



Test Report No.: W7L-P23120015RI04



# IC TEST REPORT (RSS-139)

Applicant:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America

Manufacturer or Supplier:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America
Product:	M SoM
Brand Name:	Particle
Model Name:	M404
IC:	20127-M404
Date of tests:	Dec. 27, 2023 ~ Mar. 10, 2024

The tests have been carried out according to the requirements of the following standard:

- RSS-139 Issue 4, September 29, 2022
- RSS-Gen Issue 5, Amendment 1, March 2019
- ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department

Date: Mar. 10, 2024

Date: Mar. 10, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



## TABLE OF CONTENTS

<b>RELEASE CONTROL RECORD .....</b>	<b>4</b>
<b>1 SUMMARY OF TEST RESULTS .....</b>	<b>5</b>
1.1 MEASUREMENT UNCERTAINTY .....	6
1.2 TEST SITE AND INSTRUMENTS .....	7
<b>2 GENERAL INFORMATION.....</b>	<b>8</b>
2.1 GENERAL DESCRIPTION OF EUT .....	8
2.2 CONFIGURATION OF SYSTEM UNDER TEST .....	11
2.3 DESCRIPTION OF SUPPORT UNITS.....	12
2.4 DESCRIPTION OF TEST MODES.....	12
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS .....	18
2.6 TRANSMIT ANTENNA .....	18
<b>3 TEST TYPES AND RESULTS .....</b>	<b>19</b>
3.1 OUTPUT POWER MEASUREMENT AND POWER CONTROL .....	19
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT .....	19
3.1.2 TEST PROCEDURES .....	19
3.1.3 TEST SETUP .....	20
3.1.4 TEST RESULTS .....	21
3.2 FREQUENCY STABILITY MEASUREMENT .....	22
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT .....	22
3.2.2 TEST PROCEDURE .....	22
3.2.3 TEST SETUP .....	22
3.2.4 TEST RESULTS .....	23
3.3 OCCUPIED BANDWIDTH MEASUREMENT .....	24
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT .....	24
3.3.2 TEST SETUP .....	24
3.3.3 TEST PROCEDURES .....	24
3.3.4 TEST RESULTS .....	25
3.4 PEAK TO AVERAGE RATIO .....	26
3.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT .....	26
3.4.2 TEST SETUP .....	26
3.4.3 TEST PROCEDURES .....	26
3.4.4 TEST RESULTS .....	27
3.5 BAND EDGE MEASUREMENT .....	28
3.5.1 LIMITS OF BAND EDGE MEASUREMENT .....	28
3.5.2 TEST SETUP .....	28
3.5.3 TEST PROCEDURES .....	29
3.5.4 TEST RESULTS .....	30
3.6 CONDUCTED SPURIOUS EMISSIONS.....	31
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT .....	31
3.6.2 TEST PROCEDURE .....	31
3.6.3 TEST SETUP .....	31
3.6.4 TEST RESULTS .....	32
3.7 RADIATED EMISSION MEASUREMENT .....	33
3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT .....	33
3.7.2 TEST PROCEDURES .....	33
3.7.3 DEVIATION FROM TEST STANDARD .....	33
3.7.4 TEST SETUP .....	34



Test Report No.: W7L-P23120015RI04

3.7.5 TEST RESULTS .....	36
<b>4 INFORMATION ON THE TESTING LABORATORIES .....</b>	<b>54</b>
<b>5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB</b>	<b>55</b>
<b>6 APPENDIX .....</b>	<b>56</b>

DRAFT



Test Report No.: W7L-P23120015RI04

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23120015RI04	Original release	Mar. 10, 2024

DRAFT



Test Report No.: W7L-P23120015RI04

## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: IC RSS-139, RSS-Gen		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
RSS-Gen	6.7 Occupied Bandwidth	Compliance
RSS-Gen	6.8 Transmit antenna	Compliance
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
RSS-139	5.4 Frequency Stability AFC Freq. Error vs. Voltage AFC Freq. Error vs. Temperature	Compliance
RSS-139	5.5 Maximum Peak Output Power	Compliance
RSS-139	5.5 peak-to-average power ratio	Compliance
RSS-139	5.6 Band Edge Measurements	Compliance
RSS-139	5.6 Conducted Spurious Emissions	Compliance
RSS-139	5.6 Radiated Spurious Emissions	Compliance
RSS-139	5.7 Transmitter Power Control	Compliance



Test Report No.: W7L-P23120015RI04

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 V1.4.1(2001-12):

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Test Report No.: W7L-P23120015RI04

## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,23	Feb. 17,24
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 17,24	Feb. 16,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 17,24	Feb. 16,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,23	Feb. 13,24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 13,24	Feb. 12,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb.16,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb.16,24	Feb.15,25
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,23	May. 05,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 13,24	Feb. 12,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 13,24	Feb. 12,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,23	May. 05,24
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,23	Feb. 13,24
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 13,24	Feb. 12,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,23	May.09,24
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRRG/CHINA and NIM/CHINA.
  2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
  3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC Company Number is 21771; The CAB Identifier No. is CN0007.



Test Report No.: W7L-P23120015RI04

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

EUT	M SoM	
BRAND NAME	Particle	
MODEL NAME	M404	
POWER SUPPLY	VCC: 3.8V. 3V3:3.3V	
MODULATION TYPE	LTE	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~ 1750.0MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720.0MHz ~ 1745.0MHz
	LTE Band 66 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1779.3MHz
	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz
	LTE Band 66 Channel Bandwidth: 10MHz	1715.0MHz ~ 1775.0MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720.0MHz ~ 1770.0MHz
EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 1M13G7D
		16QAM: 1M13W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 1M23G7D
		16QAM: 1M23W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 1M98G7D
		16QAM: 1M98W7D



Test Report No.: W7L-P23120015RI04

EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 15MHz	64QAM: / QPSK: 2M79G7D 16QAM: 2M79W7D 64QAM: /
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 4M32G7D 16QAM: 4M32W7D 64QAM: /
	LTE Band 66 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D 16QAM: 1M10W7D 64QAM: /
	LTE Band 66 Channel Bandwidth: 3MHz	QPSK: 1M14G7D 16QAM: 1M13W7D 64QAM: /
	LTE Band 66 Channel Bandwidth: 5MHz	QPSK: 1M23G7D 16QAM: 1M23W7D 64QAM: /
	LTE Band 66 Channel Bandwidth: 10MHz	QPSK: 1M76G7D 16QAM: 1M78W7D 64QAM: /
	LTE Band 66 Channel Bandwidth: 15MHz	QPSK: 2M61G7D 16QAM: 2M61W7D 64QAM: /
	LTE Band 66 Channel Bandwidth: 20MHz	QPSK: 4M04G7D 16QAM: 4M04W7D 64QAM: /
MAX. EIRP/ERP POWER	LTE Band 4 Channel Bandwidth: 1.4MHz	693.43mW
	LTE Band 4 Channel Bandwidth: 3MHz	739.61mW
	LTE Band 4 Channel Bandwidth: 5MHz	714.50mW
	LTE Band 4 Channel Bandwidth: 10MHz	693.43mW
	LTE Band 4 Channel Bandwidth: 15MHz	701.46mW
	LTE Band 4 Channel Bandwidth: 20MHz	699.84mW
	LTE Band 66 Channel Bandwidth: 1.4MHz	797.99mW
	LTE Band 66 Channel Bandwidth: 3MHz	807.24mW



Test Report No.: W7L-P23120015RI04

	<b>LTE Band 66</b> <b>Channel Bandwidth: 5MHz</b>	903.65mW
	<b>LTE Band 66</b> <b>Channel Bandwidth: 10MHz</b>	914.11mW
	<b>LTE Band 66</b> <b>Channel Bandwidth: 15MHz</b>	920.45mW
	<b>LTE Band 66</b> <b>Channel Bandwidth: 20MHz</b>	926.83mW
<b>ANTENNA TYPE</b>	Fixed External Antenna with 5.3dBi gain for LTE B4 Fixed External Antenna with 5.3dBi gain for LTE B66	
<b>HW VERSION</b>	v0.2	
<b>SW VERSION</b>	v5.5.2	
<b>I/O PORTS</b>	Refer to user's manual	
<b>CABLE SUPPLIED</b>	N/A	
<b>EXTREME TEMPERATURE</b>	-35-75 °C	
<b>EXTREME VOLTAGE</b>	VCC: 3.3V. 3V3:3.0V- VCC: 4.3V. 3V3:3.6V	

**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

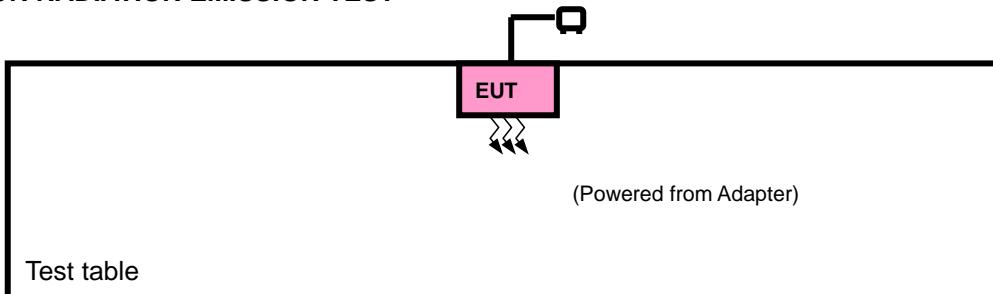
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



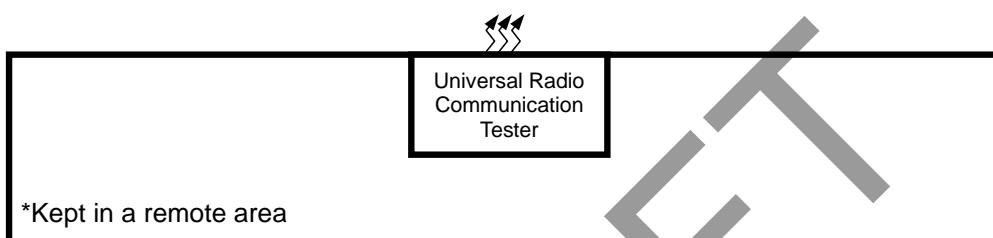
Test Report No.: W7L-P23120015RI04

## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

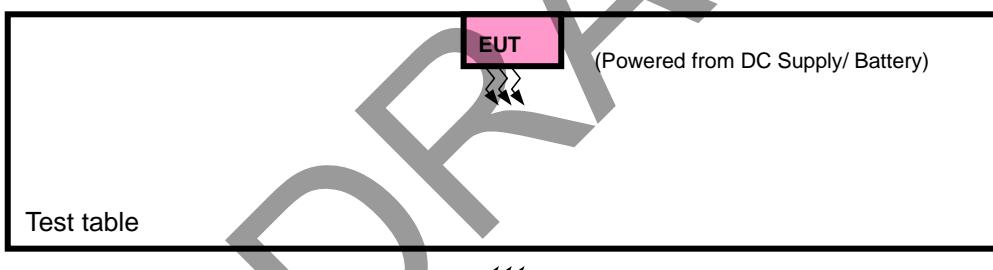
### FOR RADIATION EMISSION TEST



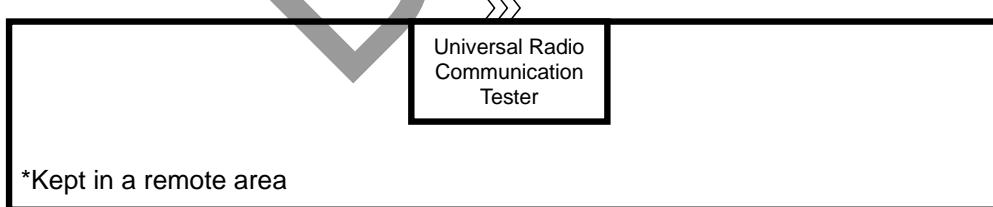
Test table



\*Kept in a remote area



Test table



\*Kept in a remote area



Test Report No.: W7L-P23120015RI04

## 2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

## 2.4 DESCRIPTION OF TEST MODES

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 on X-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with WCDMA or LTE link
B	EUT + DC Supply with WCDMA or LTE link



Test Report No.: W7L-P23120015RI04

## LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
B	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	19957 to 20393	19957, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20385	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20375	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20300	20MHz	QPSK	1 RB / 0 RB Offset
B	OCCUPIED BANDWIDTH	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
B	PEAK TO AVERAGE RATIO	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	BAND EDGE	19957 to 20393	19957	1.4MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		19965 to 20385	20393	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		19975 to 20375	19965	3MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		19975 to 20375	20385	3MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		19975 to 20375	20375	5MHz	QPSK	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		20000 to 20350	20000	10MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20000 to 20350	20350	10MHz	QPSK	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
						1 RB / 49 RB Offset
						50 RB / 0 RB Offset



Test Report No.: W7L-P23120015RI04

B	BAND EDGE	20025 to 20325	20025	15MHz	QPSK	1 RB / 0 RB Offset
			20325	15MHz		75 RB / 0 RB Offset
		20050 to 20300	20050	20MHz	QPSK	1 RB / 74 RB Offset
			20300	20MHz		75 RB / 0 RB Offset
B	CONDCUDETED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB / 0 RB Offset

**Note:** 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 4 are covered by LTE Band 66, Because it is a subset of LTE Band 66 with the same output power and supported bandwidths, So RSE test data please refer to LTE Band 66



Test Report No.: W7L-P23120015RI04

## LTE BAND 66 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	132022 to 132622	132022,132322,132622	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	132072 to 132572	132072,132322,132572	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset
A	BAND EDGE	131979 to 132322	131979	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
		131979 to 132322	132322	1.4MHz	QPSK, 16QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			132657	3MHz	QPSK, 16QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		131987 to 132657	131987	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			132657	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		131997 to 132647	131997	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			132647	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset

**Test Report No.: W7L-P23120015RI04**

		132597	15MHz	QPSK, 16QAM	1 RB / 74 RB Offset	
					75 RB / 0 RB Offset	
	132072 to 132572	132072	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset	
		132572	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset	
A	CONDUCTED EMISSION	131979 to 132665	131979,132322,132665	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	132322	3MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	132322	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132322	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132322	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 Report No.: W7L-P23120015RI04

**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	AC 120V/60Hz	Jace Hu
FREQUENCY STABILITY	24deg. C, 61%RH	DC 3.3V/3.8V/4.3V	James Fu
OCCUPIED BANDWIDTH	24deg. C, 61%RH	AC 120V/60Hz	James Fu
PEAK TO AVERAGE RATIO	24deg. C, 61%RH	AC 120V/60Hz	James Fu
BAND EDGE	24deg. C, 61%RH	AC 120V/60Hz	James Fu
CONDUCTED EMISSION	24deg. C, 61%RH	AC 120V/60Hz	Jace Hu
RADIATED EMISSION	26deg. C, 56%RH	AC 120V/60Hz	James Fu

DRAFT



Test Report No.: W7L-P23120015RI04

## 2.5 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:

**Canada RSS-139, Issue 4, September 29, 2022**

**Canada RSS-Gen, Issue 5, Amendment 1, March 2019**

**ANSI C63.26 - 2015**

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

## 2.6 TRANSMIT ANTENNA

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

Antenna Type	Fixed External Antenna
Antenna Gain	5.3dBi gain for LTE B4/ LTE B66
Impedance	50 Ω



### 3 TEST TYPES AND RESULTS

#### 3.1 OUTPUT POWER MEASUREMENT AND POWER CONTROL

##### 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

##### 3.1.2 TEST PROCEDURES

###### EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_c$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_c$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

$$\text{ERP}=\text{EIRP}-2.15$$

###### CONDUCTED POWER MEASUREMENT:

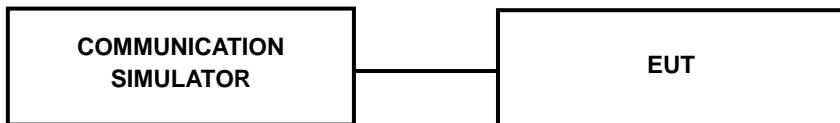
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



Test Report No.: W7L-P23120015RI04

### 3.1.3 TEST SETUP

#### CONDUCTED POWER MEASUREMENT:



DRAFT



Test Report No.: W7L-P23120015RI04

### 3.1.4 TEST RESULTS

#### CONDUCTED OUTPUT POWER (dBm)

Please Refer to Appendix Of this test report.

DRAFT



## 3.2 FREQUENCY STABILITY MEASUREMENT

### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

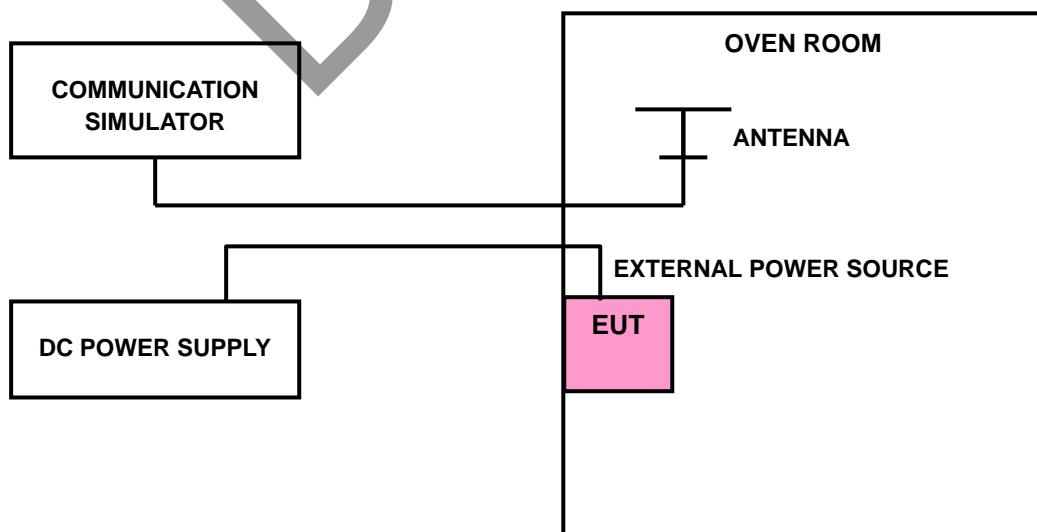
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

### 3.2.3 TEST SETUP





Test Report No.: W7L-P23120015RI04

### 3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

Note: 1. VL = Low voltage(VCC: 3.3V); VN/NV = Normal voltage(VCC: 3.8V); VH = High voltage(VCC: 4.3V);

NT = Normal temperature (25°C)

2. The frequency fundamental emissions stay within the authorized frequency block.

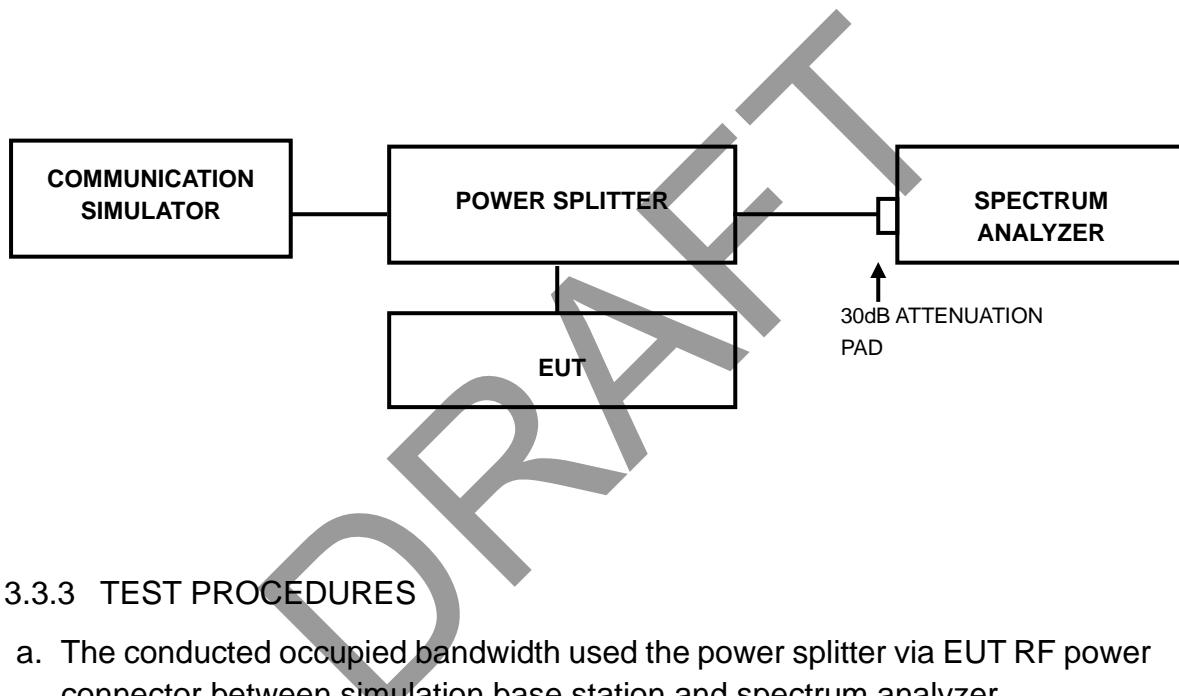
DRAFT

### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

#### 3.3.2 TEST SETUP



#### 3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: W7L-P23120015RI04

### 3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

DRAFT

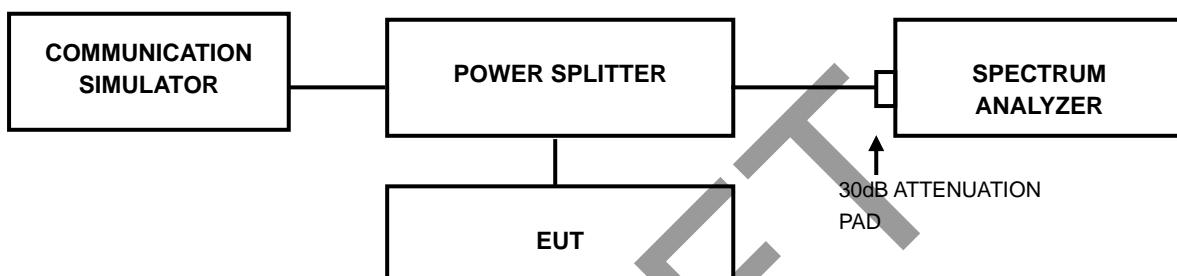


### 3.4 PEAK TO AVERAGE RATIO

#### 3.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.4.2 TEST SETUP



#### 3.4.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



Test Report No.: W7L-P23120015RI04

### 3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

DRAFT

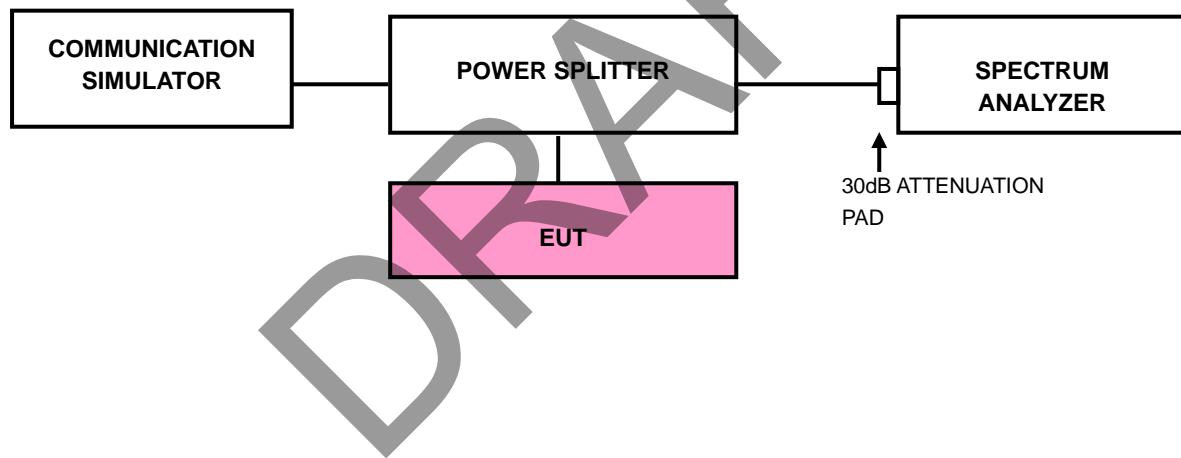
### 3.5 BAND EDGE MEASUREMENT

#### 3.5.1 LIMITS OF BAND EDGE MEASUREMENT

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### 3.5.2 TEST SETUP





### 3.5.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) Set the resolution bandwidth (RBW)  $\geq 1\% \text{ EBW}$  in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to  $\geq 3 \times \text{RBW}$ .
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to  $\geq 1001$ .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.



Test Report No.: W7L-P23120015RI04

### 3.5.4 TEST RESULTS

Please Refer to Appendix Of this test report.

DRAFT

### 3.6 CONDUCTED SPURIOUS EMISSIONS

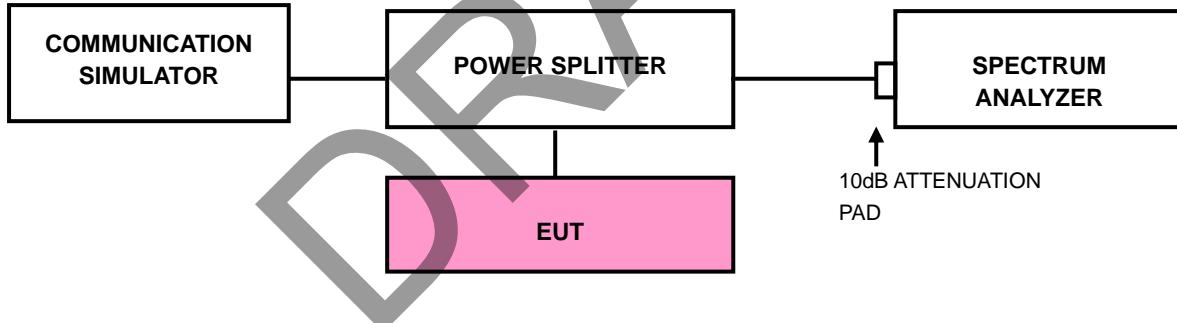
#### 3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission equal to  $-13\text{dBm}$ .

#### 3.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

#### 3.6.3 TEST SETUP





Test Report No.: W7L-P23120015RI04

### 3.6.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

DRAFT



### 3.7 RADIATED EMISSION MEASUREMENT

#### 3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission equal to  $-13\text{dBm}$

#### 3.7.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m 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.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$ .

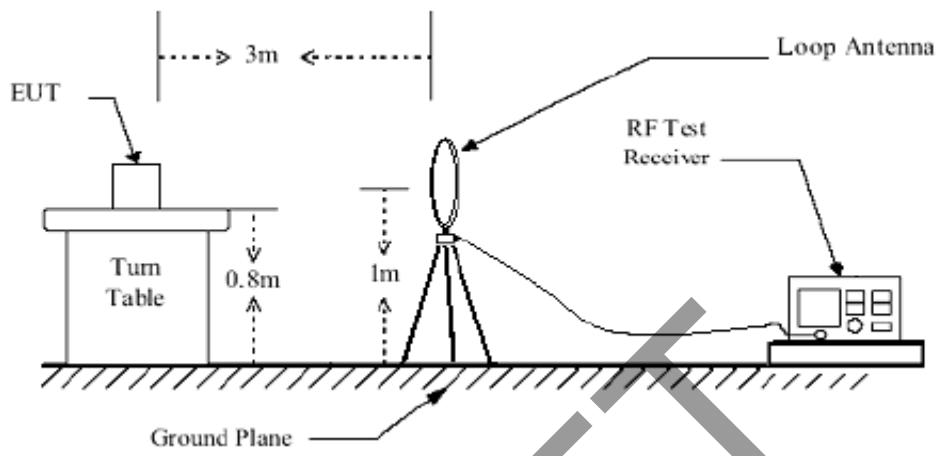
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

#### 3.7.3 DEVIATION FROM TEST STANDARD

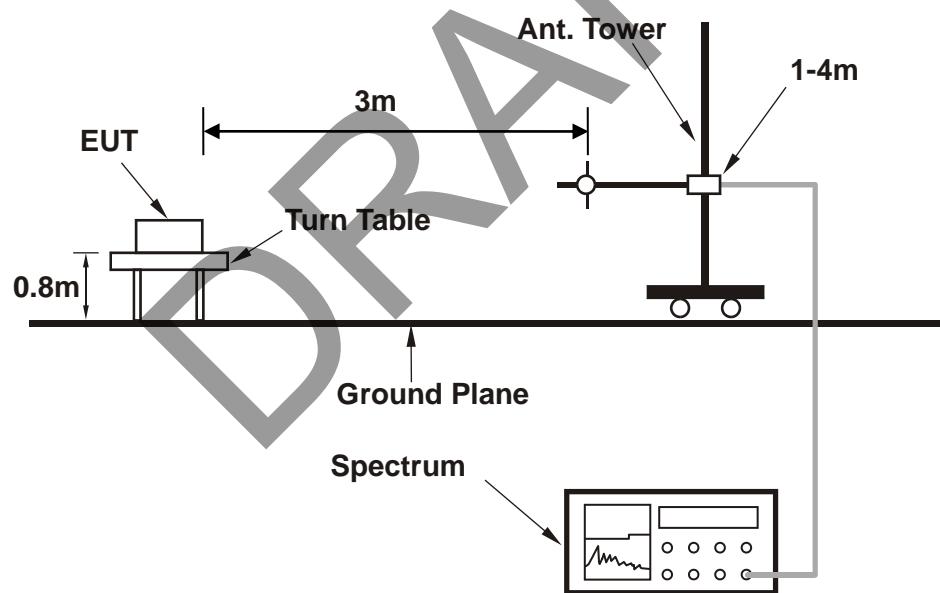
No deviation

### 3.7.4 TEST SETUP

#### < Frequency Range below 30MHz >



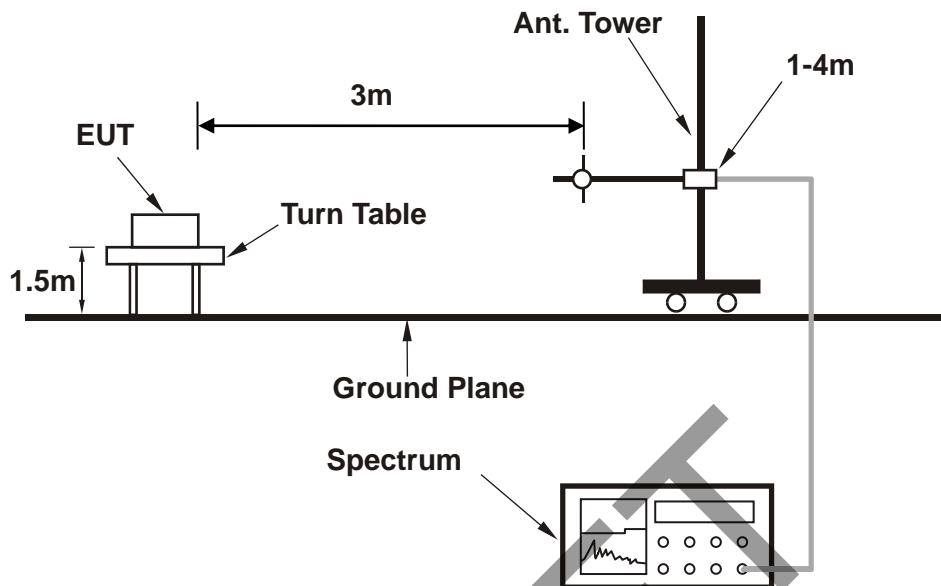
#### < Frequency Range 30MHz~1GHz >





Test Report No.: W7L-P23120015RI04

< Frequency Range above 1GHz >



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

DRAFT



Test Report No.: W7L-P23120015RI04

### 3.7.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

#### BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

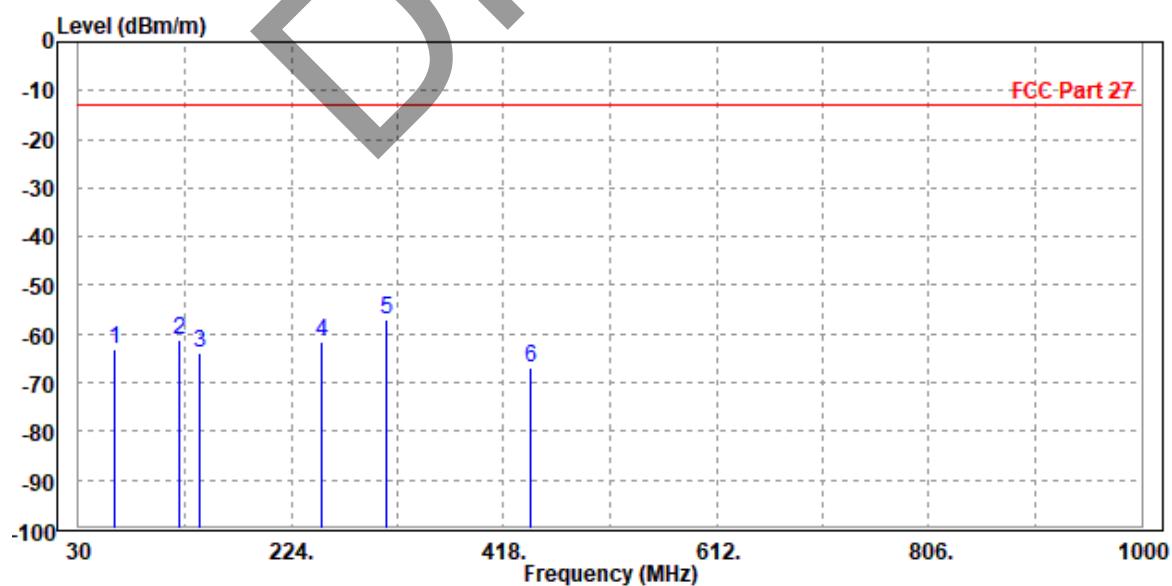
LTE Band 66:

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Freq MHz	Level dBm/m	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		dBm	dBm/m	dB	dB/m		
1	62.980	-63.26	-50.88	-13.00	-50.26	-12.38 Peak	Horizontal
2	121.180	-61.31	-45.59	-13.00	-48.31	-15.72 Peak	Horizontal
3	140.580	-64.06	-49.11	-13.00	-51.06	-14.95 Peak	Horizontal
4	252.130	-61.52	-50.43	-13.00	-48.52	-11.09 Peak	Horizontal
5 PP	310.330	-56.89	-48.28	-13.00	-43.89	-8.61 Peak	Horizontal
6	442.250	-66.76	-60.65	-13.00	-53.76	-6.11 Peak	Horizontal

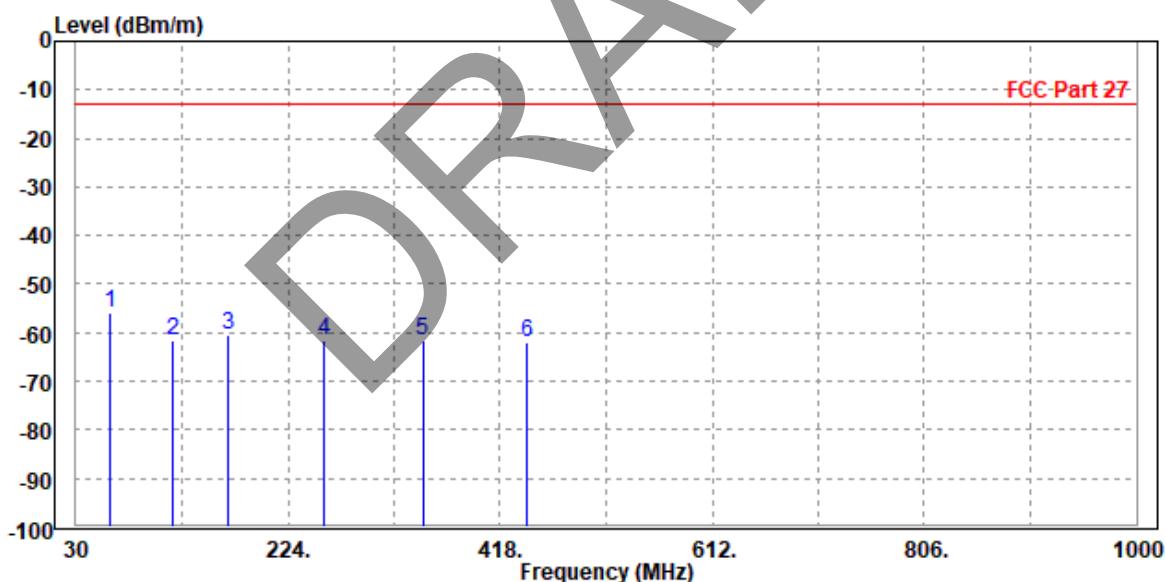




Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Line	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	62.010	-56.05	-37.33	-13.00	-43.05	-18.72 Peak	Vertical
2	118.270	-61.64	-45.41	-13.00	-48.64	-16.23 Peak	Vertical
3	168.710	-60.46	-49.51	-13.00	-47.46	-10.95 Peak	Vertical
4	256.980	-61.53	-57.84	-13.00	-48.53	-3.69 Peak	Vertical
5	347.190	-61.75	-57.99	-13.00	-48.75	-3.76 Peak	Vertical
6	443.220	-62.00	-57.38	-13.00	-49.00	-4.62 Peak	Vertical





Test Report No.: W7L-P23120015RI04

### ABOVE 1GHz

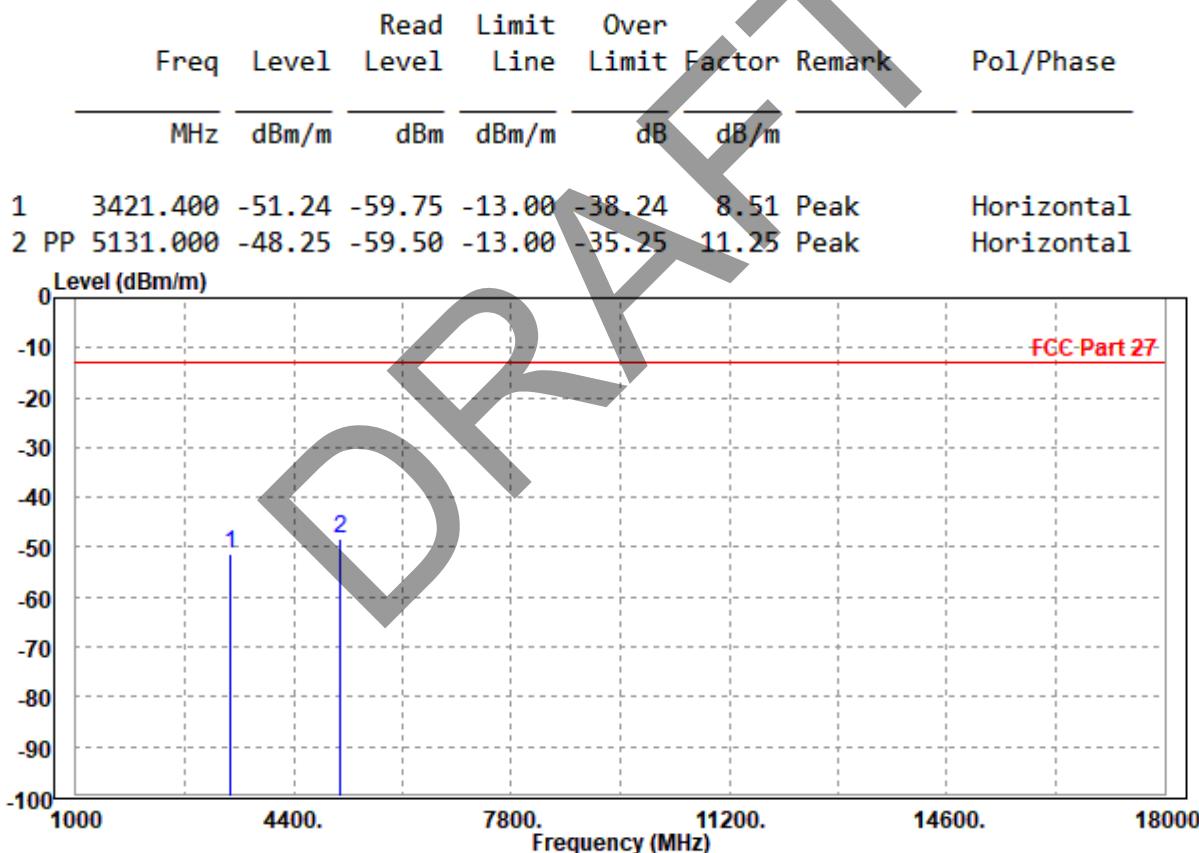
Note: For higher frequency, the emission is too low to be detected.

### LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH 131979

MODE	TX channel 131979	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

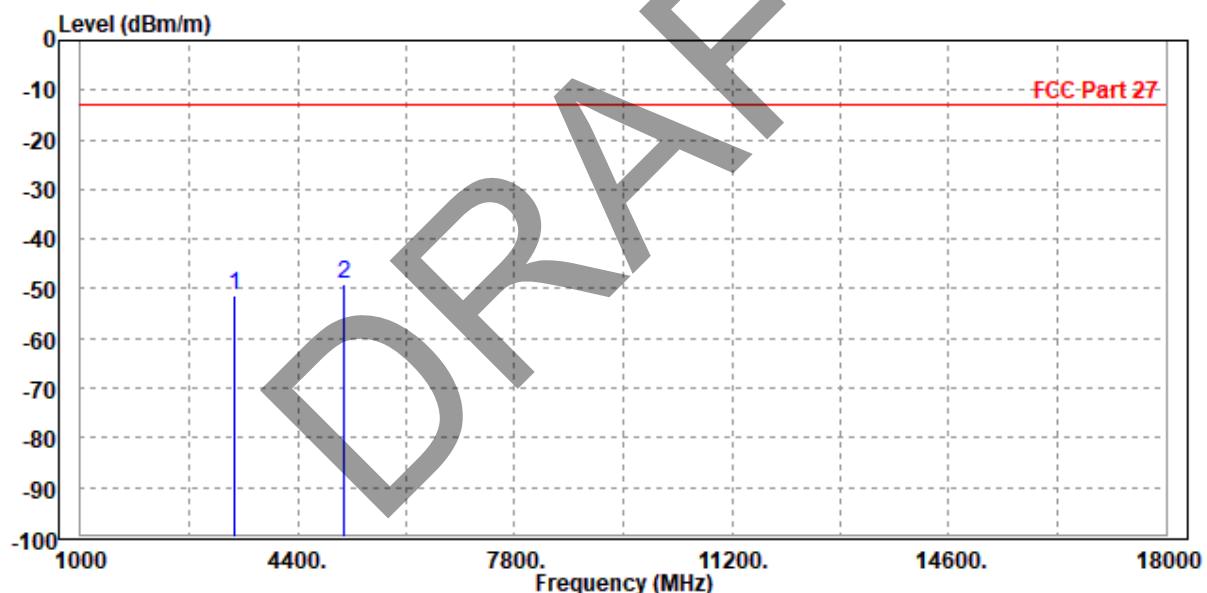




Test Report No.: W7L-P23120015RI04

MODE	TX channel 131979	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq MHz	Read Level dBm/m	Limit Level dBm	Over Line Limit dBm/m	Over Line Factor dB	Over Line Factor dB/m	Remark	Pol/Phase
1 3414.000	-51.45	-60.12	-13.00	-38.45	8.67	Peak	Vertical
2 PP 5132.100	-49.01	-60.64	-13.00	-36.01	11.63	Peak	Vertical

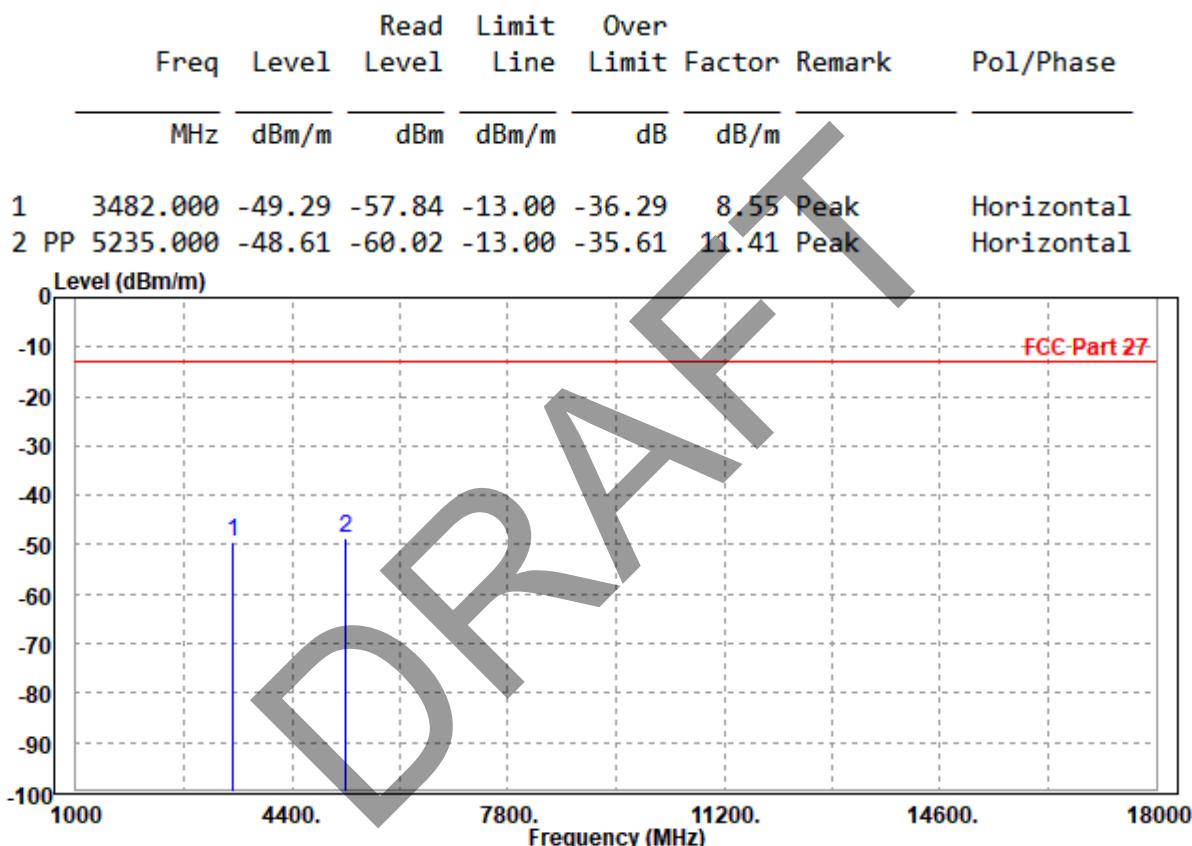




Test Report No.: W7L-P23120015RI04

CH 132322

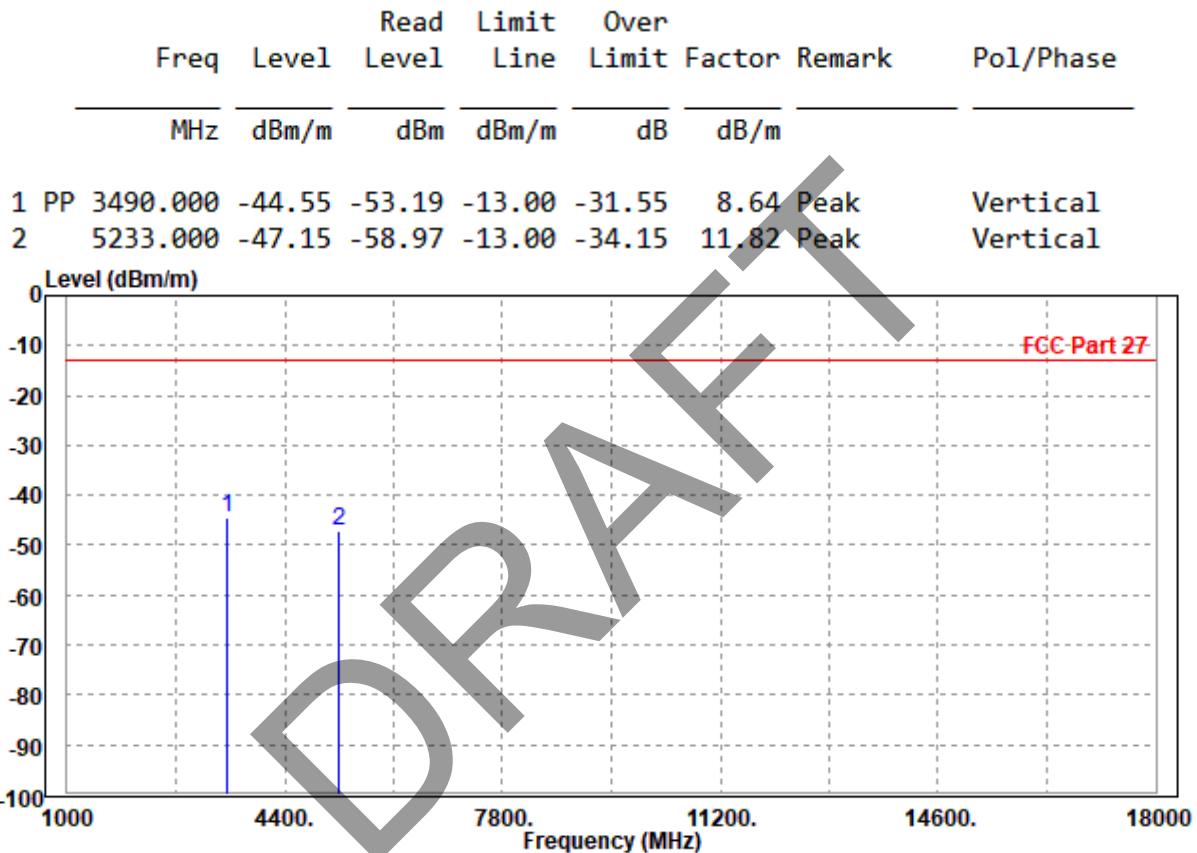
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			





Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



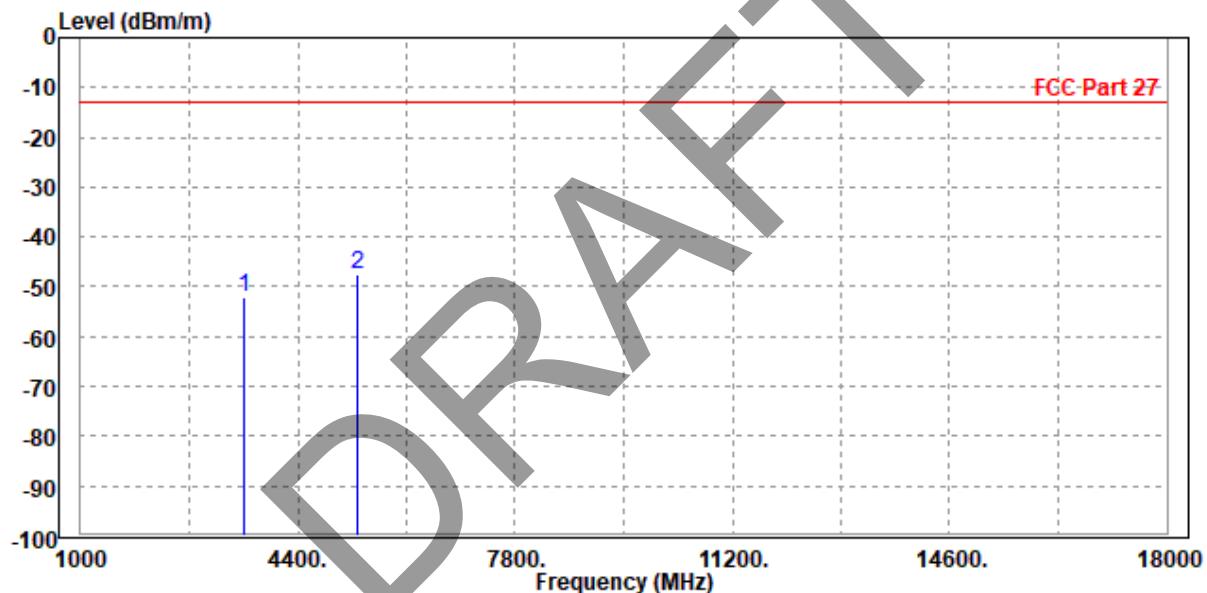


Test Report No.: W7L-P23120015RI04

CH 132665

MODE	TX channel 132665	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

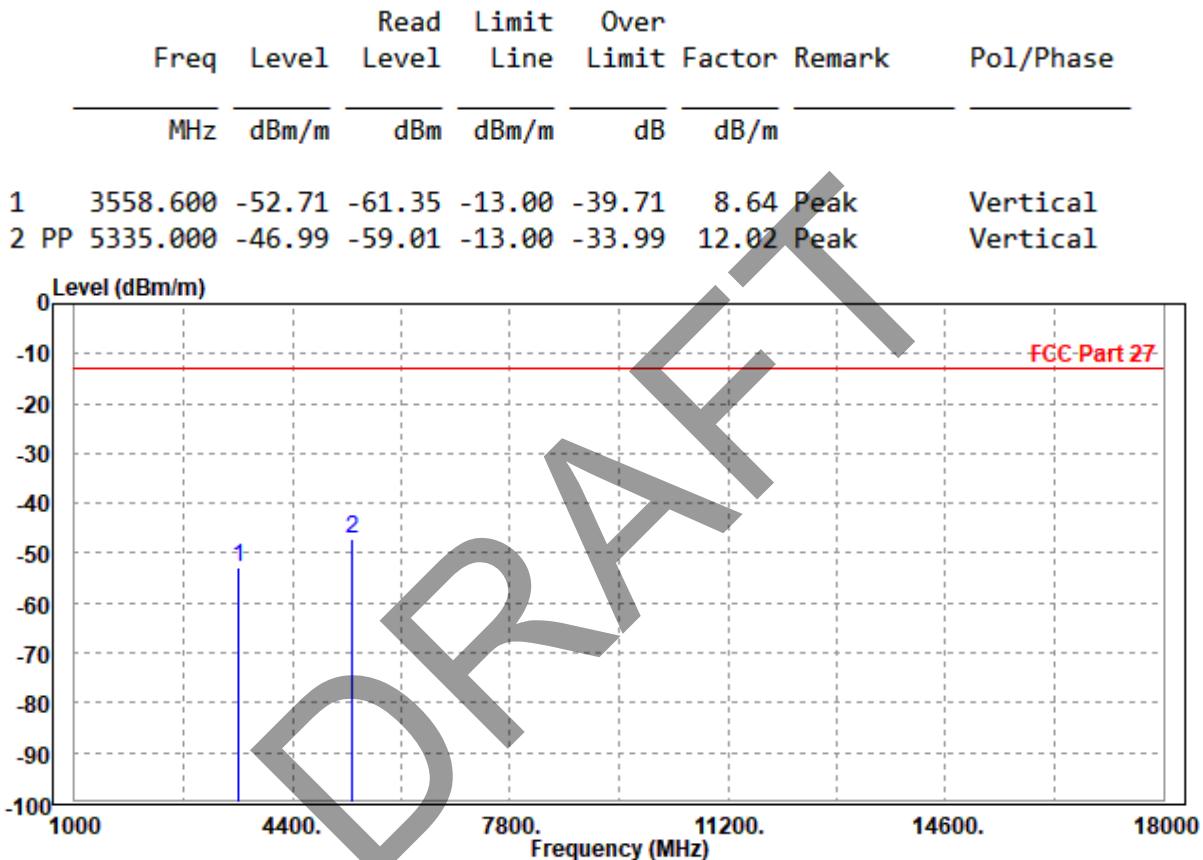
	Freq	Read Level	Limit Level	Over Line	Over Factor	Over Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3567.000	-52.20	-60.71	-13.00	-39.20	8.51 Peak	Horizontal
2	PP 5337.900	-47.48	-59.04	-13.00	-34.48	11.56 Peak	Horizontal





Test Report No.: W7L-P23120015RI04

MODE	TX channel 132665	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

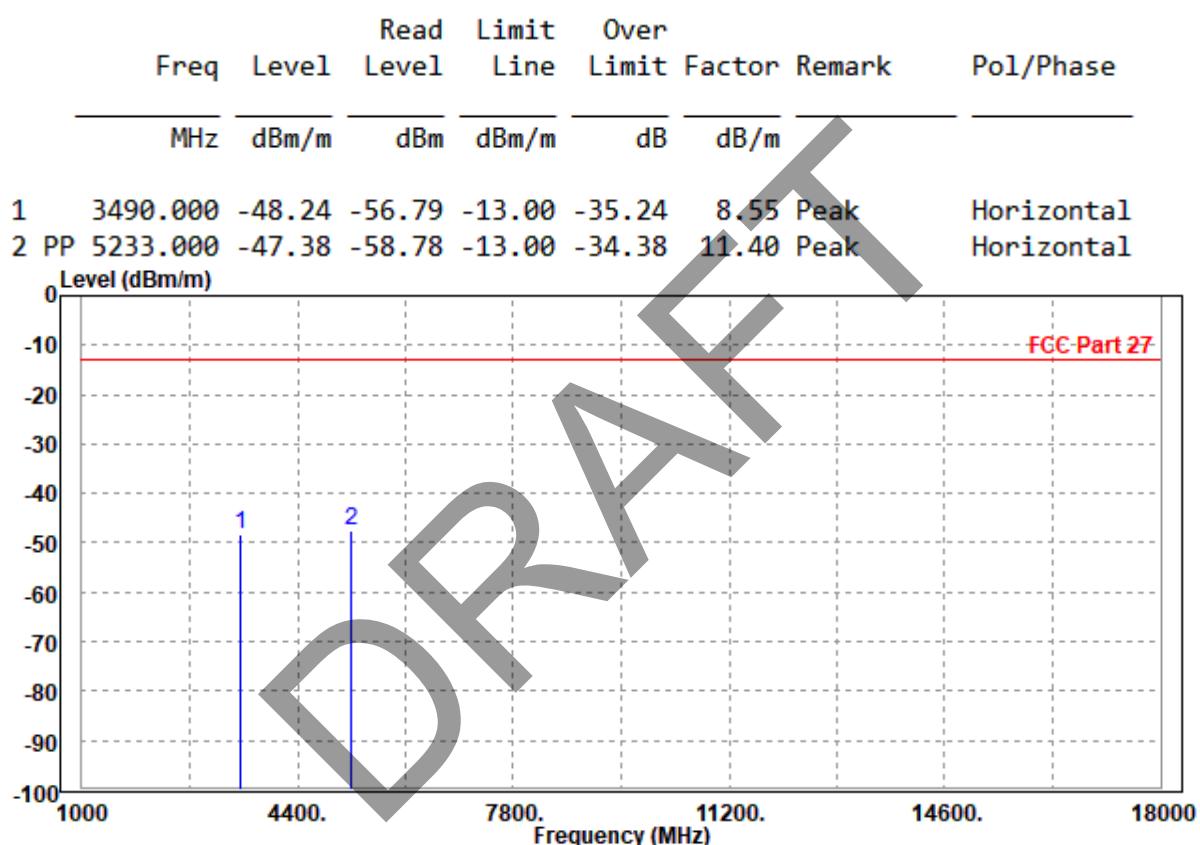




Test Report No.: W7L-P23120015RI04

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

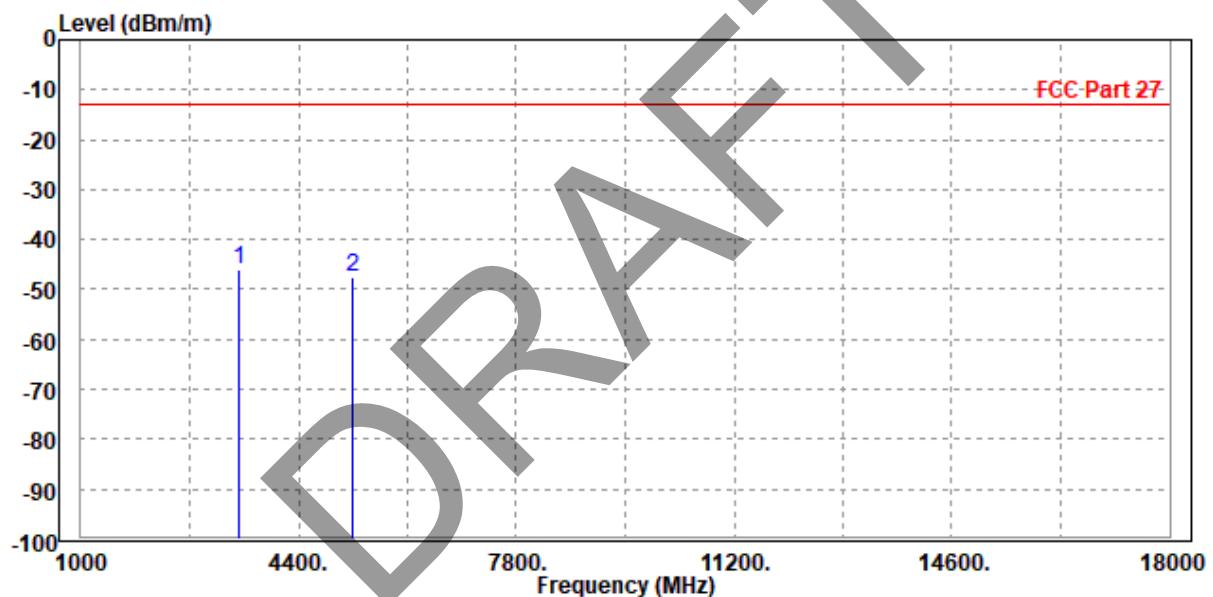




Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Read Level	Limit Level	Over Line	Over Factor	Over Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	PP 3482.000	-46.09	-54.74	-13.00	-33.09	8.65 Peak	Vertical
2	5235.000	-47.39	-59.22	-13.00	-34.39	11.83 Peak	Vertical

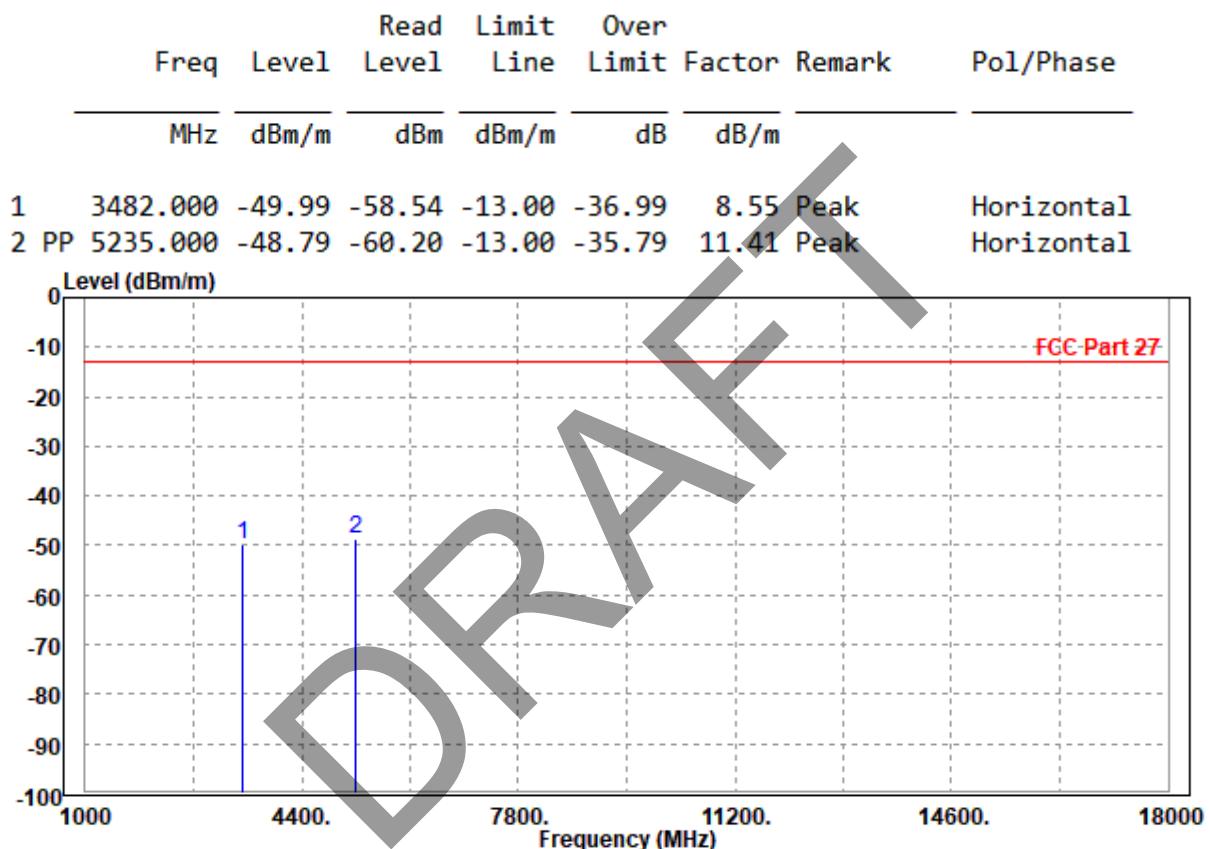




Test Report No.: W7L-P23120015RI04

CHANNEL BANDWIDTH: 5MHz / QPSK

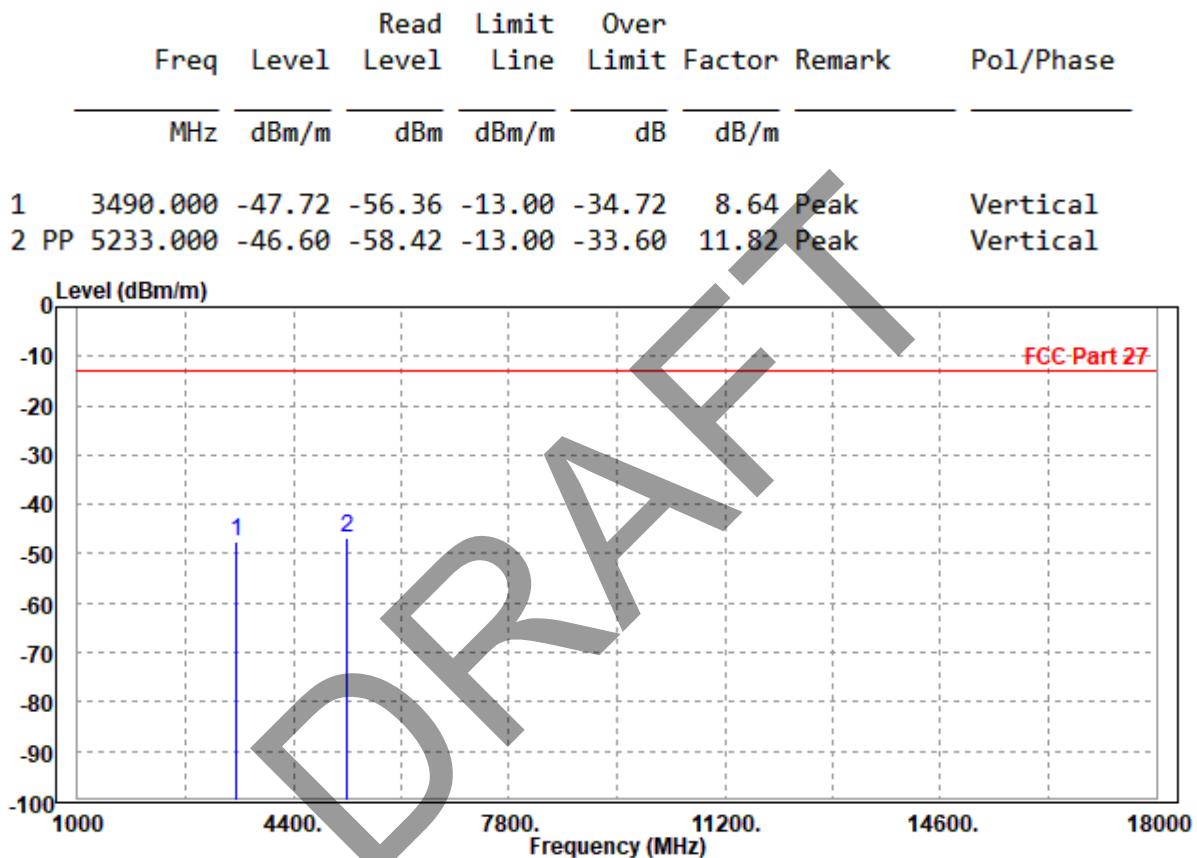
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			





Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



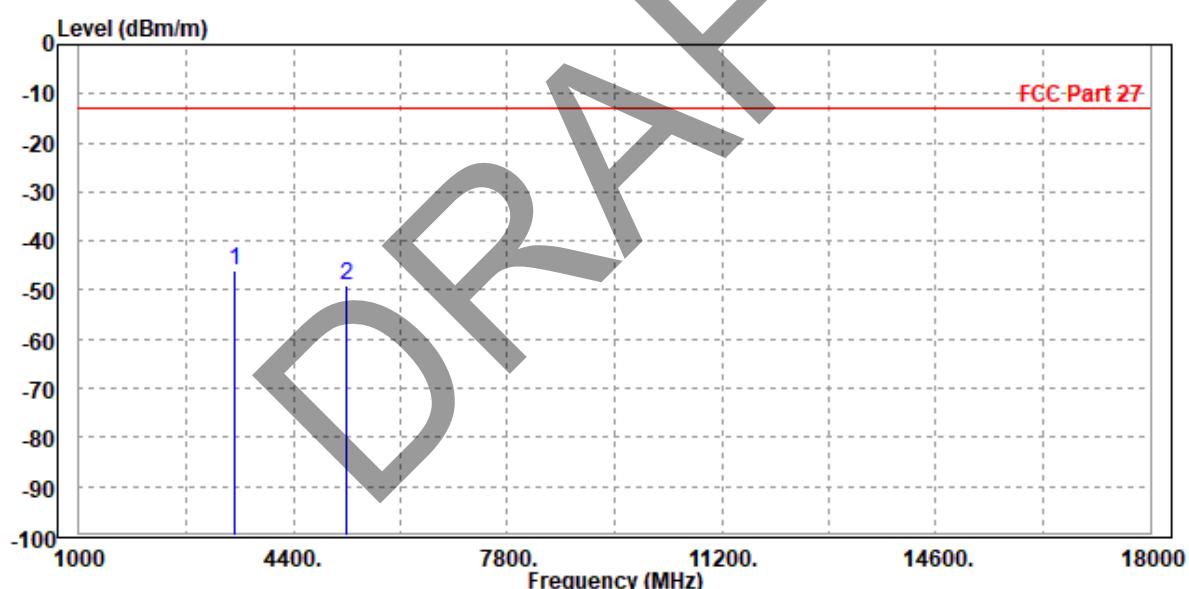


Test Report No.: W7L-P23120015RI04

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

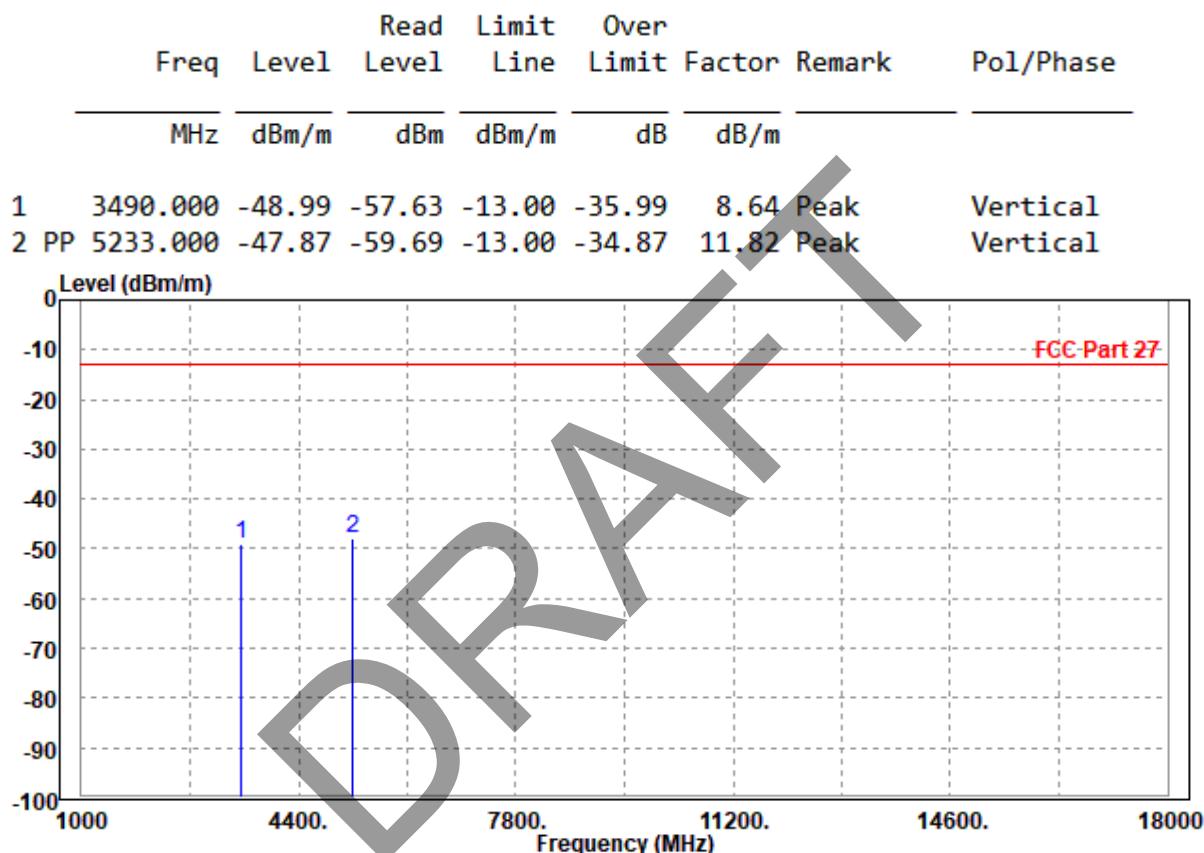
Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Freq	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	PP 3482.000	-45.96	-54.51	-13.00	-32.96	8.55 Peak
2	5235.000	-48.87	-60.28	-13.00	-35.87	11.41 Peak





Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



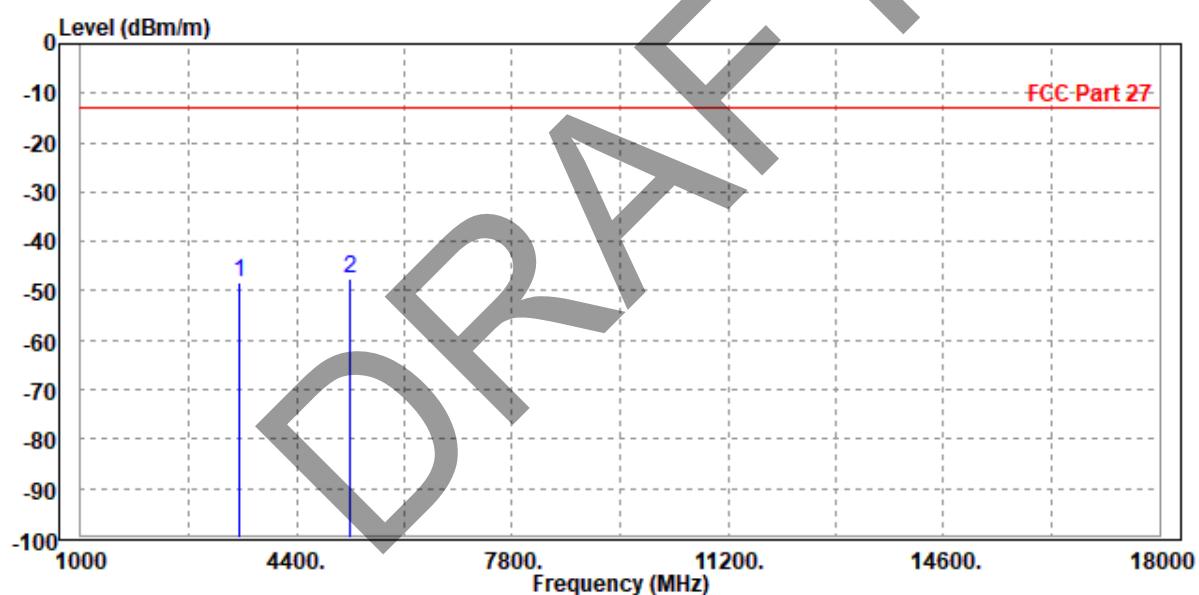


Test Report No.: W7L-P23120015RI04

**CHANNEL BANDWIDTH: 15MHz / QPSK**

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Read Level	Limit Level	Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3490.000	-48.19	-56.74	-13.00	-35.19	8.55	Peak	Horizontal
2 PP	5233.000	-47.68	-59.08	-13.00	-34.68	11.40	Peak	Horizontal

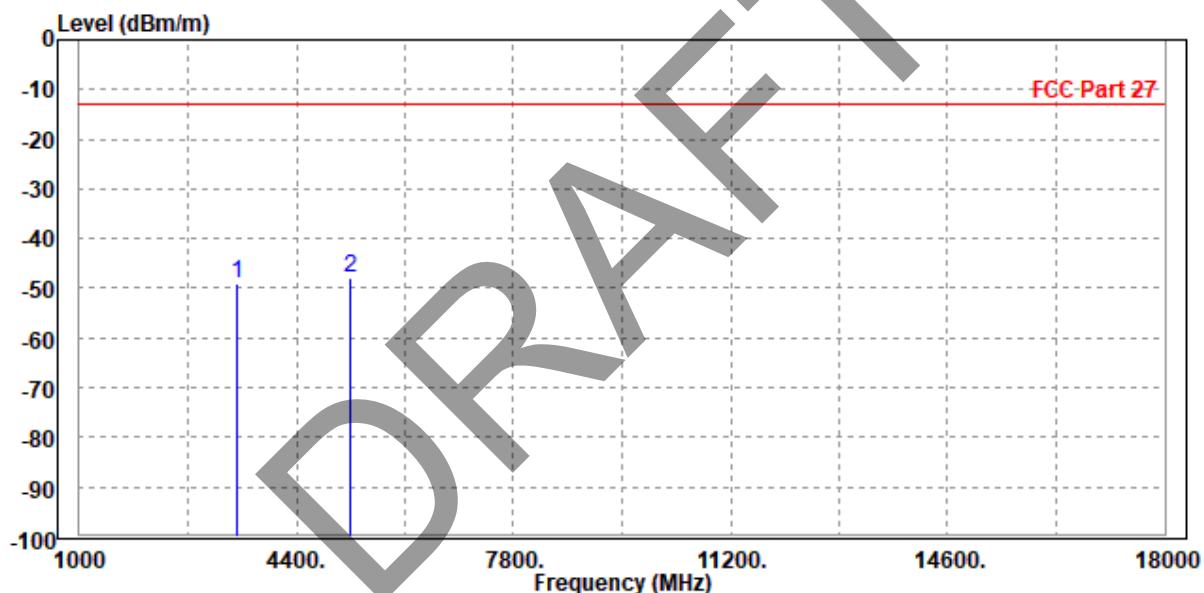




Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq MHz	Read Level dBm/m	Limit Line dBm	Over Line dBm/m	Limit Factor	Over Factor	Remark	Pol/Phase
							dB
1 3482.000	-48.90	-57.55	-13.00	-35.90	8.65	Peak	Vertical
2 PP 5235.000	-47.92	-59.75	-13.00	-34.92	11.83	Peak	Vertical



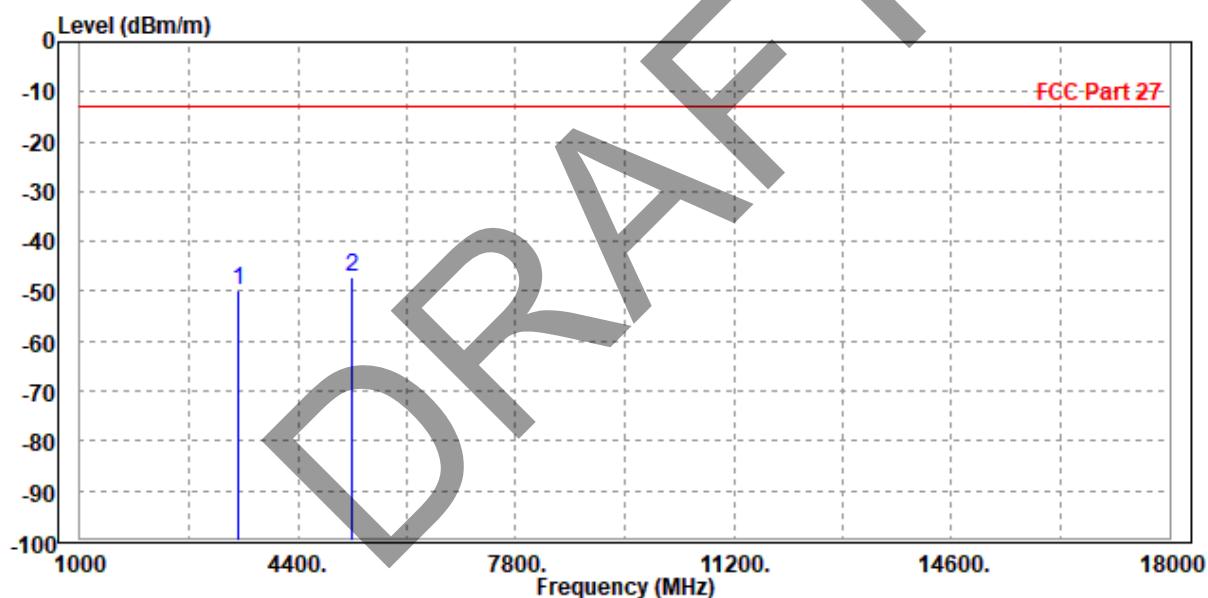


Test Report No.: W7L-P23120015RI04

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq MHz	Read Level dBm/m	Limit Level dBm	Over Line dBm/m	Over Limit dB	Over Factor	Remark	Pol/Phase
							Read Level dBm/m
1 3482.000	-49.85	-58.40	-13.00	-36.85	8.55	Peak	Horizontal
2 PP 5235.000	-47.20	-58.61	-13.00	-34.20	11.41	Peak	Horizontal

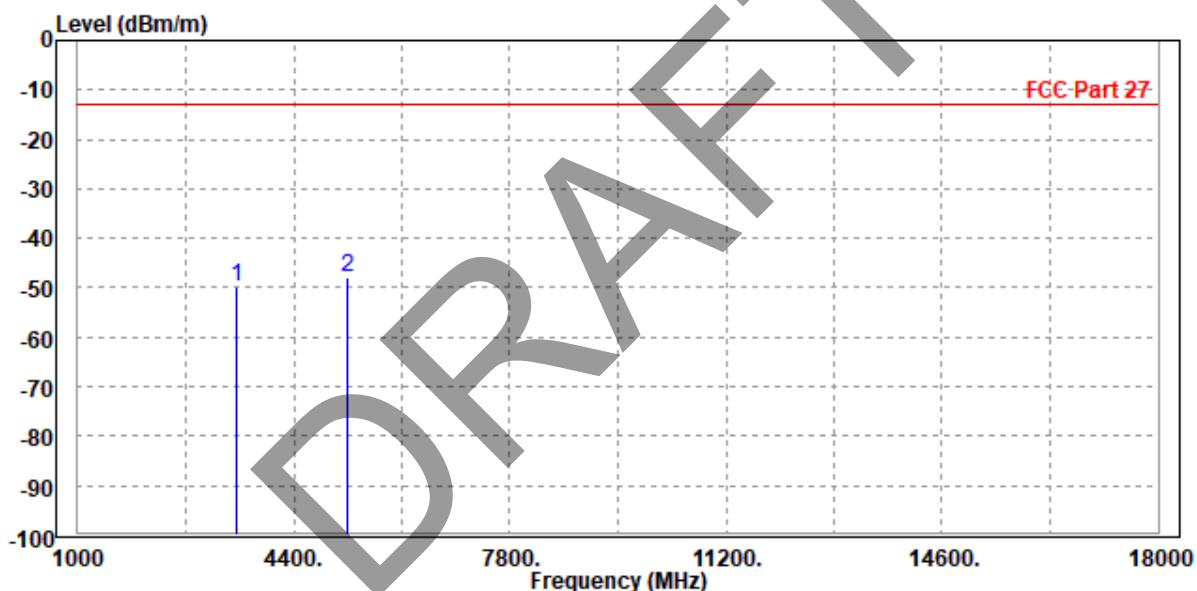




Test Report No.: W7L-P23120015RI04

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq MHz	Read Level dBm/m	Read Level dBm	Limit Line dBm/m	Over Line dB	Over Factor	Over Remark	Pol/Phase
		Level	Line	dB	dB/m		
1 3490.000	-49.69	-58.33	-13.00	-36.69	8.64	Peak	Vertical
2 PP 5233.000	-47.80	-59.62	-13.00	-34.80	11.82	Peak	Vertical





Test Report No.: W7L-P23120015RI04

## 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7Layers Communications Technology (Shenzhen) Co. Ltd, were founded in 2015 to provide our best service in EMC, Radio, and Telecom. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

**Shenzhen EMC/RF Lab:**

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

**Email:** [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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

DRAFT



Test Report No.: W7L-P23120015RI04

## 5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

DRAFT



Test Report No.: W7L-P23120015RI04

## 6 APPENDIX

### EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1

#### Band 4 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	EIRP(dBm)	EIRP Limit(dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	23.11	28.41	<30	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	21.04	26.34	<30	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	22.9	28.2	<30	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	20.83	26.13	<30	PASS
Band4	1.4MHz	20393	QPSK	1	5	High	23.03	28.33	<30	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	20.94	26.24	<30	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	22.19	27.49	<30	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	20.91	26.21	<30	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	22.02	27.32	<30	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	20.82	26.12	<30	PASS
Band4	1.4MHz	20393	16QAM	1	5	High	21.86	27.16	<30	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	20.93	26.23	<30	PASS
Band4	3MHz	19965	QPSK	1	0	Low	23.39	28.69	<30	PASS
Band4	3MHz	19965	QPSK	6	0	Low	21.23	26.53	<30	PASS
Band4	3MHz	20175	QPSK	1	0	Low	23.11	28.41	<30	PASS
Band4	3MHz	20175	QPSK	6	0	Low	20.99	26.29	<30	PASS
Band4	3MHz	20385	QPSK	1	5	High	23	28.3	<30	PASS
Band4	3MHz	20385	QPSK	6	0	High	21.05	26.35	<30	PASS
Band4	3MHz	19965	16QAM	1	0	Low	22.2	27.5	<30	PASS
Band4	3MHz	19965	16QAM	6	0	Low	21.21	26.51	<30	PASS
Band4	3MHz	20175	16QAM	1	0	Low	22.01	27.31	<30	PASS
Band4	3MHz	20175	16QAM	6	0	Low	20.86	26.16	<30	PASS
Band4	3MHz	20385	16QAM	1	5	High	22.25	27.55	<30	PASS
Band4	3MHz	20385	16QAM	6	0	High	21.04	26.34	<30	PASS
Band4	5MHz	19975	QPSK	1	0	Low	23.24	28.54	<30	PASS
Band4	5MHz	19975	QPSK	1	0	3	23.1	28.4	<30	PASS
Band4	5MHz	19975	QPSK	6	0	Low	21.93	27.23	<30	PASS
Band4	5MHz	20175	QPSK	1	0	Low	22.66	27.96	<30	PASS
Band4	5MHz	20175	QPSK	6	0	Low	21.7	27	<30	PASS
Band4	5MHz	20375	QPSK	1	5	High	22.91	28.21	<30	PASS
Band4	5MHz	20375	QPSK	6	0	High	21.8	27.1	<30	PASS
Band4	5MHz	20375	QPSK	6	0	3	21.77	27.07	<30	PASS
Band4	5MHz	19975	16QAM	1	0	Low	22.97	28.27	<30	PASS
Band4	5MHz	19975	16QAM	1	0	3	23.17	28.47	<30	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	5MHz	19975	16QAM	6	0	Low	21.86	27.16	<30	PASS
Band4	5MHz	20175	16QAM	1	0	Low	22.82	28.12	<30	PASS
Band4	5MHz	20175	16QAM	6	0	Low	21.8	27.1	<30	PASS
Band4	5MHz	20375	16QAM	1	5	High	22.83	28.13	<30	PASS
Band4	5MHz	20375	16QAM	6	0	High	21.87	27.17	<30	PASS
Band4	5MHz	20375	16QAM	6	0	3	21.86	27.16	<30	PASS
Band4	10MHz	20000	QPSK	1	0	Low	22.99	28.29	<30	PASS
Band4	10MHz	20000	QPSK	1	0	3	22.99	28.29	<30	PASS
Band4	10MHz	20000	QPSK	4	0	Low	22.81	28.11	<30	PASS
Band4	10MHz	20175	QPSK	1	0	Low	22.72	28.02	<30	PASS
Band4	10MHz	20175	QPSK	4	0	Low	22.49	27.79	<30	PASS
Band4	10MHz	20350	QPSK	1	5	High	22.64	27.94	<30	PASS
Band4	10MHz	20350	QPSK	1	5	4	22.84	28.14	<30	PASS
Band4	10MHz	20350	QPSK	4	2	High	22.78	28.08	<30	PASS
Band4	10MHz	20000	16QAM	1	0	Low	22.89	28.19	<30	PASS
Band4	10MHz	20000	16QAM	1	0	3	23.11	28.41	<30	PASS
Band4	10MHz	20000	16QAM	4	0	Low	22.11	27.41	<30	PASS
Band4	10MHz	20175	16QAM	1	0	Low	22.6	27.9	<30	PASS
Band4	10MHz	20175	16QAM	4	0	Low	21.53	26.83	<30	PASS
Band4	10MHz	20350	16QAM	1	5	High	22.78	28.08	<30	PASS
Band4	10MHz	20350	16QAM	1	5	4	22.57	27.87	<30	PASS
Band4	10MHz	20350	16QAM	4	2	High	21.99	27.29	<30	PASS
Band4	15MHz	20025	QPSK	1	0	Low	23.07	28.37	<30	PASS
Band4	15MHz	20025	QPSK	1	0	3	23.16	28.46	<30	PASS
Band4	15MHz	20025	QPSK	6	0	Low	22.78	28.08	<30	PASS
Band4	15MHz	20175	QPSK	1	0	Low	22.71	28.01	<30	PASS
Band4	15MHz	20175	QPSK	6	0	Low	22.6	27.9	<30	PASS
Band4	15MHz	20325	QPSK	1	5	High	22.73	28.03	<30	PASS
Band4	15MHz	20325	QPSK	1	5	8	22.8	28.1	<30	PASS
Band4	15MHz	20325	QPSK	6	0	High	22.78	28.08	<30	PASS
Band4	15MHz	20025	16QAM	1	0	Low	23.07	28.37	<30	PASS
Band4	15MHz	20025	16QAM	1	0	3	23.15	28.45	<30	PASS
Band4	15MHz	20025	16QAM	6	0	Low	22.77	28.07	<30	PASS
Band4	15MHz	20175	16QAM	1	0	Low	22.65	27.95	<30	PASS
Band4	15MHz	20175	16QAM	6	0	Low	22.67	27.97	<30	PASS
Band4	15MHz	20325	16QAM	1	5	High	22.79	28.09	<30	PASS
Band4	15MHz	20325	16QAM	1	5	8	22.61	27.91	<30	PASS
Band4	15MHz	20325	16QAM	6	0	High	22.77	28.07	<30	PASS
Band4	20MHz	20050	QPSK	1	0	Low	23.1	28.4	<30	PASS
Band4	20MHz	20050	QPSK	1	0	3	23.09	28.39	<30	PASS
Band4	20MHz	20050	QPSK	6	0	Low	22.8	28.1	<30	PASS
Band4	20MHz	20175	QPSK	1	0	Low	22.82	28.12	<30	PASS



**Test Report No.: W7L-P23120015RI04**

**BUREAU  
VERITAS**

Band4	20MHz	20175	QPSK	6	0	Low	22.64	27.94	<30	PASS
Band4	20MHz	20300	QPSK	1	5	High	22.8	28.1	<30	PASS
Band4	20MHz	20300	QPSK	1	5	12	22.76	28.06	<30	PASS
Band4	20MHz	20300	QPSK	6	0	High	22.88	28.18	<30	PASS
Band4	20MHz	20050	16QAM	1	0	Low	23.15	28.45	<30	PASS
Band4	20MHz	20050	16QAM	1	0	3	23	28.3	<30	PASS
Band4	20MHz	20050	16QAM	6	0	Low	22.72	28.02	<30	PASS
Band4	20MHz	20175	16QAM	1	0	Low	22.82	28.12	<30	PASS
Band4	20MHz	20175	16QAM	6	0	Low	22.69	27.99	<30	PASS
Band4	20MHz	20300	16QAM	1	5	High	22.82	28.12	<30	PASS
Band4	20MHz	20300	16QAM	1	5	12	22.66	27.96	<30	PASS
Band4	20MHz	20300	16QAM	6	0	High	22.87	28.17	<30	PASS

### Band 66 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	EIRP(dBm)	EIRP Limit(dBm)	Verdict
Band66	1.4MHz	131979	QPSK	1	0	Low	23.15	28.45	<30	PASS
Band66	1.4MHz	131979	QPSK	1	5	Low	22.97	28.27	<30	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	20.73	26.03	<30	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	23.19	28.49	<30	PASS
Band66	1.4MHz	132322	QPSK	1	5	Low	23.13	28.43	<30	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	20.84	26.14	<30	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	23.48	28.78	<30	PASS
Band66	1.4MHz	132665	QPSK	1	5	High	23.72	29.02	<30	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	21.4	26.7	<30	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	22	27.3	<30	PASS
Band66	1.4MHz	131979	16QAM	1	5	Low	21.82	27.12	<30	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	20.72	26.02	<30	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	22.04	27.34	<30	PASS
Band66	1.4MHz	132322	16QAM	1	5	Low	21.94	27.24	<30	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	20.84	26.14	<30	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	22.88	28.18	<30	PASS
Band66	1.4MHz	132665	16QAM	1	5	High	22.85	28.15	<30	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	21.4	26.7	<30	PASS
Band66	3MHz	131987	QPSK	1	0	Low	23.03	28.33	<30	PASS
Band66	3MHz	131987	QPSK	1	5	Low	22.96	28.26	<30	PASS
Band66	3MHz	131987	QPSK	6	0	Low	20.79	26.09	<30	PASS
Band66	3MHz	132322	QPSK	1	0	Low	23.12	28.42	<30	PASS
Band66	3MHz	132322	QPSK	1	5	Low	23.06	28.36	<30	PASS
Band66	3MHz	132322	QPSK	6	0	Low	20.81	26.11	<30	PASS
Band66	3MHz	132657	QPSK	1	0	High	23.73	29.03	<30	PASS
Band66	3MHz	132657	QPSK	1	5	High	23.77	29.07	<30	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	3MHz	132657	QPSK	6	0	High	21.49	26.79	<30	PASS
Band66	3MHz	131987	16QAM	1	0	Low	22.09	27.39	<30	PASS
Band66	3MHz	131987	16QAM	1	5	Low	21.98	27.28	<30	PASS
Band66	3MHz	131987	16QAM	6	0	Low	20.72	26.02	<30	PASS
Band66	3MHz	132322	16QAM	1	0	Low	22.09	27.39	<30	PASS
Band66	3MHz	132322	16QAM	1	5	Low	21.86	27.16	<30	PASS
Band66	3MHz	132322	16QAM	6	0	Low	20.81	26.11	<30	PASS
Band66	3MHz	132657	16QAM	1	0	High	22.93	28.23	<30	PASS
Band66	3MHz	132657	16QAM	1	5	High	22.91	28.21	<30	PASS
Band66	3MHz	132657	16QAM	6	0	High	21.49	26.79	<30	PASS
Band66	5MHz	131997	QPSK	1	0	Low	23.25	28.55	<30	PASS
Band66	5MHz	131997	QPSK	1	0	3	22.99	28.29	<30	PASS
Band66	5MHz	131997	QPSK	1	5	Low	23.01	28.31	<30	PASS
Band66	5MHz	131997	QPSK	6	0	Low	21.81	27.11	<30	PASS
Band66	5MHz	132322	QPSK	1	0	Low	23.1	28.4	<30	PASS
Band66	5MHz	132322	QPSK	1	5	Low	22.96	28.26	<30	PASS
Band66	5MHz	132322	QPSK	6	0	Low	21.83	27.13	<30	PASS
Band66	5MHz	132647	QPSK	1	0	High	23.76	29.06	<30	PASS
Band66	5MHz	132647	QPSK	1	5	High	23.77	29.07	<30	PASS
Band66	5MHz	132647	QPSK	6	0	High	22.67	27.97	<30	PASS
Band66	5MHz	132647	QPSK	6	0	3	22.7	28	<30	PASS
Band66	5MHz	131997	16QAM	1	0	Low	22.62	27.92	<30	PASS
Band66	5MHz	131997	16QAM	1	0	3	23.14	28.44	<30	PASS
Band66	5MHz	131997	16QAM	1	5	Low	22.4	27.7	<30	PASS
Band66	5MHz	131997	16QAM	6	0	Low	21.81	27.11	<30	PASS
Band66	5MHz	132322	16QAM	1	0	Low	23.1	28.4	<30	PASS
Band66	5MHz	132322	16QAM	1	5	Low	22.89	28.19	<30	PASS
Band66	5MHz	132322	16QAM	6	0	Low	21.92	27.22	<30	PASS
Band66	5MHz	132647	16QAM	1	0	High	24.24	29.54	<30	PASS
Band66	5MHz	132647	16QAM	1	5	High	24.26	29.56	<30	PASS
Band66	5MHz	132647	16QAM	6	0	High	22.68	27.98	<30	PASS
Band66	5MHz	132647	16QAM	6	0	3	22.69	27.99	<30	PASS
Band66	10MHz	132022	QPSK	1	0	Low	23.01	28.31	<30	PASS
Band66	10MHz	132022	QPSK	1	0	3	22.96	28.26	<30	PASS
Band66	10MHz	132022	QPSK	1	5	Low	22.87	28.17	<30	PASS
Band66	10MHz	132022	QPSK	4	0	Low	22.79	28.09	<30	PASS
Band66	10MHz	132022	QPSK	6	0	Low	21.77	27.07	<30	PASS
Band66	10MHz	132322	QPSK	1	0	Low	22.94	28.24	<30	PASS
Band66	10MHz	132322	QPSK	1	5	Low	22.81	28.11	<30	PASS
Band66	10MHz	132322	QPSK	4	0	Low	22.77	28.07	<30	PASS
Band66	10MHz	132322	QPSK	6	0	Low	21.63	26.93	<30	PASS
Band66	10MHz	132622	QPSK	1	0	High	23.77	29.07	<30	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	10MHz	132622	QPSK	1	5	High	23.8	29.1	<30	PASS
Band66	10MHz	132622	QPSK	1	5	4	23.91	29.21	<30	PASS
Band66	10MHz	132622	QPSK	4	2	High	23.73	29.03	<30	PASS
Band66	10MHz	132622	QPSK	6	0	High	22.71	28.01	<30	PASS
Band66	10MHz	132022	16QAM	1	0	Low	23.02	28.32	<30	PASS
Band66	10MHz	132022	16QAM	1	0	3	23.23	28.53	<30	PASS
Band66	10MHz	132022	16QAM	1	5	Low	22.9	28.2	<30	PASS
Band66	10MHz	132022	16QAM	4	0	Low	22.06	27.36	<30	PASS
Band66	10MHz	132022	16QAM	6	0	Low	21.77	27.07	<30	PASS
Band66	10MHz	132322	16QAM	1	0	Low	22.91	28.21	<30	PASS
Band66	10MHz	132322	16QAM	1	5	Low	22.77	28.07	<30	PASS
Band66	10MHz	132322	16QAM	4	0	Low	21.61	26.91	<30	PASS
Band66	10MHz	132322	16QAM	6	0	Low	21.68	26.98	<30	PASS
Band66	10MHz	132622	16QAM	1	0	High	24.31	29.61	<30	PASS
Band66	10MHz	132622	16QAM	1	5	High	24.27	29.57	<30	PASS
Band66	10MHz	132622	16QAM	1	5	4	24.03	29.33	<30	PASS
Band66	10MHz	132622	16QAM	4	2	High	22.97	28.27	<30	PASS
Band66	10MHz	132622	16QAM	6	0	High	22.71	28.01	<30	PASS
Band66	15MHz	132047	QPSK	1	0	Low	22.99	28.29	<30	PASS
Band66	15MHz	132047	QPSK	1	0	3	23.13	28.43	<30	PASS
Band66	15MHz	132047	QPSK	1	5	Low	22.94	28.24	<30	PASS
Band66	15MHz	132047	QPSK	6	0	Low	22.75	28.05	<30	PASS
Band66	15MHz	132322	QPSK	1	0	Low	22.93	28.23	<30	PASS
Band66	15MHz	132322	QPSK	1	5	Low	22.88	28.18	<30	PASS
Band66	15MHz	132322	QPSK	6	0	Low	22.81	28.11	<30	PASS
Band66	15MHz	132597	QPSK	1	0	High	23.9	29.2	<30	PASS
Band66	15MHz	132597	QPSK	1	5	High	23.89	29.19	<30	PASS
Band66	15MHz	132597	QPSK	1	5	8	23.67	28.97	<30	PASS
Band66	15MHz	132597	QPSK	6	0	High	23.83	29.13	<30	PASS
Band66	15MHz	132047	16QAM	1	0	Low	23.18	28.48	<30	PASS
Band66	15MHz	132047	16QAM	1	0	3	22.9	28.2	<30	PASS
Band66	15MHz	132047	16QAM	1	5	Low	22.95	28.25	<30	PASS
Band66	15MHz	132047	16QAM	6	0	Low	22.78	28.08	<30	PASS
Band66	15MHz	132322	16QAM	1	0	Low	22.98	28.28	<30	PASS
Band66	15MHz	132322	16QAM	1	5	Low	22.77	28.07	<30	PASS
Band66	15MHz	132322	16QAM	6	0	Low	22.88	28.18	<30	PASS
Band66	15MHz	132597	16QAM	1	0	High	24.32	29.62	<30	PASS
Band66	15MHz	132597	16QAM	1	5	High	24.34	29.64	<30	PASS
Band66	15MHz	132597	16QAM	1	5	8	24.04	29.34	<30	PASS
Band66	15MHz	132597	16QAM	6	0	High	23.83	29.13	<30	PASS
Band66	20MHz	132072	QPSK	1	0	Low	23.1	28.4	<30	PASS
Band66	20MHz	132072	QPSK	1	0	3	23.03	28.33	<30	PASS

**Test Report No.: W7L-P23120015RI04****BUREAU  
VERITAS**

Band66	20MHz	132072	QPSK	1	5	Low	22.86	28.16	<30	PASS
Band66	20MHz	132072	QPSK	6	0	Low	22.78	28.08	<30	PASS
Band66	20MHz	132322	QPSK	1	0	Low	22.78	28.08	<30	PASS
Band66	20MHz	132322	QPSK	1	5	Low	22.62	27.92	<30	PASS
Band66	20MHz	132322	QPSK	6	0	Low	22.79	28.09	<30	PASS
Band66	20MHz	132572	QPSK	1	0	High	23.89	29.19	<30	PASS
Band66	20MHz	132572	QPSK	1	5	High	23.89	29.19	<30	PASS
Band66	20MHz	132572	QPSK	1	5	12	23.89	29.19	<30	PASS
Band66	20MHz	132572	QPSK	6	0	High	23.84	29.14	<30	PASS
Band66	20MHz	132072	16QAM	1	0	Low	23.17	28.47	<30	PASS
Band66	20MHz	132072	16QAM	1	0	3	23.1	28.4	<30	PASS
Band66	20MHz	132072	16QAM	1	5	Low	22.93	28.23	<30	PASS
Band66	20MHz	132072	16QAM	6	0	Low	22.77	28.07	<30	PASS
Band66	20MHz	132322	16QAM	1	0	Low	22.97	28.27	<30	PASS
Band66	20MHz	132322	16QAM	1	5	Low	22.65	27.95	<30	PASS
Band66	20MHz	132322	16QAM	6	0	Low	22.88	28.18	<30	PASS
Band66	20MHz	132572	16QAM	1	0	High	24.34	29.64	<30	PASS
Band66	20MHz	132572	16QAM	1	5	High	24.37	29.67	<30	PASS
Band66	20MHz	132572	16QAM	1	5	12	24.04	29.34	<30	PASS
Band66	20MHz	132572	16QAM	6	0	High	23.84	29.14	<30	PASS

DRAFT



Test Report No.: W7L-P23120015RI04

## PEAK-TO-AVERAGE RATIO(CCDF) FOR M1

### Band 4 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	8.43	<=13	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	10.52	<=13	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	10.72	<=13	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	9.48	<=13	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	10.29	<=13	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	11.68	<=13	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	8.84	<=13	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	8.90	<=13	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	9.71	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	9.59	<=13	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	11.36	<=13	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	9.54	<=13	PASS
Band4	3MHz	19965	QPSK	1	0	Low	7.65	<=13	PASS
Band4	3MHz	19965	QPSK	6	0	Low	10.20	<=13	PASS
Band4	3MHz	20175	QPSK	1	0	Low	8.14	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	Low	8.93	<=13	PASS
Band4	3MHz	20385	QPSK	1	0	High	7.57	<=13	PASS
Band4	3MHz	20385	QPSK	6	0	High	11.71	<=13	PASS
Band4	3MHz	19965	16QAM	1	0	Low	10.52	<=13	PASS
Band4	3MHz	19965	16QAM	6	0	Low	8.93	<=13	PASS
Band4	3MHz	20175	16QAM	1	0	Low	9.13	<=13	PASS
Band4	3MHz	20175	16QAM	6	0	Low	10.09	<=13	PASS
Band4	3MHz	20385	16QAM	1	0	High	8.32	<=13	PASS
Band4	3MHz	20385	16QAM	6	0	High	8.84	<=13	PASS
Band4	5MHz	19975	QPSK	1	0	Low	8.52	<=13	PASS
Band4	5MHz	19975	QPSK	6	0	Low	10.96	<=13	PASS
Band4	5MHz	20175	QPSK	1	0	Low	8.43	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	Low	11.54	<=13	PASS
Band4	5MHz	20375	QPSK	1	0	High	8.81	<=13	PASS
Band4	5MHz	20375	QPSK	6	0	High	8.55	<=13	PASS
Band4	5MHz	19975	16QAM	1	0	Low	10.29	<=13	PASS
Band4	5MHz	19975	16QAM	6	0	Low	9.65	<=13	PASS
Band4	5MHz	20175	16QAM	1	0	Low	8.06	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	8.64	<=13	PASS
Band4	5MHz	20375	16QAM	1	0	High	8.06	<=13	PASS
Band4	5MHz	20375	16QAM	6	0	High	9.36	<=13	PASS
Band4	10MHz	20000	QPSK	1	0	Low	8.75	<=13	PASS
Band4	10MHz	20000	QPSK	6	0	Low	11.10	<=13	PASS
Band4	10MHz	20175	QPSK	1	0	Low	8.06	<=13	PASS
Band4	10MHz	20175	QPSK	6	0	Low	9.45	<=13	PASS
Band4	10MHz	20350	QPSK	1	0	High	7.77	<=13	PASS
Band4	10MHz	20350	QPSK	6	0	High	8.64	<=13	PASS

**Test Report No.: W7L-P23120015RI04**

Band4	10MHz	20000	16QAM	1	0	Low	9.28	<=13	PASS
Band4	10MHz	20000	16QAM	6	0	Low	9.45	<=13	PASS
Band4	10MHz	20175	16QAM	1	0	Low	8.35	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	Low	8.72	<=13	PASS
Band4	10MHz	20350	16QAM	1	0	High	10.84	<=13	PASS
Band4	10MHz	20350	16QAM	6	0	High	8.87	<=13	PASS
Band4	15MHz	20025	QPSK	1	0	Low	8.49	<=13	PASS
Band4	15MHz	20025	QPSK	6	0	Low	11.22	<=13	PASS
Band4	15MHz	20175	QPSK	1	0	Low	9.48	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	Low	10.06	<=13	PASS
Band4	15MHz	20325	QPSK	1	0	High	10.75	<=13	PASS
Band4	15MHz	20325	QPSK	6	0	High	8.09	<=13	PASS
Band4	15MHz	20025	16QAM	1	0	Low	11.07	<=13	PASS
Band4	15MHz	20025	16QAM	6	0	Low	10.70	<=13	PASS
Band4	15MHz	20175	16QAM	1	0	Low	9.83	<=13	PASS
Band4	15MHz	20175	16QAM	6	0	Low	8.58	<=13	PASS
Band4	15MHz	20325	16QAM	1	0	High	11.01	<=13	PASS
Band4	15MHz	20325	16QAM	6	0	High	8.67	<=13	PASS
Band4	20MHz	20050	QPSK	1	0	Low	8.41	<=13	PASS
Band4	20MHz	20050	QPSK	6	0	Low	8.61	<=13	PASS
Band4	20MHz	20175	QPSK	1	0	Low	9.97	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	Low	9.07	<=13	PASS
Band4	20MHz	20300	QPSK	1	0	High	8.55	<=13	PASS
Band4	20MHz	20300	QPSK	6	0	High	9.39	<=13	PASS
Band4	20MHz	20050	16QAM	1	0	Low	9.01	<=13	PASS
Band4	20MHz	20050	16QAM	6	0	Low	9.80	<=13	PASS
Band4	20MHz	20175	16QAM	1	0	Low	9.01	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	Low	9.01	<=13	PASS
Band4	20MHz	20300	16QAM	1	0	High	10.72	<=13	PASS
Band4	20MHz	20300	16QAM	6	0	High	9.80	<=13	PASS



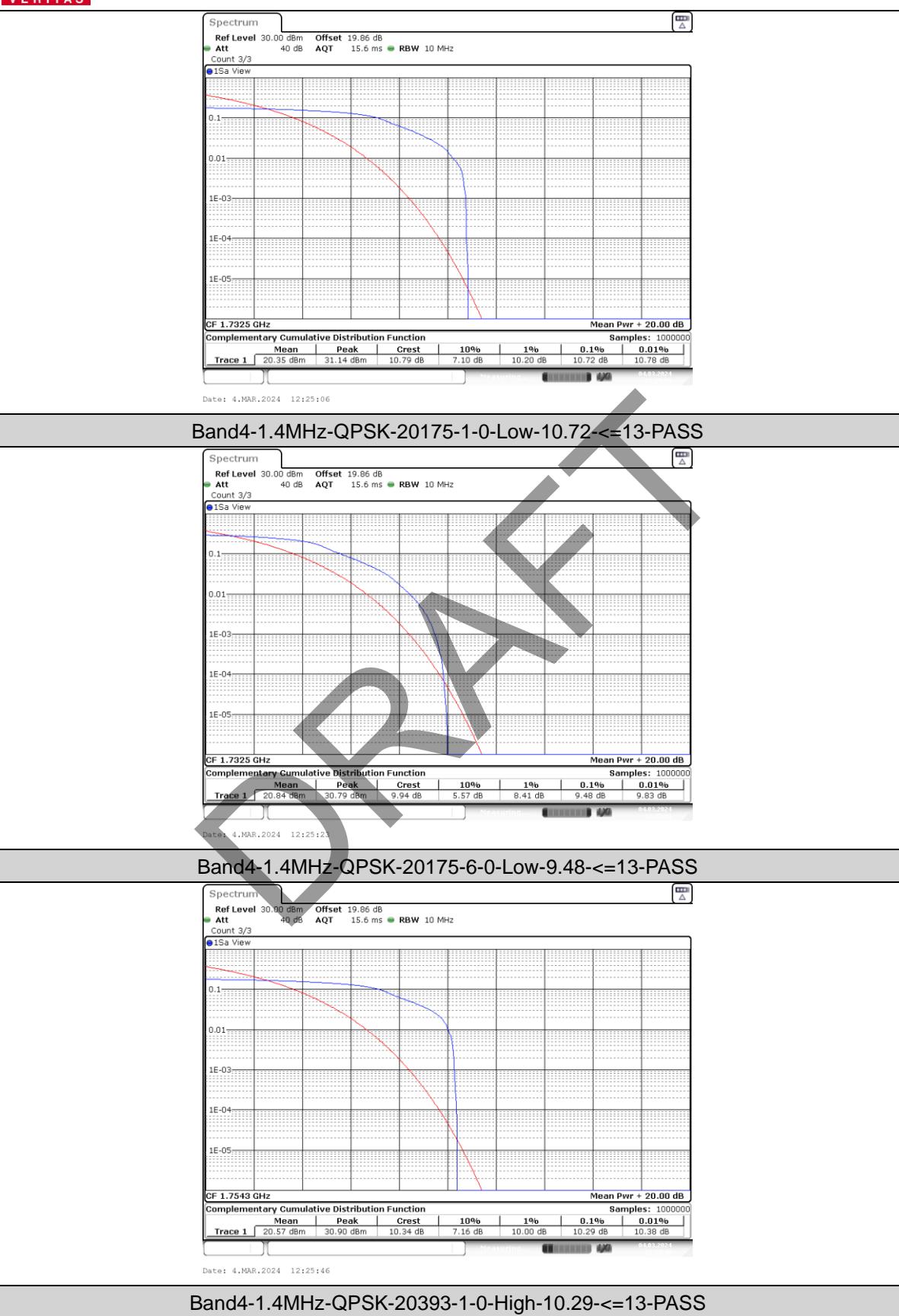
Test Report No.: W7L-P23120015RI04

## Band 4 Test Graphs





## Test Report No.: W7L-P23120015RI04



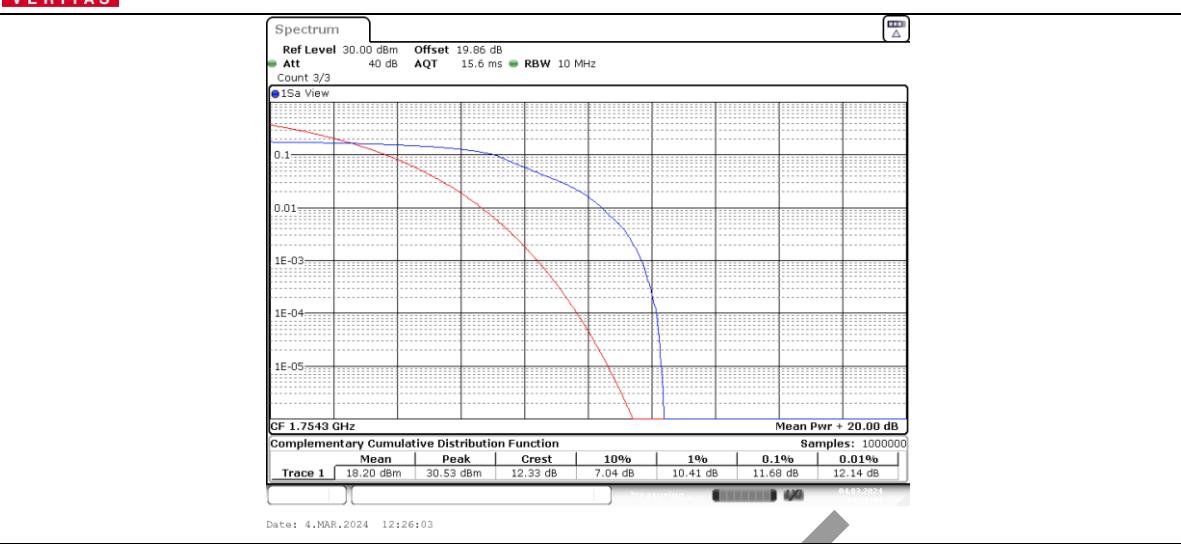
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

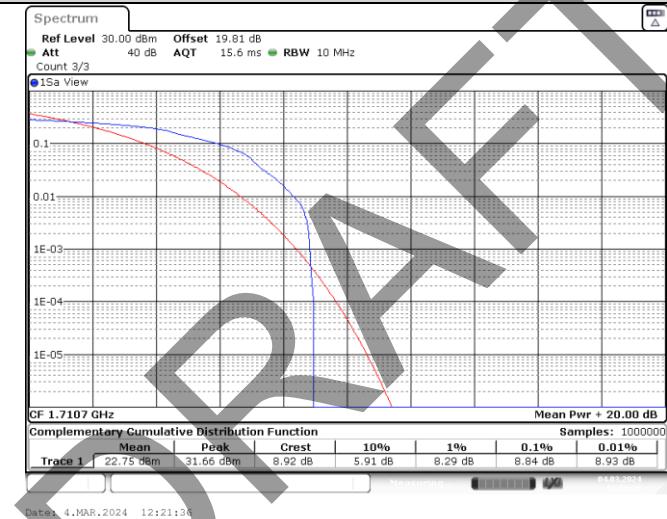
Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



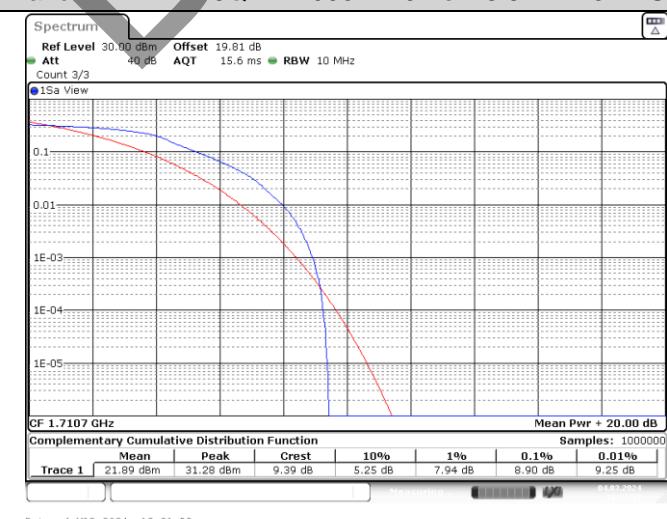
## Test Report No.: W7L-P23120015RI04



### Band4-1.4MHz-QPSK-20393-6-0-High-11.68-<=13-PASS



### Band4-1.4MHz-16QAM-19957-1-0-Low-8.84-<=13-PASS



### Band4-1.4MHz-16QAM-19957-6-0-Low-8.90-<=13-PASS

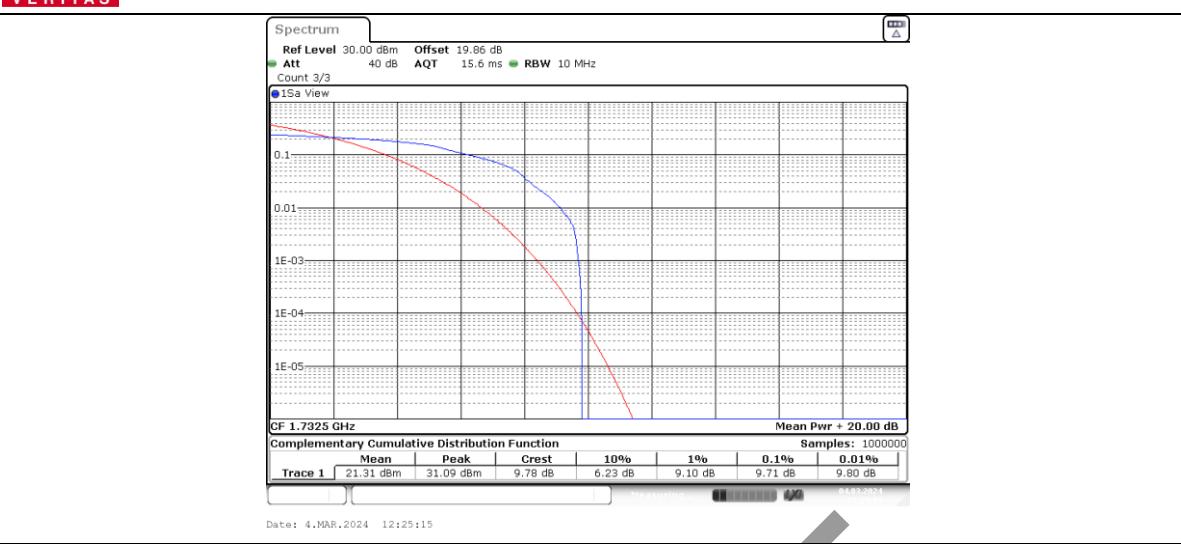
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

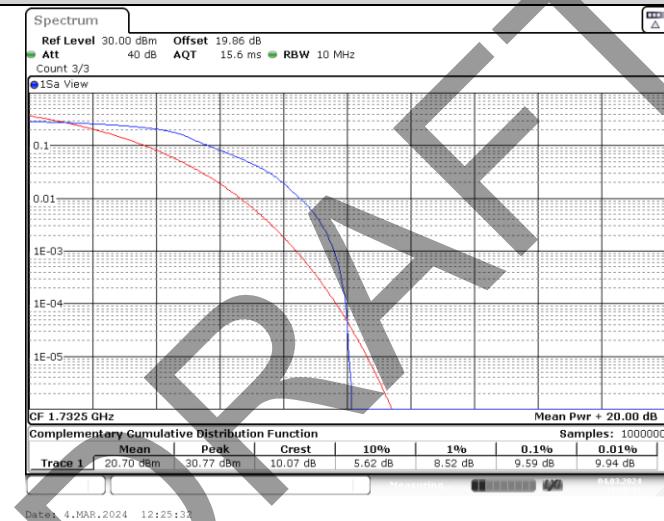
Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



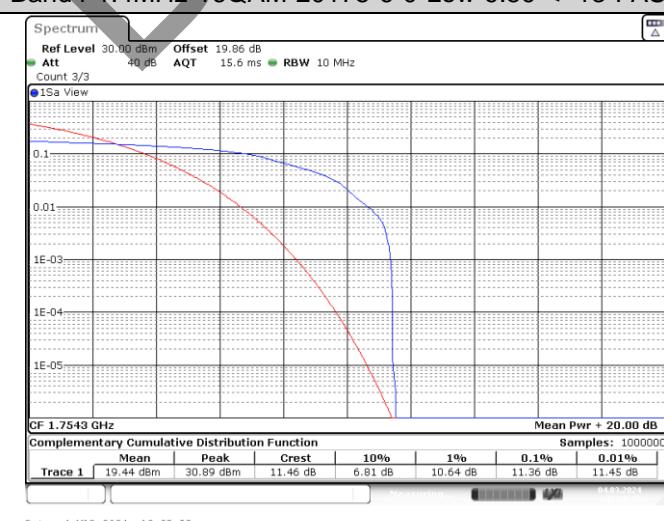
## Test Report No.: W7L-P23120015RI04



### Band4-1.4MHz-16QAM-20175-1-0-Low-9.71-<=13-PASS



### Band4-1.4MHz-16QAM-20175-6-0-Low-9.59-<=13-PASS



### Band4-1.4MHz-16QAM-20393-1-0-High-11.36-<=13-PASS

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

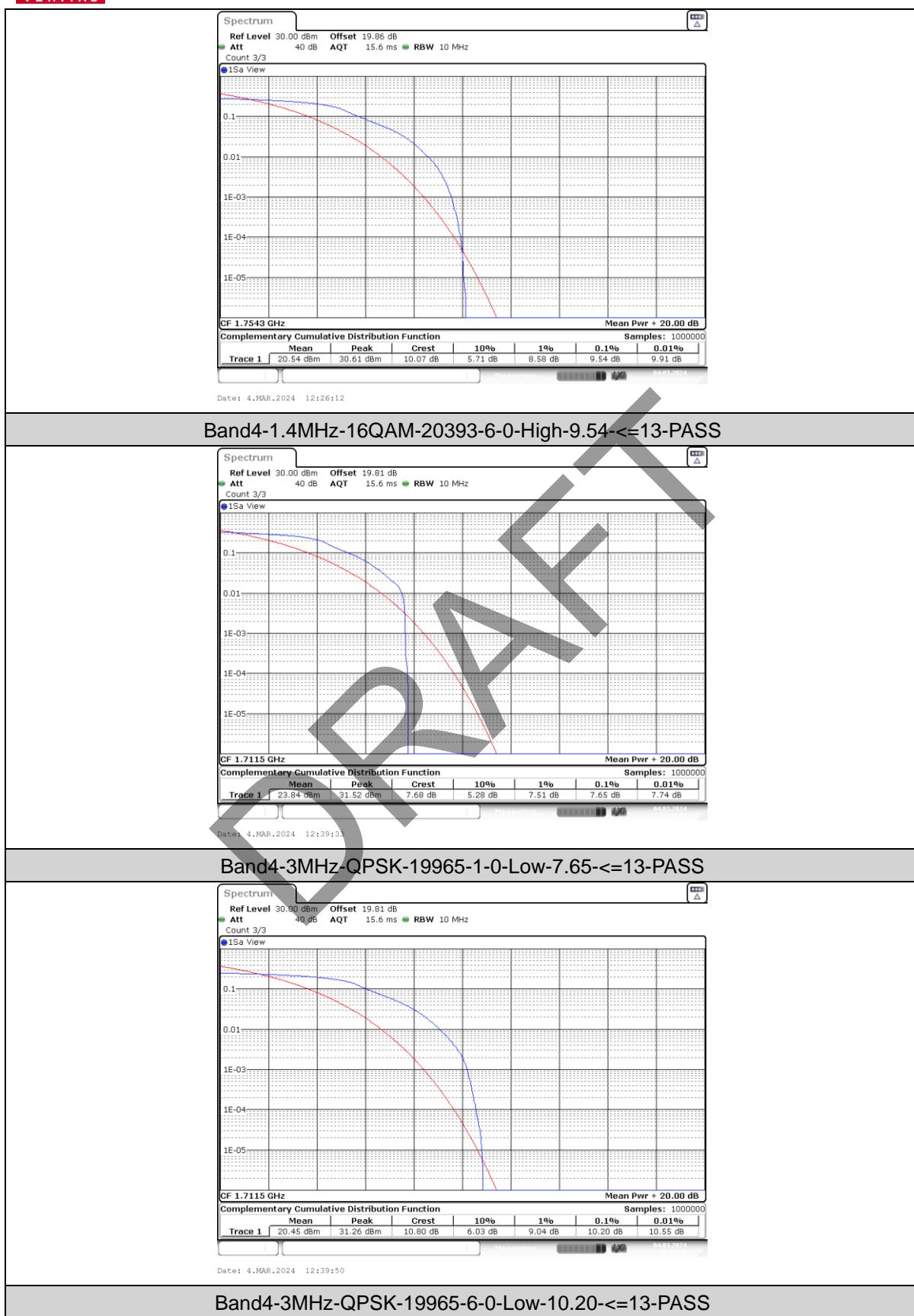
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04

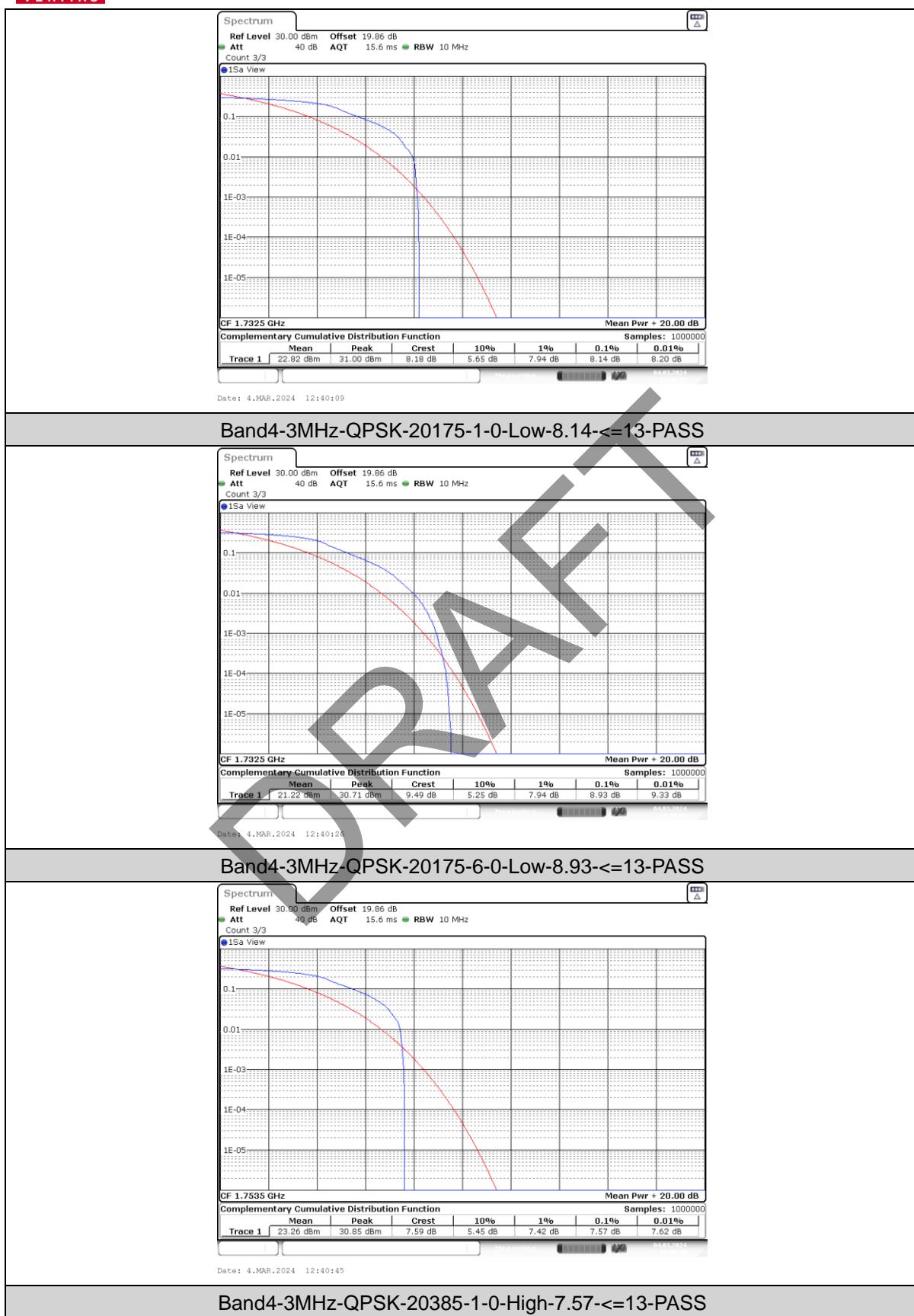
BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



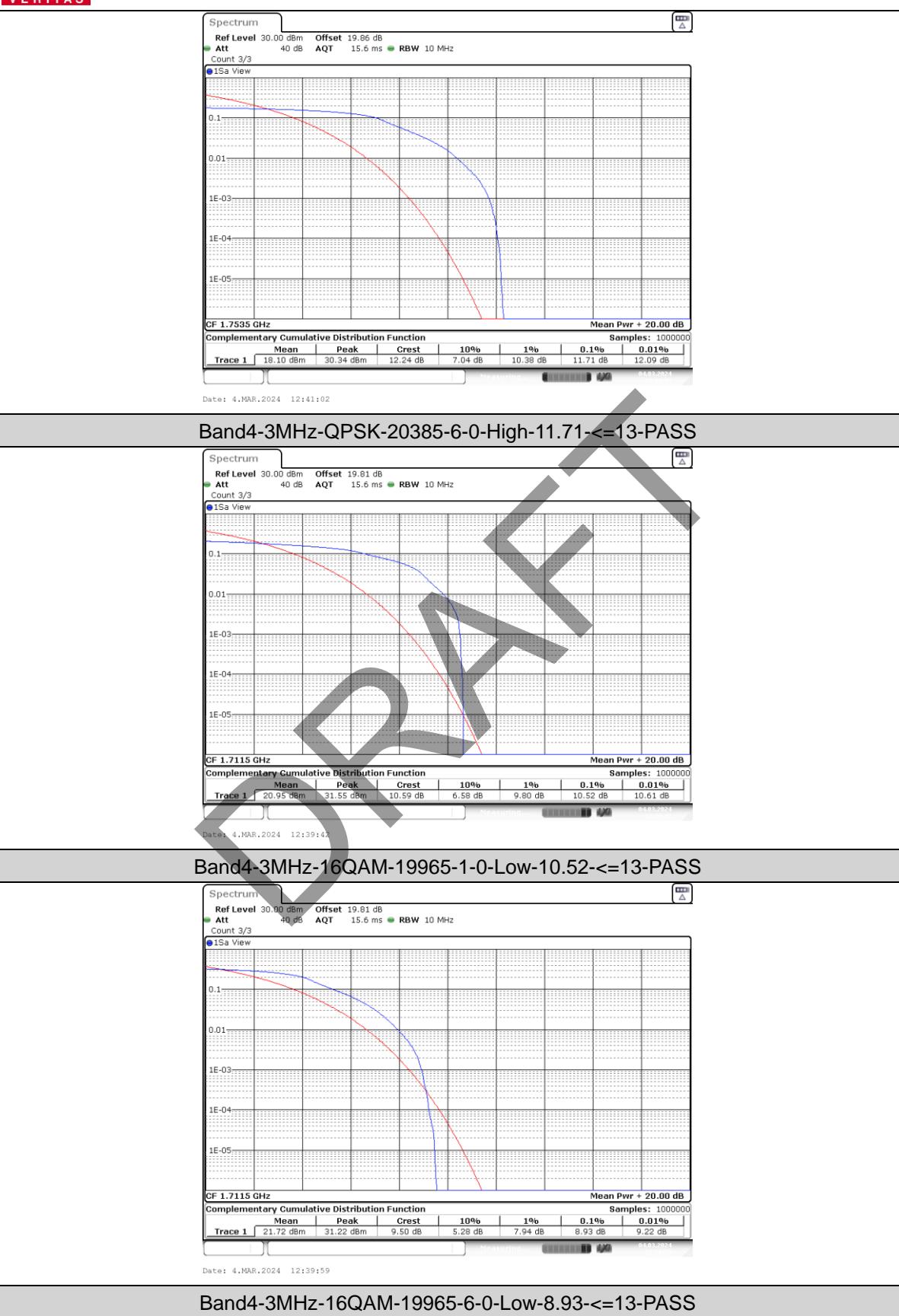
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



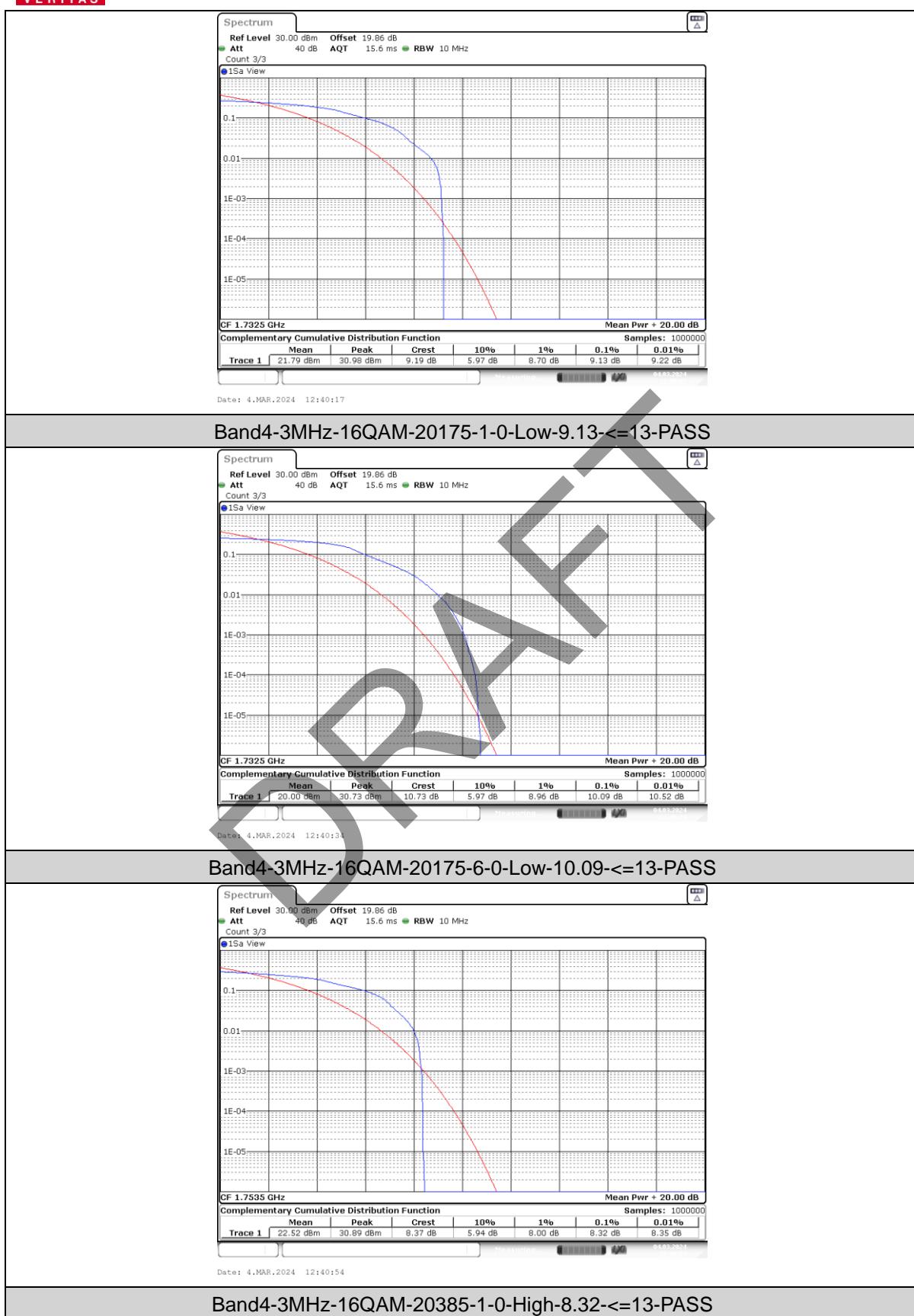
## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



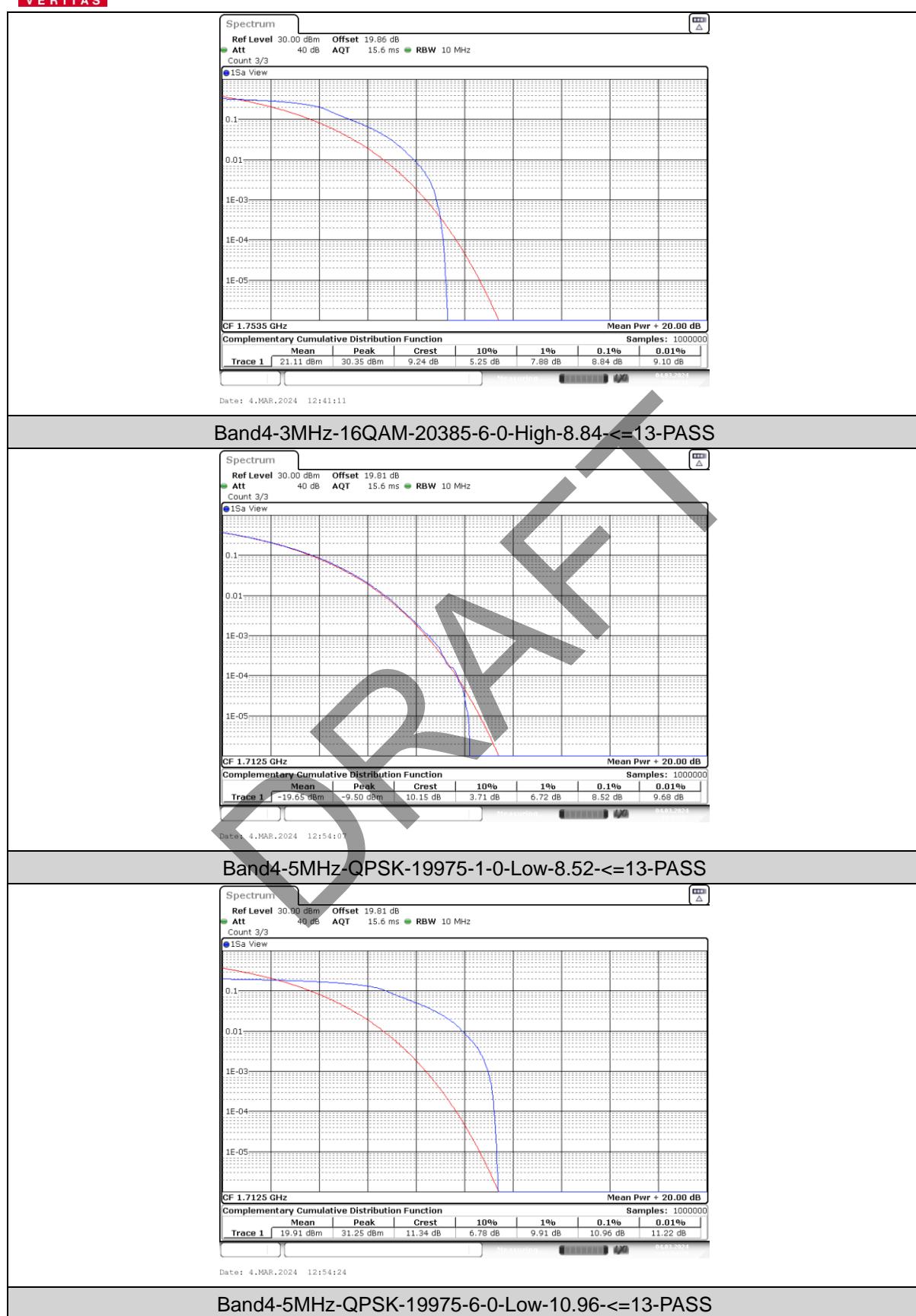
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



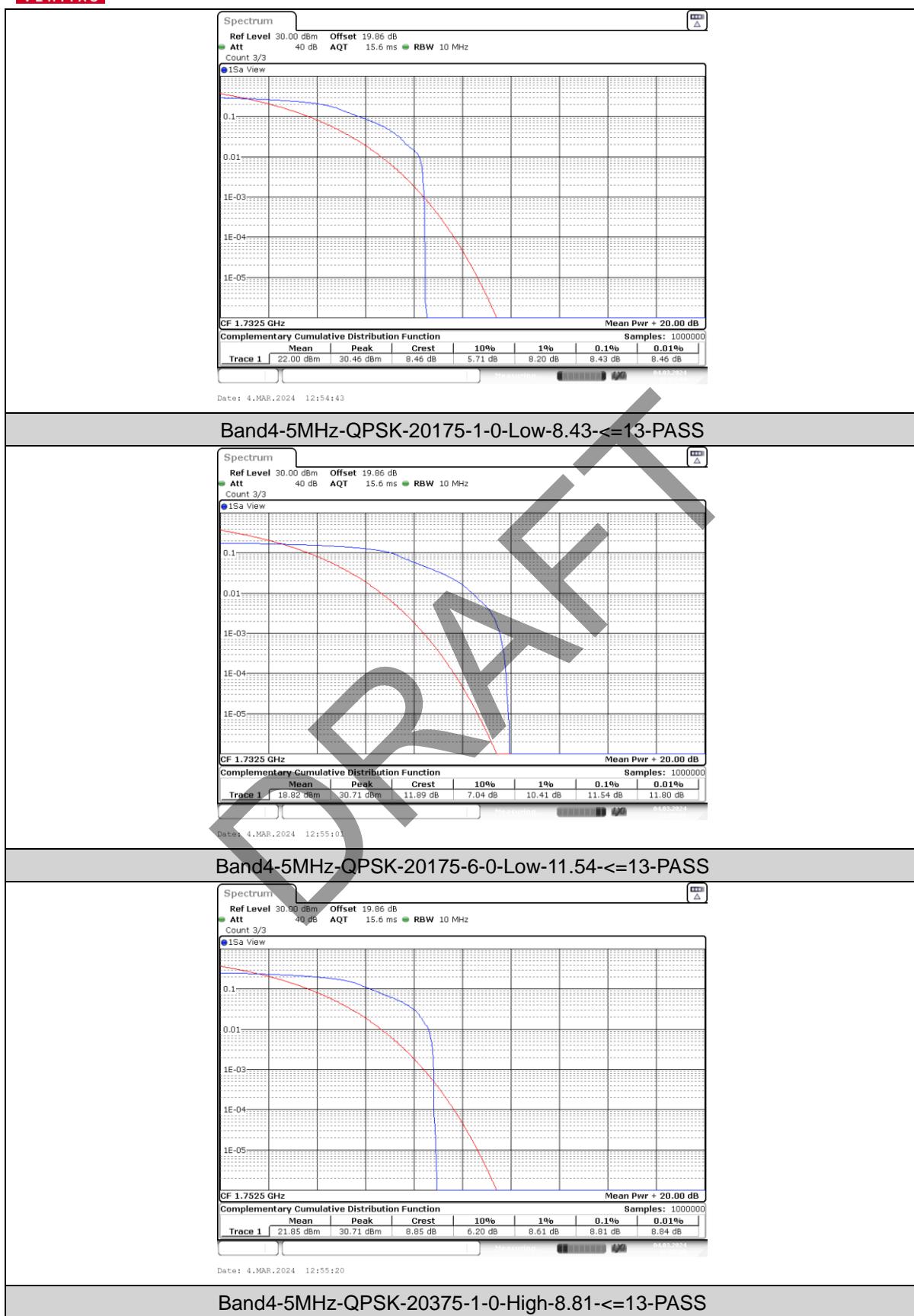
## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

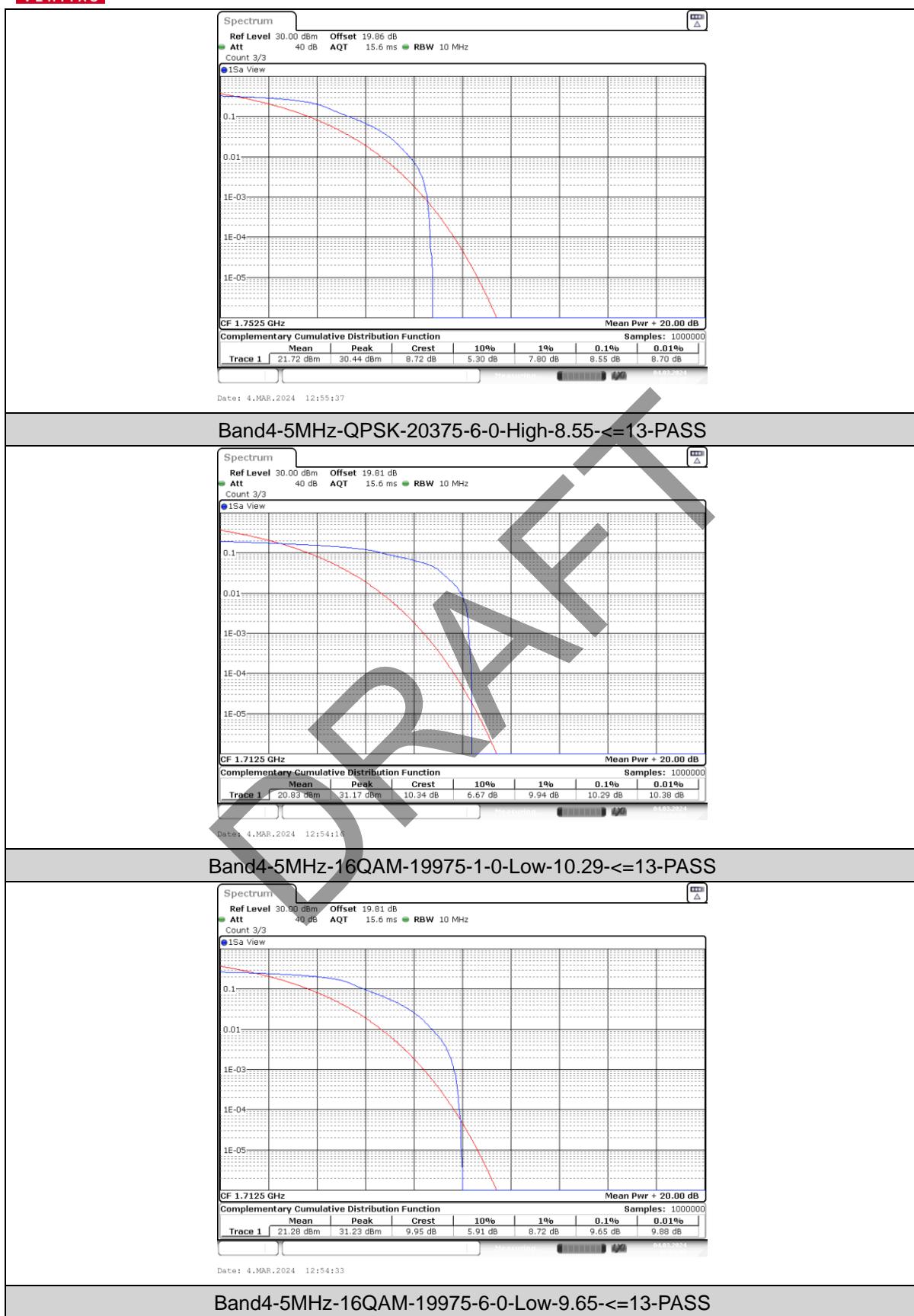
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

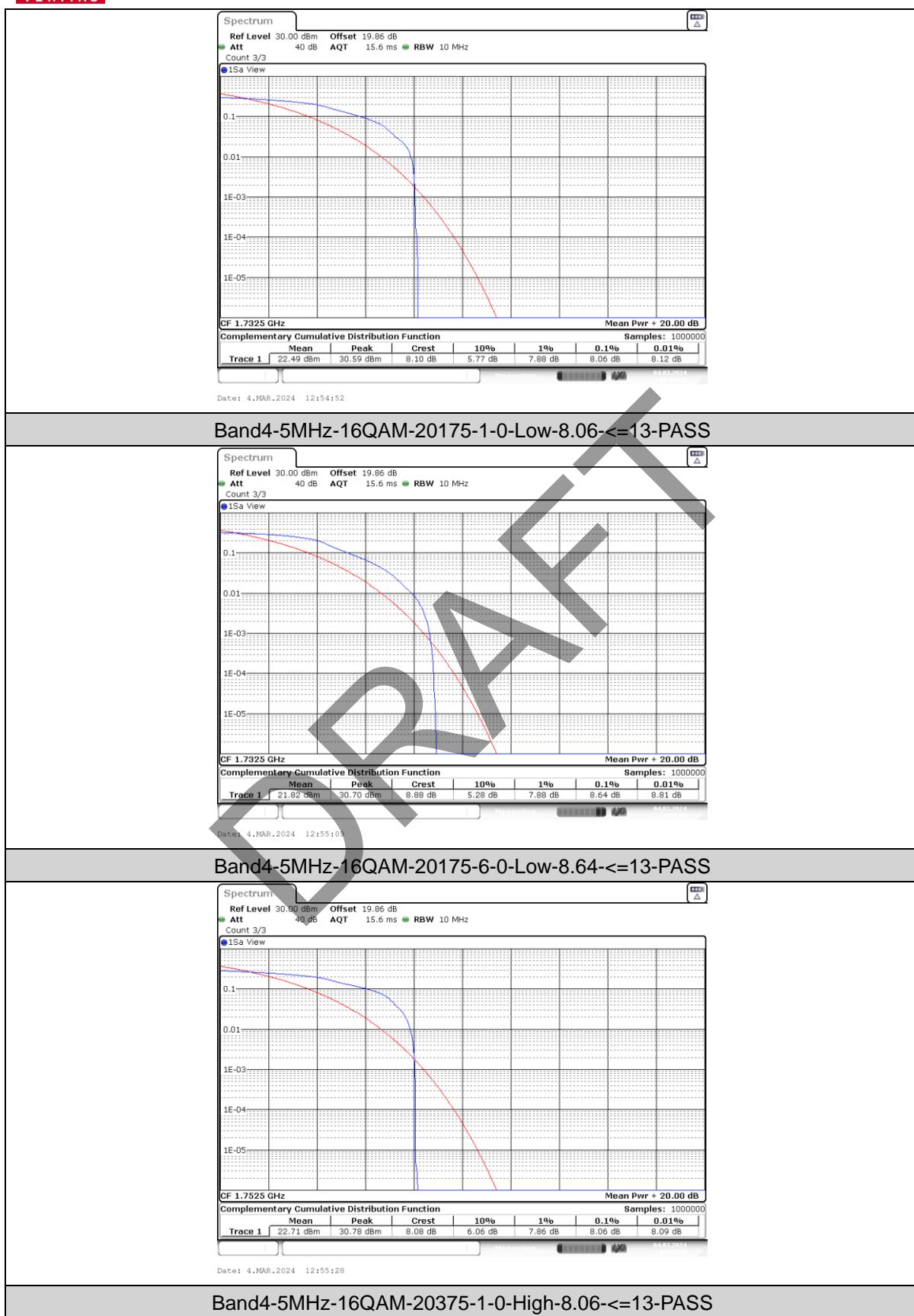
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



Test Report No.: W7L-P23120015RI04

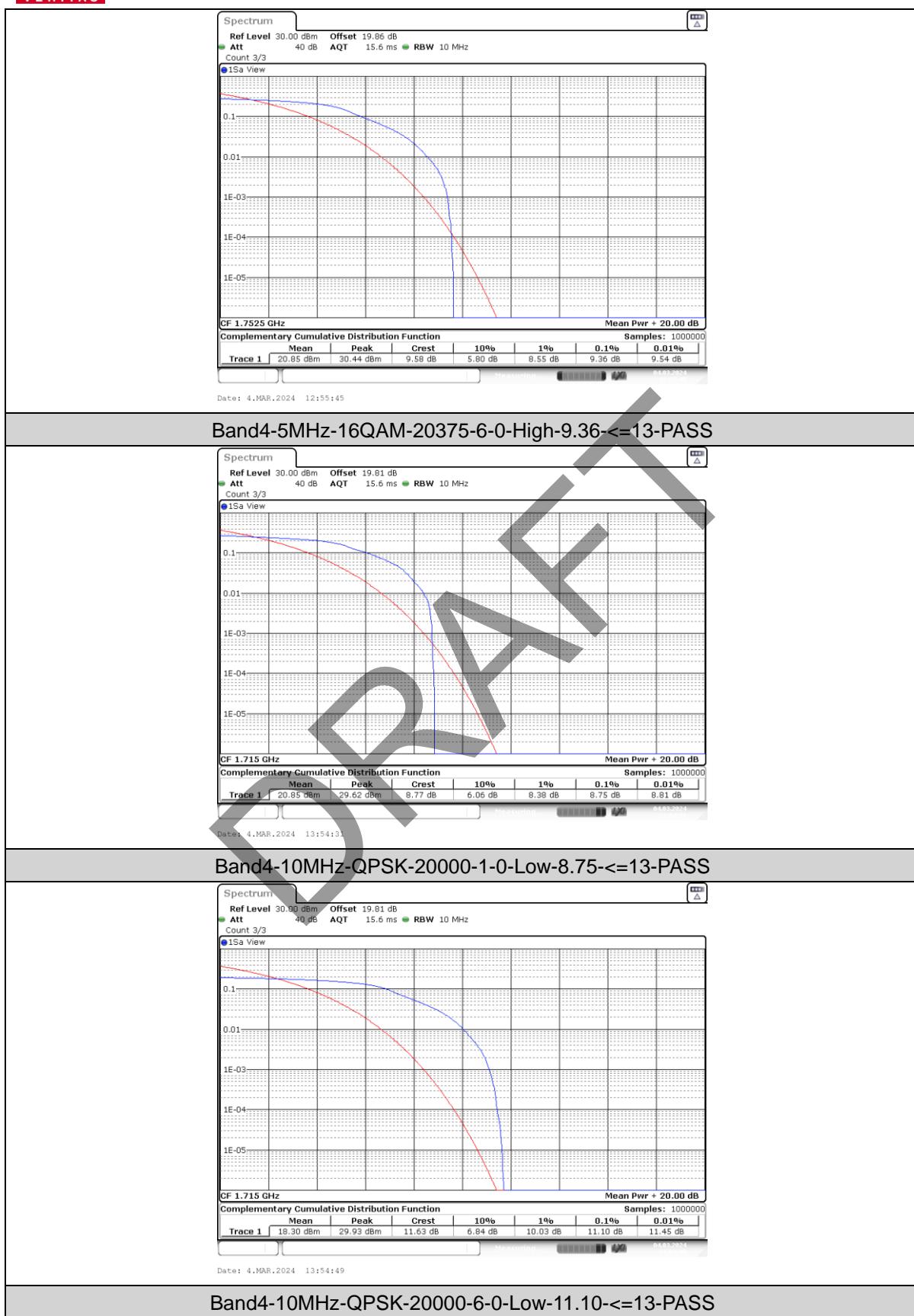
BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



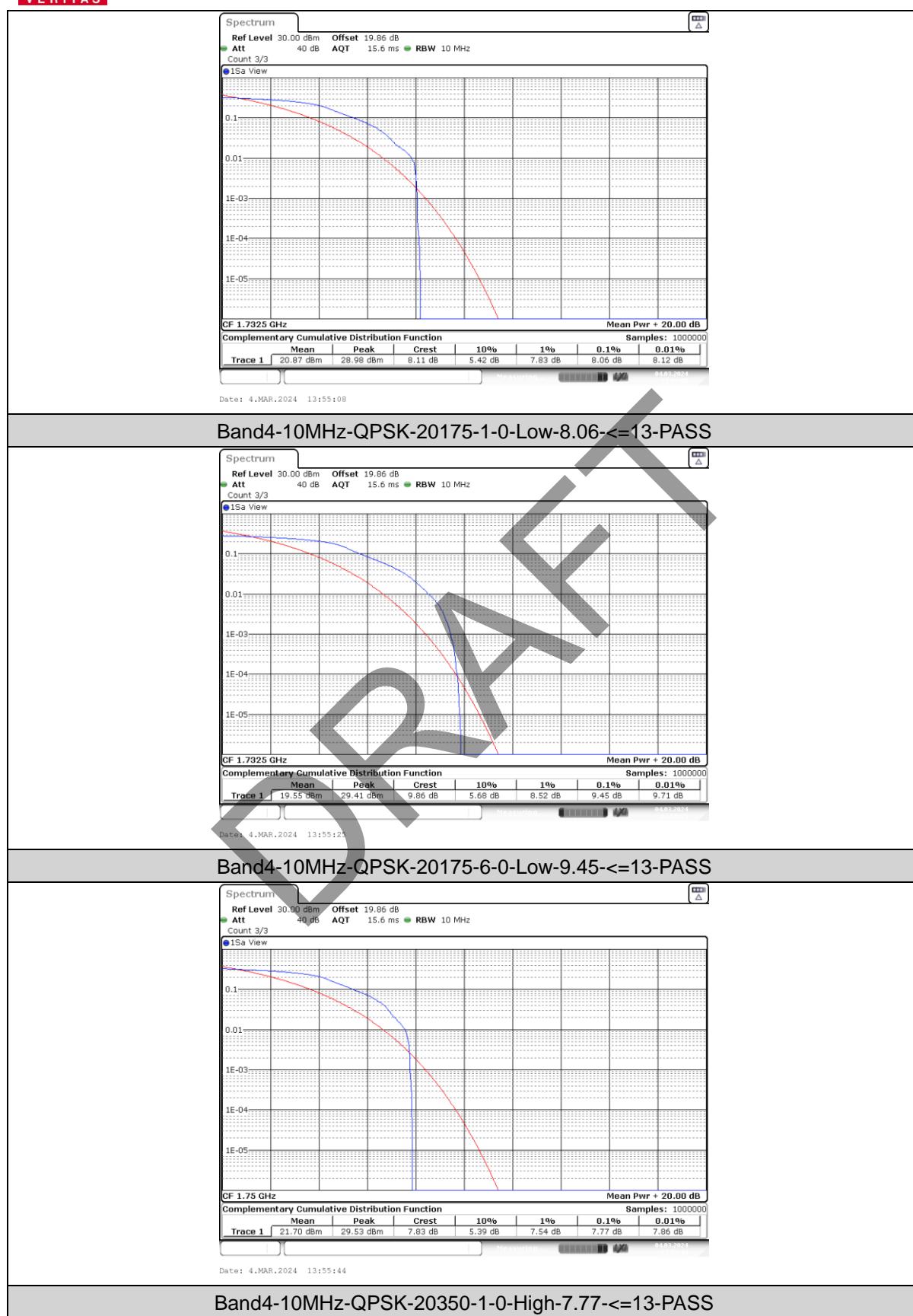
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



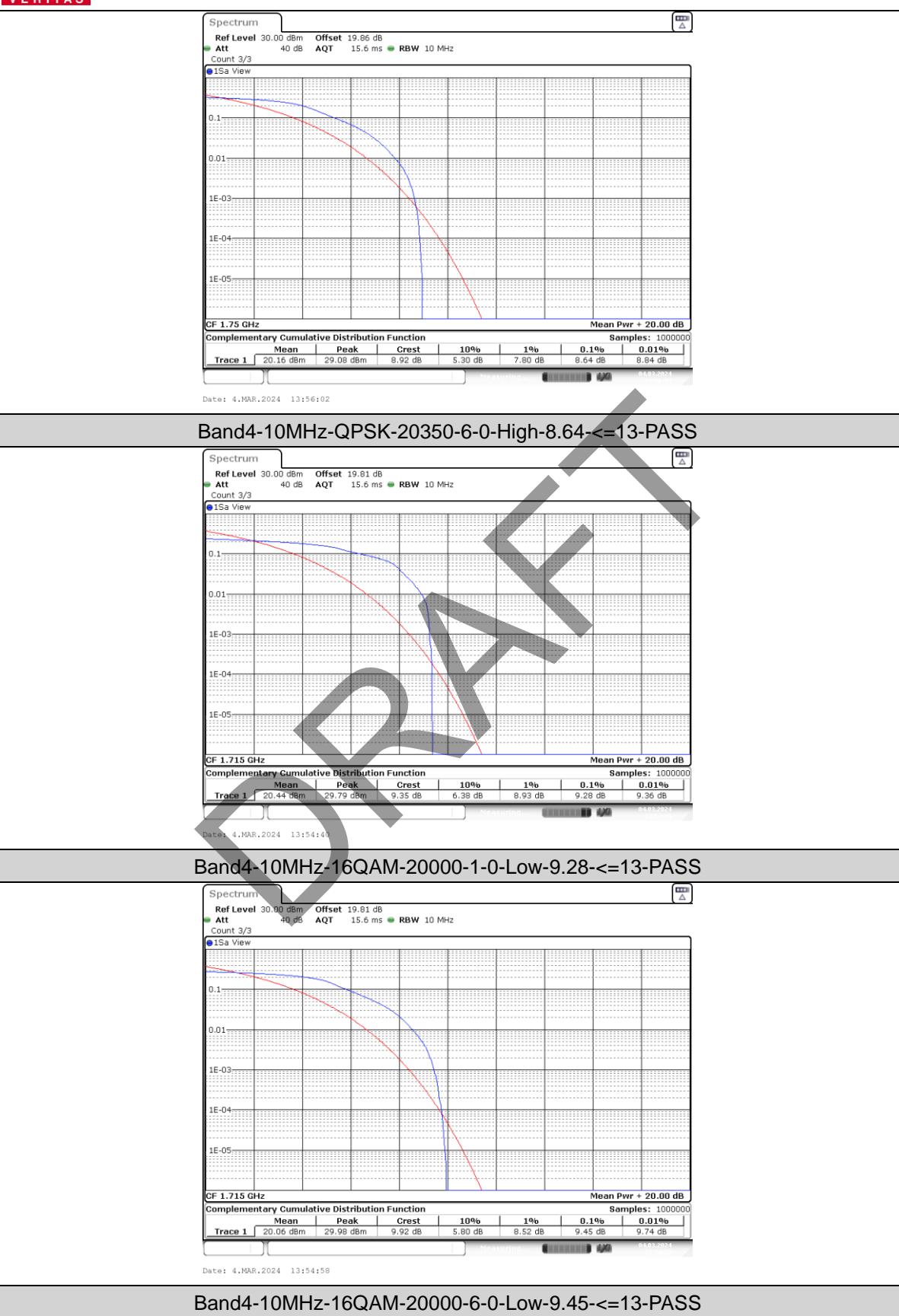
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

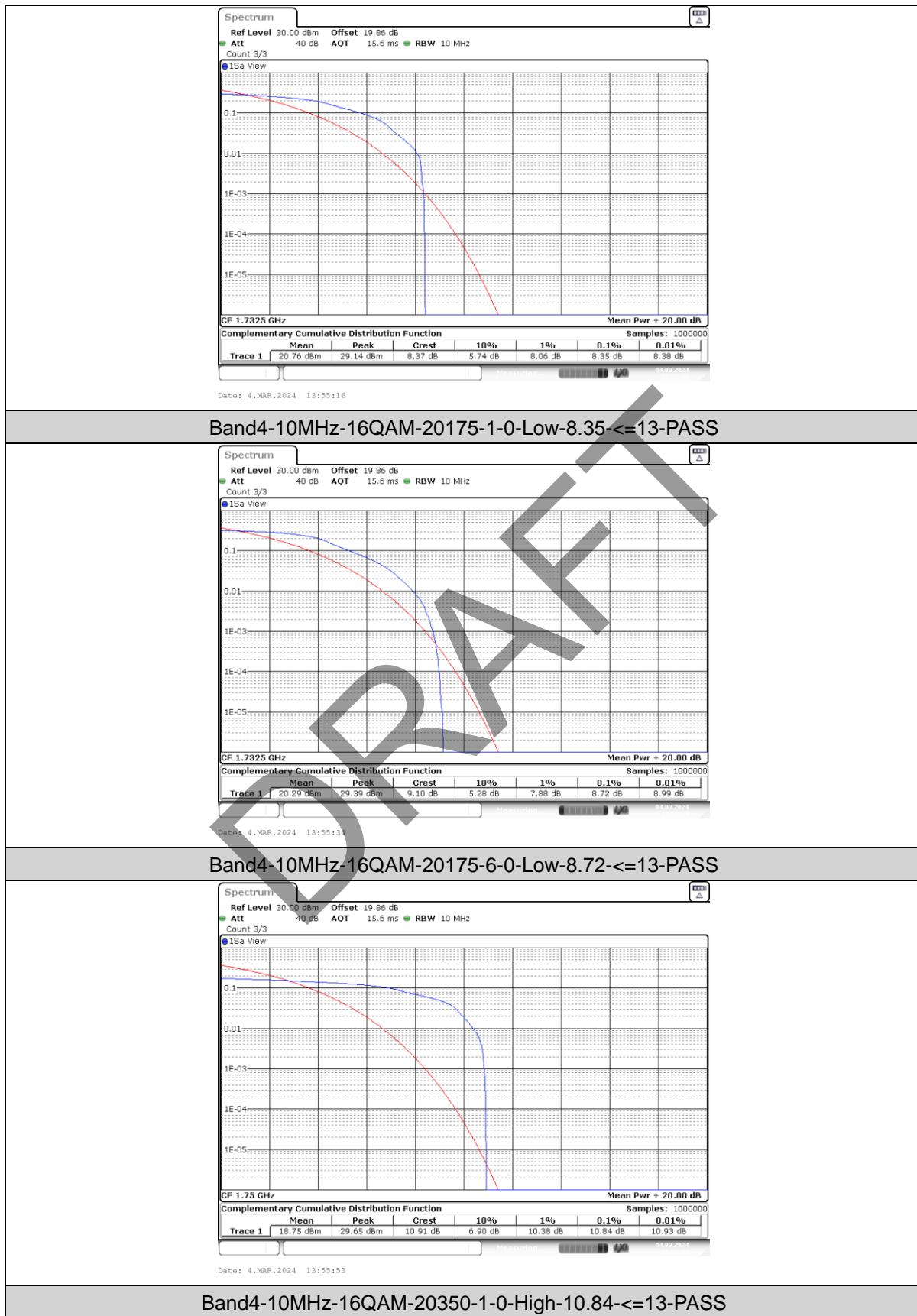
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



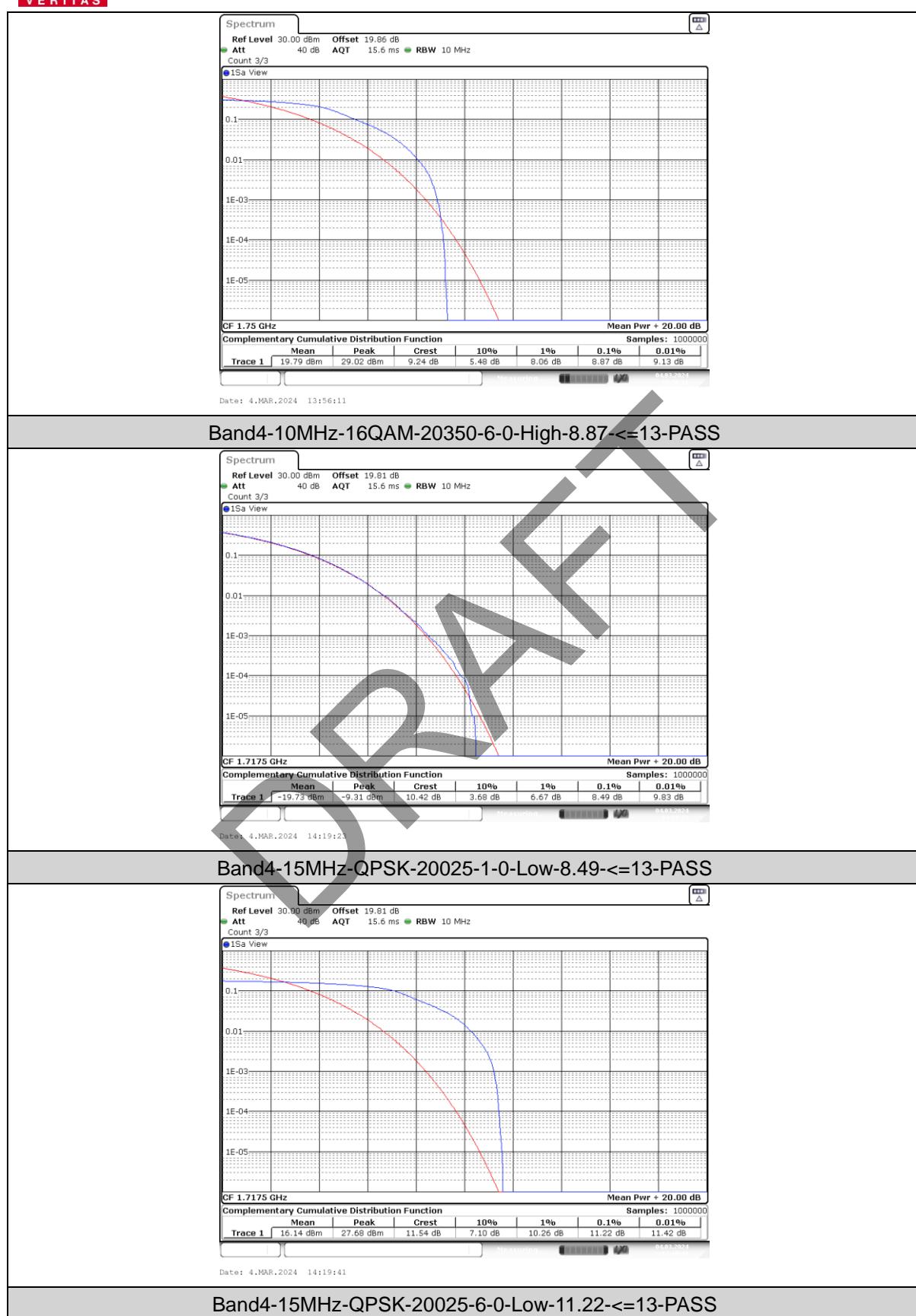
## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



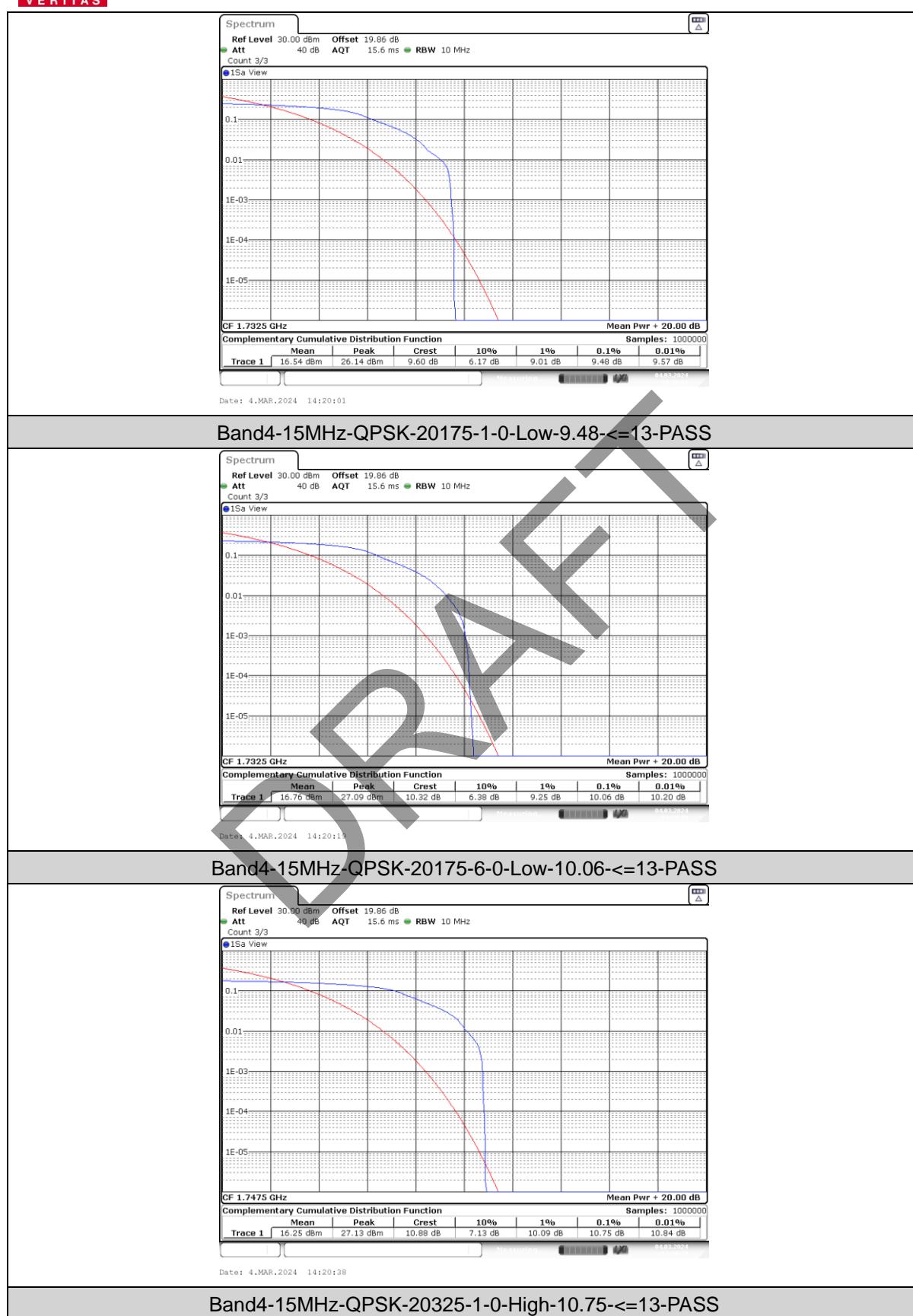


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



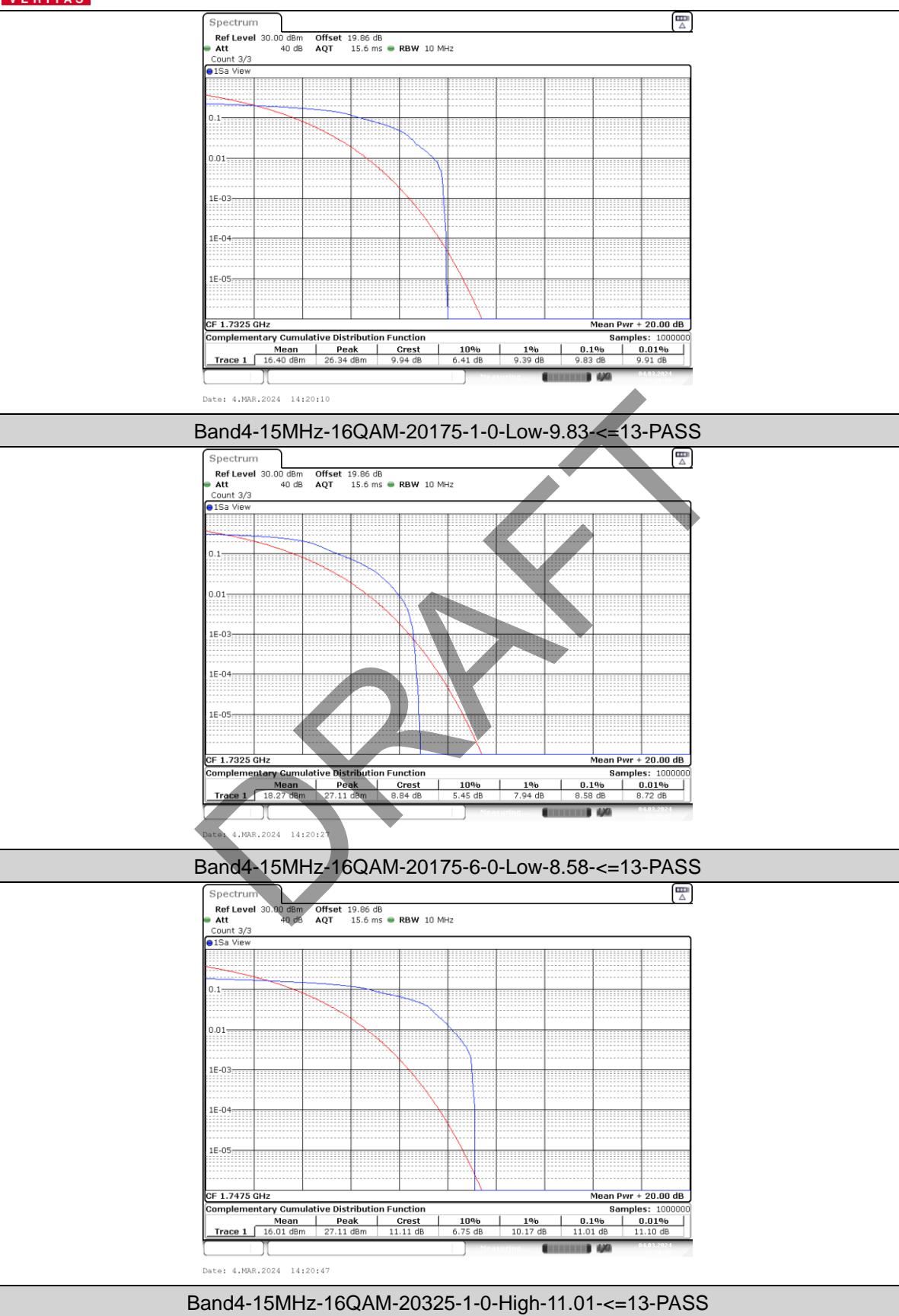
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

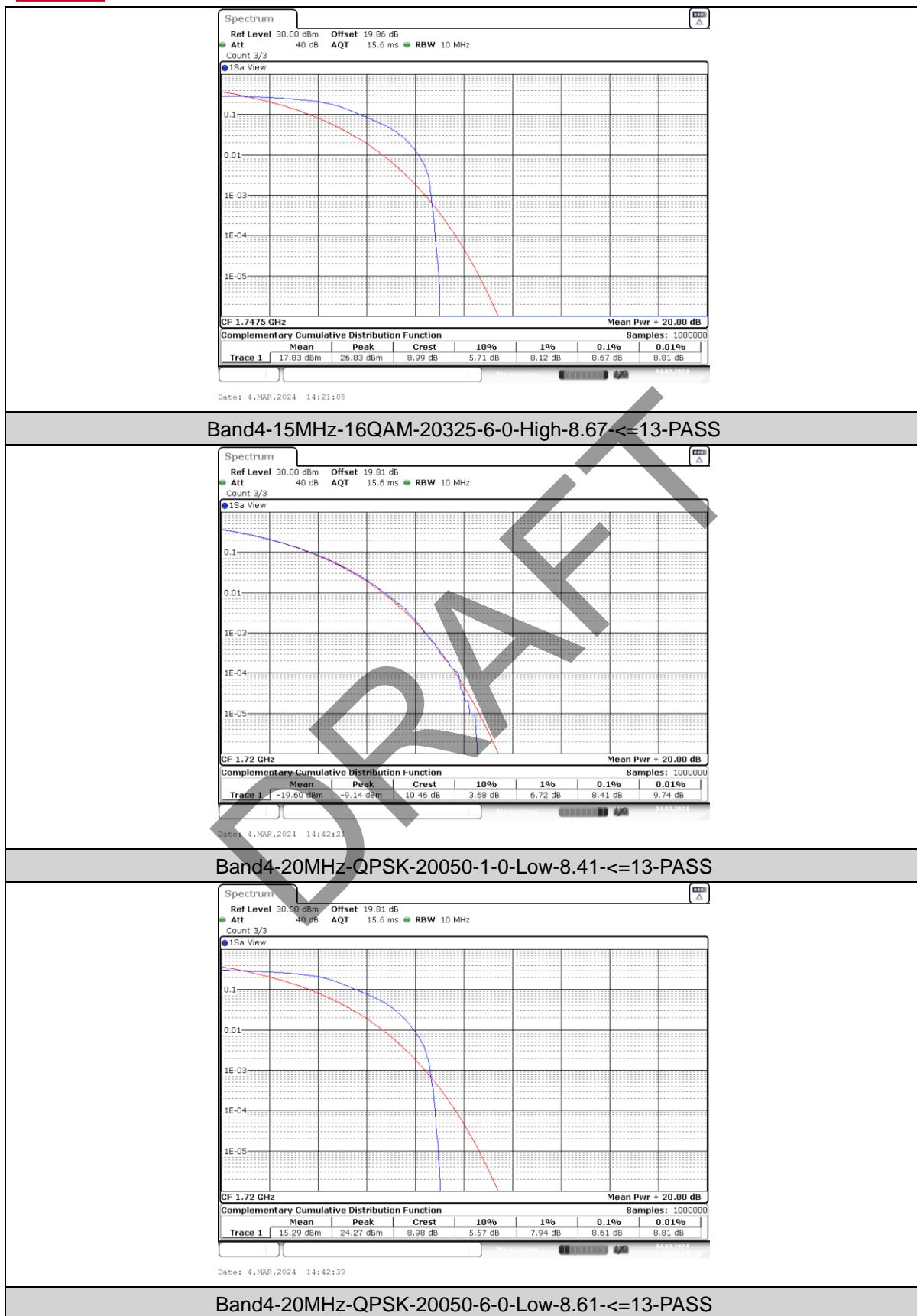
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



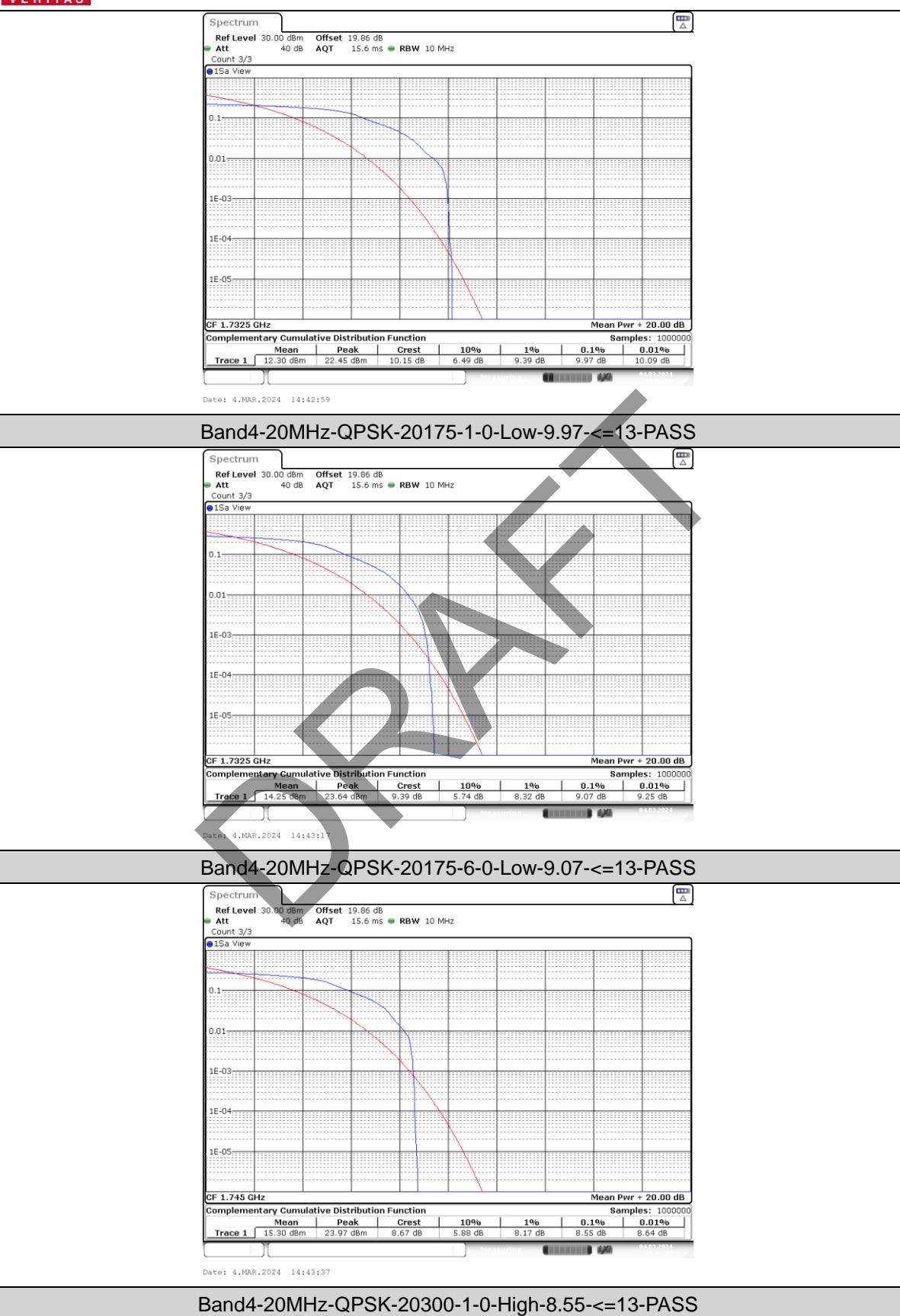
## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04



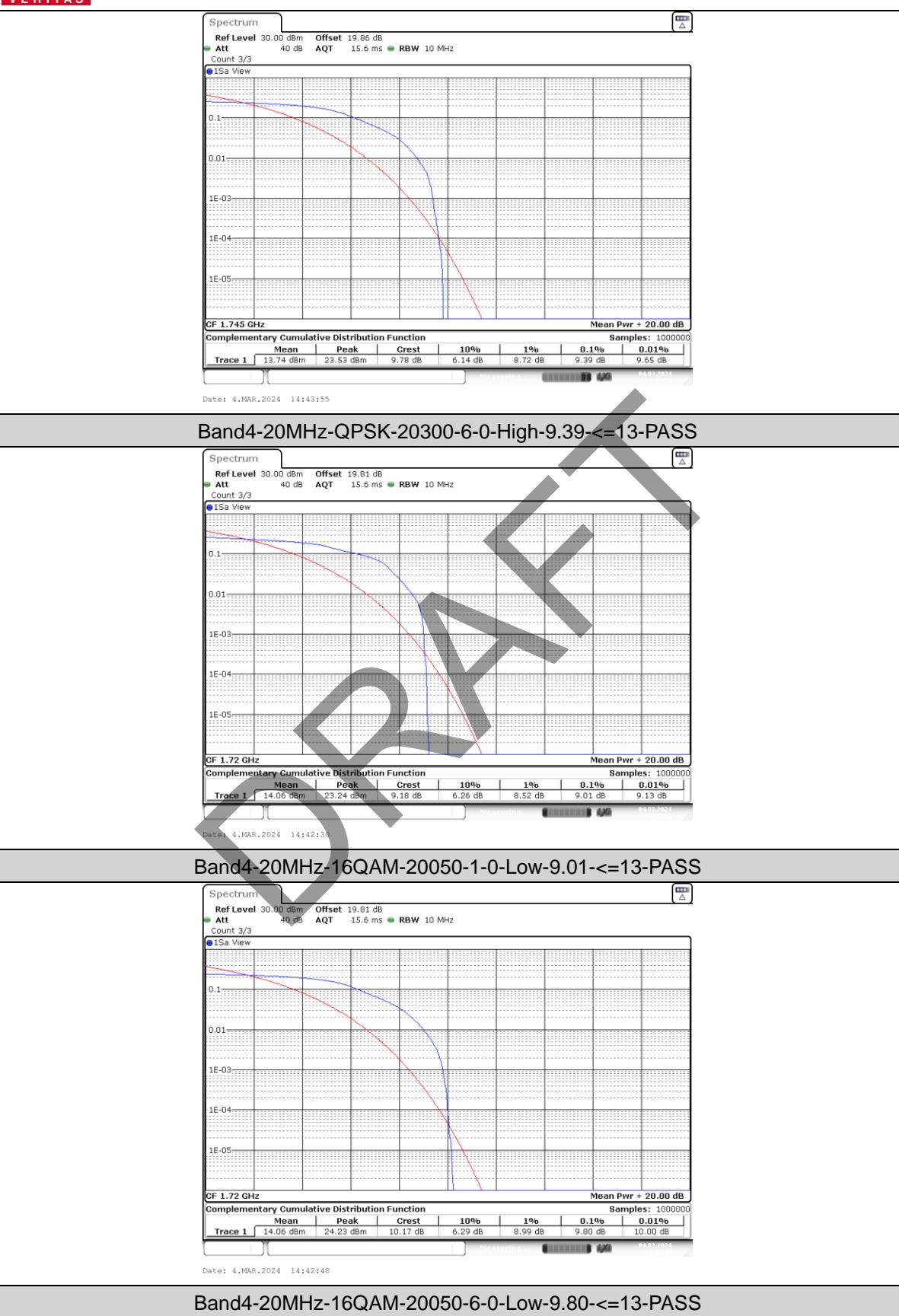
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



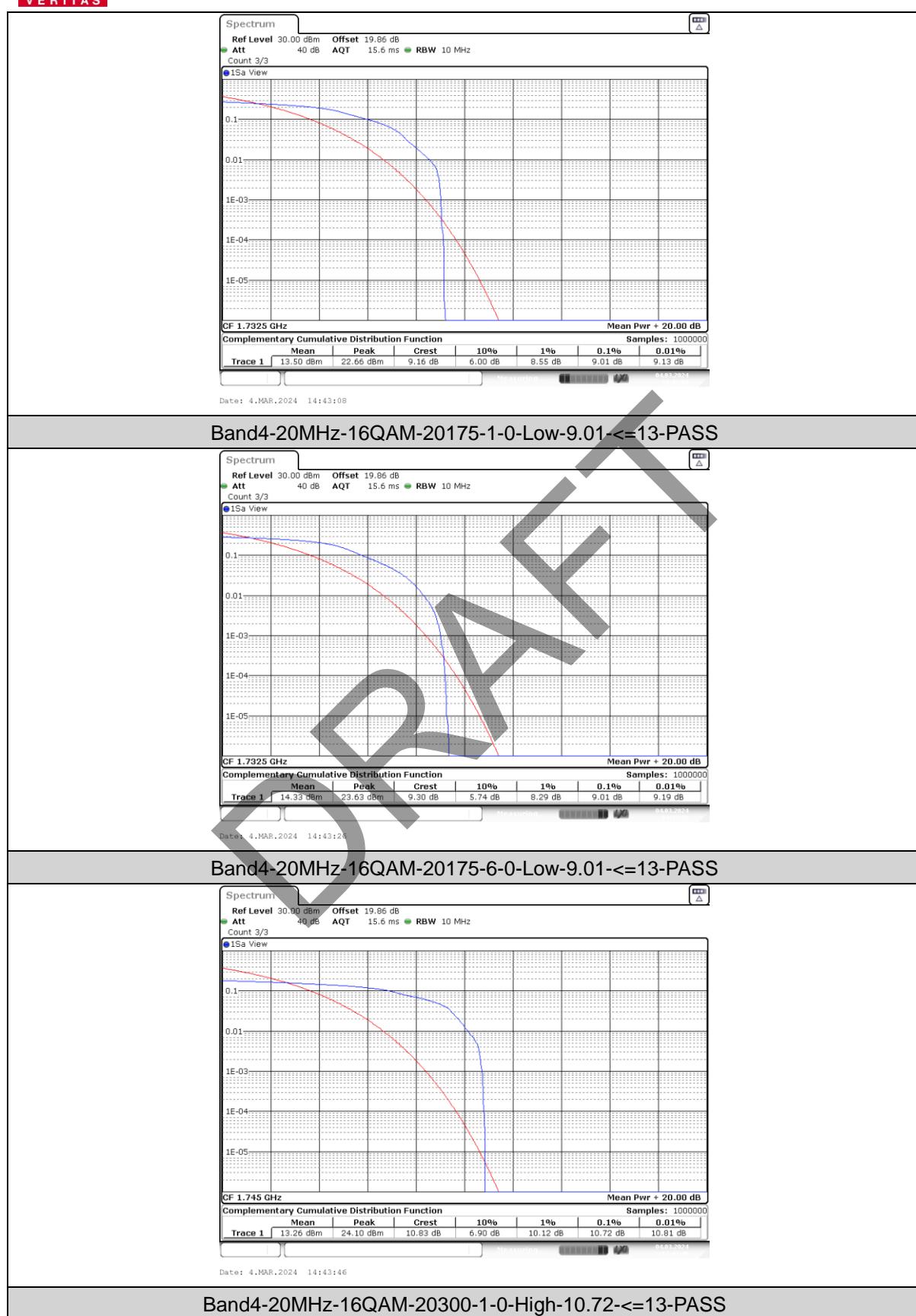
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



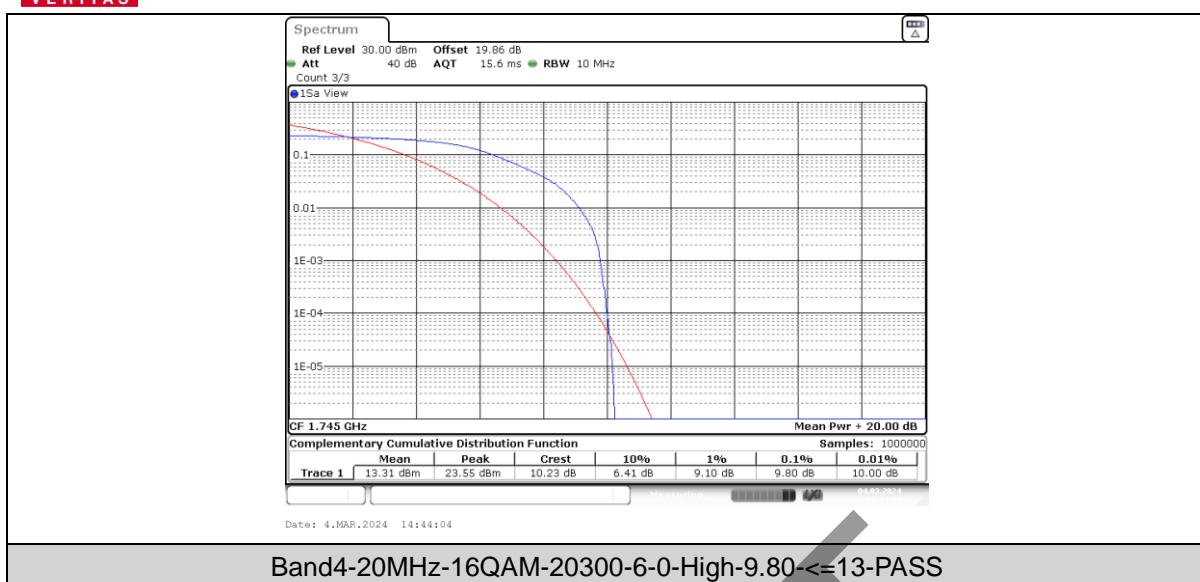
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



Test Report No.: W7L-P23120015RI04



## Band 66 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIIndex	Result(dB)	Limit(dB)	Verdict
Band66	1.4MHz	131979	QPSK	1	0	Low	8.67	<=13	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	8.75	<=13	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	10.52	<=13	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	11.57	<=13	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	9.80	<=13	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	8.49	<=13	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	8.84	<=13	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	10.32	<=13	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	10.17	<=13	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	9.48	<=13	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	9.59	<=13	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	8.49	<=13	PASS
Band66	3MHz	131987	QPSK	1	0	Low	7.68	<=13	PASS
Band66	3MHz	131987	QPSK	6	0	Low	9.74	<=13	PASS
Band66	3MHz	132322	QPSK	1	0	Low	7.57	<=13	PASS
Band66	3MHz	132322	QPSK	6	0	Low	10.70	<=13	PASS
Band66	3MHz	132657	QPSK	1	0	High	9.91	<=13	PASS
Band66	3MHz	132657	QPSK	6	0	High	8.55	<=13	PASS
Band66	3MHz	131987	16QAM	1	0	Low	10.58	<=13	PASS
Band66	3MHz	131987	16QAM	6	0	Low	9.97	<=13	PASS
Band66	3MHz	132322	16QAM	1	0	Low	9.88	<=13	PASS
Band66	3MHz	132322	16QAM	6	0	Low	11.59	<=13	PASS
Band66	3MHz	132657	16QAM	1	0	High	10.72	<=13	PASS
Band66	3MHz	132657	16QAM	6	0	High	9.16	<=13	PASS
Band66	5MHz	131997	QPSK	1	0	Low	3.74	<=13	PASS
Band66	5MHz	131997	QPSK	6	0	Low	8.78	<=13	PASS
Band66	5MHz	132322	QPSK	1	0	Low	10.72	<=13	PASS
Band66	5MHz	132322	QPSK	6	0	Low	10.12	<=13	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	5MHz	132647	QPSK	1	0	High	9.91	<=13	PASS
Band66	5MHz	132647	QPSK	6	0	High	8.00	<=13	PASS
Band66	5MHz	131997	16QAM	1	0	Low	9.86	<=13	PASS
Band66	5MHz	131997	16QAM	6	0	Low	9.57	<=13	PASS
Band66	5MHz	132322	16QAM	1	0	Low	8.14	<=13	PASS
Band66	5MHz	132322	16QAM	6	0	Low	8.90	<=13	PASS
Band66	5MHz	132647	16QAM	1	0	High	8.84	<=13	PASS
Band66	5MHz	132647	16QAM	6	0	High	10.81	<=13	PASS
Band66	10MHz	132022	QPSK	1	0	Low	5.13	<=13	PASS
Band66	10MHz	132022	QPSK	6	0	Low	8.64	<=13	PASS
Band66	10MHz	132322	QPSK	1	0	Low	7.77	<=13	PASS
Band66	10MHz	132322	QPSK	6	0	Low	9.83	<=13	PASS
Band66	10MHz	132622	QPSK	1	0	High	7.77	<=13	PASS
Band66	10MHz	132622	QPSK	6	0	High	8.29	<=13	PASS
Band66	10MHz	132022	16QAM	1	0	Low	8.67	<=13	PASS
Band66	10MHz	132022	16QAM	6	0	Low	9.01	<=13	PASS
Band66	10MHz	132322	16QAM	1	0	Low	8.03	<=13	PASS
Band66	10MHz	132322	16QAM	6	0	Low	8.52	<=13	PASS
Band66	10MHz	132622	16QAM	1	0	High	7.33	<=13	PASS
Band66	10MHz	132622	16QAM	6	0	High	7.94	<=13	PASS
Band66	15MHz	132047	QPSK	1	0	Low	8.43	<=13	PASS
Band66	15MHz	132047	QPSK	6	0	Low	8.32	<=13	PASS
Band66	15MHz	132322	QPSK	1	0	Low	9.45	<=13	PASS
Band66	15MHz	132322	QPSK	6	0	Low	10.61	<=13	PASS
Band66	15MHz	132597	QPSK	1	0	High	7.94	<=13	PASS
Band66	15MHz	132597	QPSK	6	0	High	7.65	<=13	PASS
Band66	15MHz	132047	16QAM	1	0	Low	8.00	<=13	PASS
Band66	15MHz	132047	16QAM	6	0	Low	8.23	<=13	PASS
Band66	15MHz	132322	16QAM	1	0	Low	10.90	<=13	PASS
Band66	15MHz	132322	16QAM	6	0	Low	8.09	<=13	PASS
Band66	15MHz	132597	16QAM	1	0	High	8.29	<=13	PASS
Band66	15MHz	132597	16QAM	6	0	High	8.67	<=13	PASS
Band66	20MHz	132072	QPSK	1	0	Low	8.38	<=13	PASS
Band66	20MHz	132072	QPSK	6	0	Low	8.29	<=13	PASS
Band66	20MHz	132322	QPSK	1	0	Low	10.78	<=13	PASS
Band66	20MHz	132322	QPSK	6	0	Low	8.43	<=13	PASS
Band66	20MHz	132572	QPSK	1	0	High	7.13	<=13	PASS
Band66	20MHz	132572	QPSK	6	0	High	7.25	<=13	PASS
Band66	20MHz	132072	16QAM	1	0	Low	9.25	<=13	PASS
Band66	20MHz	132072	16QAM	6	0	Low	8.23	<=13	PASS
Band66	20MHz	132322	16QAM	1	0	Low	7.97	<=13	PASS
Band66	20MHz	132322	16QAM	6	0	Low	10.41	<=13	PASS
Band66	20MHz	132572	16QAM	1	0	High	6.49	<=13	PASS
Band66	20MHz	132572	16QAM	6	0	High	7.10	<=13	PASS



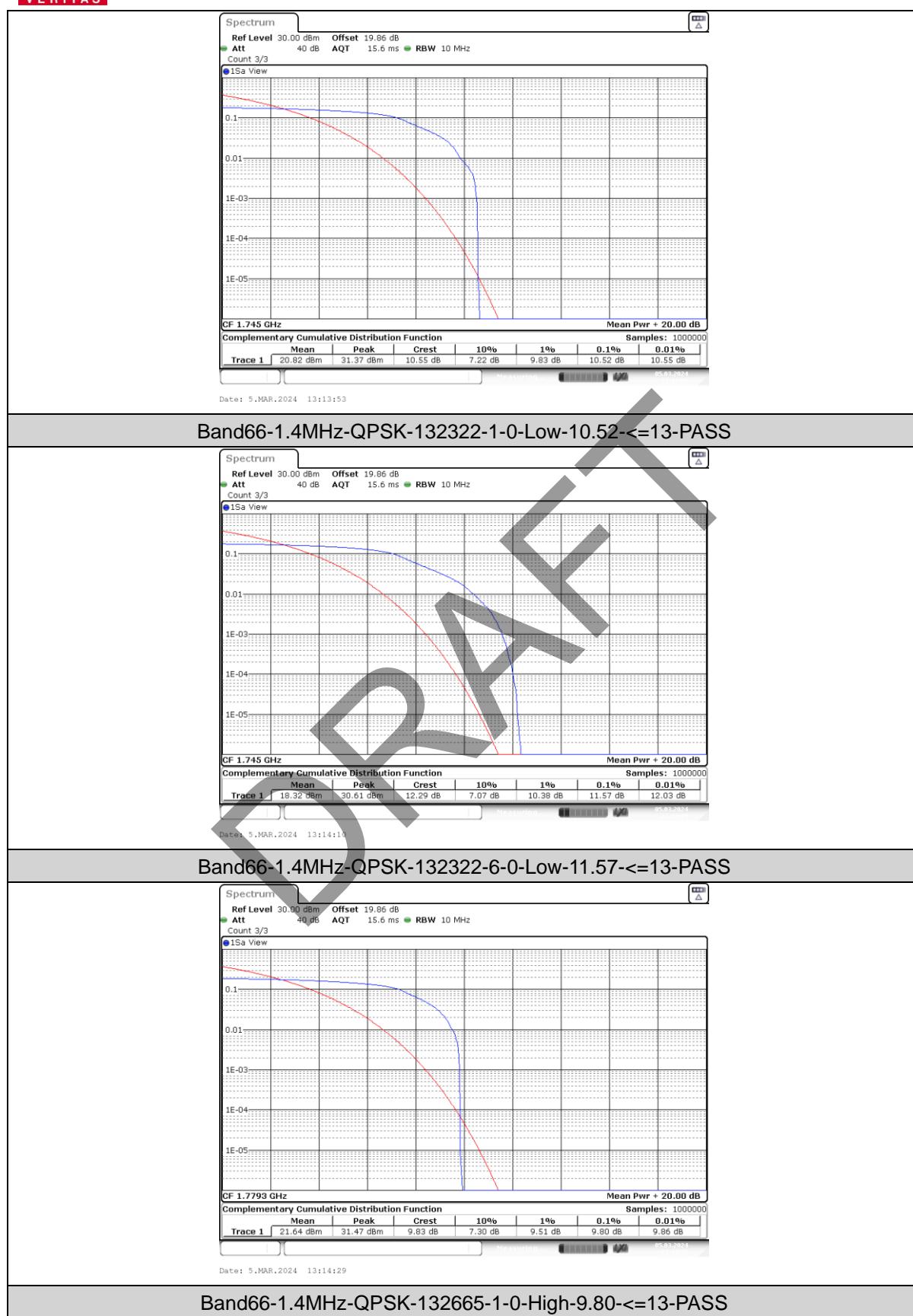
Test Report No.: W7L-P23120015RI04

## Band 66 Test Graphs





## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

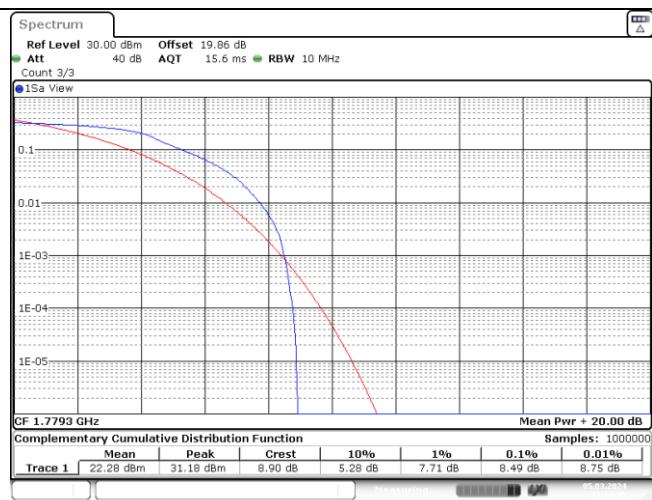
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04

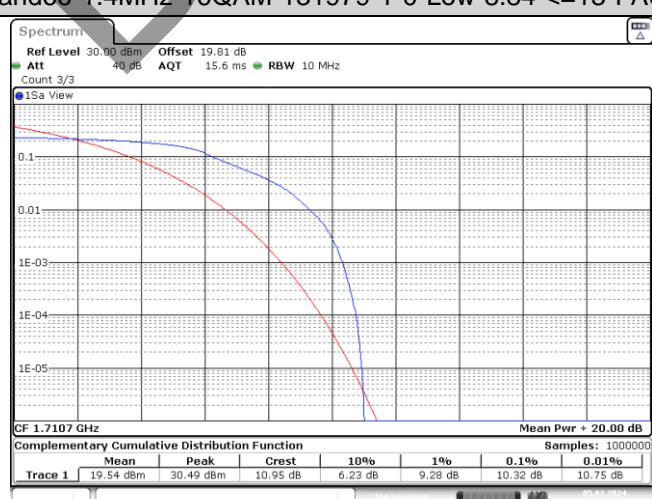
BUREAU  
VERITAS



### Band66-1.4MHz-QPSK-132665-6-0-High-8.49-<=13-PASS



### Band66-1.4MHz-16QAM-131979-1-0-Low-8.84-<=13-PASS



### Band66-1.4MHz-16QAM-131979-6-0-Low-10.32-<=13-PASS

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

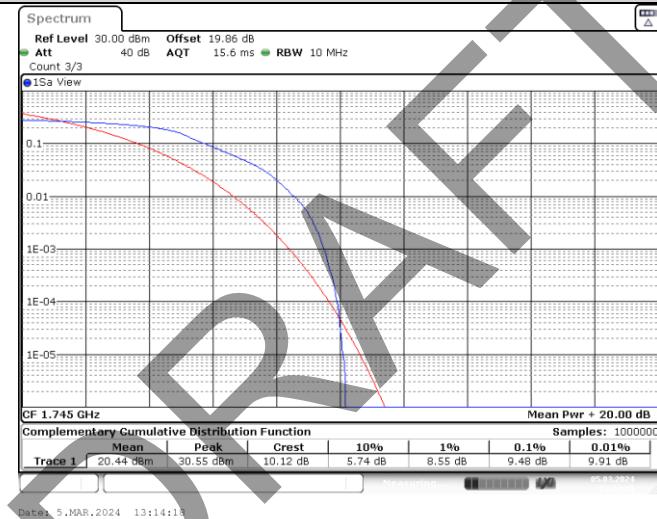


## Test Report No.: W7L-P23120015RI04

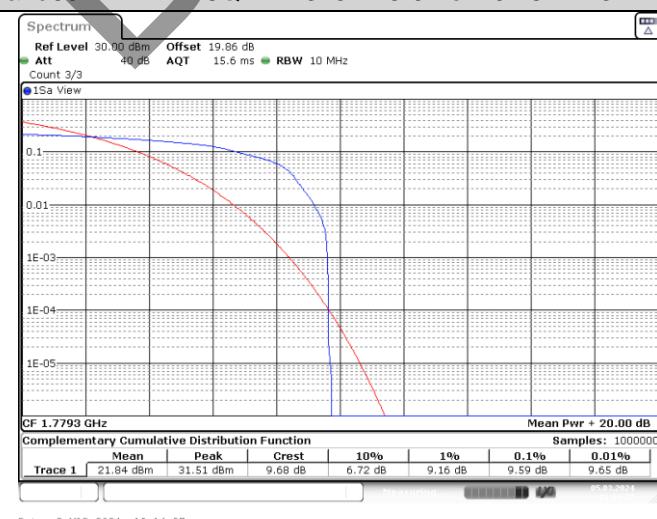
BUREAU  
VERITAS



### Band66-1.4MHz-16QAM-132322-1-0-Low-10.17-<=13-PASS



### Band66-1.4MHz-16QAM-132322-6-0-Low-9.48-<=13-PASS



### Band66-1.4MHz-16QAM-132665-1-0-High-9.59-<=13-PASS

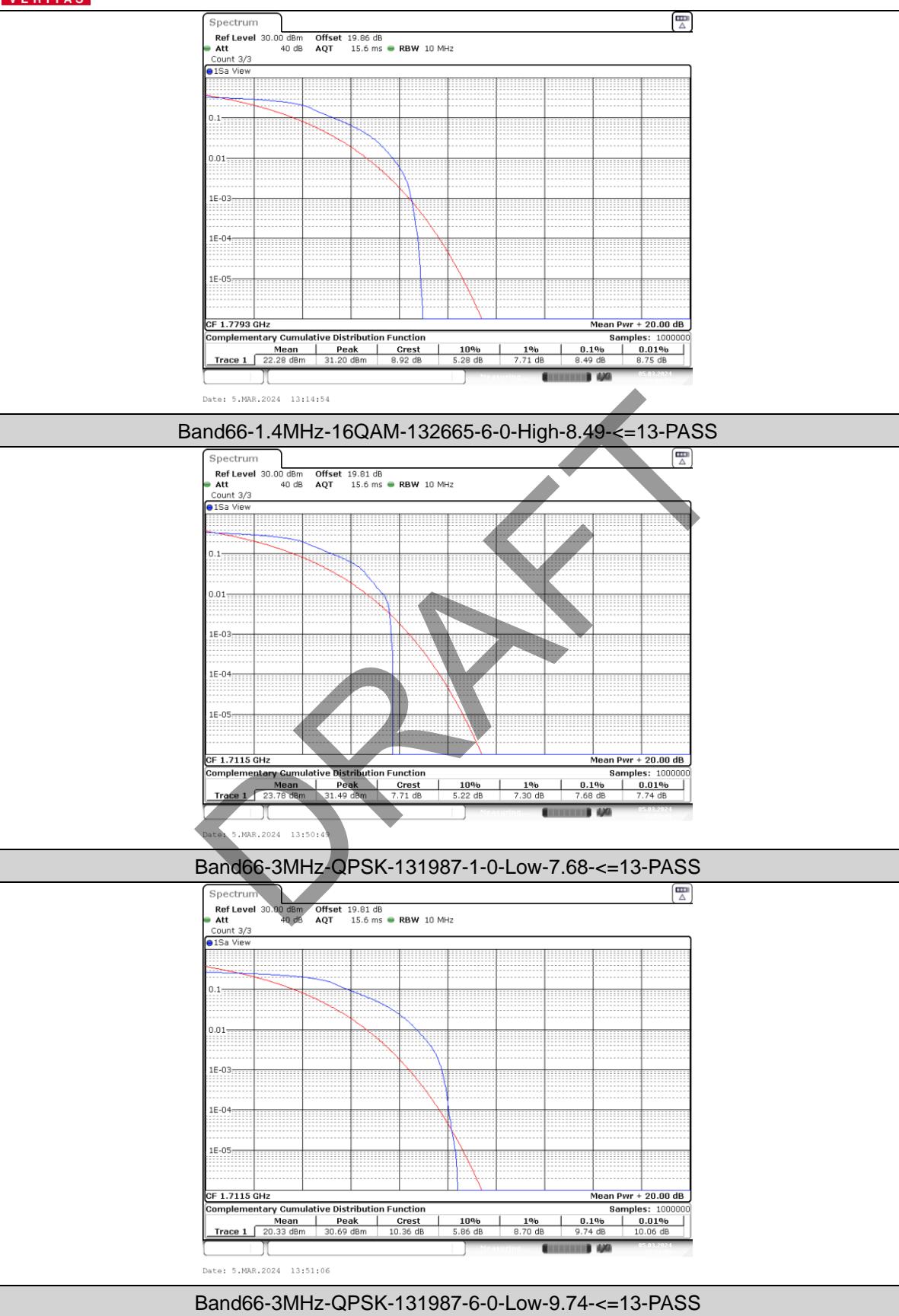
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

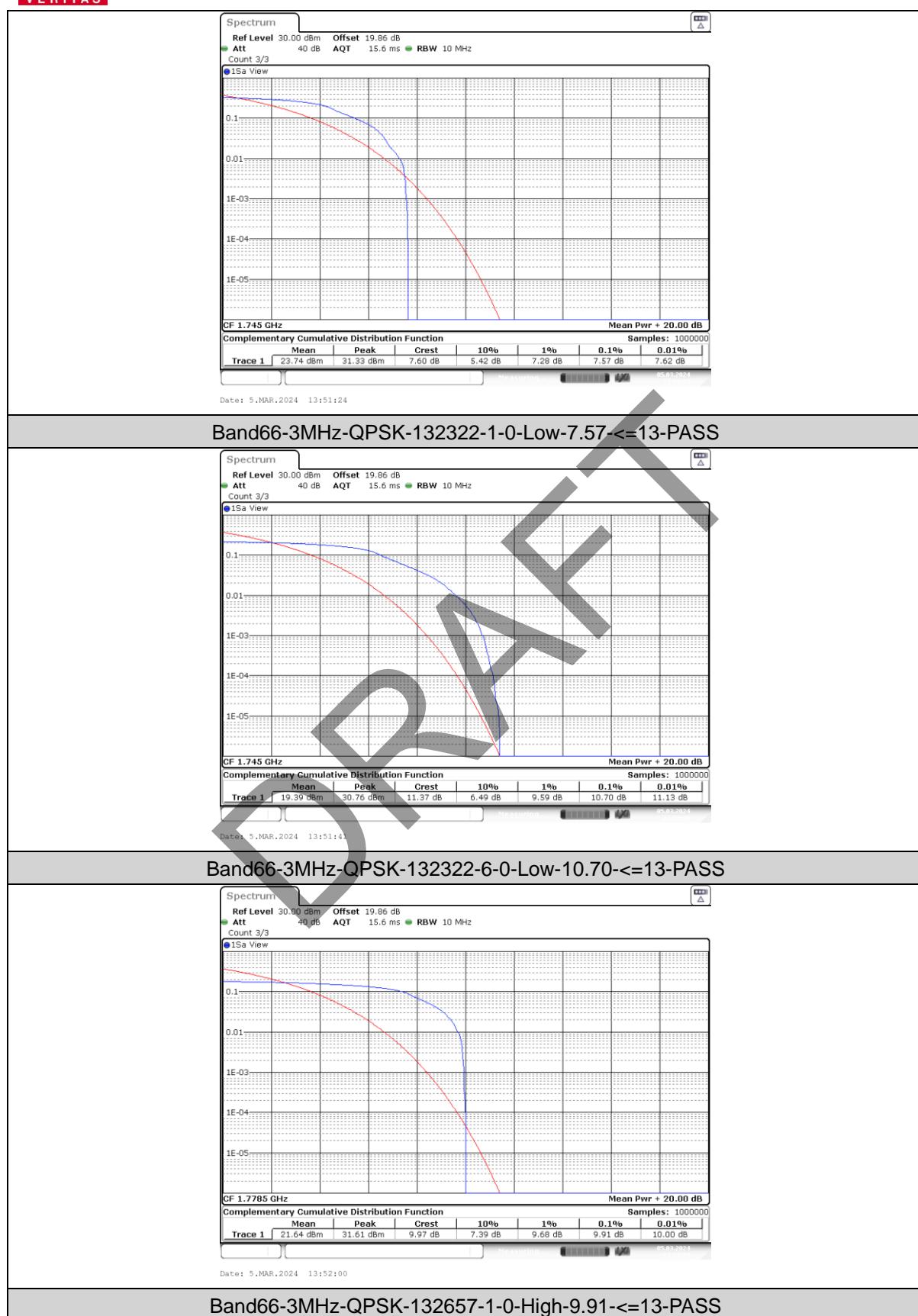


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



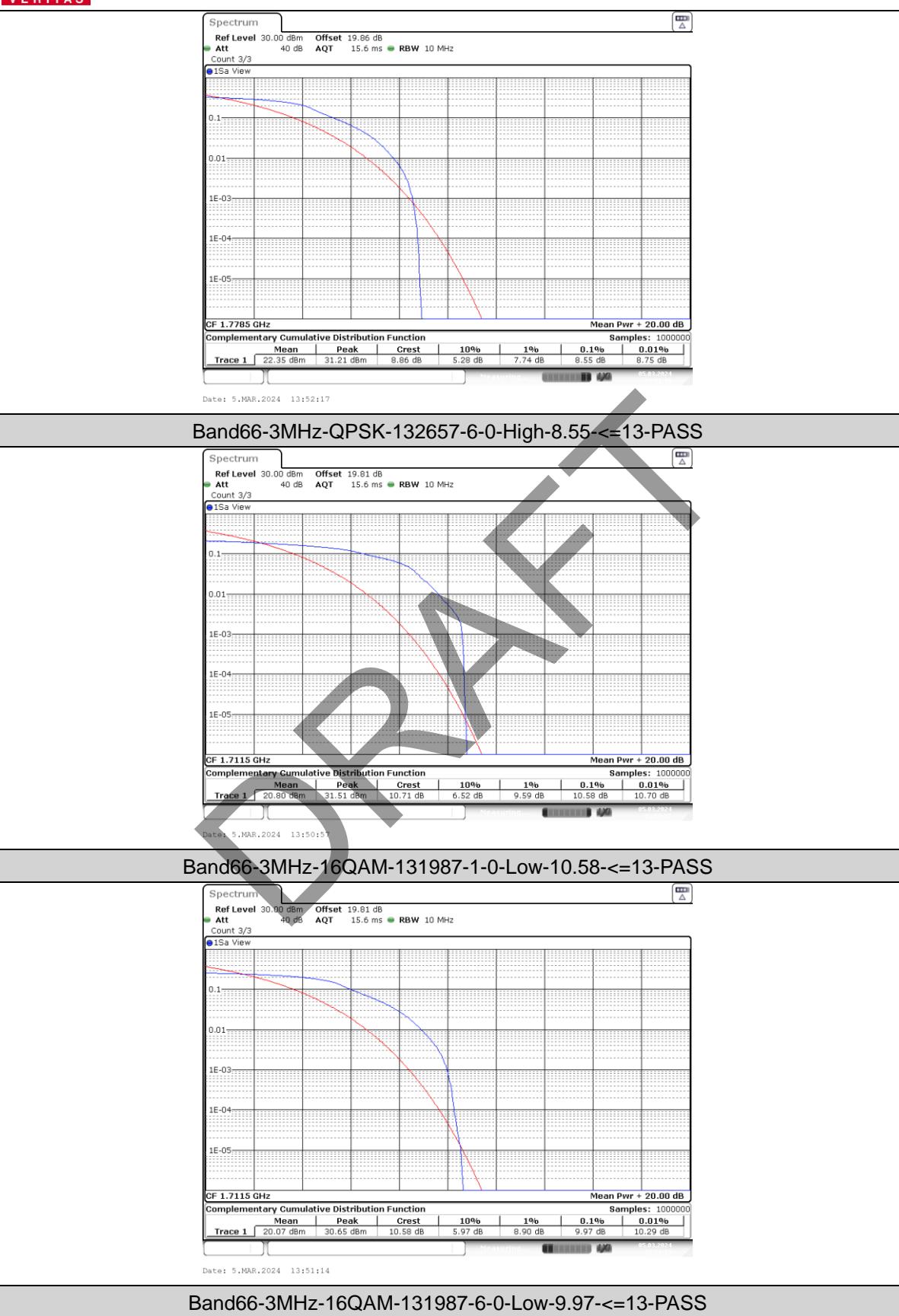
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

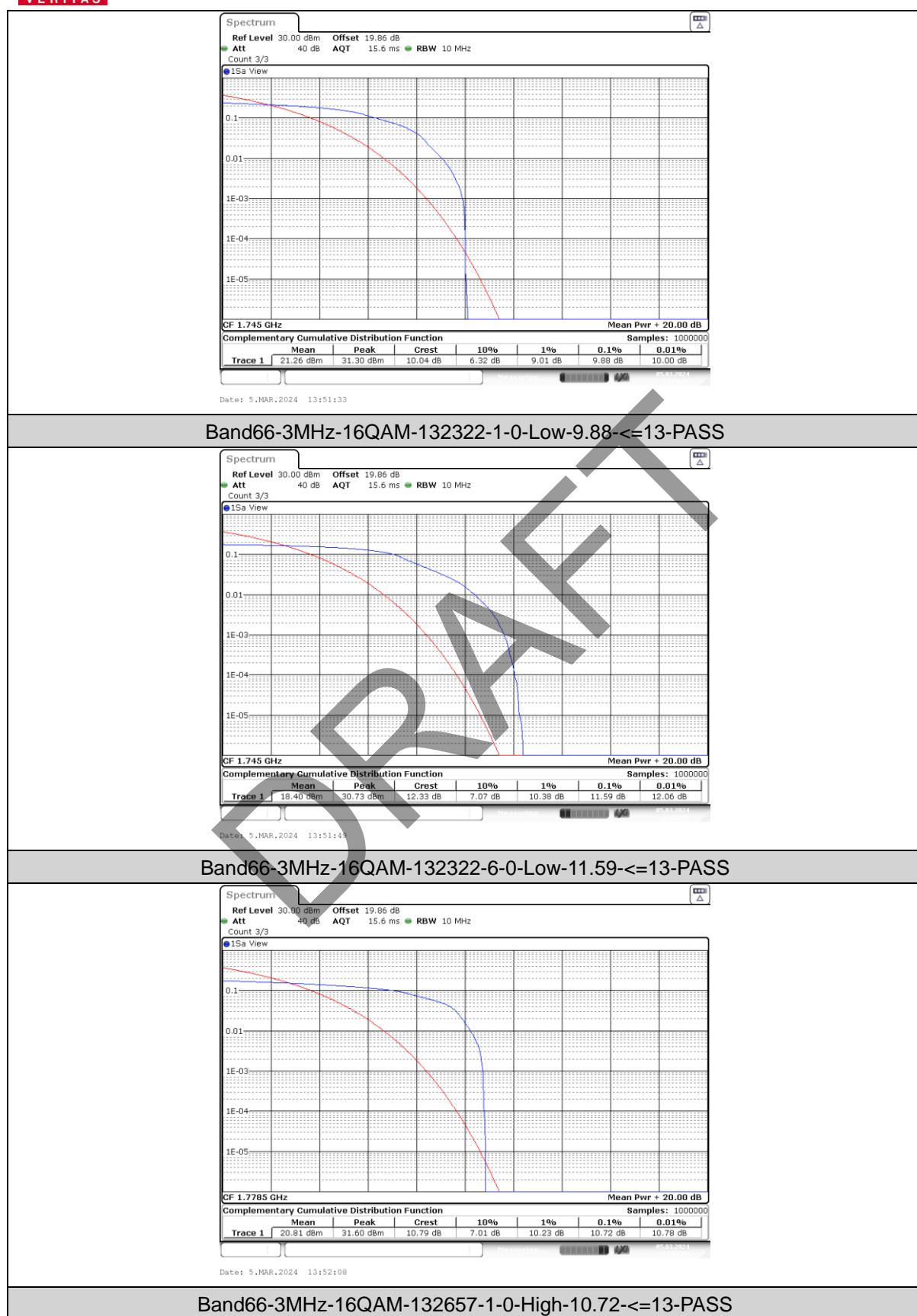


## Test Report No.: W7L-P23120015RI04



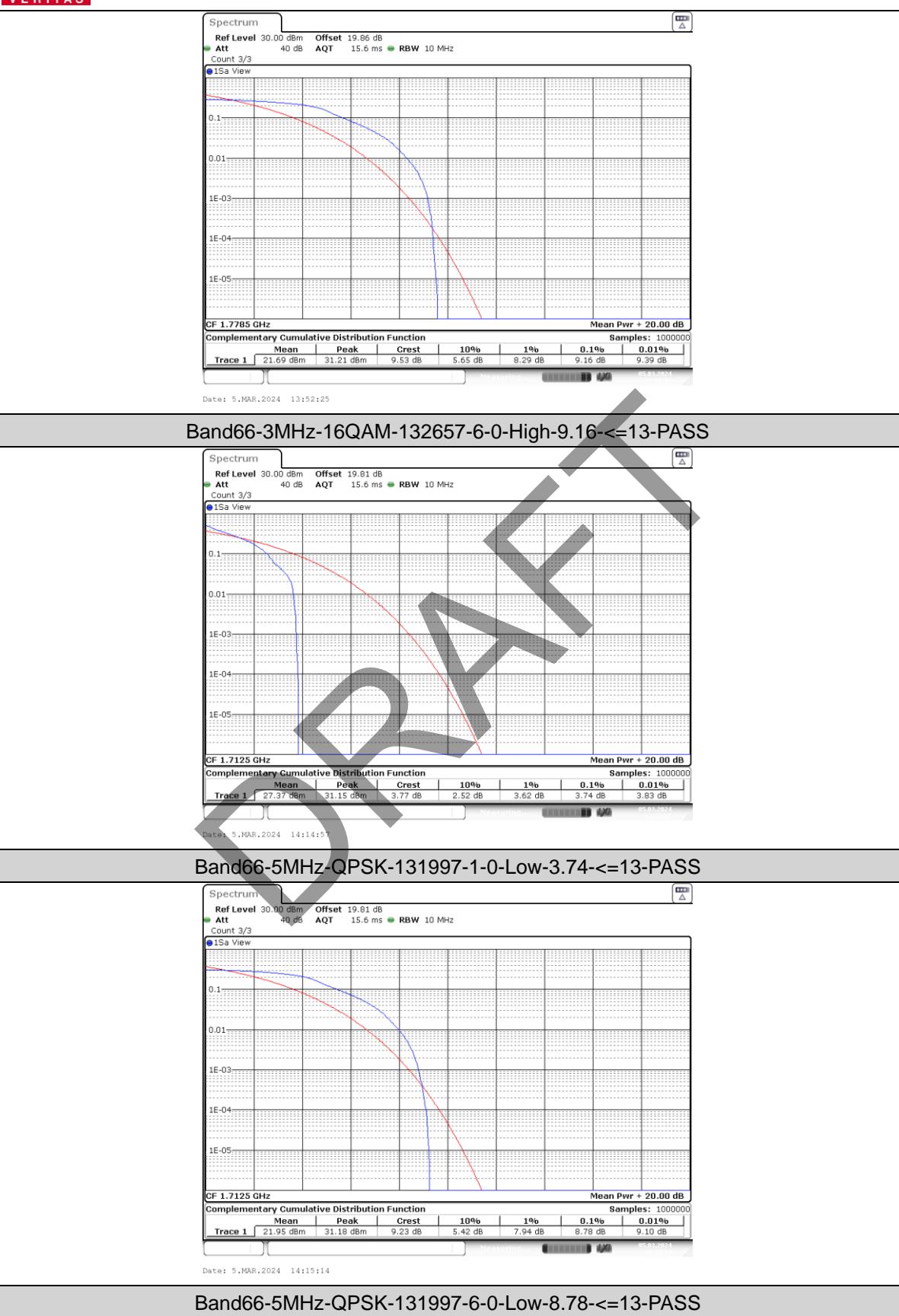


## Test Report No.: W7L-P23120015RI04



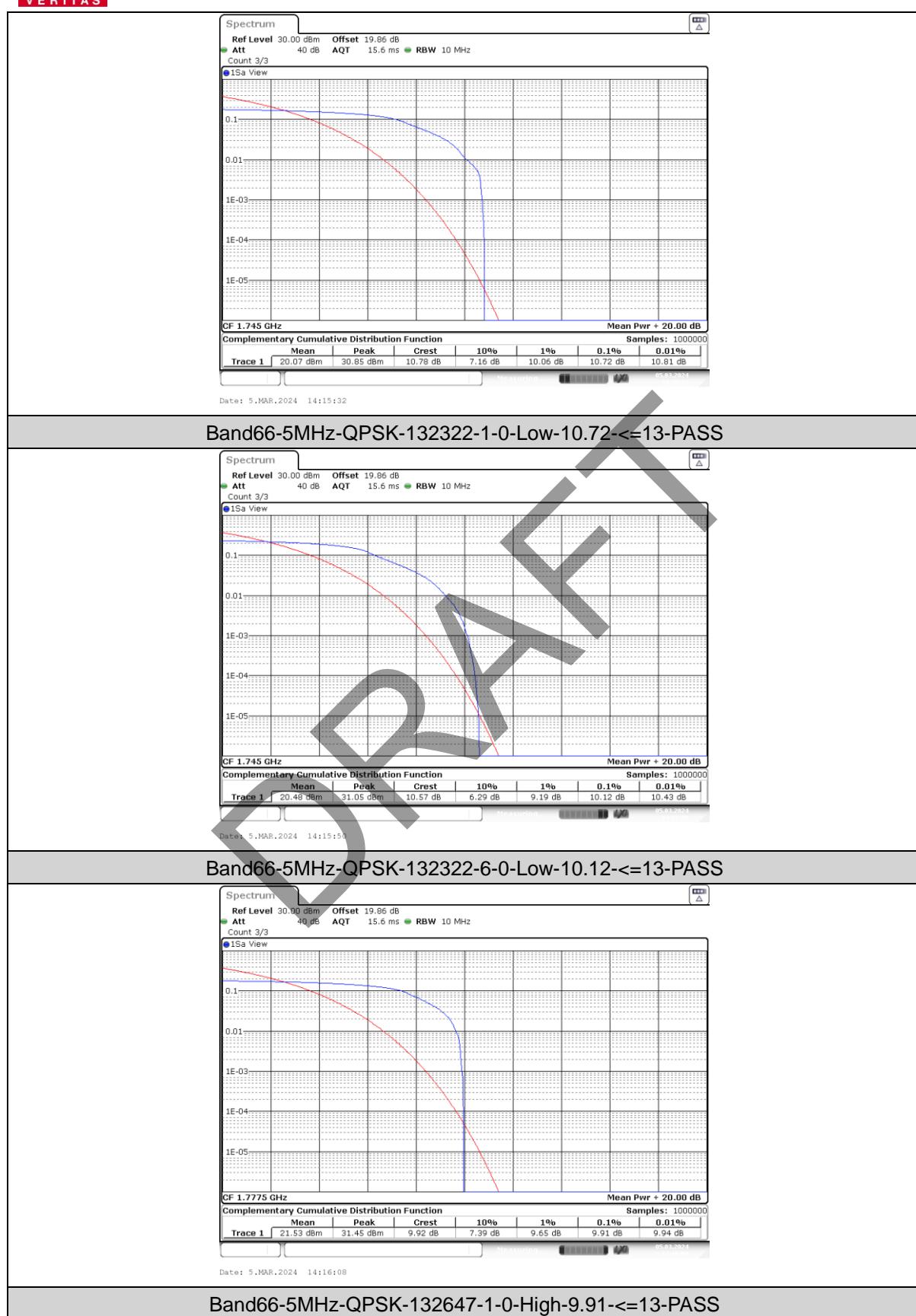


## Test Report No.: W7L-P23120015RI04





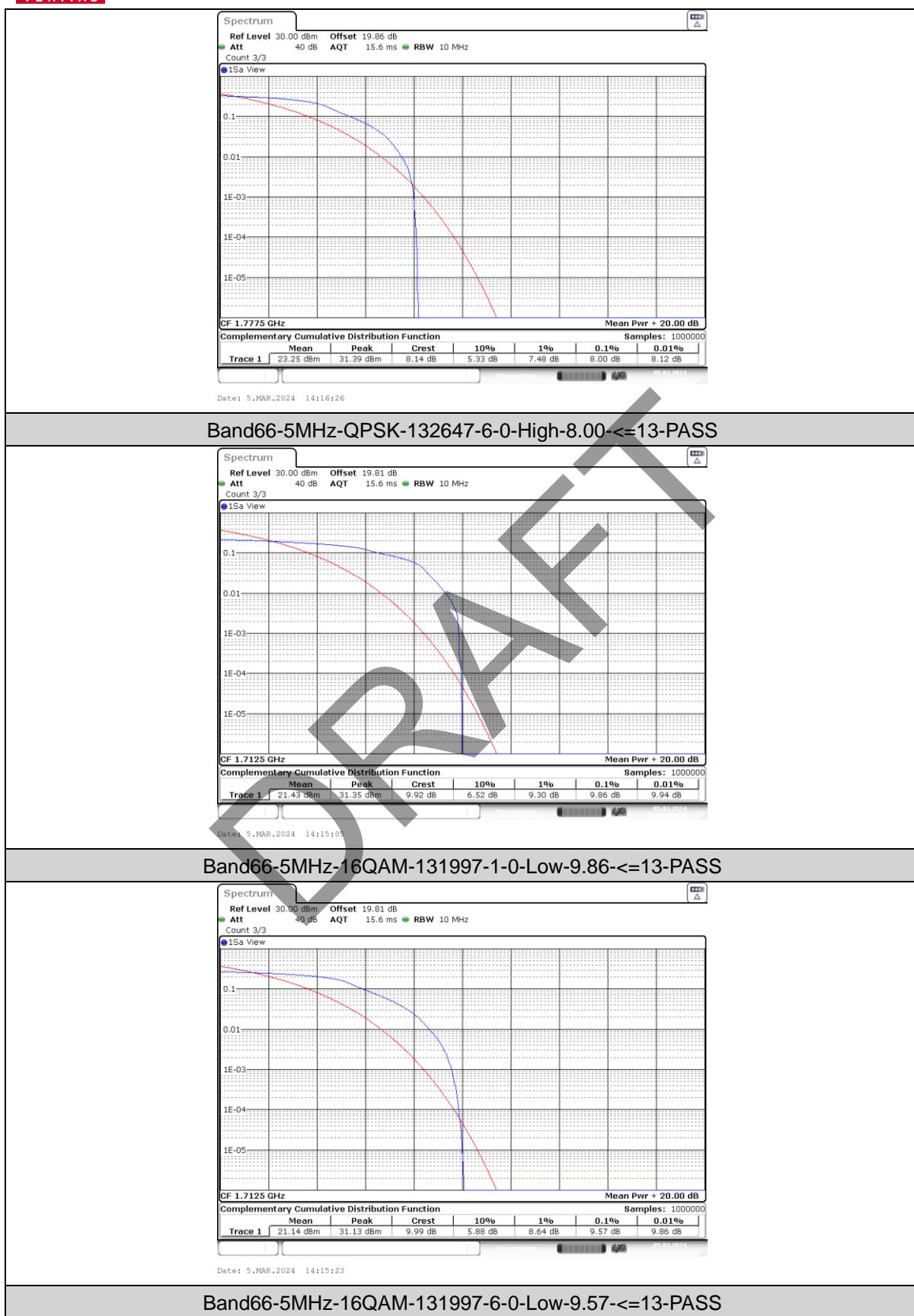
## Test Report No.: W7L-P23120015RI04





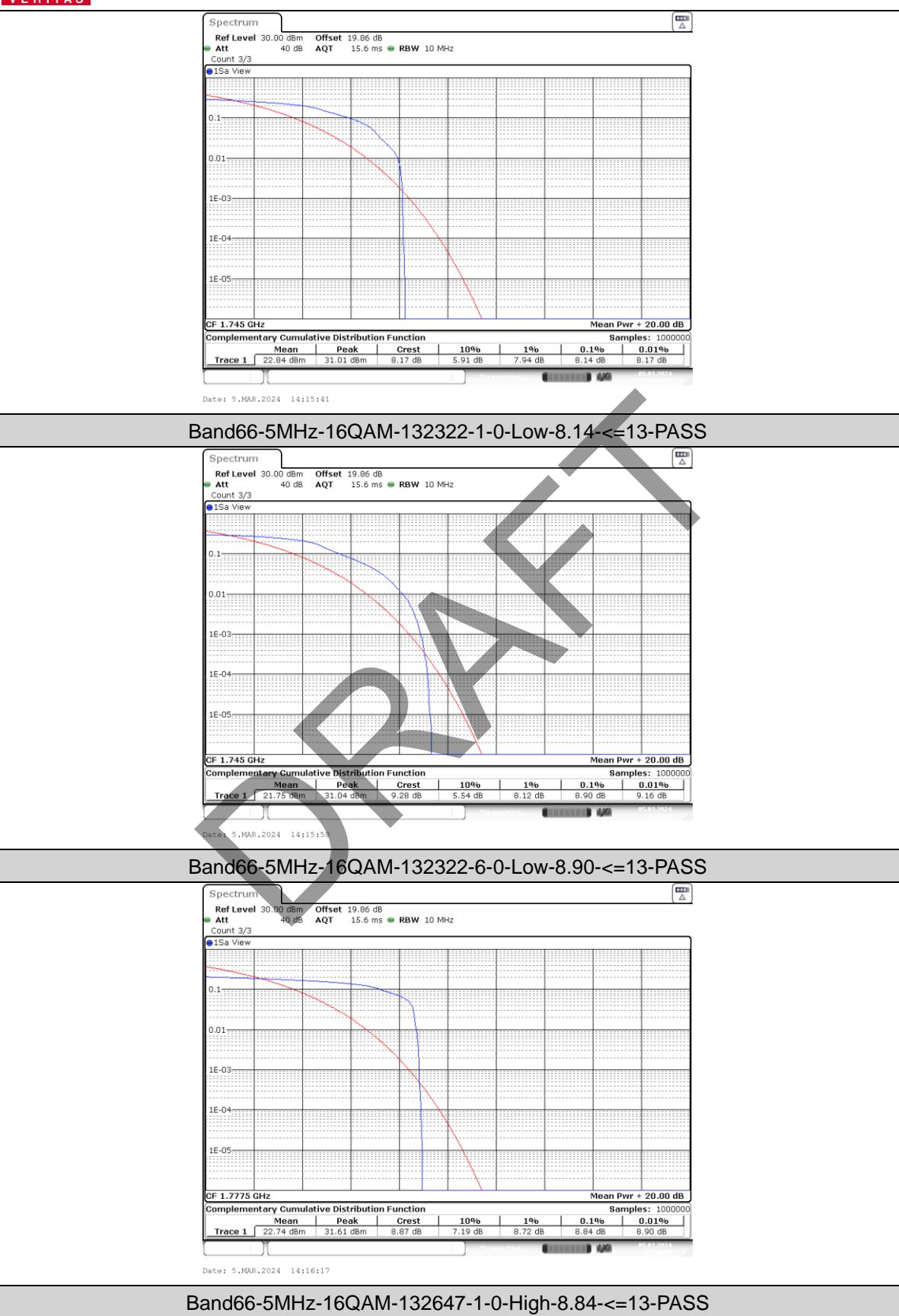
## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





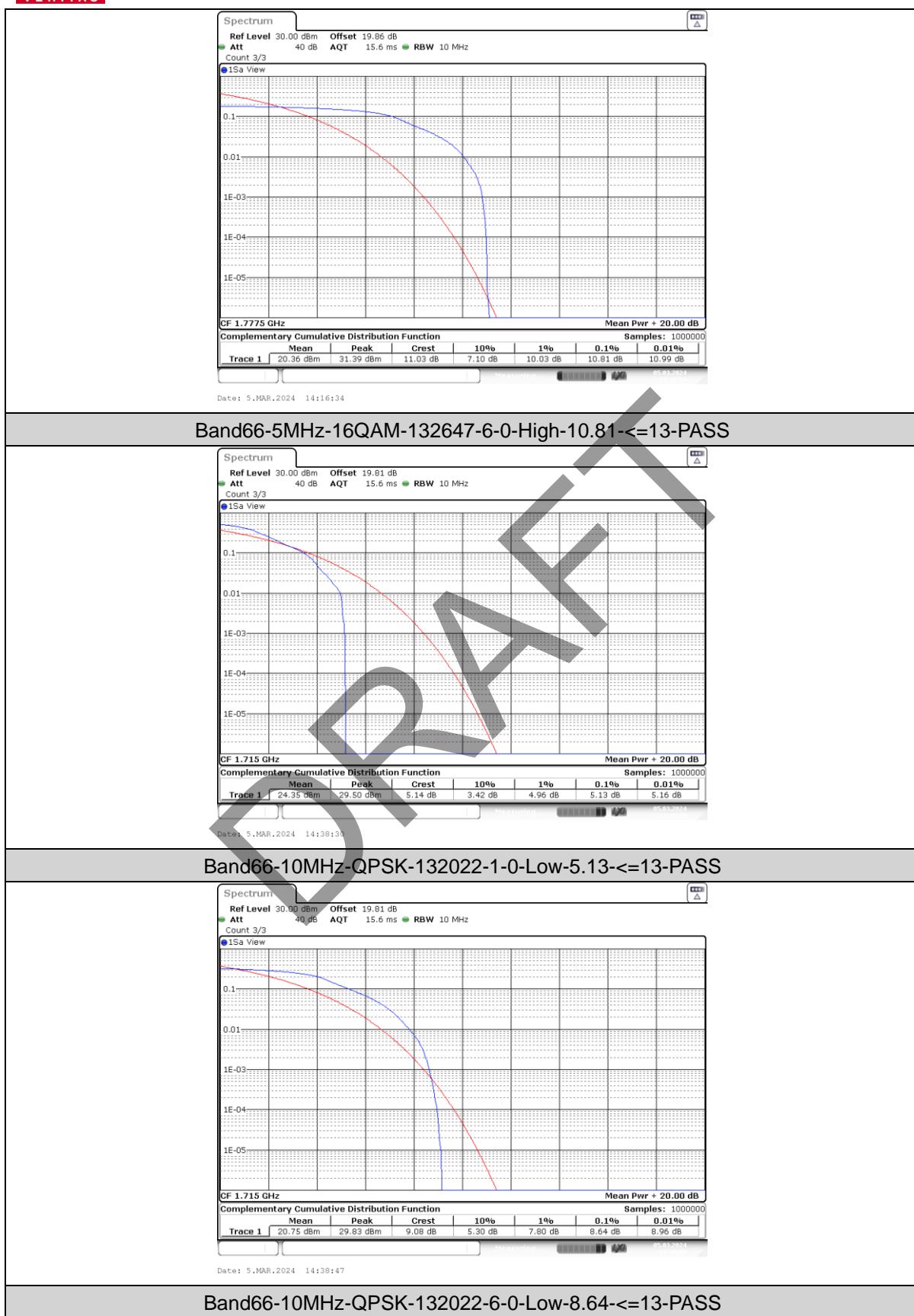
## Test Report No.: W7L-P23120015RI04





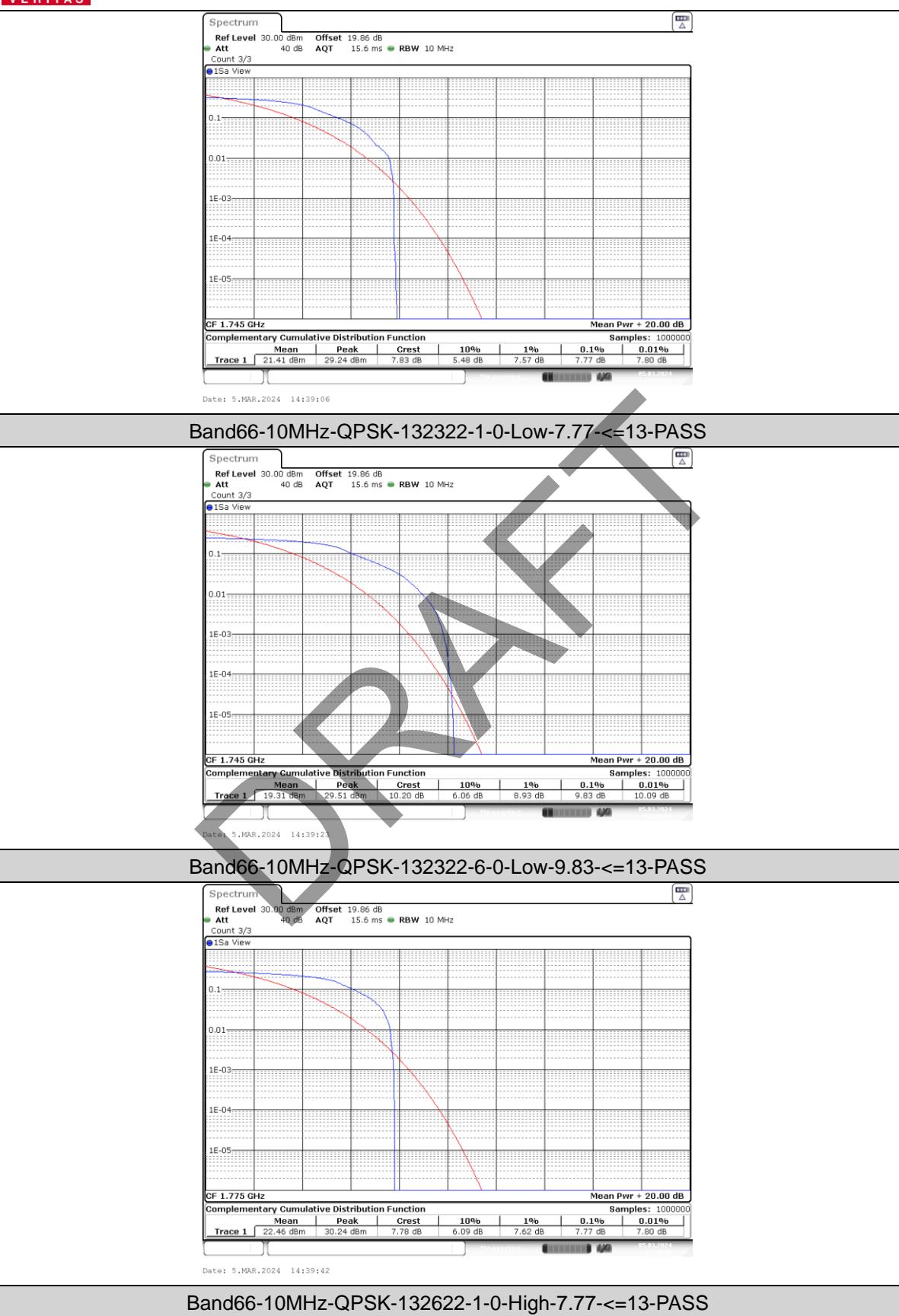
## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





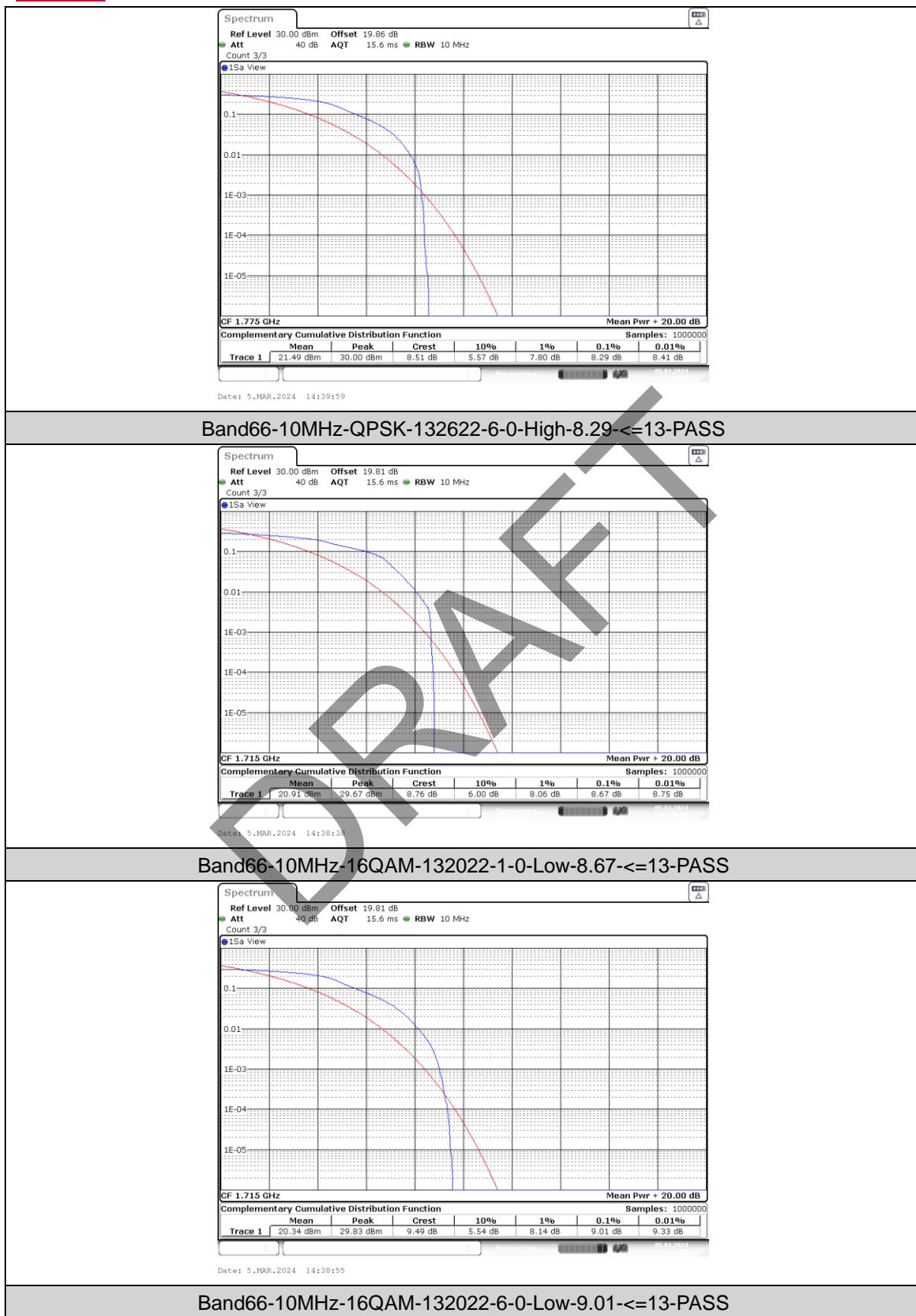
## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04

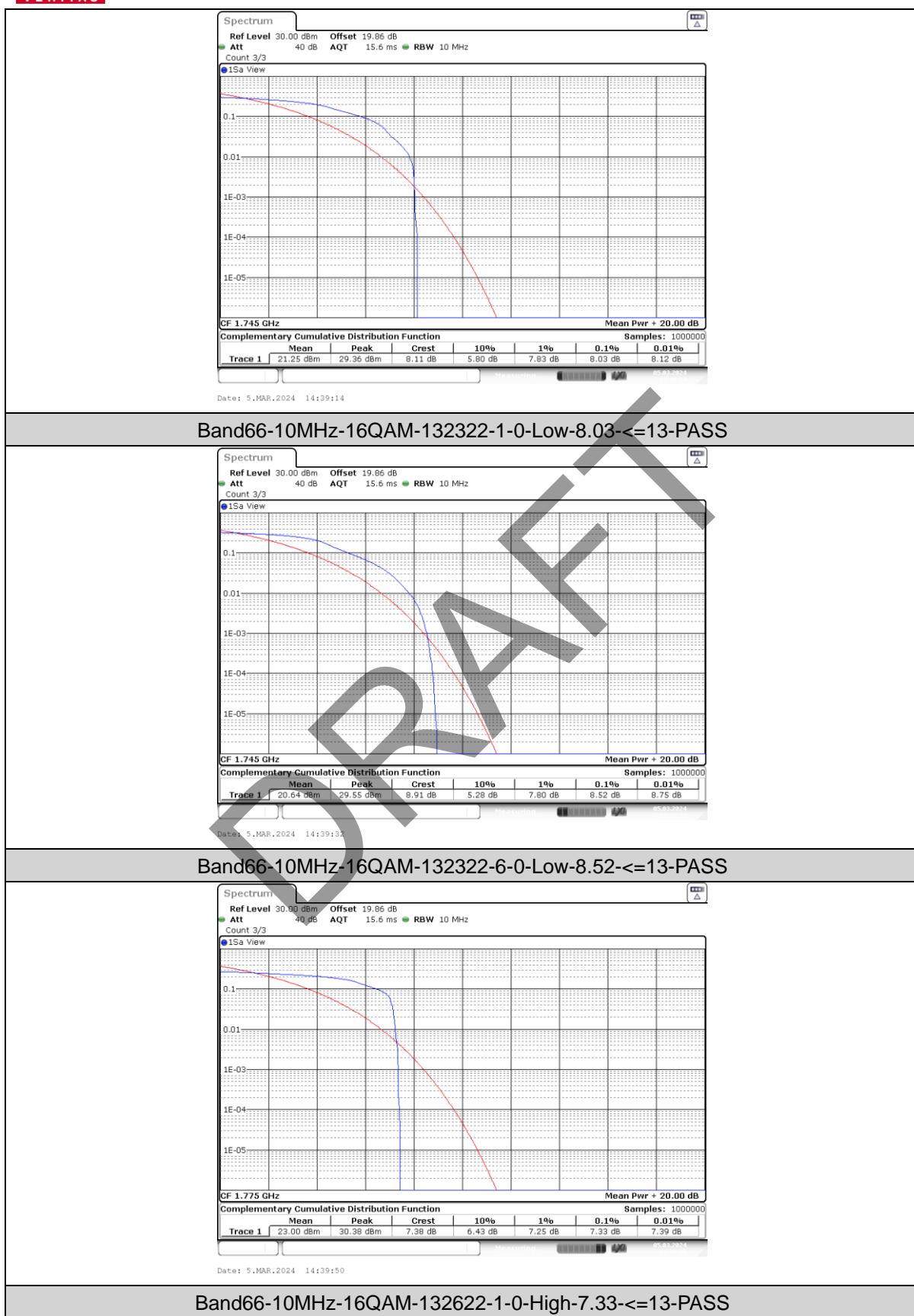
BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04

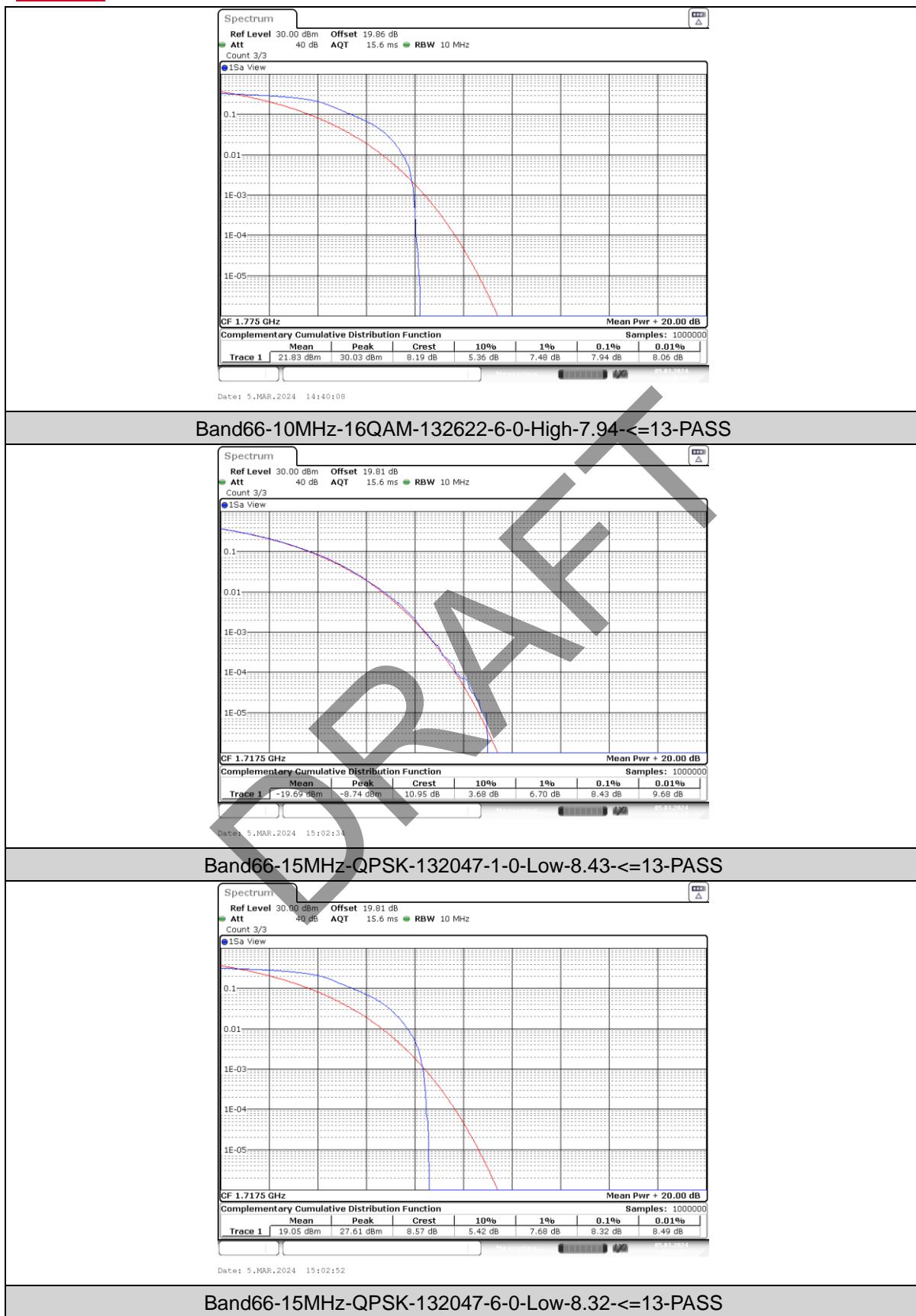
BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04

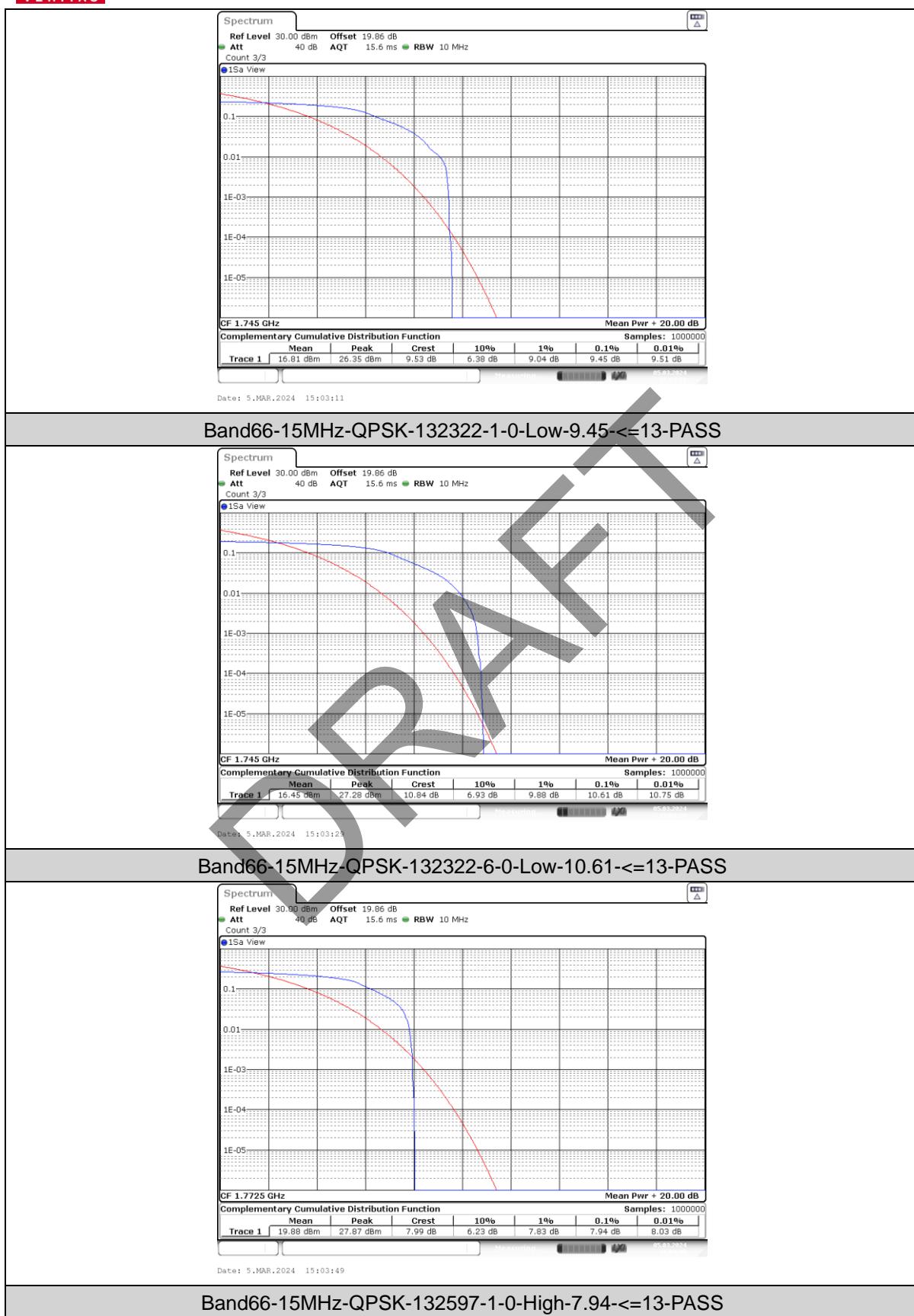
BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04

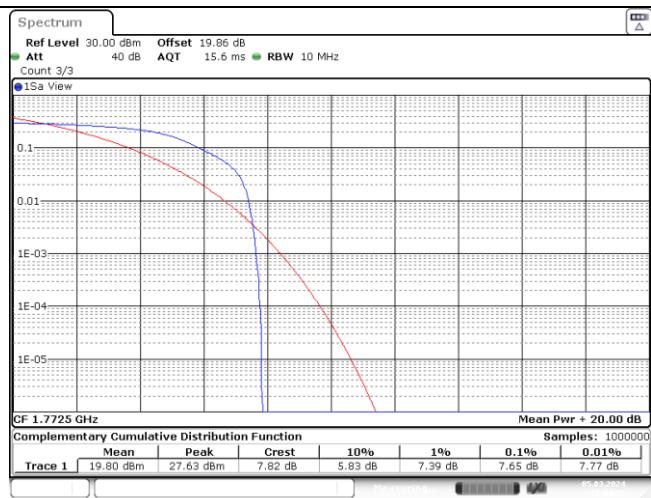
BUREAU  
VERITAS



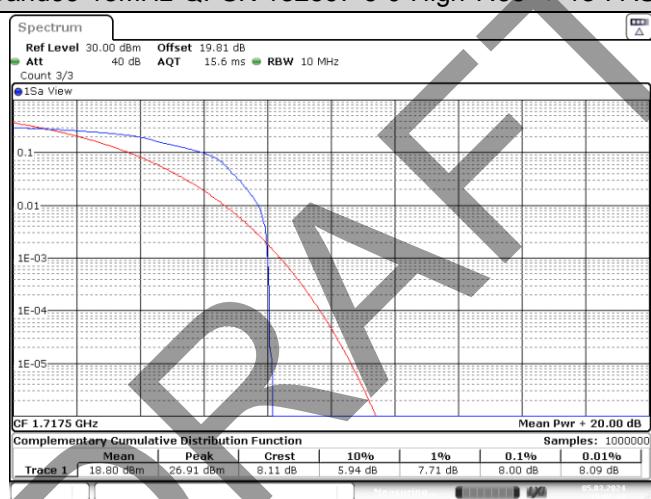


## Test Report No.: W7L-P23120015RI04

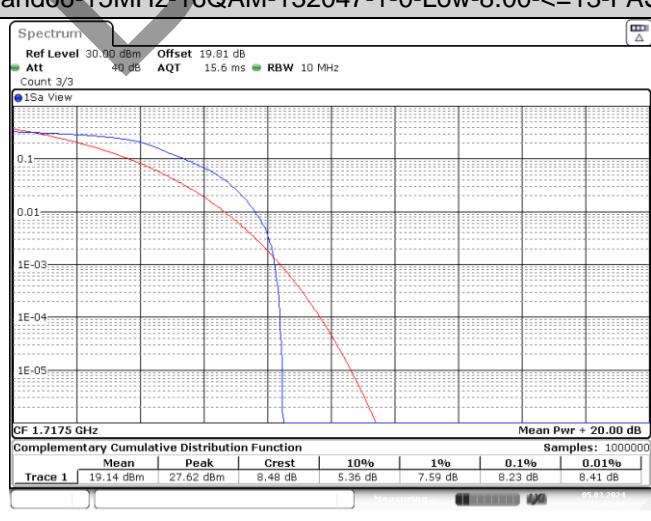
BUREAU  
VERITAS



### Band66-15MHz-QPSK-132597-6-0-High-7.65-<=13-PASS



### Band66-15MHz-16QAM-132047-1-0-Low-8.00-<=13-PASS



### Band66-15MHz-16QAM-132047-6-0-Low-8.23-<=13-PASS

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

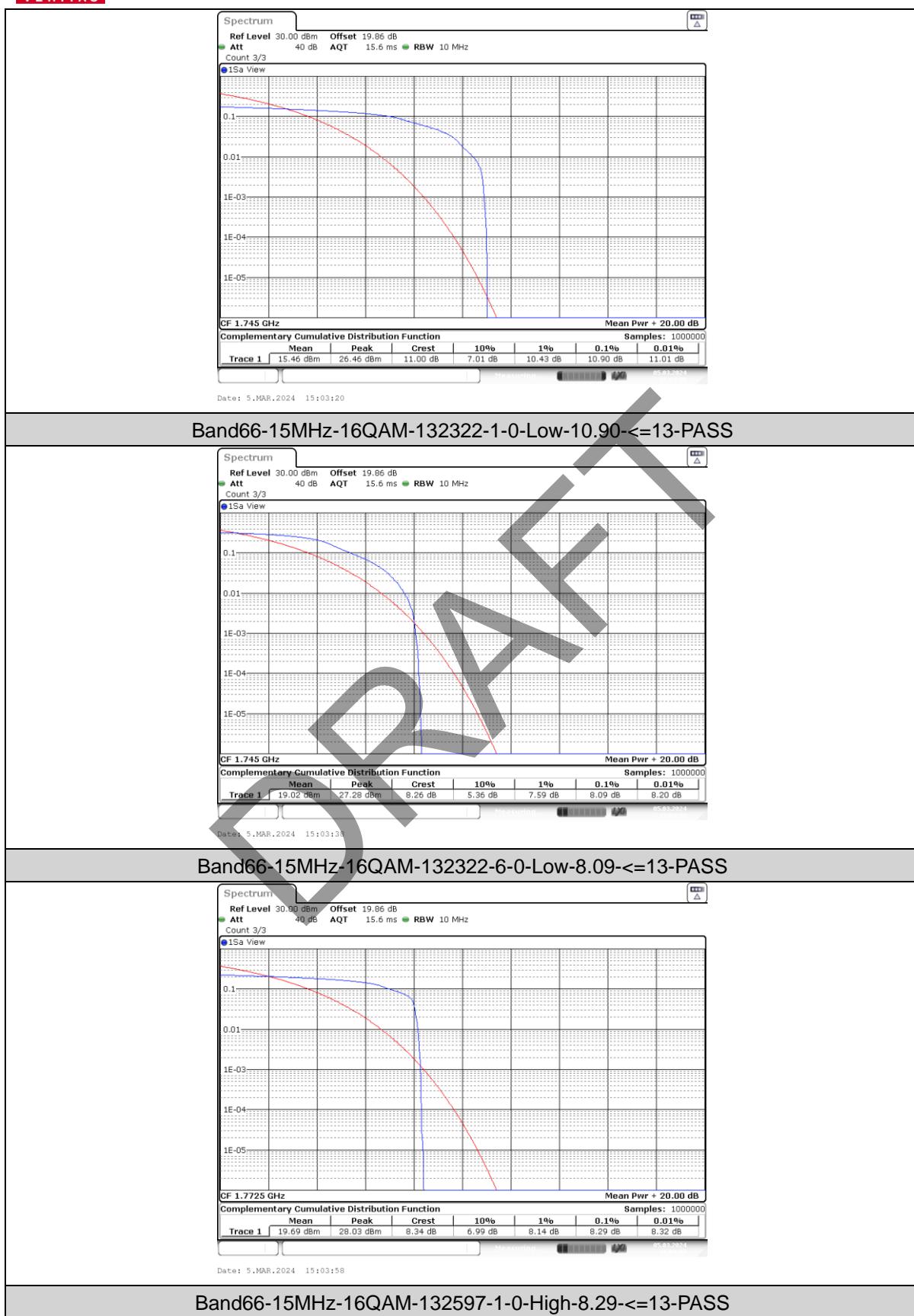
Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04

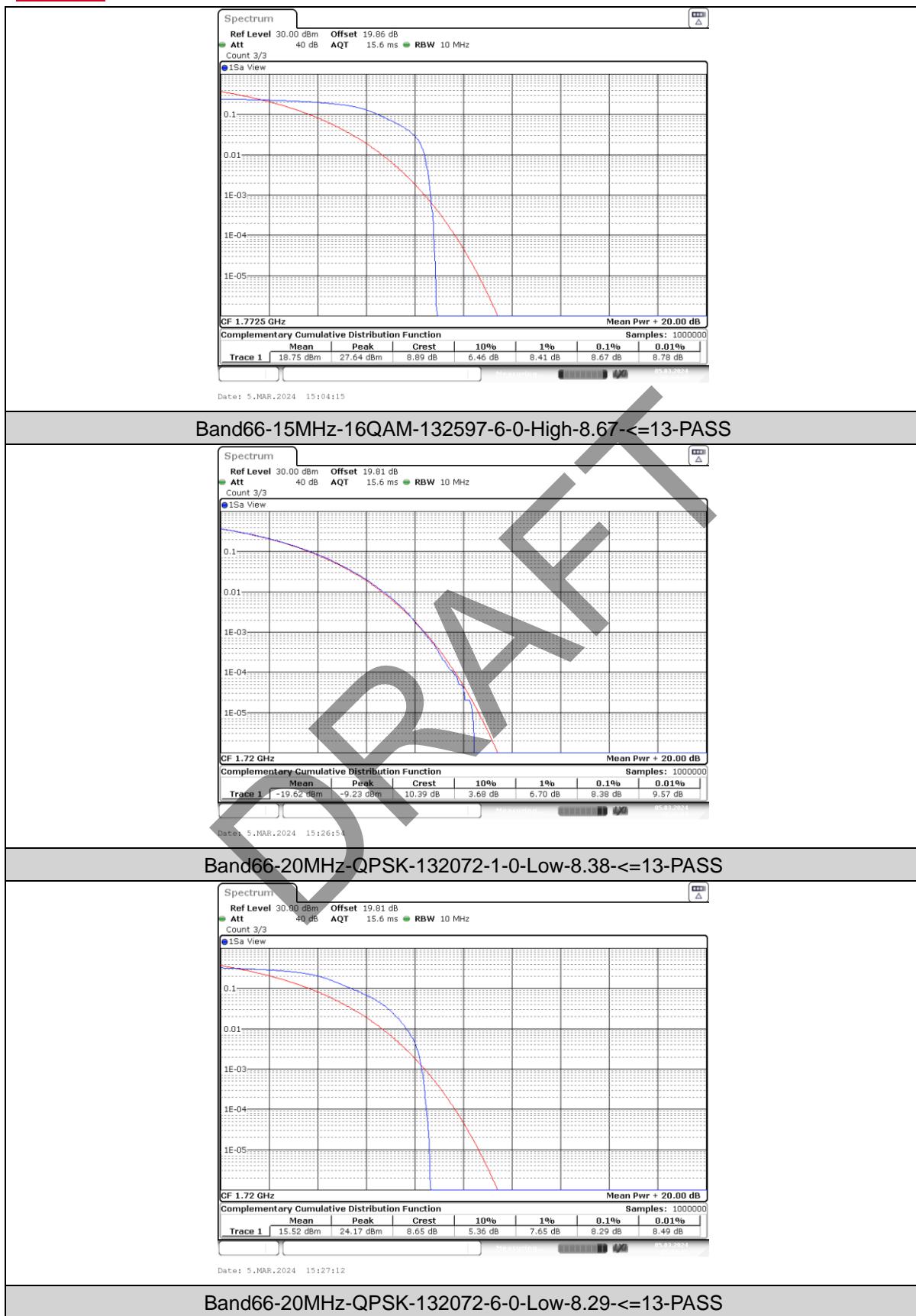
BUREAU  
VERITAS





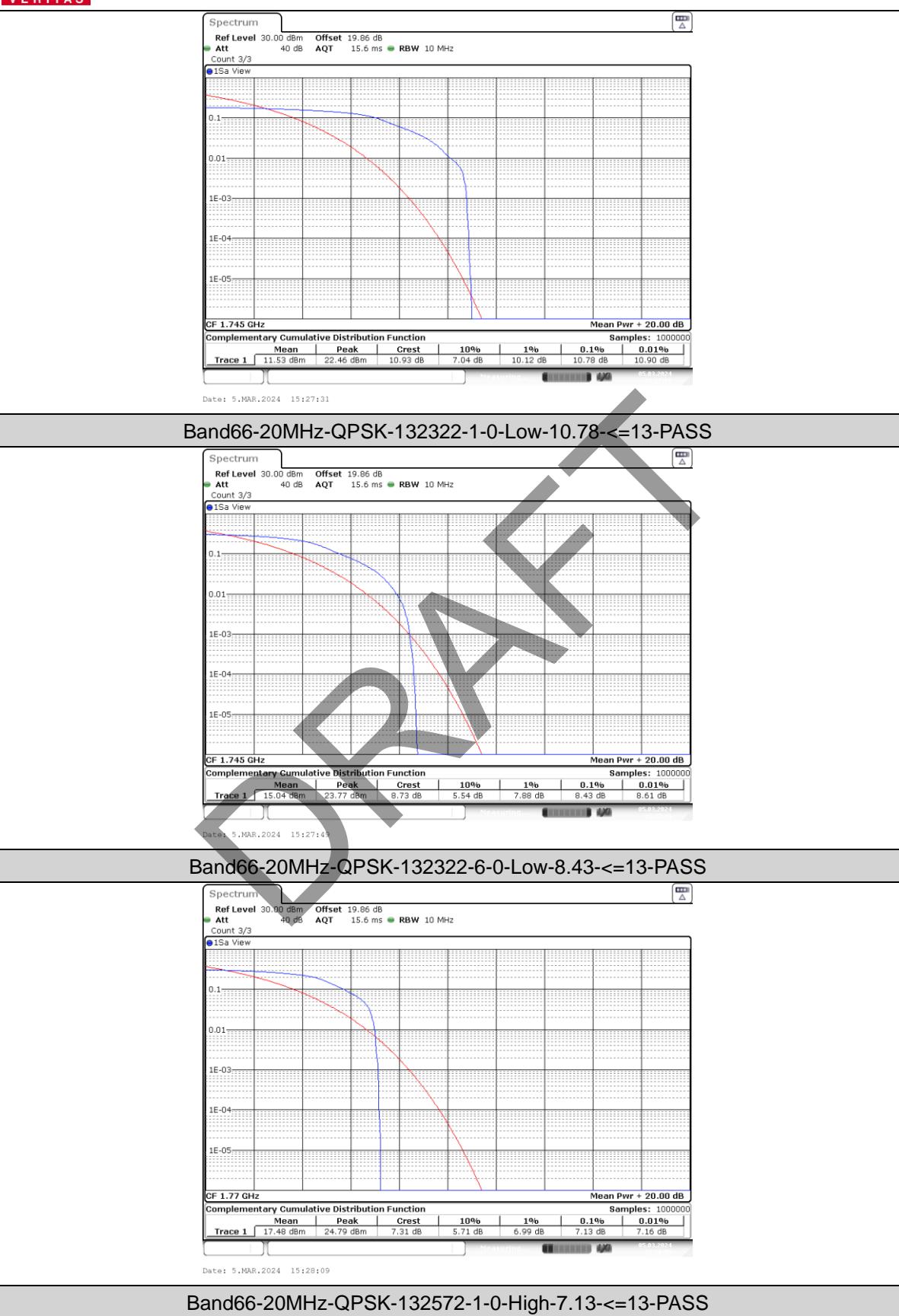
## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





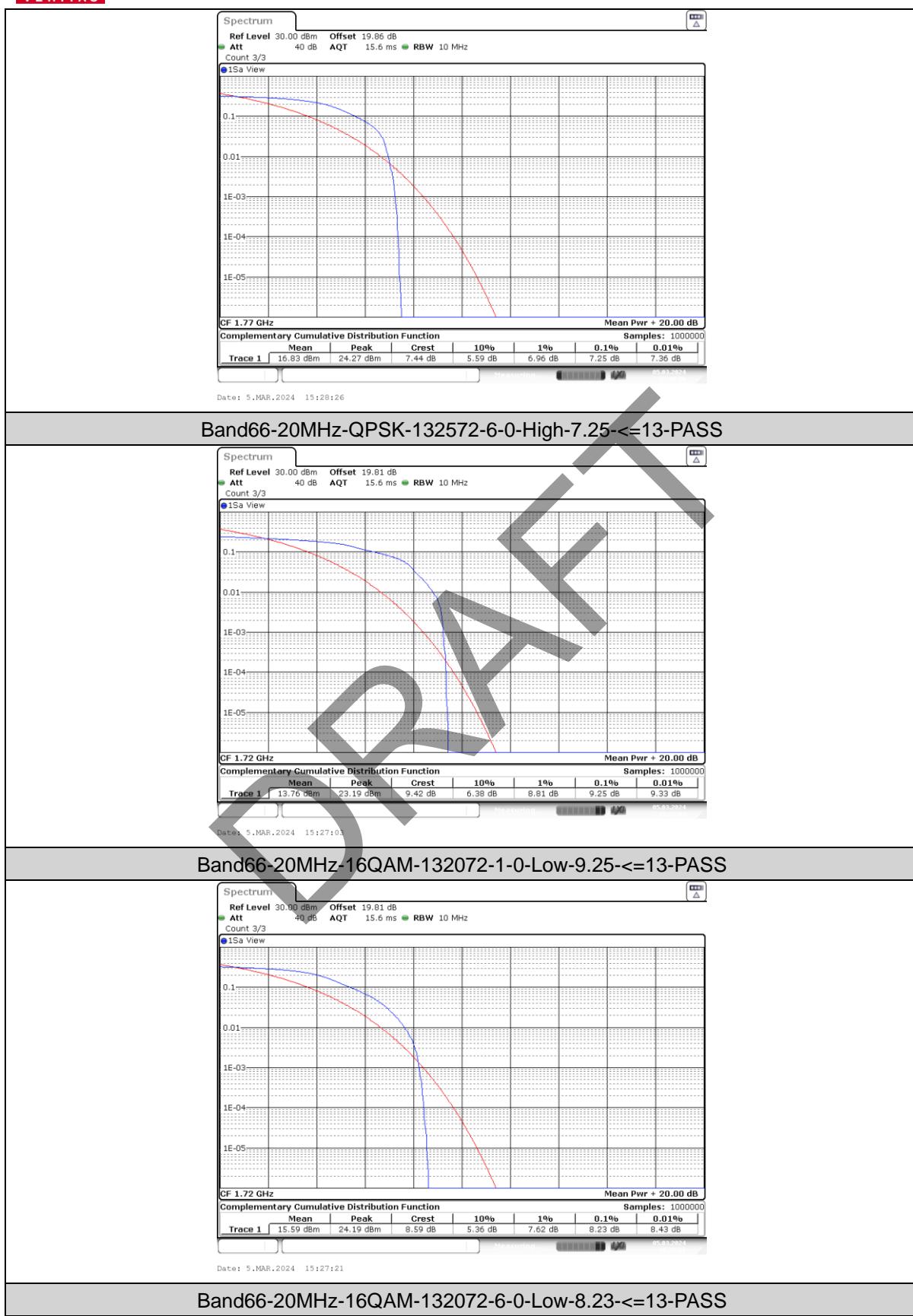
## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04

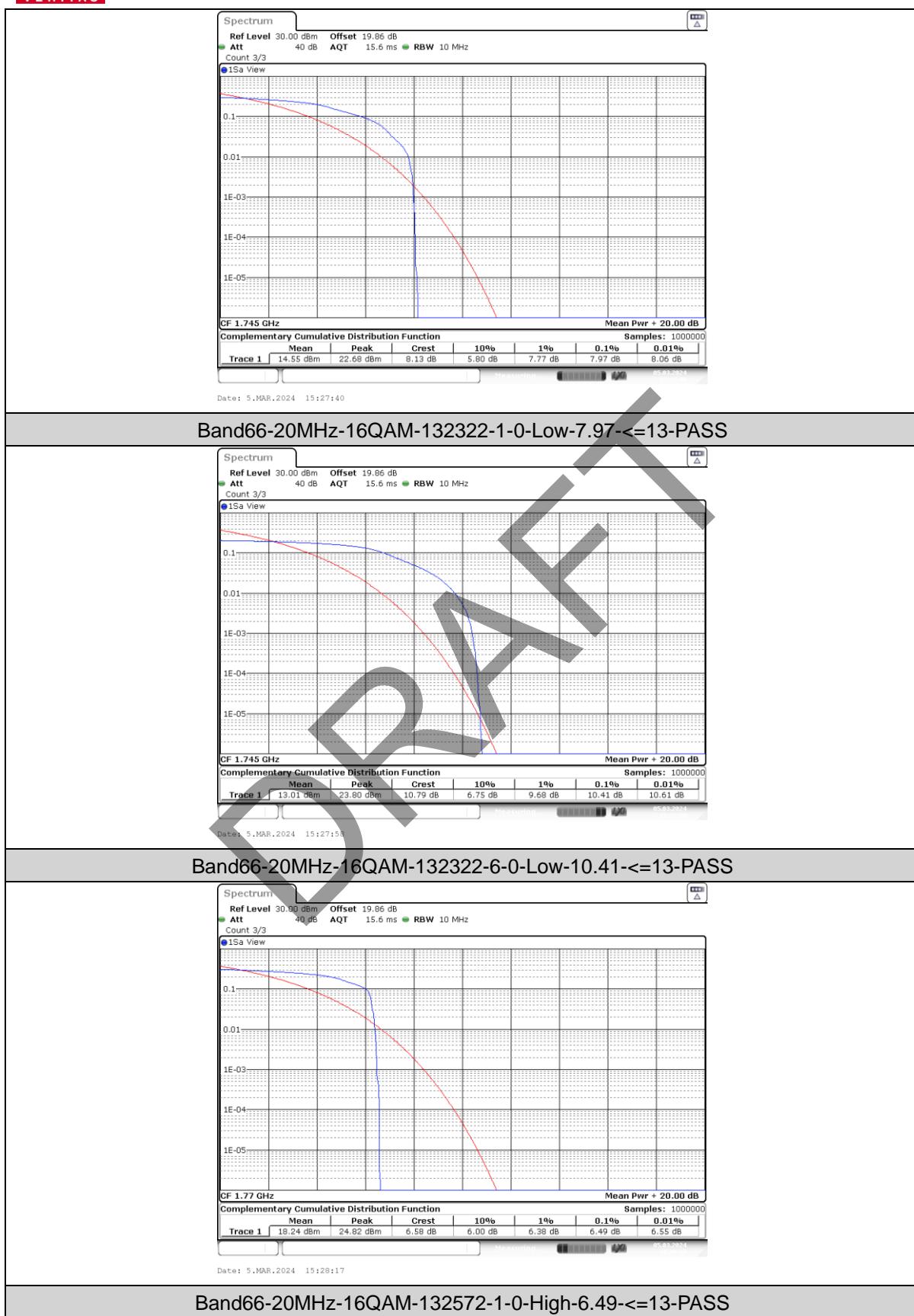
BUREAU  
VERITAS





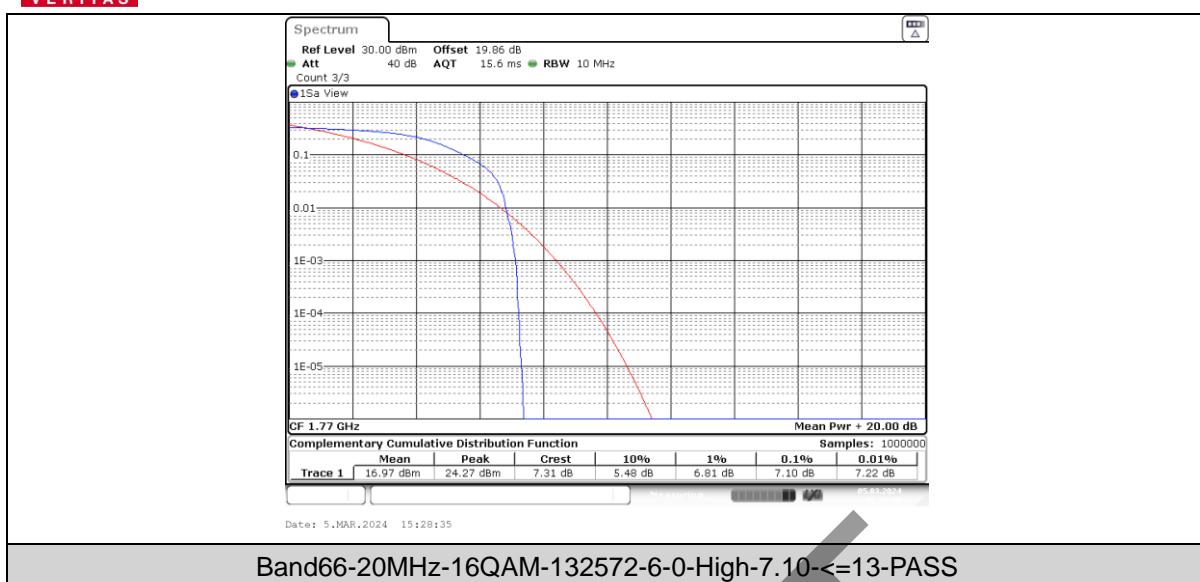
## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04



DRAFT



Test Report No.: W7L-P23120015RI04

## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR M1

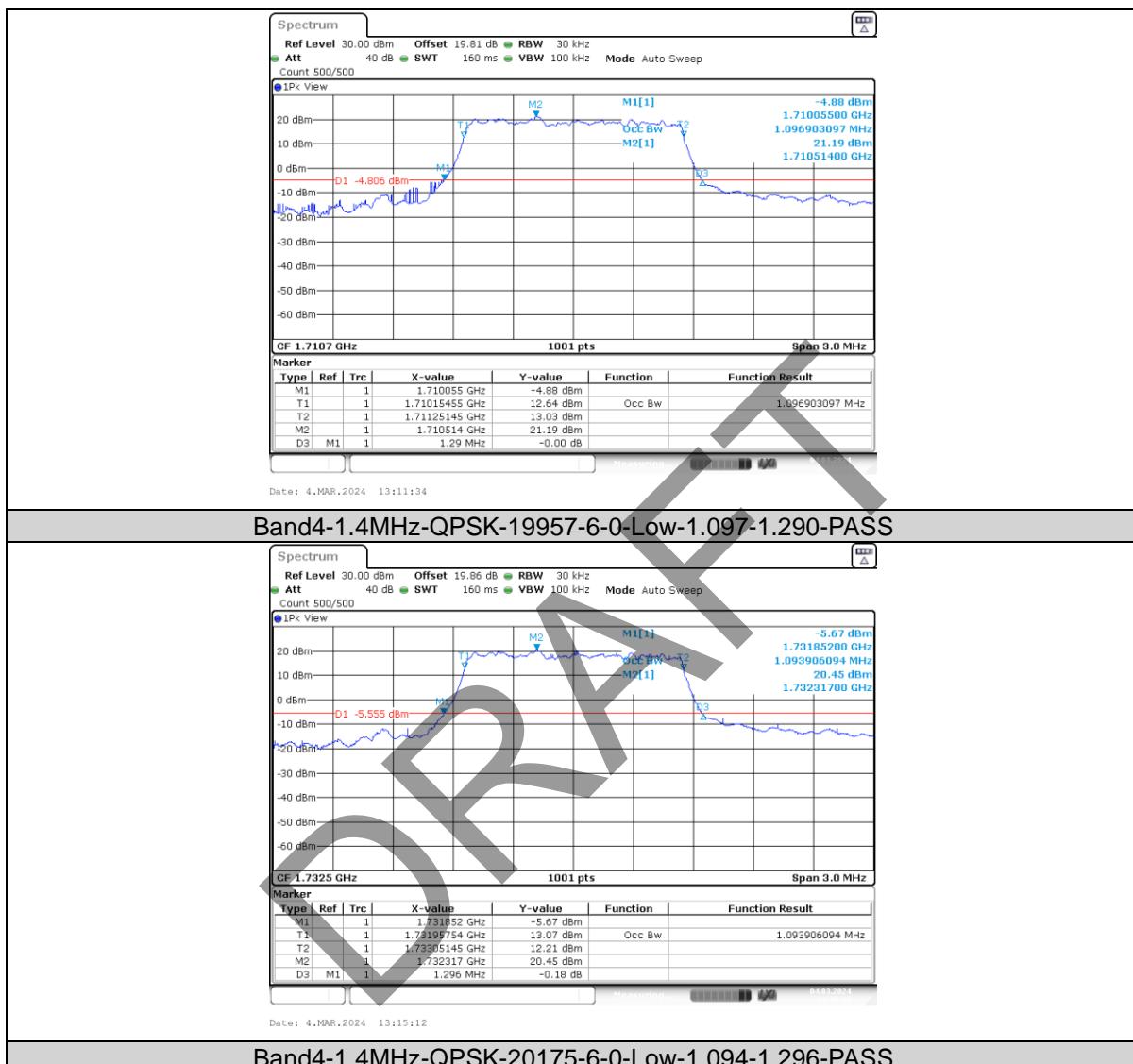
### Band 4 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	19957	QPSK	6	0	Low	1.097	1.290	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	1.094	1.296	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	1.094	1.284	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	1.097	1.296	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	1.097	1.293	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	1.094	1.281	PASS
Band4	3MHz	19965	QPSK	6	0	Low	1.127	1.362	PASS
Band4	3MHz	20175	QPSK	6	0	Low	1.133	1.404	PASS
Band4	3MHz	20385	QPSK	6	0	High	1.121	1.350	PASS
Band4	3MHz	19965	16QAM	6	0	Low	1.127	1.356	PASS
Band4	3MHz	20175	16QAM	6	0	Low	1.133	1.404	PASS
Band4	3MHz	20385	16QAM	6	0	High	1.115	1.362	PASS
Band4	5MHz	19975	QPSK	6	0	Low	1.219	1.640	PASS
Band4	5MHz	20175	QPSK	6	0	Low	1.229	1.630	PASS
Band4	5MHz	20375	QPSK	6	0	High	1.209	1.660	PASS
Band4	5MHz	19975	16QAM	6	0	Low	1.219	1.640	PASS
Band4	5MHz	20175	16QAM	6	0	Low	1.229	1.630	PASS
Band4	5MHz	20375	16QAM	6	0	High	1.209	1.650	PASS
Band4	10MHz	20000	QPSK	6	0	Low	1.439	2.300	PASS
Band4	10MHz	20175	QPSK	6	0	Low	1.978	3.540	PASS
Band4	10MHz	20350	QPSK	6	0	High	1.499	2.620	PASS
Band4	10MHz	20000	16QAM	6	0	Low	1.439	2.300	PASS
Band4	10MHz	20175	16QAM	6	0	Low	1.978	3.500	PASS
Band4	10MHz	20350	16QAM	6	0	High	1.479	2.580	PASS
Band4	15MHz	20025	QPSK	6	0	Low	2.188	3.660	PASS
Band4	15MHz	20175	QPSK	6	0	Low	2.787	4.380	PASS
Band4	15MHz	20325	QPSK	6	0	High	2.488	4.080	PASS
Band4	15MHz	20025	16QAM	6	0	Low	2.218	3.660	PASS
Band4	15MHz	20175	16QAM	6	0	Low	2.787	4.320	PASS
Band4	15MHz	20325	16QAM	6	0	High	2.488	4.080	PASS
Band4	20MHz	20050	QPSK	6	0	Low	3.357	5.000	PASS
Band4	20MHz	20175	QPSK	6	0	Low	4.316	5.760	PASS
Band4	20MHz	20300	QPSK	6	0	High	3.996	5.680	PASS
Band4	20MHz	20050	16QAM	6	0	Low	3.397	5.040	PASS
Band4	20MHz	20175	16QAM	6	0	Low	4.316	5.760	PASS
Band4	20MHz	20300	16QAM	6	0	High	3.996	5.720	PASS



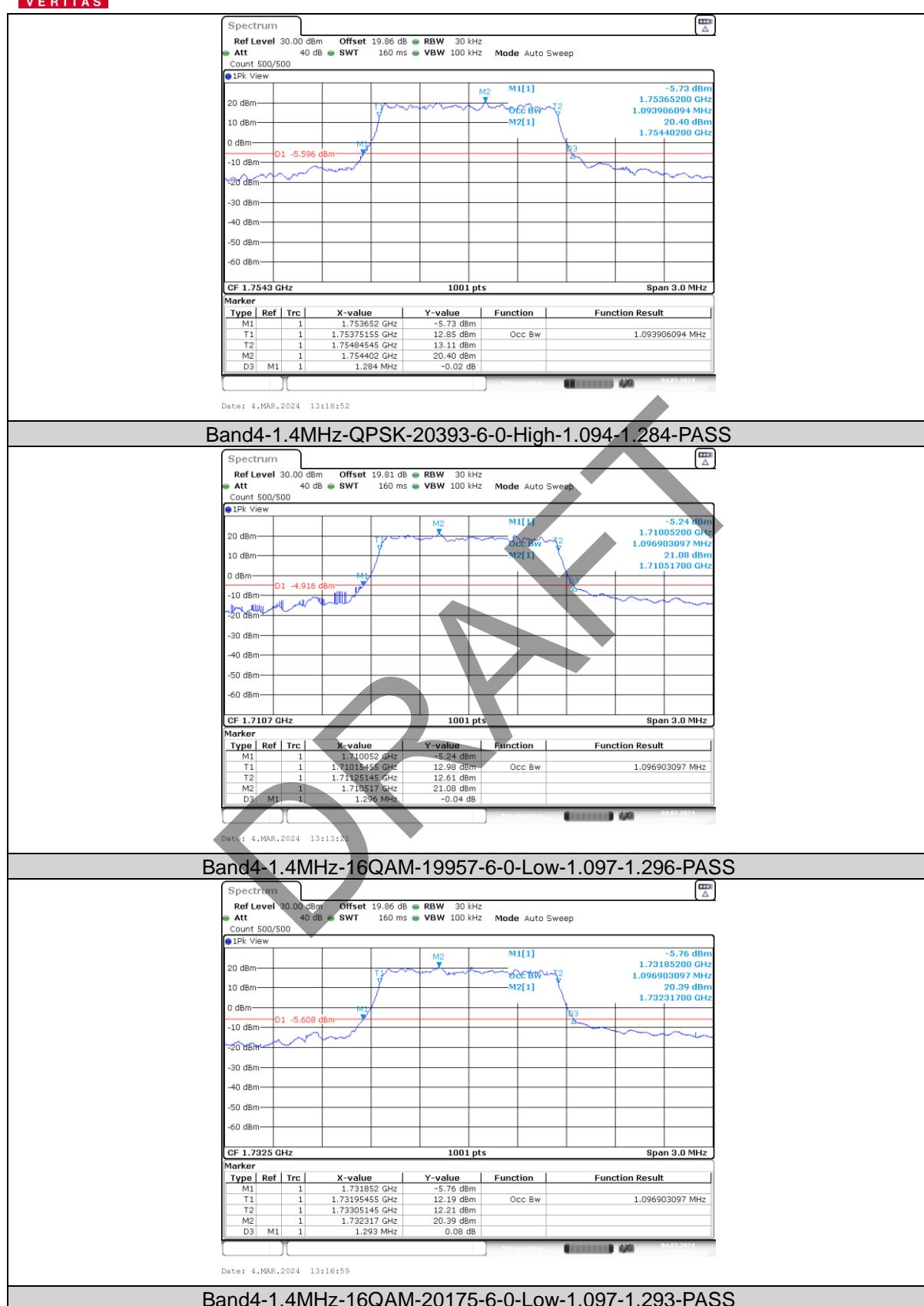
Test Report No.: W7L-P23120015RI04

## Band 4 Test Graphs



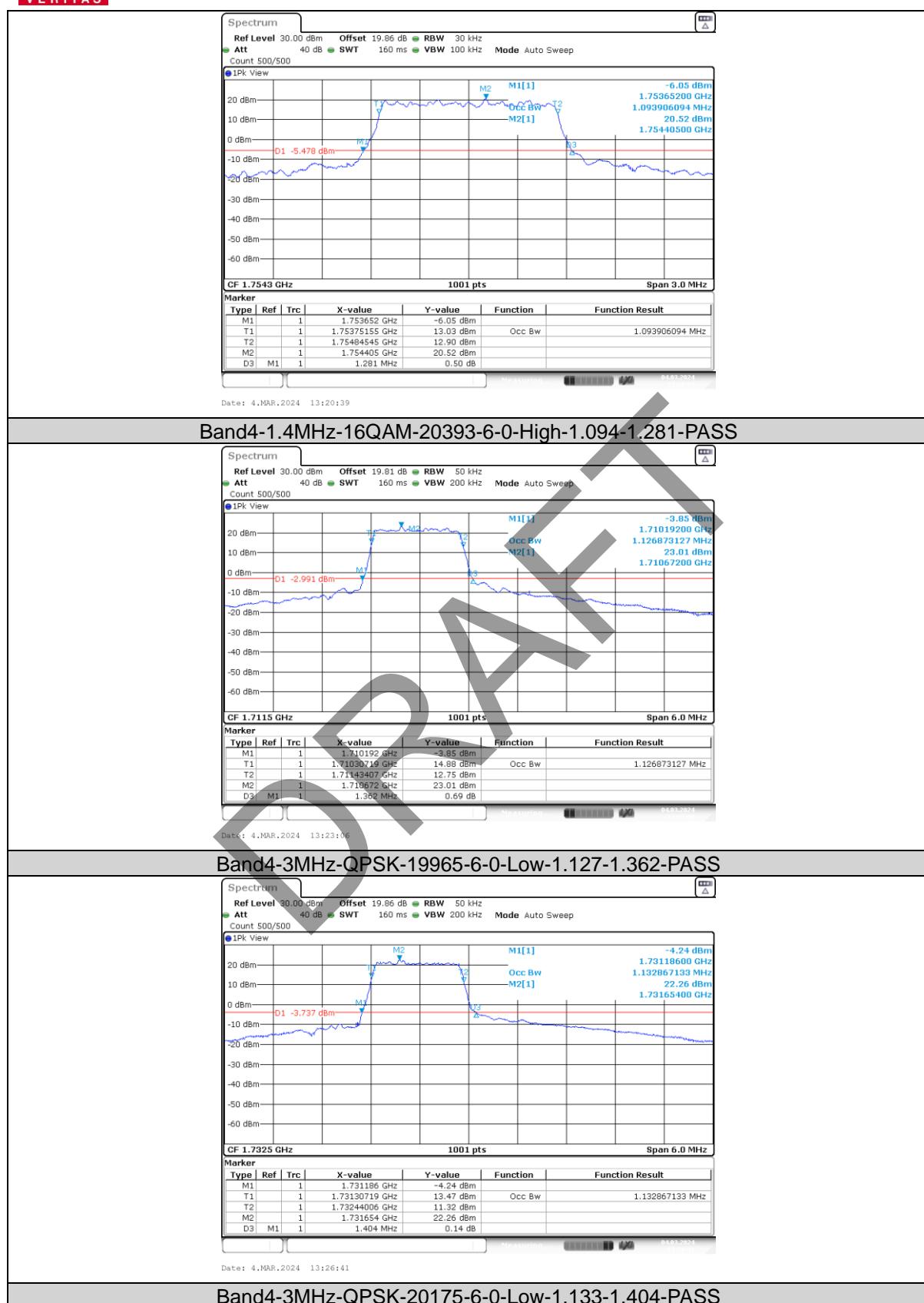


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



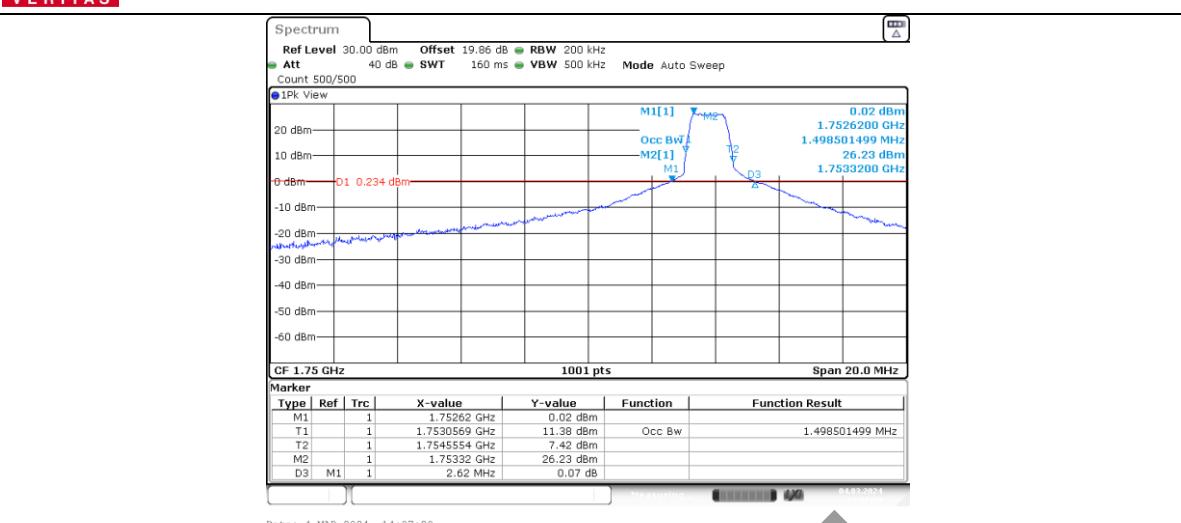


## Test Report No.: W7L-P23120015RI04

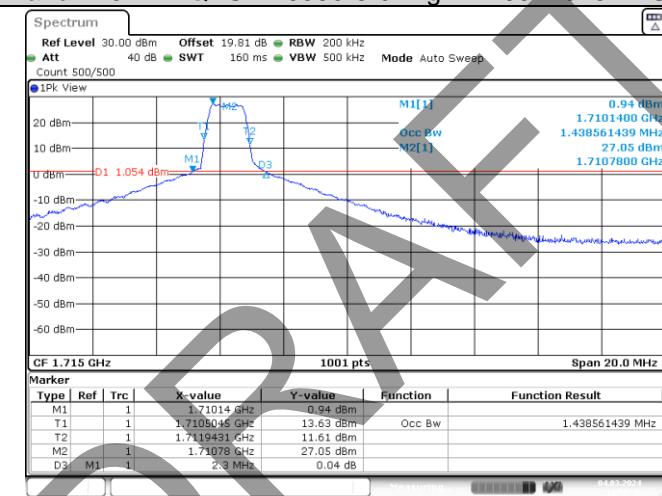




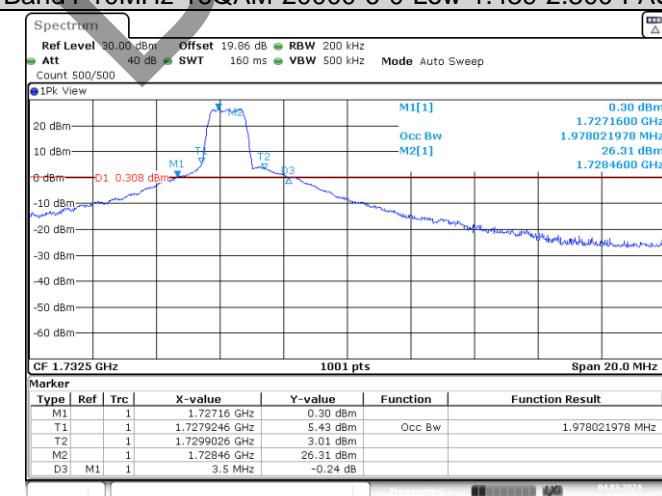
## Test Report No.: W7L-P23120015RI04



## Band4-10MHz-QPSK-20350-6-0-High-1.499-2.620-PASS



## Band4-10MHz-16QAM-20000-6-0-Low-1.439-2.300-PASS



## Band4-10MHz-16QAM-20175-6-0-Low-1.978-3.500-PASS

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



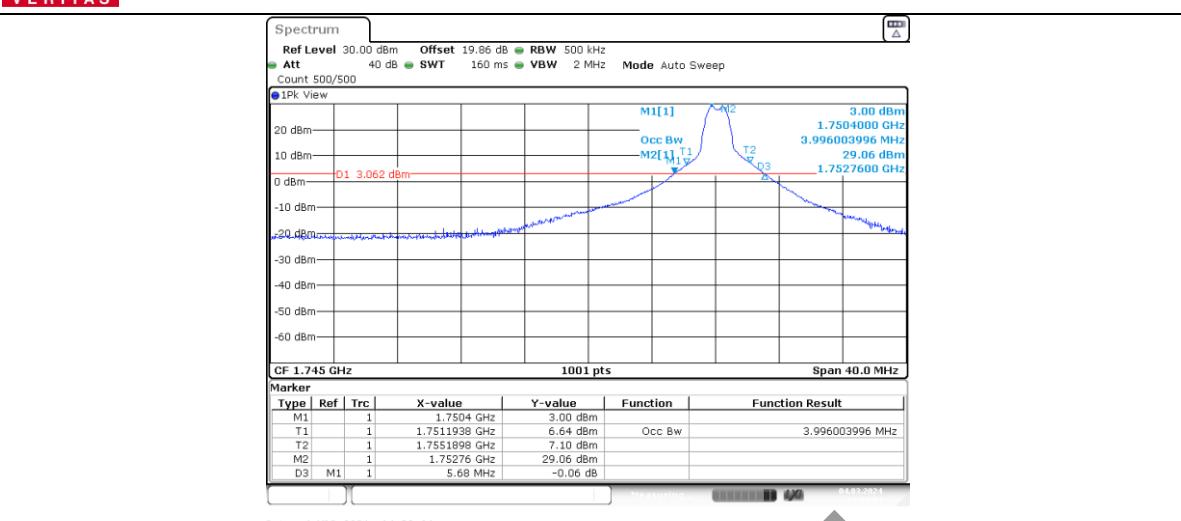


## Test Report No.: W7L-P23120015RI04

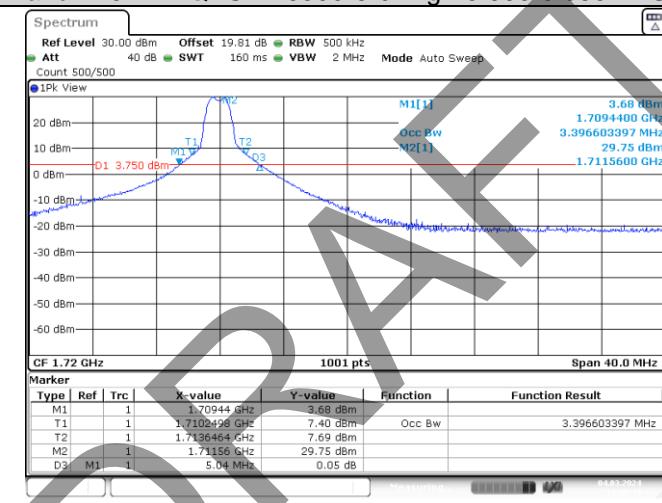




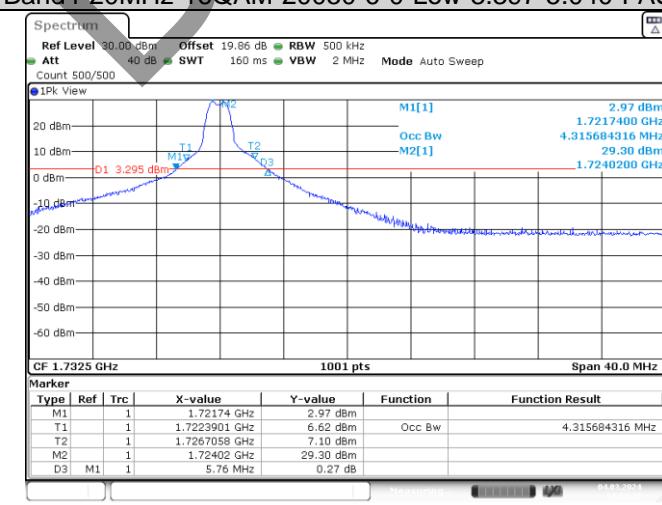
## Test Report No.: W7L-P23120015RI04



## Band4-20MHz-QPSK-20300-6-0-High-3.996-5.680-PASS



## Band4-20MHz-16QAM-20050-6-0-Low-3.397-5.040-PASS



## Band4-20MHz-16QAM-20175-6-0-Low-4.316-5.760-PASS

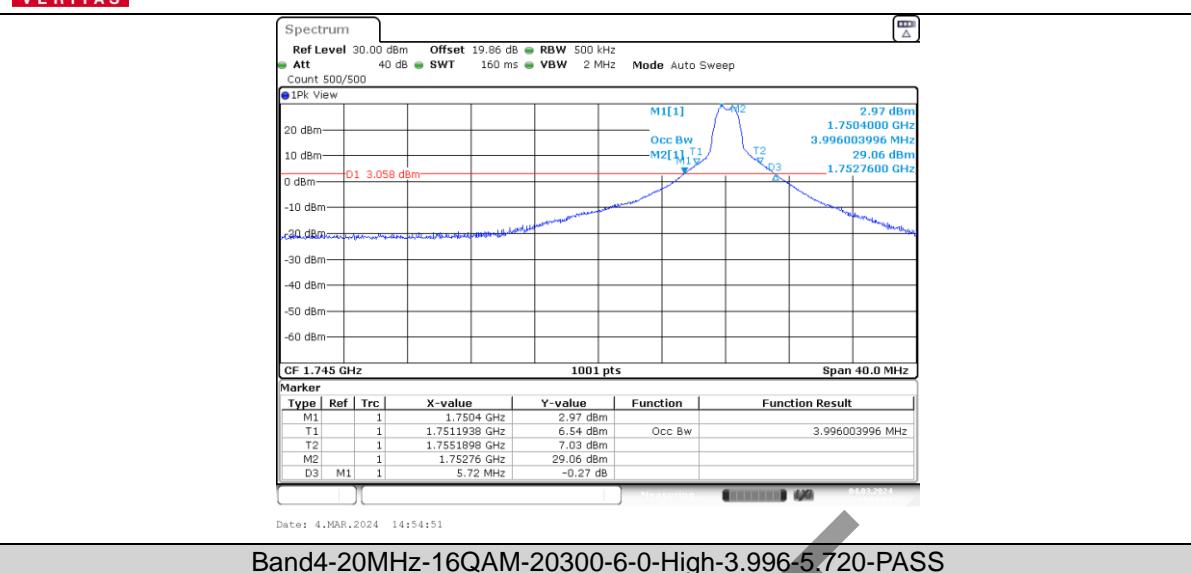
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



Test Report No.: W7L-P23120015RI04



DRAFT



Test Report No.: W7L-P23120015RI04

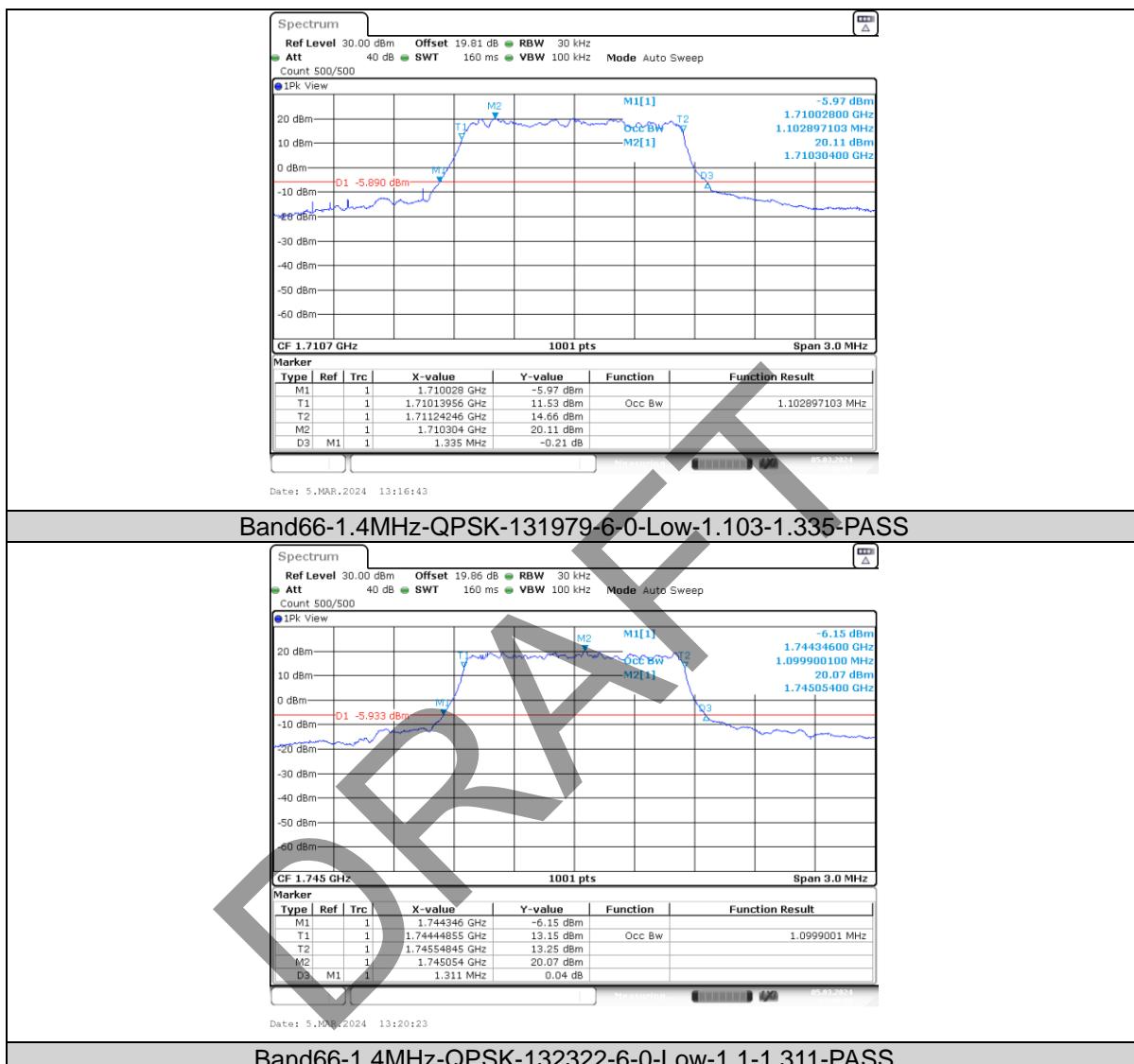
## Band 66 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	131979	QPSK	6	0	Low	1.103	1.335	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	1.1	1.311	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	1.103	1.308	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	1.103	1.332	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	1.1	1.311	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	1.091	1.296	PASS
Band66	3MHz	131987	QPSK	6	0	Low	1.139	1.368	PASS
Band66	3MHz	132322	QPSK	6	0	Low	1.133	1.422	PASS
Band66	3MHz	132657	QPSK	6	0	High	1.127	1.356	PASS
Band66	3MHz	131987	16QAM	6	0	Low	1.133	1.368	PASS
Band66	3MHz	132322	16QAM	6	0	Low	1.133	1.416	PASS
Band66	3MHz	132657	16QAM	6	0	High	1.127	1.368	PASS
Band66	5MHz	131997	QPSK	6	0	Low	1.219	1.500	PASS
Band66	5MHz	132322	QPSK	6	0	Low	1.229	1.480	PASS
Band66	5MHz	132647	QPSK	6	0	High	1.209	1.610	PASS
Band66	5MHz	131997	16QAM	6	0	Low	1.219	1.500	PASS
Band66	5MHz	132322	16QAM	6	0	Low	1.229	1.490	PASS
Band66	5MHz	132647	16QAM	6	0	High	1.209	1.620	PASS
Band66	10MHz	132022	QPSK	6	0	Low	1.439	2.320	PASS
Band66	10MHz	132322	QPSK	6	0	Low	1.758	3.120	PASS
Band66	10MHz	132622	QPSK	6	0	High	1.479	2.580	PASS
Band66	10MHz	132022	16QAM	6	0	Low	1.439	2.300	PASS
Band66	10MHz	132322	16QAM	6	0	Low	1.778	3.100	PASS
Band66	10MHz	132622	16QAM	6	0	High	1.479	2.580	PASS
Band66	15MHz	132047	QPSK	6	0	Low	2.188	3.660	PASS
Band66	15MHz	132322	QPSK	6	0	Low	2.607	4.140	PASS
Band66	15MHz	132597	QPSK	6	0	High	2.308	3.930	PASS
Band66	15MHz	132047	16QAM	6	0	Low	2.188	3.720	PASS
Band66	15MHz	132322	16QAM	6	0	Low	2.607	4.170	PASS
Band66	15MHz	132597	16QAM	6	0	High	2.308	3.900	PASS
Band66	20MHz	132072	QPSK	6	0	Low	3.117	4.840	PASS
Band66	20MHz	132322	QPSK	6	0	Low	4.036	5.600	PASS
Band66	20MHz	132572	QPSK	6	0	High	3.836	5.720	PASS
Band66	20MHz	132072	16QAM	6	0	Low	3.117	4.800	PASS
Band66	20MHz	132322	16QAM	6	0	Low	4.036	5.600	PASS
Band66	20MHz	132572	16QAM	6	0	High	3.836	5.600	PASS



Test Report No.: W7L-P23120015RI04

## Band 66 Test Graphs





## Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

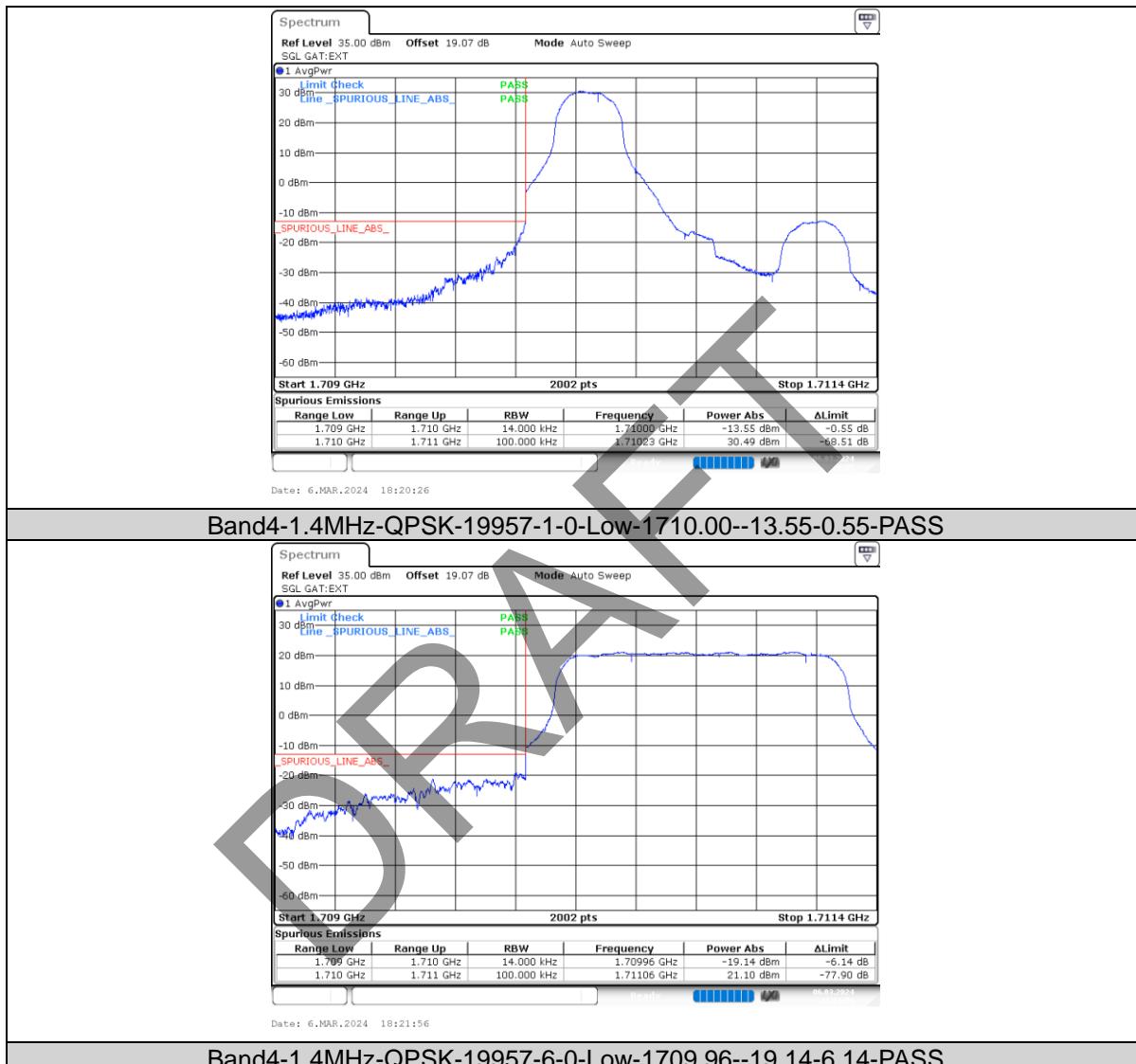




Test Report No.: W7L-P23120015RI04

## BAND EDGE FOR M1

### Band 4 Test Graphs





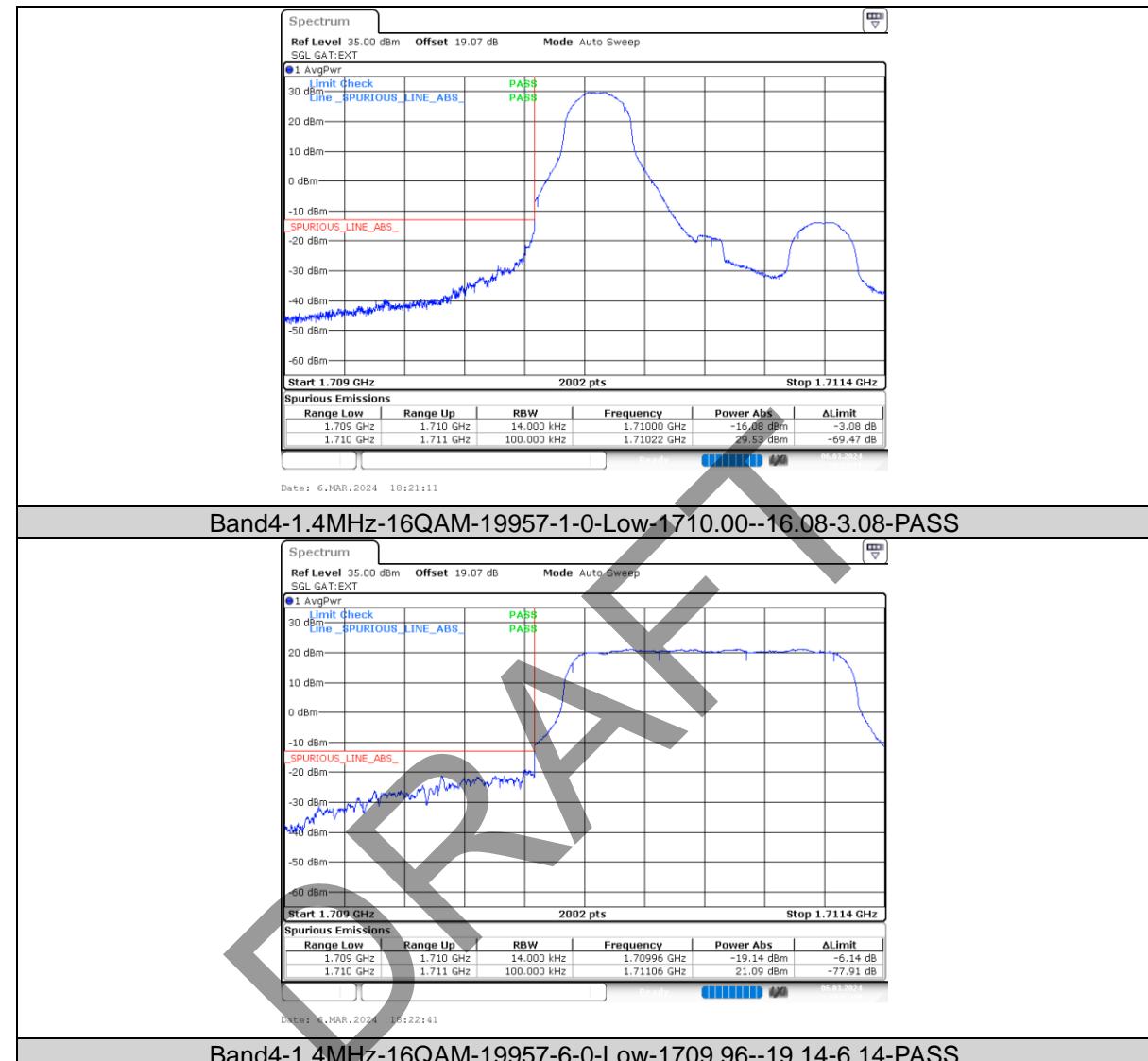
Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS





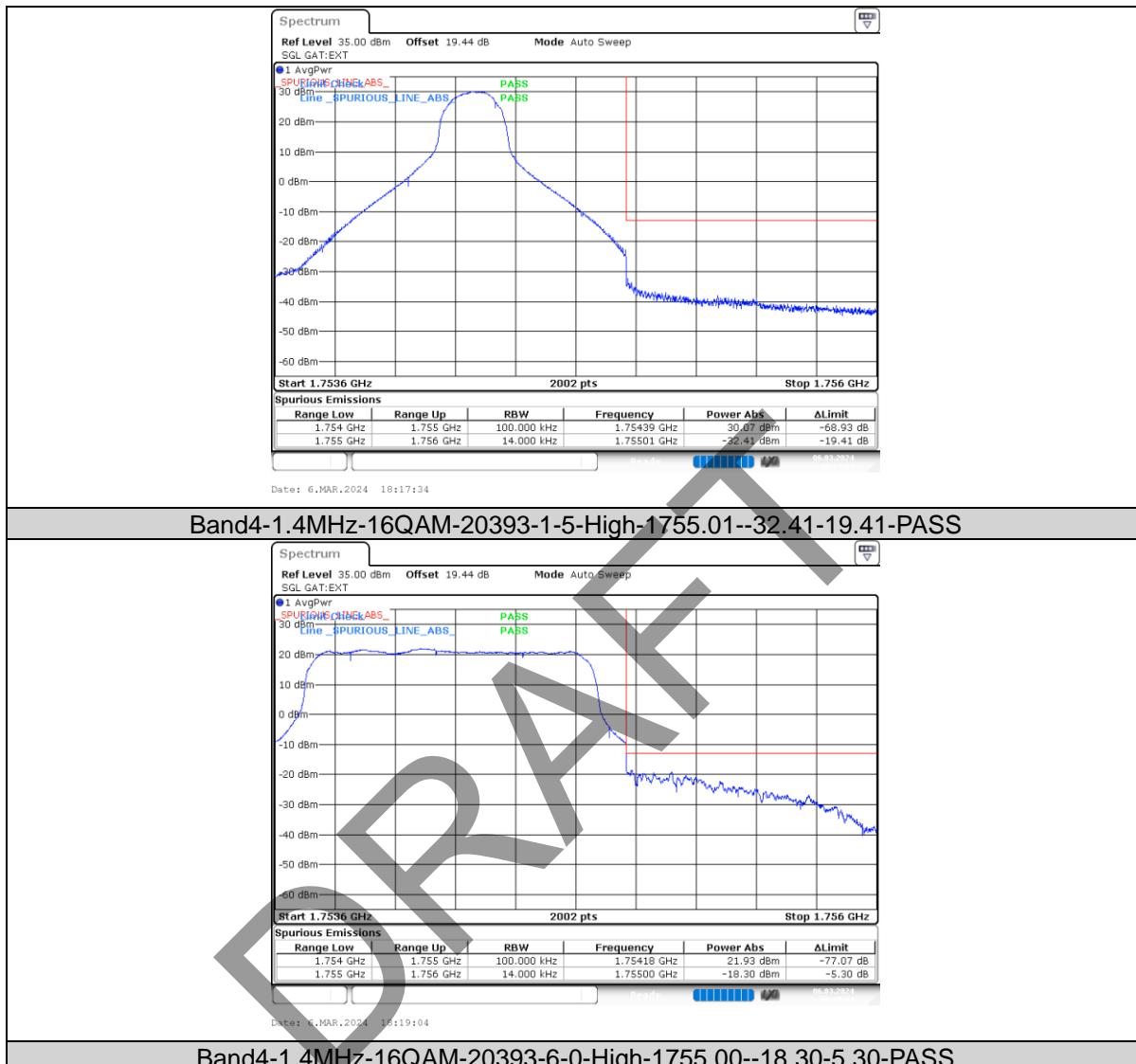
Test Report No.: W7L-P23120015RI04





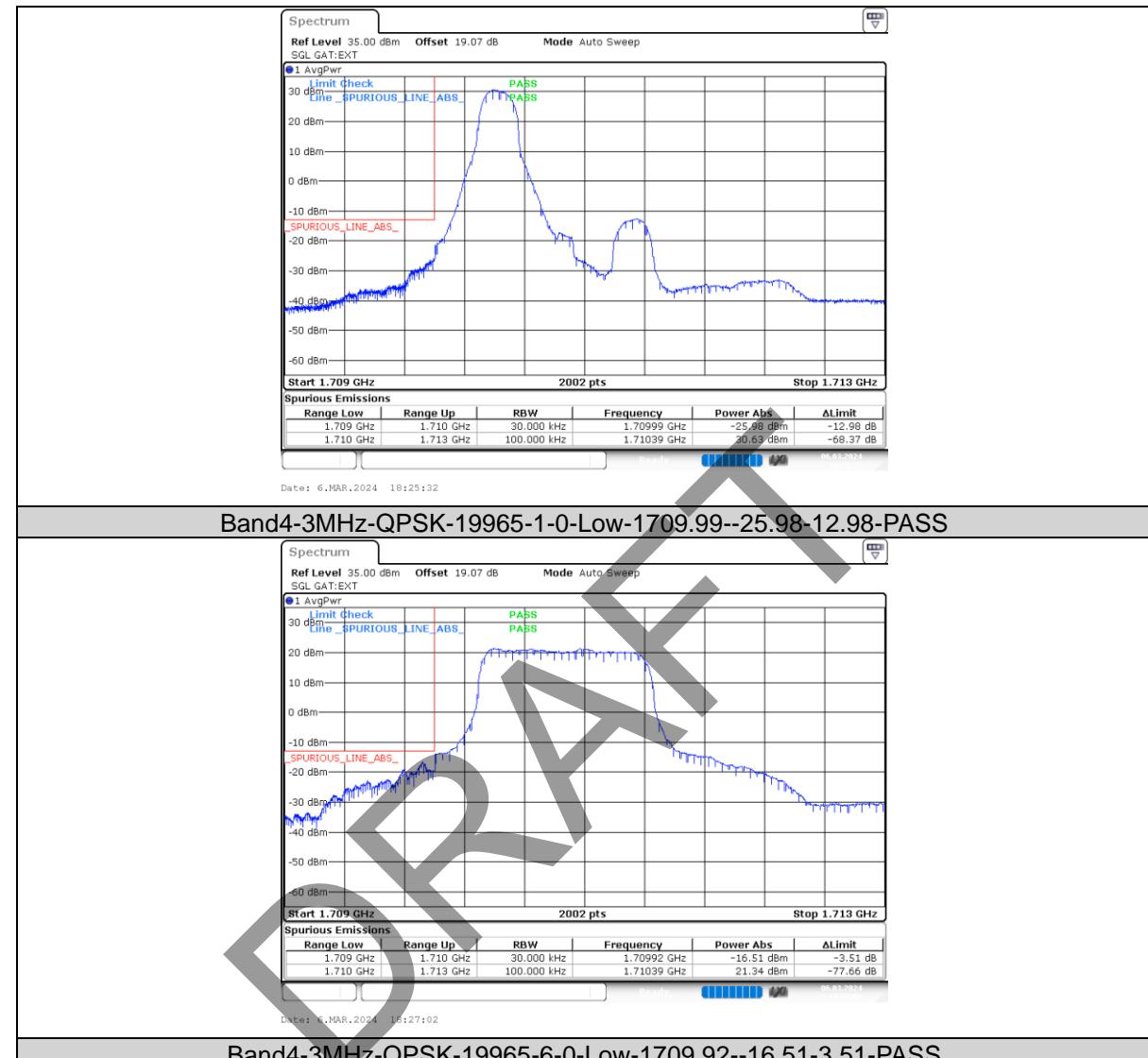
Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



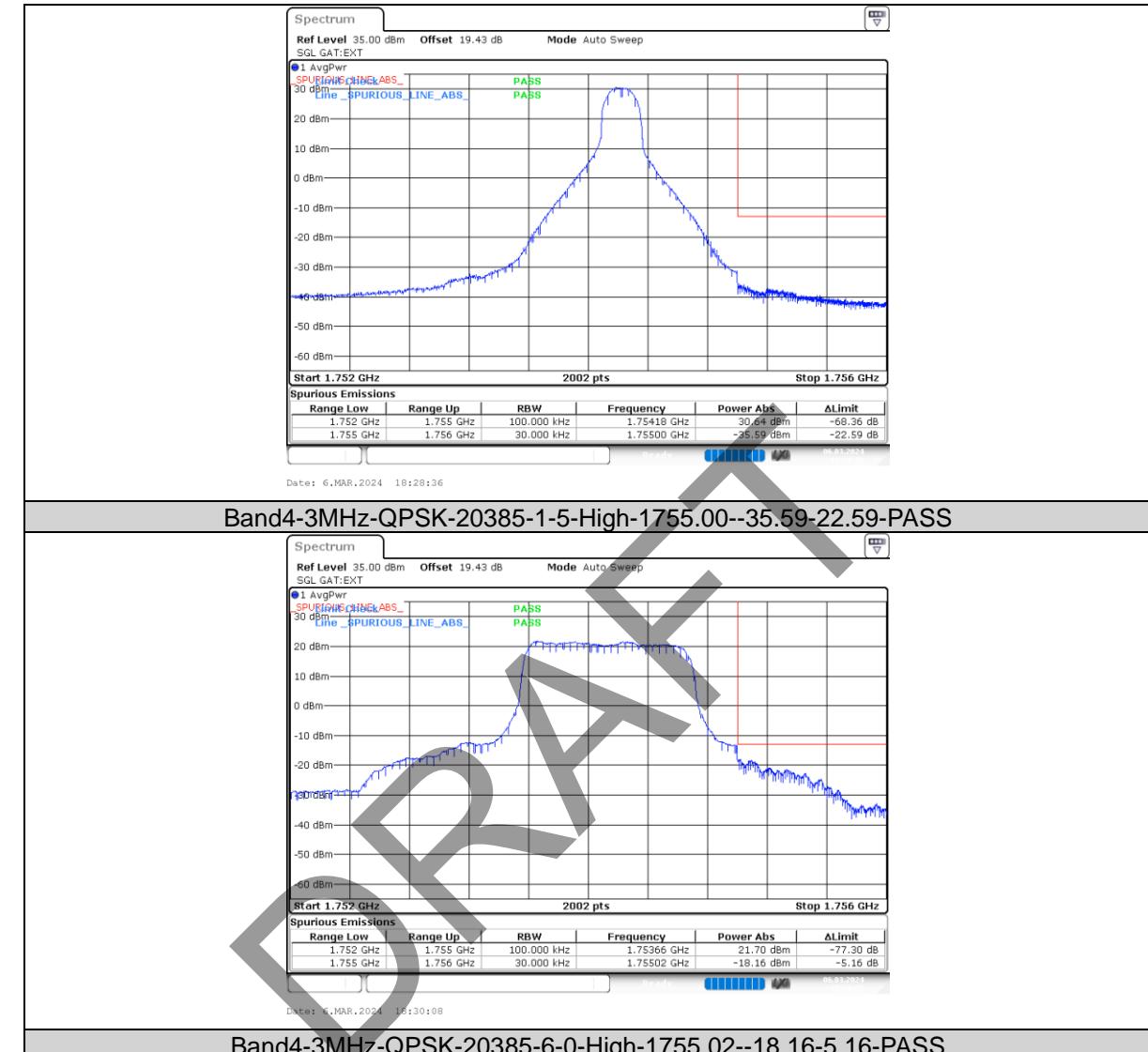


Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04



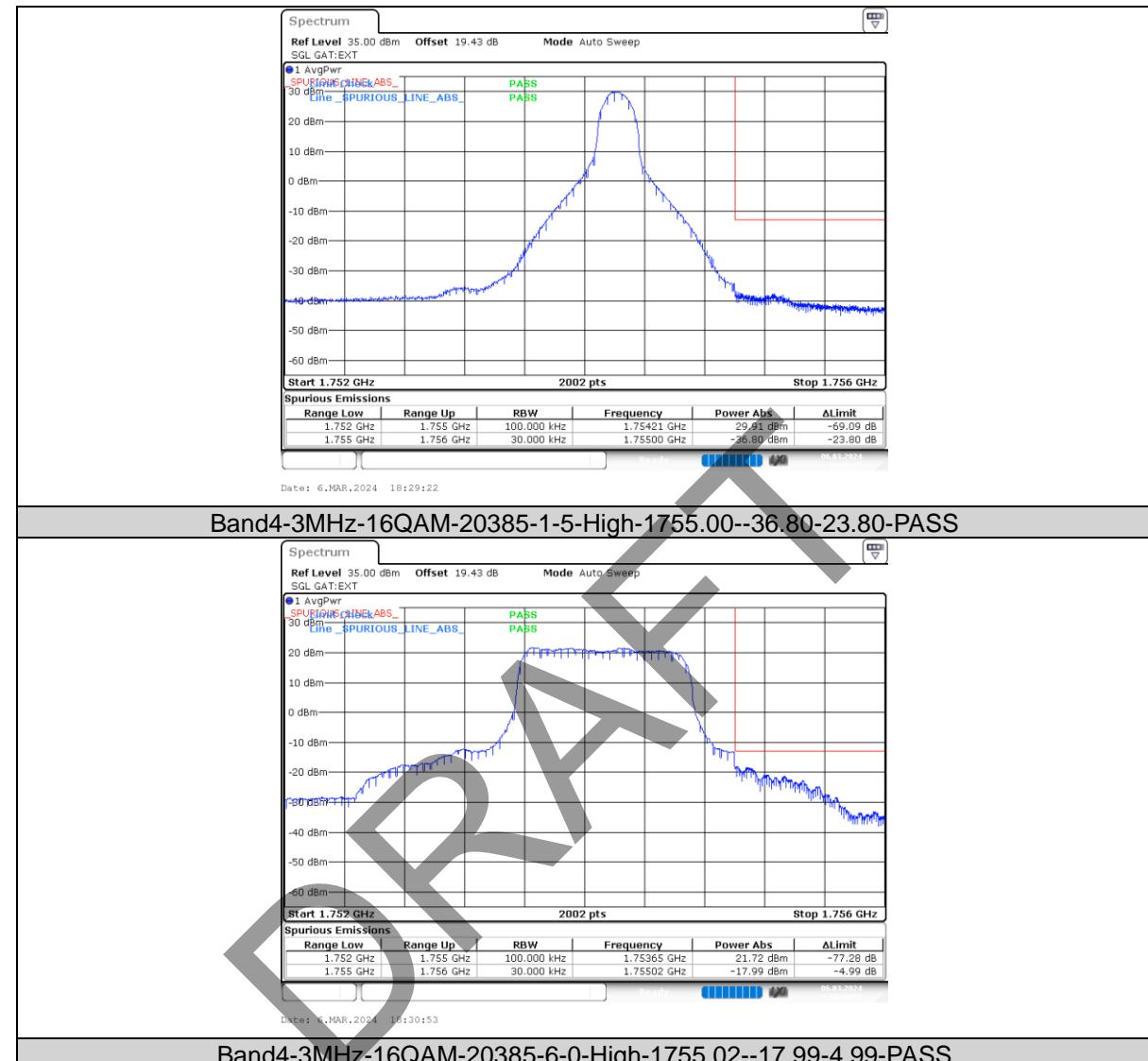


Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04



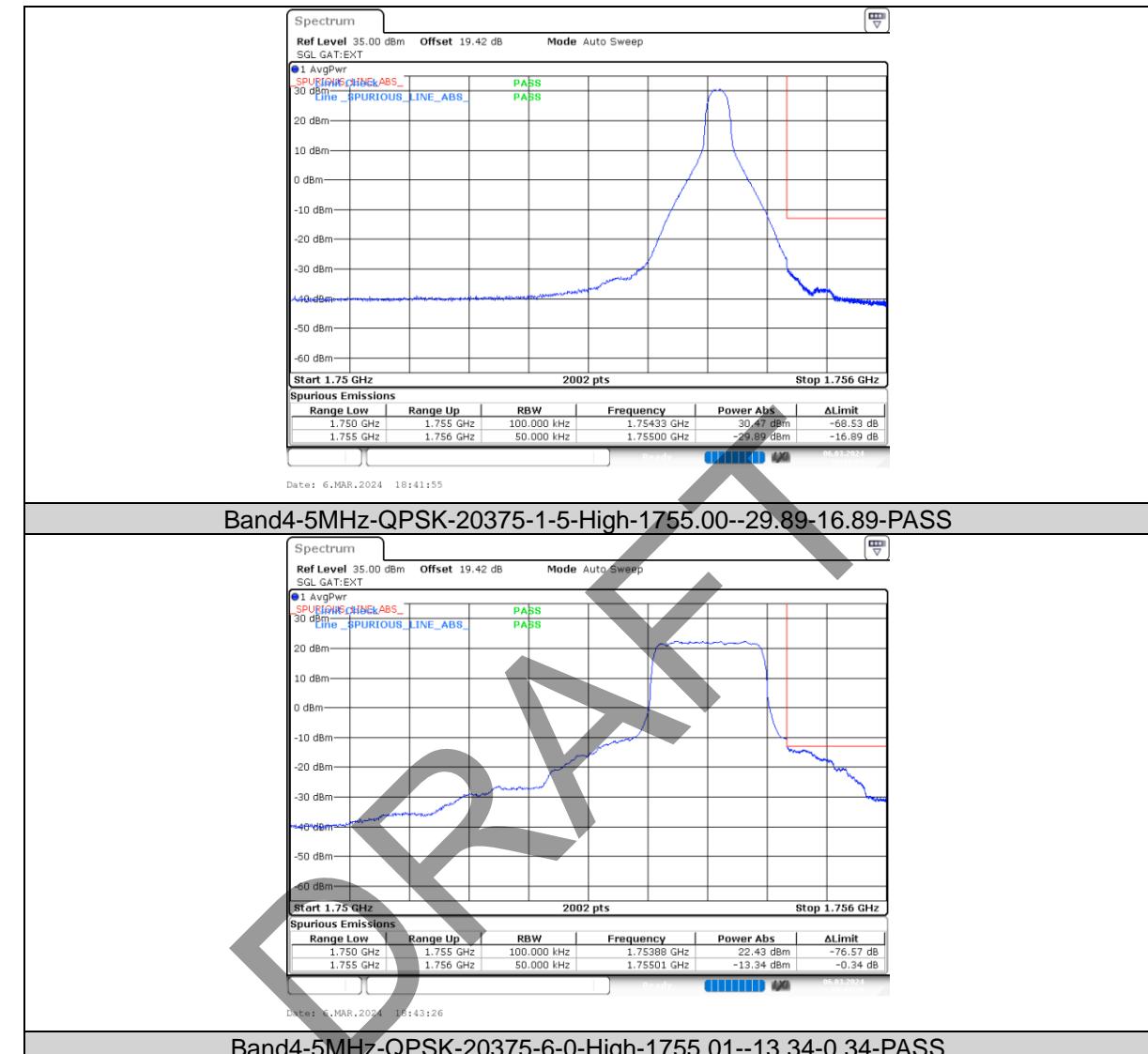


Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04



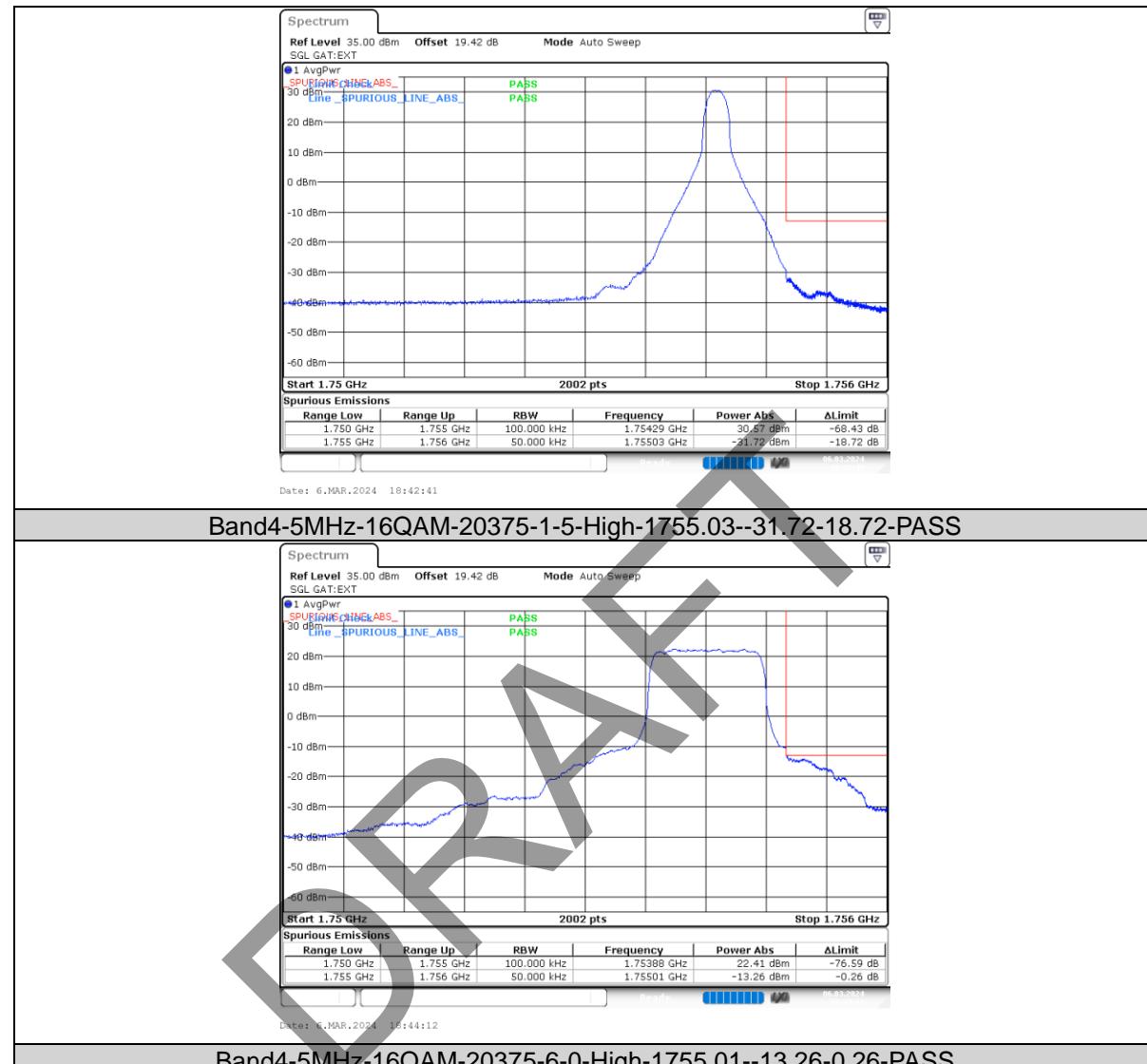


Test Report No.: W7L-P23120015RI04



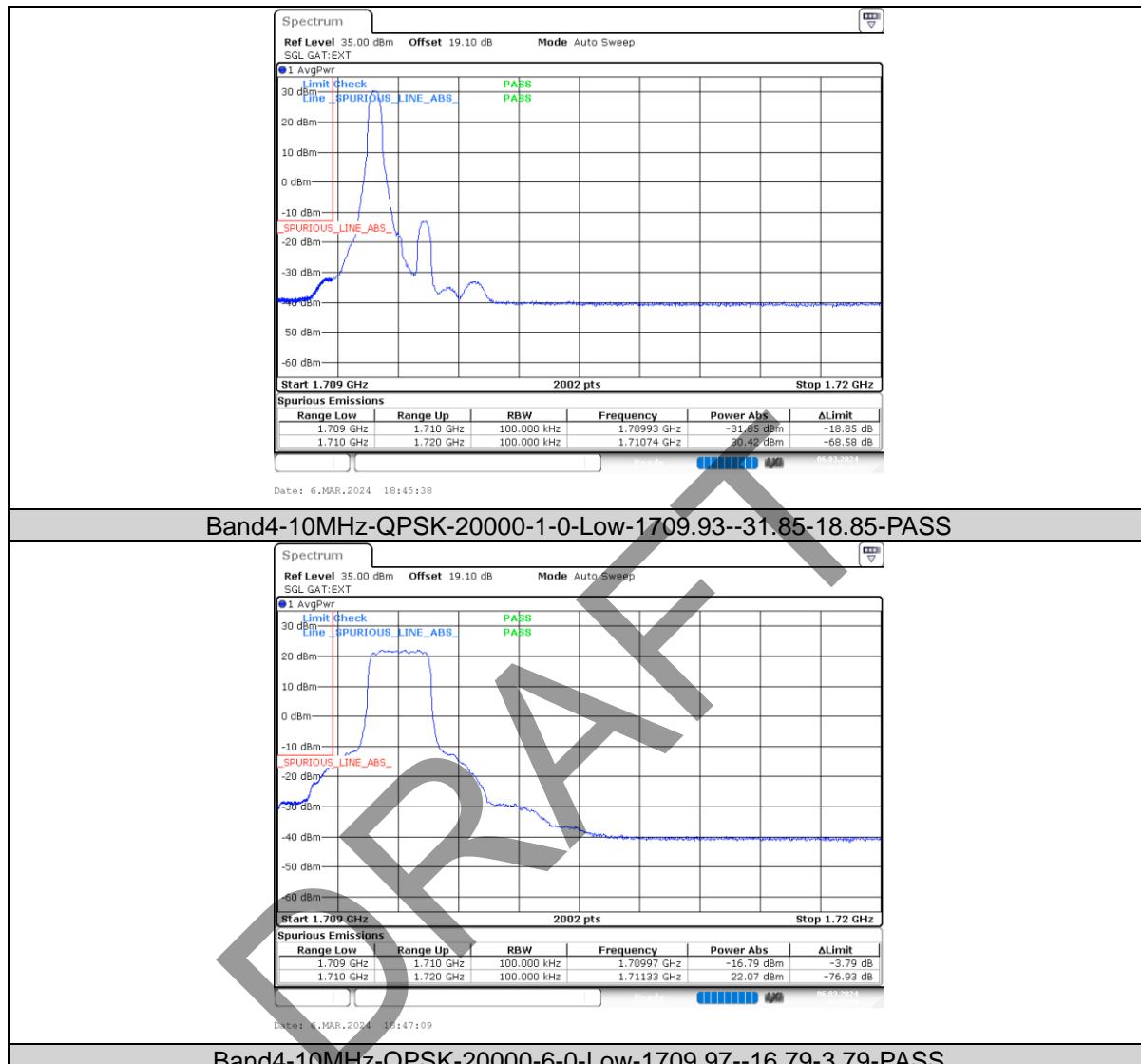


Test Report No.: W7L-P23120015RI04





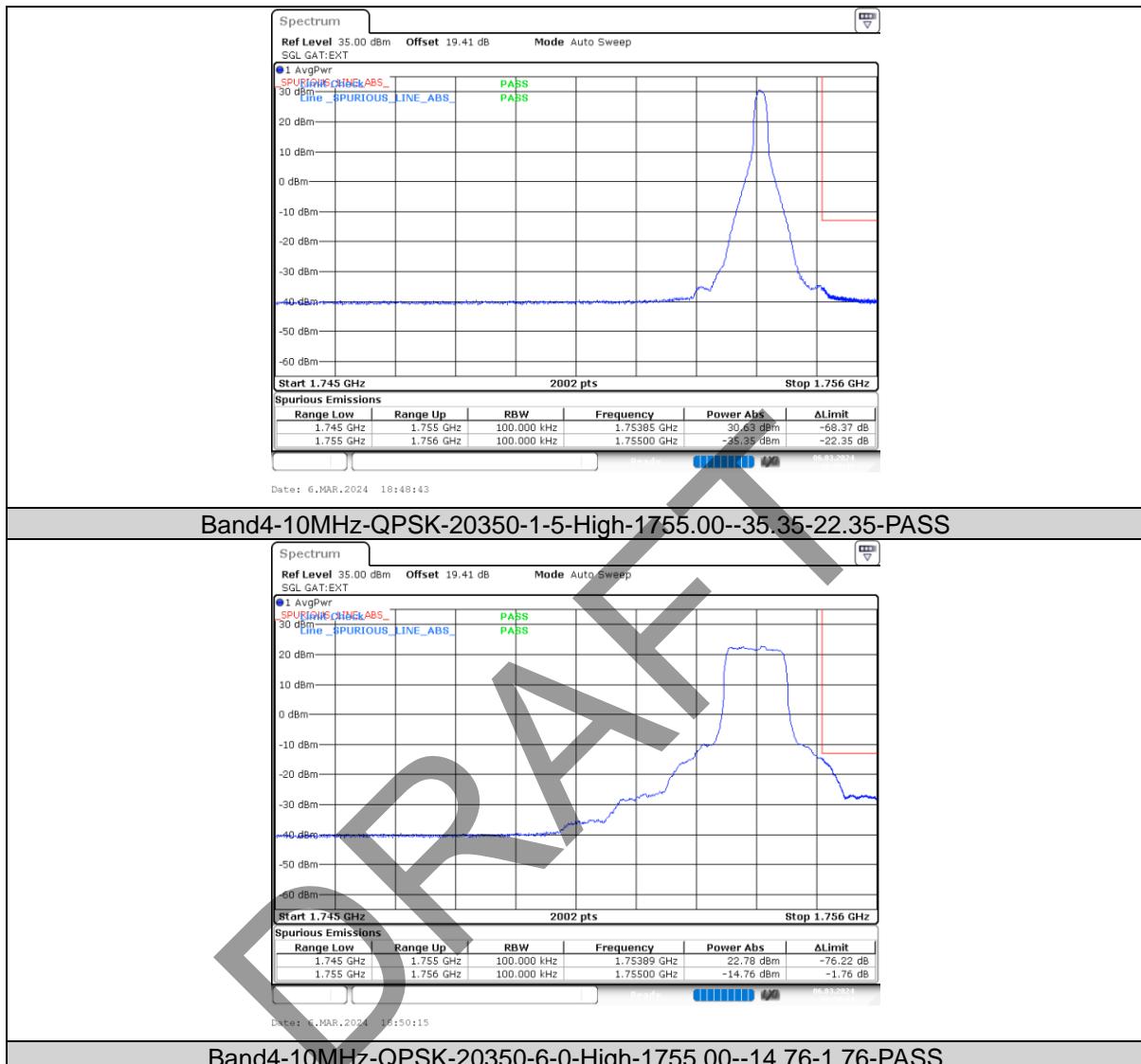
Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



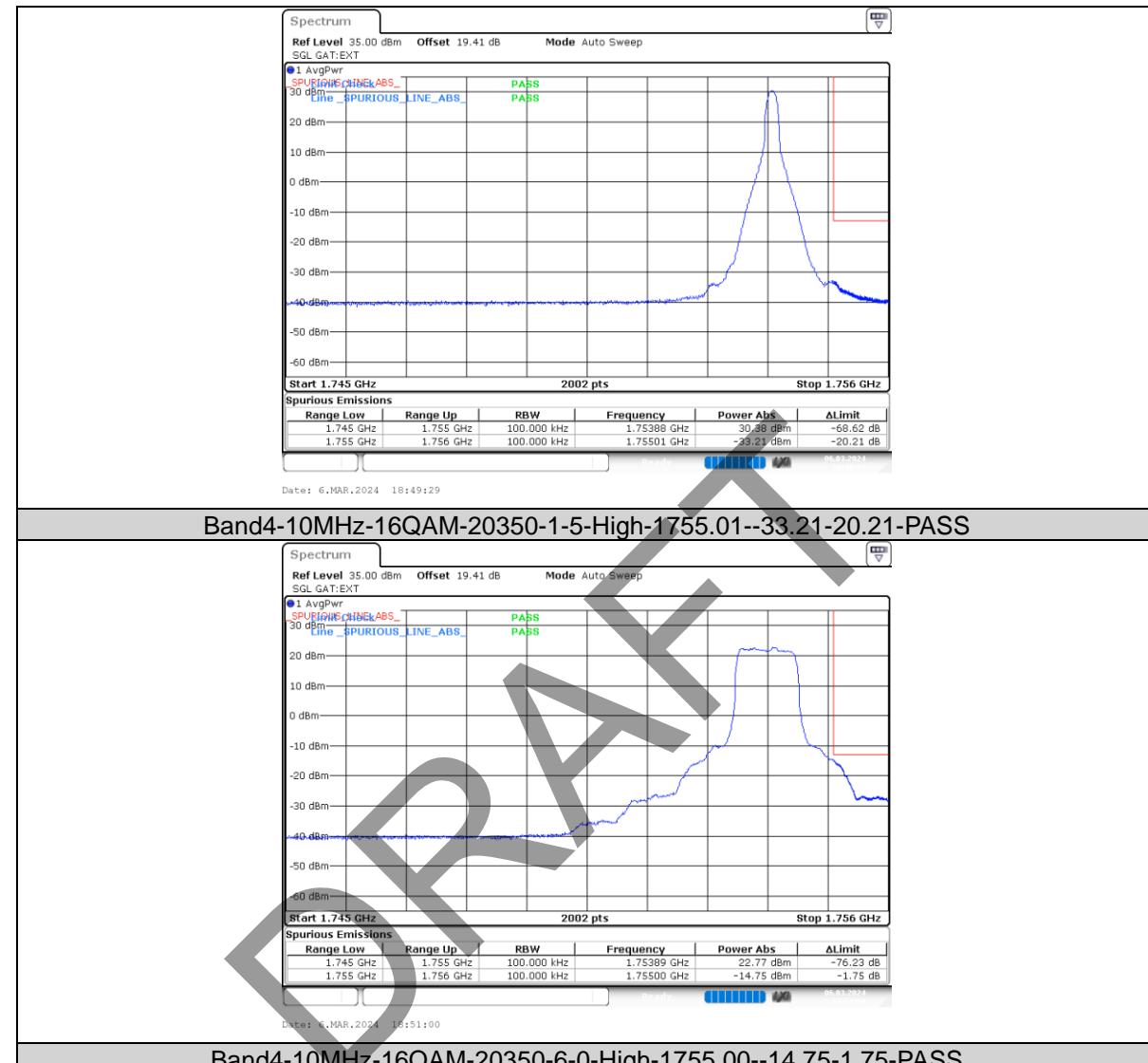


Test Report No.: W7L-P23120015RI04





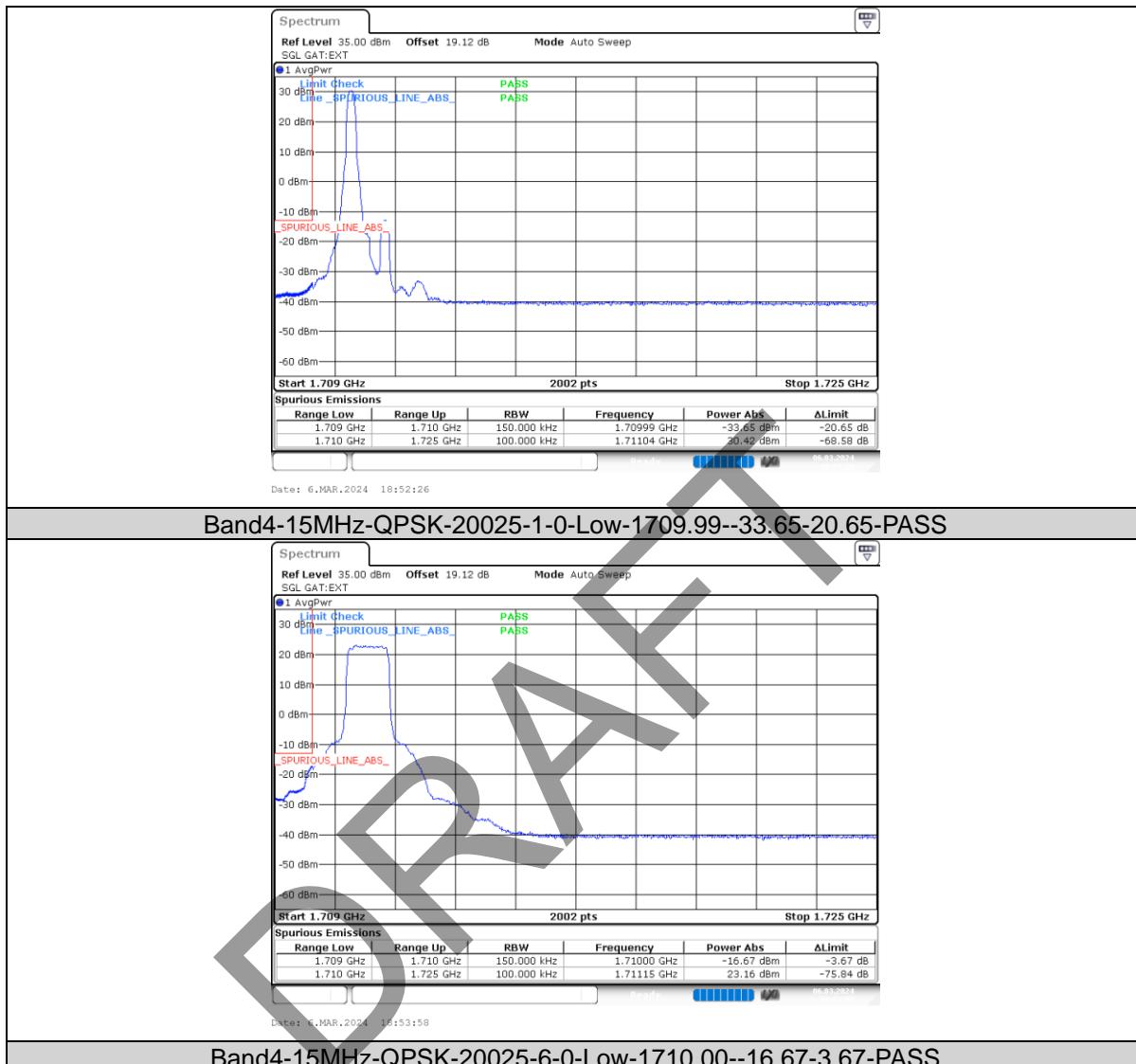
Test Report No.: W7L-P23120015RI04





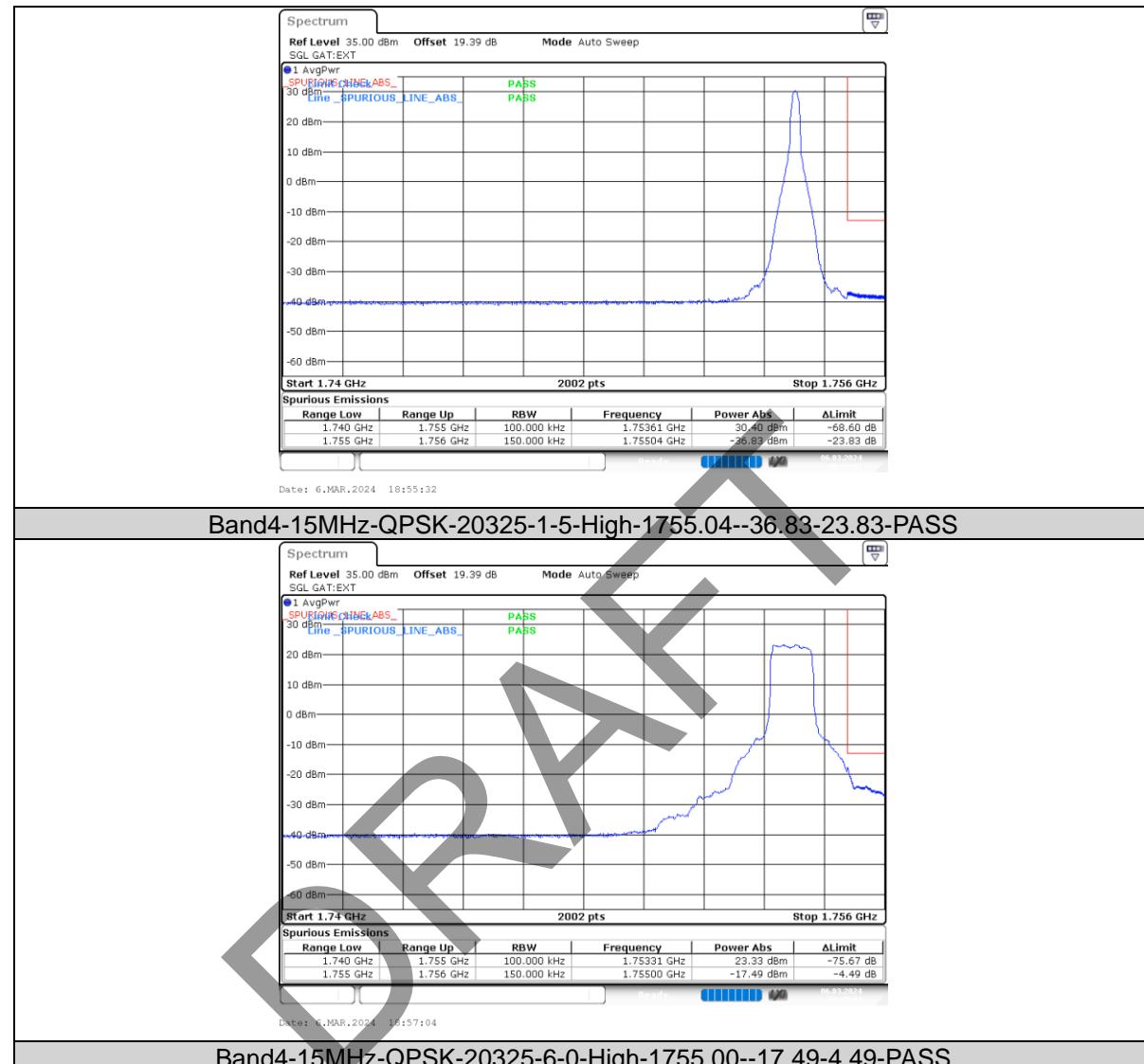
Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



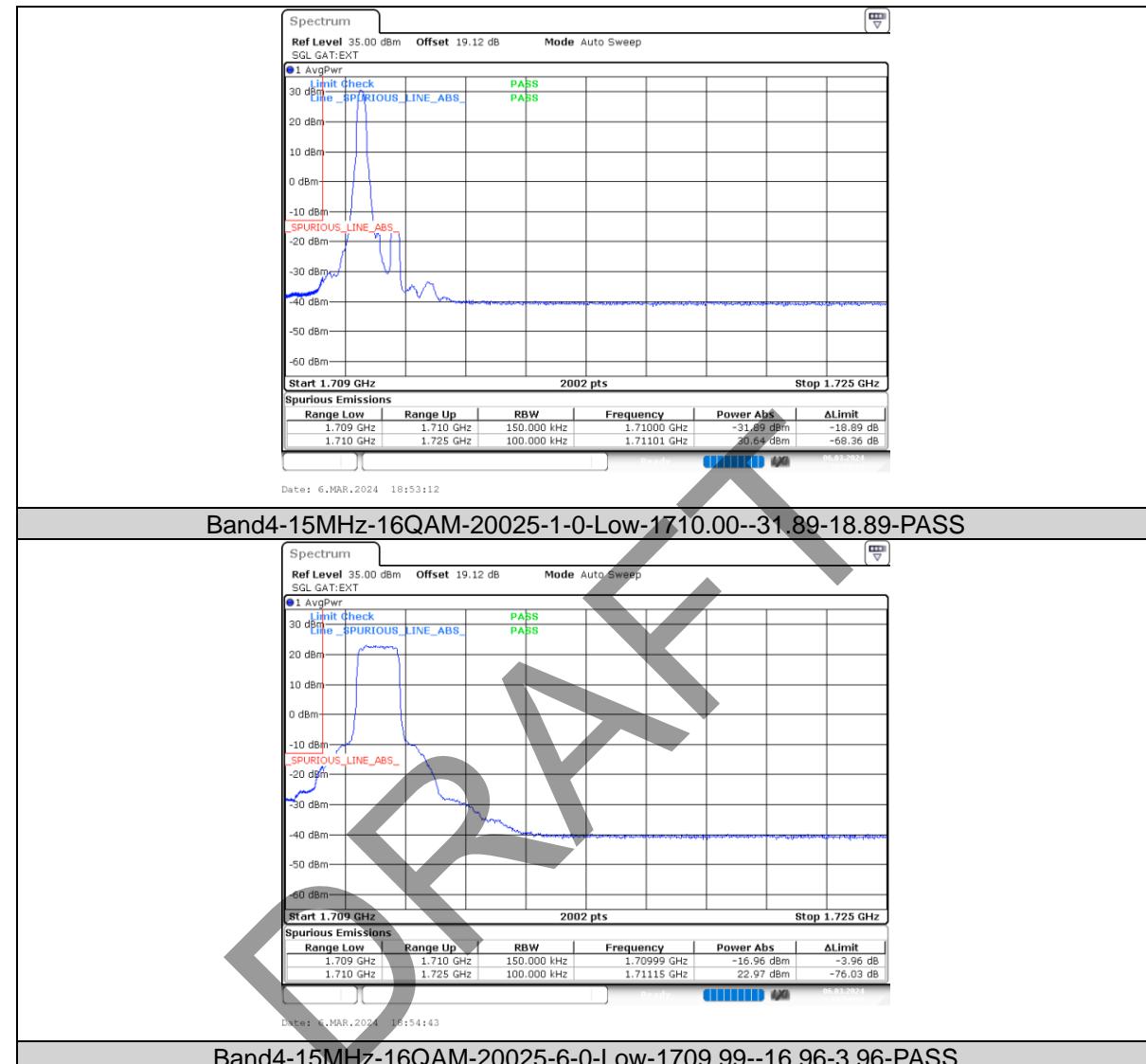


Test Report No.: W7L-P23120015RI04



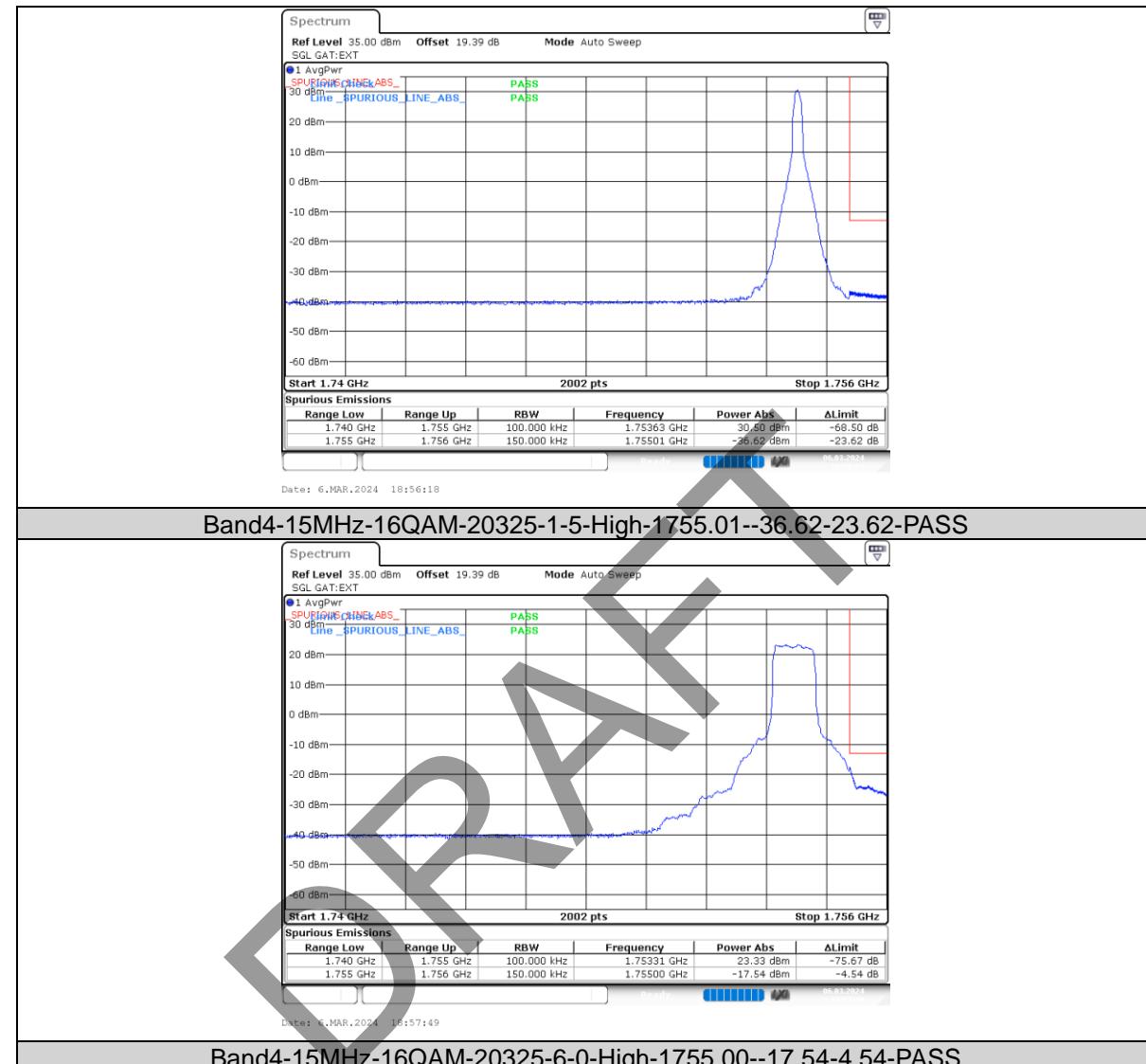


Test Report No.: W7L-P23120015RI04



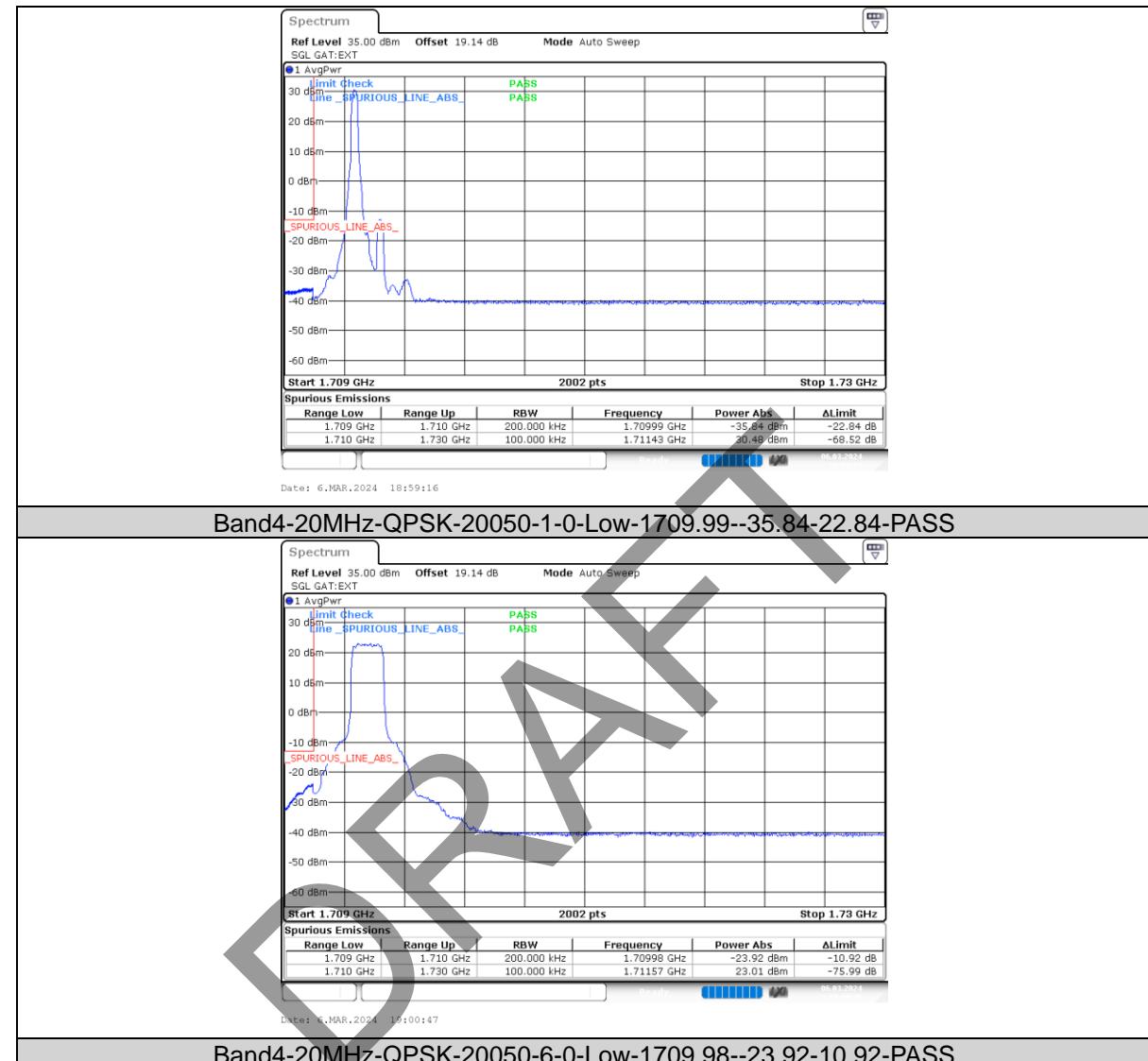


Test Report No.: W7L-P23120015RI04





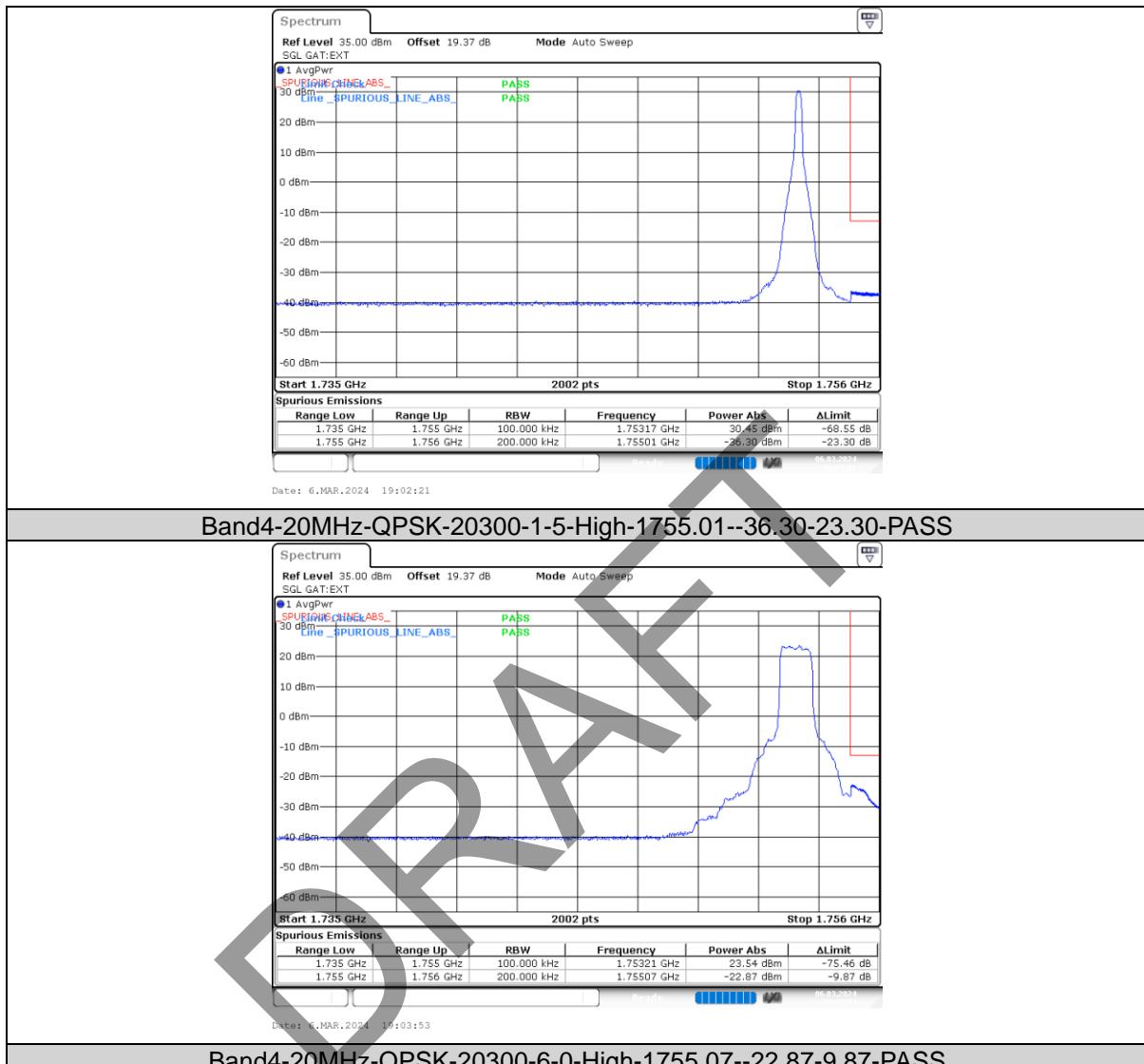
Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



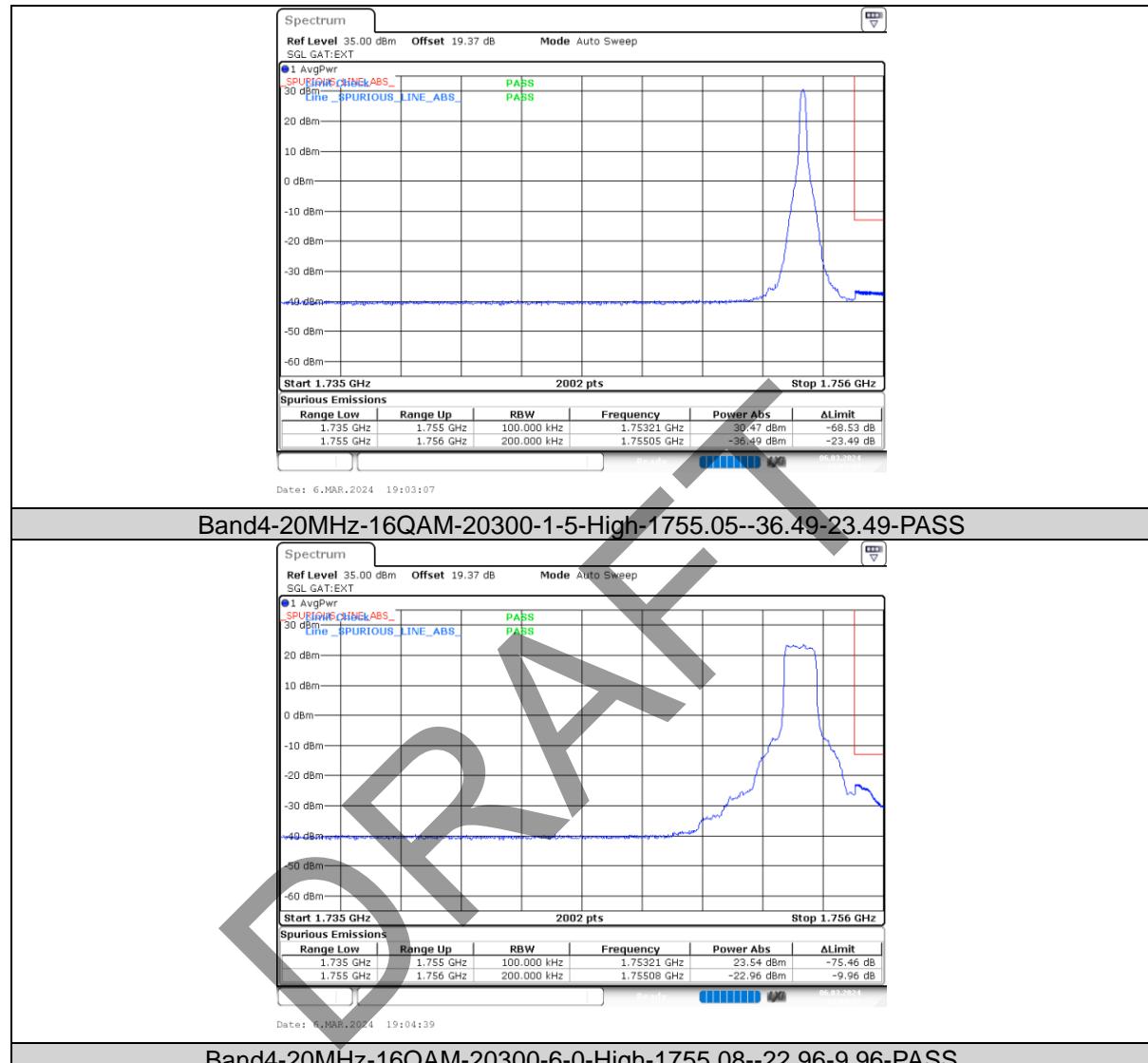


Test Report No.: W7L-P23120015RI04





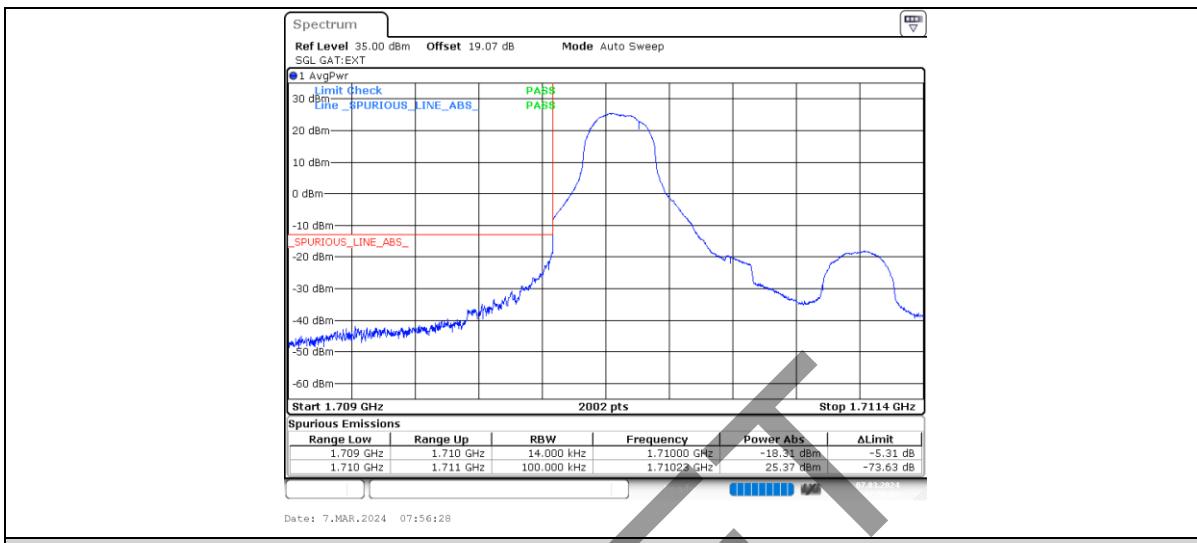
Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

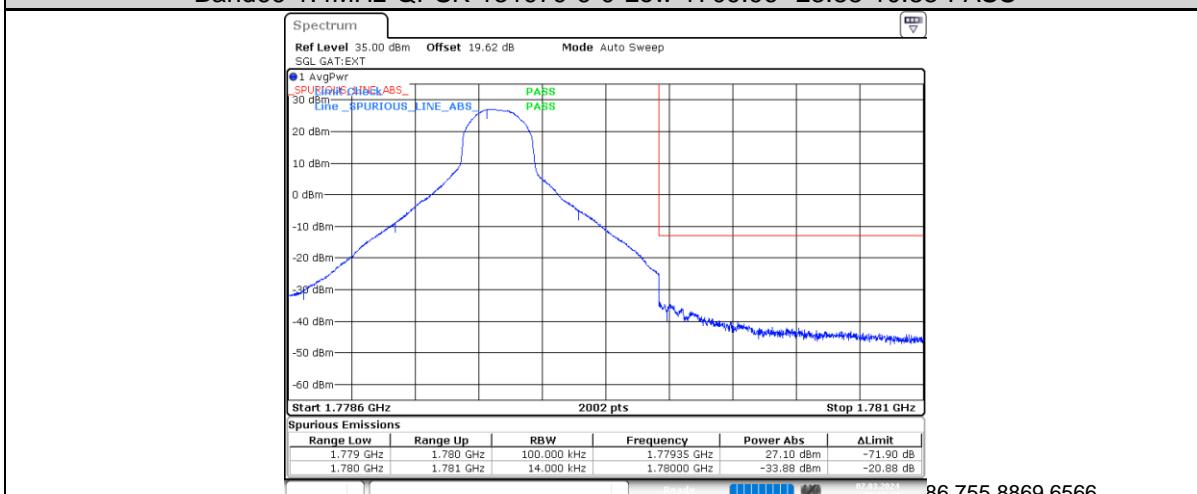
## Band 66 Test Graphs



Band66-1.4MHz-QPSK-131979-1-0-Low-1710.00--18.31-5.31-PASS



Band66-1.4MHz-QPSK-131979-6-0-Low-1709.96--23.88-10.88-PASS

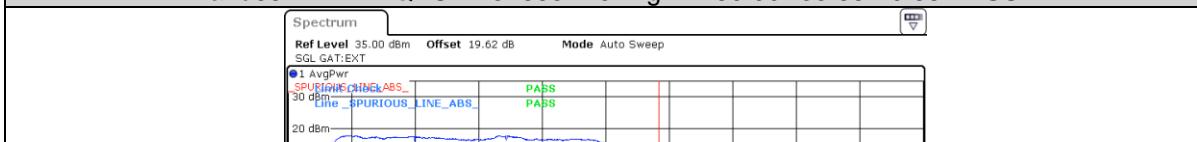


86 755 8869 6566

+86 755 8869 6577

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd.

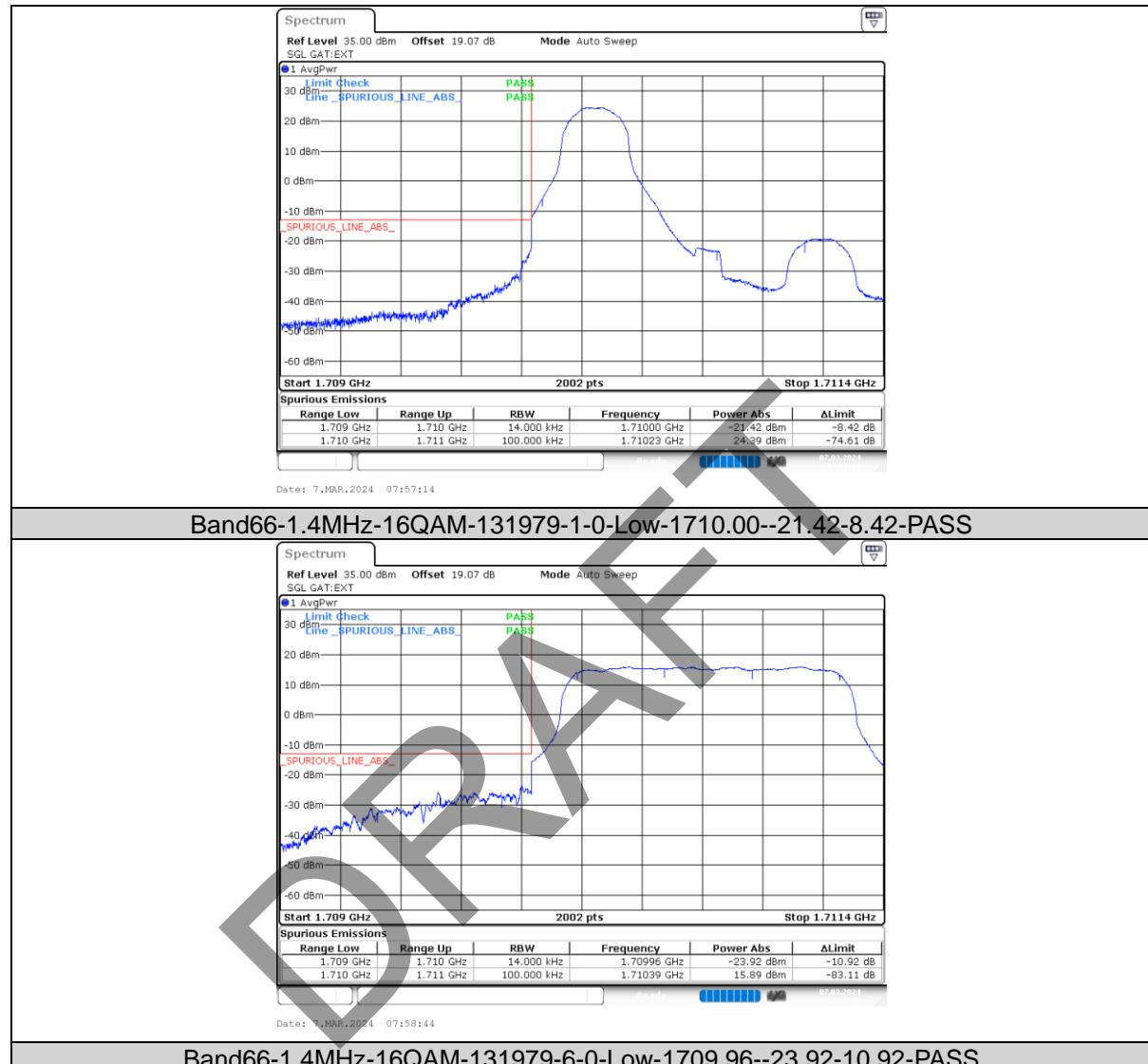
Band66-1.4MHz-QPSK-132665-1-5-High-1780.00--33.88-20.88-PASS



s.com



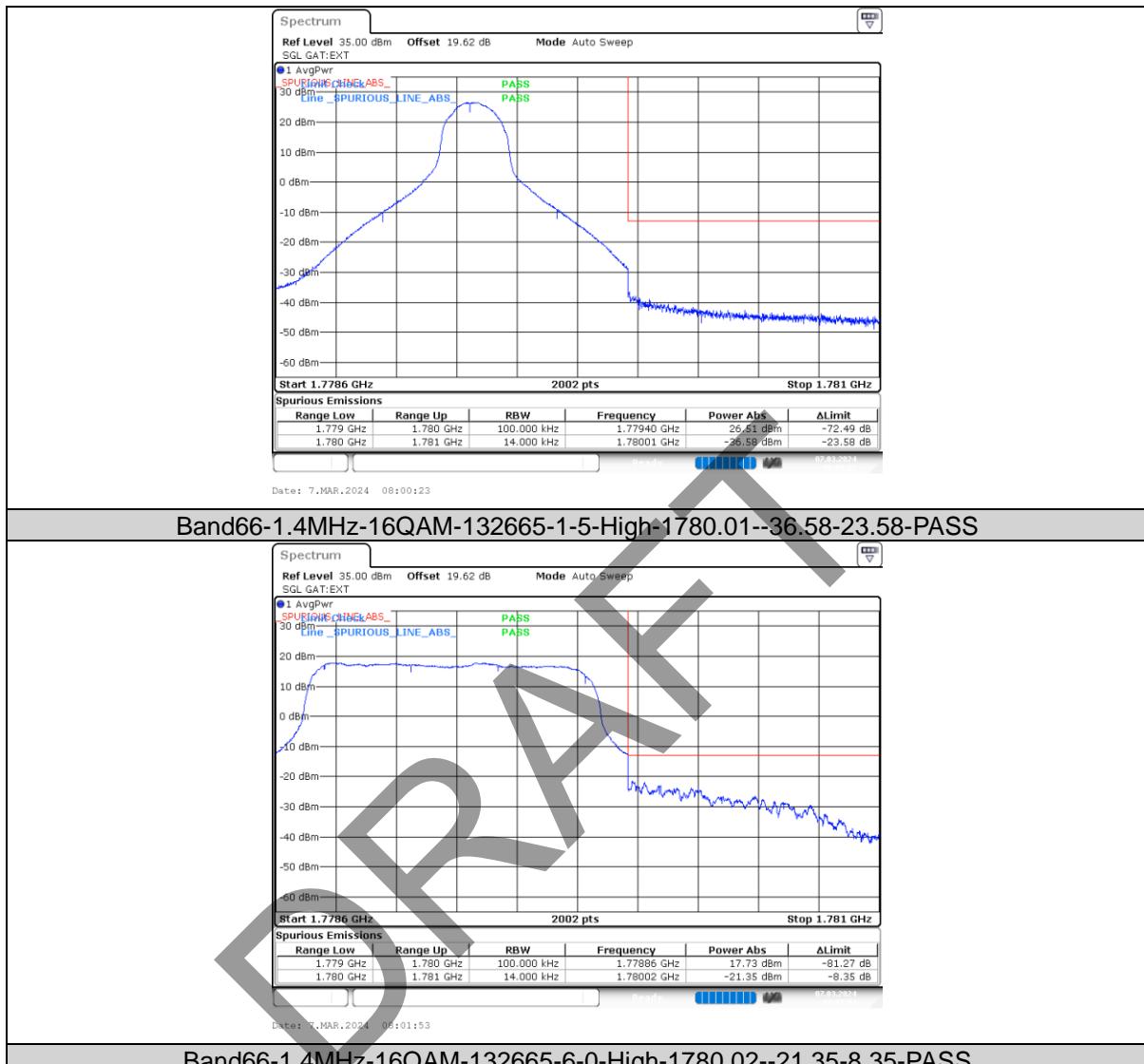
Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

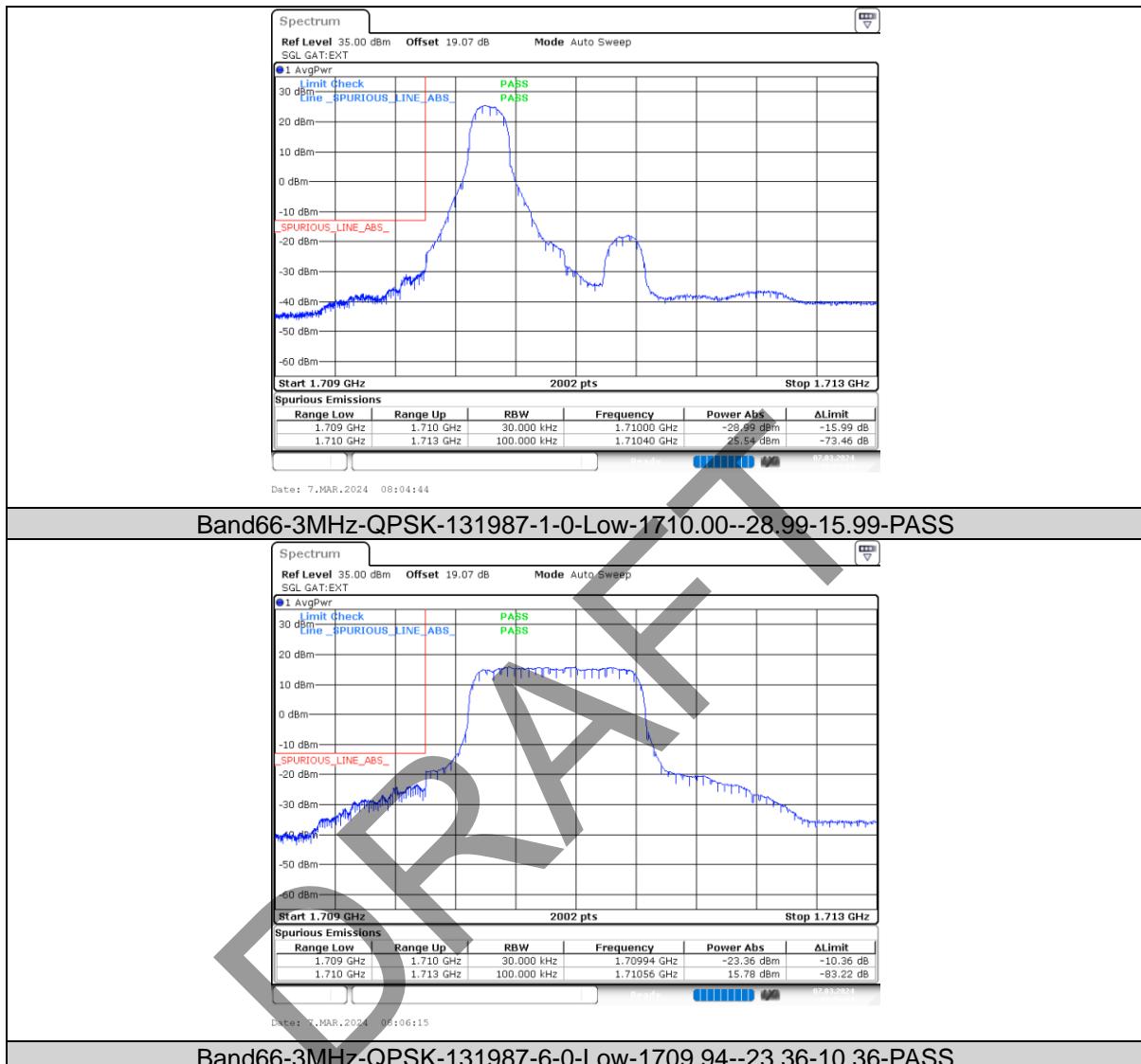
BUREAU  
VERITAS





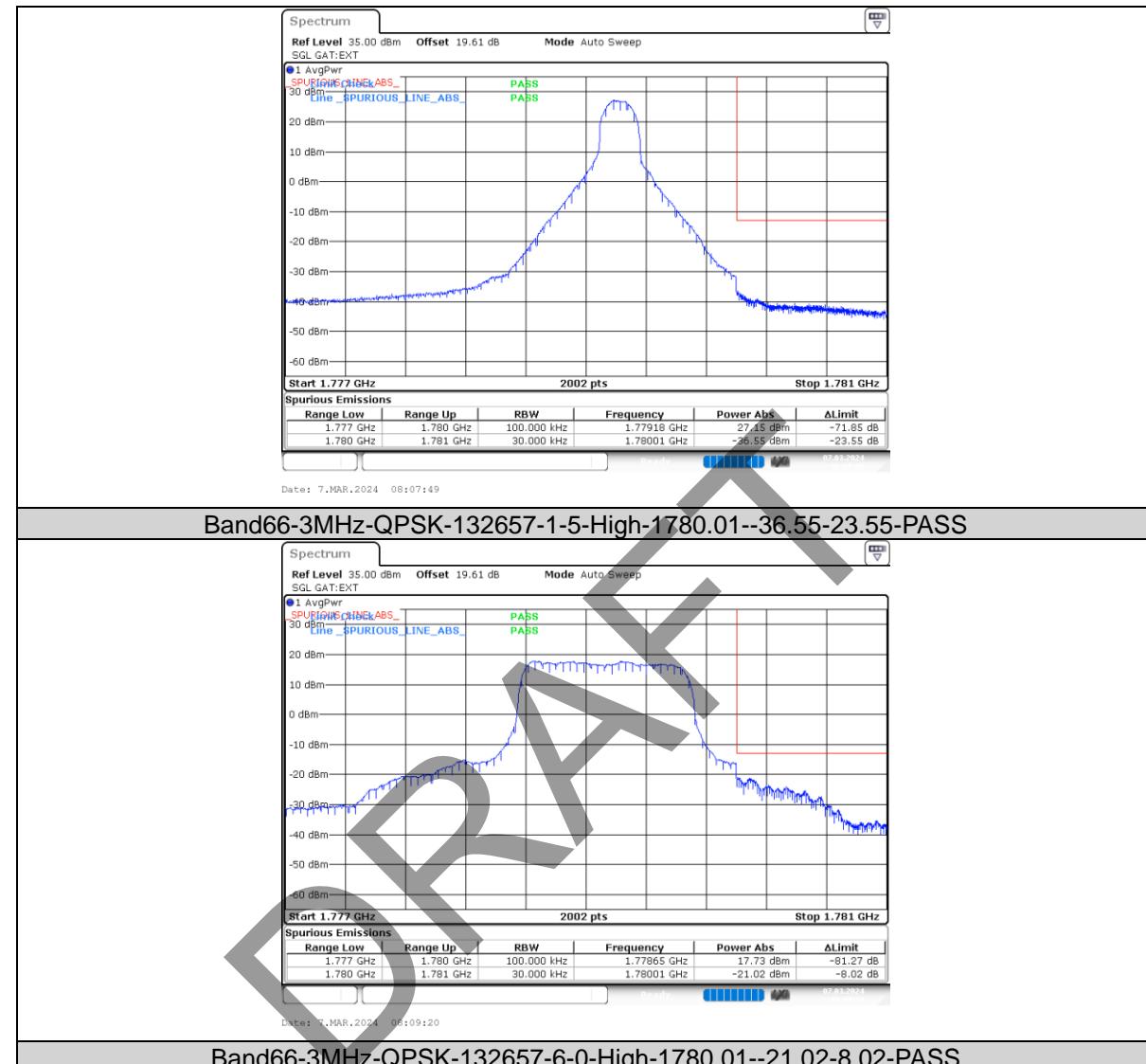
Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



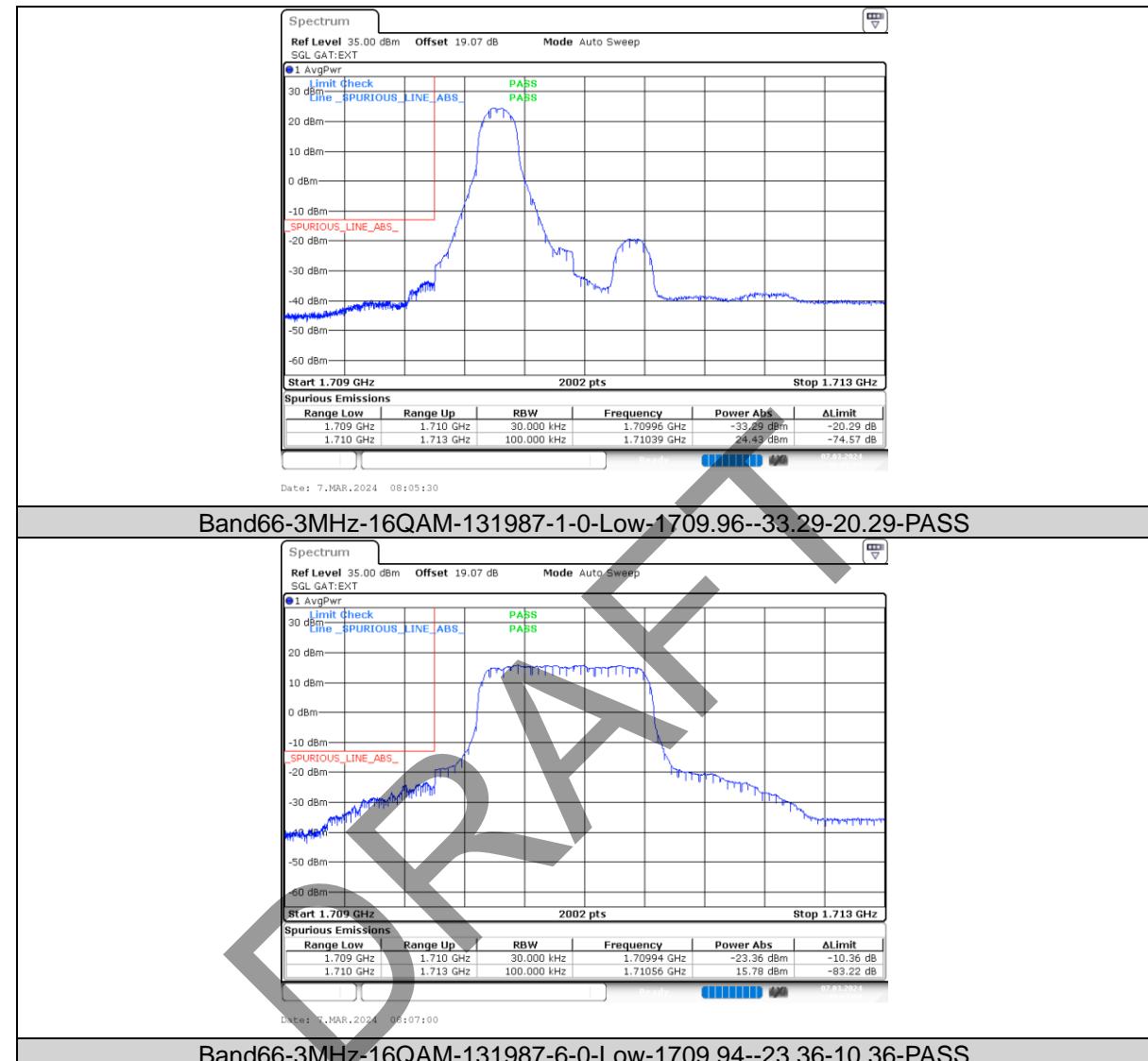


Test Report No.: W7L-P23120015RI04





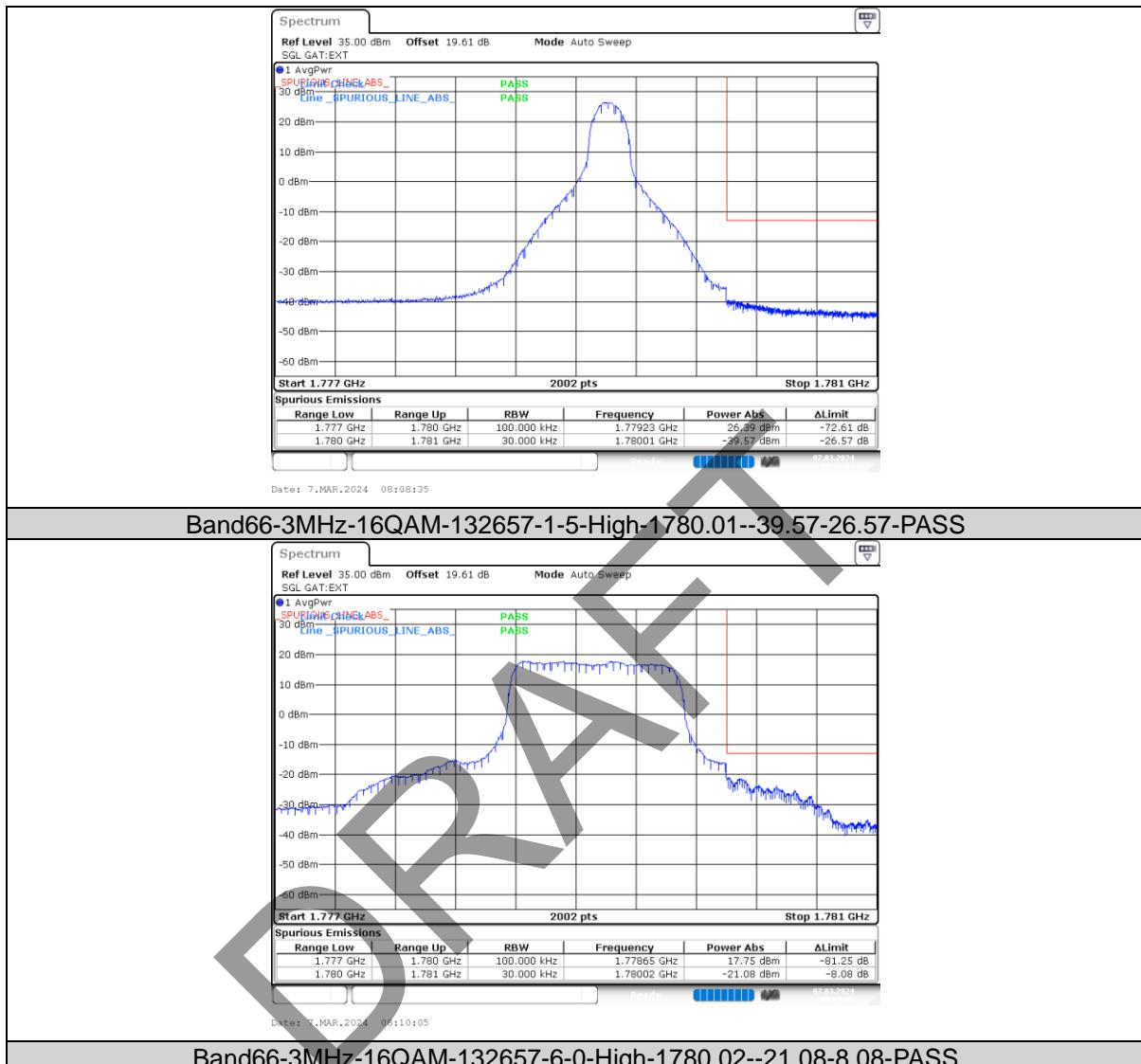
Test Report No.: W7L-P23120015RI04





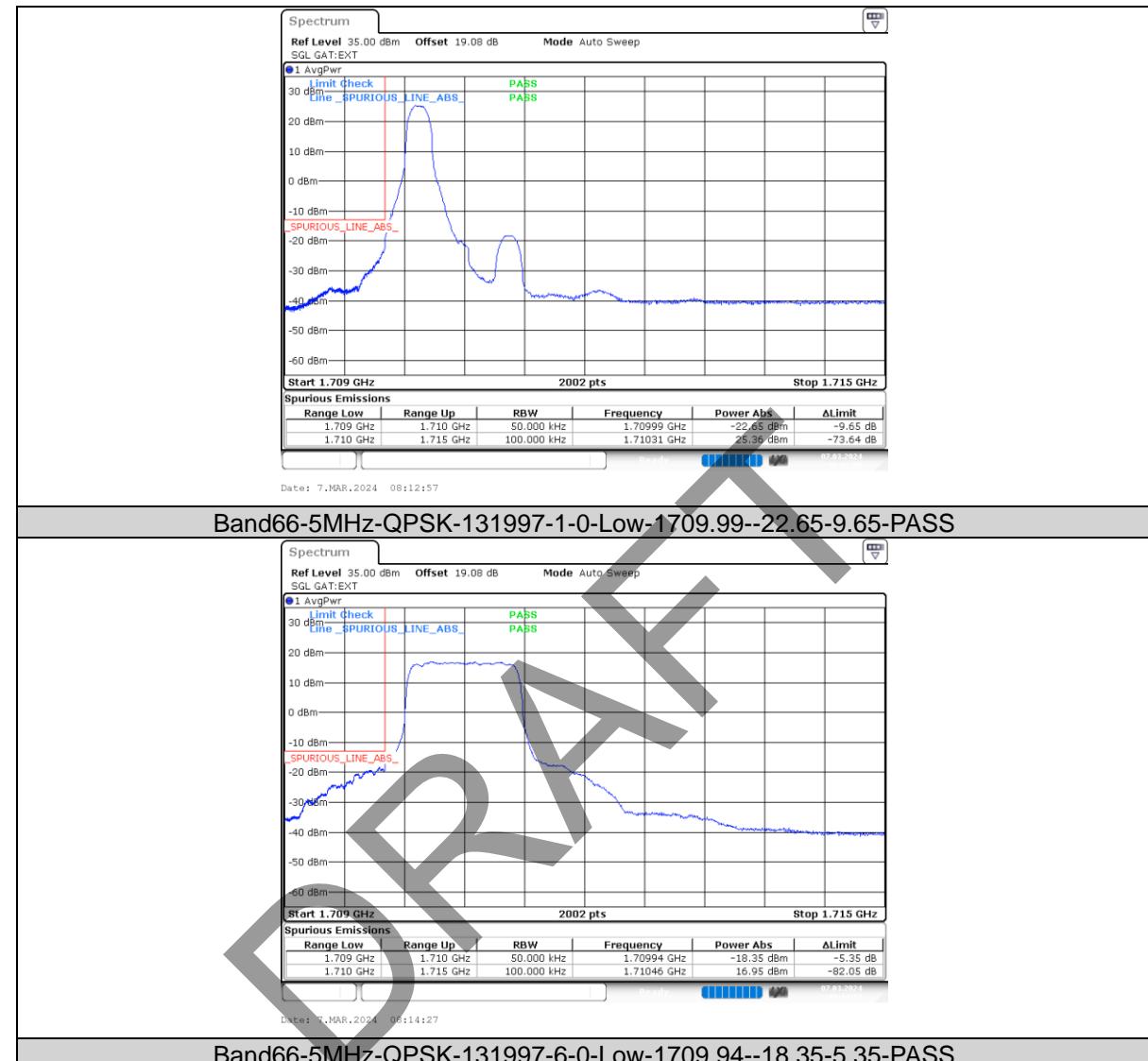
Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



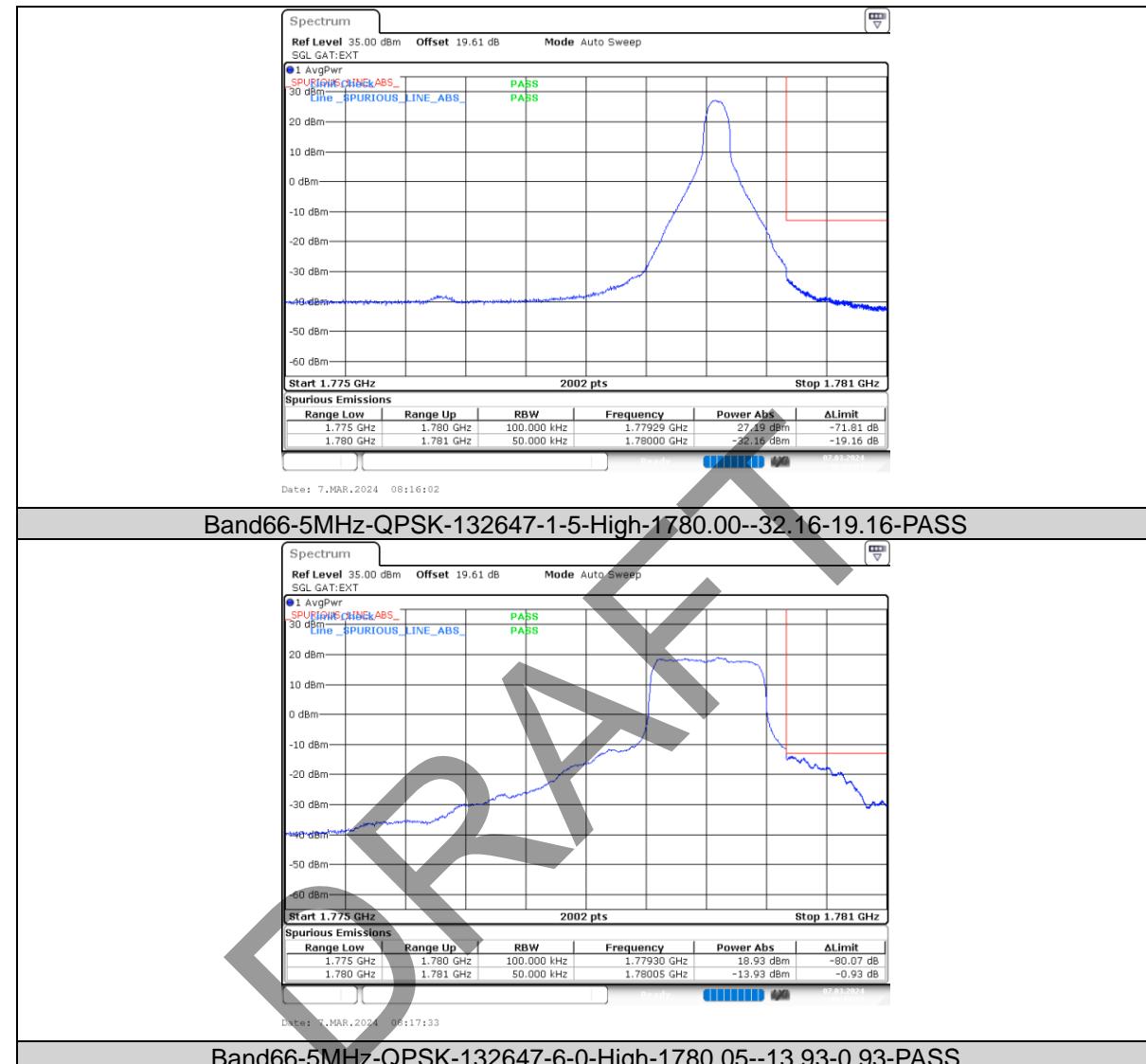


Test Report No.: W7L-P23120015RI04



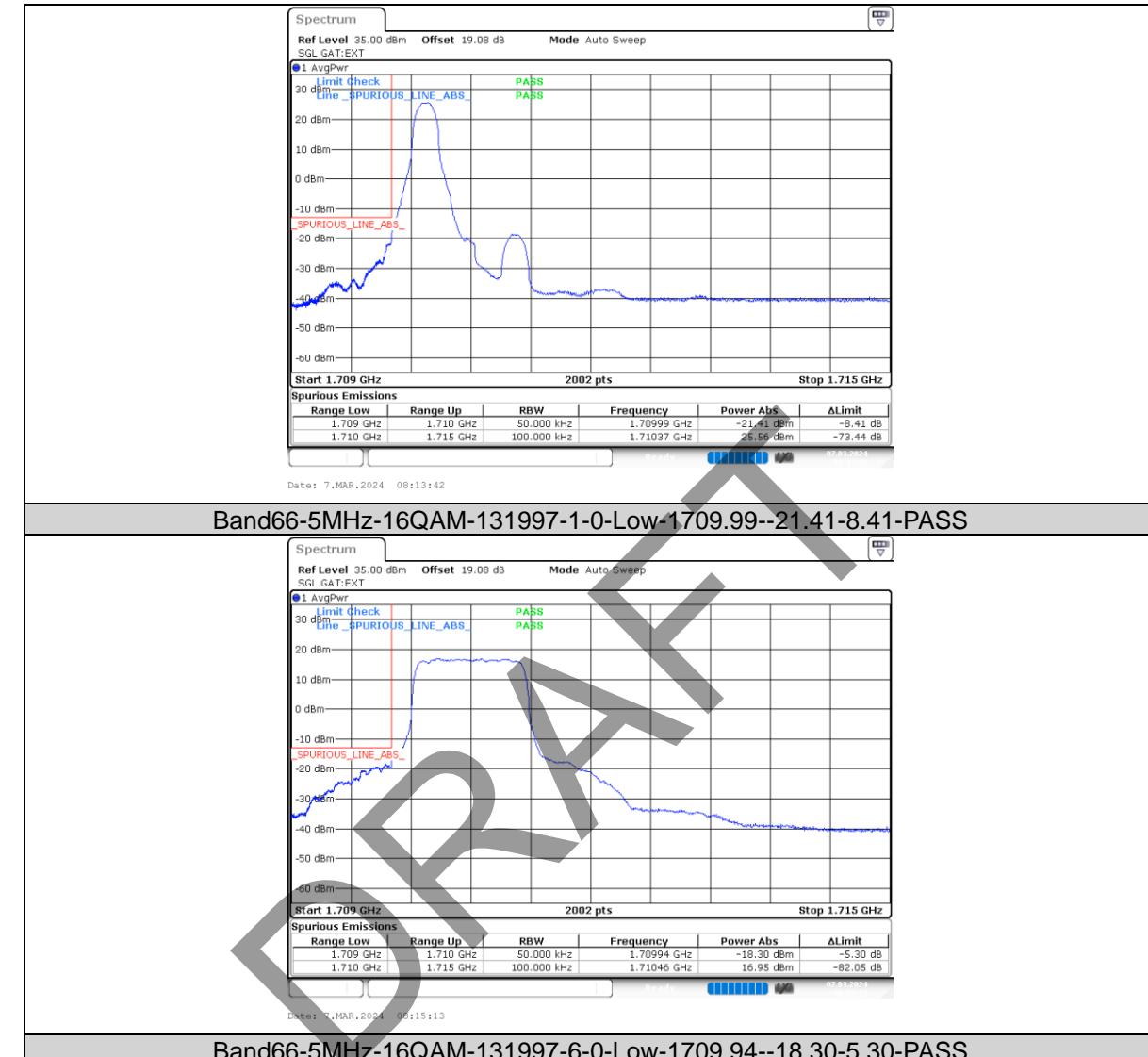


Test Report No.: W7L-P23120015RI04



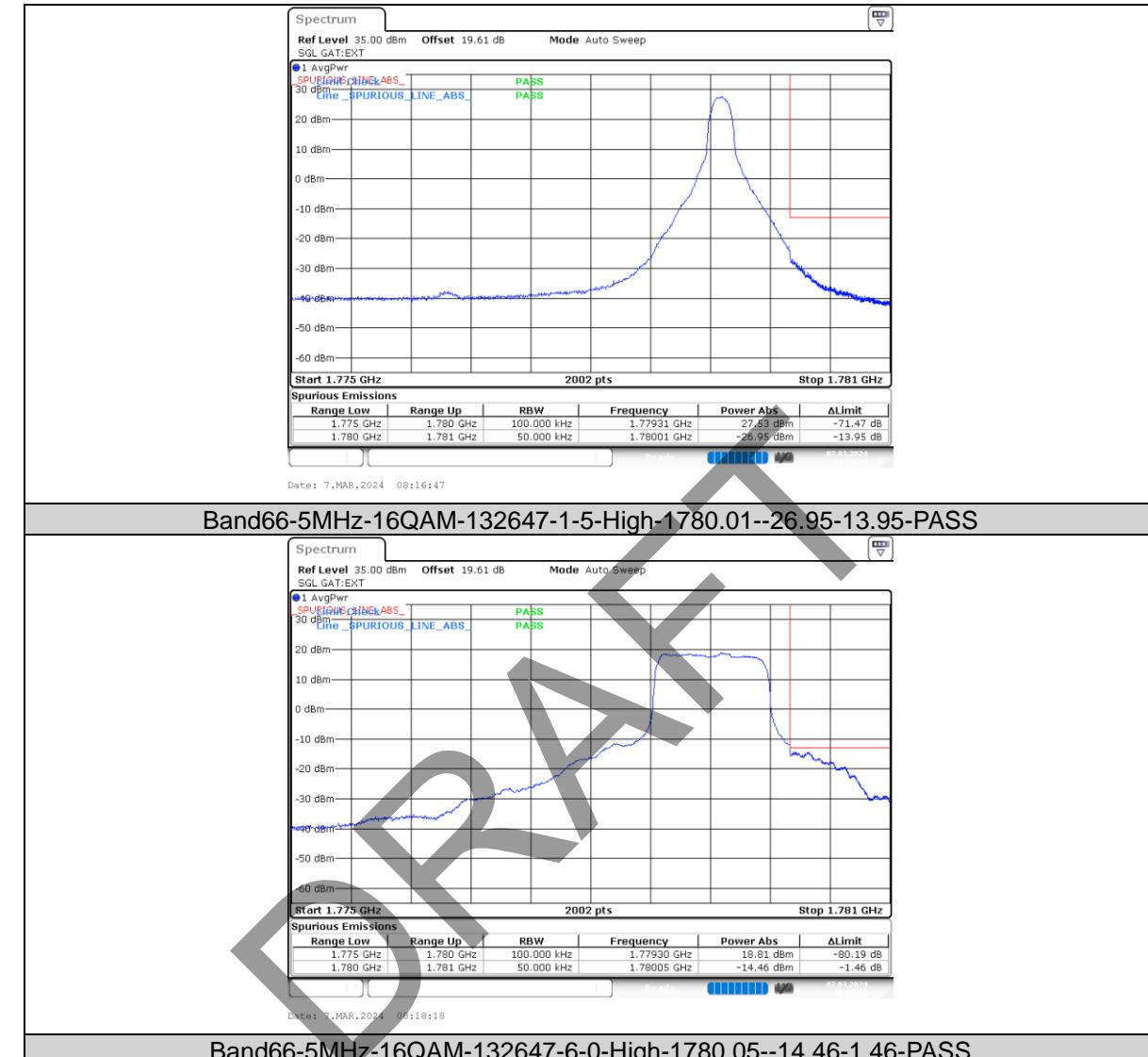


Test Report No.: W7L-P23120015RI04



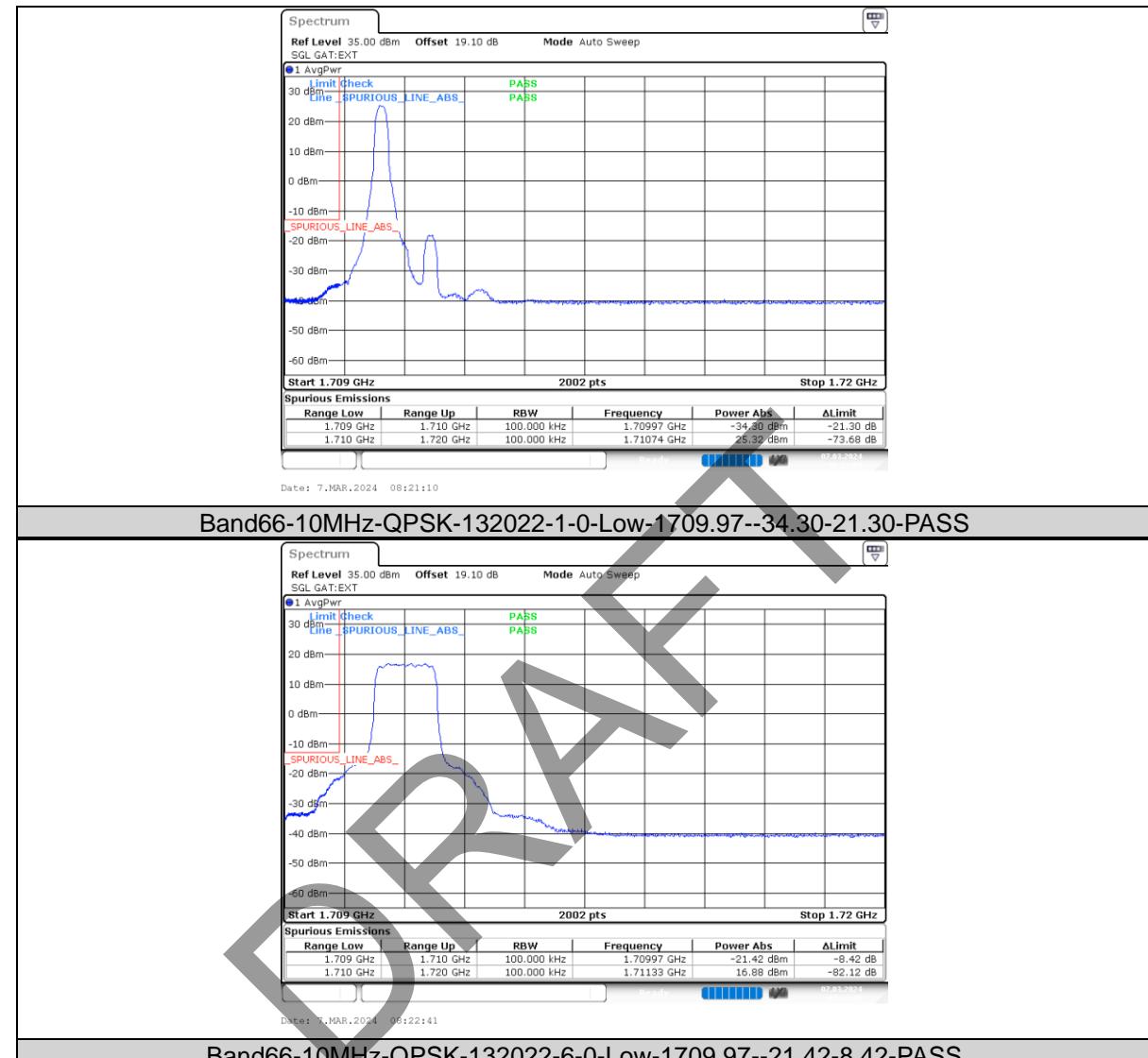


Test Report No.: W7L-P23120015RI04



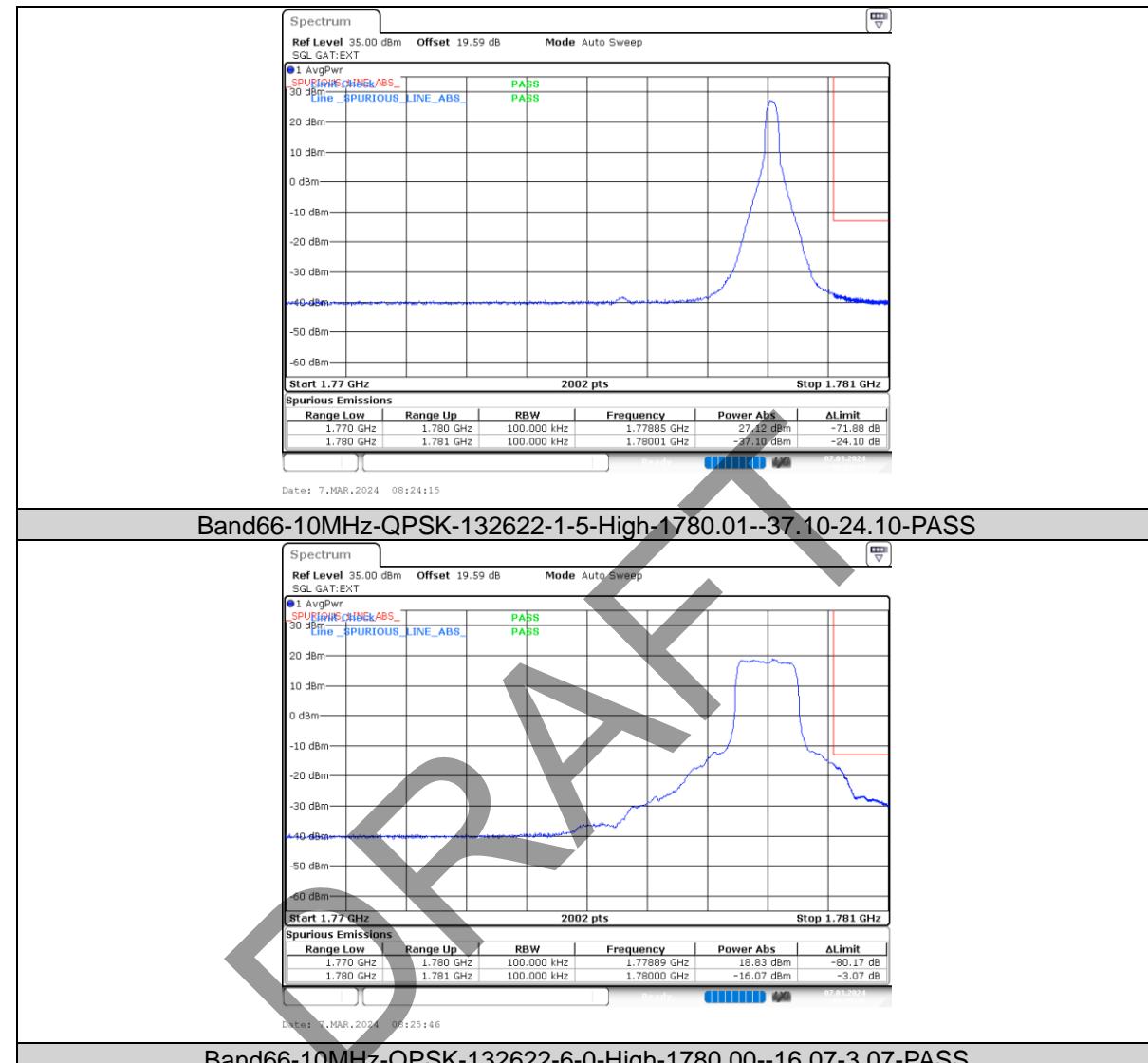


Test Report No.: W7L-P23120015RI04





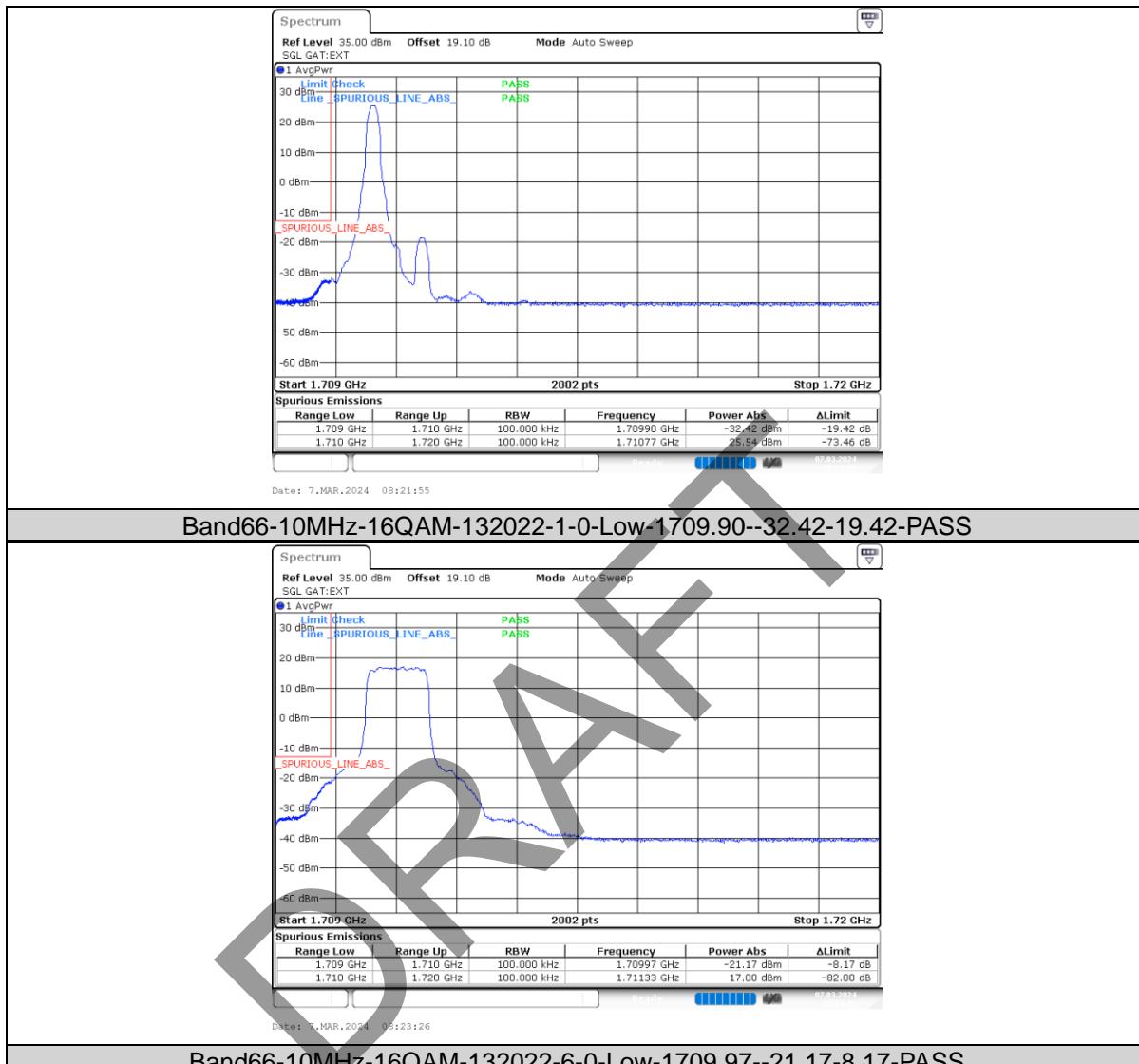
Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

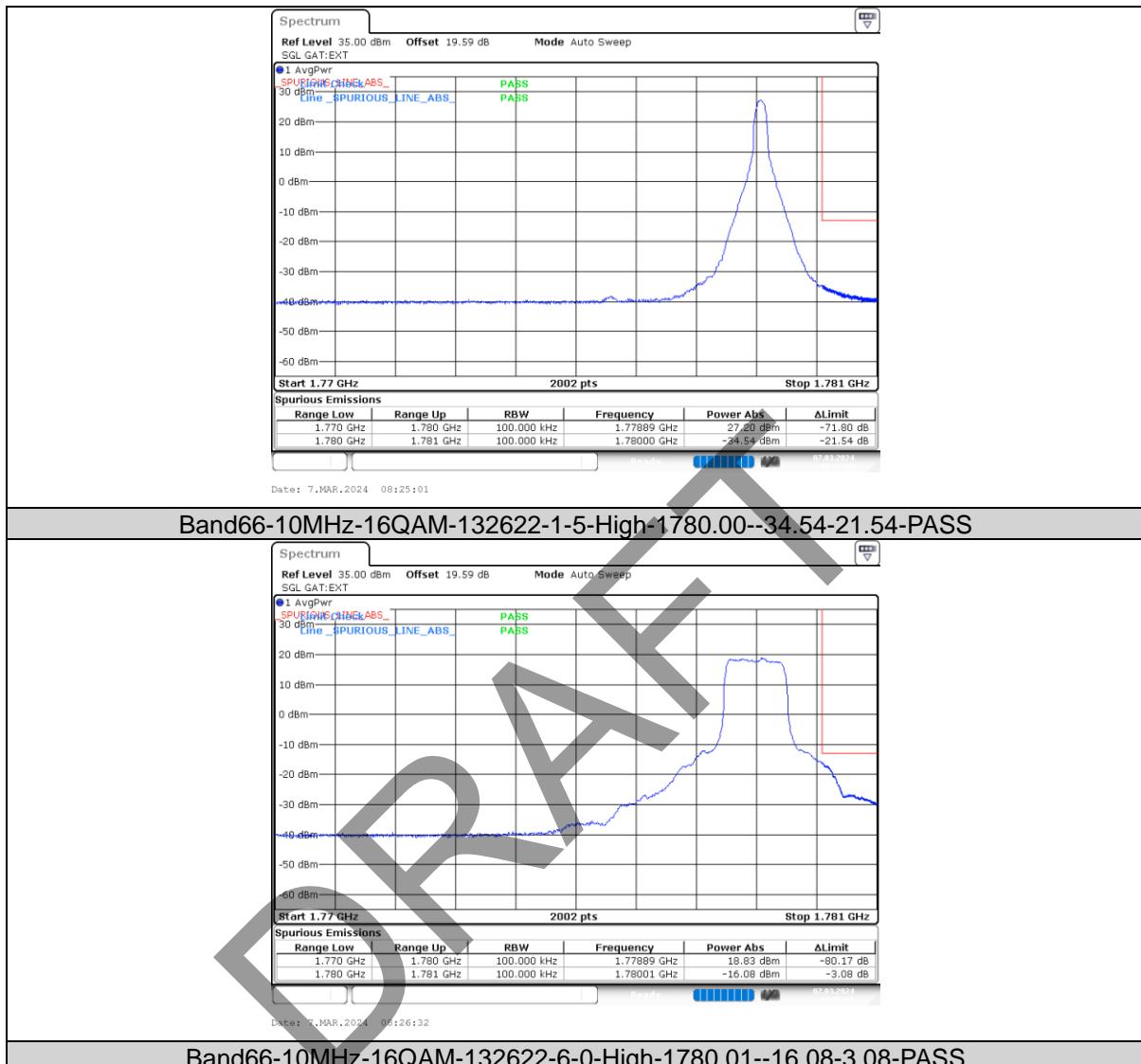
BUREAU  
VERITAS





Test Report No.: W7L-P23120015RI04

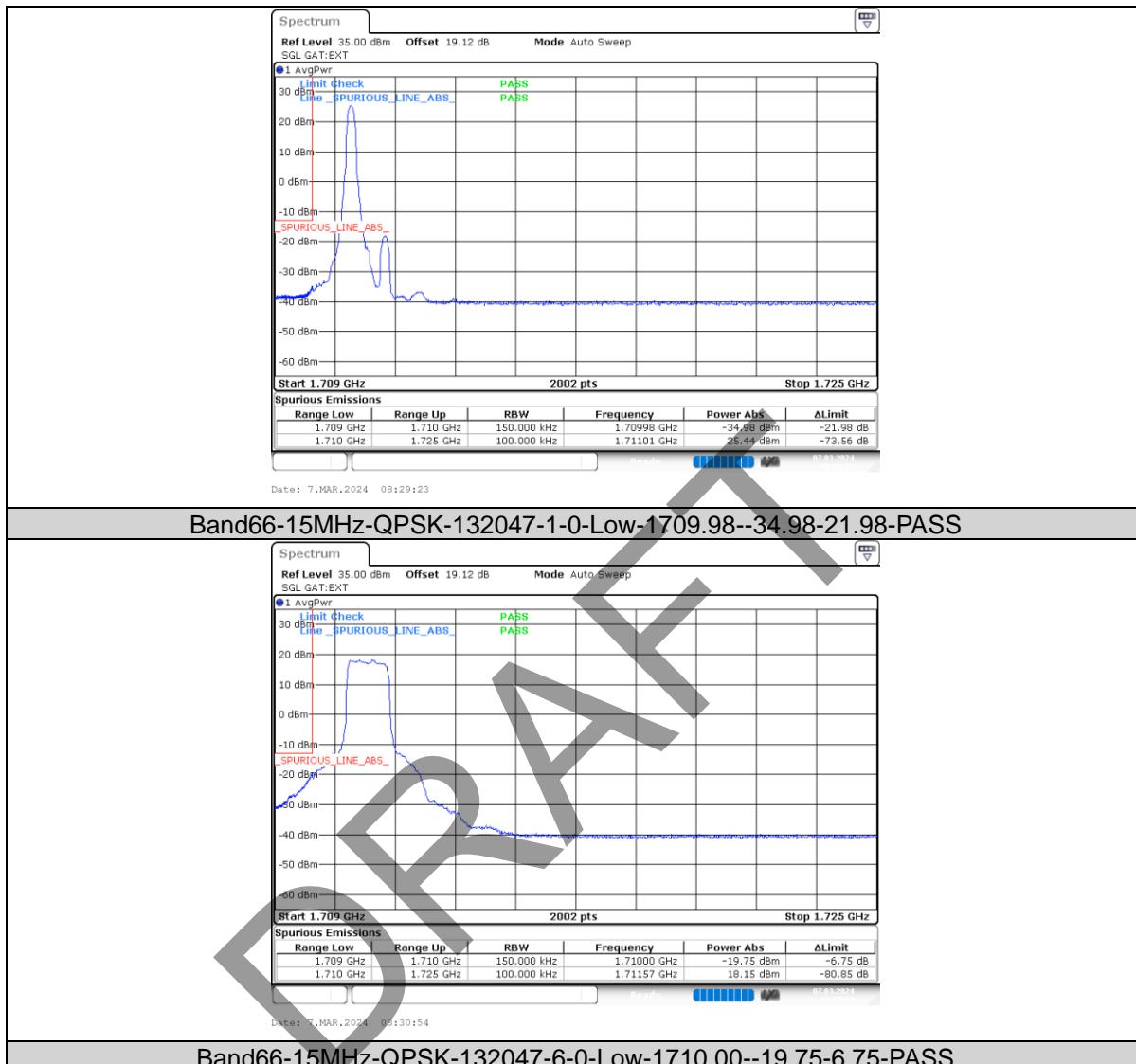
BUREAU  
VERITAS





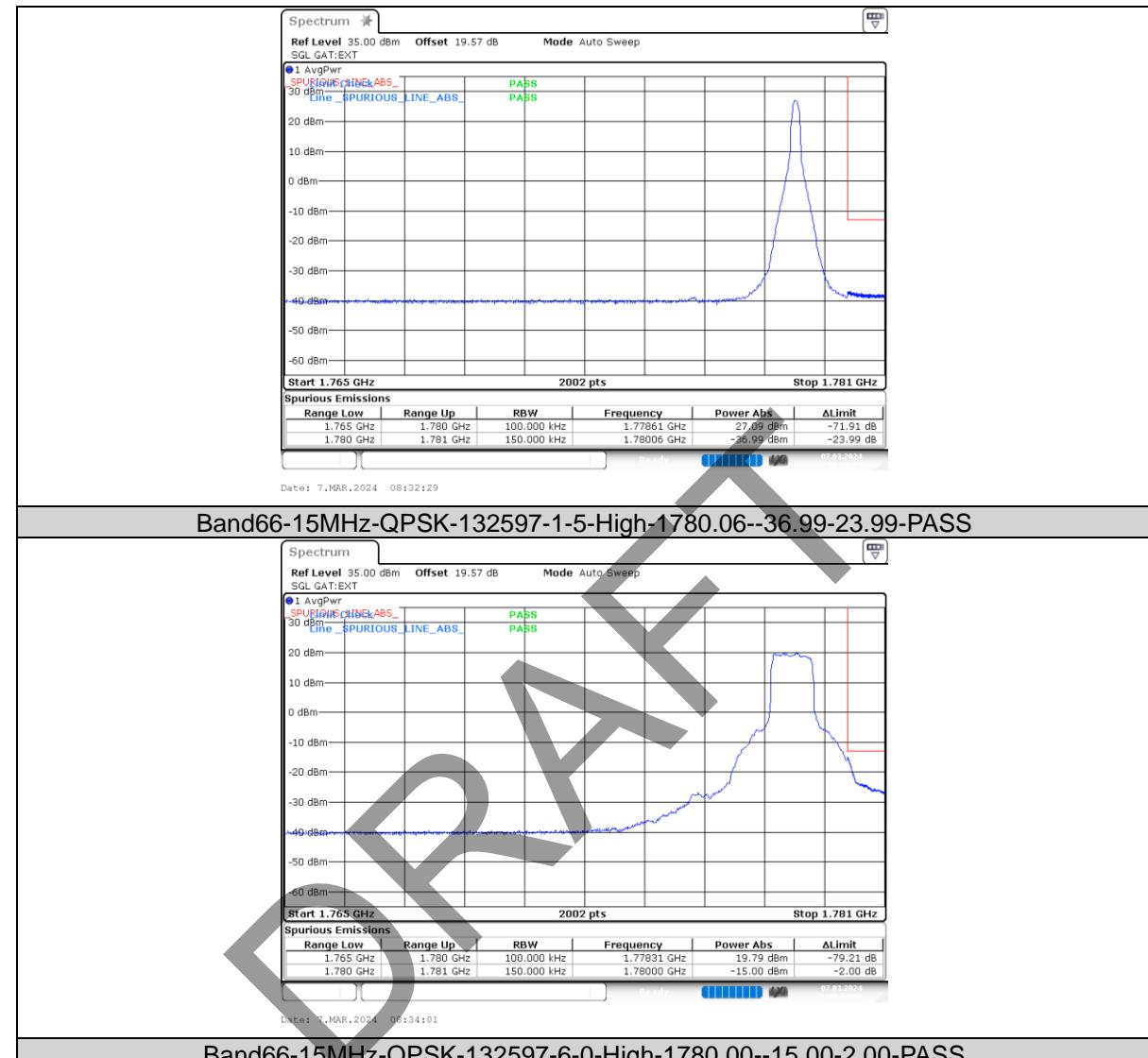
Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS



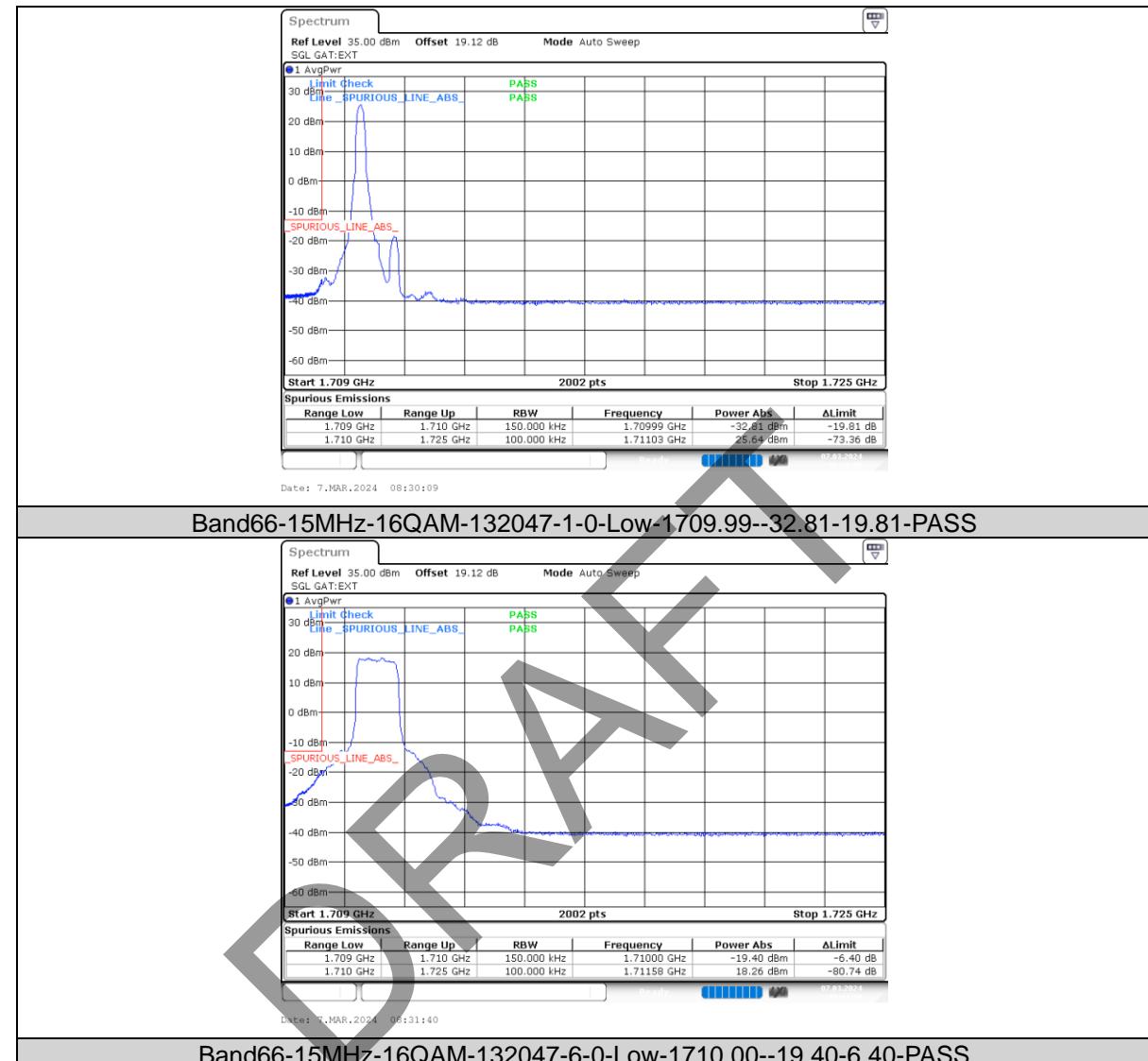


Test Report No.: W7L-P23120015RI04



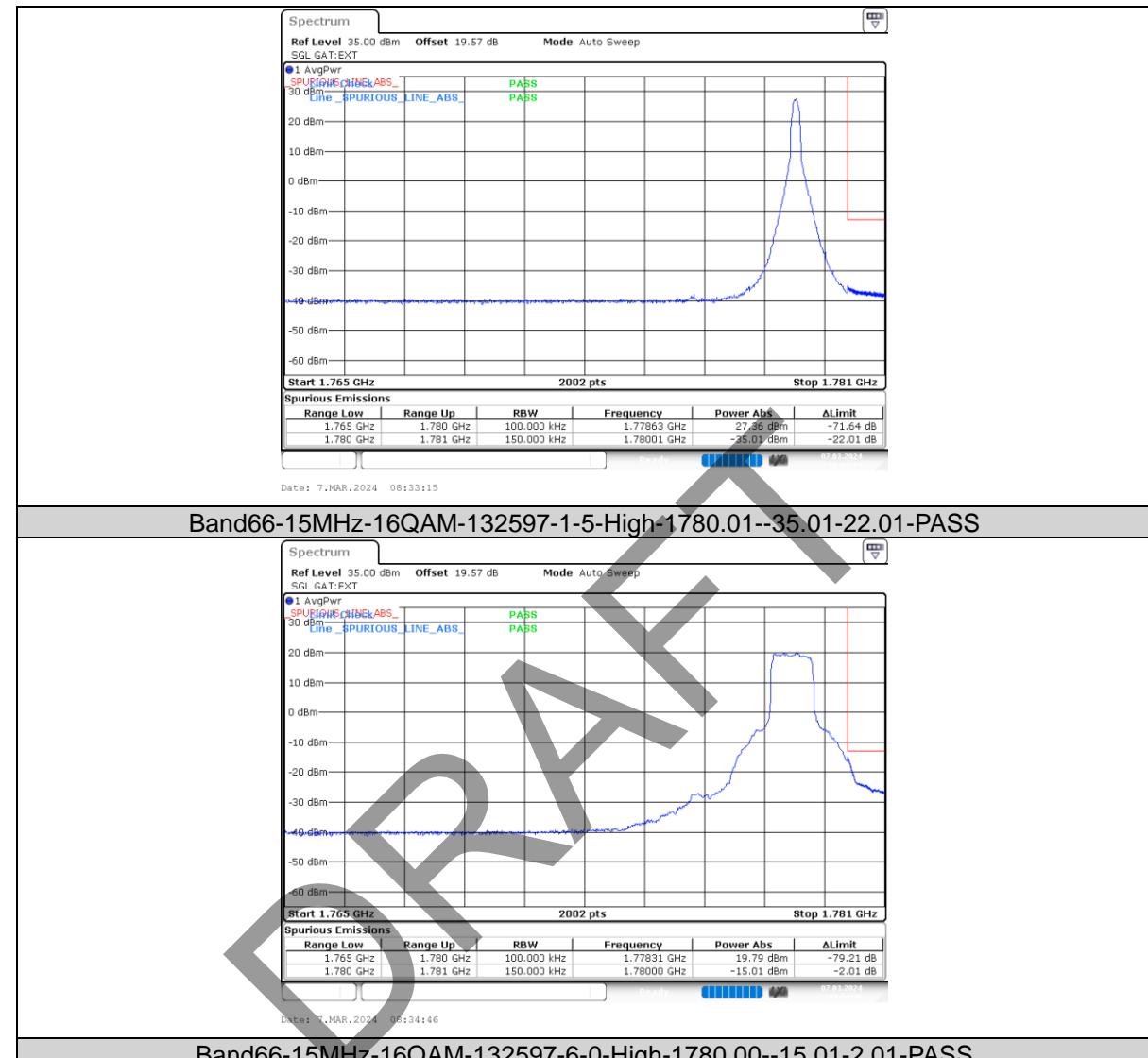


Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04



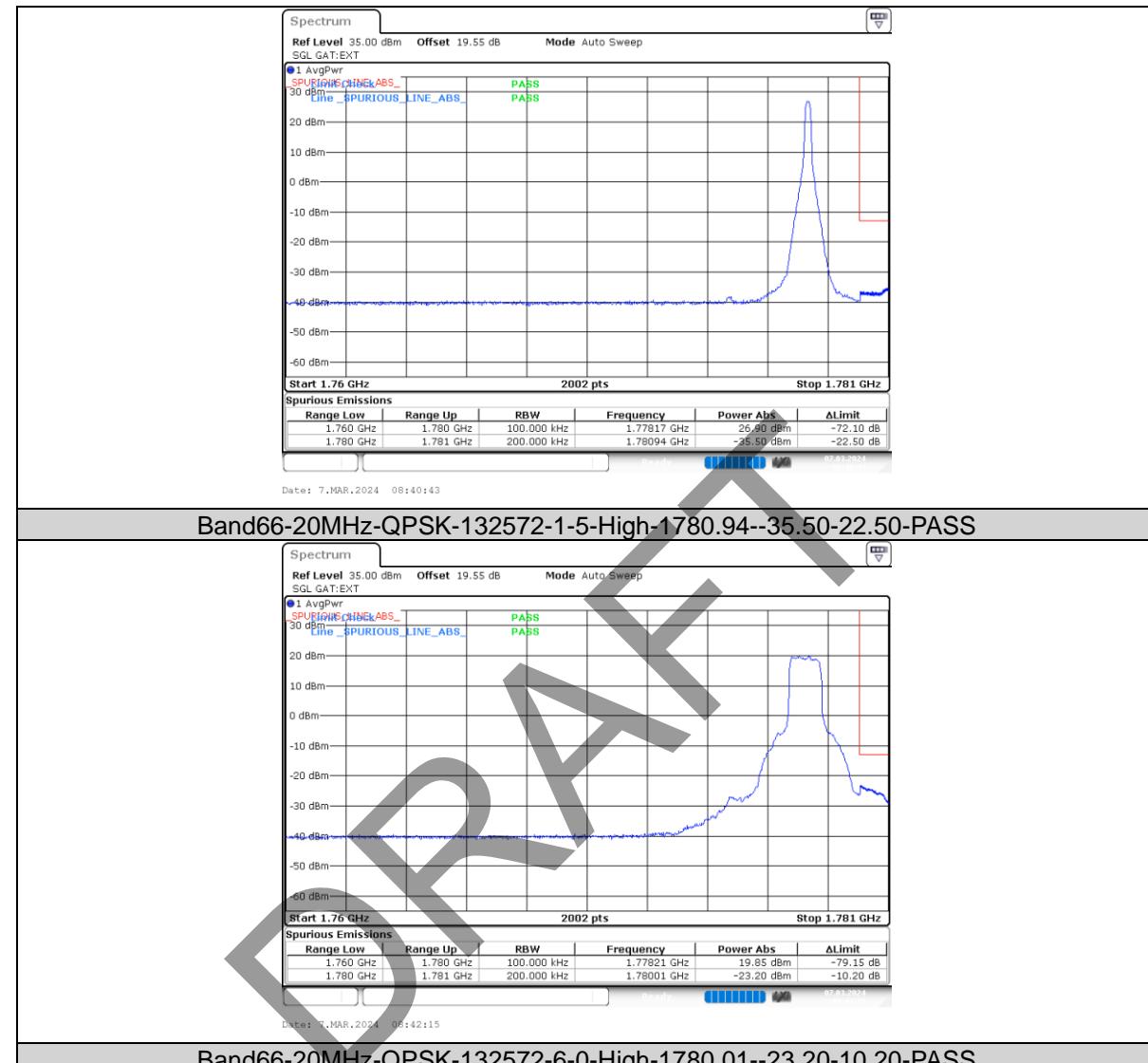


Test Report No.: W7L-P23120015RI04



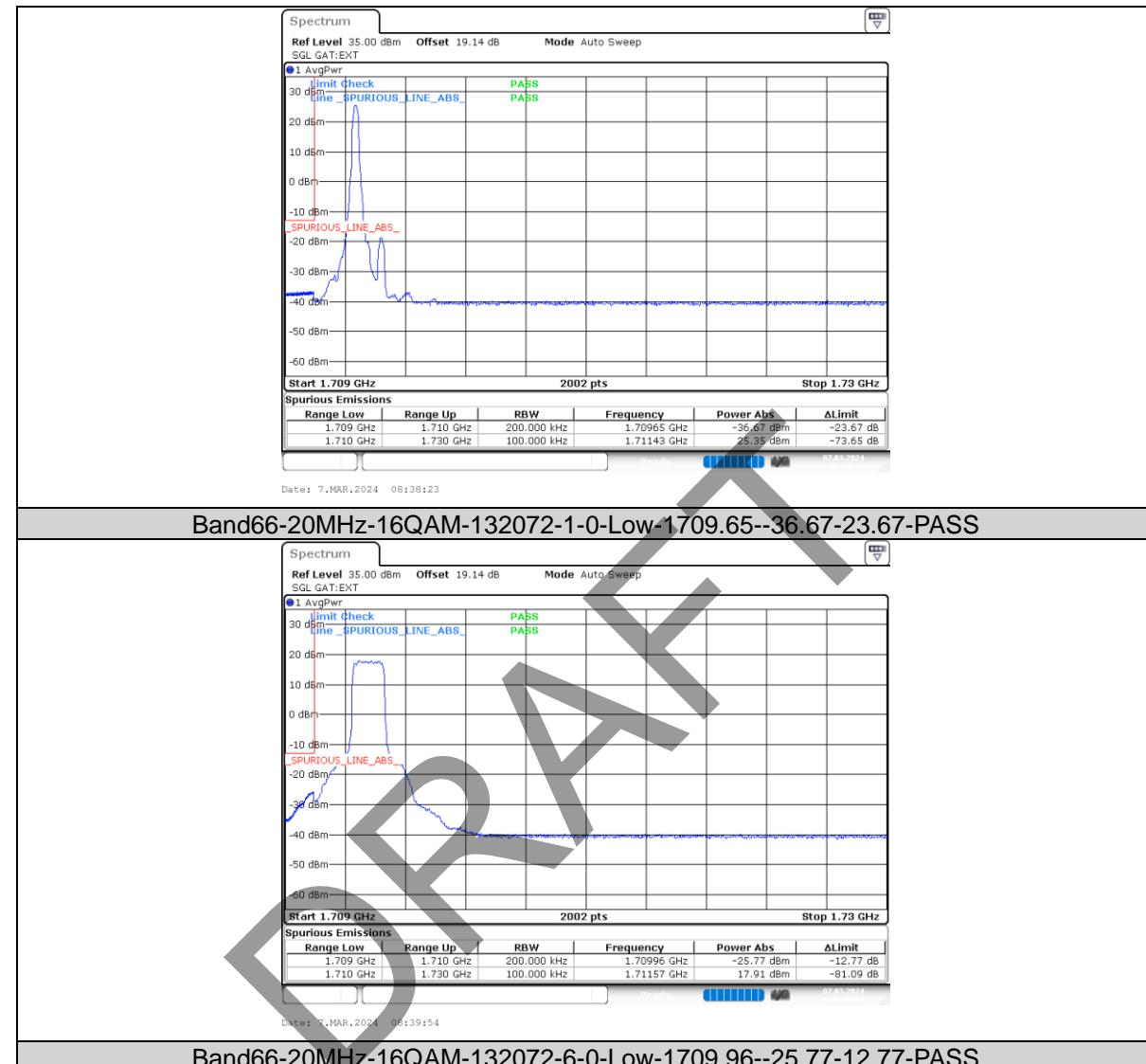


Test Report No.: W7L-P23120015RI04



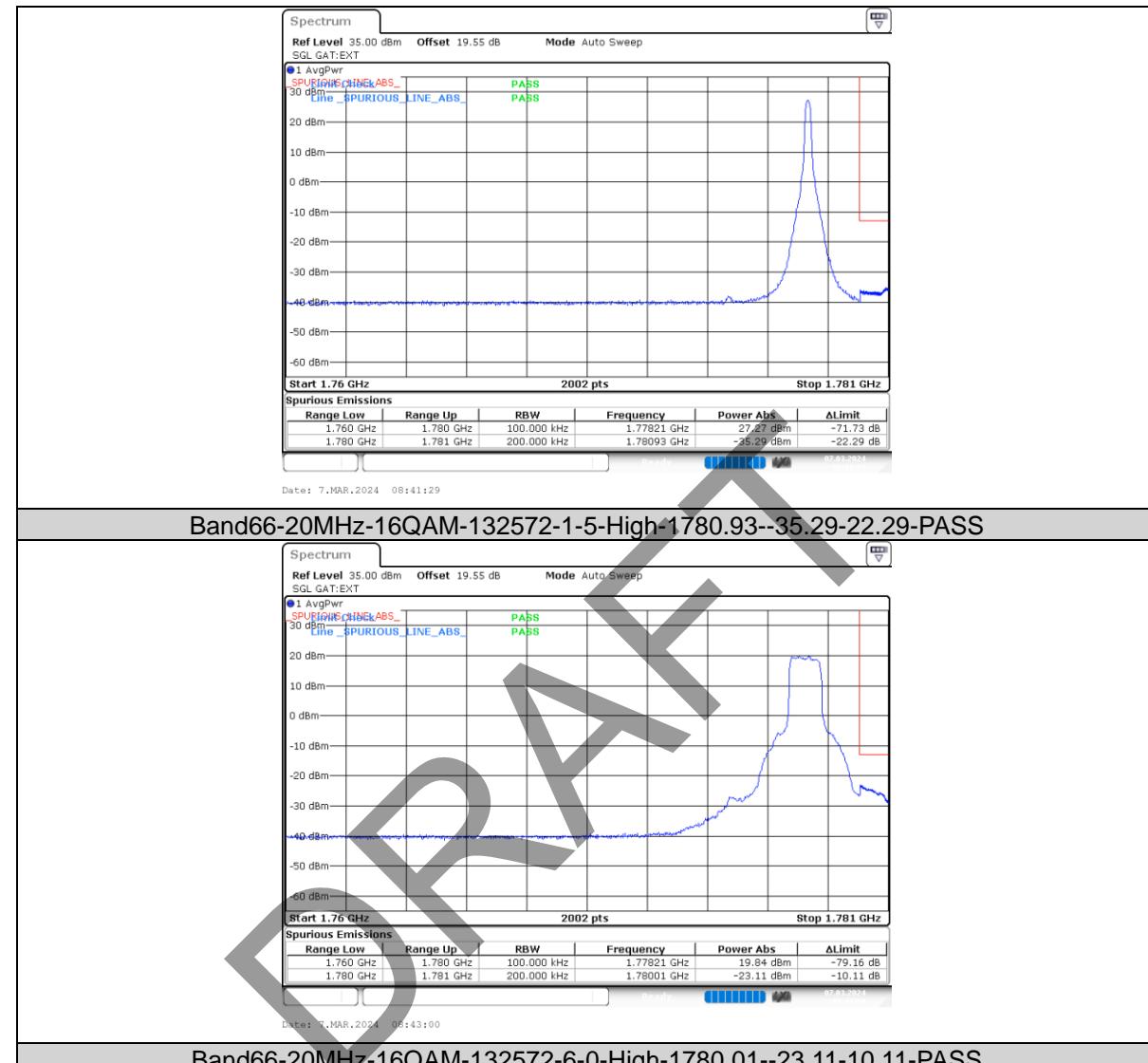


Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

## CONDUCTED SPURIOUS EMISSION FOR M1

### Band 4 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	0.009	0.15	-57.4	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	0.15	30	-39.96	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	30	1000	-24.96	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	1000	5000	-30.06	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	5000	12000	-43.46	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	12000	26500	-38.59	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	0.009	0.15	-59.75	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	0.15	30	-39.24	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	30	1000	-24.78	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	1000	5000	-29.15	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	5000	12000	-43.33	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	12000	26500	-38.38	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	0.009	0.15	-59.15	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	0.15	30	-40.88	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	30	1000	-24.73	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	1000	5000	-29.51	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	5000	12000	-43.27	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	12000	26500	-38.38	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	0.009	0.15	-57.82	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	0.15	30	-39.94	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	30	1000	-24.43	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	1000	5000	-30.19	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	5000	12000	-43.38	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	12000	26500	-38.57	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	0.009	0.15	-59.11	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	0.15	30	-40.05	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	30	1000	-24.13	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	1000	5000	-30.12	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	5000	12000	-43.23	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	12000	26500	-38.27	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	0.009	0.15	-59.83	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	0.15	30	-40.07	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	30	1000	-24.49	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	1000	5000	-29.95	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	5000	12000	-42.91	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	12000	26500	-38.56	PASS
Band4	3MHz	19965	QPSK	1	0	Low	0.009	0.15	-57.79	PASS
Band4	3MHz	19965	QPSK	1	0	Low	0.15	30	-40.61	PASS
Band4	3MHz	19965	QPSK	1	0	Low	30	1000	-24.65	PASS
Band4	3MHz	19965	QPSK	1	0	Low	1000	5000	-30.25	PASS
Band4	3MHz	19965	QPSK	1	0	Low	5000	12000	-43.43	PASS
Band4	3MHz	19965	QPSK	1	0	Low	12000	26500	-38.53	PASS



## Test Report No.: W7L-P23120015RI04

Band4	3MHz	20175	QPSK	1	0	Low	0.009	0.15	-58.54	PASS
Band4	3MHz	20175	QPSK	1	0	Low	0.15	30	-40.91	PASS
Band4	3MHz	20175	QPSK	1	0	Low	30	1000	-24.59	PASS
Band4	3MHz	20175	QPSK	1	0	Low	1000	5000	-29.34	PASS
Band4	3MHz	20175	QPSK	1	0	Low	5000	12000	-43.26	PASS
Band4	3MHz	20175	QPSK	1	0	Low	12000	26500	-38.41	PASS
Band4	3MHz	20385	QPSK	1	0	High	0.009	0.15	-59.35	PASS
Band4	3MHz	20385	QPSK	1	0	High	0.15	30	-39.46	PASS
Band4	3MHz	20385	QPSK	1	0	High	30	1000	-24.28	PASS
Band4	3MHz	20385	QPSK	1	0	High	1000	5000	-29.54	PASS
Band4	3MHz	20385	QPSK	1	0	High	5000	12000	-43.3	PASS
Band4	3MHz	20385	QPSK	1	0	High	12000	26500	-38.63	PASS
Band4	3MHz	19965	16QAM	1	0	Low	0.009	0.15	-57.31	PASS
Band4	3MHz	19965	16QAM	1	0	Low	0.15	30	-39.84	PASS
Band4	3MHz	19965	16QAM	1	0	Low	30	1000	-24.84	PASS
Band4	3MHz	19965	16QAM	1	0	Low	1000	5000	-30.01	PASS
Band4	3MHz	19965	16QAM	1	0	Low	5000	12000	-43.31	PASS
Band4	3MHz	19965	16QAM	1	0	Low	12000	26500	-38.63	PASS
Band4	3MHz	20175	16QAM	1	0	Low	0.009	0.15	-59.98	PASS
Band4	3MHz	20175	16QAM	1	0	Low	0.15	30	-40.39	PASS
Band4	3MHz	20175	16QAM	1	0	Low	30	1000	-23.97	PASS
Band4	3MHz	20175	16QAM	1	0	Low	1000	5000	-29.49	PASS
Band4	3MHz	20175	16QAM	1	0	Low	5000	12000	-42.98	PASS
Band4	3MHz	20175	16QAM	1	0	Low	12000	26500	-38.54	PASS
Band4	3MHz	20385	16QAM	1	0	High	0.009	0.15	-58.3	PASS
Band4	3MHz	20385	16QAM	1	0	High	0.15	30	-41.01	PASS
Band4	3MHz	20385	16QAM	1	0	High	30	1000	-24.4	PASS
Band4	3MHz	20385	16QAM	1	0	High	1000	5000	-29.81	PASS
Band4	3MHz	20385	16QAM	1	0	High	5000	12000	-43.19	PASS
Band4	3MHz	20385	16QAM	1	0	High	12000	26500	-38.5	PASS
Band4	5MHz	19975	QPSK	1	0	Low	0.009	0.15	-57.8	PASS
Band4	5MHz	19975	QPSK	1	0	Low	0.15	30	-41.16	PASS
Band4	5MHz	19975	QPSK	1	0	Low	30	1000	-24.09	PASS
Band4	5MHz	19975	QPSK	1	0	Low	1000	5000	-30.27	PASS
Band4	5MHz	19975	QPSK	1	0	Low	5000	12000	-43.38	PASS
Band4	5MHz	19975	QPSK	1	0	Low	12000	26500	-38.7	PASS
Band4	5MHz	20175	QPSK	1	0	Low	0.009	0.15	-58.83	PASS
Band4	5MHz	20175	QPSK	1	0	Low	0.15	30	-39.98	PASS
Band4	5MHz	20175	QPSK	1	0	Low	30	1000	-24.5	PASS
Band4	5MHz	20175	QPSK	1	0	Low	1000	5000	-29.45	PASS
Band4	5MHz	20175	QPSK	1	0	Low	5000	12000	-43.27	PASS
Band4	5MHz	20175	QPSK	1	0	Low	12000	26500	-38.46	PASS
Band4	5MHz	20375	QPSK	1	0	High	0.009	0.15	-60.41	PASS
Band4	5MHz	20375	QPSK	1	0	High	0.15	30	-39.04	PASS
Band4	5MHz	20375	QPSK	1	0	High	30	1000	-25.1	PASS
Band4	5MHz	20375	QPSK	1	0	High	1000	5000	-30.19	PASS
Band4	5MHz	20375	QPSK	1	0	High	5000	12000	-43.26	PASS
Band4	5MHz	20375	QPSK	1	0	High	12000	26500	-38.51	PASS
Band4	5MHz	19975	16QAM	1	0	Low	0.009	0.15	-56.26	PASS
Band4	5MHz	19975	16QAM	1	0	Low	0.15	30	-41.03	PASS
Band4	5MHz	19975	16QAM	1	0	Low	30	1000	-24.53	PASS
Band4	5MHz	19975	16QAM	1	0	Low	1000	5000	-30.33	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	5MHz	19975	16QAM	1	0	Low	5000	12000	-43.48	PASS
Band4	5MHz	19975	16QAM	1	0	Low	12000	26500	-38.58	PASS
Band4	5MHz	20175	16QAM	1	0	Low	0.009	0.15	-58.56	PASS
Band4	5MHz	20175	16QAM	1	0	Low	0.15	30	-40.88	PASS
Band4	5MHz	20175	16QAM	1	0	Low	30	1000	-23.46	PASS
Band4	5MHz	20175	16QAM	1	0	Low	1000	5000	-29.09	PASS
Band4	5MHz	20175	16QAM	1	0	Low	5000	12000	-43.27	PASS
Band4	5MHz	20175	16QAM	1	0	Low	12000	26500	-38.57	PASS
Band4	5MHz	20375	16QAM	1	0	High	0.009	0.15	-57.91	PASS
Band4	5MHz	20375	16QAM	1	0	High	0.15	30	-40.59	PASS
Band4	5MHz	20375	16QAM	1	0	High	30	1000	-24.21	PASS
Band4	5MHz	20375	16QAM	1	0	High	1000	5000	-29.1	PASS
Band4	5MHz	20375	16QAM	1	0	High	5000	12000	-43.42	PASS
Band4	5MHz	20375	16QAM	1	0	High	12000	26500	-38.59	PASS
Band4	10MHz	20000	QPSK	1	0	Low	0.009	0.15	-57.25	PASS
Band4	10MHz	20000	QPSK	1	0	Low	0.15	30	-40.64	PASS
Band4	10MHz	20000	QPSK	1	0	Low	30	1000	-24.6	PASS
Band4	10MHz	20000	QPSK	1	0	Low	1000	5000	-30.14	PASS
Band4	10MHz	20000	QPSK	1	0	Low	5000	12000	-43.36	PASS
Band4	10MHz	20000	QPSK	1	0	Low	12000	26500	-38.78	PASS
Band4	10MHz	20175	QPSK	1	0	Low	0.009	0.15	-59.15	PASS
Band4	10MHz	20175	QPSK	1	0	Low	0.15	30	-40.76	PASS
Band4	10MHz	20175	QPSK	1	0	Low	30	1000	-24.12	PASS
Band4	10MHz	20175	QPSK	1	0	Low	1000	5000	-29.74	PASS
Band4	10MHz	20175	QPSK	1	0	Low	5000	12000	-43.37	PASS
Band4	10MHz	20175	QPSK	1	0	Low	12000	26500	-38.61	PASS
Band4	10MHz	20350	QPSK	1	0	High	0.009	0.15	-59.32	PASS
Band4	10MHz	20350	QPSK	1	0	High	0.15	30	-40.27	PASS
Band4	10MHz	20350	QPSK	1	0	High	30	1000	-24.62	PASS
Band4	10MHz	20350	QPSK	1	0	High	1000	5000	-29.18	PASS
Band4	10MHz	20350	QPSK	1	0	High	5000	12000	-43.2	PASS
Band4	10MHz	20350	QPSK	1	0	High	12000	26500	-38.45	PASS
Band4	10MHz	20000	16QAM	1	0	Low	0.009	0.15	-56.84	PASS
Band4	10MHz	20000	16QAM	1	0	Low	0.15	30	-40.01	PASS
Band4	10MHz	20000	16QAM	1	0	Low	30	1000	-24.94	PASS
Band4	10MHz	20000	16QAM	1	0	Low	1000	5000	-30.22	PASS
Band4	10MHz	20000	16QAM	1	0	Low	5000	12000	-43.38	PASS
Band4	10MHz	20000	16QAM	1	0	Low	12000	26500	-38.69	PASS
Band4	10MHz	20175	16QAM	1	0	Low	0.009	0.15	-58.33	PASS
Band4	10MHz	20175	16QAM	1	0	Low	0.15	30	-40.29	PASS
Band4	10MHz	20175	16QAM	1	0	Low	30	1000	-24.5	PASS
Band4	10MHz	20175	16QAM	1	0	Low	1000	5000	-29.29	PASS
Band4	10MHz	20175	16QAM	1	0	Low	5000	12000	-43.44	PASS
Band4	10MHz	20175	16QAM	1	0	Low	12000	26500	-38.33	PASS
Band4	10MHz	20350	16QAM	1	0	High	0.009	0.15	-58.74	PASS
Band4	10MHz	20350	16QAM	1	0	High	0.15	30	-40.21	PASS
Band4	10MHz	20350	16QAM	1	0	High	30	1000	-24.36	PASS
Band4	10MHz	20350	16QAM	1	0	High	1000	5000	-29.36	PASS
Band4	10MHz	20350	16QAM	1	0	High	5000	12000	-43.28	PASS
Band4	10MHz	20350	16QAM	1	0	High	12000	26500	-38.72	PASS
Band4	15MHz	20025	QPSK	1	0	Low	0.009	0.15	-57.77	PASS
Band4	15MHz	20025	QPSK	1	0	Low	0.15	30	-40.61	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	15MHz	20025	QPSK	1	0	Low	30	1000	-24.6	PASS
Band4	15MHz	20025	QPSK	1	0	Low	1000	5000	-30.28	PASS
Band4	15MHz	20025	QPSK	1	0	Low	5000	12000	-43.45	PASS
Band4	15MHz	20025	QPSK	1	0	Low	12000	26500	-38.64	PASS
Band4	15MHz	20175	QPSK	1	0	Low	0.009	0.15	-58.66	PASS
Band4	15MHz	20175	QPSK	1	0	Low	0.15	30	-39.54	PASS
Band4	15MHz	20175	QPSK	1	0	Low	30	1000	-24.54	PASS
Band4	15MHz	20175	QPSK	1	0	Low	1000	5000	-29.66	PASS
Band4	15MHz	20175	QPSK	1	0	Low	5000	12000	-43.31	PASS
Band4	15MHz	20175	QPSK	1	0	Low	12000	26500	-38.57	PASS
Band4	15MHz	20325	QPSK	1	0	High	0.009	0.15	-59.64	PASS
Band4	15MHz	20325	QPSK	1	0	High	0.15	30	-40.34	PASS
Band4	15MHz	20325	QPSK	1	0	High	30	1000	-24.67	PASS
Band4	15MHz	20325	QPSK	1	0	High	1000	5000	-30.08	PASS
Band4	15MHz	20325	QPSK	1	0	High	5000	12000	-43.43	PASS
Band4	15MHz	20325	QPSK	1	0	High	12000	26500	-38.68	PASS
Band4	15MHz	20025	16QAM	1	0	Low	0.009	0.15	-57.17	PASS
Band4	15MHz	20025	16QAM	1	0	Low	0.15	30	-40.2	PASS
Band4	15MHz	20025	16QAM	1	0	Low	30	1000	-24.15	PASS
Band4	15MHz	20025	16QAM	1	0	Low	1000	5000	-30.33	PASS
Band4	15MHz	20025	16QAM	1	0	Low	5000	12000	-43.37	PASS
Band4	15MHz	20025	16QAM	1	0	Low	12000	26500	-38.69	PASS
Band4	15MHz	20175	16QAM	1	0	Low	0.009	0.15	-58.4	PASS
Band4	15MHz	20175	16QAM	1	0	Low	0.15	30	-40.48	PASS
Band4	15MHz	20175	16QAM	1	0	Low	30	1000	-24.84	PASS
Band4	15MHz	20175	16QAM	1	0	Low	1000	5000	-30.22	PASS
Band4	15MHz	20175	16QAM	1	0	Low	5000	12000	-43.15	PASS
Band4	15MHz	20175	16QAM	1	0	Low	12000	26500	-38.6	PASS
Band4	15MHz	20325	16QAM	1	0	High	0.009	0.15	-58.41	PASS
Band4	15MHz	20325	16QAM	1	0	High	0.15	30	-40.72	PASS
Band4	15MHz	20325	16QAM	1	0	High	30	1000	-24.92	PASS
Band4	15MHz	20325	16QAM	1	0	High	1000	5000	-29.34	PASS
Band4	15MHz	20325	16QAM	1	0	High	5000	12000	-43.36	PASS
Band4	15MHz	20325	16QAM	1	0	High	12000	26500	-38.66	PASS
Band4	20MHz	20050	QPSK	1	0	Low	0.009	0.15	-57.25	PASS
Band4	20MHz	20050	QPSK	1	0	Low	0.15	30	-40.82	PASS
Band4	20MHz	20050	QPSK	1	0	Low	30	1000	-24.91	PASS
Band4	20MHz	20050	QPSK	1	0	Low	1000	5000	-30.18	PASS
Band4	20MHz	20050	QPSK	1	0	Low	5000	12000	-43.38	PASS
Band4	20MHz	20050	QPSK	1	0	Low	12000	26500	-38.5	PASS
Band4	20MHz	20175	QPSK	1	0	Low	0.009	0.15	-59.32	PASS
Band4	20MHz	20175	QPSK	1	0	Low	0.15	30	-40.11	PASS
Band4	20MHz	20175	QPSK	1	0	Low	30	1000	-24.76	PASS
Band4	20MHz	20175	QPSK	1	0	Low	1000	5000	-29.78	PASS
Band4	20MHz	20175	QPSK	1	0	Low	5000	12000	-43.36	PASS
Band4	20MHz	20175	QPSK	1	0	Low	12000	26500	-38.69	PASS
Band4	20MHz	20300	QPSK	1	0	High	0.009	0.15	-59.22	PASS
Band4	20MHz	20300	QPSK	1	0	High	0.15	30	-39.22	PASS
Band4	20MHz	20300	QPSK	1	0	High	30	1000	-24.2	PASS
Band4	20MHz	20300	QPSK	1	0	High	1000	5000	-29.46	PASS
Band4	20MHz	20300	QPSK	1	0	High	5000	12000	-43.46	PASS
Band4	20MHz	20300	QPSK	1	0	High	12000	26500	-38.63	PASS

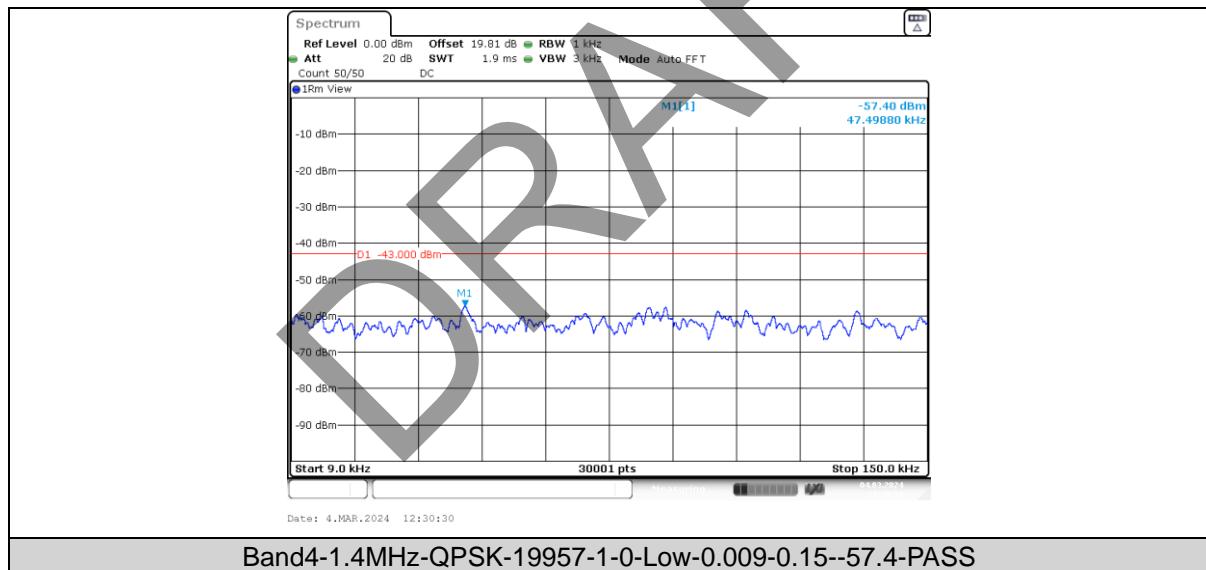


Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

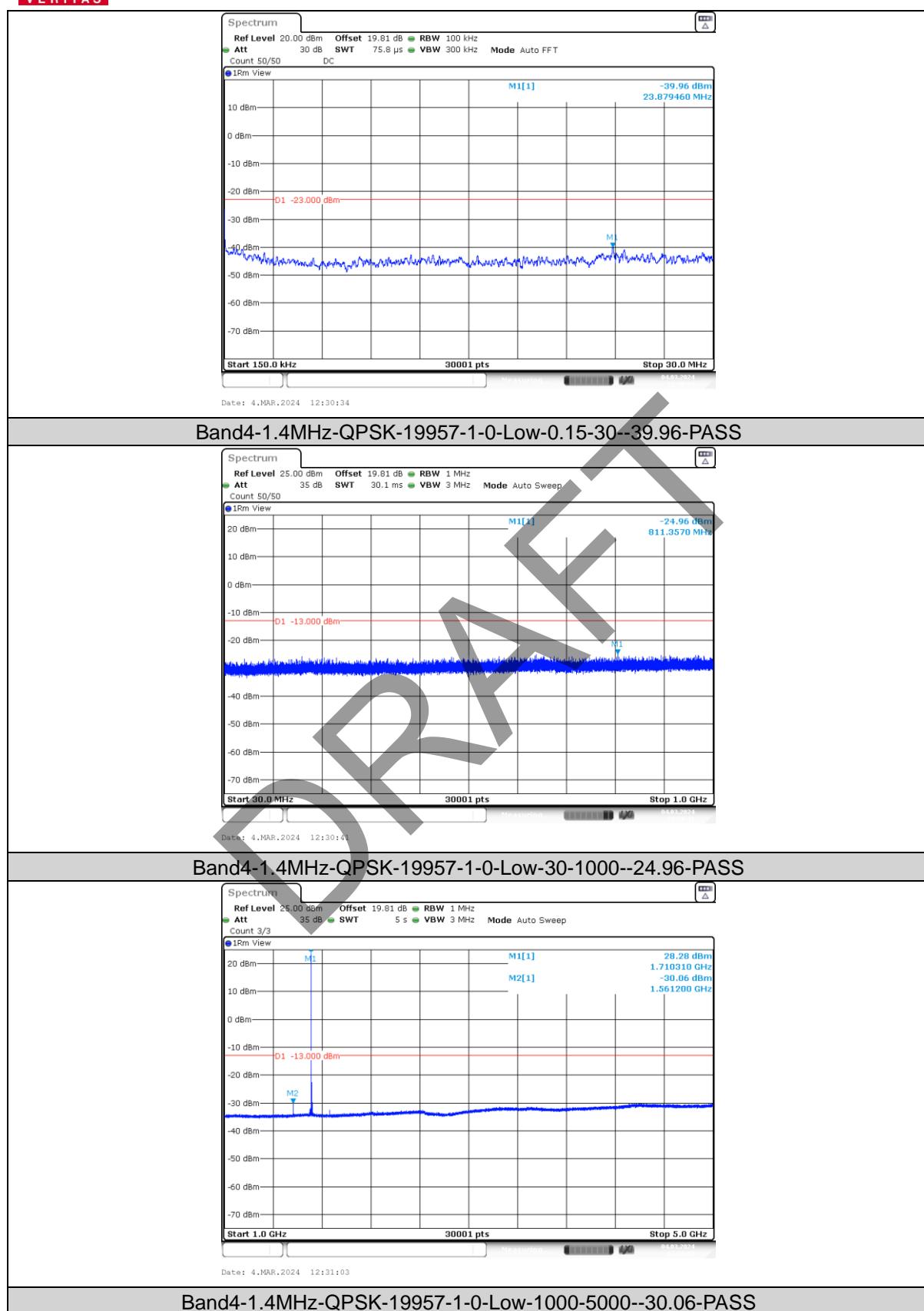
Band4	20MHz	20050	16QAM	1	0	Low	0.009	0.15	-57.05	PASS
Band4	20MHz	20050	16QAM	1	0	Low	0.15	30	-40.89	PASS
Band4	20MHz	20050	16QAM	1	0	Low	30	1000	-24.24	PASS
Band4	20MHz	20050	16QAM	1	0	Low	1000	5000	-30.17	PASS
Band4	20MHz	20050	16QAM	1	0	Low	5000	12000	-43.49	PASS
Band4	20MHz	20050	16QAM	1	0	Low	12000	26500	-38.57	PASS
Band4	20MHz	20175	16QAM	1	0	Low	0.009	0.15	-58.48	PASS
Band4	20MHz	20175	16QAM	1	0	Low	0.15	30	-39.27	PASS
Band4	20MHz	20175	16QAM	1	0	Low	30	1000	-24.25	PASS
Band4	20MHz	20175	16QAM	1	0	Low	1000	5000	-29.71	PASS
Band4	20MHz	20175	16QAM	1	0	Low	5000	12000	-43.29	PASS
Band4	20MHz	20175	16QAM	1	0	Low	12000	26500	-38.66	PASS
Band4	20MHz	20300	16QAM	1	0	High	0.009	0.15	-58.14	PASS
Band4	20MHz	20300	16QAM	1	0	High	0.15	30	-39.4	PASS
Band4	20MHz	20300	16QAM	1	0	High	30	1000	-24.7	PASS
Band4	20MHz	20300	16QAM	1	0	High	1000	5000	-30.2	PASS
Band4	20MHz	20300	16QAM	1	0	High	5000	12000	-43.47	PASS
Band4	20MHz	20300	16QAM	1	0	High	12000	26500	-38.61	PASS

## Band 4 Test Graphs



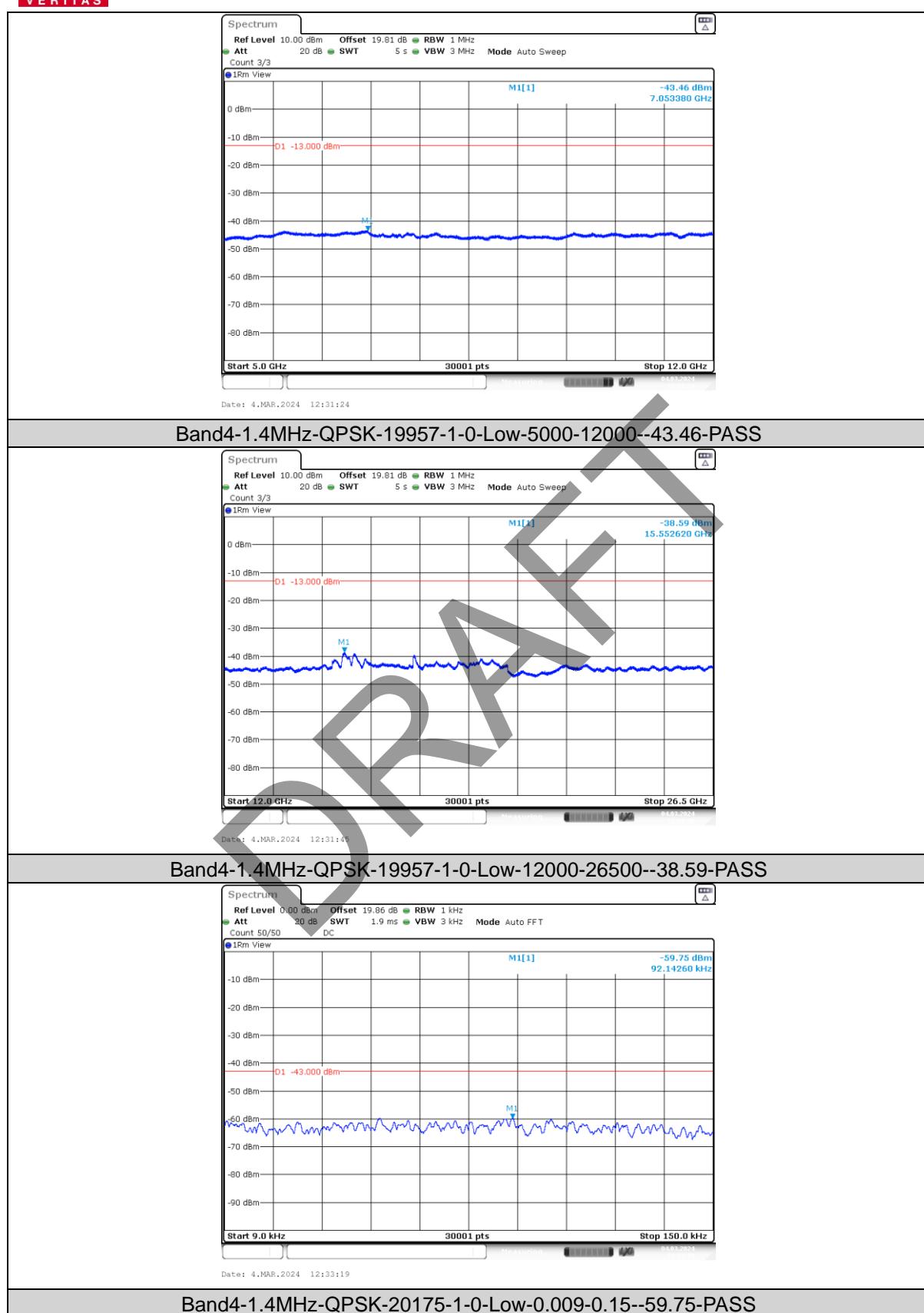


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



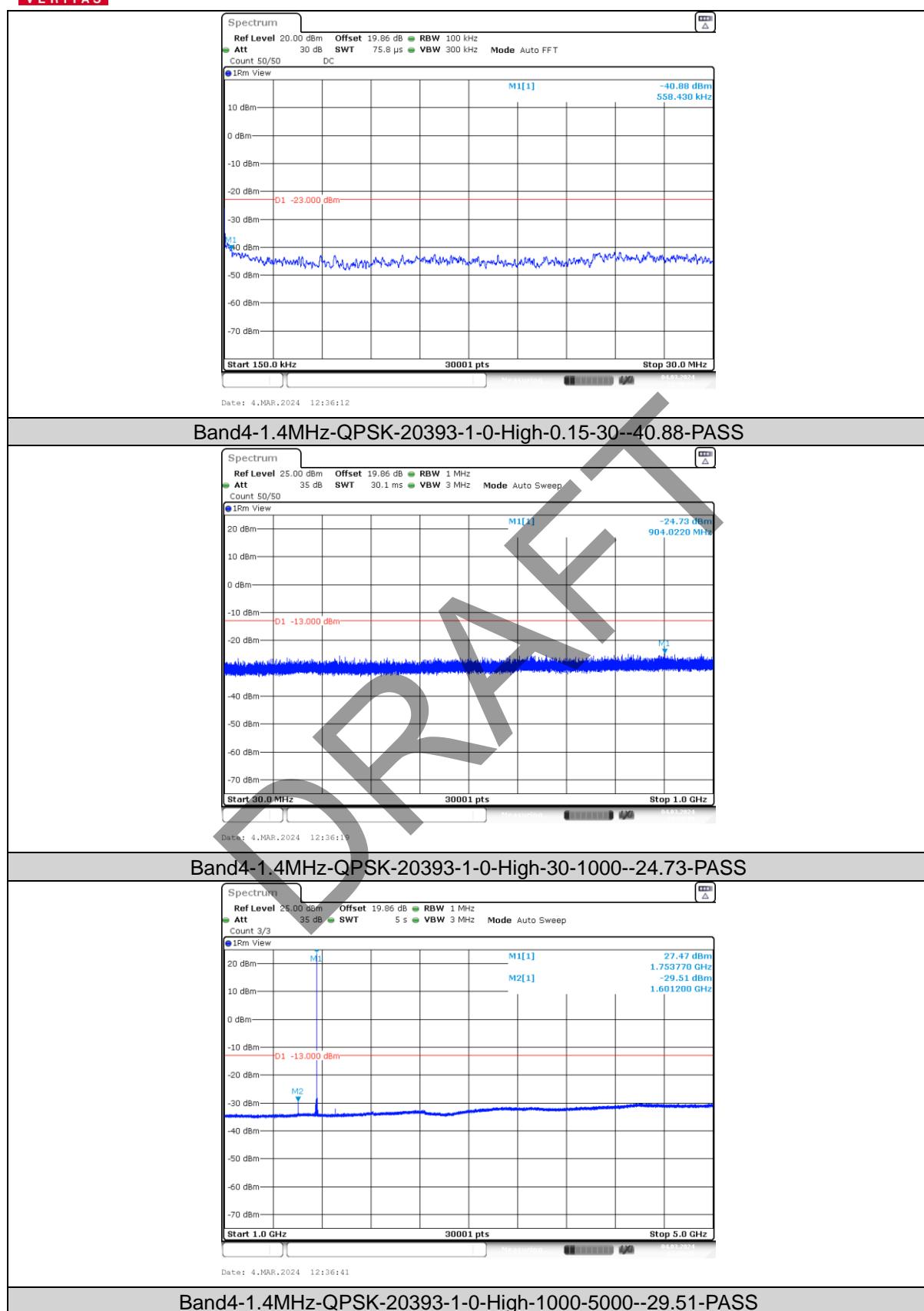
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



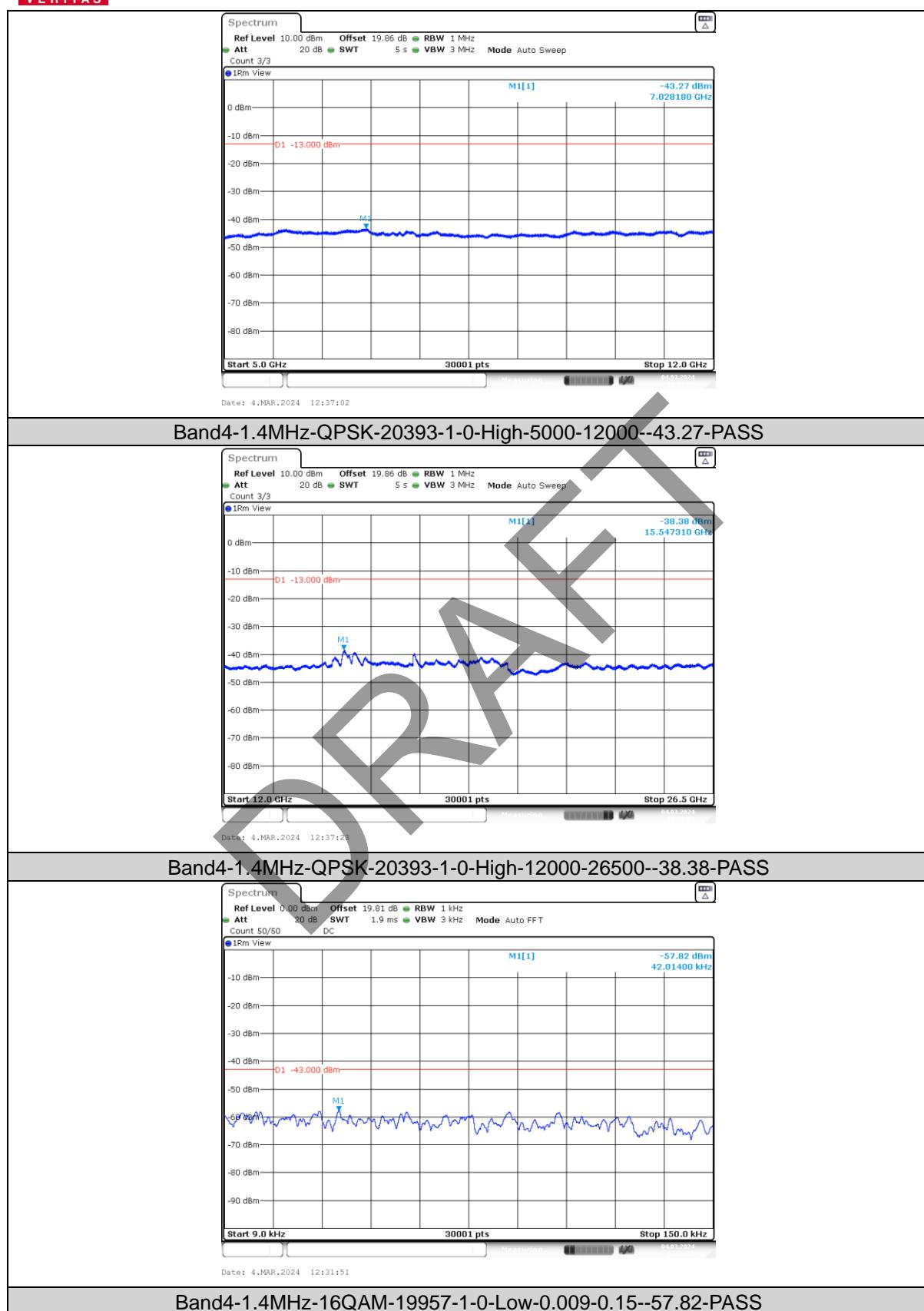
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



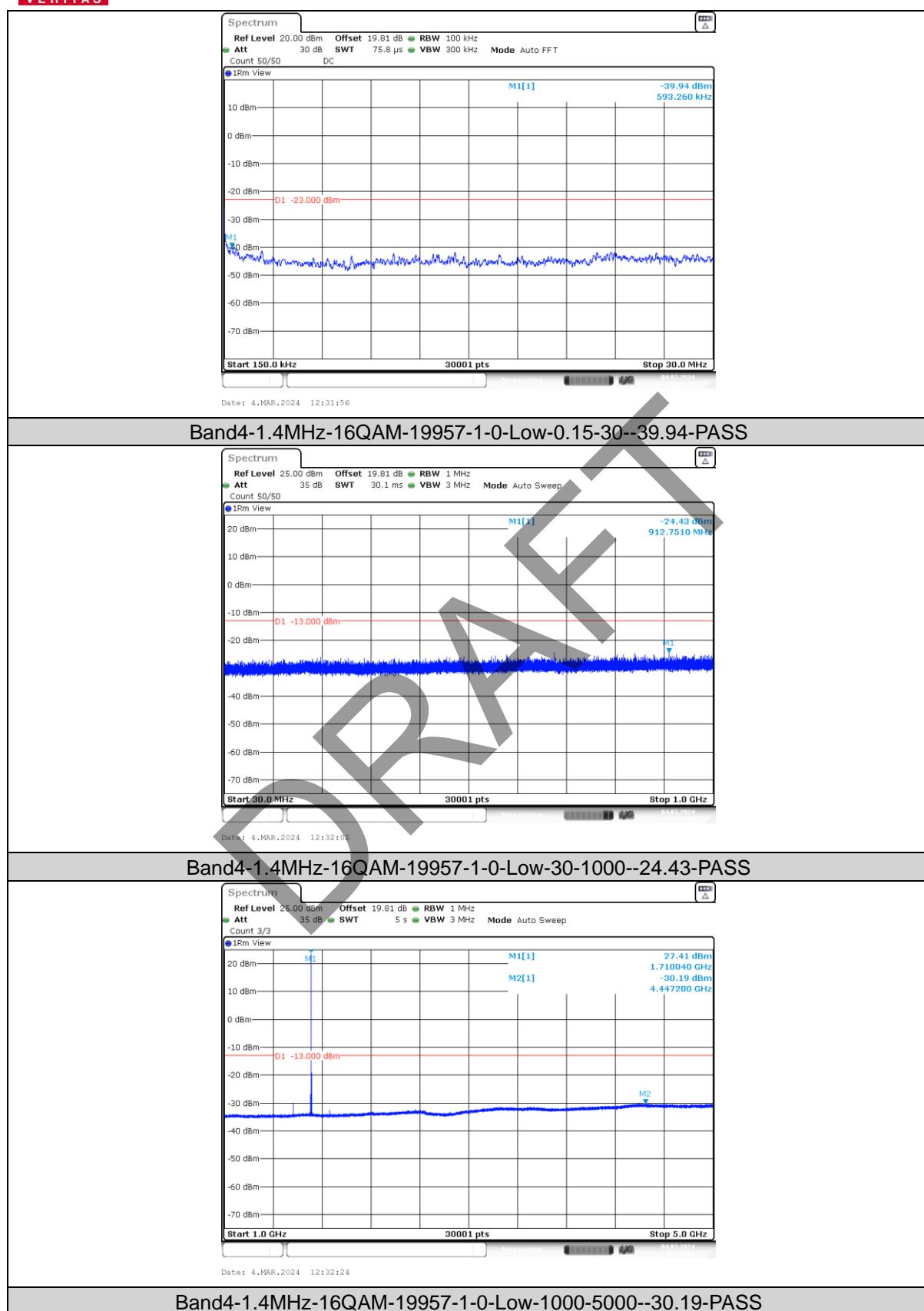
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



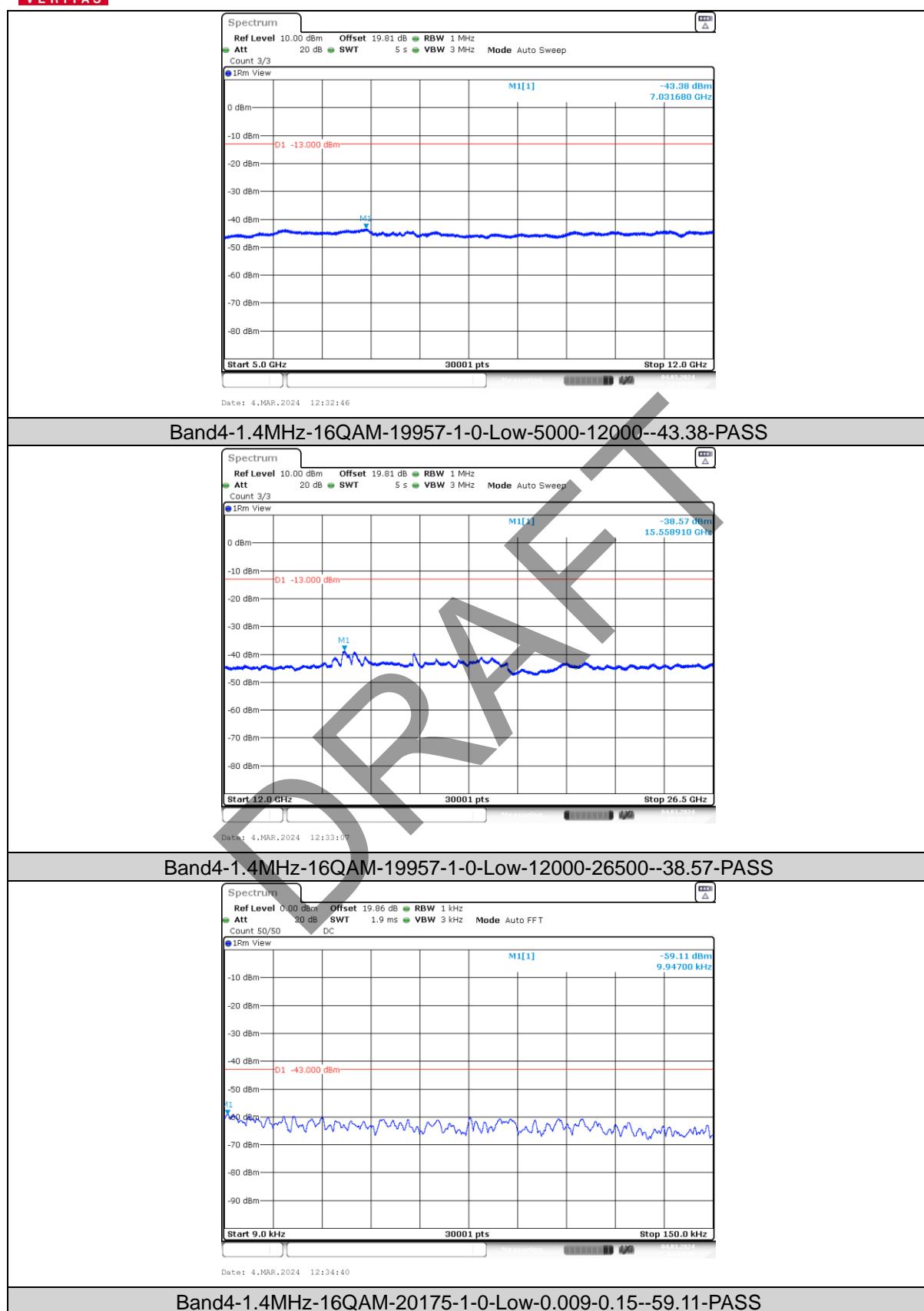
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



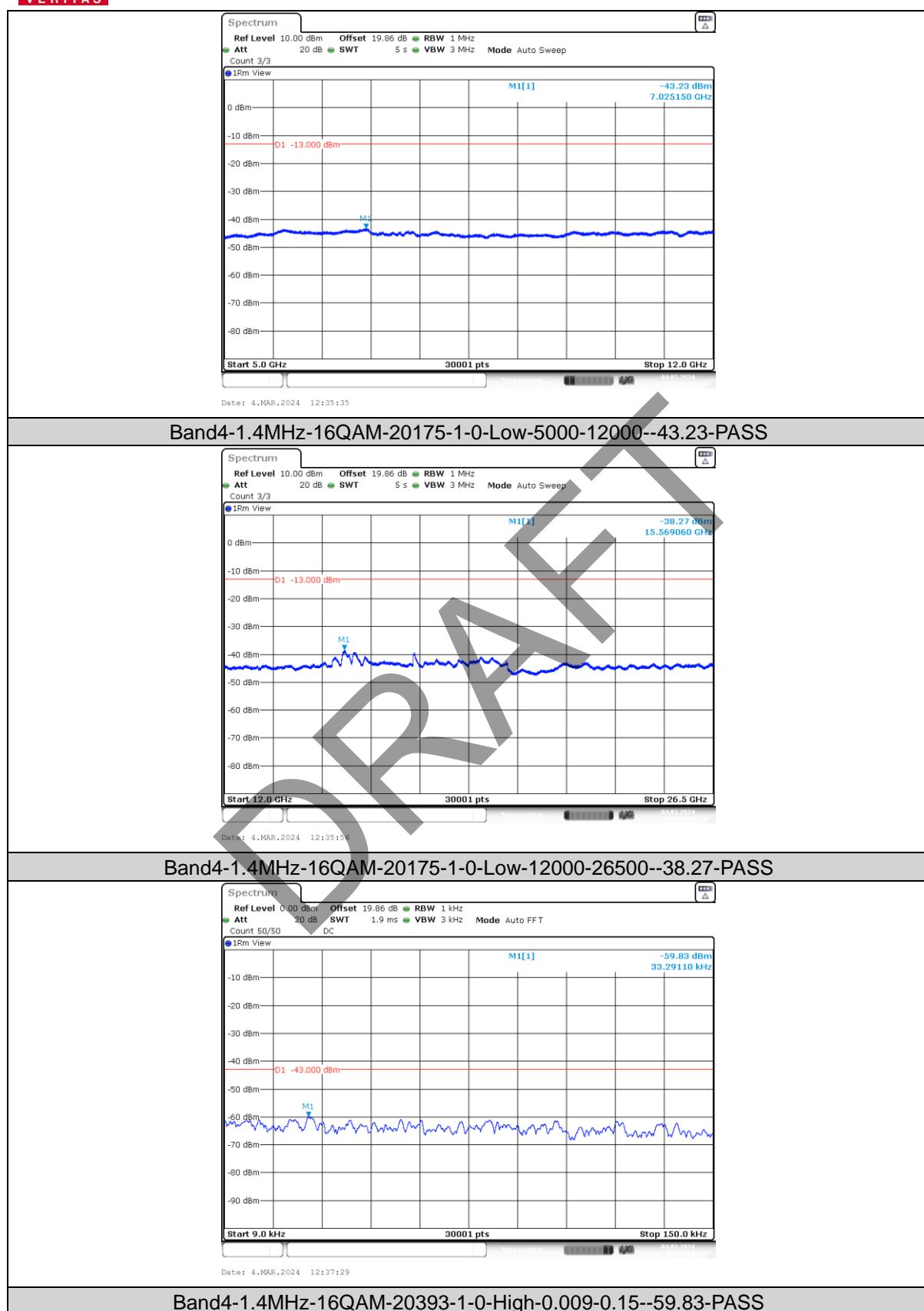
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



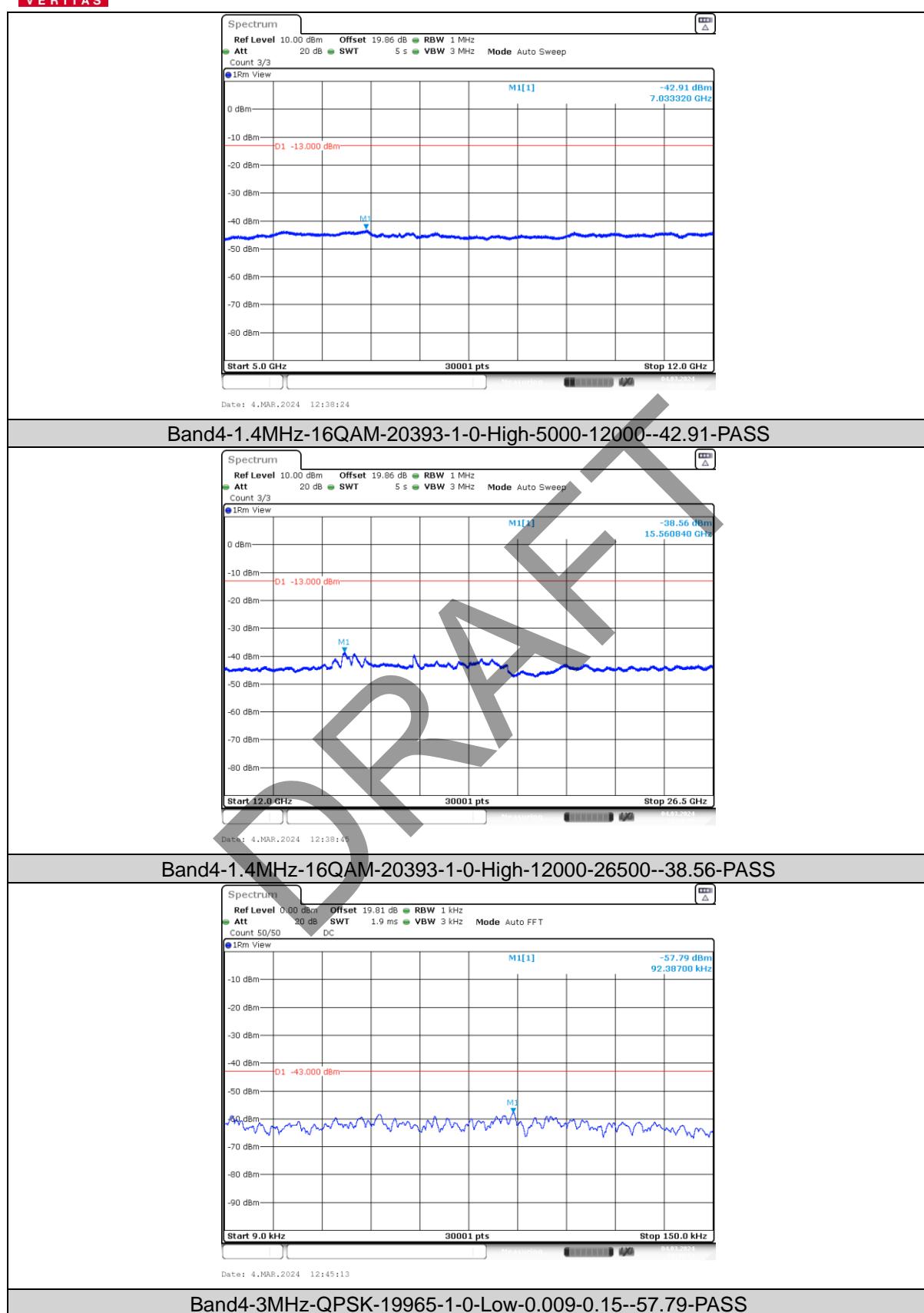
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



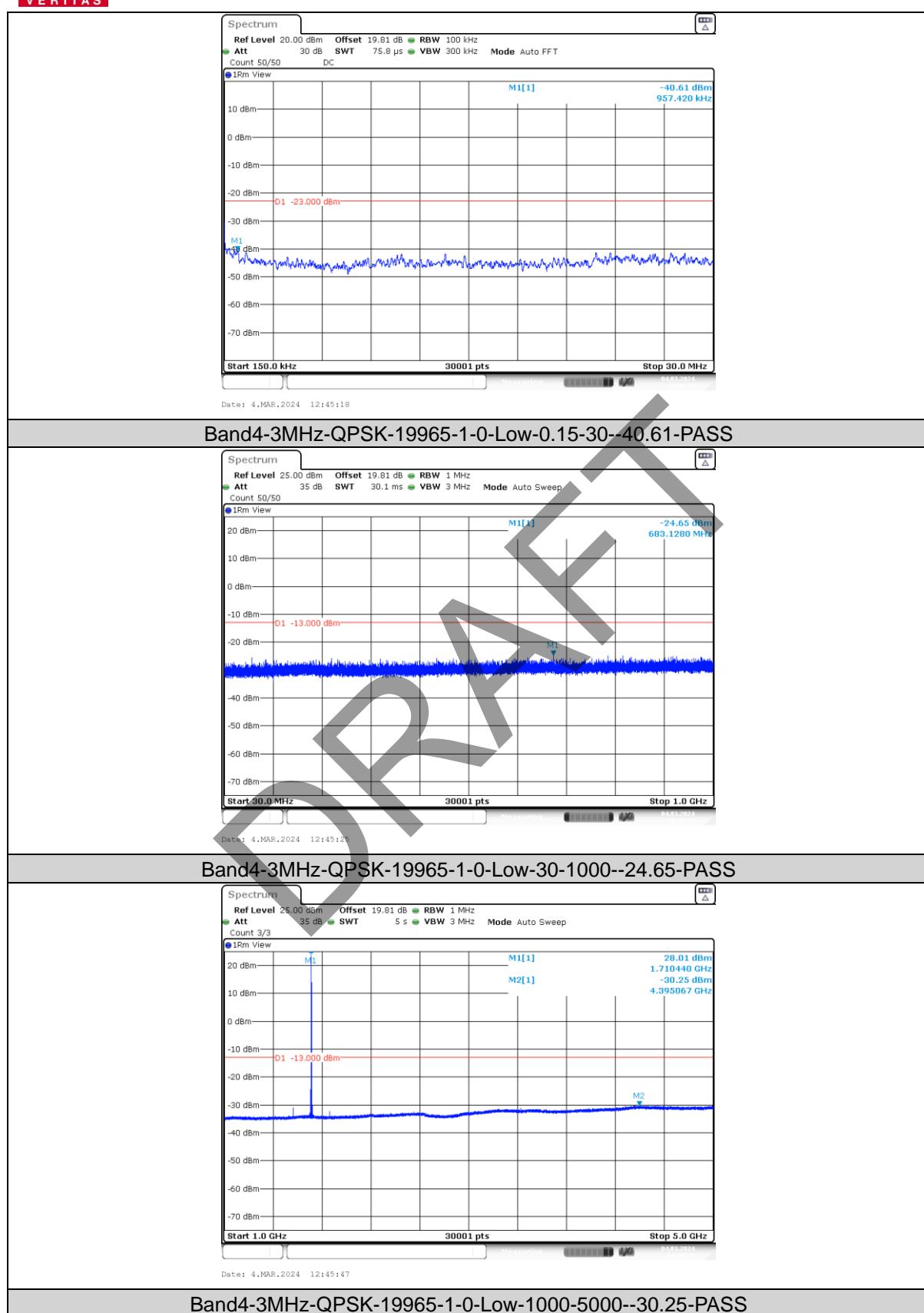
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

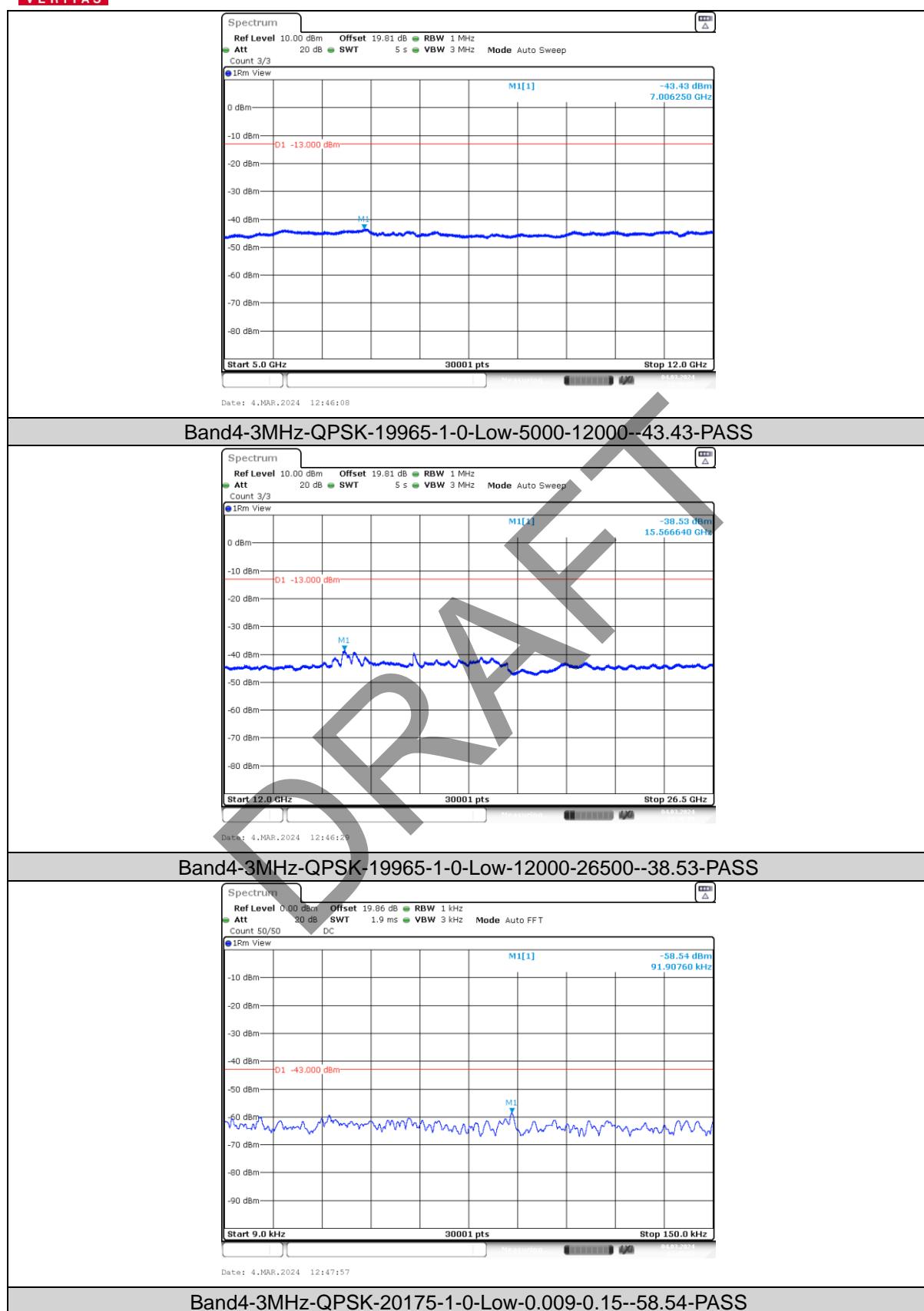


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



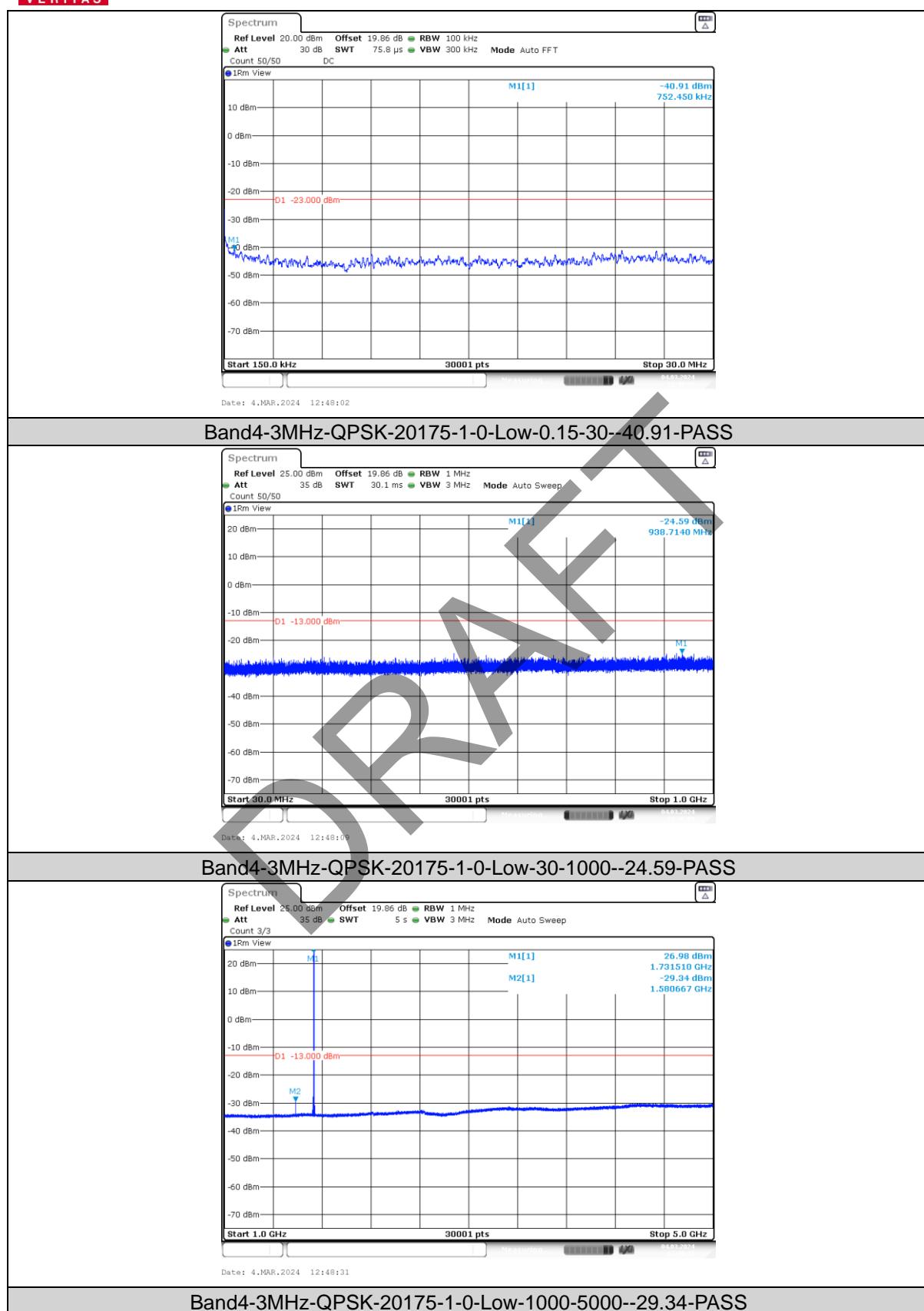
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



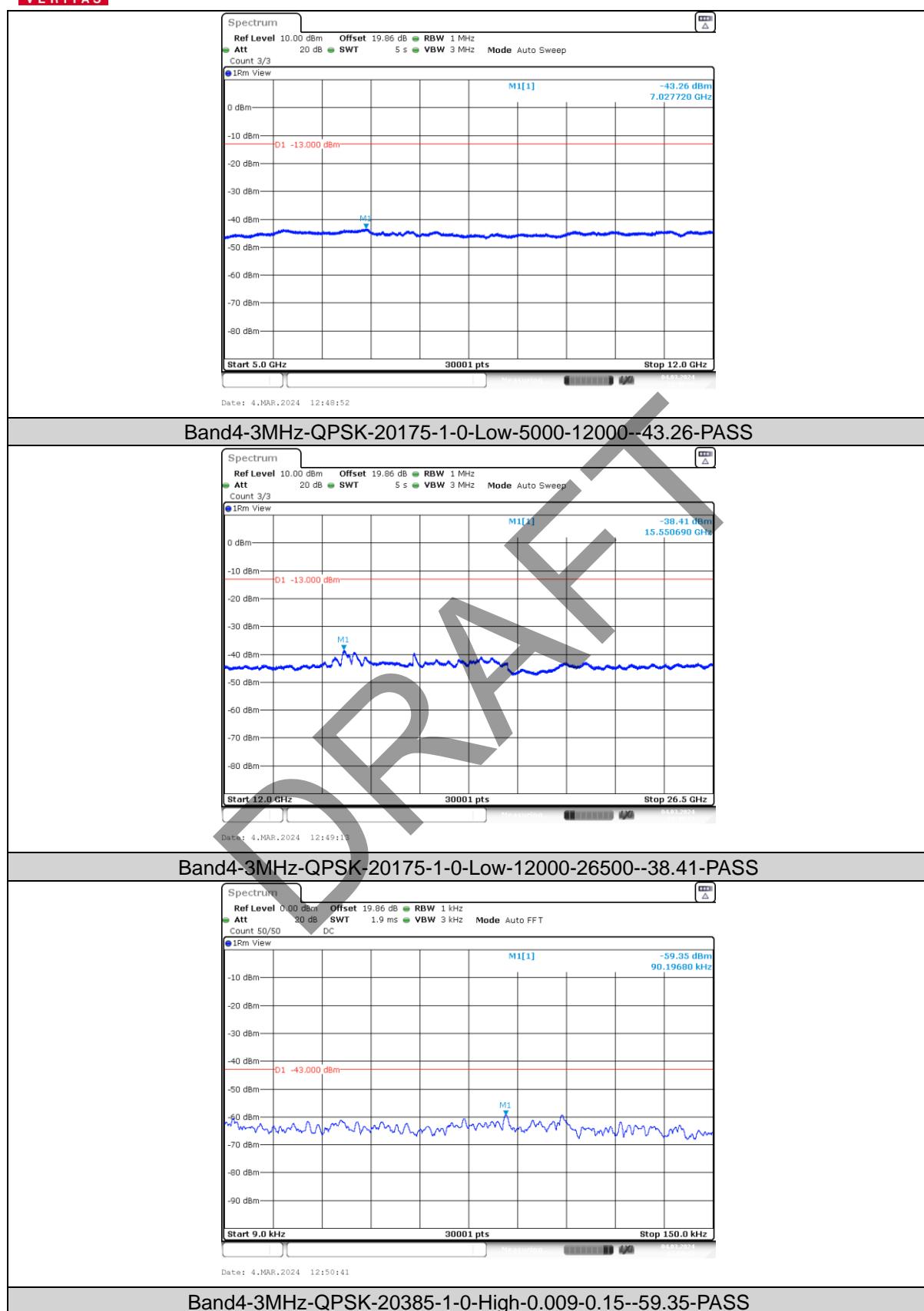
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



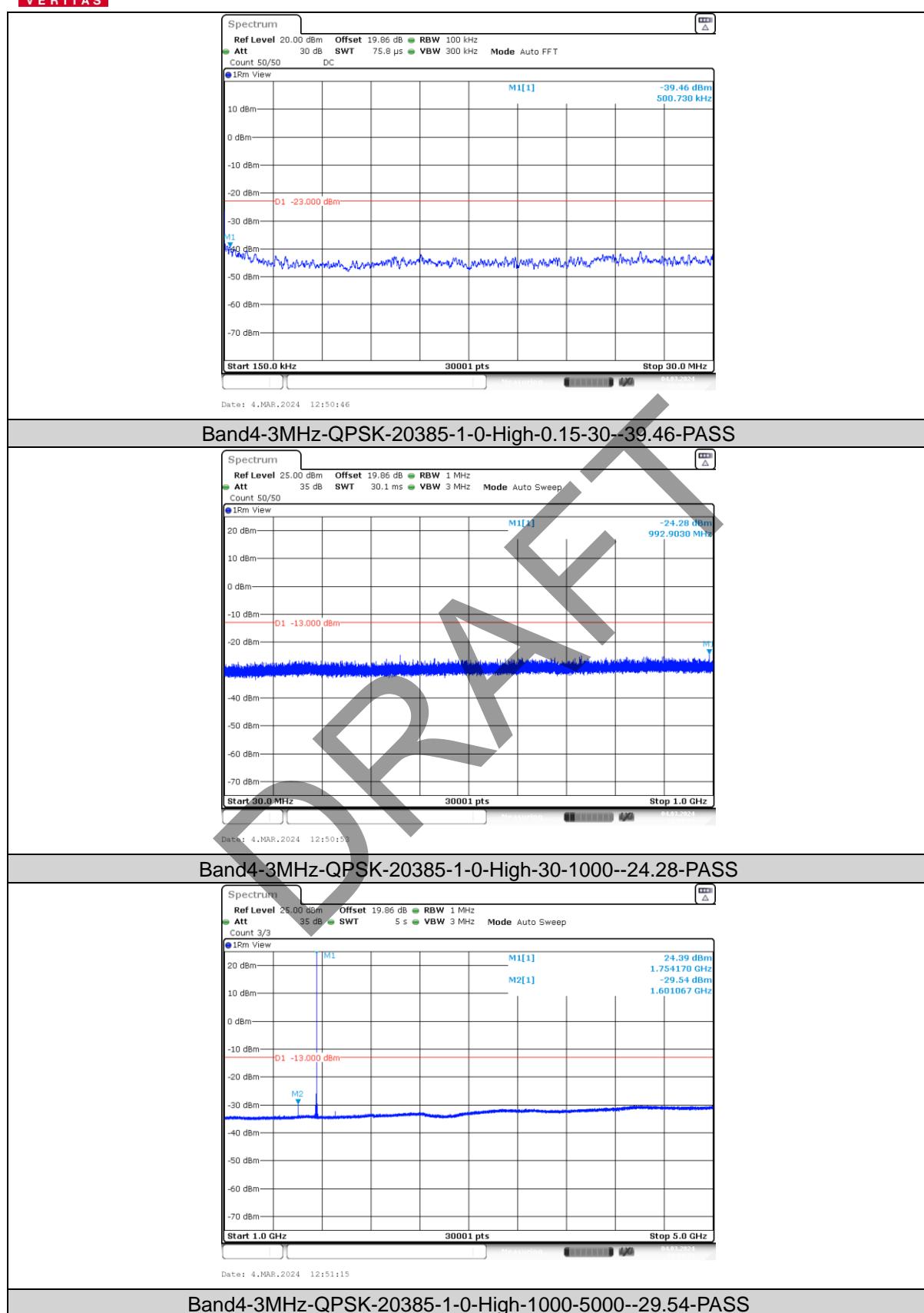
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



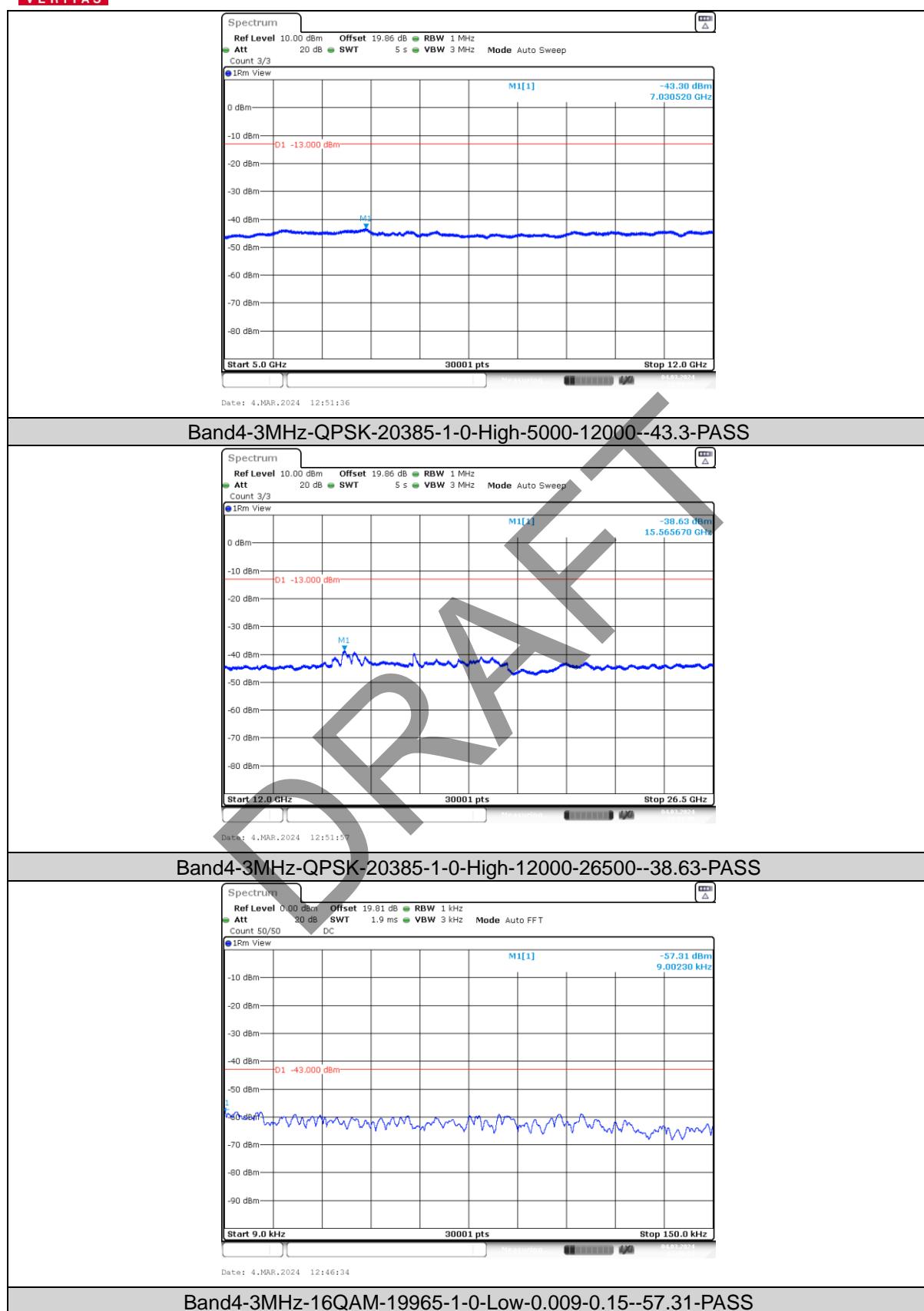
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



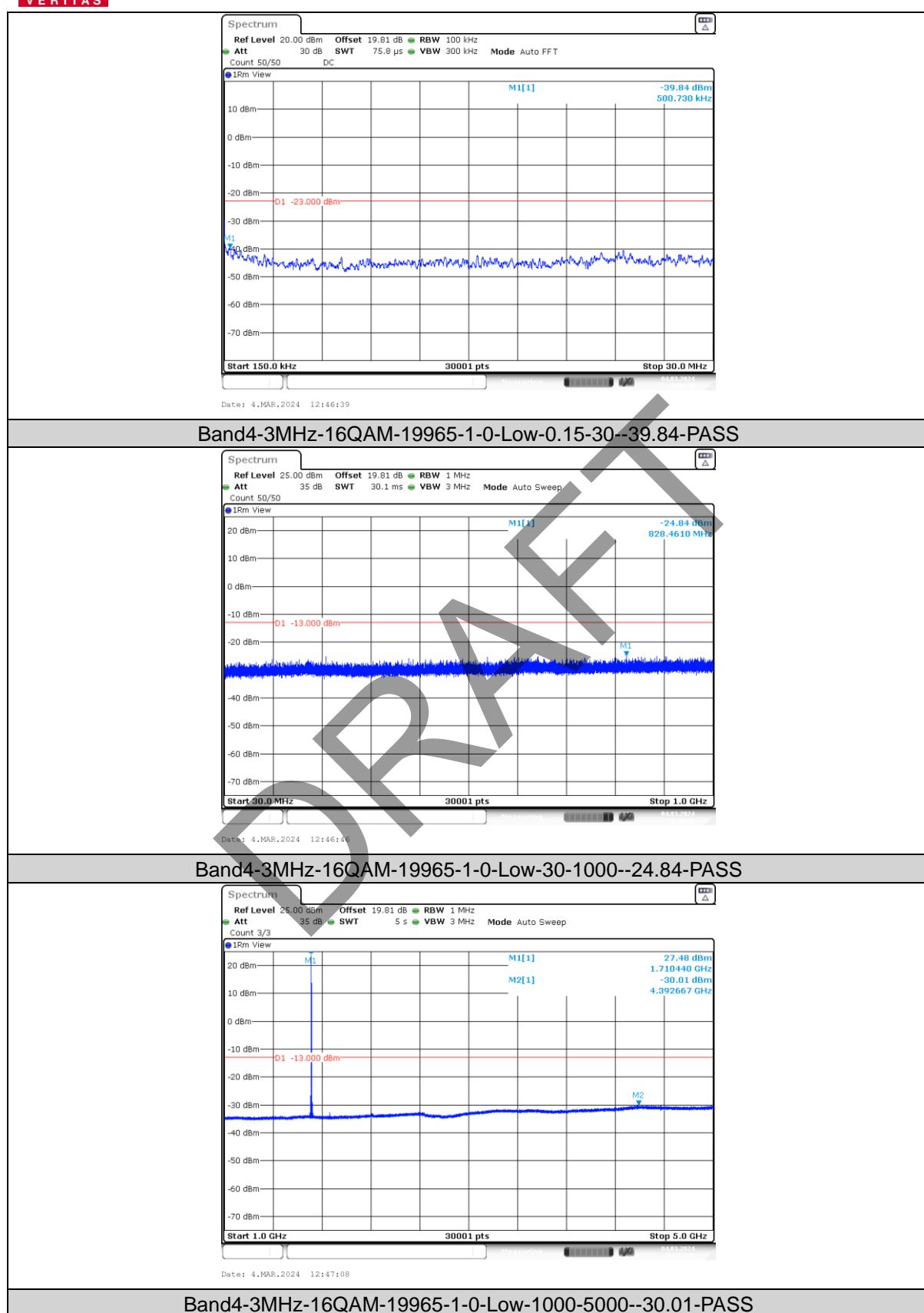
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

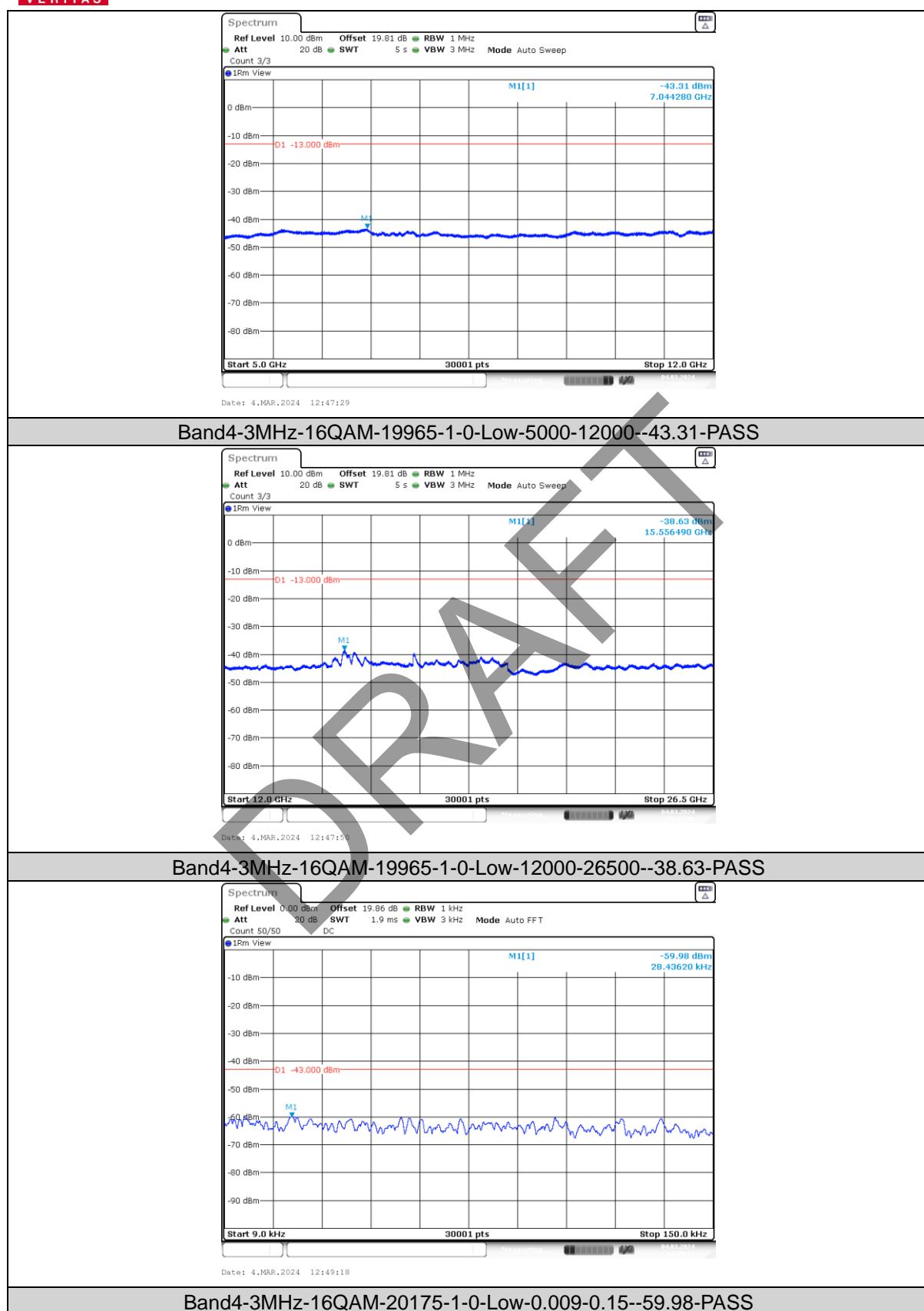


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



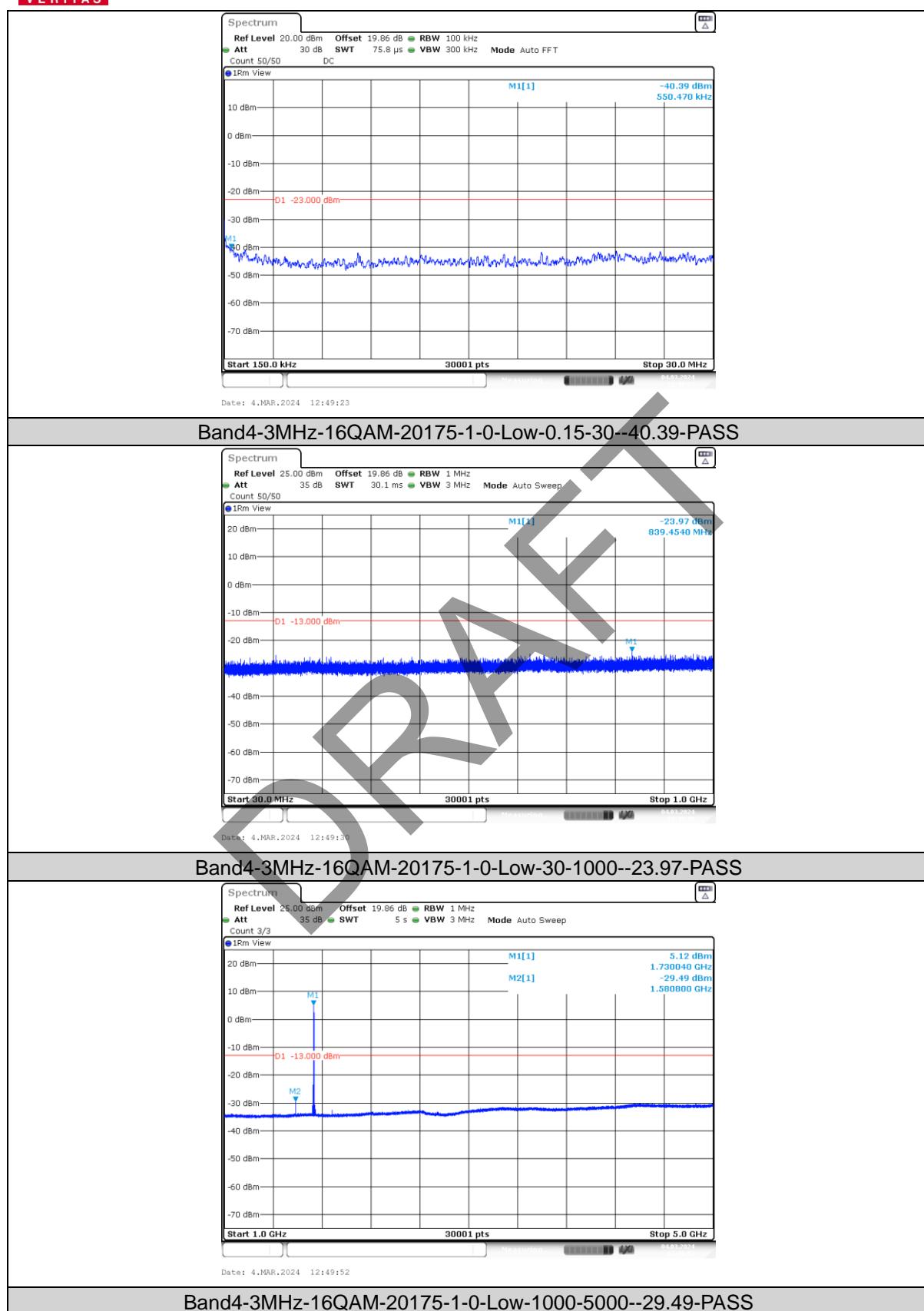
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



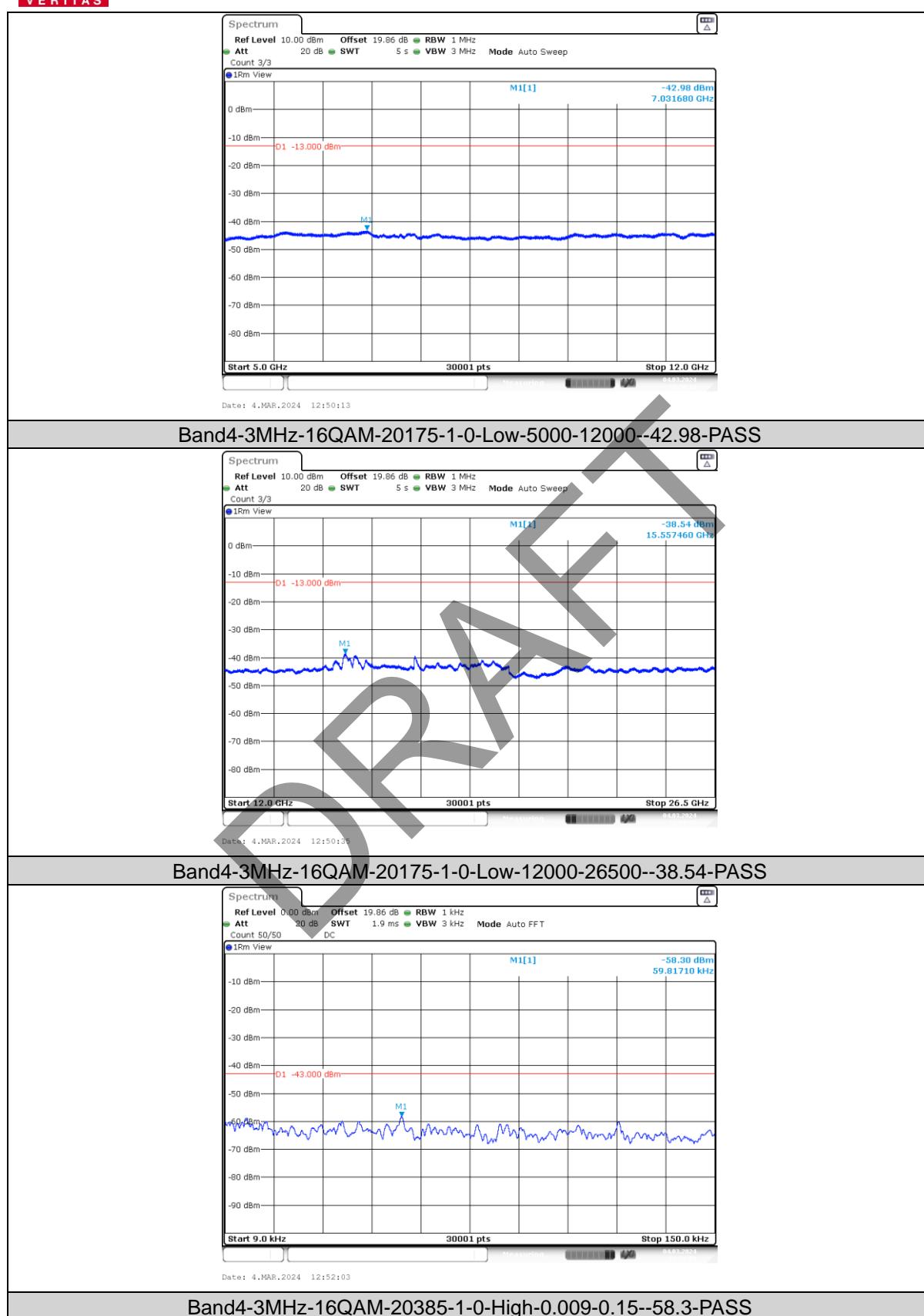
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



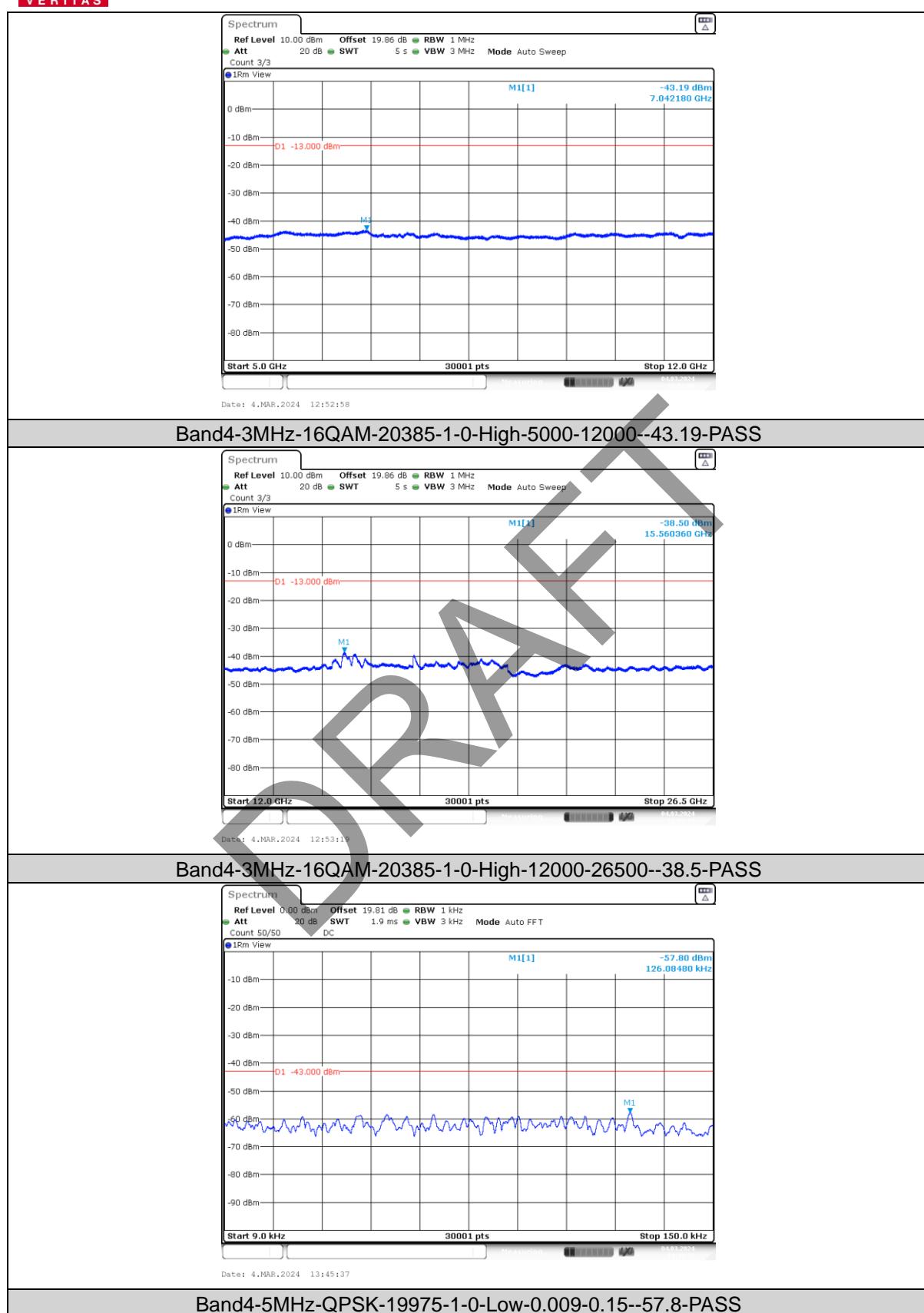
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



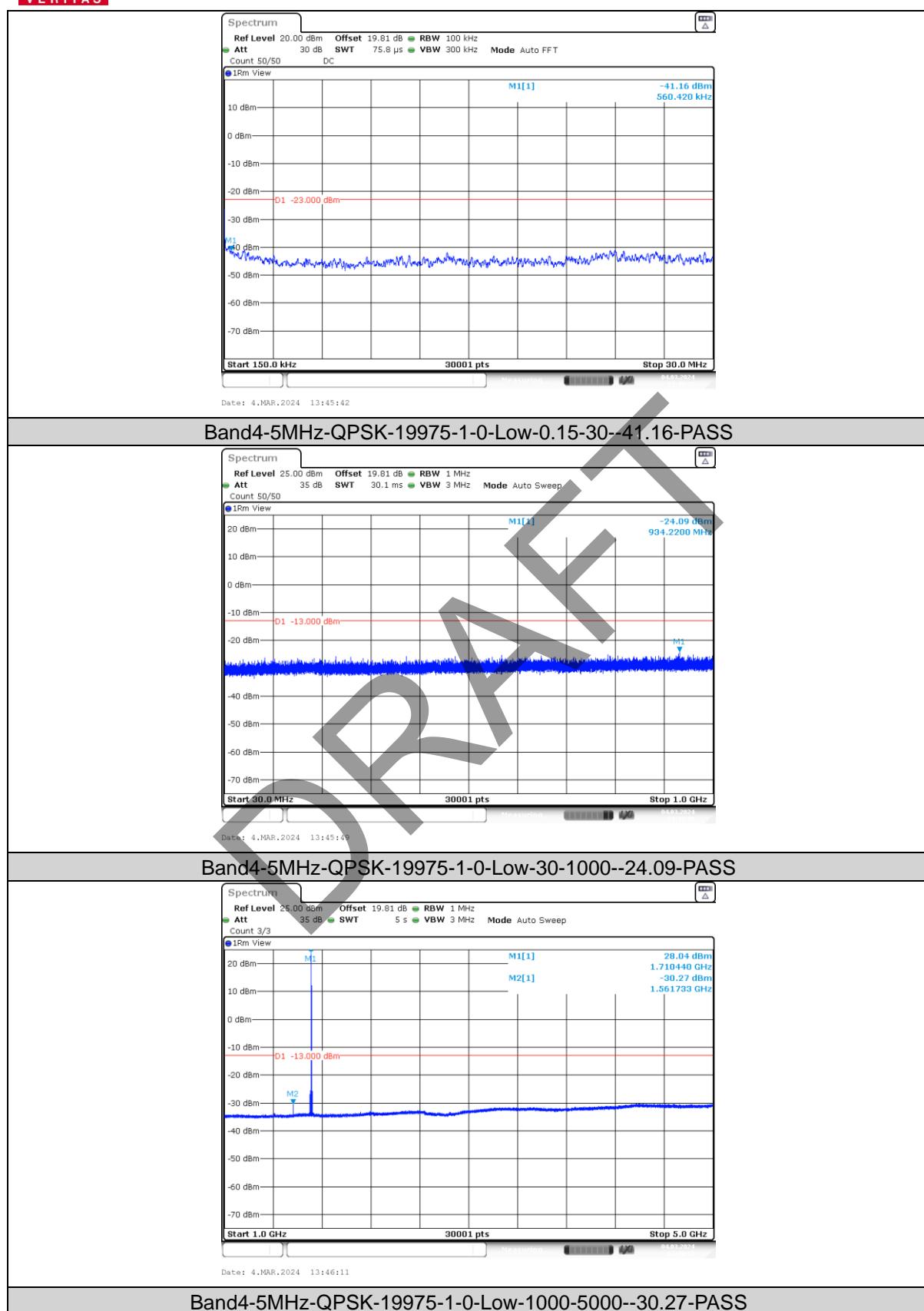
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

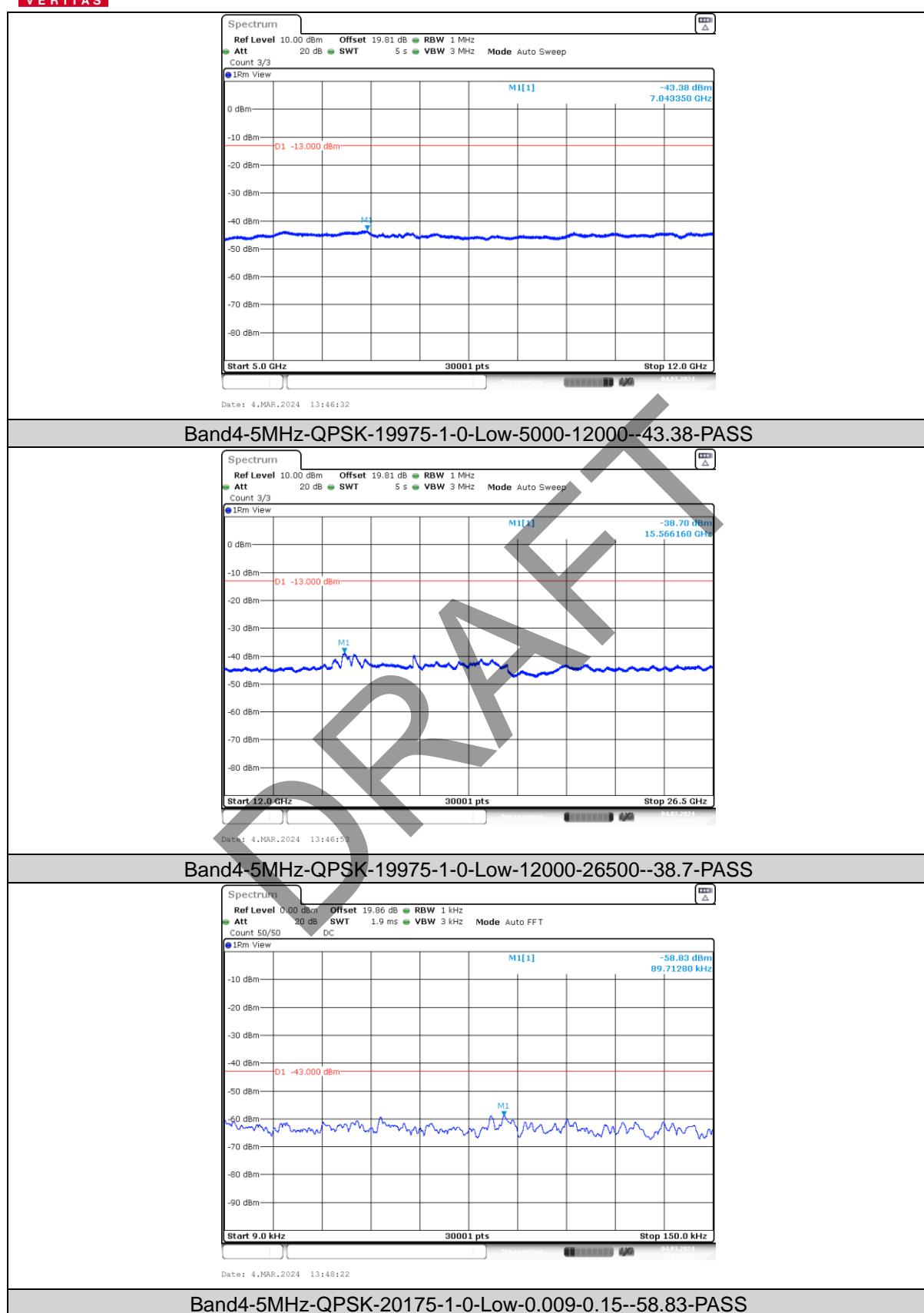


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



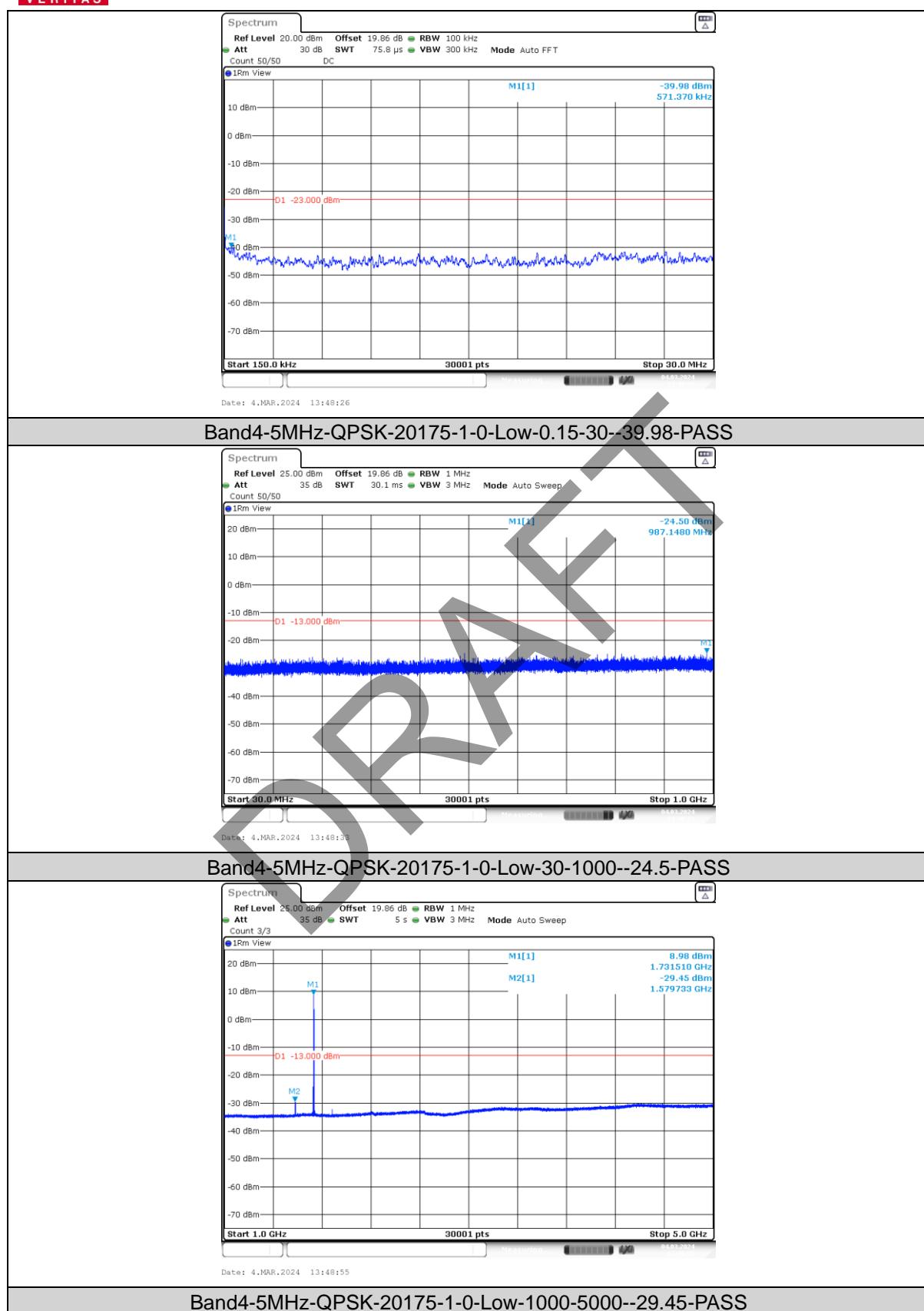
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

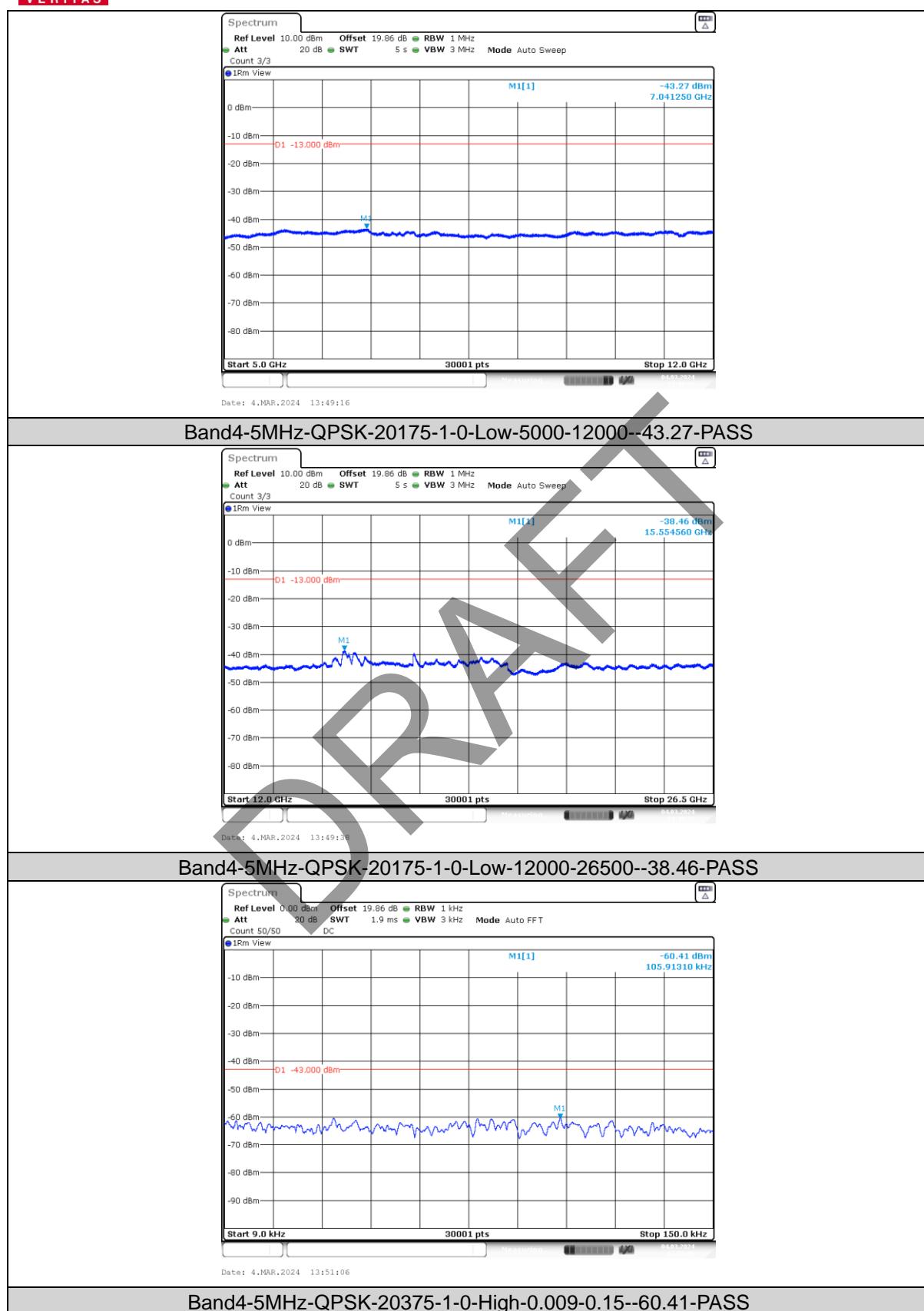


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



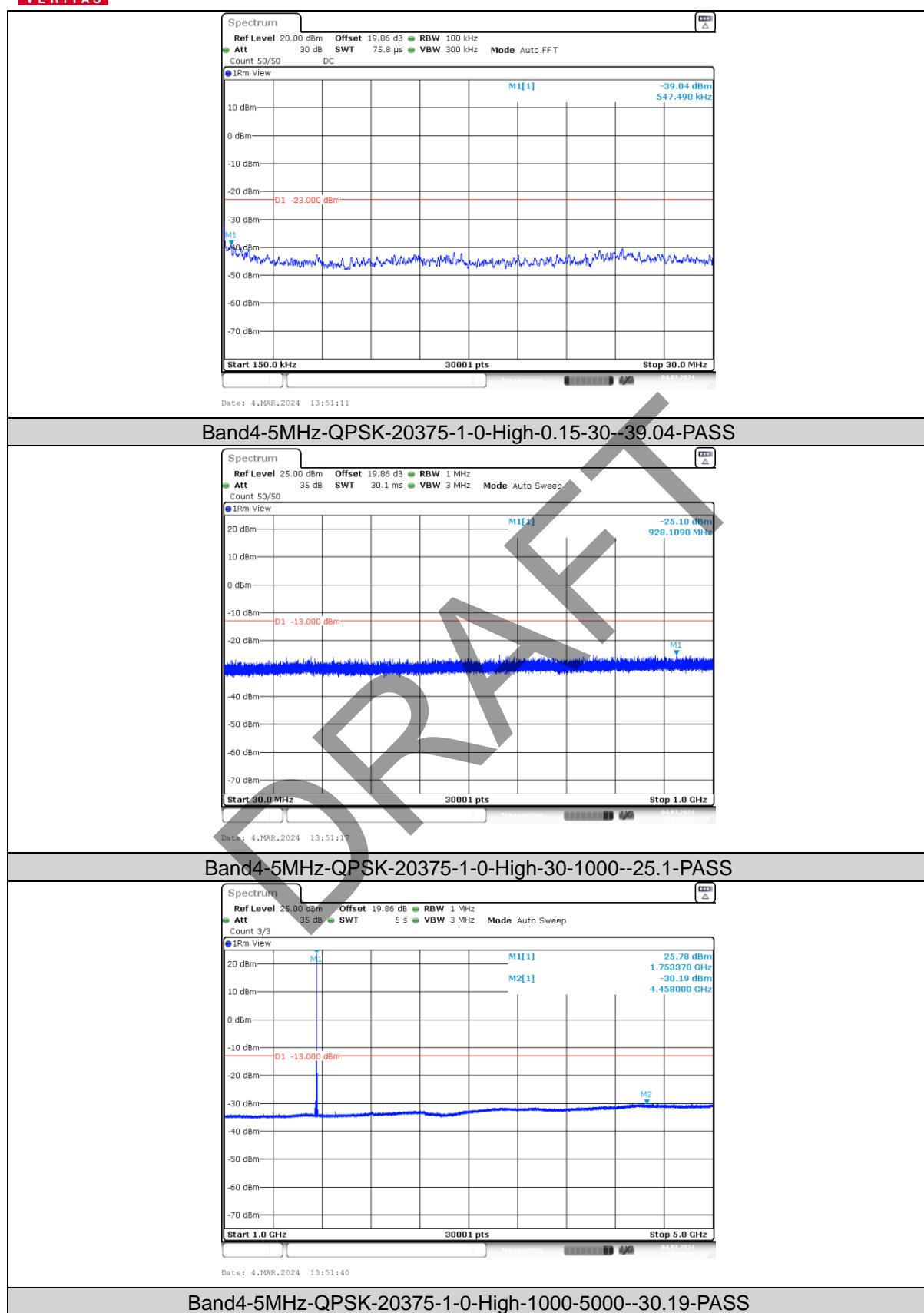
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

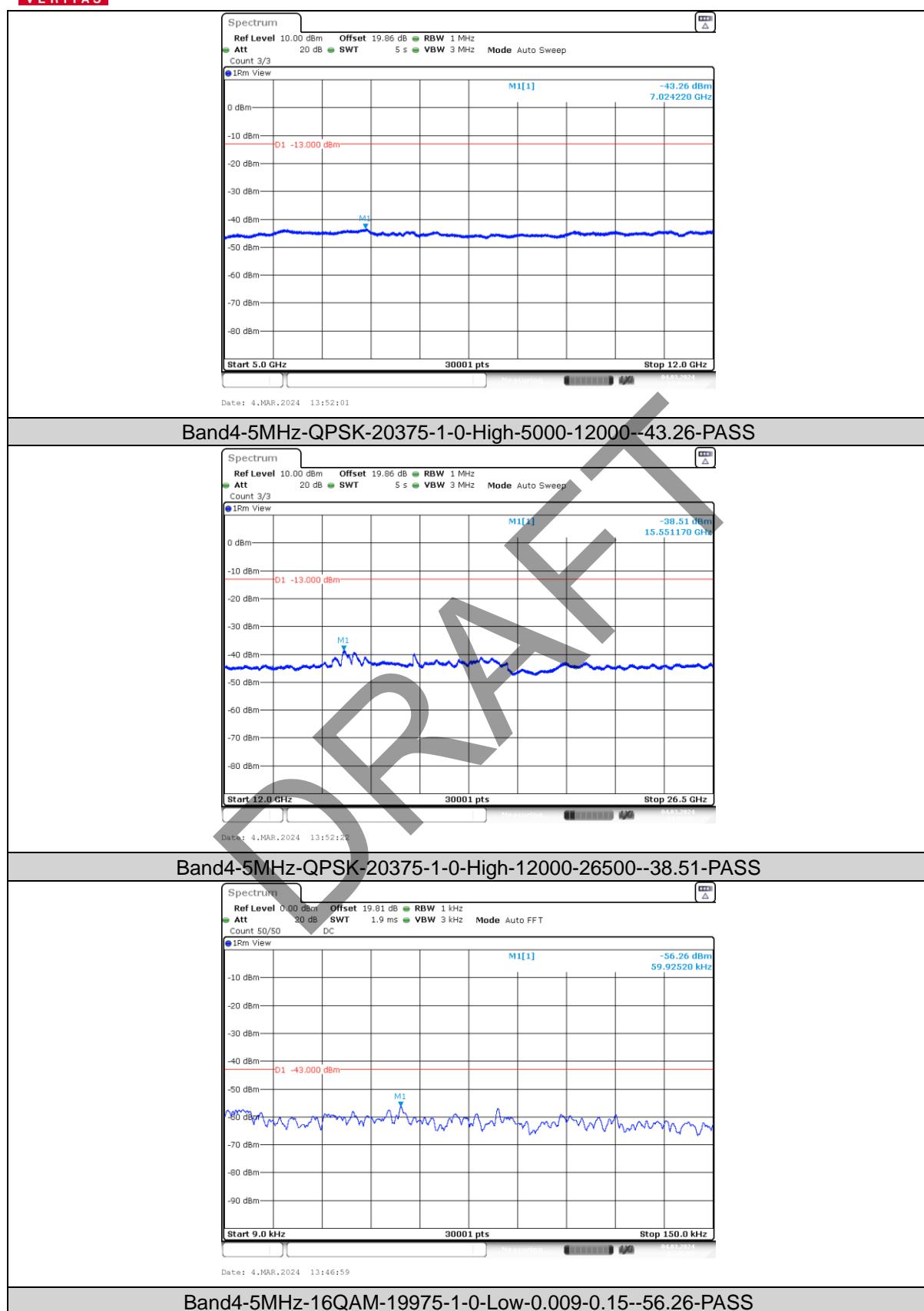


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



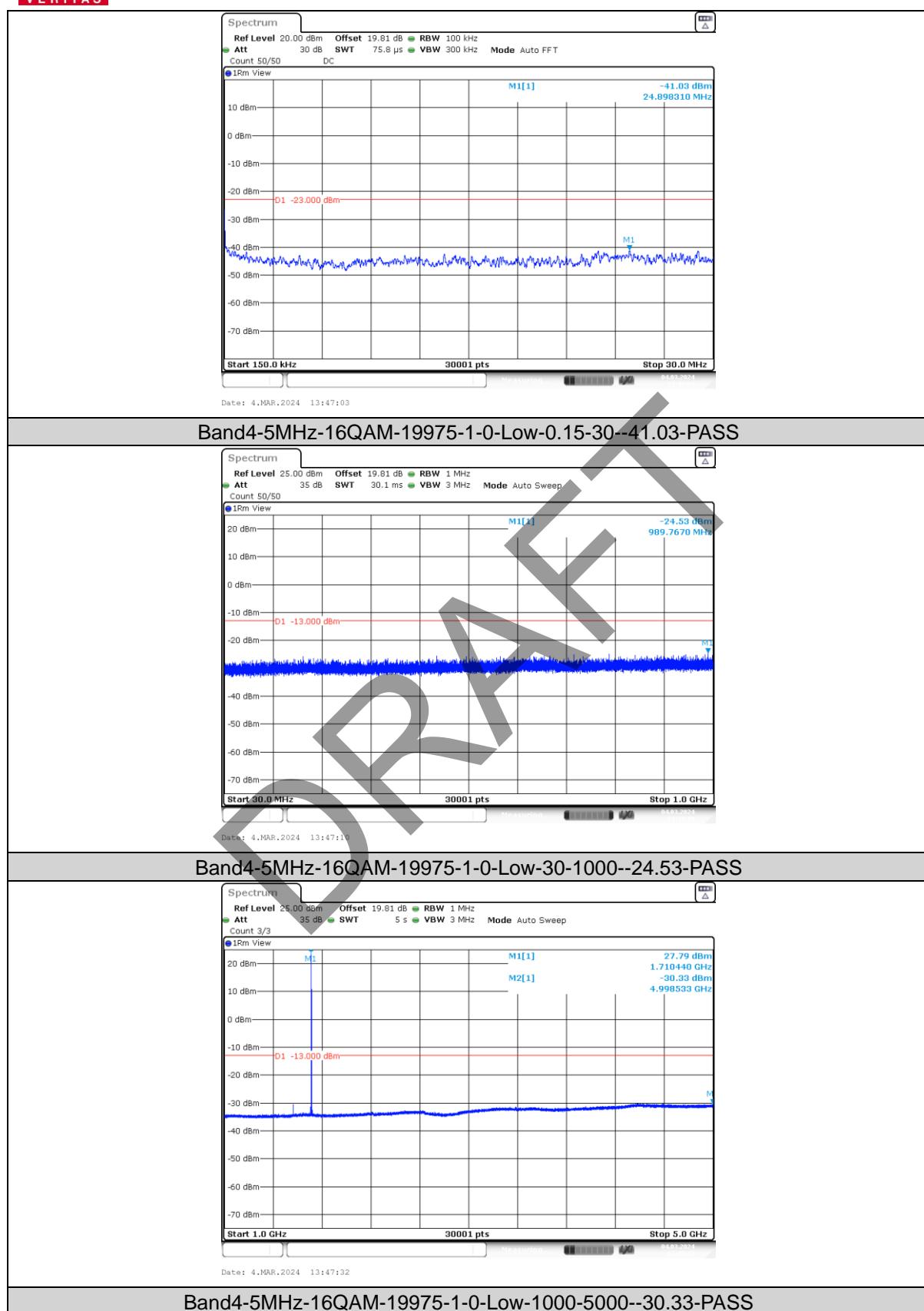
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



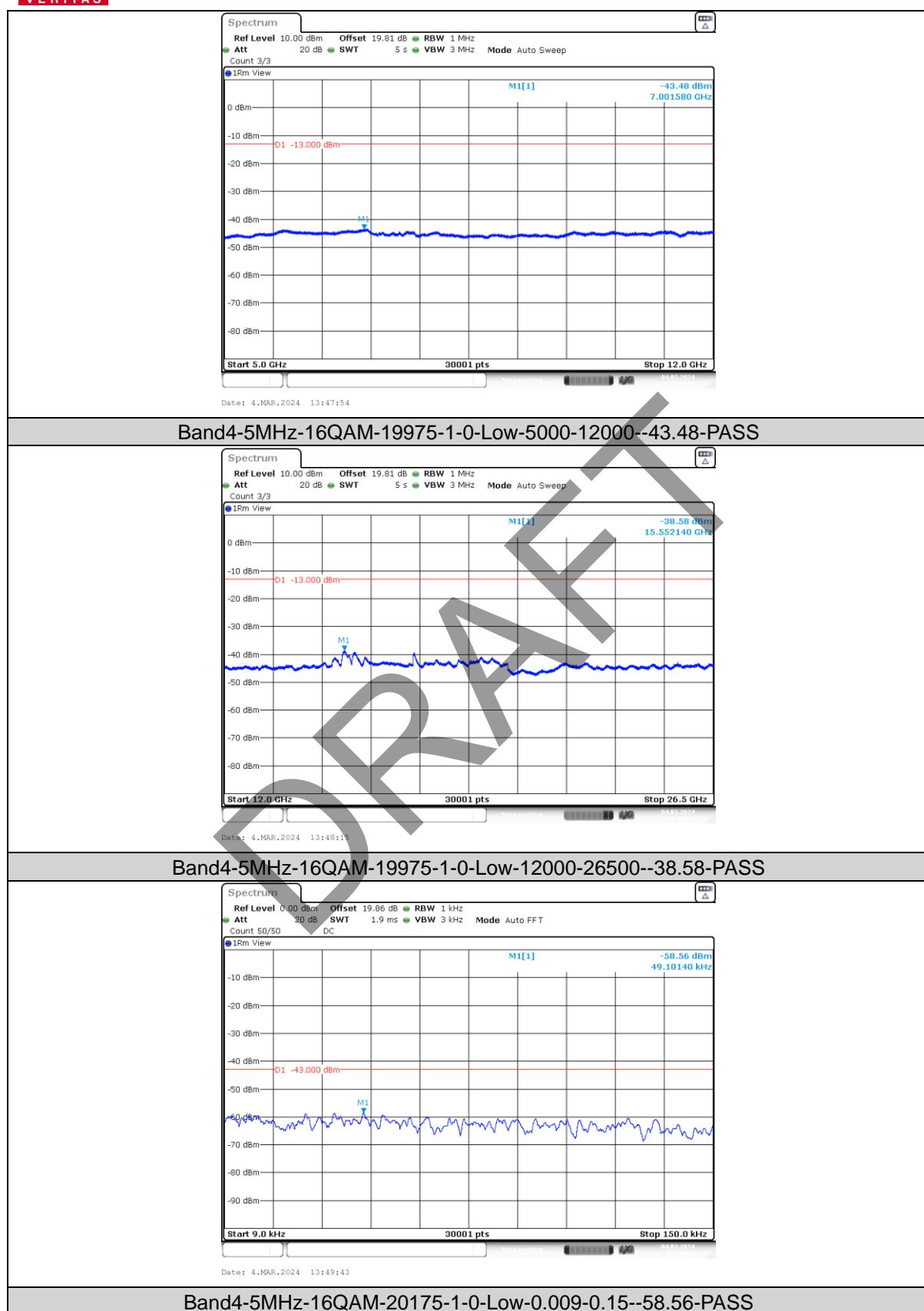
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



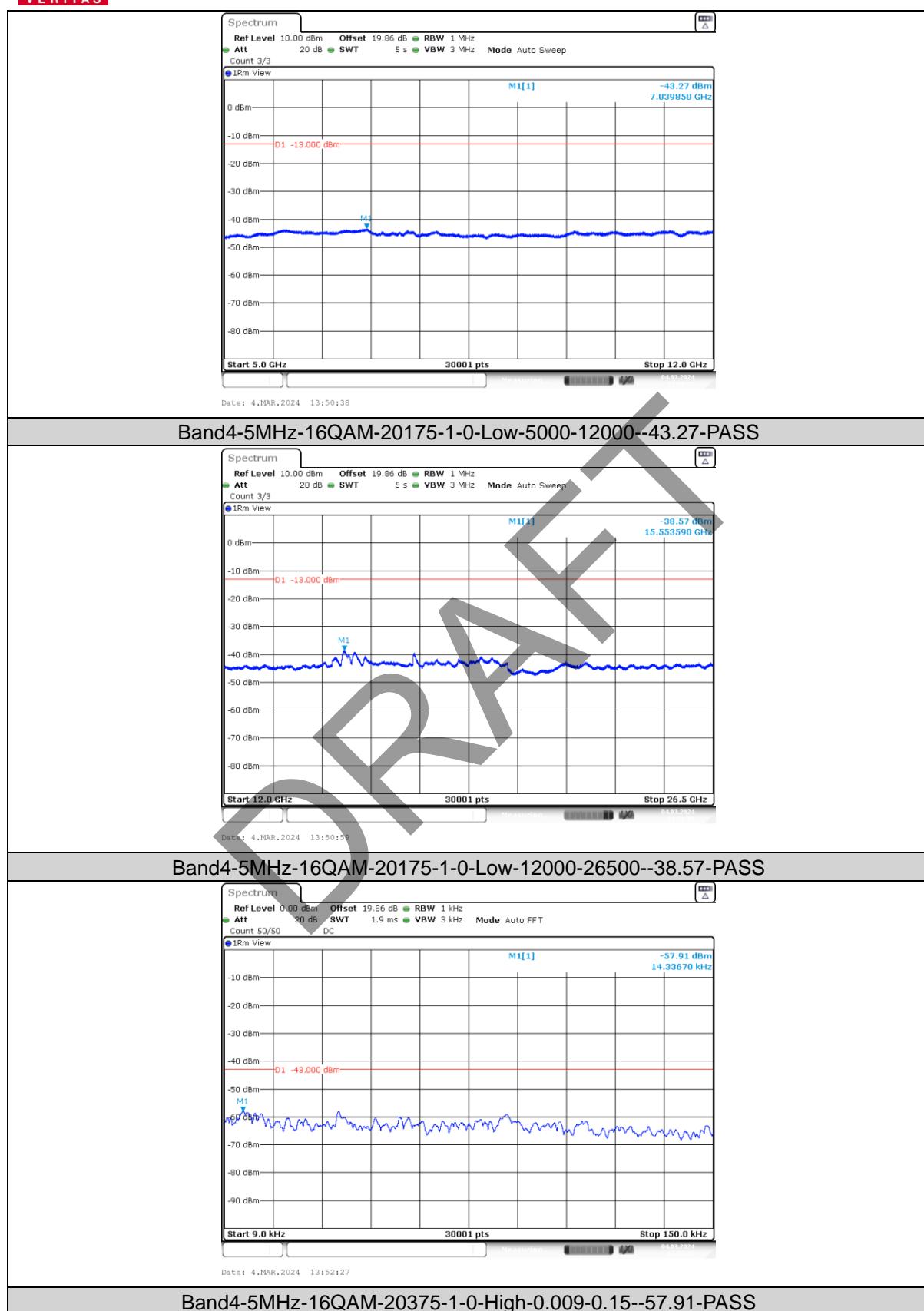
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



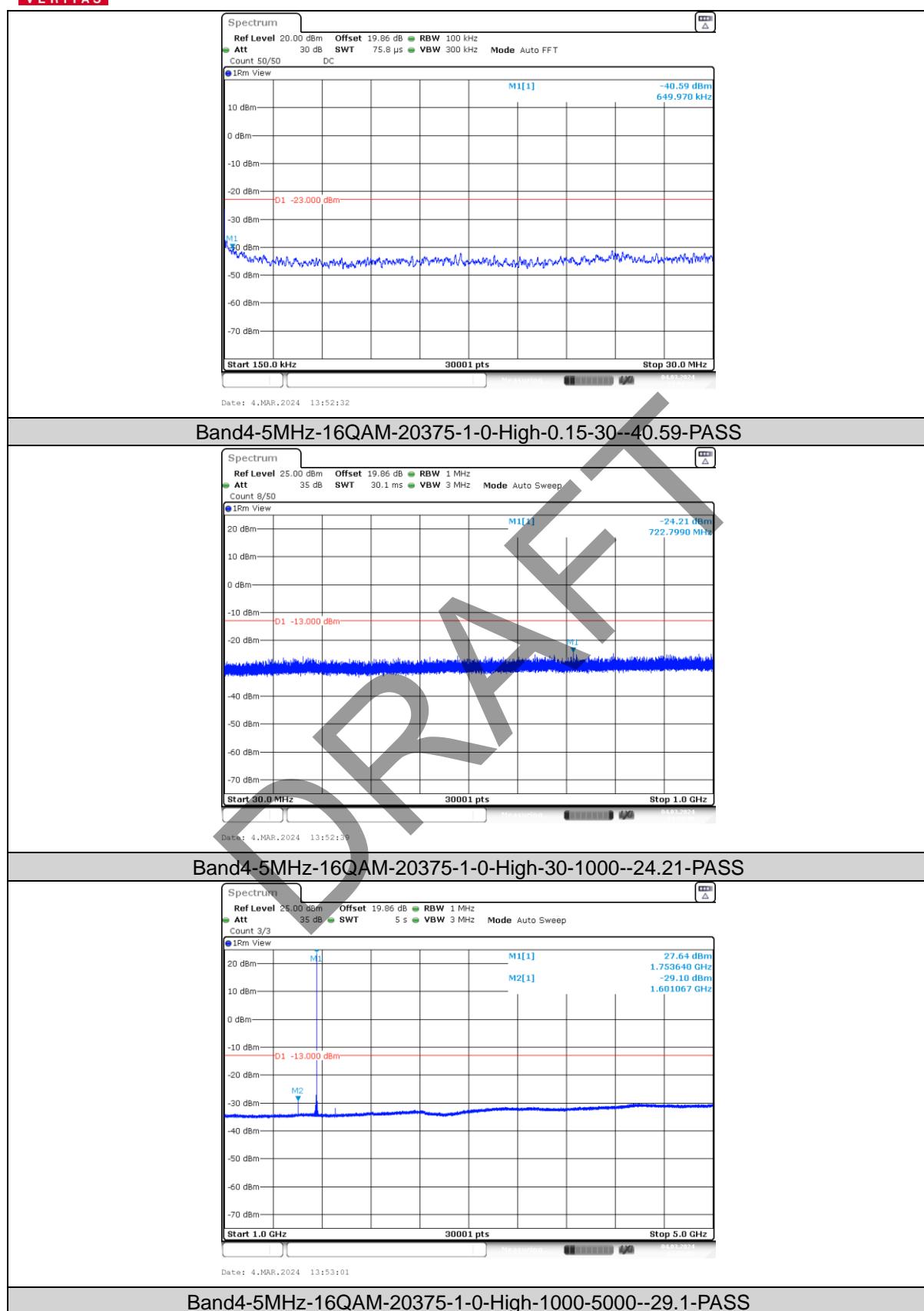
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

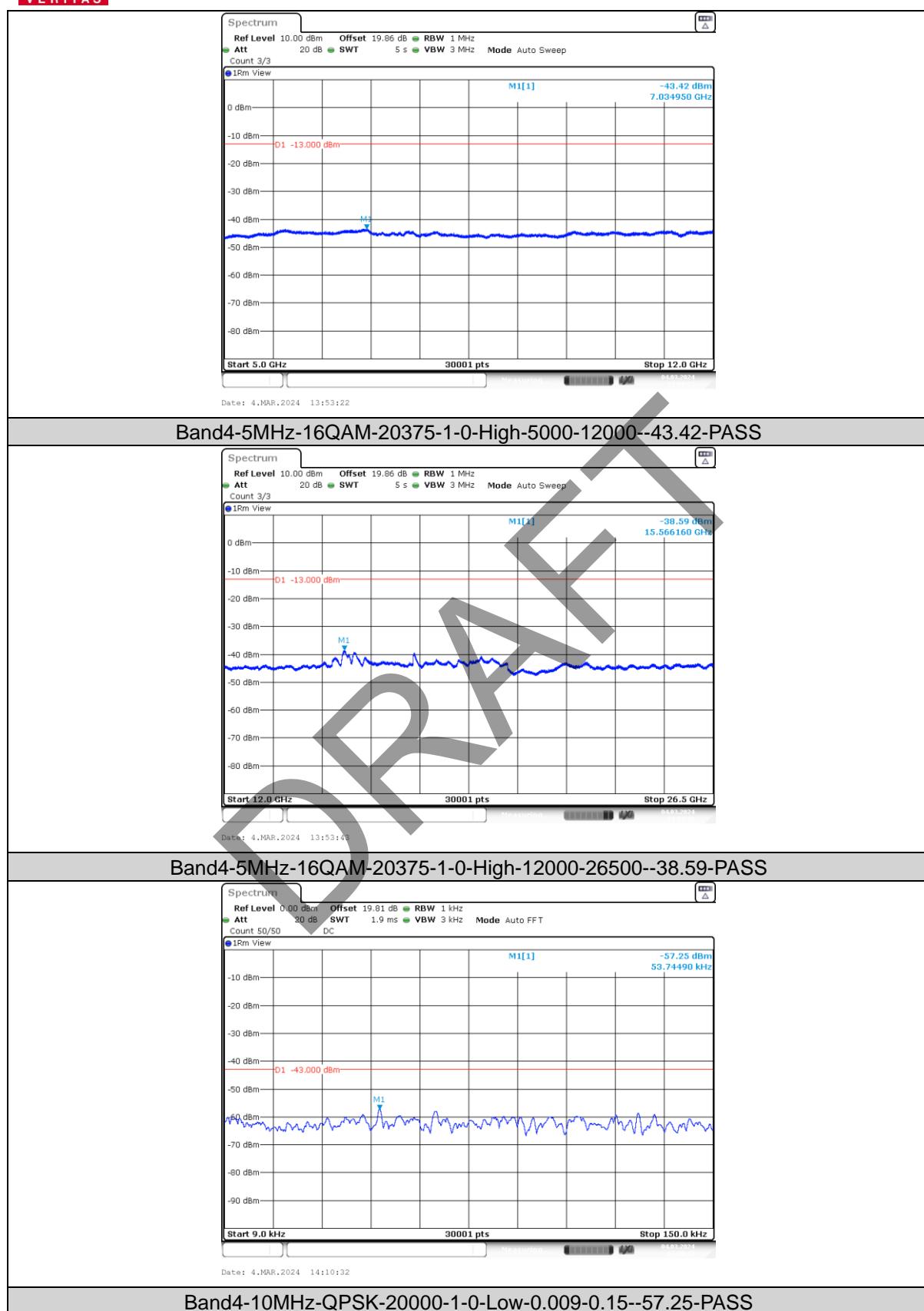


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



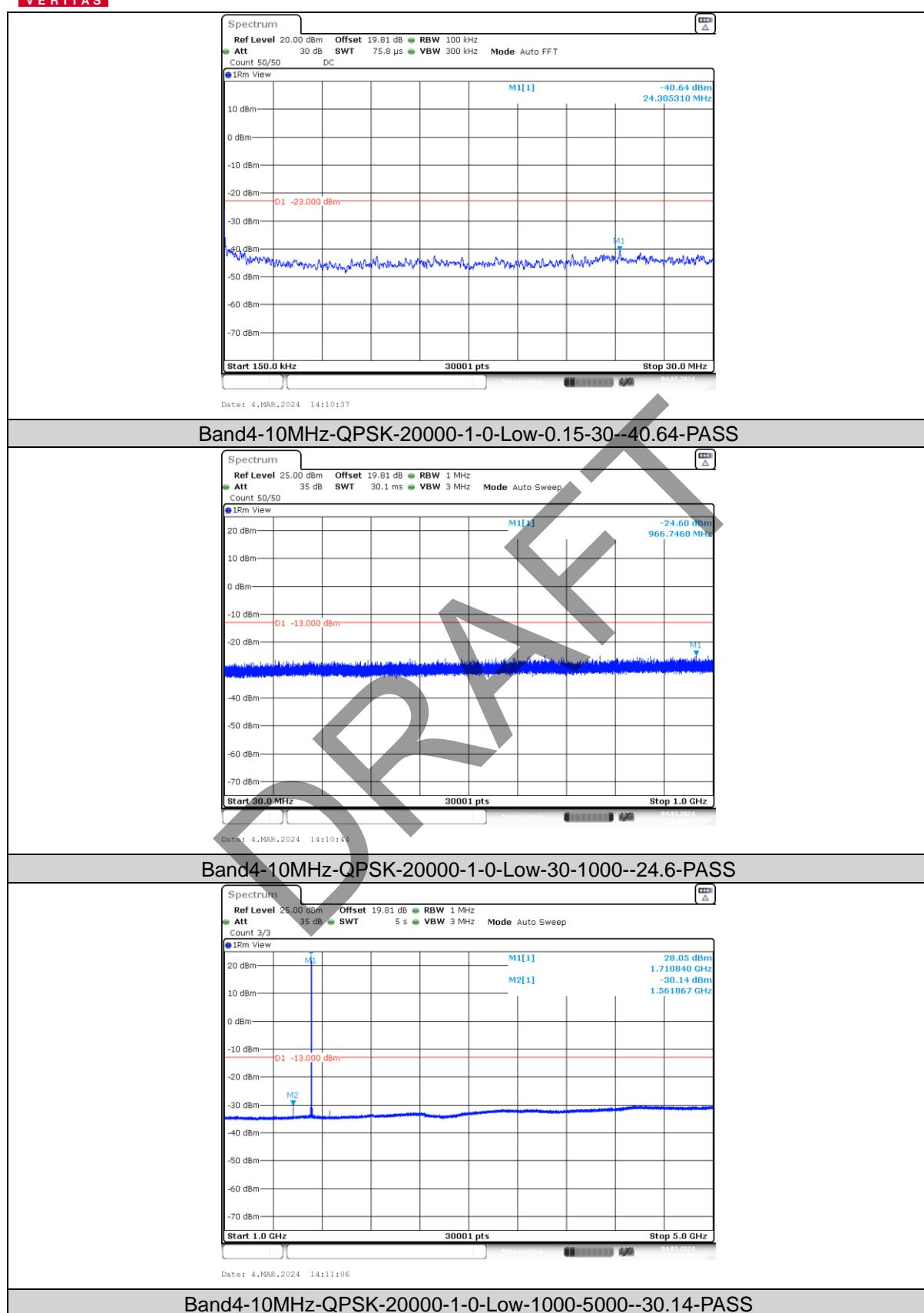
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



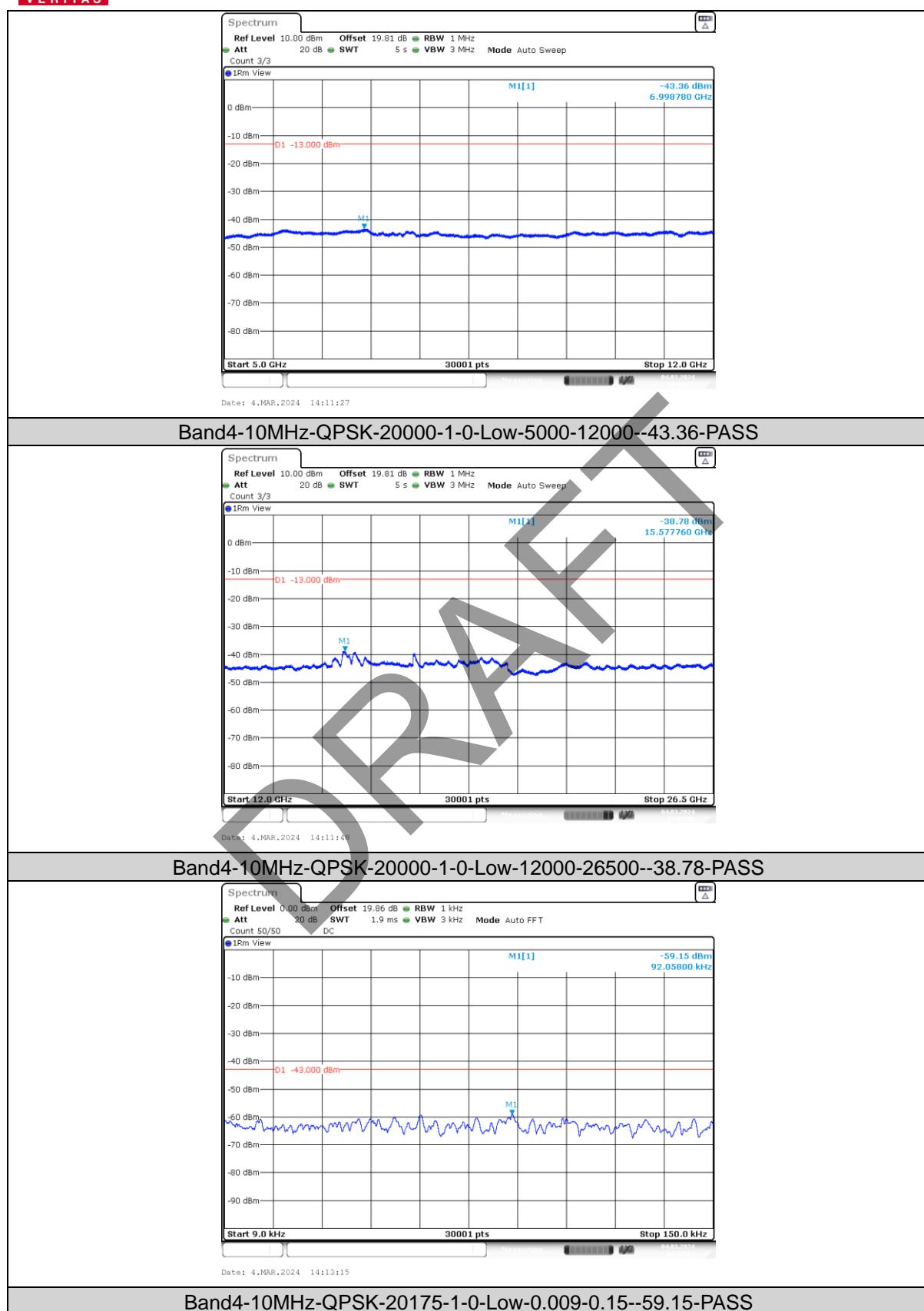
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



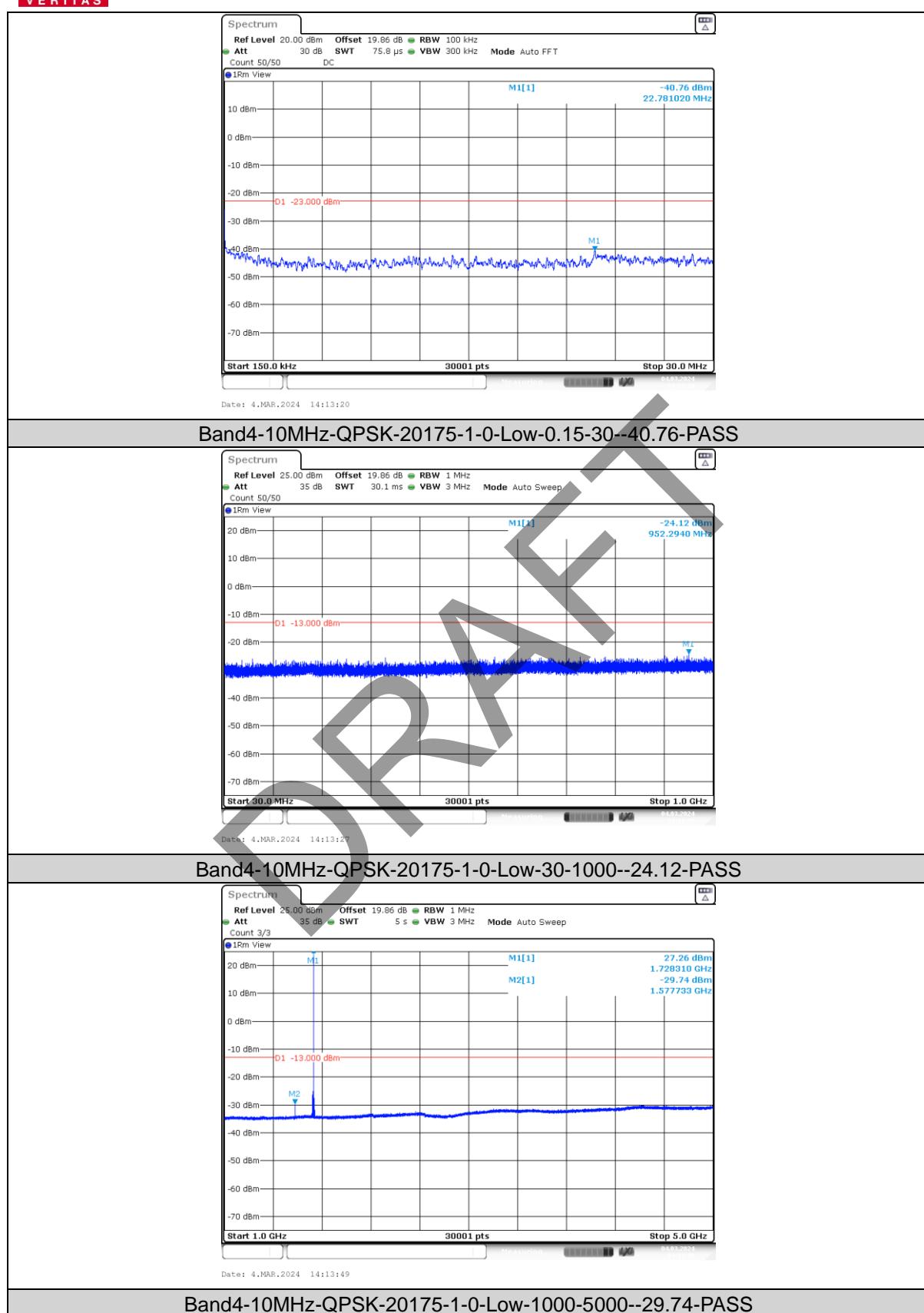
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

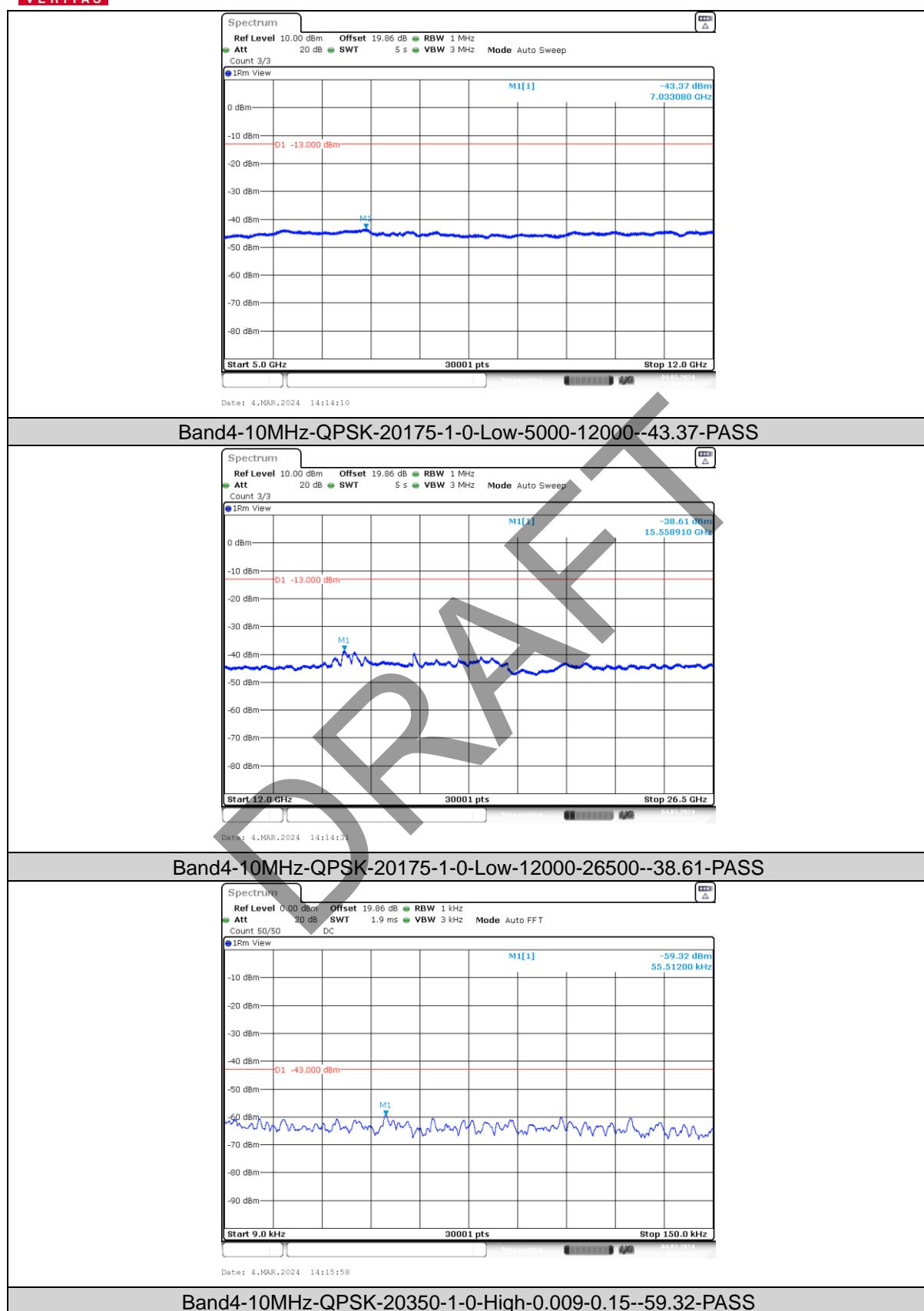


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



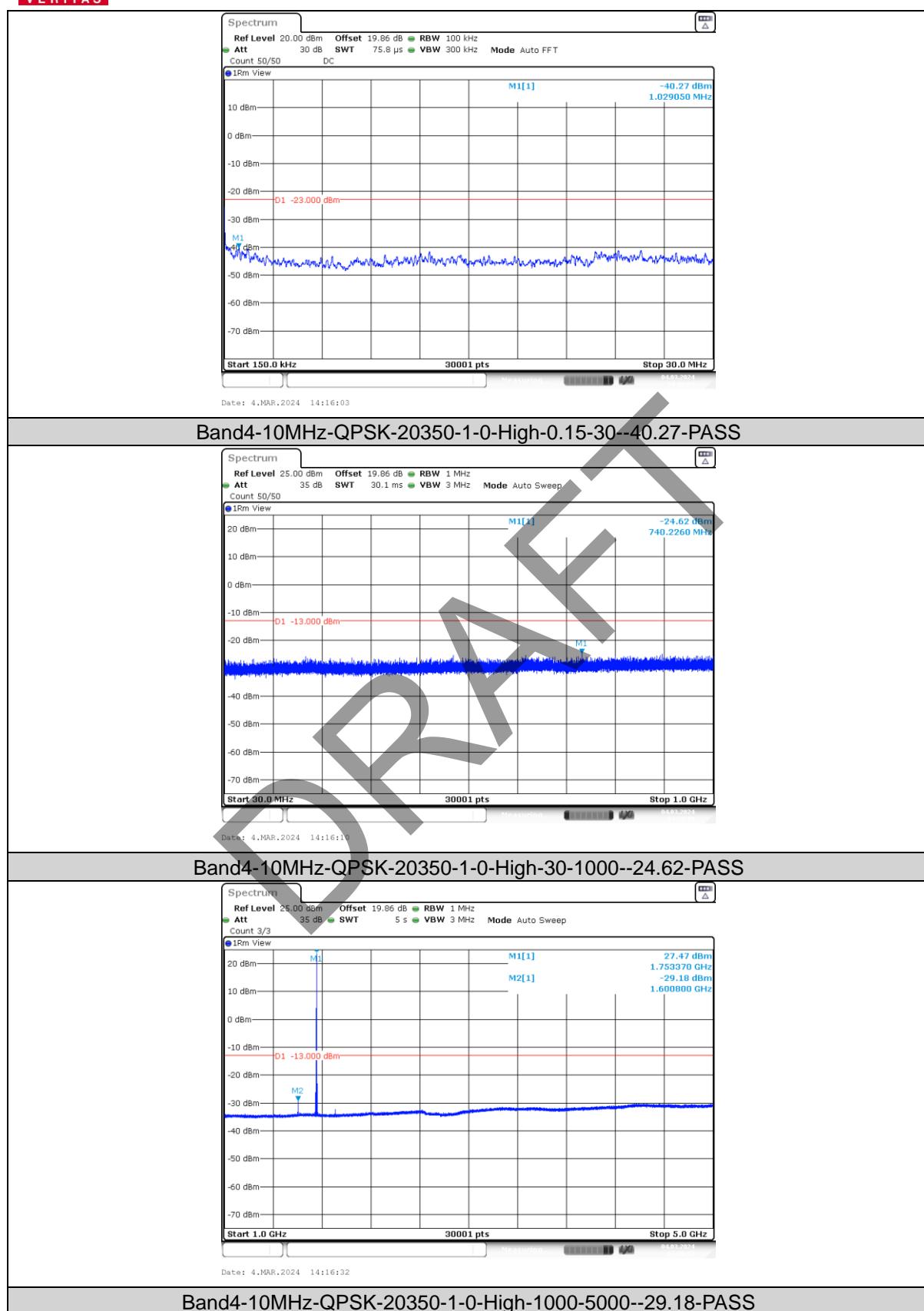
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



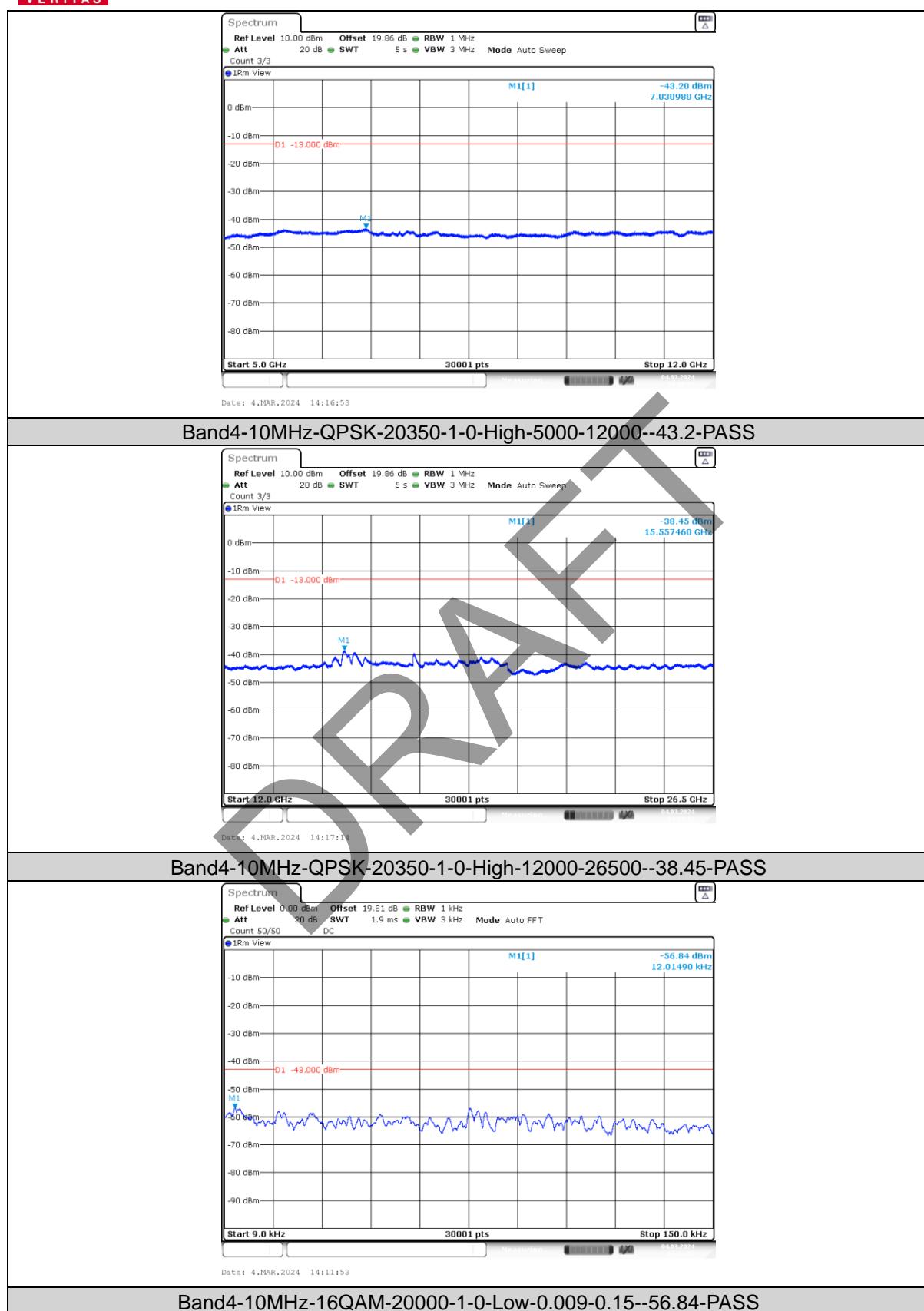
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



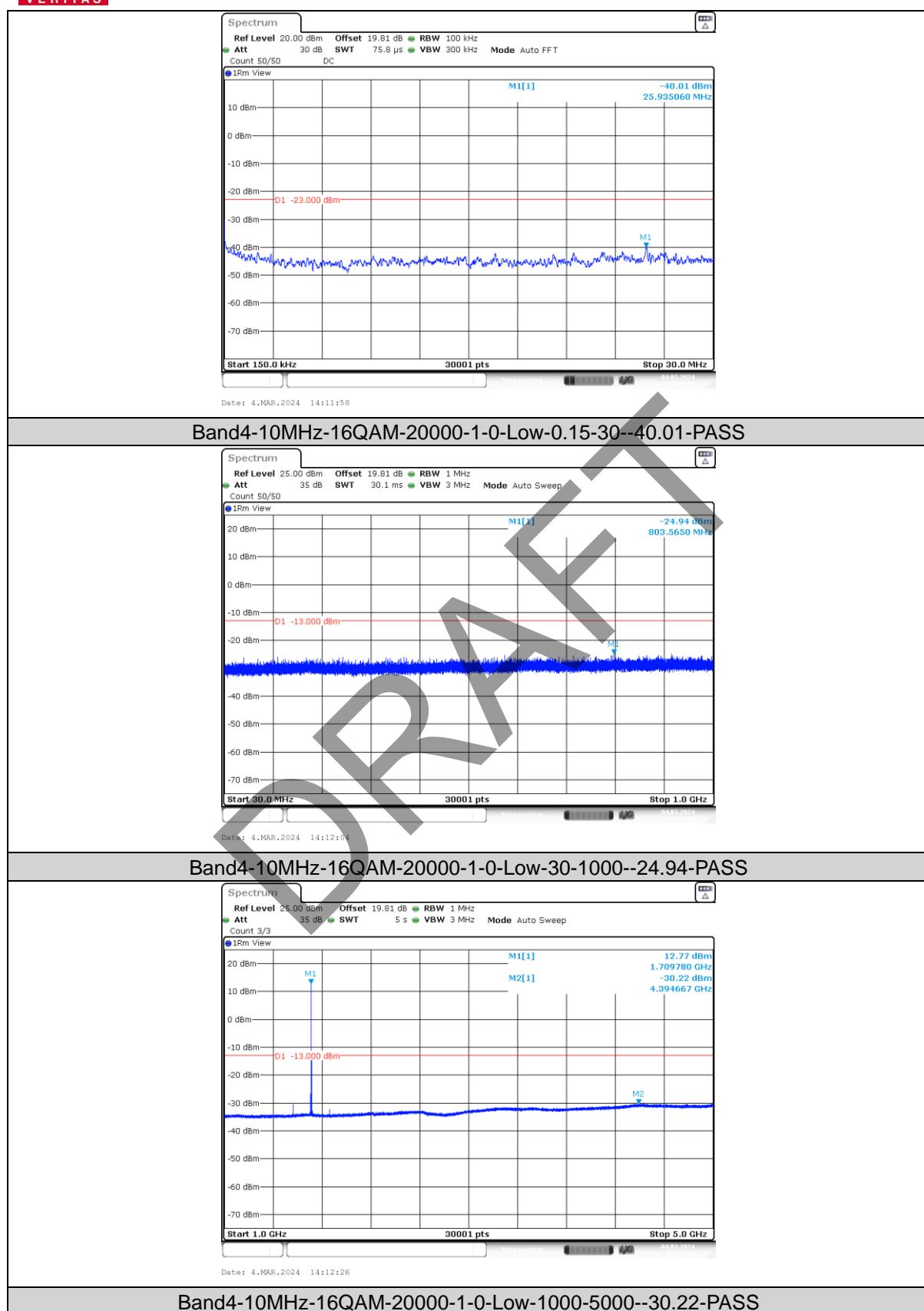
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



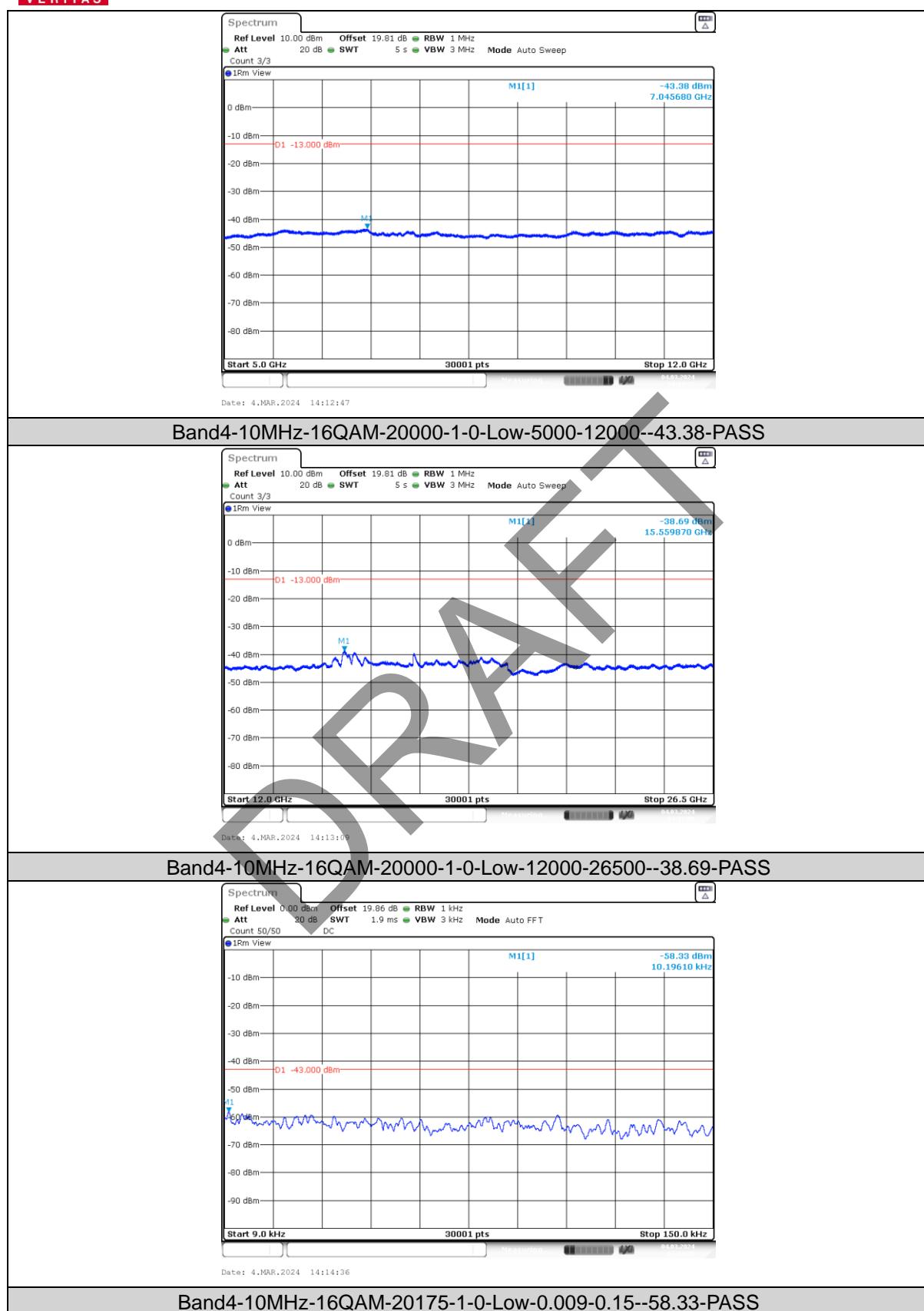
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



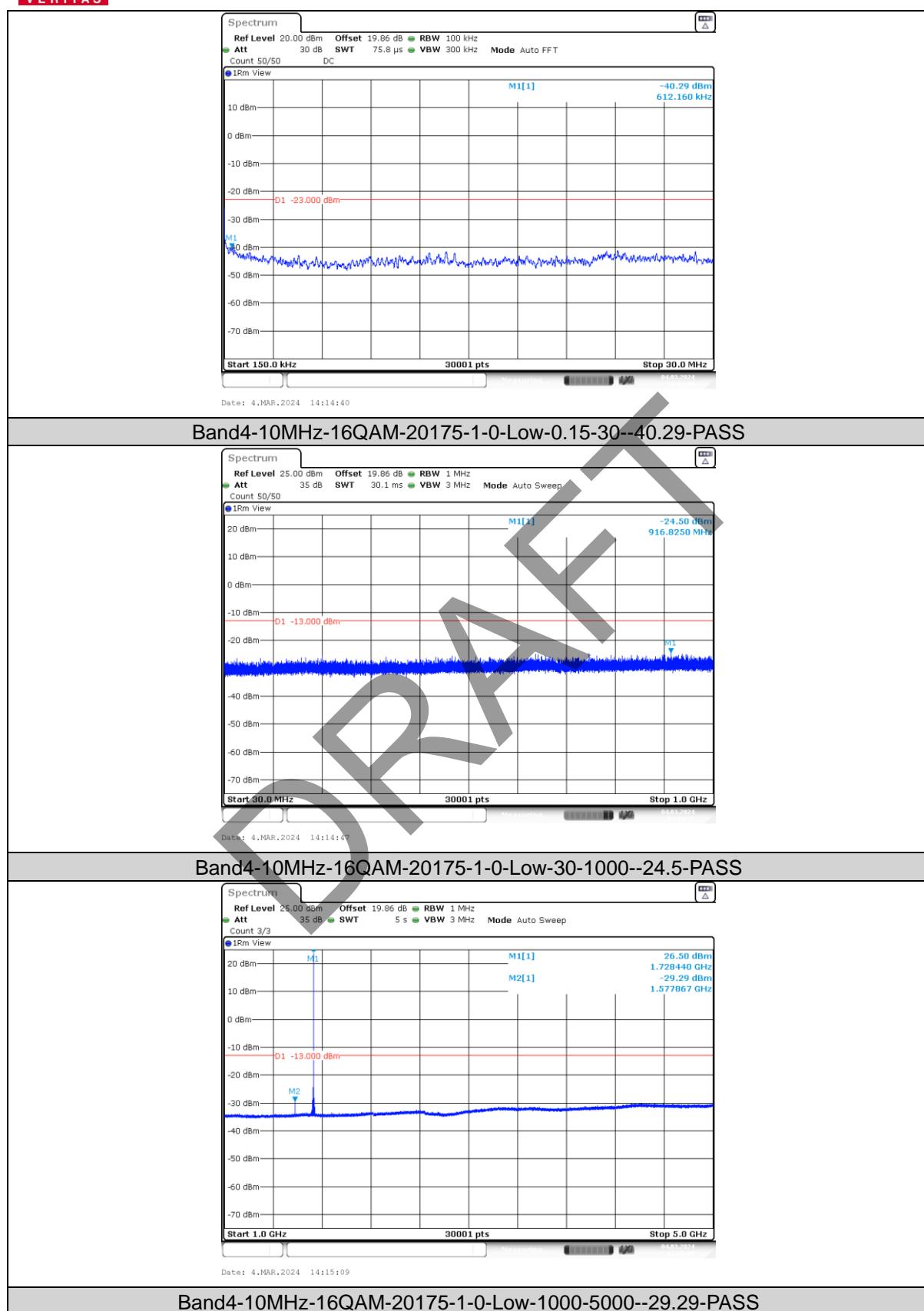
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



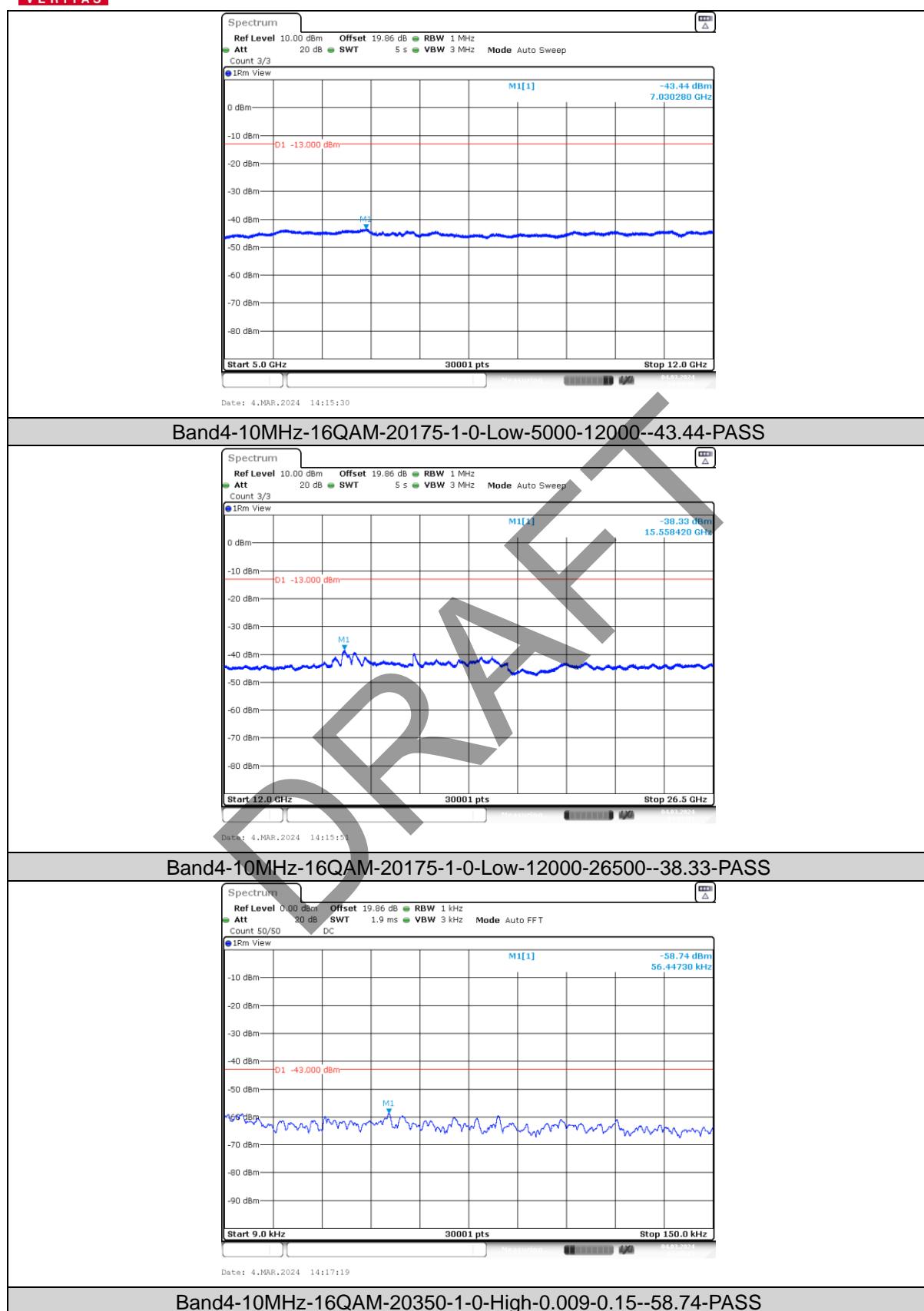
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



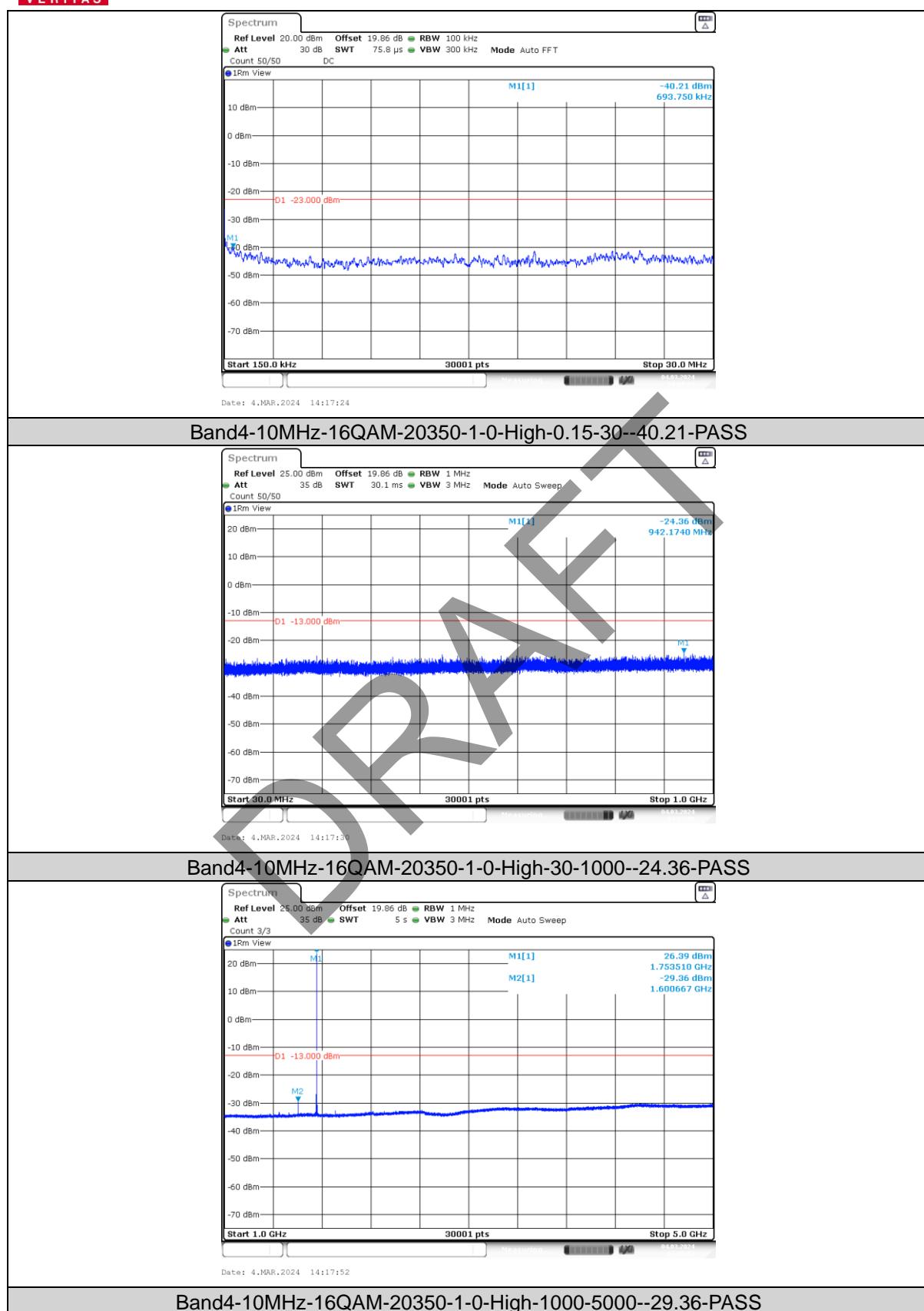
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



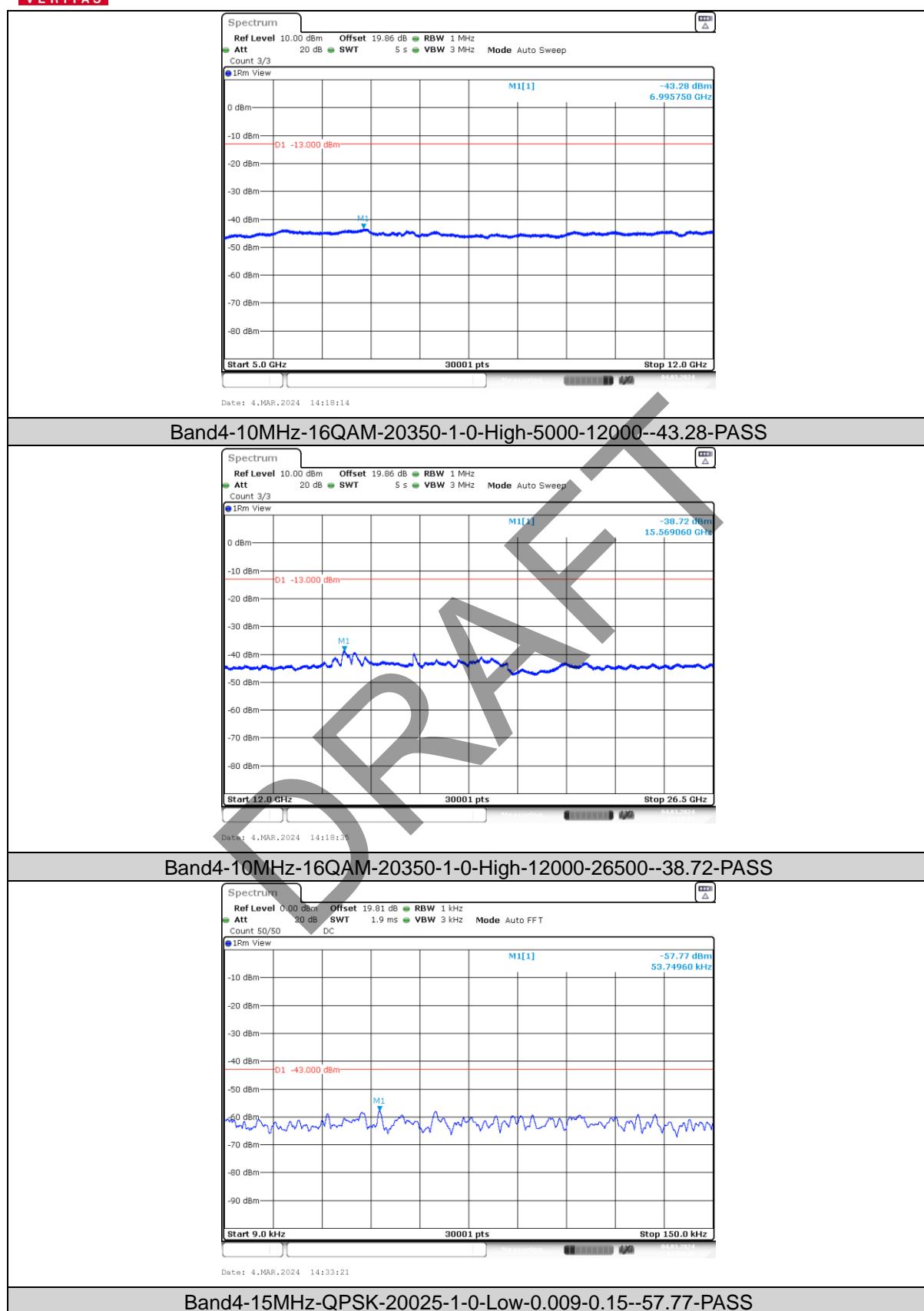
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



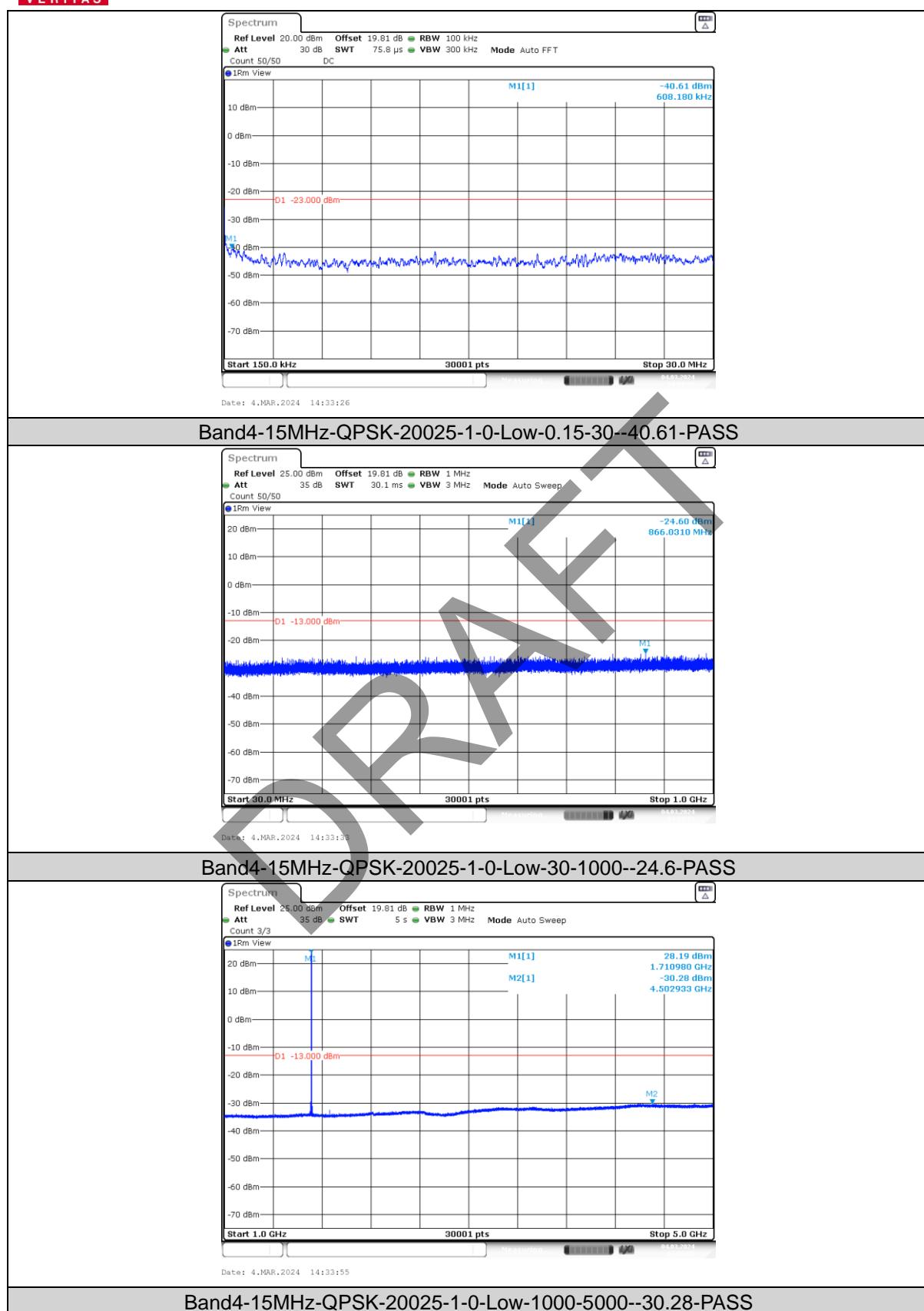
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

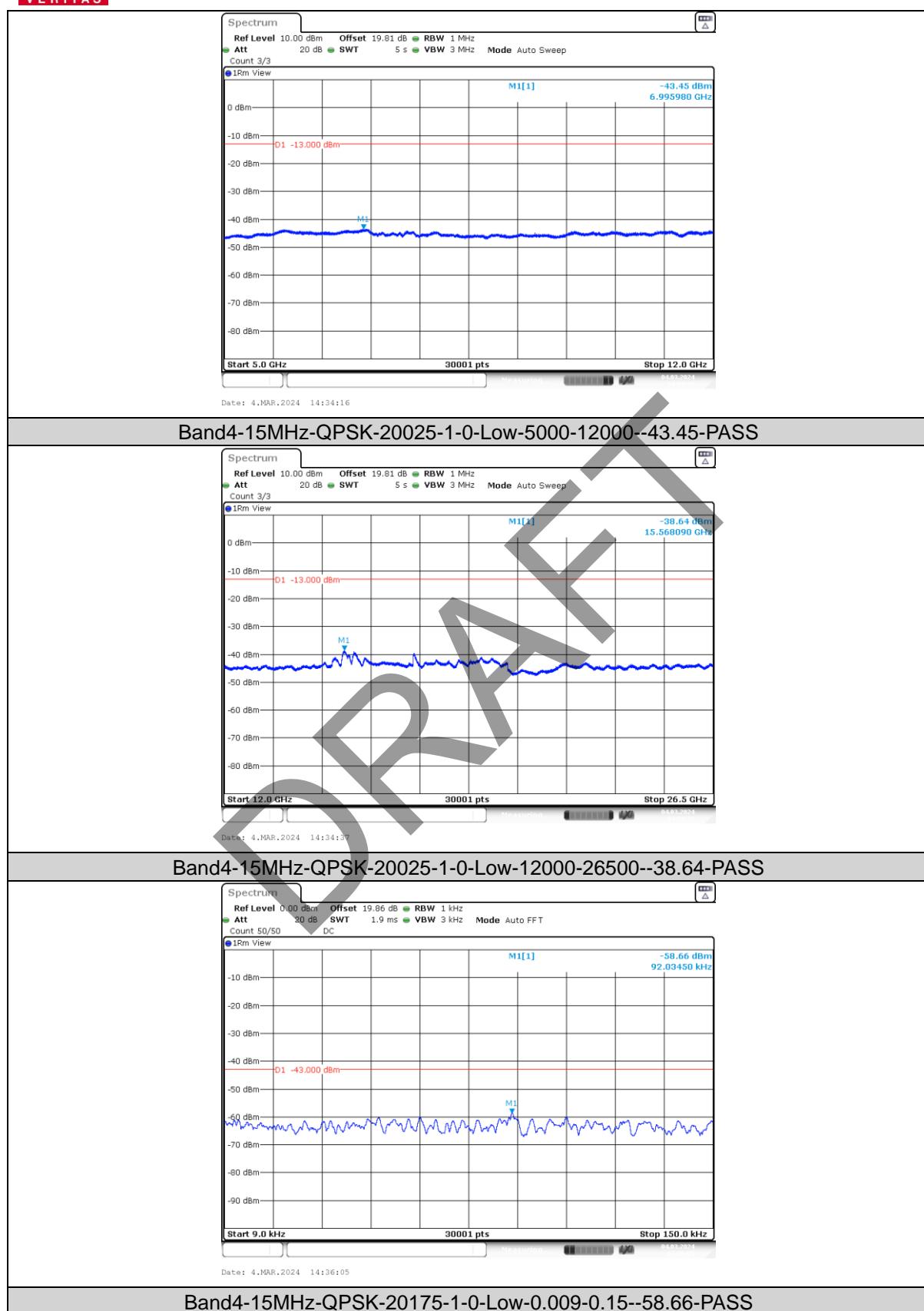


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



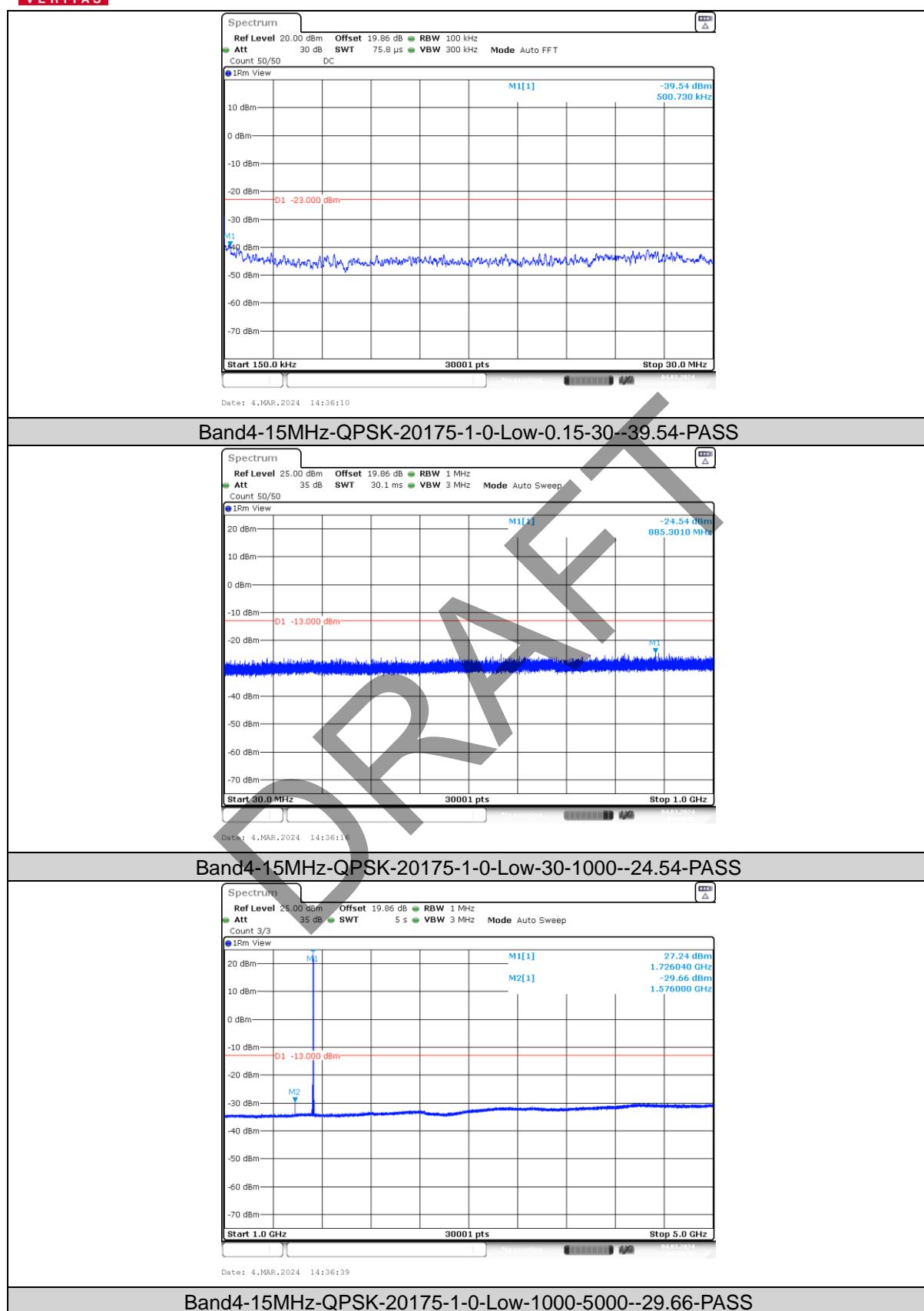
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

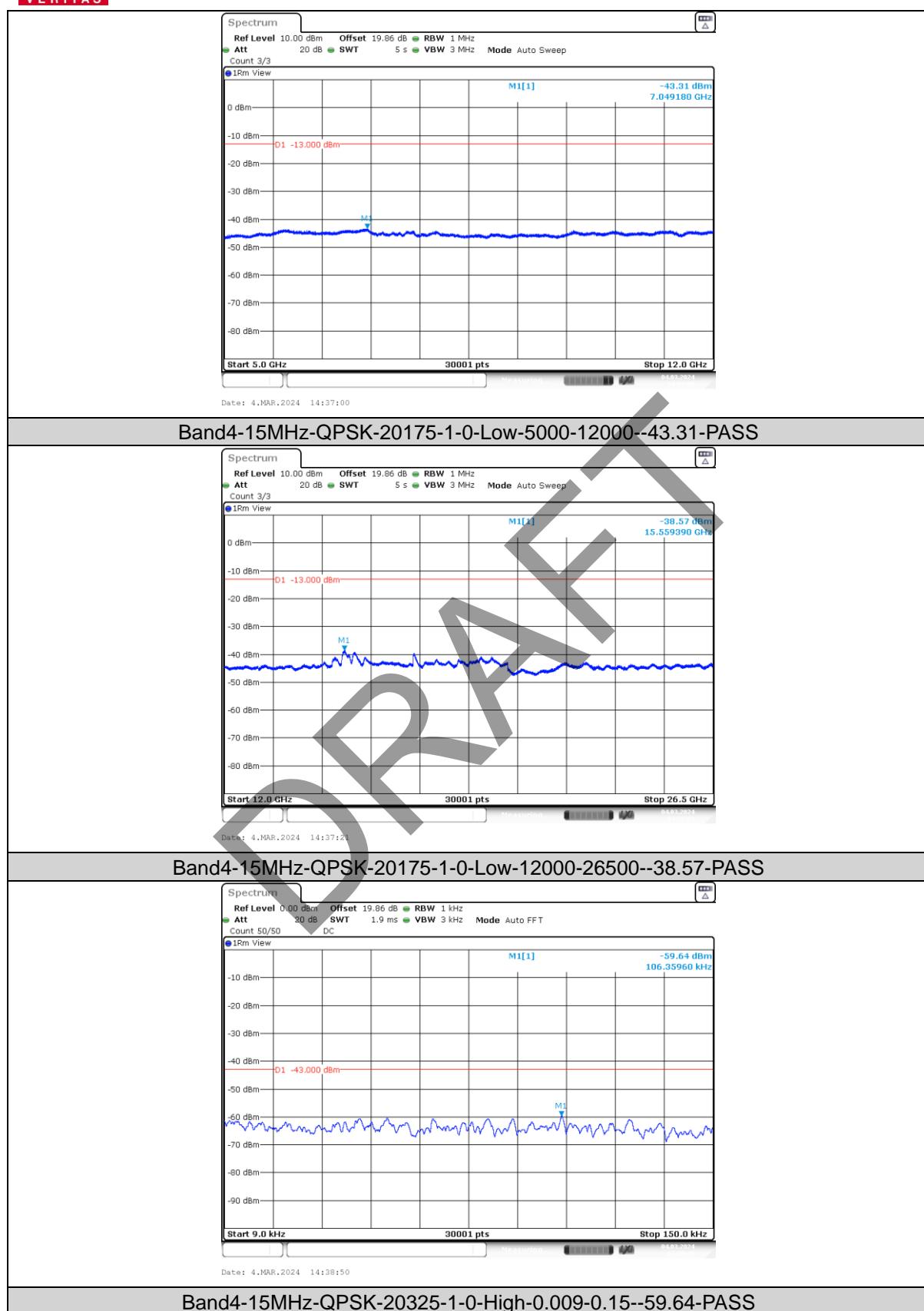


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

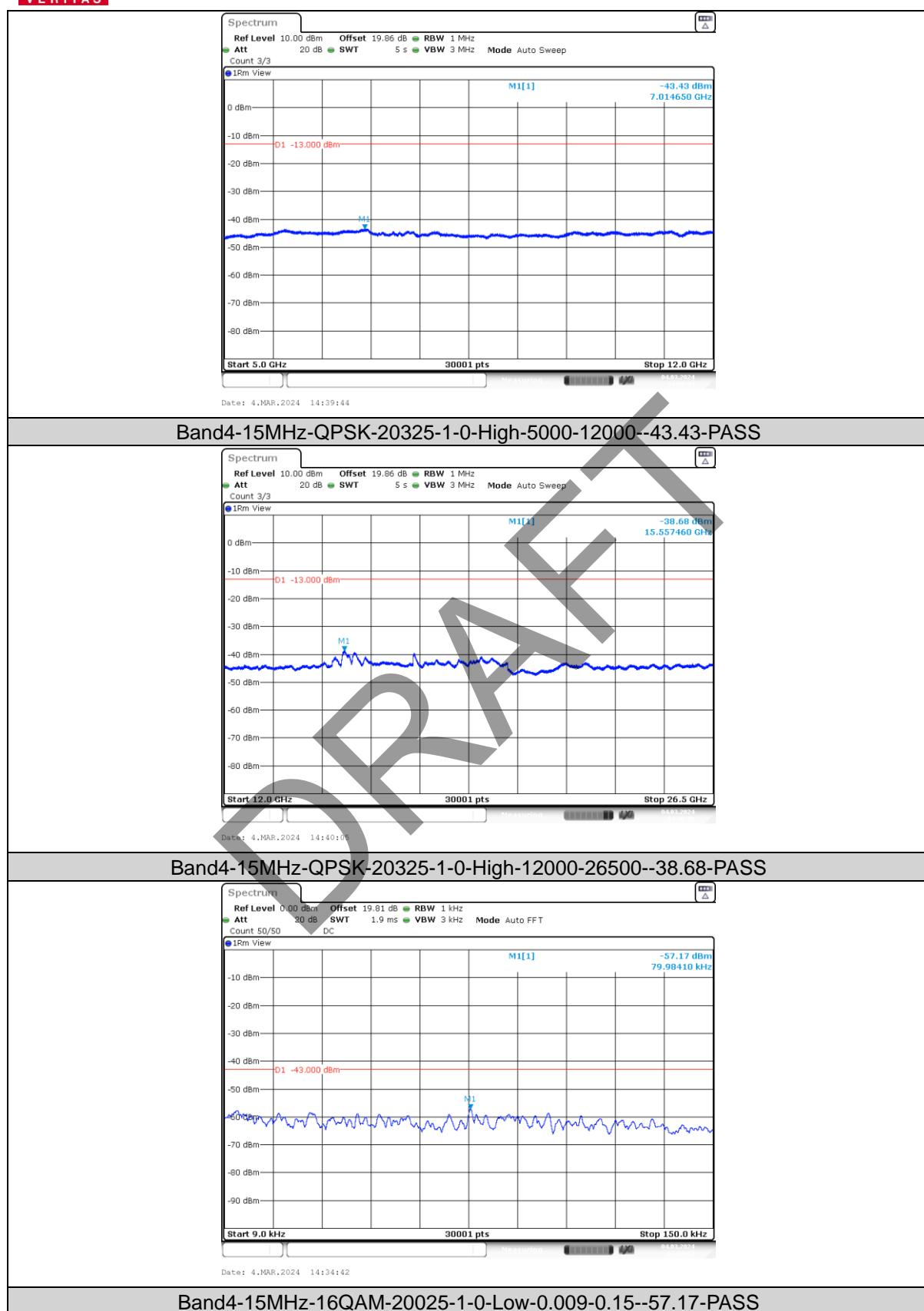


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



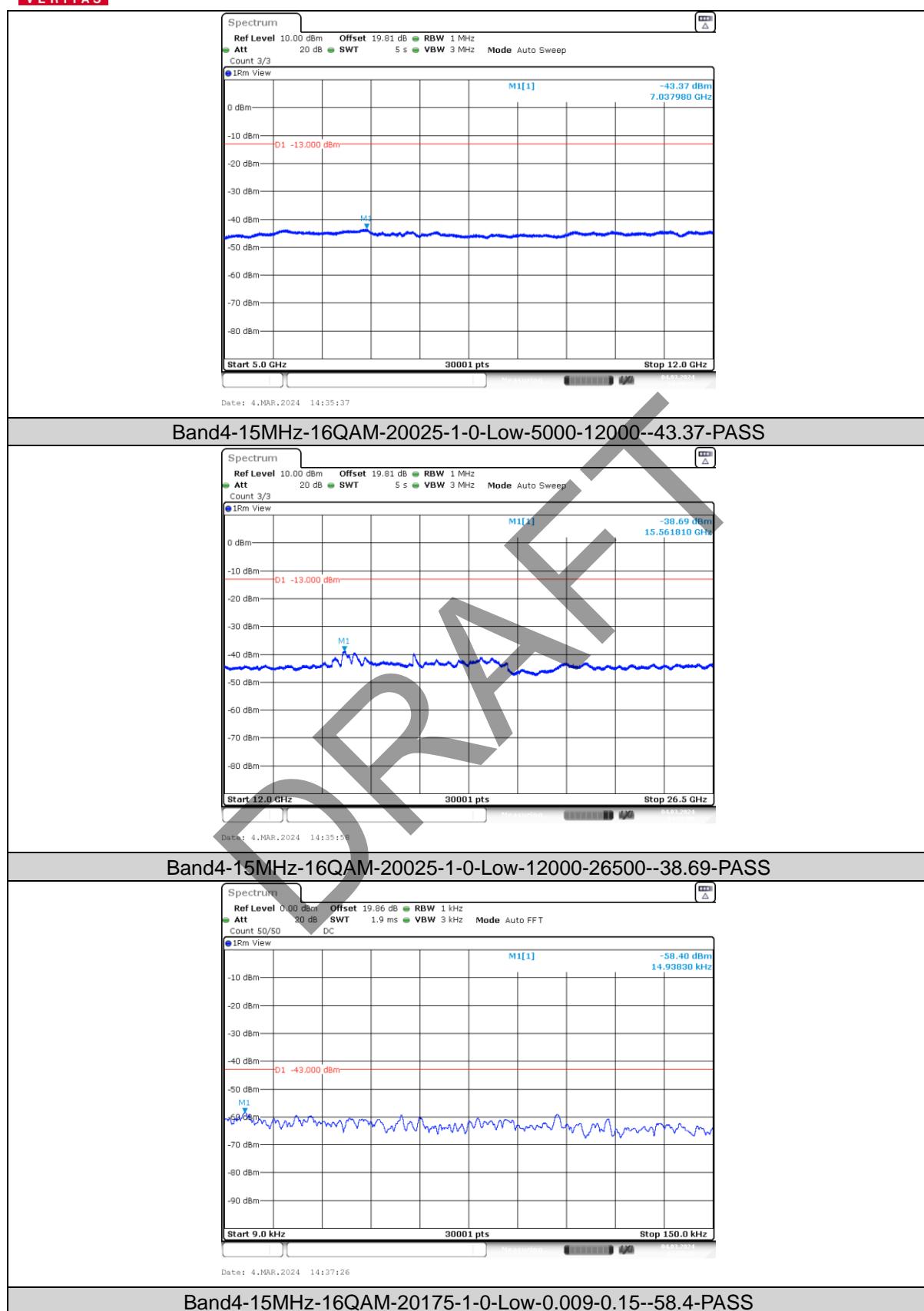
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



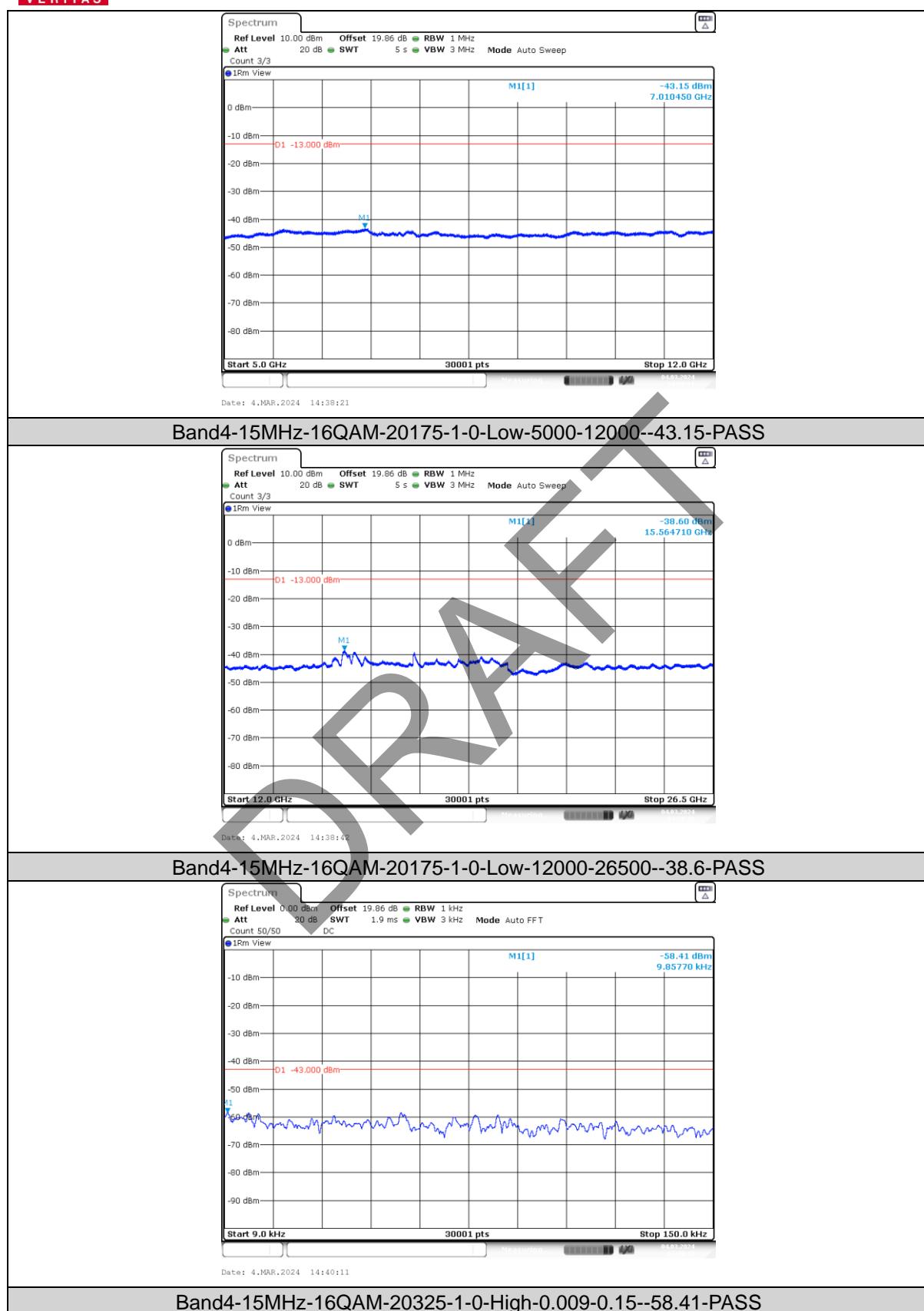
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



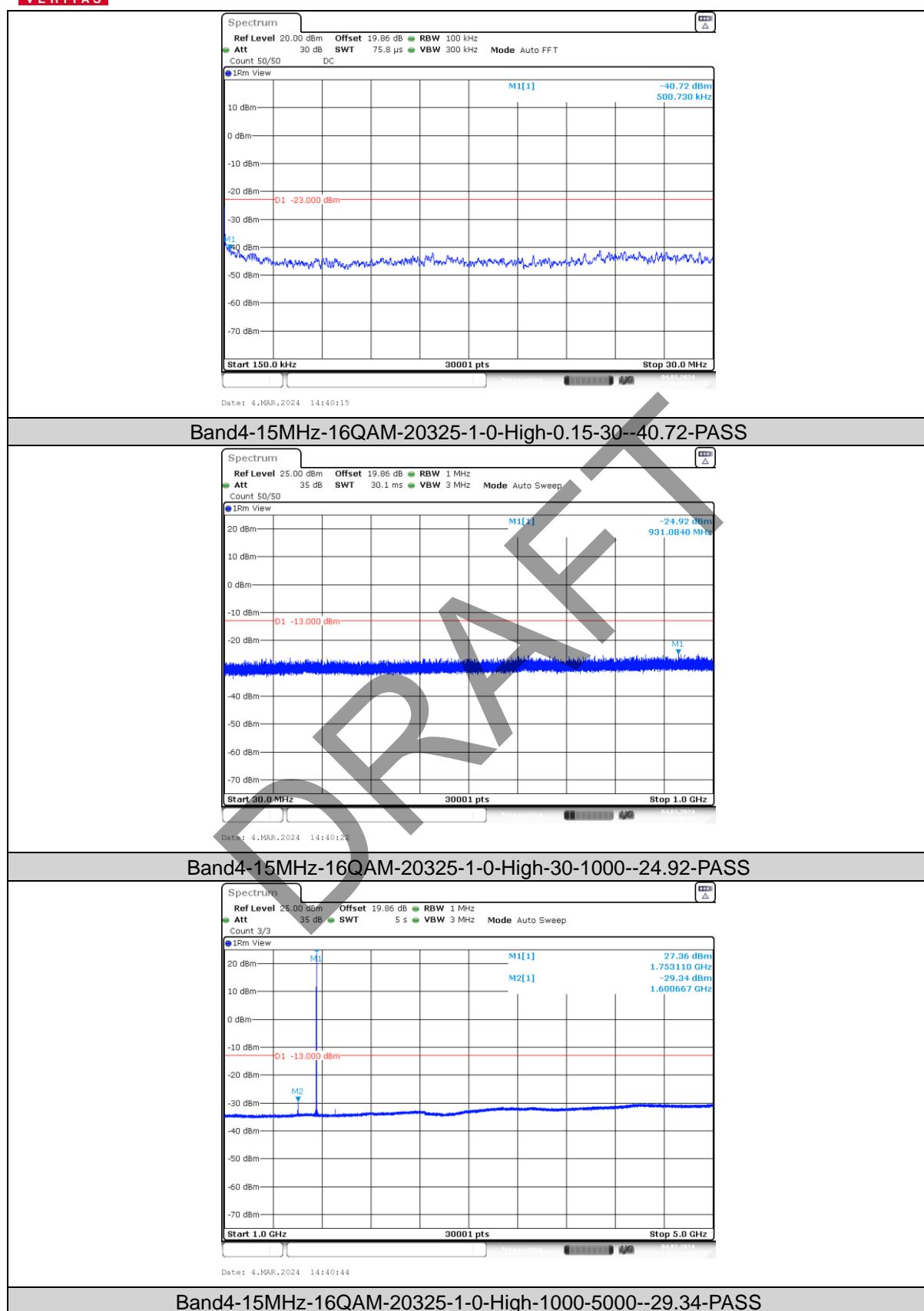
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



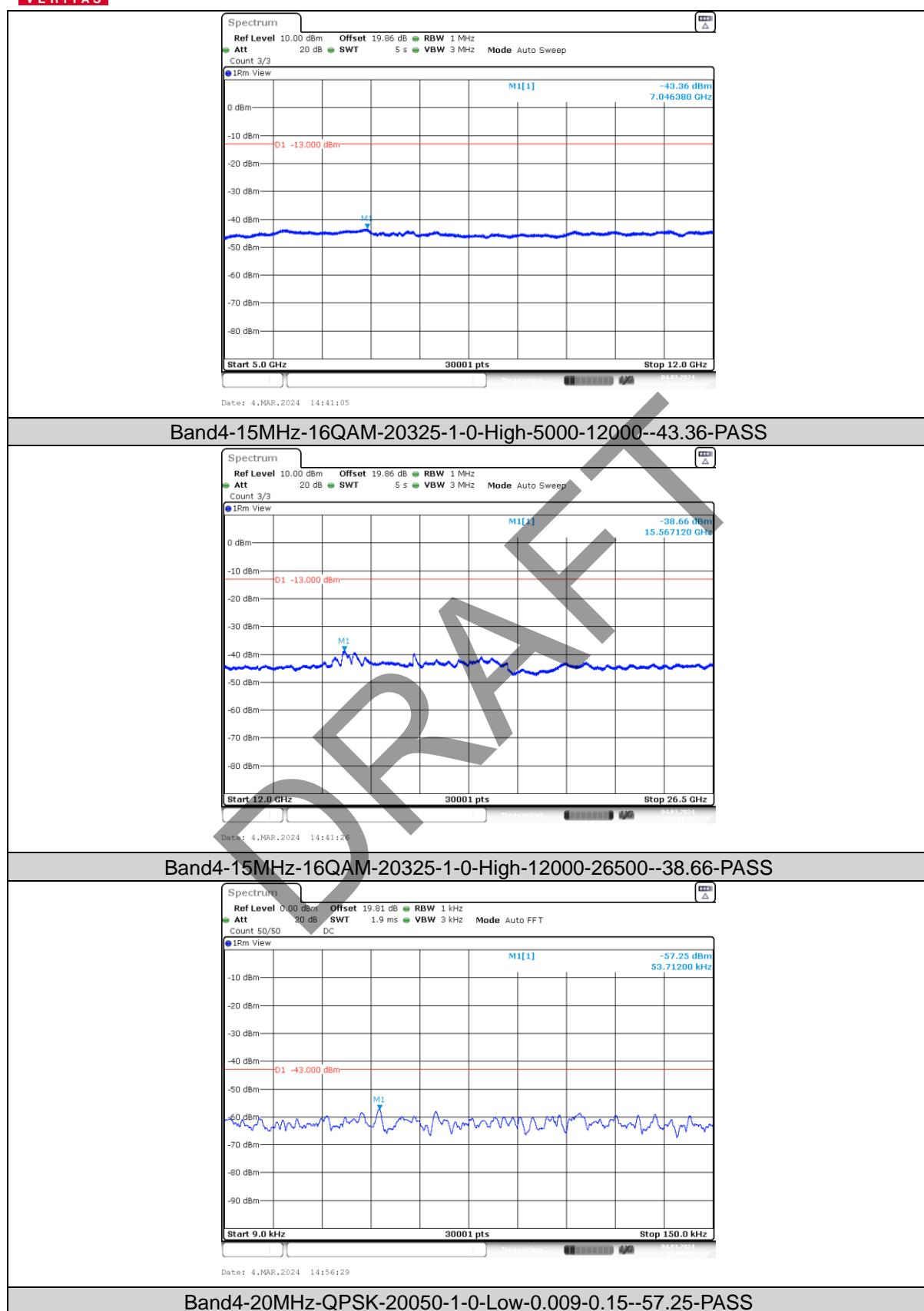
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



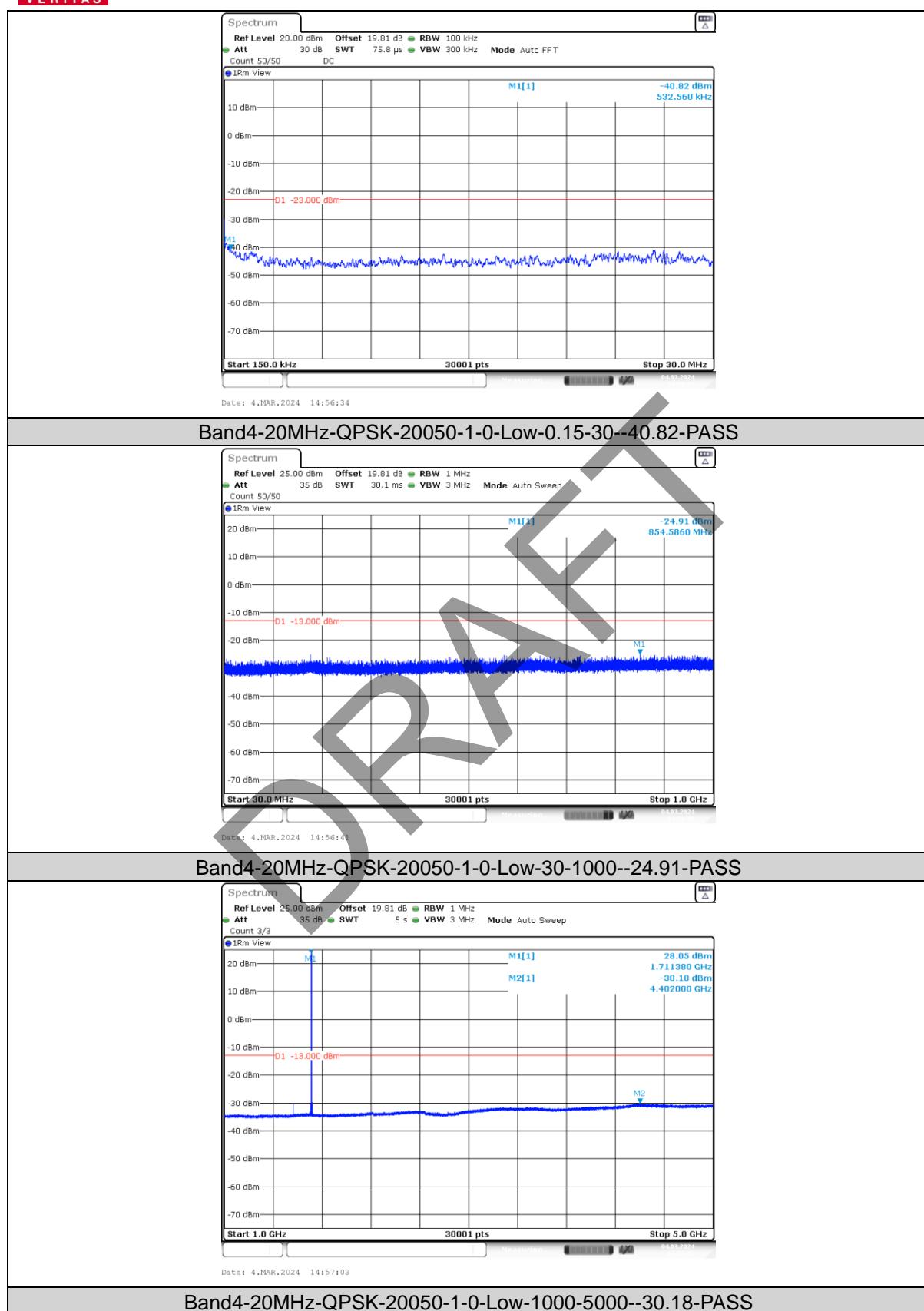
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

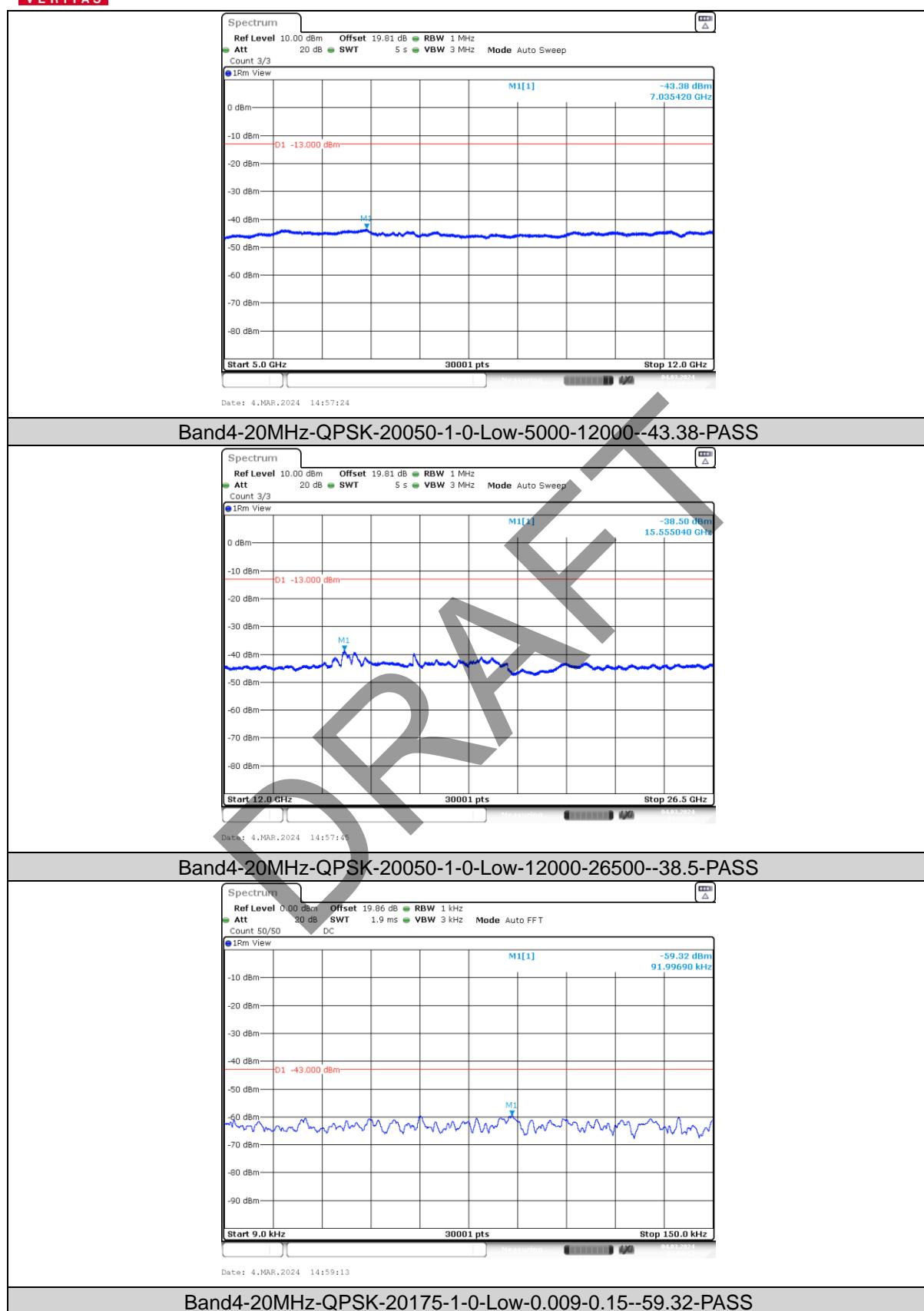


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



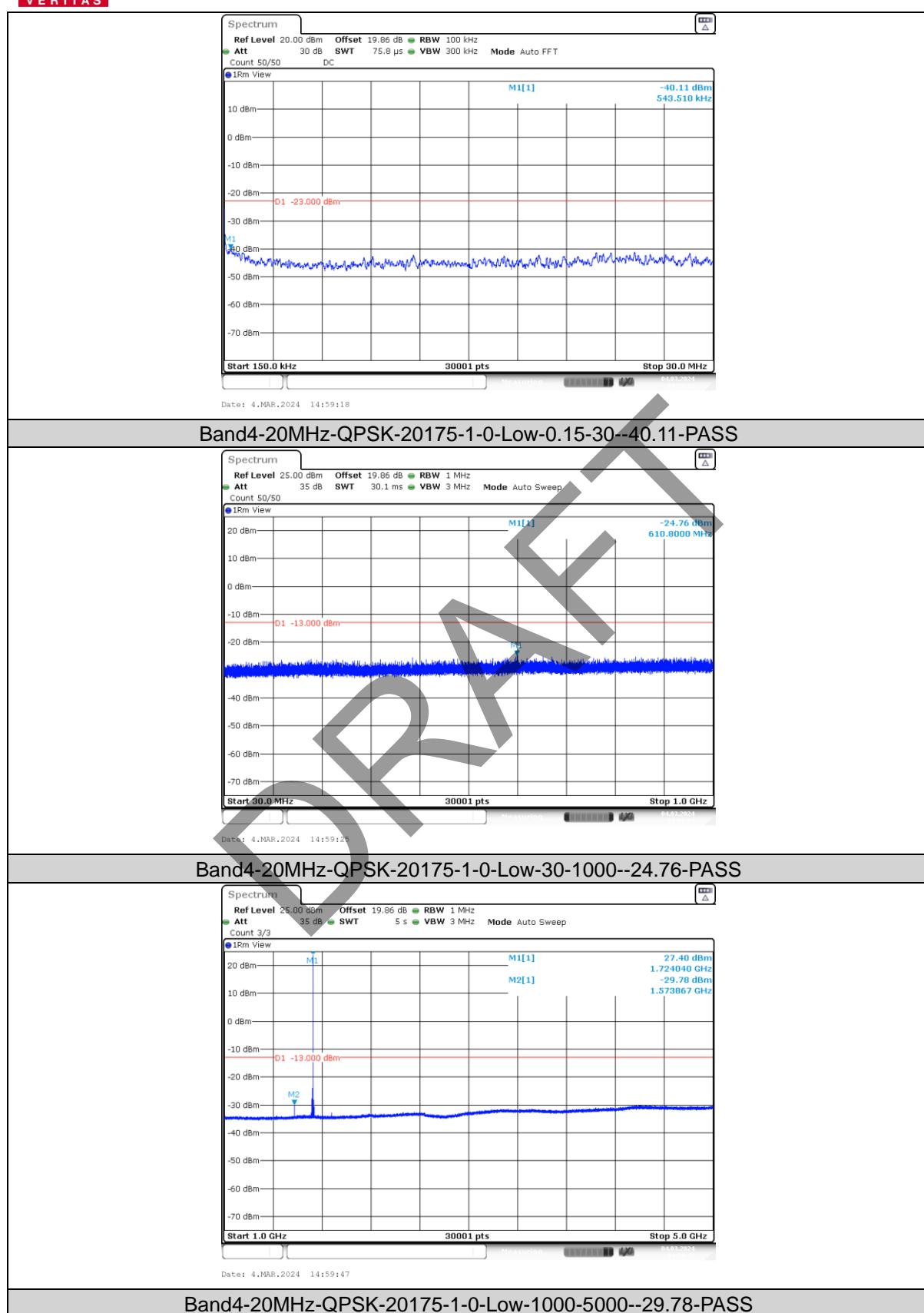
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

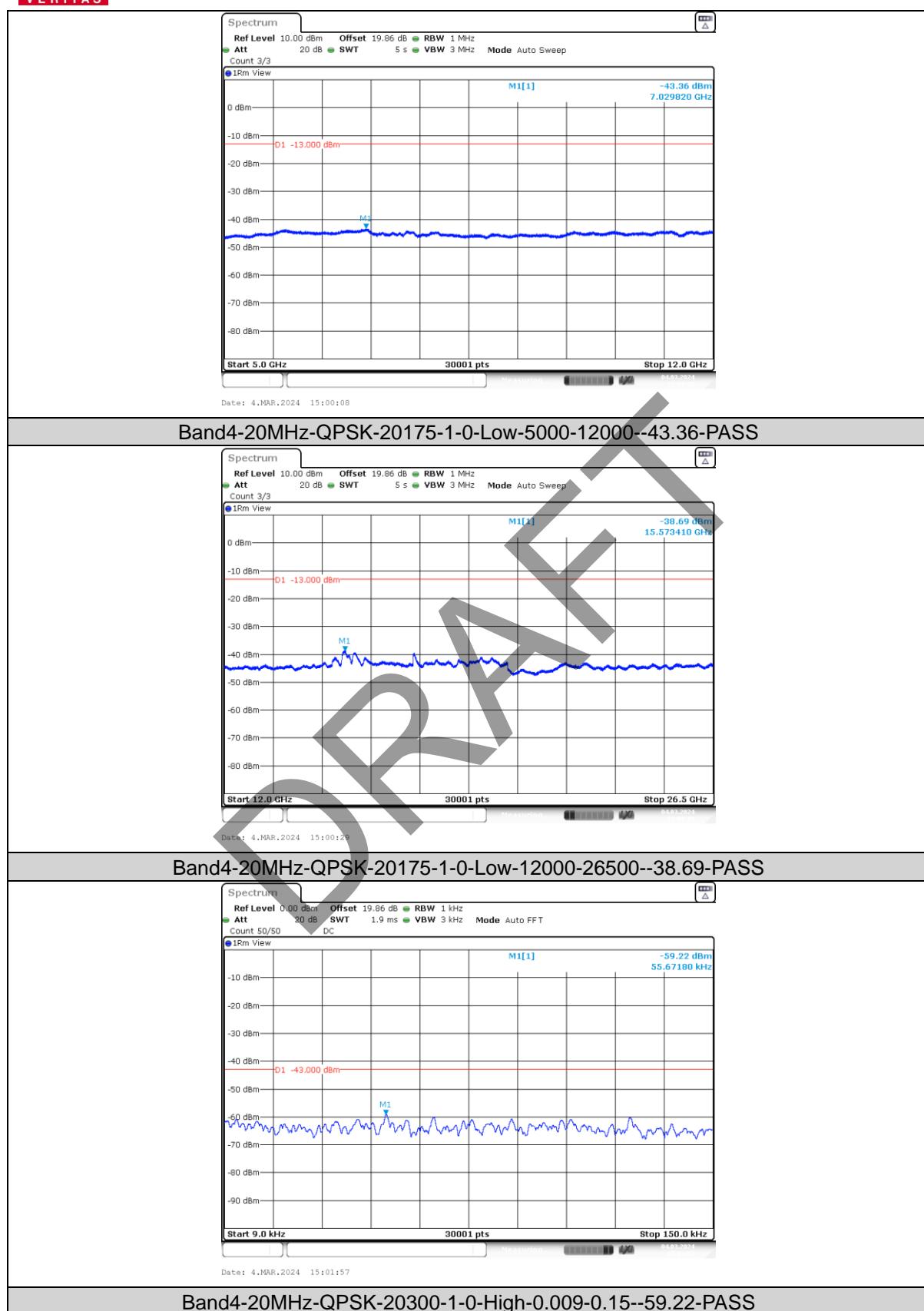


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



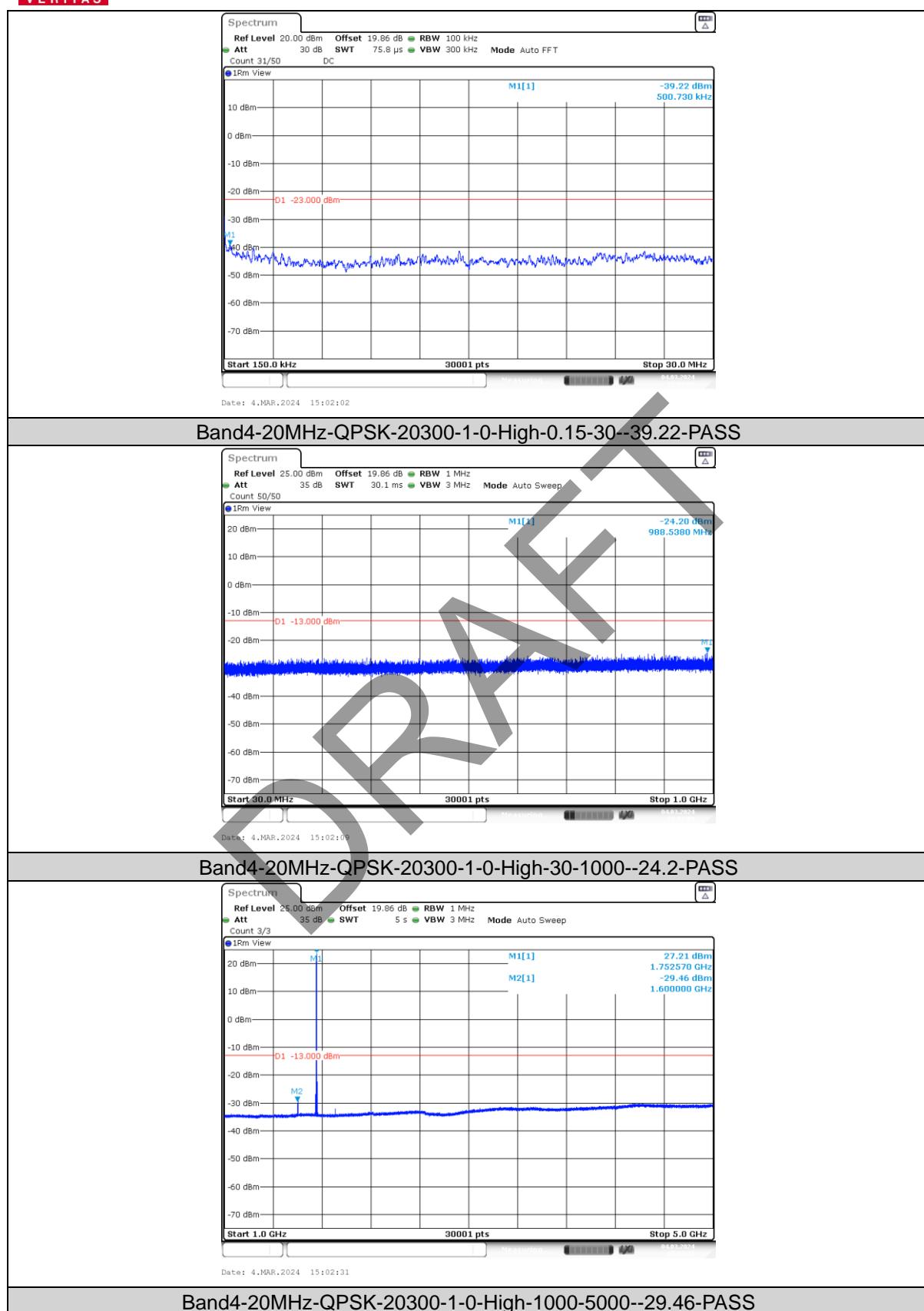
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

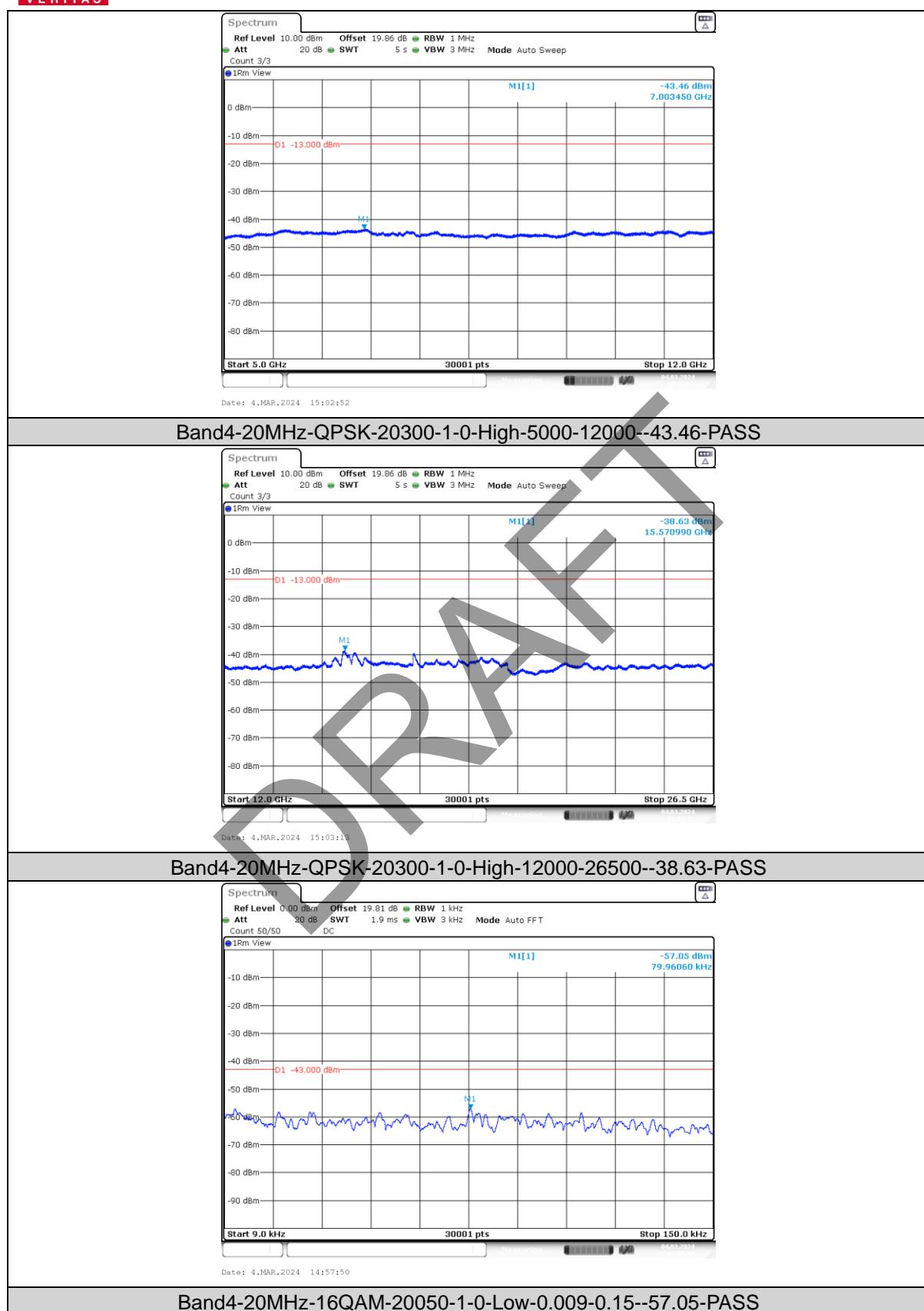


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



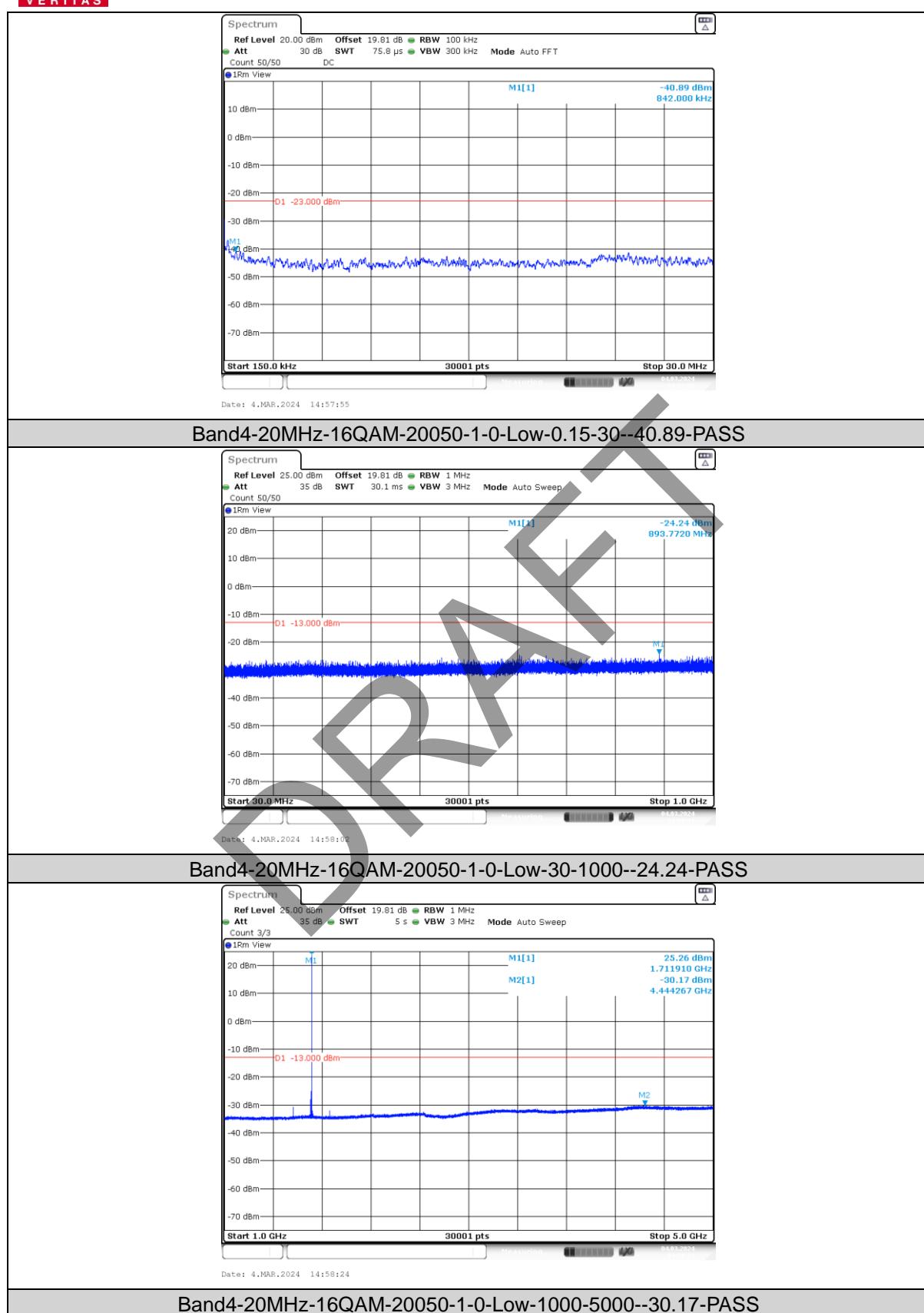
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



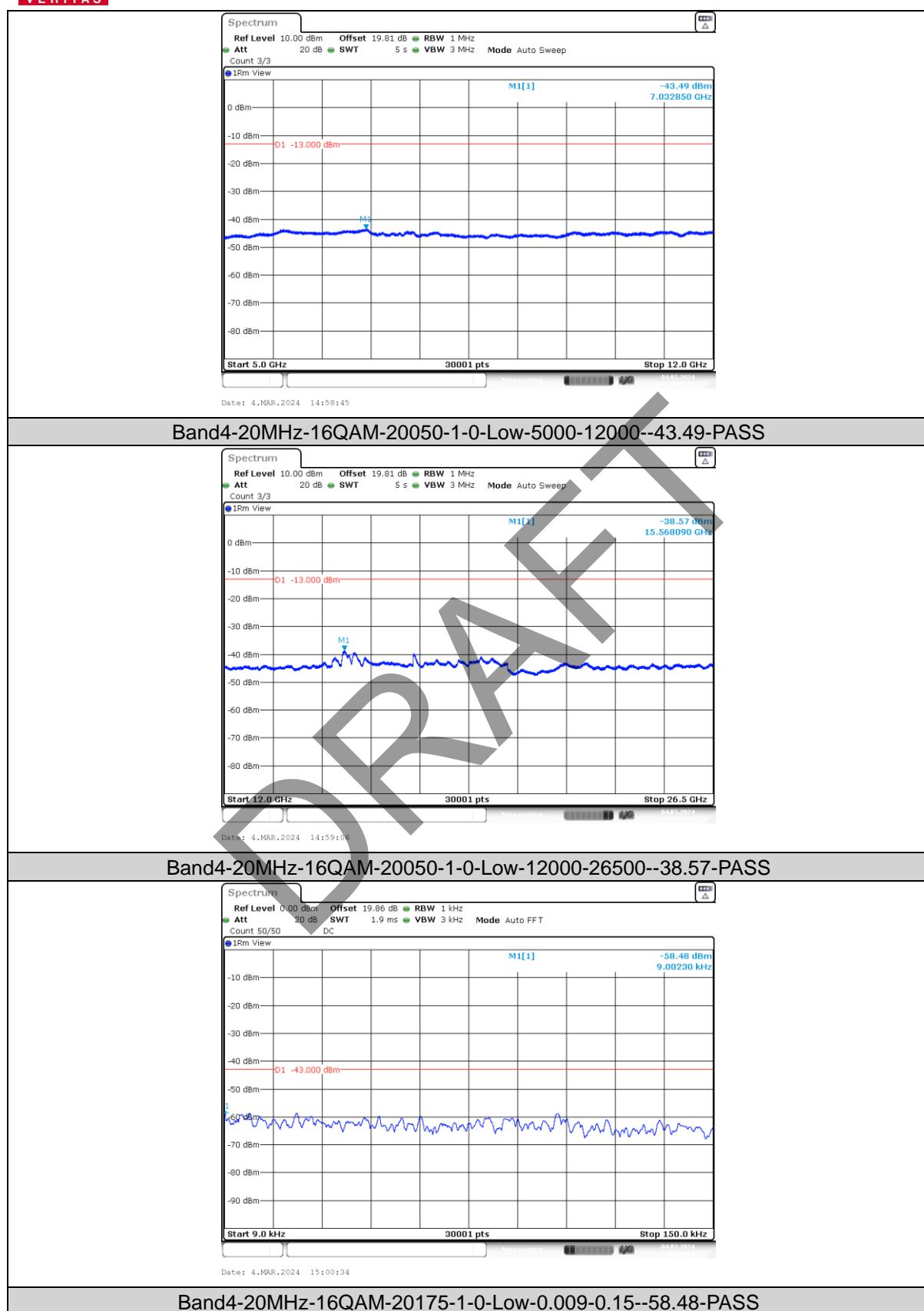
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



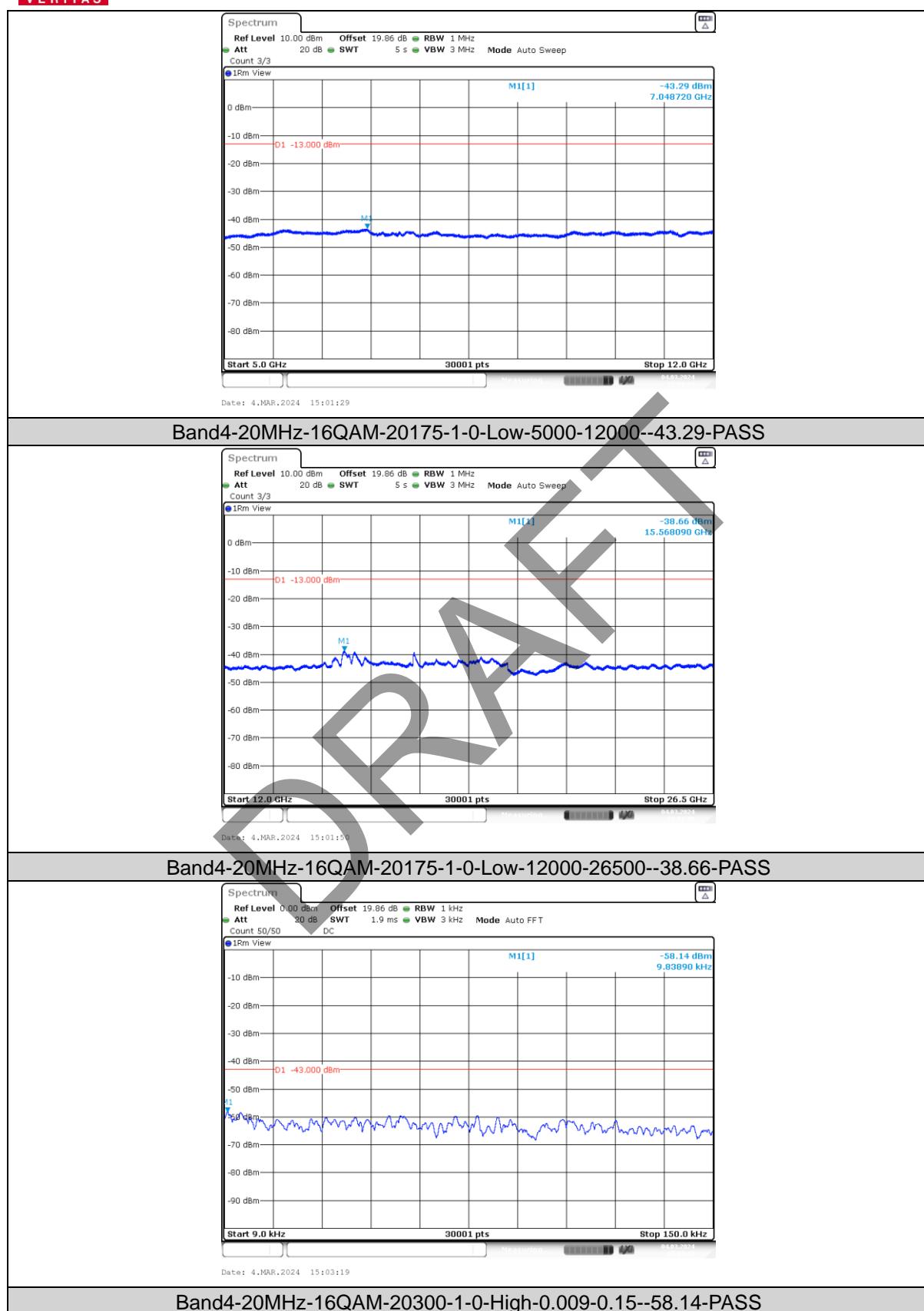
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



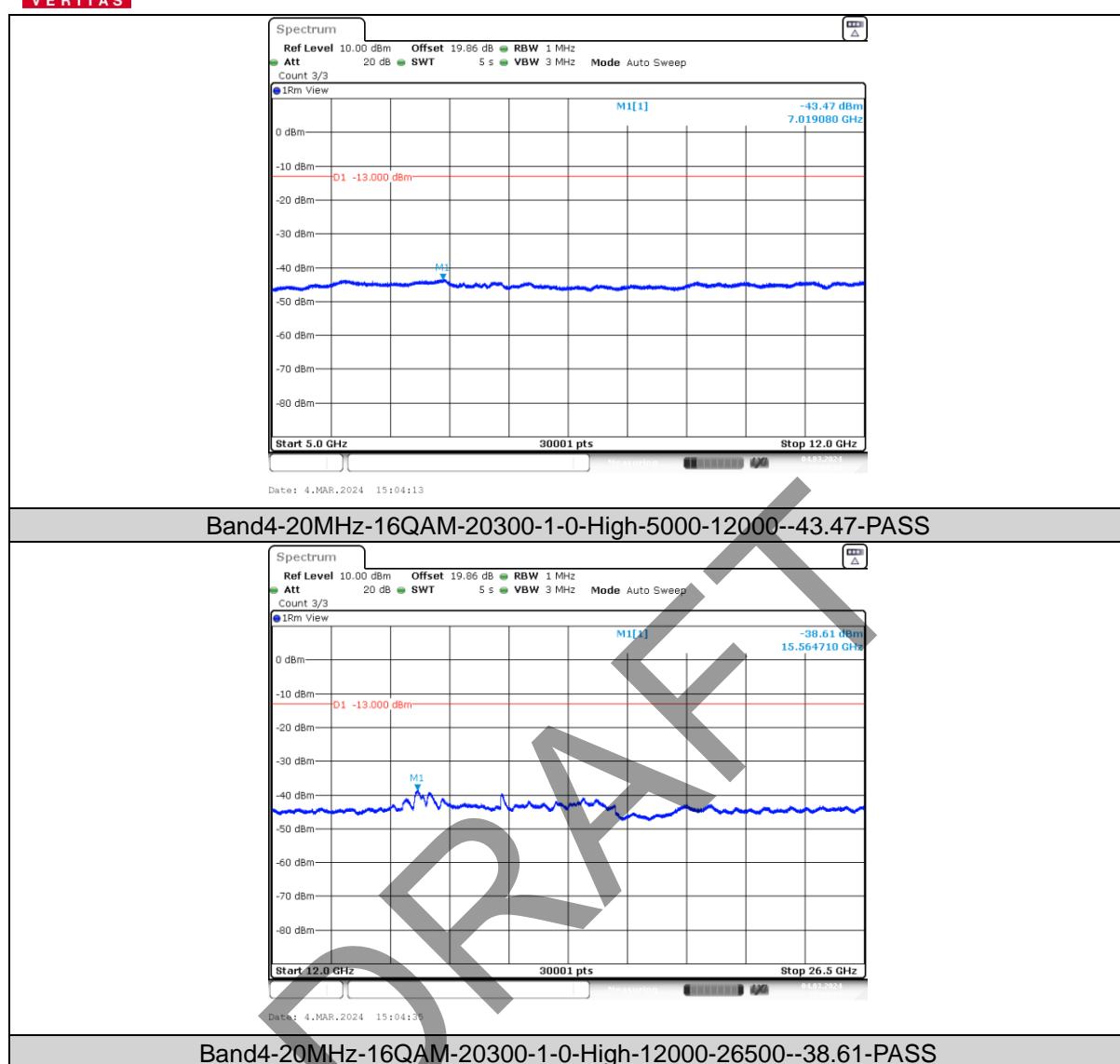
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04





Test Report No.: W7L-P23120015RI04

## Band 66 Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band66	1.4MHz	131979	QPSK	1	0	Low	0.009	0.15	-57.72	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	0.15	30	-40.49	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	30	1000	-24.61	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	1000	5000	-30.18	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	5000	12000	-43.29	PASS
Band66	1.4MHz	131979	QPSK	1	0	Low	12000	26500	-38.9	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	0.009	0.15	-58.86	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	0.15	30	-40.14	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	30	1000	-24.34	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	1000	5000	-29.34	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	5000	12000	-43.51	PASS
Band66	1.4MHz	132322	QPSK	1	0	Low	12000	26500	-38.76	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	0.009	0.15	-59.98	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	0.15	30	-39.69	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	30	1000	-24.68	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	1000	5000	-30.21	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	5000	12000	-43.24	PASS
Band66	1.4MHz	132665	QPSK	1	0	High	12000	26500	-38.51	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	0.009	0.15	-57.82	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	0.15	30	-40.12	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	30	1000	-24.58	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	1000	5000	-30.26	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	5000	12000	-43.53	PASS
Band66	1.4MHz	131979	16QAM	1	0	Low	12000	26500	-38.81	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	0.009	0.15	-59.6	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	0.15	30	-40.01	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	30	1000	-24.17	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	1000	5000	-29.68	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	5000	12000	-43.46	PASS
Band66	1.4MHz	132322	16QAM	1	0	Low	12000	26500	-38.8	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	0.009	0.15	-56.72	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	0.15	30	-40.01	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	30	1000	-24.8	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	1000	5000	-30.32	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	5000	12000	-43.08	PASS
Band66	1.4MHz	132665	16QAM	1	0	High	12000	26500	-38.76	PASS
Band66	3MHz	131987	QPSK	1	0	Low	0.009	0.15	-58.52	PASS
Band66	3MHz	131987	QPSK	1	0	Low	0.15	30	-40.8	PASS
Band66	3MHz	131987	QPSK	1	0	Low	30	1000	-24.4	PASS
Band66	3MHz	131987	QPSK	1	0	Low	1000	5000	-30.23	PASS
Band66	3MHz	131987	QPSK	1	0	Low	5000	12000	-43.57	PASS
Band66	3MHz	131987	QPSK	1	0	Low	12000	26500	-38.83	PASS
Band66	3MHz	132322	QPSK	1	0	Low	0.009	0.15	-58.83	PASS
Band66	3MHz	132322	QPSK	1	0	Low	0.15	30	-40.73	PASS
Band66	3MHz	132322	QPSK	1	0	Low	30	1000	-24.43	PASS
Band66	3MHz	132322	QPSK	1	0	Low	1000	5000	-29.9	PASS



## Test Report No.: W7L-P23120015RI04

Band66	3MHz	132322	QPSK	1	0	Low	5000	12000	-43.42	PASS
Band66	3MHz	132322	QPSK	1	0	Low	12000	26500	-38.65	PASS
Band66	3MHz	132657	QPSK	1	0	High	0.009	0.15	-59.99	PASS
Band66	3MHz	132657	QPSK	1	0	High	0.15	30	-38.98	PASS
Band66	3MHz	132657	QPSK	1	0	High	30	1000	-25.02	PASS
Band66	3MHz	132657	QPSK	1	0	High	1000	5000	-30.18	PASS
Band66	3MHz	132657	QPSK	1	0	High	5000	12000	-43.26	PASS
Band66	3MHz	132657	QPSK	1	0	High	12000	26500	-38.72	PASS
Band66	3MHz	131987	16QAM	1	0	Low	0.009	0.15	-58.22	PASS
Band66	3MHz	131987	16QAM	1	0	Low	0.15	30	-39.77	PASS
Band66	3MHz	131987	16QAM	1	0	Low	30	1000	-24.84	PASS
Band66	3MHz	131987	16QAM	1	0	Low	1000	5000	-30.19	PASS
Band66	3MHz	131987	16QAM	1	0	Low	5000	12000	-43.5	PASS
Band66	3MHz	131987	16QAM	1	0	Low	12000	26500	-38.75	PASS
Band66	3MHz	132322	16QAM	1	0	Low	0.009	0.15	-57.4	PASS
Band66	3MHz	132322	16QAM	1	0	Low	0.15	30	-40.31	PASS
Band66	3MHz	132322	16QAM	1	0	Low	30	1000	-24	PASS
Band66	3MHz	132322	16QAM	1	0	Low	1000	5000	-29.91	PASS
Band66	3MHz	132322	16QAM	1	0	Low	5000	12000	-43.42	PASS
Band66	3MHz	132322	16QAM	1	0	Low	12000	26500	-38.69	PASS
Band66	3MHz	132657	16QAM	1	0	High	0.009	0.15	-59.74	PASS
Band66	3MHz	132657	16QAM	1	0	High	0.15	30	-40.93	PASS
Band66	3MHz	132657	16QAM	1	0	High	30	1000	-24.25	PASS
Band66	3MHz	132657	16QAM	1	0	High	1000	5000	-30.34	PASS
Band66	3MHz	132657	16QAM	1	0	High	5000	12000	-43.44	PASS
Band66	3MHz	132657	16QAM	1	0	High	12000	26500	-38.82	PASS
Band66	5MHz	131997	QPSK	1	0	Low	0.009	0.15	-57.04	PASS
Band66	5MHz	131997	QPSK	1	0	Low	0.15	30	-39.48	PASS
Band66	5MHz	131997	QPSK	1	0	Low	30	1000	-24.58	PASS
Band66	5MHz	131997	QPSK	1	0	Low	1000	5000	-30.26	PASS
Band66	5MHz	131997	QPSK	1	0	Low	5000	12000	-43.26	PASS
Band66	5MHz	131997	QPSK	1	0	Low	12000	26500	-38.63	PASS
Band66	5MHz	132322	QPSK	1	0	Low	0.009	0.15	-59.68	PASS
Band66	5MHz	132322	QPSK	1	0	Low	0.15	30	-39.97	PASS
Band66	5MHz	132322	QPSK	1	0	Low	30	1000	-23.9	PASS
Band66	5MHz	132322	QPSK	1	0	Low	1000	5000	-30.31	PASS
Band66	5MHz	132322	QPSK	1	0	Low	5000	12000	-43.39	PASS
Band66	5MHz	132322	QPSK	1	0	Low	12000	26500	-38.86	PASS
Band66	5MHz	132647	QPSK	1	0	High	0.009	0.15	-58.92	PASS
Band66	5MHz	132647	QPSK	1	0	High	0.15	30	-40.36	PASS
Band66	5MHz	132647	QPSK	1	0	High	30	1000	-24.56	PASS
Band66	5MHz	132647	QPSK	1	0	High	1000	5000	-30.25	PASS
Band66	5MHz	132647	QPSK	1	0	High	5000	12000	-43.48	PASS
Band66	5MHz	132647	QPSK	1	0	High	12000	26500	-38.73	PASS
Band66	5MHz	131997	16QAM	1	0	Low	0.009	0.15	-56.23	PASS
Band66	5MHz	131997	16QAM	1	0	Low	0.15	30	-41.02	PASS
Band66	5MHz	131997	16QAM	1	0	Low	30	1000	-25.05	PASS
Band66	5MHz	131997	16QAM	1	0	Low	1000	5000	-30.38	PASS
Band66	5MHz	131997	16QAM	1	0	Low	5000	12000	-43.51	PASS
Band66	5MHz	131997	16QAM	1	0	Low	12000	26500	-38.59	PASS
Band66	5MHz	132322	16QAM	1	0	Low	0.009	0.15	-58.54	PASS
Band66	5MHz	132322	16QAM	1	0	Low	0.15	30	-38.31	PASS



## Test Report No.: W7L-P23120015RI04

Band66	5MHz	132322	16QAM	1	0	Low	30	1000	-24.64	PASS
Band66	5MHz	132322	16QAM	1	0	Low	1000	5000	-30.07	PASS
Band66	5MHz	132322	16QAM	1	0	Low	5000	12000	-43.33	PASS
Band66	5MHz	132322	16QAM	1	0	Low	12000	26500	-38.73	PASS
Band66	5MHz	132647	16QAM	1	0	High	0.009	0.15	-57.72	PASS
Band66	5MHz	132647	16QAM	1	0	High	0.15	30	-40.61	PASS
Band66	5MHz	132647	16QAM	1	0	High	30	1000	-25.08	PASS
Band66	5MHz	132647	16QAM	1	0	High	1000	5000	-30.23	PASS
Band66	5MHz	132647	16QAM	1	0	High	5000	12000	-43.17	PASS
Band66	5MHz	132647	16QAM	1	0	High	12000	26500	-38.74	PASS
Band66	10MHz	132022	QPSK	1	0	Low	0.009	0.15	-57.75	PASS
Band66	10MHz	132022	QPSK	1	0	Low	0.15	30	-40.47	PASS
Band66	10MHz	132022	QPSK	1	0	Low	30	1000	-24.79	PASS
Band66	10MHz	132022	QPSK	1	0	Low	1000	5000	-30.33	PASS
Band66	10MHz	132022	QPSK	1	0	Low	5000	12000	-43.41	PASS
Band66	10MHz	132022	QPSK	1	0	Low	12000	26500	-38.68	PASS
Band66	10MHz	132322	QPSK	1	0	Low	0.009	0.15	-59.17	PASS
Band66	10MHz	132322	QPSK	1	0	Low	0.15	30	-38.57	PASS
Band66	10MHz	132322	QPSK	1	0	Low	30	1000	-24.54	PASS
Band66	10MHz	132322	QPSK	1	0	Low	1000	5000	-30.22	PASS
Band66	10MHz	132322	QPSK	1	0	Low	5000	12000	-43.32	PASS
Band66	10MHz	132322	QPSK	1	0	Low	12000	26500	-38.59	PASS
Band66	10MHz	132622	QPSK	1	0	High	0.009	0.15	-59.28	PASS
Band66	10MHz	132622	QPSK	1	0	High	0.15	30	-40.4	PASS
Band66	10MHz	132622	QPSK	1	0	High	30	1000	-24.73	PASS
Band66	10MHz	132622	QPSK	1	0	High	1000	5000	-30.18	PASS
Band66	10MHz	132622	QPSK	1	0	High	5000	12000	-43.43	PASS
Band66	10MHz	132622	QPSK	1	0	High	12000	26500	-38.67	PASS
Band66	10MHz	132022	16QAM	1	0	Low	0.009	0.15	-57.31	PASS
Band66	10MHz	132022	16QAM	1	0	Low	0.15	30	-39.53	PASS
Band66	10MHz	132022	16QAM	1	0	Low	30	1000	-23.92	PASS
Band66	10MHz	132022	16QAM	1	0	Low	1000	5000	-30.13	PASS
Band66	10MHz	132022	16QAM	1	0	Low	5000	12000	-43.38	PASS
Band66	10MHz	132022	16QAM	1	0	Low	12000	26500	-38.71	PASS
Band66	10MHz	132322	16QAM	1	0	Low	0.009	0.15	-59.17	PASS
Band66	10MHz	132322	16QAM	1	0	Low	0.15	30	-40.77	PASS
Band66	10MHz	132322	16QAM	1	0	Low	30	1000	-24.5	PASS
Band66	10MHz	132322	16QAM	1	0	Low	1000	5000	-29.18	PASS
Band66	10MHz	132322	16QAM	1	0	Low	5000	12000	-43.52	PASS
Band66	10MHz	132322	16QAM	1	0	Low	12000	26500	-38.7	PASS
Band66	10MHz	132622	16QAM	1	0	High	0.009	0.15	-57.52	PASS
Band66	10MHz	132622	16QAM	1	0	High	0.15	30	-40.27	PASS
Band66	10MHz	132622	16QAM	1	0	High	30	1000	-24.5	PASS
Band66	10MHz	132622	16QAM	1	0	High	1000	5000	-30.07	PASS
Band66	10MHz	132622	16QAM	1	0	High	5000	12000	-43.38	PASS
Band66	10MHz	132622	16QAM	1	0	High	12000	26500	-38.83	PASS
Band66	15MHz	132047	QPSK	1	0	Low	0.009	0.15	-57.49	PASS
Band66	15MHz	132047	QPSK	1	0	Low	0.15	30	-40.76	PASS
Band66	15MHz	132047	QPSK	1	0	Low	30	1000	-24.4	PASS
Band66	15MHz	132047	QPSK	1	0	Low	1000	5000	-30.3	PASS
Band66	15MHz	132047	QPSK	1	0	Low	5000	12000	-43.39	PASS
Band66	15MHz	132047	QPSK	1	0	Low	12000	26500	-38.77	PASS



## Test Report No.: W7L-P23120015RI04

Band66	15MHz	132322	QPSK	1	0	Low	0.009	0.15	-59.39	PASS
Band66	15MHz	132322	QPSK	1	0	Low	0.15	30	-40.23	PASS
Band66	15MHz	132322	QPSK	1	0	Low	30	1000	-24.71	PASS
Band66	15MHz	132322	QPSK	1	0	Low	1000	5000	-30.27	PASS
Band66	15MHz	132322	QPSK	1	0	Low	5000	12000	-43.4	PASS
Band66	15MHz	132322	QPSK	1	0	Low	12000	26500	-38.83	PASS
Band66	15MHz	132597	QPSK	1	0	High	0.009	0.15	-59	PASS
Band66	15MHz	132597	QPSK	1	0	High	0.15	30	-40.38	PASS
Band66	15MHz	132597	QPSK	1	0	High	30	1000	-24.5	PASS
Band66	15MHz	132597	QPSK	1	0	High	1000	5000	-30.31	PASS
Band66	15MHz	132597	QPSK	1	0	High	5000	12000	-43.45	PASS
Band66	15MHz	132597	QPSK	1	0	High	12000	26500	-38.61	PASS
Band66	15MHz	132047	16QAM	1	0	Low	0.009	0.15	-56.83	PASS
Band66	15MHz	132047	16QAM	1	0	Low	0.15	30	-39.61	PASS
Band66	15MHz	132047	16QAM	1	0	Low	30	1000	-24.82	PASS
Band66	15MHz	132047	16QAM	1	0	Low	1000	5000	-30.17	PASS
Band66	15MHz	132047	16QAM	1	0	Low	5000	12000	-43.54	PASS
Band66	15MHz	132047	16QAM	1	0	Low	12000	26500	-38.55	PASS
Band66	15MHz	132322	16QAM	1	0	Low	0.009	0.15	-58.59	PASS
Band66	15MHz	132322	16QAM	1	0	Low	0.15	30	-39.73	PASS
Band66	15MHz	132322	16QAM	1	0	Low	30	1000	-23.45	PASS
Band66	15MHz	132322	16QAM	1	0	Low	1000	5000	-29	PASS
Band66	15MHz	132322	16QAM	1	0	Low	5000	12000	-43.48	PASS
Band66	15MHz	132322	16QAM	1	0	Low	12000	26500	-38.57	PASS
Band66	15MHz	132597	16QAM	1	0	High	0.009	0.15	-57.77	PASS
Band66	15MHz	132597	16QAM	1	0	High	0.15	30	-40.02	PASS
Band66	15MHz	132597	16QAM	1	0	High	30	1000	-24.55	PASS
Band66	15MHz	132597	16QAM	1	0	High	1000	5000	-30.28	PASS
Band66	15MHz	132597	16QAM	1	0	High	5000	12000	-43.28	PASS
Band66	15MHz	132597	16QAM	1	0	High	12000	26500	-38.56	PASS
Band66	20MHz	132072	QPSK	1	0	Low	0.009	0.15	-57.77	PASS
Band66	20MHz	132072	QPSK	1	0	Low	0.15	30	-39.63	PASS
Band66	20MHz	132072	QPSK	1	0	Low	30	1000	-24.85	PASS
Band66	20MHz	132072	QPSK	1	0	Low	1000	5000	-30.07	PASS
Band66	20MHz	132072	QPSK	1	0	Low	5000	12000	-43.33	PASS
Band66	20MHz	132072	QPSK	1	0	Low	12000	26500	-38.76	PASS
Band66	20MHz	132322	QPSK	1	0	Low	0.009	0.15	-59.36	PASS
Band66	20MHz	132322	QPSK	1	0	Low	0.15	30	-41.38	PASS
Band66	20MHz	132322	QPSK	1	0	Low	30	1000	-24.76	PASS
Band66	20MHz	132322	QPSK	1	0	Low	1000	5000	-30.16	PASS
Band66	20MHz	132322	QPSK	1	0	Low	5000	12000	-43.43	PASS
Band66	20MHz	132322	QPSK	1	0	Low	12000	26500	-38.75	PASS
Band66	20MHz	132572	QPSK	1	0	High	0.009	0.15	-59.28	PASS
Band66	20MHz	132572	QPSK	1	0	High	0.15	30	-40.2	PASS
Band66	20MHz	132572	QPSK	1	0	High	30	1000	-24.39	PASS
Band66	20MHz	132572	QPSK	1	0	High	1000	5000	-30.13	PASS
Band66	20MHz	132572	QPSK	1	0	High	5000	12000	-43.49	PASS
Band66	20MHz	132572	QPSK	1	0	High	12000	26500	-38.69	PASS
Band66	20MHz	132072	16QAM	1	0	Low	0.009	0.15	-56.23	PASS
Band66	20MHz	132072	16QAM	1	0	Low	0.15	30	-40.88	PASS
Band66	20MHz	132072	16QAM	1	0	Low	30	1000	-24.63	PASS
Band66	20MHz	132072	16QAM	1	0	Low	1000	5000	-30.27	PASS

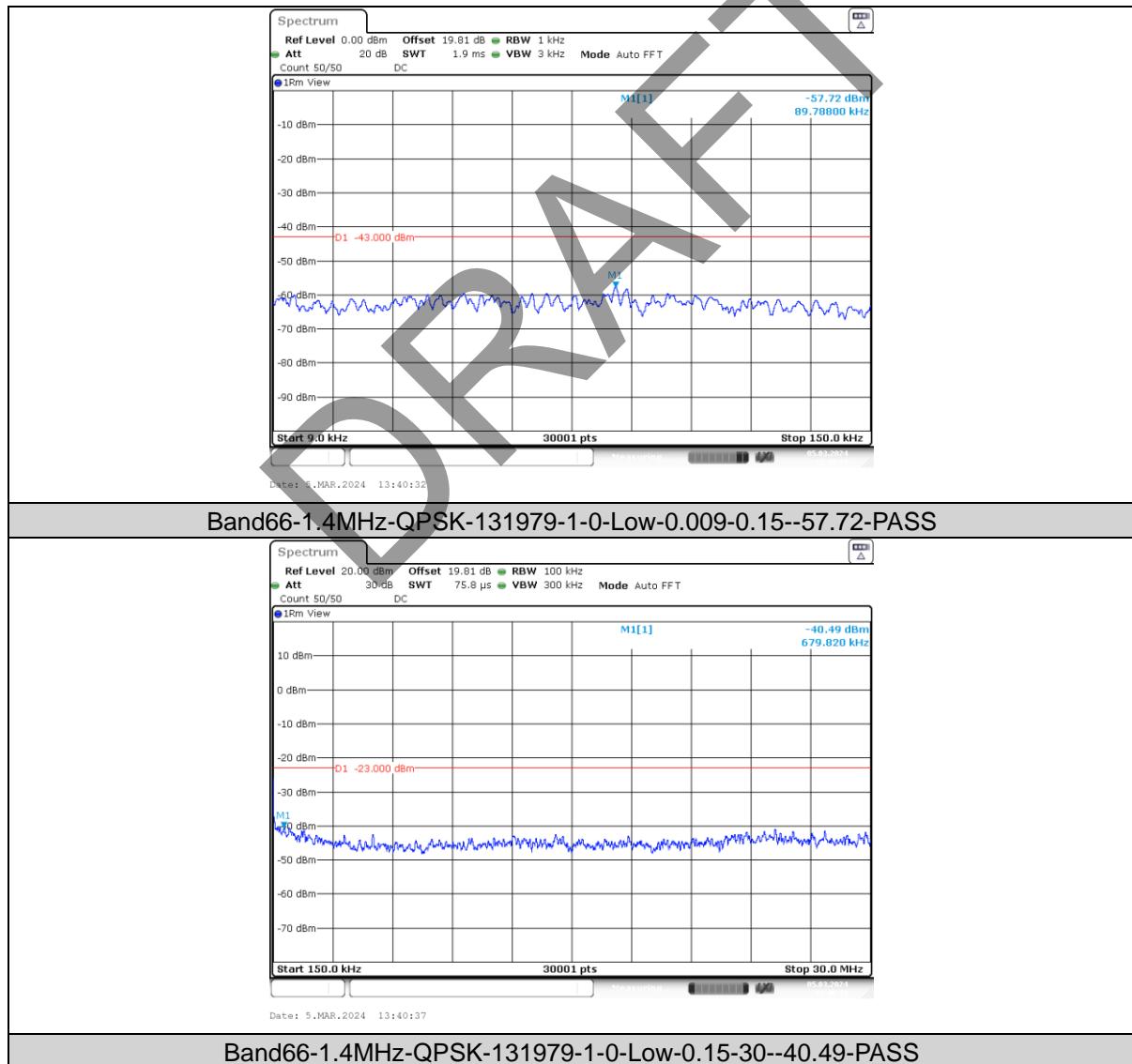


**Test Report No.: W7L-P23120015RI04**

BUREAU  
VERITAS

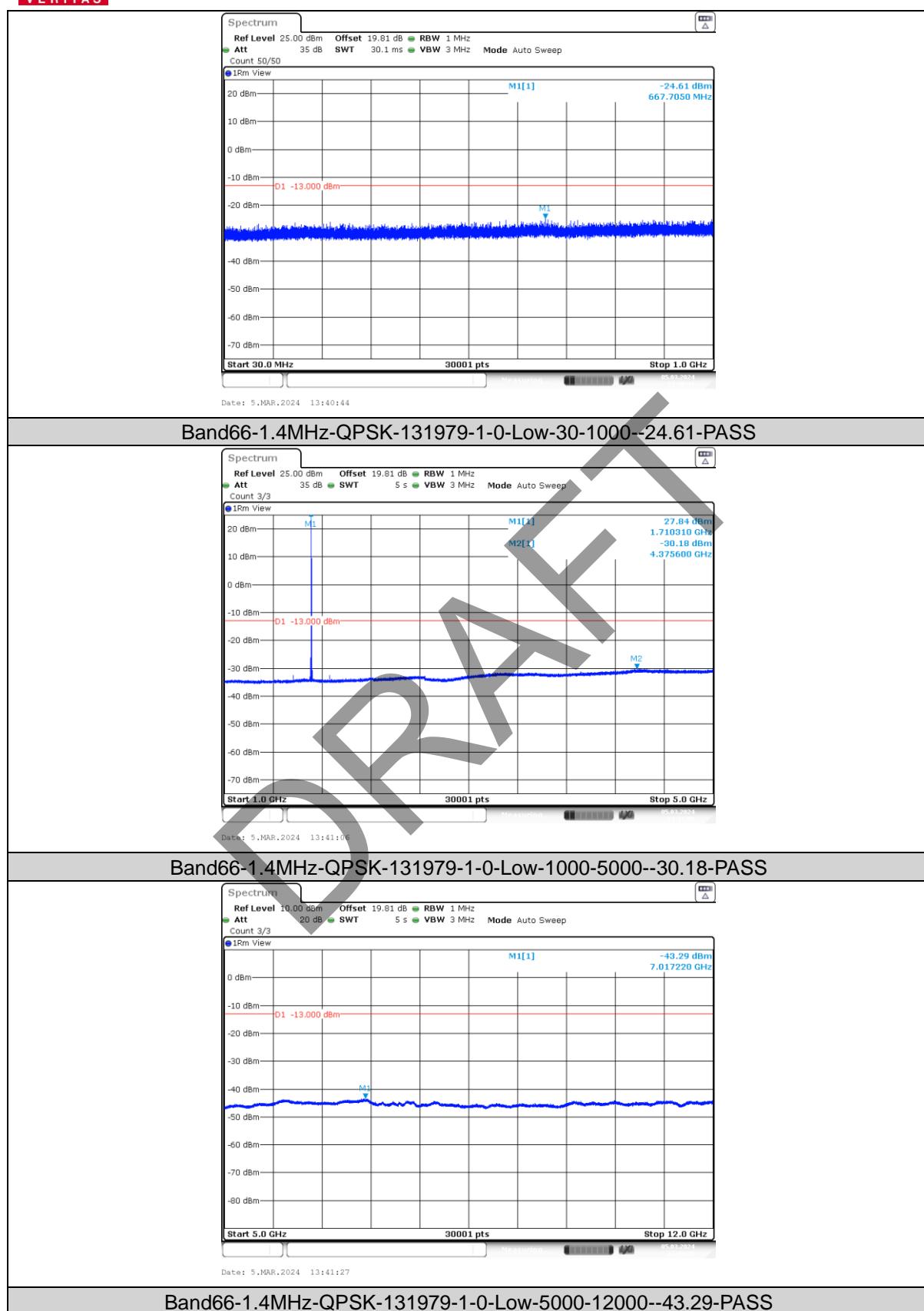
Band66	20MHz	132072	16QAM	1	0	Low	5000	12000	-43.5	PASS
Band66	20MHz	132072	16QAM	1	0	Low	12000	26500	-38.61	PASS
Band66	20MHz	132322	16QAM	1	0	Low	0.009	0.15	-57.84	PASS
Band66	20MHz	132322	16QAM	1	0	Low	0.15	30	-39.89	PASS
Band66	20MHz	132322	16QAM	1	0	Low	30	1000	-24.82	PASS
Band66	20MHz	132322	16QAM	1	0	Low	1000	5000	-29.26	PASS
Band66	20MHz	132322	16QAM	1	0	Low	5000	12000	-43.48	PASS
Band66	20MHz	132322	16QAM	1	0	Low	12000	26500	-38.61	PASS
Band66	20MHz	132572	16QAM	1	0	High	0.009	0.15	-57.59	PASS
Band66	20MHz	132572	16QAM	1	0	High	0.15	30	-40.09	PASS
Band66	20MHz	132572	16QAM	1	0	High	30	1000	-24.58	PASS
Band66	20MHz	132572	16QAM	1	0	High	1000	5000	-30.19	PASS
Band66	20MHz	132572	16QAM	1	0	High	5000	12000	-43.46	PASS
Band66	20MHz	132572	16QAM	1	0	High	12000	26500	-38.81	PASS

## Band 66 Test Graphs





## Test Report No.: W7L-P23120015RI04



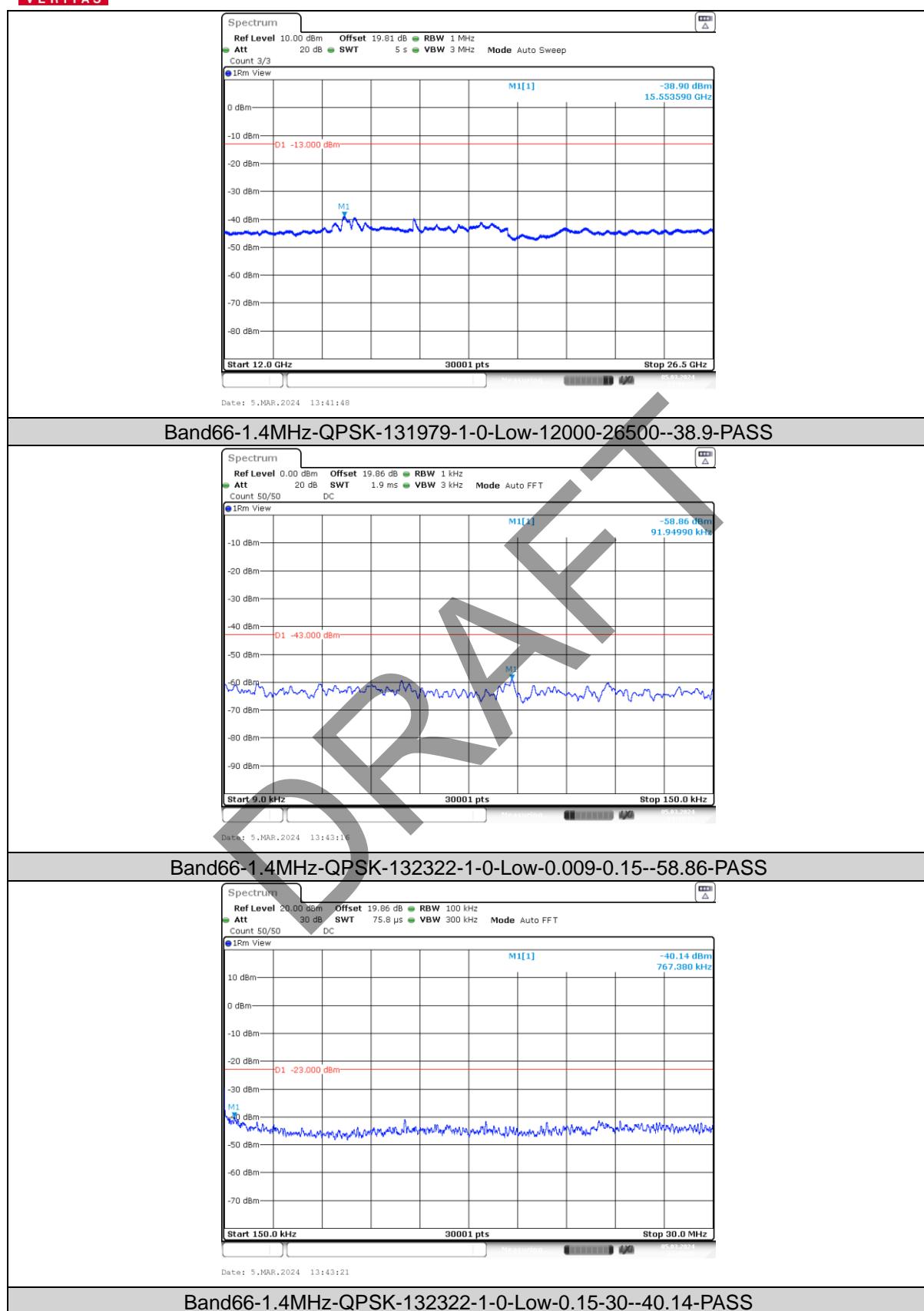
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

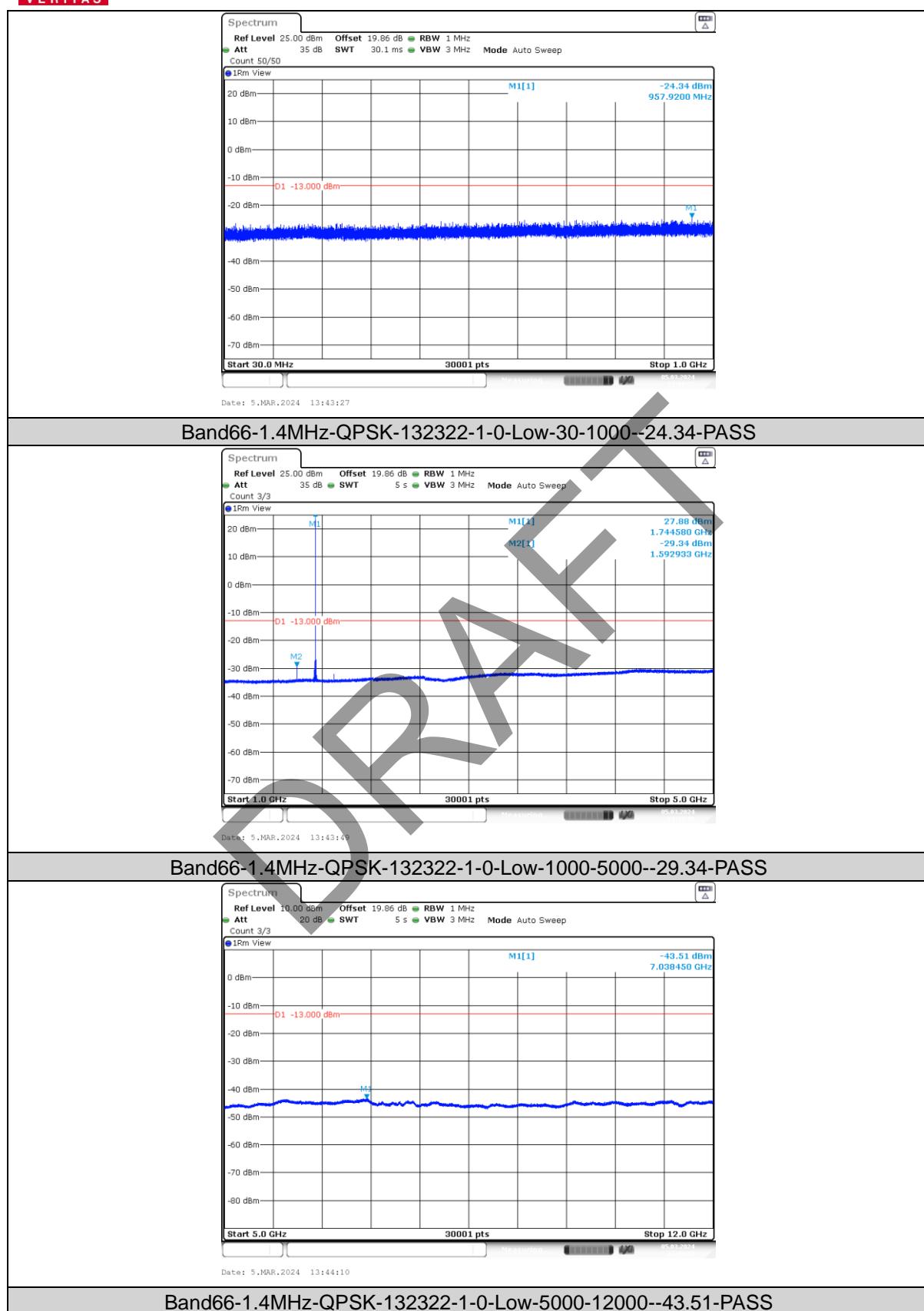


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



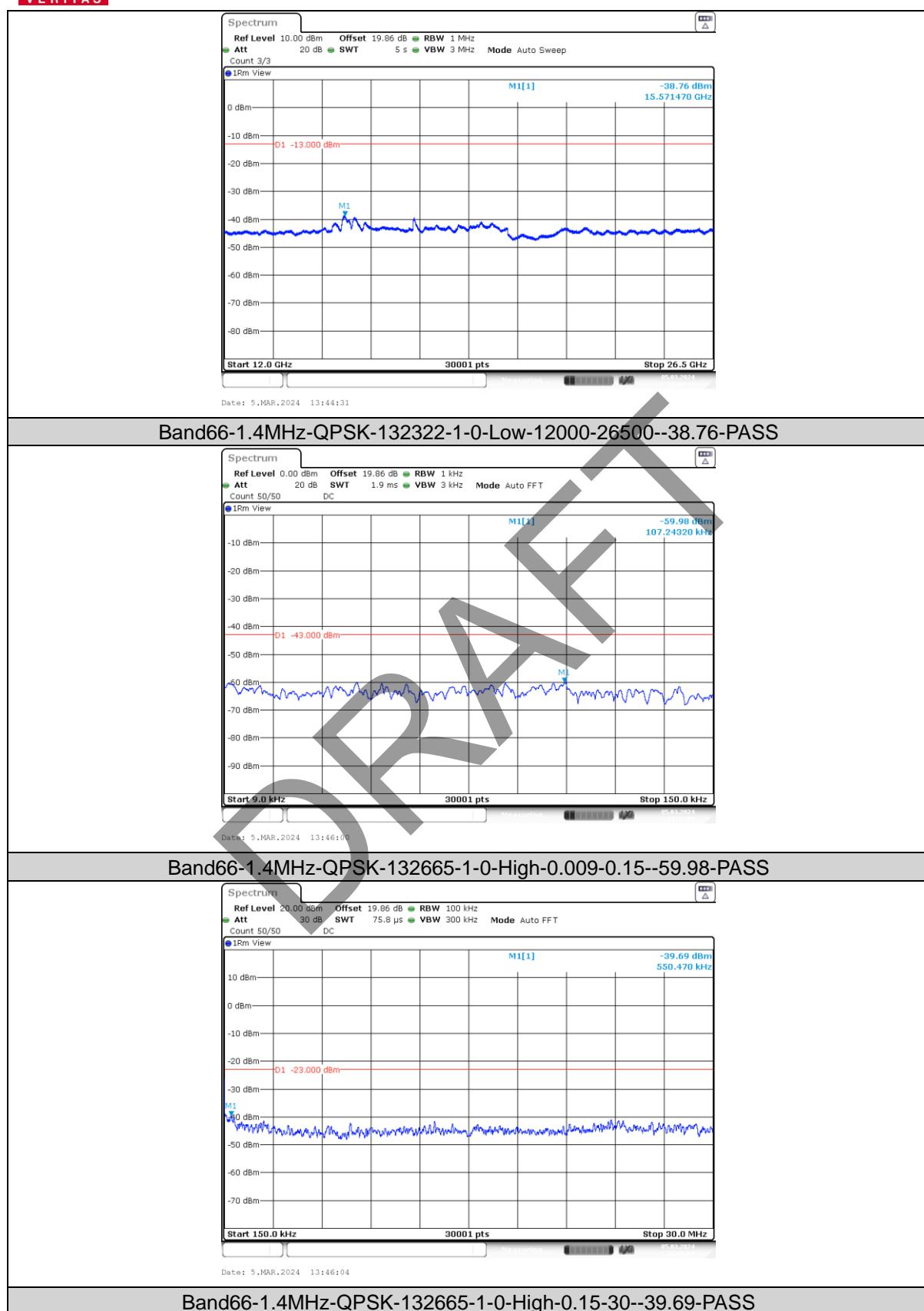
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

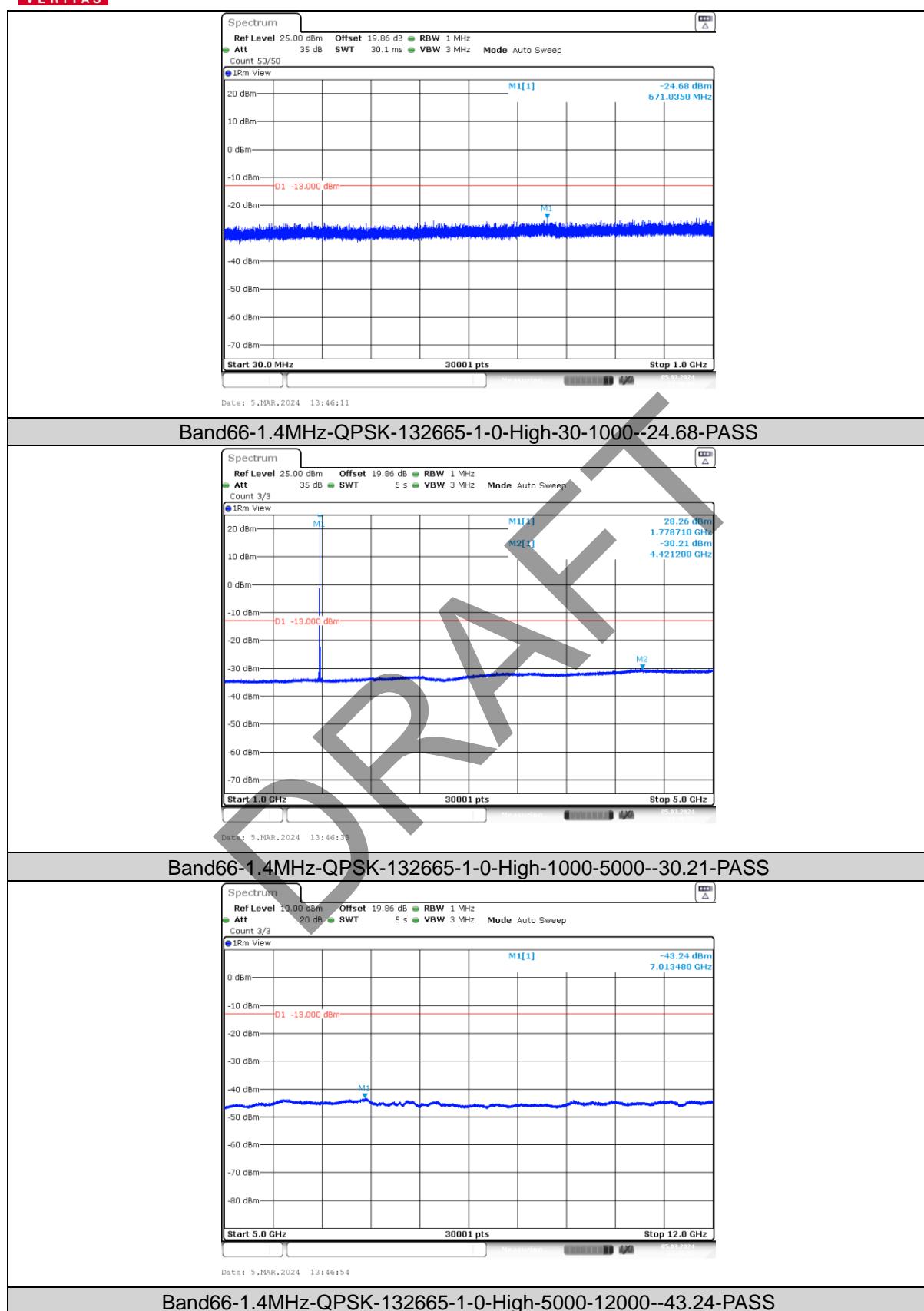


## Test Report No.: W7L-P23120015RI04



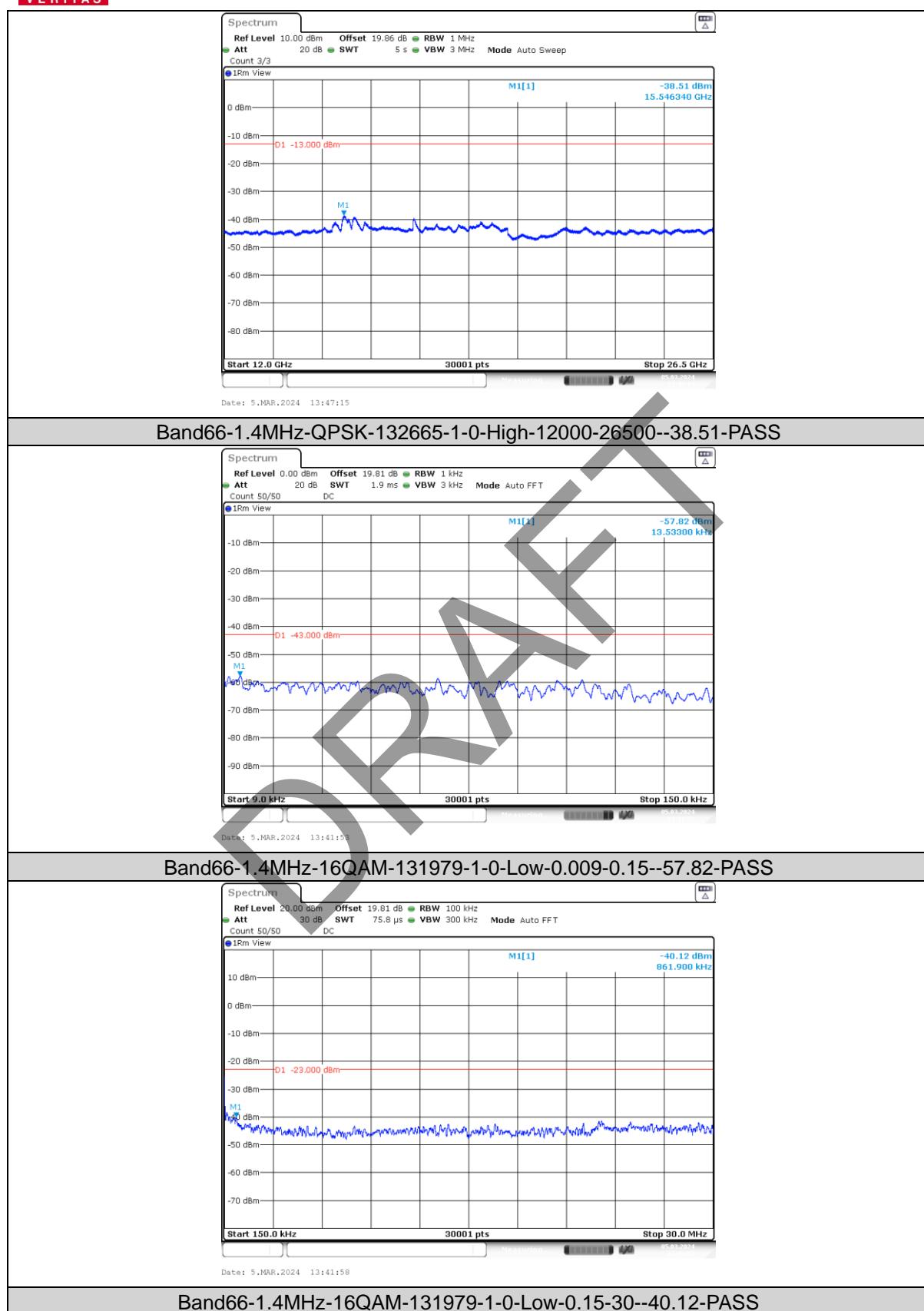


## Test Report No.: W7L-P23120015RI04



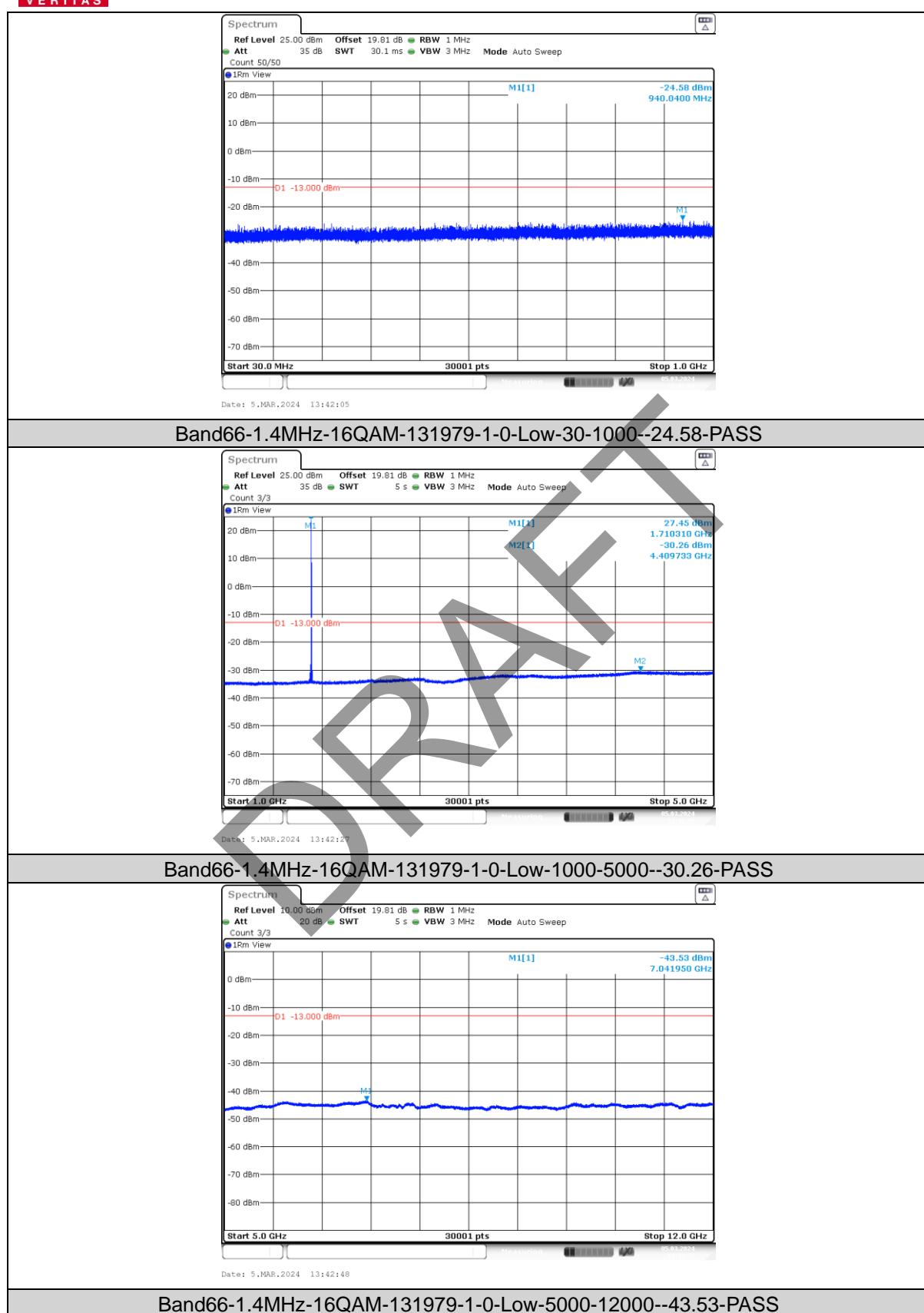


## Test Report No.: W7L-P23120015RI04



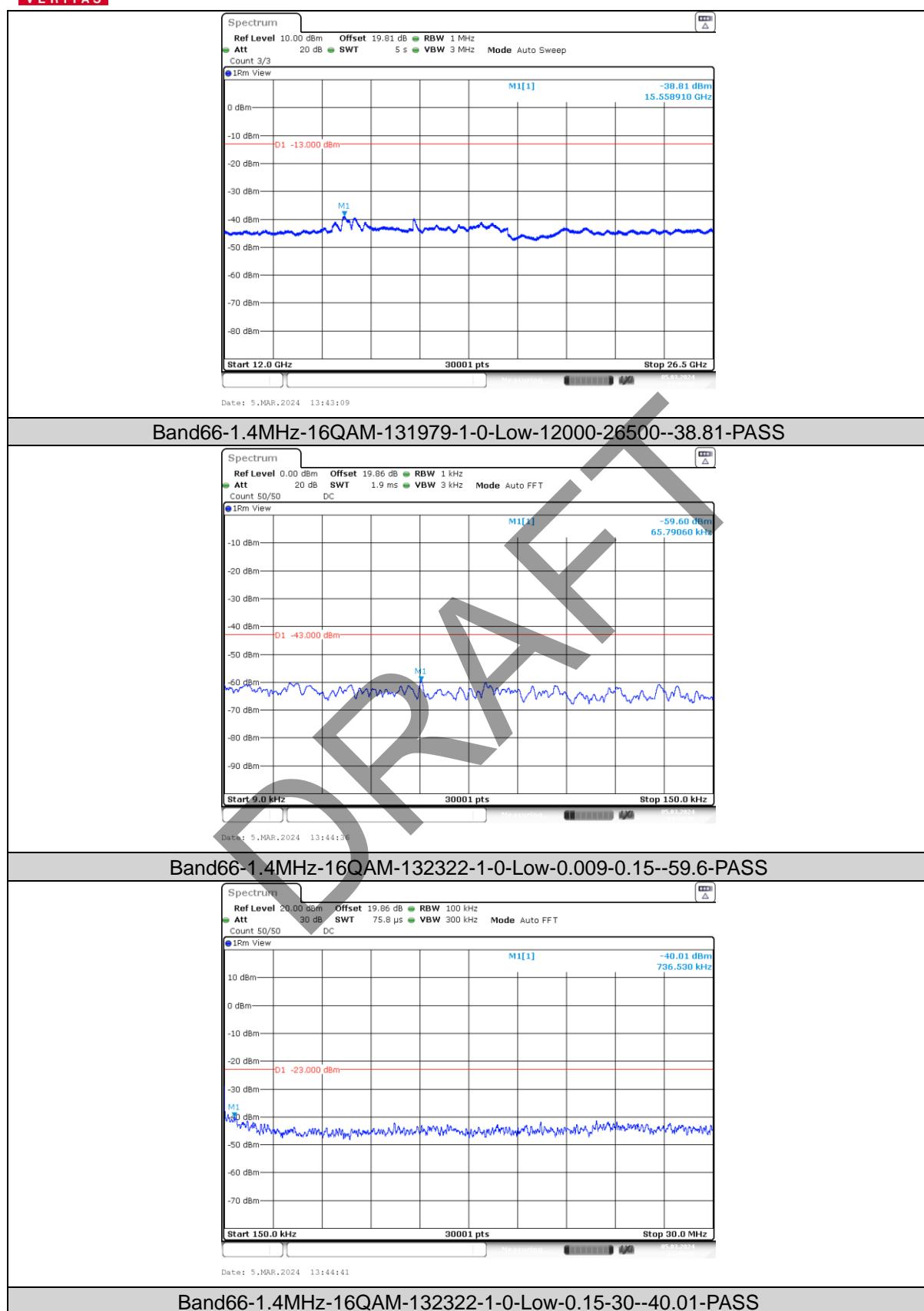


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



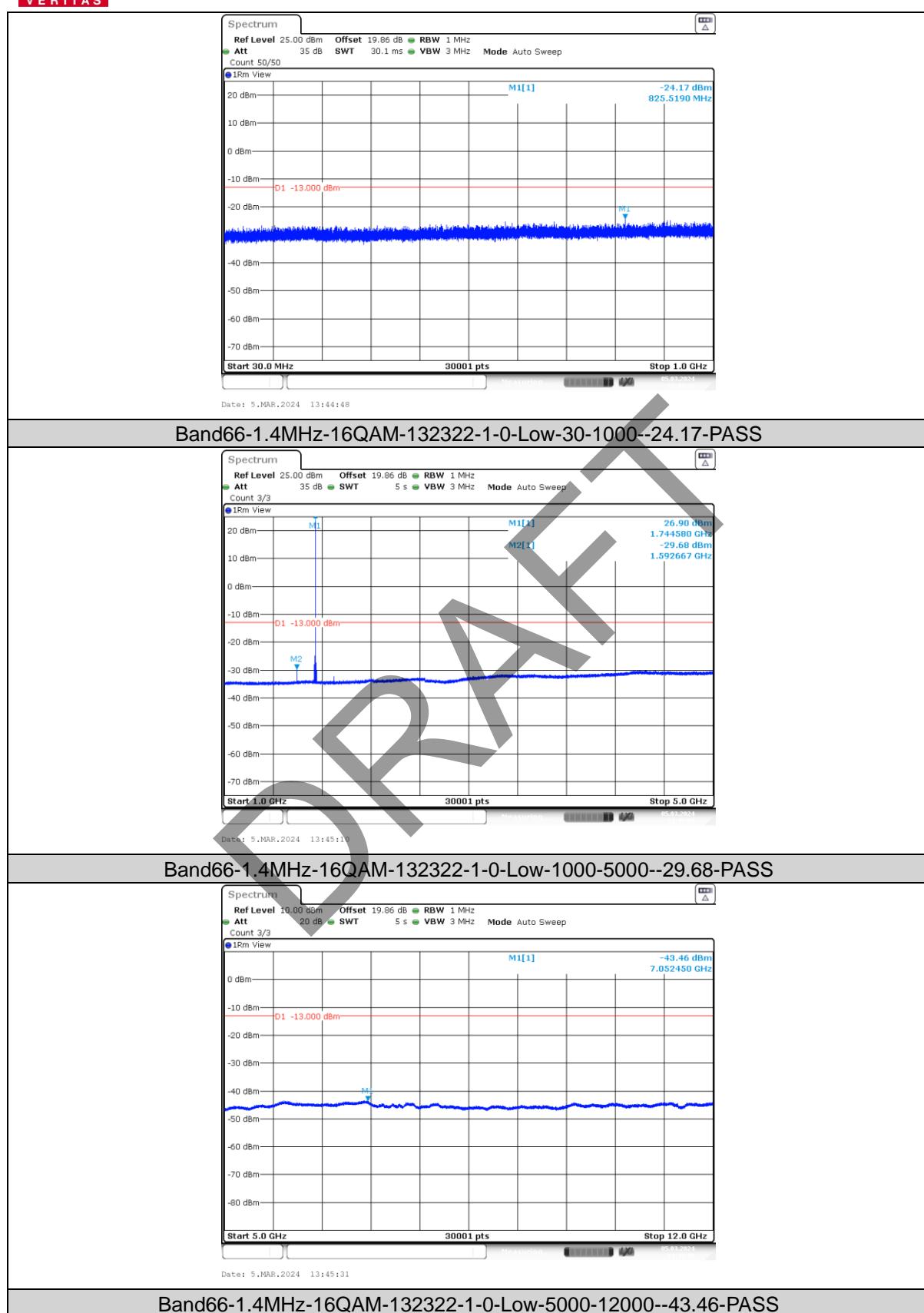
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



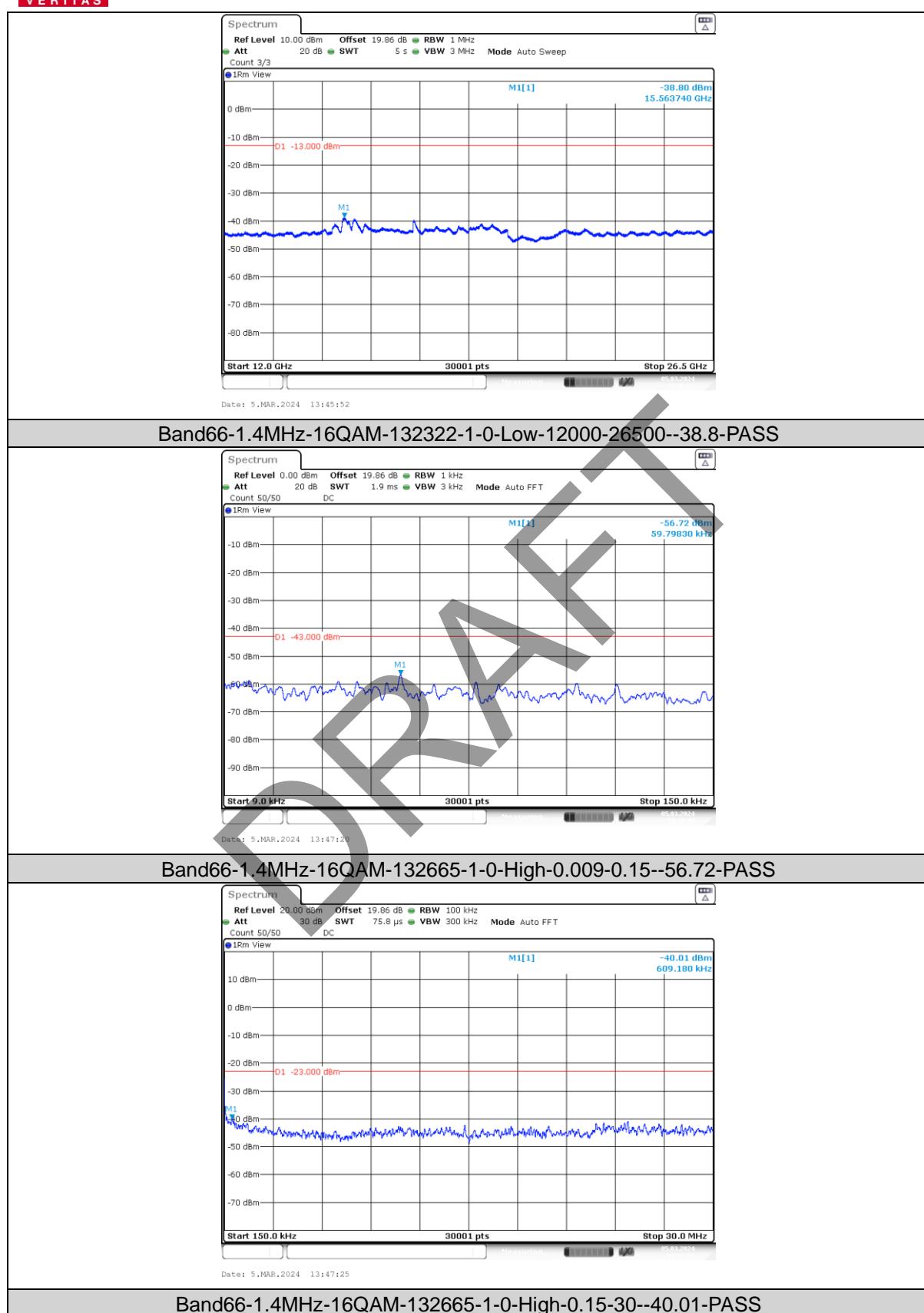
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



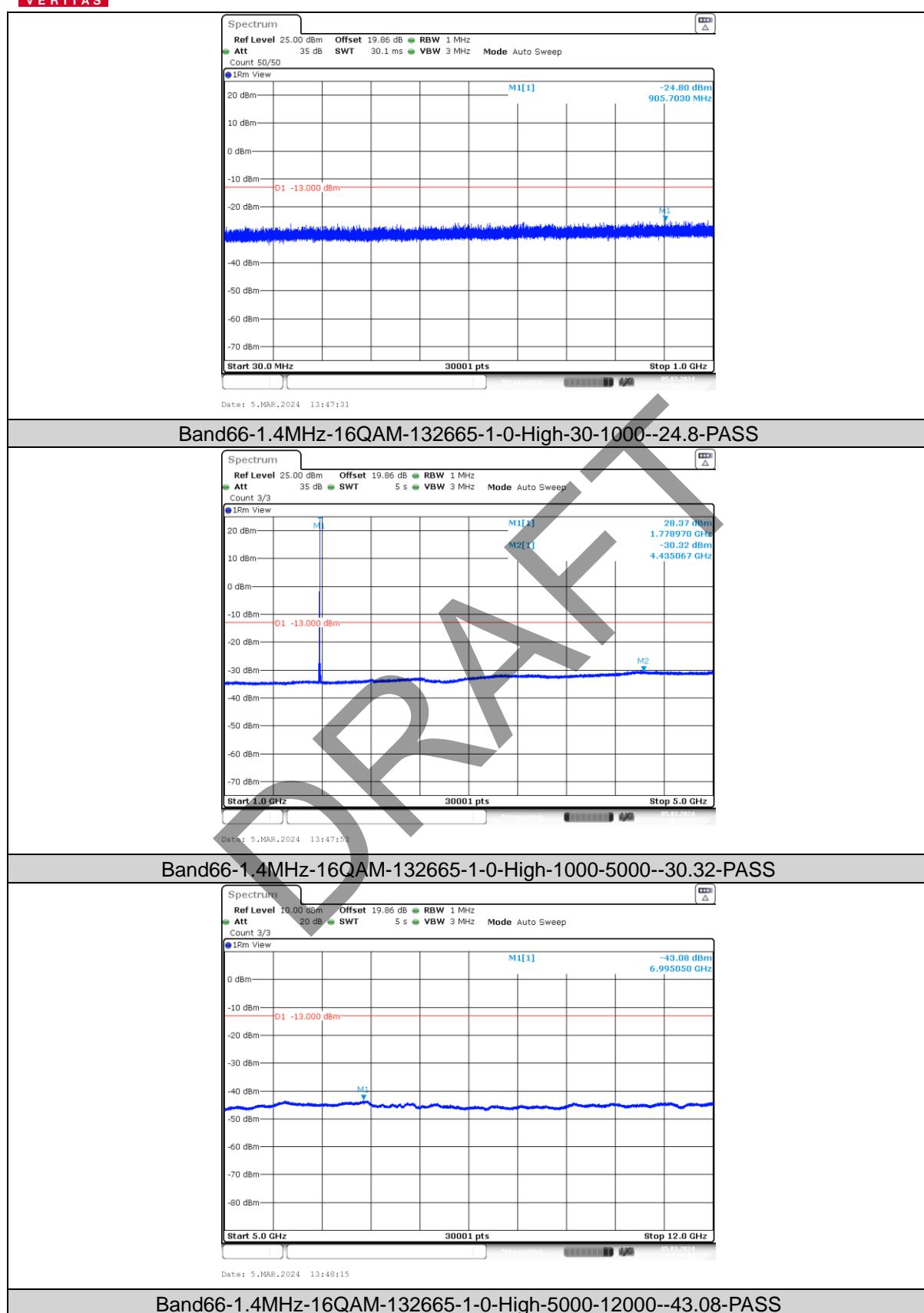
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



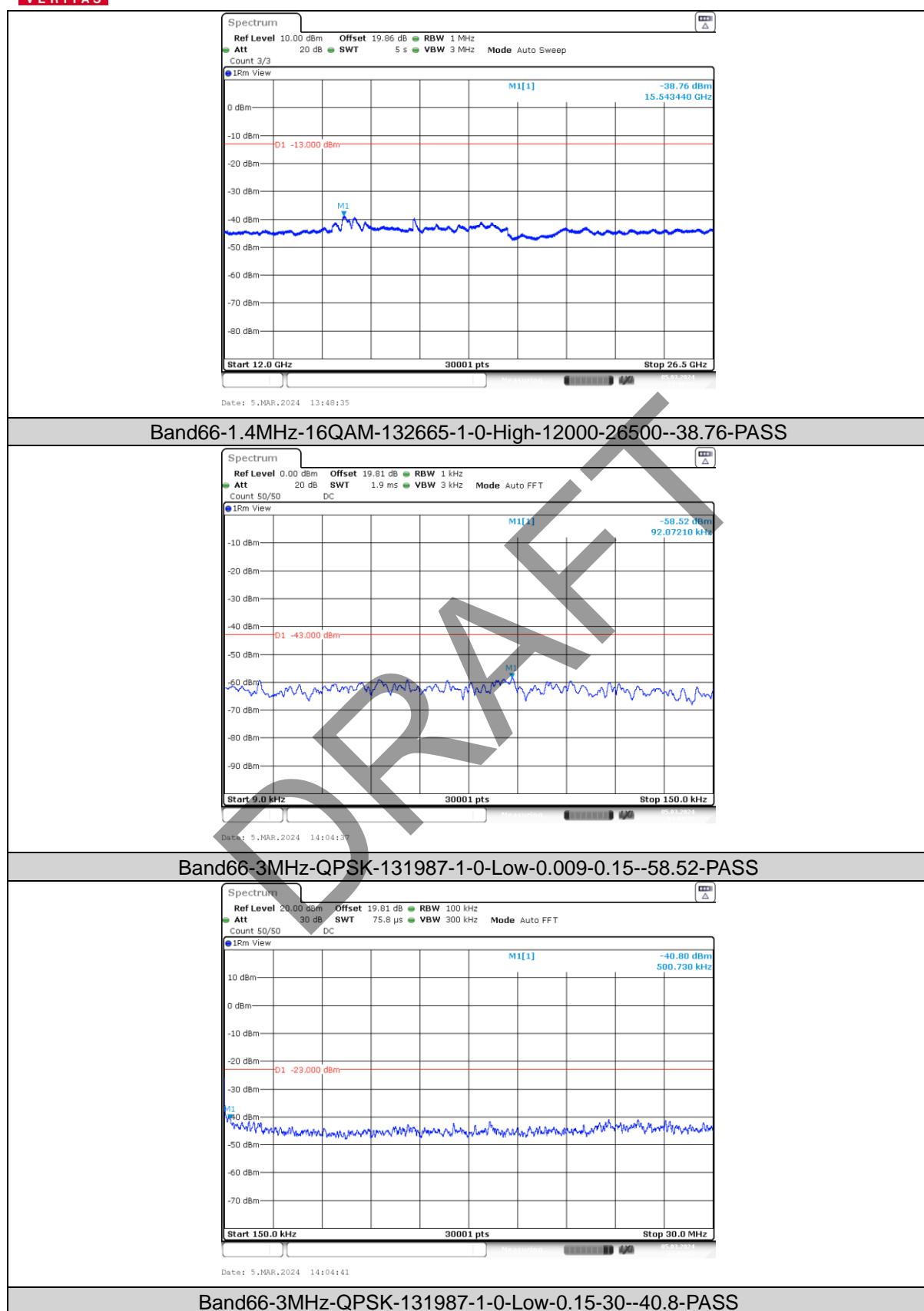
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

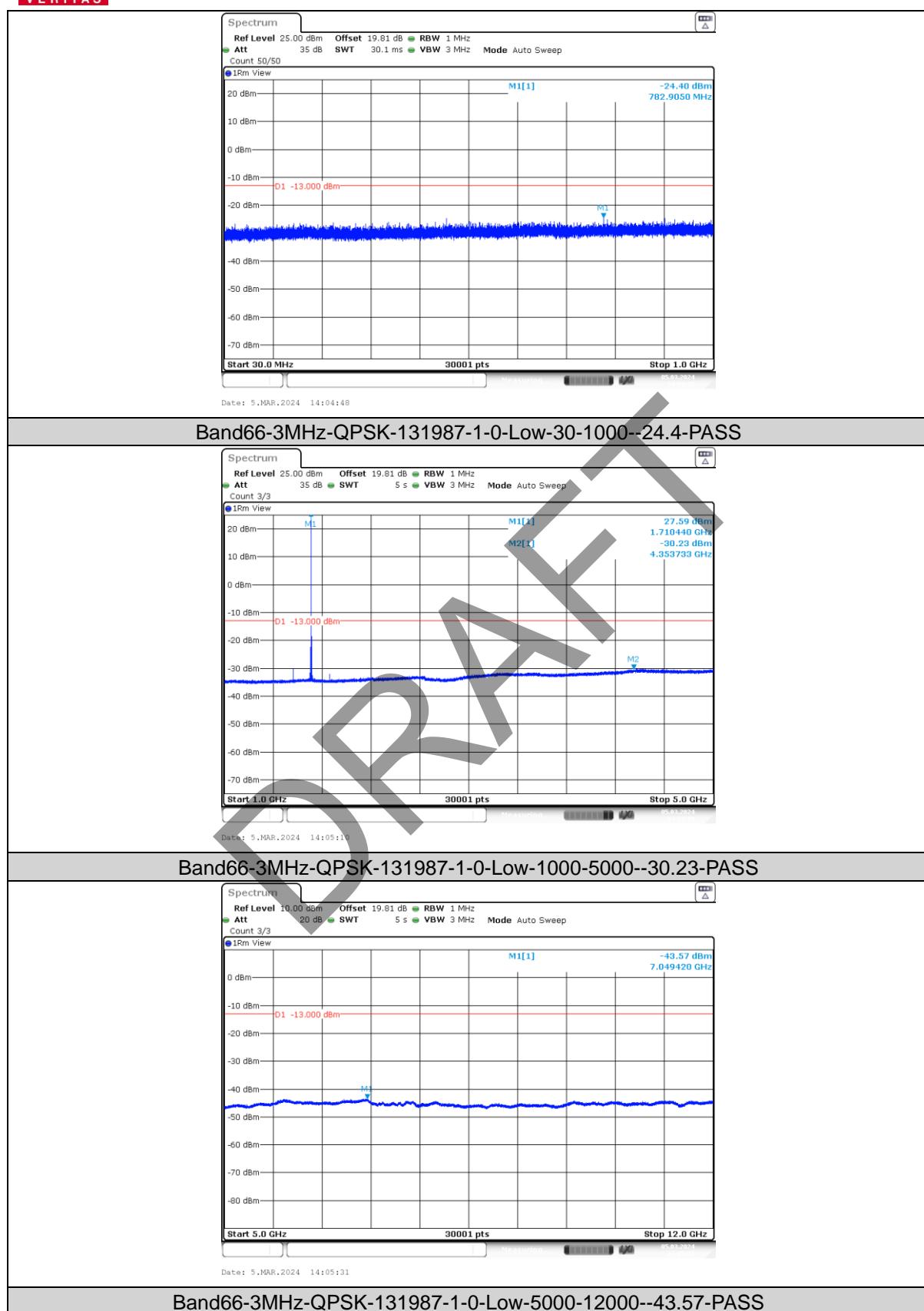


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



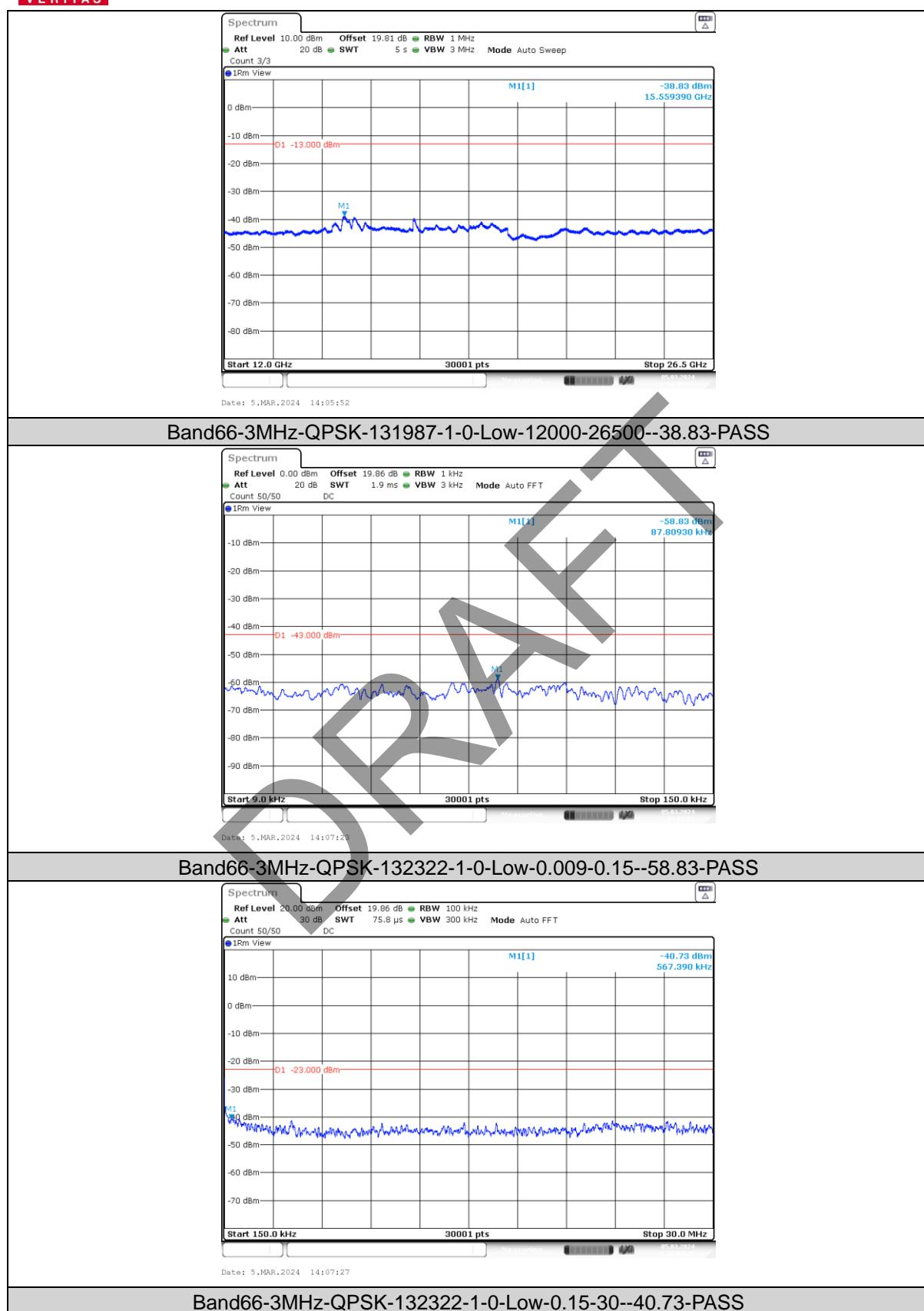
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

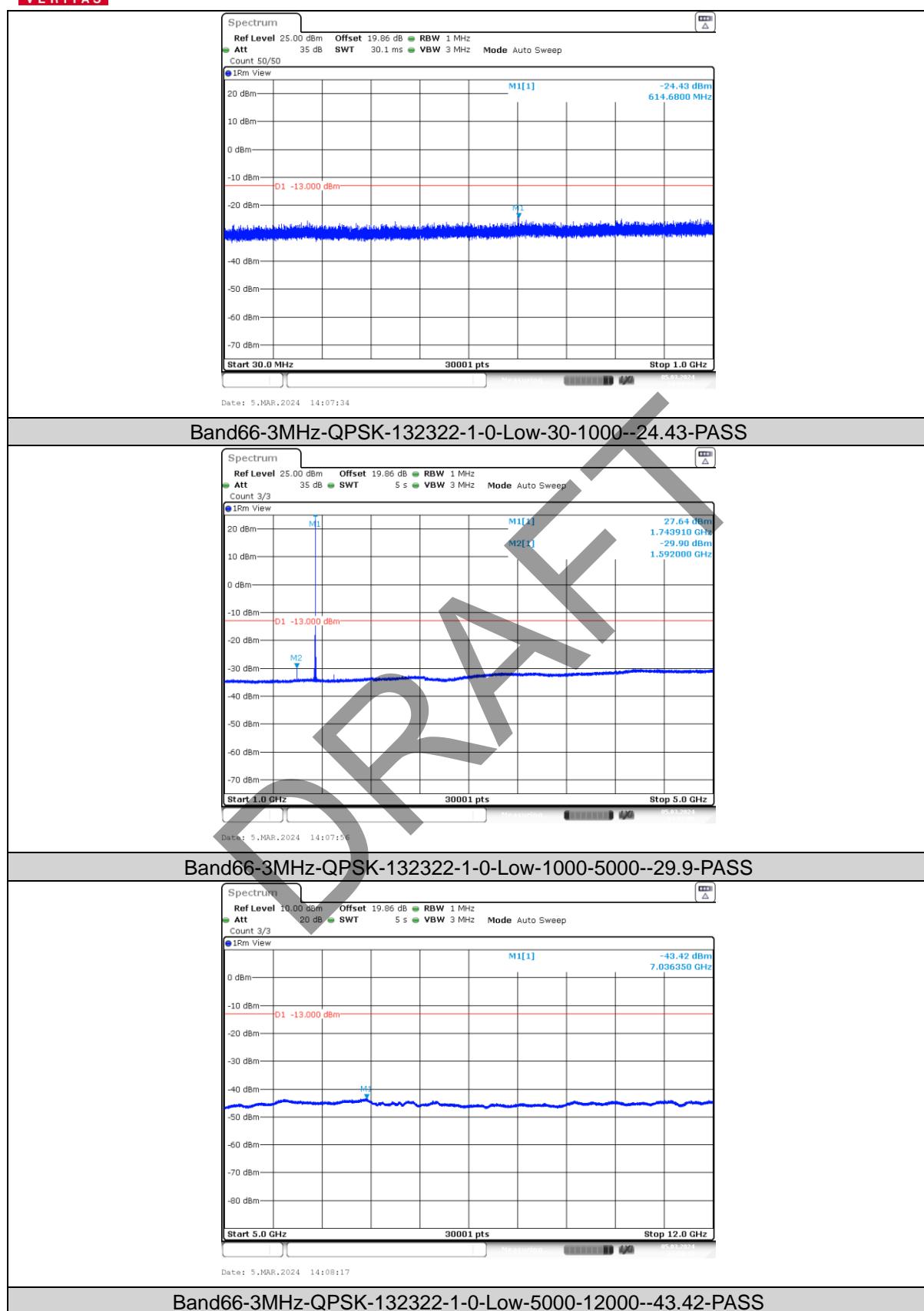


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



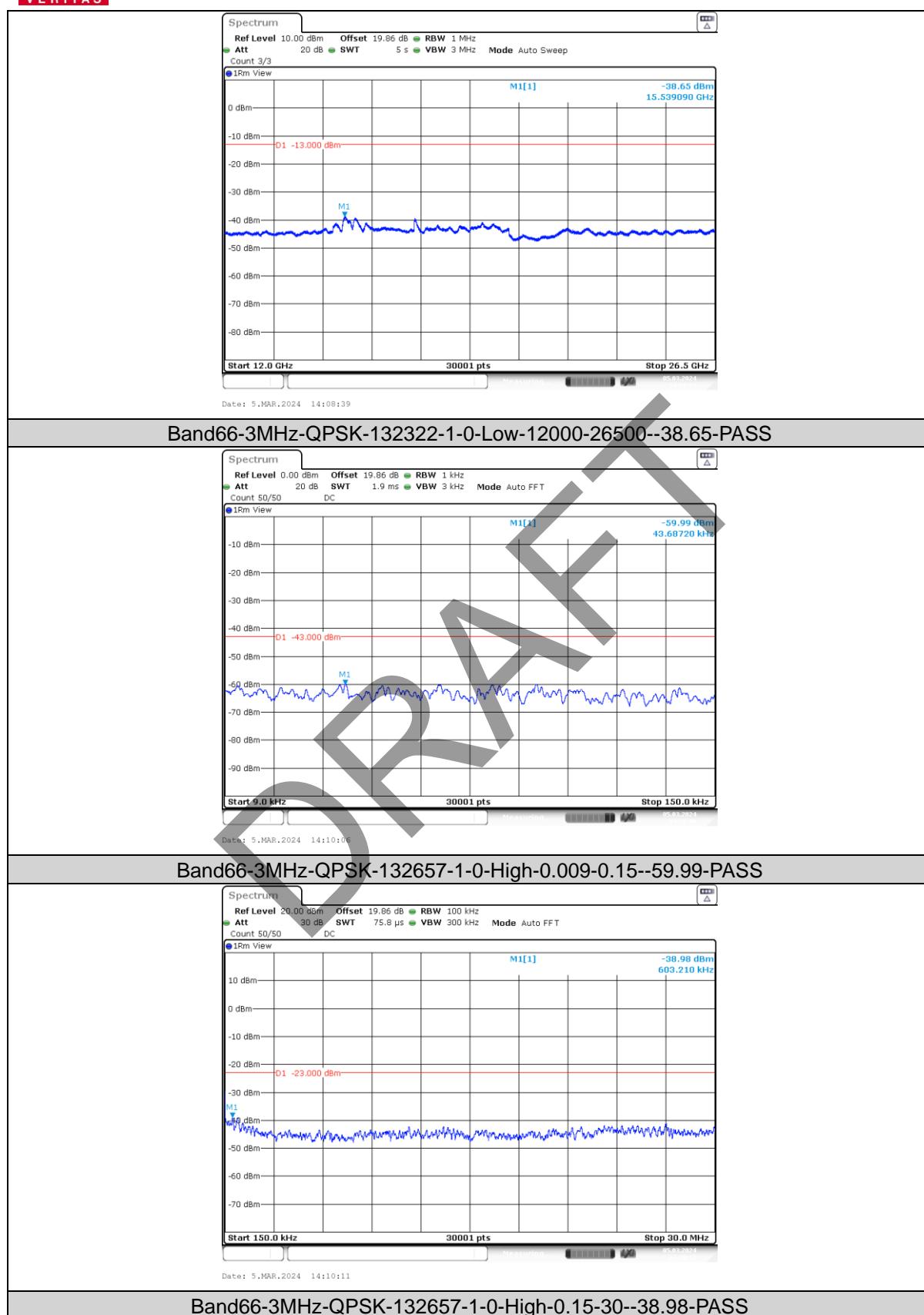
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

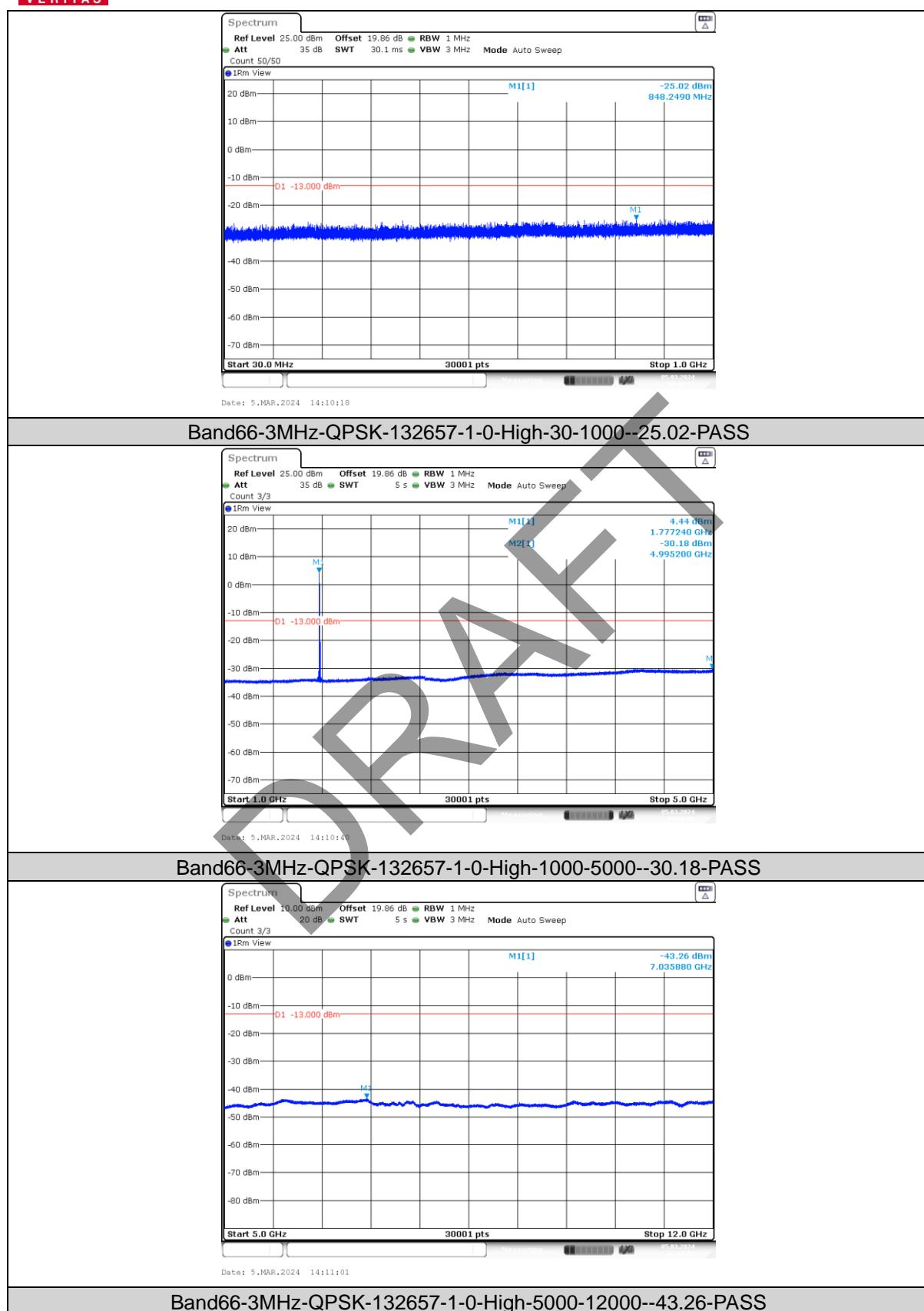


## Test Report No.: W7L-P23120015RI04



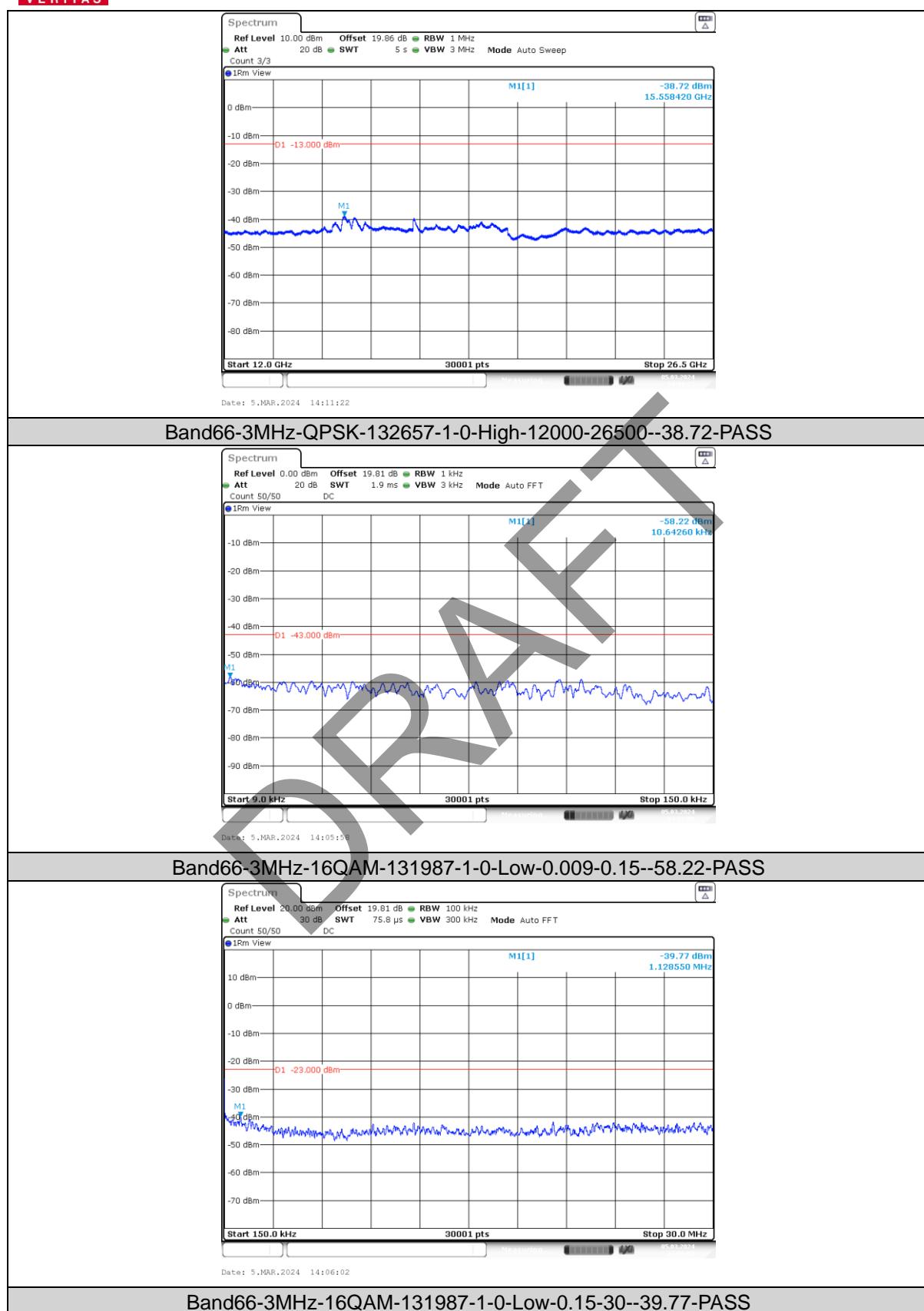


## Test Report No.: W7L-P23120015RI04



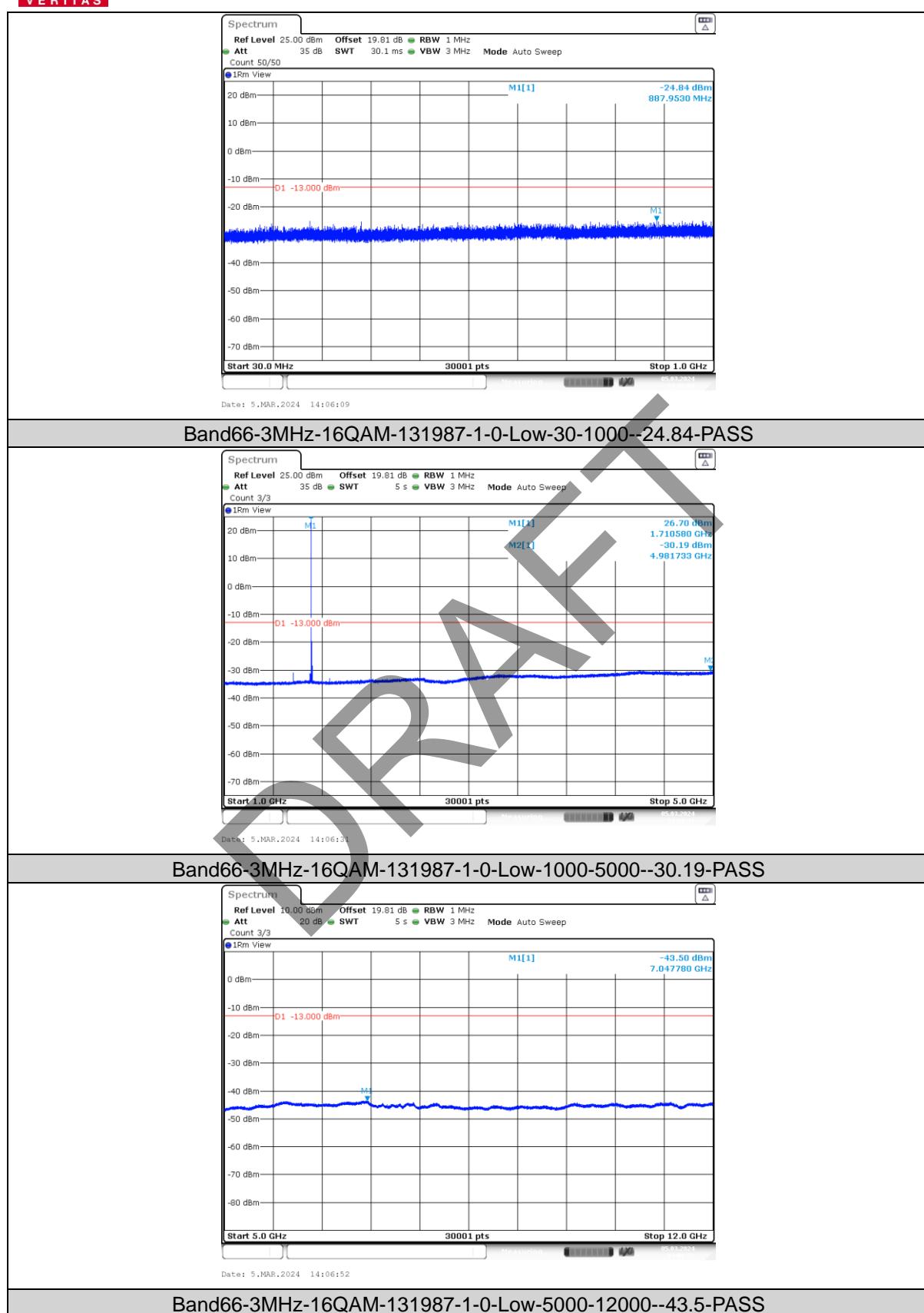


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



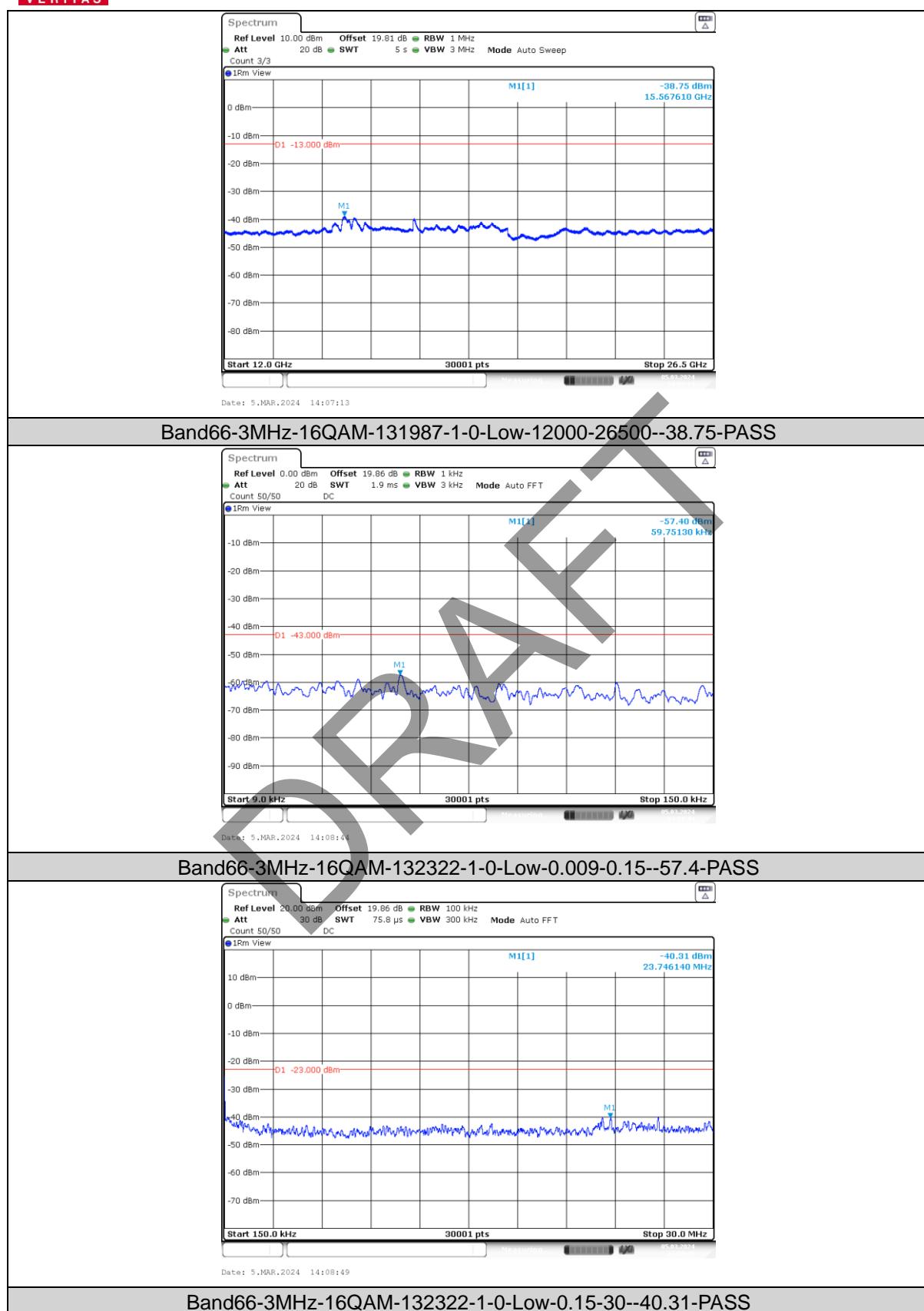
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

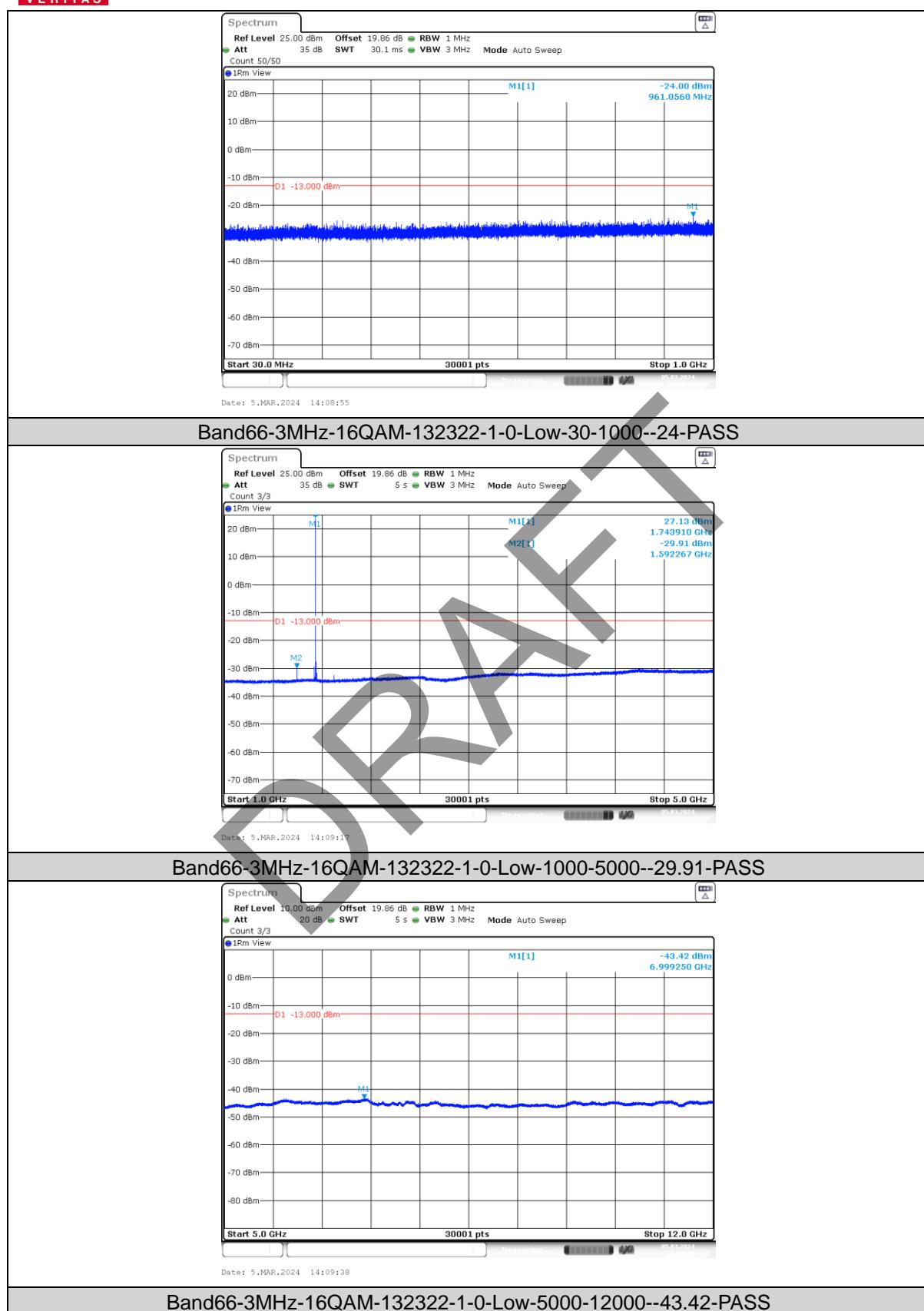


## Test Report No.: W7L-P23120015RI04



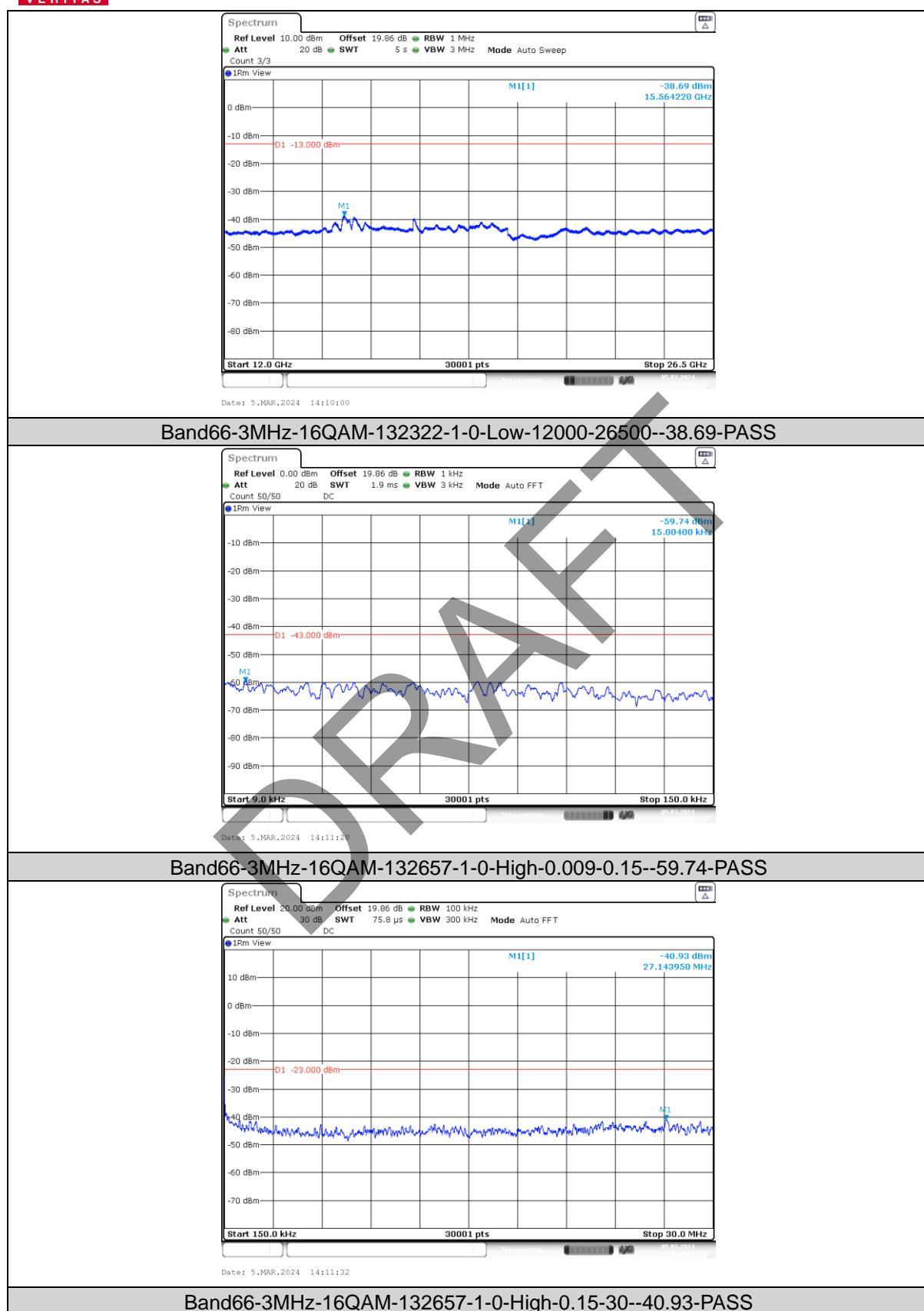


## Test Report No.: W7L-P23120015RI04



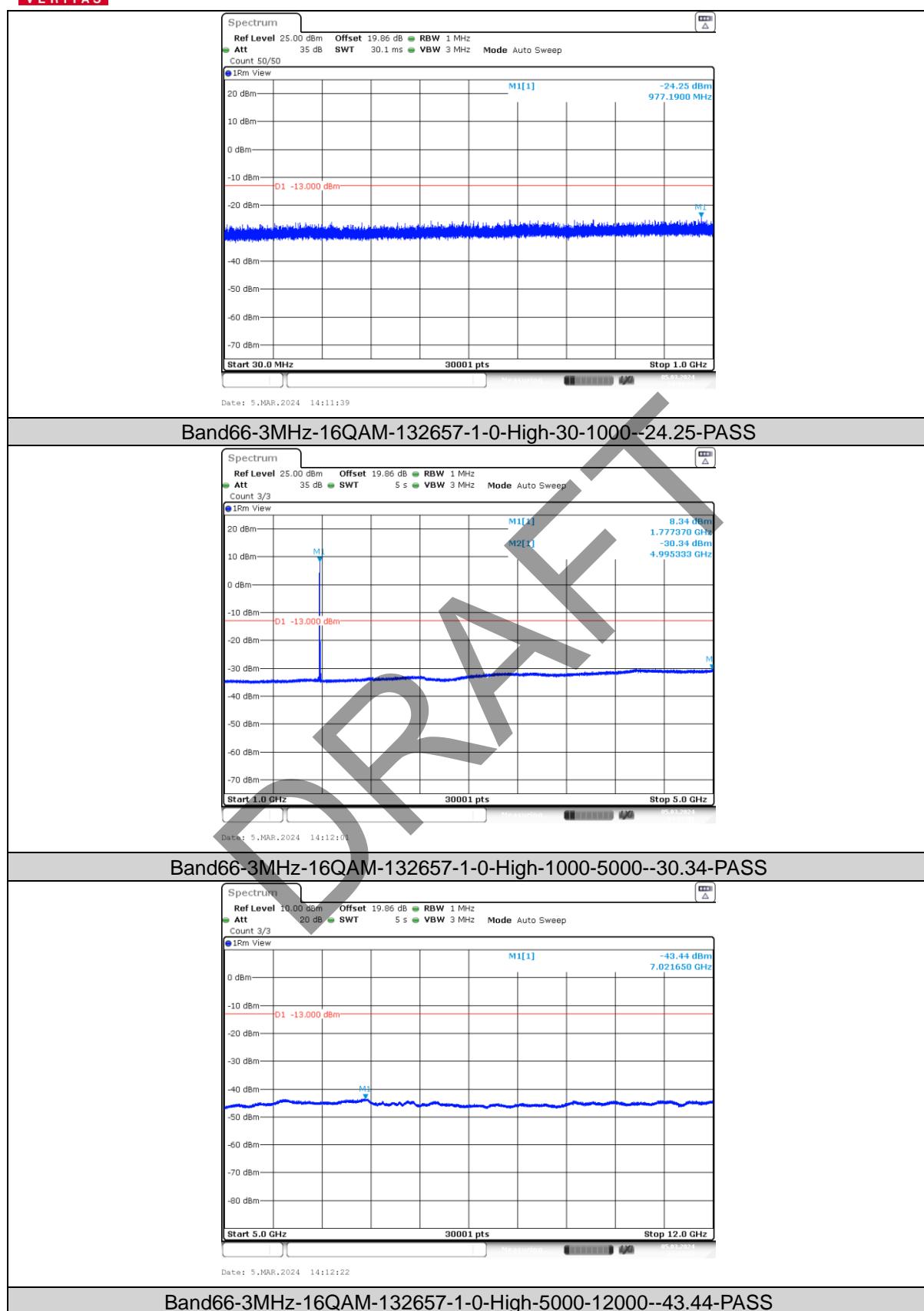


## Test Report No.: W7L-P23120015RI04



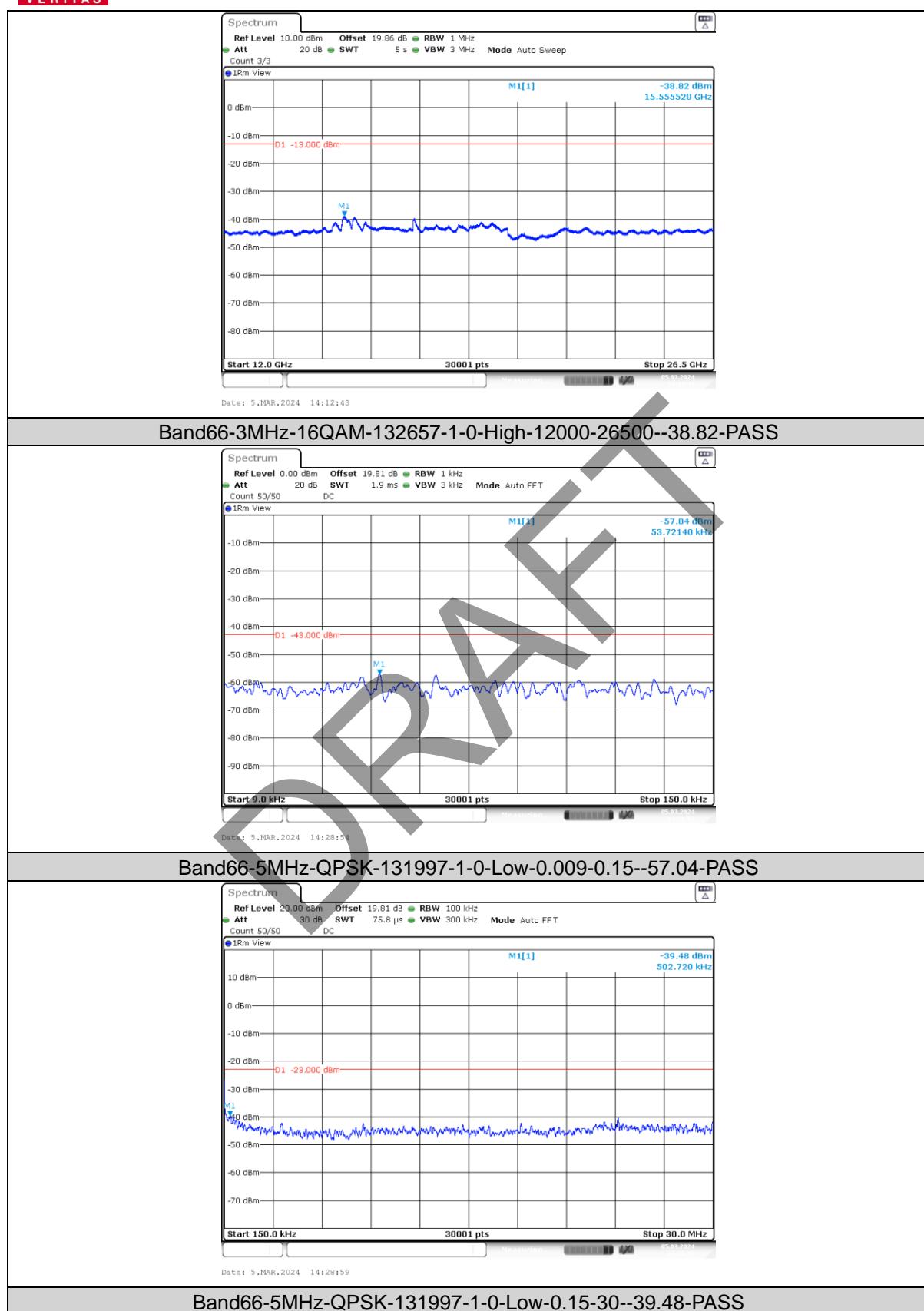


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



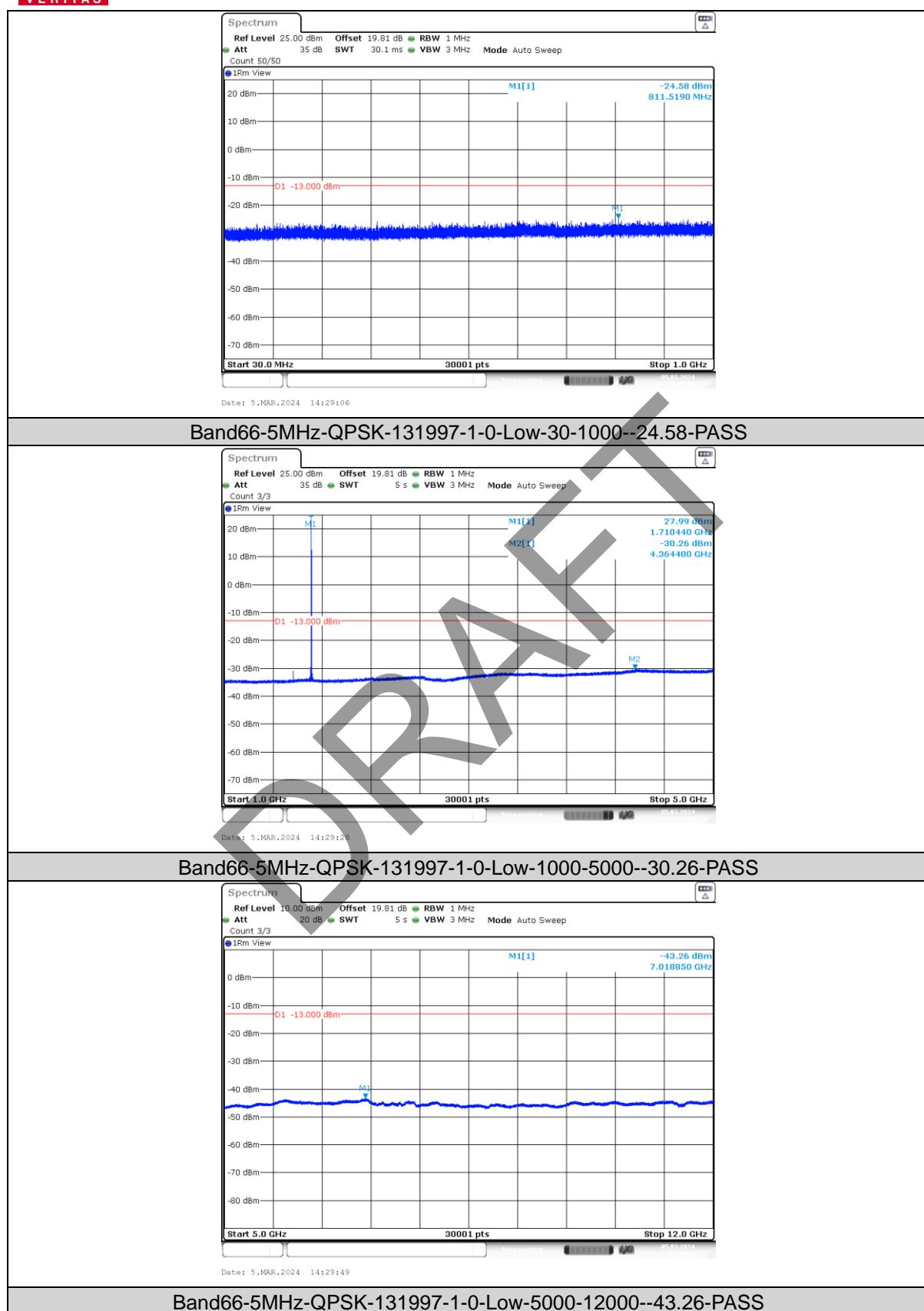
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



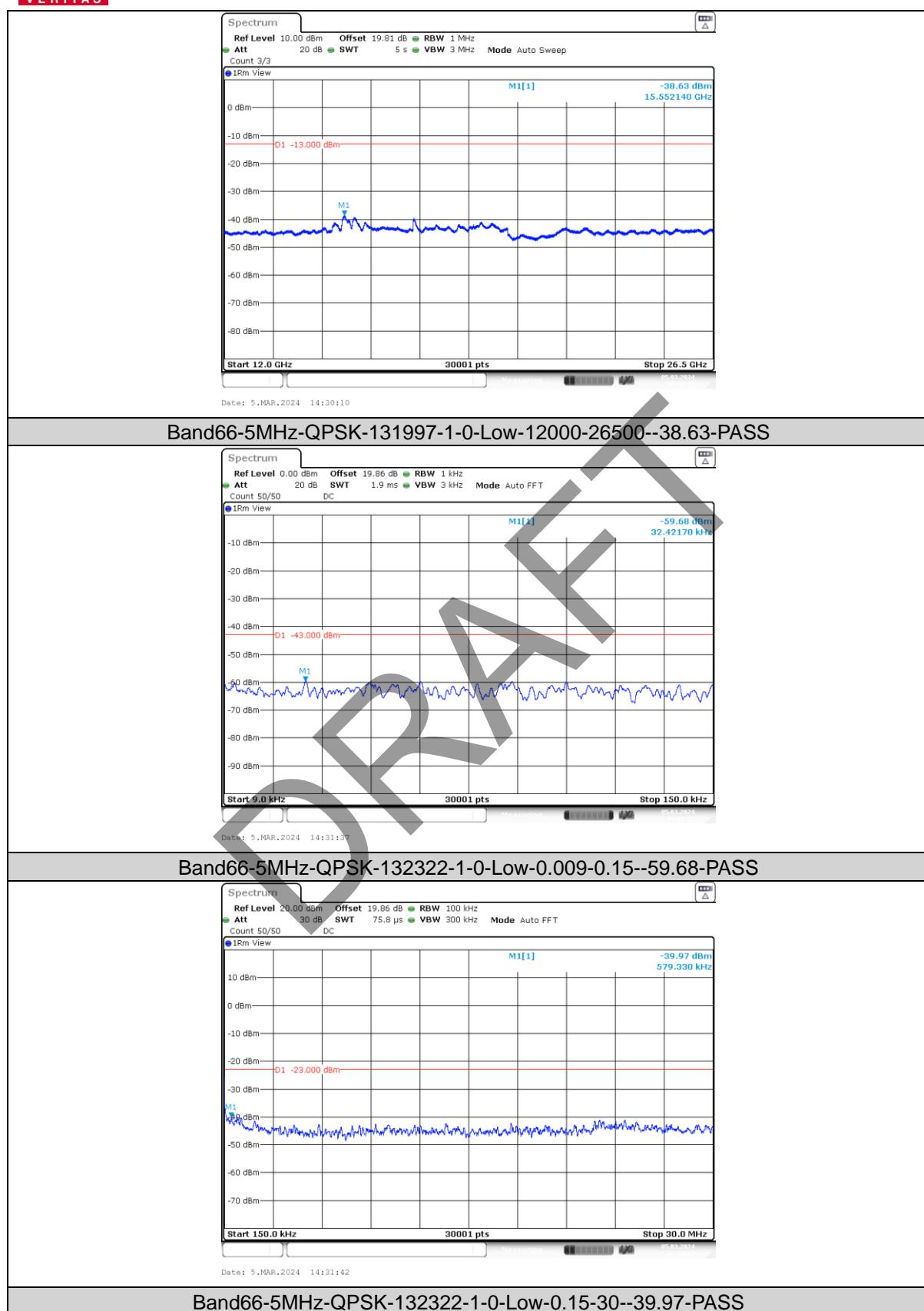
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

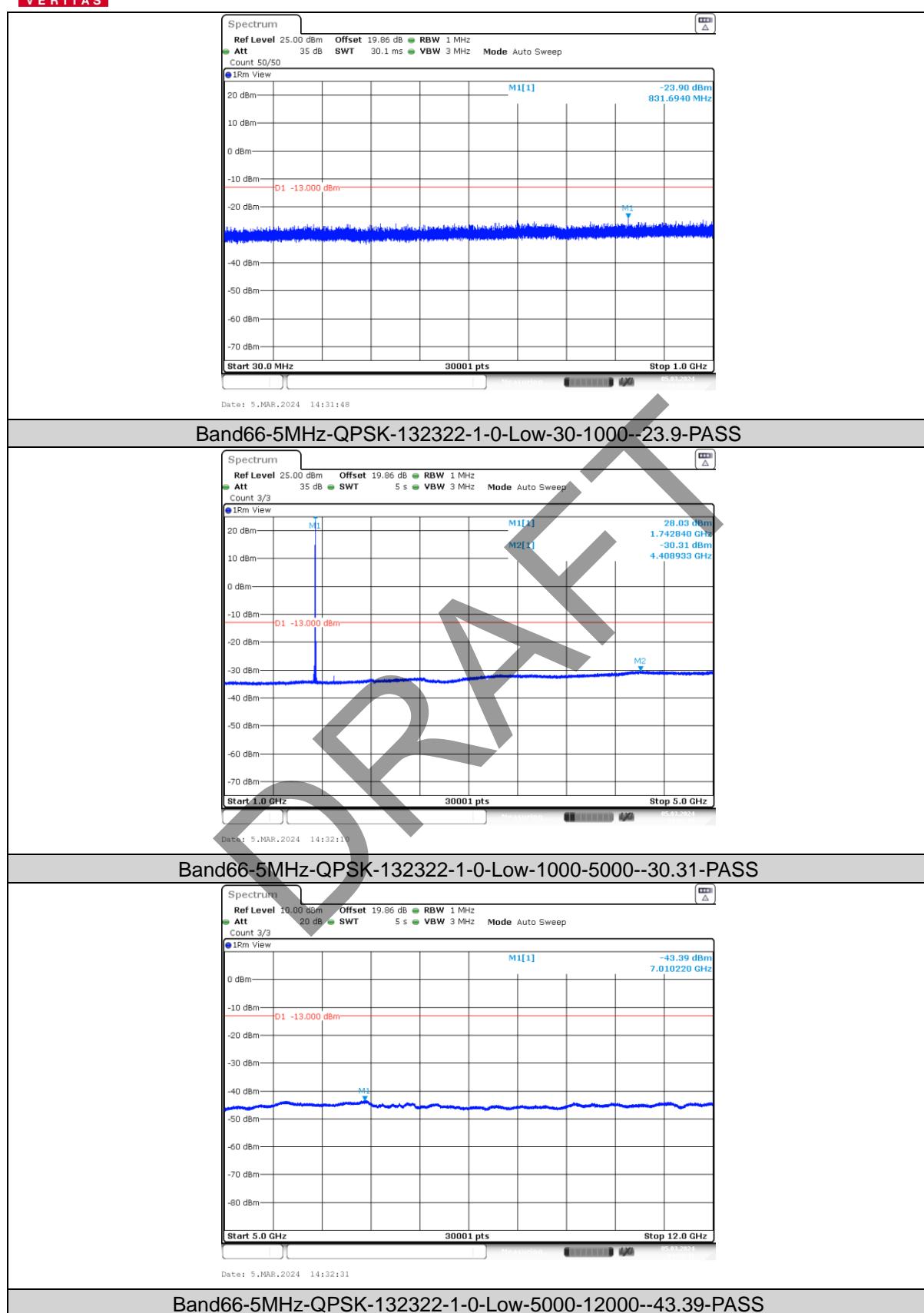


## Test Report No.: W7L-P23120015RI04



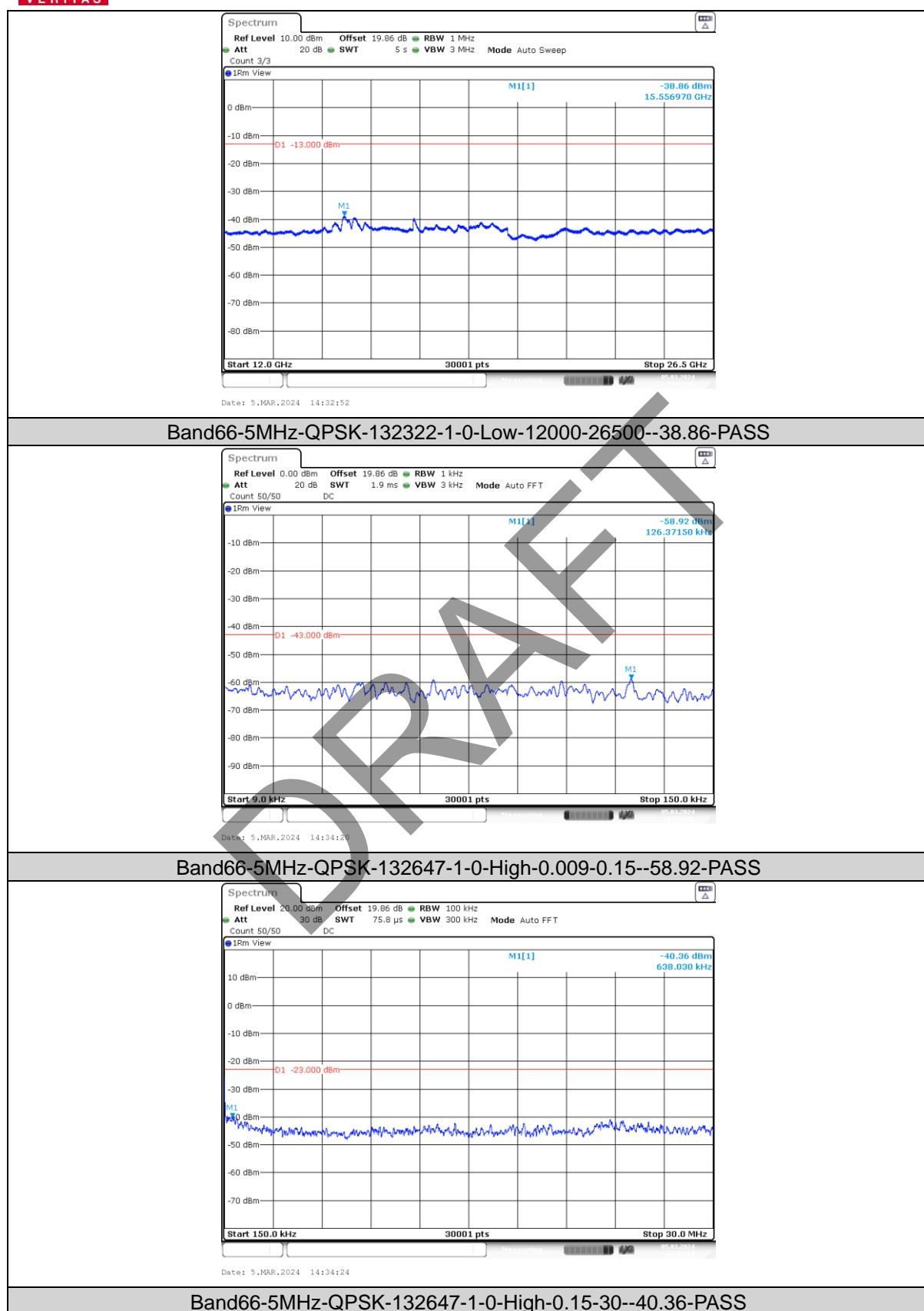


## Test Report No.: W7L-P23120015RI04



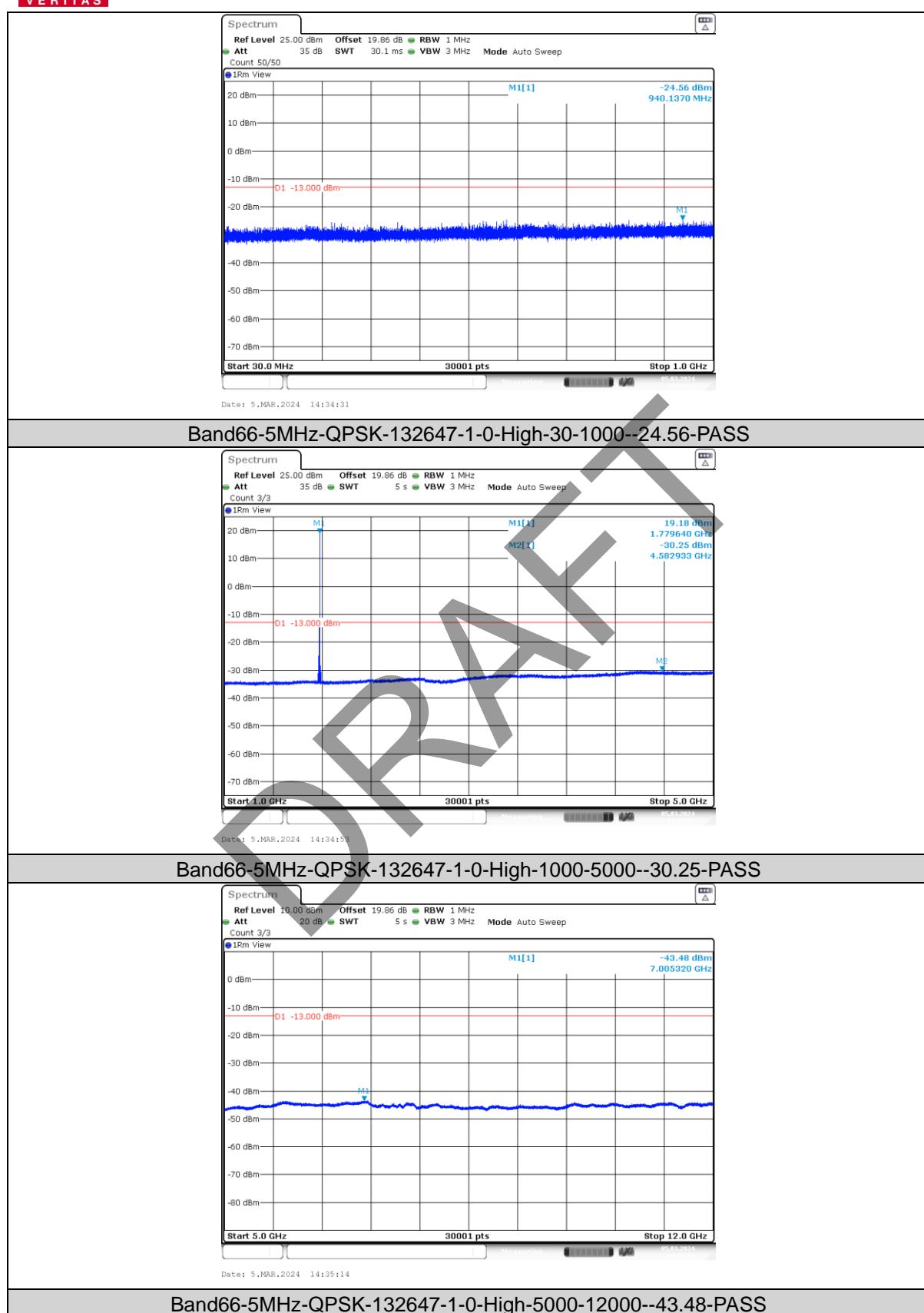


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



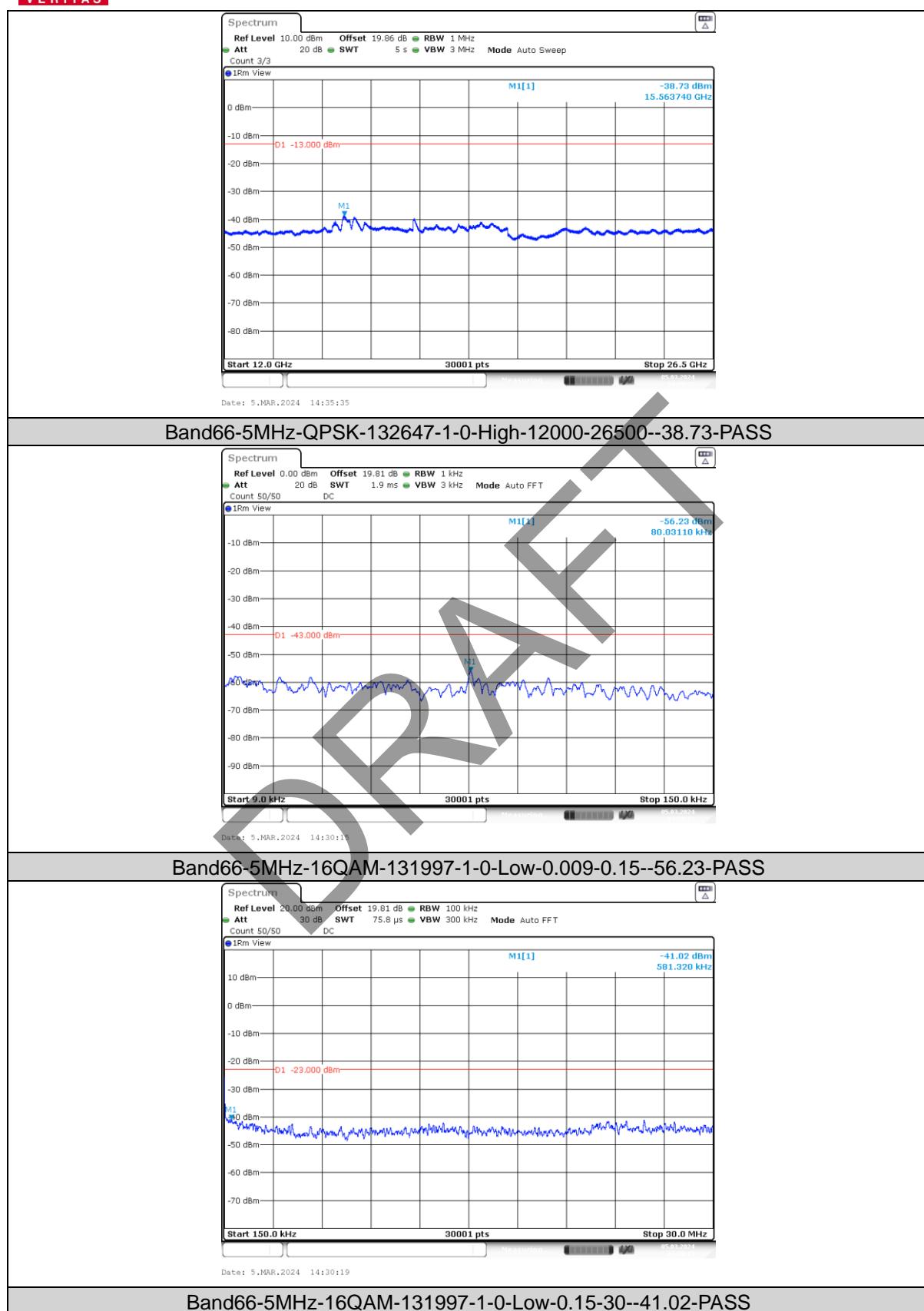
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

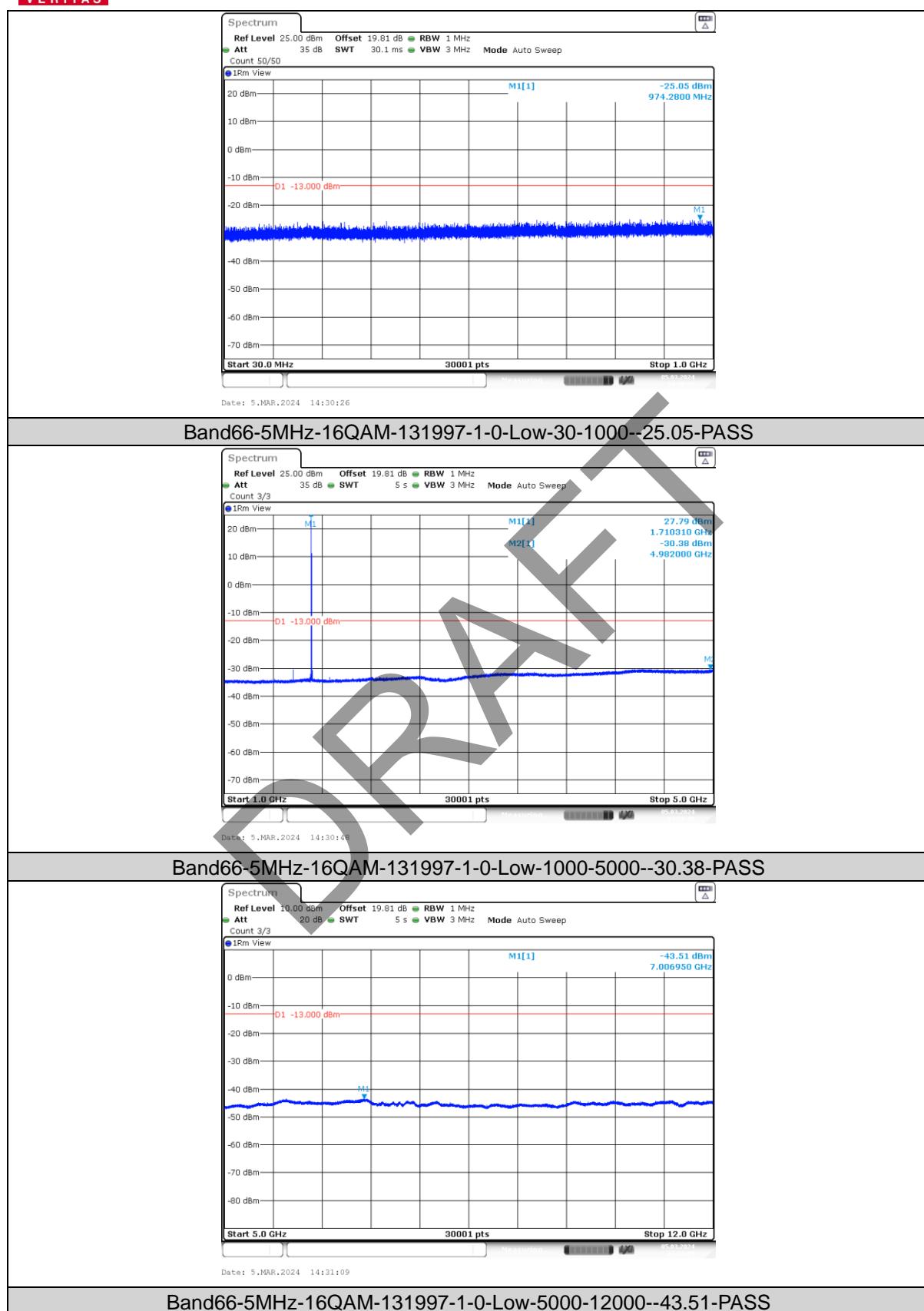


## Test Report No.: W7L-P23120015RI04



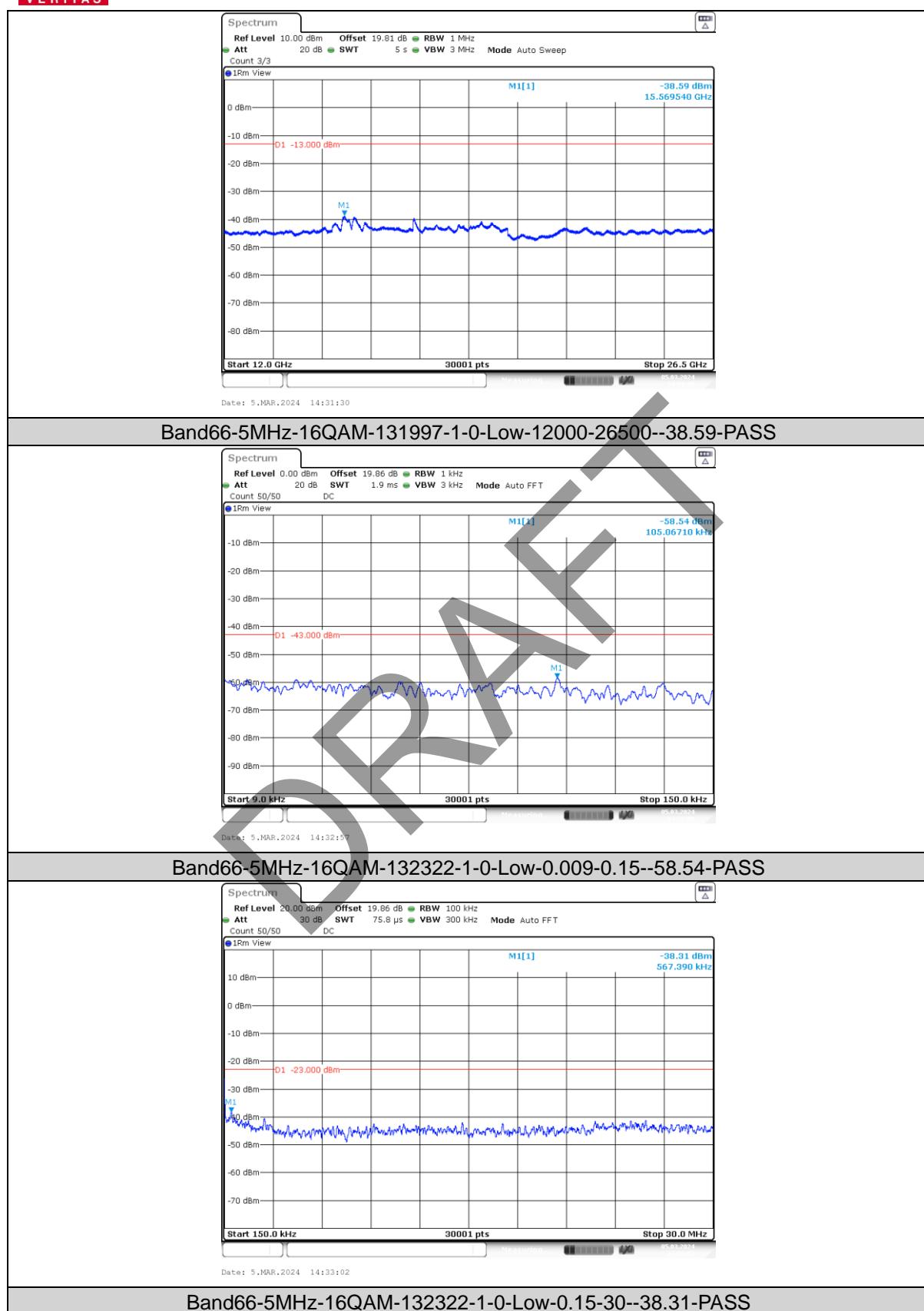


## Test Report No.: W7L-P23120015RI04



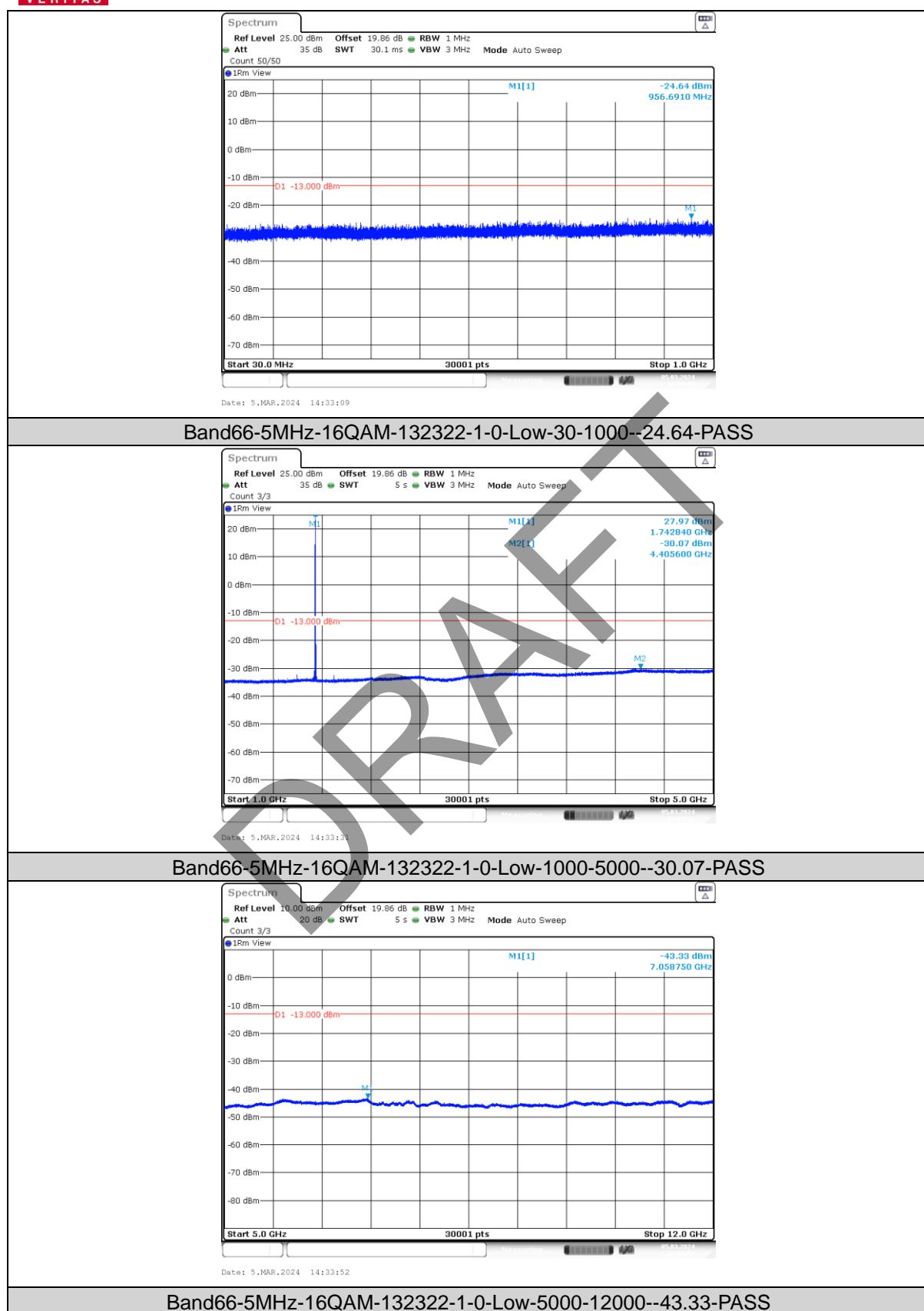


## Test Report No.: W7L-P23120015RI04



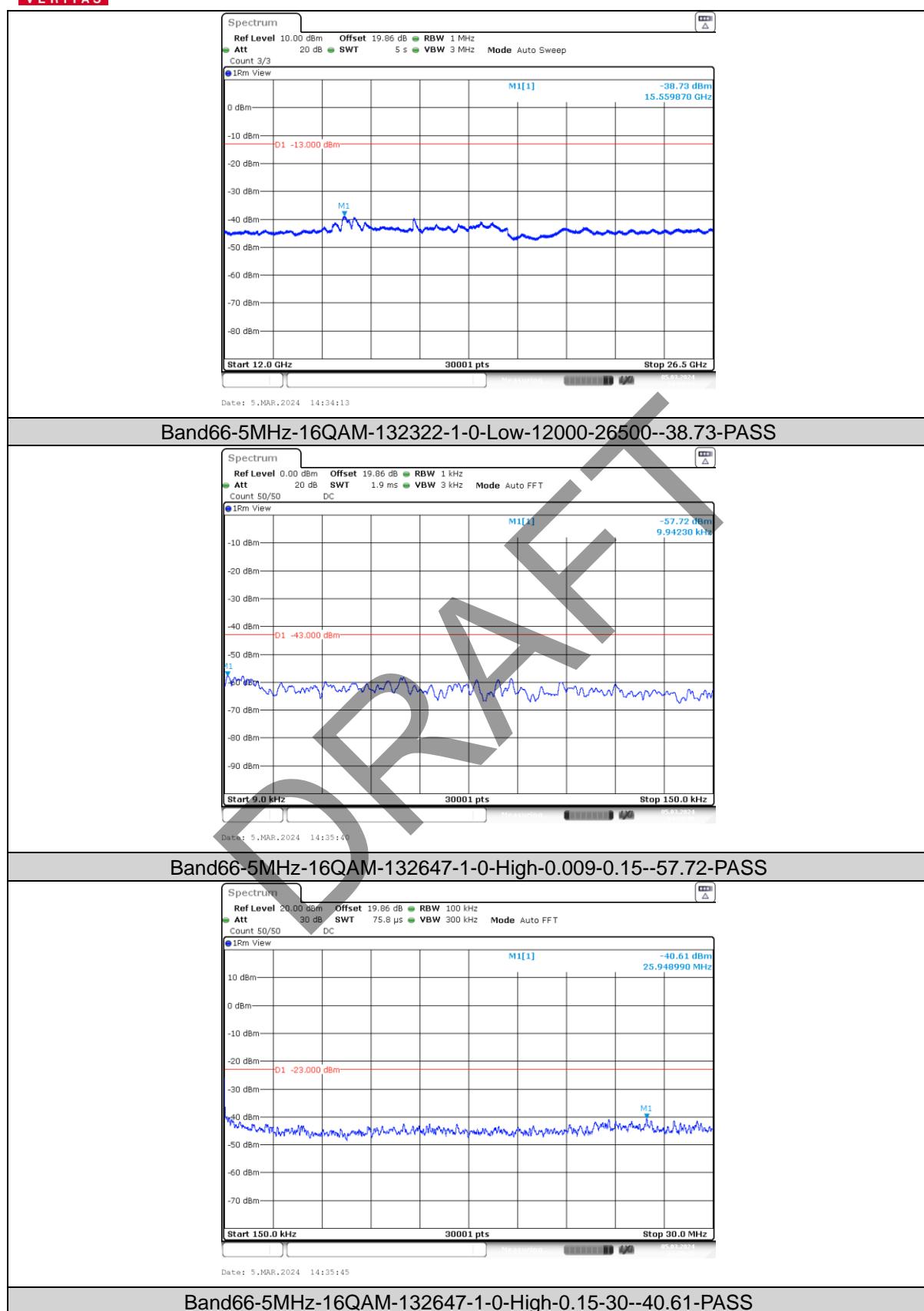


## Test Report No.: W7L-P23120015RI04



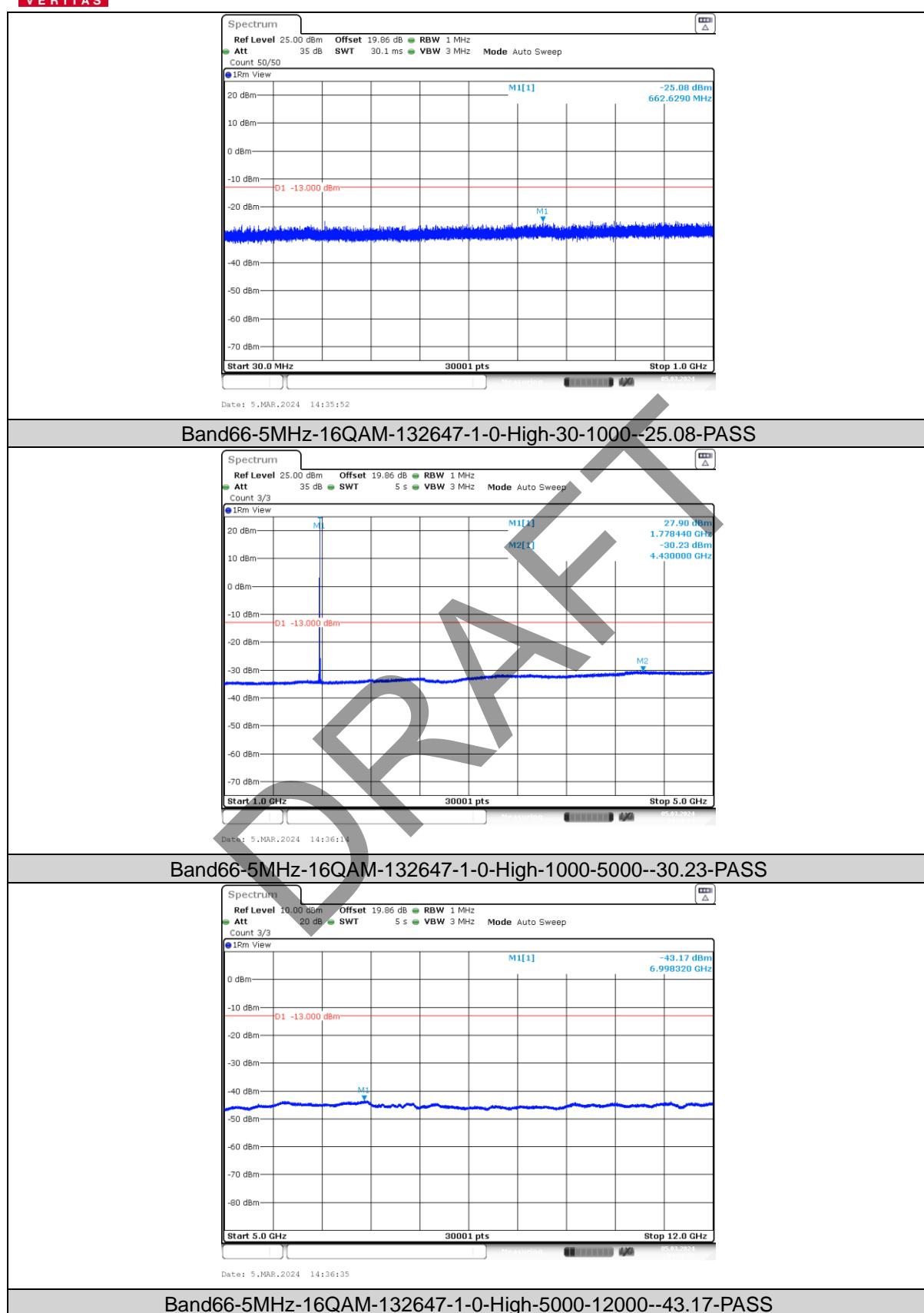


## Test Report No.: W7L-P23120015RI04



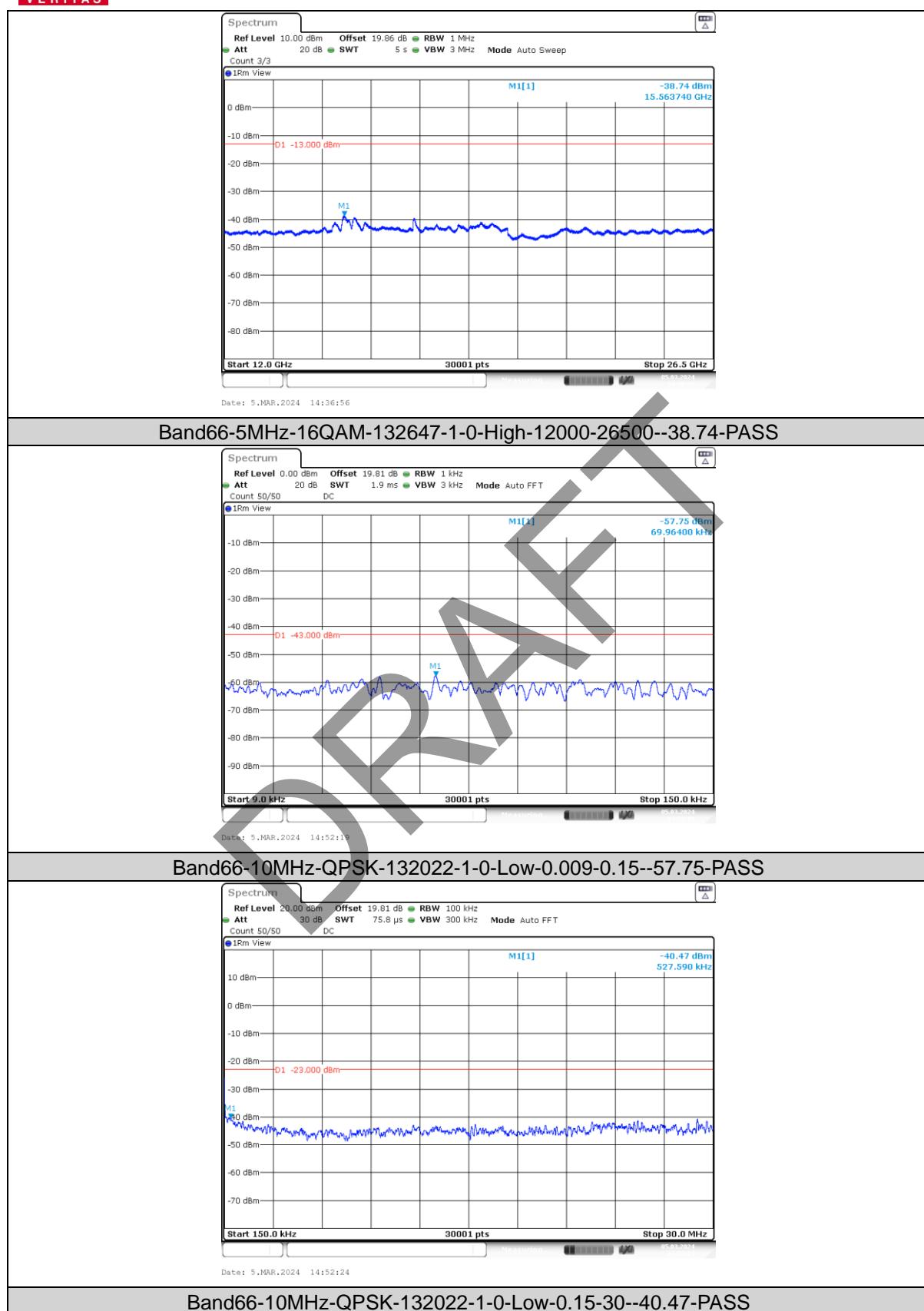


## Test Report No.: W7L-P23120015RI04



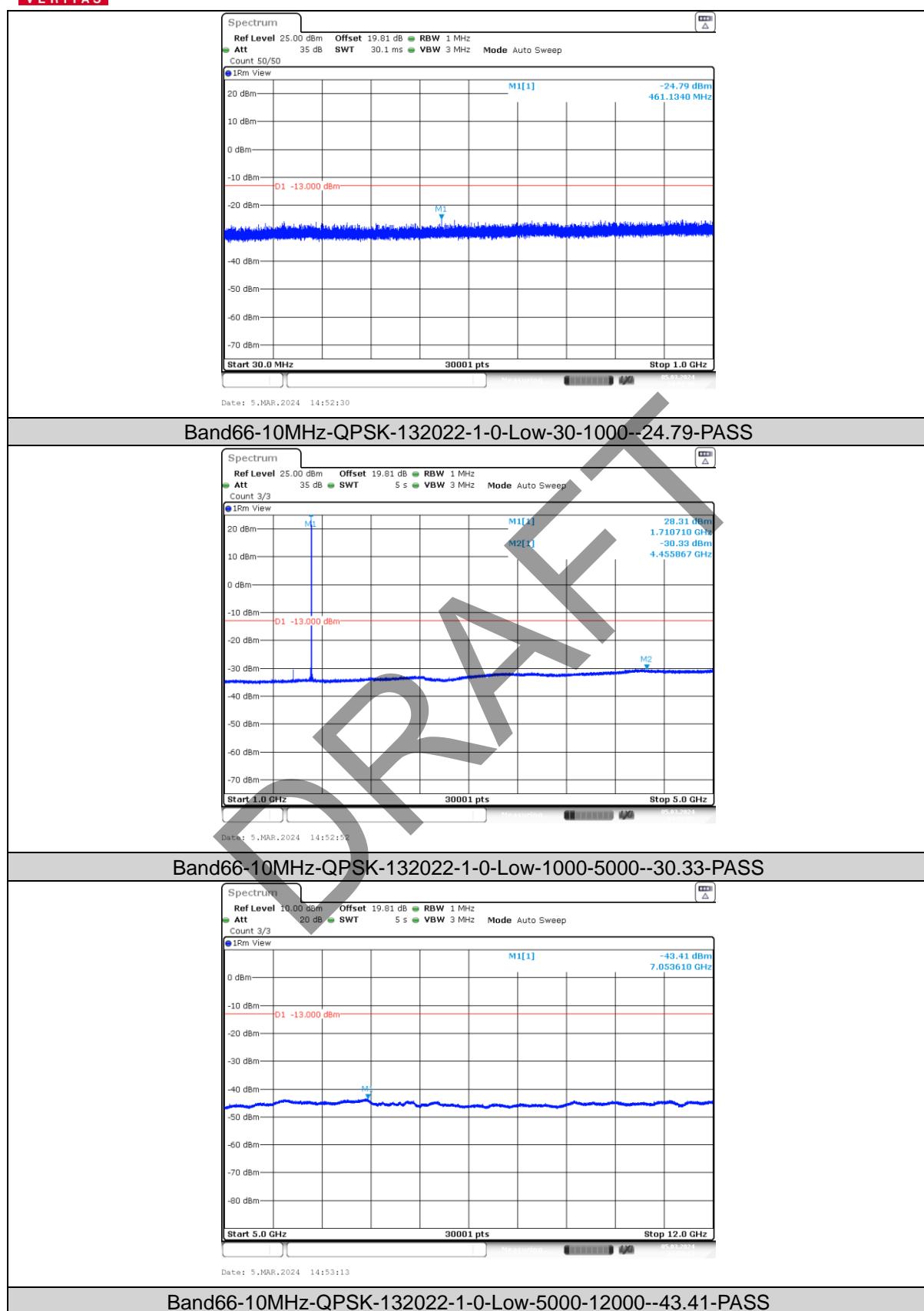


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



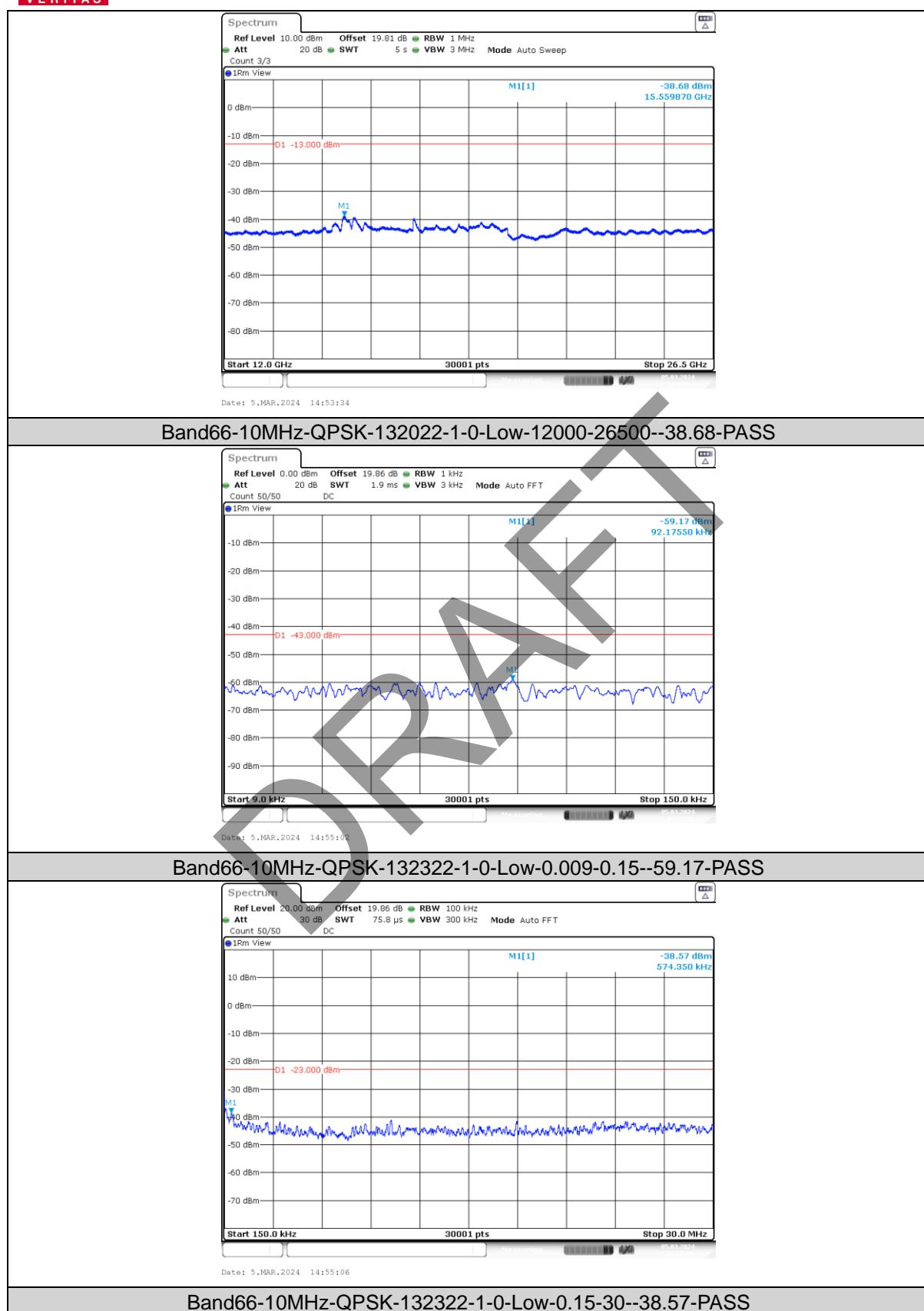
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



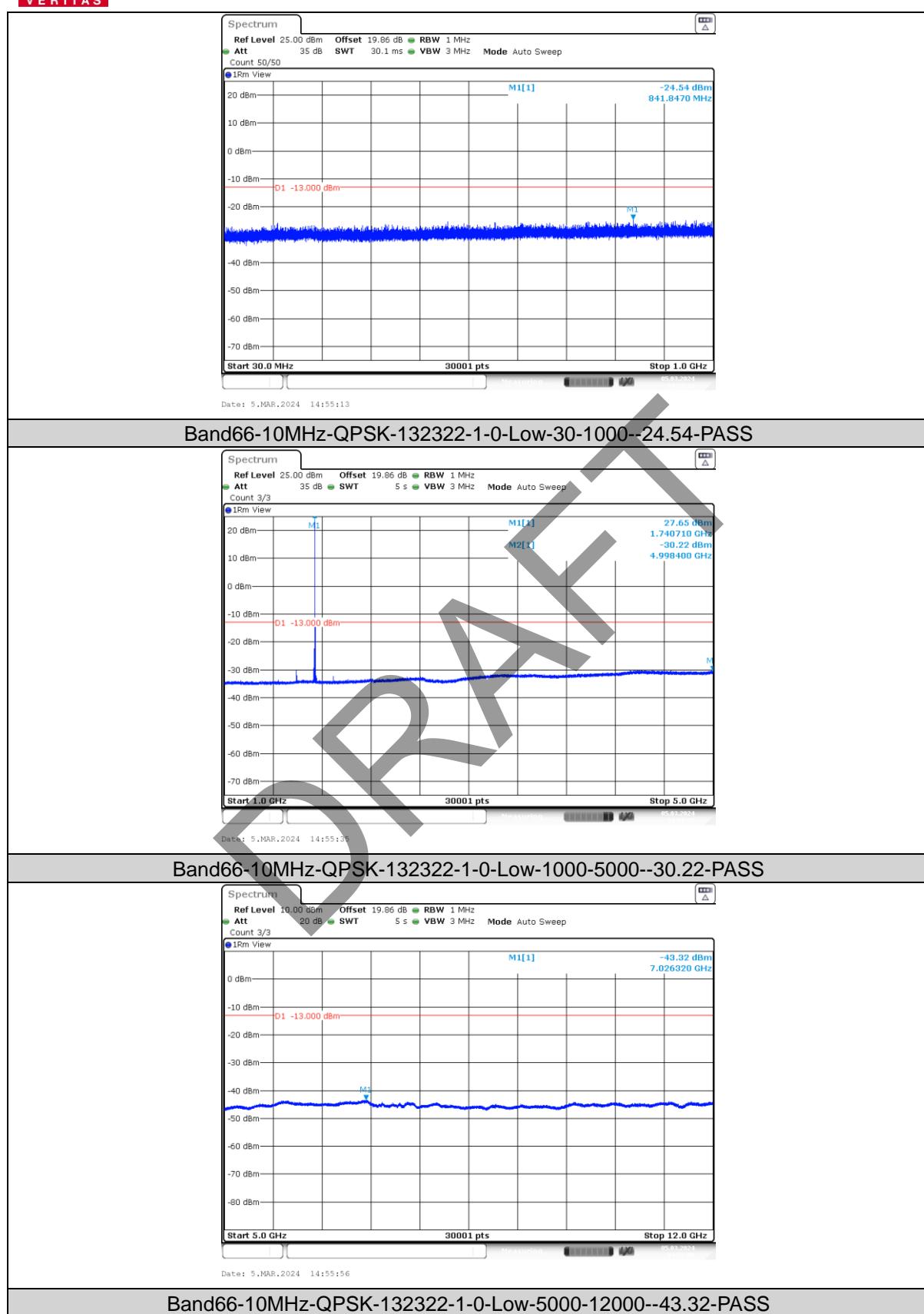
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



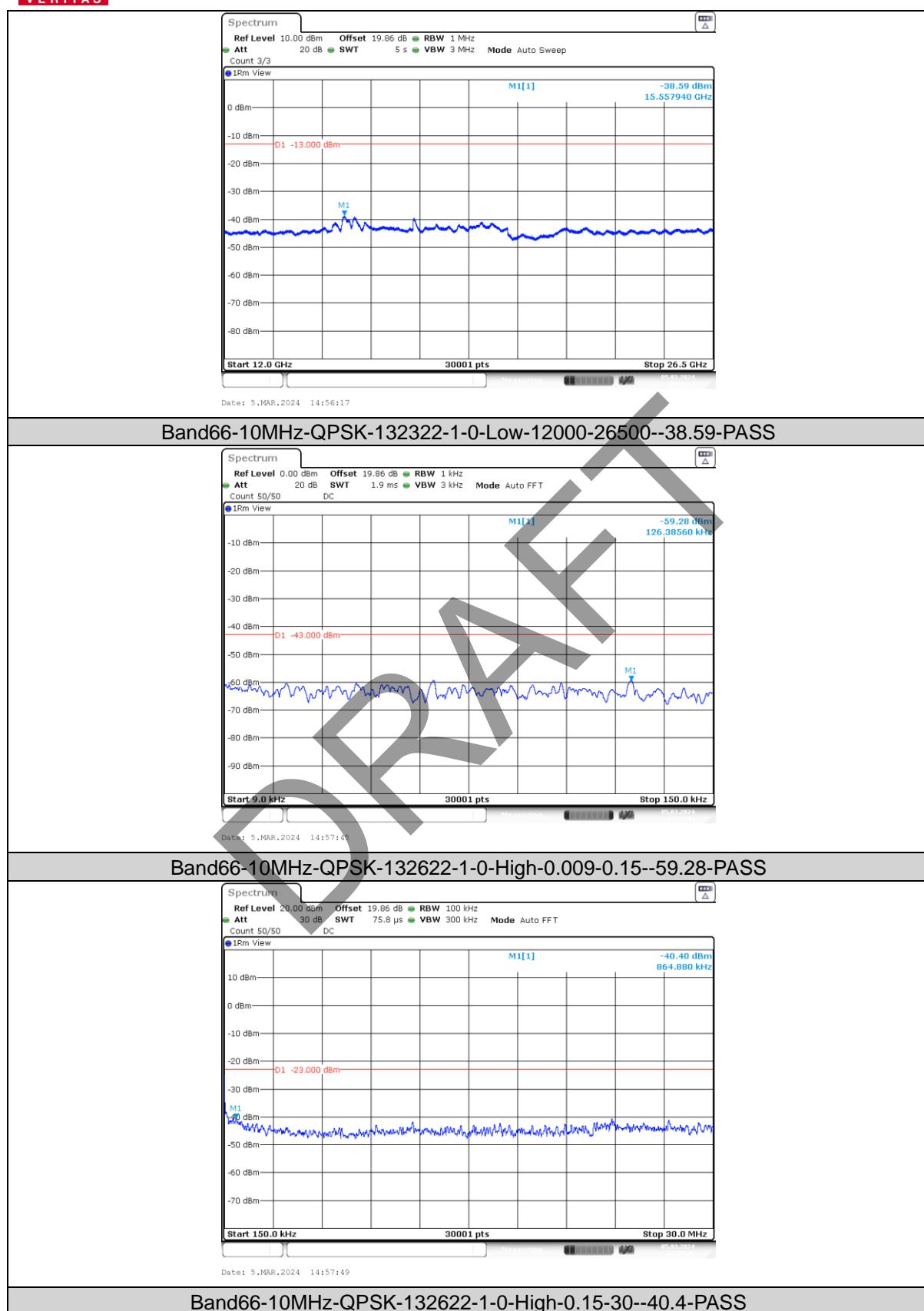
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

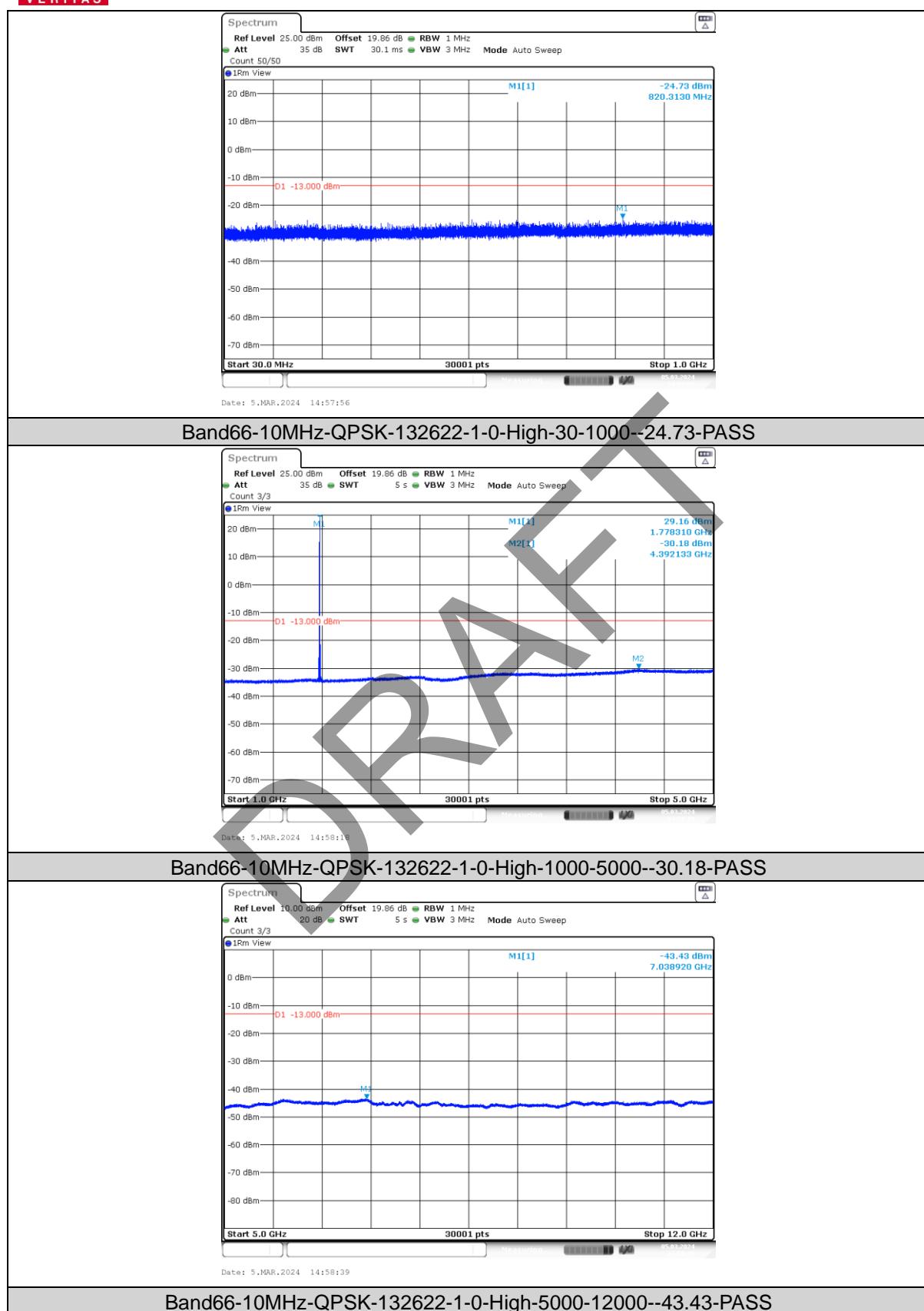


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



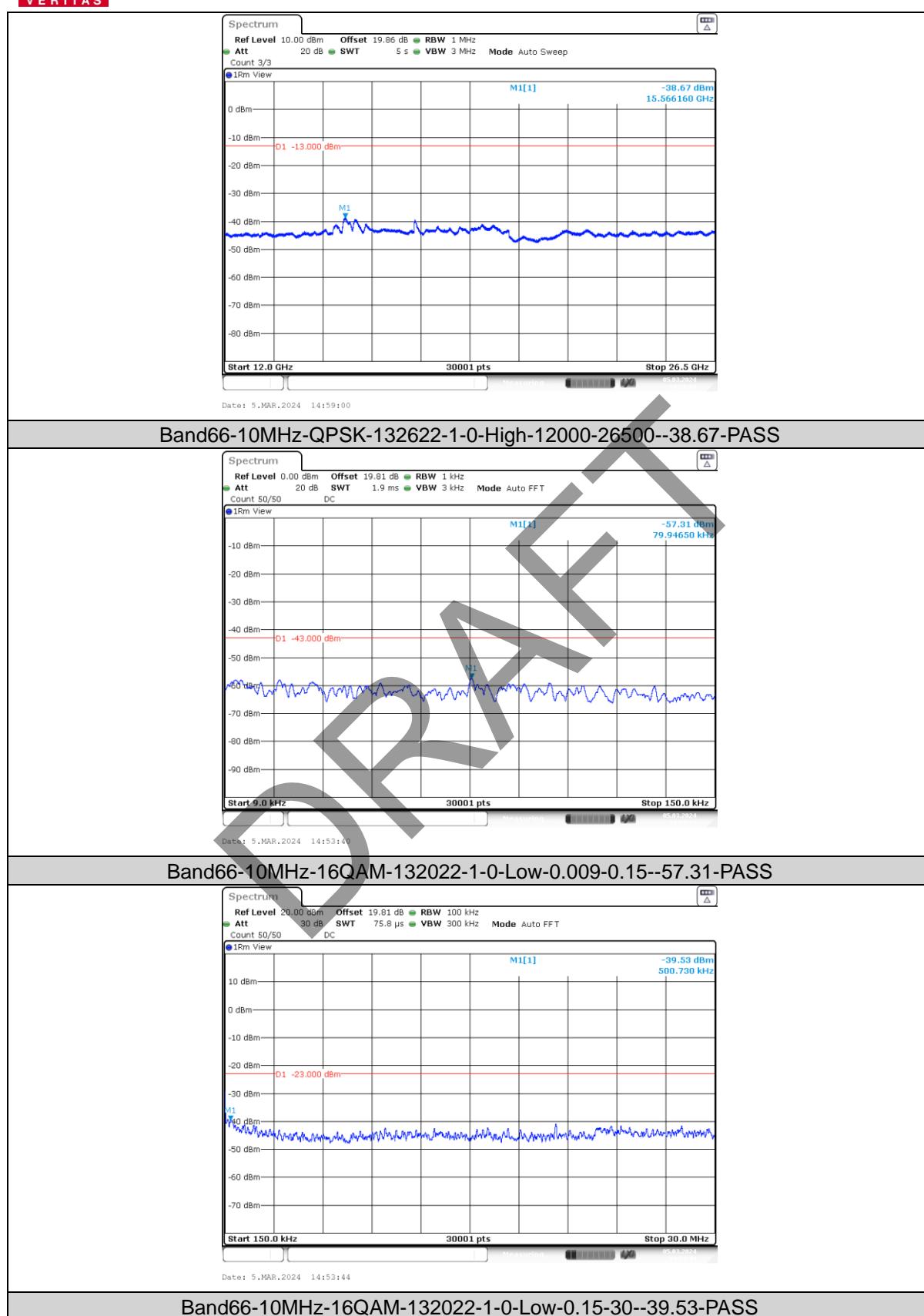
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



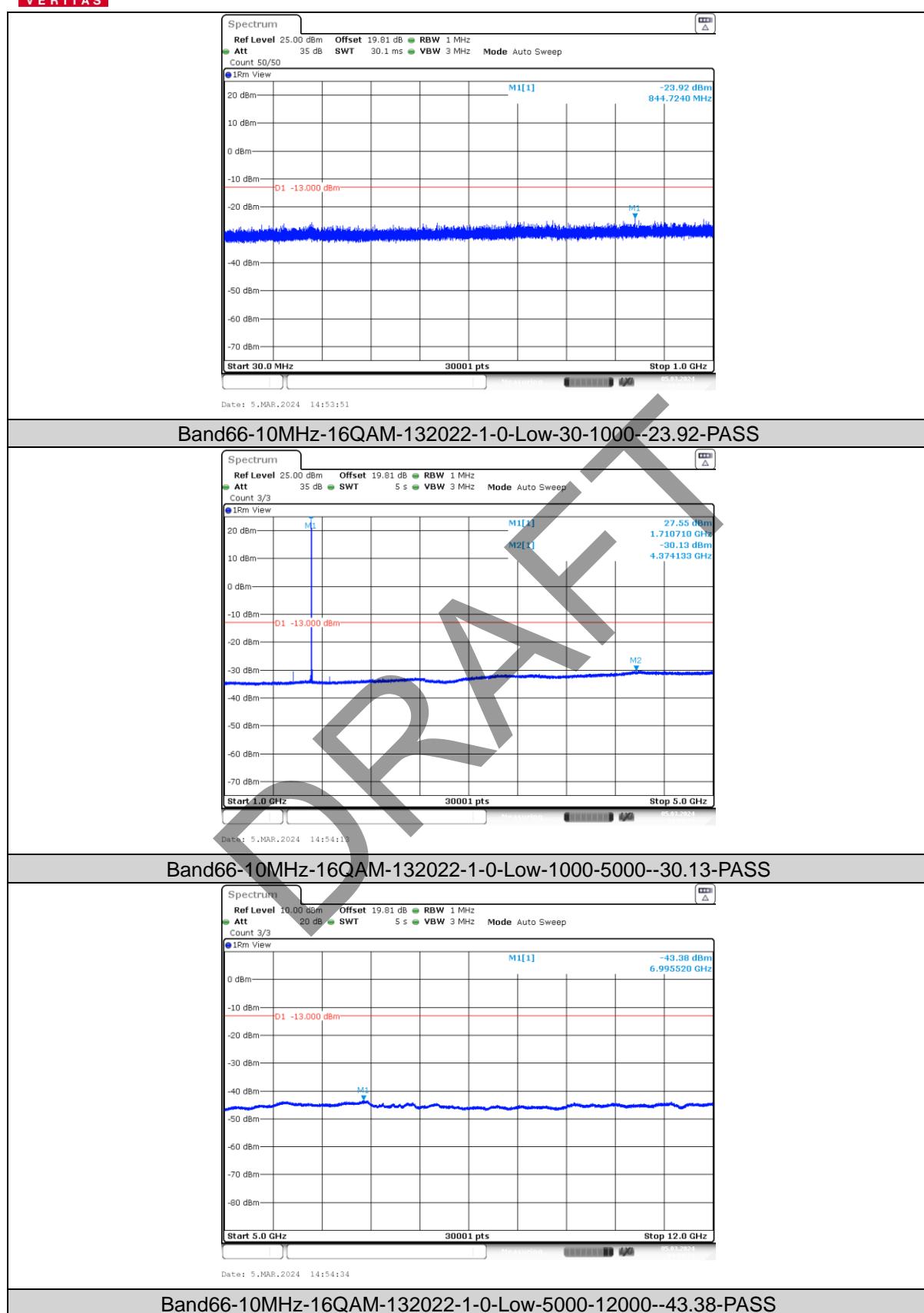
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



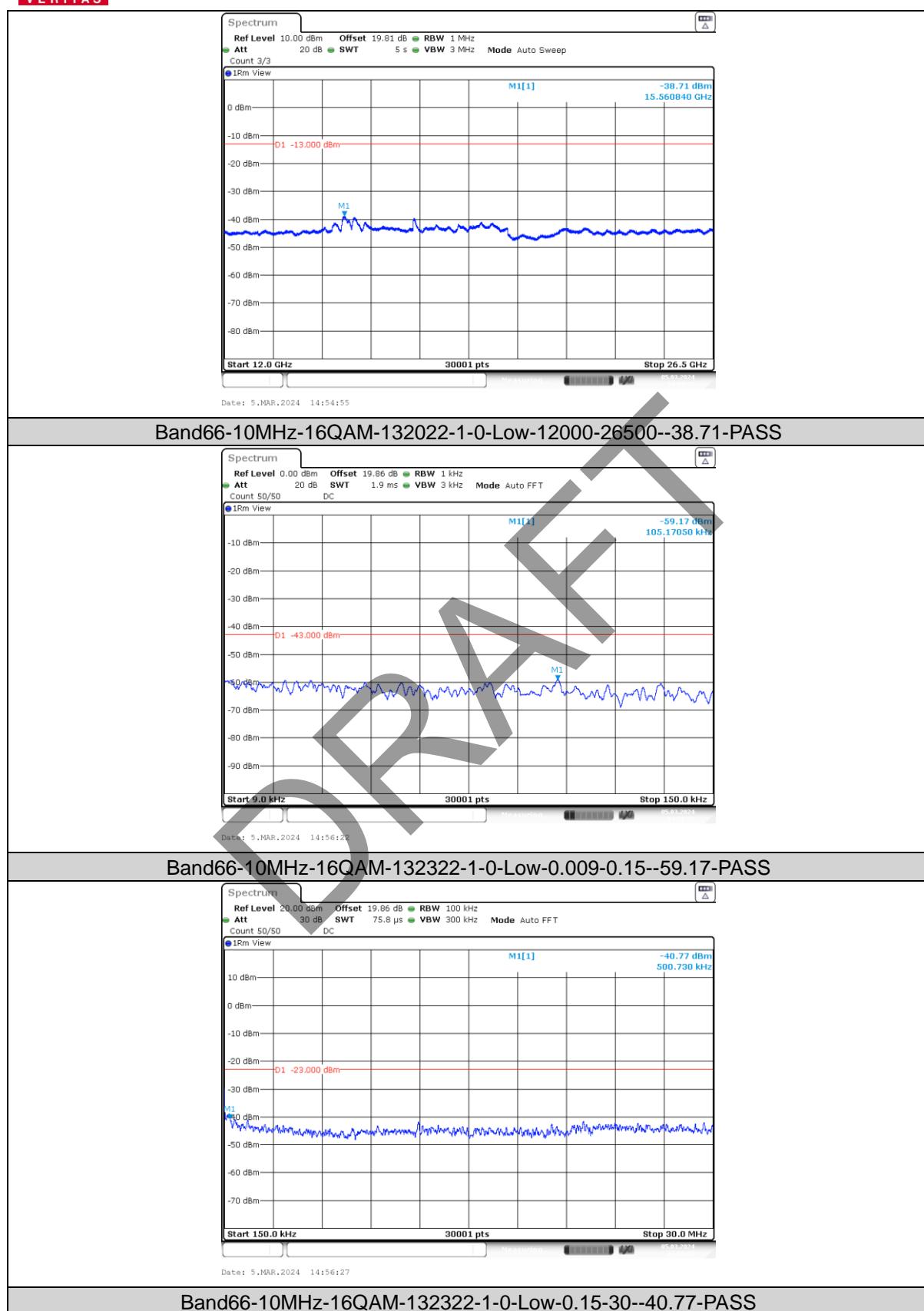
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

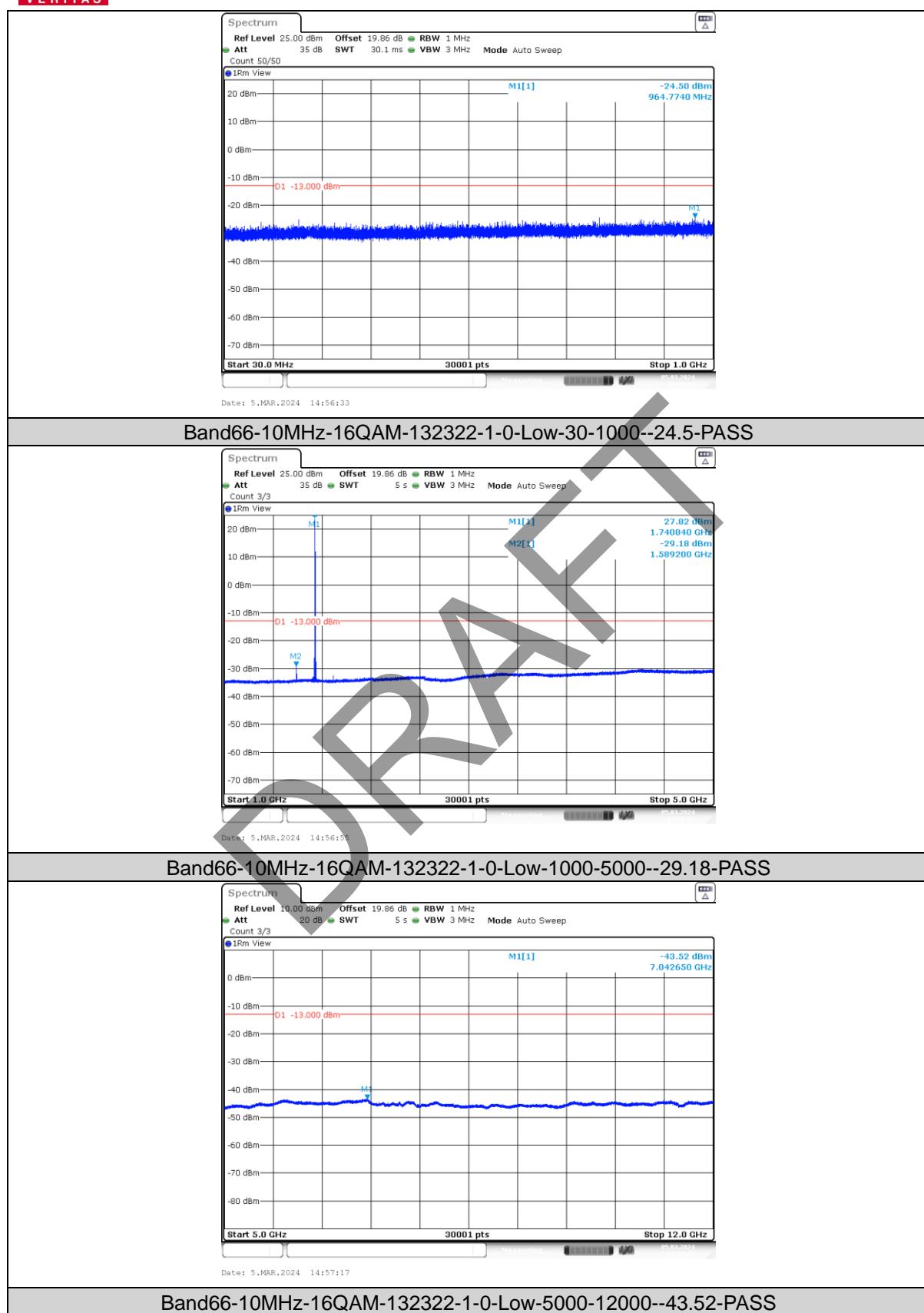


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



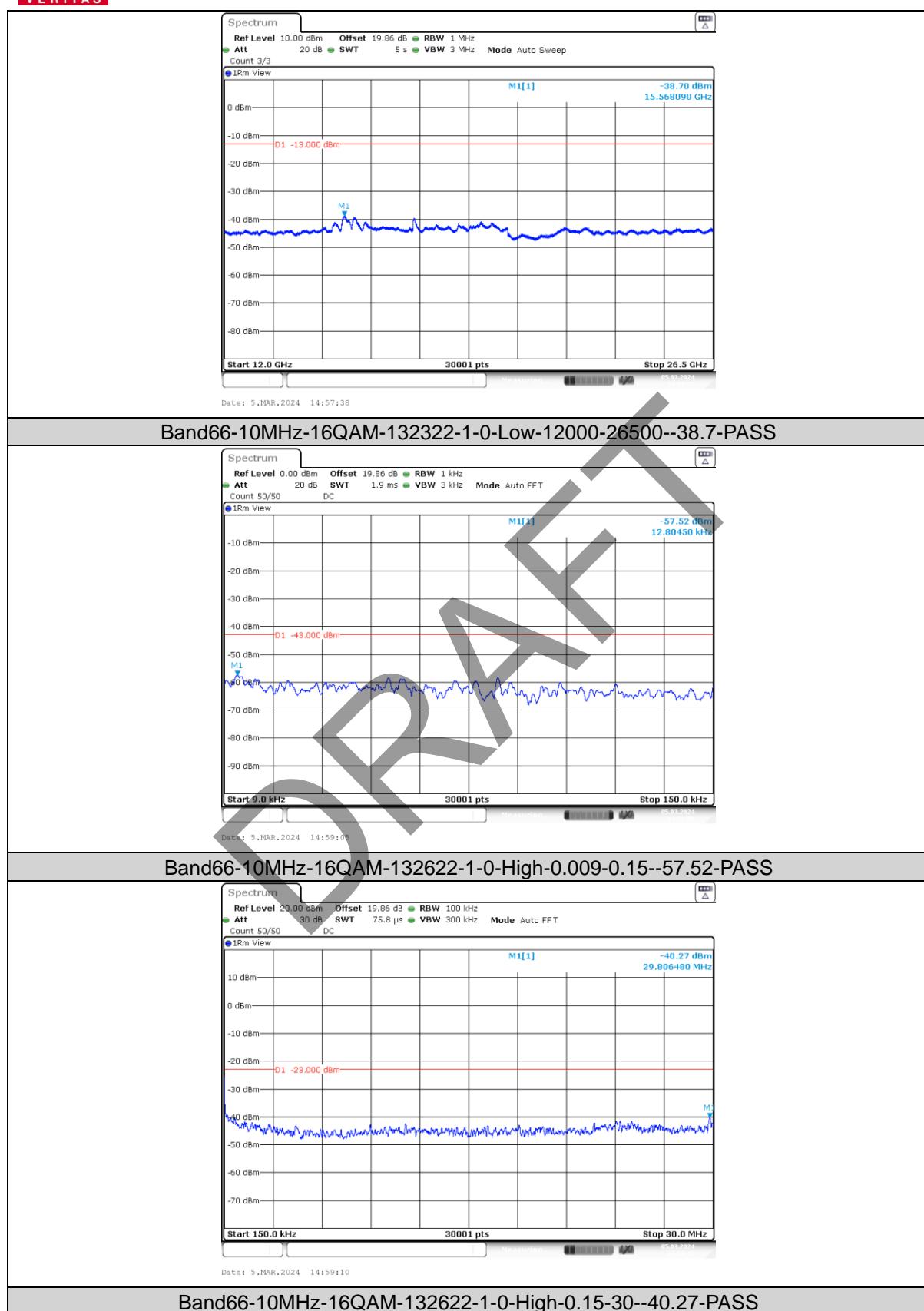
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

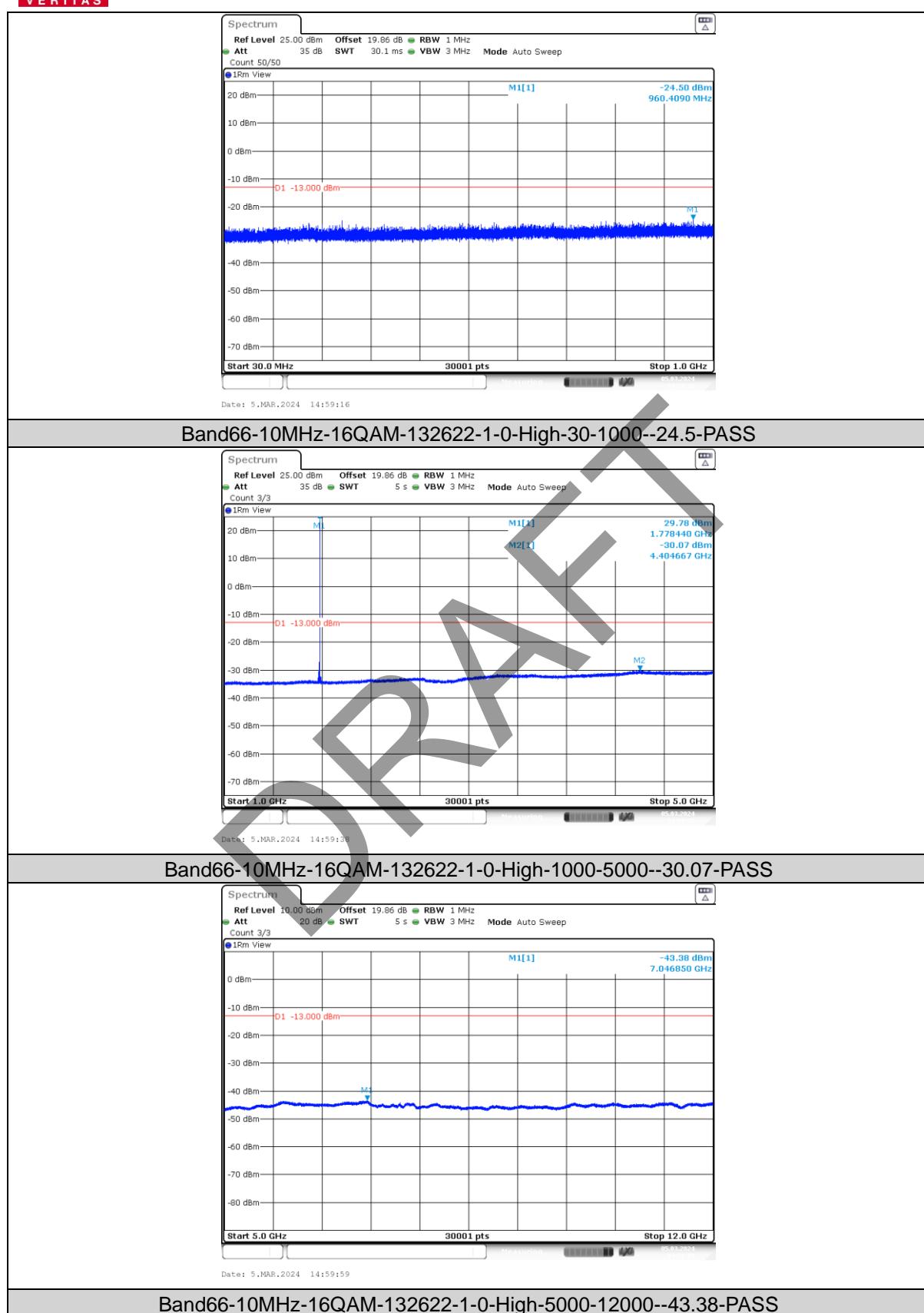


## Test Report No.: W7L-P23120015RI04



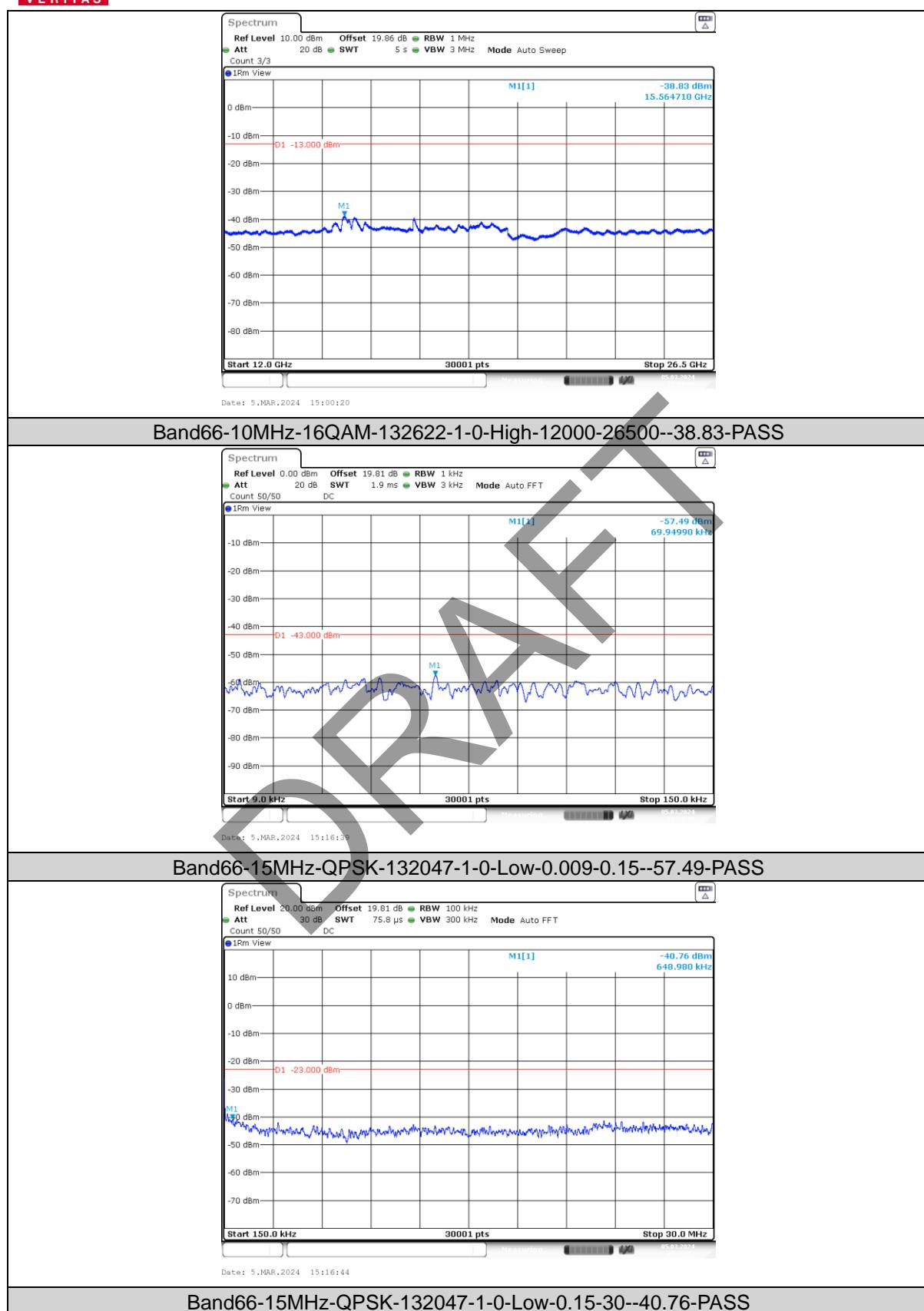


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



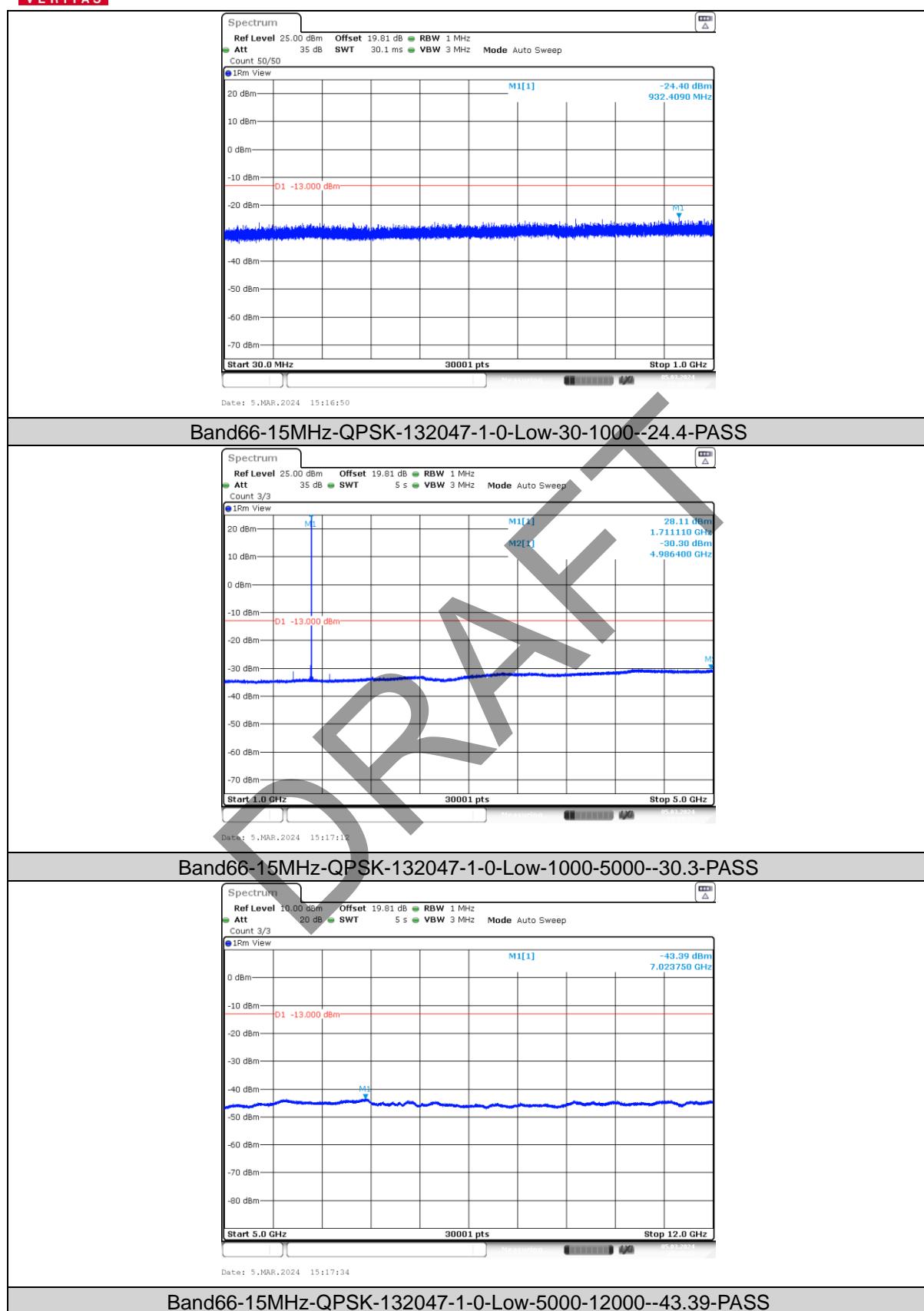
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

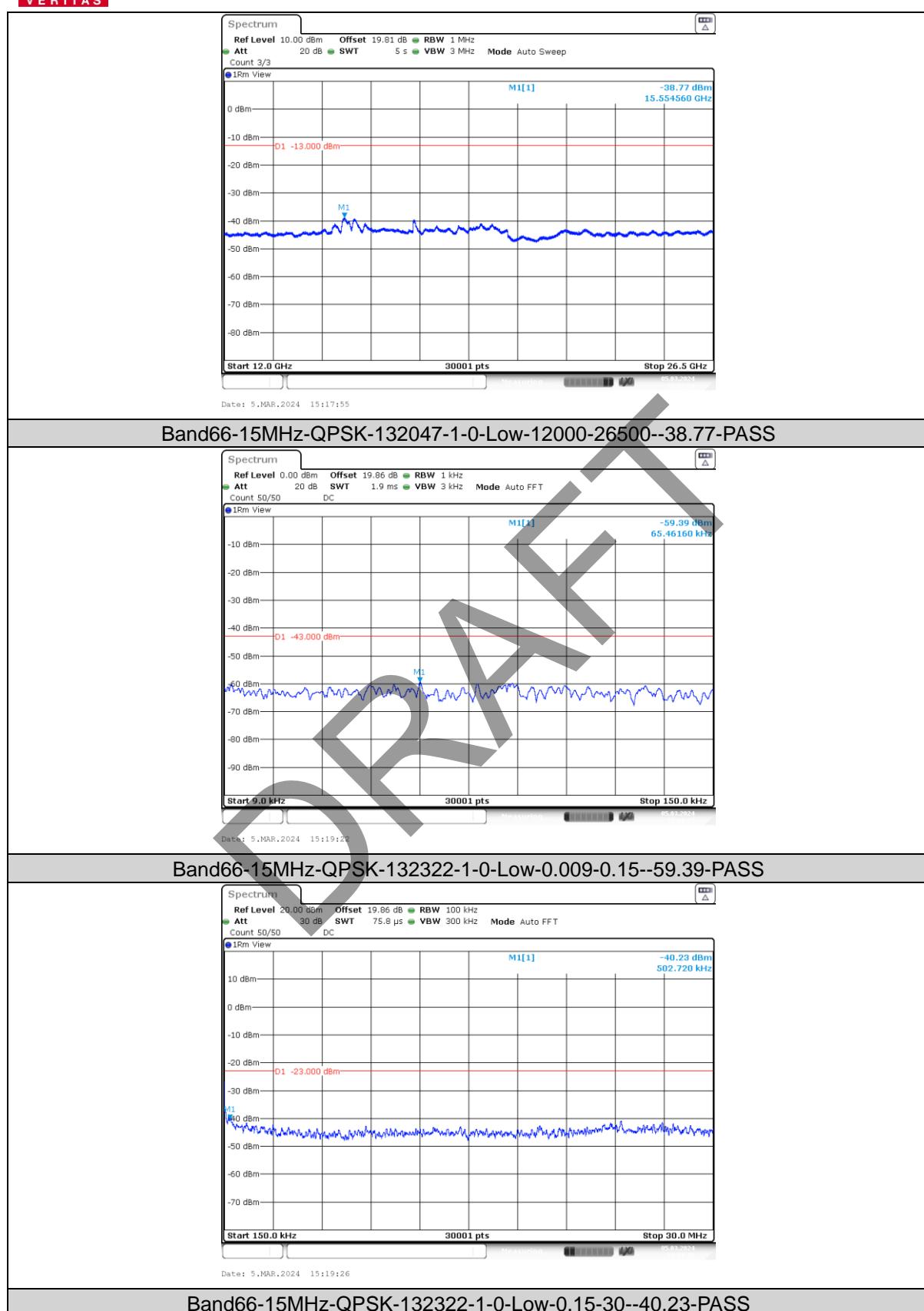


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



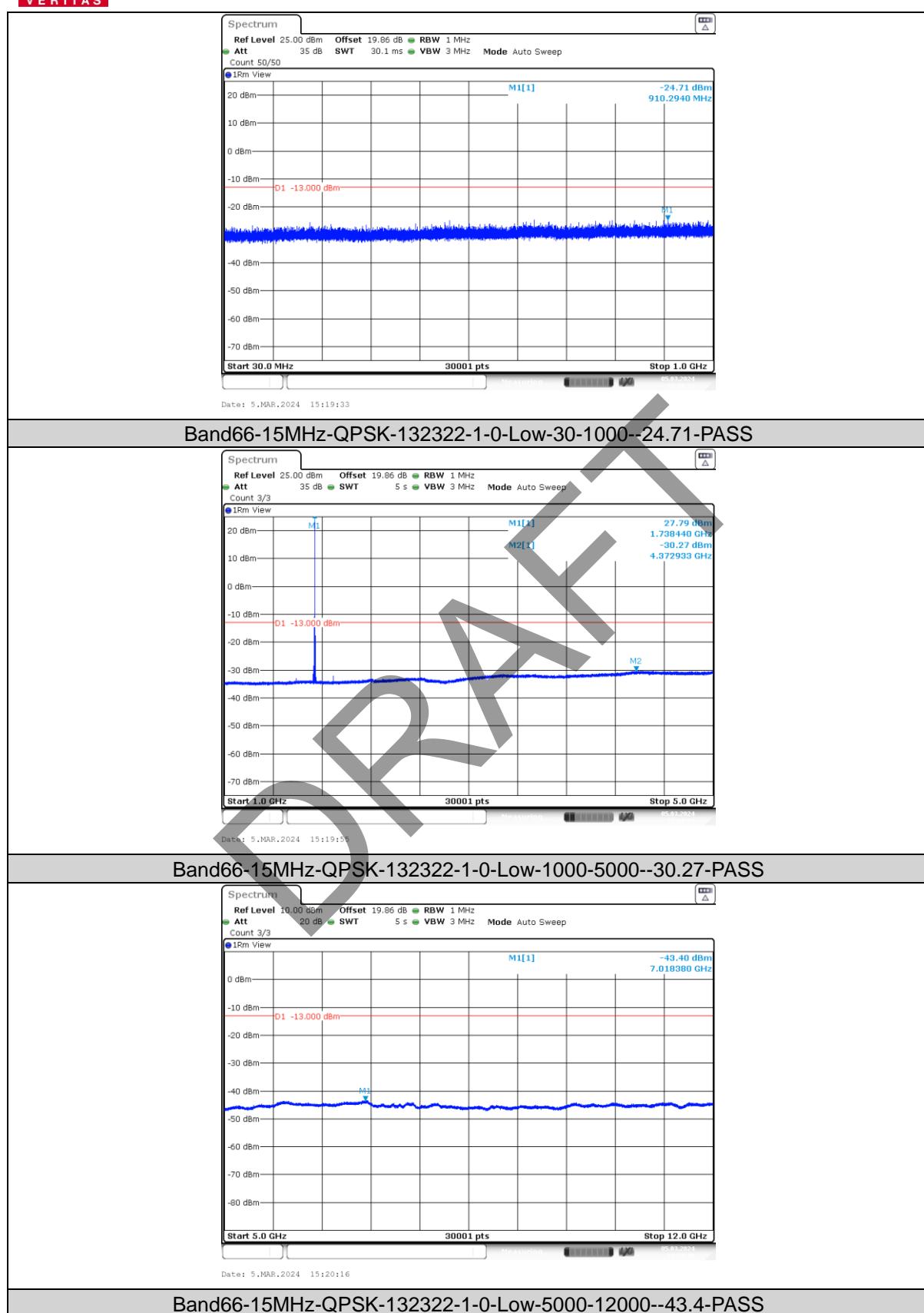
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



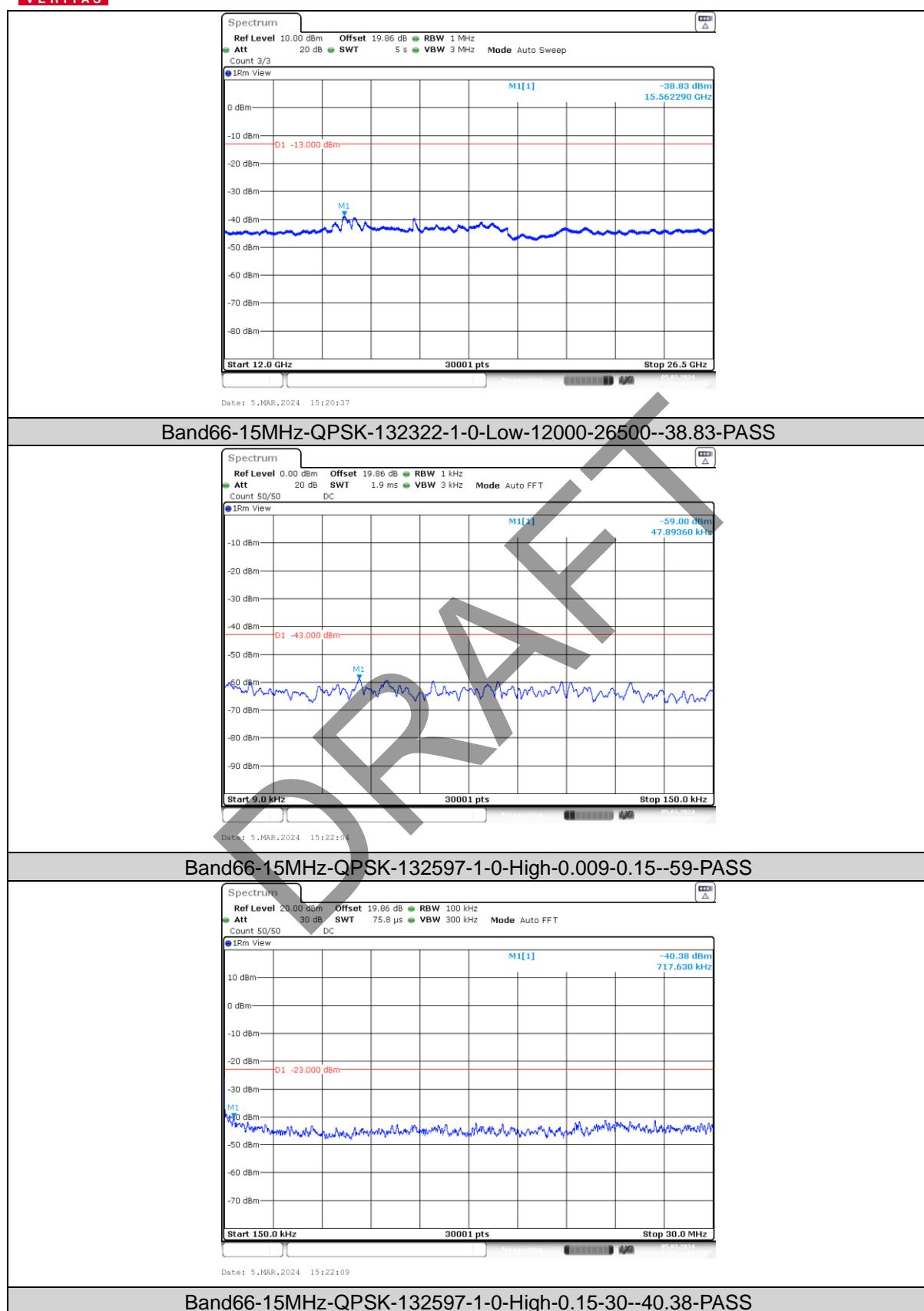
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

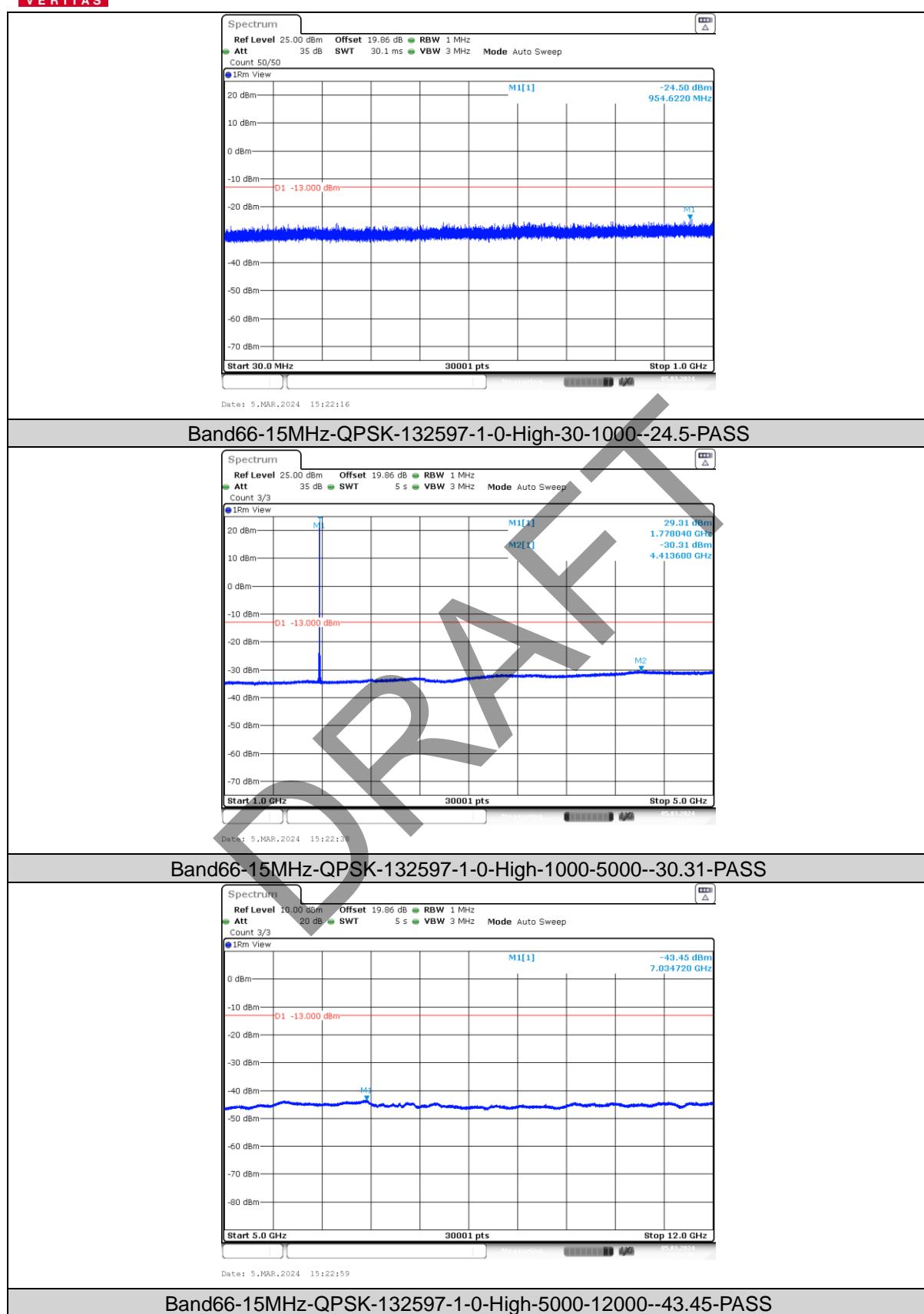


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



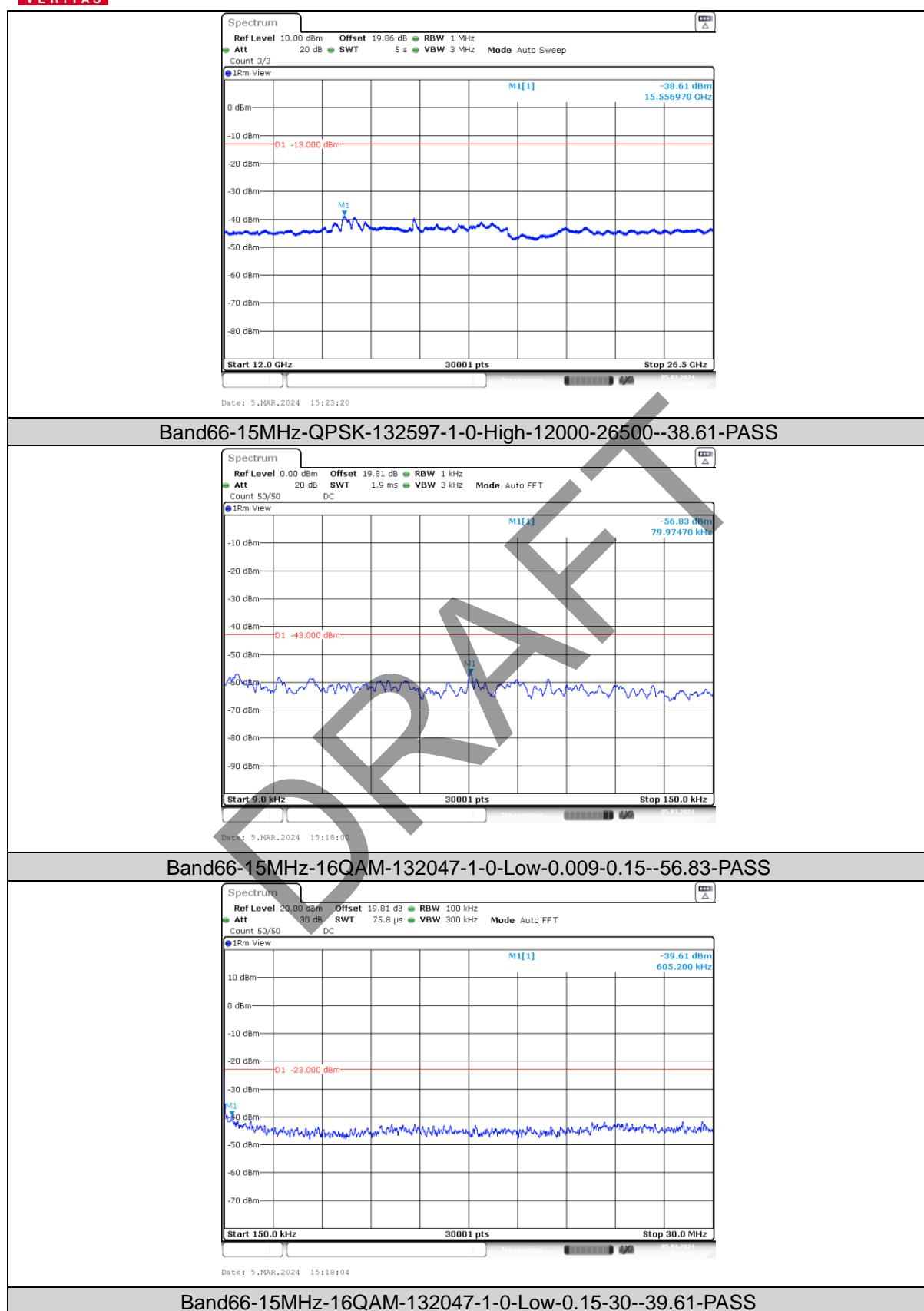
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

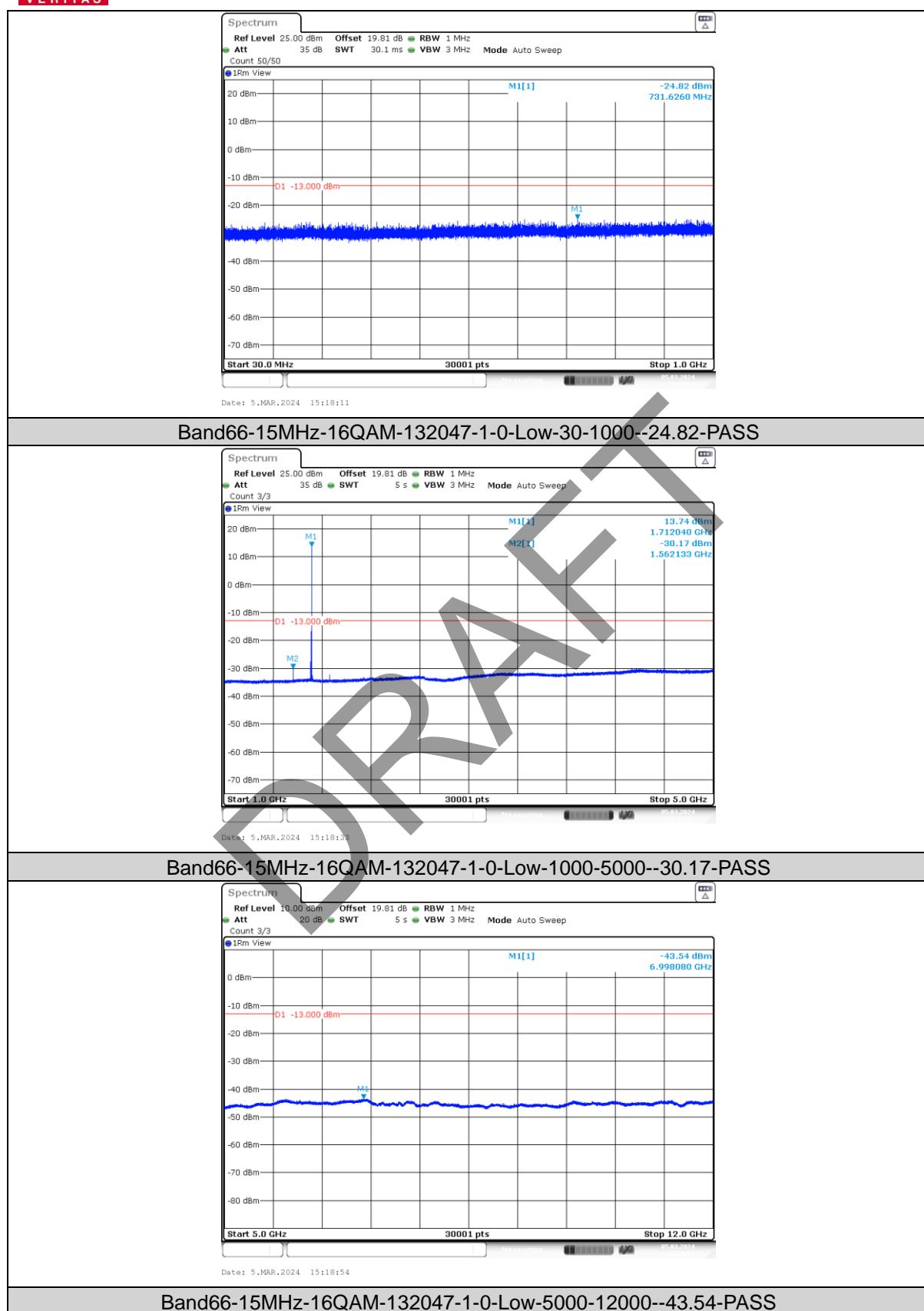


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



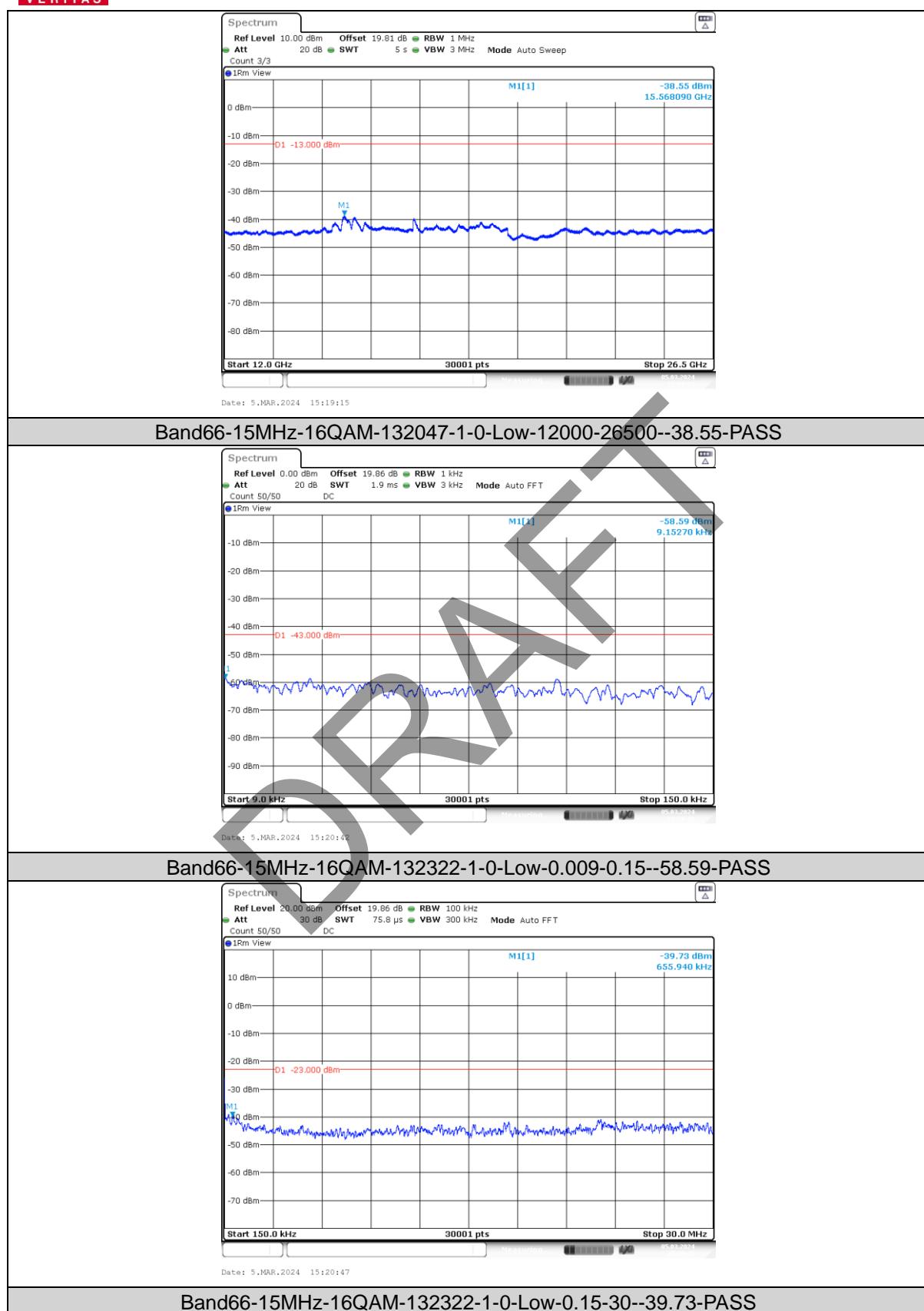
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

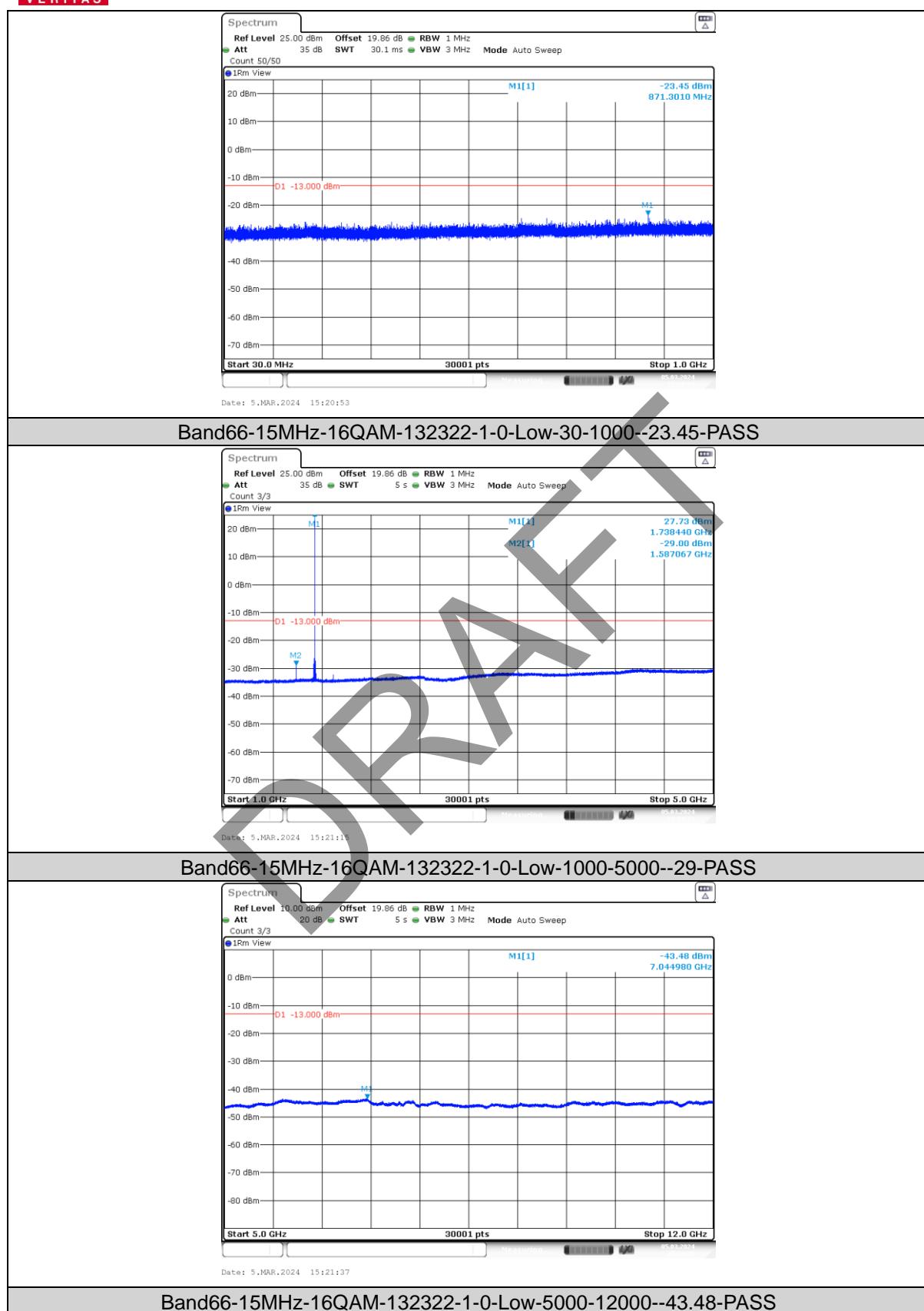


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



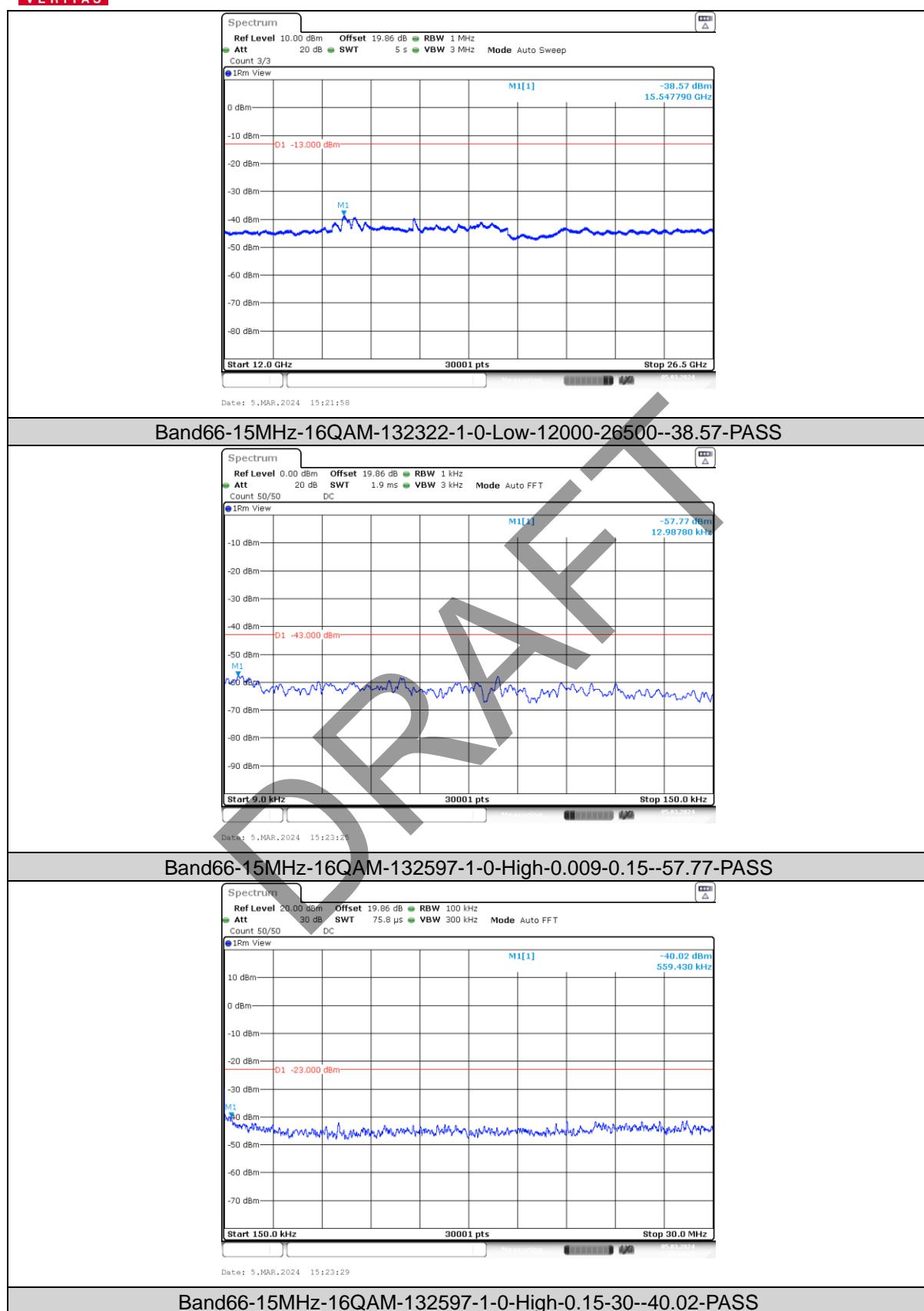
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



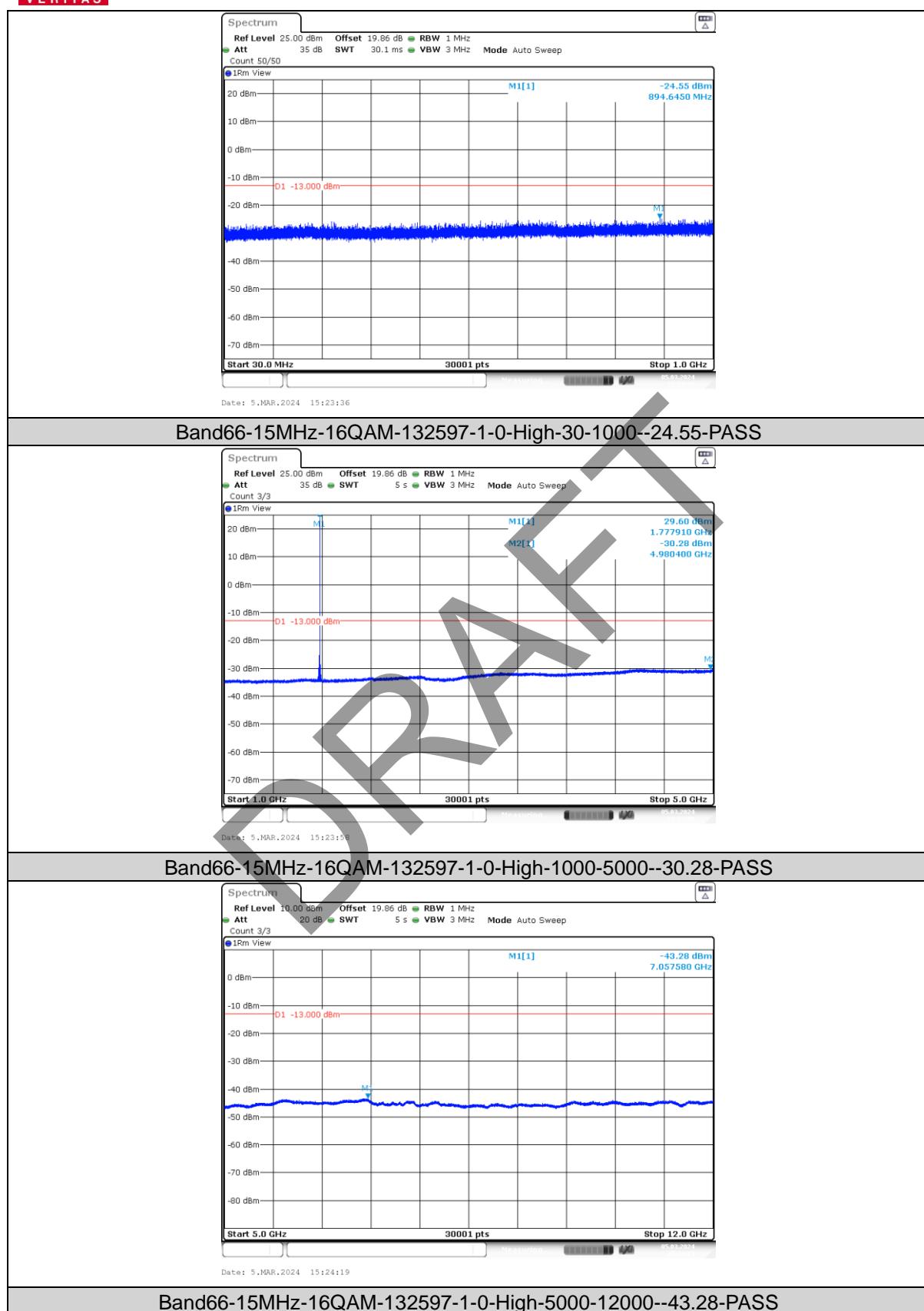
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



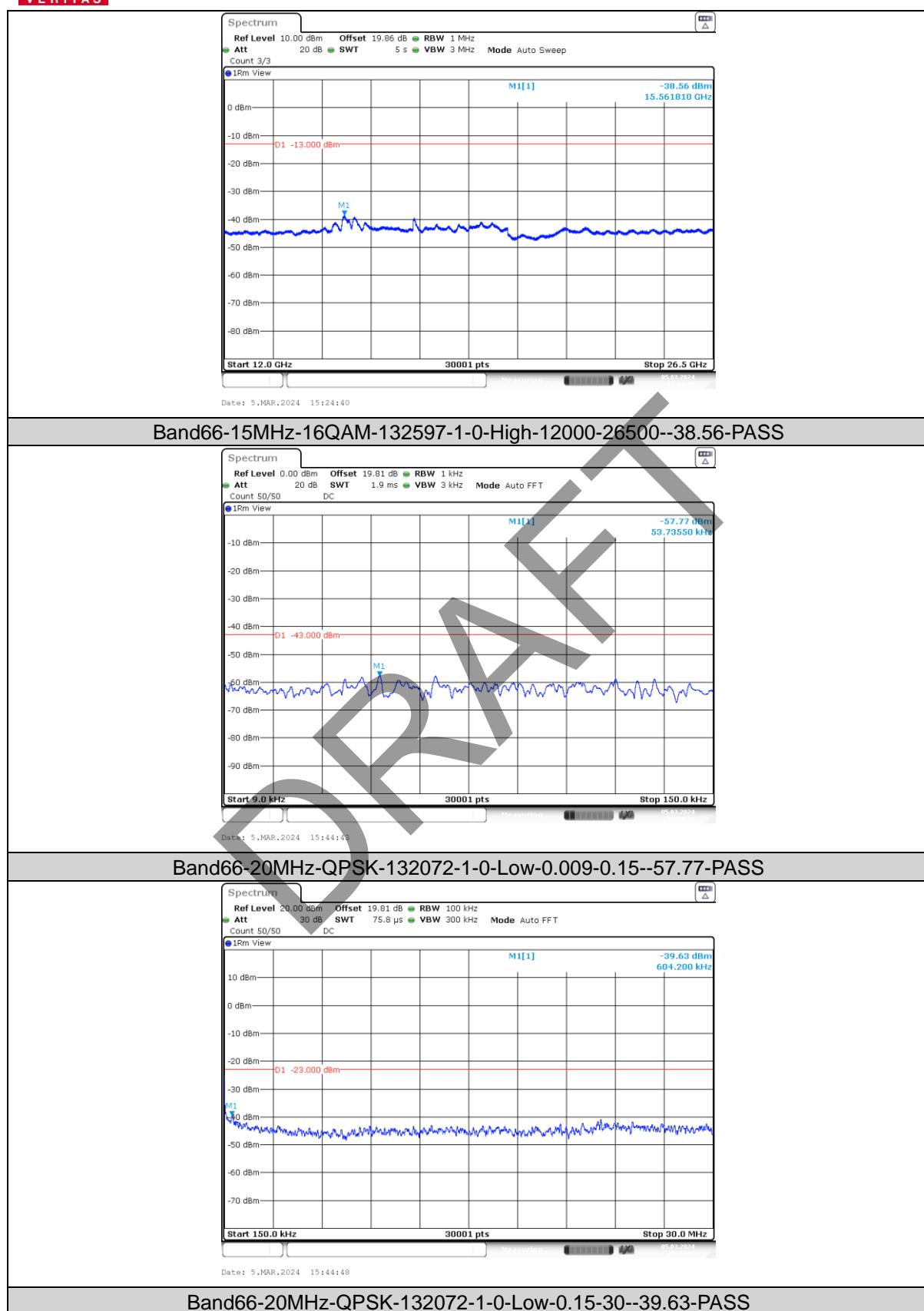
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



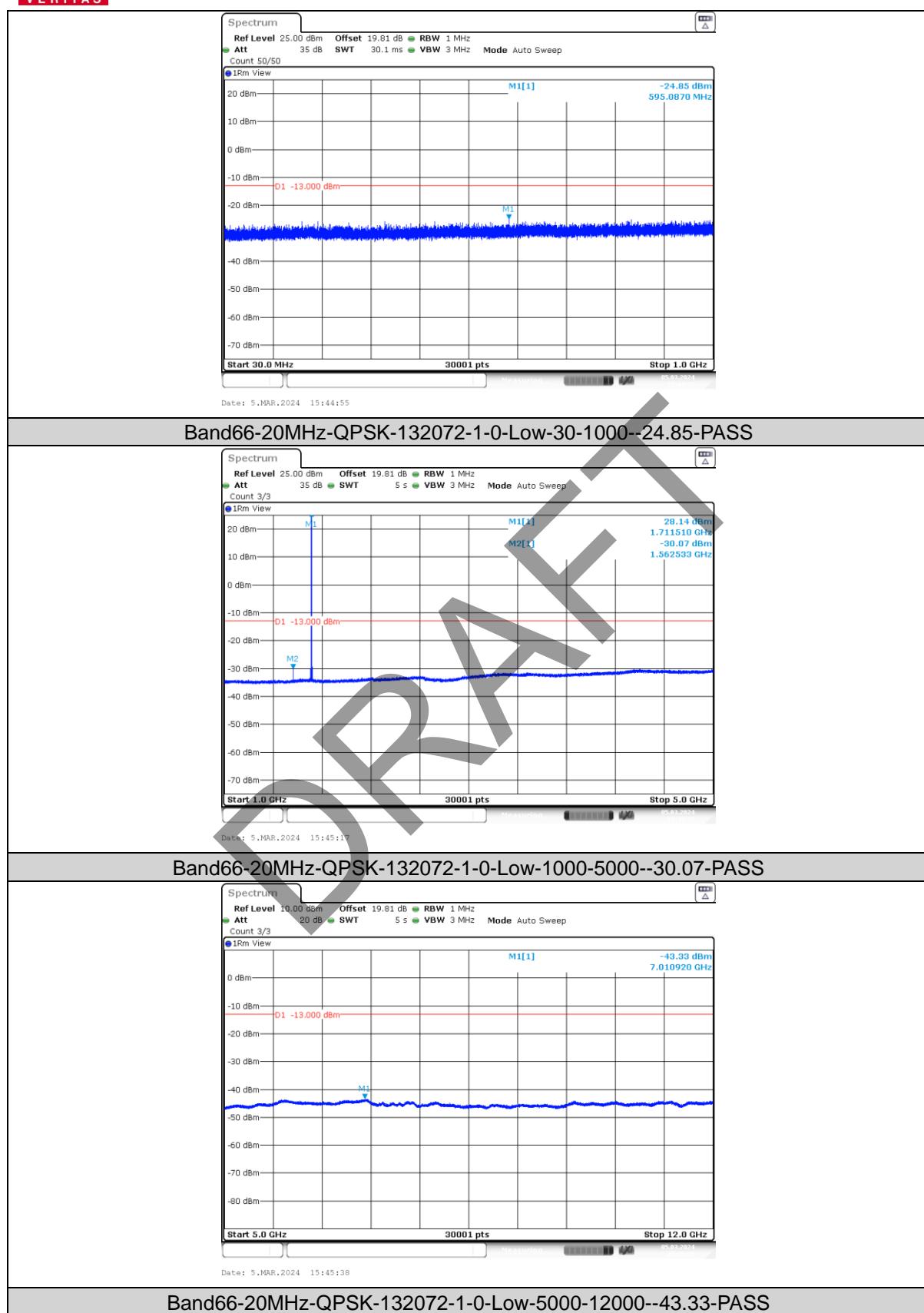
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



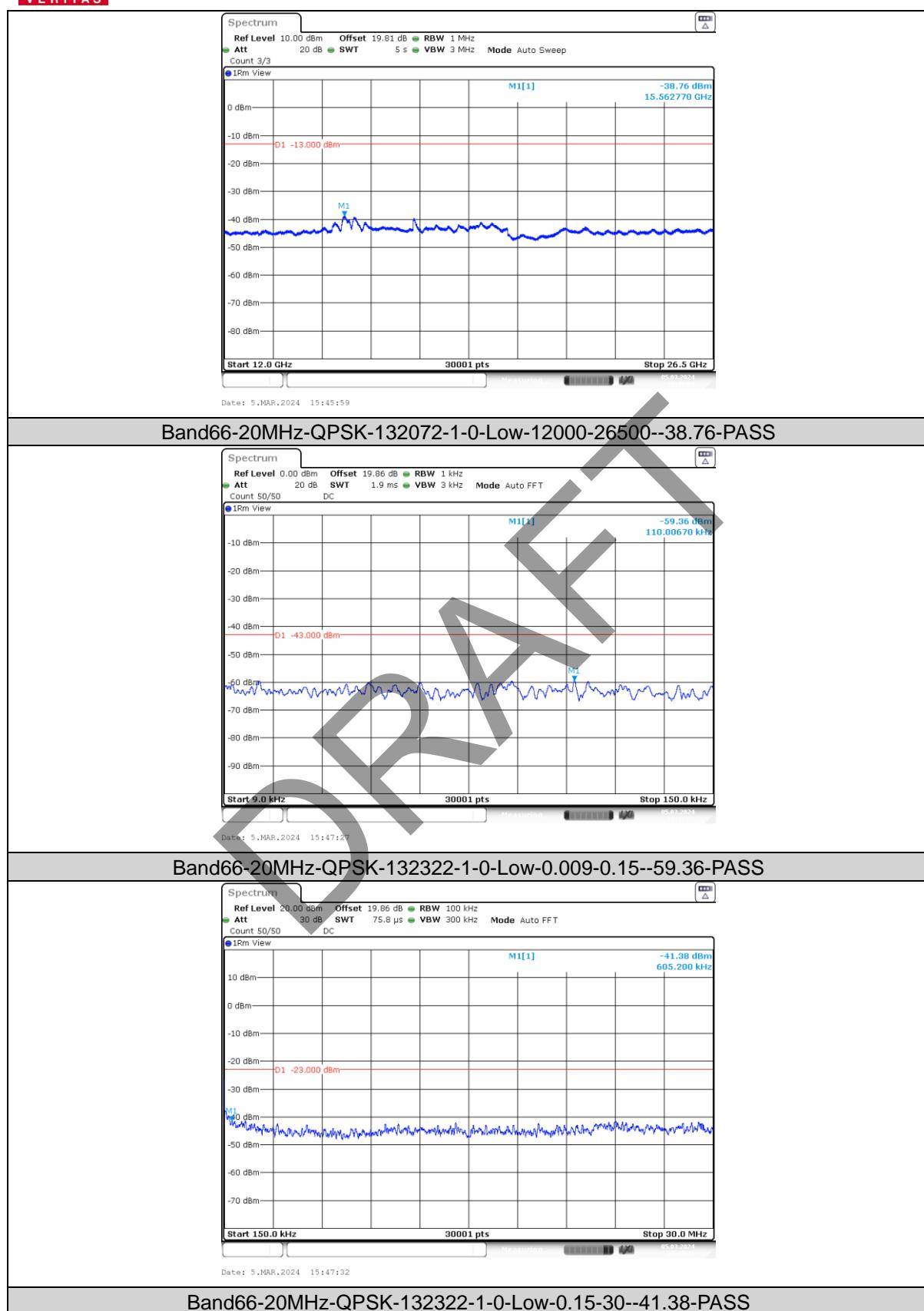
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



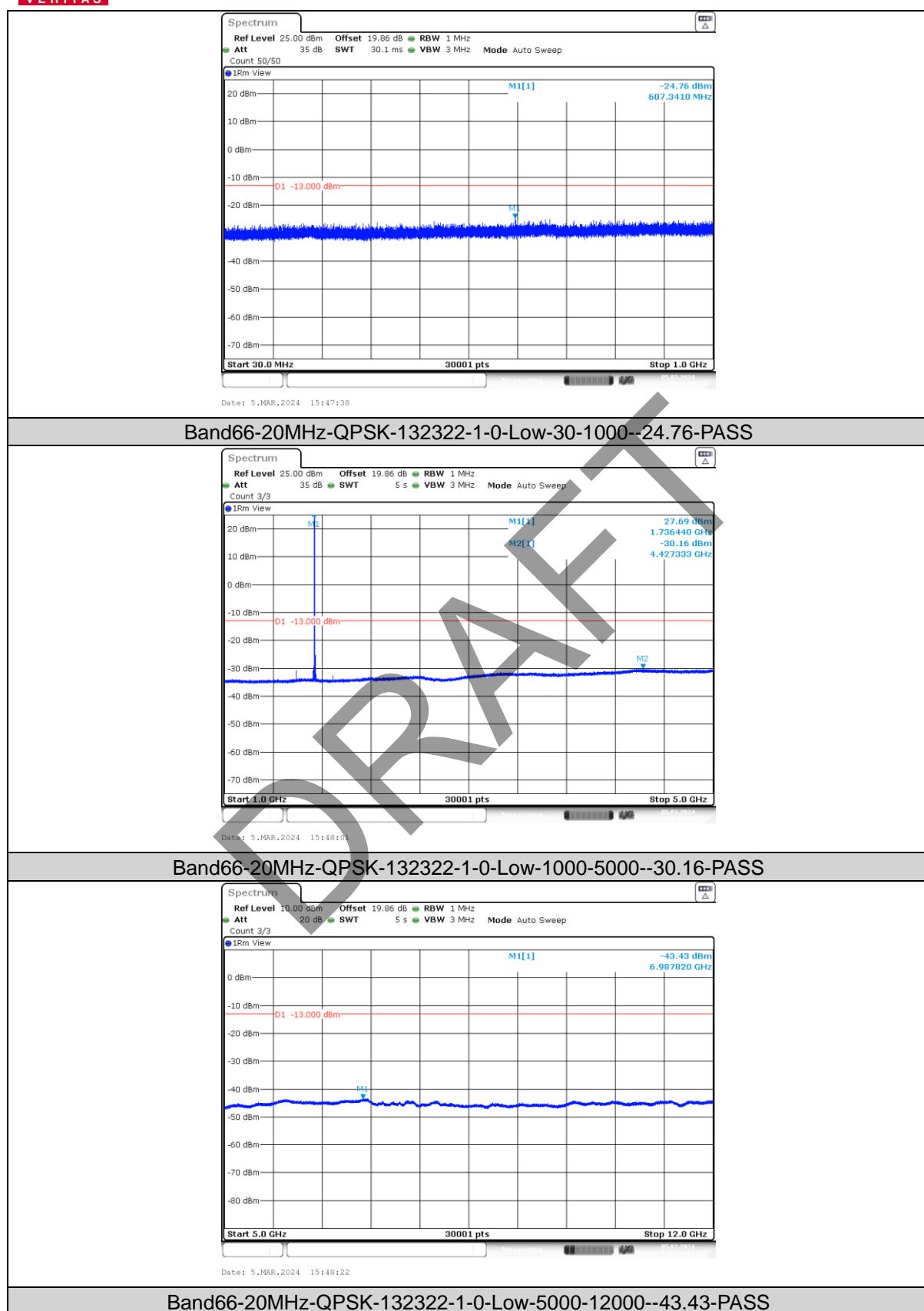
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



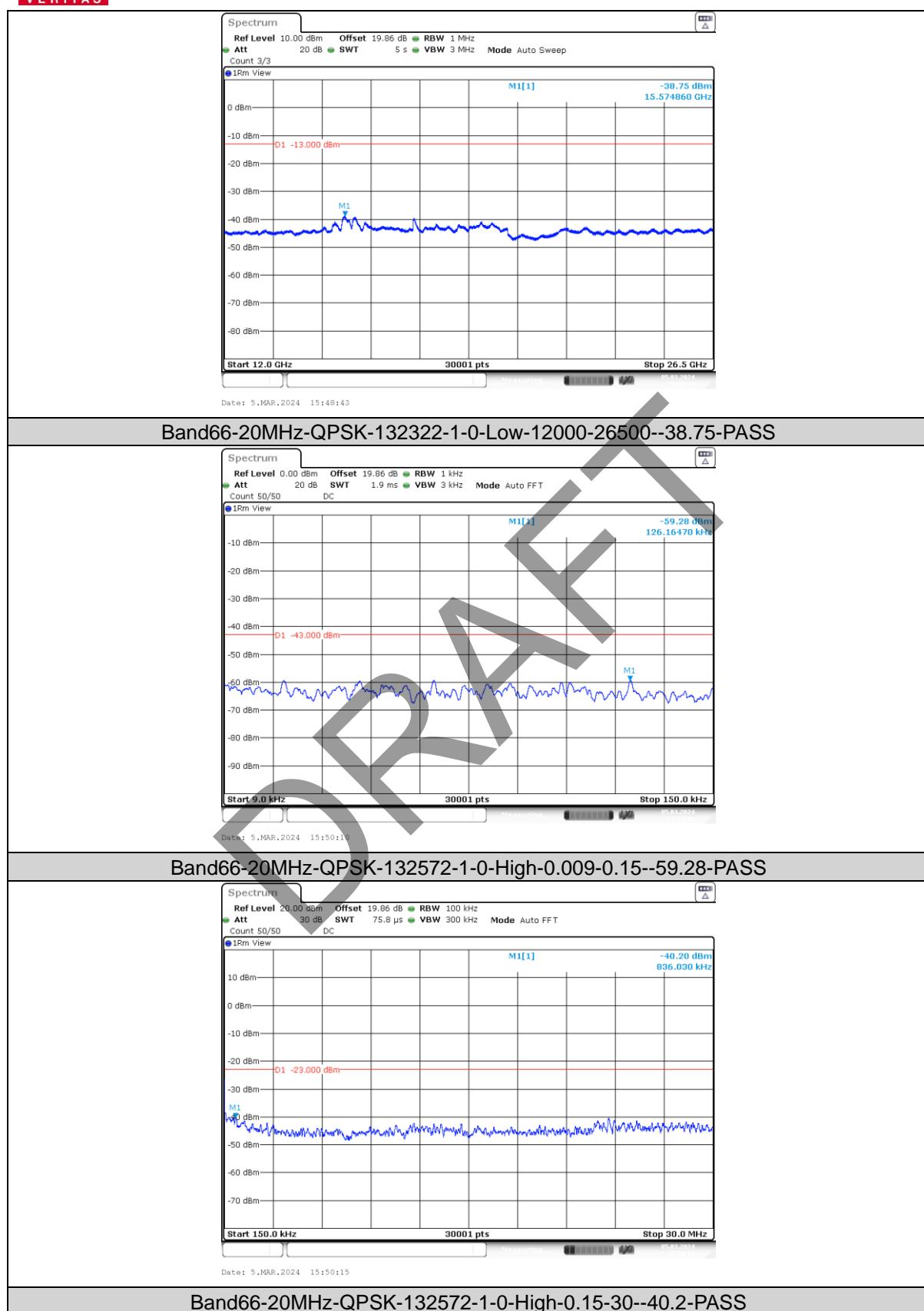
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

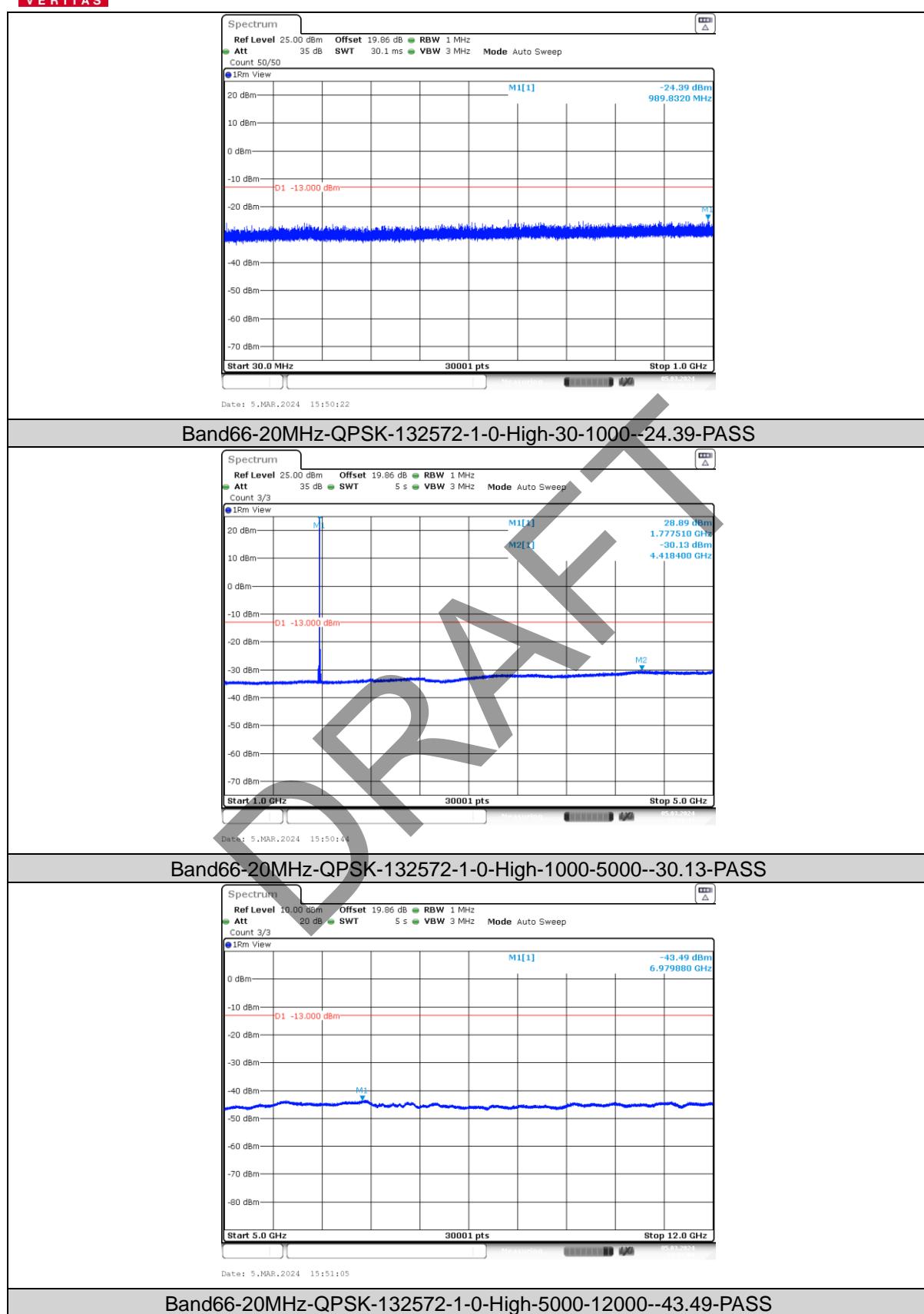


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



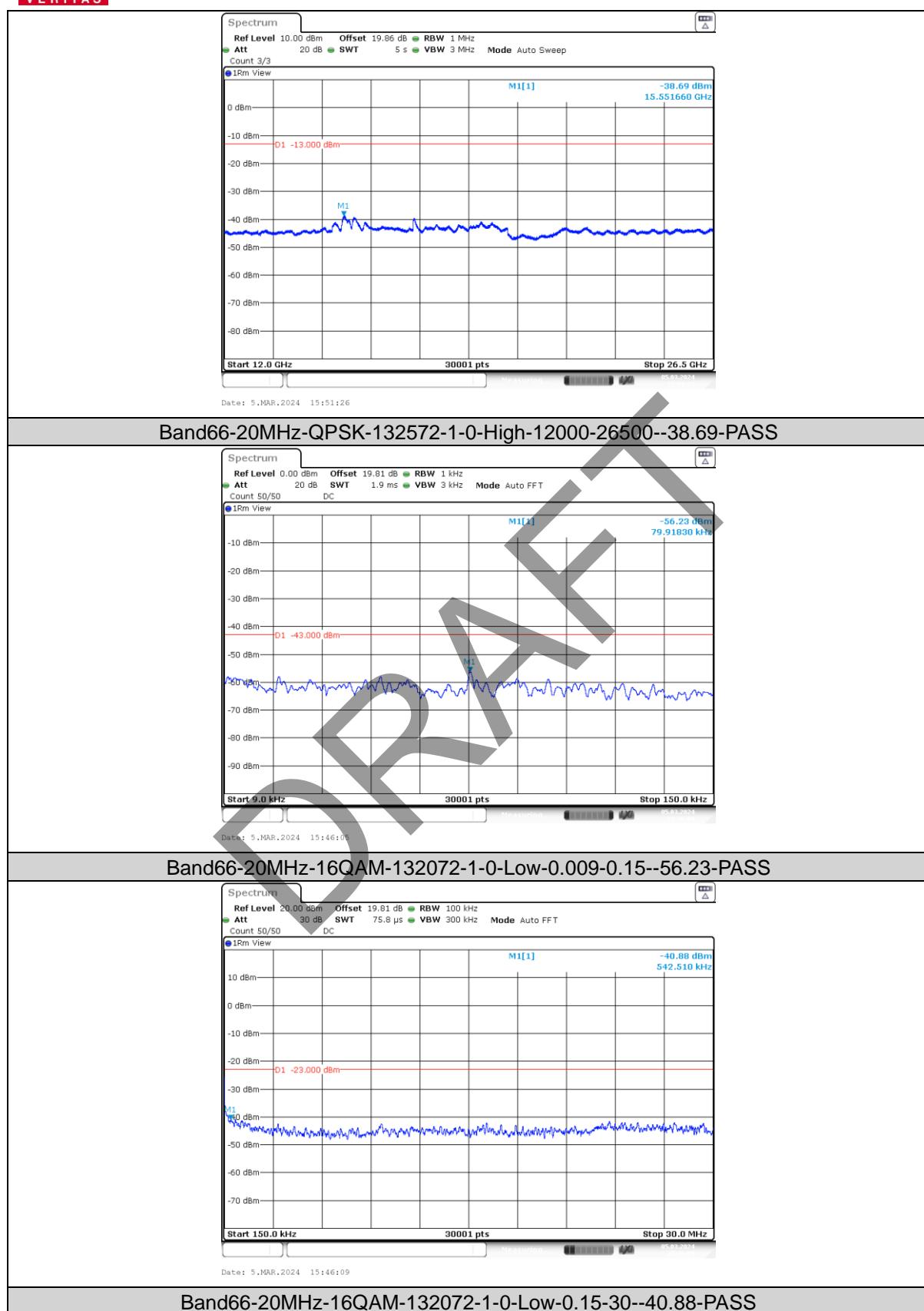
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



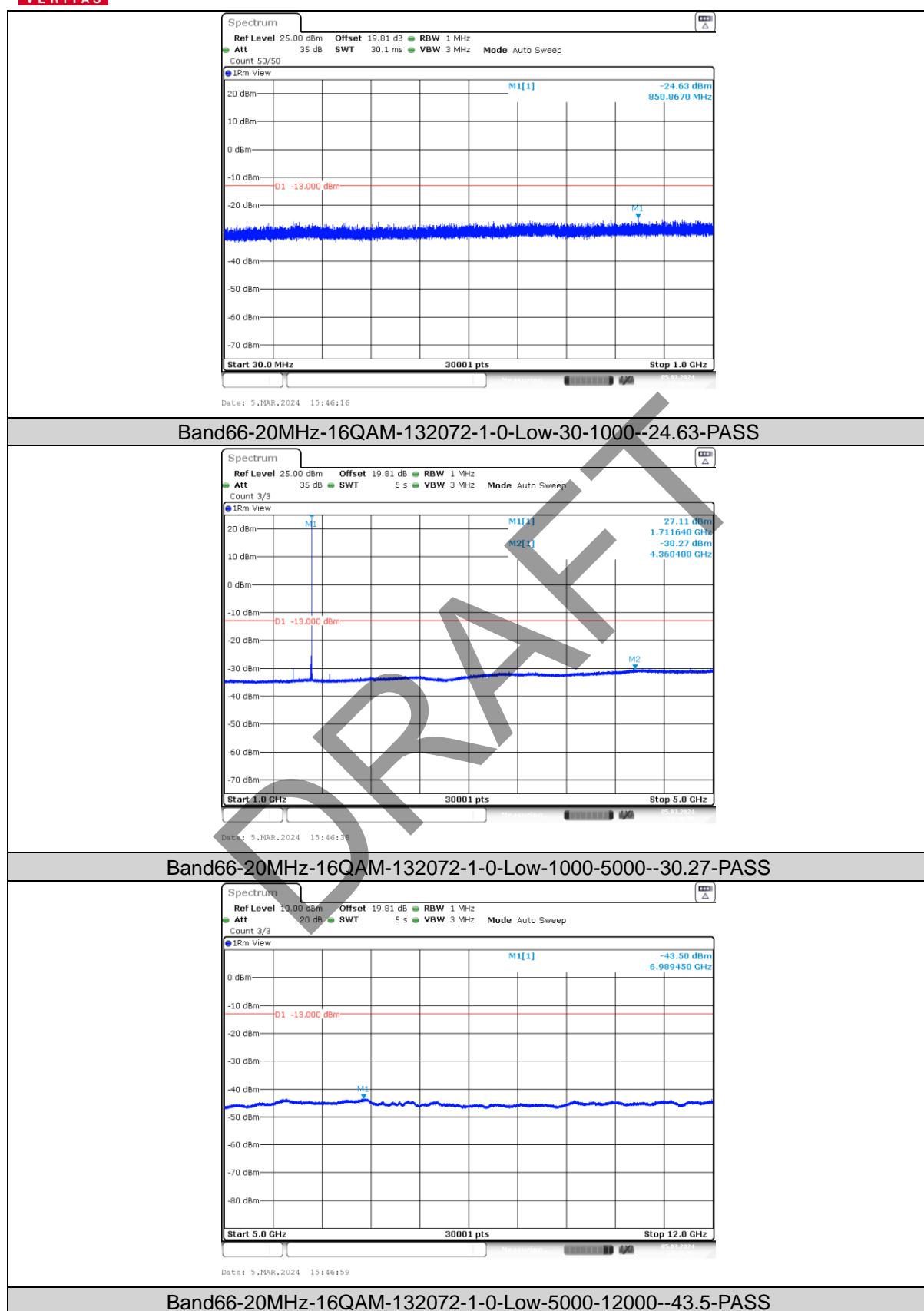
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



## Test Report No.: W7L-P23120015RI04



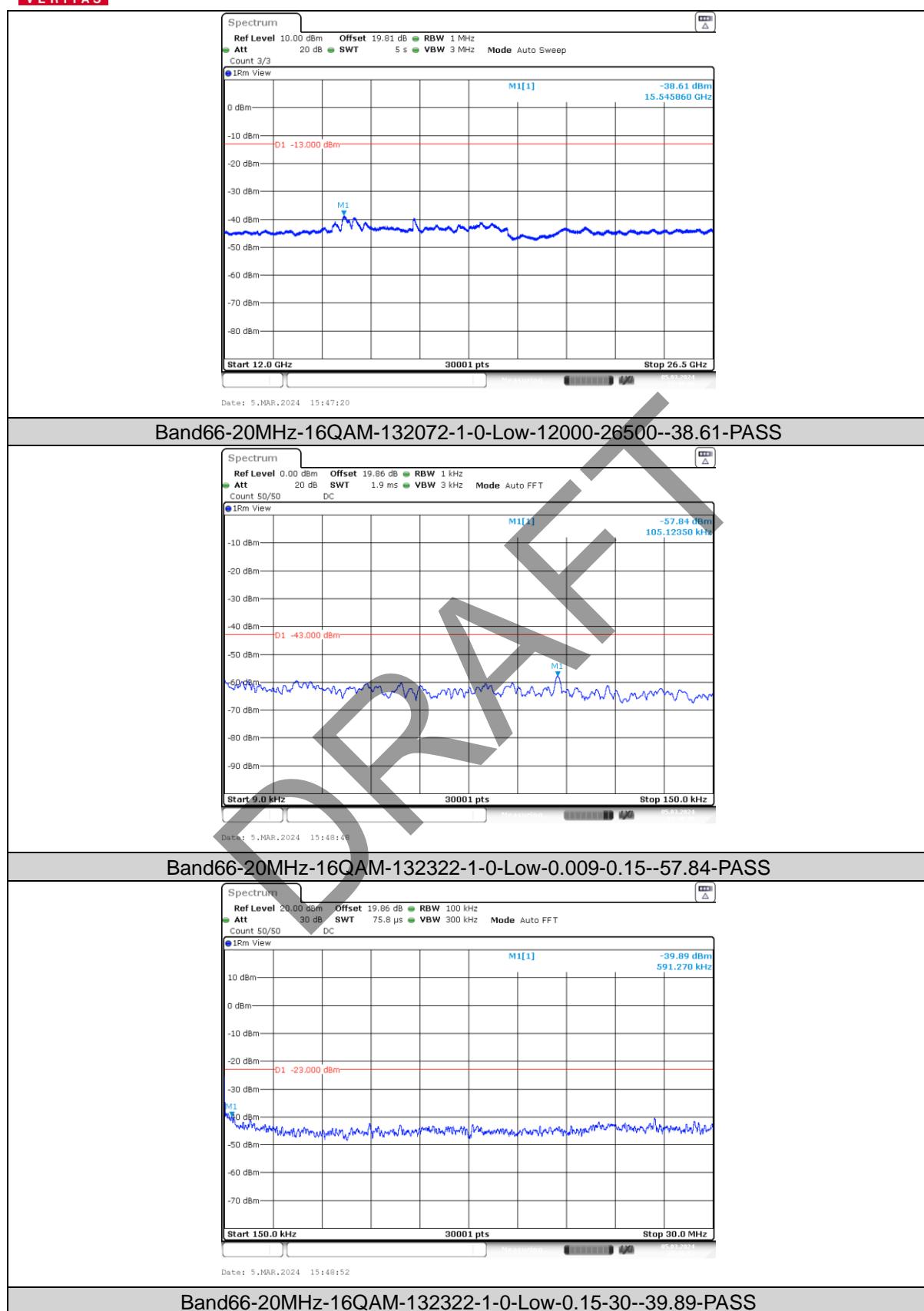
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

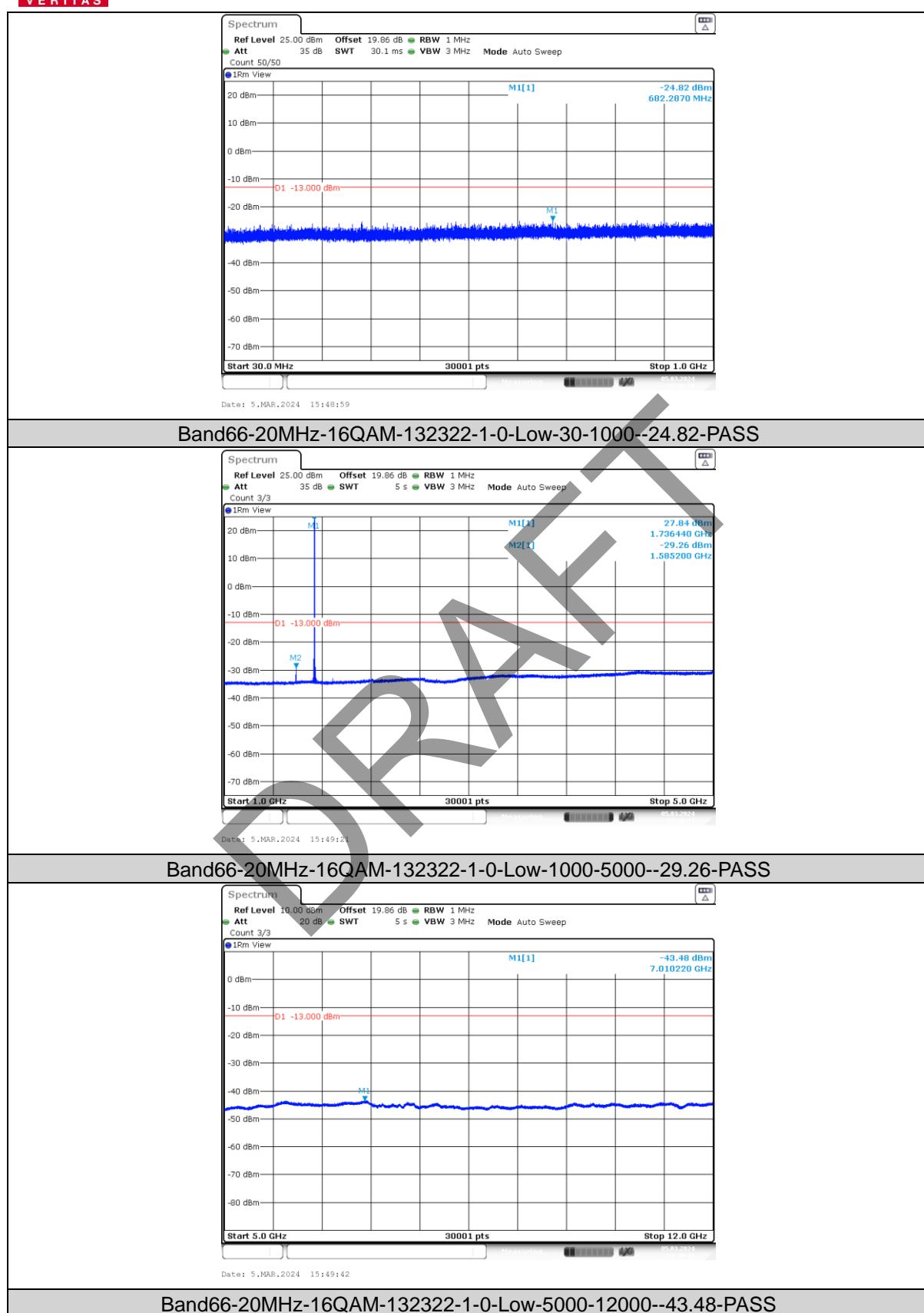


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



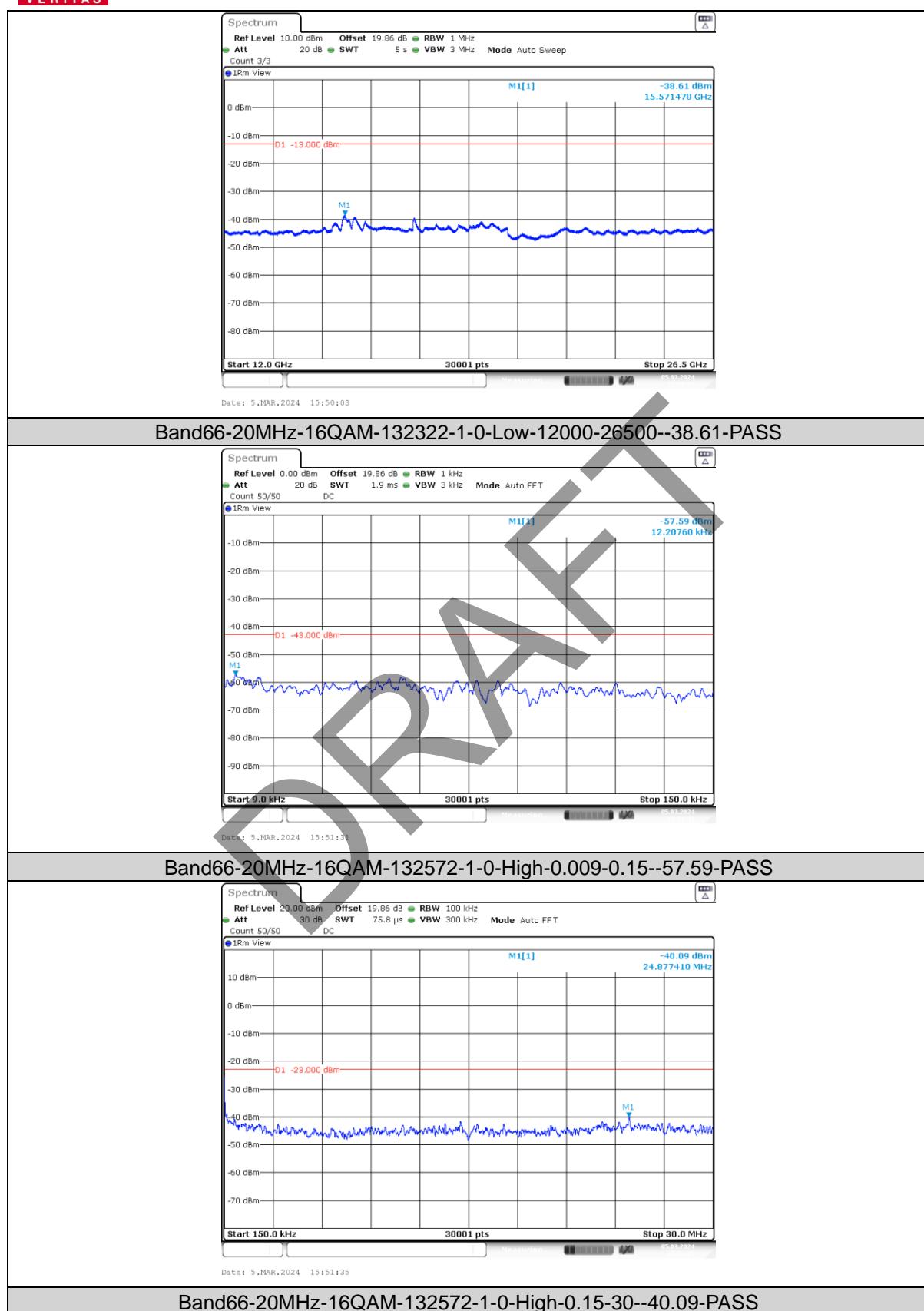
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)

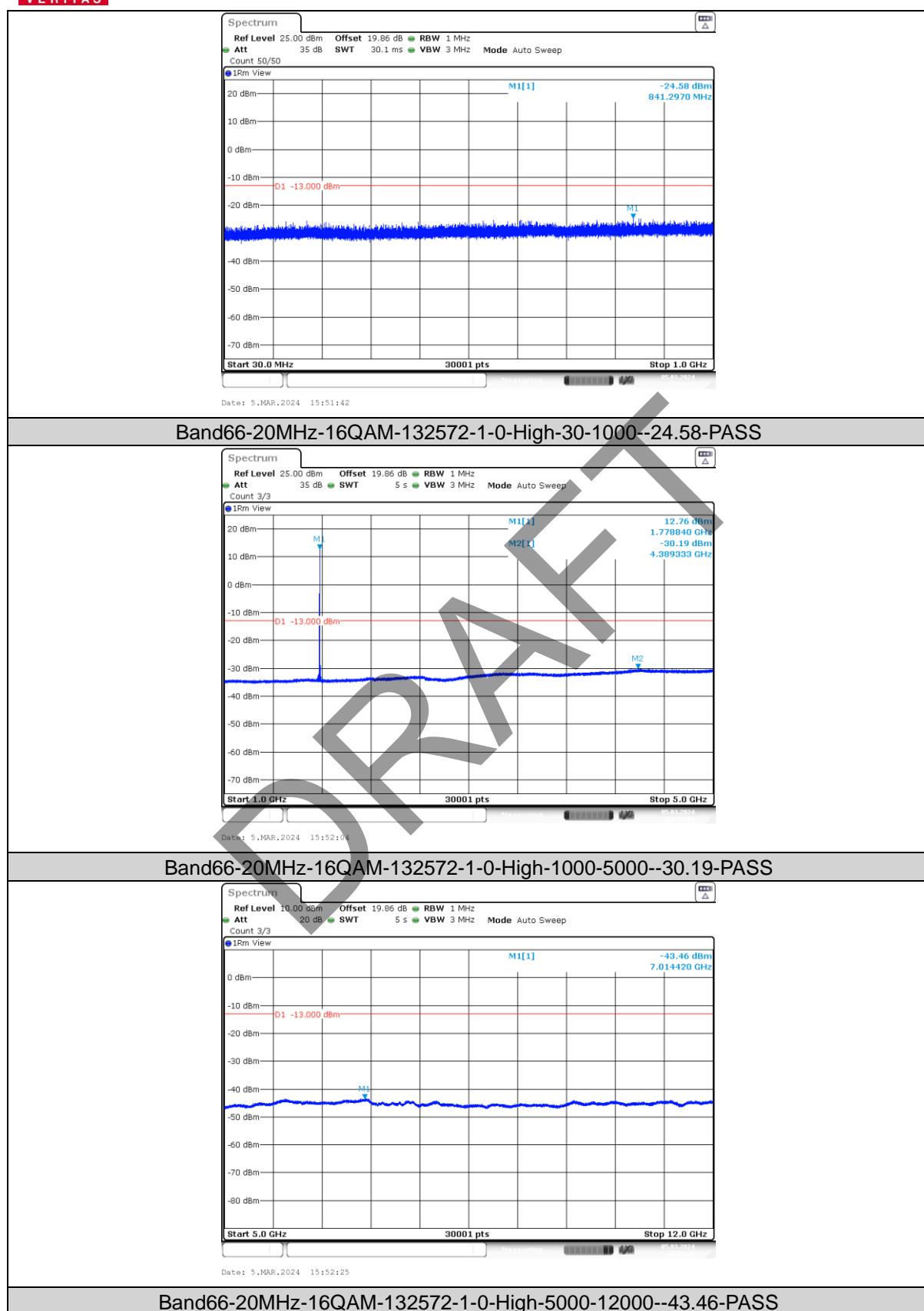


## Test Report No.: W7L-P23120015RI04





## Test Report No.: W7L-P23120015RI04



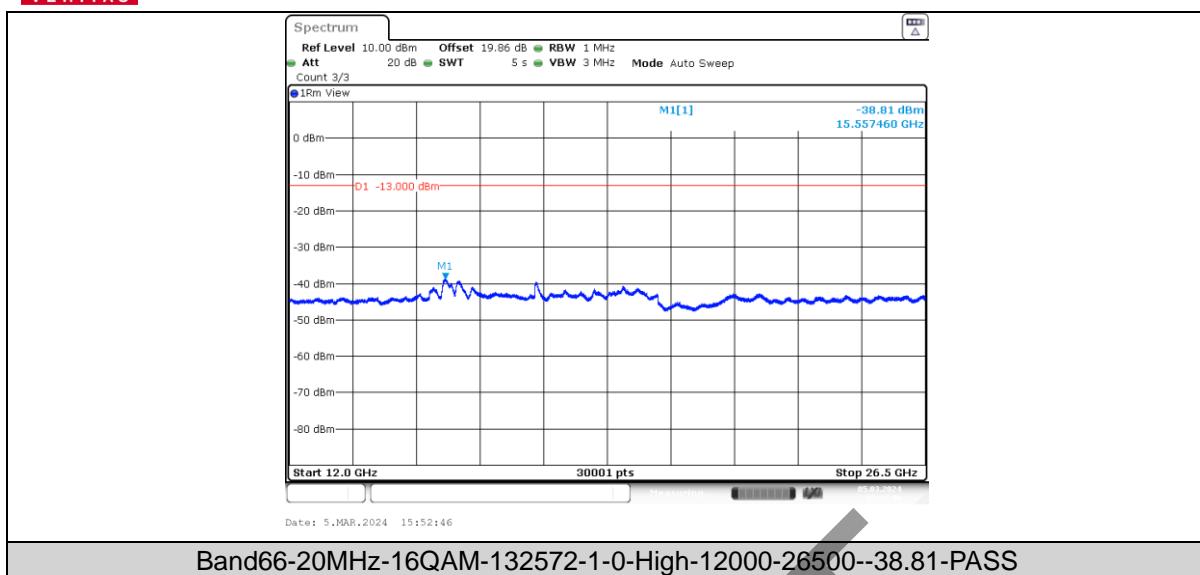
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,  
Zhaoshang Street, Nanshan District Shenzhen,  
Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice\\_sw@bureauveritas.com](mailto:customerservice_sw@bureauveritas.com)



Test Report No.: W7L-P23120015RI04



DRAFT



Test Report No.: W7L-P23120015RI04

## FREQUENCY STABILITY FOR M1

### Band 4 Test Result

Band	Bandwidth	Modulation	Channel	Voltage		NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
				RB Size	RB Start						
Band4	1.4MHz	19957	QPSK	6	0	Low	VL	NT	-15.98	-0.009341	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	VH	NT	-17.98	-0.01051	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	VN	NT	-33.4	-0.019524	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	VL	NT	-40.35	-0.02329	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	VH	NT	10.36	0.00598	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	VN	NT	-37.11	-0.02142	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	VH	NT	-9.88	-0.005632	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	VN	NT	-9.37	-0.005341	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	VL	NT	4.69	0.002673	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	VH	NT	-39.74	-0.02323	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	VL	NT	-17.07	-0.009978	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	VN	NT	-39.44	-0.023055	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	VL	NT	11.33	0.00654	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	VH	NT	10.54	0.006084	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	VN	NT	8.61	0.00497	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	VH	NT	-4.39	-0.002502	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	VN	NT	-5.16	-0.002941	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	VL	NT	-6.29	-0.003585	PASS
Band4	3MHz	19965	QPSK	6	0	Low	VN	NT	9.91	0.00579	PASS
Band4	3MHz	19965	QPSK	6	0	Low	VL	NT	8.94	0.005223	PASS
Band4	3MHz	19965	QPSK	6	0	Low	VH	NT	8.51	0.004972	PASS
Band4	3MHz	20175	QPSK	6	0	Low	VN	NT	-18.14	-0.01047	PASS
Band4	3MHz	20175	QPSK	6	0	Low	VL	NT	-12.39	-0.007152	PASS
Band4	3MHz	20175	QPSK	6	0	Low	VH	NT	-16.87	-0.009737	PASS
Band4	3MHz	20385	QPSK	6	0	High	VN	NT	5.75	0.003279	PASS
Band4	3MHz	20385	QPSK	6	0	High	VH	NT	8.65	0.004933	PASS
Band4	3MHz	20385	QPSK	6	0	High	VL	NT	8.17	0.004659	PASS
Band4	3MHz	19965	16QAM	6	0	Low	VN	NT	-12.99	-0.00759	PASS
Band4	3MHz	19965	16QAM	6	0	Low	VL	NT	-13.82	-0.008075	PASS
Band4	3MHz	19965	16QAM	6	0	Low	VH	NT	-14.35	-0.008384	PASS



## Test Report No.: W7L-P23120015RI04

Band4	3MHz	20175	16QAM	6	0	Low	VN	NT	10.24	0.005911	PASS
Band4	3MHz	20175	16QAM	6	0	Low	VL	NT	11	0.006349	PASS
Band4	3MHz	20175	16QAM	6	0	Low	VH	NT	10.69	0.00617	PASS
Band4	3MHz	20385	16QAM	6	0	High	VN	NT	7.32	0.004175	PASS
Band4	3MHz	20385	16QAM	6	0	High	VL	NT	8.27	0.004716	PASS
Band4	3MHz	20385	16QAM	6	0	High	VH	NT	8.4	0.00479	PASS
Band4	5MHz	19975	QPSK	6	0	Low	VN	NT	-8.37	-0.004888	PASS
Band4	5MHz	19975	QPSK	6	0	Low	VL	NT	-8.31	-0.004853	PASS
Band4	5MHz	19975	QPSK	6	0	Low	VH	NT	-7.8	-0.004555	PASS
Band4	5MHz	20175	QPSK	6	0	Low	VN	NT	9.46	0.00546	PASS
Band4	5MHz	20175	QPSK	6	0	Low	VH	NT	12.36	0.007134	PASS
Band4	5MHz	20175	QPSK	6	0	Low	VL	NT	11.73	0.006771	PASS
Band4	5MHz	20375	QPSK	6	0	High	VN	NT	-5.74	-0.003275	PASS
Band4	5MHz	20375	QPSK	6	0	High	VL	NT	-4.45	-0.002539	PASS
Band4	5MHz	20375	QPSK	6	0	High	VH	NT	-4.62	-0.002636	PASS
Band4	5MHz	19975	16QAM	6	0	Low	VL	NT	-5.32	-0.003107	PASS
Band4	5MHz	19975	16QAM	6	0	Low	VN	NT	-8.48	-0.004952	PASS
Band4	5MHz	19975	16QAM	6	0	Low	VH	NT	-8.91	-0.005203	PASS
Band4	5MHz	20175	16QAM	6	0	Low	VN	NT	11.72	0.006765	PASS
Band4	5MHz	20175	16QAM	6	0	Low	VL	NT	10.36	0.00598	PASS
Band4	5MHz	20175	16QAM	6	0	Low	VH	NT	11.26	0.006499	PASS
Band4	5MHz	20375	16QAM	6	0	High	VL	NT	-7.3	-0.004165	PASS
Band4	5MHz	20375	16QAM	6	0	High	VN	NT	4.73	0.002699	PASS
Band4	5MHz	20375	16QAM	6	0	High	VH	NT	3.59	0.002049	PASS
Band4	10MHz	20000	QPSK	6	0	Low	VL	NT	8.44	0.004921	PASS
Band4	10MHz	20000	QPSK	6	0	Low	VH	NT	10.96	0.006391	PASS
Band4	10MHz	20000	QPSK	6	0	Low	VN	NT	8.33	0.004857	PASS
Band4	10MHz	20175	QPSK	6	0	Low	VL	NT	12.96	0.007481	PASS
Band4	10MHz	20175	QPSK	6	0	Low	VH	NT	14.81	0.008548	PASS
Band4	10MHz	20175	QPSK	6	0	Low	VN	NT	15.61	0.00901	PASS
Band4	10MHz	20350	QPSK	6	0	High	VH	NT	5.72	0.003269	PASS
Band4	10MHz	20350	QPSK	6	0	High	VN	NT	5.19	0.002966	PASS
Band4	10MHz	20350	QPSK	6	0	High	VL	NT	-6.29	-0.003594	PASS
Band4	10MHz	20000	16QAM	6	0	Low	VH	NT	9.84	0.005738	PASS
Band4	10MHz	20000	16QAM	6	0	Low	VL	NT	7.78	0.004536	PASS
Band4	10MHz	20000	16QAM	6	0	Low	VN	NT	11.17	0.006513	PASS
Band4	10MHz	20175	16QAM	6	0	Low	VL	NT	16.39	0.00946	PASS
Band4	10MHz	20175	16QAM	6	0	Low	VH	NT	15.84	0.009143	PASS
Band4	10MHz	20175	16QAM	6	0	Low	VN	NT	14.86	0.008577	PASS



## Test Report No.: W7L-P23120015RI04

Band4	10MHz	20350	16QAM	6	0	High	VH	NT	-4.43	-0.002531	PASS
Band4	10MHz	20350	16QAM	6	0	High	VN	NT	-5.32	-0.00304	PASS
Band4	10MHz	20350	16QAM	6	0	High	VL	NT	-4.79	-0.002737	PASS
Band4	15MHz	20025	QPSK	6	0	Low	VN	NT	11.09	0.006457	PASS
Band4	15MHz	20025	QPSK	6	0	Low	VL	NT	10.77	0.006271	PASS
Band4	15MHz	20025	QPSK	6	0	Low	VH	NT	10.2	0.005939	PASS
Band4	15MHz	20175	QPSK	6	0	Low	VN	NT	7.71	0.00445	PASS
Band4	15MHz	20175	QPSK	6	0	Low	VL	NT	8.37	0.004831	PASS
Band4	15MHz	20175	QPSK	6	0	Low	VH	NT	10.27	0.005928	PASS
Band4	15MHz	20325	QPSK	6	0	High	VN	NT	9.41	0.005385	PASS
Band4	15MHz	20325	QPSK	6	0	High	VH	NT	9.33	0.005339	PASS
Band4	15MHz	20325	QPSK	6	0	High	VL	NT	9.74	0.005574	PASS
Band4	15MHz	20025	16QAM	6	0	Low	VN	NT	10.07	0.005863	PASS
Band4	15MHz	20025	16QAM	6	0	Low	VL	NT	11.52	0.006707	PASS
Band4	15MHz	20025	16QAM	6	0	Low	VH	NT	11.16	0.006498	PASS
Band4	15MHz	20175	16QAM	6	0	Low	VN	NT	9.43	0.005443	PASS
Band4	15MHz	20175	16QAM	6	0	Low	VL	NT	8.13	0.004693	PASS
Band4	15MHz	20175	16QAM	6	0	Low	VH	NT	10.69	0.00617	PASS
Band4	15MHz	20325	16QAM	6	0	High	VN	NT	8.94	0.005116	PASS
Band4	15MHz	20325	16QAM	6	0	High	VL	NT	8.94	0.005116	PASS
Band4	15MHz	20325	16QAM	6	0	High	VH	NT	8.6	0.004921	PASS
Band4	20MHz	20050	QPSK	6	0	Low	VN	NT	-11.54	-0.006709	PASS
Band4	20MHz	20050	QPSK	6	0	Low	VL	NT	-10.37	-0.006029	PASS
Band4	20MHz	20050	QPSK	6	0	Low	VH	NT	-10.14	-0.005895	PASS
Band4	20MHz	20175	QPSK	6	0	Low	VN	NT	8.64	0.004987	PASS
Band4	20MHz	20175	QPSK	6	0	Low	VH	NT	9.34	0.005391	PASS
Band4	20MHz	20175	QPSK	6	0	Low	VL	NT	8.41	0.004854	PASS
Band4	20MHz	20300	QPSK	6	0	High	VN	NT	-5.72	-0.003278	PASS
Band4	20MHz	20300	QPSK	6	0	High	VL	NT	-4.88	-0.002797	PASS
Band4	20MHz	20300	QPSK	6	0	High	VH	NT	-6.84	-0.00392	PASS
Band4	20MHz	20050	16QAM	6	0	Low	VL	NT	-10.79	-0.006273	PASS
Band4	20MHz	20050	16QAM	6	0	Low	VN	NT	-13.35	-0.007762	PASS
Band4	20MHz	20050	16QAM	6	0	Low	VH	NT	-14.15	-0.008227	PASS
Band4	20MHz	20175	16QAM	6	0	Low	VN	NT	10.14	0.005853	PASS
Band4	20MHz	20175	16QAM	6	0	Low	VL	NT	10.67	0.006159	PASS
Band4	20MHz	20175	16QAM	6	0	Low	VH	NT	8.47	0.004889	PASS
Band4	20MHz	20300	16QAM	6	0	High	VH	NT	5.84	0.003347	PASS
Band4	20MHz	20300	16QAM	6	0	High	VN	NT	5.46	0.003129	PASS
Band4	20MHz	20300	16QAM	6	0	High	VL	NT	-3.13	-0.001794	PASS



Test Report No.: W7L-P23120015RI04

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	70	-36.94	-0.021593	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	60	-35.93	-0.021003	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	50	-20.14	-0.011773	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	40	-17.28	-0.010101	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	30	-17.47	-0.010212	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	10	-37.54	-0.021944	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	0	-17.65	-0.010317	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	-10	-36.81	-0.021518	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	-20	-37.62	-0.021991	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	-30	-36.06	-0.021079	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	NV	20	-40.2	-0.023499	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	-30	10.81	0.00624	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	-20	9.91	0.00572	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	-10	9.86	0.005691	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	0	8.68	0.00501	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	10	10.23	0.005905	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	20	9.33	0.005385	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	30	9.7	0.005599	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	60	9.58	0.00553	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	50	8.71	0.005027	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	40	9.64	0.005564	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	NV	70	9.91	0.00572	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	-30	-6.38	-0.003637	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	-20	-11.3	-0.006441	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	-10	-4.92	-0.002805	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	0	-9.76	-0.005563	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	10	4.71	0.002685	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	20	-7.4	-0.004218	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	30	-9.54	-0.005438	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	40	-5.98	-0.003409	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	50	-7.52	-0.004287	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	60	-5.78	-0.003295	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	NV	70	-11.3	-0.006441	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	1.4MHz	19957	16QAM	6	0	Low	NV	20	-19.91	-0.011639	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	70	-41.36	-0.024177	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	60	-38.51	-0.022511	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	50	-41.6	-0.024318	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	-30	-39.12	-0.022868	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	30	-17.22	-0.010066	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	10	-39.67	-0.023189	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	0	-33.89	-0.019811	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	-10	-20.37	-0.011907	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	-20	-21.16	-0.012369	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	NV	40	-19.61	-0.011463	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	50	11.43	0.006597	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	-20	8.28	0.004779	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	70	7.12	0.00411	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	-30	9.34	0.005391	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	-10	7.8	0.004502	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	0	10.43	0.00602	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	10	7.88	0.004548	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	20	9.16	0.005287	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	30	10.06	0.005807	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	40	11.83	0.006828	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	NV	60	10.79	0.006228	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	30	4.31	0.002457	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	70	-11.09	-0.006322	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	60	-10.74	-0.006122	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	50	-5.54	-0.003158	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	40	-3.89	-0.002217	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	10	-10.54	-0.006008	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	0	5.85	0.003335	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	-10	-10.59	-0.006037	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	-20	-5.71	-0.003255	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	-30	-5.75	-0.003278	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	NV	20	-9.97	-0.005683	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	60	9.27	0.005416	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	70	7.42	0.004335	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	50	8.15	0.004762	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	40	13.22	0.007724	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	30	11.62	0.006789	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	10	9.16	0.005352	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	3MHz	19965	QPSK	6	0	Low	NV	0	10.03	0.00586	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	-10	-10.5	-0.006135	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	-20	10.29	0.006012	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	-30	12.59	0.007356	PASS
Band4	3MHz	19965	QPSK	6	0	Low	NV	20	8.54	0.00499	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	60	7.52	0.004341	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	-30	9.28	0.005356	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	-20	-18.32	-0.010574	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	-10	11.47	0.00662	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	0	10.41	0.006009	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	10	9.83	0.005674	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	20	-21.99	-0.012693	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	30	-20.53	-0.01185	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	50	-20.17	-0.011642	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	70	11.17	0.006447	PASS
Band4	3MHz	20175	QPSK	6	0	Low	NV	40	-20.28	-0.011706	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	0	9.18	0.005235	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	70	11.63	0.006632	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	60	9.21	0.005252	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	50	7.7	0.004391	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	40	8.17	0.004659	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	30	7.18	0.004095	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	10	10.26	0.005851	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	-10	9.04	0.005155	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	-20	8.96	0.00511	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	-30	8.91	0.005081	PASS
Band4	3MHz	20385	QPSK	6	0	High	NV	20	10.1	0.00576	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	50	-14.39	-0.008408	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	60	-16.15	-0.009436	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	40	11.72	0.006848	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	30	-17.12	-0.010003	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	20	-14.43	-0.008431	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	10	11.27	0.006585	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	0	6.91	0.004037	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	-10	-15.19	-0.008875	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	-20	-15.71	-0.009179	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	-30	-13.72	-0.008016	PASS
Band4	3MHz	19965	16QAM	6	0	Low	NV	70	-11.14	-0.006509	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	3MHz	20175	16QAM	6	0	Low	NV	0	8.81	0.005085	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	-30	10.3	0.005945	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	-10	10.27	0.005928	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	10	10	0.005772	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	20	8.33	0.004808	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	30	-16.95	-0.009784	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	40	10.84	0.006257	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	50	-21.47	-0.012392	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	60	-19.17	-0.011065	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	70	9.84	0.00568	PASS
Band4	3MHz	20175	16QAM	6	0	Low	NV	-20	-20.69	-0.011942	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	-20	8.53	0.004865	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	30	10.74	0.006125	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	70	8.7	0.004962	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	60	10.66	0.006079	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	50	9.97	0.005686	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	40	9.37	0.005344	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	20	8.84	0.005041	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	10	7.67	0.004374	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	-10	8.78	0.005007	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	-30	6.72	0.003832	PASS
Band4	3MHz	20385	16QAM	6	0	High	NV	0	8.68	0.00495	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	30	-8.15	-0.004759	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	70	-8.55	-0.004993	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	60	-8.67	-0.005063	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	50	-7.28	-0.004251	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	40	-9.48	-0.005536	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	10	-9.07	-0.005296	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	0	-7.47	-0.004362	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	-10	-7.81	-0.004561	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	-20	-7.95	-0.004642	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	20	-9.07	-0.005296	PASS
Band4	5MHz	19975	QPSK	6	0	Low	NV	-30	-8.98	-0.005244	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	60	9.58	0.00553	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	-30	10.84	0.006257	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	-20	11	0.006349	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	-10	10.11	0.005835	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	0	9.97	0.005755	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	10	11.16	0.006442	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	20	10.8	0.006234	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	30	12.77	0.007371	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	50	7.8	0.004502	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	5MHz	20175	QPSK	6	0	Low	NV	70	11.82	0.006823	PASS
Band4	5MHz	20175	QPSK	6	0	Low	NV	40	10.74	0.006199	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	70	-5.02	-0.002864	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	60	-4.91	-0.002802	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	50	-6.94	-0.00396	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	40	-6.44	-0.003675	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	30	-6.32	-0.003606	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	20	-5.99	-0.003418	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	10	-6.27	-0.003578	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	0	-6.47	-0.003692	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	-10	-6.58	-0.003755	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	-20	-5.99	-0.003418	PASS
Band4	5MHz	20375	QPSK	6	0	High	NV	-30	-7.28	-0.004154	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	0	-8.45	-0.004934	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	70	-8.91	-0.005203	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	60	-8.91	-0.005203	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	50	-8.58	-0.00501	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	40	-7.87	-0.004596	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	30	-9.27	-0.005413	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	10	-9.06	-0.005291	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	-10	-8.43	-0.004923	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	-20	-8.3	-0.004847	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	-30	-6.62	-0.003866	PASS
Band4	5MHz	19975	16QAM	6	0	Low	NV	20	-5.75	-0.003358	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	-20	10.3	0.005945	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	-30	12.62	0.007284	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	-10	10.13	0.005847	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	0	11.46	0.006615	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	10	11.36	0.006557	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	30	12.46	0.007192	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	40	10.8	0.006234	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	50	8.57	0.004947	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	60	11.5	0.006638	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	70	11.97	0.006909	PASS
Band4	5MHz	20175	16QAM	6	0	Low	NV	20	11.7	0.006753	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	-20	-4.12	-0.002351	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	70	5.52	0.00315	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	60	-6.62	-0.003777	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	50	-4.11	-0.002345	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	40	-6.17	-0.003521	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	30	-5.91	-0.003372	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	20	-6.35	-0.003623	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	5MHz	20375	16QAM	6	0	High	NV	10	-5.09	-0.002904	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	-10	-4.69	-0.002676	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	-30	3.4	0.00194	PASS
Band4	5MHz	20375	16QAM	6	0	High	NV	0	-6.05	-0.003452	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	70	12.35	0.007201	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	60	7.24	0.004222	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	50	10.97	0.006397	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	40	11.32	0.006601	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	30	8.73	0.00509	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	10	8.98	0.005236	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	0	9.7	0.005656	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	-10	9.36	0.005458	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	-20	9.03	0.005265	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	-30	9.91	0.005778	PASS
Band4	10MHz	20000	QPSK	6	0	Low	NV	20	8.9	0.00519	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	-30	14.05	0.00811	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	-20	15.74	0.009085	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	-10	14.81	0.008548	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	0	16.79	0.009691	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	10	14.81	0.008548	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	20	15.88	0.009166	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	30	16.21	0.009356	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	60	16.74	0.009662	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	50	15.96	0.009212	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	40	17.02	0.009824	PASS
Band4	10MHz	20175	QPSK	6	0	Low	NV	70	14.62	0.008439	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	-30	4.89	0.002794	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	-20	6.54	0.003737	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	-10	-4.28	-0.002446	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	0	-5.19	-0.002966	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	10	-5.11	-0.00292	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	20	-6.34	-0.003623	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	30	-5.14	-0.002937	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	40	4.78	0.002731	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	50	3.83	0.002189	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	60	5.15	0.002943	PASS
Band4	10MHz	20350	QPSK	6	0	High	NV	70	5.59	0.003194	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	20	9.24	0.005388	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	70	9.61	0.005603	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	60	10.96	0.006391	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	50	10.14	0.005913	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	-30	11.76	0.006857	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	10MHz	20000	16QAM	6	0	Low	NV	30	11.1	0.006472	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	10	10.9	0.006356	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	0	10.54	0.006146	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	-10	9.63	0.005615	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	-20	11.89	0.006933	PASS
Band4	10MHz	20000	16QAM	6	0	Low	NV	40	11.73	0.00684	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	50	15.41	0.008895	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	-20	11.17	0.006447	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	70	14.76	0.008519	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	-30	12.89	0.00744	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	-10	14.81	0.008548	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	0	11.46	0.006615	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	10	15.41	0.008895	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	20	16.85	0.009726	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	30	15.84	0.009143	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	40	15.95	0.009206	PASS
Band4	10MHz	20175	16QAM	6	0	Low	NV	60	16.45	0.009495	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	30	-6.61	-0.003777	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	70	-5.44	-0.003109	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	60	5.69	0.003251	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	50	-7.18	-0.004103	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	40	-4.42	-0.002526	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	10	-3.93	-0.002246	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	0	4.33	0.002474	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	-10	-6.05	-0.003457	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	-20	-6.27	-0.003583	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	-30	-3.62	-0.002069	PASS
Band4	10MHz	20350	16QAM	6	0	High	NV	20	-5.18	-0.00296	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	60	10.49	0.006108	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	70	11.74	0.006836	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	50	9.2	0.005357	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	40	10.36	0.006032	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	30	8.71	0.005071	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	10	9.54	0.005555	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	0	9.21	0.005362	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	-10	9.38	0.005461	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	-20	8.81	0.00513	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	-30	8.73	0.005083	PASS
Band4	15MHz	20025	QPSK	6	0	Low	NV	20	9.57	0.005572	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	50	10.03	0.005789	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	-20	10.03	0.005789	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	-10	9.48	0.005472	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	15MHz	20175	QPSK	6	0	Low	NV	0	8.44	0.004872	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	10	9.48	0.005472	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	20	8.43	0.004866	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	40	10.16	0.005864	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	60	9.61	0.005547	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	70	9.14	0.005276	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	-30	8.91	0.005143	PASS
Band4	15MHz	20175	QPSK	6	0	Low	NV	30	9.03	0.005212	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	0	6.22	0.003559	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	70	7.11	0.004069	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	60	8.2	0.004692	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	50	9.43	0.005396	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	40	7.42	0.004246	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	30	11.2	0.006409	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	10	9.74	0.005574	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	-10	7.48	0.00428	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	-20	8.77	0.005019	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	-30	8.47	0.004847	PASS
Band4	15MHz	20325	QPSK	6	0	High	NV	20	8.58	0.00491	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	50	8.84	0.005147	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	60	9.68	0.005636	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	40	9.61	0.005595	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	30	8.31	0.004838	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	20	8.45	0.00492	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	10	6.27	0.003651	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	0	9.41	0.005479	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	-10	7.44	0.004332	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	-20	8.24	0.004798	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	-30	9.68	0.005636	PASS
Band4	15MHz	20025	16QAM	6	0	Low	NV	70	8.57	0.00499	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	0	9.54	0.005506	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	-30	9.83	0.005674	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	-10	8.71	0.005027	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	10	9.28	0.005356	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	20	9.47	0.005466	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	30	8.65	0.004993	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	40	10.29	0.005939	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	50	8.94	0.00516	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	60	8.3	0.004791	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	70	9.31	0.005374	PASS
Band4	15MHz	20175	16QAM	6	0	Low	NV	-20	9.13	0.00527	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	-20	8.7	0.004979	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	15MHz	20325	16QAM	6	0	High	NV	30	8.7	0.004979	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	70	10.17	0.00582	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	60	7.91	0.004526	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	50	10.04	0.005745	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	40	8.5	0.004864	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	20	8.68	0.004967	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	10	9.16	0.005242	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	-10	8.67	0.004961	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	-30	8.71	0.004984	PASS
Band4	15MHz	20325	16QAM	6	0	High	NV	0	9.67	0.005534	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	30	-11.79	-0.006855	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	70	-8.93	-0.005192	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	60	-12.7	-0.007384	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	50	-10.54	-0.006128	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	40	-10.43	-0.006064	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	10	-11.46	-0.006663	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	0	-12.5	-0.007267	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	-10	-10.9	-0.006337	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	-20	-10.67	-0.006203	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	20	-10.81	-0.006285	PASS
Band4	20MHz	20050	QPSK	6	0	Low	NV	-30	-11.1	-0.006453	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	60	9.4	0.005426	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	-30	8.64	0.004987	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	-20	4.72	0.002724	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	-10	9.56	0.005518	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	0	8.61	0.00497	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	10	8.94	0.00516	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	20	8.01	0.004623	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	30	8.97	0.005177	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	50	8.74	0.005045	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	70	8.48	0.004895	PASS
Band4	20MHz	20175	QPSK	6	0	Low	NV	40	9.97	0.005755	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	70	-5.01	-0.002871	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	60	-6.08	-0.003484	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	50	-5.12	-0.002934	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	40	4.41	0.002527	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	30	4.06	0.002327	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	20	-4.39	-0.002516	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	10	4.33	0.002481	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	0	-6.39	-0.003662	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	-10	-5.08	-0.002911	PASS
Band4	20MHz	20300	QPSK	6	0	High	NV	-20	-5.56	-0.003186	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band4	20MHz	20300	QPSK	6	0	High	NV	-30	-5.58	-0.003198	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	0	-12.96	-0.007535	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	70	-11.72	-0.006814	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	60	-12.47	-0.00725	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	50	-11.73	-0.00682	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	40	-10.81	-0.006285	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	30	-7.95	-0.004622	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	10	-11.82	-0.006872	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	-10	-13.25	-0.007703	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	-20	-11.01	-0.006401	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	-30	-11.72	-0.006814	PASS
Band4	20MHz	20050	16QAM	6	0	Low	NV	20	-12.32	-0.007163	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	-20	6.67	0.00385	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	-30	8.04	0.004641	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	-10	8.7	0.005022	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	0	10.47	0.006043	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	10	9.07	0.005235	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	30	10.81	0.00624	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	40	7.61	0.004392	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	50	10	0.005772	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	60	11.19	0.006459	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	70	11.54	0.006661	PASS
Band4	20MHz	20175	16QAM	6	0	Low	NV	20	6.42	0.003706	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	-20	-7.58	-0.004344	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	70	5.44	0.003117	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	60	-5.51	-0.003158	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	50	-5.16	-0.002957	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	40	5.18	0.002968	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	30	-4.19	-0.002401	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	20	5.65	0.003238	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	10	6.04	0.003461	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	-10	5.87	0.003364	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	-30	-6.9	-0.003954	PASS
Band4	20MHz	20300	16QAM	6	0	High	NV	0	6.57	0.003765	PASS



Test Report No.: W7L-P23120015RI04

## Band 66 Test Result

Band	Bandwidth	Modulation	Channel	Voltage								Verdict
				RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)		
Band66	1.4MHz	131979	QPSK	6	0	Low	VL	NT	-25.56	-0.014941	PASS	
Band66	1.4MHz	131979	QPSK	6	0	Low	VH	NT	-22.19	-0.012971	PASS	
Band66	1.4MHz	131979	QPSK	6	0	Low	VN	NT	-21.53	-0.012585	PASS	
Band66	1.4MHz	132322	QPSK	6	0	Low	VL	NT	-18.6	-0.010659	PASS	
Band66	1.4MHz	132322	QPSK	6	0	Low	VH	NT	-24.33	-0.013943	PASS	
Band66	1.4MHz	132322	QPSK	6	0	Low	VN	NT	-21.62	-0.01239	PASS	
Band66	1.4MHz	132665	QPSK	6	0	High	VH	NT	7.85	0.004412	PASS	
Band66	1.4MHz	132665	QPSK	6	0	High	VN	NT	9.44	0.005305	PASS	
Band66	1.4MHz	132665	QPSK	6	0	High	VL	NT	10.49	0.005896	PASS	
Band66	1.4MHz	131979	16QAM	6	0	Low	VH	NT	-65.4	-0.03823	PASS	
Band66	1.4MHz	131979	16QAM	6	0	Low	VL	NT	-24.28	-0.014193	PASS	
Band66	1.4MHz	131979	16QAM	6	0	Low	VN	NT	-25.45	-0.014877	PASS	
Band66	1.4MHz	132322	16QAM	6	0	Low	VL	NT	-9.84	-0.005639	PASS	
Band66	1.4MHz	132322	16QAM	6	0	Low	VH	NT	-10.04	-0.005754	PASS	
Band66	1.4MHz	132322	16QAM	6	0	Low	VN	NT	-9.53	-0.005461	PASS	
Band66	1.4MHz	132665	16QAM	6	0	High	VH	NT	8.28	0.004654	PASS	
Band66	1.4MHz	132665	16QAM	6	0	High	VN	NT	10.04	0.005643	PASS	
Band66	1.4MHz	132665	16QAM	6	0	High	VL	NT	9.61	0.005401	PASS	
Band66	3MHz	131987	QPSK	6	0	Low	VN	NT	10.7	0.006252	PASS	
Band66	3MHz	131987	QPSK	6	0	Low	VL	NT	6.58	0.003845	PASS	
Band66	3MHz	131987	QPSK	6	0	Low	VH	NT	11.04	0.00645	PASS	
Band66	3MHz	132322	QPSK	6	0	Low	VN	NT	-6.49	-0.003719	PASS	
Band66	3MHz	132322	QPSK	6	0	Low	VL	NT	-14.95	-0.008567	PASS	
Band66	3MHz	132322	QPSK	6	0	Low	VH	NT	-5.21	-0.002986	PASS	
Band66	3MHz	132657	QPSK	6	0	High	VN	NT	-9.27	-0.005212	PASS	
Band66	3MHz	132657	QPSK	6	0	High	VH	NT	-8.96	-0.005038	PASS	
Band66	3MHz	132657	QPSK	6	0	High	VL	NT	-12.32	-0.006927	PASS	
Band66	3MHz	131987	16QAM	6	0	Low	VN	NT	9.9	0.005784	PASS	
Band66	3MHz	131987	16QAM	6	0	Low	VL	NT	8.27	0.004832	PASS	
Band66	3MHz	131987	16QAM	6	0	Low	VH	NT	7.38	0.004312	PASS	
Band66	3MHz	132322	16QAM	6	0	Low	VN	NT	-15.69	-0.008991	PASS	
Band66	3MHz	132322	16QAM	6	0	Low	VL	NT	-13.53	-0.007754	PASS	
Band66	3MHz	132322	16QAM	6	0	Low	VH	NT	-20.14	-0.011542	PASS	
Band66	3MHz	132657	16QAM	6	0	High	VN	NT	-9.27	-0.005212	PASS	
Band66	3MHz	132657	16QAM	6	0	High	VL	NT	-9.68	-0.005443	PASS	
Band66	3MHz	132657	16QAM	6	0	High	VH	NT	-9.2	-0.005173	PASS	
Band66	5MHz	131997	QPSK	6	0	Low	VN	NT	-9.08	-0.005302	PASS	



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	5MHz	131997	QPSK	6	0	Low	VL	NT	-8.48	-0.004952	PASS
Band66	5MHz	131997	QPSK	6	0	Low	VH	NT	-8.87	-0.00518	PASS
Band66	5MHz	132322	QPSK	6	0	Low	VN	NT	-5.05	-0.002894	PASS
Band66	5MHz	132322	QPSK	6	0	Low	VH	NT	5.66	0.003244	PASS
Band66	5MHz	132322	QPSK	6	0	Low	VL	NT	5.62	0.003221	PASS
Band66	5MHz	132647	QPSK	6	0	High	VN	NT	8.73	0.004911	PASS
Band66	5MHz	132647	QPSK	6	0	High	VL	NT	8.48	0.004771	PASS
Band66	5MHz	132647	QPSK	6	0	High	VH	NT	9.54	0.005367	PASS
Band66	5MHz	131997	16QAM	6	0	Low	VL	NT	-11.07	-0.006464	PASS
Band66	5MHz	131997	16QAM	6	0	Low	VN	NT	-8.83	-0.005156	PASS
Band66	5MHz	131997	16QAM	6	0	Low	VH	NT	-7.1	-0.004146	PASS
Band66	5MHz	132322	16QAM	6	0	Low	VN	NT	3.66	0.002097	PASS
Band66	5MHz	132322	16QAM	6	0	Low	VL	NT	-6.15	-0.003524	PASS
Band66	5MHz	132322	16QAM	6	0	Low	VH	NT	8.15	0.00467	PASS
Band66	5MHz	132647	16QAM	6	0	High	VL	NT	6.39	0.003595	PASS
Band66	5MHz	132647	16QAM	6	0	High	VN	NT	6.32	0.003556	PASS
Band66	5MHz	132647	16QAM	6	0	High	VH	NT	9.94	0.005592	PASS
Band66	10MHz	132022	QPSK	6	0	Low	VL	NT	12.86	0.007499	PASS
Band66	10MHz	132022	QPSK	6	0	Low	VH	NT	11.46	0.006682	PASS
Band66	10MHz	132022	QPSK	6	0	Low	VN	NT	11.94	0.006962	PASS
Band66	10MHz	132322	QPSK	6	0	Low	VL	NT	11.72	0.006716	PASS
Band66	10MHz	132322	QPSK	6	0	Low	VH	NT	10.4	0.00596	PASS
Band66	10MHz	132322	QPSK	6	0	Low	VN	NT	10.67	0.006115	PASS
Band66	10MHz	132622	QPSK	6	0	High	VH	NT	9.96	0.005611	PASS
Band66	10MHz	132622	QPSK	6	0	High	VN	NT	11.73	0.006608	PASS
Band66	10MHz	132622	QPSK	6	0	High	VL	NT	12.37	0.006969	PASS
Band66	10MHz	132022	16QAM	6	0	Low	VH	NT	11.43	0.006665	PASS
Band66	10MHz	132022	16QAM	6	0	Low	VL	NT	10.97	0.006397	PASS
Band66	10MHz	132022	16QAM	6	0	Low	VN	NT	10.7	0.006239	PASS
Band66	10MHz	132322	16QAM	6	0	Low	VL	NT	11.7	0.006705	PASS
Band66	10MHz	132322	16QAM	6	0	Low	VH	NT	10.53	0.006034	PASS
Band66	10MHz	132322	16QAM	6	0	Low	VN	NT	10.64	0.006097	PASS
Band66	10MHz	132622	16QAM	6	0	High	VH	NT	8.96	0.005048	PASS
Band66	10MHz	132622	16QAM	6	0	High	VN	NT	8.97	0.005054	PASS
Band66	10MHz	132622	16QAM	6	0	High	VL	NT	9.21	0.005189	PASS
Band66	15MHz	132047	QPSK	6	0	Low	VN	NT	9.9	0.005764	PASS
Band66	15MHz	132047	QPSK	6	0	Low	VL	NT	9.17	0.005339	PASS
Band66	15MHz	132047	QPSK	6	0	Low	VH	NT	10.36	0.006032	PASS
Band66	15MHz	132322	QPSK	6	0	Low	VN	NT	-4.95	-0.002837	PASS
Band66	15MHz	132322	QPSK	6	0	Low	VL	NT	6.35	0.003639	PASS
Band66	15MHz	132322	QPSK	6	0	Low	VH	NT	-4.68	-0.002682	PASS
Band66	15MHz	132597	QPSK	6	0	High	VN	NT	-13.48	-0.007605	PASS



**Test Report No.: W7L-P23120015RI04**

BUREAU  
VERITAS

Band66	15MHz	132597	QPSK	6	0	High	VH	NT	-13.82	-0.007797	PASS
Band66	15MHz	132597	QPSK	6	0	High	VL	NT	-9.84	-0.005551	PASS
Band66	15MHz	132047	16QAM	6	0	Low	VN	NT	12.45	0.007249	PASS
Band66	15MHz	132047	16QAM	6	0	Low	VL	NT	6.95	0.004047	PASS
Band66	15MHz	132047	16QAM	6	0	Low	VH	NT	10.1	0.005881	PASS
Band66	15MHz	132322	16QAM	6	0	Low	VN	NT	-6.17	-0.003536	PASS
Band66	15MHz	132322	16QAM	6	0	Low	VL	NT	8.25	0.004728	PASS
Band66	15MHz	132322	16QAM	6	0	Low	VH	NT	-6.71	-0.003845	PASS
Band66	15MHz	132597	16QAM	6	0	High	VN	NT	-11.49	-0.006482	PASS
Band66	15MHz	132597	16QAM	6	0	High	VL	NT	-9.77	-0.005512	PASS
Band66	15MHz	132597	16QAM	6	0	High	VH	NT	-11.09	-0.006257	PASS
Band66	20MHz	132072	QPSK	6	0	Low	VN	NT	-12.66	-0.00736	PASS
Band66	20MHz	132072	QPSK	6	0	Low	VL	NT	-12.53	-0.007285	PASS
Band66	20MHz	132072	QPSK	6	0	Low	VH	NT	-12.93	-0.007517	PASS
Band66	20MHz	132322	QPSK	6	0	Low	VN	NT	6.87	0.003937	PASS
Band66	20MHz	132322	QPSK	6	0	Low	VH	NT	-7.34	-0.004206	PASS
Band66	20MHz	132322	QPSK	6	0	Low	VL	NT	-5.88	-0.00337	PASS
Band66	20MHz	132572	QPSK	6	0	High	VN	NT	9.78	0.005525	PASS
Band66	20MHz	132572	QPSK	6	0	High	VL	NT	10.93	0.006175	PASS
Band66	20MHz	132572	QPSK	6	0	High	VH	NT	12.67	0.007158	PASS
Band66	20MHz	132072	16QAM	6	0	Low	VL	NT	-12.26	-0.007128	PASS
Band66	20MHz	132072	16QAM	6	0	Low	VN	NT	-12.86	-0.007477	PASS
Band66	20MHz	132072	16QAM	6	0	Low	VH	NT	-12.95	-0.007529	PASS
Band66	20MHz	132322	16QAM	6	0	Low	VN	NT	-7.37	-0.004223	PASS
Band66	20MHz	132322	16QAM	6	0	Low	VL	NT	6.98	0.004	PASS
Band66	20MHz	132322	16QAM	6	0	Low	VH	NT	-6.55	-0.003754	PASS
Band66	20MHz	132572	16QAM	6	0	High	VH	NT	11.83	0.006684	PASS
Band66	20MHz	132572	16QAM	6	0	High	VN	NT	11.5	0.006497	PASS
Band66	20MHz	132572	16QAM	6	0	High	VL	NT	11.69	0.006605	PASS

**Temperature**

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	70	-25.09	-0.014667	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	60	-24.18	-0.014135	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	50	-61.4	-0.035892	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	40	-66.38	-0.038803	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	30	-24.76	-0.014474	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	10	-61.01	-0.035664	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	0	-24.65	-0.014409	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	-10	-63.82	-0.037306	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	1.4MHz	131979	QPSK	6	0	Low	NV	-20	-60.54	-0.035389	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	-30	-24.58	-0.014368	PASS
Band66	1.4MHz	131979	QPSK	6	0	Low	NV	20	-24.08	-0.014076	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	-30	-22.33	-0.012797	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	-20	-9.16	-0.005249	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	-10	-24.52	-0.014052	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	0	-20.73	-0.01188	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	10	-23.66	-0.013559	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	20	-9.76	-0.005593	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	30	-21.67	-0.012418	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	60	-21.99	-0.012602	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	50	-9.6	-0.005501	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	40	-10.83	-0.006206	PASS
Band66	1.4MHz	132322	QPSK	6	0	Low	NV	70	-22.83	-0.013083	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	-30	8.73	0.004906	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	-20	9.21	0.005176	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	-10	9.2	0.005171	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	0	9.7	0.005452	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	10	9.26	0.005204	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	20	8.27	0.004648	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	30	10.11	0.005682	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	40	9.17	0.005154	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	50	9.58	0.005384	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	60	9.33	0.005244	PASS
Band66	1.4MHz	132665	QPSK	6	0	High	NV	70	6.44	0.003619	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	20	-63.94	-0.037377	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	70	-26.54	-0.015514	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	60	-59.49	-0.034775	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	50	-60.8	-0.035541	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	-30	-61.44	-0.035915	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	30	-64.77	-0.037862	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	10	-63.43	-0.037078	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	0	-22.77	-0.01331	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	-10	-30.37	-0.017753	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	-20	-63.59	-0.037172	PASS
Band66	1.4MHz	131979	16QAM	6	0	Low	NV	40	-25.71	-0.015029	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	50	-9.33	-0.005347	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	-20	-7.05	-0.00404	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	70	-24.48	-0.014029	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	-30	-24.79	-0.014206	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	-10	-9.44	-0.00541	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	0	-4.29	-0.002458	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	1.4MHz	132322	16QAM	6	0	Low	NV	10	-5.81	-0.00333	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	20	-7.9	-0.004527	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	30	-25.45	-0.014585	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	40	-9.98	-0.005719	PASS
Band66	1.4MHz	132322	16QAM	6	0	Low	NV	60	-7.58	-0.004344	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	30	10.39	0.005839	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	70	9.24	0.005193	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	60	9.97	0.005603	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	50	9.26	0.005204	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	40	9.83	0.005525	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	10	8.7	0.00489	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	0	7.65	0.004299	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	-10	8.77	0.004929	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	-20	8.18	0.004597	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	-30	5.15	0.002894	PASS
Band66	1.4MHz	132665	16QAM	6	0	High	NV	20	10.23	0.005749	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	60	10.07	0.005884	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	70	9.1	0.005317	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	50	9.06	0.005294	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	40	9.46	0.005527	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	30	8.63	0.005042	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	10	10.1	0.005901	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	0	9.78	0.005714	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	-10	4.88	0.002851	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	-20	7.7	0.004499	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	-30	6.15	0.003593	PASS
Band66	3MHz	131987	QPSK	6	0	Low	NV	20	8.88	0.005188	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	60	-18.47	-0.010585	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	-30	-18.47	-0.010585	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	-20	-7.4	-0.004241	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	-10	-12.17	-0.006974	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	0	-17.42	-0.009983	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	10	3.53	0.002023	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	20	-18.31	-0.010493	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	30	-18.65	-0.010688	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	50	-16.15	-0.009255	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	70	-6.54	-0.003748	PASS
Band66	3MHz	132322	QPSK	6	0	Low	NV	40	-10.24	-0.005868	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	0	-11.47	-0.006449	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	70	-14.18	-0.007973	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	60	-10.73	-0.006033	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	50	-12.79	-0.007191	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	3MHz	132657	QPSK	6	0	High	NV	40	-11.36	-0.006387	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	30	-8.65	-0.004864	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	10	-12.12	-0.006815	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	-10	-8.53	-0.004796	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	-20	-10.07	-0.005662	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	-30	-13.53	-0.007608	PASS
Band66	3MHz	132657	QPSK	6	0	High	NV	20	-9.94	-0.005589	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	50	6.22	0.003634	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	60	8.55	0.004996	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	40	5.31	0.003103	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	30	8.58	0.005013	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	20	9.98	0.005831	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	10	8.78	0.00513	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	0	7.52	0.004394	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	-10	9	0.005259	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	-20	10.4	0.006077	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	-30	6.54	0.003821	PASS
Band66	3MHz	131987	16QAM	6	0	Low	NV	70	7.42	0.004335	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	0	-13.26	-0.007599	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	-30	-17.18	-0.009845	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	-10	-6.18	-0.003542	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	10	-20.63	-0.011822	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	20	-5.44	-0.003117	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	30	-17.14	-0.009822	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	40	-20.5	-0.011748	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	50	-15.81	-0.00906	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	60	-19.2	-0.011003	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	70	-6.09	-0.00349	PASS
Band66	3MHz	132322	16QAM	6	0	Low	NV	-20	-7.44	-0.004264	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	-20	-9.04	-0.005083	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	30	-11.94	-0.006714	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	70	-13.15	-0.007394	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	60	-9.63	-0.005415	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	50	-9.81	-0.005516	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	40	-14.06	-0.007906	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	20	-7.6	-0.004273	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	10	-7.48	-0.004206	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	-10	-12.19	-0.006854	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	-30	-7.34	-0.004127	PASS
Band66	3MHz	132657	16QAM	6	0	High	NV	0	-13.05	-0.007338	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	30	-9.9	-0.005781	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	70	-8.98	-0.005244	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	5MHz	131997	QPSK	6	0	Low	NV	60	-9.91	-0.005787	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	50	-8.41	-0.004911	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	40	-8.74	-0.005104	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	10	-7.72	-0.004508	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	0	-6.49	-0.00379	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	-10	-8.31	-0.004853	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	-20	-9.5	-0.005547	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	20	-8.57	-0.005004	PASS
Band66	5MHz	131997	QPSK	6	0	Low	NV	-30	-8.34	-0.00487	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	60	4.78	0.002739	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	-30	5.05	0.002894	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	-20	6.48	0.003713	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	-10	5.79	0.003318	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	0	7.15	0.004097	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	10	6.39	0.003662	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	20	-5.61	-0.003215	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	30	5.15	0.002951	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	50	6.48	0.003713	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	70	-6.64	-0.003805	PASS
Band66	5MHz	132322	QPSK	6	0	Low	NV	40	8.18	0.004688	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	70	10.94	0.006155	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	60	11.7	0.006582	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	50	10.81	0.006082	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	40	9.04	0.005086	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	30	8.41	0.004731	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	20	10.89	0.006127	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	10	10.77	0.006059	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	0	5.36	0.003015	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	-10	8.21	0.004619	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	-20	8.98	0.005052	PASS
Band66	5MHz	132647	QPSK	6	0	High	NV	-30	12.16	0.006841	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	0	-7.78	-0.004543	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	70	-9.68	-0.005653	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	60	-9.67	-0.005647	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	50	-5.88	-0.003434	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	40	-9.06	-0.005291	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	30	-10.33	-0.006032	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	10	-6.72	-0.003924	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	-10	-7.34	-0.004286	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	-20	-6.62	-0.003866	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	-30	-4.92	-0.002873	PASS
Band66	5MHz	131997	16QAM	6	0	Low	NV	20	-7.54	-0.004403	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	5MHz	132322	16QAM	6	0	Low	NV	-20	6.71	0.003845	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	-30	4.73	0.002711	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	-10	6.71	0.003845	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	0	-7.35	-0.004212	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	10	6.17	0.003536	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	30	6.65	0.003811	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	40	5.85	0.003352	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	50	4.02	0.002304	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	60	-5.88	-0.00337	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	70	5.15	0.002951	PASS
Band66	5MHz	132322	16QAM	6	0	Low	NV	20	6.65	0.003811	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	-20	6.28	0.003533	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	70	8.53	0.004799	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	60	10	0.005626	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	50	10	0.005626	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	40	10.34	0.005817	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	30	10.01	0.005632	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	20	10.21	0.005744	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	10	10.81	0.006082	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	-10	9.26	0.00521	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	-30	9.88	0.005558	PASS
Band66	5MHz	132647	16QAM	6	0	High	NV	0	9.64	0.005423	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	70	11.27	0.006571	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	60	10.89	0.00635	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	50	10.69	0.006233	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	40	11.49	0.0067	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	30	9.81	0.00572	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	10	10.49	0.006117	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	0	11.93	0.006956	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	-10	11.84	0.006904	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	-20	12.83	0.007481	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	-30	12.46	0.007265	PASS
Band66	10MHz	132022	QPSK	6	0	Low	NV	20	9.87	0.005755	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	-30	9.14	0.005238	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	-20	10.77	0.006172	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	-10	11.07	0.006344	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	0	10.5	0.006017	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	10	11.14	0.006384	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	20	10.86	0.006223	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	30	10.63	0.006092	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	60	10.74	0.006155	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	50	12.27	0.007032	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	10MHz	132322	QPSK	6	0	Low	NV	40	10.07	0.005771	PASS
Band66	10MHz	132322	QPSK	6	0	Low	NV	70	10.19	0.00584	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	-30	9.08	0.005115	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	-20	11.47	0.006462	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	-10	10.6	0.005972	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	0	10.51	0.005921	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	10	12.19	0.006868	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	20	10.46	0.005893	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	30	11.33	0.006383	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	40	7.2	0.004056	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	50	11	0.006197	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	60	8.65	0.004873	PASS
Band66	10MHz	132622	QPSK	6	0	High	NV	70	9.93	0.005594	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	20	10.6	0.006181	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	70	11.63	0.006781	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	60	9.98	0.005819	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	50	10.26	0.005983	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	-30	9.73	0.005673	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	30	11.6	0.006764	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	10	10.99	0.006408	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	0	10.39	0.006058	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	-10	11.26	0.006566	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	-20	11.13	0.00649	PASS
Band66	10MHz	132022	16QAM	6	0	Low	NV	40	12.25	0.007143	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	50	12.97	0.007433	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	-20	12.2	0.006991	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	70	11.1	0.006361	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	-30	9.73	0.005576	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	-10	8.27	0.004739	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	0	14.33	0.008212	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	10	12.73	0.007295	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	20	11.23	0.006436	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	30	11.63	0.006665	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	40	11.74	0.006728	PASS
Band66	10MHz	132322	16QAM	6	0	Low	NV	60	7.65	0.004384	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	30	10.09	0.005685	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	70	9.83	0.005538	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	60	10.43	0.005876	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	50	6.48	0.003651	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	40	11.64	0.006558	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	10	8.53	0.004806	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	0	10.3	0.005803	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	10MHz	132622	16QAM	6	0	High	NV	-10	9.01	0.005076	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	-20	8.17	0.004603	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	-30	8.58	0.004834	PASS
Band66	10MHz	132622	16QAM	6	0	High	NV	20	9.97	0.005617	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	60	9.27	0.005397	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	70	10.99	0.006399	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	50	9.24	0.00538	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	40	10.21	0.005945	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	30	11.49	0.00669	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	10	12.39	0.007214	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	0	7.77	0.004524	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	-10	10.31	0.006003	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	-20	11.17	0.006504	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	-30	10.66	0.006207	PASS
Band66	15MHz	132047	QPSK	6	0	Low	NV	20	10.11	0.005886	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	50	-7.41	-0.004246	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	-20	-6.57	-0.003765	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	-10	6.79	0.003891	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	0	-4.65	-0.002665	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	10	-5.98	-0.003427	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	20	-6.18	-0.003542	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	40	-8.11	-0.004648	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	60	-7.32	-0.004195	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	70	6.21	0.003559	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	-30	6.77	0.00388	PASS
Band66	15MHz	132322	QPSK	6	0	Low	NV	30	6.31	0.003616	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	0	-10.67	-0.00602	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	70	-8.38	-0.004728	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	60	-8.4	-0.004739	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	50	-12.36	-0.006973	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	40	-9.7	-0.005472	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	30	-10.89	-0.006144	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	10	-12.35	-0.006968	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	-10	-11.44	-0.006454	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	-20	-8.45	-0.004767	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	-30	-10.7	-0.006037	PASS
Band66	15MHz	132597	QPSK	6	0	High	NV	20	-9.74	-0.005495	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	50	9.53	0.005549	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	60	8.04	0.004681	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	40	11.13	0.00648	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	30	9.4	0.005473	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	20	10.2	0.005939	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	15MHz	132047	16QAM	6	0	Low	NV	10	8.98	0.005229	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	0	10.63	0.006189	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	-10	10.36	0.006032	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	-20	10.64	0.006195	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	-30	11.04	0.006428	PASS
Band66	15MHz	132047	16QAM	6	0	Low	NV	70	9.11	0.005304	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	0	-7.2	-0.004126	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	-30	-5.42	-0.003106	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	-10	-8.47	-0.004854	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	10	4.02	0.002304	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	20	-7	-0.004011	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	30	-7.07	-0.004052	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	40	-4.98	-0.002854	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	50	-7.01	-0.004017	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	60	-7.47	-0.004281	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	70	-8.33	-0.004774	PASS
Band66	15MHz	132322	16QAM	6	0	Low	NV	-20	-9.33	-0.005347	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	-20	-11.36	-0.006409	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	30	-8.91	-0.005027	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	70	-11.12	-0.006274	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	60	-9.31	-0.005252	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	50	-11.86	-0.006691	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	40	-11.27	-0.006358	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	20	-13.2	-0.007447	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	10	-9.31	-0.005252	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	-10	-11.93	-0.006731	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	-30	-7.87	-0.004444	PASS
Band66	15MHz	132597	16QAM	6	0	High	NV	0	-10.9	-0.00615	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	30	-11.69	-0.006797	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	70	-11.5	-0.006686	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	60	-14.22	-0.008267	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	50	-12.2	-0.007093	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	40	-12.85	-0.007471	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	10	-12.02	-0.006988	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	0	-12.32	-0.007163	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	-10	-13.07	-0.007599	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	-20	-13.13	-0.007634	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	20	-12.56	-0.007302	PASS
Band66	20MHz	132072	QPSK	6	0	Low	NV	-30	-11.99	-0.006971	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	60	-8.05	-0.004613	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	-30	-7.31	-0.004189	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	-20	-8.84	-0.005066	PASS



## Test Report No.: W7L-P23120015RI04

BUREAU  
VERITAS

Band66	20MHz	132322	QPSK	6	0	Low	NV	-10	-7.47	-0.004281	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	0	-4.33	-0.002481	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	10	-10.11	-0.005794	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	20	-6.81	-0.003903	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	30	-6.68	-0.003828	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	50	-7.64	-0.004378	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	70	-5.28	-0.003026	PASS
Band66	20MHz	132322	QPSK	6	0	Low	NV	40	-7.62	-0.004367	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	70	10.87	0.006141	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	60	10.01	0.005655	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	50	11.74	0.006633	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	40	10.16	0.00574	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	30	13.36	0.007548	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	20	10.59	0.005983	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	10	10.73	0.006062	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	0	13.03	0.007362	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	-10	11.47	0.00648	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	-20	12.33	0.006966	PASS
Band66	20MHz	132572	QPSK	6	0	High	NV	-30	12.69	0.007169	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	0	-12.26	-0.007128	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	70	-12.16	-0.00707	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	60	-10.09	-0.005866	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	50	-13.16	-0.007651	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	40	-12.72	-0.007395	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	30	-11.36	-0.006605	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	10	-12.82	-0.007453	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	-10	-12.3	-0.007151	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	-20	-13.06	-0.007593	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	-30	-11.64	-0.006767	PASS
Band66	20MHz	132072	16QAM	6	0	Low	NV	20	-12.66	-0.00736	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	-20	-5.55	-0.003181	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	-30	-6.35	-0.003639	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	-10	-7.5	-0.004298	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	0	-6.68	-0.003828	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	10	-4.26	-0.002441	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	30	-6.28	-0.003599	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	40	-6.07	-0.003479	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	50	-7.25	-0.004155	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	60	-6.45	-0.003696	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	70	5.87	0.003364	PASS
Band66	20MHz	132322	16QAM	6	0	Low	NV	20	-6.98	-0.004	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	-20	11.64	0.006576	PASS



Test Report No.: W7L-P23120015RI04

Band	Frequency	Model	Modulation	BER	Symbol Rate	Power Level	Antenna Type	SNR	BER	Test ID	Status
Band66	20MHz	132572	16QAM	6	0	High	NV	70	11.74	0.006633	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	60	12.43	0.007023	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	50	11.07	0.006254	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	40	11	0.006215	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	30	13.35	0.007542	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	20	12.25	0.006921	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	10	12.8	0.007232	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	-10	12.49	0.007056	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	-30	13.29	0.007508	PASS
Band66	20MHz	132572	16QAM	6	0	High	NV	0	12.19	0.006887	PASS

---END--

DRAFT