

FCC TEST REPORT

(PART 22)

Applicant:	KYOCERA Corporation
Address:	Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan

Manufacturer or Supplier:	KYOCERA Corporation
Address:	Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan
Product:	Mobile Phone
Brand Name:	KYOCERA
Model Name:	EB1236
FCC ID	JOYEB1236
Date of tests	May. 13, 2026 - Jul. 02, 2026

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

☒ FCC PART 22, Subpart H
☒ ANSI/TIA/EIA-603-D
☒ ANSI/TIA/EIA-603-E

☒ FCC Part 2
☒ ANSI C63.26-2015

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

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Engineer / Mobile Department

Approved by Simon Wang
Manager / Mobile Department

Carl Xie

Simon Wang

Date: Jul. 02, 2026

Date: Jul. 02, 2026

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260626B001	Original release	Jul. 02, 2026



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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	Test lab*
§2.1046	Conducted Output Power	Compliance	A
§22.913 (a)(5)	Effective Radiated Power	Compliance	A
§2.1055 §22.355	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§22.913 (d)	Peak to average ratio*	Compliance	A
§2.1051 §22.917(a)	Band Edge Measurements	Compliance	A
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance	A
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance	A

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

*Test Lab Information Reference

Lab A:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

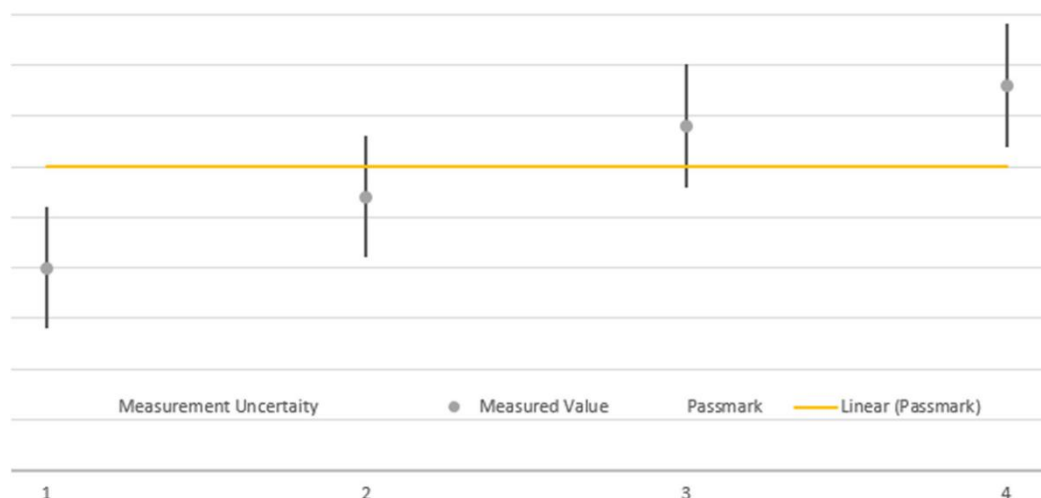
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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 $k=2$.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

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1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	2025/7/3	2027/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2027/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2027/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2027/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2027/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2027/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2027/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2027/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2027/7/1
HIGH pass FILTER 1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2027/6/29
HIGH pass FILTER 7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2027/6/29
HIGH pass FILTER 3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2027/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2027/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2027/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2025/6/30	2027/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2025/6/30	2027/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2025/6/16	2027/6/15
DC Power Supply	AGILENT	HMP2020	100598	2025/7/1	2027/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2027/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2027/6/29
hygrothermograph	Anymetrers	----	TH101B	2025/7/22	2027/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/1	2027/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2027/6/29



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NOTE:

1. The calibration interval of the above test instruments is 24 months and the calibrations are traceable to CEPREI/CHINA, GREGT/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 646781; The Designation No. is CN1429.

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	
BRAND NAME	KYOCERA	
MODEL NAME	EB1236	
NOMINAL VOLTAGE	3.89Vdc	
MODULATION TYPE	GSM	GMSK
	WCDMA	QPSK, 16QAM
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	GSM	824.2MHz ~ 848.8MHz
	WCDMA	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	GSM850	885.12mW
	WCDMA B5	168.27mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	91.20mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	88.92mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	90.57mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	91.41mW
EMISSION DESIGNATOR GGN	GSM850	3K14GXW
	WCDMA B5	4M71F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M11G7D
		16QAM: 1M11W7D
		64QAM: 1M10W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M71G7D
		16QAM: 2M72W7D
		64QAM: 2M71W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M53G7D
		16QAM: 4M53W7D
		64QAM: 4M53W7D
	LTE Band 5	QPSK: 9M03G7D

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

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4th Road, Chiwan Community, Zhaoshang Street,
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	(Channel Bandwidth: 10MHz)	16QAM: 9M00W7D
		64QAM: 9M00W7D
ANTENNA GAIN	☒ Provided by client	
	GSM850	-1.8dBi
	WCDMA V	-1.8dBi
	LTE B5	-1.8dBi
ANTENNA TYPE	Monopole	
HW VERSION	DMT2	
SW VERSION	V0.252EX.0052.a	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-20°C-60°C	
EXTREME VOLTAGE	3.501V-4.279V	

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 one/two receivers.

MODULATION MODE	TX FUNCTION
GSM	1TX/1RX
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 the test report.
- According to the Statement of differences provided by the applicant, the procurement of memory from multiple suppliers. EB1236 source MCP(ROM and RAM) from two different vendors each and use them interchangeably. MCP is procured from Micron and Samsung.

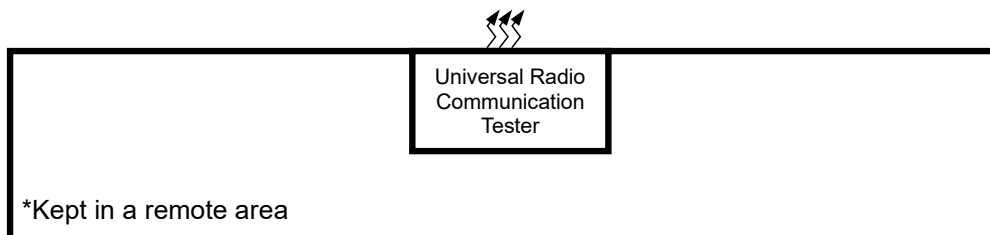
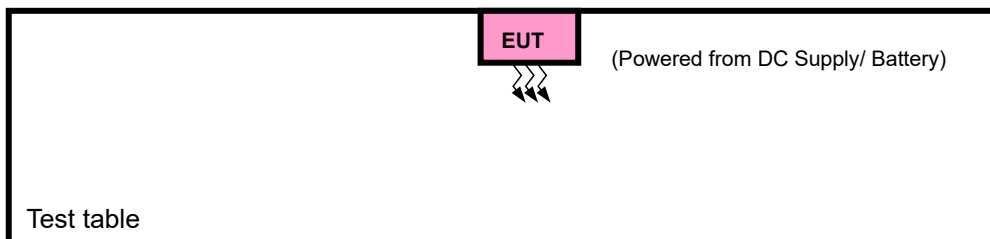
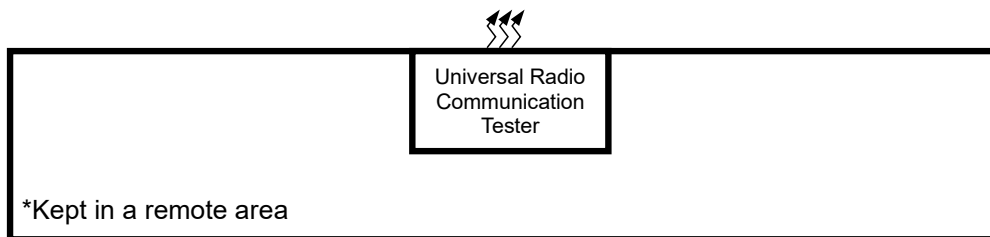
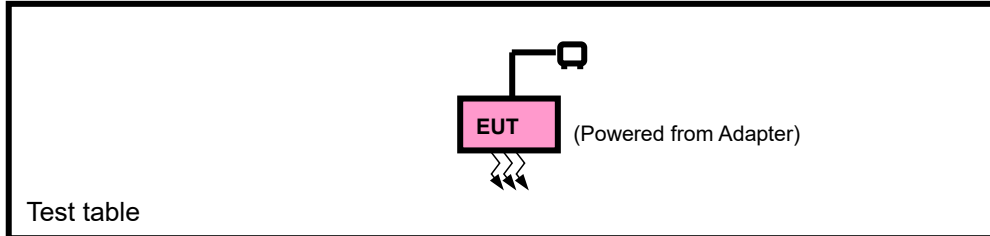
MCP(ROM and RAM)

Micron: MT30AZZZCD94TKXL-023 W.237

Samsung: KM9YC001XM-B627

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION



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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	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	Adapter	Juniper	MK-P301EXC	N/A	N/A
3	Earphone	Xiaomi	N/A	N/A	N/A

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

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 GSM /EDGE /WCDMA /LTE. Following channel(s) was (were) selected for the final test as listed below:

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

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	MODE
A	ERP	128 to 251	128, 189, 251	GSM,EDGE
B	FREQUENCY STABILITY	128 to 251	128, 189, 251	GSM,EDGE
A	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM,EDGE
A	BAND EDGE	128 to 251	128, 251	GSM,EDGE
A	CONDUCTED EMISSION	128 to 251	128, 189, 251	GSM,EDGE
A	RADIATED EMISSION	128 to 251	128, 189, 251	GSM,EDGE
A	PEAK TO AVERAGE RATIO	128 to 251	128, 189, 251	GSM,EDGE

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	CONDCUDED 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

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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, 20600	10MHz	QPSK,16QAM,64QAM	Full RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	Full RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	Full RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	Full RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	Full RB / 0 RB Offset
A	BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20407 to 20643	20643	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 5 RB Offset Full RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20415 to 20635	20635	3 MHz	QPSK,16QAM,64QAM	1 RB / 14 RB Offset Full RB / 0 RB Offset
		20425 to 20625	20425	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20425 to 20625	20625	5MHz	QPSK,16QAM,64QAM	1 RB / 24 RB Offset Full RB / 0 RB Offset
		20450 to 20600	20450	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20450 to 20600	20600	10MHz	QPSK,16QAM,64QAM	1 RB / 49 RB Offset Full RB / 0 RB Offset
		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	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,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	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.

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 3.89V By Battery	Carl Xie
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.89V By Battery	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.89V By Battery	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 3.89V By Battery	Alan Yu
CONDUCTED EMISSION	23deg. C, 70%RH	DC 3.89V By Battery	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	DC 3.89V By Battery	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.89V By Battery	Alan Yu

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

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:

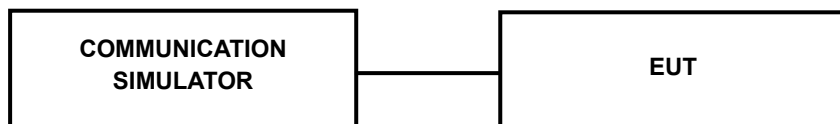
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Test Report No.: RF260626B001

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm):

Band	GSM850					
	Burst Averaged Power			Frame Averaged Power		
Channel	128	189	251	128	189	251
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
GSM	33.26	33.30	33.35	24.26	24.30	24.35
GPRS 1Tx Slot	33.30	33.32	33.42	24.30	24.32	24.42
GPRS 2Tx Slot	30.47	30.40	30.56	24.47	24.40	24.56
GPRS 3Tx Slot	28.58	28.90	28.98	24.32	24.64	24.72
GPRS 4Tx Slot	26.89	27.30	27.46	23.89	24.30	24.46

Band	WCDMA V		
TX Channel	4132	4182	4233
Rx Channel	4357	4407	4458
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.88	23.91	24.06
HSDPA Subtest-1	22.97	22.79	22.80
HSDPA Subtest-2	22.47	22.33	22.25
HSDPA Subtest-3	22.46	22.28	22.25
HSDPA Subtest-4	22.74	22.71	22.78
HSUPA Subtest-1	22.87	22.88	23.01
HSUPA Subtest-2	20.86	20.73	20.69
HSUPA Subtest-3	21.83	21.59	21.58
HSUPA Subtest-4	20.44	20.30	20.29
HSUPA Subtest-5	21.75	21.63	21.50

Test Report No.: RF260626B001

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10	QPSK	1	0	23.44	23.53	23.56
		1	24	23.41	23.51	23.26
		1	49	23.29	23.42	23.08
		25	0	22.51	22.54	22.59
		25	12	22.48	22.44	22.35
		25	25	22.44	22.51	22.21
		50	0	22.41	22.43	22.49
	16QAM	1	0	22.54	22.77	22.80
		1	24	22.65	22.79	22.72
		1	49	22.55	22.59	22.38
		25	0	21.45	21.57	21.41
		25	12	21.54	21.63	21.48
		25	25	21.59	21.49	21.32
		50	0	21.50	21.56	21.47
	64QAM	1	0	21.55	21.62	21.72
		1	24	21.72	21.92	21.71
		1	49	21.70	21.71	21.54
		25	0	20.47	20.57	20.44
		25	12	20.58	20.60	20.45
		25	25	20.53	20.56	20.26
		50	0	20.46	20.60	20.47
BW [MHz]	Modulation	Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5	QPSK	1	0	23.30	23.52	23.44
		1	12	23.30	23.47	23.18
		1	24	23.24	23.30	23.01
		12	0	22.42	22.46	22.34
		12	6	22.45	22.41	22.27
		12	13	22.43	22.47	22.08
		25	0	22.35	22.31	22.35
	16QAM	1	0	22.39	22.76	22.79
		1	12	22.63	22.64	22.57
		1	24	22.51	22.52	22.30
		12	0	21.35	21.51	21.37
		12	6	21.40	21.61	21.39
		12	13	21.51	21.46	21.23
		25	0	21.44	21.49	21.42
	64QAM	1	0	21.40	21.52	21.65
		1	12	21.67	21.77	21.63

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		1	24	21.69	21.64	21.42
		12	0	20.38	20.47	20.41
		12	6	20.45	20.49	20.35
		12	13	20.41	20.53	20.22
		25	0	20.42	20.50	20.46
BW [MHz]	Modulation	Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3	QPSK	1	0	23.42	23.38	23.44
		1	7	23.28	23.43	23.20
		1	14	23.26	23.28	23.03
		8	0	22.36	22.55	22.28
		8	3	22.42	22.40	22.33
		8	7	22.35	22.42	22.15
		15	0	22.26	22.39	22.39
	16QAM	1	0	22.43	22.70	22.67
		1	7	22.61	22.73	22.66
		1	14	22.47	22.56	22.33
		8	0	21.38	21.48	21.30
		8	3	21.45	21.59	21.38
		8	7	21.56	21.39	21.27
		15	0	21.47	21.47	21.43
	64QAM	1	0	21.41	21.53	21.65
		1	7	21.70	21.81	21.69
		1	14	21.65	21.67	21.44
		8	0	20.42	20.44	20.37
		8	3	20.48	20.47	20.31
		8	7	20.40	20.43	20.22
		15	0	20.35	20.56	20.46
BW [MHz]	Modulation	Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4	QPSK	1	0	23.38	23.39	23.55
		1	2	23.29	23.41	23.21
		1	5	23.19	23.33	22.95
		3	0	23.24	23.37	23.23
		3	1	23.25	23.18	23.11
		3	3	23.11	23.29	22.95
		6	0	22.30	22.33	22.48
	16QAM	1	0	22.48	22.75	22.75
		1	2	22.59	22.73	22.66
		1	5	22.44	22.48	22.37
		3	0	22.23	22.24	22.17
		3	1	22.28	22.44	22.18
		3	3	22.34	22.20	22.02
		6	0	21.43	21.49	21.35

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Test Report No.: RF260626B001

	64QAM	1	0	21.50	21.55	21.63
		1	2	21.71	21.77	21.62
		1	5	21.66	21.61	21.43
		3	0	21.21	21.30	21.23
		3	1	21.30	21.33	21.20
		3	3	21.28	21.27	21.00
		6	0	20.37	20.53	20.40

Test Report No.: RF260626B001

ERP POWER (dBm)

GSM850_Ant0							
Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
GPRS	128	824.2	33.30	-1.8	29.35	860.99	7
	189	836.4	33.32	-1.8	29.37	864.97	7
	251	848.8	33.42	-1.8	29.47	885.12	7

WCDMA V_Ant0						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
4132	826.4	23.88	-1.8	22.08	161.44	2
4182	836.4	23.91	-1.8	22.11	162.55	2
4233	846.6	24.06	-1.8	22.26	168.27	2

LTE Band 5_Ant 0							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	20450	829	23.44	-1.8	19.49	88.92	7
	20525	836.5	23.53	-1.8	19.58	90.78	7
	20600	844	23.56	-1.8	19.61	91.41	7
10M-16QAM	20450	829	22.65	-1.8	18.70	74.13	7
	20525	836.5	22.79	-1.8	18.84	76.56	7
	20600	844	22.80	-1.8	18.85	76.74	7
10M-64QAM	20450	829	21.72	-1.8	17.77	59.84	7
	20525	836.5	21.92	-1.8	17.97	62.66	7
	20600	844	21.72	-1.8	17.77	59.84	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
5M-QPSK	20425	826.5	23.30	-1.8	19.35	86.10	7
	20525	836.5	23.52	-1.8	19.57	90.57	7
	20625	846.5	23.44	-1.8	19.49	88.92	7
5M-16QAM	20425	826.5	22.63	-1.8	18.68	73.79	7
	20525	836.5	22.76	-1.8	18.81	76.03	7
	20625	846.5	22.79	-1.8	18.84	76.56	7
5M-64QAM	20425	826.5	21.69	-1.8	17.74	59.43	7
	20525	836.5	21.77	-1.8	17.82	60.53	7
	20625	846.5	21.65	-1.8	17.70	58.88	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)

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3M-QPSK	20415	825.5	23.42	-1.8	19.47	88.51	7
	20525	836.5	23.43	-1.8	19.48	88.72	7
	20635	847.5	23.44	-1.8	19.49	88.92	7
3M-16QAM	20415	825.5	22.61	-1.8	18.66	73.45	7
	20525	836.5	22.73	-1.8	18.78	75.51	7
	20635	847.5	22.67	-1.8	18.72	74.47	7
3M-64QAM	20415	825.5	21.70	-1.8	17.75	59.57	7
	20525	836.5	21.81	-1.8	17.86	61.09	7
	20635	847.5	21.69	-1.8	17.74	59.43	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
1.4M-QPSK	20407	824.7	23.38	-1.8	19.43	87.70	7
	20525	836.5	23.41	-1.8	19.46	88.31	7
	20643	848.3	23.55	-1.8	19.60	91.20	7
1.4M- 16QAM	20407	824.7	22.59	-1.8	18.64	73.11	7
	20525	836.5	22.75	-1.8	18.80	75.86	7
	20643	848.3	22.75	-1.8	18.80	75.86	7
1.4M- 64QAM	20407	824.7	21.71	-1.8	17.76	59.70	7
	20525	836.5	21.77	-1.8	17.82	60.53	7
	20643	848.3	21.63	-1.8	17.68	58.61	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

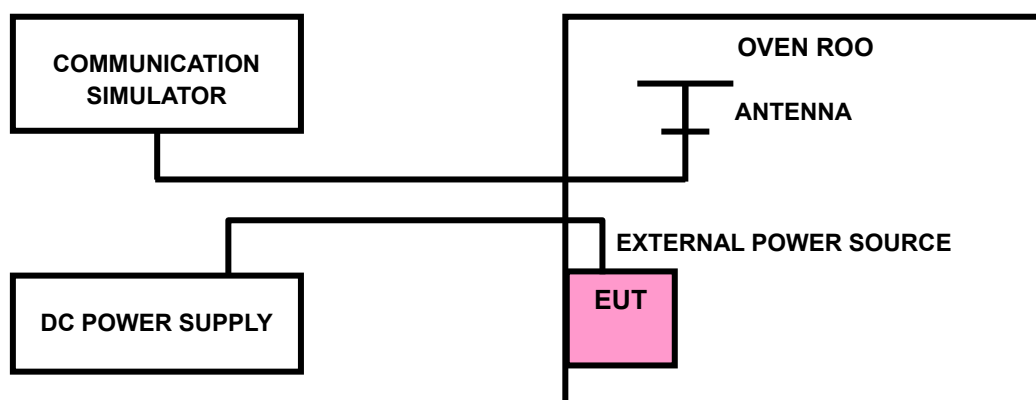
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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



3.2.4 TEST RESULTS

Please Refer to Appendix of this test report.

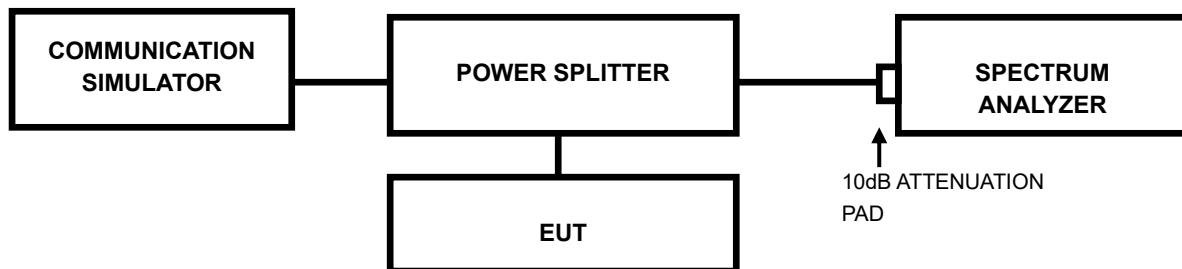
Note: VL = Low voltage(3.501V); VN/NV = Normal voltage(3.89V); VH = High voltage(4.279V); NT = Normal temperature (25°C)

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.

3.3.4 TEST RESULTS

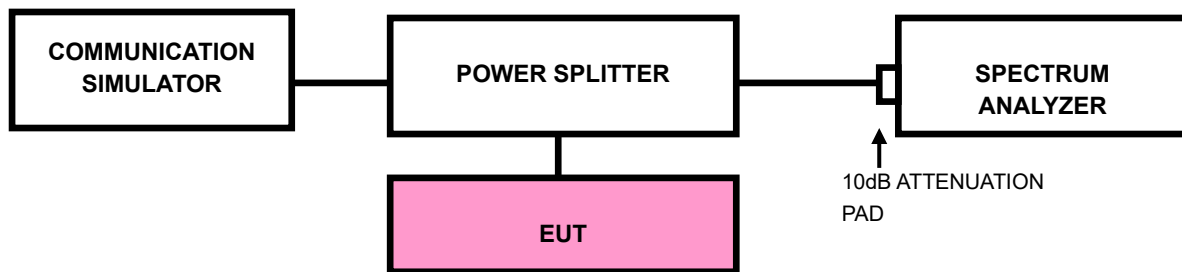
Please Refer to Appendix of this test report.

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.

3.4.4 TEST RESULTS

Please Refer to Appendix of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

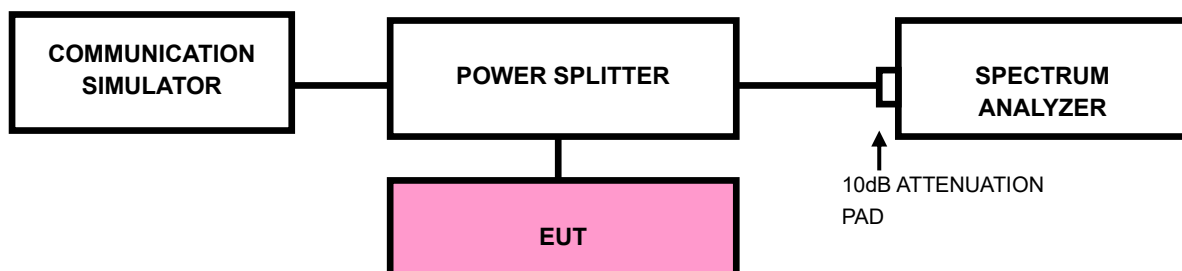
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

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



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

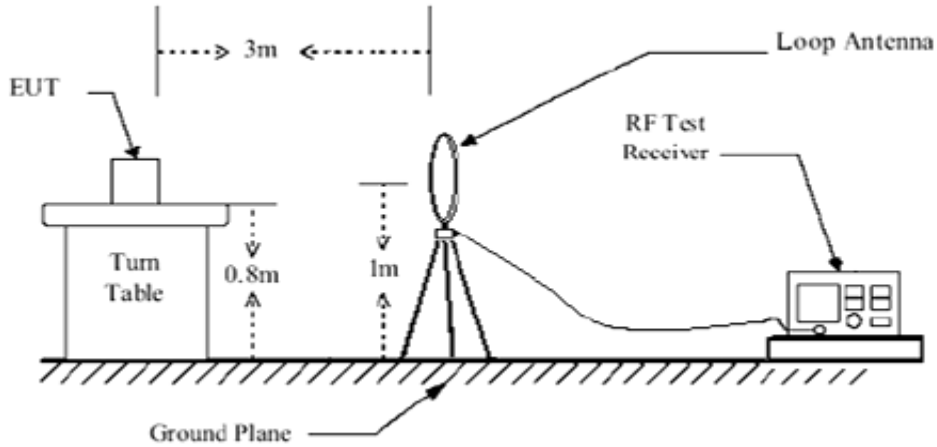
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

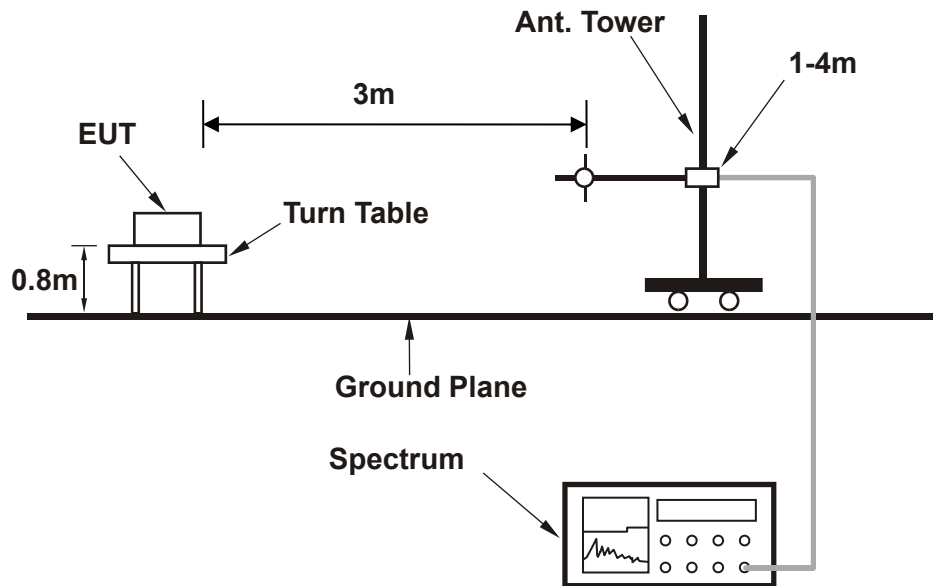
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

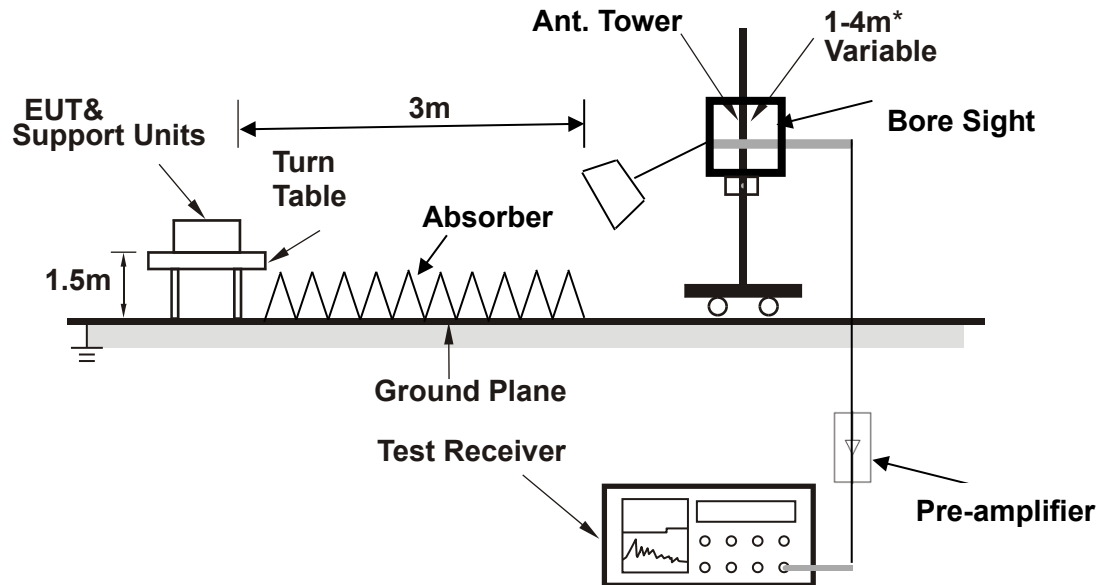
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



Test Report No.: RF260626B001
<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).



Test Report No.: RF260626B001

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.

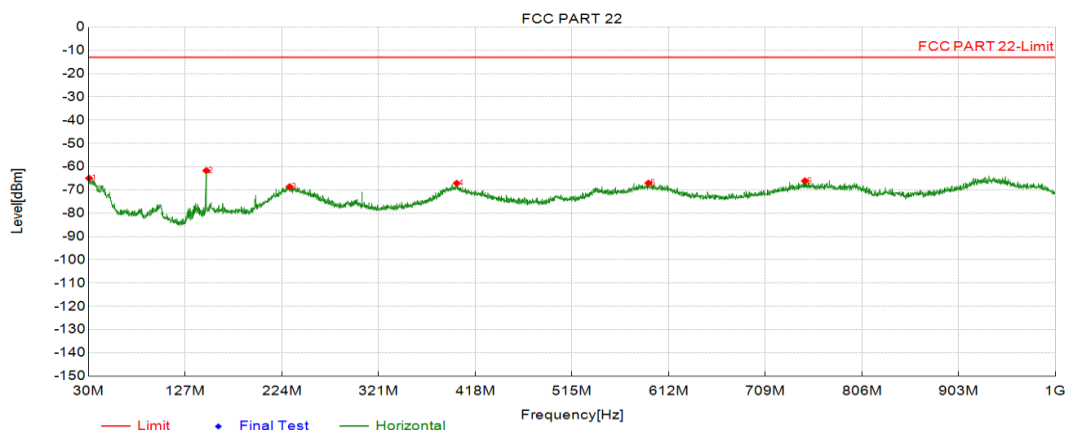
BELOW 1GHz WORST-CASE DATA

WCDMA B5			
MODE	TX channel 4132	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	30.7762	-62.81	-64.95	-2.14	-13.00	51.95	Horizon	PK	PASS
2	148.3637	-44.81	-61.68	-16.87	-13.00	48.68	Horizon	PK	PASS
3	231.8004	-63.81	-68.59	-4.78	-13.00	55.59	Horizon	PK	PASS
4	399.4499	-64.89	-67.11	-2.22	-13.00	54.11	Horizon	PK	PASS
5	591.7423	-65.92	-67.07	-1.15	-13.00	54.07	Horizon	PK	PASS
6	748.7197	-67.15	-66.09	1.06	-13.00	53.09	Horizon	PK	PASS



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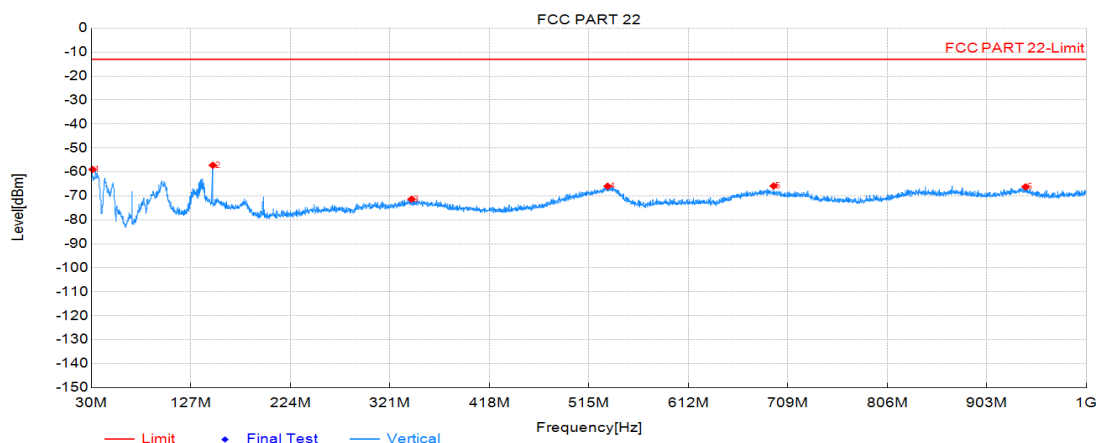
Test Report No.: RF260626B001

MODE	TX channel 4132	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

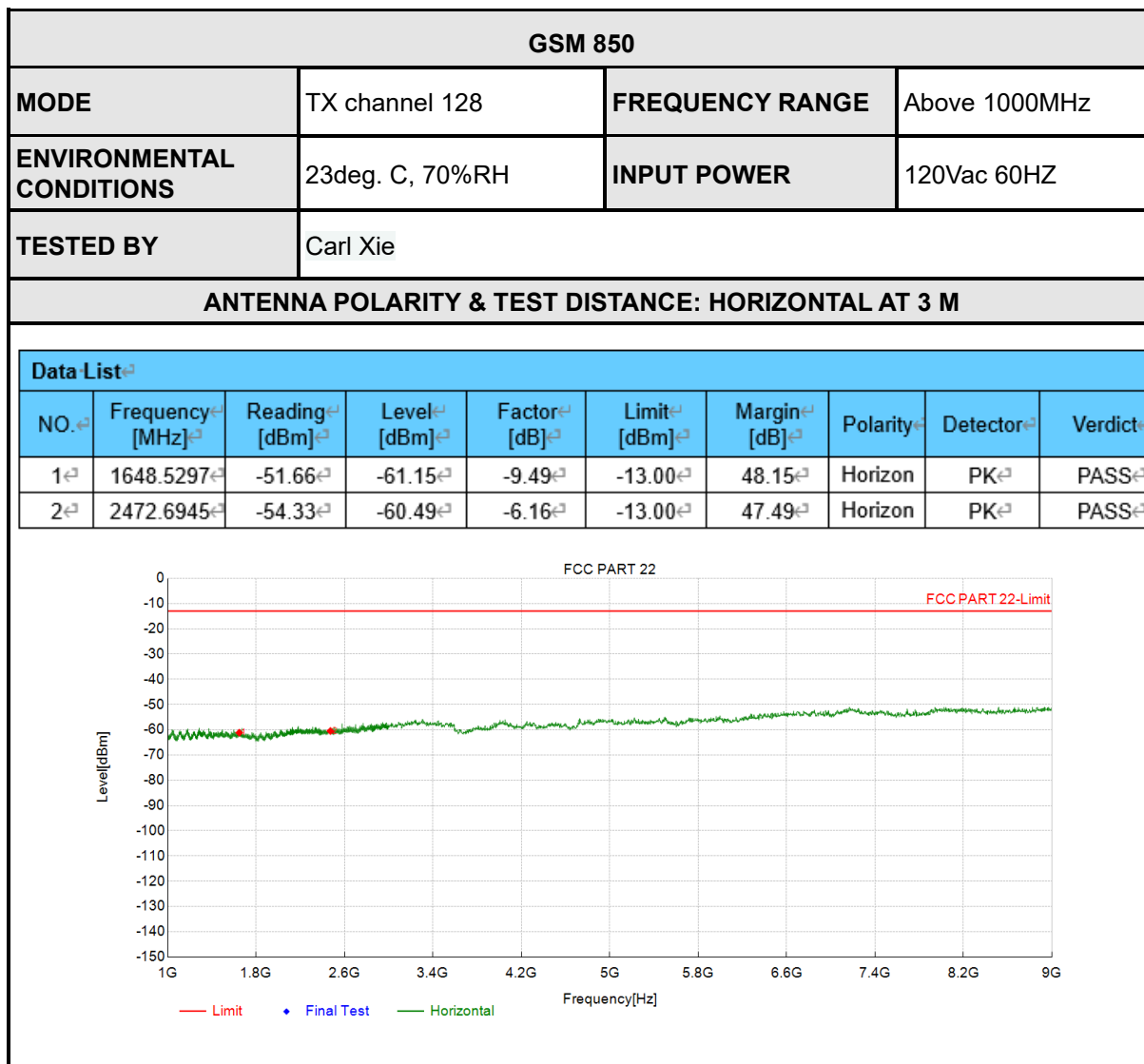
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	31.3583	-49.74	-58.95	-9.21	-13.00	45.95	Vertical	PK	PASS
2	148.5577	-47.31	-57.21	-9.90	-13.00	44.21	Vertical	PK	PASS
3	342.2084	-64.07	-71.37	-7.30	-13.00	58.37	Vertical	PK	PASS
4	533.3367	-65.71	-65.95	-0.24	-13.00	52.95	Vertical	PK	PASS
5	695.165	-65.38	-65.85	-0.47	-13.00	52.85	Vertical	PK	PASS
6	940.6241	-67.82	-66.22	1.60	-13.00	53.22	Vertical	PK	PASS



Test Report No.: RF260626B001

ABOVE 1GHz DATA

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





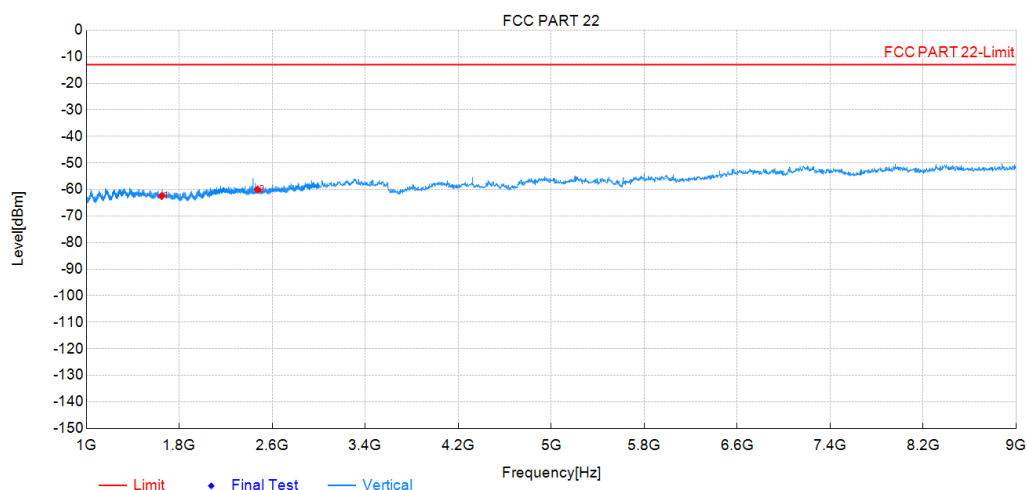
Test Report No.: RF260626B001

MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data-List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.5297	-52.90	-62.44	-9.54	-13.00	49.44	Vertical	PK	PASS
2	2472.6945	-54.00	-60.03	-6.03	-13.00	47.03	Vertical	PK	PASS



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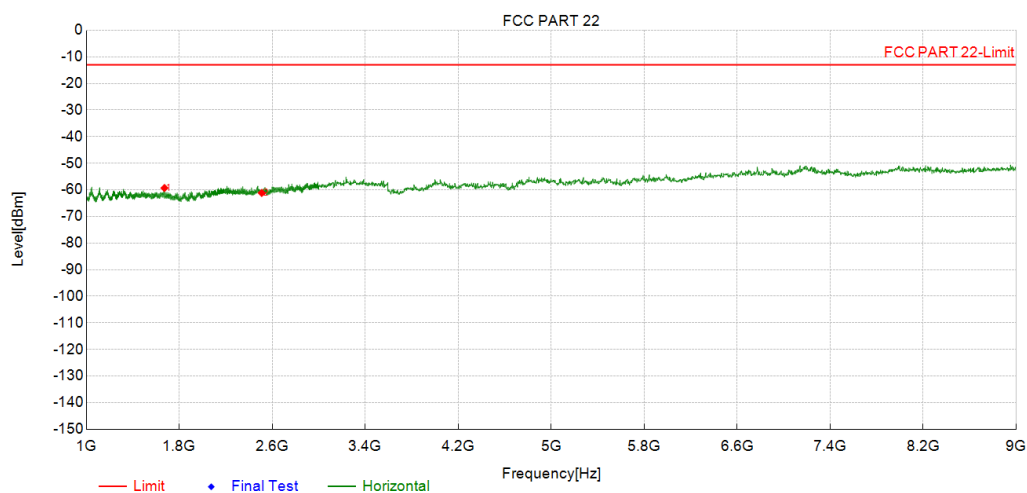
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260626B001

MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1672.9346	-49.72	-59.30	-9.58	-13.00	46.30	Horizon	PK	PASS
2	2509.5019	-55.17	-61.15	-5.98	-13.00	48.15	Horizon	PK	PASS



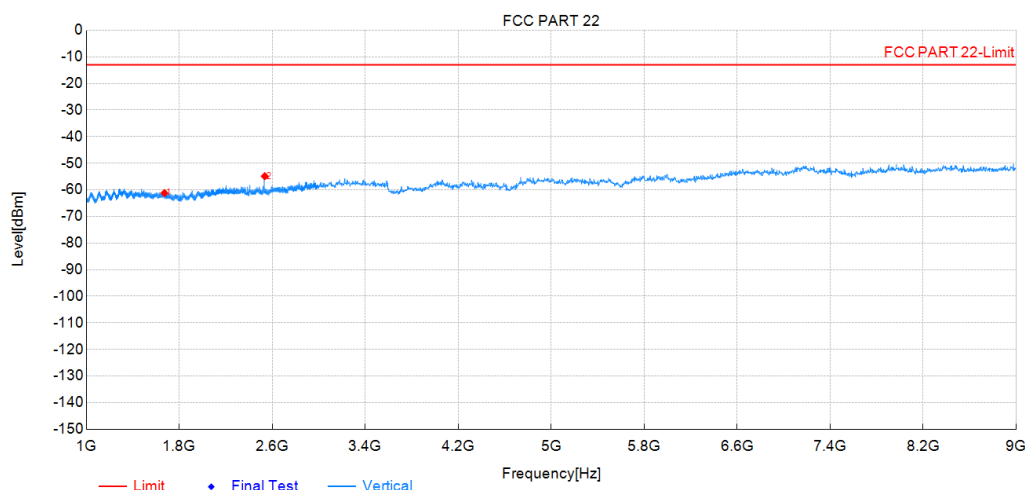
Test Report No.: RF260626B001

MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1672.9346	-51.62	-61.21	-9.59	-13.00	48.21	Vertical	PK	PASS
2	2535.5071	-49.09	-54.86	-5.77	-13.00	41.86	Vertical	PK	PASS

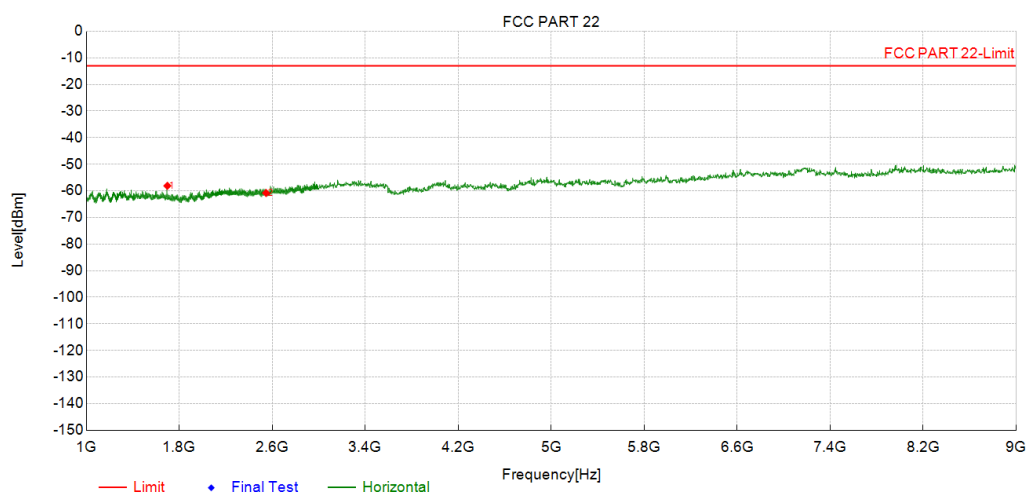


Test Report No.: RF260626B001

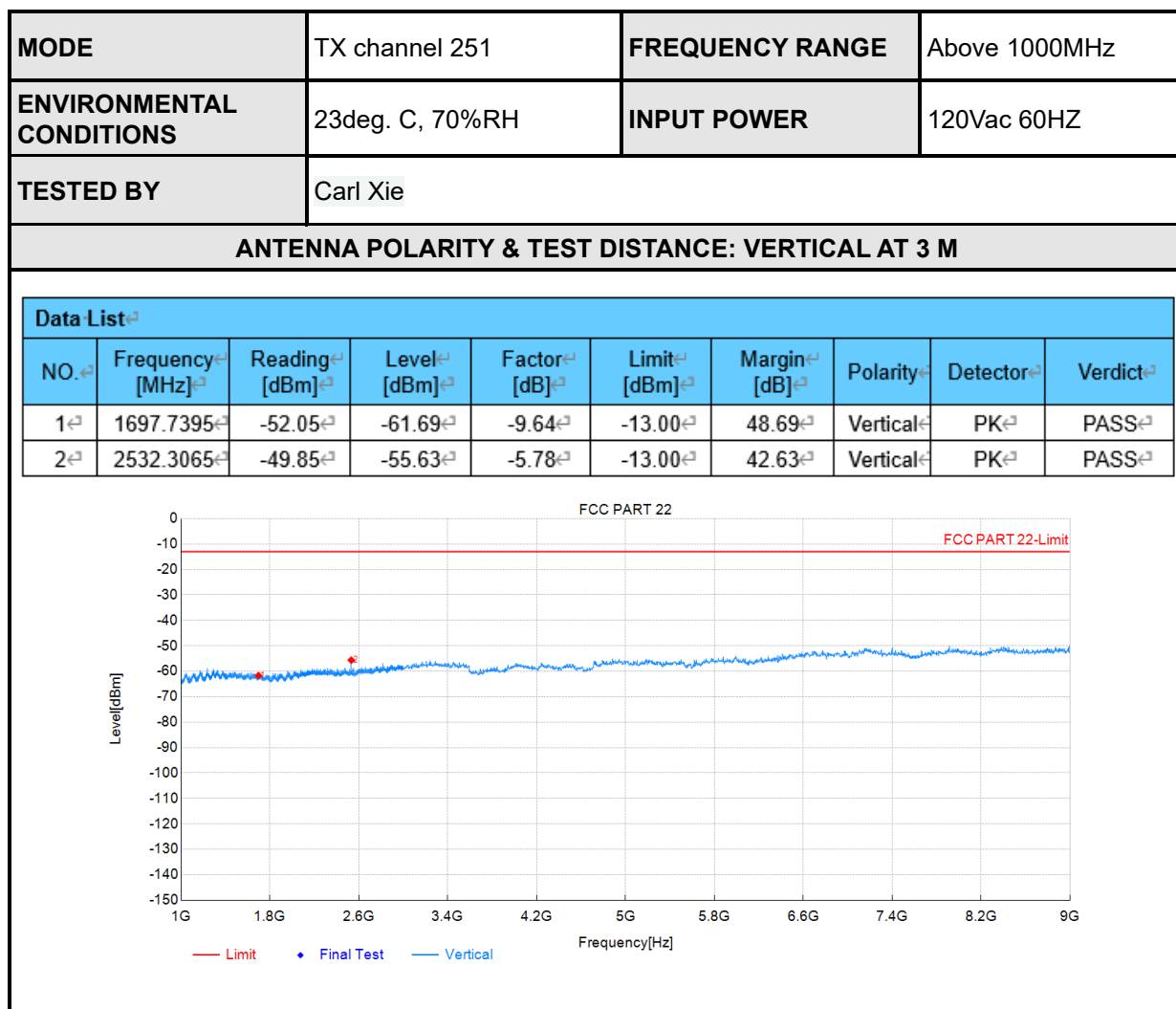
MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Data List

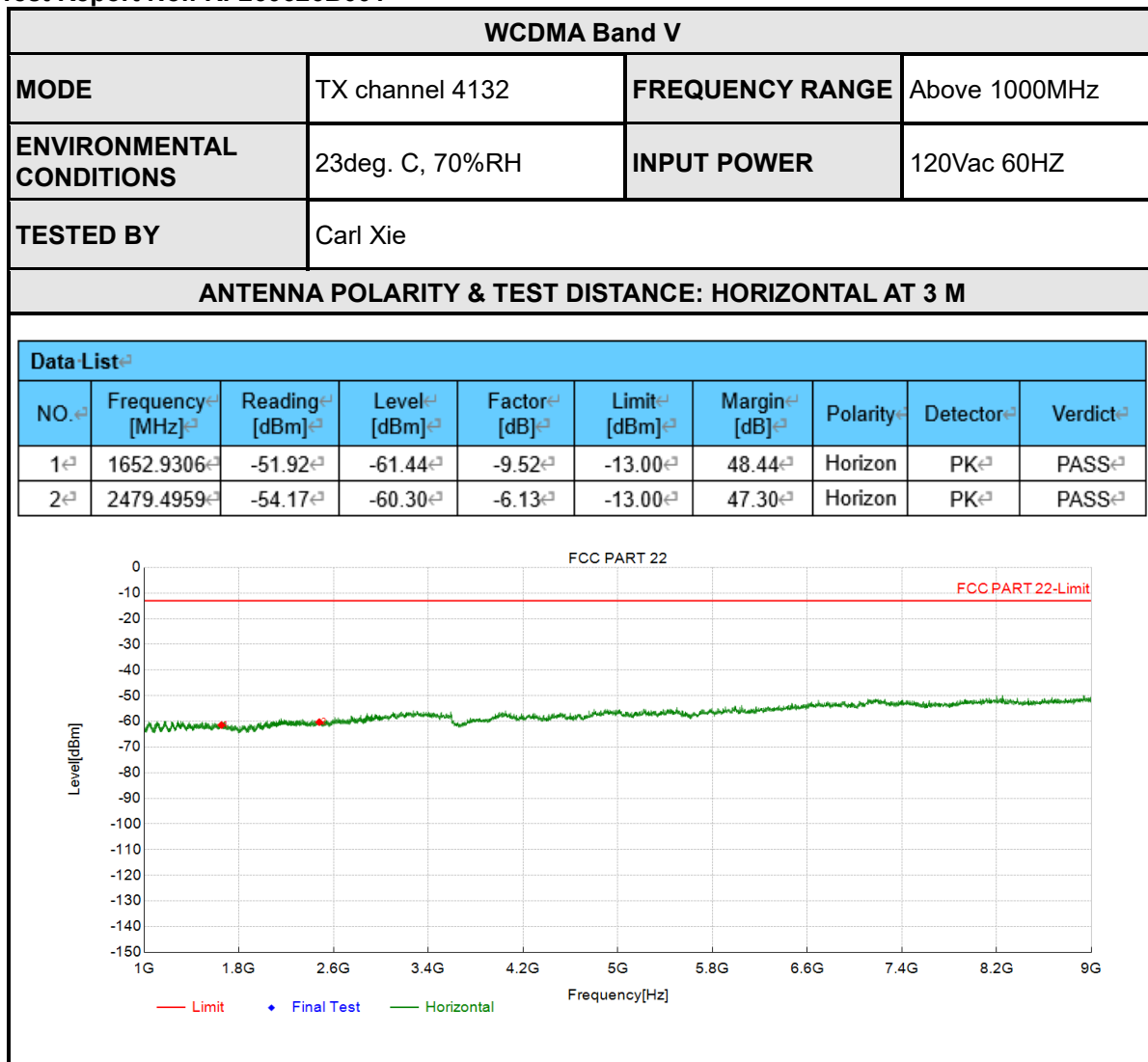
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1697.7395	-48.44	-58.10	-9.66	-13.00	45.10	Horizon	PK	PASS
2	2546.7093	-54.98	-60.79	-5.81	-13.00	47.79	Horizon	PK	PASS



Test Report No.: RF260626B001



Test Report No.: RF260626B001

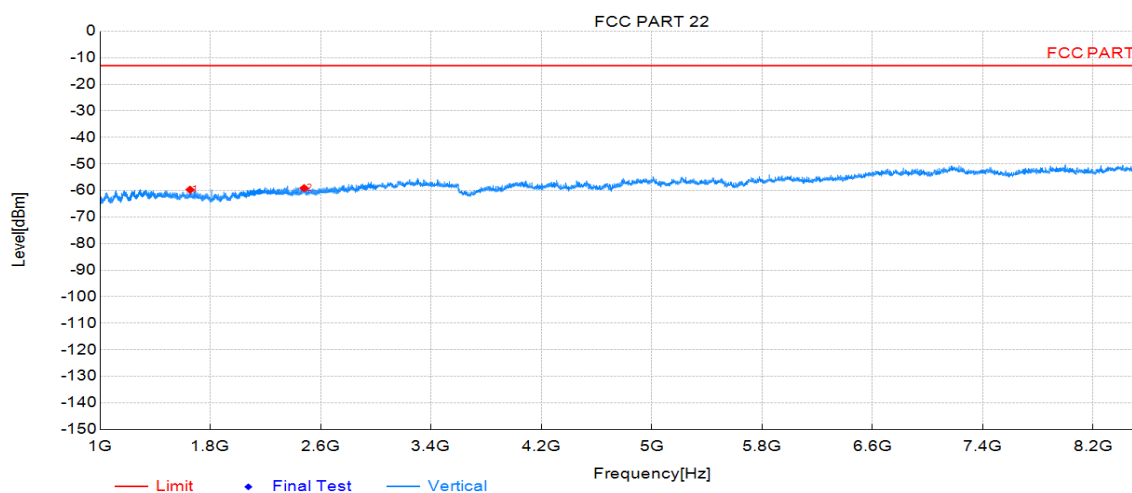


Test Report No.: RF260626B001

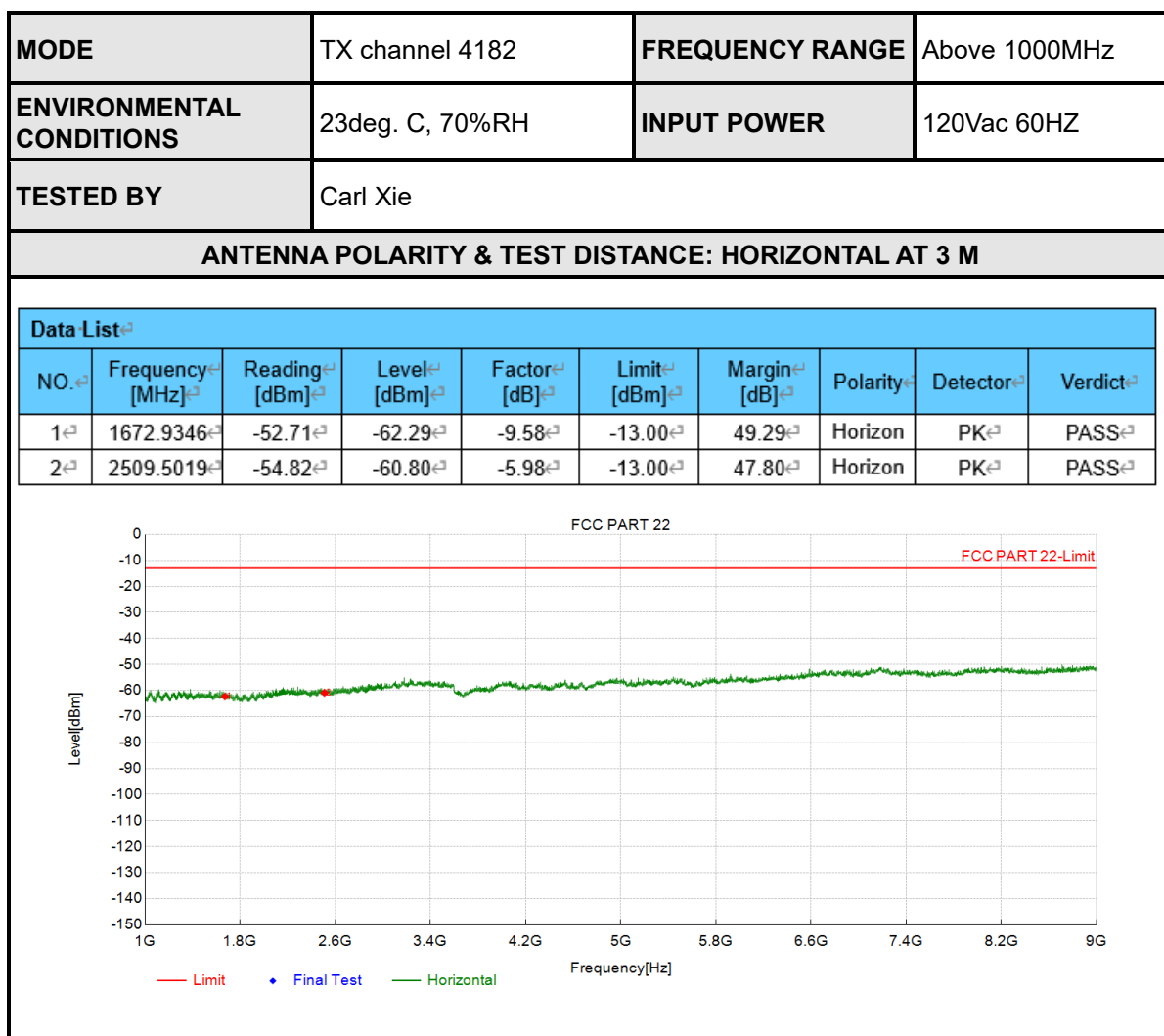
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1652.9306	-50.14	-59.70	-9.56	-13.00	46.70	Vertical	PK	PASS
2	2479.4959	-53.09	-59.10	-6.01	-13.00	46.10	Vertical	PK	PASS



Test Report No.: RF260626B001

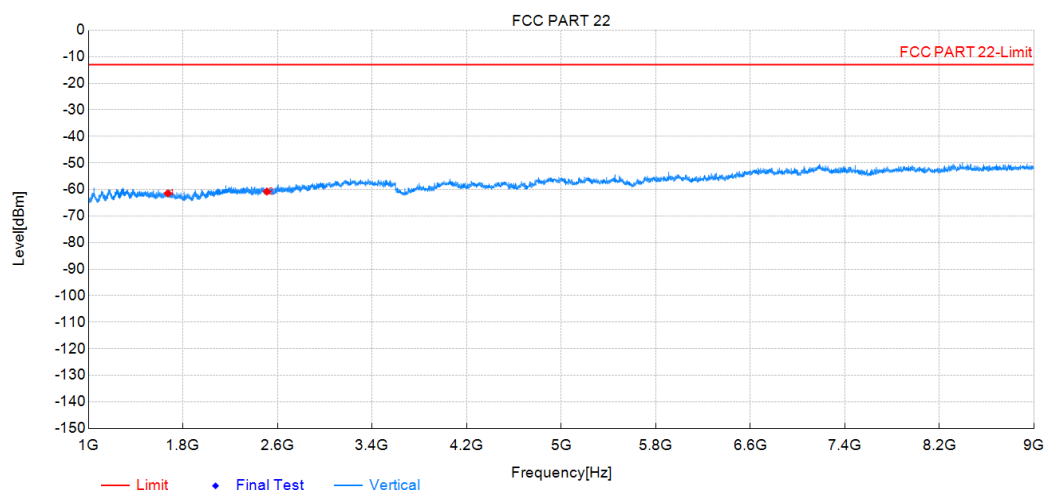


Test Report No.: RF260626B001

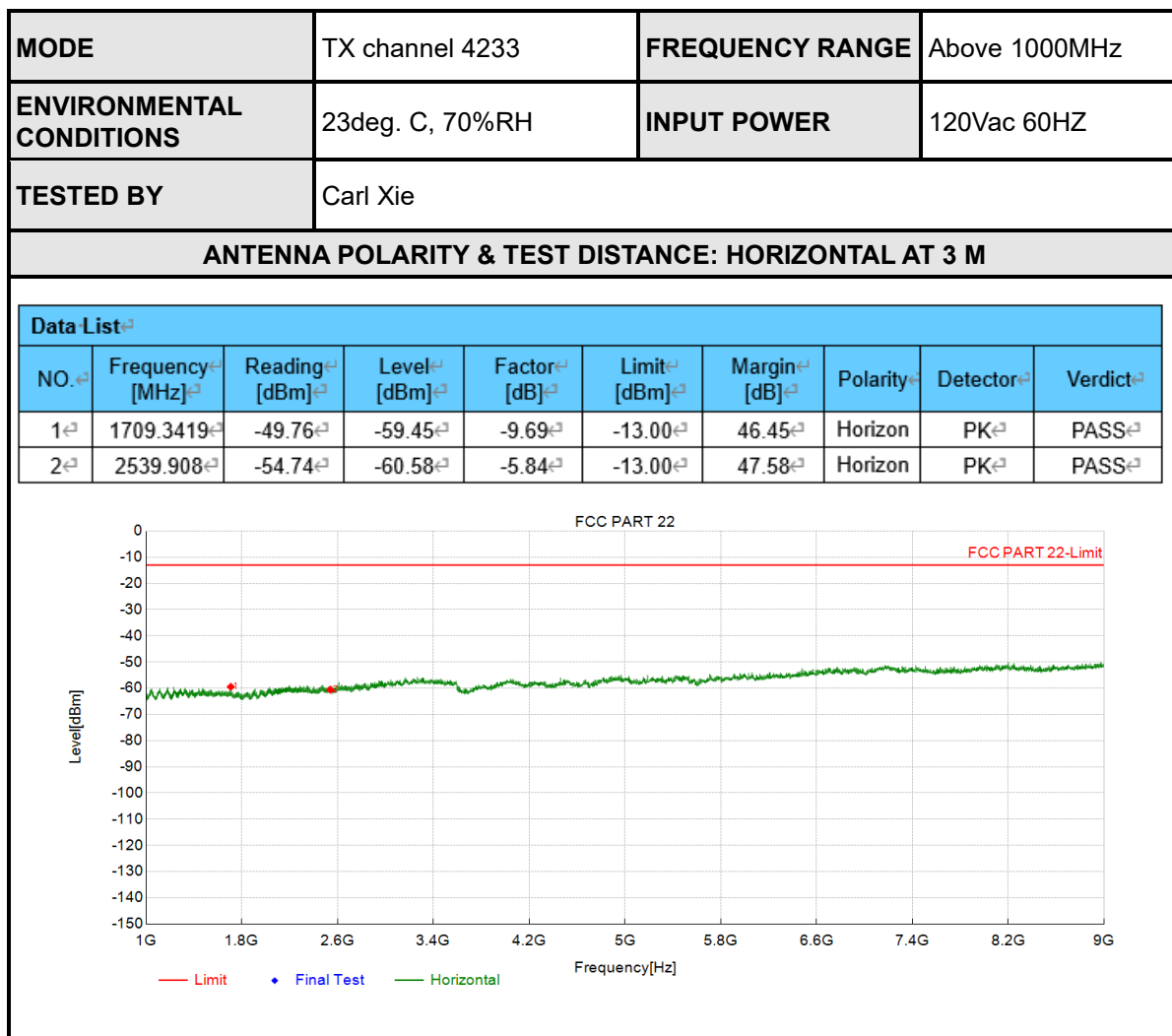
MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1672.9346	-51.88	-61.47	-9.59	-13.00	48.47	Vertical	PK	PASS
2	2509.5019	-54.90	-60.77	-5.87	-13.00	47.77	Vertical	PK	PASS



Test Report No.: RF260626B001





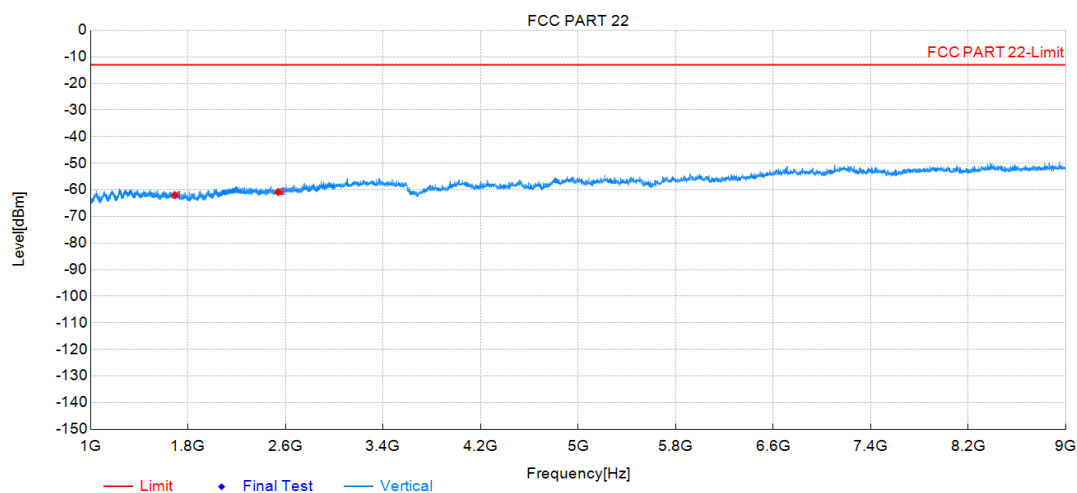
Test Report No.: RF260626B001

MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1693.3387	-52.35	-61.98	-9.63	-13.00	48.98	Vertical	PK	PASS
2	2539.908	-55.07	-60.82	-5.75	-13.00	47.82	Vertical	PK	PASS



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Test Report No.: RF260626B001

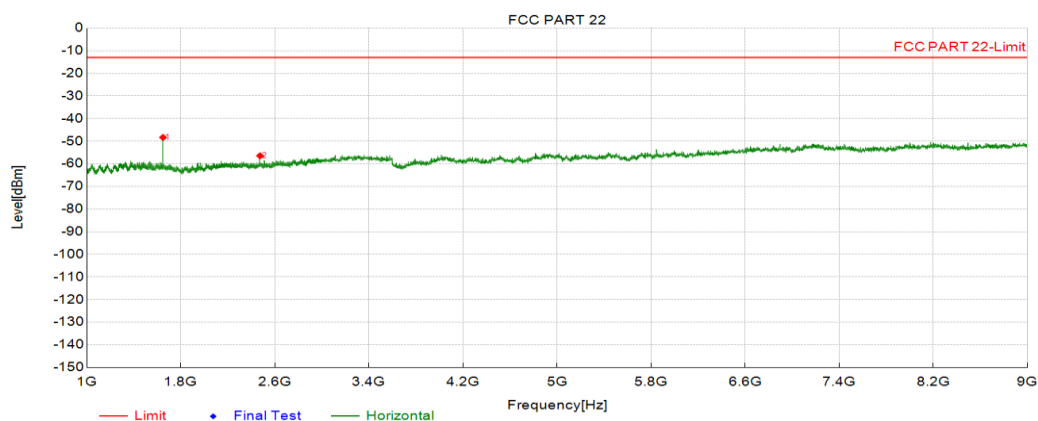
LTE Band 5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.9298	-38.83	-48.32	-9.49	-13.00	35.32	Horizon	PK	PASS
2	2473.8948	-50.28	-56.44	-6.16	-13.00	43.44	Horizon	PK	PASS



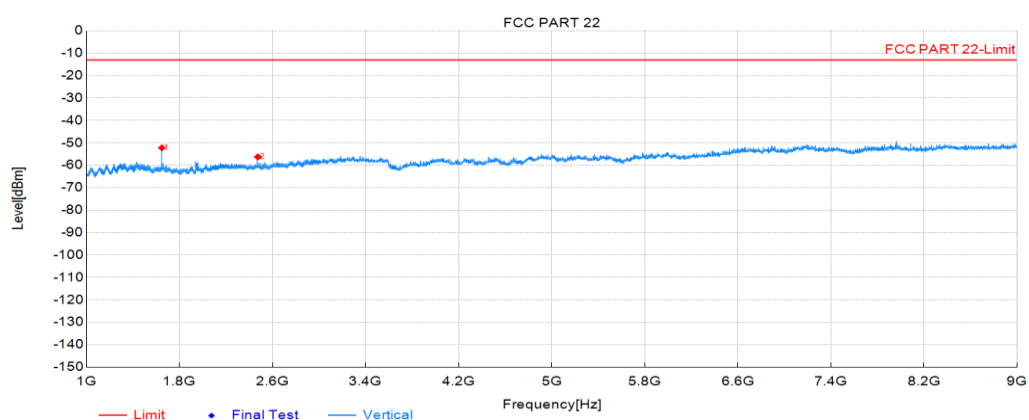
Test Report No.: RF260626B001

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

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1649.3299	-42.66	-52.20	-9.54	-13.00	39.20	Vertical	PK	PASS
2	2473.4947	-50.21	-56.24	-6.03	-13.00	43.24	Vertical	PK	PASS



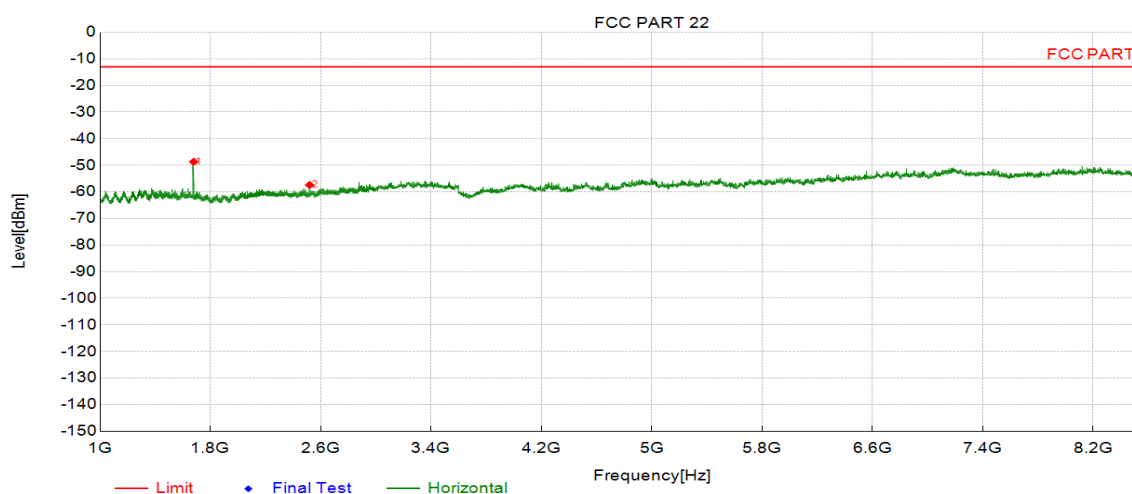
Test Report No.: RF260626B001

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1679.3359	-39.09	-48.69	-9.60	-13.00	35.69	Horizon	PK	PASS
2	2519.1038	-51.46	-57.40	-5.94	-13.00	44.40	Horizon	PK	PASS





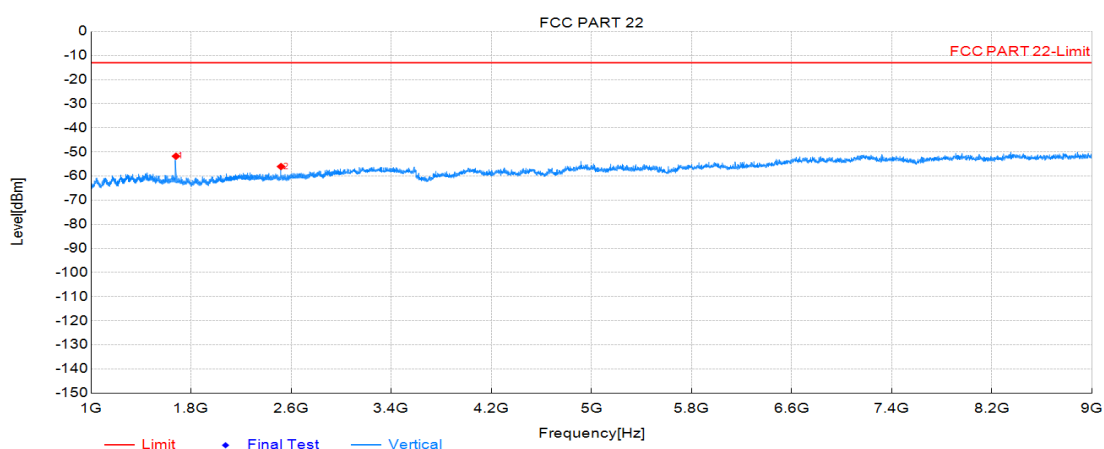
Test Report No.: RF260626B001

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

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1679.3359	-42.15	-51.75	-9.60	-13.00	38.75	Vertical	PK	PASS
2	2518.7037	-50.20	-56.04	-5.84	-13.00	43.04	Vertical	PK	PASS



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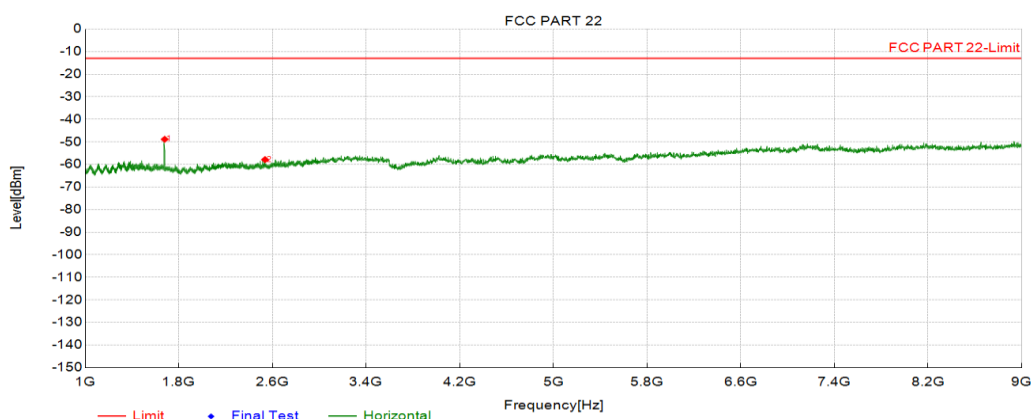
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260626B001

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1679.3359	-39.25	-48.85	-9.60	-13.00	35.85	Horizon	PK	PASS
2	2536.7073	-52.00	-57.85	-5.85	-13.00	44.85	Horizon	PK	PASS



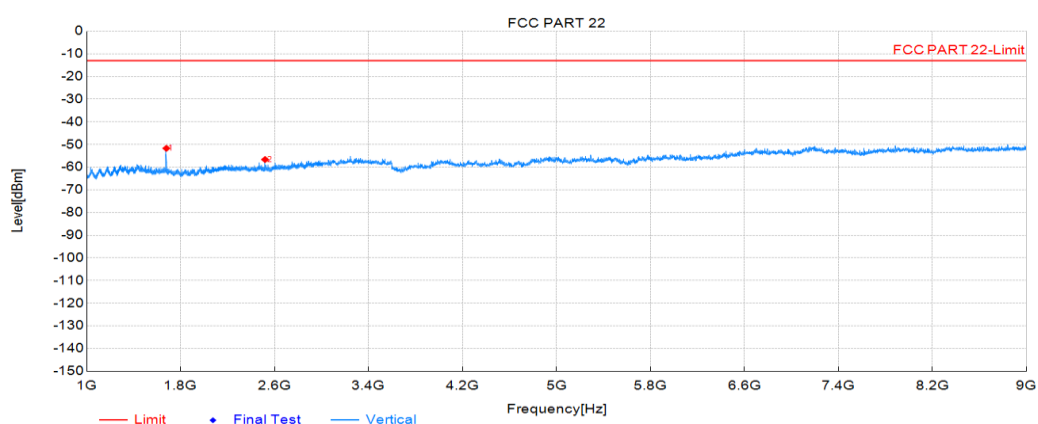
Test Report No.: RF260626B001

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

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1678.9358	-42.07	-51.67	-9.60	-13.00	38.67	Vertical	PK	PASS
2	2518.7037	-50.77	-56.61	-5.84	-13.00	43.61	Vertical	PK	PASS

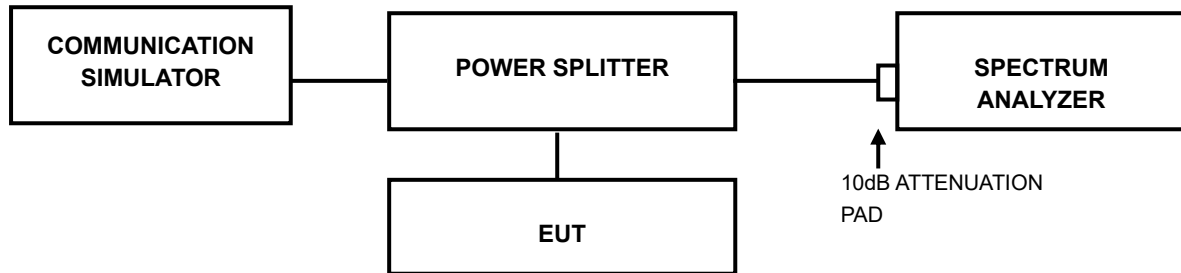


3.7 PEAK TO AVERAGE RATIO

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.: RF260626B001

3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.



Test Report No.: RF260626B001

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: RF260626B001

5 INFORMATION ON THE TESTING LABORATORIES

We, BOOMWAVE TEST (SHENZHEN) CO., LTD., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com



Test Report No.: RF260626B001

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.

Test Report No.: RF260626B001

7 APPENDIX:

GSM850

PEAK-TO-AVERAGE RATIO(CCDF)

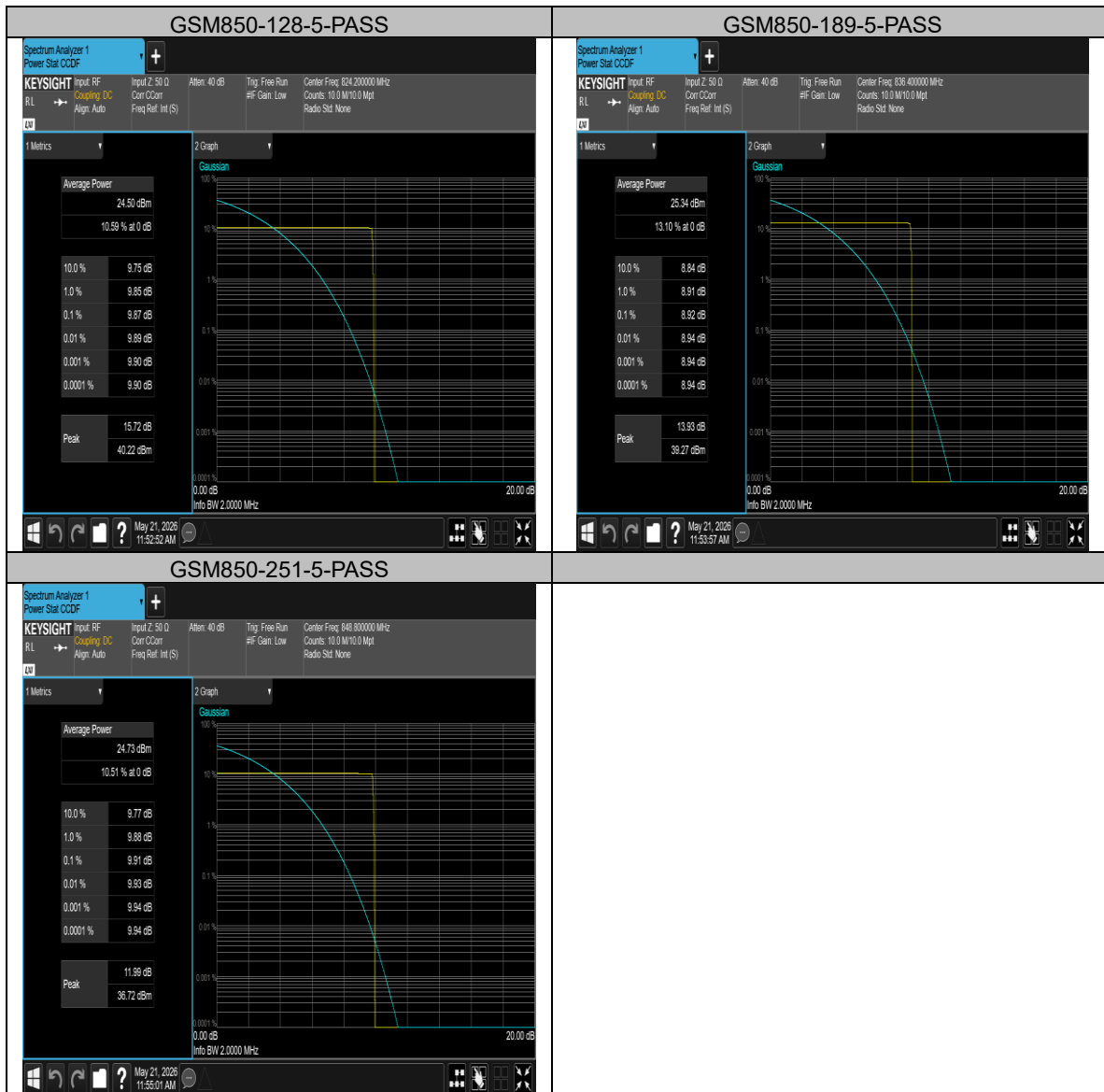
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.87	13	PASS
GSM850	189	8.92	13	PASS
GSM850	251	9.91	13	PASS



Test Report No.: RF260626B001

Test Graphs



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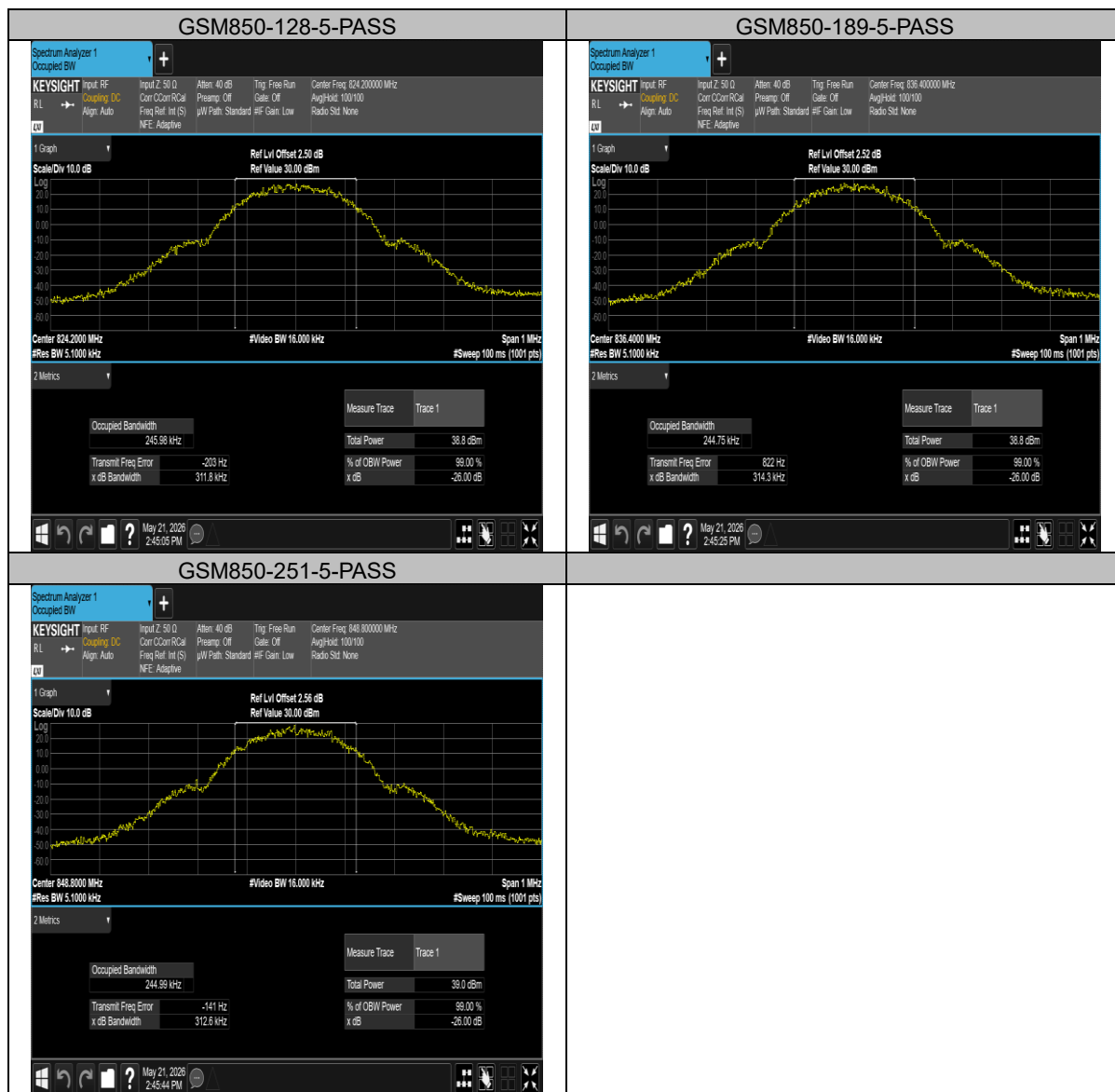
Test Report No.: RF260626B001

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24598	0.3118	---	PASS
GSM850	189	0.24475	0.3143	---	PASS
GSM850	251	0.24499	0.3126	---	PASS

Test Graphs



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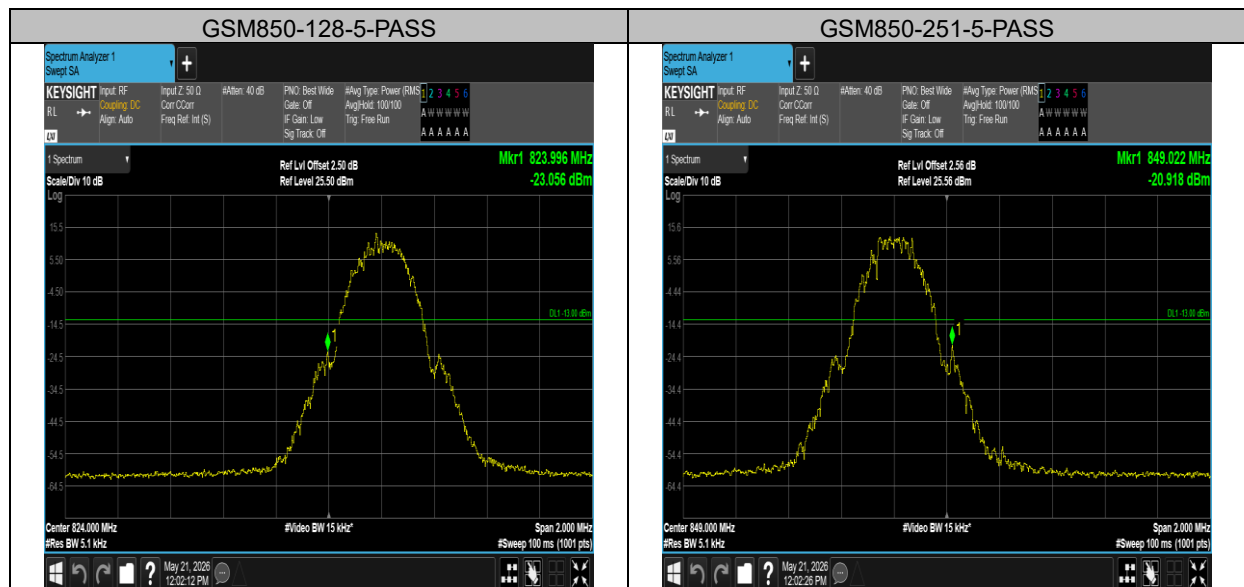
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Email:shimin.wang@boomwavelab.com

BAND EDGE

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-23.06	-13	PASS
GSM850	251	849.02	-20.92	-13	PASS

Test Graphs





Test Report No.: RF260626B001

CONDUCTED SPURIOUS EMISSION

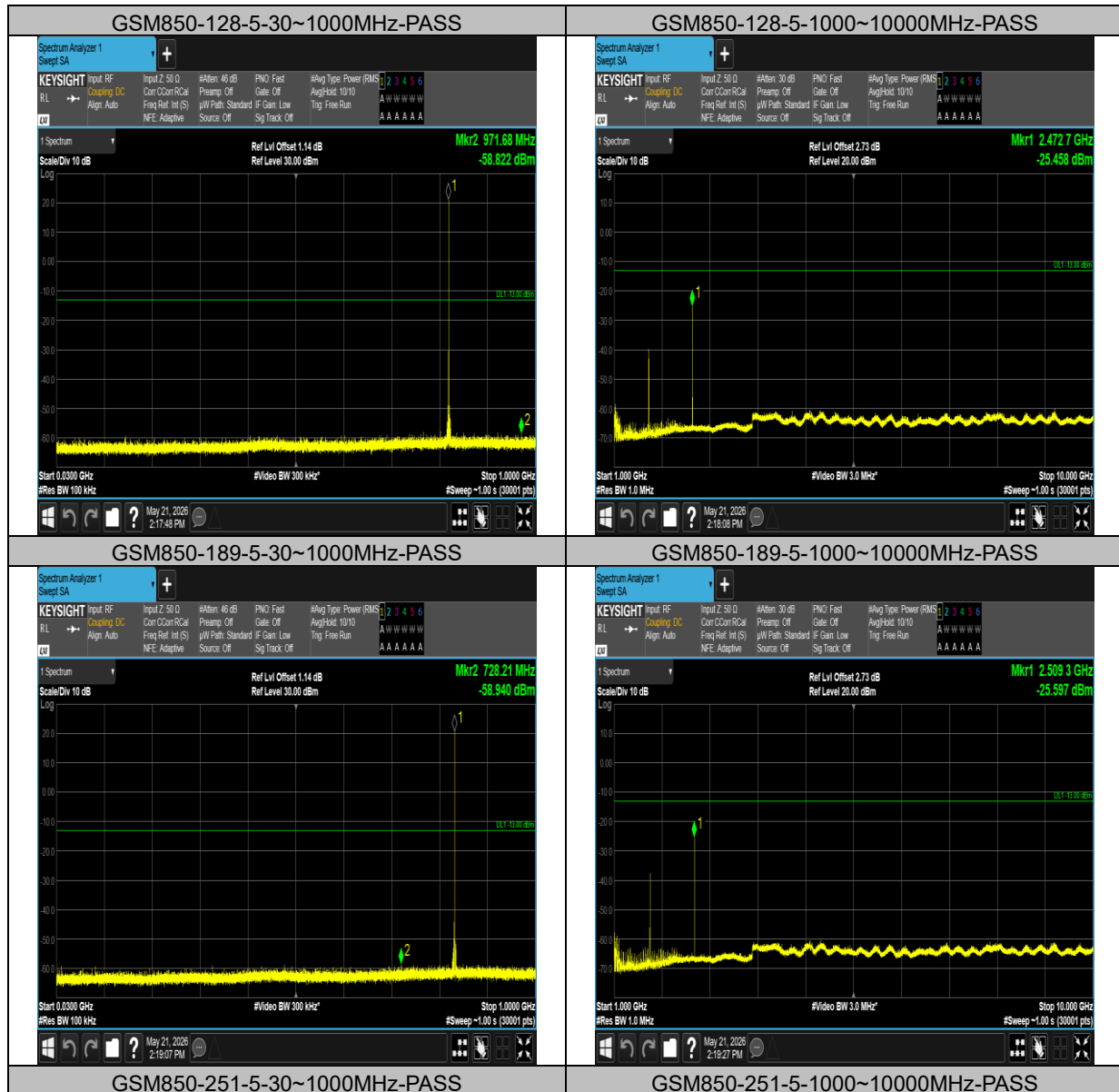
Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	971.68	-58.82	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-25.46	-13	PASS
GSM850	189	30~1000MHz	728.21	-58.94	-13	PASS
GSM850	189	1000~10000MHz	2509.3	-25.6	-13	PASS
GSM850	251	30~1000MHz	314.73	-58.22	-13	PASS
GSM850	251	1000~10000MHz	2546.5	-26	-13	PASS



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Test Graphs



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Test Report No.: RF260626B001
FREQUENCY STABILITY

Test Result

Voltage									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM850	128	VN	NT	810	0.9828	824.078275	824.323345	824-849	PASS
GSM850	128	VL	NT	-910	-1.1041	824.077035	824.321145	824-849	PASS
GSM850	128	VH	NT	-10	-0.0121	824.077950	824.322030	824-849	PASS
GSM850	251	VN	NT	-280	-0.3299	848.678415	848.921025	824-849	PASS
GSM850	251	VL	NT	-260	-0.3063	848.678100	848.921380	824-849	PASS
GSM850	251	VH	NT	-290	-0.3417	848.677505	848.921915	824-849	PASS

Temperature									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM850	128	NV	-30	240.00	0.2912	824.078265	824.322215	824-849	PASS
GSM850	128	NV	-20	330.00	0.4004	824.07797	824.32269	824-849	PASS
GSM850	128	NV	-10	-870.00	-1.0556	824.07735	824.32091	824-849	PASS
GSM850	128	NV	0	-90.00	-0.1092	824.077955	824.321865	824-849	PASS
GSM850	128	NV	10	440.00	0.5339	824.07857	824.32231	824-849	PASS
GSM850	128	NV	20	1200.00	1.4560	824.079535	824.322865	824-849	PASS
GSM850	128	NV	30	260.00	0.3155	824.07813	824.32239	824-849	PASS
GSM850	128	NV	40	-20.00	-0.0243	824.078165	824.321795	824-849	PASS
GSM850	128	NV	50	1170.00	1.4196	824.07795	824.32439	824-849	PASS
GSM850	251	NV	-30	540.00	0.6552	848.679535	848.921545	824-849	PASS
GSM850	251	NV	-20	-910.00	-1.1041	848.677085	848.921095	824-849	PASS
GSM850	251	NV	-10	-290.00	-0.3519	848.678205	848.921215	824-849	PASS
GSM850	251	NV	0	-340.00	-0.4125	848.678305	848.921015	824-849	PASS
GSM850	251	NV	10	970.00	1.1769	848.679135	848.922805	824-849	PASS

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Test Report No.: RF260626B001

GSM850	251	NV	20	-550.00	-0.6673	848.6779 45	848.9209 55	824-849	PASS
GSM850	251	NV	30	70.00	0.0849	848.6774 8	848.9226 6	824-849	PASS
GSM850	251	NV	40	-1280.00	-1.5530	848.6762 6	848.9211 8	824-849	PASS
GSM850	251	NV	50	-100.00	-0.1213	848.6783 55	848.9214 45	824-849	PASS



Test Report No.: RF260626B001

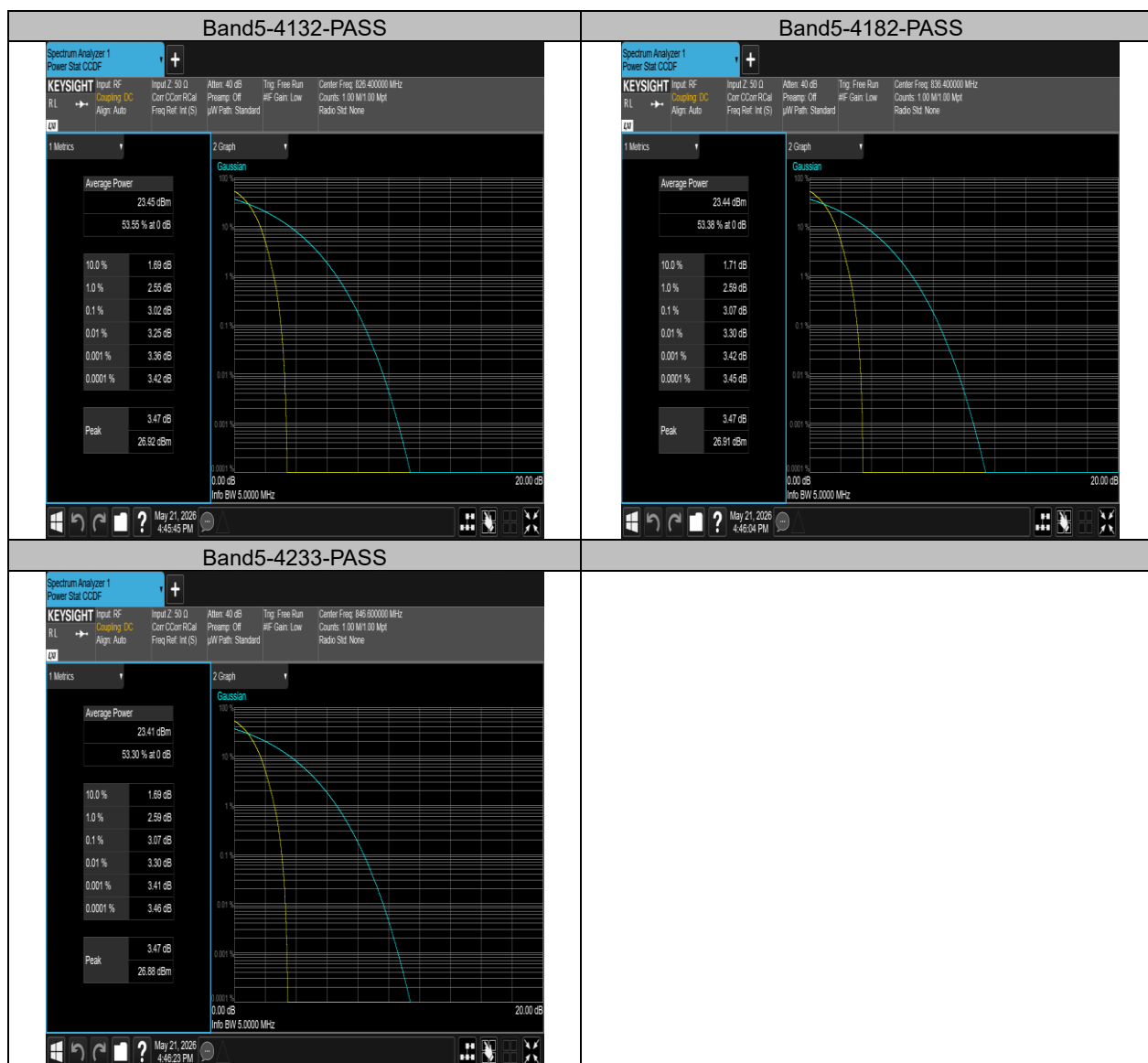
WCDMA B5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.02	13	PASS
Band5	4182	3.07	13	PASS
Band5	4233	3.07	13	PASS

Test Graphs



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Test Report No.: RF260626B001

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.1305	4.706	---	PASS
Band5	4182	4.1418	4.705	---	PASS
Band5	4233	4.1319	4.699	---	PASS

Test Graphs



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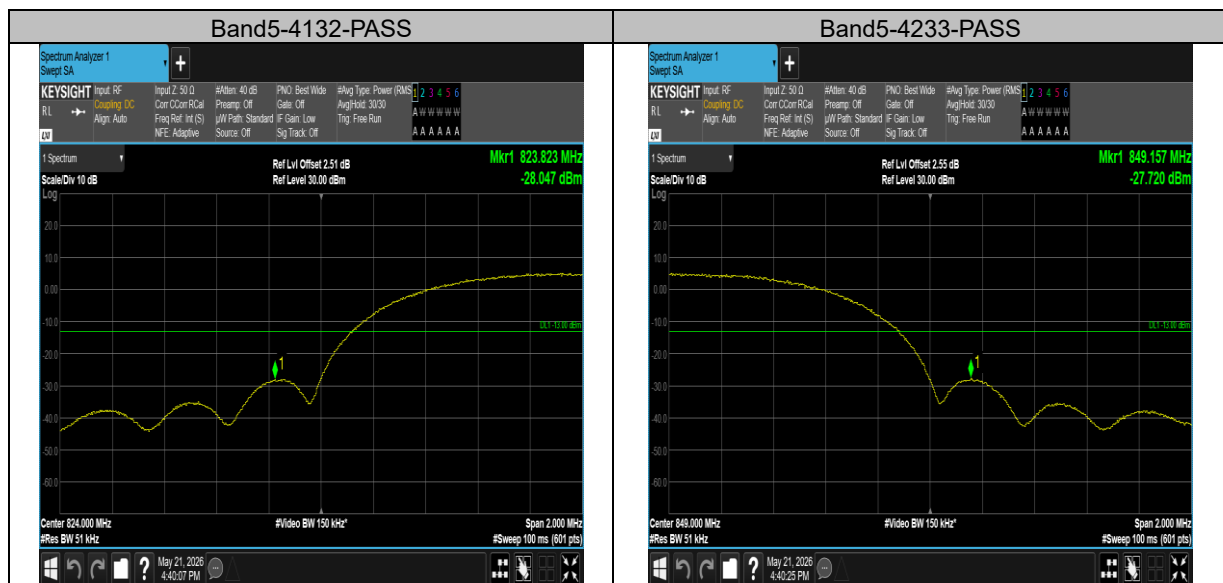
Test Report No.: RF260626B001

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.82	-28.05	-13	PASS
Band5	4233	849.16	-27.72	-13	PASS

Test Graphs



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Test Report No.: RF260626B001
CONDUCTED SPURIOUS EMISSION

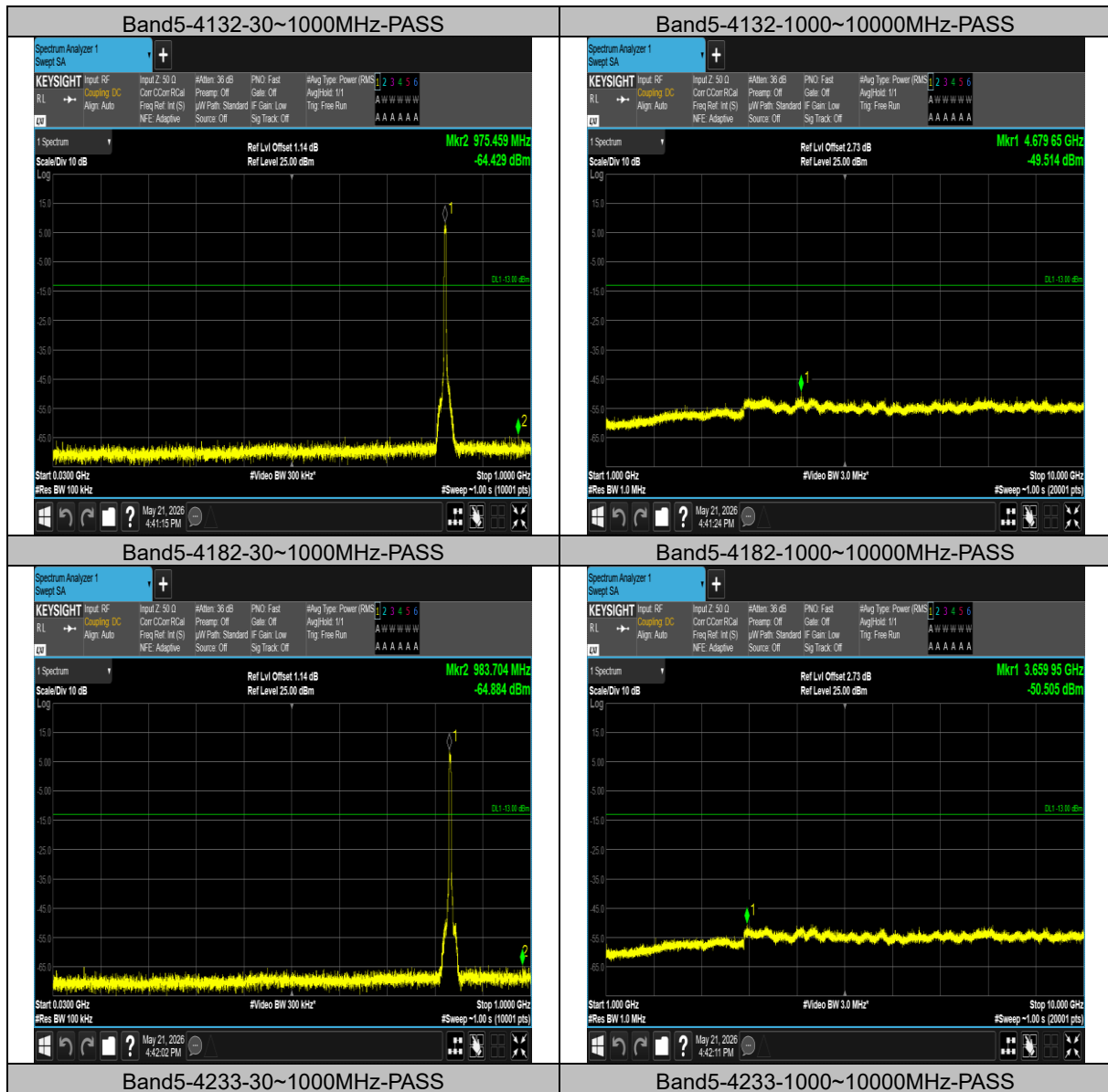
Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	975.46	-64.43	-13	PASS
Band5	4132	1000~10000MHz	4679.65	-49.51	-13	PASS
Band5	4182	30~1000MHz	983.7	-64.88	-13	PASS
Band5	4182	1000~10000MHz	3659.95	-50.51	-13	PASS
Band5	4233	30~1000MHz	993.5	-64.28	-13	PASS
Band5	4233	1000~10000MHz	4685.05	-50.97	-13	PASS



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Test Graphs



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Test Report No.: RF260626B001
FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VN	NT	1.34	0.001621	±2.5	PASS
Band5	4132	VL	NT	1.08	0.001307	±2.5	PASS
Band5	4132	VH	NT	1.01	0.001222	±2.5	PASS
Band5	4233	VN	NT	-1.53	-0.001807	±2.5	PASS
Band5	4233	VL	NT	-1.70	-0.002008	±2.5	PASS
Band5	4233	VH	NT	-1.77	-0.002091	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	1.21	0.001464	±2.5	PASS
Band5	4132	NV	-20	0.97	0.001174	±2.5	PASS
Band5	4132	NV	-10	1.14	0.001379	±2.5	PASS
Band5	4132	NV	0	0.96	0.001162	±2.5	PASS
Band5	4132	NV	10	1.08	0.001307	±2.5	PASS
Band5	4132	NV	20	1.14	0.001379	±2.5	PASS
Band5	4132	NV	30	1.11	0.001343	±2.5	PASS
Band5	4132	NV	40	1.11	0.001343	±2.5	PASS
Band5	4132	NV	50	1.06	0.001283	±2.5	PASS
Band5	4233	NV	-30	-1.66	-0.001961	±2.5	PASS
Band5	4233	NV	-20	-1.61	-0.001902	±2.5	PASS
Band5	4233	NV	-10	-1.64	-0.001937	±2.5	PASS
Band5	4233	NV	0	-1.69	-0.001996	±2.5	PASS
Band5	4233	NV	10	-1.77	-0.002091	±2.5	PASS
Band5	4233	NV	20	-1.79	-0.002114	±2.5	PASS
Band5	4233	NV	30	-1.62	-0.001914	±2.5	PASS
Band5	4233	NV	40	-1.59	-0.001878	±2.5	PASS
Band5	4233	NV	50	-1.78	-0.002103	±2.5	PASS

LTE B5

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	4.31	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.02	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.71	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.35	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.90	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.72	13	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	6.19	13	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	6.59	13	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	5.52	13	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	6.02	13	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	5.71	13	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	6.34	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.26	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.98	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.60	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.31	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.94	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.68	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.23	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	4.99	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.61	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.40	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.06	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.83	13	PASS
Band5	3MHz	64QAM	20415	1RB#0	6.17	13	PASS
Band5	3MHz	64QAM	20415	15RB#0	6.52	13	PASS
Band5	3MHz	64QAM	20525	1RB#0	5.07	13	PASS
Band5	3MHz	64QAM	20525	15RB#0	6.06	13	PASS
Band5	3MHz	64QAM	20635	1RB#0	5.93	13	PASS
Band5	3MHz	64QAM	20635	15RB#0	6.40	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.29	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.93	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.50	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.34	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.99	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.78	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	3.45	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.25	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	2.99	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.02	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.51	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.35	13	PASS
Band5	5MHz	64QAM	20425	1RB#0	6.09	13	PASS

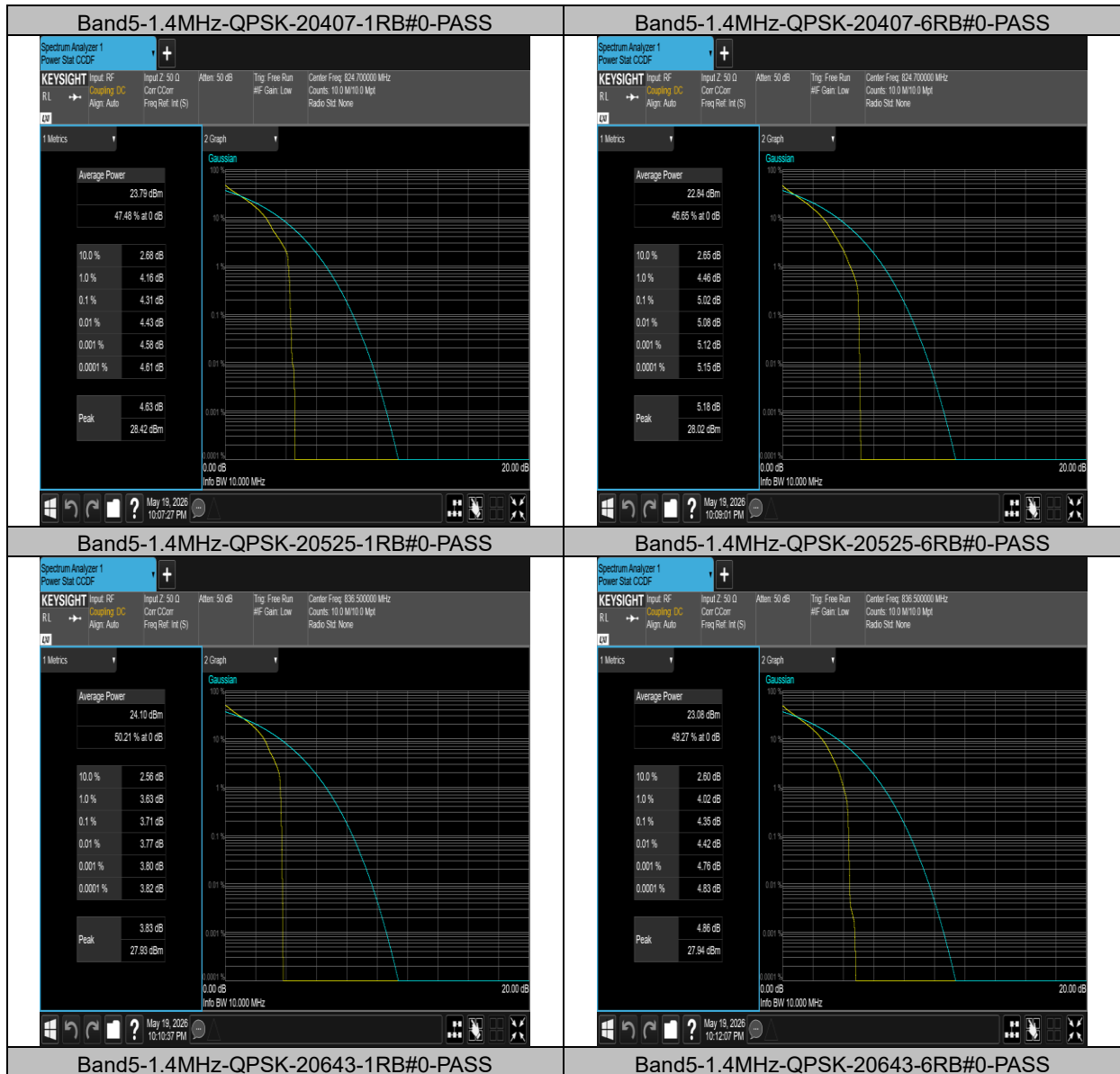
Test Report No.: RF260626B001

Band5	5MHz	64QAM	20425	25RB#0	6.42	13	PASS
Band5	5MHz	64QAM	20525	1RB#0	4.93	13	PASS
Band5	5MHz	64QAM	20525	25RB#0	6.08	13	PASS
Band5	5MHz	64QAM	20625	1RB#0	6.24	13	PASS
Band5	5MHz	64QAM	20625	25RB#0	6.49	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	4.49	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.23	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	3.92	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.97	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.46	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.31	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	3.63	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.15	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	2.89	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.26	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.55	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.46	13	PASS
Band5	10MHz	64QAM	20450	1RB#0	6.18	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	64QAM	20525	1RB#0	5.00	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.30	13	PASS
Band5	10MHz	64QAM	20600	1RB#0	6.10	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.70	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.51	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.08	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	3.75	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.13	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.45	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.47	13	PASS



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Test Graphs

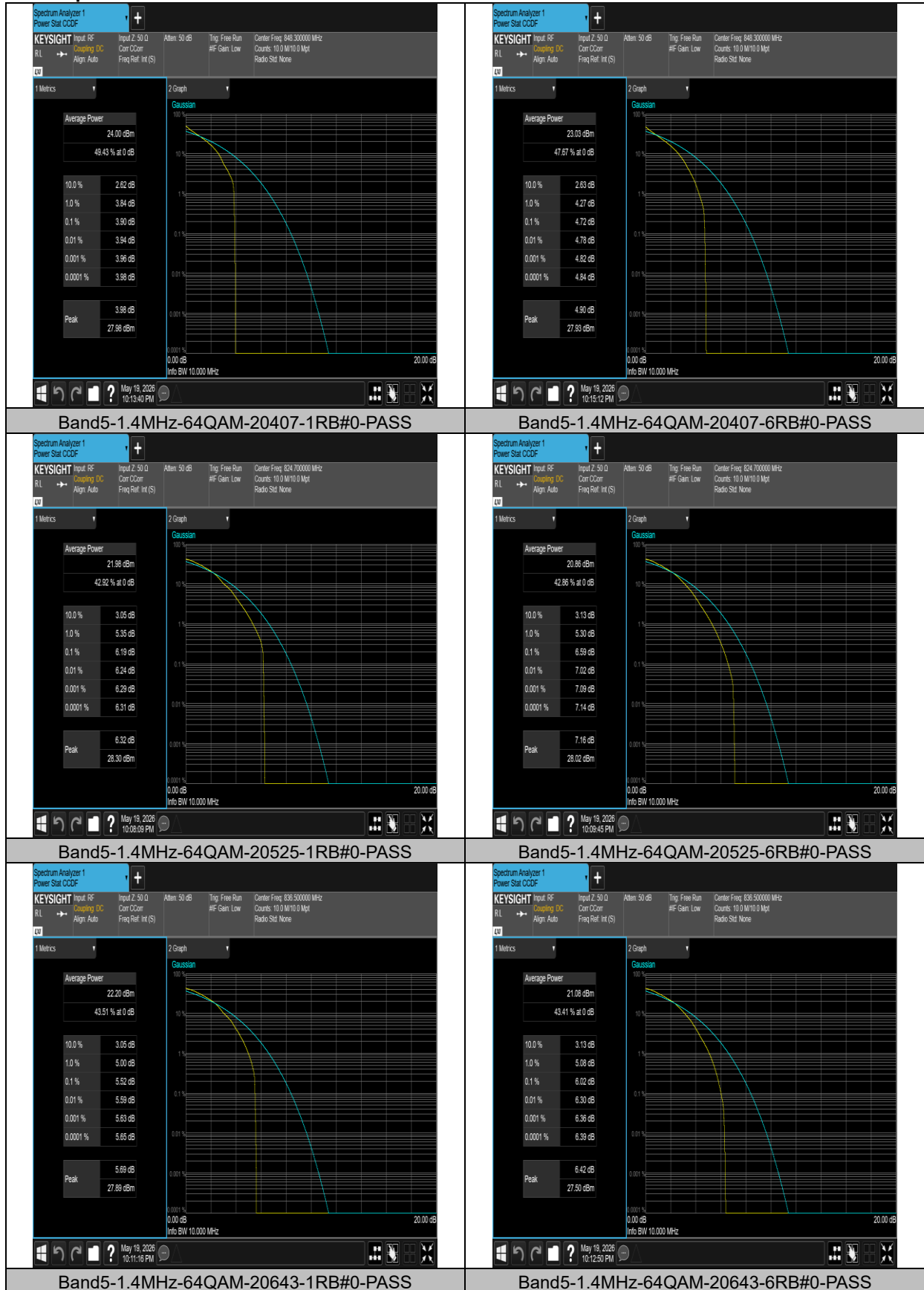


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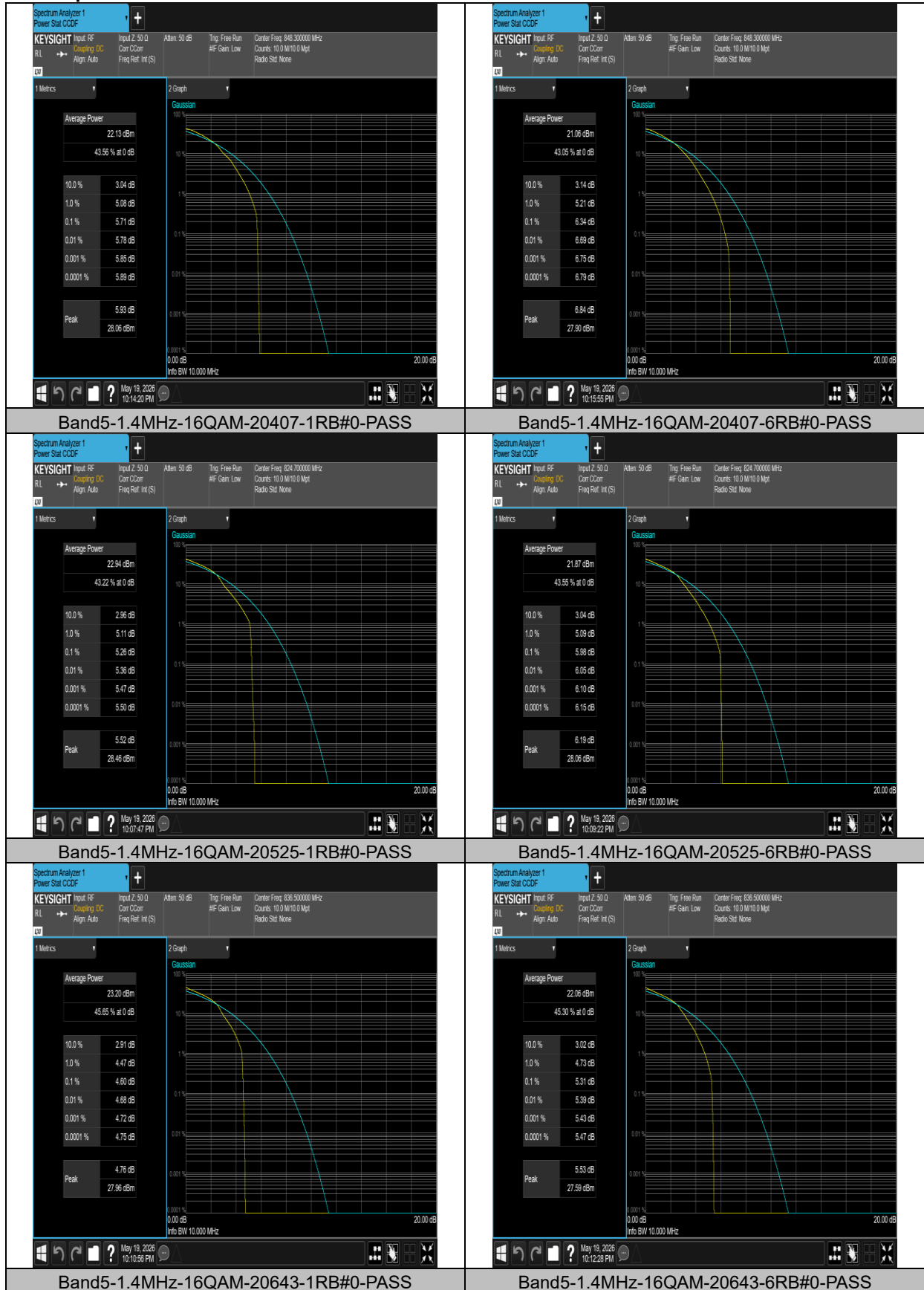


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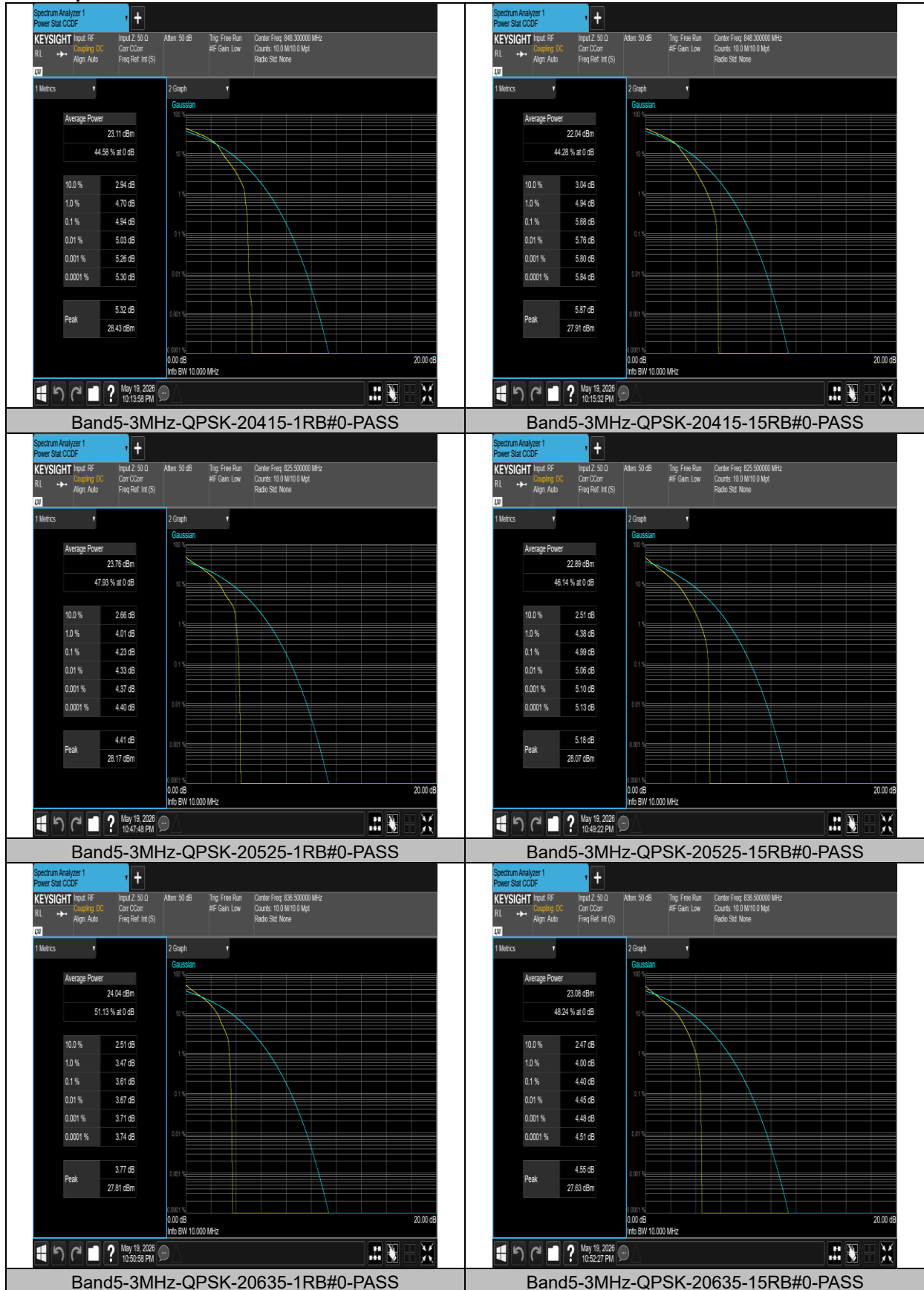


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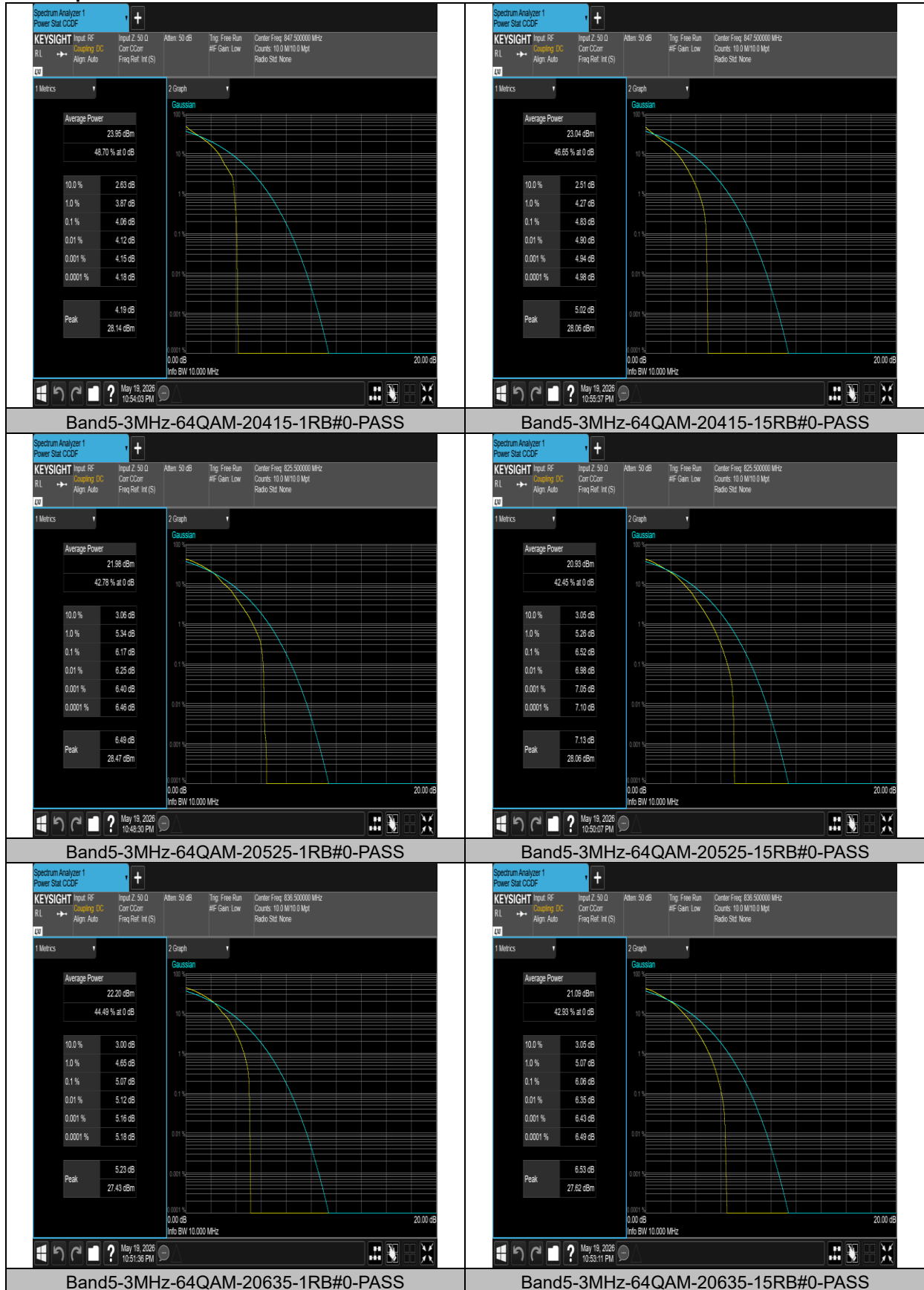


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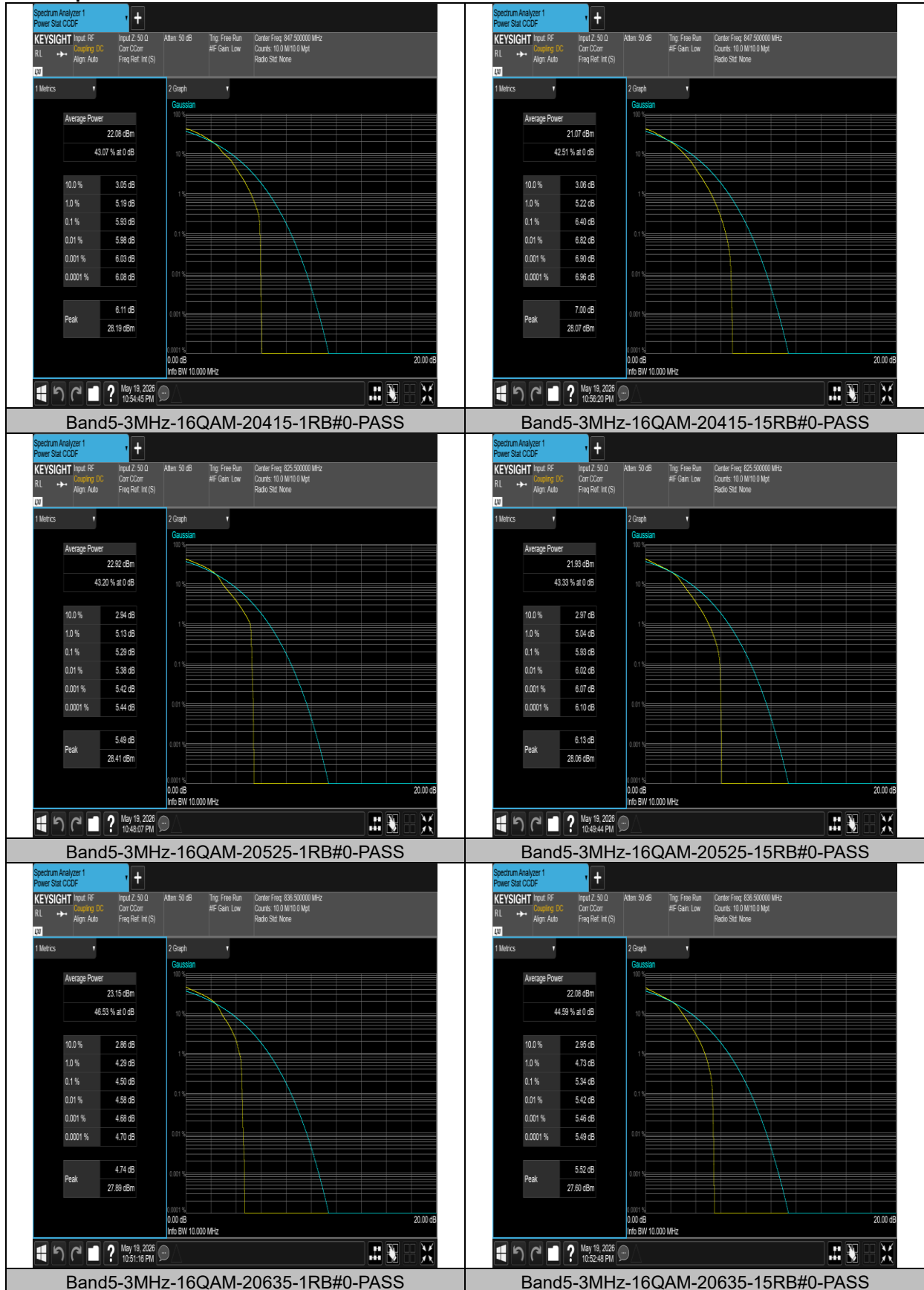


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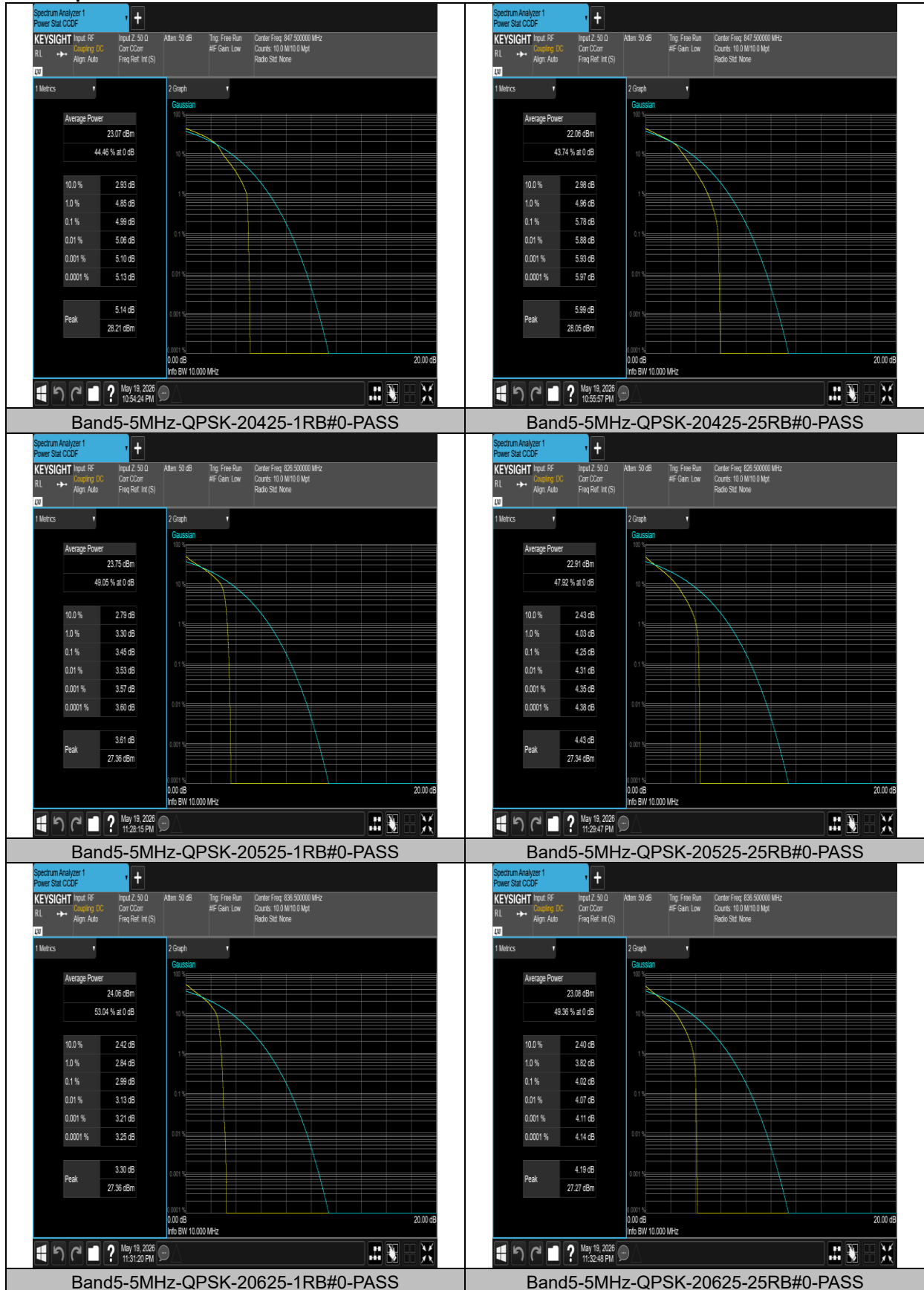


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