

FCC TEST REPORT

(PART 22)

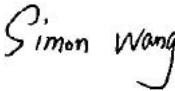
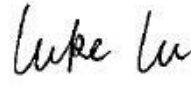
Applicant:	CPSpeed CO.,LTD.
Address:	3505 stLuke's Tower,8-1 Akashi-cho, Chuo-ku, Tokyo 104-0044

Manufacturer or Supplier:	MeiG Smart Technology Co., Ltd
Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Product:	Speed Wi-Fi DOCK 5G 01
Brand Name:	CPSpeed
Model Name:	CPS01
FCC ID:	2BMKV-CPS01
Date of tests:	Nov. 12, 2024~Dec. 12, 2024

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

- | | |
|--|--|
| ☒ FCC PART 22, Subpart H | ☒ FCC Part 2 |
| ☒ ANSI/TIA/EIA-603-D | ☒ ANSI C63.26-2015 |
| ☒ ANSI/TIA/EIA-603-E | |

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: Dec. 12, 2024	Date: Dec. 12, 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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Test Report No.: W7L-P24090006RF04

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24090006RF04	Original release	Dec. 12, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	Compliance
§22.913 (a)(5)	Effective Radiated Power	Compliance
§2.1055 §22.355	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§22.913 (d)	Peak to average ratio*	Compliance
§22.917(a)	Band Edge Measurements	Compliance
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

NOTE: The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and 16QAM were observed as the worst mode to LTE bands respectively and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations, and tests other than output power are performed only in worse-case QPSK and 16QAM modulations.

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. is 525120; The Designation No. is CN1171.

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	$\pm 2.06\text{dB}$
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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. 27,24	Mar. 26,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.01,24	Aut.31,25
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 17,24	Feb. 16,25
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.02, 24	Sep.01, 25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 13,24	Feb. 12,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 05,24	May. 04,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,24	May.08,25
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. 05,24	May. 04,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 13,24	Feb. 12,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 13,24	Feb. 12,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 05,24	May. 04,25
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 13,24	Feb. 12,25
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.09,24	May.08,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 10,24	Aug. 09,25
Power Divider	COM-MW	ZPD8-2M0-40G-1 942	04223131	Oct.08.24	Oct.07.25

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 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.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Speed Wi-Fi DOCK 5G 01	
BRAND NAME	CPSpeed	
MODEL NAME	CPS01	
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.85Vdc (Li-ion, battery)	
MODULATION TYPE	WCDMA	QPSK,16QAM
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	WCDMA B5	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
MAX. ERP POWER	WCDMA B5	173.78mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	143.88mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	143.22mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	143.55mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	144.54mW
EMISSION DESIGNATORGOGN	WCDMA B5	4M14F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M11G7D
		16QAM: 1M11W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M71G7D
		16QAM: 2M71W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M53G7D
		16QAM: 4M52W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 9M02G7D
		16QAM: 9M03W7D
ANTENNA TYPE	Ant 0: IFA/Monopole Antenna with 0.6dBi gain for WCDMA V/LTE B5	
HW VERSION	CPS01_V1.03	



SW VERSION	CPS01_D.0.5_EQ101
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A
EXTREME TEMPERATURE	0-35 °C
EXTREME VOLTAGE	3.6V - 4.3V

NOTE:

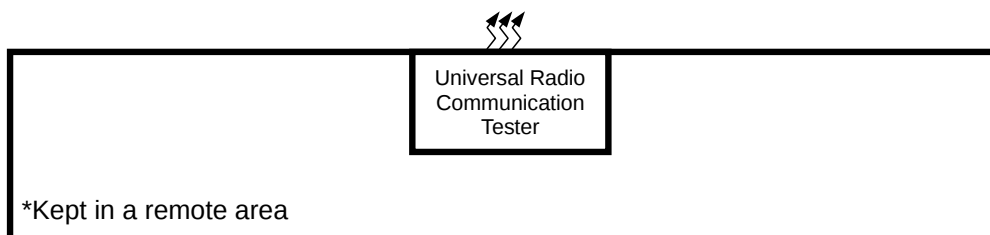
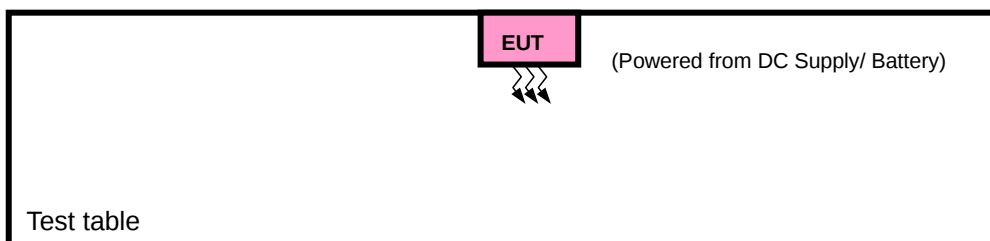
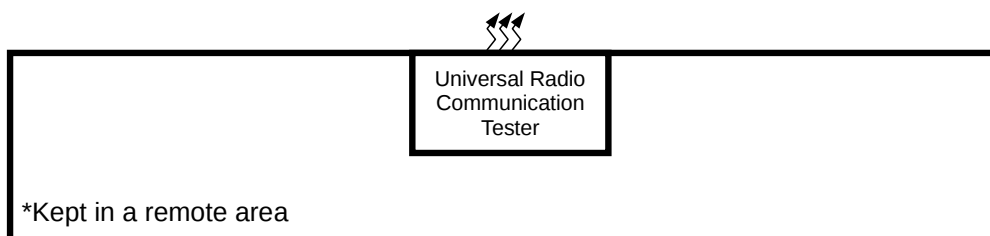
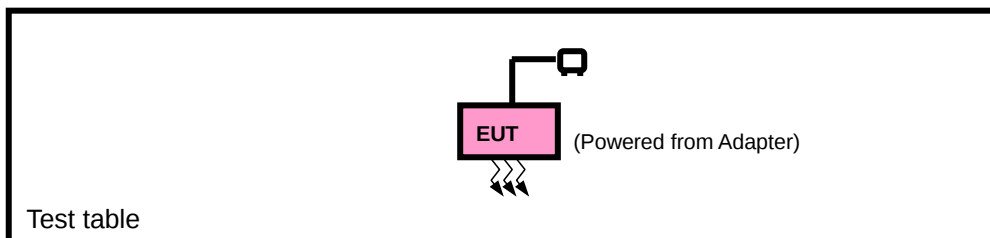
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
WCDMA	1TX/2RX
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.
- Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. And tests other than output power are performed only in worst-case QPSK and 16QAM modes.
- List of Accessory:**

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
LCD Panel 1	ZZW	Shenzhen Zoneway Technology Co., Ltd	ZZW240QBS-1499A	N/A
LCD Panel 2	Rouxian	Chongqing Rouxian Intelligent Technology Co., Ltd	24JS1199-QT	N/A
LCD Panel 3	Yiou	Hubei Yiou Electronics Co., Ltd.	TBD	N/A
Battery 1	BYD	Shenzhen BYD Lithium Battery Company Limited	CPS01-CSL345683	Capacity: 5400mAh
Battery 2	ATL	Dongguan Amperex Technology Limited	CPS01-345683	Capacity: 5400mAh
AC Adapter 1	N/A	N/A	N/A	I/P: 100-240Vac, 500mA, 50-60Hz, O/P: 5 Vdc, 2.5A (Normal charge) O/P: 9Vdc, 1.7A or 12Vdc, 1.25A (Fast Charge)
AC Adapter 2	N/A	N/A	N/A	I/P: 100-240Vac, 500mA, 50-60Hz, O/P: 5 Vdc, 2.5A (Normal charge) O/P: 9Vdc, 1.7A or 12Vdc, 1.25A (Fast Charge)

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



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	N/A

2.4 TEST ITEM AND TEST CONFIGURATION

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

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

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
B	FREQUENCY STABILITY	4132 to 4233	4132, 4182, 4233	WCDMA
A	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
A	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
A	CONDUCTED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	PEAK TO AVERAGE RATIO	4132 to 4233	4132, 4182, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	Full RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	Full RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	Full RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	Full RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	Full RB / 0 RB Offset
A	BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK,16QAM	1 RB / 0 RB Offset
						Full RB / 0 RB Offset
		20407 to 20643	20643	1.4 MHz	QPSK,16QAM	1 RB / 5 RB Offset
						Full RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK,16QAM	1 RB / 0 RB Offset
						Full RB / 0 RB Offset
		20415 to 20635	20635	3 MHz	QPSK,16QAM	1 RB / 14 RB Offset
						Full RB / 0 RB Offset
		20425 to 20625	20425	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
						Full RB / 0 RB Offset
		20425 to 20625	20625	5MHz	QPSK,16QAM	1 RB / 24 RB Offset
						Full RB / 0 RB Offset
		20450 to 20600	20450	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
						Full RB / 0 RB Offset
		20450 to 20600	20600	10MHz	QPSK,16QAM	1 RB / 49 RB Offset
						Full RB / 0 RB Offset
A	CONDCUETED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB / 0 RB Offset



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A	RADIATED EMISSION	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
		20415 to 20635	20525	3MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20525	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450,20525,20600	10MHz	QPSK	1 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	1 RB / 0 RB Offset Full 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. Output power measurements were measured on QPSK,16QAM and 64QAM modulations. And tests other than output power are performed only in worst-case QPSK and 16QAM modes.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.85V By Battery	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC5V By Adapter	James Fu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency



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2.6 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 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

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

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

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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

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.

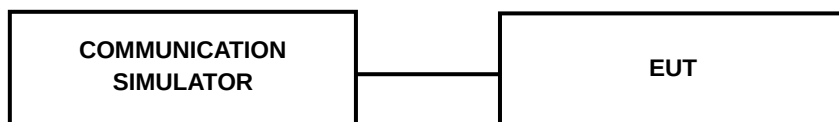
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA 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

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.72	23.79	23.95
HSDPA Subtest-1	22.70	22.74	22.87
HSDPA Subtest-2	22.63	22.70	22.88
HSDPA Subtest-3	22.25	22.22	22.31
HSDPA Subtest-4	22.29	22.19	22.34
DC-HSDPA Subtest-1	22.69	22.77	22.86
DC-HSDPA Subtest-2	22.70	22.68	22.86
DC-HSDPA Subtest-3	22.21	22.18	22.36
DC-HSDPA Subtest-4	22.22	22.26	22.23
HSUPA Subtest-1	22.74	22.80	22.98
HSUPA Subtest-2	20.70	20.77	20.89
HSUPA Subtest-3	21.76	21.79	21.94
HSUPA Subtest-4	20.70	20.73	21.04
HSUPA Subtest-5	22.75	22.78	22.96



LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
5/ 1.4	QPSK	1	0	22.72	23.02	22.95
		1	2	23.13	23.07	23.10
		1	5	22.56	22.76	22.93
		3	0	22.71	22.74	23.13
		3	1	23.12	23.02	23.09
		3	3	22.76	22.83	23.05
		6	0	21.78	21.99	22.01
	16QAM	1	0	22.06	22.20	22.00
		1	2	21.86	22.27	22.15
		1	5	21.85	21.87	21.94
		3	0	21.91	21.96	22.08
		3	1	22.17	22.06	22.07
		3	3	21.97	21.71	22.03
		6	0	20.70	20.99	21.13
	64QAM	1	0	21.16	21.06	21.39
		1	2	21.01	21.30	21.26
		1	5	20.67	21.05	20.90
		3	0	21.08	20.96	21.22
		3	1	21.03	20.89	21.09
		3	3	20.88	21.01	20.87
		6	0	19.95	19.97	20.07



Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
5/ 3	QPSK	1	0	23.00	22.78	22.95
		1	7	22.93	23.06	23.11
		1	14	22.66	22.58	22.79
		8	0	21.73	21.98	22.02
		8	3	21.94	22.04	21.99
		8	7	21.77	21.78	22.12
		15	0	21.99	21.94	21.88
	16QAM	1	0	21.88	22.09	22.20
		1	7	22.18	22.11	22.31
		1	14	22.16	21.76	22.17
		8	0	20.90	21.11	21.10
		8	3	21.34	21.07	21.14
		8	7	20.91	20.84	20.91
		15	0	21.06	20.77	21.01
	64QAM	1	0	21.28	20.98	21.35
		1	7	21.13	21.42	21.19
		1	14	20.83	20.93	20.89
		8	0	20.26	20.08	19.89
		8	3	19.89	19.99	20.29
		8	7	19.83	20.15	19.86
		15	0	20.03	20.25	20.04

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
5 / 5	QPSK	1	0	22.94	22.77	22.87
		1	12	23.08	22.84	23.12
		1	24	22.92	22.57	22.67
		12	0	22.05	21.88	22.08
		12	6	22.01	21.98	22.08
		12	13	21.71	21.84	22.11
		25	0	21.68	22.03	22.00
	16QAM	1	0	22.11	22.08	22.20
		1	12	22.15	22.30	22.20
		1	24	21.94	21.93	21.82
		12	0	20.85	21.19	20.90
		12	6	21.05	20.95	20.98
		12	13	21.17	20.87	21.17
		25	0	20.89	20.89	21.13
	64QAM	1	0	21.23	21.24	21.35
		1	12	21.10	21.45	21.26
		1	24	20.75	21.23	20.90
		12	0	20.05	20.17	20.15
		12	6	19.96	20.12	20.29
		12	13	20.04	19.85	20.15
		25	0	20.01	20.18	20.10

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
5/ 10	QPSK	1	0	22.97	23.14	23.01
		1	24	23.09	23.15	23.11
		1	49	22.86	22.92	22.78
		25	0	22.01	22.14	21.95
		25	12	22.06	22.19	22.15
		25	25	21.91	22.12	22.01
		50	0	21.96	22.16	22.07
	16QAM	1	0	22.13	22.26	22.21
		1	24	22.13	22.32	22.23
		1	49	22.15	22.10	21.93
		25	0	21.06	21.15	21.18
		25	12	21.29	21.23	21.03
		25	25	21.18	21.12	20.85
		50	0	20.98	21.18	21.00
	64QAM	1	0	21.44	21.37	21.16
		1	24	21.29	21.40	21.45
		1	49	20.95	21.15	21.20
		25	0	20.23	20.16	20.21
		25	12	20.00	20.24	20.16
		25	25	19.99	20.13	20.07
		50	0	20.14	20.20	20.25

ERP POWER (dBm)

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	23.72	0.6	22.17	164.82	7
4182	836.4	23.79	0.6	22.24	167.49	7
4233	846.6	23.95	0.6	22.4	173.78	7

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

LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.13	0.6	21.58	143.88	7
20525	836.5	23.07	0.6	21.52	141.91	7
20643	848.3	23.13	0.6	21.58	143.88	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.17	0.6	20.62	115.35	7
20525	836.5	22.27	0.6	20.72	118.03	7
20643	848.3	22.15	0.6	20.6	114.82	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	21.16	0.6	19.61	91.41	7
20525	836.5	21.3	0.6	19.75	94.41	7
20643	848.3	21.39	0.6	19.84	96.38	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23	0.6	21.45	139.64	7
20525	836.5	23.06	0.6	21.51	141.58	7
20635	847.5	23.11	0.6	21.56	143.22	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.18	0.6	20.63	115.61	7
20525	836.5	22.11	0.6	20.56	113.76	7
20635	847.5	22.31	0.6	20.76	119.12	7

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	21.28	0.6	19.73	93.97	7
20525	836.5	21.42	0.6	19.87	97.05	7
20635	847.5	21.35	0.6	19.8	95.5	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.08	0.6	21.53	142.23	7
20525	836.5	22.84	0.6	21.29	134.59	7
20625	846.5	23.12	0.6	21.57	143.55	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.15	0.6	20.6	114.82	7
20525	836.5	22.3	0.6	20.75	118.85	7
20625	846.5	22.2	0.6	20.65	116.14	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	21.23	0.6	19.68	92.9	7
20525	836.5	21.45	0.6	19.9	97.72	7
20625	846.5	21.35	0.6	19.8	95.5	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	23.09	0.6	21.54	142.56	7
20525	836.5	23.15	0.6	21.6	144.54	7
20600	844.0	23.11	0.6	21.56	143.22	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.15	0.6	20.6	114.82	7
20525	836.5	22.32	0.6	20.77	119.4	7
20600	844.0	22.23	0.6	20.68	116.95	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	21.44	0.6	19.89	97.5	7
20525	836.5	21.4	0.6	19.85	96.61	7
20600	844.0	21.45	0.6	19.9	97.72	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

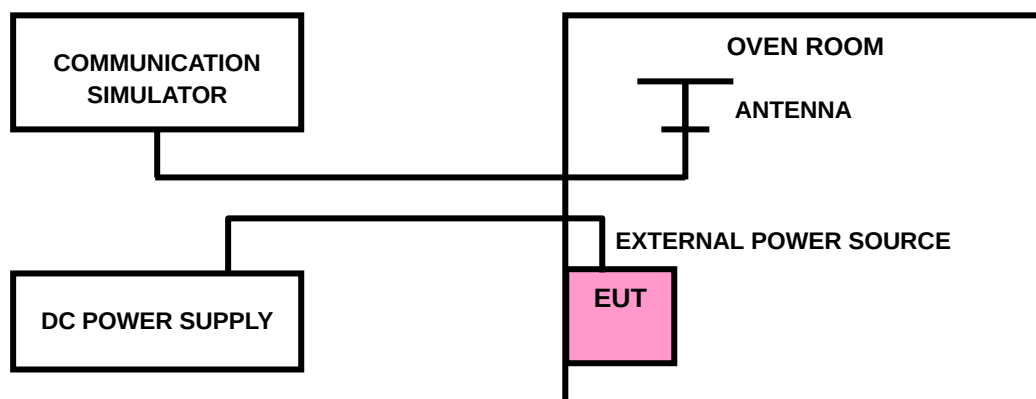
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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-P24090006RF04

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

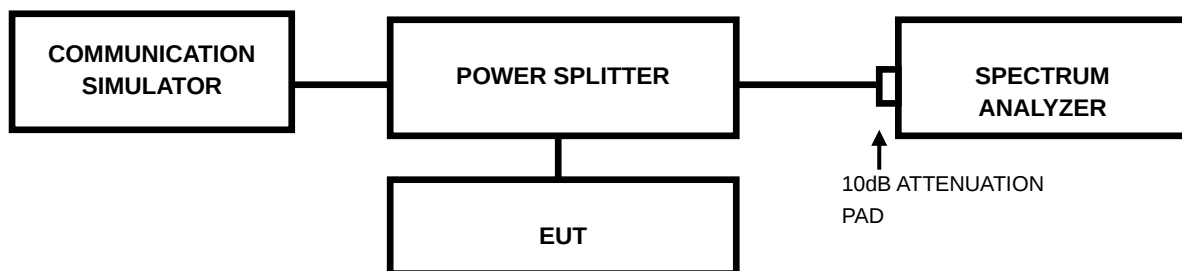
Note: VL = Low voltage(3.6V); VN/NV = Normal voltage(3.85V); VH = High voltage(4.3V);
NT = Normal temperature (25°C)

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-P24090006RF04

3.3.4 TEST RESULTS

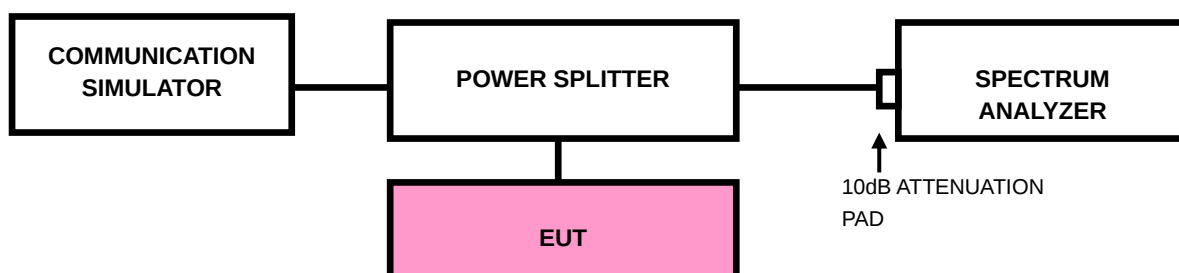
Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 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) $\geq 1\%$ 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 $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 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-P24090006RF04

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

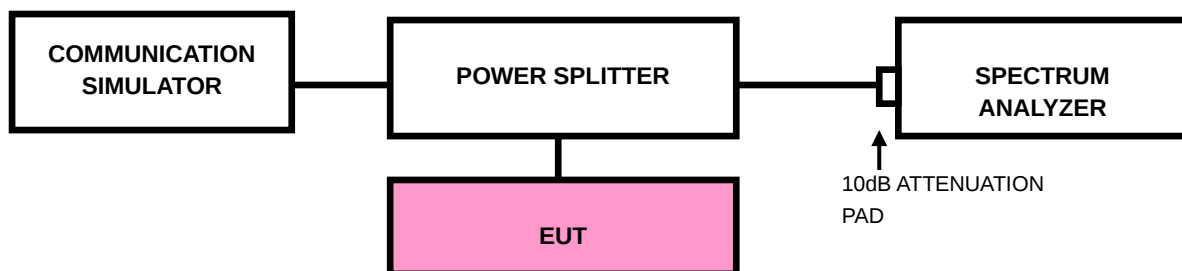
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- 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-P24090006RF04

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

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

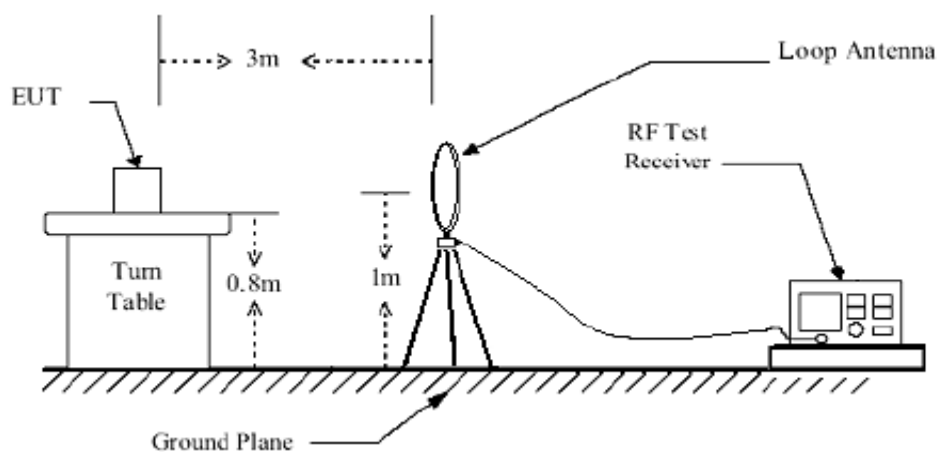
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

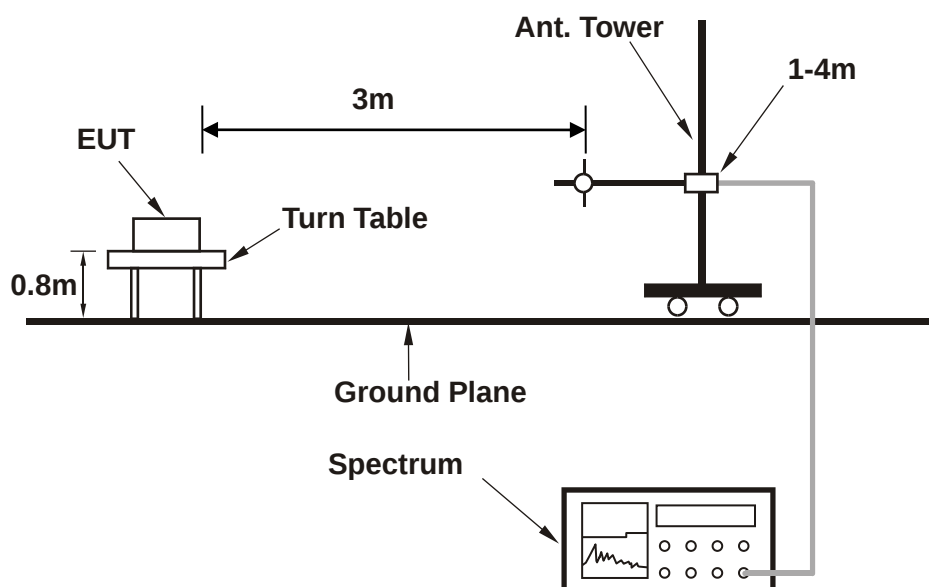
No deviation

3.6.4 TEST SETUP

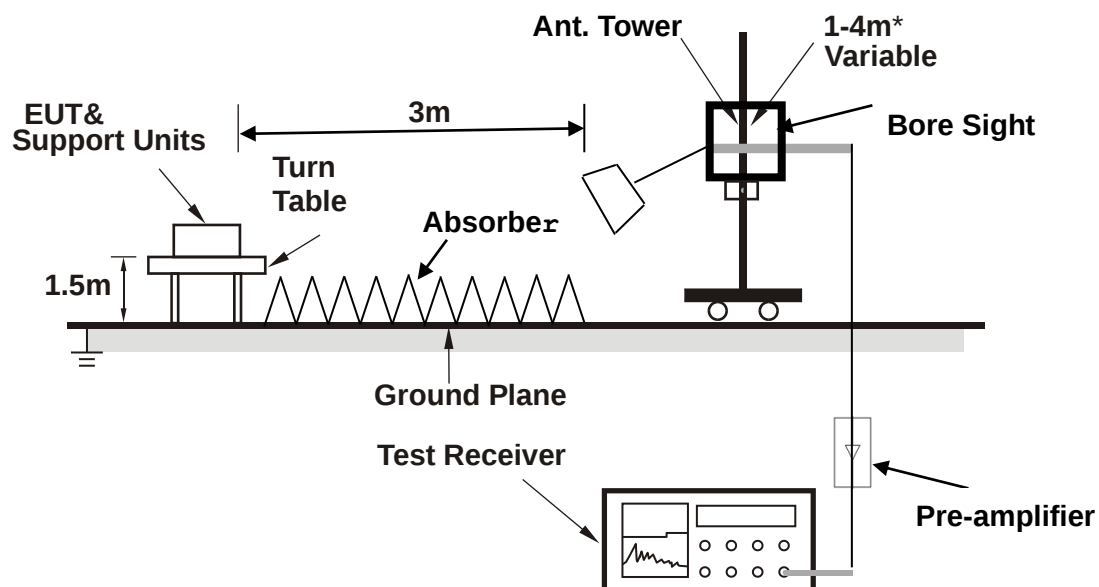
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

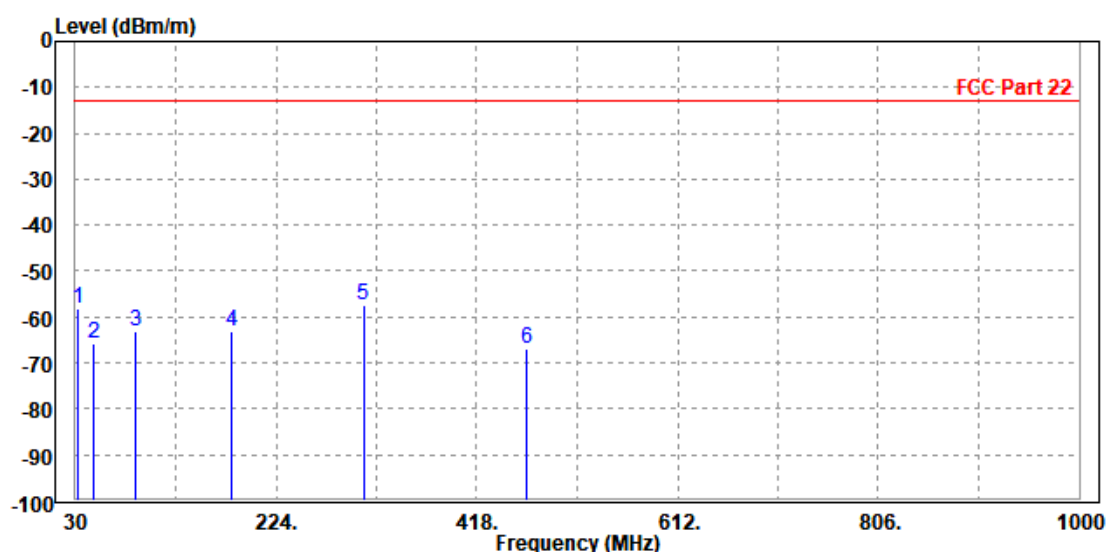
30 MHz – 1GHz data:

LTE Band5:

CHANNEL BANDWIDTH: 10M

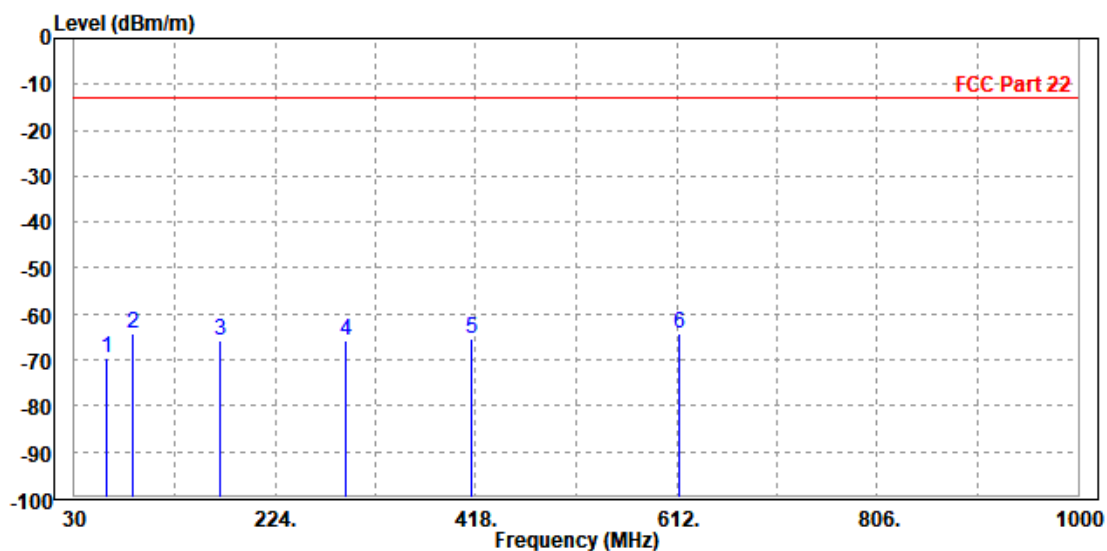
MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	31.940	-58.08	-55.04	-13.00	-45.08	-3.04	Peak	Horizontal
2	47.460	-65.86	-55.61	-13.00	-52.86	-10.25	Peak	Horizontal
3	88.200	-63.03	-50.30	-13.00	-50.03	-12.73	Peak	Horizontal
4	181.320	-63.28	-46.99	-13.00	-50.28	-16.29	Peak	Horizontal
5 PP	308.390	-57.56	-48.92	-13.00	-44.56	-8.64	Peak	Horizontal
6	465.530	-67.07	-61.41	-13.00	-54.07	-5.66	Peak	Horizontal



MODE	TX channel 189	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 Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	62.010	-69.41	-50.69	-13.00	-56.41	-18.72	Peak	Vertical
2	87.230	-64.32	-46.50	-13.00	-51.32	-17.82	Peak	Vertical
3	171.620	-65.63	-54.70	-13.00	-52.63	-10.93	Peak	Vertical
4	292.870	-65.61	-62.15	-13.00	-52.61	-3.46	Peak	Vertical
5	413.150	-65.50	-61.21	-13.00	-52.50	-4.29	Peak	Vertical
6 PP	614.910	-64.22	-63.36	-13.00	-51.22	-0.86	Peak	Vertical





ABOVE 1GHz DATA

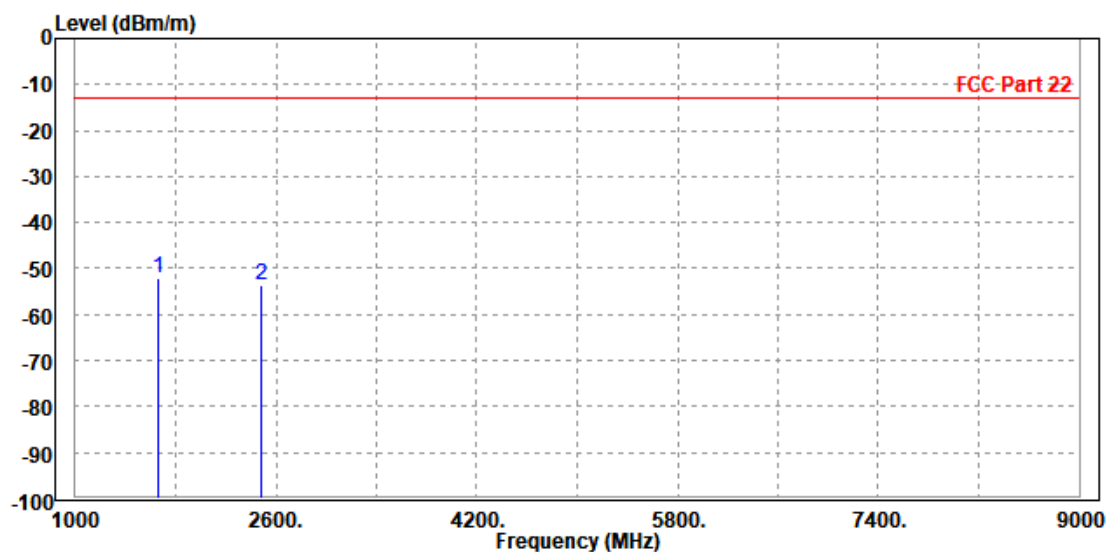
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band V:

CH 4132:

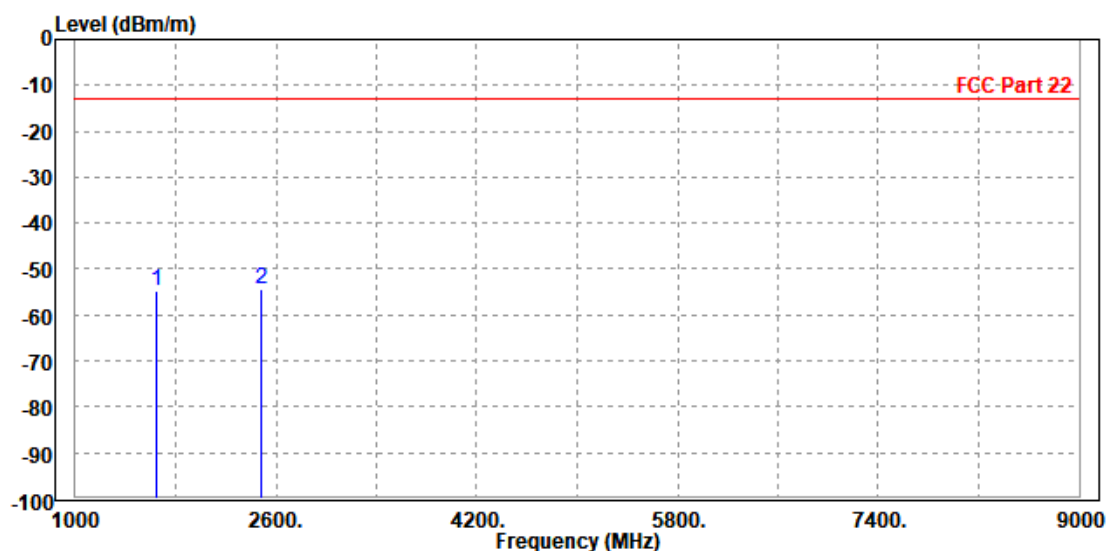
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1656.000	-52.09	-55.77	-13.00	-39.09	3.68	Peak	Horizontal
2	2479.200	-53.76	-59.80	-13.00	-40.76	6.04	Peak	Horizontal



MODE	TX channel 4132	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			

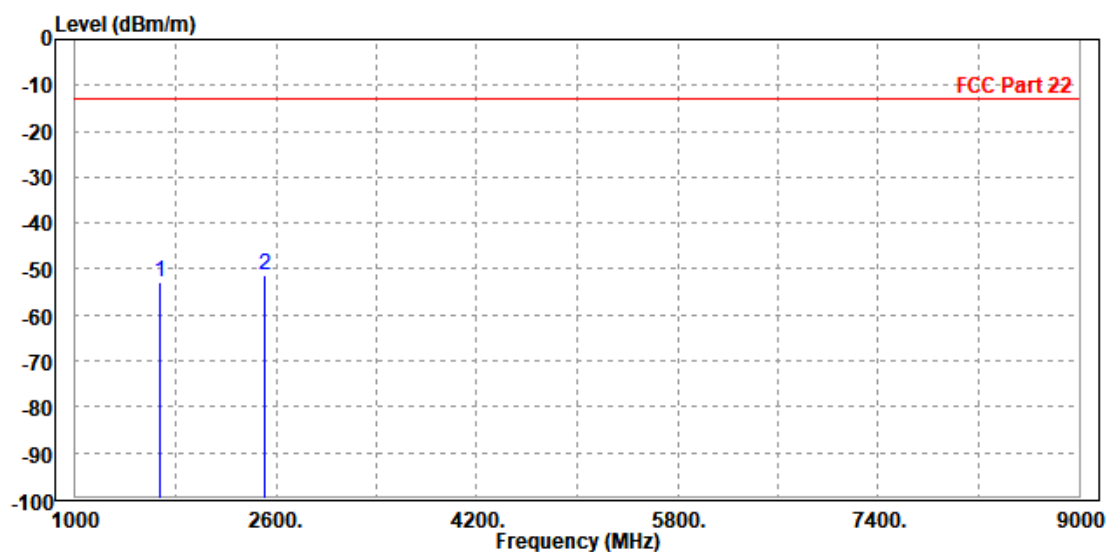
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1652.800	-54.65	-58.05	-13.00	-41.65	3.40	Peak	Vertical
2 PP	2480.000	-54.38	-60.09	-13.00	-41.38	5.71	Peak	Vertical



CH 4182:

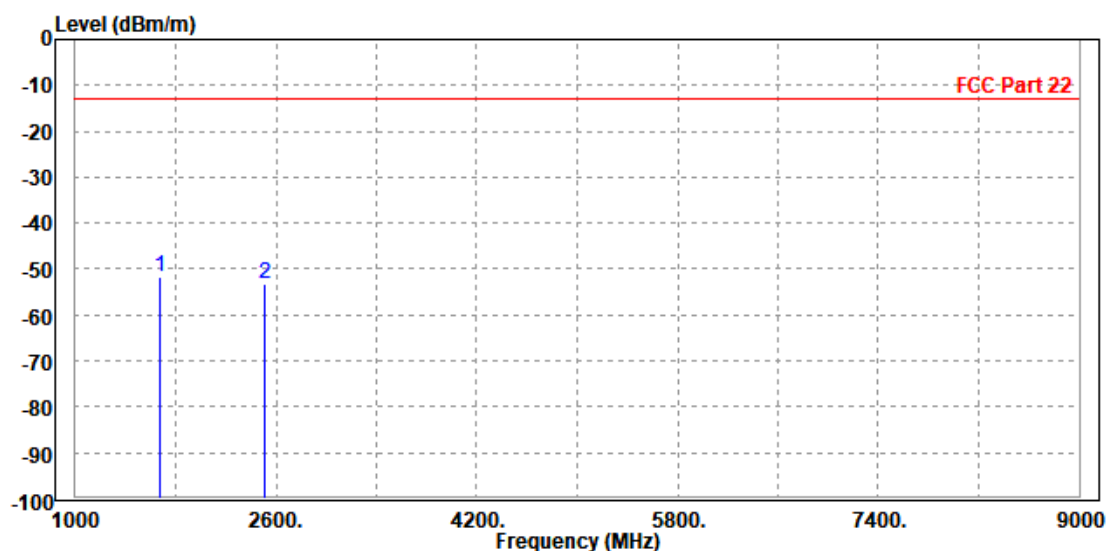
MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-52.72	-56.45	-13.00	-39.72	3.73	Peak	Horizontal
2 PP	2509.200	-51.27	-57.41	-13.00	-38.27	6.14	Peak	Horizontal



MODE	TX channel 4182	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			

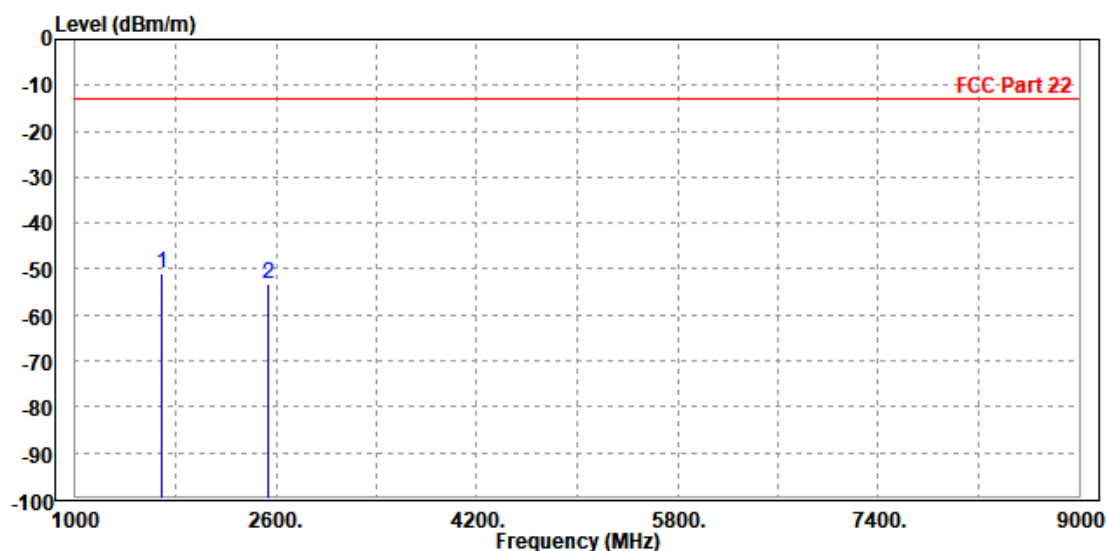
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.800	-51.83	-55.57	-13.00	-38.83	3.74	Peak	Horizontal
2	2512.000	-53.26	-59.41	-13.00	-40.26	6.15	Peak	Horizontal



CH 4233:

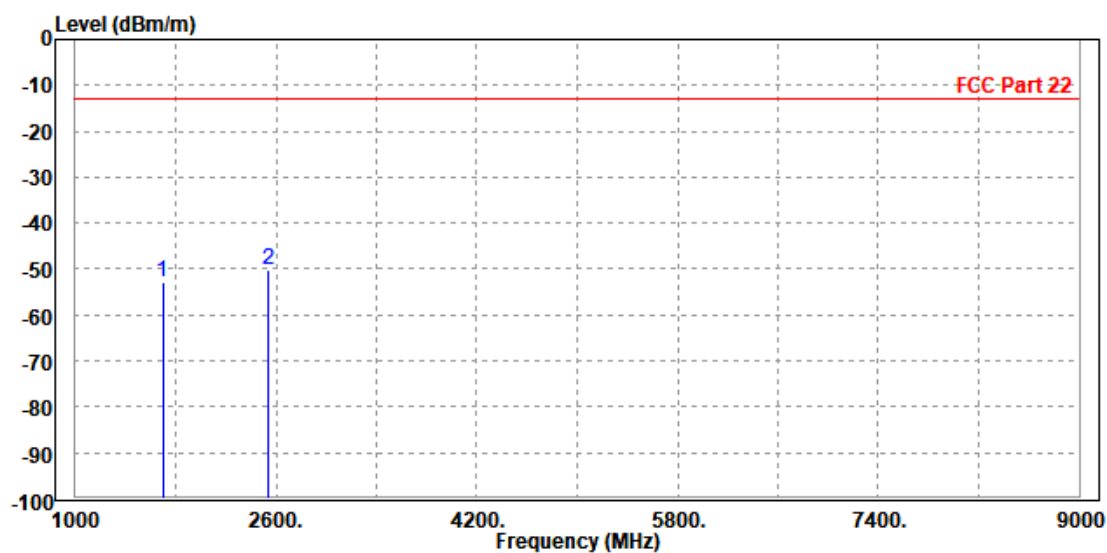
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

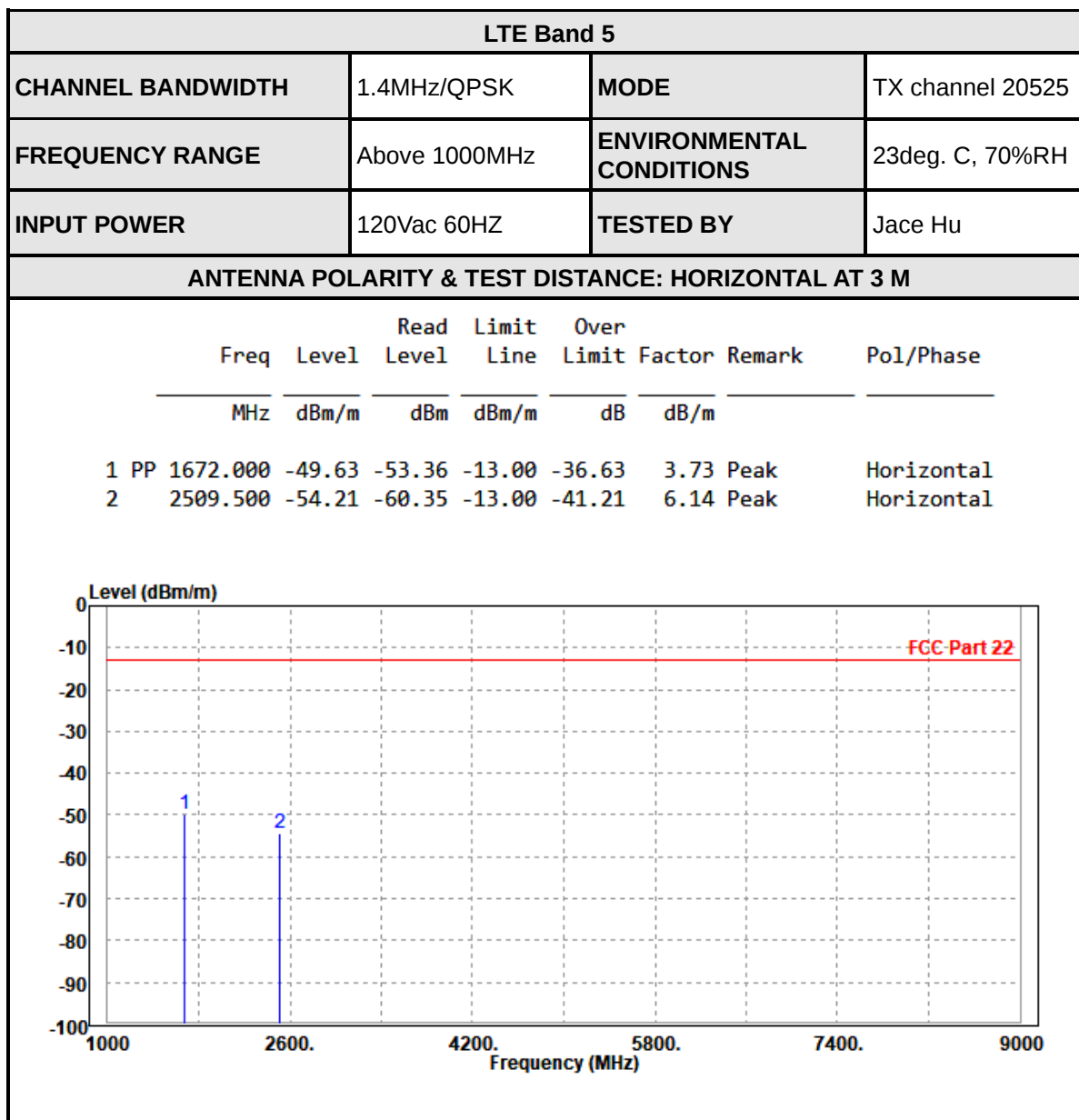
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1693.200	-50.94	-54.74	-13.00	-37.94	3.80	Peak	Horizontal
2	2536.000	-53.26	-59.51	-13.00	-40.26	6.25	Peak	Horizontal

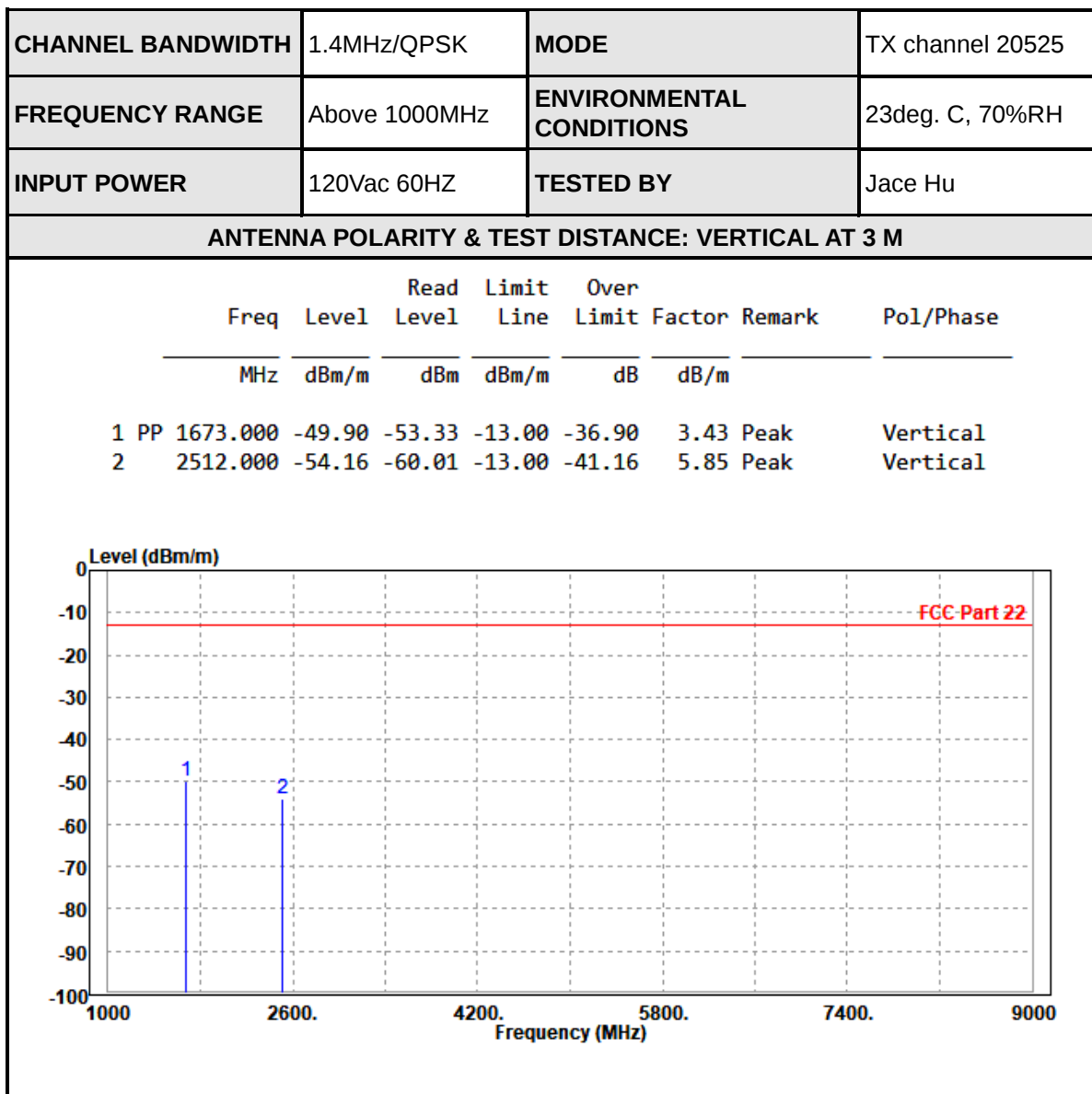


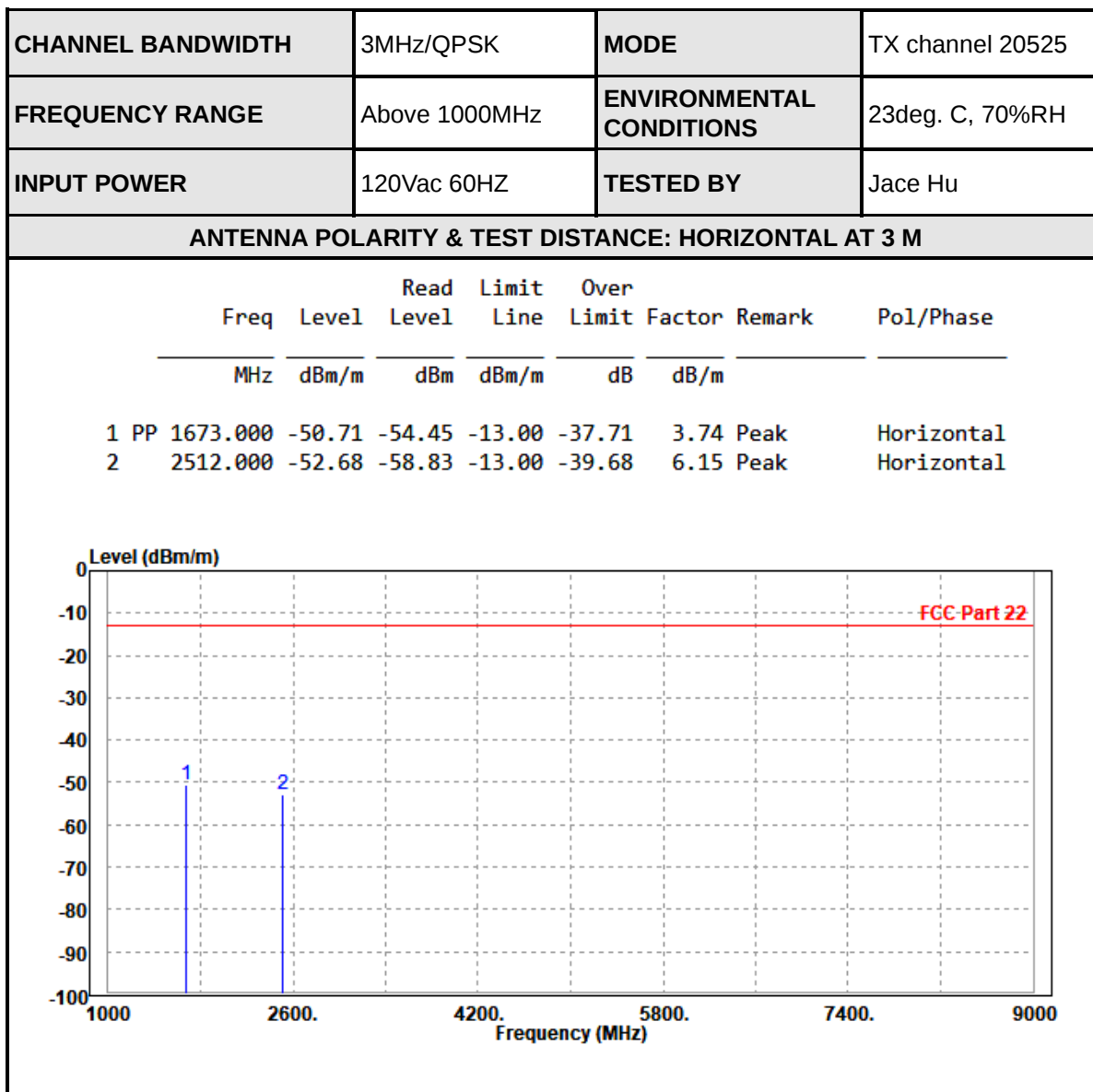
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1696.000	-52.82	-56.29	-13.00	-39.82	3.47	Peak	Vertical
2 PP	2539.800	-50.35	-56.37	-13.00	-37.35	6.02	Peak	Vertical





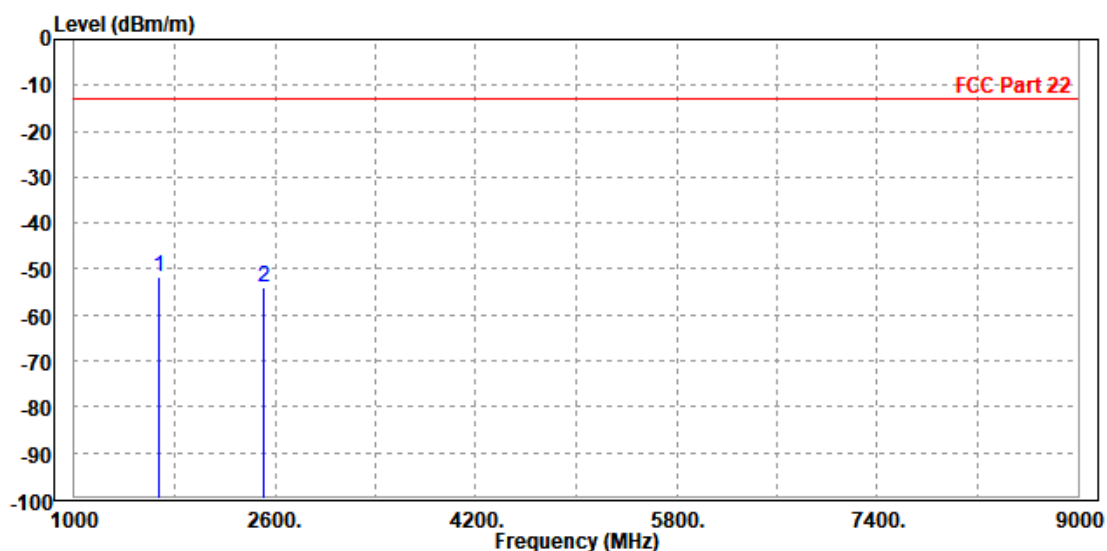




CHANNEL BANDWIDTH	3MHz/QPSK	MODE	TX channel 20525
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

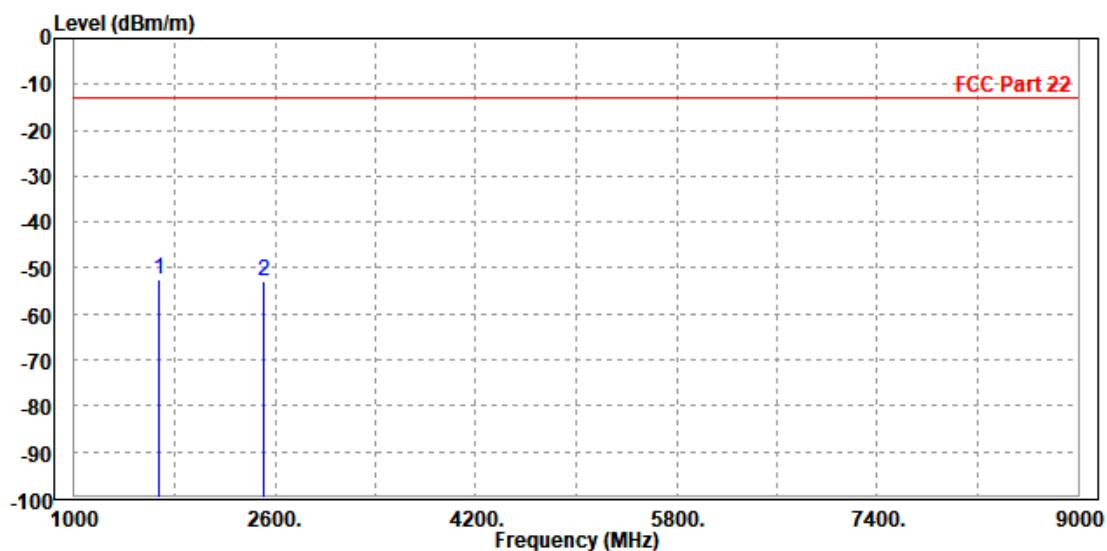
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.000	-51.77	-55.20	-13.00	-38.77	3.43	Peak	Vertical
2	2509.500	-53.89	-59.73	-13.00	-40.89	5.84	Peak	Vertical



CHANNEL BANDWIDTH	5MHz/QPSK	MODE	TX channel 20525
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

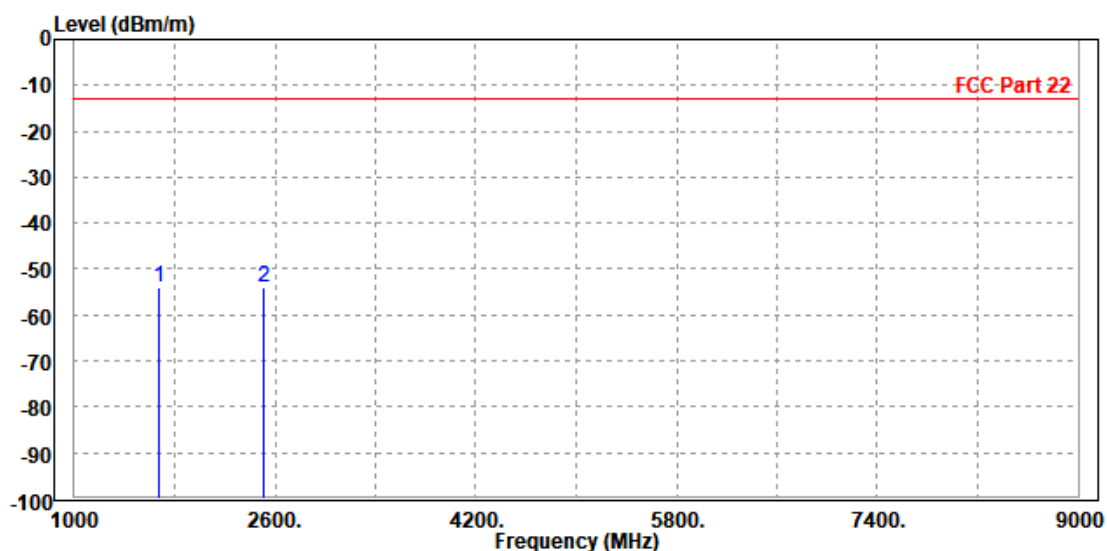
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1673.000	-52.40	-56.14	-13.00	-39.40	3.74	Peak	Horizontal
2	2512.000	-52.81	-58.96	-13.00	-39.81	6.15	Peak	Horizontal



CHANNEL BANDWIDTH	5MHz/QPSK	MODE	TX channel 20525
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

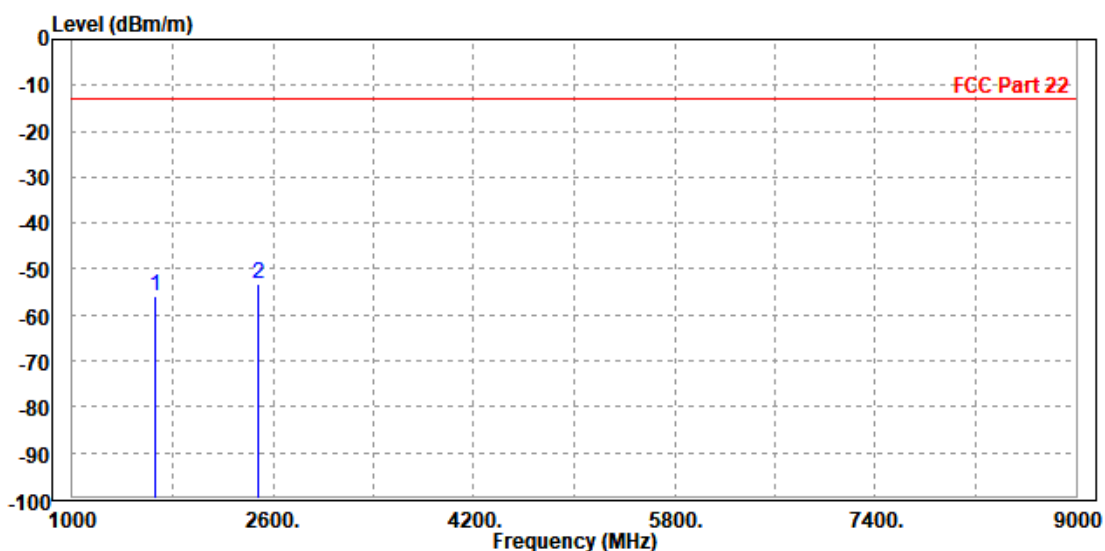
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.000	-54.08	-57.51	-13.00	-41.08	3.43	Peak	Vertical
2	2509.500	-54.15	-59.99	-13.00	-41.15	5.84	Peak	Vertical

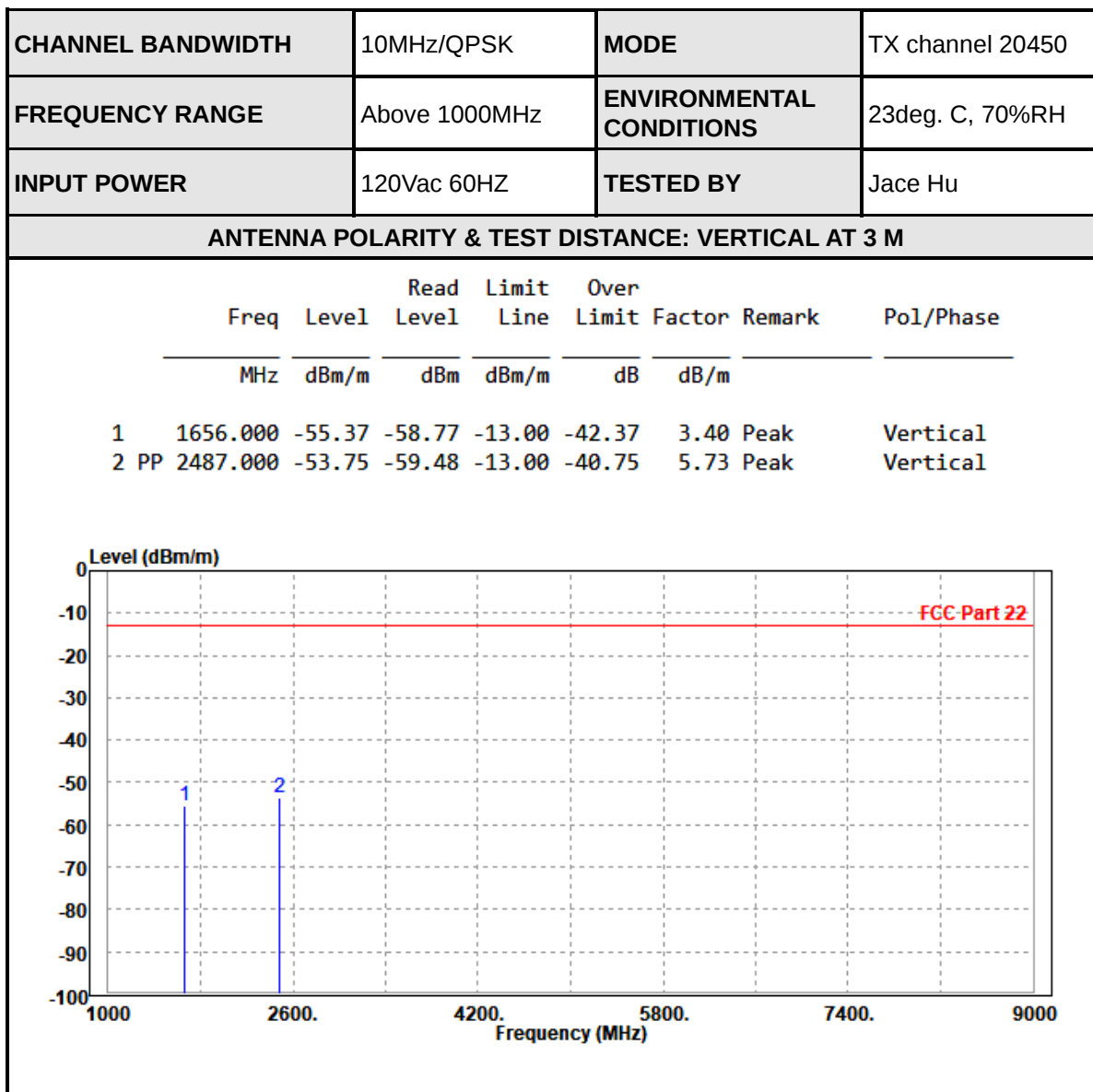


CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20450
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1658.000	-55.78	-59.47	-13.00	-42.78	3.69	Peak	Horizontal
2 PP	2488.000	-53.09	-59.16	-13.00	-40.09	6.07	Peak	Horizontal

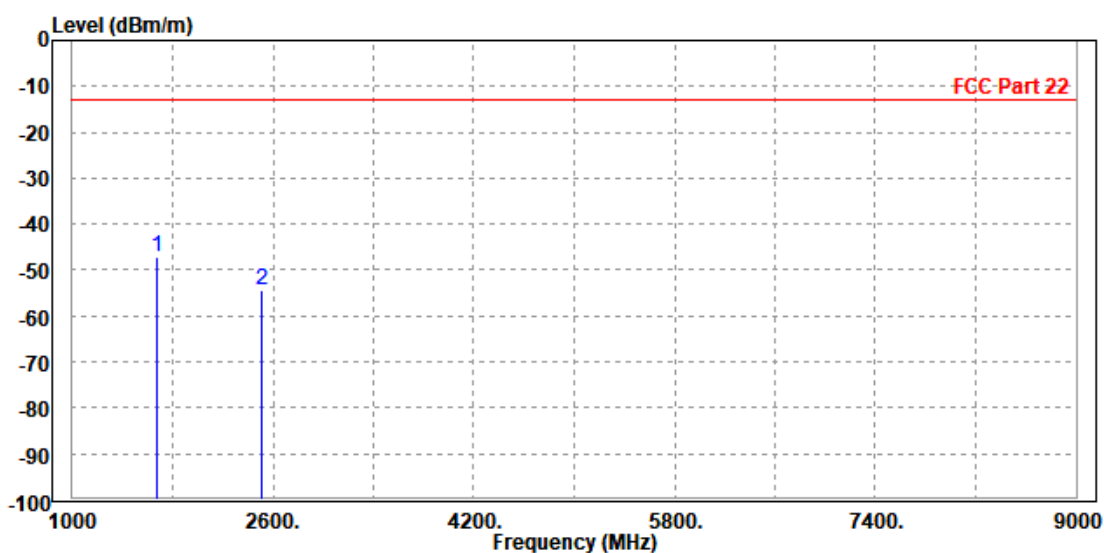


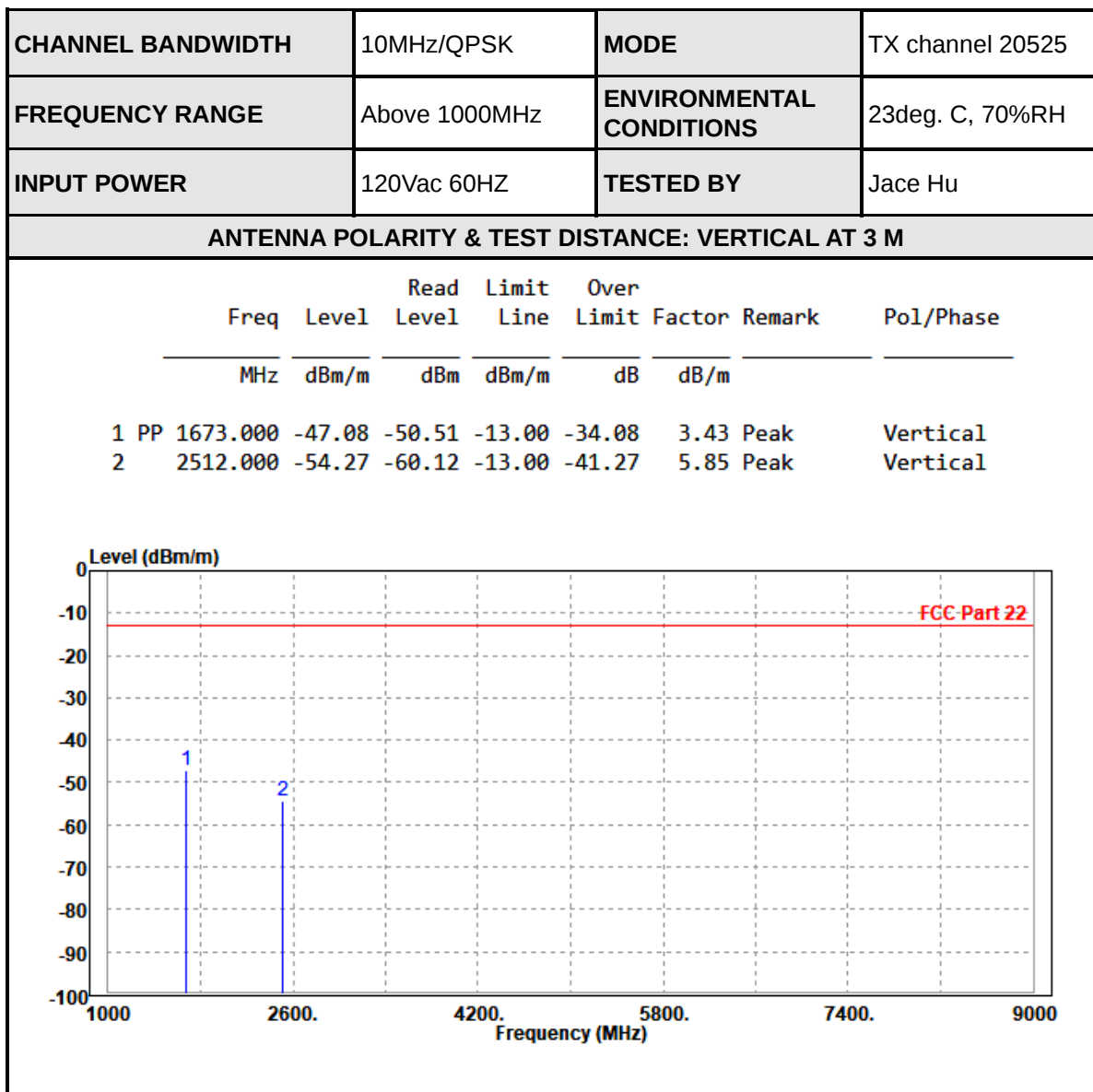


CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20525
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.000	-47.33	-51.06	-13.00	-34.33	3.73	Peak	Horizontal
2	2509.500	-54.22	-60.36	-13.00	-41.22	6.14	Peak	Horizontal

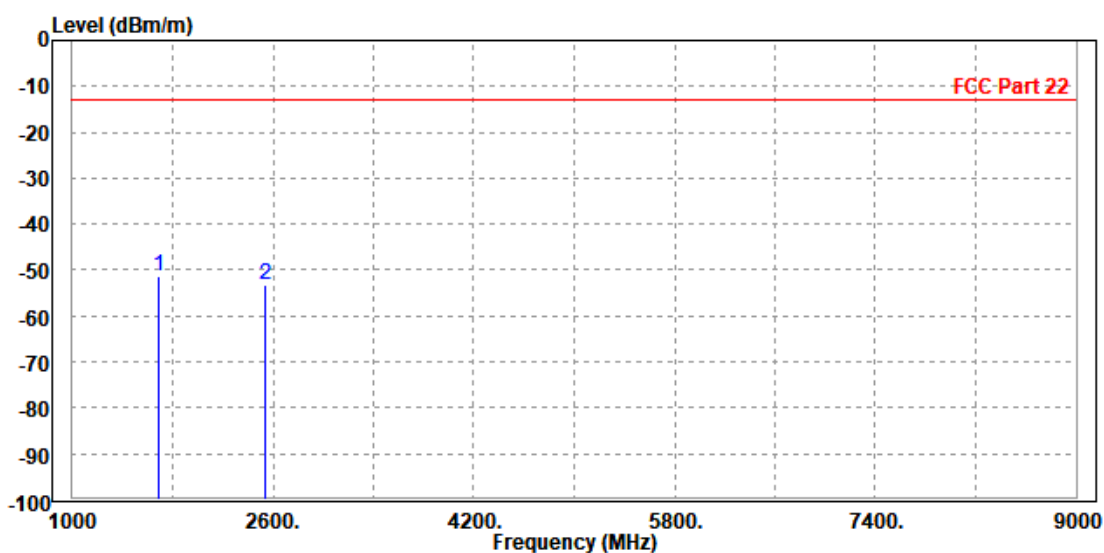




CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20600
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

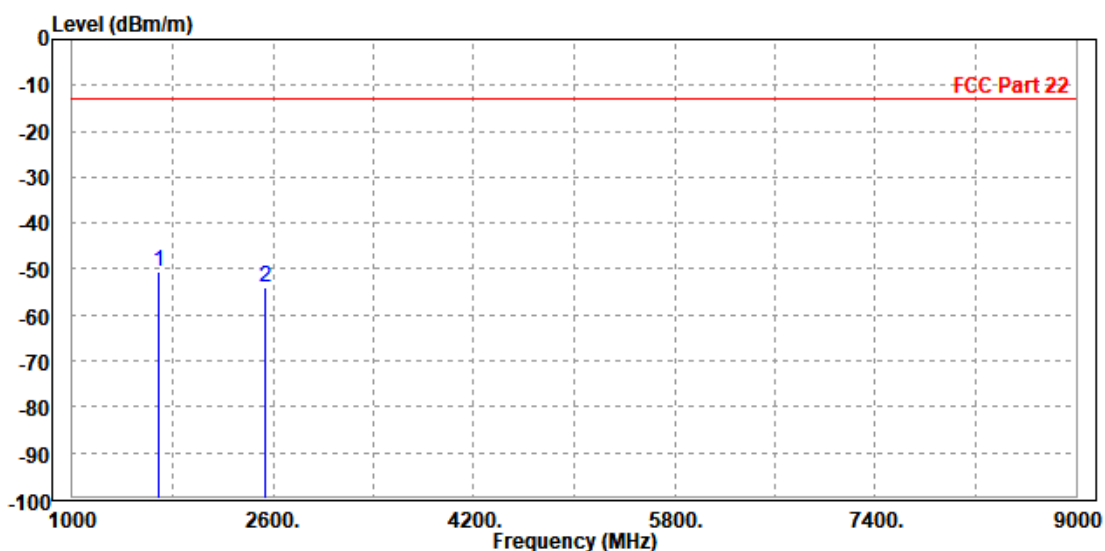
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1688.000	-51.38	-55.16	-13.00	-38.38	3.78	Peak	Horizontal
2	2532.000	-53.36	-59.60	-13.00	-40.36	6.24	Peak	Horizontal



CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20600
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Jace Hu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1688.000	-50.66	-54.12	-13.00	-37.66	3.46	Peak	Vertical
2	2536.000	-54.01	-60.01	-13.00	-41.01	6.00	Peak	Vertical

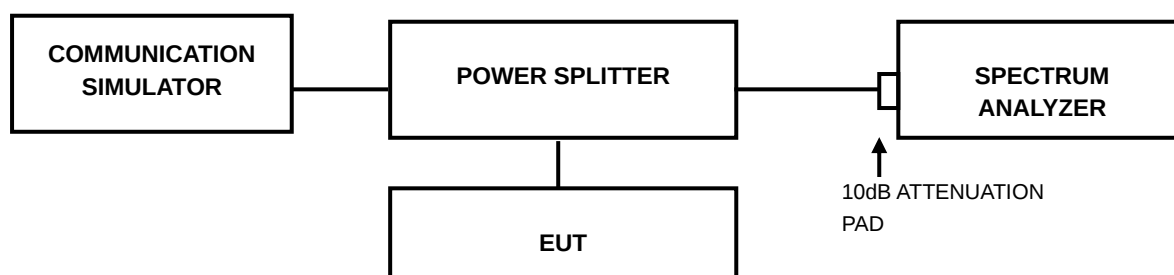


3.7 PEAK TO AVERAGE RATIO

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-P24090006RF04

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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5 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.

6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

7 APPENDIX

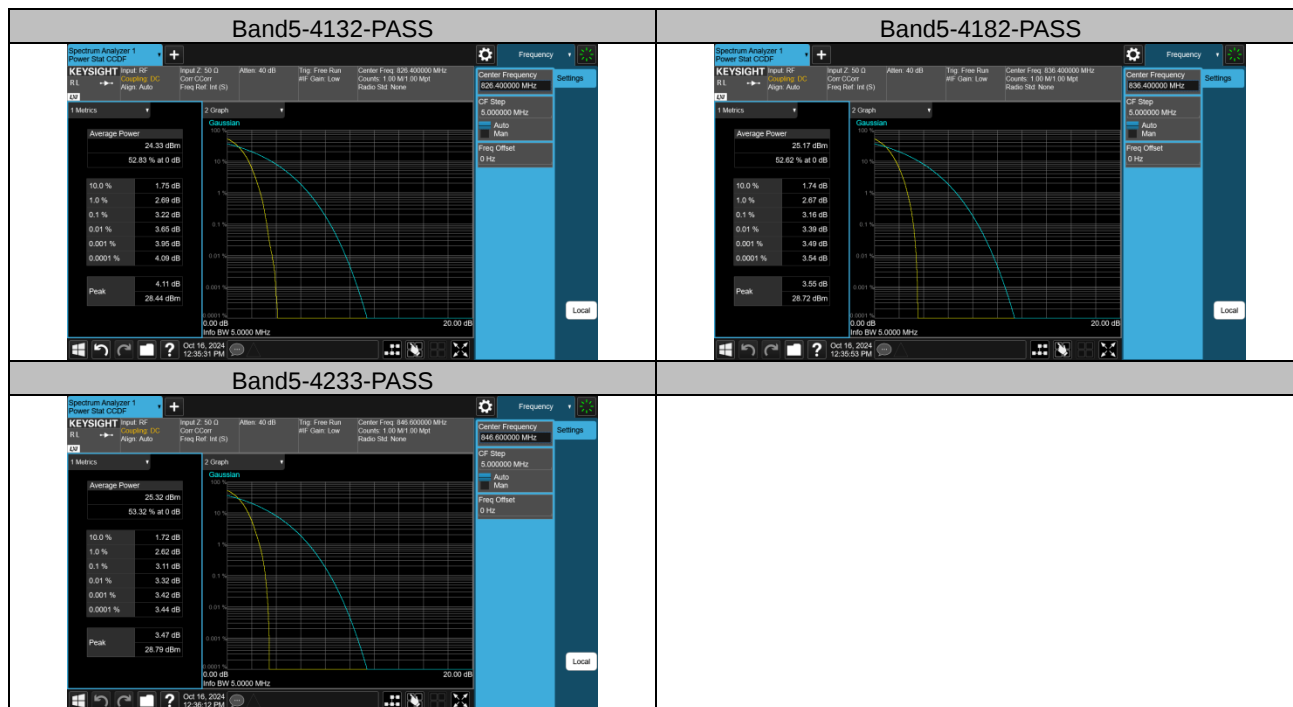
WCDMA BAND 5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.22	13	PASS
Band5	4182	3.16	13	PASS
Band5	4233	3.11	13	PASS

Test Graphs



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1394	4.716	---	PASS
Band5	4182	4.1327	4.702	---	PASS
Band5	4233	4.1295	4.699	---	PASS

Test Graphs





Test Report No.: W7L-P24090006RF04

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.87	-24.99	-13	PASS
Band5	4233	849.17	-25.17	-13	PASS

Test Graphs

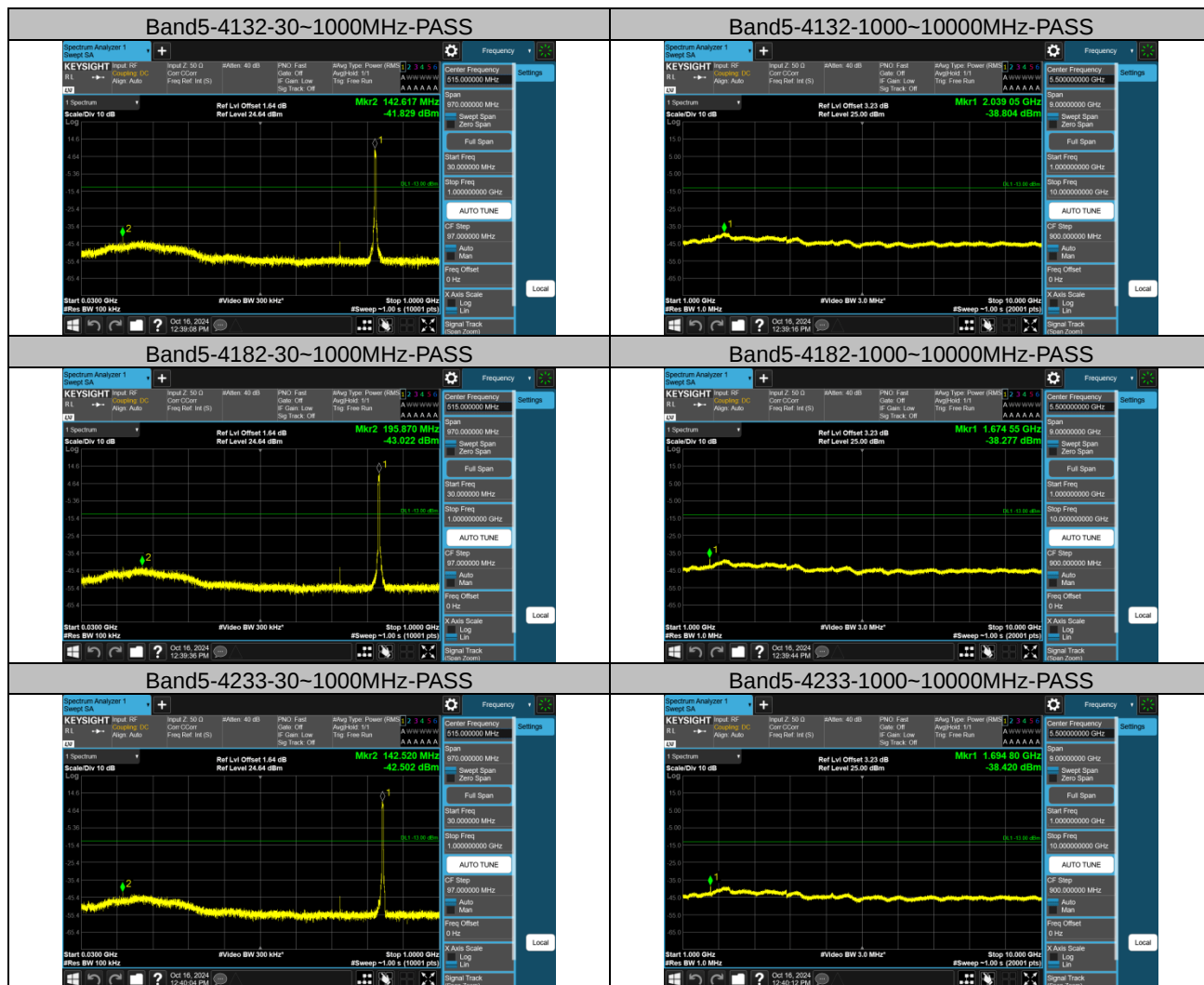


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	142.62	-41.83	-13	PASS
Band5	4132	1000~10000MHz	2039.05	-38.8	-13	PASS
Band5	4182	30~1000MHz	195.87	-43.02	-13	PASS
Band5	4182	1000~10000MHz	1674.55	-38.28	-13	PASS
Band5	4233	30~1000MHz	142.52	-42.5	-13	PASS
Band5	4233	1000~10000MHz	1694.8	-38.42	-13	PASS

Test Graphs



FREQUENCY STABILITY

Test Result

Voltage									
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	4132	VN	NT	-8340.00	-10.091965	824.31961	---	824-849	PASS
Band5	4132	VL	NT	-5630.00	-6.812682	824.32552	---	824-849	PASS
Band5	4132	VH	NT	-7460.00	-9.027106	824.32194	---	824-849	PASS
Band5	4233	VN	NT	-630.00	-0.744153	---	848.66457	824-849	PASS
Band5	4233	VL	NT	-1660.00	-1.960784	---	848.66279	824-849	PASS
Band5	4233	VH	NT	-2900.00	-3.425467	---	848.6633	824-849	PASS

Temperature									
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	4132	NV	-30	-5260.00	-6.364956	824.32524	---	824-849	PASS
Band5	4132	NV	-20	-3960.00	-4.791868	824.32219	---	824-849	PASS
Band5	4132	NV	-10	-3290.00	-3.981123	824.32201	---	824-849	PASS
Band5	4132	NV	0	-6540.00	-7.913843	824.32286	---	824-849	PASS
Band5	4132	NV	10	-5050.00	-6.110842	824.32485	---	824-849	PASS
Band5	4132	NV	20	-4920.00	-5.953533	824.32398	---	824-849	PASS
Band5	4132	NV	30	-5560.00	-6.727977	824.32074	---	824-849	PASS
Band5	4132	NV	40	-2240.00	-2.710552	824.32621	---	824-849	PASS
Band5	4132	NV	50	-3530.00	-4.271539	824.32232	---	824-849	PASS
Band5	4233	NV	-30	-2410.00	-2.846681	---	848.66319	824-849	PASS
Band5	4233	NV	-20	-2120.00	-2.504134	---	848.66363	824-849	PASS
Band5	4233	NV	-10	-2490.00	-2.941176	---	848.66306	824-849	PASS
Band5	4233	NV	0	-2710.00	-3.201039	---	848.66229	824-849	PASS
Band5	4233	NV	10	-7170.00	-8.469171	---	848.65188	824-849	PASS
Band5	4233	NV	20	-4290.00	-5.067328	---	848.65921	824-849	PASS
Band5	4233	NV	30	-1540.00	-1.819041	---	848.66401	824-849	PASS
Band5	4233	NV	40	-2200.00	-2.598630	---	848.666	824-849	PASS
Band5	4233	NV	50	-4480.00	-5.291755	---	848.65877	824-849	PASS



Test Report No.: W7L-P24090006RF04

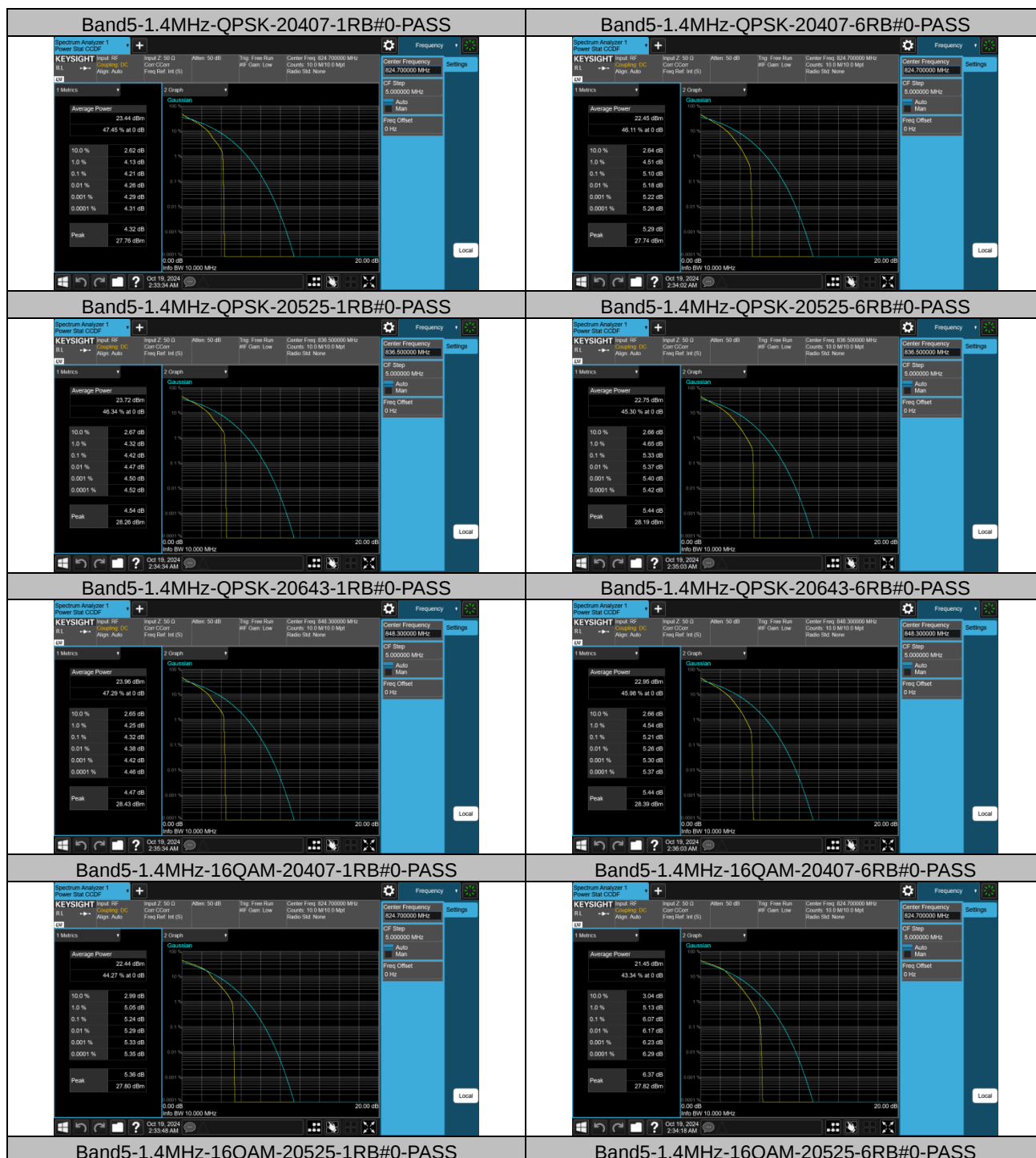
LTE BAND 5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.21	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.10	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.42	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.33	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.32	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.21	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.24	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.07	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.42	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.34	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.33	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.19	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.20	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.13	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.39	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.34	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.34	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.27	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.23	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.10	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.49	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.32	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.43	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.23	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.23	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.30	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.37	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.46	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.39	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.41	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.15	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.19	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.37	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.37	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.34	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.33	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.18	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.54	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.29	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.55	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.38	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.55	13	PASS

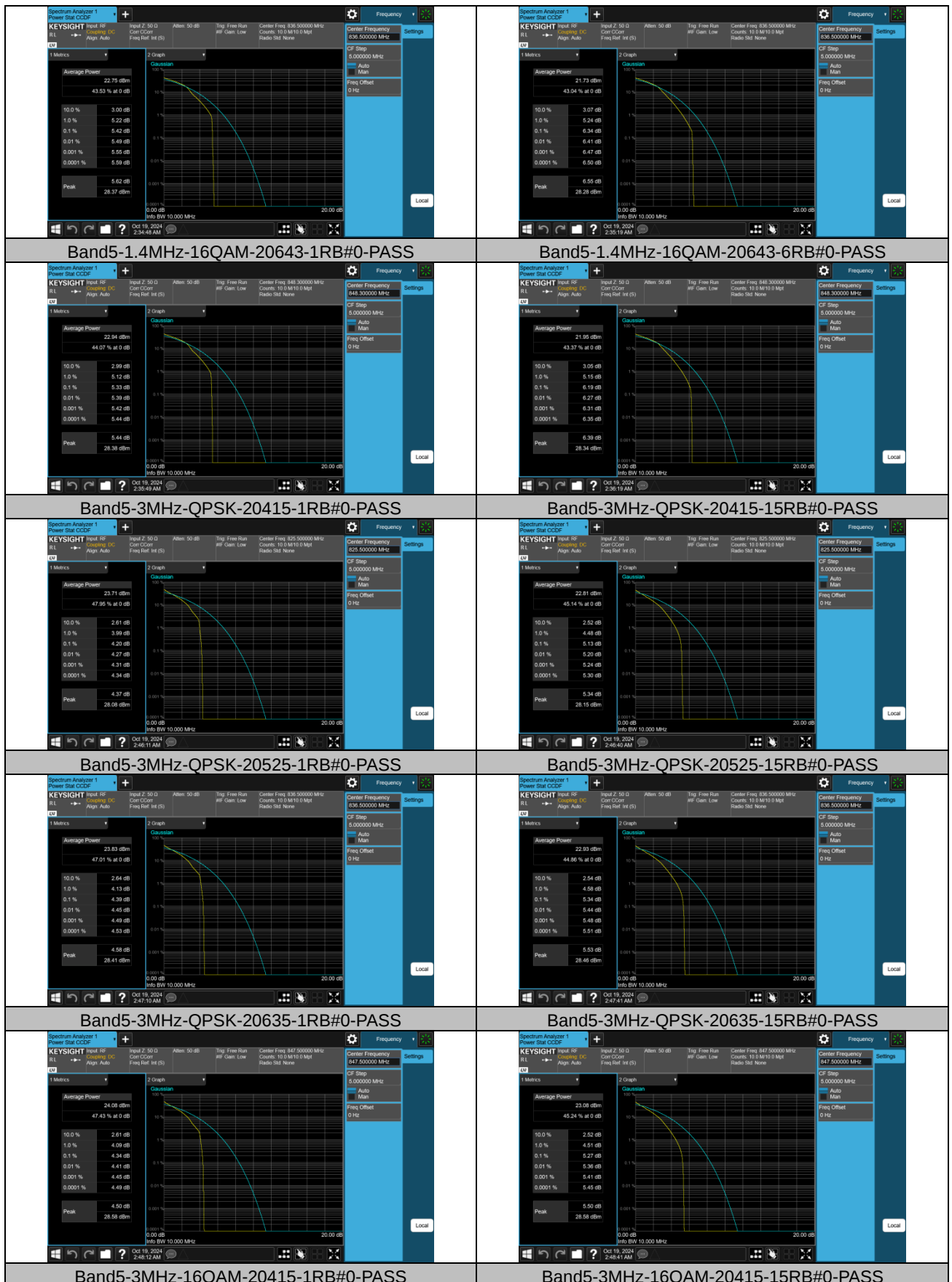
Test Graphs





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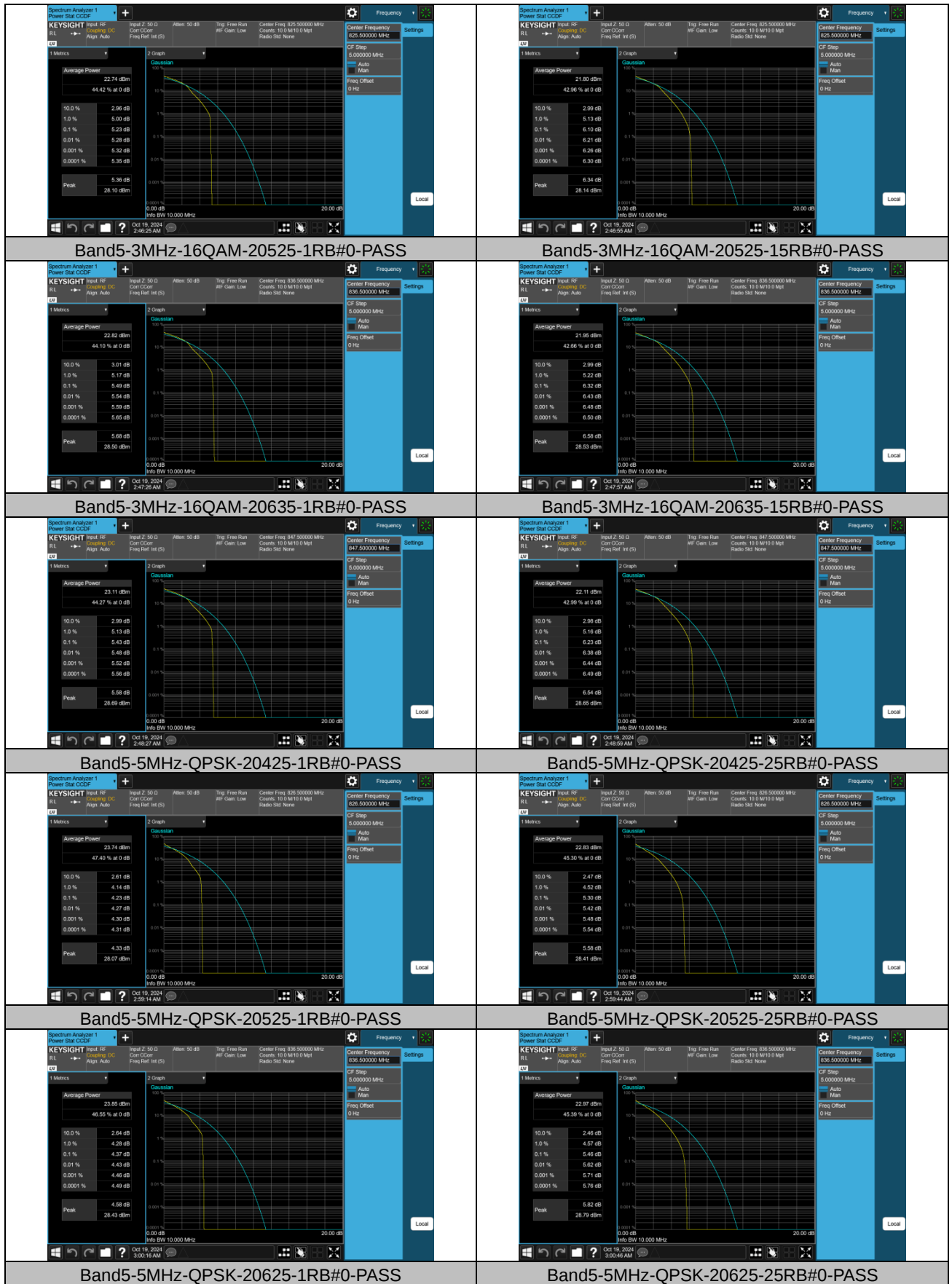
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Zhaoshang Street, Nanshan District Shenzhen,
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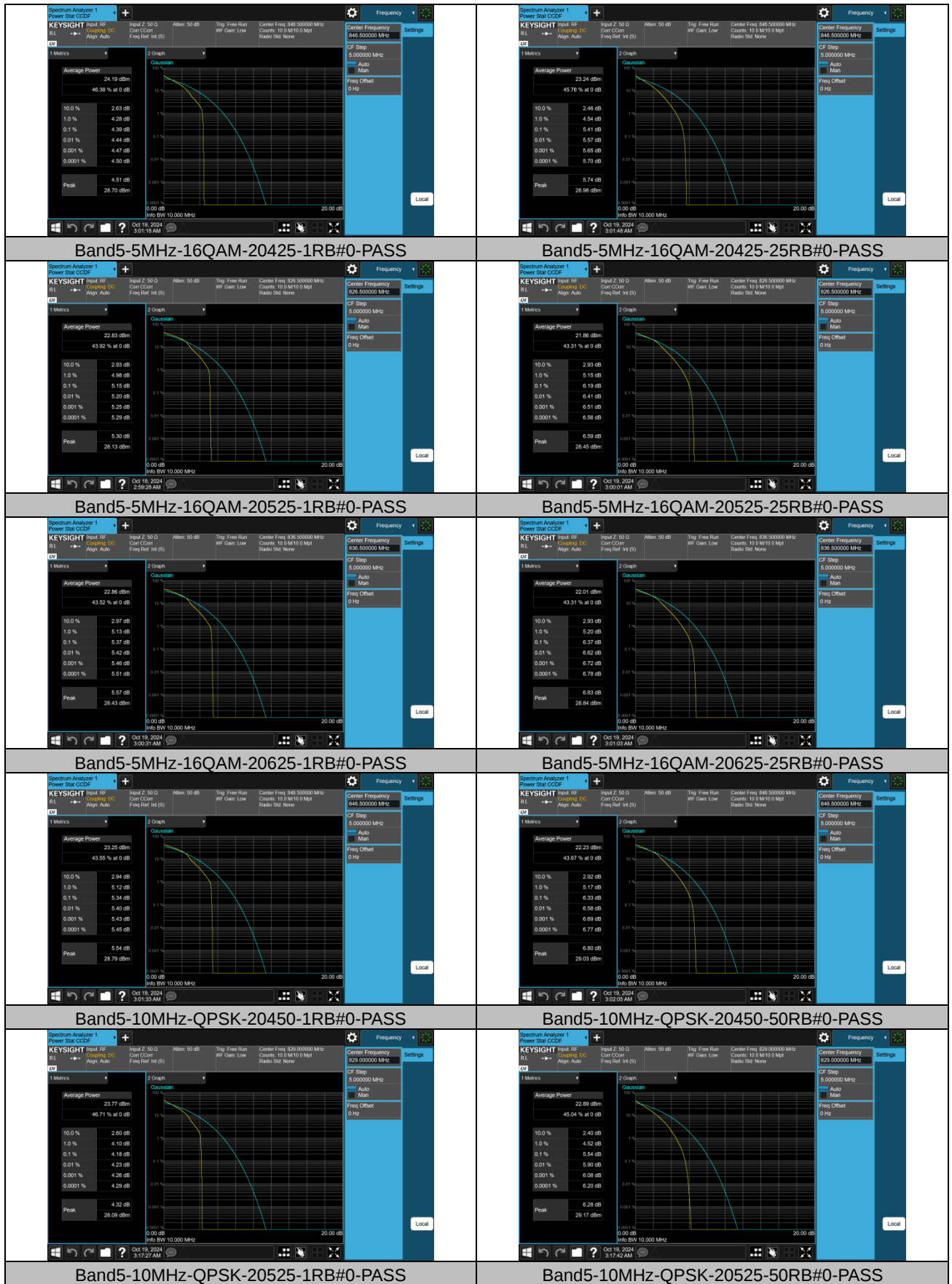
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Zhaoshang Street, Nanshan District Shenzhen,
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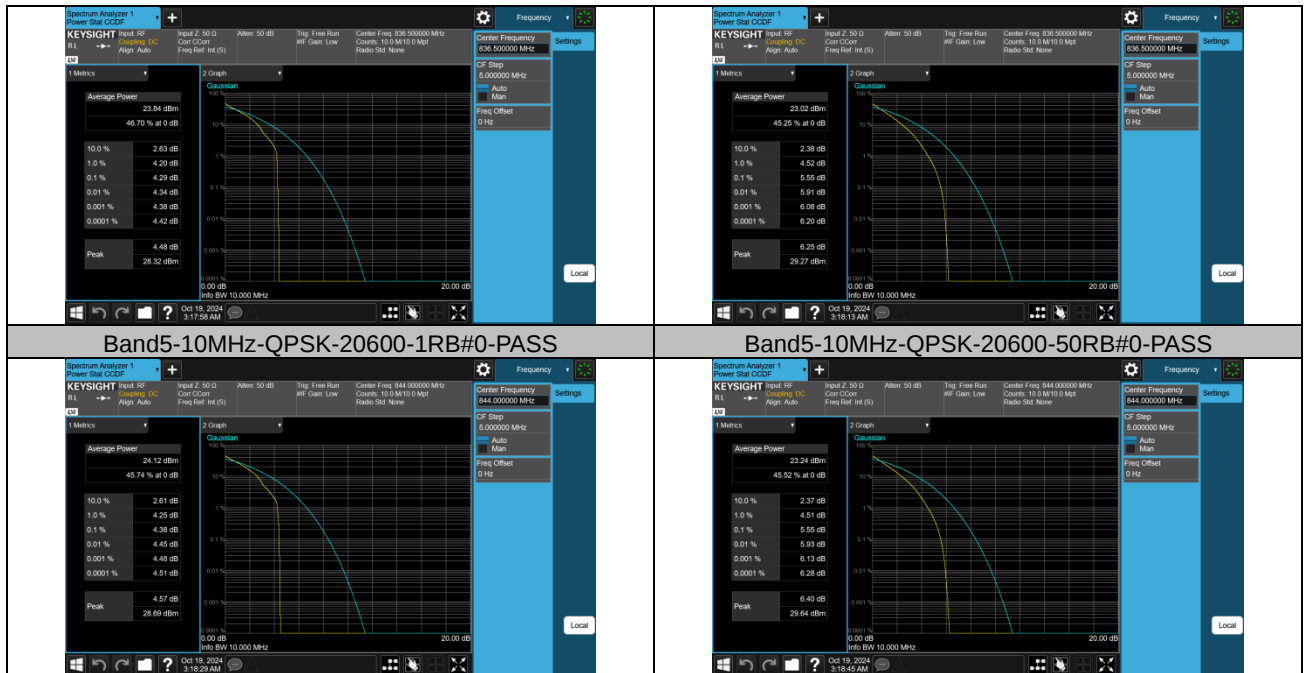
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Test Report No.: W7L-P24090006RF04

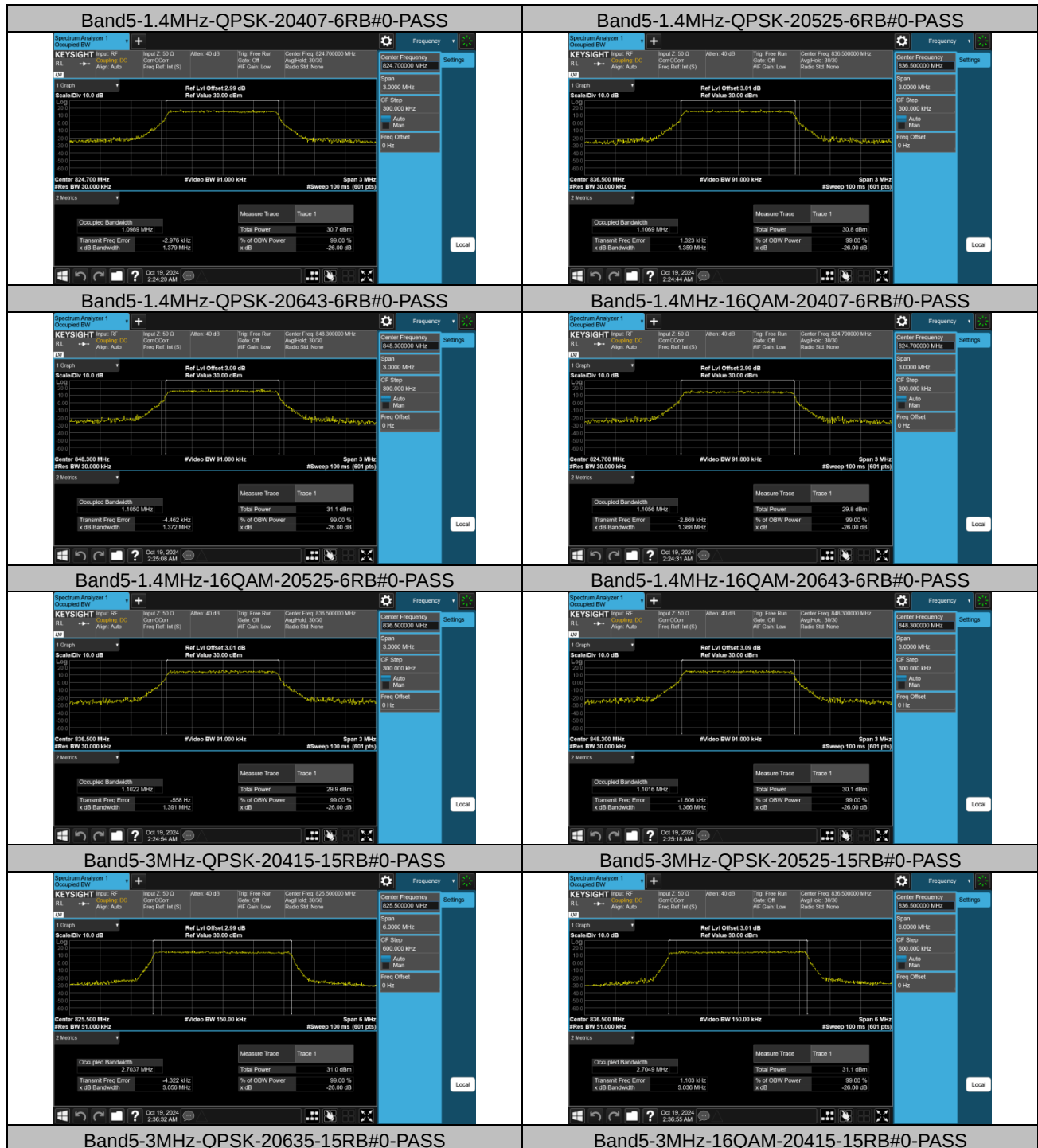


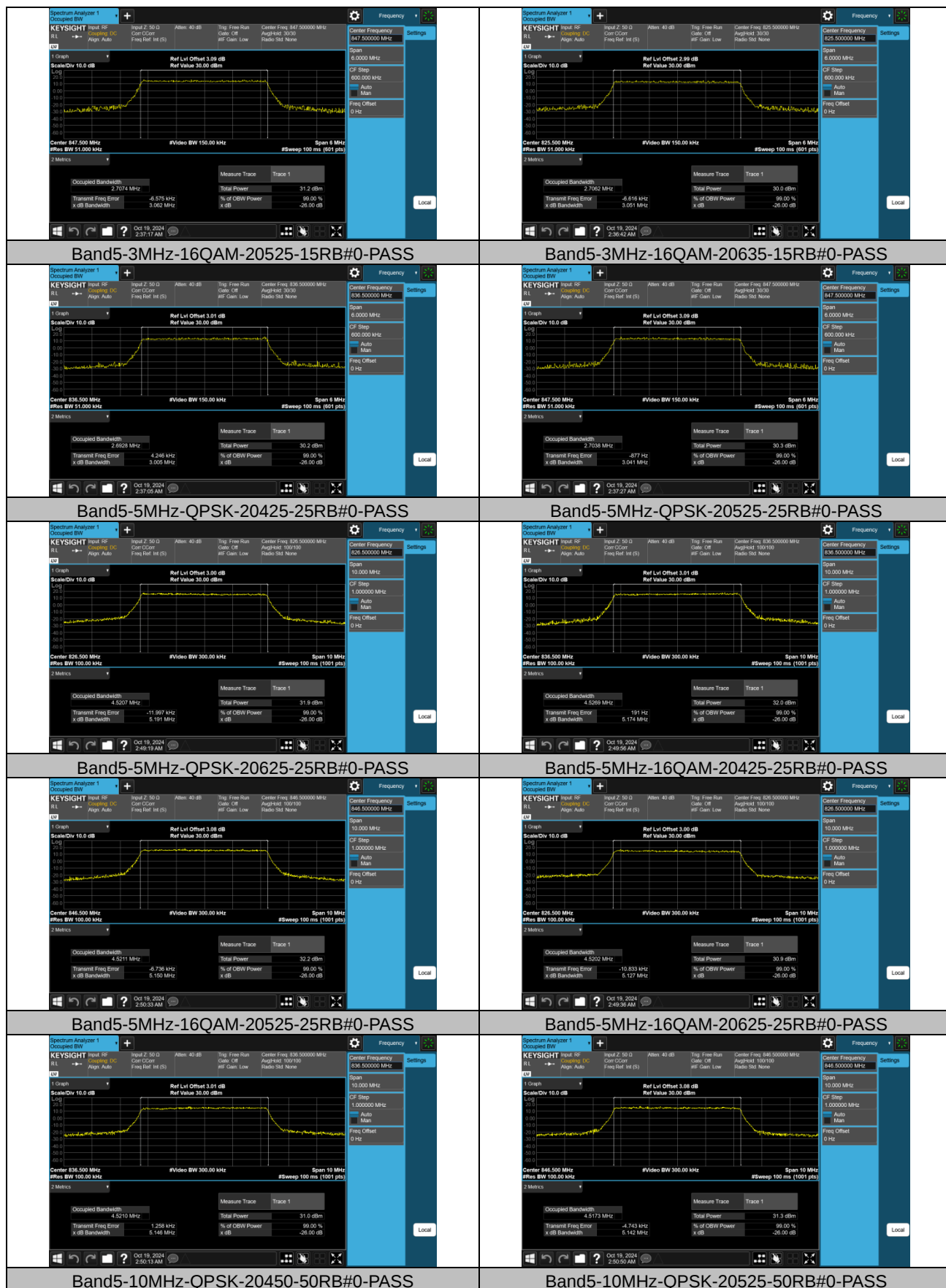
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0989	1.379	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1069	1.359	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1050	1.372	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1056	1.368	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1022	1.391	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1016	1.366	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7037	3.056	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7049	3.036	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7074	3.062	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7062	3.051	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6928	3.005	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7038	3.041	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5207	5.191	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5269	5.174	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5211	5.150	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5202	5.127	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5210	5.146	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5173	5.142	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0190	10.02	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9849	10.09	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0049	10.10	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0287	10.17	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9859	10.08	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9850	10.09	PASS

Test Graphs

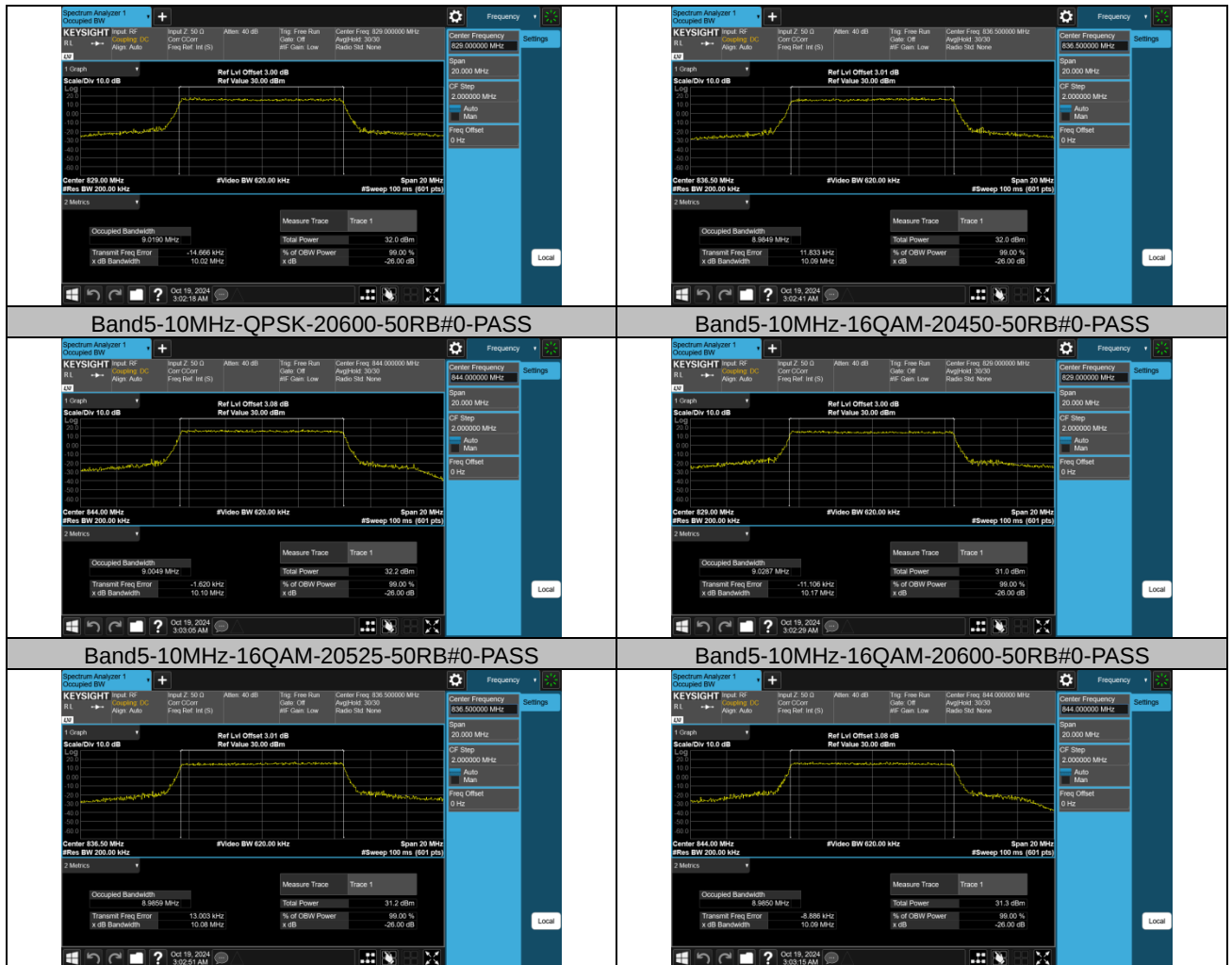






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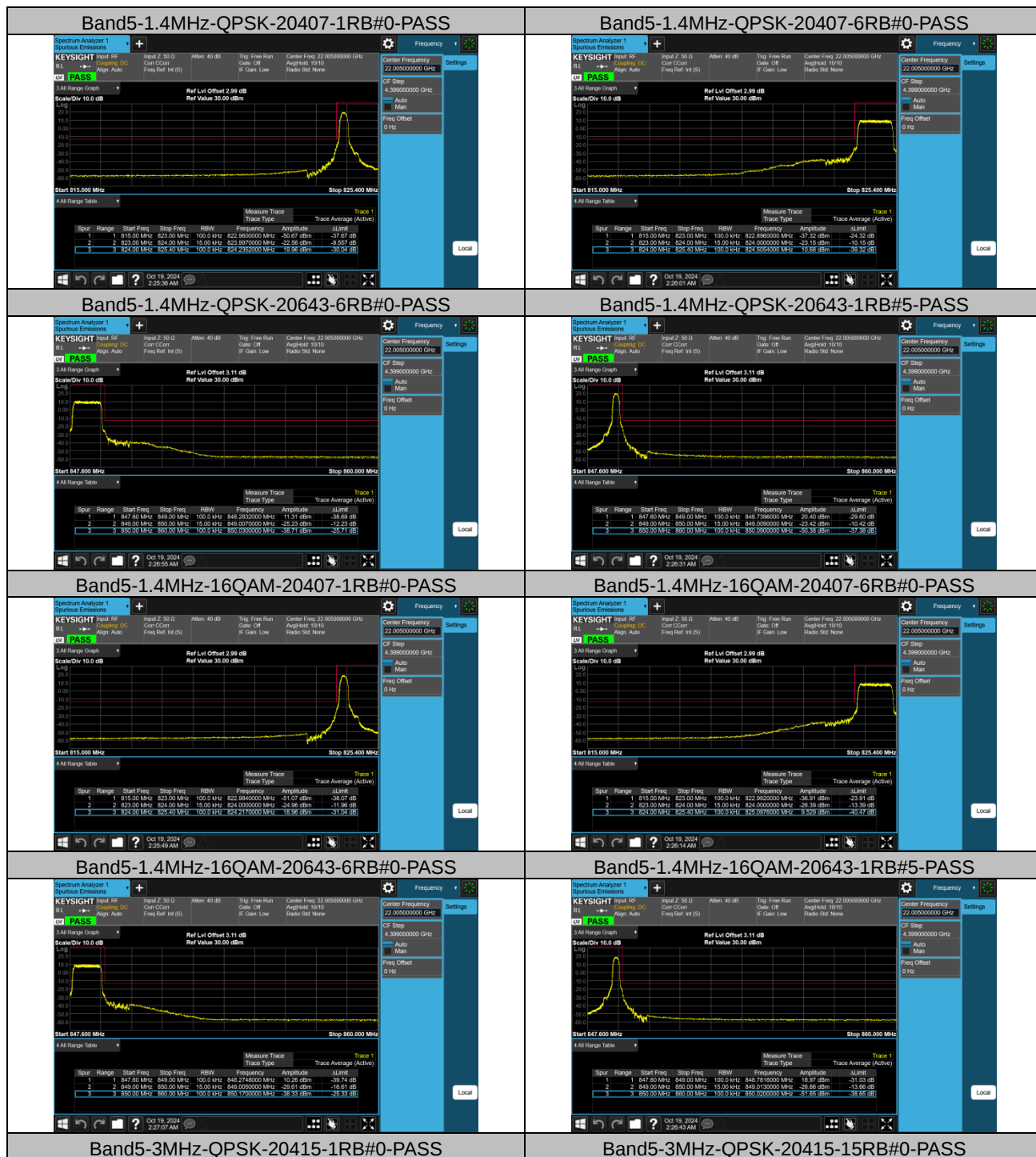


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-22.56	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-23.15	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-25.23	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-23.42	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-24.96	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-26.39	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-29.61	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-26.66	PASS
Band5	3MHz	QPSK	20415	1RB#0	-25.58	PASS
Band5	3MHz	QPSK	20415	15RB#0	-29.21	PASS
Band5	3MHz	QPSK	20635	15RB#0	-29.59	PASS
Band5	3MHz	QPSK	20635	1RB#14	-24.83	PASS
Band5	3MHz	16QAM	20415	1RB#0	-26.95	PASS
Band5	3MHz	16QAM	20415	15RB#0	-30.06	PASS
Band5	3MHz	16QAM	20635	15RB#0	-31.26	PASS
Band5	3MHz	16QAM	20635	1RB#14	-26.51	PASS
Band5	5MHz	QPSK	20425	1RB#0	-27.61	PASS
Band5	5MHz	QPSK	20425	25RB#0	-31.04	PASS
Band5	5MHz	QPSK	20625	25RB#0	-33.55	PASS
Band5	5MHz	QPSK	20625	1RB#24	-27.49	PASS
Band5	5MHz	16QAM	20425	1RB#0	-29.14	PASS
Band5	5MHz	16QAM	20425	25RB#0	-32.11	PASS
Band5	5MHz	16QAM	20625	25RB#0	-33.27	PASS
Band5	5MHz	16QAM	20625	1RB#24	-27.78	PASS
Band5	10MHz	QPSK	20450	1RB#0	-37.22	PASS
Band5	10MHz	QPSK	20450	50RB#0	-35.21	PASS
Band5	10MHz	QPSK	20600	50RB#0	-37.04	PASS
Band5	10MHz	QPSK	20600	1RB#49	-36.62	PASS
Band5	10MHz	16QAM	20450	1RB#0	-38.15	PASS
Band5	10MHz	16QAM	20450	50RB#0	-35.77	PASS
Band5	10MHz	16QAM	20600	50RB#0	-37.38	PASS
Band5	10MHz	16QAM	20600	1RB#49	-38.08	PASS

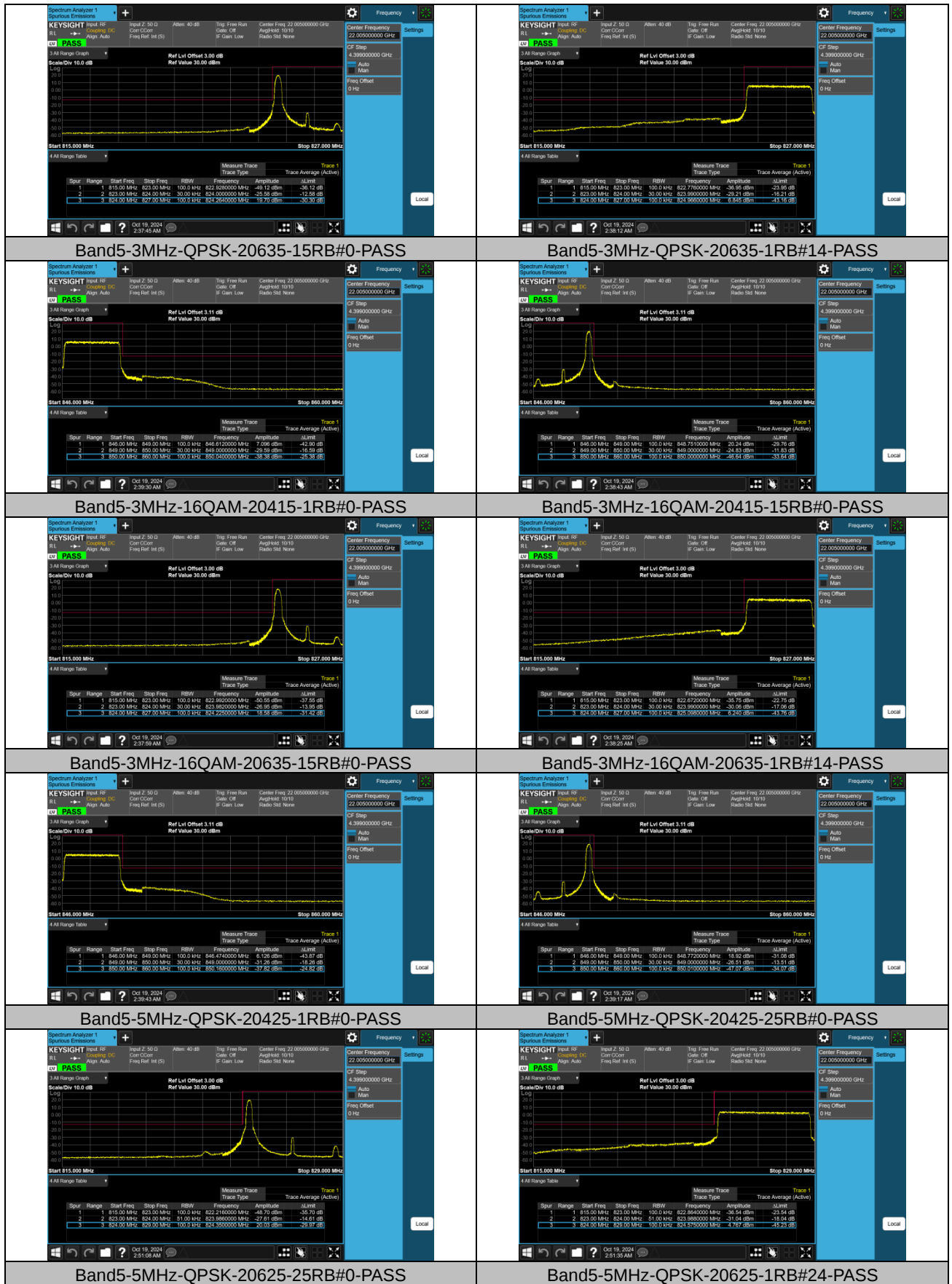
Test Graphs





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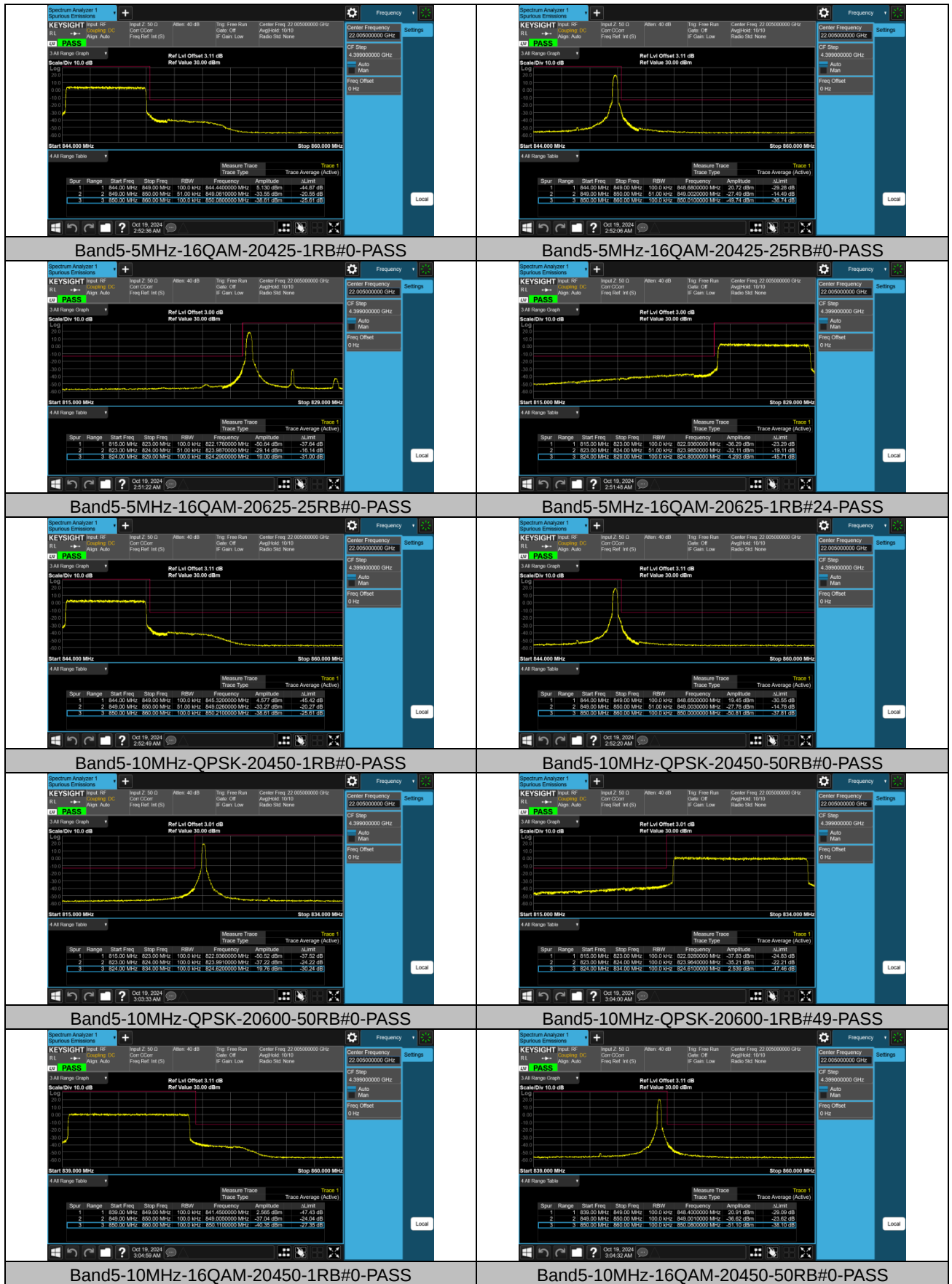
Test Report No.: W7L-P24090006RF04





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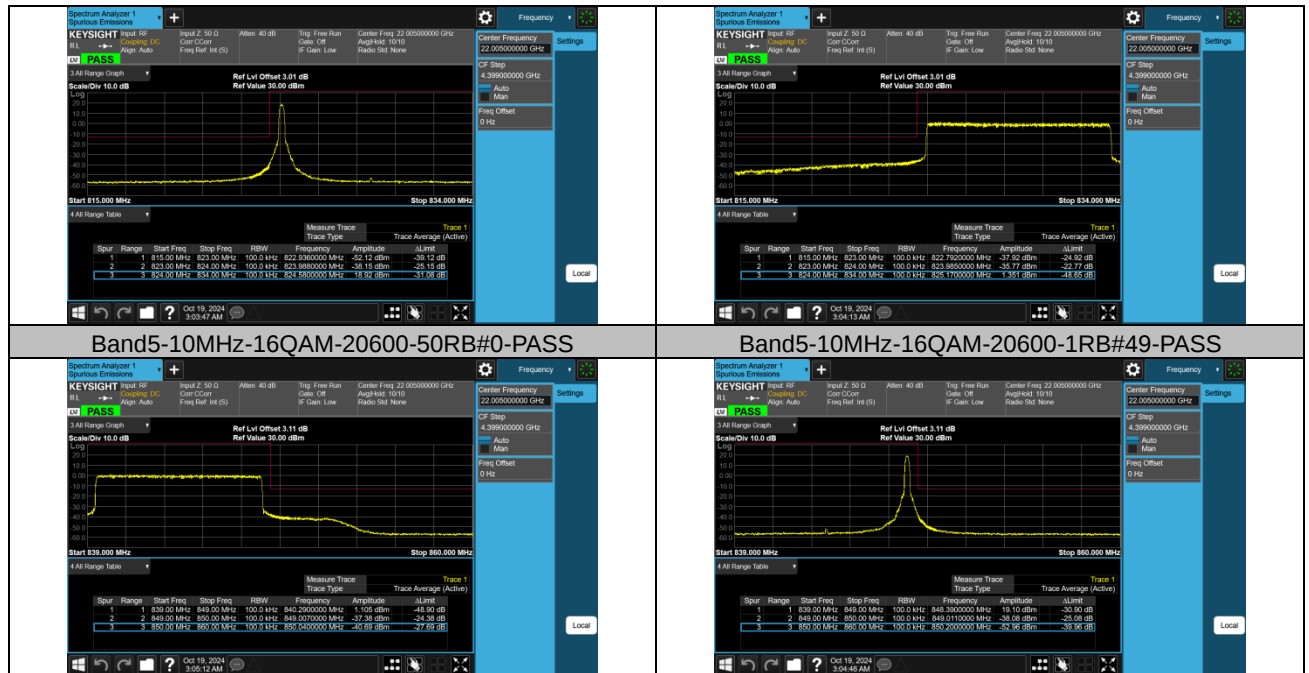
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CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	30~1000	-40.82	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	1000~10000	-33.40	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-40.90	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~10000	-35.71	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	30~1000	-41.27	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	1000~10000	-33.25	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	30~1000	-41.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	1000~10000	-32.55	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-40.95	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~10000	-35.39	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	30~1000	-40.75	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	1000~10000	-32.77	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	30~1000	-40.65	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	1000~10000	-32.86	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-41.50	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~10000	-35.30	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	30~1000	-41.35	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	1000~10000	-32.88	PASS
Band5	3MHz	QPSK	20415	1RB#0	30~1000	-41.08	PASS
Band5	3MHz	QPSK	20415	1RB#0	1000~10000	-33.43	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-40.91	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~10000	-36.14	PASS
Band5	3MHz	QPSK	20415	1RB#14	30~1000	-41.55	PASS
Band5	3MHz	QPSK	20415	1RB#14	1000~10000	-33.07	PASS
Band5	3MHz	QPSK	20525	1RB#0	30~1000	-41.21	PASS
Band5	3MHz	QPSK	20525	1RB#0	1000~10000	-32.68	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-41.44	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~10000	-36.03	PASS
Band5	3MHz	QPSK	20525	1RB#14	30~1000	-41.03	PASS
Band5	3MHz	QPSK	20525	1RB#14	1000~10000	-32.76	PASS
Band5	3MHz	QPSK	20635	1RB#0	30~1000	-41.34	PASS
Band5	3MHz	QPSK	20635	1RB#0	1000~10000	-32.79	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-41.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~10000	-36.26	PASS
Band5	3MHz	QPSK	20635	1RB#14	30~1000	-40.74	PASS
Band5	3MHz	QPSK	20635	1RB#14	1000~10000	-32.18	PASS
Band5	5MHz	QPSK	20425	1RB#0	30~1000	-41.41	PASS
Band5	5MHz	QPSK	20425	1RB#0	1000~10000	-33.27	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-41.08	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~10000	-36.15	PASS
Band5	5MHz	QPSK	20425	1RB#24	30~1000	-41.38	PASS
Band5	5MHz	QPSK	20425	1RB#24	1000~10000	-33.49	PASS
Band5	5MHz	QPSK	20525	1RB#0	30~1000	-41.33	PASS
Band5	5MHz	QPSK	20525	1RB#0	1000~10000	-33.32	PASS

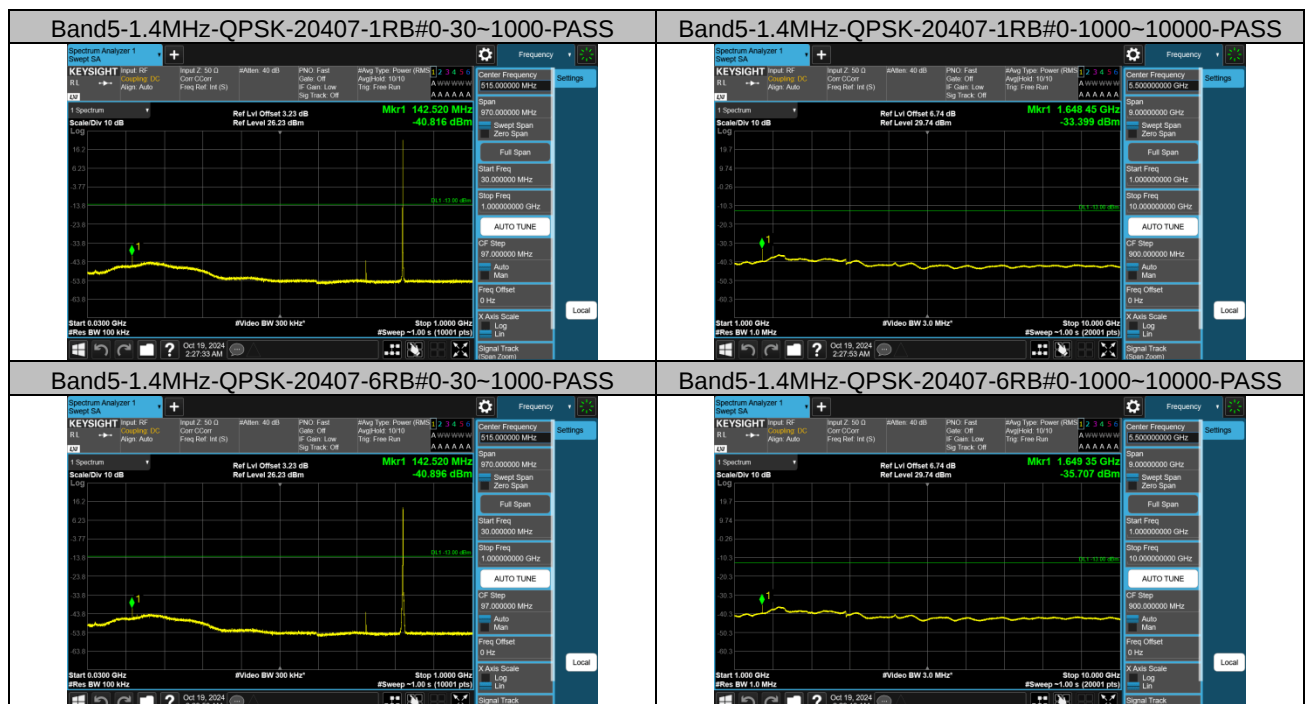


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Band5	5MHz	QPSK	20525	25RB#0	30~1000	-41.51	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~10000	-36.13	PASS
Band5	5MHz	QPSK	20525	1RB#24	30~1000	-41.15	PASS
Band5	5MHz	QPSK	20525	1RB#24	1000~10000	-32.49	PASS
Band5	5MHz	QPSK	20625	1RB#0	30~1000	-41.14	PASS
Band5	5MHz	QPSK	20625	1RB#0	1000~10000	-32.44	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-41.20	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~10000	-36.10	PASS
Band5	5MHz	QPSK	20625	1RB#24	30~1000	-40.75	PASS
Band5	5MHz	QPSK	20625	1RB#24	1000~10000	-32.22	PASS
Band5	10MHz	QPSK	20450	1RB#0	30~1000	-40.90	PASS
Band5	10MHz	QPSK	20450	1RB#0	1000~10000	-33.19	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-41.26	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~10000	-36.18	PASS
Band5	10MHz	QPSK	20450	1RB#49	30~1000	-40.86	PASS
Band5	10MHz	QPSK	20450	1RB#49	1000~10000	-32.89	PASS
Band5	10MHz	QPSK	20525	1RB#0	30~1000	-41.42	PASS
Band5	10MHz	QPSK	20525	1RB#0	1000~10000	-32.85	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-41.04	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~10000	-36.15	PASS
Band5	10MHz	QPSK	20525	1RB#49	30~1000	-41.46	PASS
Band5	10MHz	QPSK	20525	1RB#49	1000~10000	-32.37	PASS
Band5	10MHz	QPSK	20600	1RB#0	30~1000	-40.87	PASS
Band5	10MHz	QPSK	20600	1RB#0	1000~10000	-32.46	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-41.37	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~10000	-36.15	PASS
Band5	10MHz	QPSK	20600	1RB#49	30~1000	-40.95	PASS
Band5	10MHz	QPSK	20600	1RB#49	1000~10000	-32.79	PASS

Test Graphs



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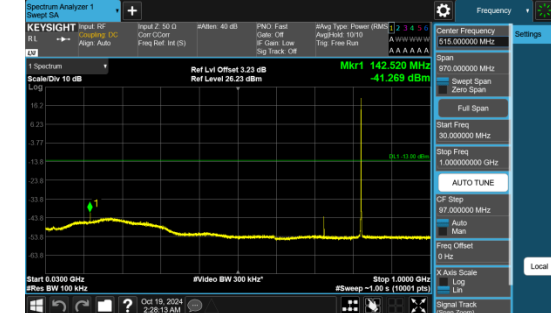
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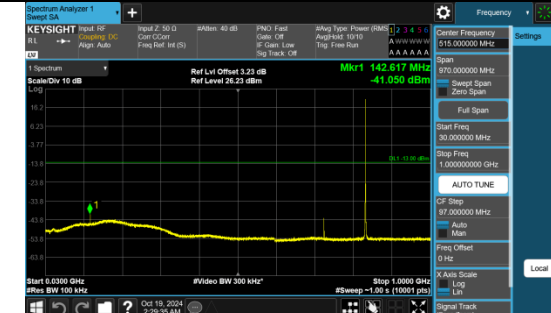
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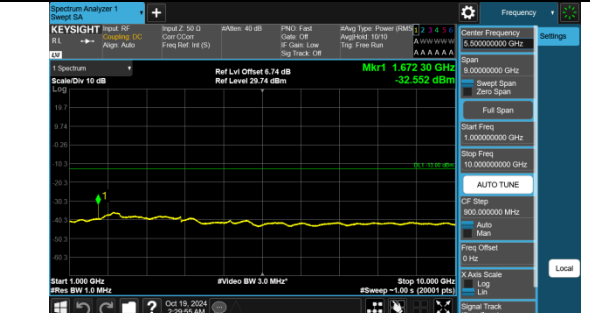
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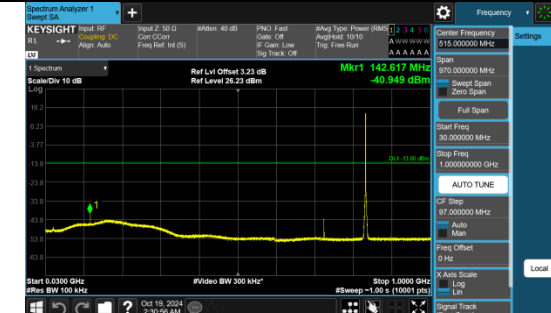
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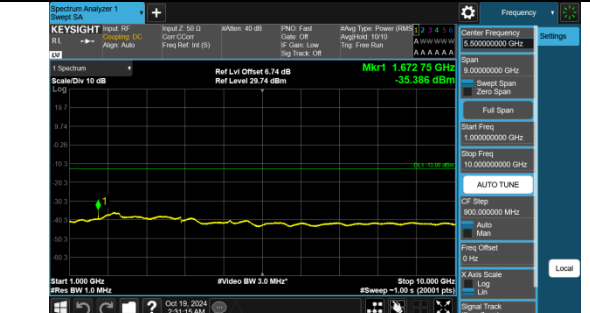
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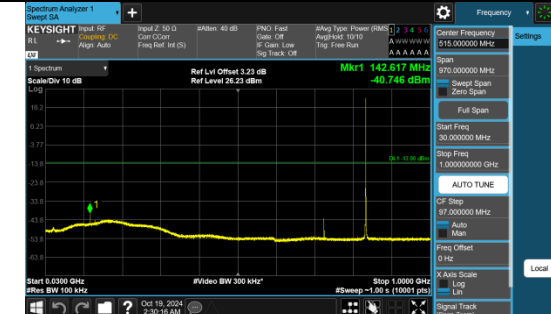
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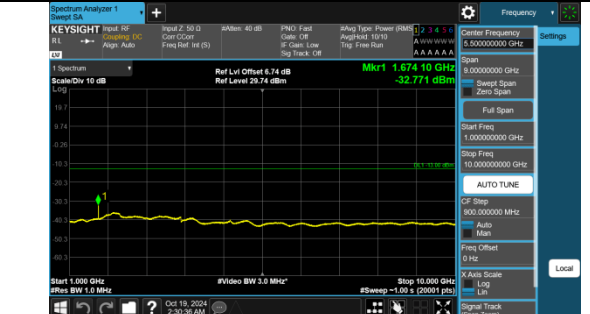
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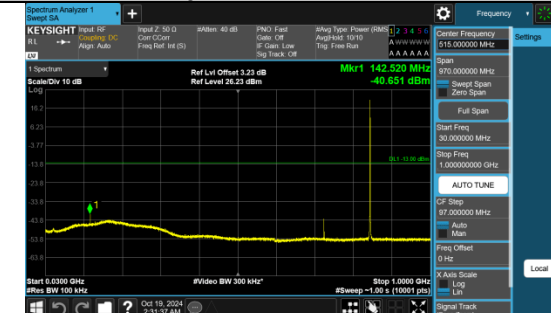
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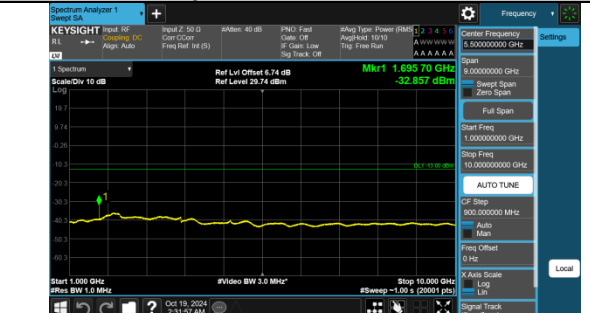
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Band5-1.4MHz-QPSK-20643-1RB#0-30-1000-PASS



Band5-1.4MHz-QPSK-20643-1RB#0-1000-10000-PASS



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Band5-1.4MHz-QPSK-20643-6RB#0-30~1000-PASS



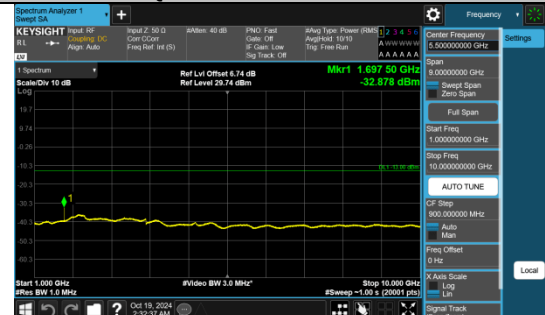
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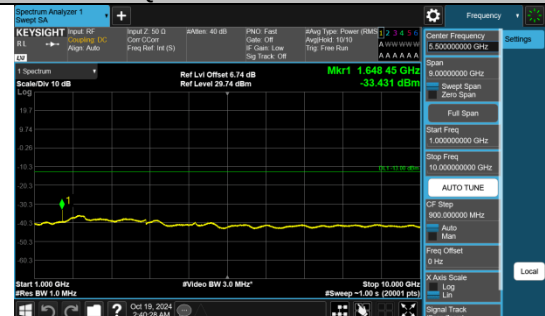
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Band5-3MHz-QPSK-20415-15RB#0-30~1000-PASS



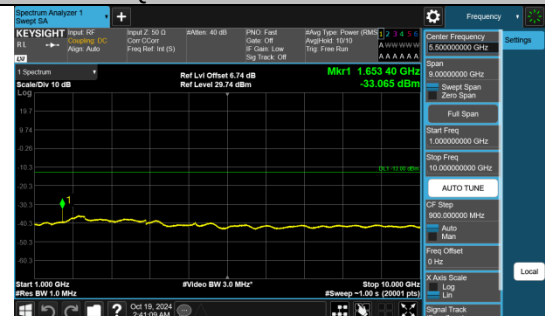
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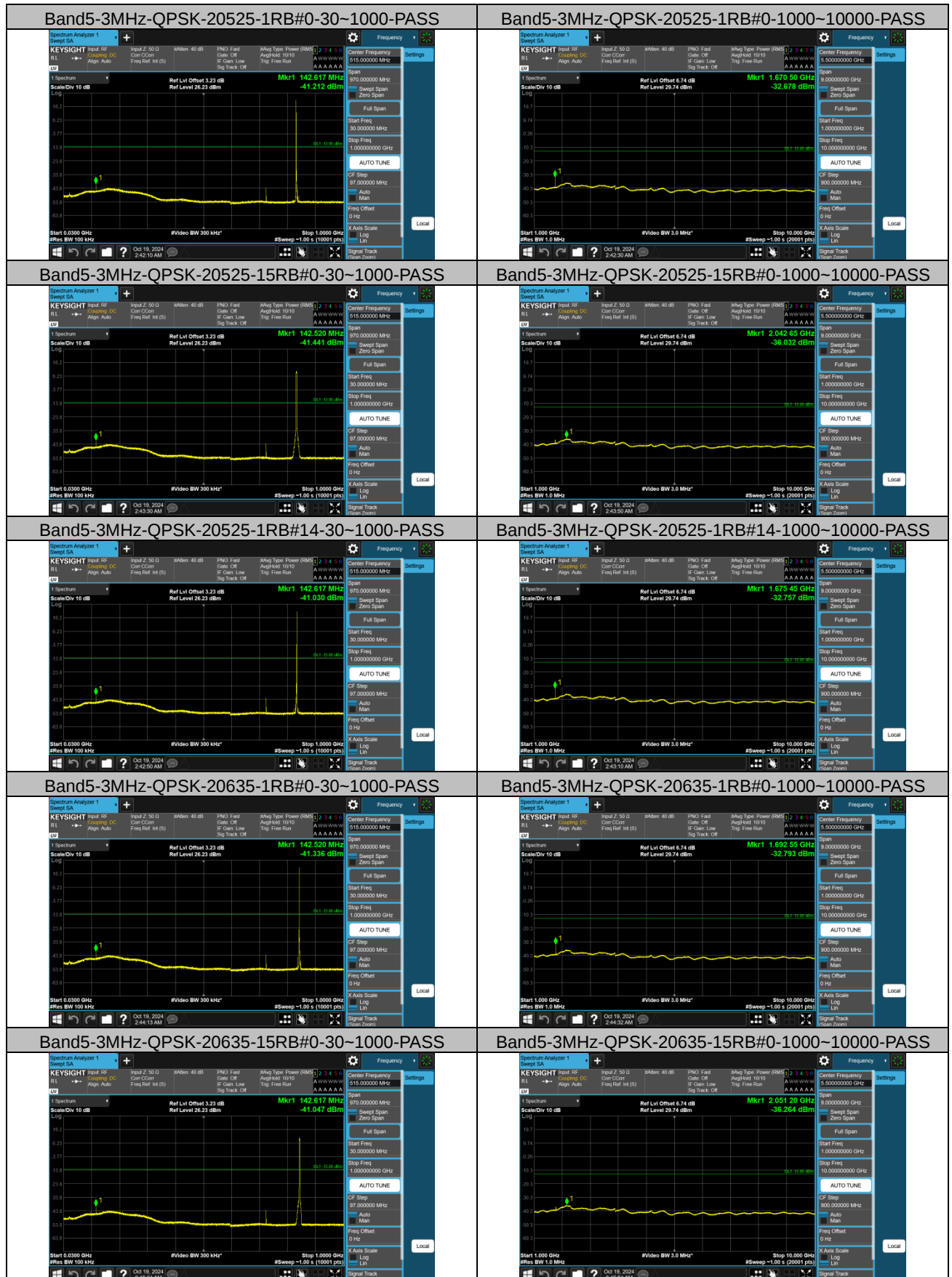
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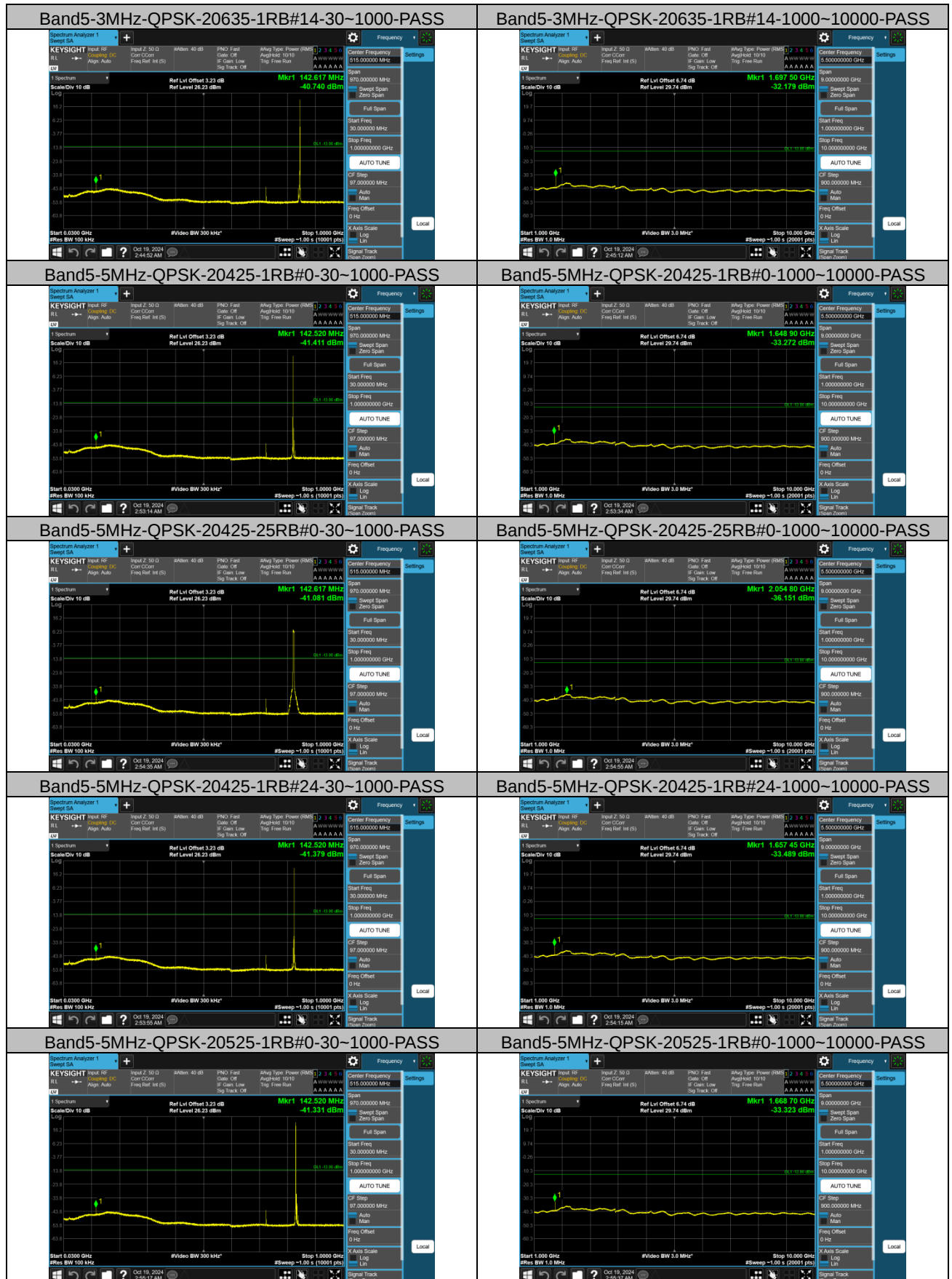
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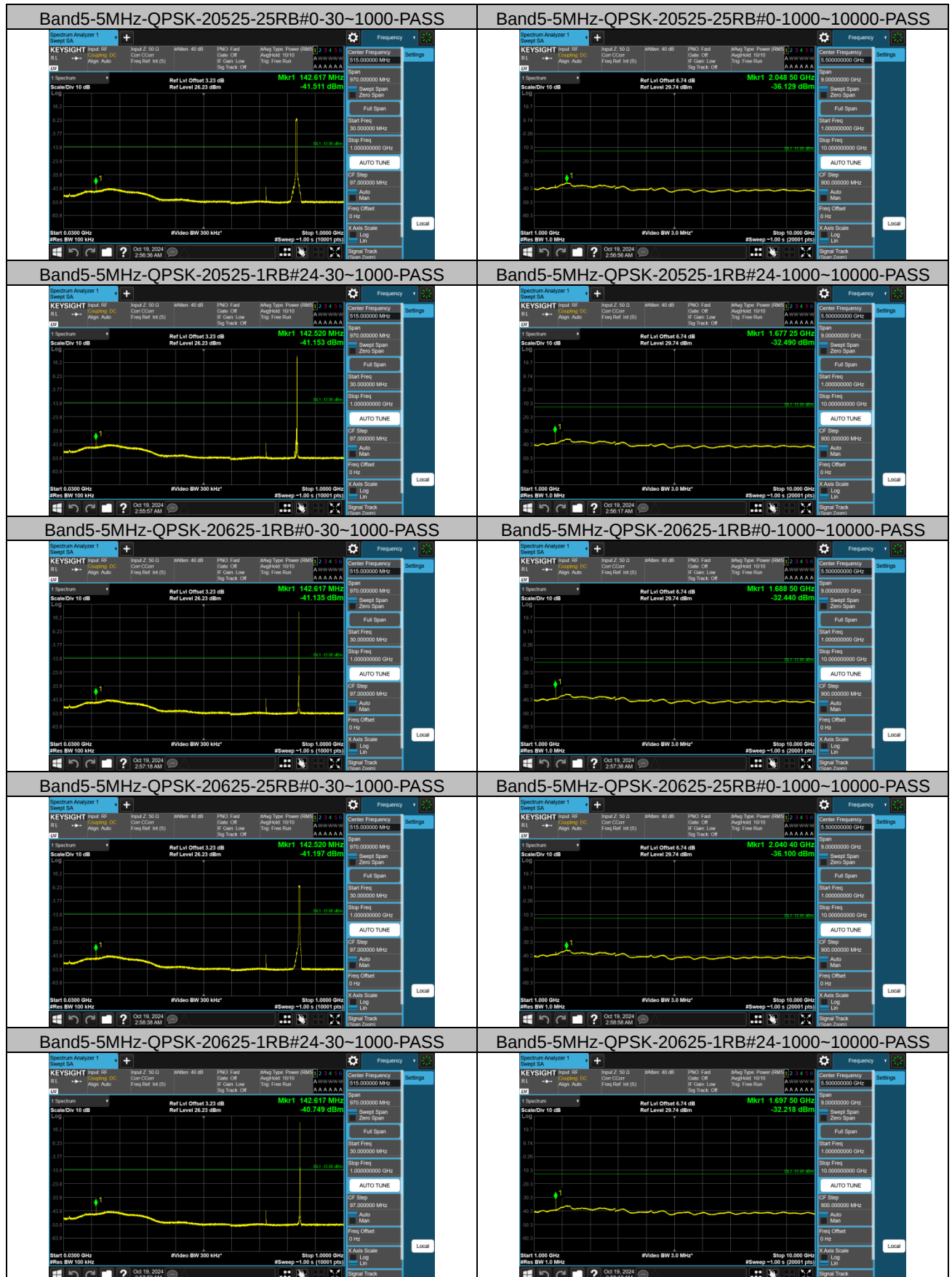
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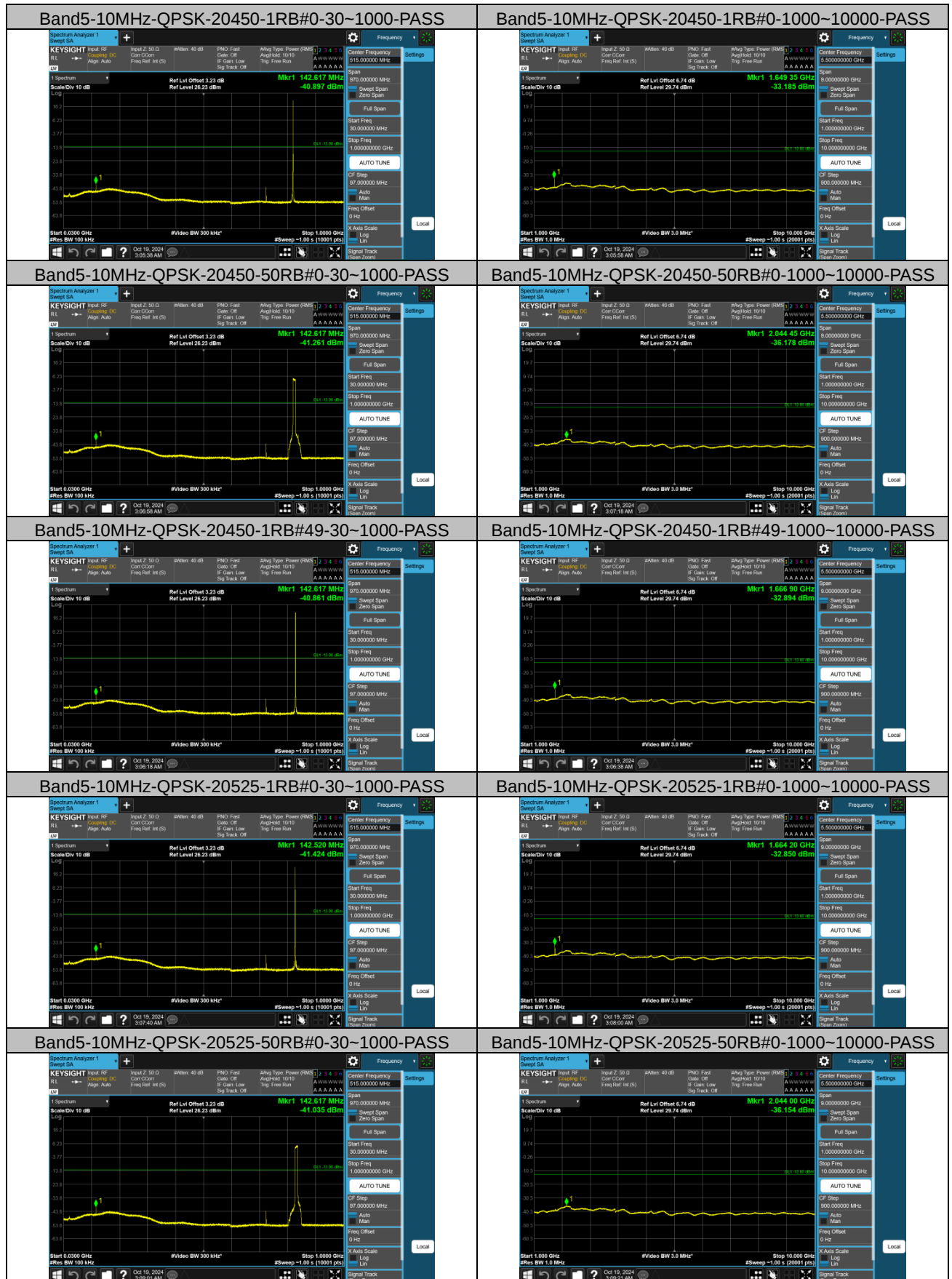
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