

FCC TEST REPORT

(PART 90)

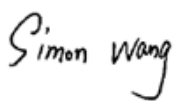
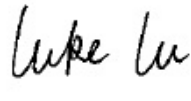
Applicant:	POINTMOBILE CO.,LTD
Address:	9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu, Seoul, Korea 08512

Manufacturer or Supplier	POINTMOBILE CO.,LTD
Address	9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu, Seoul, Korea 08512
Product	Moblie computer
Brand Name	Point mobile
Model Name	PM95
FCC ID	V2X-PM95
Date of tests	Jan. 08, 2024 ~ May. 10, 2024

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

☒ **FCC Part 90, Subpart R, S** ☒ **ANSI/TIA/EIA-603- D**
☒ **FCC Part 2** ☒ **ANSI/TIA/EIA-603-E** ☒ **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: May. 10, 2024	Date: May. 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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23120020RF08	Original release	May. 10, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 90 & Part 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046 §90.635(b)	Conducted Output Power (Band26)	PASS	A
§ 90.542(a)(7)	Effective Radiated Power (Band14)	PASS	A
§2.1055 § 90.213 § 90.539	Frequency Stability	PASS	A
§2.1049 §90.209	Occupied Bandwidth	PASS	A
§2.1051 §90.543(e)(f) §90.691(a)	Emission Masks	PASS	A
§2.1051 §90.543(e)(f) §90.691(a)	Conducted Spurious Emissions	PASS	A
§2.1053 §90.691 §90.543(e)(f)	Radiated Spurious Emissions	PASS	B

*Test Lab Information Reference

Lab A:

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

Lab Address:

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

Accredited Test Lab Cert 3939.01

The FCC Site Registration No. : 525120; Designation No. : CN1171;

Lab B:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	±2.06dB
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (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
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.

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
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 27,24	Mar. 26,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,23	Sep.01,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,23	Feb. 17,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 17,24	Feb. 16,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 17,24	Feb. 16,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.03, 23	Sep.02, 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 9135	980249	May. 05,24	May. 04,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,24	May.08,25
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-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	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
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 05,24	May. 04,25
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
Temperature Chamber	ESPEC	SH-242	93000855	May. 05,24	May. 04,25
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&Schwa rz	CMW500	153085	May.10,23	May.09,24
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.09,24	May.08,25



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DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24
N9010B keysight SN	KEYSIGHT	N9010B	MY62170516	Aug. 01,23	Jul. 31, 24

- NOTE:** 1. The calibration interval of the above test instruments is 12/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/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 FCC Site Registration No. is 525120; The Designation No. is CN1171.

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.15,24	Feb.14,26
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.15,24	Feb.14,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-E MC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-E MC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESR26	101734	Feb.24,24	Feb.23,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.22,24	Feb.21,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,24	Feb.21,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24



**BUREAU
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Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Apr.27,24
CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.28,23	Apr.27,24
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,23	Apr.27,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.28,23	Apr.27,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,24	Apr.26,25
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

- NOTE:**
1. The calibration interval of the above test instruments is 12/ 24 / 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/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 FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile computer	
BRAND NAME	Point mobile	
MODEL NAME	PM95	
NOMINAL VOLTAGE	5.0Vdc (adapter) 3.87Vdc (battery)	
MODULATION TECHNOLOGY	5G NR	DFT-s-OFDM(Pi/2 BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
FREQUENCY RANGE	NR Band 14	790.5MHz ~795.5MHz
	NR Band n26	816.5MHz ~ 821.5MHz
EMISSION DESIGNATOR	LTE Band 14 Channel Bandwidth: 5MHz	QPSK: 4M47G7D
		16QAM: 4M46W7D
		64QAM: 4M48W7D
		256QAM: 4M48W7D
		Pi/2BPSK: 4M48G7D
	LTE Band 14 Channel Bandwidth: 10MHz	QPSK: 8M91G7D
		16QAM: 8M91W7D
		64QAM: 8M90W7D
		256QAM: 8M91W7D
		Pi/2BPSK: 8M90G7D
	LTE Band 26 Channel Bandwidth: 5MHz	QPSK: 4M47G7D
		16QAM: 4M46W7D
		64QAM: 4M47W7D
		256QAM: 4M47W7D
		Pi/2BPSK: 4M47G7D
	LTE Band 26 Channel Bandwidth: 10MHz	QPSK: 8M90G7D
		16QAM: 8M91W7D
		64QAM: 8M91W7D
		256QAM: 8M90W7D
		Pi/2BPSK: 8M91G7D
MAX. ERP POWER	LTE Band 14 Channel Bandwidth: 5MHz	82.04mW
	LTE Band 14 Channel Bandwidth: 10MHz	83.18mW
	LTE Band 26 Channel Bandwidth: 5MHz	75.86mW



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	LTE Band 26 Channel Bandwidth: 10MHz	76.56mW
ANTENNA TYPE	Internal Antenna	
ANTENNA GAIN	ANT0: Internal Antenna with -2.18dBi gain for NR Band n14 Internal Antenna with -2.24dBi gain for NR Band n26	
HW VERSION	MP	
SW VERSION	95.00	
I/O PORTS	Refer to user's manual	
DATA CABLE	USB cable: non-shielded cable, with w/o ferrite core, 1.5meter	
EXTREME TEMPERATURE	-20-60 °C	
EXTREME VOLTAGE	3.5V – 4.45V	

NOTE:

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

MODULATION MODE	TX FUNCTION
LTE	1TX/2RX

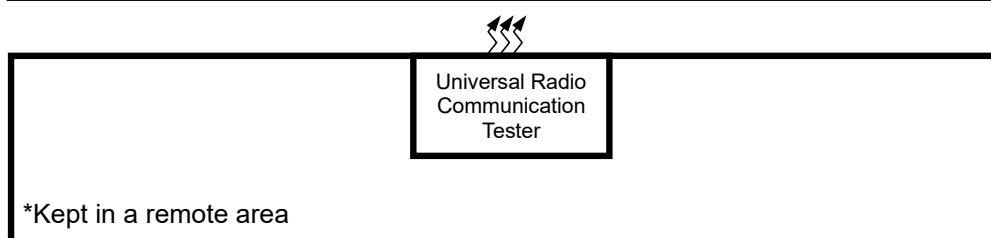
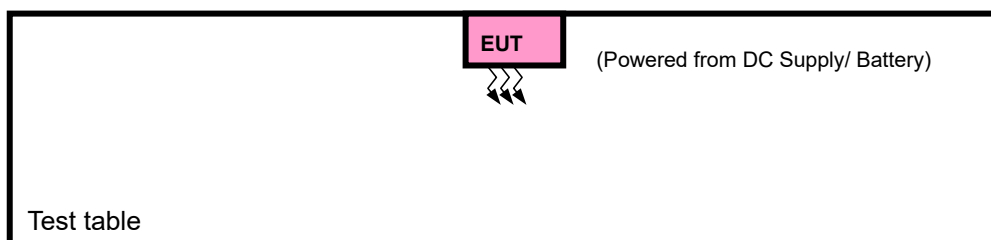
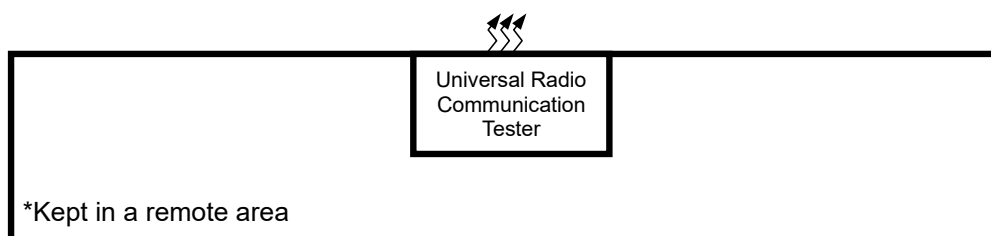
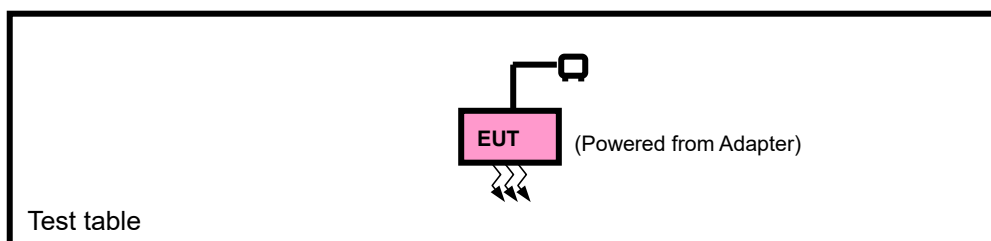
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	N/A	Shenzhen Guangwei Electronic Technology CO., LTD	95-BTSC	Capacity : 3.87Vdc, 4820mAh
AC Adapter 1	N/A	Shenzhen Shi Ying Yuan Electronics Co Ltd	ICP12-050-2000D(ICP12-xxx-yyyf)	I/P: 100-240Vac, 0.3mA, O/P: 5.0Vdc, 2A
AC Adapter 2	N/A	SHENZHEN AQUILSTAR TECHNOLOGY CO.,LTD.	ASUC71w-050912300	I/P: 100-240V~50/60Hz, 0.7A O/P: 5.0Vdc, 3A or 9.0Vdc, 2A or 12.0Vdc, 1.5A
USB Cable	N/A	Dongguan DAWEI PRECISION Technology Co., Ltd.	SC-109B205	USB3.0, 1.5m

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



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	N/A	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: Unshielded, Detachable, 1.5m;

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 in ERP/EIRP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with LTE link
B	EUT + DC Supply /Battery with LTE link

5G NR n14 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	158100 to 159100	158100 to 159100	158100, 158600, 159100	5MHz	QPSK	1RB/ 0RB Offset
		158600	158600	158600	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	158100 to 159100	158100 to 159100	158100, 158600, 159100	5MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	163300 to 164300	163300 to 164300	Low, Middle, High	5MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	158100 to 159100	158100 to 159100	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		158600	158600	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	158100 to 159100	158100 to 159100	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ max Offset
							Outer_ Full
		158600	158600	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	1RB/ max Offset
							Outer_ Full
A	CONDUCTED EMISSION	158100 to 159100	158100 to 159100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		158600	158600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	158100 to 159100	158100 to 159100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		158600	158600	Middle	10MHz	QPSK	1RB/ 0RB Offset

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

2. The test data presented in the report from worst SA_n14

5G NR n26 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	163300 to 164300	163300 to 164300	163300,163800,164300	5MHz	QPSK	1RB/ 0RB Offset
		163800	163800	163800	10MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	163300 to 164300	163300 to 164300	163300,163800,164300	5MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	163300 to 164300	163300 to 164300	Low, Middle, High	5MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	163300 to 164300	163300 to 164300	Middle	5MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		163800	163800	Middle	10MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	163300 to 164300	163300 to 164300	Low	5MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	5MHz	QPSK	1RB/ max Offset Outer_ Full
		163800	163800	Low	10MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	10MHz	QPSK	1RB/ max Offset Outer_ Full
A	CONDUCTED EMISSION	163300 to 164300	163300 to 164300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		163800	163800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	163300 to 164300	163300 to 164300	Middle	5MHz	QPSK	1RB/ 0RB Offset
		163800	163800	Middle	10MHz	QPSK	1RB/ 0RB Offset

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

2. The test data presented in the report from worst SA_n26

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	DC 5.0Vdc by Adapter	Jace Hu
FREQUENCY STABILITY	24deg. C, 61%RH	DC 3.5V/ 3.87V/ 4.45V By Battery	James Fu
OCCUPIED BANDWIDTH	24deg. C, 61%RH	DC 5.0Vdc by Adapter	James Fu
BAND EDGE	24deg. C, 61%RH	DC 5.0Vdc by Adapter	James Fu
CONDUCTED EMISSION	24deg. C, 61%RH	DC 5.0Vdc by Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC 5.0Vdc by Adapter	Jace Hu

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:

FCC 47 CFR Part 2

FCC 47 CFR Part 90

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

47 CFR 90.542(a)(7)

Portable stations (hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP.

Per FCC Part 90.635(b)

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

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_{Meas} , typically dBW or dBm);

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

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

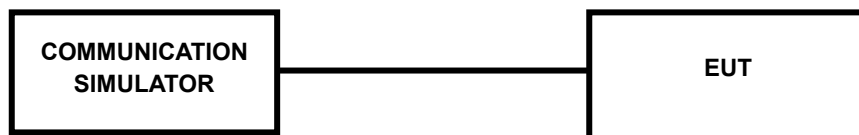
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB

CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

5G SA

N14(ANT0)

BW	MCS Index	RB Size	RB Offset	Low CH 158100	Mid CH 158600	High CH 159100
				Frequency 790.5MHz	Frequency 793MHz	Frequency 795.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.45	23.40	23.47

BW	MCS Index	RB Size	RB Offset	/	Mid CH 158600	/
				/	Frequency 793MHz	/
10M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.42	/
		1	25	/	23.38	/
		1	50	/	23.37	/
		25	0	/	22.82	/
		25	14	/	23.25	/
		25	27	/	22.76	/
		50	0	/	22.77	/
	DFT-s-OFDM QPSK	1	1	/	23.53	/
		1	25	/	23.40	/
		1	50	/	23.39	/
		25	0	/	22.36	/
		25	14	/	23.29	/
		25	27	/	22.28	/
		50	0	/	22.36	/
	DFT-s-OFDM 16QAM	1	1	/	22.57	/
	DFT-s-OFDM 64QAM	1	1	/	21.05	/
	DFT-s-OFDM 256QAM	1	1	/	18.96	/

N26(ANT0)

BW	MCS Index	RB Size	RB Offset	Low CH 163300	Mid CH 163800	High CH 164300
				Frequency 816.5MHz	Frequency 819MHz	Frequency 821.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.04	23.15	23.19

BW	MCS Index	RB Size	RB Offset	/	Mid CH 163800	/
				/	Frequency 819MHz	/
10M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.19	/
		1	25	/	23.21	/
		1	50	/	23.10	/
		25	0	/	22.61	/
		25	14	/	23.09	/
		25	27	/	22.61	/
		50	0	/	22.69	/
	DFT-s-OFDM QPSK	1	1	/	23.23	/
		1	25	/	23.12	/
		1	50	/	23.14	/
		25	0	/	22.14	/
		25	14	/	23.15	/
		25	27	/	22.16	/
		50	0	/	22.22	/
	DFT-s-OFDM 16QAM	1	1	/	22.37	/
	DFT-s-OFDM 64QAM	1	1	/	20.83	/
	DFT-s-OFDM 256QAM	1	1	/	18.77	/

ERP

N14(ANT0)

CHANNEL BANDWIDTH: 5M DFT-s-OFDM QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158100	790.5	23.45	-2.18	19.12	81.66	3
158600	793	23.4	-2.18	19.07	80.72	3
159100	795.5	23.47	-2.18	19.14	82.04	3

CHANNEL BANDWIDTH: 10M DFT-s-OFDM Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	23.42	-2.18	19.09	81.1	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	23.53	-2.18	19.2	83.18	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	22.57	-2.18	18.24	66.68	3

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	21.05	-2.18	16.72	46.99	3

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
158600	793	18.96	-2.18	14.63	29.04	3

N26 (ANT0)

CHANNEL BANDWIDTH: 5M DFT-s-OFDM QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163300	816.5	23.04	-2.24	18.65	73.28	100
163800	819	23.15	-2.24	18.76	75.16	100
164300	821.5	23.19	-2.24	18.8	75.86	100

CHANNEL BANDWIDTH: 10M DFT-s-OFDM Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
163800	819	23.21	-2.24	18.82	76.21	100

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
633334	3500.01	23.23	-2.24	18.84	76.56	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
633334	3500.01	22.37	-2.24	17.98	62.81	1

CHANNEL BANDWIDTH: 100MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
633334	3500.01	20.83	-2.24	16.44	44.06	1

CHANNEL BANDWIDTH: 100MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
633334	3500.01	18.77	-2.24	14.38	27.42	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

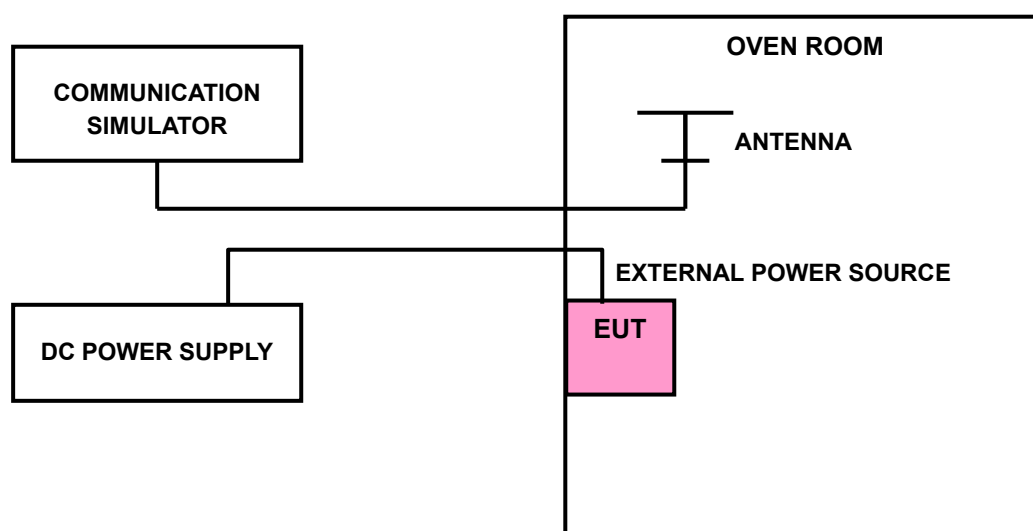
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked

3.2.2 TEST PROCEDURE

- 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.
- 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.
- 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-P23120020RF08

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

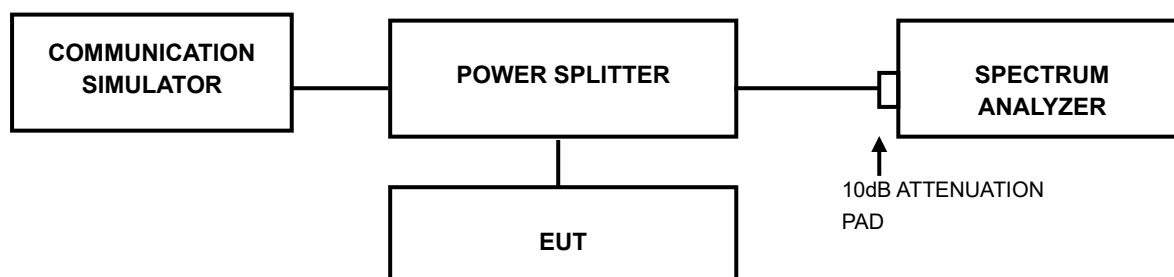
Note: VL = Low voltage(3.5V); VN/NV = Normal voltage(3.87V); VH = High voltage(4.45V);
NT = Normal temperature (25°C)

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-P23120020RF08

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.4 EMISSION MASK MEASUREMENT

3.4.1 LIMITS OF EMISSION MASK MEASUREMENT

NR Band14:

According to FCC part 90.543(e) shall be tested the emission mask.

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

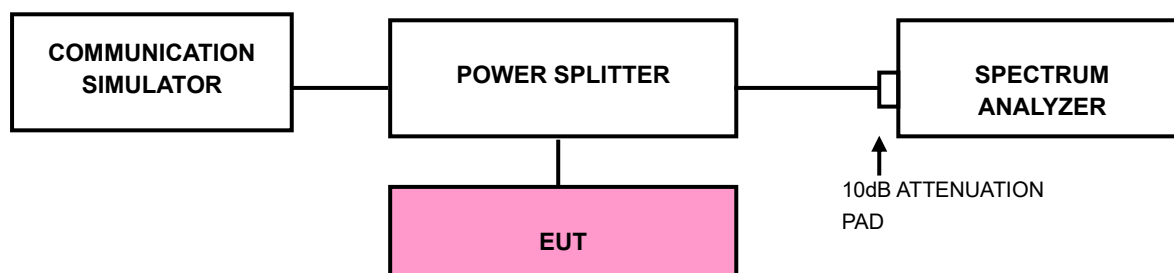
(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

NR Band26:

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

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



Test Report No.: W7L-P23120020RF08

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

47 CFR 90.543(e)

For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the 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, in accordance with the following:

- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

47 CFR 90.543(f)

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

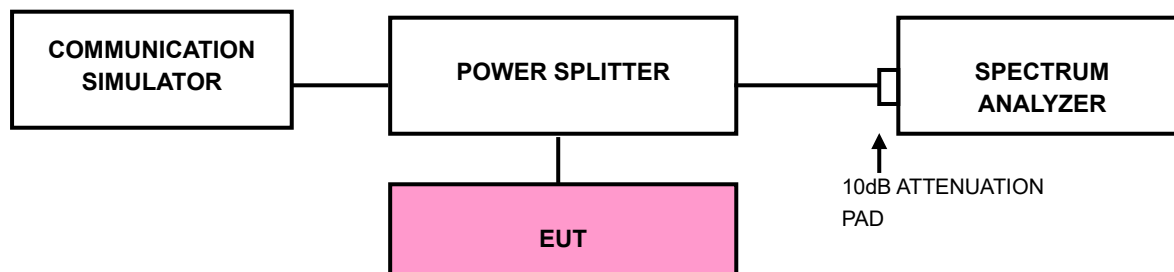
47 CFR 90.691(a)(2)

or any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.5.2 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 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: W7L-P23120020RF08

3.5.4 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.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

47 CFR 90.543(e)

For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the 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, in accordance with the following:

- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

47 CFR 90.543(f)

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

47 CFR 90.691(a)(2)

or any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to

find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}.$

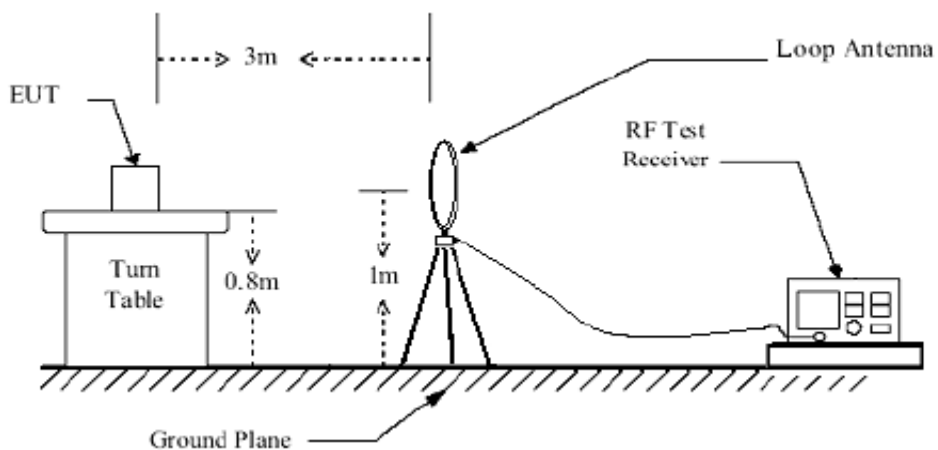
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

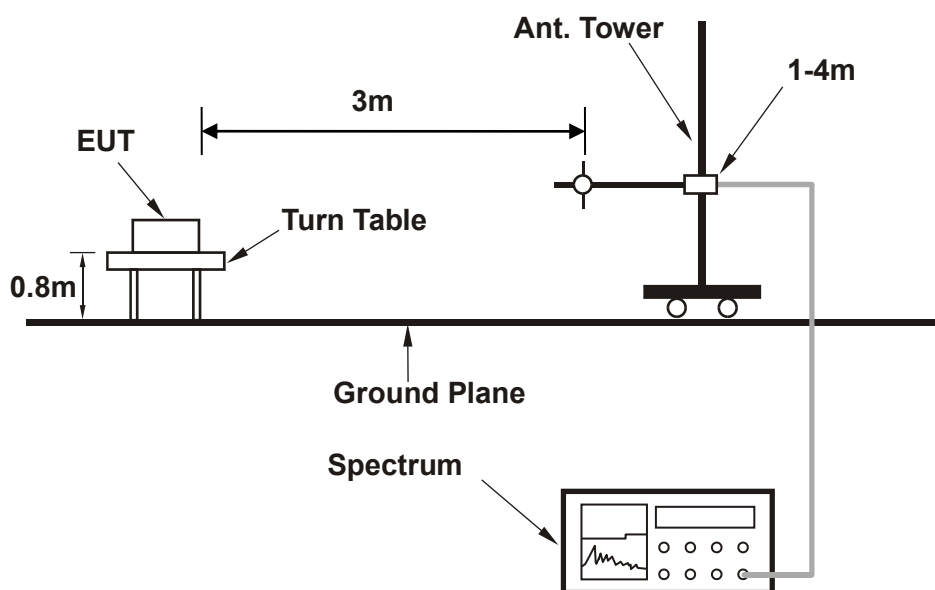
No deviation

3.6.4 TEST SETUP

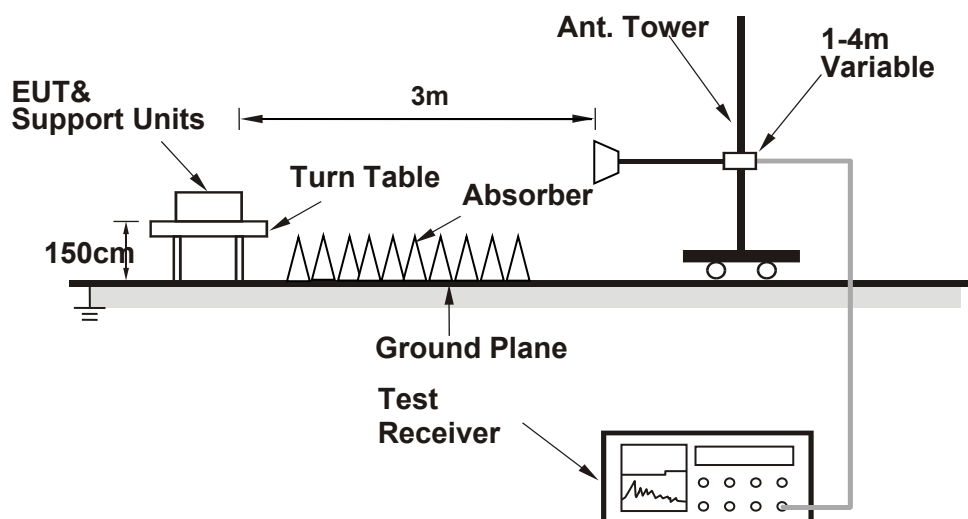
<Below 30MHz>



< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >



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

3.6.5 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

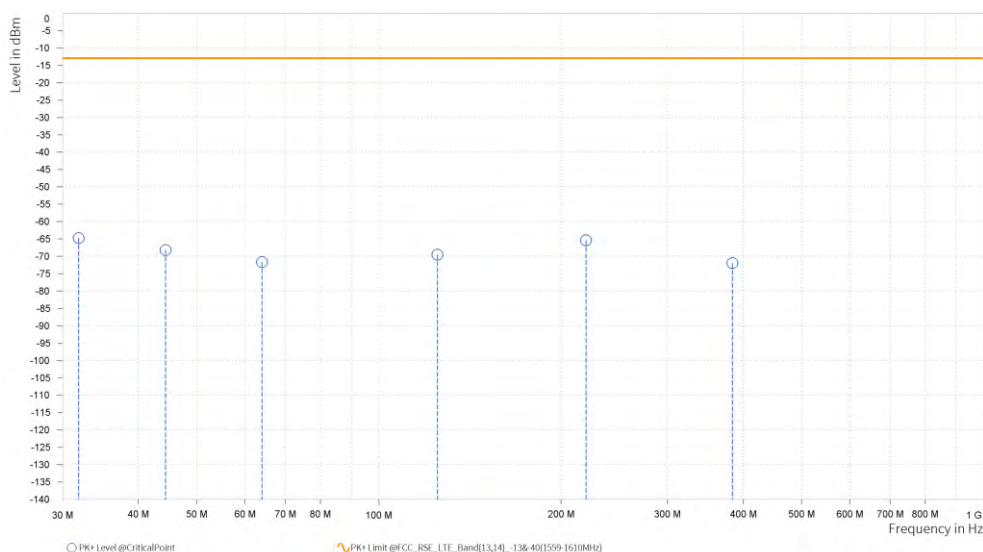
30 MHz – 1GHz data:

NR Band 14:

CHANNEL BANDWIDTH: 5MHz / QPSK

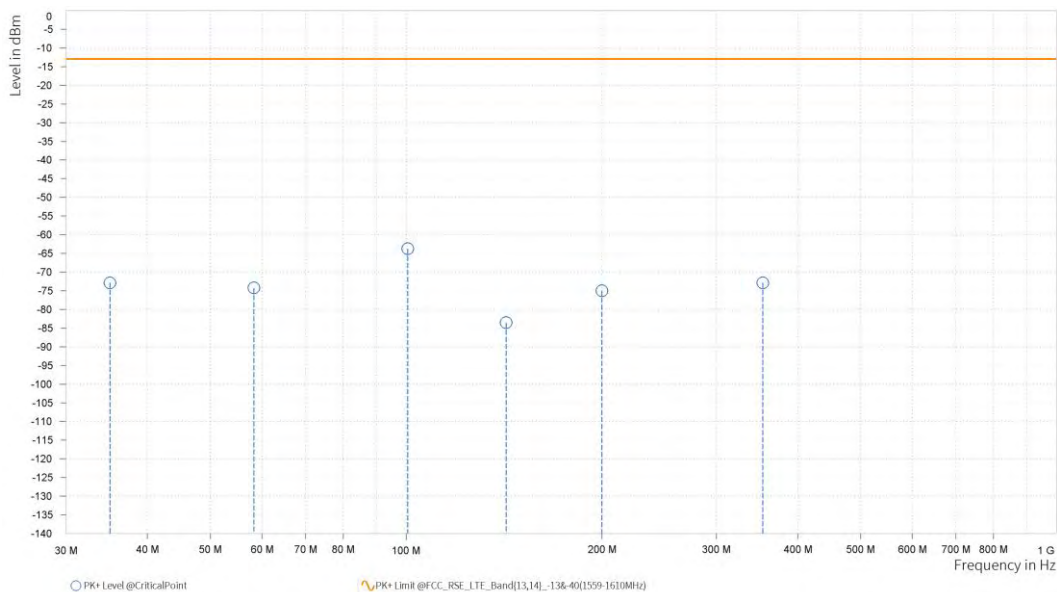
MODE	TX channel 158600	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	31.900	-64.74	-13.00	51.74	-1.28	H	182.6	2.00
1	44.400	-68.19	-13.00	55.19	-1.78	H	5	1.00
1	64.100	-71.62	-13.00	58.62	-7.07	H	1	2.00
1	124.950	-69.51	-13.00	56.51	-13.39	H	87	2.00
1	219.950	-65.41	-13.00	52.41	-4.10	H	234.8	1.00
1	384.050	-71.98	-13.00	58.98	0.27	H	137.9	1.00



MODE	TX channel 158600	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	35.050	-72.89	-13.00	59.89	-10.78	V	359	1.00
1	58.300	-74.25	-13.00	61.25	-4.11	V	355	2.00
1	100.550	-63.75	-13.00	50.75	3.08	V	132	1.00
1	142.450	-83.57	-13.00	70.57	-12.51	V	2.6	2.00
1	199.950	-75.00	-13.00	62.00	-7.25	V	355	2.00
1	353.600	-72.89	-13.00	59.89	-1.04	V	179.8	1.00



ABOVE 1GHz

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

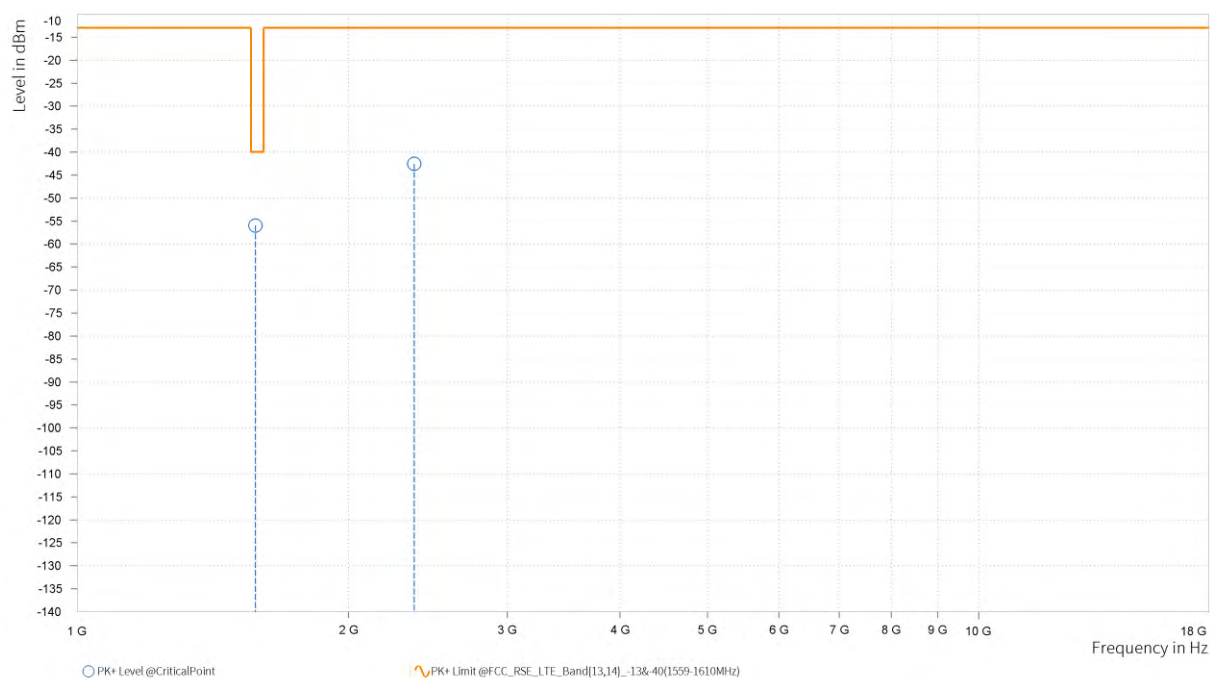
NR Band 14

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 158100

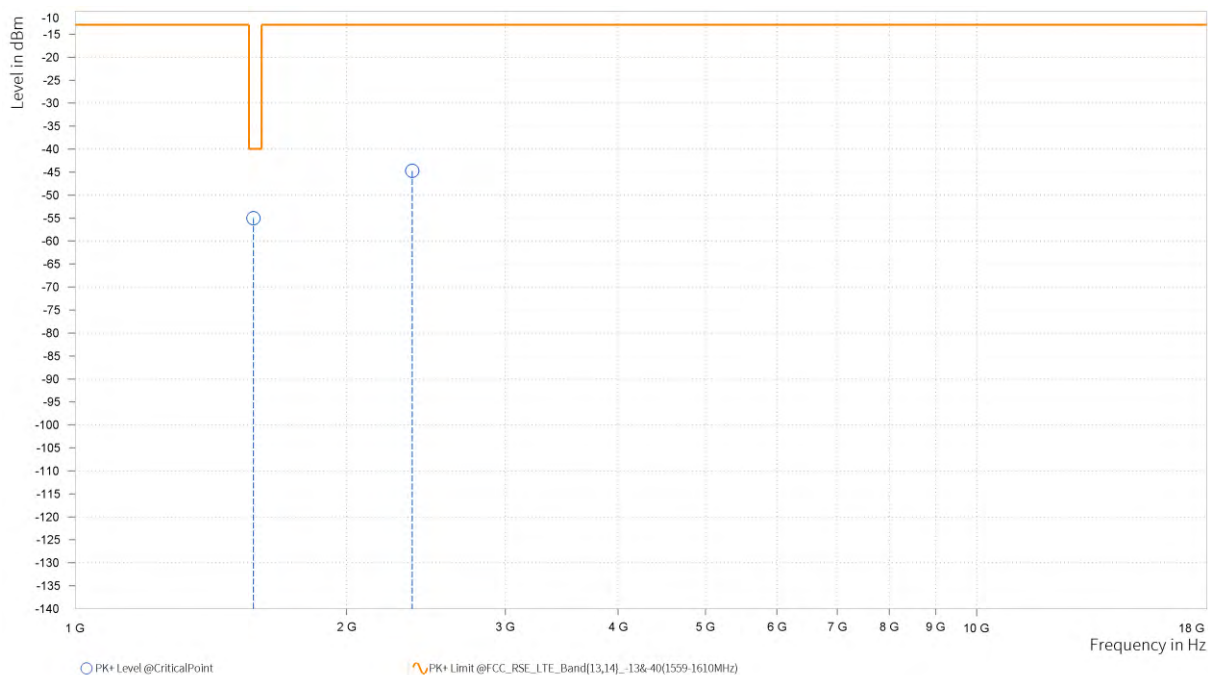
MODE	TX channel 158100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,576.500	-55.95	-40.00	15.95	13.64	H	359.1	1.00
3	2,365.000	-42.56	-13.00	29.56	21.28	H	359	2.00



MODE	TX channel 158100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

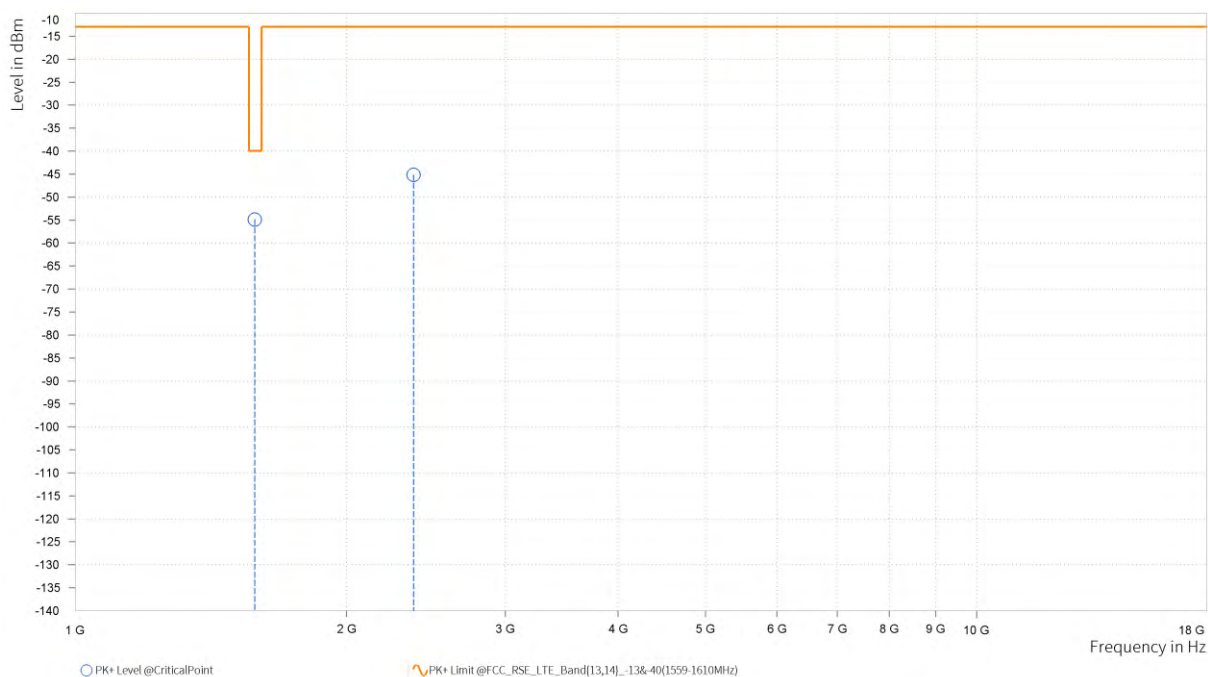
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,576.500	-55.01	-40.00	15.01	14.84	V	5.4	2.00
3	2,365.000	-44.74	-13.00	31.74	20.92	V	1	1.00



CH 158600

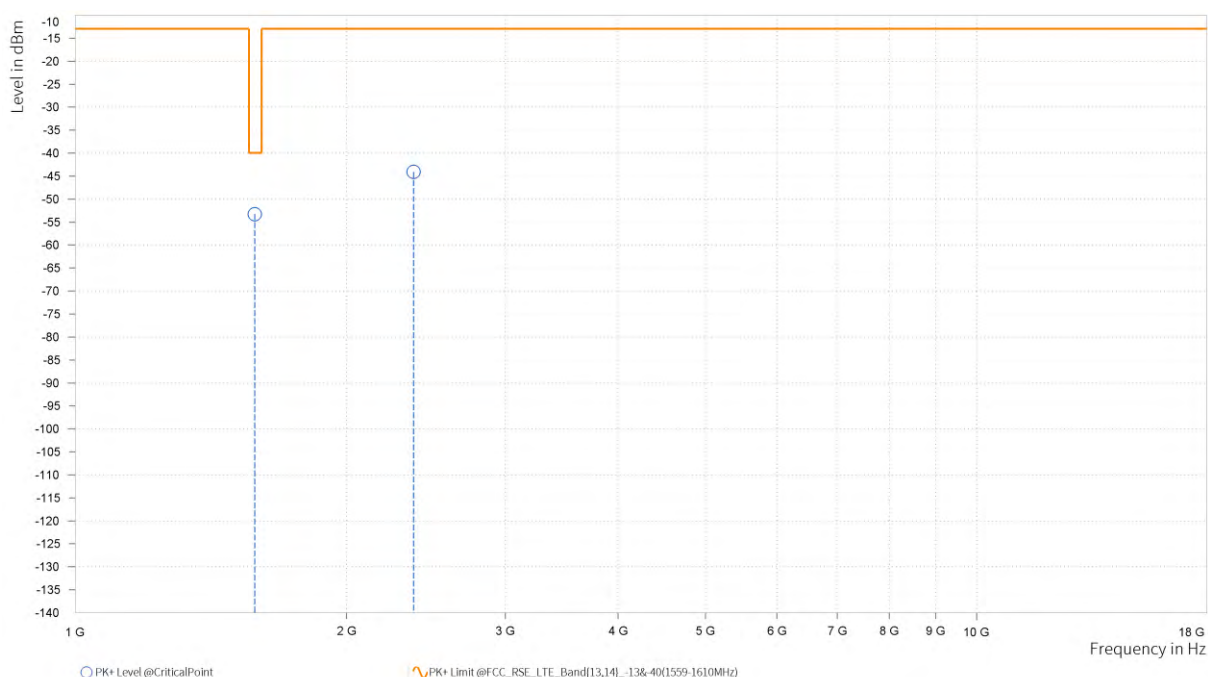
MODE	TX channel 158600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,581.500	-54.87	-40.00	14.87	13.74	H	0.9	2.00
3	2,372.250	-45.15	-13.00	32.15	21.37	H	259.1	2.00



MODE	TX channel 158600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

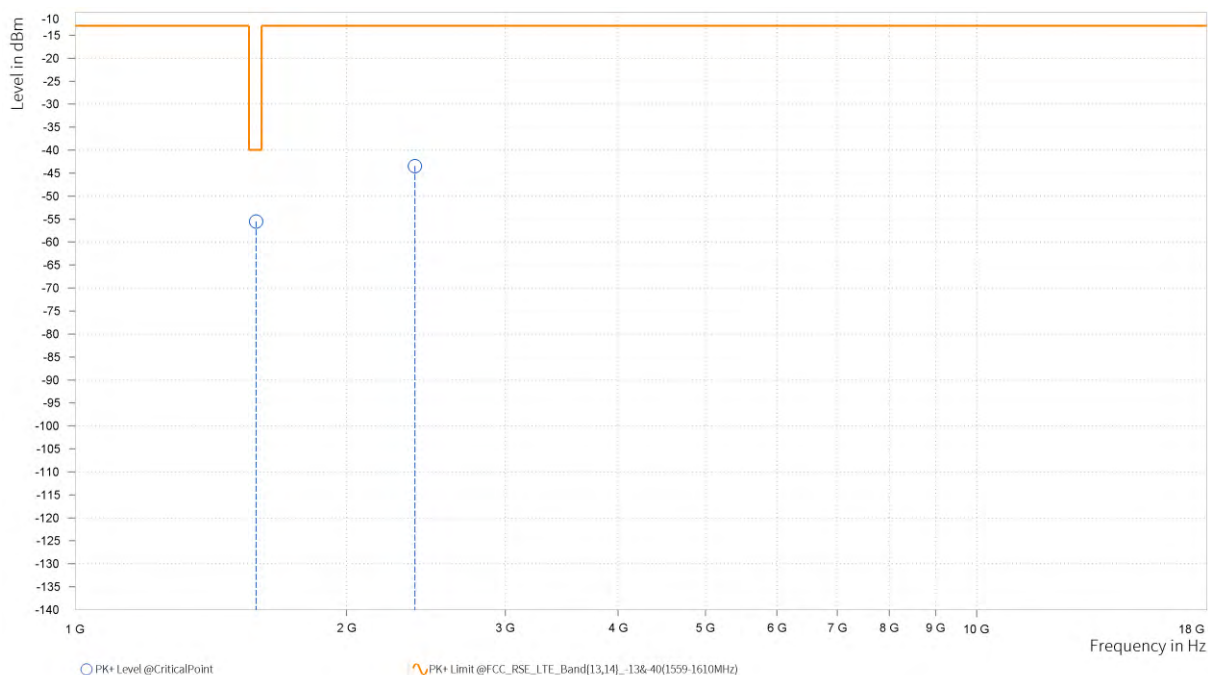
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,581.500	-53.26	-40.00	13.26	14.87	V	1	2.00
3	2,372.250	-44.10	-13.00	31.10	20.81	V	2.1	2.00



CH 159100

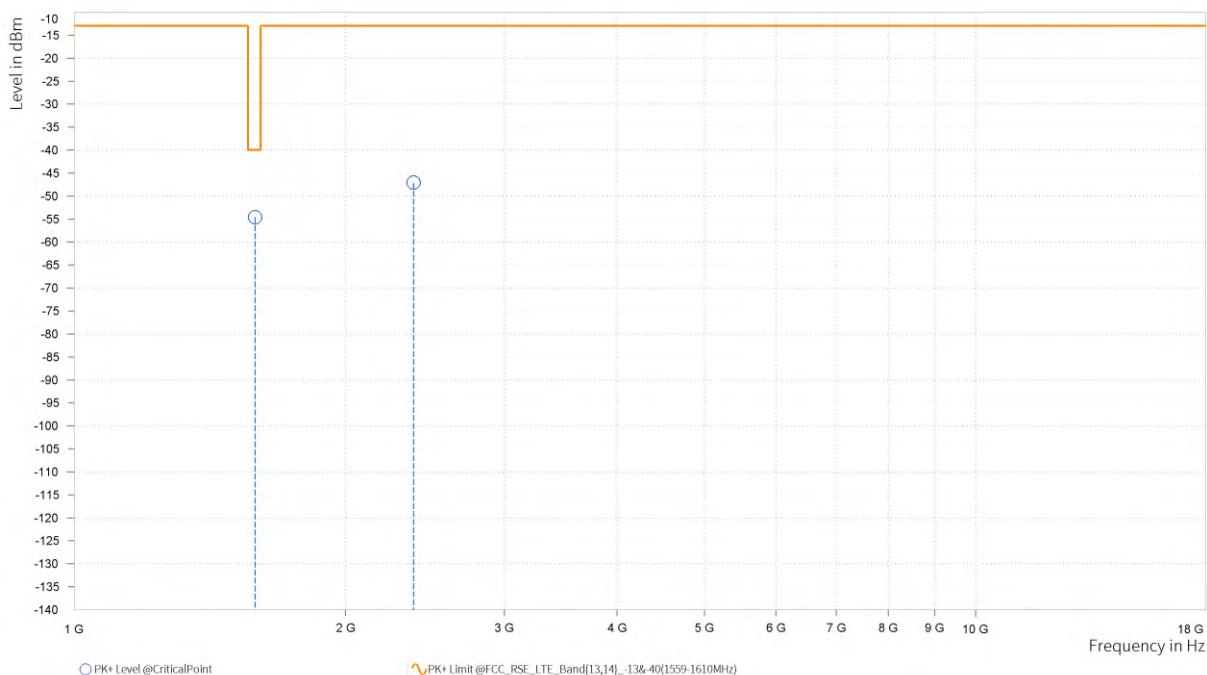
MODE	TX channel 159100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,586.500	-55.53	-40.00	15.53	13.83	H	1	2.00
3	2,380.000	-43.47	-13.00	30.47	21.12	H	103.3	1.00



MODE	TX channel 159100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

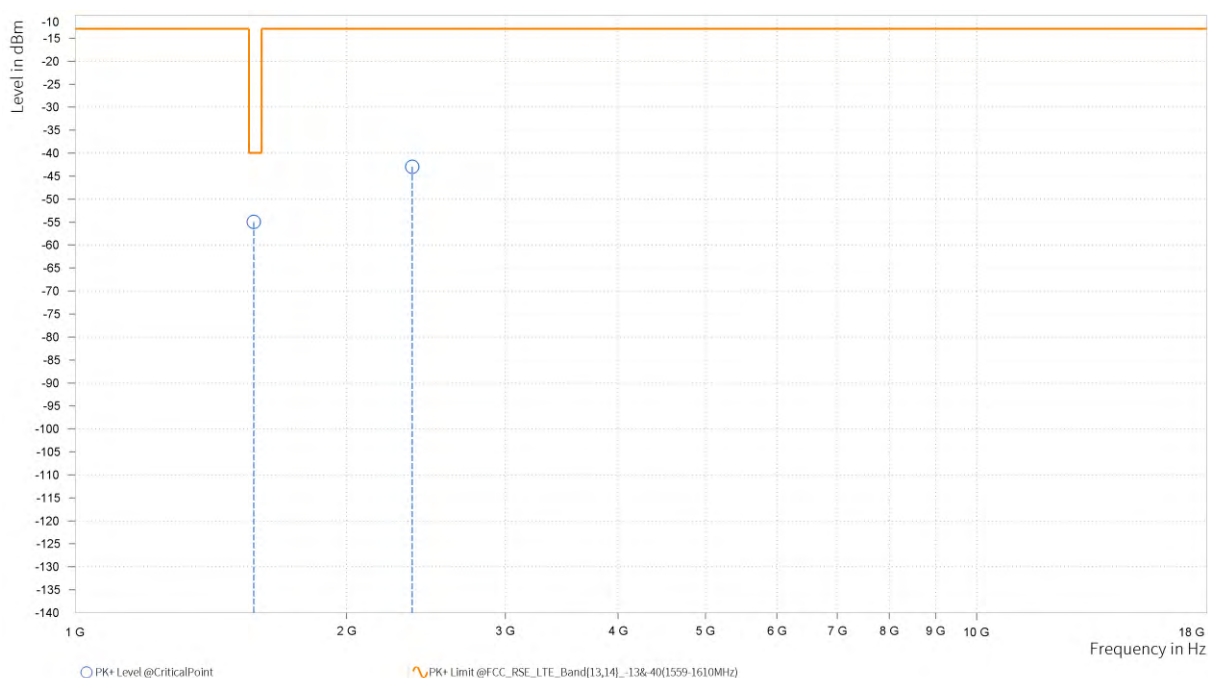
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,586.500	-54.57	-40.00	14.57	14.91	V	283.8	1.00
3	2,379.750	-47.06	-13.00	34.06	20.59	V	359	2.00



CHANNEL BANDWIDTH: 10MHz / QPSK

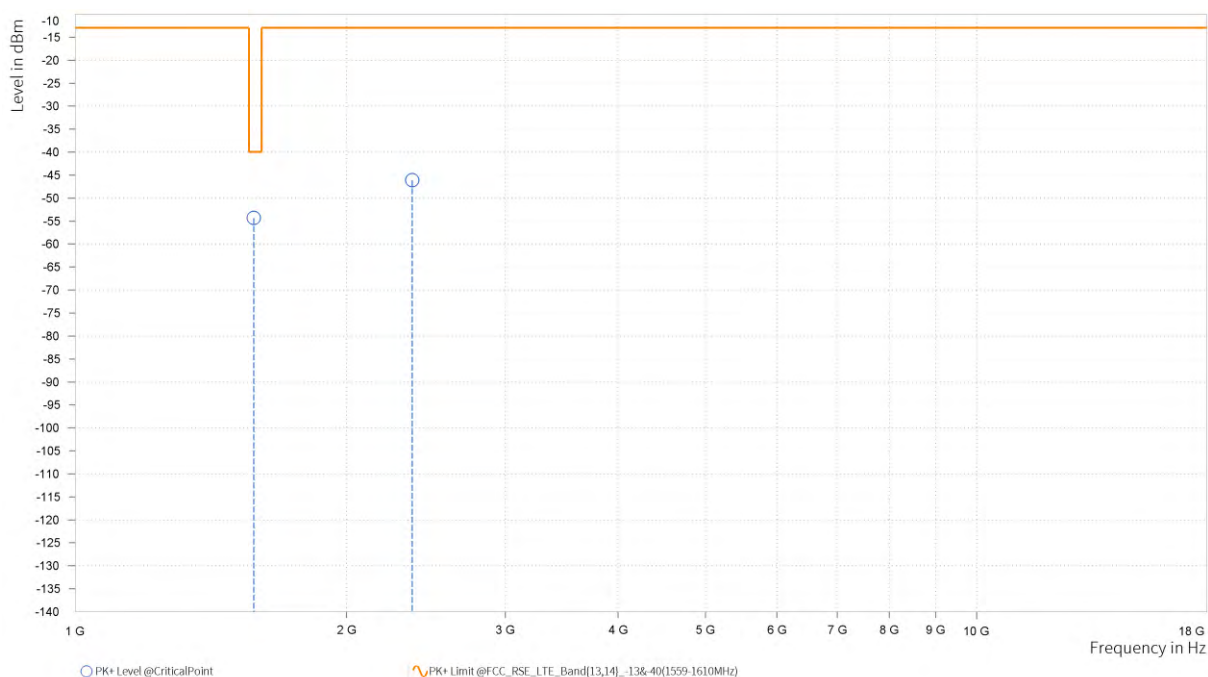
MODE	TX channel 158600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,577.000	-54.96	-40.00	14.96	13.65	H	355.7	1.00
3	2,364.500	-42.94	-13.00	29.94	21.27	H	102.2	1.00



MODE	TX channel 158600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,577.000	-54.34	-40.00	14.34	14.85	V	359.1	1.00
3	2,365.500	-46.10	-13.00	33.10	20.91	V	1	2.00

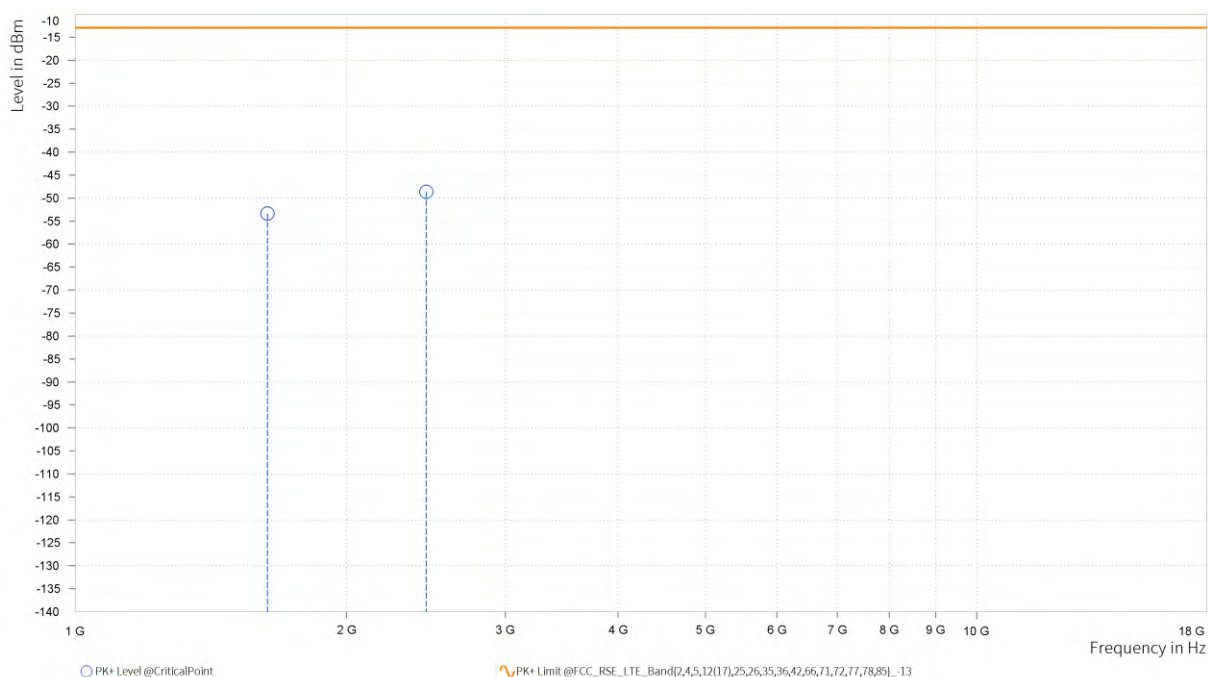


NR Band 26

CHANNEL BANDWIDTH: 5MHz / QPSK

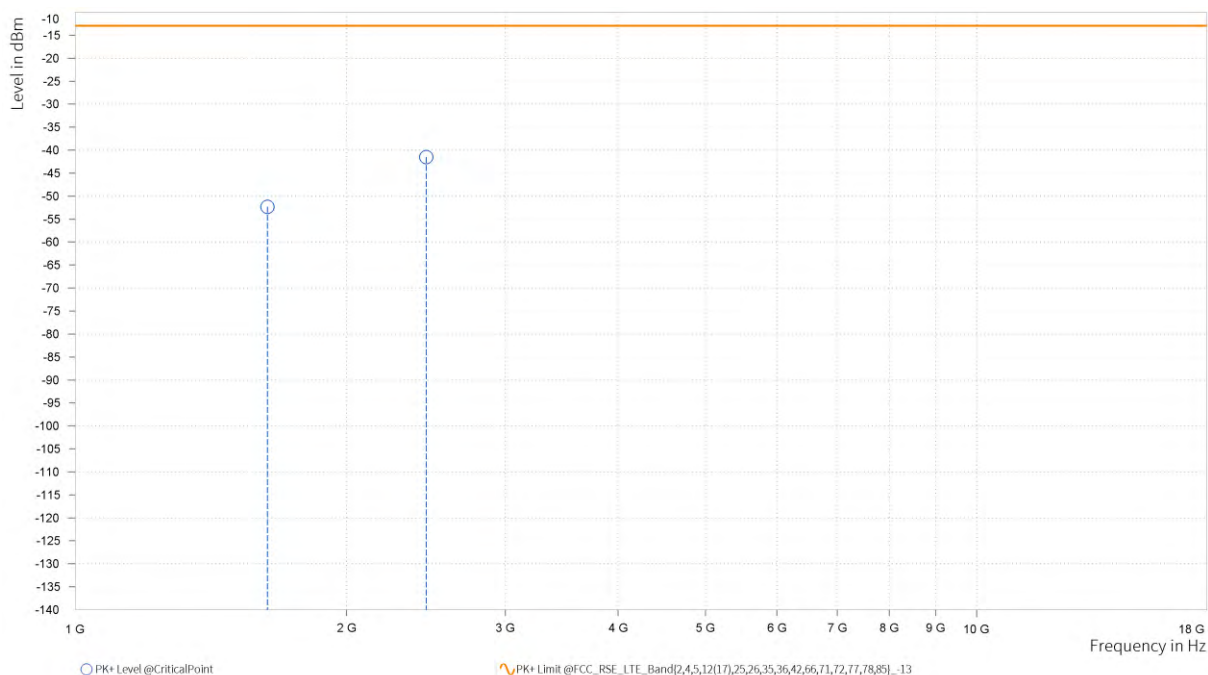
MODE	TX channel 163800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,633.500	-53.39	-13.00	40.39	14.89	H	357	1.00
3	2,450.000	-48.66	-13.00	35.66	21.10	H	1	2.00



MODE	TX channel 163800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

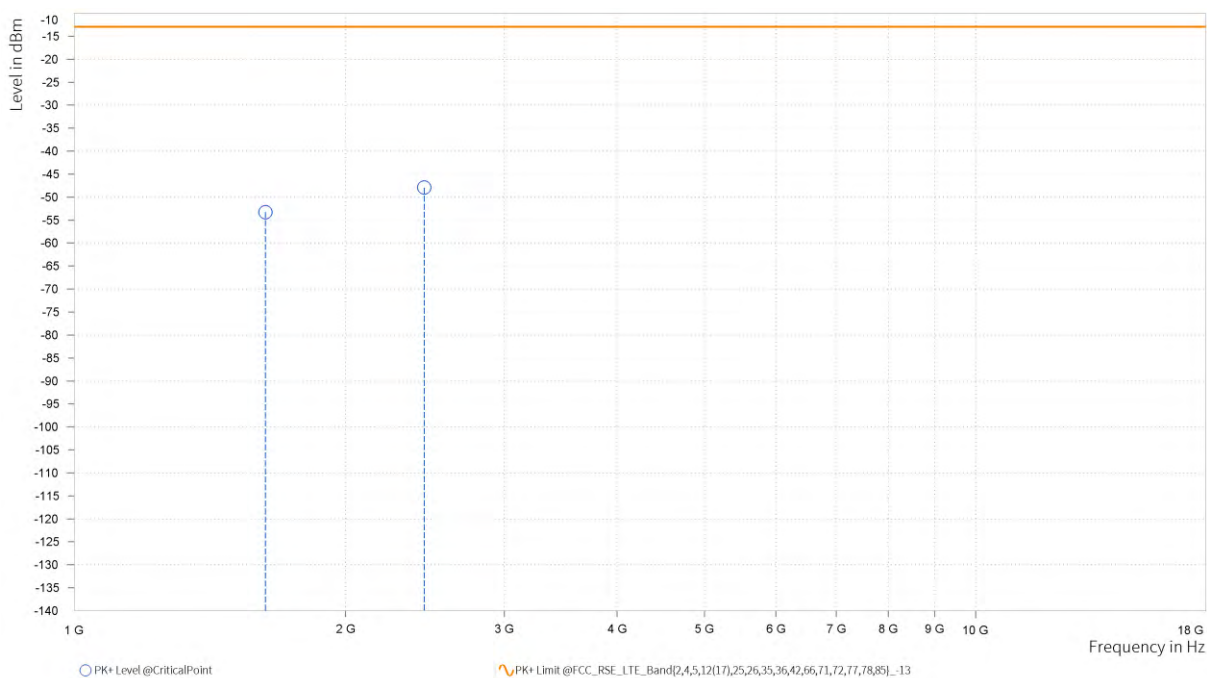
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,633.500	-52.31	-13.00	39.31	15.00	V	272.3	2.00
3	2,451.000	-41.49	-13.00	28.49	21.01	V	160.6	1.00



CHANNEL BANDWIDTH: 10MHz / QPSK

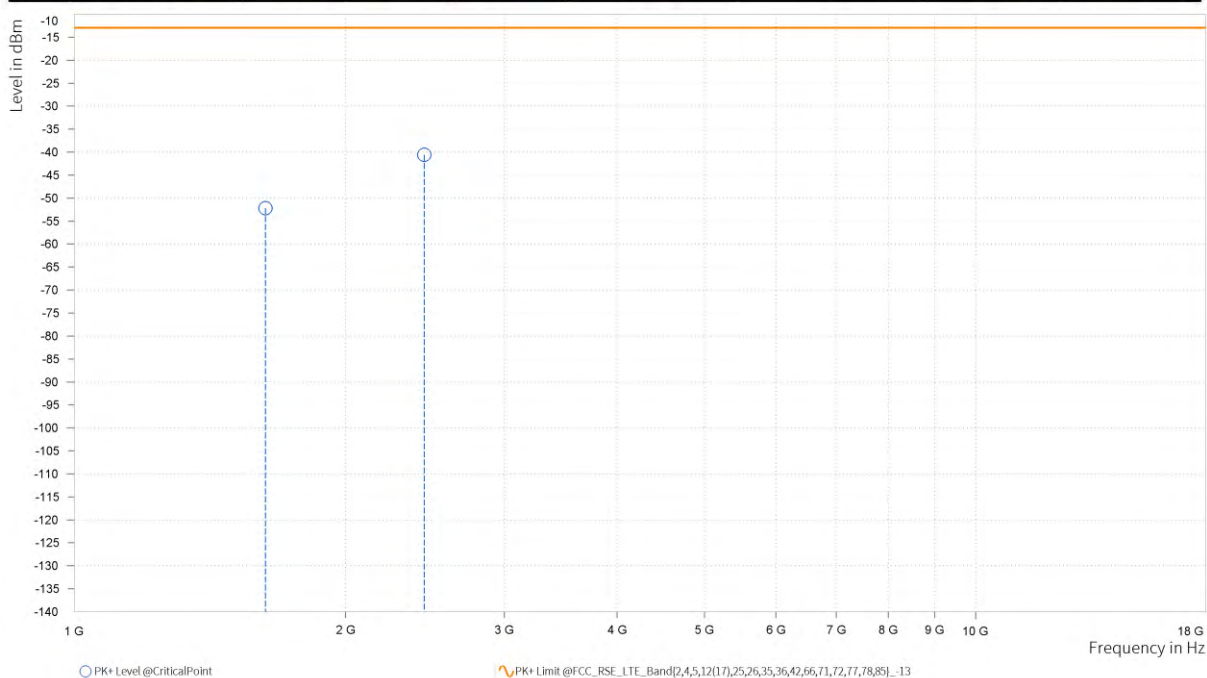
MODE	TX channel 163800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,629.000	-53.26	-13.00	40.26	14.80	H	3.3	2.00
3	2,444.000	-47.92	-13.00	34.92	21.17	H	101	1.00



MODE	TX channel 163800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,629.000	-52.16	-13.00	39.16	14.99	V	0.8	2.00
3	2,444.500	-40.60	-13.00	27.60	20.99	V	198.2	2.00

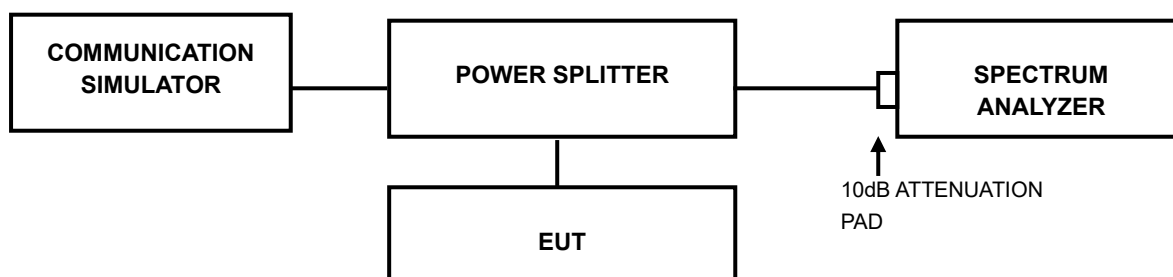


3.7 PEAK TO AVERAGE RATIO

3.7.1 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

3.7.2 TEST SETUP



3.7.3 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-P23120020RF08

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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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, Telecom and Safety consultation. 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: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com

Web Site: www.adt.com.tw

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



Test Report No.: W7L-P23120020RF08

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.

6 APPENDIX

N14

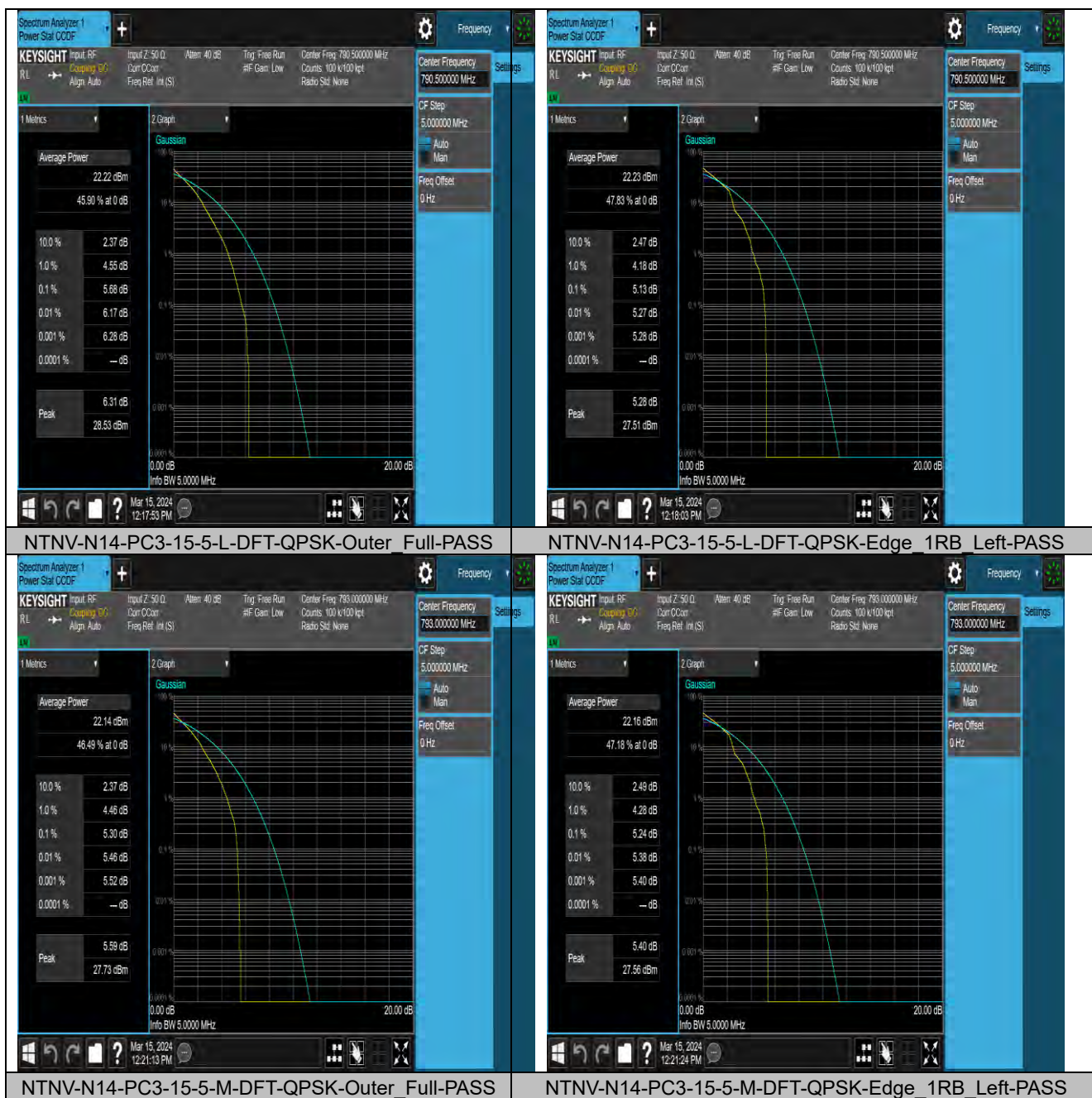
PEAK-TO-AVERAGE RATIO FOR SA

Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N14	15	5	DFT-QPSK	L	Outer Full	5.68	≤13	PASS
N14	15	5	DFT-QPSK	L	Edge 1RB Left	5.13	≤13	PASS
N14	15	5	DFT-QPSK	M	Outer Full	5.30	≤13	PASS
N14	15	5	DFT-QPSK	M	Edge 1RB Left	5.24	≤13	PASS
N14	15	5	DFT-QPSK	H	Outer Full	5.56	≤13	PASS
N14	15	5	DFT-QPSK	H	Edge 1RB Left	5.19	≤13	PASS

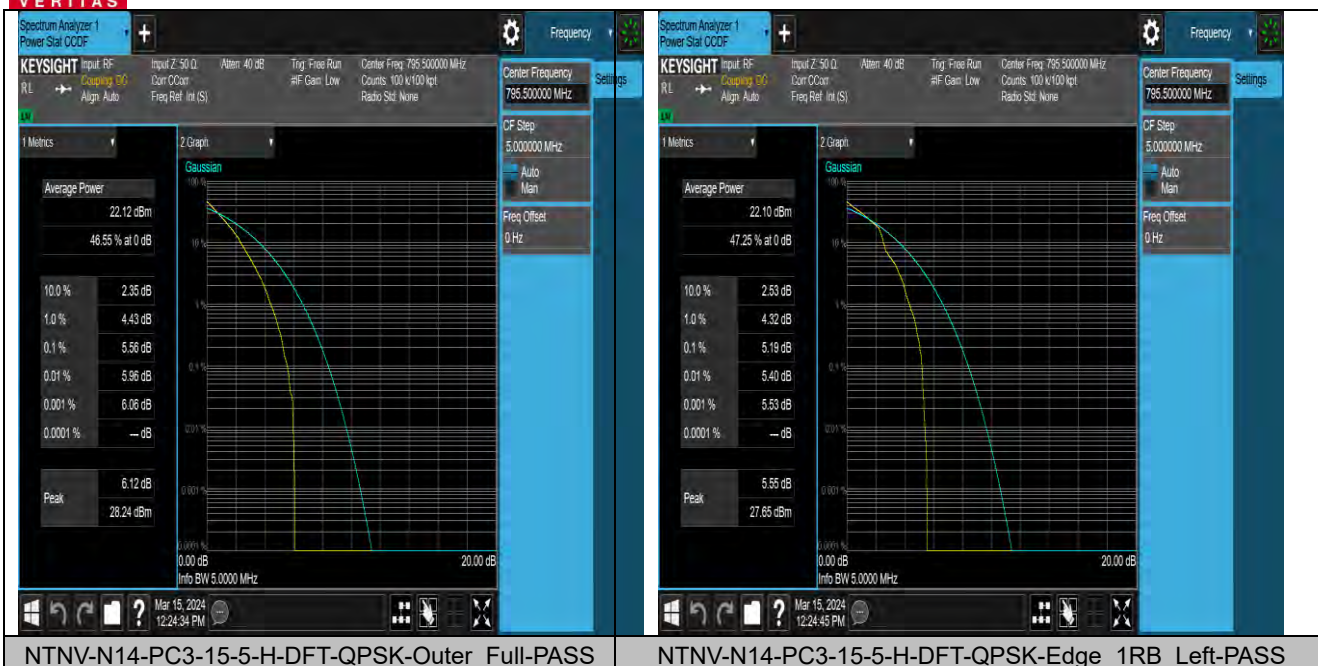
Test Graphs





Test Report No.: W7L-P23120020RF08

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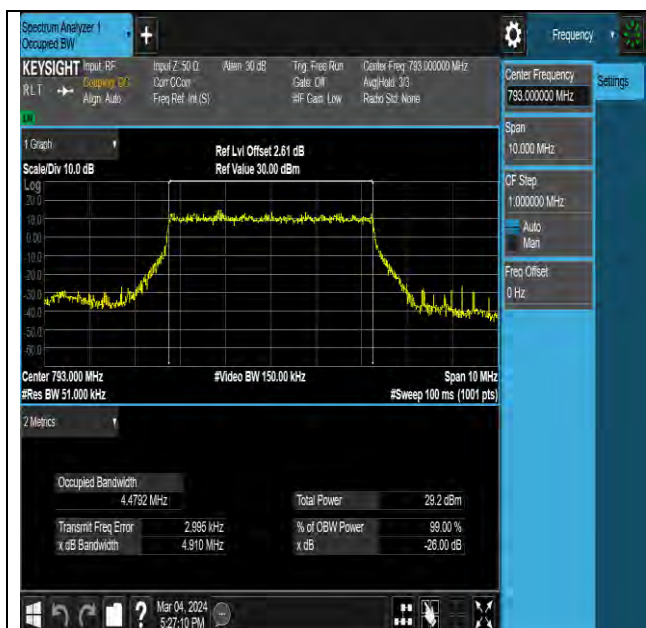


26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.4792	4.910	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	4.4691	4.913	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	4.4562	4.937	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	4.4819	4.996	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	4.4755	4.977	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	8.9004	9.658	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	8.9057	9.664	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	8.9056	9.518	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	8.8990	9.434	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	8.9083	9.426	PASS

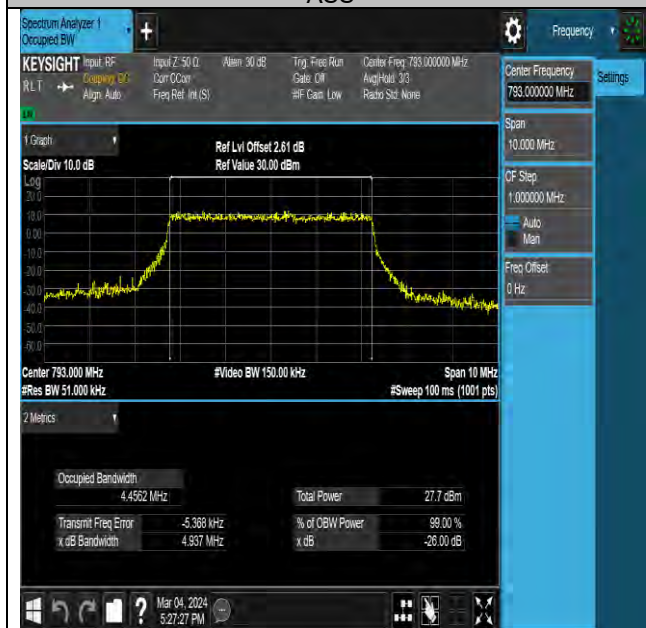
Test Graphs



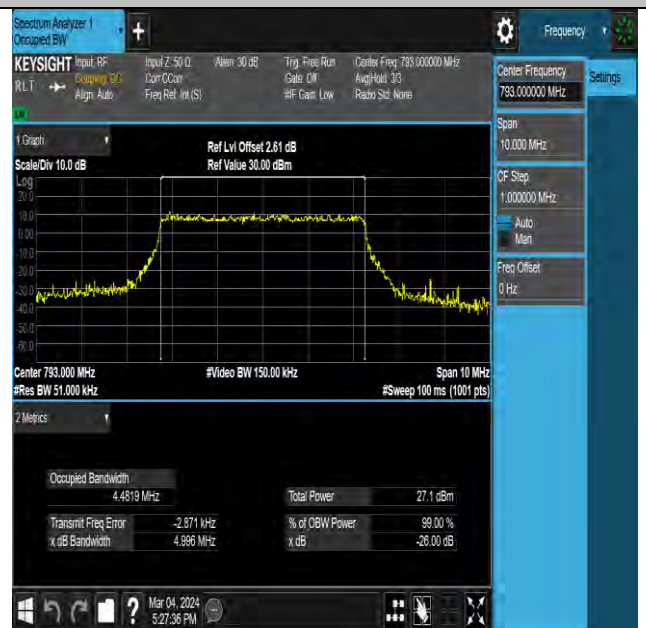
NTNV-N14-PC3-15-5-M-DFT-PI2BPSK-Outter_Full-Ant0-P
ASS



NTNV-N14-PC3-15-5-M-DFT-QPSK-Outter_Full-Ant0-PASS



NTNV-N14-PC3-15-5-M-DFT-16QAM-Outter_Full-Ant0-P
ASS

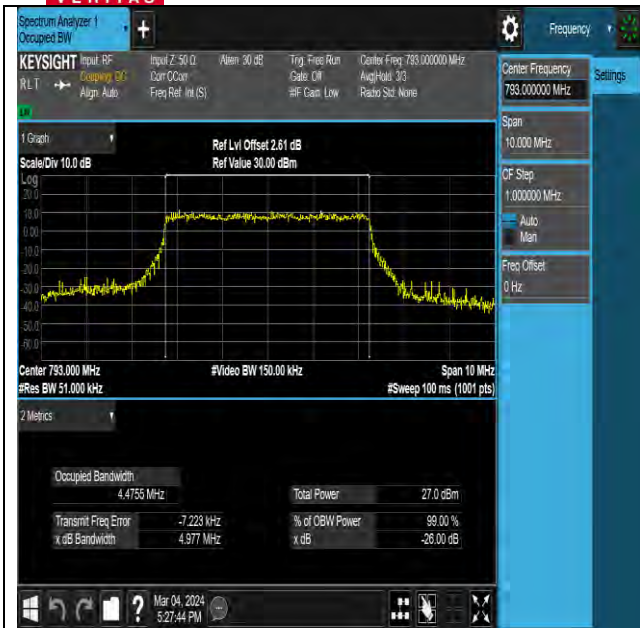


NTNV-N14-PC3-15-5-M-DFT-64QAM-Outter_Full-Ant0-PASS



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VERITAS

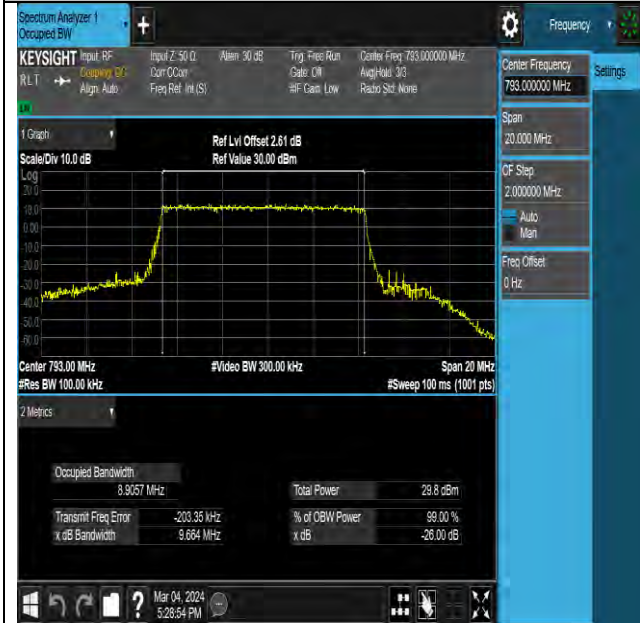
Test Report No.: W7L-P23120020RF08



NTNV-N14-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant0-P
ASS



NTNV-N14-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-Ant0-PAS
S



NTNV-N14-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant0-P
ASS



NTNV-N14-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant0-PASS

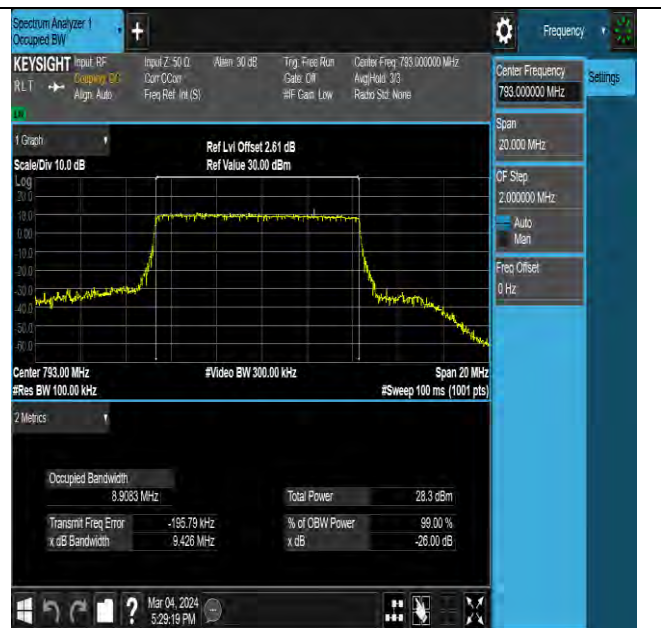


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Test Report No.: W7L-P23120020RF08



NTNV-N14-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant0-P
ASS



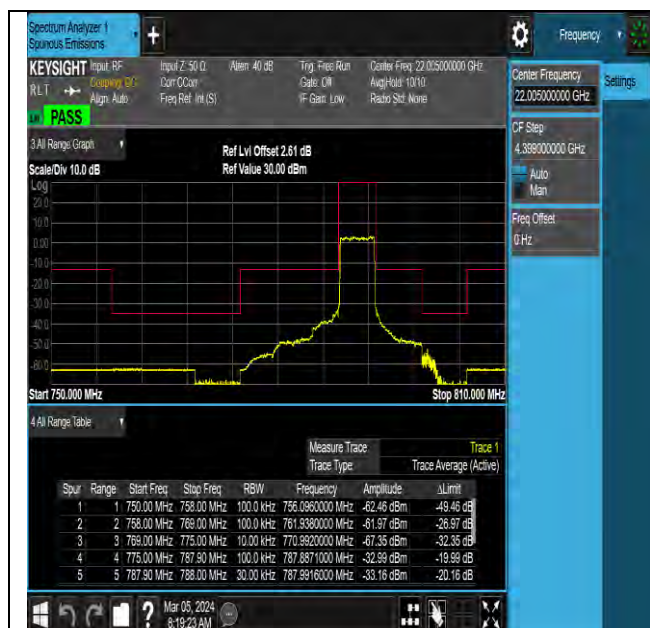
NTNV-N14-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant0-PAS
S

BAND EDGE FOR SA

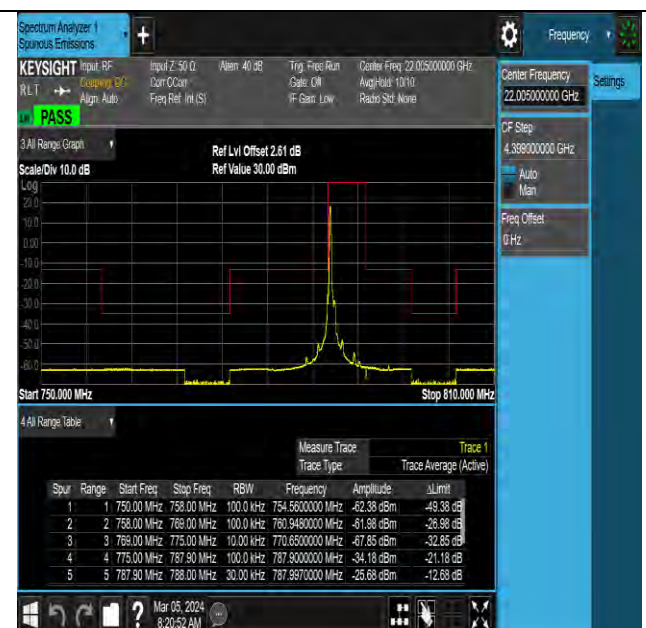
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N14	15	5	DFT-QPSK	L	Outer_Full	-52.67	PASS
N14	15	5	DFT-QPSK	L	Edge_1RB_Left	-25.68	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	-33.64	PASS
N14	15	5	DFT-QPSK	H	Edge_1RB_Right	-24.64	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	-50.20	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Left	-28.22	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Right	-26.89	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Right	-35.70	PASS

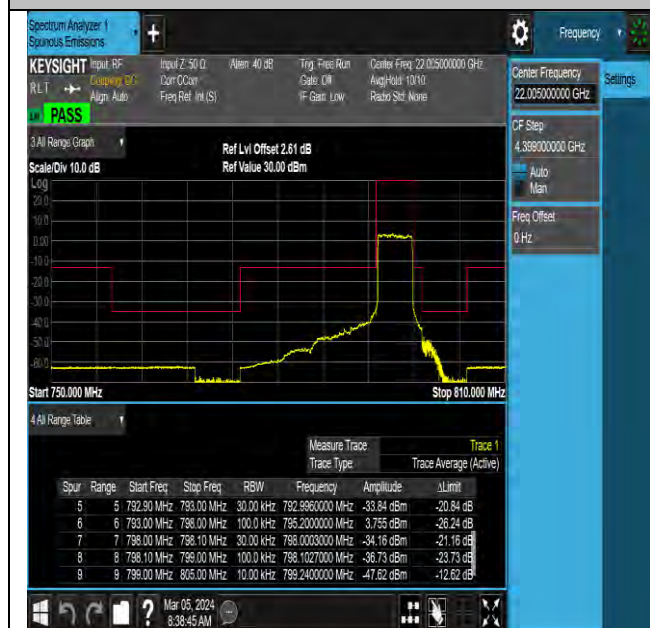
Test Graphs



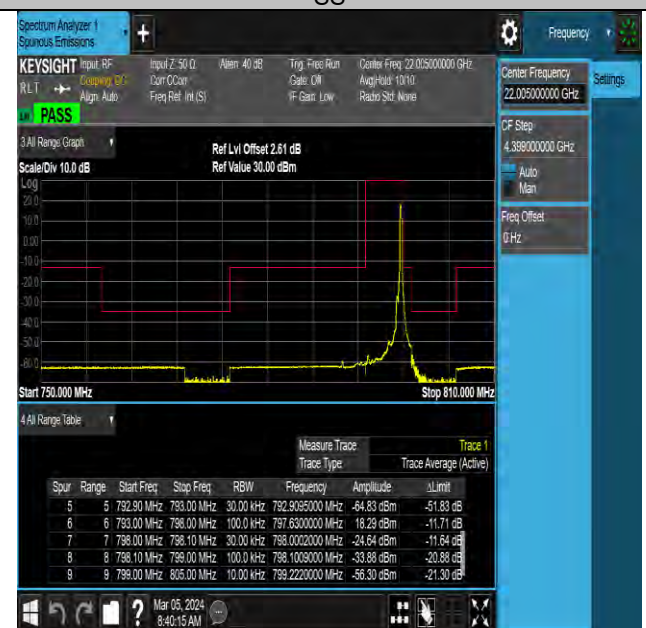
NTNV-N14-PC3-15-5-L-DFT-QPSK-Outer_Full-Ant0-PASS



NTNV-N14-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant0-PASS



NTNV-N14-PC3-15-5-H-DFT-QPSK-Outer_Full-Ant0-PASS

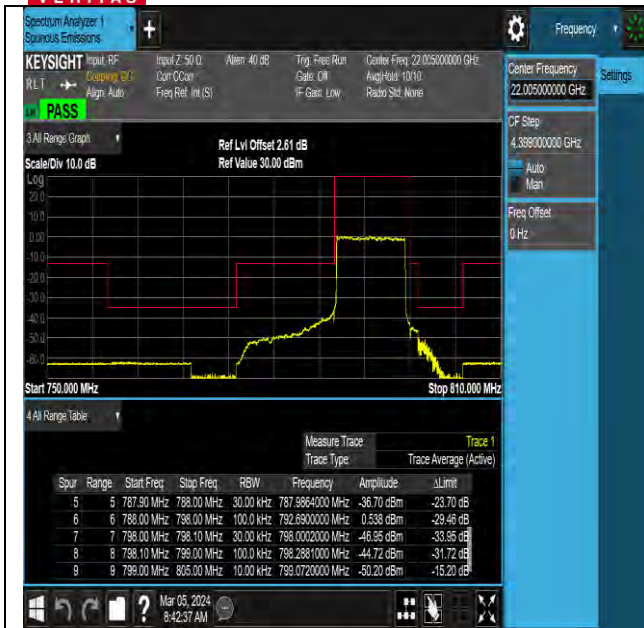


NTNV-N14-PC3-15-5-H-DFT-QPSK-Edge_1RB_Right-Ant0-PASS

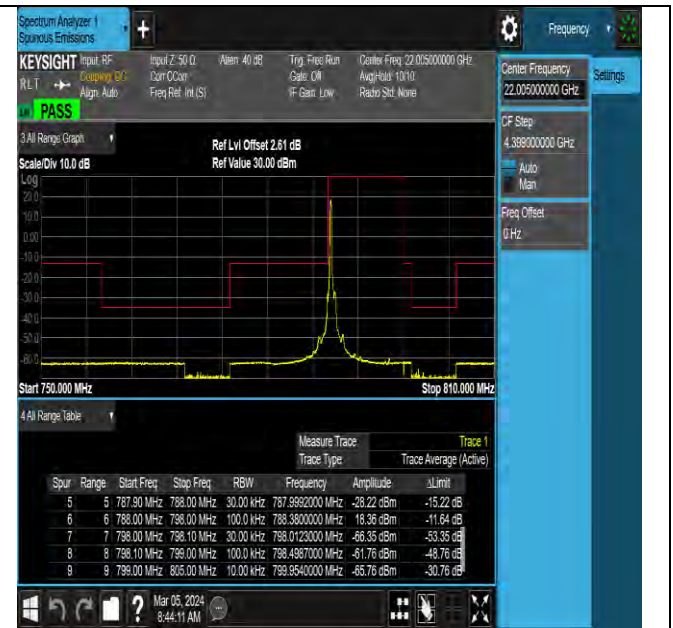


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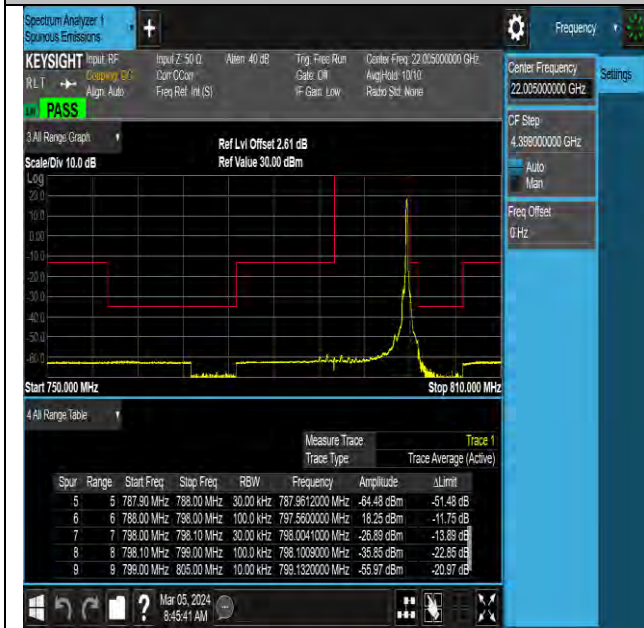
Test Report No.: W7L-P23120020RF08



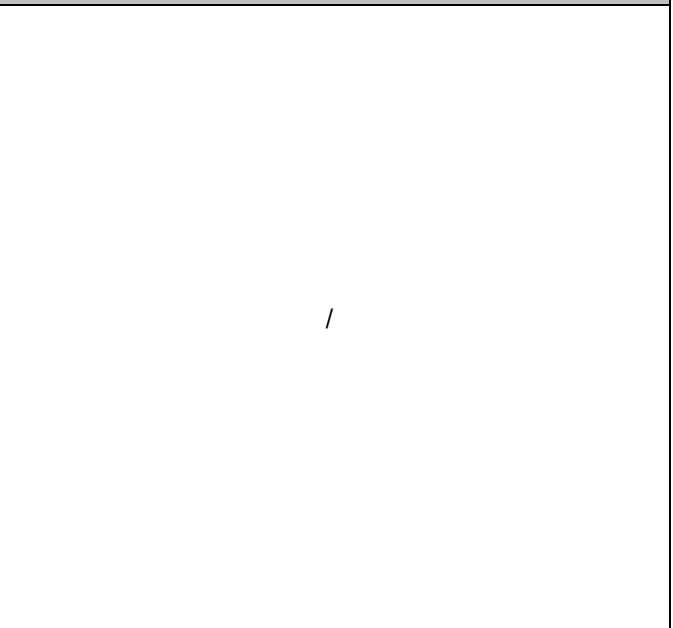
NTNV-N14-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant0-PAS
S



NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant0-
PASS



NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Right-An
t0-PASS



/



Test Report No.: W7L-P23120020RF08

CONDUCTED SPURIOUS EMISSION FOR SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N14	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-57.09	-13	PASS
N14	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	8500	-39.49	-13	PASS
N14	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-57.00	-13	PASS
N14	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	8500	-39.57	-13	PASS
N14	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-57.30	-13	PASS
N14	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	8500	-39.28	-13	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-57.14	-13	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	8500	-39.35	-13	PASS

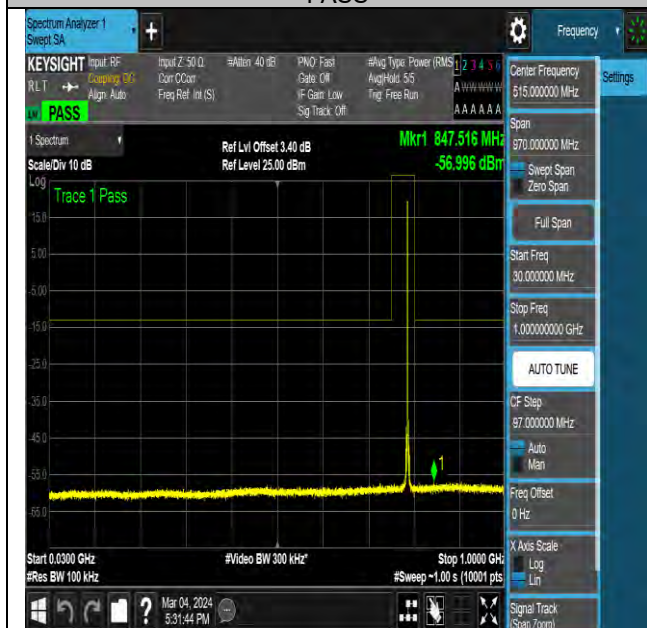
Test Graphs



NTNV-N14-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant0-PASS



NTNV-N14-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant0-PASS



NTNV-N14-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-Ant0-PASS



NTNV-N14-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-Ant0-PASS



BUREAU
VERITAS

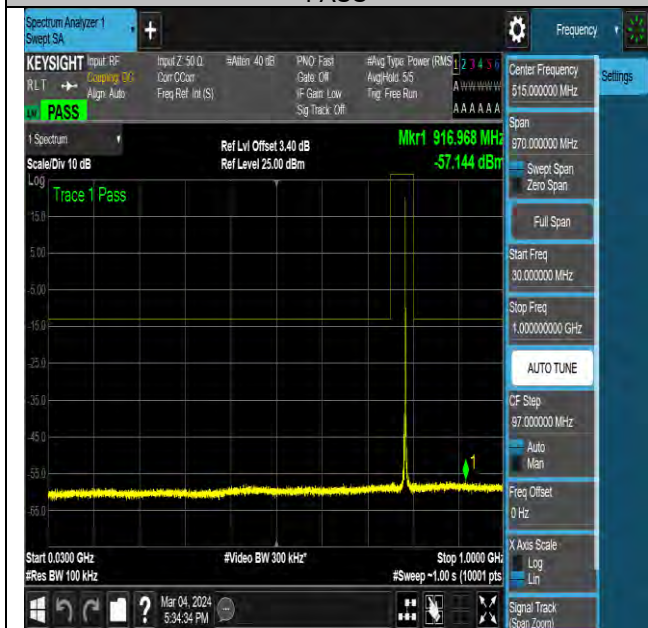
Test Report No.: W7L-P23120020RF08



NTNV-N14-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant0-
PASS



NTNV-N14-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant0-
PASS



NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant0
-PASS



NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant0
-PASS

FREQUENCY STABILITY FOR SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	5	DFT-QPSK	L	Outer_Full	VL	NT	12.000000	0.015180	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	VN	NT	18.000000	0.022770	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	VH	NT	8.000000	0.010120	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	VL	NT	1.000000	0.001261	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	VN	NT	17.000000	0.021438	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	VH	NT	11.000000	0.013871	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	VL	NT	16.000000	0.020113	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	VN	NT	18.000000	0.022627	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	VH	NT	5.000000	0.006285	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	5	DFT-QPSK	L	Outer_Full	NV	-30	11.000000	0.013915	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	-20	11.000000	0.013915	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	-10	14.000000	0.017710	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	0	11.000000	0.013915	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	10	2.000000	0.002530	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	20	18.000000	0.022770	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	30	15.000000	0.018975	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	40	9.000000	0.011385	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	50	11.000000	0.013915	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	-30	14.000000	0.017654	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	-20	7.000000	0.008827	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	-10	17.000000	0.021438	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	0	2.000000	0.002522	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	10	18.000000	0.022699	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	20	15.000000	0.018916	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	30	18.000000	0.022699	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	40	15.000000	0.018916	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	50	2.000000	0.002522	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	-30	18.000000	0.022627	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	-20	11.000000	0.013828	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	-10	2.000000	0.002514	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	0	14.000000	0.017599	PASS



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N14	15	5	DFT-QPSK	H	Outer Full	NV	10	5.000000	0.006285	PASS
N14	15	5	DFT-QPSK	H	Outer Full	NV	20	14.000000	0.017599	PASS
N14	15	5	DFT-QPSK	H	Outer Full	NV	30	1.000000	0.001257	PASS
N14	15	5	DFT-QPSK	H	Outer Full	NV	40	14.000000	0.017599	PASS
N14	15	5	DFT-QPSK	H	Outer Full	NV	50	4.000000	0.005028	PASS

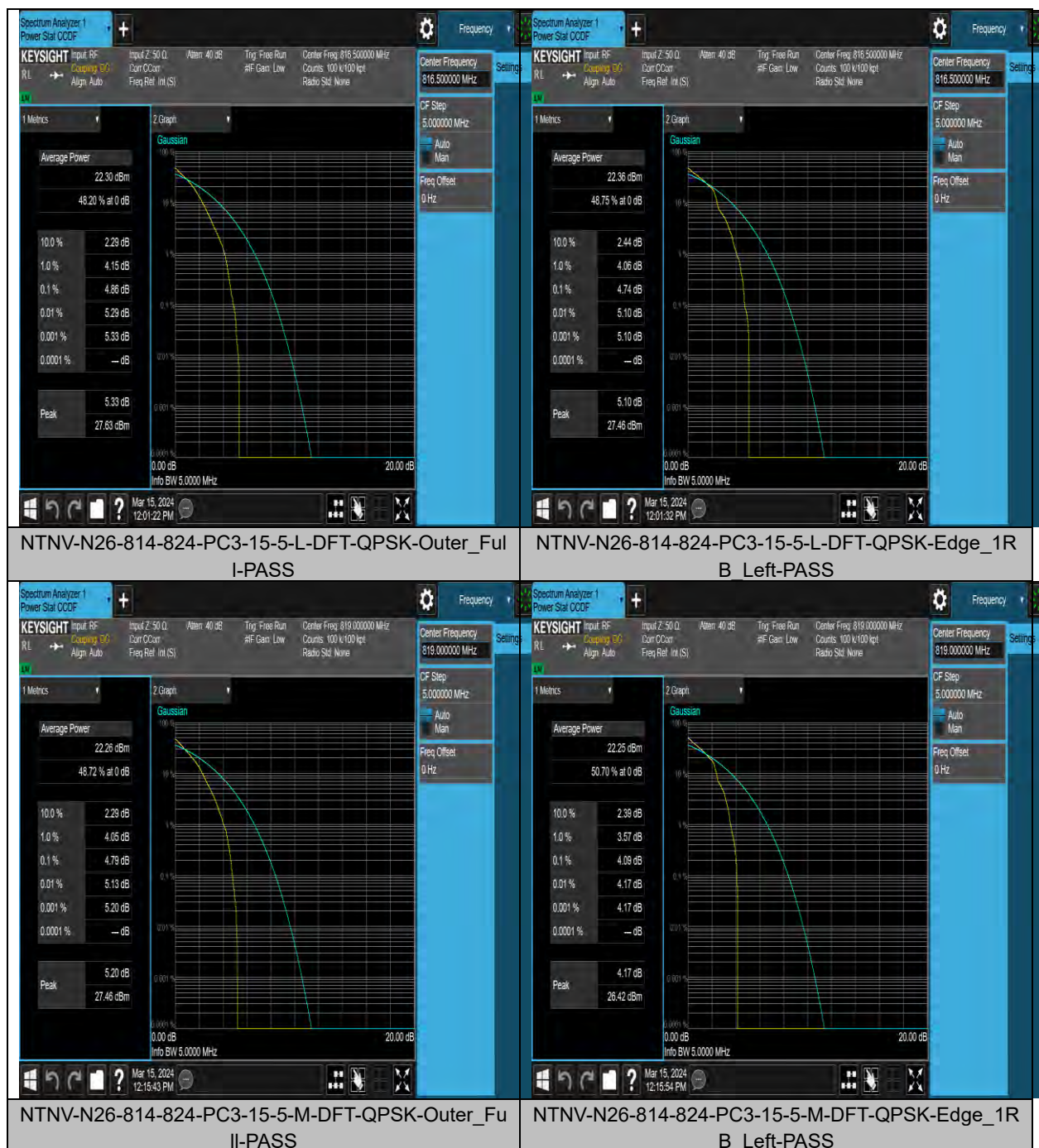
N26_814-824

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N26-814-8 24	15	5	DFT-QPSK	L	Outer_Full	4.86	≤13	PASS
N26-814-8 24	15	5	DFT-QPSK	L	Edge_1RB_Left	4.74	≤13	PASS
N26-814-8 24	15	5	DFT-QPSK	M	Outer_Full	4.79	≤13	PASS
N26-814-8 24	15	5	DFT-QPSK	M	Edge_1RB_Left	4.09	≤13	PASS
N26-814-8 24	15	5	DFT-QPSK	H	Outer_Full	5.11	≤13	PASS
N26-814-8 24	15	5	DFT-QPSK	H	Edge_1RB_Left	4.32	≤13	PASS

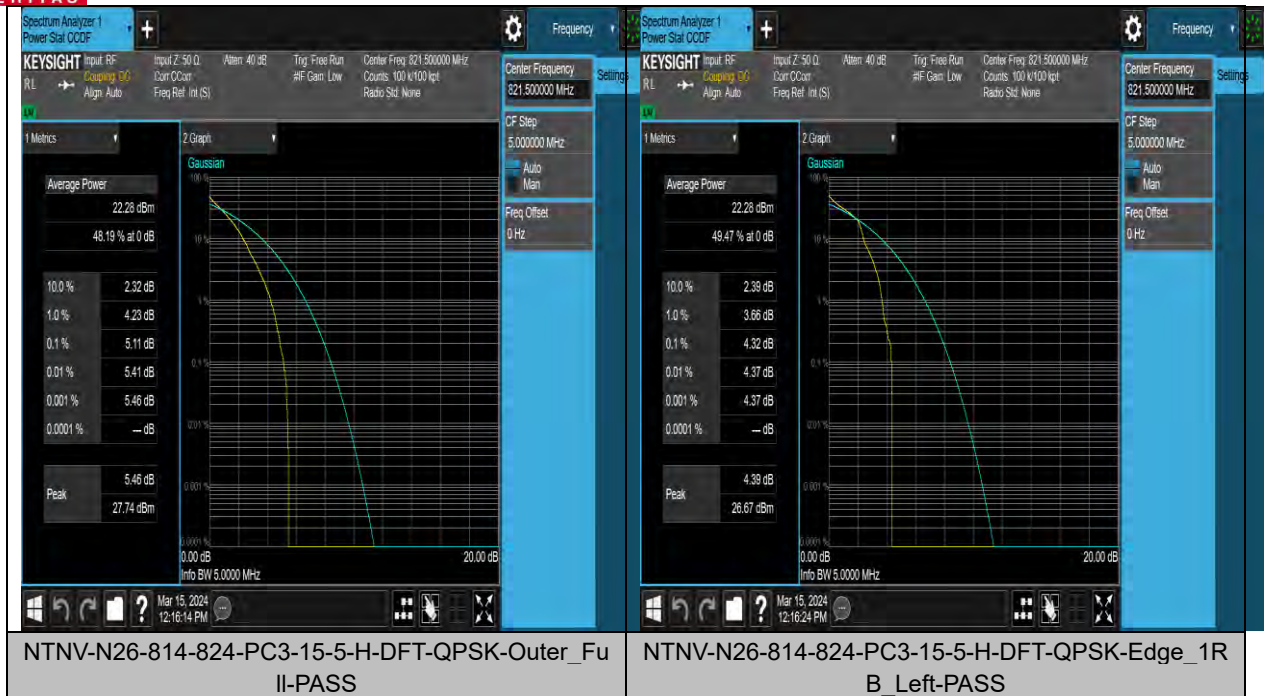
Test Graphs





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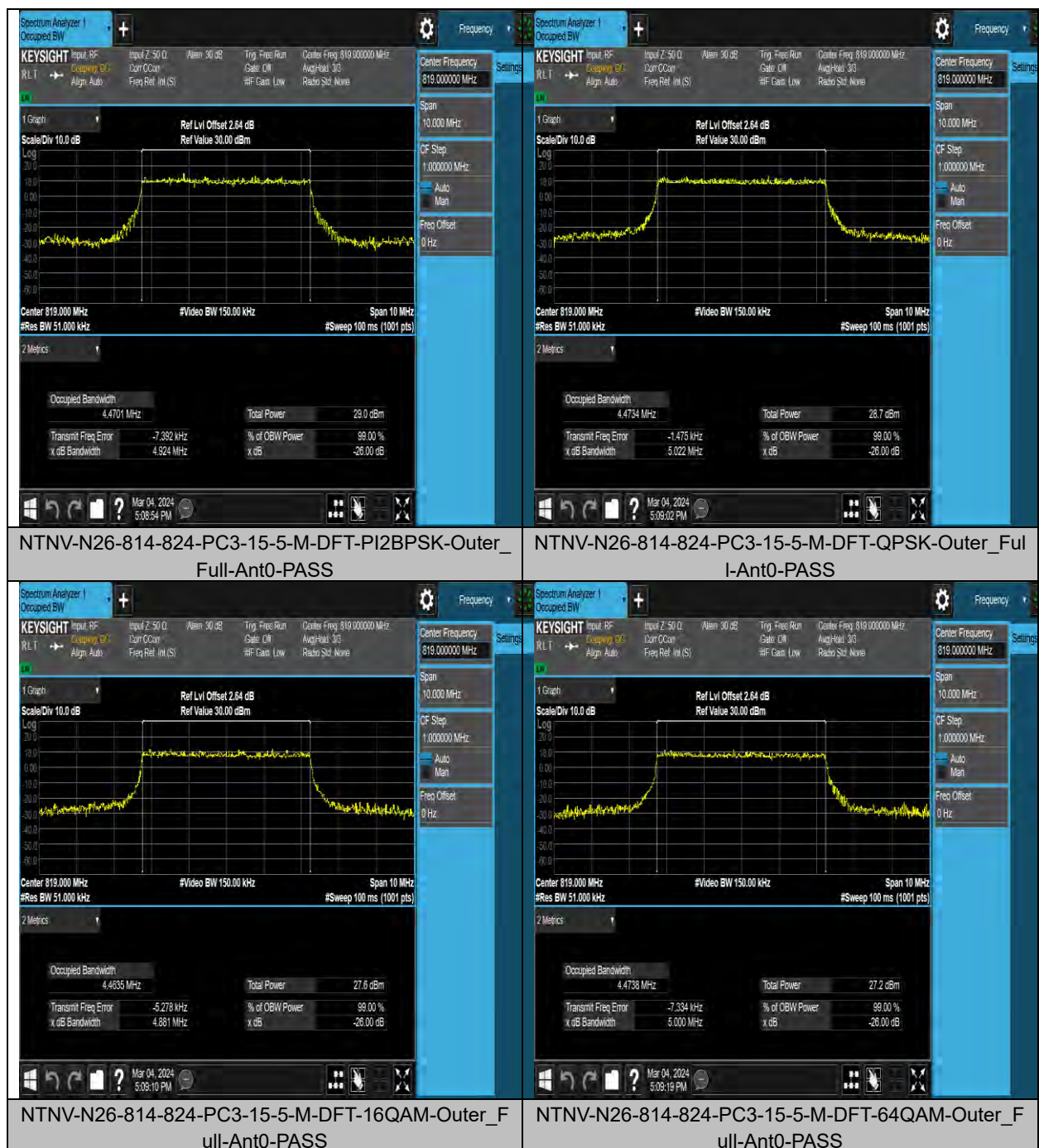


26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	4.4701	4.924	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	4.4734	5.022	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	4.4635	4.881	PASS
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	4.4738	5.000	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	4.4666	5.029	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	8.9095	9.619	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	8.9035	9.620	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	8.9112	9.572	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	8.9058	9.639	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.9004	9.450	PASS

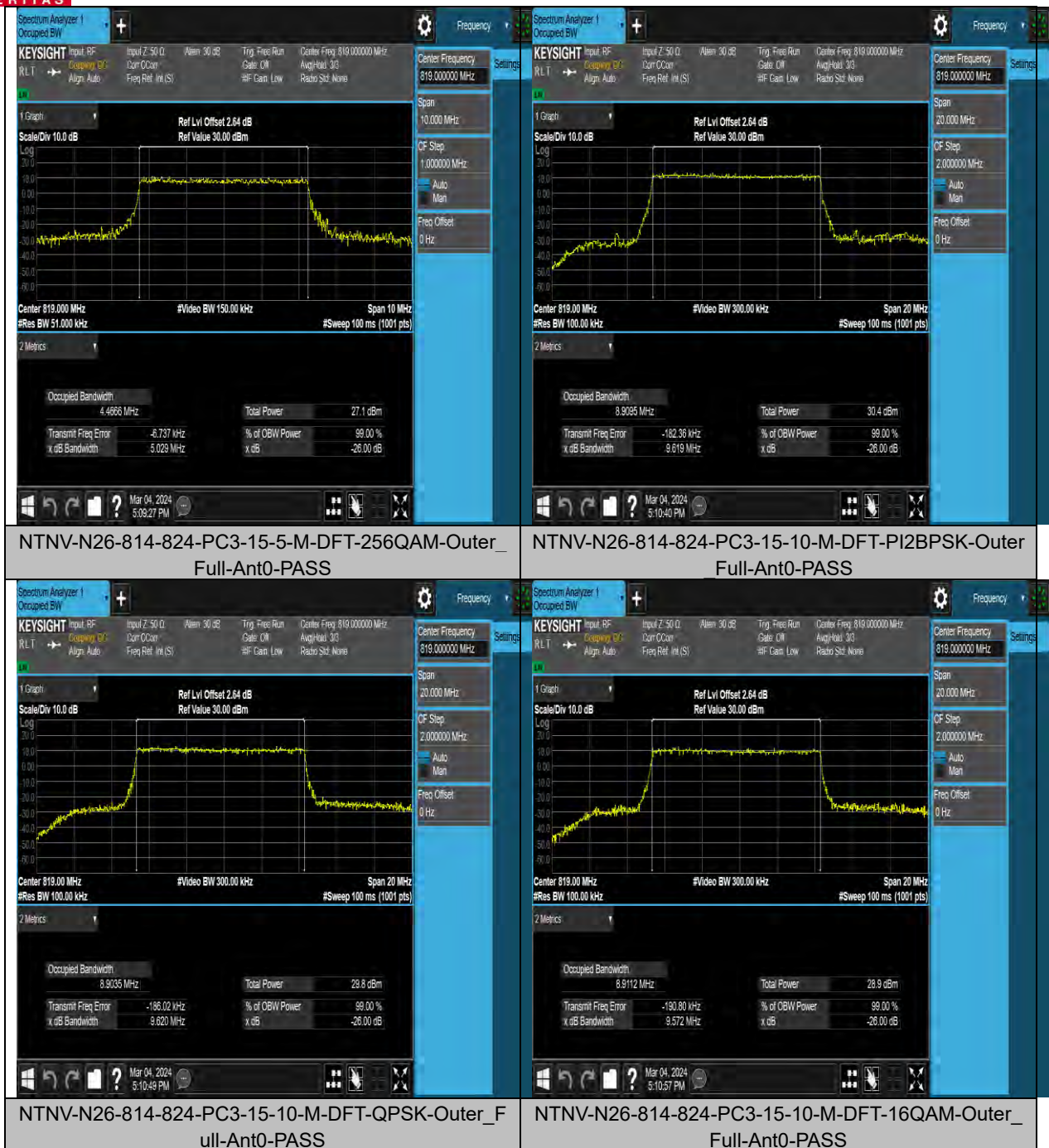
Test Graphs





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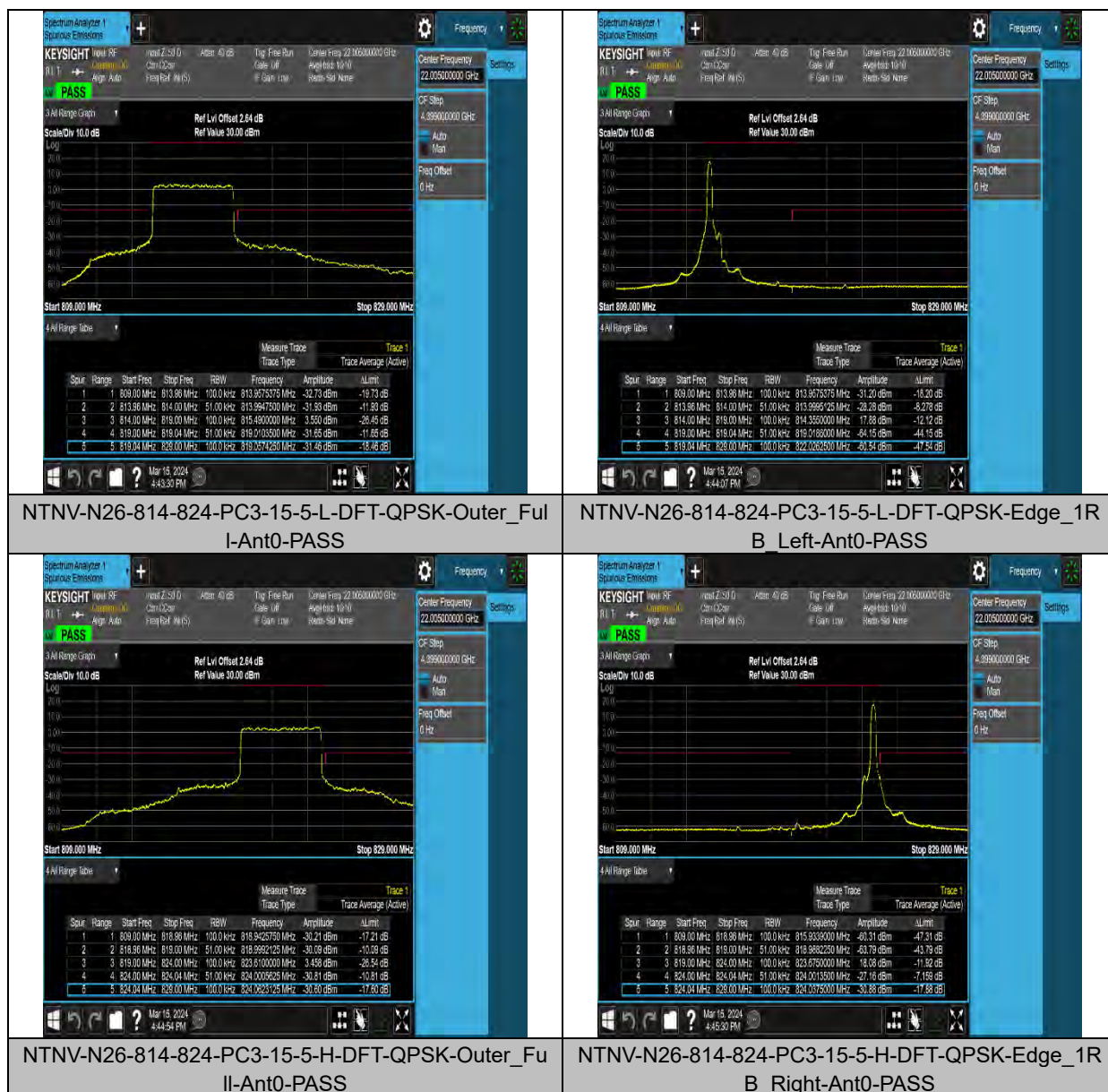


BAND EDGE FOR SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N26-814-8 24	15	5	DFT-QPSK	L	Outer_Full	-31.65	PASS
N26-814-8 24	15	5	DFT-QPSK	L	Edge_1RB_Left	-28.28	PASS
N26-814-8 24	15	5	DFT-QPSK	H	Outer_Full	-30.09	PASS
N26-814-8 24	15	5	DFT-QPSK	H	Edge_1RB_Right	-27.16	PASS
N26-814-8 24	15	10	DFT-QPSK	M	Outer_Full	-34.29	PASS
N26-814-8 24	15	10	DFT-QPSK	M	Edge_1RB_Left	-30.72	PASS
N26-814-8 24	15	10	DFT-QPSK	M	Edge_1RB_Right	-32.15	PASS

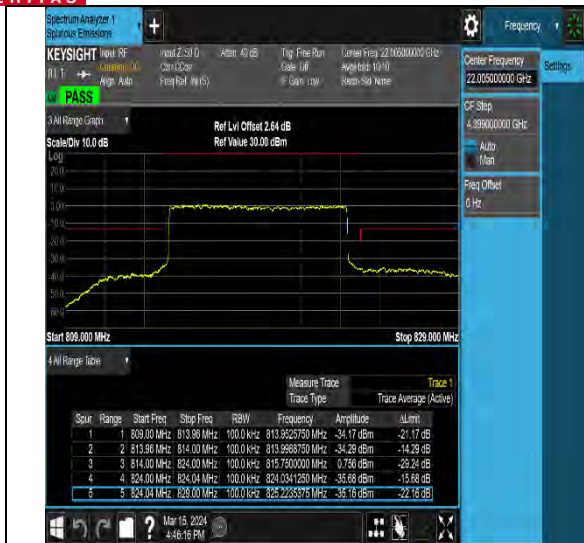
Test Graphs



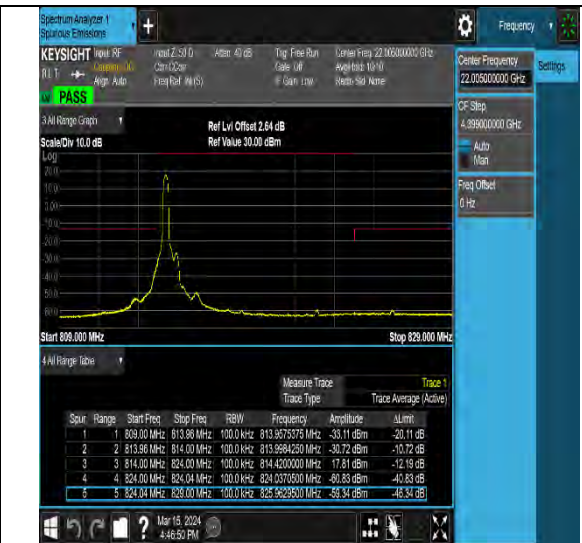


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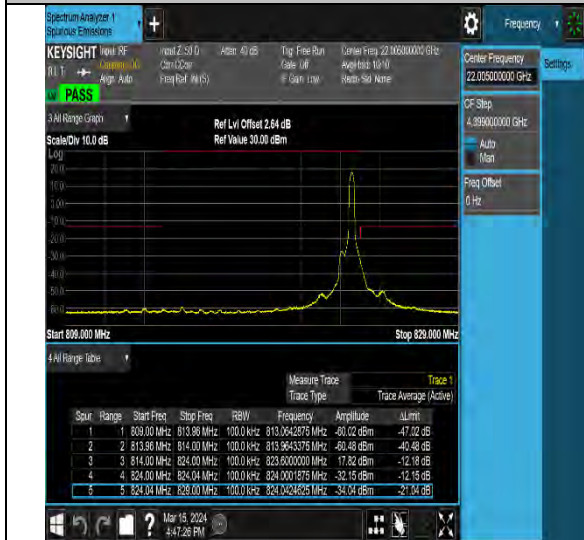
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NTNV-N26-814-824-PC3-15-10-M-DFT-QPSK-Outer_F
ull-Ant0-PASS



NTNV-N26-814-824-PC3-15-10-M-DFT-QPSK-Edge_1
RB_Left-Ant0-PASS



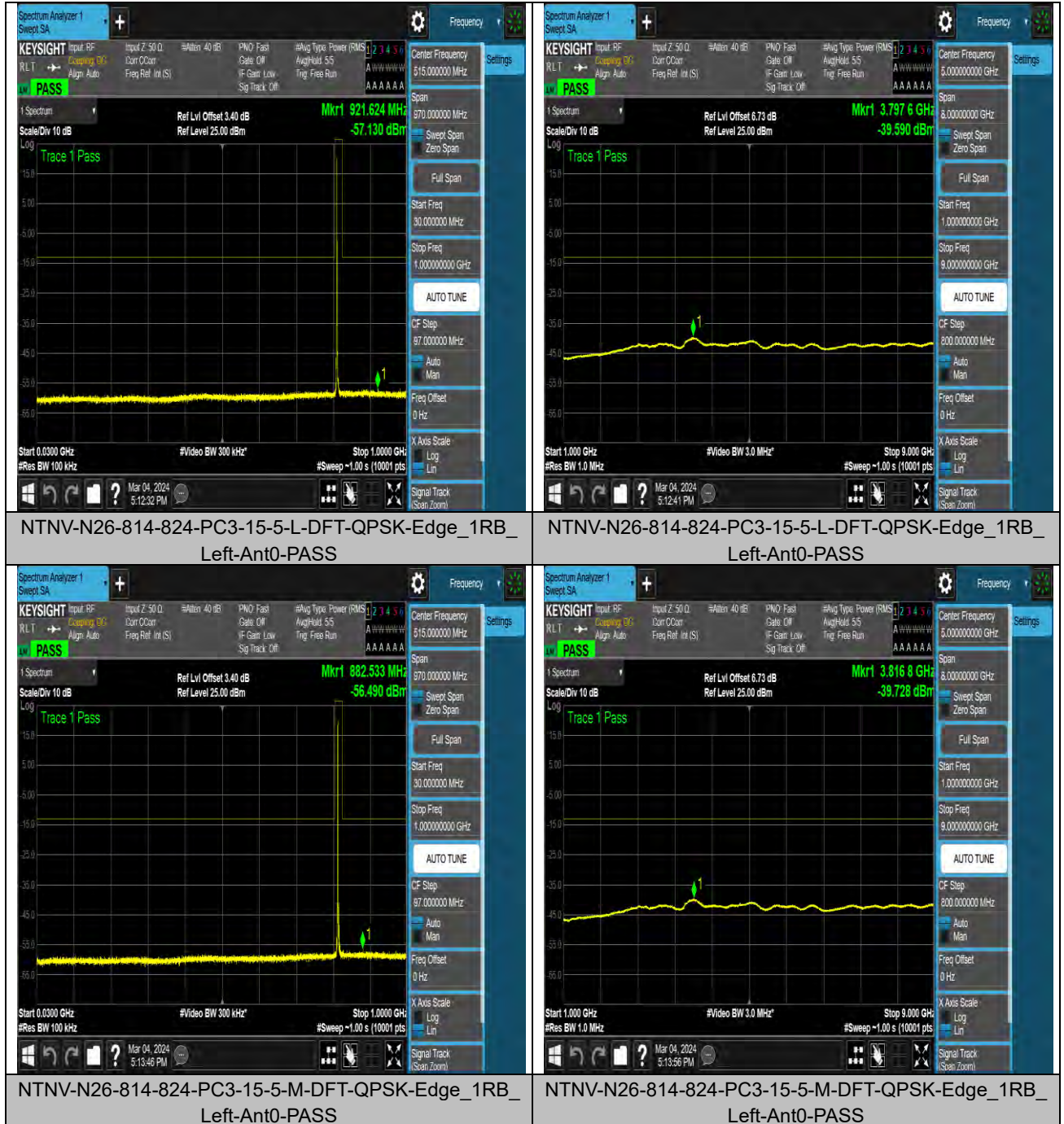
NTNV-N26-814-824-PC3-15-10-M-DFT-QPSK-Edge_1
RB_Right-Ant0-PASS

CONDUCTED SPURIOUS EMISSION FOR SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N26-8 14-824	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-57.13	-13	PASS
N26-8 14-824	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	9000	-39.59	-13	PASS
N26-8 14-824	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-56.49	-13	PASS
N26-8 14-824	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	9000	-39.73	-13	PASS
N26-8 14-824	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-56.84	-13	PASS
N26-8 14-824	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	9000	-39.70	-13	PASS
N26-8 14-824	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-57.23	-13	PASS
N26-8 14-824	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	9000	-39.56	-13	PASS

Test Graphs





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NTNV-N26-814-824-PC3-15-5-H-DFT-QPSK-Edge_1RB
Left-Ant0-PASS



NTNV-N26-814-824-PC3-15-5-H-DFT-QPSK-Edge_1RB
Left-Ant0-PASS



NTNV-N26-814-824-PC3-15-10-M-DFT-QPSK-Edge_1RB
Left-Ant0-PASS



NTNV-N26-814-824-PC3-15-10-M-DFT-QPSK-Edge_1RB
Left-Ant0-PASS

FREQUENCY STABILITY FOR SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	VL	NT	9.000000	0.011023	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	VN	NT	3.000000	0.003674	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	VH	NT	13.000000	0.015922	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	VL	NT	14.000000	0.017094	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	VN	NT	14.000000	0.017094	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	VH	NT	17.000000	0.020757	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	VL	NT	10.000000	0.012173	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	VN	NT	3.000000	0.003652	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	VH	NT	13.000000	0.015825	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	-30	10.000000	0.012247	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	-20	19.000000	0.023270	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	-10	17.000000	0.020821	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	0	3.000000	0.003674	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	10	6.000000	0.007348	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	20	19.000000	0.023270	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	30	9.000000	0.011023	PASS
N26-814-	15	5	DFT-QPSK	L	Outer_Full	NV	40	9.000000	0.011023	PASS



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VERITAS**

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824										
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	NV	50	19.000000	0.023270	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	-30	11.000000	0.013431	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	-20	1.000000	0.001221	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	-10	17.000000	0.020757	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	0	15.000000	0.018315	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	10	5.000000	0.006105	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	20	15.000000	0.018315	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	30	8.000000	0.009768	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	40	2.000000	0.002442	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	NV	50	11.000000	0.013431	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	-30	15.000000	0.018259	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	-20	16.000000	0.019477	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	-10	18.000000	0.021911	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	0	12.000000	0.014607	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	10	2.000000	0.002435	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	20	12.000000	0.014607	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	30	12.000000	0.014607	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	40	3.000000	0.003652	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	NV	50	12.000000	0.014607	PASS

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