

Partial FCC Test Report (PART 90S)

Report No.: RFBHPY-WTW-P20110791-3

FCC ID: FCC – A4C01007A

Test Model: LE910C1-NS

Received Date: Nov. 20, 2020

Test Date: Nov. 25, 2020 ~ Jan. 25, 2021

Issued Date: Jan. 26, 2021

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: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record


Issue No.	Description	Date Issued
RFBHPY-WTW-P20110791-3	Original Release	Jan. 26, 2021

1 Certificate of Conformity

Product: LTE Module
Brand: Telit
Test Model: LE910C1-NS
Sample Status: Identical Prototype
Applicant: RM Acquisition LLC
Test Date: Nov. 25, 2020 ~ Jan. 25, 2021
Standards: FCC Part 90, Subpart I, R
FCC Part 2

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: Jan. 26, 2021
Lena Wang / Specialist

Approved by :  , Date: Jan. 26, 2021
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 90 & Part 2 (LTE 26)			
FCC Clause	Test Item	Result	Remarks
2.1046 90.635 (b)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to note
2.1055 90.213	Frequency Stability	N/A	Refer to note
2.1049 90.209	Occupied Bandwidth	N/A	Refer to note
2.1051 90.691	Emission Masks	N/A	Refer to note
2.1051 90.691	Conducted Spurious Emissions	N/A	Refer to note
2.1053 90.691	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -22.27 dB at 1638.00 MHz.

Note:

- 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.: FG740703P90 (LTE Module, Brand: Telit, Model: LE910C1-NS, FCC ID: R17LE910C1NS).
- 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) (\pm)
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
			Dec. 07, 2020	Dec. 06, 2021
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
			Nov. 25, 2020	Nov. 24, 2021
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
			Dec. 28, 2020	Dec. 27, 2021
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

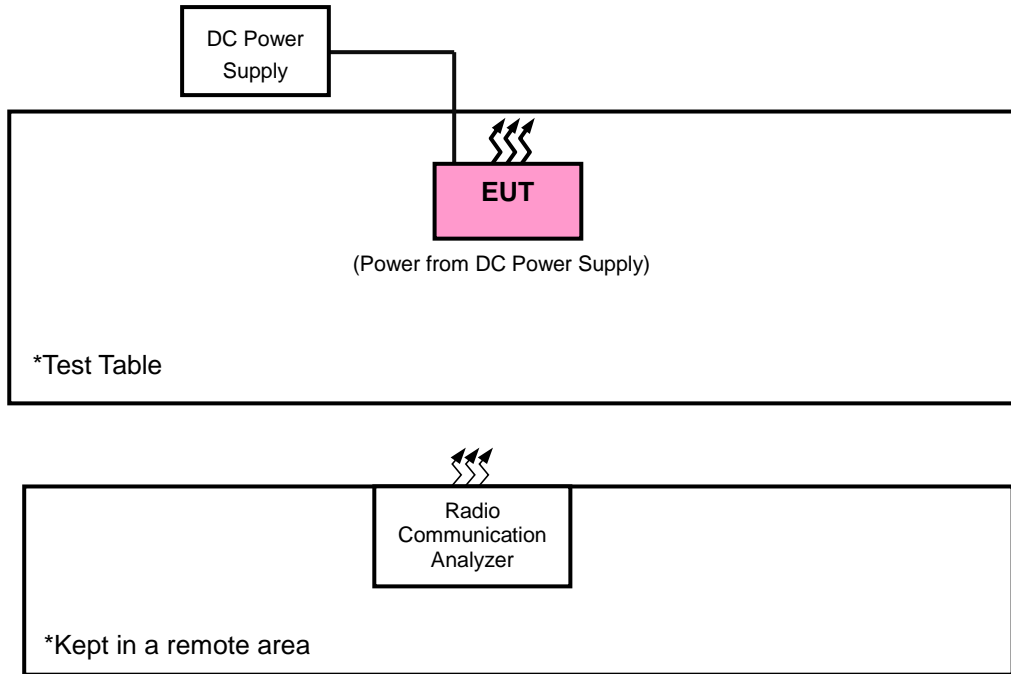
Product	LTE Module	
Brand	Telit	
Test Model	LE910C1-NS	
Status of EUT	Identical Prototype	
Power Supply Rating	12 or 24 Vdc (DC Power Supply)	
Modulation Type	LTE	QPSK, 16QAM
Frequency Range	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	814.7 ~ 823.3 MHz
	LTE Band 26 (Channel Bandwidth: 3 MHz)	815.5 ~ 822.5 MHz
	LTE Band 26 (Channel Bandwidth: 5 MHz)	816.5 ~ 821.5 MHz
	LTE Band 26 (Channel Bandwidth: 10 MHz)	819 MHz
	LTE Band 26 (Channel Bandwidth: 15 MHz)	821.5 MHz
Max. ERP Power	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	130.02 mW
	LTE Band 26 (Channel Bandwidth: 3 MHz)	134.59 mW
	LTE Band 26 (Channel Bandwidth: 5 MHz)	136.46 mW
	LTE Band 26 (Channel Bandwidth: 10 MHz)	140.60 mW
	LTE Band 26 (Channel Bandwidth: 15 MHz)	141.91 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.: FG740703P90 (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.
5. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. 15MHz bandwidth is straddle channels. For 15MHz bandwidth the ERP and Emission of test items are complies the limit line of part22 rule.

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 26	Y-plane	Z-axis

LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26765	26765	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 0 RB Offset
		26765	26765	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 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 90

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

KDB 971168 D02 Misc Rev Approv License Devices v02r01

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

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw) ERP.

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.P.R power - 2.15 dB.

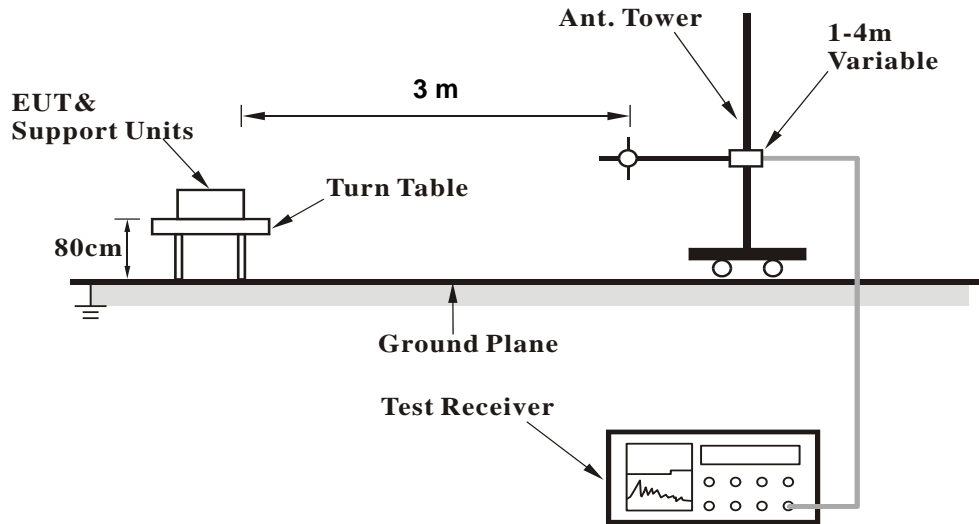
Conducted Power Measurement:

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

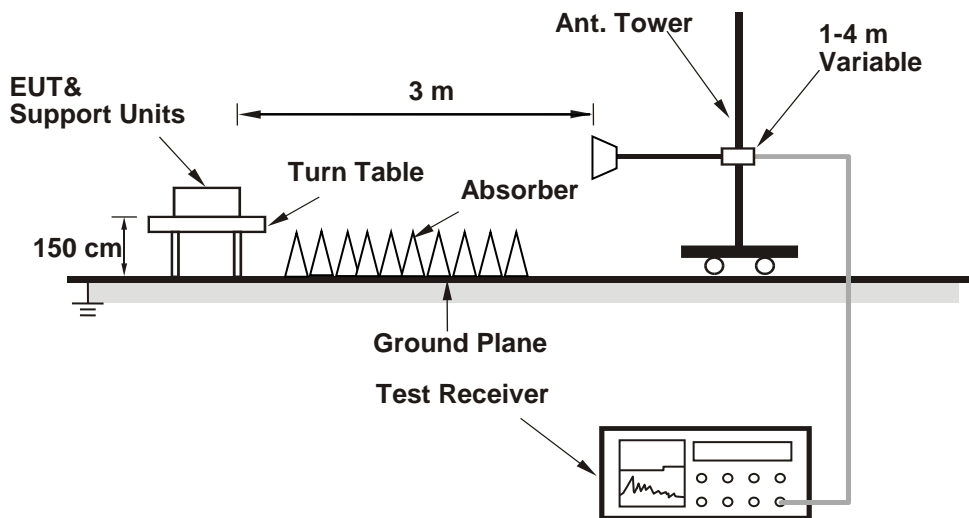
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

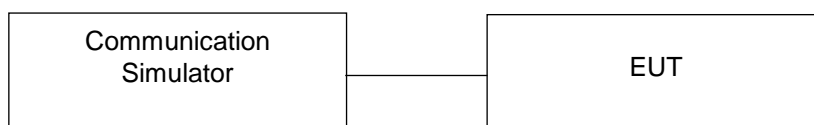


<Radiated Emission above 1 GHz>



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 26																	
BW	MCS Index	RB Size	RB Offset				3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset				3GPP MPR (dB)		
				Channel	26765								Channel	26740			
				Frequency (MHz)	931.5								Frequency (MHz)	819.0			
15M	QPSK	1	0	22.67			0	10M	QPSK	1	0		22.87		0		
		1	37	23.38			0			1	24		23.08		0		
		1	74	23.00			0			1	49		23.00		0		
		36	0	21.87			1			25	0		21.87		1		
		36	18	21.76			1			25	12		21.76		1		
		36	37	21.91			1			25	24		22.01		1		
		75	0	21.72			1			50	0		21.72		1		
	16QAM	1	0	21.86			1	16QAM	1	0		22.06		1			
		1	37	22.46			1		1	24		22.36		1			
		1	74	22.56			1		1	49		22.46		1			
		27	0	20.56			2		25	0		20.91		2			
		27	12	20.81			2		25	12		20.82		2			
		27	23	20.74			2		25	23		20.80		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	26715	26740						26765	Channel	26705		26740	26775
				Frequency (MHz)	816.5	819.0						821.5	Frequency (MHz)	815.5		819.0	822.5
5M	QPSK	1	0	22.72	22.85	22.88	0	3M	QPSK	1	0	22.81	22.92	22.71	0		
		1	12	22.81	23.04	22.95	0			1	7	22.73	23.10	23.25	0		
		1	24	22.50	22.75	22.92	0			1	14	22.92	23.11	22.85	0		
		12	0	22.06	21.62	21.86	1			8	0	21.87	21.71	21.94	1		
		12	6	21.80	21.92	21.99	1			8	4	21.73	21.89	21.87	1		
		12	13	21.86	21.95	21.59	1			8	7	21.90	21.96	21.82	1		
		25	0	21.73	21.92	21.66	1			15	0	21.69	21.65	21.59	1		
	16QAM	1	0	21.64	22.00	21.56	1	16QAM	1	0	21.67	21.80	22.01	1			
		1	12	21.76	21.99	21.76	1		1	7	21.91	22.32	22.11	1			
		1	24	21.73	21.85	21.34	1		1	14	21.53	21.99	22.14	1			
		12	0	20.82	20.67	20.56	2		8	0	20.90	20.66	20.54	2			
		12	6	21.00	21.12	21.15	2		8	4	20.76	21.78	20.56	2			
		12	13	20.65	20.91	20.92	2		8	7	20.83	20.72	20.55	2			
		25	0	20.91	20.66	20.46	2		15	0	20.77	20.78	20.85	2			
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)										
				Channel	26697	26740										26783	
				Frequency (MHz)	814.7	819.0										823.3	
1.4M	QPSK	1	0	23.18	23.05	22.71	0										
		1	2	23.25	22.94	23.09	0										
		1	5	22.84	22.75	23.04	0										
		3	0	22.96	22.85	22.98	0										
		3	1	23.07	22.91	22.79	0										
		3	2	22.74	22.86	22.80	0										
		6	0	23.02	21.76	21.85	1										
	16QAM	1	0	21.58	22.01	21.73	1										
		1	2	22.12	22.15	21.57	1										
		1	5	21.82	21.92	21.78	1										
		3	0	21.42	21.66	21.63	1										
		3	1	21.54	22.16	21.73	1										
		3	2	21.56	22.12	21.58	1										
		6	0	20.46	21.00	20.96	2										

ERP Power (dBm)

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)
Y	26697	814.7	-10.91	32.01	21.10	128.82	H
	26740	819.0	-10.97	32.11	21.14	130.02	
	26783	823.3	-11.19	32.32	21.13	129.72	
	26697	814.7	-20.59	32.54	11.95	15.67	V
	26740	819.0	-20.49	32.51	12.02	15.92	
	26783	823.3	-20.34	32.51	12.17	16.48	
Channel Bandwidth: 1.4 MHz / 16QAM							
Y	26697	814.7	-11.70	32.01	20.31	107.40	H
	26740	819.0	-11.75	32.11	20.36	108.64	
	26783	823.3	-11.99	32.32	20.33	107.89	
	26697	814.7	-21.64	32.54	10.90	12.30	V
	26740	819.0	-21.58	32.51	10.93	12.39	
	26783	823.3	-21.42	32.51	11.09	12.85	

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)
Y	26705	815.5	-10.84	32.02	21.18	131.22	H
	26740	819.0	-10.82	32.11	21.29	134.59	
	26775	822.5	-10.97	32.18	21.21	132.13	
	26705	815.5	-20.48	32.5	12.02	15.92	V
	26740	819.0	-20.41	32.51	12.10	16.22	
	26775	822.5	-20.26	32.47	12.21	16.63	
Channel Bandwidth: 3 MHz / 16QAM							
Y	26705	815.5	-11.49	32.02	20.53	112.98	H
	26740	819.0	-11.52	32.11	20.59	114.55	
	26775	822.5	-11.63	32.18	20.55	113.50	
	26705	815.5	-21.53	32.5	10.97	12.50	V
	26740	819.0	-21.47	32.51	11.04	12.71	
	26775	822.5	-21.35	32.47	11.12	12.94	

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)
Y	26715	816.5	-10.80	32.04	21.24	133.05	H
	26740	819.0	-10.76	32.11	21.35	136.46	
	26765	821.5	-10.51	31.79	21.28	134.28	
	26715	816.5	-20.46	32.52	12.06	16.07	V
	26740	819.0	-20.38	32.51	12.13	16.33	
	26765	821.5	-19.89	32.17	12.28	16.90	
Channel Bandwidth: 5 MHz / 16QAM							
Y	26715	816.5	-11.33	32.04	20.71	117.76	H
	26740	819.0	-11.33	32.11	20.78	119.67	
	26765	821.5	-11.05	31.79	20.74	118.58	
	26715	816.5	-21.51	32.52	11.01	12.62	V
	26740	819.0	-21.47	32.51	11.04	12.71	
	26765	821.5	-20.95	32.17	11.22	13.24	

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)
Y	26740	819.0	-10.63	32.11	21.48	140.60	H
	26740	819.0	-20.33	32.51	12.18	16.52	V
Channel Bandwidth: 10 MHz / 16QAM							
Y	26740	819.0	-11.15	32.11	20.96	124.74	H
	26740	819.0	-21.41	32.51	11.10	12.88	V

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)
Y	26765	821.5	-10.27	31.79	21.52	141.91	H
	26765	821.5	-19.96	32.17	12.21	16.63	V
Channel Bandwidth: 15 MHz / 16QAM							
Y	26765	821.5	-10.81	31.79	20.98	125.31	H
	26765	821.5	-21.02	32.17	11.15	13.03	V

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

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

(1) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission 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.P.R power - 2.15 dB.

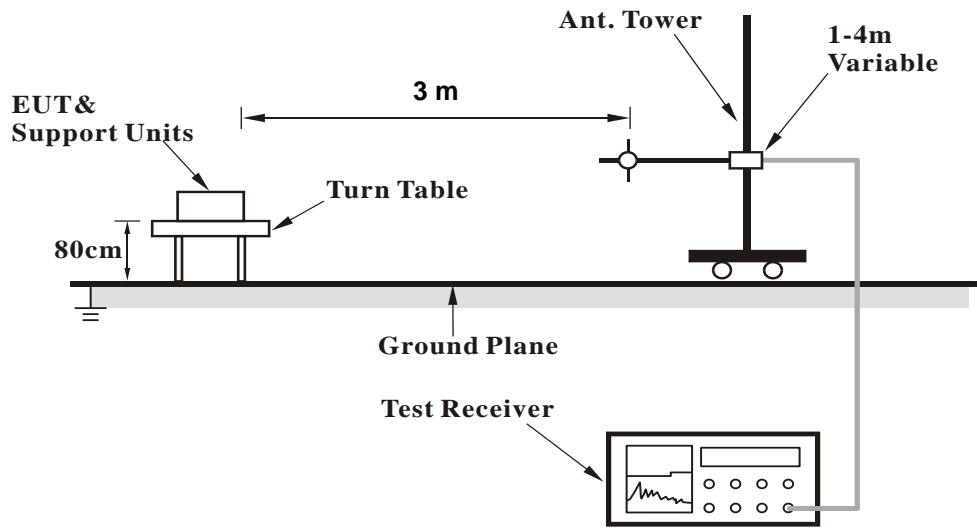
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.2.3 Deviation from Test Standard

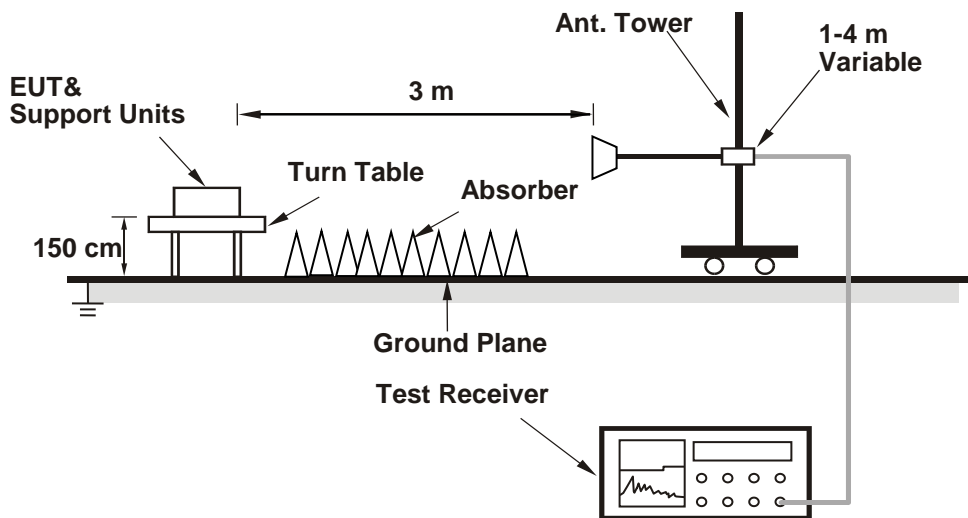
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

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

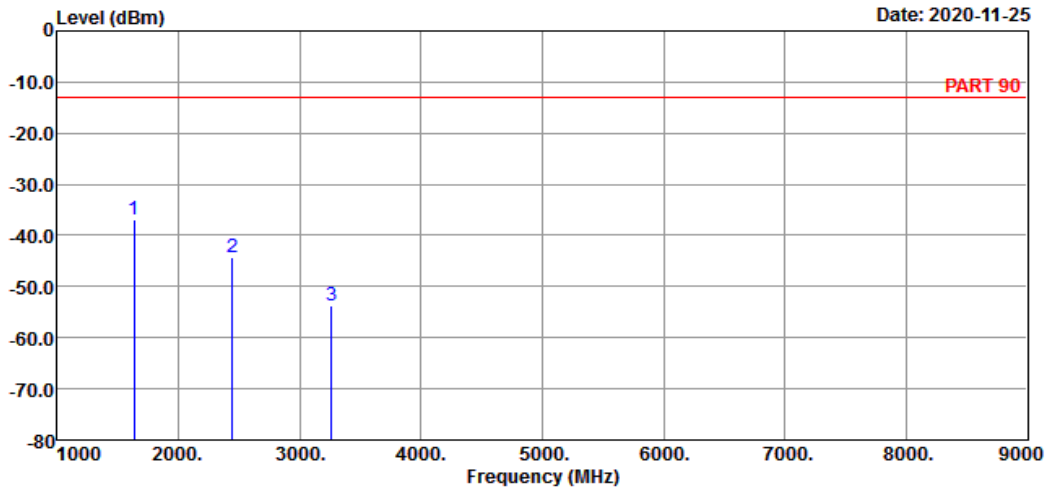


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 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	1629.40	-36.95	-22.16	-13.00	-14.79	-23.95	Peak
2	2444.10	-44.26	-33.82	-13.00	-10.44	-31.26	Peak
3	3258.80	-53.87	-44.54	-13.00	-9.33	-40.87	Peak

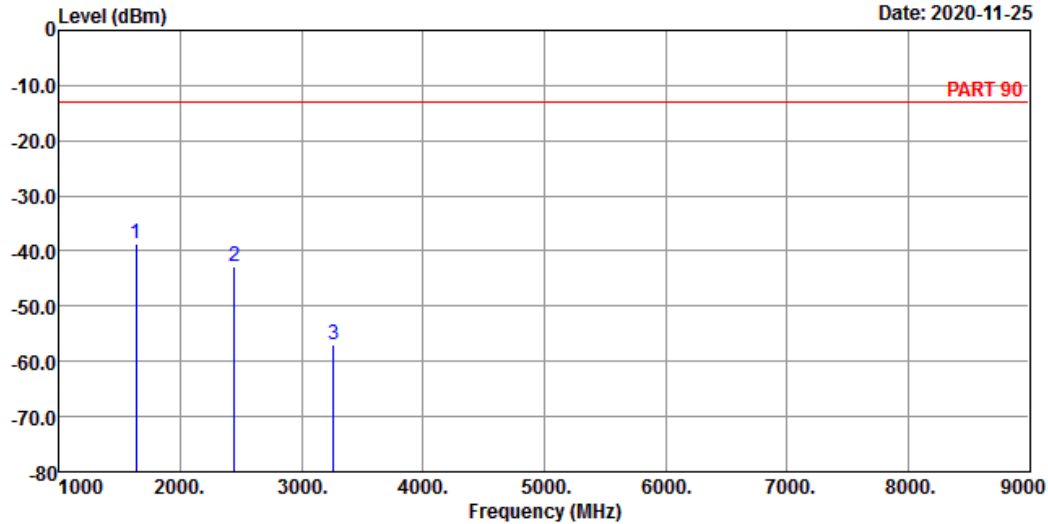


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-11-25



Site : 966 Chamber 5

Condition: PART 90 VERTICAL

Remark : 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	1629.40	-38.74	-23.95	-13.00	-14.79	-25.74	Peak
2	2444.10	-42.85	-32.41	-13.00	-10.44	-29.85	Peak
3	3258.80	-56.88	-47.55	-13.00	-9.33	-43.88	Peak

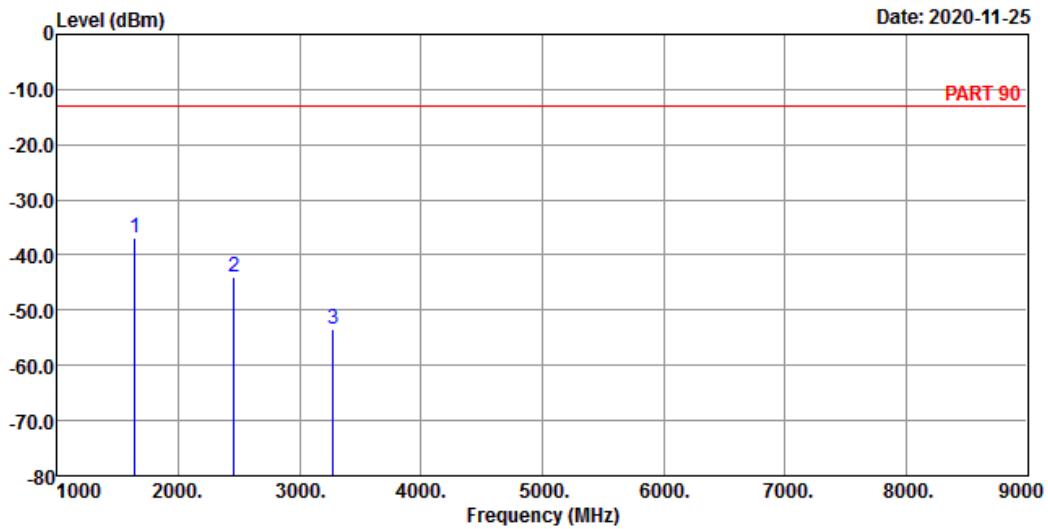
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART 90 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 1638.00	-36.76	-21.97	-13.00	-14.79	-23.76	Peak
2	2457.00	-43.97	-33.53	-13.00	-10.44	-30.97	Peak
3	3276.00	-53.48	-44.11	-13.00	-9.37	-40.48	Peak

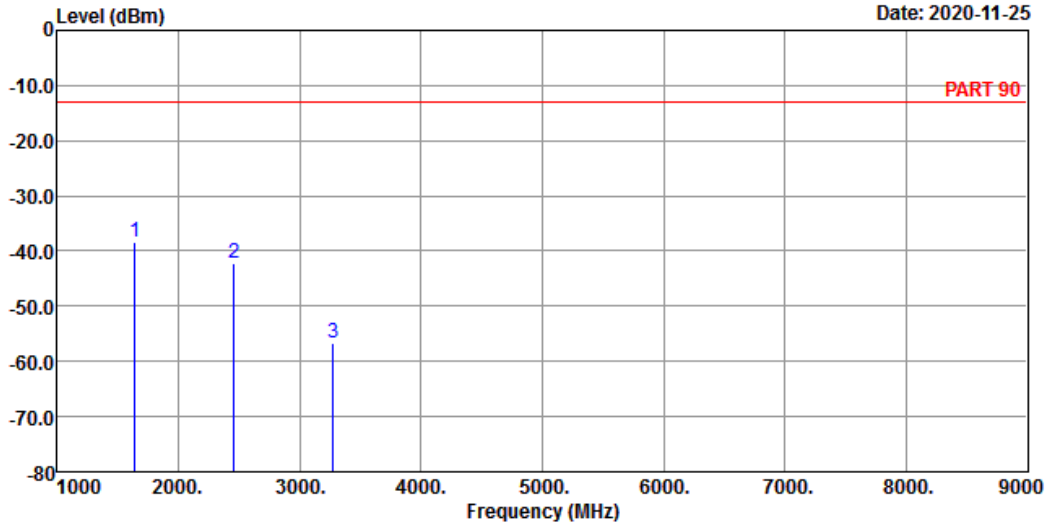


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 VERTICAL
 Remark : 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	1638.00	-38.43	-23.64	-13.00	-14.79	-25.43	Peak
2	2457.00	-42.36	-31.92	-13.00	-10.44	-29.36	Peak
3	3276.00	-56.58	-47.21	-13.00	-9.37	-43.58	Peak

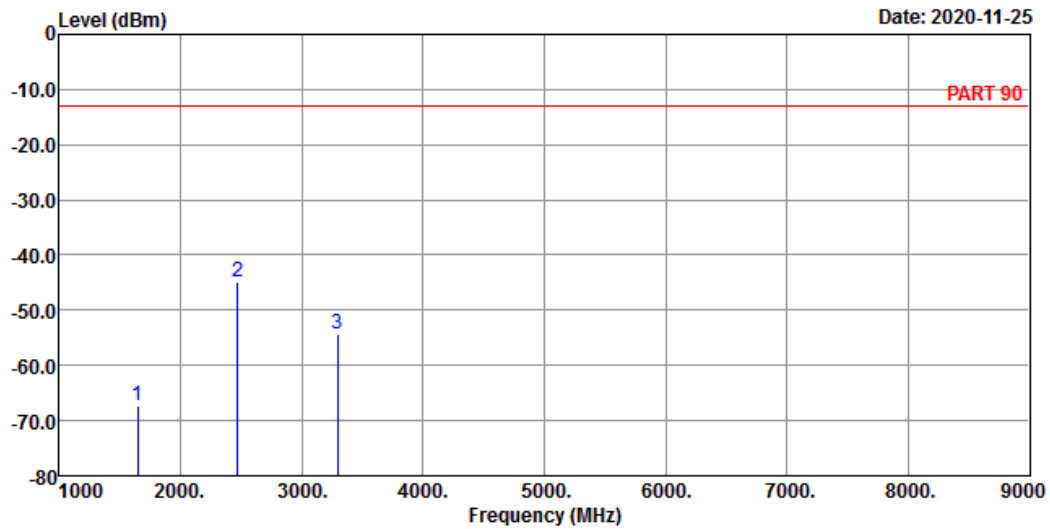
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART 90 HORIZONTAL
 Remak : LTE Band 26 QPSK_1.4M Link_H-CH
 Tested by: tim-chen

	Read	Limit	Over			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1	1646.60	-67.33	-52.60	-13.00	-14.73	-54.33 Peak
2 pp	2469.90	-44.73	-34.29	-13.00	-10.44	-31.73 Peak
3	3293.20	-54.37	-44.95	-13.00	-9.42	-41.37 Peak

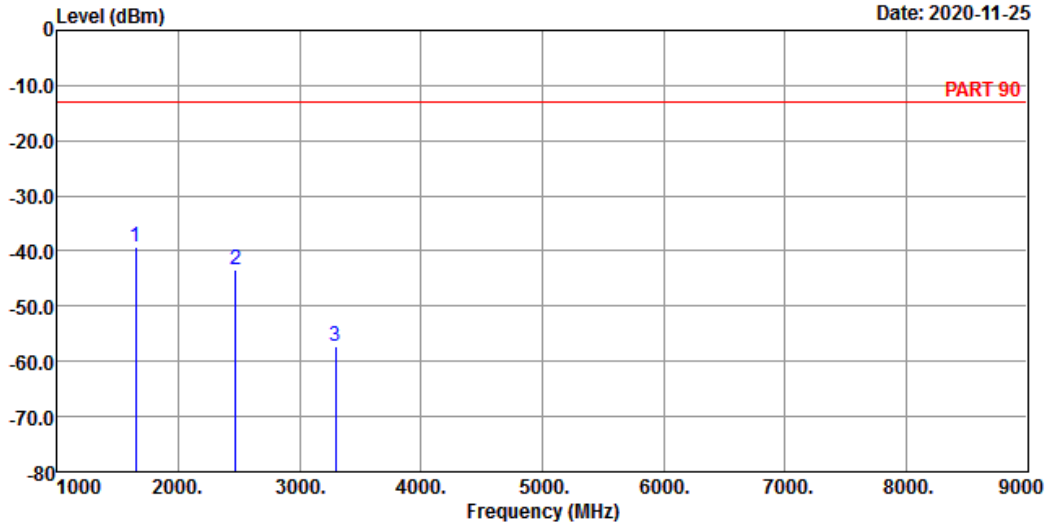


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 VERTICAL
 Remark : 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	1646.60	-39.27	-24.54	-13.00	-14.73	-26.27	Peak
2	2469.90	-43.37	-32.93	-13.00	-10.44	-30.37	Peak
3	3293.20	-57.27	-47.85	-13.00	-9.42	-44.27	Peak

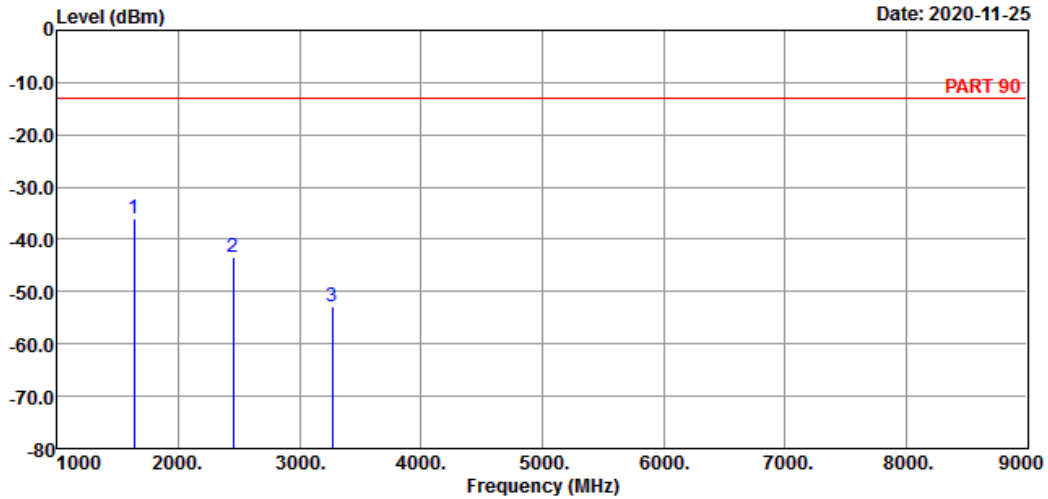
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART 90 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	1633.00	-35.95	-21.16	-13.00	-14.79	-22.95	Peak
2	2449.50	-43.31	-32.87	-13.00	-10.44	-30.31	Peak
3	3266.00	-52.86	-43.49	-13.00	-9.37	-39.86	Peak

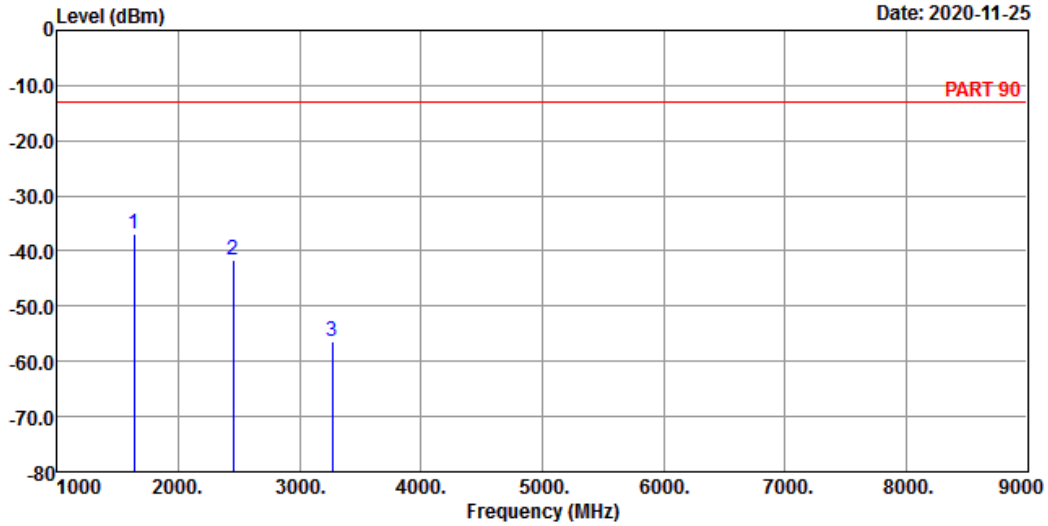


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 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	1633.00	-37.02	-22.23	-13.00	-14.79	-24.02	Peak
2	2449.50	-41.64	-31.20	-13.00	-10.44	-28.64	Peak
3	3266.00	-56.28	-46.91	-13.00	-9.37	-43.28	Peak

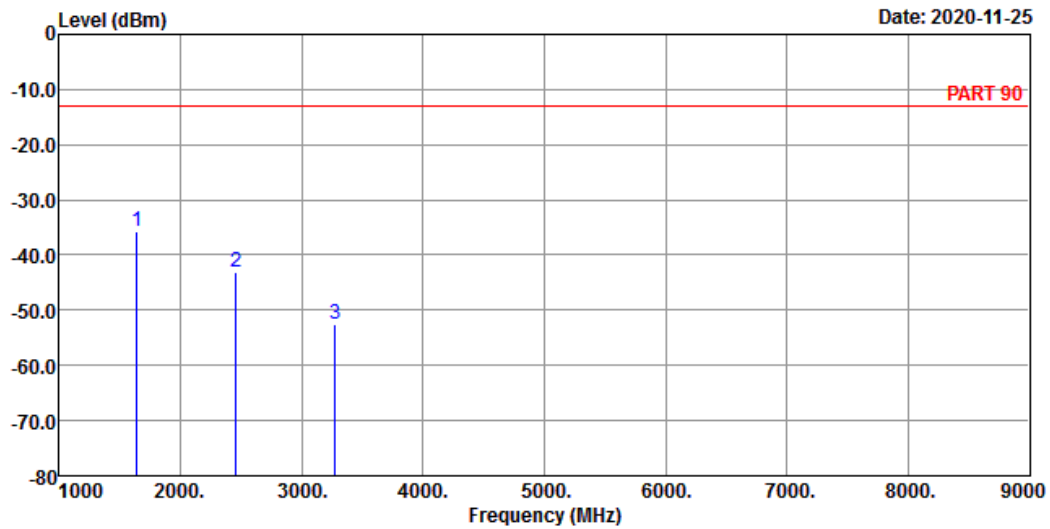
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART 90 HORIZONTAL
 Remak : LTE Band 26 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	1638.00	-35.69	-20.90	-13.00	-14.79	-22.69	Peak
2	2457.00	-42.96	-32.52	-13.00	-10.44	-29.96	Peak
3	3276.00	-52.43	-43.06	-13.00	-9.37	-39.43	Peak

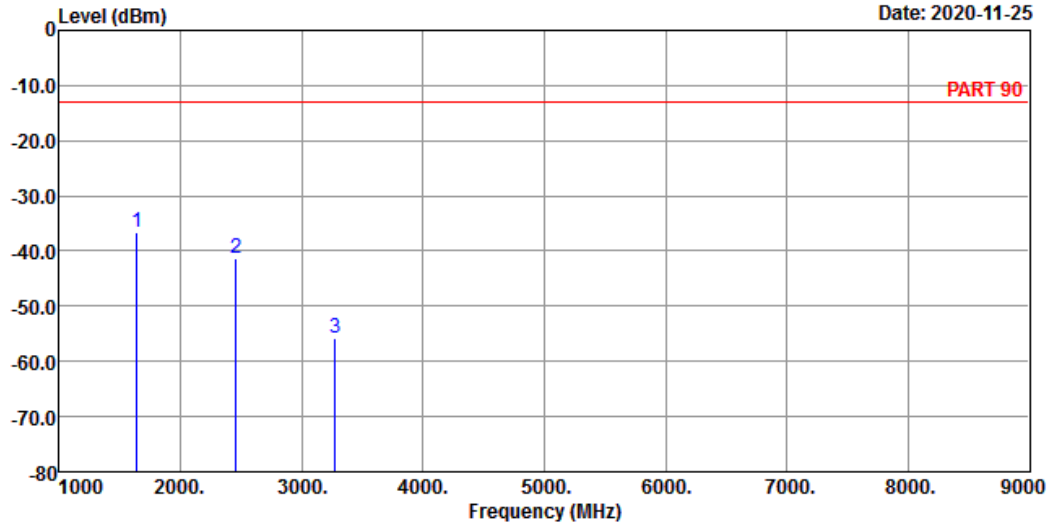


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 VERTICAL
 Remark : LTE Band 26 QPSK_5M Link_M-CH
 Tested by: tim-chen

	Read	Limit	Over				
Freq	Level	Level	Line	Factor	Limit	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1 pp	1638.00	-36.63	-21.84	-13.00	-14.79	-23.63	Peak
2	2457.00	-41.27	-30.83	-13.00	-10.44	-28.27	Peak
3	3276.00	-55.87	-46.50	-13.00	-9.37	-42.87	Peak

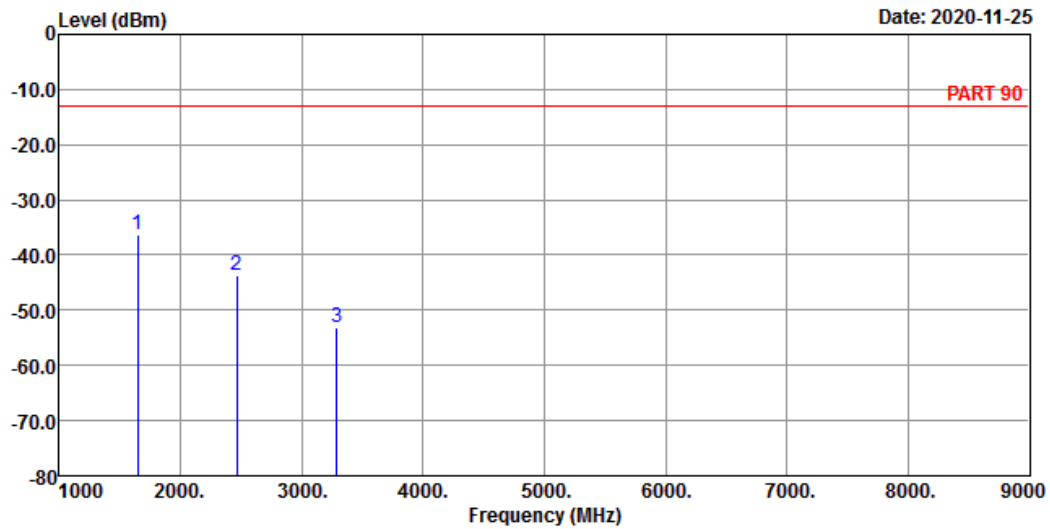
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART 90 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 1643.00	-36.22	-21.49	-13.00	-14.73	-23.22	Peak
2	2464.50	-43.58	-33.14	-13.00	-10.44	-30.58	Peak
3	3286.00	-53.27	-43.85	-13.00	-9.42	-40.27	Peak

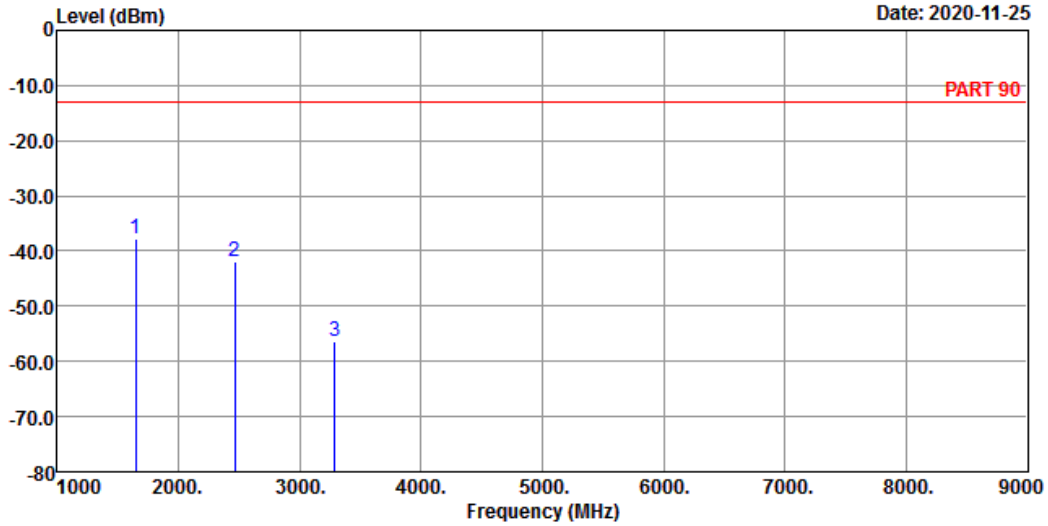


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 VERTICAL
 Remark : 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	1643.00	-37.73	-23.00	-13.00	-14.73	-24.73	Peak
2	2464.50	-42.02	-31.58	-13.00	-10.44	-29.02	Peak
3	3286.00	-56.28	-46.86	-13.00	-9.42	-43.28	Peak

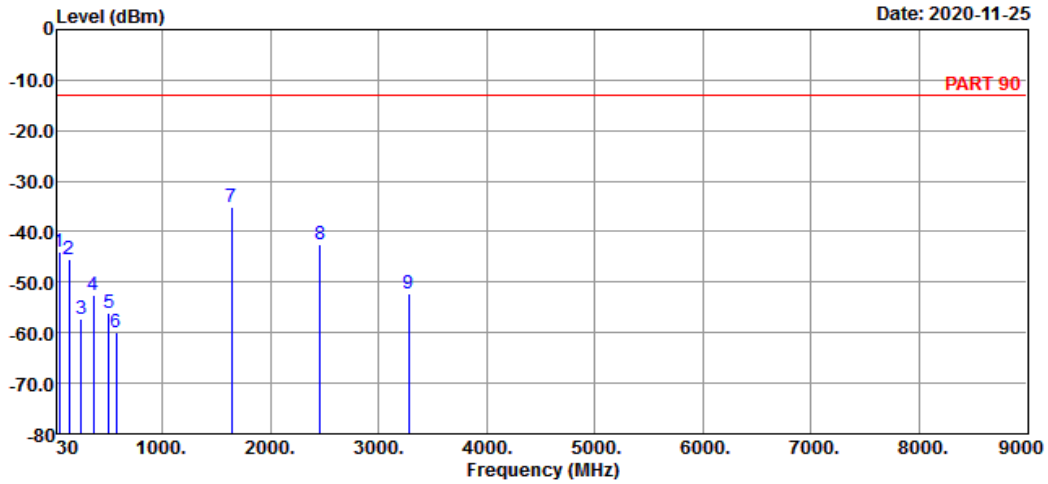
Channel Bandwidth: 10 MHz / QPSK
 Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART 90 HORIZONTAL
 Remak : LTE Band 26 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	44.55	-43.92	-41.93	-13.00	-1.99	-30.92	Peak
2	133.79	-45.55	-36.87	-13.00	-8.68	-32.55	Peak
3	250.19	-57.14	-51.15	-13.00	-5.99	-44.14	Peak
4	359.80	-52.69	-46.51	-13.00	-6.18	-39.69	Peak
5	504.33	-56.04	-51.57	-13.00	-4.47	-43.04	Peak
6	576.11	-59.95	-58.19	-13.00	-1.76	-46.95	Peak
7 pp	1638.00	-35.27	-20.48	-13.00	-14.79	-22.27	Peak
8	2457.00	-42.55	-32.11	-13.00	-10.44	-29.55	Peak
9	3276.00	-52.12	-42.75	-13.00	-9.37	-39.12	Peak

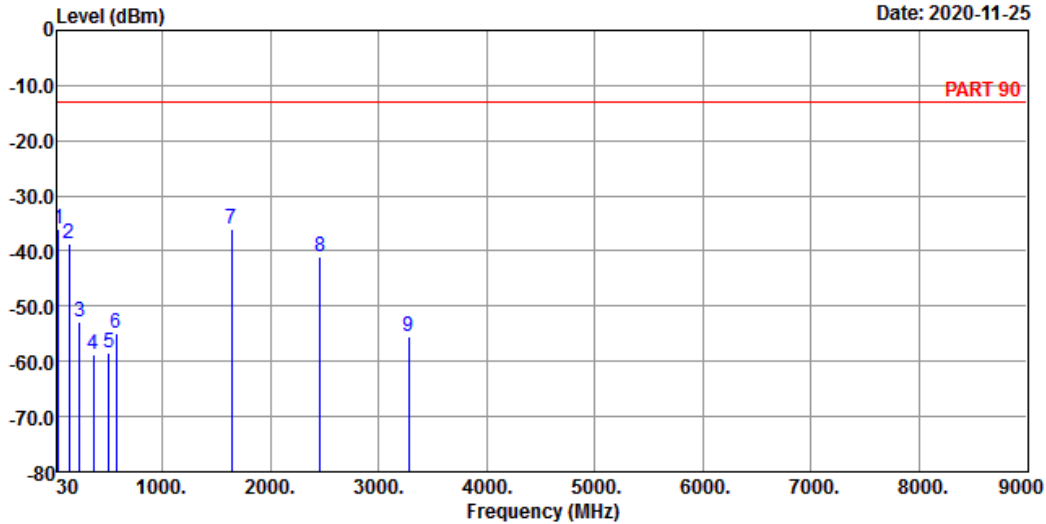


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-11-25



Site : 966 Chamber 5
 Condition: PART 90 VERTICAL
 Remak : LTE Band 26 QPSK_10M Link_M-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Over Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-36.00	-35.06	-13.00	-0.94	-23.00	Peak
2	139.61	-38.79	-30.14	-13.00	-8.65	-25.79	Peak
3	238.55	-52.91	-46.45	-13.00	-6.46	-39.91	Peak
4	359.80	-58.66	-52.48	-13.00	-6.18	-45.66	Peak
5	504.33	-58.42	-53.95	-13.00	-4.47	-45.42	Peak
6	576.11	-54.85	-53.09	-13.00	-1.76	-41.85	Peak
7	1638.00	-36.06	-21.27	-13.00	-14.79	-23.06	Peak
8	2457.00	-40.95	-30.51	-13.00	-10.44	-27.95	Peak
9	3276.00	-55.46	-46.09	-13.00	-9.37	-42.46	Peak

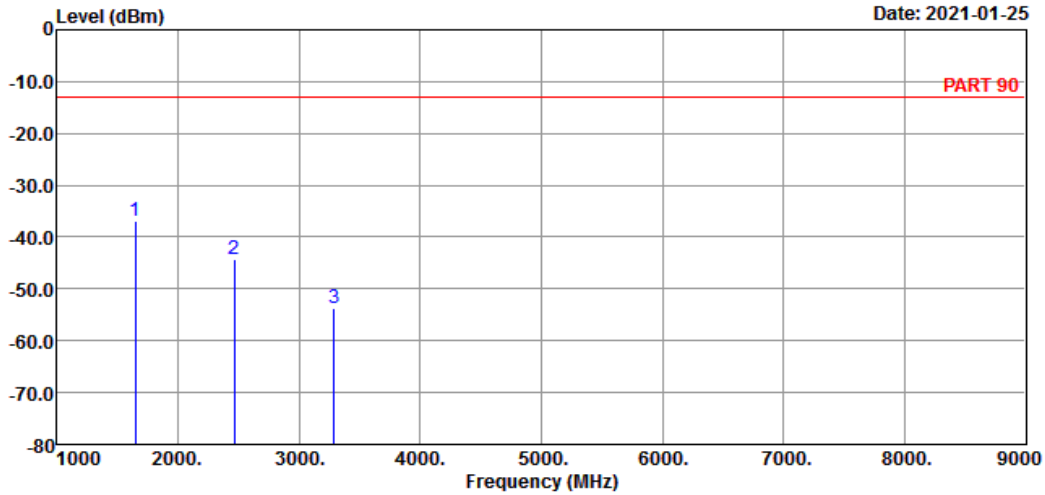
Channel Bandwidth: 15 MHz / QPSK
 High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART 90 HORIZONTAL
 Remak : LTE Band 26 QPSK_15M Link_H-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Over Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1643.00	-36.98	-22.25	-13.00	-14.73	-23.98	Peak
2	2464.50	-44.17	-33.73	-13.00	-10.44	-31.17	Peak
3	3286.00	-53.78	-44.36	-13.00	-9.42	-40.78	Peak

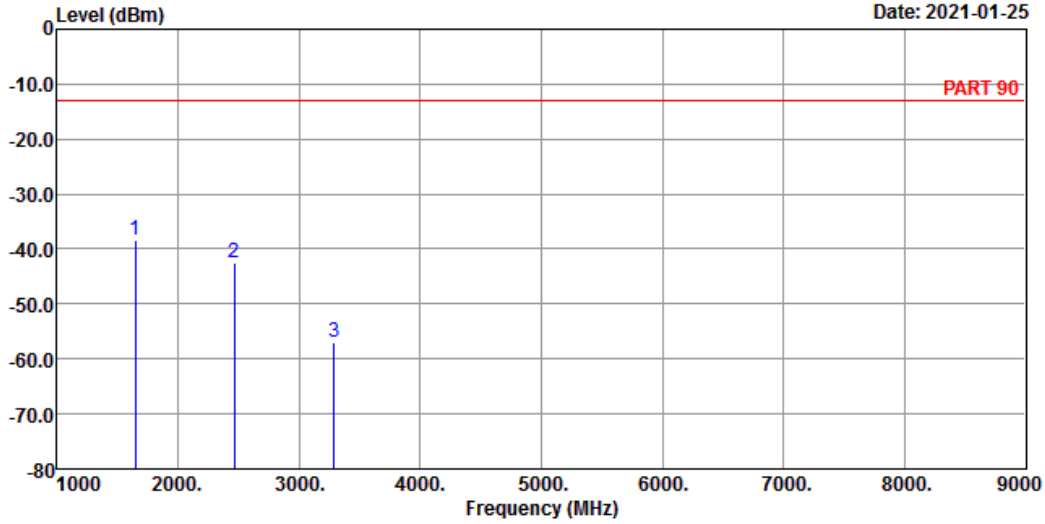


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-01-25



Site : 966 Chamber 5
 Condition: PART 90 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	1643.00	-38.34	-23.61	-13.00	-14.73	-25.34	Peak
2	2464.50	-42.64	-32.20	-13.00	-10.44	-29.64	Peak
3	3286.00	-56.84	-47.42	-13.00	-9.42	-43.84	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:

Lin Kou 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 Lab

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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