Partial FCC Test Report

(PART 22)

Report No.:	RFBHPY-WTW-P20110791
FCC ID:	A4C01007A
Test Model:	LE910C1-NS
Received Date:	Nov. 20, 2020
Test Date:	Nov. 21, 2020 ~ Nov. 23, 2020
Issued Date:	Dec. 07, 2020
Applicant:	RM Acquisition LLC
Address:	8770 W. Bryn Mawr Avenue Chicago, Illinois 60631
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location (1):	No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Testing Laboratory
2021

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Release Control Record

Issue No.	Description	Date Issued
RFBHPY-WTW-P20110791	Original Release	Dec. 07, 2020

1 Certificate of Conformity

Product:	LTE Module
Brand:	Telit
Test Model:	LE910C1-NS
Sample Status:	Identical Prototype
Applicant:	RM Acquisition LLC
Test Date:	Nov. 21, 2020 ~ Nov. 23, 2020
Standards:	FCC Part 22, Subpart H

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

Prepared by : Lena Wang , **Date:** Dec. 07, 2020

Lena Wang / Specialist

Approved by : , **Date:** Dec. 07, 2020

Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	**Test Item**	**Result**	**Remarks**
2.1046 22.913 (a)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to note
22.913 (d)	Peak to Average Ratio	N/A	Refer to note
2.1055 22.355	Frequency Stability	N/A	Refer to note
2.1049	Occupied Bandwidth	N/A	Refer to note
22.917	Band Edge Measurements	N/A	Refer to note
2.1051 22.917	Conducted Spurious Emissions	N/A	Refer to note
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -11.37 dB at 1663.00 MHz.

Note:

1. This report is a partial report. Only Effective radiated power, Conducted power and Radiated Spurious Emissions were verified and recorded in this report. Other testing data please refer to the original TELIT report no.: FG740703P22 and FG740703P22 -1(LTE Module, Brand: Telit, Model: LE910C1-NS, FCC ID: RI7LE910C1NS).
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	**Frequency**	**Expanded Uncertainty (k=2) (±)**
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 16, 2020	Apr. 15, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
			Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
Fixed Attenuator WORKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
MXG Vector signal generator Agilent	N5182B	MY53050430	Dec. 02, 2019	Dec. 01, 2020
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier EMCI	EMC001340	980201	Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 330H	980112	Oct. 07, 2020	Oct. 06, 2021
Power Meter Anritsu	ML2495A	1012010	Sep. 01, 2020	Aug. 31, 2021
Power Sensor Anritsu	MA2411B	1315050	Sep. 01, 2020	Aug. 31, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	171005	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 25, 2019	Dec. 24, 2020

Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 09, 2020	Sep. 08, 2021
DC Power Supply Keysight	U8002A	MY56330015	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 10.

3 General Information

3.1 General Description of EUT

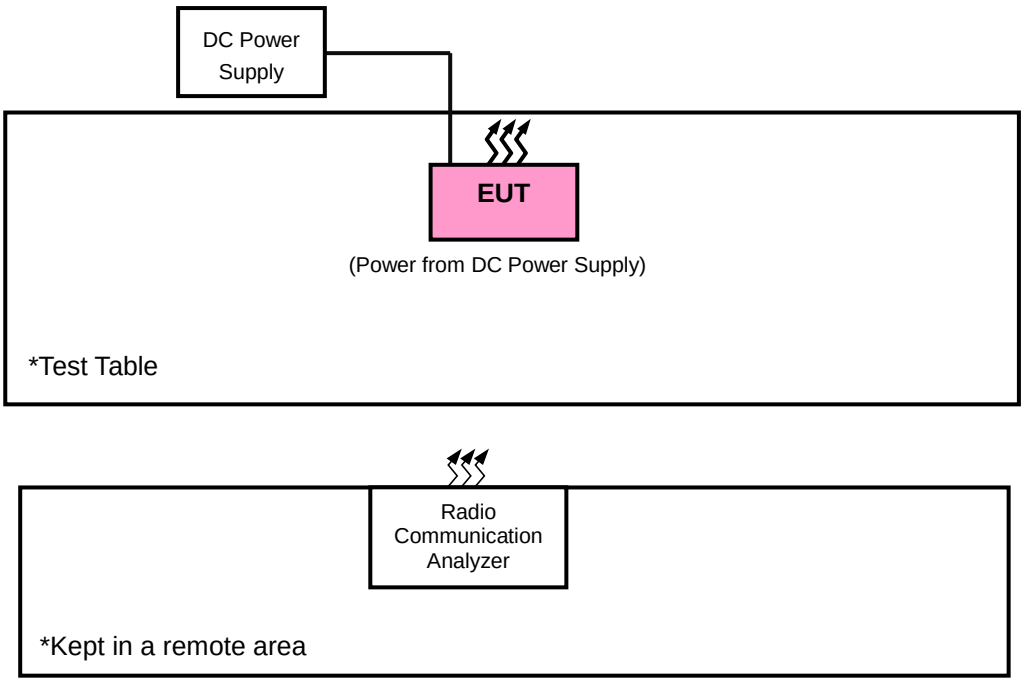
Product	LTE Module	
Brand	Telit	
Test Model	LE910C1-NS	
Status of EUT	Identical Prototype	
Power Supply Rating	12 or 24 Vdc (DC Power Supply)	
Modulation Type	LTE	QPSK, 16QAM
Frequency Range	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 26 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 26 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 26 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 15 MHz)	831.5 ~ 841.5 MHz
Max. ERP Power	LTE 5 (Channel Bandwidth: 1.4 MHz)	136.46 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	139.00 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	140.93 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	143.22 mW
	LTE 26 (Channel Bandwidth: 1.4 MHz)	129.12 mW
	LTE 26 (Channel Bandwidth: 3 MHz)	130.02 mW
	LTE 26 (Channel Bandwidth: 5 MHz)	132.43 mW
	LTE 26 (Channel Bandwidth: 10 MHz)	133.66 mW
	LTE 26 (Channel Bandwidth: 15 MHz)	139.96 mW
Antenna Type	Dipole Antenna with -1.73 dBi gain	
Accessory Device	N/A	
Data Cable Supplied	N/A	

Note:

1. This report is prepared for FCC class II permissive change. This report is a partial report. Only Effective radiated power, Conducted power and Radiated Spurious Emissions were verified and recorded in this report. Other testing data please refer to the original TELIT report no.: FG740703P22 and FG740703P22 -1(LTE Module, Brand: Telit, Model: LE910C1-NS, FCC ID: RI7LE910C1NS).
2. The EUT was installed in E-log and Fleet Management Device (Brand: Rand McNally, Model: DC210).
3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test> & <E.R.P. Test>



3.2.1 Description of Support Units

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

No.	Product	Brand	Model No.	Serial No.	FCC ID
A	DC power supply	Keysight	U8002A	MY56330015	N/A
B	Radio Communication Analyzer	Anritsu	MT8820C	6201010284	N/A

No.	Signal Cable Description Of The Above Support Units
1.	DC Cable: 2.38m

Note:

1. All power cords of the above support units are non-shielded (1.8m).

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports.
The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

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

LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only ERP had been tested under QPSK, 16QAM mode, the other items were performed under QPSK mode only.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

LTE Band 26

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

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only ERP had been tested under QPSK, 16QAM mode, the other items were performed under QPSK mode only.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	12 Vdc	Tim Chen
Radiated Emission	25 deg. C, 65 % RH	12 Vdc	Tim Chen

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 and references

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

Test Standard:
FCC 47 CFR Part 2
FCC 47 CFR Part 22
ANSI 63.26-2015

Note: All test items have been performed and recorded as per the above standards.

References Test Guidance:
KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI/TIA/EIA-603-E 2016

Note: All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

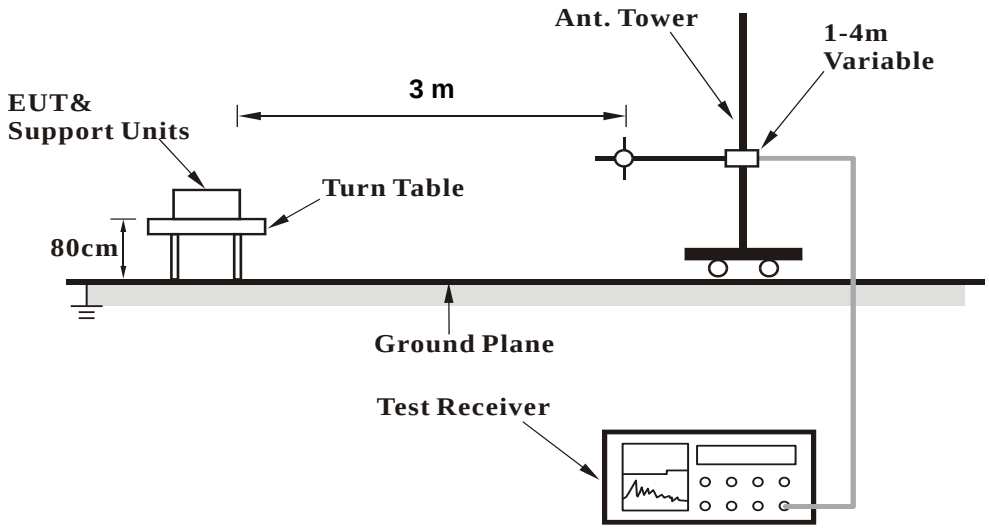
a. All measurements were done at low, middle and high operational frequency range. RBW is 1.4 MHz、5 MHz、10 MHz、15 MHz for LTE mode, and VBW ≥ 3 x RBW.
b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 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. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

Conducted Power Measurement:

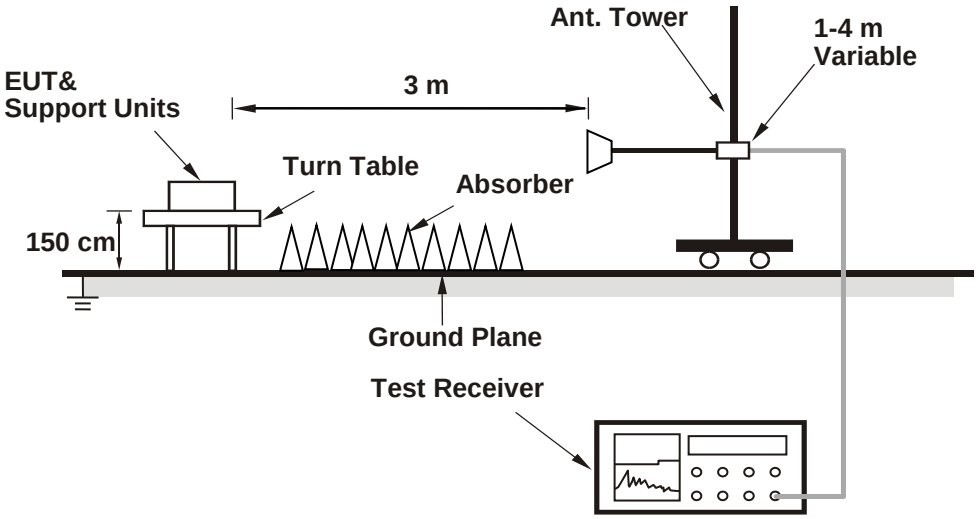
The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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)

LTE Band 5															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600				Channel		20425	20525	20625	
		Frequency (MHz)		829.0	836.5	844.0				Frequency (MHz)		826.5	836.5	846.5	
10M	QPSK	1	0	22.71	22.68	22.47	0	5M	QPSK	1	0	22.63	22.89	22.52	0
		1	24	22.80	23.30	22.73	0			1	12	22.57	23.17	22.58	0
		1	49	22.91	22.87	22.11	0			1	24	22.18	22.90	22.77	0
		25	0	21.47	21.61	21.53	1			12	0	21.48	21.68	21.52	1
		25	12	21.45	21.72	21.68	1			12	6	21.24	22.06	21.65	1
		25	24	21.40	21.74	21.77	1			12	11	21.57	21.98	21.69	1
		50	0	21.44	21.70	21.61	1			25	0	21.52	21.88	21.82	1
	16QAM	1	0	21.35	21.91	21.94	1		16QAM	1	0	21.28	21.82	21.74	1
		1	24	20.73	22.61	22.24	1			1	12	21.51	21.93	21.95	1
		1	49	21.69	21.89	21.59	1			1	24	21.34	21.93	21.72	1
		27	0	20.33	20.81	20.73	2			12	0	20.28	20.60	20.84	2
		27	12	20.59	20.85	20.88	2			12	6	20.57	20.83	20.72	2
		27	23	20.46	20.76	20.71	2			12	11	20.59	20.99	20.68	2
										25	0	20.52	20.98	20.59	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		20415	20525	20635				Channel		20407	20525	20643	
		Frequency (MHz)		825.5	836.5	847.5				Frequency (MHz)		824.7	836.5	848.3	
3M	QPSK	1	0	22.29	22.96	22.53	0	1.4M	QPSK	1	0	22.33	22.77	22.50	0
		1	7	22.62	23.09	22.77	0			1	2	22.53	22.87	22.48	0
		1	14	22.49	23.05	22.59	0			1	5	22.18	22.88	22.30	0
		8	0	21.36	22.00	21.77	1			3	0	22.22	22.68	22.23	0
		8	4	21.29	21.96	21.85	1			3	1	22.24	22.78	22.39	0
		8	7	21.45	21.72	21.85	1			3	2	22.40	22.94	22.41	0
		15	0	21.47	21.79	21.54	1			6	0	21.03	21.76	21.34	1
	16QAM	1	0	21.53	21.53	21.23	1		16QAM	1	0	21.48	21.58	21.24	1
		1	7	21.87	21.96	21.46	1			1	2	21.26	21.82	21.53	1
		1	14	21.32	21.52	21.18	1			1	5	20.97	21.66	21.29	1
		8	0	20.14	20.48	20.54	2			3	0	21.12	21.44	21.42	1
		8	4	20.55	20.63	20.77	2			3	1	21.55	21.77	21.63	1
		8	7	20.38	20.69	20.81	2			3	2	21.37	21.77	21.40	1
		15	0	20.55	20.53	20.64	2			6	0	20.13	20.31	20.30	2

LTE Band 26

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26865	26915	26965	
		Frequency (MHz)		831.5	836.5	841.5	
15M	QPSK	1	0	22.44	23.07	22.77	0
		1	37	23.28	23.07	22.74	0
		1	74	22.98	22.64	22.20	0
		36	0	21.56	21.47	21.62	1
		36	18	21.60	21.93	21.91	1
		36	37	21.79	21.80	21.74	1
		75	0	21.43	21.79	21.64	1
	16QAM	1	0	22.13	22.18	21.75	1
		1	37	22.14	22.33	22.02	1
		1	74	22.45	21.65	21.31	1
		27	0	20.65	20.82	21.08	2
		27	12	20.83	20.92	21.09	2
		27	23	20.76	21.02	20.84	2

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26840	26915	26990	
		Frequency (MHz)		829.0	836.5	844.0	
10M	QPSK	1	0	22.57	22.79	22.74	0
		1	24	23.07	22.98	22.73	0
		1	49	22.65	22.96	22.61	0
		25	0	21.68	21.75	21.66	1
		25	12	21.63	21.68	21.45	1
		25	24	21.63	21.80	21.74	1
		50	0	21.80	21.93	21.89	1
	16QAM	1	0	22.20	22.14	21.50	1
		1	24	22.28	22.06	21.48	1
		1	49	22.17	20.74	21.34	1
		25	0	20.86	20.92	20.75	2
		25	12	21.01	20.88	20.98	2
		25	23	20.51	20.98	20.46	2

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26815	26915	27015	
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	22.77	22.75	22.39	0
		1	12	22.83	23.06	22.64	0
		1	24	22.45	22.73	22.59	0
		12	0	22.67	21.68	21.66	1
		12	6	21.55	21.77	21.64	1
		12	13	21.61	22.01	21.68	1
		25	0	21.71	21.83	21.79	1
	16QAM	1	0	21.69	21.84	21.37	1
		1	12	22.04	22.07	21.23	1
		1	24	21.52	21.80	21.37	1
		12	0	20.90	20.61	20.46	2
		12	6	20.84	21.04	20.27	2
		12	13	20.69	21.28	20.57	2
		25	0	20.76	20.70	20.53	2

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26805	26915	27025	
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	22.95	22.57	22.63	1
		1	7	22.78	22.81	22.58	1
		1	14	22.79	22.93	22.65	1
		8	0	21.72	21.65	21.58	3
		8	4	21.84	21.72	21.83	3
		8	7	21.54	21.81	21.85	3
		15	0	21.80	21.65	21.86	6
	16QAM	1	0	22.31	22.17	22.01	1
		1	7	22.01	22.68	21.56	1
		1	14	21.90	22.51	20.51	1
		8	0	20.58	20.71	20.79	2
		8	4	20.67	20.94	20.67	2
		8	7	20.59	21.16	20.87	2
		15	0	20.59	20.65	20.97	2

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		26797	26915	27033	
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	22.81	22.85	22.77	0
		1	2	23.16	23.05	20.87	0
		1	5	22.66	23.02	23.01	0
		3	0	23.03	22.63	22.54	0
		3	1	22.85	22.90	22.81	0
		3	2	22.68	22.87	22.73	0
		6	0	21.76	21.59	21.85	1
	16QAM	1	0	22.15	22.06	21.57	1
		1	2	22.23	22.34	22.14	1
		1	5	22.09	22.15	21.72	1
		3	0	21.85	22.11	21.68	1
		3	1	21.86	21.93	21.97	1
		3	2	21.96	22.16	22.02	1
		6	0	20.84	21.01	20.64	2

ERP Power (dBm)

LTE Band 5							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**Reading (dBm)**	**Correction Factor (dB)**	**ERP (dBm)**	**ERP (mW)**	**Polarization (H/V)**
Z	20407	824.7	-11.49	32.62	21.13	129.72	H
	20525	836.5	-11.18	32.52	21.34	136.14	
	20643	848.3	-11.30	32.65	21.35	136.46	
	20407	824.7	-18.56	32.76	14.20	26.30	V
	20525	836.5	-18.07	32.39	14.32	27.04	
	20643	848.3	-18.07	32.54	14.47	27.99	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	20407	824.7	-12.51	32.62	20.11	102.57	H
	20525	836.5	-12.27	32.52	20.25	105.93	
	20643	848.3	-12.36	32.65	20.29	106.91	
	20407	824.7	-19.60	32.76	13.16	20.70	V
	20525	836.5	-19.13	32.39	13.26	21.18	
	20643	848.3	-19.16	32.54	13.38	21.78	

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

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**Reading (dBm)**	**Correction Factor (dB)**	**ERP (dBm)**	**ERP (mW)**	**Polarization (H/V)**
Z	20415	825.5	-11.41	32.62	21.21	132.13	H
	20525	836.5	-11.14	32.52	21.38	137.40	
	20635	847.5	-11.22	32.65	21.43	139.00	
	20415	825.5	-18.48	32.76	14.28	26.79	V
	20525	836.5	-18.00	32.39	14.39	27.48	
	20635	847.5	-17.99	32.54	14.55	28.51	
Channel Bandwidth: 3 MHz / 16QAM							
Z	20415	825.5	-12.46	32.62	20.16	103.75	H
	20525	836.5	-12.19	32.52	20.33	107.89	
	20635	847.5	-12.25	32.65	20.40	109.65	
	20415	825.5	-19.57	32.76	13.19	20.84	V
	20525	836.5	-19.05	32.39	13.34	21.58	
	20635	847.5	-19.08	32.54	13.46	22.18	

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

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**Reading (dBm)**	**Correction Factor (dB)**	**ERP (dBm)**	**ERP (mW)**	**Polarization (H/V)**
Z	20425	826.5	-11.35	32.62	21.27	133.97	H
	20525	836.5	-11.07	32.52	21.45	139.64	
	20625	846.5	-11.16	32.65	21.49	140.93	
	20425	826.5	-18.44	32.76	14.32	27.04	V
	20525	836.5	-17.96	32.39	14.43	27.73	
	20625	846.5	-17.92	32.54	14.62	28.97	
Channel Bandwidth: 5 MHz / 16QAM							
Z	20425	826.5	-12.45	32.62	20.17	103.99	H
	20525	836.5	-12.19	32.52	20.33	107.89	
	20625	846.5	-12.24	32.65	20.41	109.90	
	20425	826.5	-19.43	32.76	13.33	21.53	V
	20525	836.5	-18.98	32.39	13.41	21.93	
	20625	846.5	-19.06	32.54	13.48	22.28	

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

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**Reading (dBm)**	**Correction Factor (dB)**	**ERP (dBm)**	**ERP (mW)**	**Polarization (H/V)**
Z	20450	829.0	-11.32	32.62	21.30	134.90	H
	20525	836.5	-11.04	32.52	21.48	140.60	
	20600	844.0	-11.09	32.65	21.56	143.22	
	20450	829.0	-18.36	32.76	14.40	27.54	V
	20525	836.5	-17.88	32.39	14.51	28.25	
	20600	844.0	-17.89	32.54	14.65	29.17	
Channel Bandwidth: 10 MHz / 16QAM							
Z	20450	829.0	-12.36	32.62	20.26	106.17	H
	20525	836.5	-12.08	32.52	20.44	110.66	
	20600	844.0	-12.13	32.65	20.52	112.72	
	20450	829.0	-19.42	32.76	13.34	21.58	V
	20525	836.5	-18.93	32.39	13.46	22.18	
	20600	844.0	-18.92	32.54	13.62	23.01	

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

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26797	824.7	-11.70	32.62	20.92	123.59	H
	26915	836.5	-11.52	32.52	21.00	125.89	
	27033	848.3	-11.54	32.65	21.11	129.12	
	26797	824.7	-20.56	32.76	12.20	16.60	V
	26915	836.5	-20.08	32.39	12.31	17.02	
	27033	848.3	-20.21	32.54	12.33	17.10	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	26797	824.7	-12.74	32.62	19.88	97.27	H
	26915	836.5	-12.54	32.52	19.98	99.54	
	27033	848.3	-12.57	32.65	20.08	101.86	
	26797	824.7	-21.57	32.76	11.19	13.15	V
	26915	836.5	-21.09	32.39	11.30	13.49	
	27033	848.3	-21.24	32.54	11.30	13.49	

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

LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26805	825.5	-11.62	32.62	21.00	125.89	H
	26915	836.5	-11.44	32.52	21.08	128.23	
	27025	847.5	-11.51	32.65	21.14	130.02	
	26805	825.5	-20.51	32.76	12.25	16.79	V
	26915	836.5	-20.03	32.39	12.36	17.22	
	27025	847.5	-20.13	32.54	12.41	17.42	
Channel Bandwidth: 3 MHz / 16QAM							
Z	26805	825.5	-12.68	32.62	19.94	98.63	H
	26915	836.5	-12.51	32.52	20.01	100.23	
	27025	847.5	-12.54	32.65	20.11	102.57	
	26805	825.5	-21.54	32.76	11.22	13.24	V
	26915	836.5	-21.11	32.39	11.28	13.43	
	27025	847.5	-21.15	32.54	11.39	13.77	

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

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26815	826.5	-11.59	32.62	21.03	126.77	H
	26915	836.5	-11.41	32.52	21.11	129.12	
	27015	846.5	-11.43	32.65	21.22	132.43	
	26815	826.5	-20.48	32.76	12.28	16.90	V
	26919	836.5	-19.99	32.39	12.40	17.38	
	27015	846.5	-20.06	32.54	12.48	17.70	
Channel Bandwidth: 5 MHz / 16QAM							
Z	26815	826.5	-12.60	32.62	20.02	100.46	H
	26915	836.5	-12.48	32.52	20.04	100.93	
	27015	846.5	-12.47	32.65	20.18	104.23	
	26815	826.5	-21.55	32.76	11.21	13.21	V
	26919	836.5	-21.05	32.39	11.34	13.61	
	27015	846.5	-21.13	32.54	11.41	13.84	

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

LTE Band 26							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Z	26840	829.0	-11.56	32.62	21.06	127.64	H
	26915	836.5	-11.33	32.52	21.19	131.52	
	26990	844.0	-11.39	32.65	21.26	133.66	
	26840	829.0	-20.43	32.76	12.33	17.10	V
	26919	836.5	-19.96	32.39	12.43	17.50	
	26990	844.0	-19.99	32.54	12.55	17.99	
Channel Bandwidth: 10 MHz / 16QAM							
Z	26840	829.0	-12.60	32.62	20.02	100.46	H
	26915	836.5	-12.34	32.52	20.18	104.23	
	26990	844.0	-12.40	32.65	20.25	105.93	
	26840	829.0	-21.52	32.76	11.24	13.30	V
	26919	836.5	-20.99	32.39	11.40	13.80	
	26990	844.0	-21.01	32.54	11.53	14.22	

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

LTE Band 26							
Channel Bandwidth: 15 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**Reading (dBm)**	**Correction Factor (dB)**	**ERP (dBm)**	**ERP (mW)**	**Polarization (H/V)**
Z	26865	831.5	-11.52	32.62	21.10	128.82	H
	26915	836.5	-11.30	32.52	21.22	132.43	
	26965	841.5	-11.19	32.65	21.46	139.96	
	26865	831.5	-20.38	32.76	12.38	17.30	V
	26915	836.5	-19.93	32.39	12.46	17.62	
	26965	841.5	-19.95	32.54	12.59	18.16	
Channel Bandwidth: 15 MHz / 16QAM							
Z	26865	831.5	-12.57	32.62	20.05	101.16	H
	26915	836.5	-12.32	32.52	20.20	104.71	
	26965	841.5	-12.34	32.65	20.31	107.40	
	26865	831.5	-21.42	32.76	11.34	13.61	V
	26915	836.5	-20.98	32.39	11.41	13.84	
	26965	841.5	-21.00	32.54	11.54	14.26	

Note: ERP (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

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
b. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:

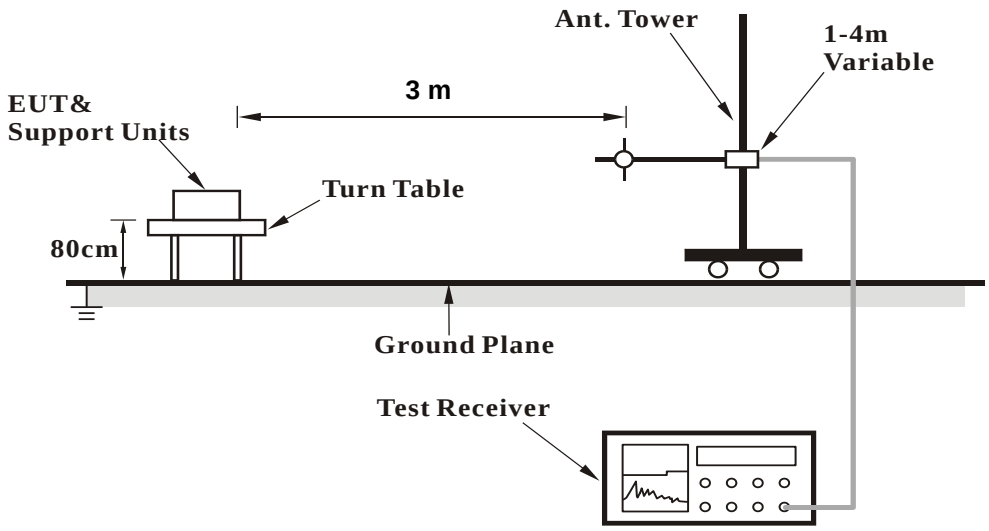
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

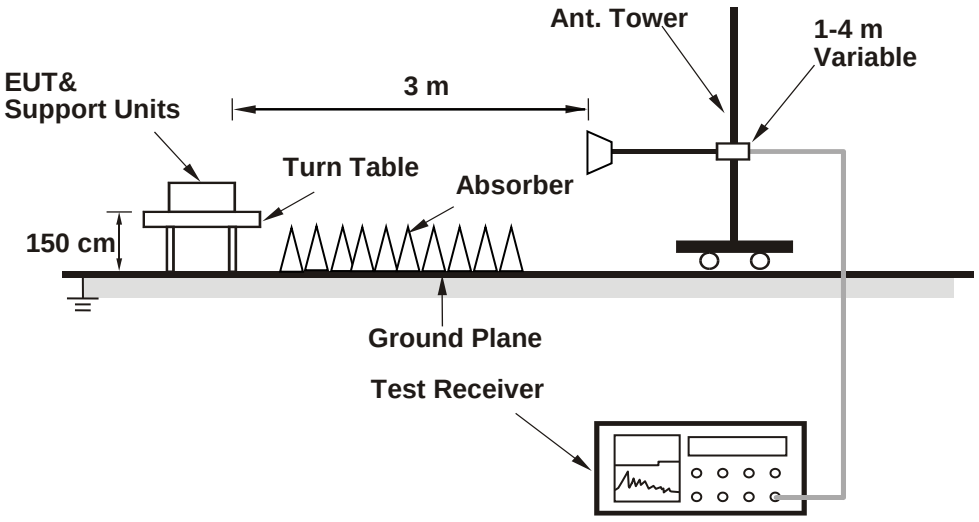
No deviation.

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

LTE Band 5

Channel Bandwidth: 1.4 MHz / QPSK

Low Channel

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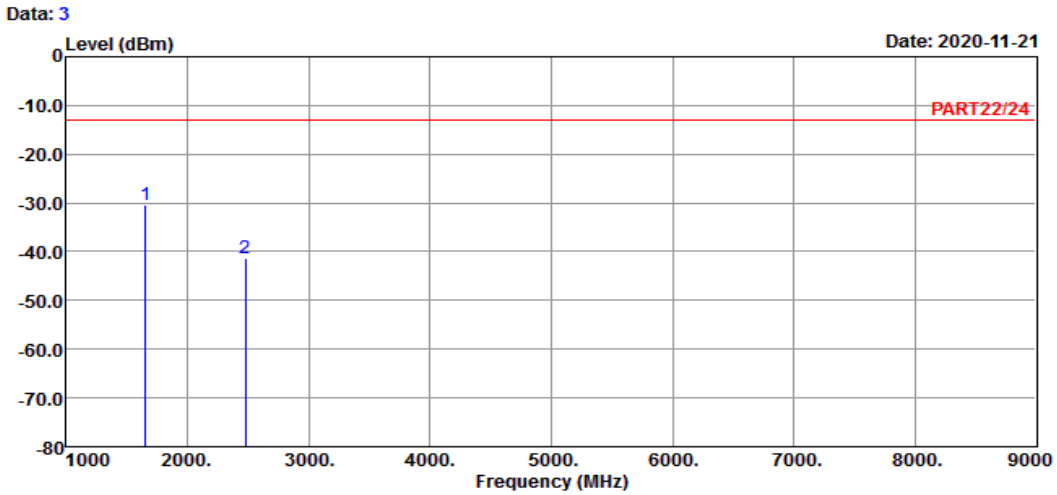
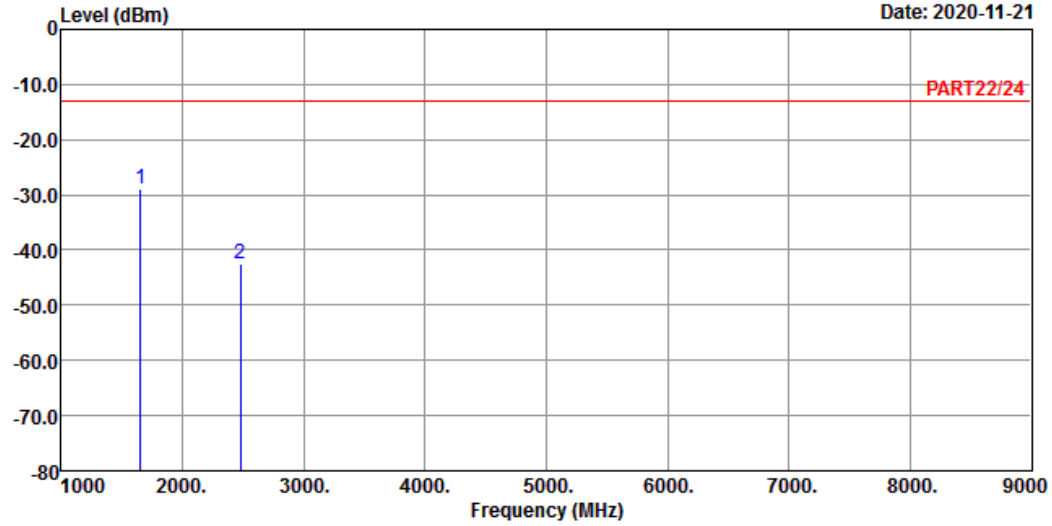


Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_1.4M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1649.40	-30.38	-16.64	-13.00	-13.74	-17.38	Peak
2	2474.10	-41.22	-31.20	-13.00	-10.02	-28.22	Peak

Data: 4



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_1.4M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1649.40	-28.83	-15.09	-13.00	-13.74	-15.83	Peak
2	2474.10	-42.56	-32.54	-13.00	-10.02	-29.56	Peak

Middle Channel

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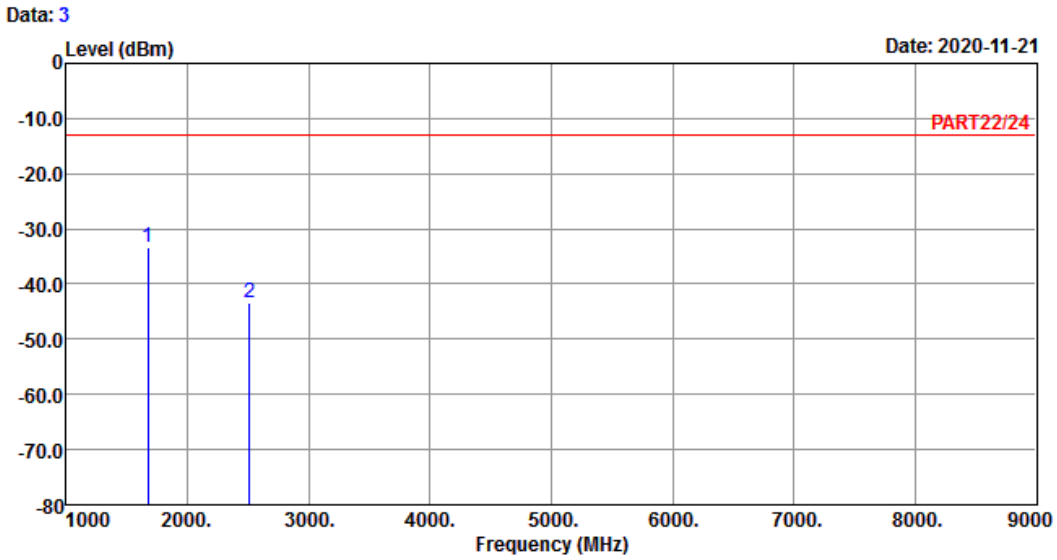
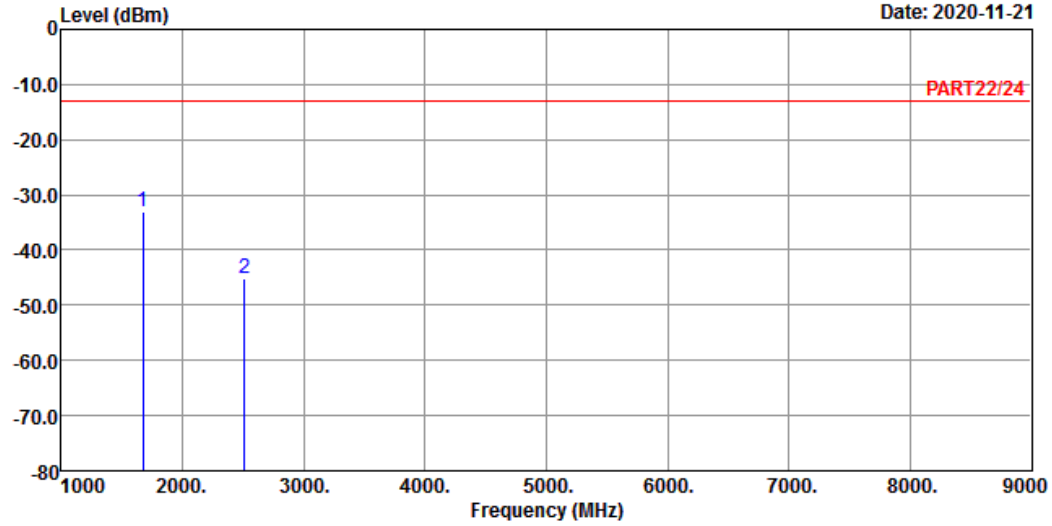


Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_1.4M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-33.44	-19.54	-13.00	-13.90	-20.44	Peak
2	2509.50	-43.44	-33.36	-13.00	-10.08	-30.44	Peak

Data: 4

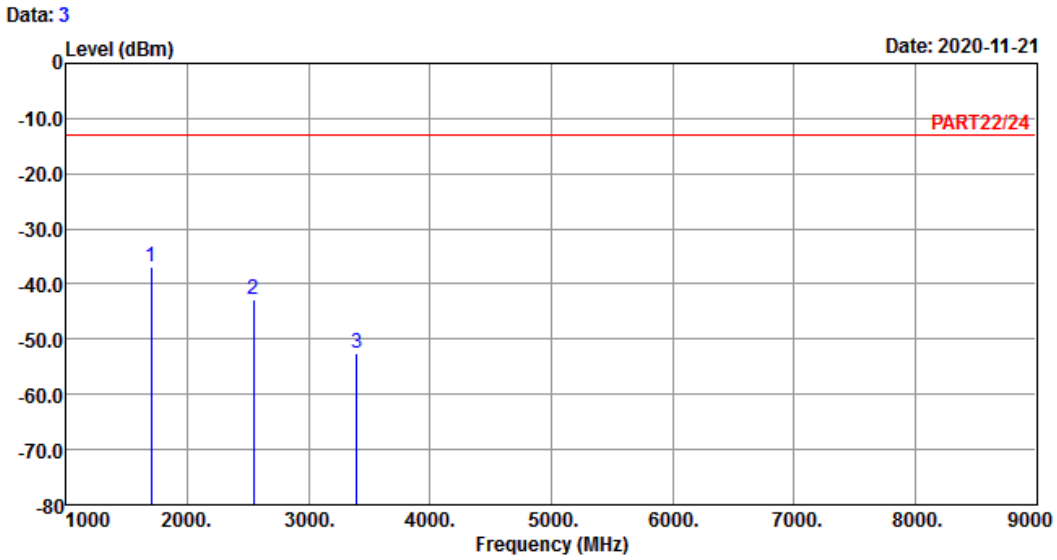


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_1.4M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-32.94	-19.04	-13.00	-13.90	-19.94	Peak
2	2509.50	-45.20	-35.12	-13.00	-10.08	-32.20	Peak

High Channel

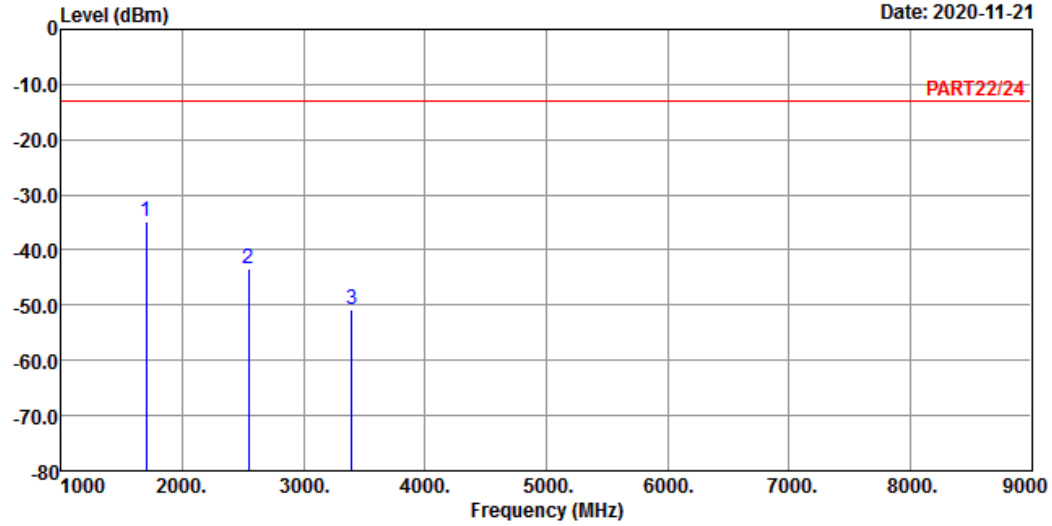
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1696.60	-36.95	-22.93	-13.00	-14.02	-23.95	Peak
2	2544.90	-42.67	-32.61	-13.00	-10.06	-29.67	Peak
3	3393.20	-52.45	-43.85	-13.00	-8.60	-39.45	Peak

Data: 4



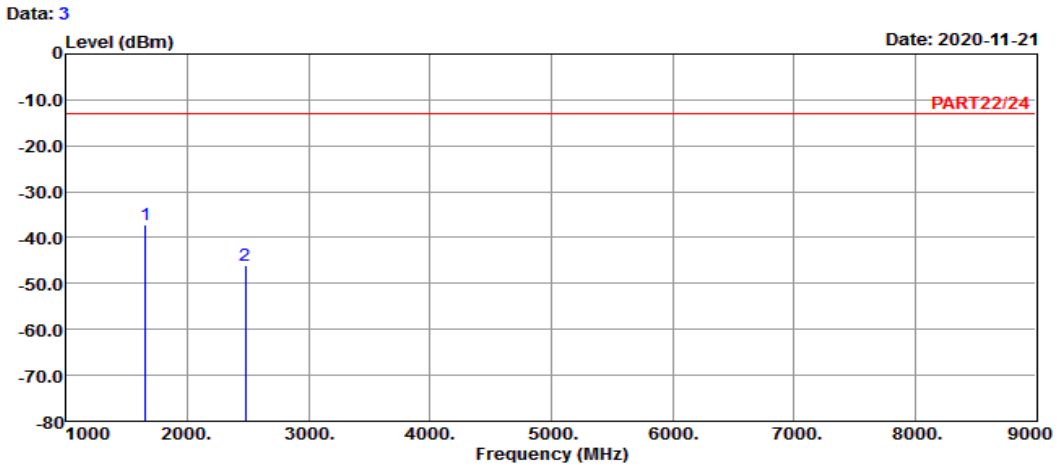
Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_1.4M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1696.60	-34.71	-20.69	-13.00	-14.02	-21.71	Peak
2	2544.90	-43.35	-33.29	-13.00	-10.06	-30.35	Peak
3	3393.20	-50.81	-42.21	-13.00	-8.60	-37.81	Peak

Channel Bandwidth: 5 MHz / QPSK

Low Channel

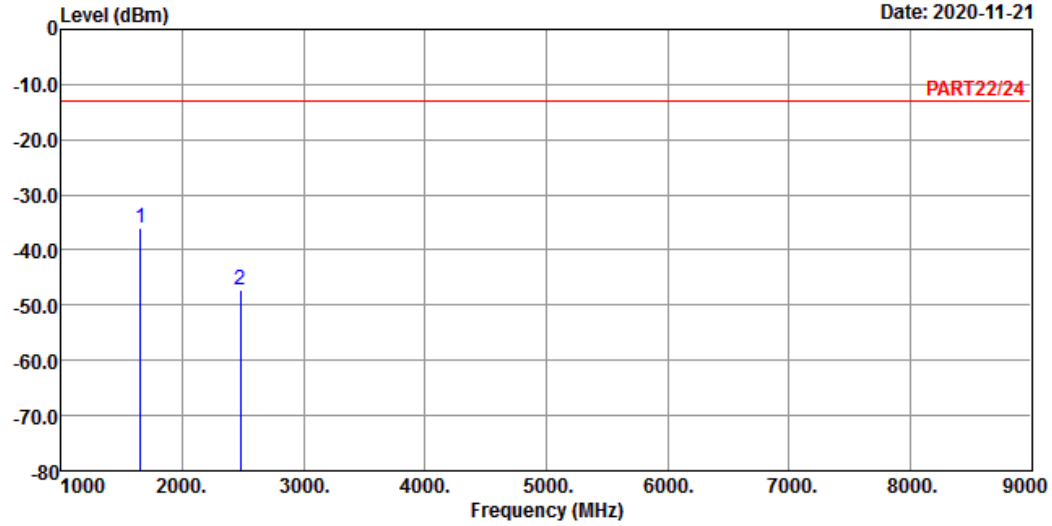
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1653.00	-37.08	-23.31	-13.00	-13.77	-24.08	Peak
2	2479.50	-46.14	-36.11	-13.00	-10.03	-33.14	Peak

Data: 4

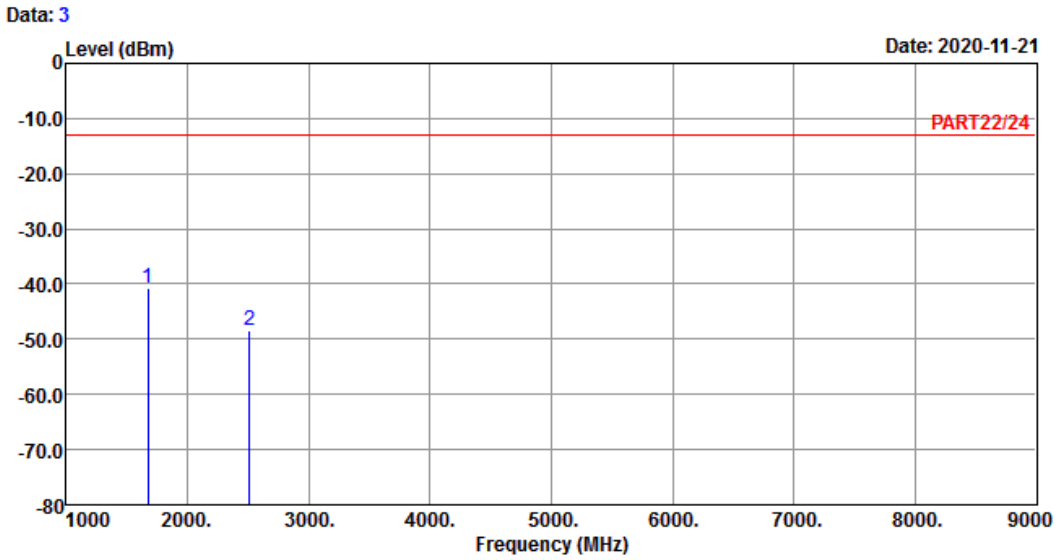


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_5M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1653.00	-36.01	-22.24	-13.00	-13.77	-23.01	Peak
2	2479.50	-47.20	-37.17	-13.00	-10.03	-34.20	Peak

Middle Channel

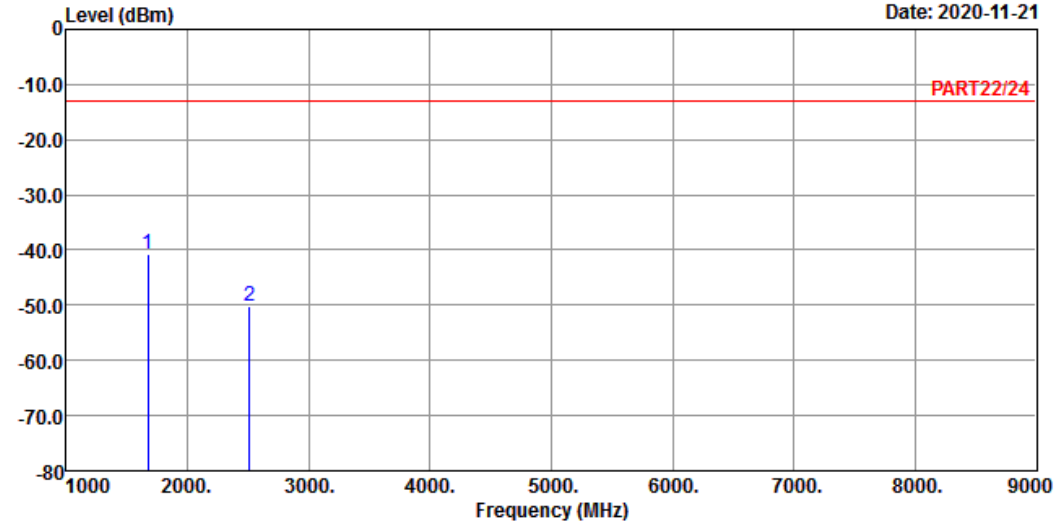
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_5M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-40.80	-26.90	-13.00	-13.90	-27.80	Peak
2	2509.50	-48.47	-38.39	-13.00	-10.08	-35.47	Peak

Data: 4

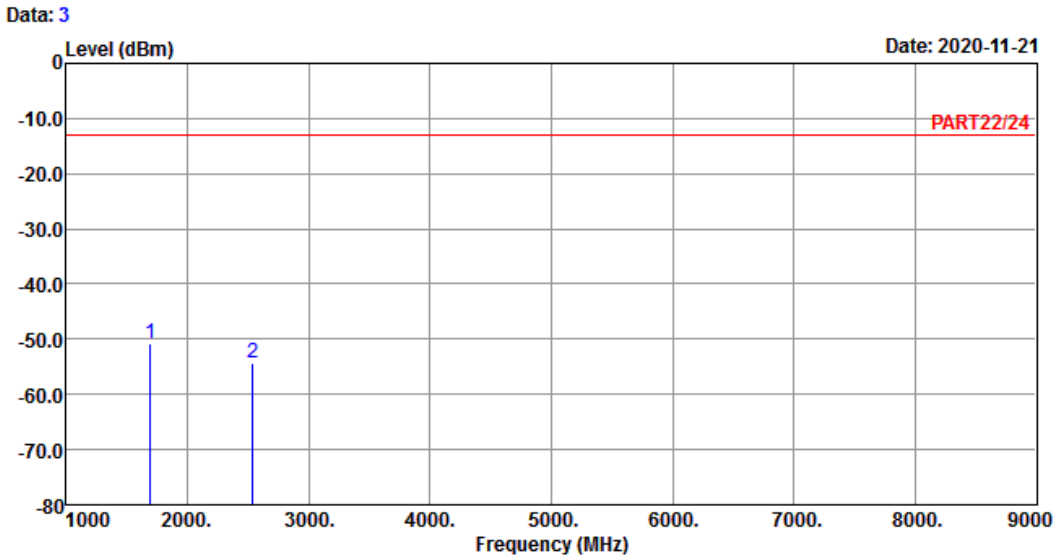


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_5M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-40.71	-26.81	-13.00	-13.90	-27.71	Peak
2	2509.50	-50.06	-39.98	-13.00	-10.08	-37.06	Peak

High Channel

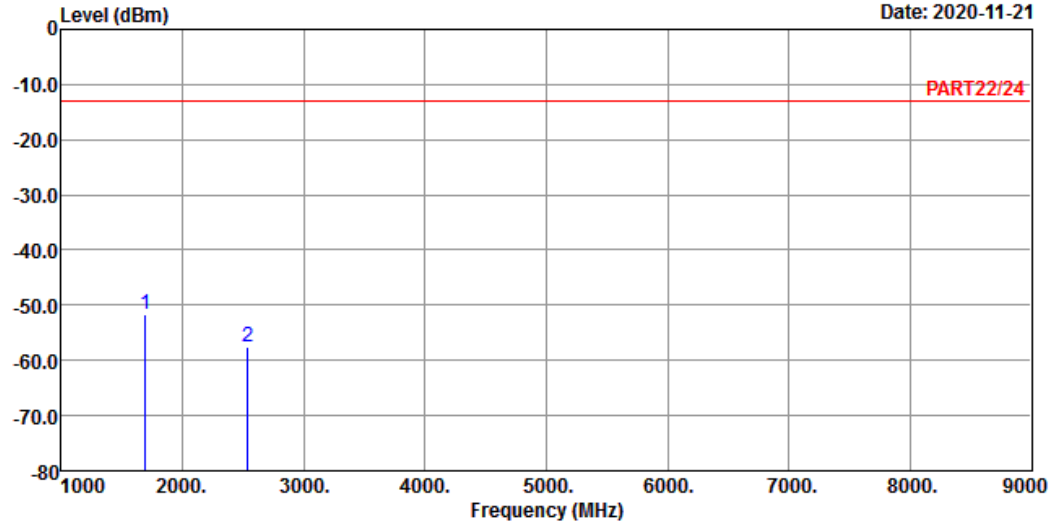
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 5 QPSK_5M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-50.69	-36.67	-13.00	-14.02	-37.69	Peak
2	2539.50	-54.46	-44.40	-13.00	-10.06	-41.46	Peak

Data: 4

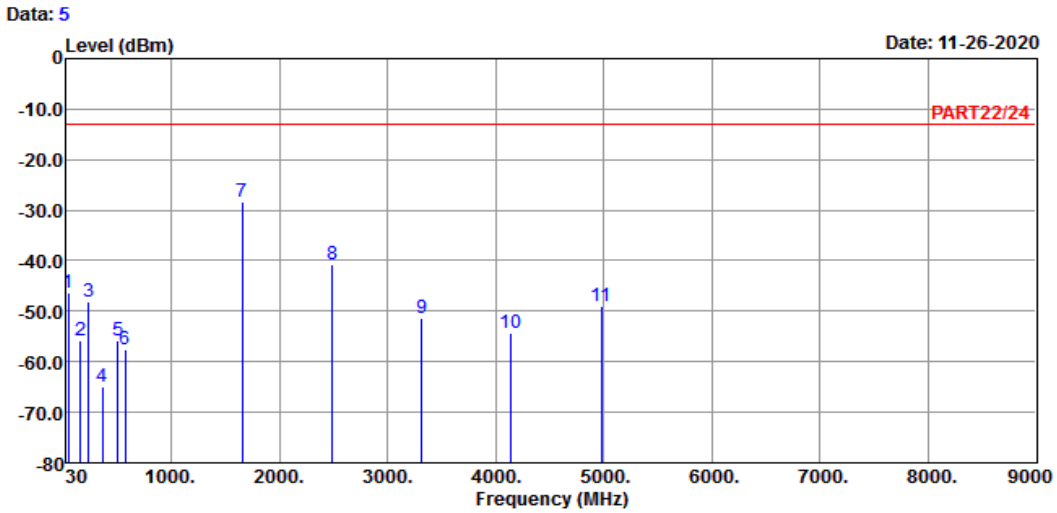


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_5M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-51.69	-37.67	-13.00	-14.02	-38.69	Peak
2	2539.50	-57.48	-47.42	-13.00	-10.06	-44.48	Peak

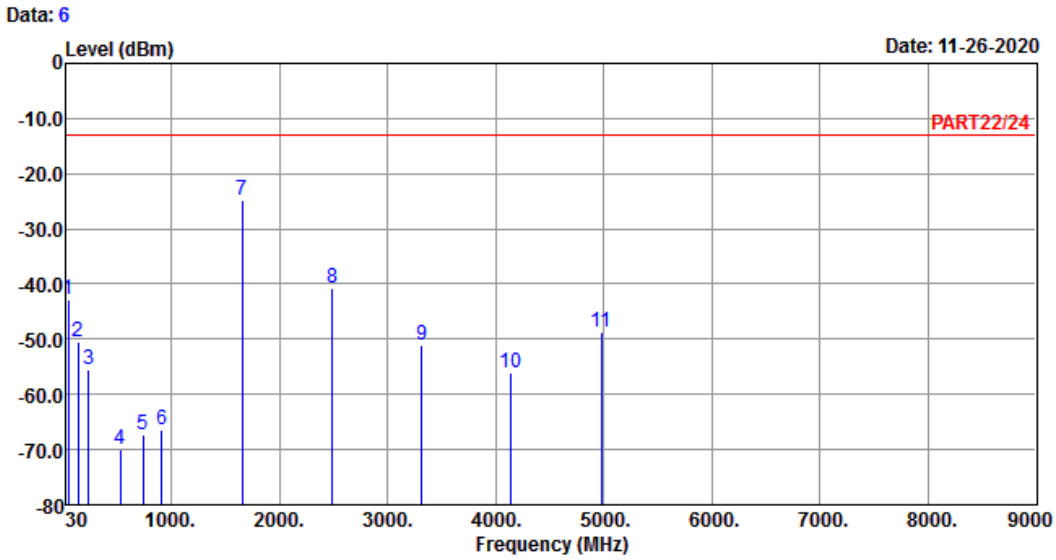
Channel Bandwidth: 10 MHz / QPSK
Low Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	45.52	-46.32	-43.82	-13.00	-2.50	-33.32	Peak
2	159.98	-55.69	-50.85	-13.00	-4.84	-42.69	Peak
3	237.58	-48.19	-41.69	-13.00	-6.50	-35.19	Peak
4	364.65	-64.84	-58.69	-13.00	-6.15	-51.84	Peak
5	503.36	-55.76	-51.25	-13.00	-4.51	-42.76	Peak
6	576.11	-57.60	-55.84	-13.00	-1.76	-44.60	Peak
7 pp	1658.00	-28.41	-14.61	-13.00	-13.80	-15.41	Peak
8	2487.00	-40.88	-30.83	-13.00	-10.05	-27.88	Peak
9	3316.00	-51.31	-42.45	-13.00	-8.86	-38.31	Peak
10	4145.00	-54.37	-48.43	-13.00	-5.94	-41.37	Peak
11	4974.00	-48.94	-46.22	-13.00	-2.72	-35.94	Peak

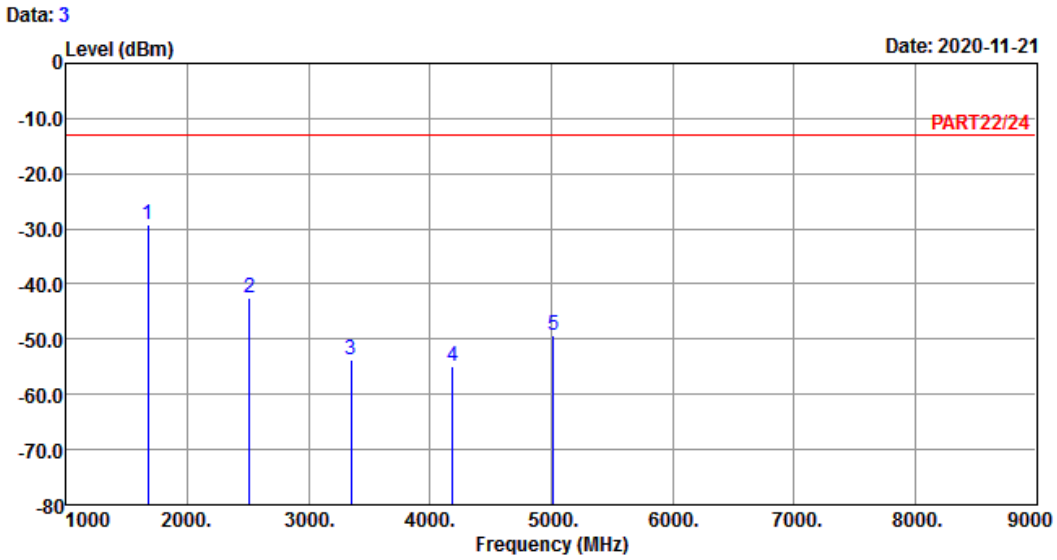


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_10M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	46.49	-42.84	-39.84	-13.00	-3.00	-29.84	Peak
2	138.64	-50.49	-41.83	-13.00	-8.66	-37.49	Peak
3	235.64	-55.40	-48.82	-13.00	-6.58	-42.40	Peak
4	528.58	-70.00	-66.39	-13.00	-3.61	-57.00	Peak
5	741.01	-67.23	-67.94	-13.00	0.71	-54.23	Peak
6	911.73	-66.43	-67.29	-13.00	0.86	-53.43	Peak
7 pp	1658.00	-24.85	-11.05	-13.00	-13.80	-11.85	Peak
8	2487.00	-40.67	-30.62	-13.00	-10.05	-27.67	Peak
9	3316.00	-51.02	-42.16	-13.00	-8.86	-38.02	Peak
10	4145.00	-55.96	-50.02	-13.00	-5.94	-42.96	Peak
11	4974.00	-48.79	-46.07	-13.00	-2.72	-35.79	Peak

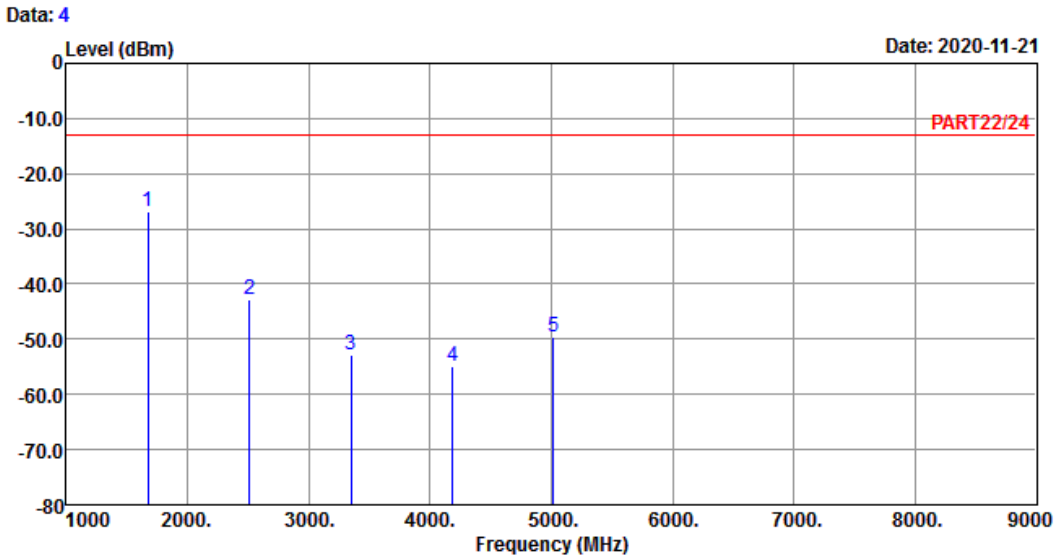
Middle Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-29.14	-15.24	-13.00	-13.90	-16.14	Peak
2	2509.50	-42.56	-32.48	-13.00	-10.08	-29.56	Peak
3	3346.00	-53.61	-44.85	-13.00	-8.76	-40.61	Peak
4	4182.50	-54.78	-49.10	-13.00	-5.68	-41.78	Peak
5	5019.00	-49.31	-46.99	-13.00	-2.32	-36.31	Peak

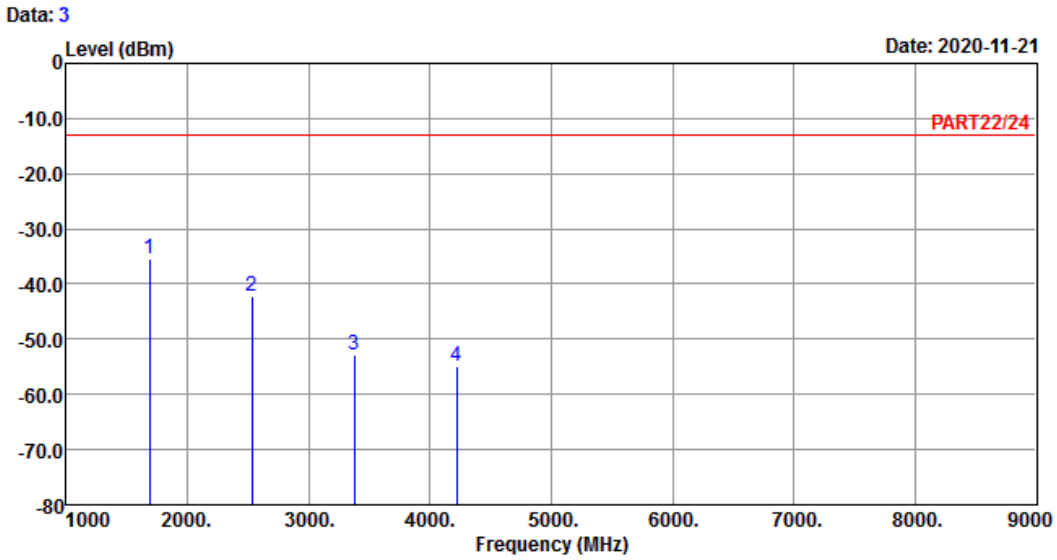


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_10M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-26.72	-12.82	-13.00	-13.90	-13.72	Peak
2	2509.50	-42.67	-32.59	-13.00	-10.08	-29.67	Peak
3	3346.00	-52.74	-43.98	-13.00	-8.76	-39.74	Peak
4	4182.50	-54.91	-49.23	-13.00	-5.68	-41.91	Peak
5	5019.00	-49.62	-47.30	-13.00	-2.32	-36.62	Peak

High Channel

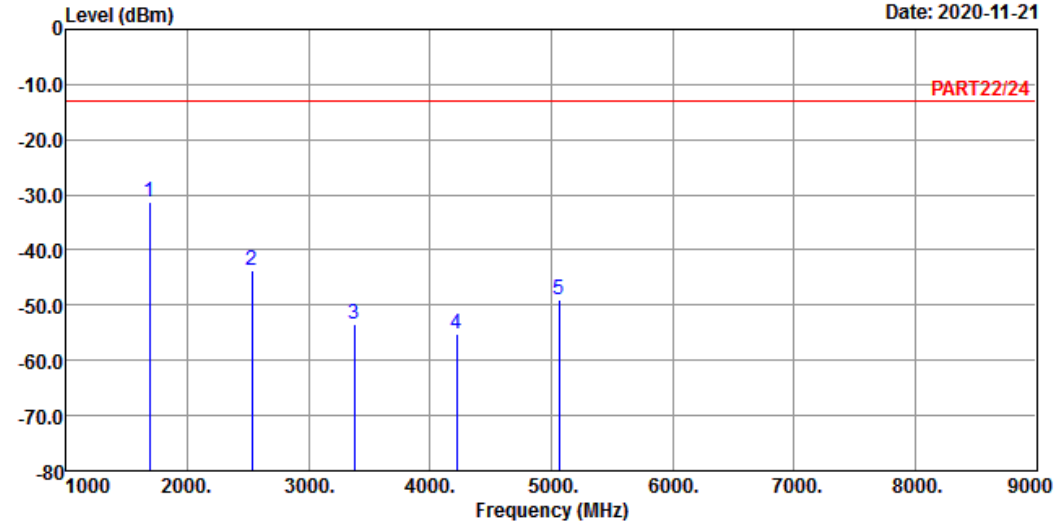
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1688.00	-35.38	-21.39	-13.00	-13.99	-22.38	Peak
2	2532.00	-42.18	-32.11	-13.00	-10.07	-29.18	Peak
3	3376.00	-52.74	-44.07	-13.00	-8.67	-39.74	Peak
4	4220.00	-55.05	-49.48	-13.00	-5.57	-42.05	Peak

Data: 4

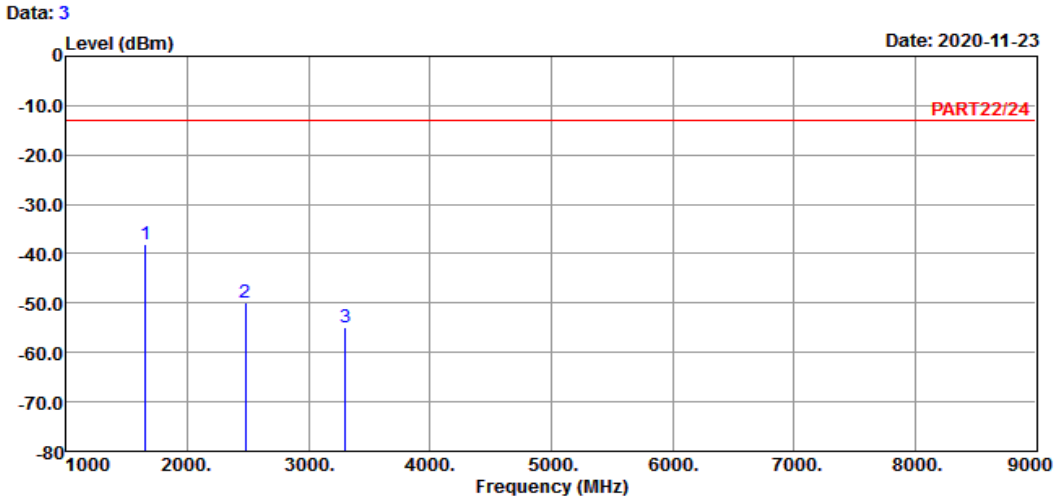


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 5 QPSK_10M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1688.00	-31.21	-17.22	-13.00	-13.99	-18.21	Peak
2	2532.00	-43.69	-33.62	-13.00	-10.07	-30.69	Peak
3	3376.00	-53.32	-44.65	-13.00	-8.67	-40.32	Peak
4	4220.00	-55.16	-49.59	-13.00	-5.57	-42.16	Peak
5	5064.00	-48.89	-46.87	-13.00	-2.02	-35.89	Peak

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

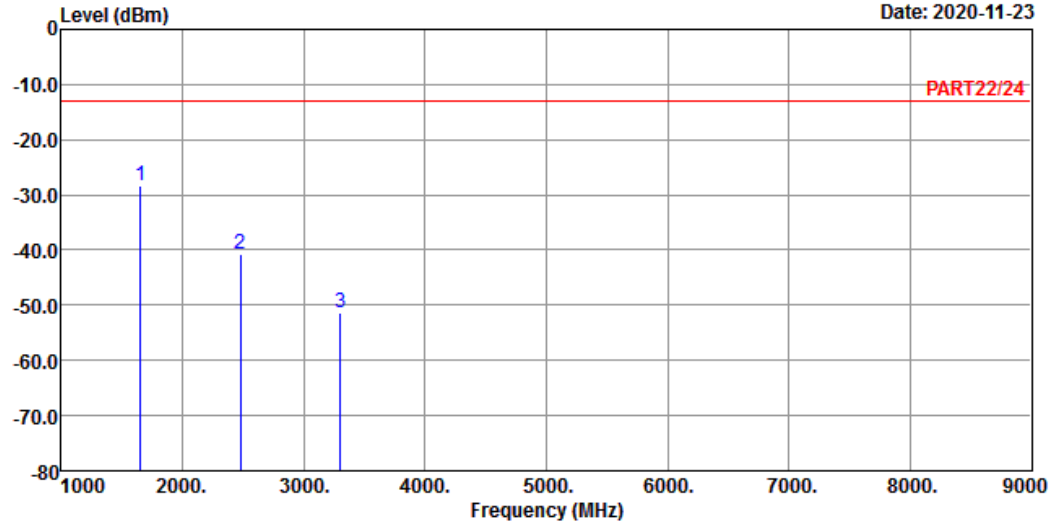
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1649.40	-38.11	-24.37	-13.00	-13.74	-25.11	Peak
2	2474.10	-49.91	-39.89	-13.00	-10.02	-36.91	Peak
3	3298.80	-55.05	-46.19	-13.00	-8.86	-42.05	Peak

Data: 4

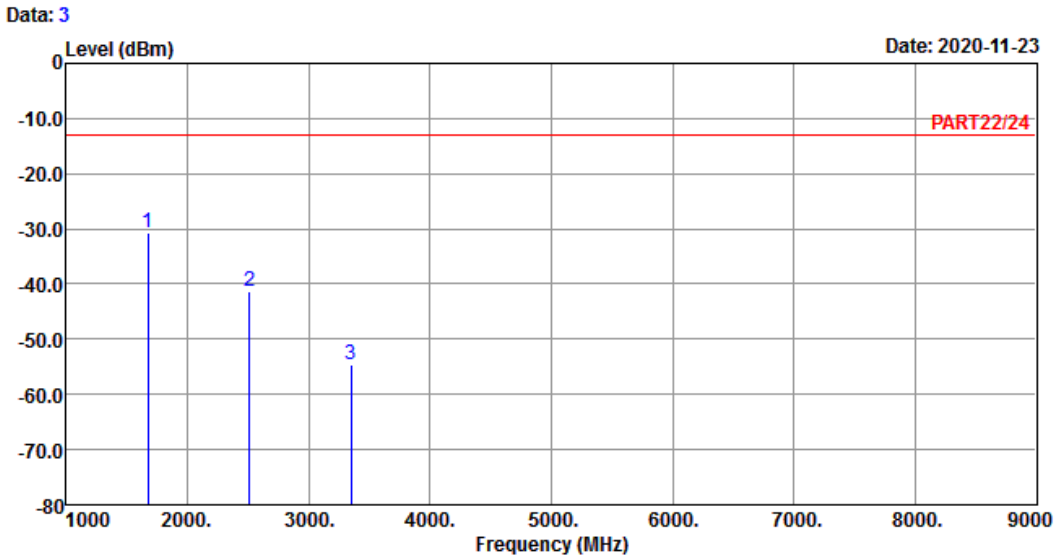


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_1.4M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1649.40	-28.31	-14.57	-13.00	-13.74	-15.31	Peak
2	2474.10	-40.70	-30.68	-13.00	-10.02	-27.70	Peak
3	3298.80	-51.42	-42.56	-13.00	-8.86	-38.42	Peak

Middle Channel

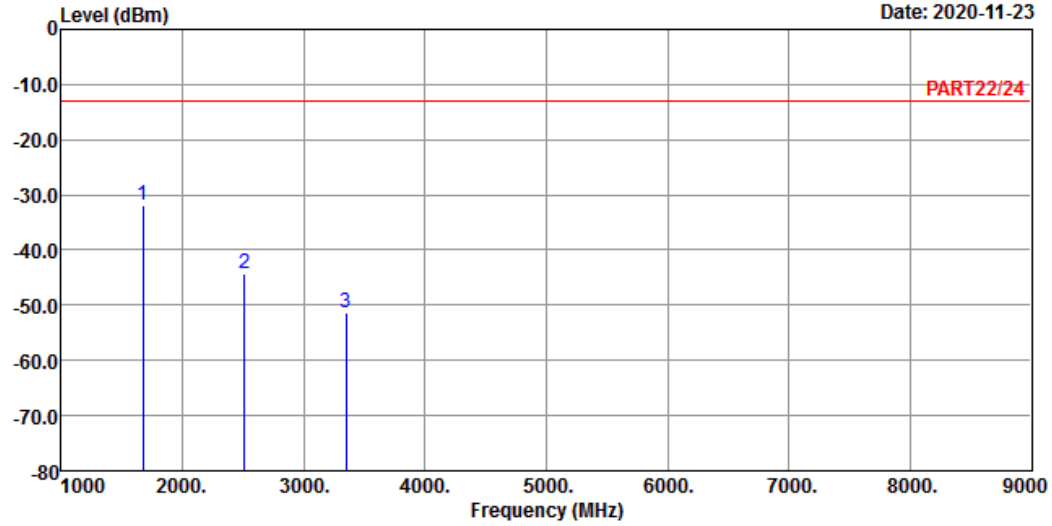
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 26 QPSK_1.4M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-30.83	-16.93	-13.00	-13.90	-17.83	Peak
2	2509.50	-41.31	-31.23	-13.00	-10.08	-28.31	Peak
3	3346.00	-54.52	-45.76	-13.00	-8.76	-41.52	Peak

Data: 4

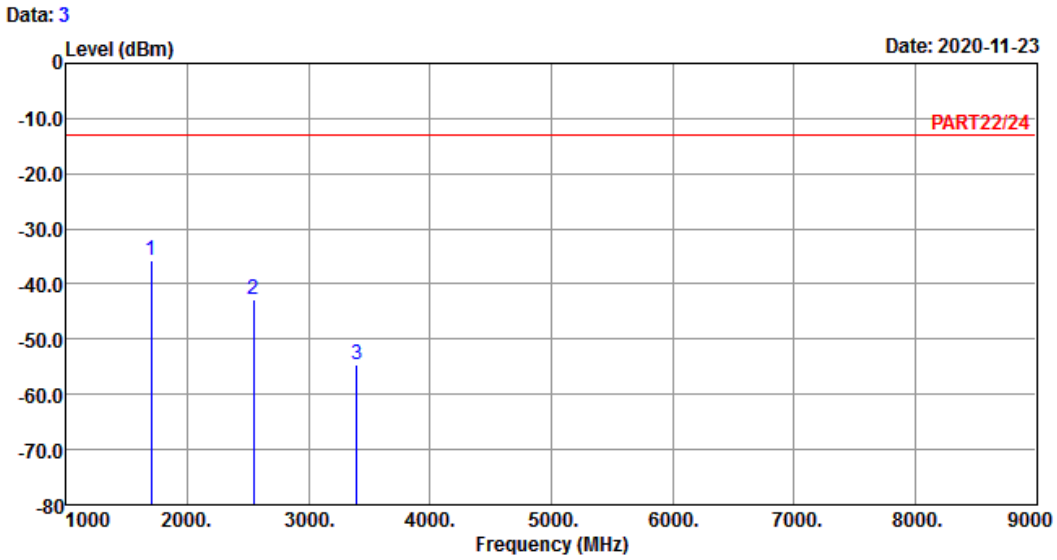


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_1.4M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-31.93	-18.03	-13.00	-13.90	-18.93	Peak
2	2509.50	-44.41	-34.33	-13.00	-10.08	-31.41	Peak
3	3346.00	-51.44	-42.68	-13.00	-8.76	-38.44	Peak

High Channel

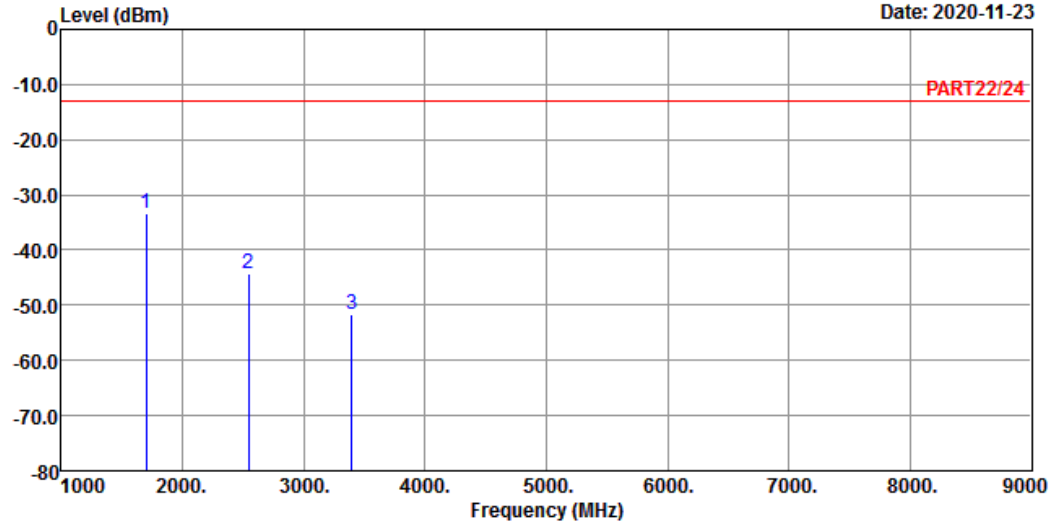
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 26 QPSK_1.4M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1696.60	-35.70	-21.68	-13.00	-14.02	-22.70	Peak
2	2544.90	-42.76	-32.70	-13.00	-10.06	-29.76	Peak
3	3393.20	-54.63	-46.03	-13.00	-8.60	-41.63	Peak

Data: 4

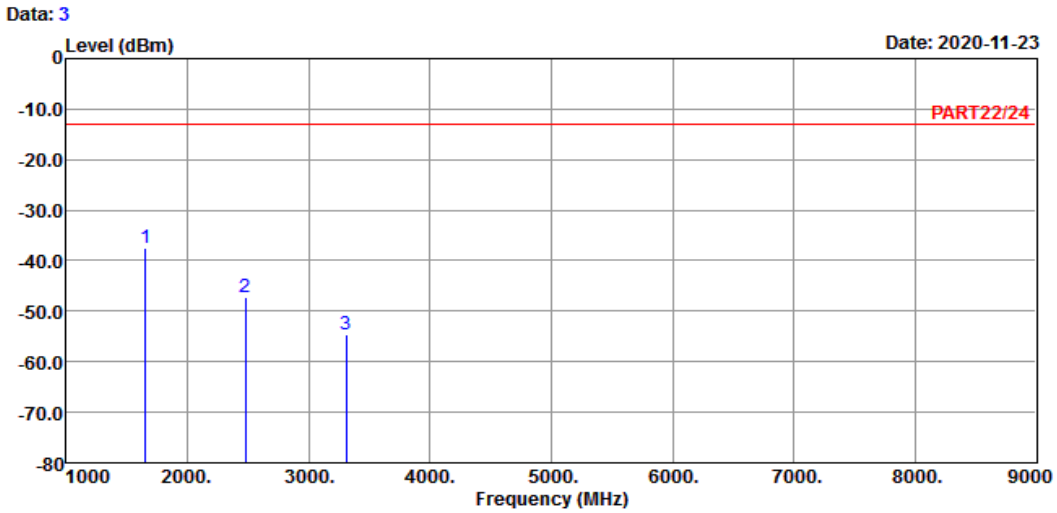


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_1.4M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1696.60	-33.26	-19.24	-13.00	-14.02	-20.26	Peak
2	2544.90	-44.40	-34.34	-13.00	-10.06	-31.40	Peak
3	3393.20	-51.80	-43.20	-13.00	-8.60	-38.80	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

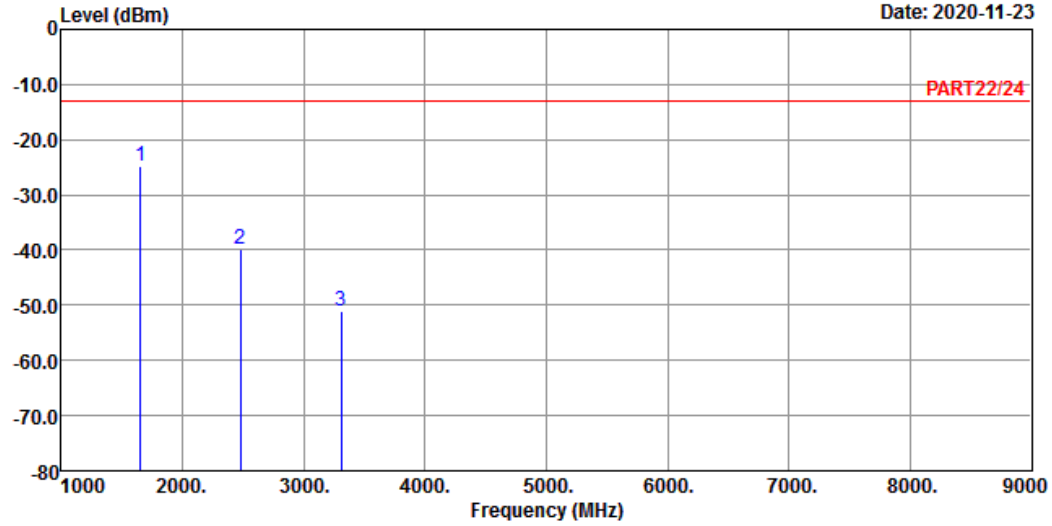
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1653.00	-37.55	-23.78	-13.00	-13.77	-24.55	Peak
2	2479.50	-47.13	-37.10	-13.00	-10.03	-34.13	Peak
3	3306.00	-54.57	-45.68	-13.00	-8.89	-41.57	Peak

Data: 4

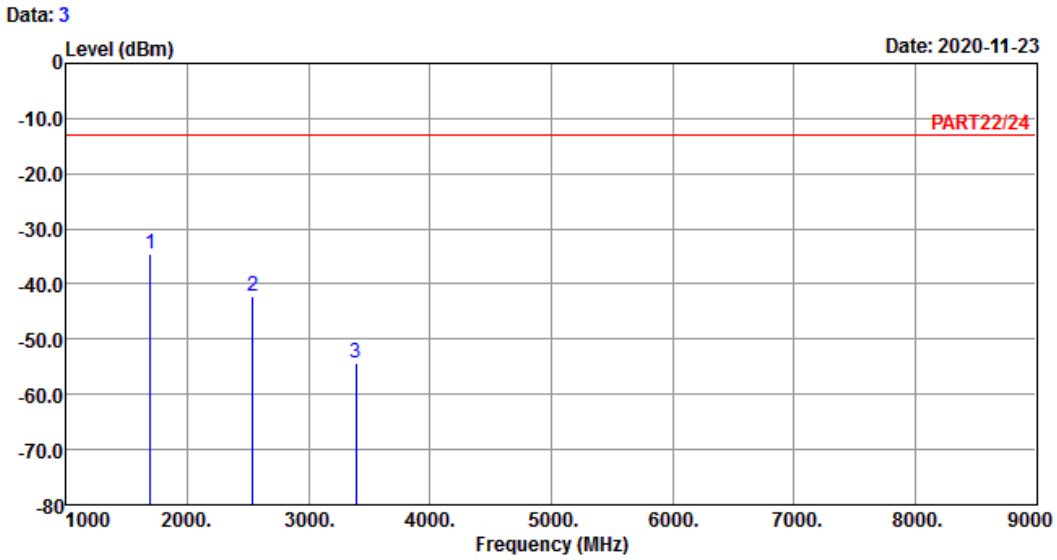


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_5M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1653.00	-24.86	-11.09	-13.00	-13.77	-11.86	Peak
2	2479.50	-39.95	-29.92	-13.00	-10.03	-26.95	Peak
3	3306.00	-50.92	-42.03	-13.00	-8.89	-37.92	Peak

Middle Channel

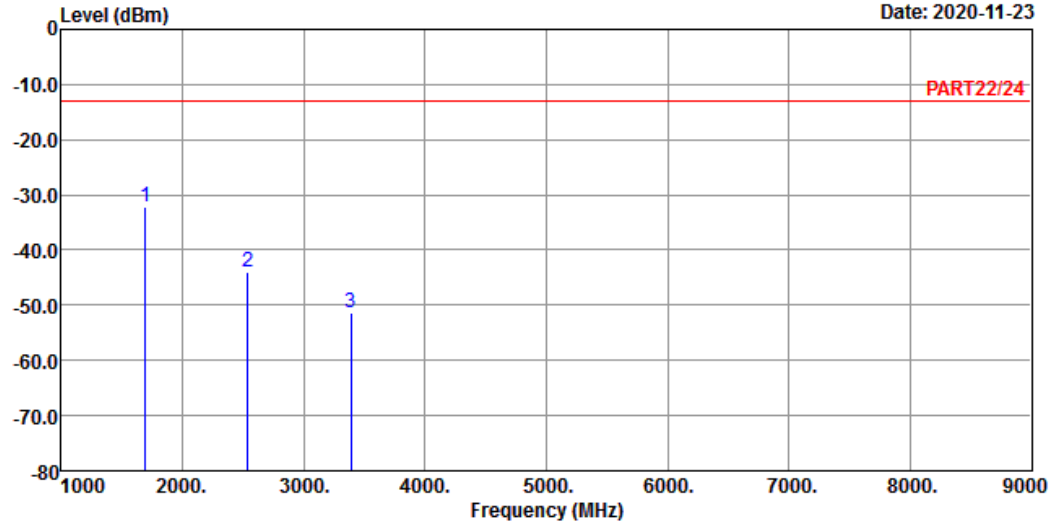
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-34.43	-20.41	-13.00	-14.02	-21.43	Peak
2	2539.50	-42.08	-32.02	-13.00	-10.06	-29.08	Peak
3	3386.00	-54.28	-45.65	-13.00	-8.63	-41.28	Peak

Data: 4

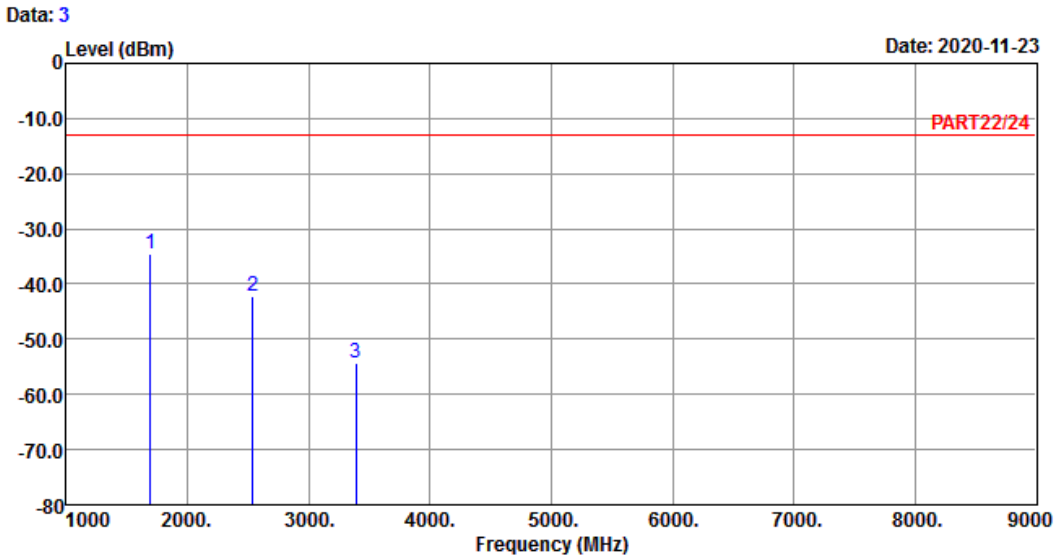


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_5M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-32.32	-18.30	-13.00	-14.02	-19.32	Peak
2	2539.50	-43.95	-33.89	-13.00	-10.06	-30.95	Peak
3	3386.00	-51.23	-42.60	-13.00	-8.63	-38.23	Peak

High Channel

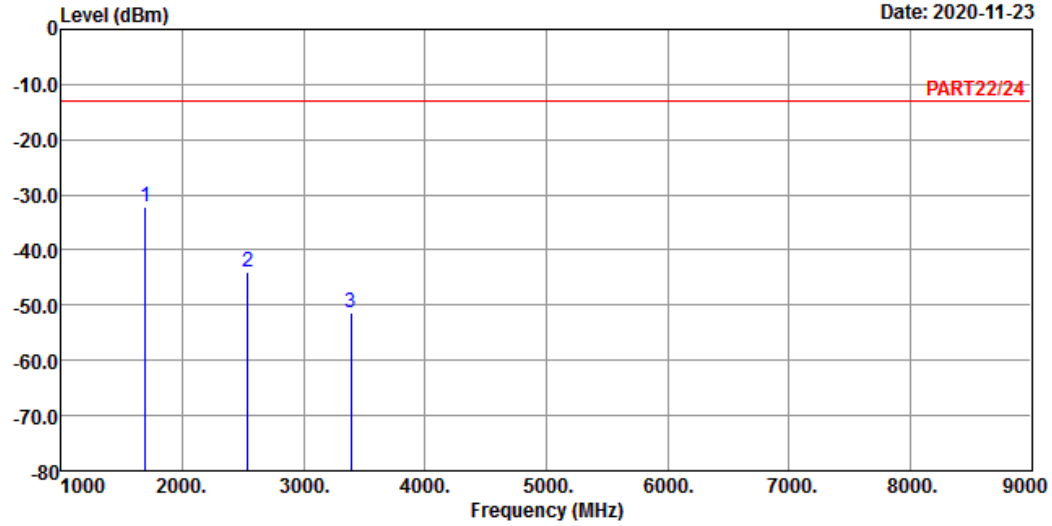
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-34.43	-20.41	-13.00	-14.02	-21.43	Peak
2	2539.50	-42.08	-32.02	-13.00	-10.06	-29.08	Peak
3	3386.00	-54.28	-45.65	-13.00	-8.63	-41.28	Peak

Data: 4

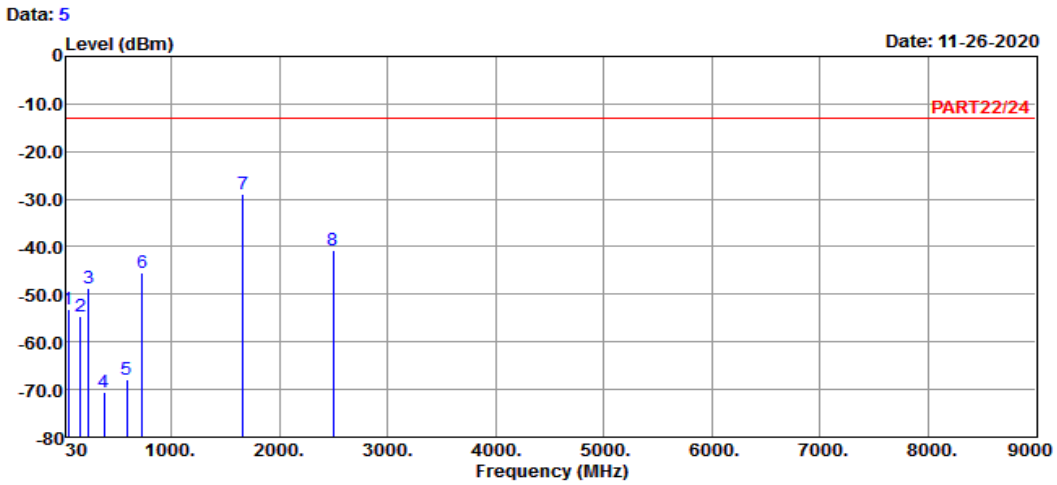


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_5M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1693.00	-32.32	-18.30	-13.00	-14.02	-19.32	Peak
2	2539.50	-43.95	-33.89	-13.00	-10.06	-30.95	Peak
3	3386.00	-51.23	-42.60	-13.00	-8.63	-38.23	Peak

Channel Bandwidth: 15 MHz / QPSK
Low Channel

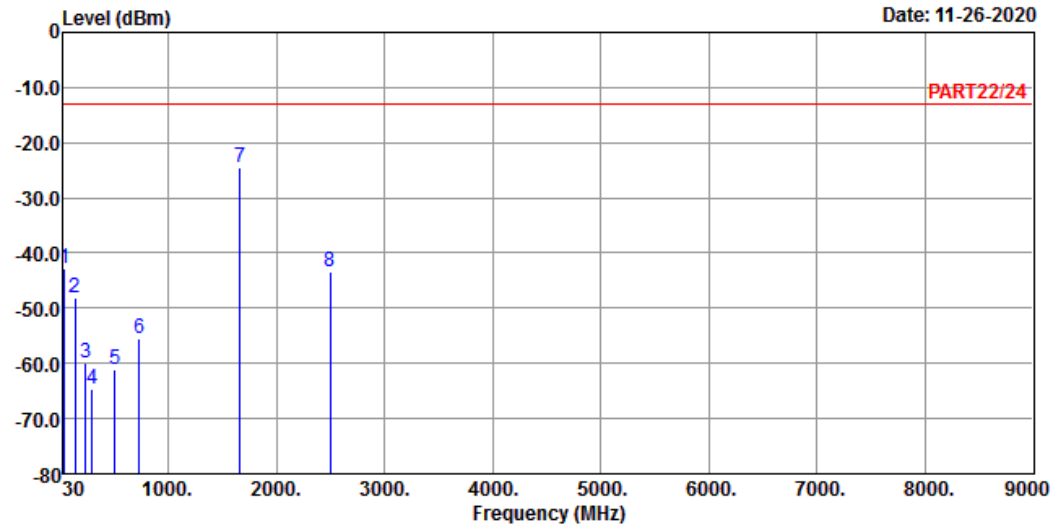
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	47.46	-53.22	-49.72	-13.00	-3.50	-40.22	Peak
2	160.95	-54.73	-49.82	-13.00	-4.91	-41.73	Peak
3	235.64	-48.70	-42.12	-13.00	-6.58	-35.70	Peak
4	378.23	-70.42	-64.35	-13.00	-6.07	-57.42	Peak
5	587.75	-67.92	-66.64	-13.00	-1.28	-54.92	Peak
6	733.25	-45.50	-46.05	-13.00	0.55	-32.50	Peak
7 pp	1663.00	-28.89	-15.06	-13.00	-13.83	-15.89	Peak
8	2494.50	-40.71	-30.65	-13.00	-10.06	-27.71	Peak

Data: 6

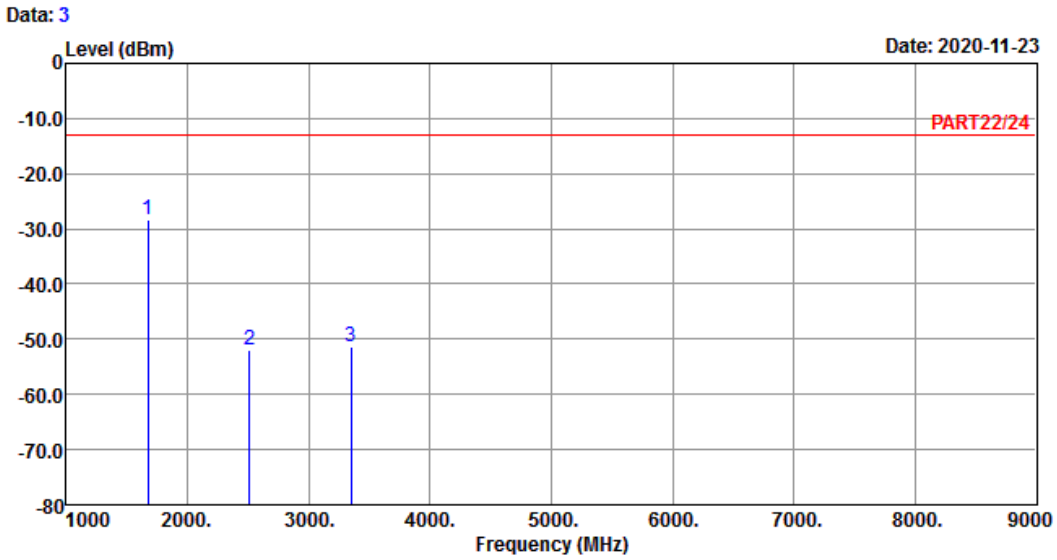


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_15M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	37.76	-42.94	-42.50	-13.00	-0.44	-29.94	Peak
2	138.64	-48.24	-39.58	-13.00	-8.66	-35.24	Peak
3	231.76	-59.84	-53.11	-13.00	-6.73	-46.84	Peak
4	296.75	-64.54	-57.59	-13.00	-6.95	-51.54	Peak
5	505.30	-61.16	-56.72	-13.00	-4.44	-48.16	Peak
6	730.34	-55.52	-56.02	-13.00	0.50	-42.52	Peak
7 pp	1663.00	-24.37	-10.54	-13.00	-13.83	-11.37	Peak
8	2494.50	-43.25	-33.19	-13.00	-10.06	-30.25	Peak

Middle Channel

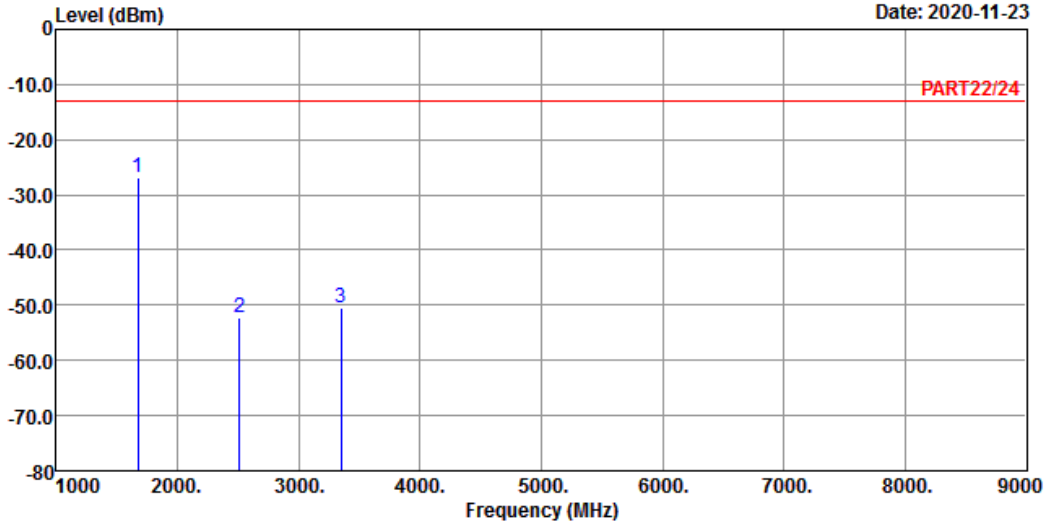
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-28.41	-14.51	-13.00	-13.90	-15.41	Peak
2	2509.50	-52.02	-41.94	-13.00	-10.08	-39.02	Peak
3	3346.00	-51.42	-42.66	-13.00	-8.76	-38.42	Peak

Data: 4

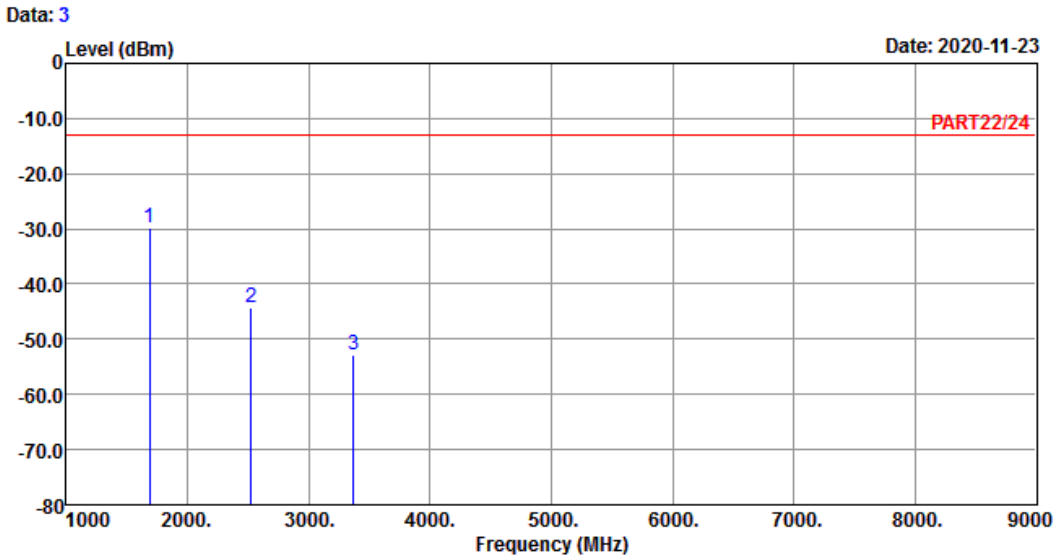


Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : LTE Band 26 QPSK_15M Link_M-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1673.00	-26.84	-12.94	-13.00	-13.90	-13.84	Peak
2	2509.50	-52.12	-42.04	-13.00	-10.08	-39.12	Peak
3	3346.00	-50.41	-41.65	-13.00	-8.76	-37.41	Peak

High Channel

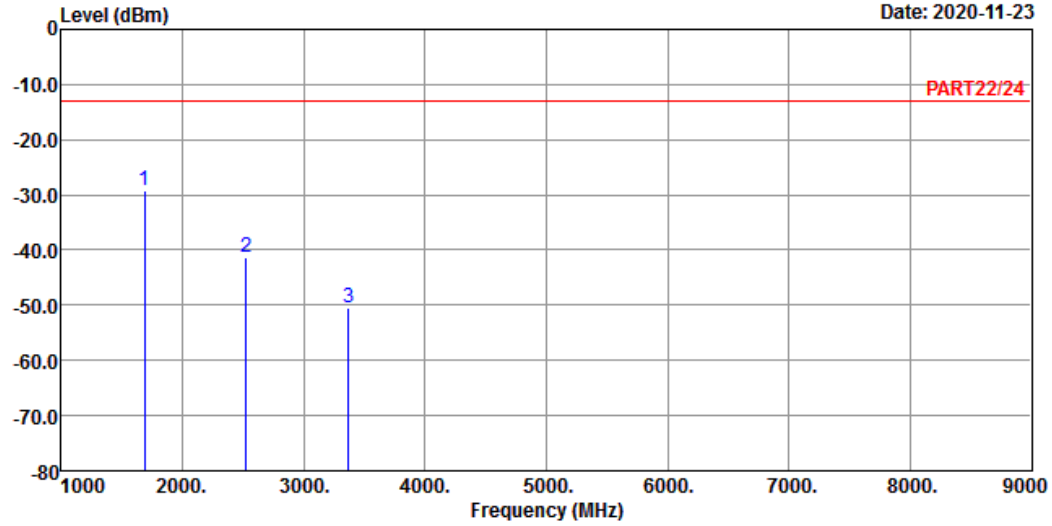
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : LTE Band 26 QPSK_15M Link_H-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1683.00	-29.88	-15.92	-13.00	-13.96	-16.88	Peak
2	2524.50	-44.32	-34.25	-13.00	-10.07	-31.32	Peak
3	3366.00	-52.94	-44.24	-13.00	-8.70	-39.94	Peak

Data: 4



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

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1683.00	-29.33	-15.37	-13.00	-13.96	-16.33	Peak
2	2524.50	-41.30	-31.23	-13.00	-10.07	-28.30	Peak
3	3366.00	-50.43	-41.73	-13.00	-8.70	-37.43	Peak

5 Pictures of Test Arrangements

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

Appendix – Information of the Testing Laboratories

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

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

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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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