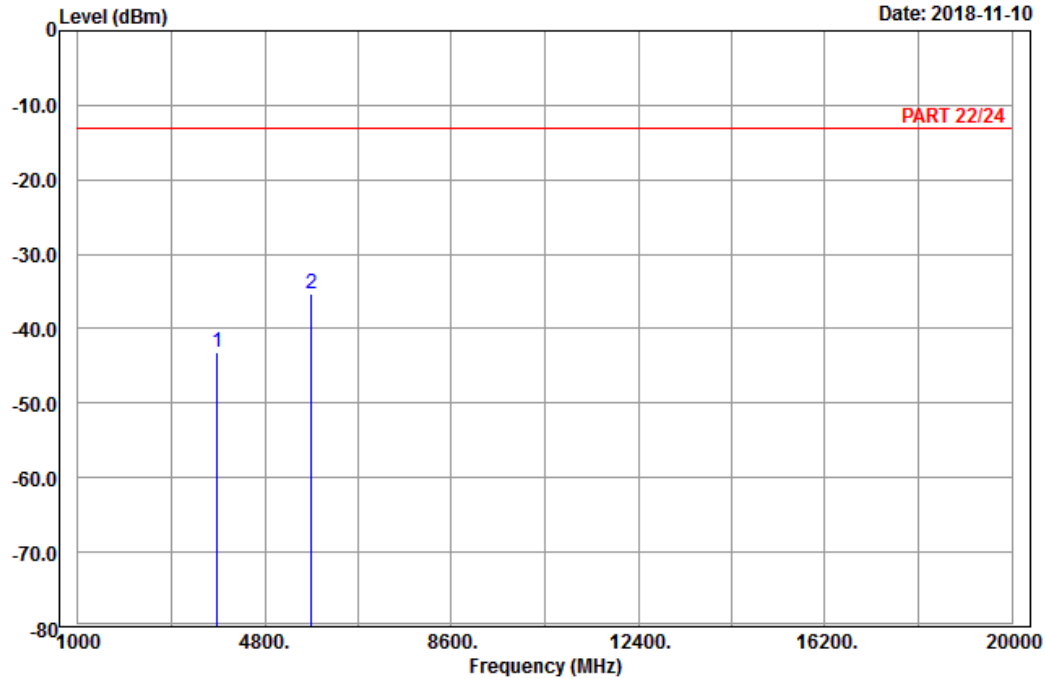


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3828.60	-43.12	-59.62	-13.00	-30.12	16.50	Peak
2 pp	5742.90	-35.29	-55.63	-13.00	-22.29	20.34	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

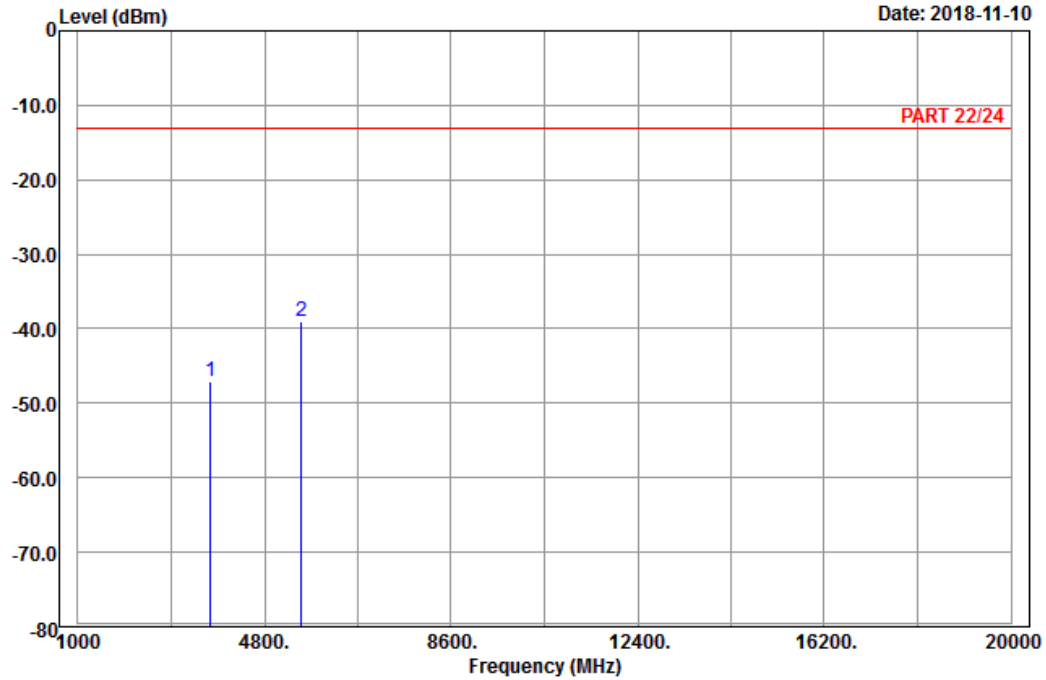


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3705.00	-47.01	-62.89	-13.00	-34.01	15.88	Peak
2	pp 5557.50	-39.05	-59.39	-13.00	-26.05	20.34	Peak

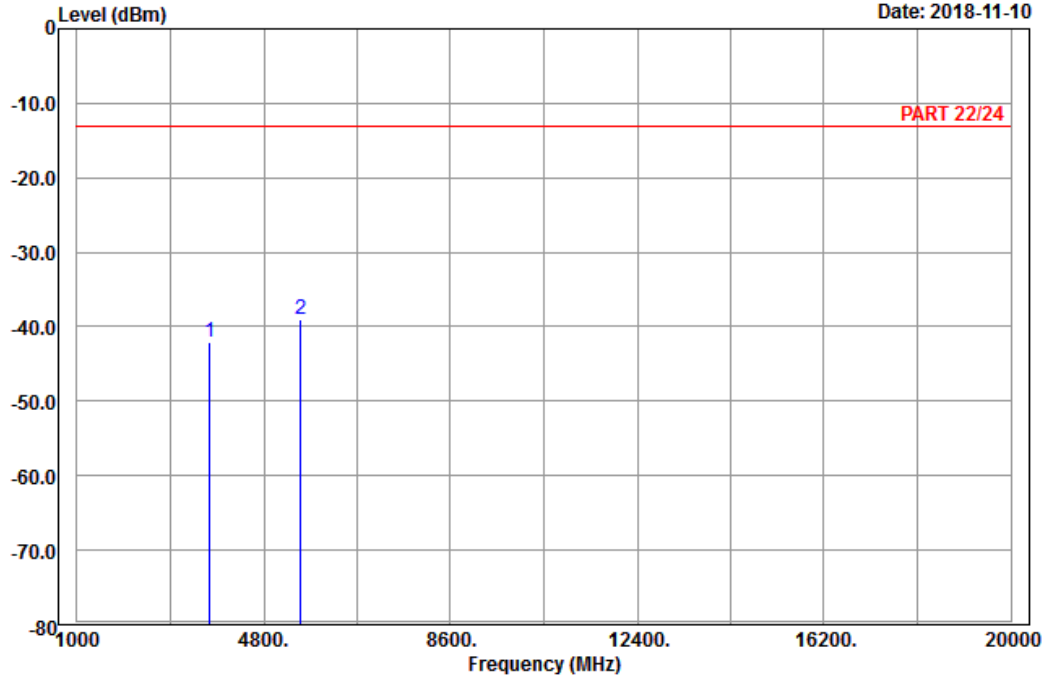


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3705.00	-42.00	-57.88	-13.00	-29.00	15.88	Peak
2 pp	5557.50	-38.97	-59.31	-13.00	-25.97	20.34	Peak

Middle Channel

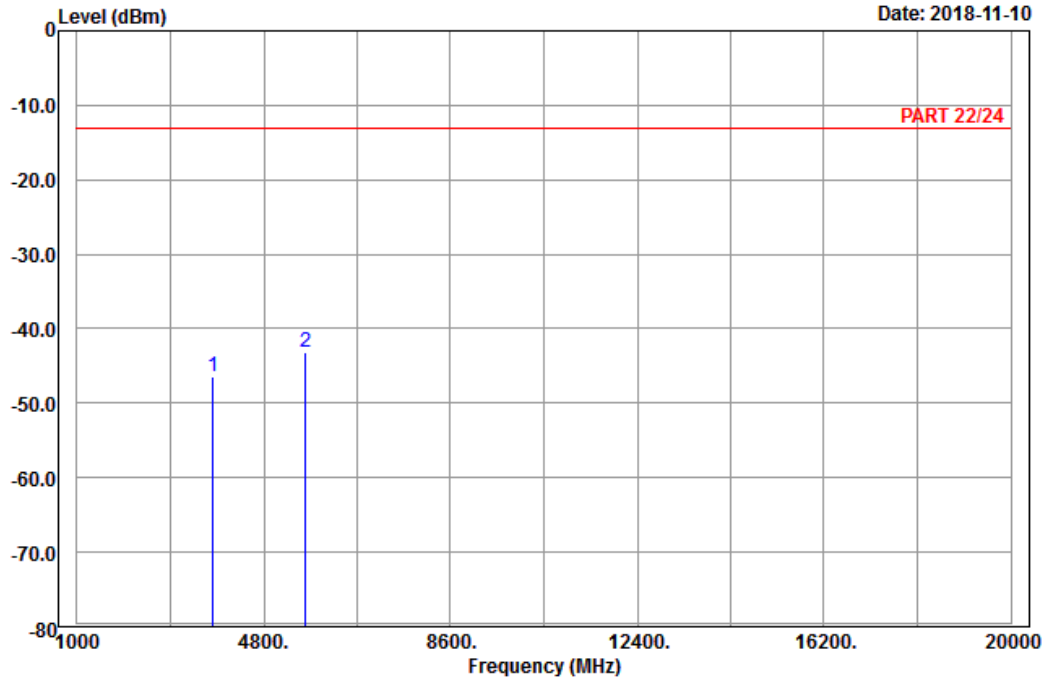


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3765.00	-46.50	-62.73	-13.00	-33.50	16.23	Peak
2 pp	5647.50	-43.16	-63.63	-13.00	-30.16	20.47	Peak

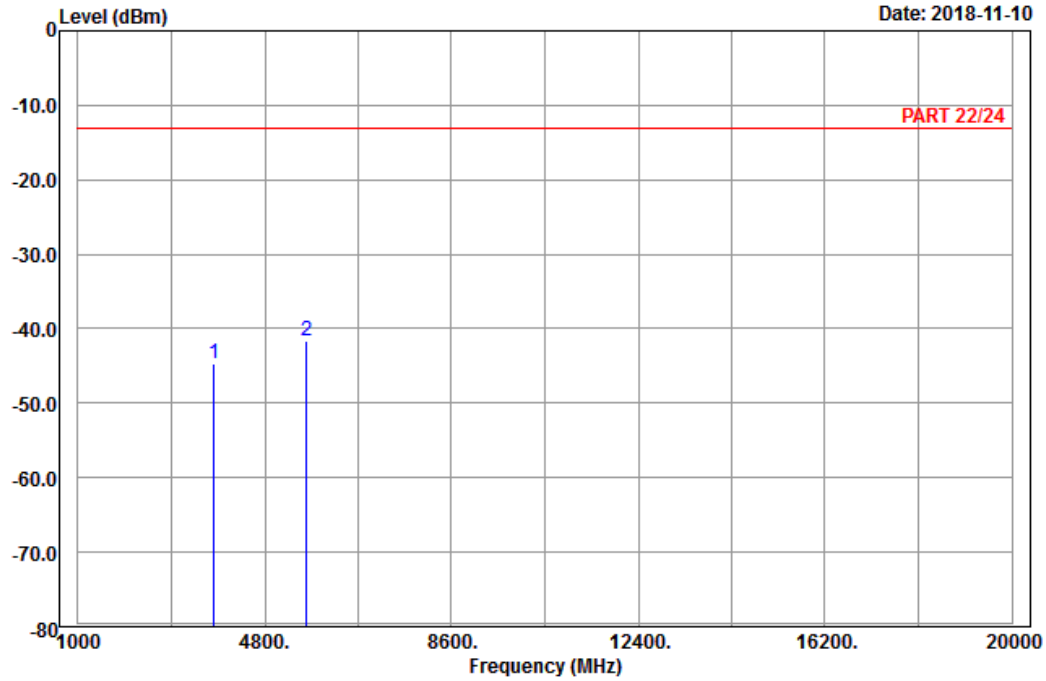


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3765.00	-44.73	-60.96	-13.00	-31.73	16.23	Peak
2 pp	5647.50	-41.60	-62.07	-13.00	-28.60	20.47	Peak

High Channel

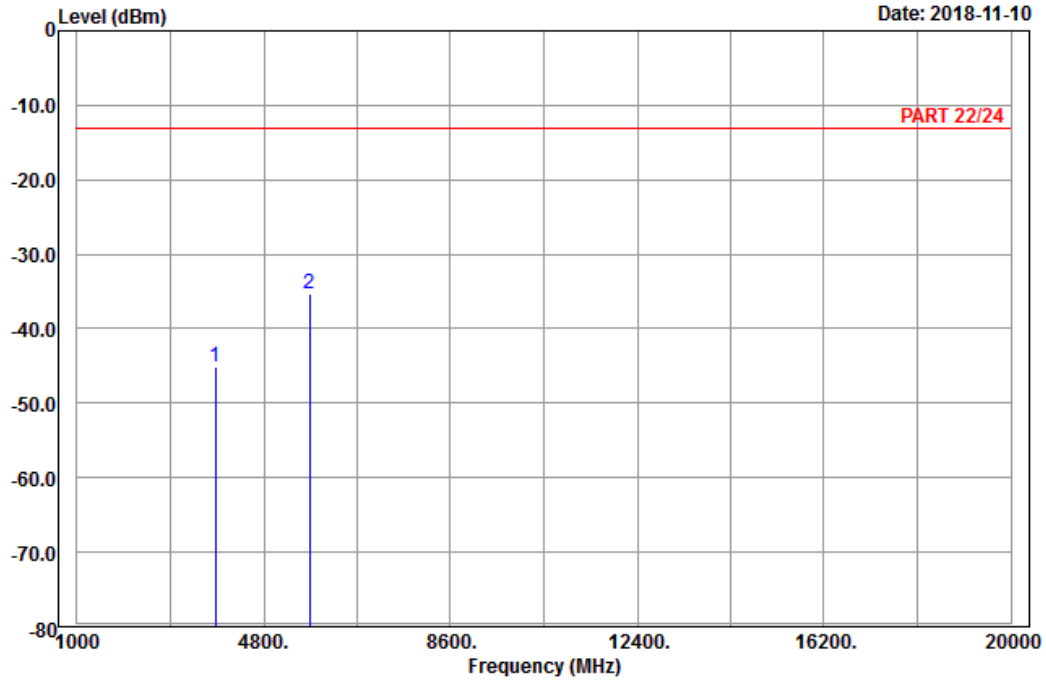


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3825.00	-45.09	-61.59	-13.00	-32.09	16.50	Peak
2 pp	5737.50	-35.37	-55.71	-13.00	-22.37	20.34	Peak

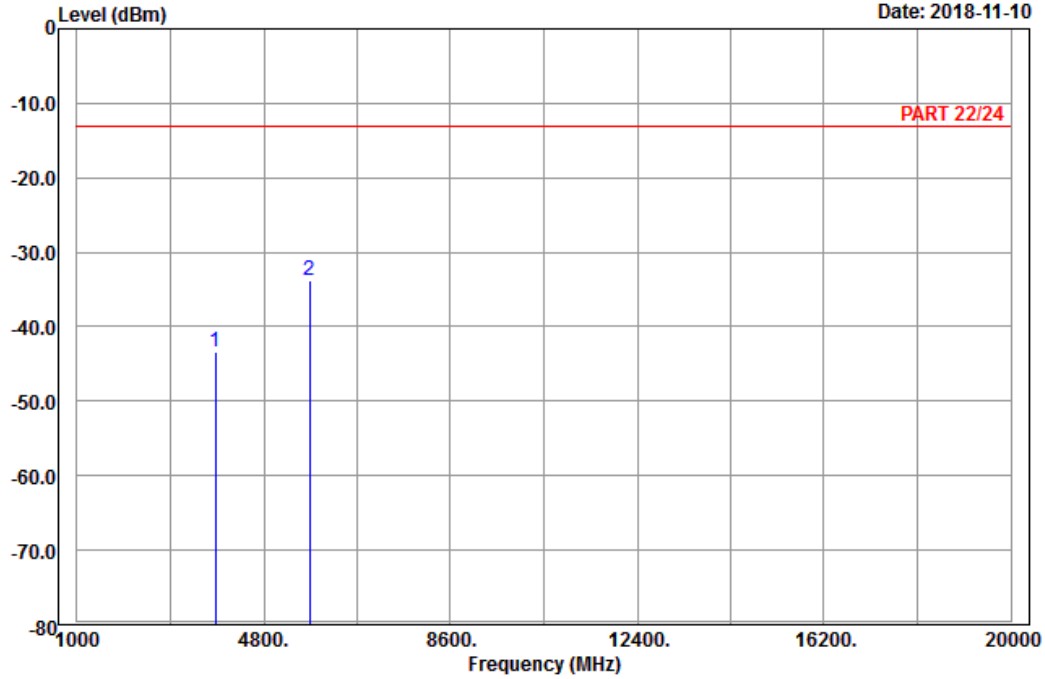


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3825.00	-43.27	-59.77	-13.00	-30.27	16.50	Peak
2 pp	5737.50	-33.80	-54.14	-13.00	-20.80	20.34	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

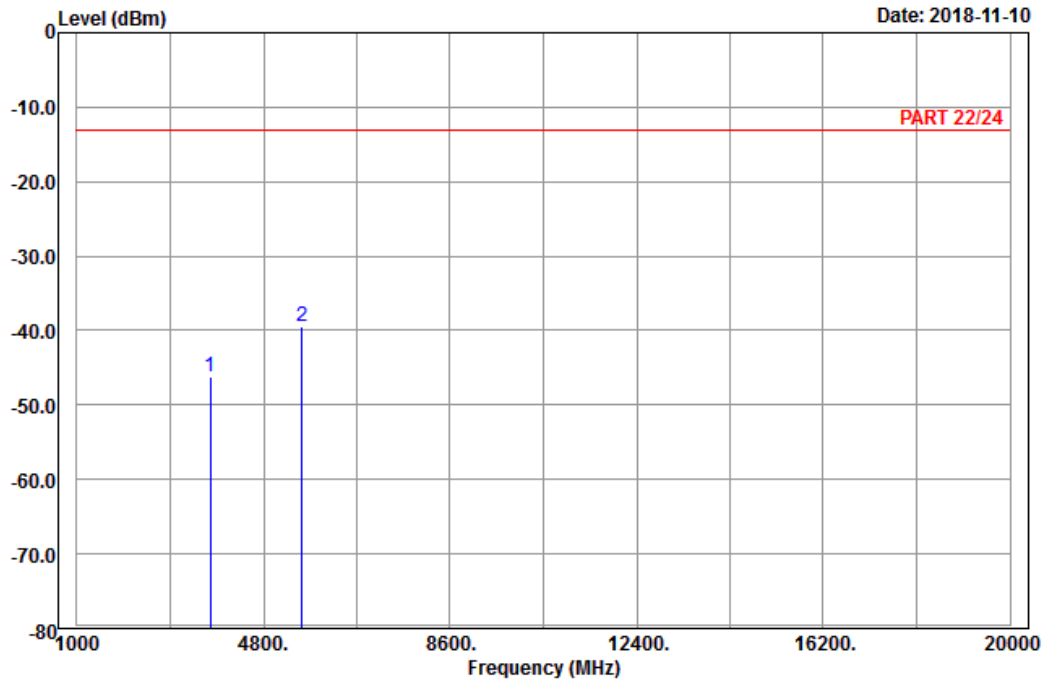


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3720.00	-46.21	-62.18	-13.00	-33.21	15.97	Peak
2	pp 5580.00	-39.50	-59.87	-13.00	-26.50	20.37	Peak

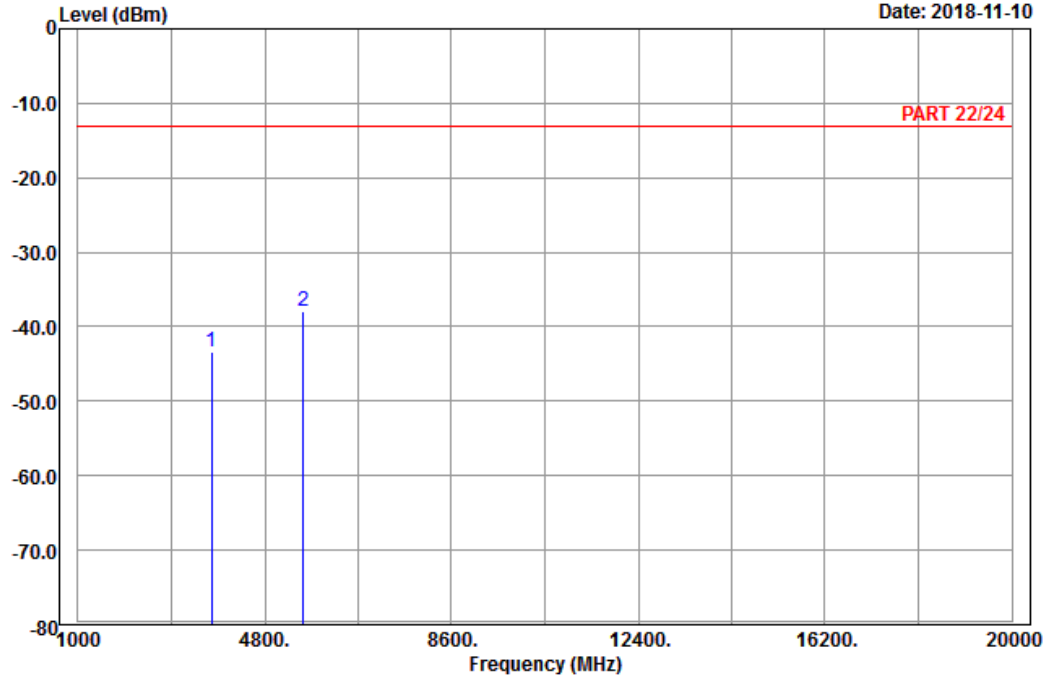


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3720.00	-43.46	-59.43	-13.00	-30.46	15.97	Peak
2 pp	5580.00	-37.82	-58.19	-13.00	-24.82	20.37	Peak

Middle Channel

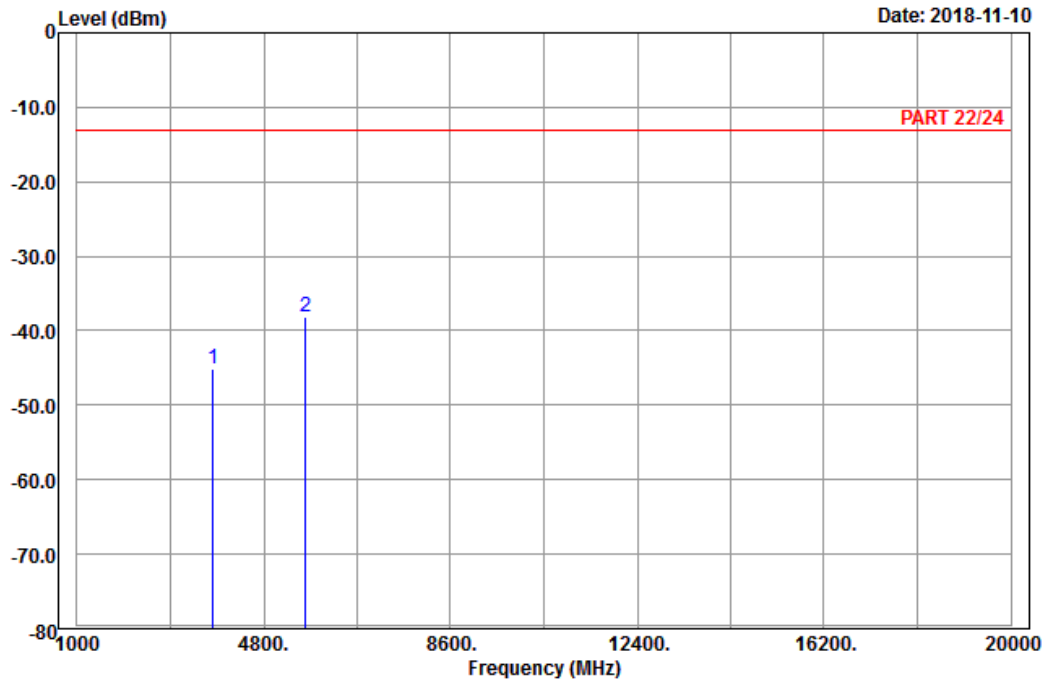


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3765.00	-45.20	-61.43	-13.00	-32.20	16.23	Peak
2 pp	5647.50	-38.25	-58.72	-13.00	-25.25	20.47	Peak

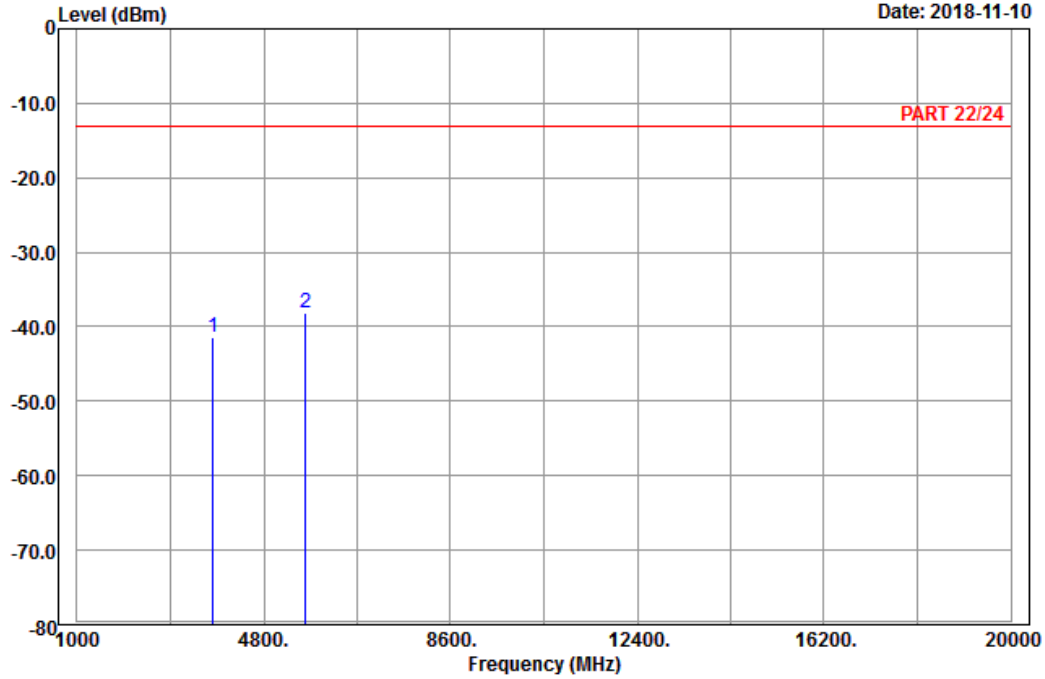


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3765.00	-41.46	-57.69	-13.00	-28.46	16.23	Peak
2 pp	5647.50	-38.16	-58.63	-13.00	-25.16	20.47	Peak

High Channel

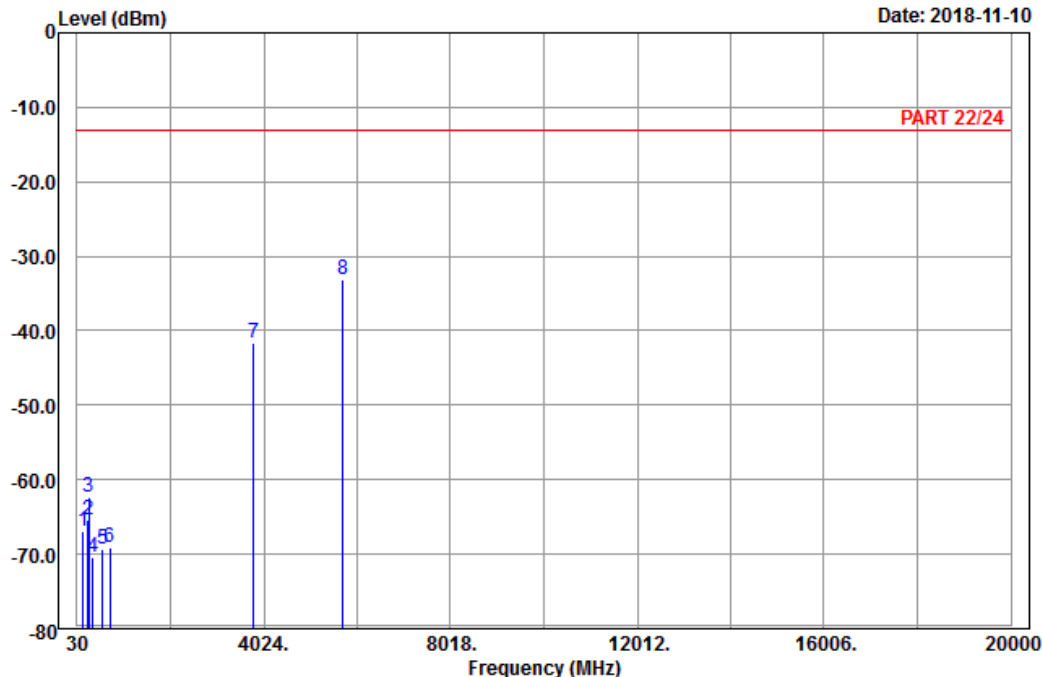


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2018-11-10



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 25_Link_CH26590
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	156.36	-66.91	-59.13	-13.00	-53.91	-7.78	Peak
2	268.68	-65.46	-59.78	-13.00	-52.46	-5.68	Peak
3	278.67	-62.38	-56.62	-13.00	-49.38	-5.76	Peak
4	365.10	-70.39	-65.79	-13.00	-57.39	-4.60	Peak
5	575.10	-69.27	-68.65	-13.00	-56.27	-0.62	Peak
6	738.20	-69.02	-67.93	-13.00	-56.02	-1.09	Peak
7	3810.00	-41.59	-58.00	-13.00	-28.59	16.41	Peak
8 pp	5715.00	-33.20	-53.47	-13.00	-20.20	20.27	Peak

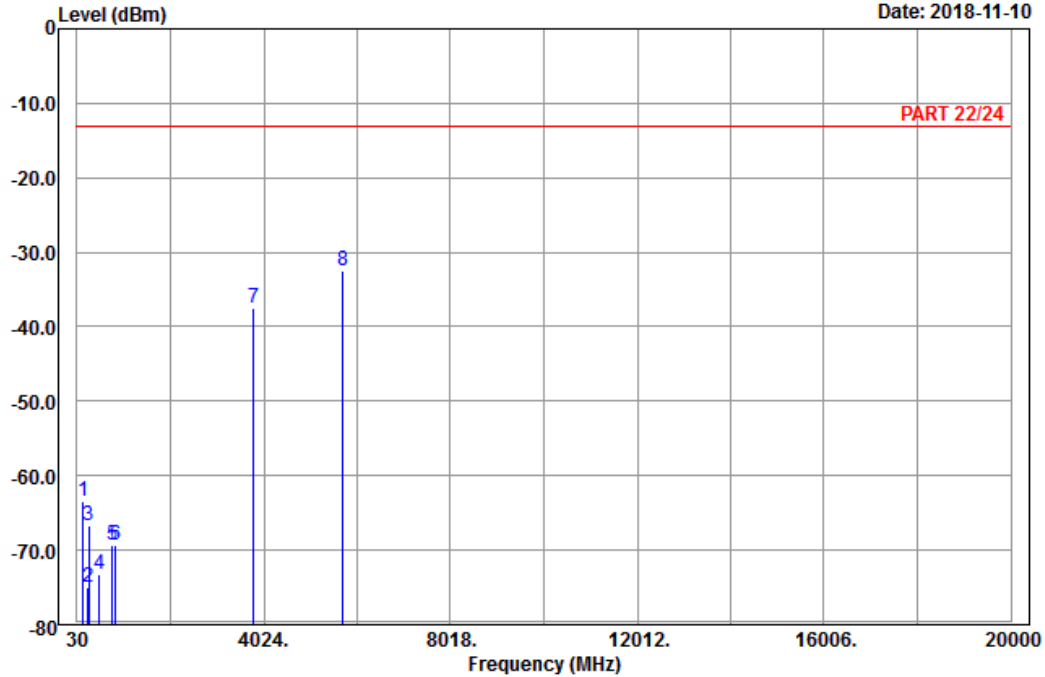


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2018-11-10



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

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	168.24	-63.42	-56.62	-13.00	-50.42	-6.80	Peak
2	257.88	-75.01	-69.43	-13.00	-62.01	-5.58	Peak
3	280.56	-66.66	-60.88	-13.00	-53.66	-5.78	Peak
4	507.20	-73.34	-68.55	-13.00	-60.34	-4.79	Peak
5	783.70	-69.33	-70.25	-13.00	-56.33	0.92	Peak
6	846.70	-69.37	-70.85	-13.00	-56.37	1.48	Peak
7	3810.00	-37.40	-53.81	-13.00	-24.40	16.41	Peak
8 pp	5715.00	-32.57	-52.84	-13.00	-19.57	20.27	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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