

FCC TEST REPORT

(PART 22)

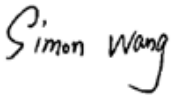
Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	2410FPCC5G
FCC ID:	2AFZZPCC5G
Date of tests:	May. 11, 2024 ~ Jul. 11, 2024 Oct. 16, 2024 ~ Nov.15, 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: Nov.15, 2024	Date: Nov.15, 2024

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24050016RF05	Original release	Jul. 11, 2024
W7L-P24100005RF05	Based on the original product add 2 nd materials, 5 th and 6 th screens. This report only verify conducted power and RSE worst case, the verify results of power are similar or lower, So this report only replaces the RSE worse case(GSM 850(Ant0) (UP)_CH189).	Nov.15, 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.

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

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



1.2 TEST SITE AND INSTRUMENTS

#1:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

#2:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,24	Sep.01,25
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.03, 24	Sep.02, 25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25

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3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 10,24	Aug. 09,25

- 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	Mobile Phone	
BRAND NAME	POCO	
MODEL NAME	2410FPCC5G	
NOMINAL VOLTAGE	5/3.6~11Vdc(adapter or host equipment) 3.84Vdc (Li-ion, battery)	
MODULATION TYPE	GSM/EDGE	GMSK, 8PSK
	WCDMA	BPSK, QPSK
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	GSM/EDGE	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	GSM	424.62mW
	EDGE	125.89mW
	WCDMA	65.16mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	66.99mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	66.99mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	66.83mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	67.45mW
EMISSION DESIGNATOR GOGN	GSM	245KGXW
	EDGE	252KG7W
	WCDMA	4M16F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
		16QAM: 1M10W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M69G7D
		16QAM: 2M69W7D



	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M50G7D
		16QAM: 4M50W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 9M00G7D
		16QAM: 9M00W7D
ANTENNA TYPE	ANT 0(UP): PIFA Antenna with -5.5dBi gain for GSM850/WCDMA V/LTE B5 ANT 1(DOWN): PIFA Antenna with -4dBi gain for GSM850/WCDMA V/LTE B5	
HW VERSION	135100C3N	
SW VERSION	Xiaomi HyperOS 1.0	
IMEI	864624070035805	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable5: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable6: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable7: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable8: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE	0-40 °C	
EXTREME VOLTAGE	3.6V - 4.4V	

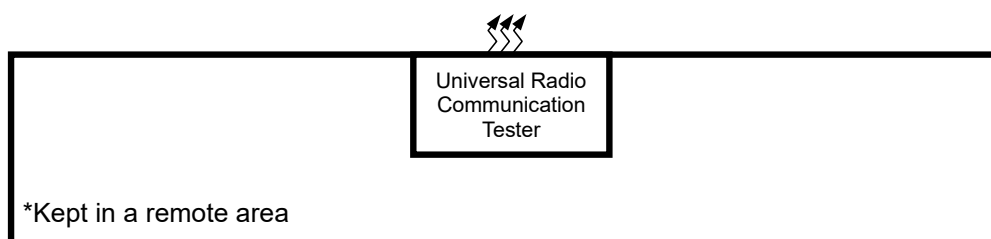
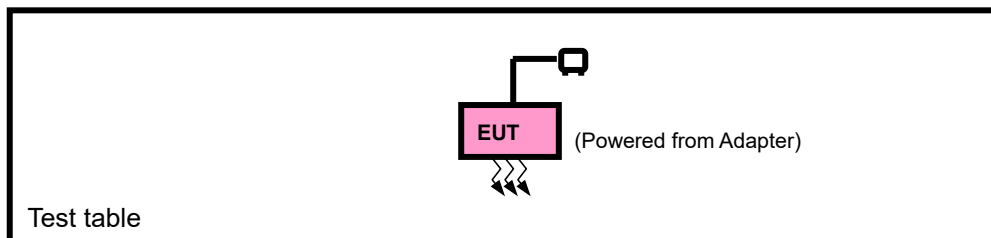
NOTE:

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

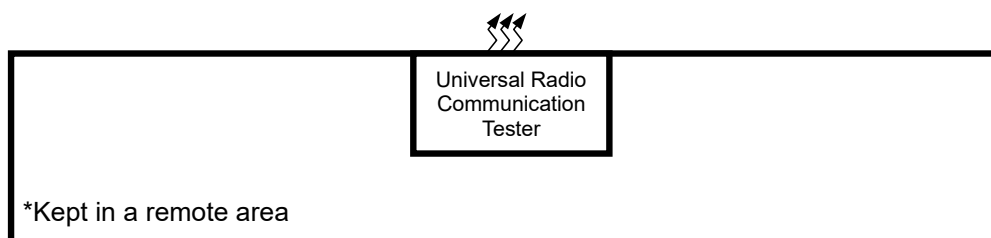
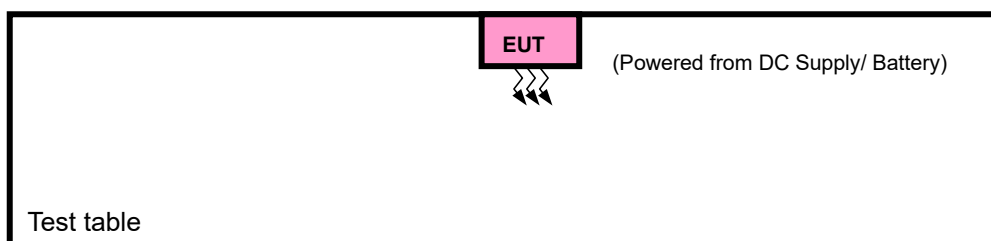
MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	2TX/2RX
WCDMA	2TX/2RX
LTE	2TX/2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the 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.

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



FOR CONDUCTED TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

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

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

2.4 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 source 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	CONDCUDETED 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	CONDCUDETED 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	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK,16QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		20407 to 20643	20643	1.4 MHz	QPSK,16QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK,16QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		20415 to 20635	20635	3 MHz	QPSK,16QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		20425 to 20625	20425	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		20425 to 20625	20625	5MHz	QPSK,16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20450 to 20600	20450	10MHz	QPSK,16QAM	1 RB / 0 RB Offset



						50 RB / 0 RB Offset
		20450 to 20600	20600	10MHz	QPSK,16QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
A	CONDCUDETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20407 to 20643	20407, 20525, 20643	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	20525	10MHz	QPSK	1 RB / 0 RB Offset

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

**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	25deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
FREQUENCY STABILITY	25deg. C, 70%RH	DC 3.6/3.84/4.4 By DC Source	James Fu
OCCUPIED BANDWIDTH	25deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
BAND EDGE	25deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
CONDCUDED EMISSION	25deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
RADIATED EMISSION	25deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	25deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu

2.5 EUT OPERATING CONDITIONS

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

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 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 is 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 isotopically 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.

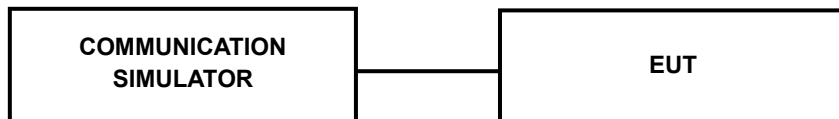
CONDUCTED POWER MEASUREMENT:

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)

Ant 0(UP):

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	32.20	32.37	32.43
GPRS (GMSK, 1Tx-slot)	32.19	32.31	32.36
GPRS (GMSK, 2Tx-slot)	28.81	28.92	29.05
GPRS (GMSK, 3Tx-slot)	27.32	27.45	27.62
GPRS (GMSK, 4Tx-slot)	26.27	26.40	26.54
EDGE (8PSK, 1Tx-slot)	26.88	26.94	26.77
EDGE (8PSK, 2Tx-slot)	23.63	23.66	23.42
EDGE (8PSK, 3Tx-slot)	21.86	21.88	21.68
EDGE (8PSK, 4Tx-slot)	21.03	20.98	21.04

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.17	24.19	24.25
HSDPA Subtest-1	23.26	23.35	23.43
HSDPA Subtest-2	23.37	23.36	23.42
HSDPA Subtest-3	22.77	22.80	22.88
HSDPA Subtest-4	22.84	22.78	22.87
DC-HSDPA Subtest-1	23.33	23.35	23.35
DC-HSDPA Subtest-2	23.34	23.32	23.39
DC-HSDPA Subtest-3	22.87	22.89	22.93
DC-HSDPA Subtest-4	22.79	22.81	22.90
HSUPA Subtest-1	21.51	21.55	21.58
HSUPA Subtest-2	21.16	21.29	21.27
HSUPA Subtest-3	22.13	22.10	22.24
HSUPA Subtest-4	21.10	21.16	21.20
HSUPA Subtest-5	22.13	22.08	22.15
HSPA+ Subtest-1	21.38	21.41	21.55



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	24.04	23.99	24.06
		1	2	24.15	23.98	24.20
		1	5	23.97	23.84	24.06
		3	0	24.11	24.10	23.98
		3	1	24.07	24.08	24.11
		3	3	24.08	24.00	24.16
		6	0	23.08	23.03	23.08
	16QAM	1	0	23.25	23.28	23.27
		1	2	23.40	23.31	23.46
		1	5	23.24	23.19	23.26
		3	0	23.08	23.04	23.00
		3	1	23.10	23.06	23.26
		3	3	23.06	23.09	23.16
		6	0	22.10	22.15	22.06
	64QAM	1	0	22.23	22.24	22.23
		1	2	22.21	22.28	22.42
		1	5	22.23	22.23	22.22
		3	0	22.07	22.10	22.03
		3	1	22.16	22.04	22.12
		3	3	22.13	22.11	22.16
		6	0	21.05	21.20	21.14



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	24.00	23.98	23.98
		1	7	24.09	23.98	24.07
		1	14	24.10	23.87	24.08
		8	0	23.12	23.09	22.99
		8	3	23.06	22.99	23.18
		8	7	23.03	23.03	23.16
		15	0	23.06	22.98	23.06
	16QAM	1	0	23.26	23.19	23.20
		1	7	23.42	23.24	23.42
		1	14	23.13	23.27	23.34
		8	0	22.11	22.11	22.07
		8	3	22.13	22.04	22.24
		8	7	22.14	22.05	22.08
		15	0	22.14	22.15	22.03
	64QAM	1	0	22.22	22.22	22.24
		1	7	22.25	22.23	22.55
		1	14	22.29	22.23	22.29
		8	0	21.06	21.02	21.05
		8	3	21.17	21.09	21.12
		8	7	21.08	21.16	21.18
		15	0	21.14	21.07	21.14



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	23.95	23.97	24.01
		1	12	24.15	24.03	24.07
		1	24	24.02	23.84	24.10
		12	0	23.05	23.06	23.04
		12	6	23.05	23.00	23.09
		12	13	23.08	23.06	23.17
		25	0	23.10	23.00	23.13
	16QAM	1	0	23.31	23.30	23.18
		1	12	23.38	23.24	23.44
		1	24	23.21	23.19	23.37
		12	0	22.10	22.05	22.10
		12	6	22.18	22.09	22.27
		12	13	22.07	22.13	22.12
		25	0	22.04	22.05	22.14
	64QAM	1	0	22.23	22.25	22.25
		1	12	22.22	22.30	22.46
		1	24	22.23	22.16	22.29
		12	0	21.07	21.08	21.03
		12	6	21.17	21.08	21.19
		12	13	21.03	21.05	21.06
		25	0	21.11	21.15	21.05



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	24.05	24.04	24.11
		1	24	24.20	24.13	24.21
		1	49	24.12	23.96	24.14
		25	0	23.14	23.12	23.07
		25	12	23.15	23.14	23.22
		25	25	23.09	23.07	23.18
		50	0	23.12	23.10	23.14
	16QAM	1	0	23.33	23.31	23.30
		1	24	23.50	23.33	23.47
		1	49	23.26	23.30	23.38
		25	0	22.19	22.19	22.14
		25	12	22.20	22.15	22.28
		25	25	22.17	22.16	22.22
		50	0	22.16	22.18	22.18
	64QAM	1	0	22.27	22.28	22.28
		1	24	22.36	22.34	22.56
		1	49	22.32	22.24	22.37
		25	0	21.15	21.12	21.13
		25	12	21.18	21.17	21.21
		25	25	21.14	21.20	21.20
		50	0	21.17	21.22	21.17



Ant 1(DOWN):

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	32.33	32.37	32.43
GPRS (GMSK, 1Tx-slot)	32.26	32.33	32.41
GPRS (GMSK, 2Tx-slot)	28.90	28.97	29.09
GPRS (GMSK, 3Tx-slot)	27.43	27.51	27.63
GPRS (GMSK, 4Tx-slot)	26.38	26.45	26.59
EDGE (8PSK, 1Tx-slot)	26.97	27.15	27.04
EDGE (8PSK, 2Tx-slot)	23.67	23.82	23.75
EDGE (8PSK, 3Tx-slot)	21.98	22.11	22.03
EDGE (8PSK, 4Tx-slot)	21.28	21.33	21.34

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.23	24.28	24.29
HSDPA Subtest-1	23.37	23.40	23.39
HSDPA Subtest-2	23.35	23.39	23.40
HSDPA Subtest-3	22.89	22.93	22.99
HSDPA Subtest-4	22.93	22.91	22.88
DC-HSDPA Subtest-1	23.35	23.38	23.39
DC-HSDPA Subtest-2	23.38	23.43	23.43
DC-HSDPA Subtest-3	22.86	22.95	22.90
DC-HSDPA Subtest-4	22.86	22.88	22.95
HSUPA Subtest-1	21.57	21.58	21.60
HSUPA Subtest-2	21.33	21.37	21.30
HSUPA Subtest-3	22.16	22.18	22.19
HSUPA Subtest-4	21.20	21.18	21.19
HSUPA Subtest-5	22.20	22.21	22.25
HSPA+ Subtest-1	21.44	21.52	21.50



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	24.15	24.34	24.24
		1	2	24.38	24.30	24.41
		1	5	24.24	24.17	24.29
		3	0	24.21	24.38	24.18
		3	1	24.26	24.32	24.32
		3	3	24.23	24.27	24.25
		6	0	23.21	23.22	23.30
	16QAM	1	0	23.45	23.50	23.55
		1	2	23.68	23.46	23.55
		1	5	23.50	23.51	23.48
		3	0	23.31	23.48	23.26
		3	1	23.25	23.33	23.42
		3	3	23.24	23.46	23.43
		6	0	22.22	22.47	22.33
	64QAM	1	0	22.42	22.52	22.43
		1	2	22.58	22.57	22.58
		1	5	22.38	22.31	22.44
		3	0	22.23	22.39	22.20
		3	1	22.31	22.41	22.36
		3	3	22.18	22.39	22.37
		6	0	21.26	21.37	21.21



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	24.18	24.25	24.29
		1	7	24.38	24.41	24.30
		1	14	24.23	24.17	24.28
		8	0	23.25	23.29	23.23
		8	3	23.23	23.39	23.39
		8	7	23.19	23.36	23.37
		15	0	23.22	23.21	23.32
	16QAM	1	0	23.49	23.54	23.44
		1	7	23.65	23.57	23.50
		1	14	23.43	23.46	23.47
		8	0	22.27	22.45	22.30
		8	3	22.30	22.41	22.34
		8	7	22.18	22.46	22.30
		15	0	22.23	22.37	22.36
	64QAM	1	0	22.37	22.55	22.46
		1	7	22.52	22.46	22.65
		1	14	22.38	22.45	22.50
		8	0	21.22	21.40	21.30
		8	3	21.30	21.34	21.37
		8	7	21.29	21.39	21.24
		15	0	21.27	21.37	21.27



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	24.09	24.23	24.24
		1	12	24.38	24.40	24.33
		1	24	24.15	24.19	24.22
		12	0	23.15	23.36	23.21
		12	6	23.22	23.38	23.30
		12	13	23.25	23.36	23.29
		25	0	23.14	23.31	23.31
	16QAM	1	0	23.48	23.52	23.43
		1	12	23.72	23.60	23.50
		1	24	23.40	23.39	23.51
		12	0	22.40	22.45	22.24
		12	6	22.29	22.40	22.39
		12	13	22.32	22.36	22.30
		25	0	22.24	22.47	22.31
	64QAM	1	0	22.45	22.54	22.44
		1	12	22.47	22.49	22.53
		1	24	22.44	22.43	22.53
		12	0	21.28	21.47	21.31
		12	6	21.26	21.35	21.36
		12	13	21.29	21.38	21.34
		25	0	21.20	21.46	21.29



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	24.23	24.35	24.32
		1	24	24.39	24.43	24.44
		1	49	24.25	24.27	24.34
		25	0	23.30	23.40	23.28
		25	12	23.32	23.41	23.43
		25	25	23.27	23.39	23.40
		50	0	23.29	23.35	23.36
	16QAM	1	0	23.50	23.55	23.56
		1	24	23.73	23.61	23.65
		1	49	23.53	23.54	23.55
		25	0	22.41	22.50	22.37
		25	12	22.38	22.43	22.47
		25	25	22.33	22.50	22.45
		50	0	22.37	22.48	22.41
	64QAM	1	0	22.46	22.62	22.50
		1	24	22.61	22.61	22.68
		1	49	22.49	22.46	22.56
		25	0	21.35	21.48	21.32
		25	12	21.37	21.42	21.39
		25	25	21.31	21.44	21.38
		50	0	21.33	21.47	21.35

ERP POWER (dBm)

Ant 0(UP):

GSM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	32.2	-5.5	24.55	285.1	7
189	836.4	32.37	-5.5	24.72	296.48	7
251	848.8	32.43	-5.5	24.78	300.61	7

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

EDGE

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	26.88	-5.5	19.23	83.75	7
189	836.4	26.94	-5.5	19.29	84.92	7
251	848.8	26.77	-5.5	19.12	81.66	7

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

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	24.17	-5.5	16.52	44.87	7
4182	836.4	24.19	-5.5	16.54	45.08	7
4233	846.6	24.25	-5.5	16.6	45.71	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	24.15	-5.5	16.5	44.67	7
20525	836.5	24.1	-5.5	16.45	44.16	7
20643	848.3	24.2	-5.5	16.55	45.19	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	23.4	-5.5	15.75	37.58	7
20525	836.5	23.31	-5.5	15.66	36.81	7
20643	848.3	23.46	-5.5	15.81	38.11	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	22.23	-5.5	14.58	28.71	7
20525	836.5	22.28	-5.5	14.63	29.04	7
20643	848.3	22.42	-5.5	14.77	29.99	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	24.1	-5.5	16.45	44.16	7
20525	836.5	23.98	-5.5	16.33	42.95	7
20635	847.5	24.08	-5.5	16.43	43.95	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	23.42	-5.5	15.77	37.76	7
20525	836.5	23.27	-5.5	15.62	36.48	7
20635	847.5	23.42	-5.5	15.77	37.76	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	22.29	-5.5	14.64	29.11	7
20525	836.5	22.23	-5.5	14.58	28.71	7
20635	847.5	22.55	-5.5	14.9	30.9	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	24.15	-5.5	16.5	44.67	7
20525	836.5	24.03	-5.5	16.38	43.45	7
20625	846.5	24.1	-5.5	16.45	44.16	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	23.38	-5.5	15.73	37.41	7
20525	836.5	23.3	-5.5	15.65	36.73	7
20625	846.5	23.44	-5.5	15.79	37.93	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	22.23	-5.5	14.58	28.71	7
20525	836.5	22.3	-5.5	14.65	29.17	7
20625	846.5	22.46	-5.5	14.81	30.27	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	24.2	-5.5	16.55	45.19	7
20525	836.5	24.13	-5.5	16.48	44.46	7
20600	844.0	24.21	-5.5	16.56	45.29	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	23.5	-5.5	15.85	38.46	7
20525	836.5	23.33	-5.5	15.68	36.98	7
20600	844.0	23.47	-5.5	15.82	38.19	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	22.36	-5.5	14.71	29.58	7
20525	836.5	22.34	-5.5	14.69	29.44	7
20600	844.0	22.56	-5.5	14.91	30.97	7

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

**Ant 1(DOWN):****GSM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	32.33	-4	26.18	414.95	7
189	836.4	32.37	-4	26.22	418.79	7
251	848.8	32.43	-4	26.28	424.62	7

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

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	26.97	-4	20.82	120.78	7
189	836.4	27.15	-4	21	125.89	7
251	848.8	27.04	-4	20.89	122.74	7

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

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	24.23	-4	18.08	64.27	7
4182	836.4	24.28	-4	18.13	65.01	7
4233	846.6	24.29	-4	18.14	65.16	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	24.38	-4	18.23	66.53	7
20525	836.5	24.38	-4	18.23	66.53	7
20643	848.3	24.41	-4	18.26	66.99	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	23.68	-4	17.53	56.62	7
20525	836.5	23.51	-4	17.36	54.45	7
20643	848.3	23.55	-4	17.4	54.95	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	22.58	-4	16.43	43.95	7
20525	836.5	22.57	-4	16.42	43.85	7
20643	848.3	22.58	-4	16.43	43.95	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	24.38	-4	18.23	66.53	7
20525	836.5	24.41	-4	18.26	66.99	7
20635	847.5	24.3	-4	18.15	65.31	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	23.65	-4	17.5	56.23	7
20525	836.5	23.57	-4	17.42	55.21	7
20635	847.5	23.5	-4	17.35	54.33	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	22.52	-4	16.37	43.35	7
20525	836.5	22.55	-4	16.4	43.65	7
20635	847.5	22.65	-4	16.5	44.67	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	24.38	-4	18.23	66.53	7
20525	836.5	24.4	-4	18.25	66.83	7
20625	846.5	24.33	-4	18.18	65.77	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	23.72	-4	17.57	57.15	7
20525	836.5	23.6	-4	17.45	55.59	7
20625	846.5	23.51	-4	17.36	54.45	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	22.47	-4	16.32	42.85	7
20525	836.5	22.54	-4	16.39	43.55	7
20625	846.5	22.53	-4	16.38	43.45	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	24.39	-4	18.24	66.68	7
20525	836.5	24.43	-4	18.28	67.3	7
20600	844.0	24.44	-4	18.29	67.45	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	23.73	-4	17.58	57.28	7
20525	836.5	23.61	-4	17.46	55.72	7
20600	844.0	23.65	-4	17.5	56.23	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	22.61	-4	16.46	44.26	7
20525	836.5	22.62	-4	16.47	44.36	7
20600	844.0	22.68	-4	16.53	44.98	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

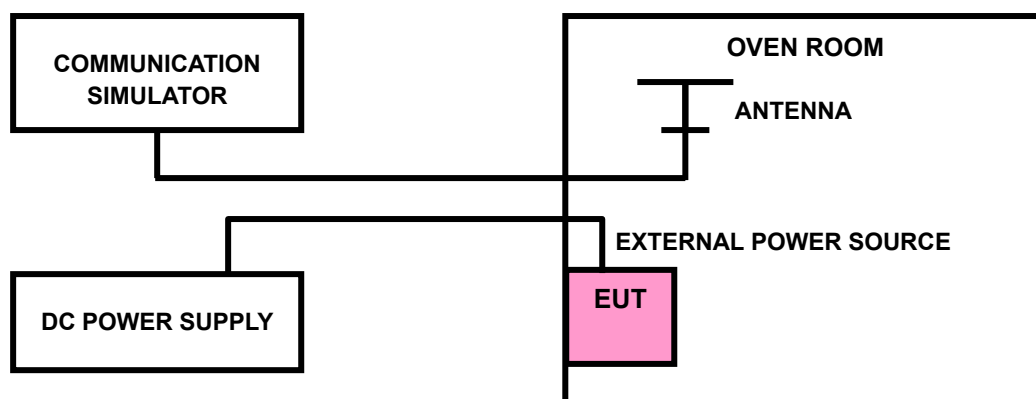
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile stations.

3.2.2 TEST PROCEDURE

- The device is placed in the oven room. The oven room could control the temperatures and humidity. Power warms up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected to 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 recording the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be holding the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. 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-P24100005RF05

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

Note: LV = Low voltage (3.6V); NV = Normal voltage (3.84V); HV= High voltage (4.4V).
NT = Normal temperature (25°C)

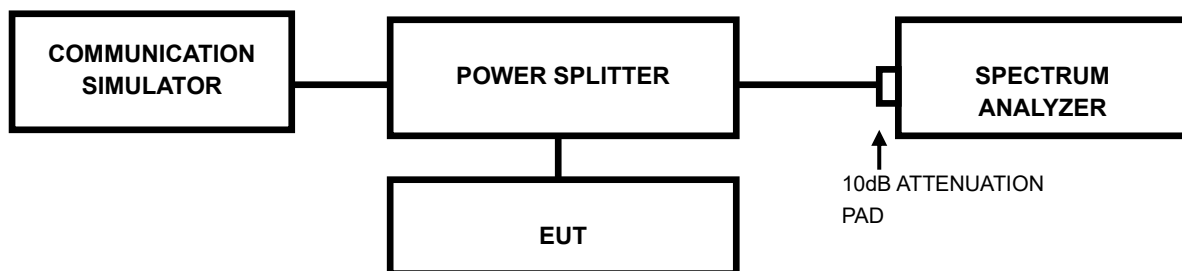
3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band is 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-P24100005RF05

3.3.4 TEST RESULTS

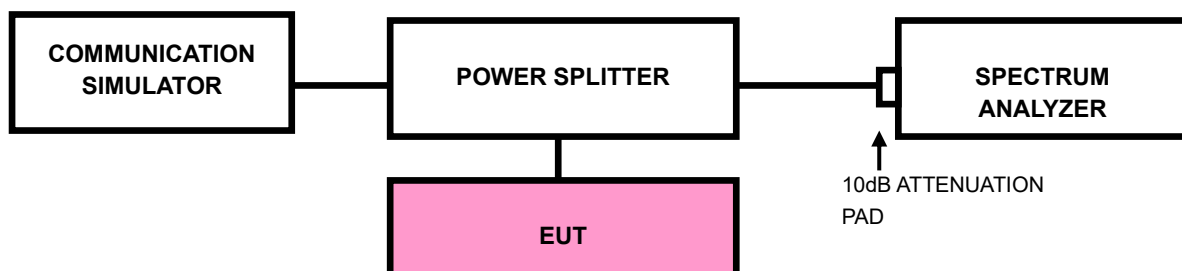
Please Refer to Appendix Of this test report.

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 5KHz or 10KHz or 100KHz.
- l) Record the max trace plot into the test report.



Test Report No.: W7L-P24100005RF05

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

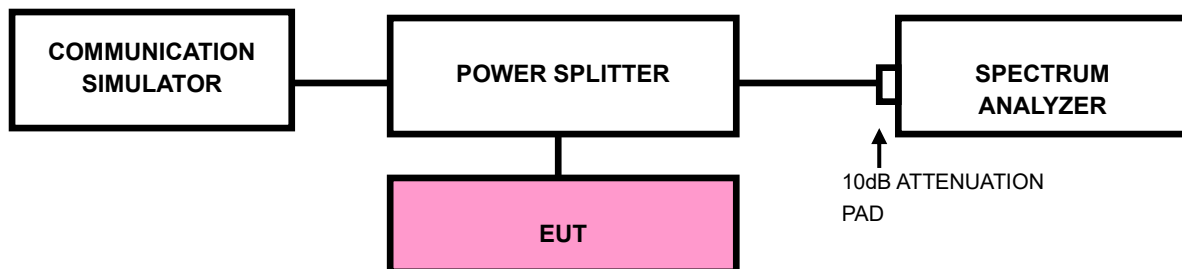
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 is 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





Test Report No.: W7L-P24100005RF05

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 is equal to -13dBm .

3.6.2 TEST PROCEDURES

- a. The substitute 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 exports the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved the 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 from E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

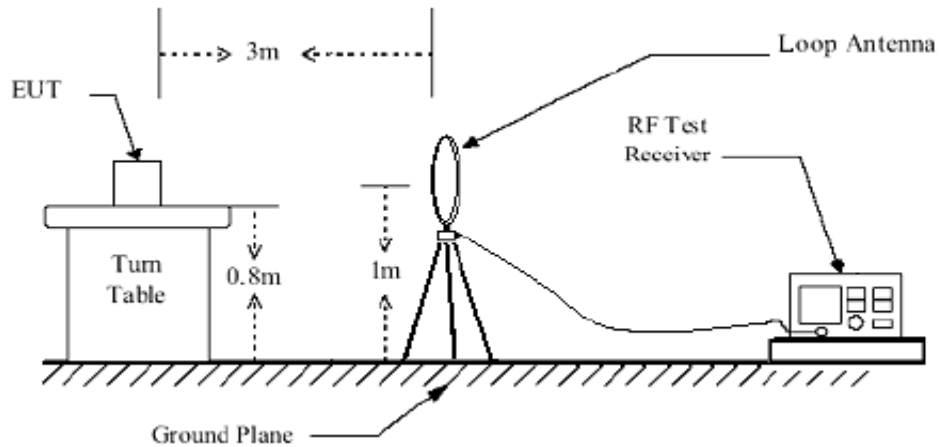
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

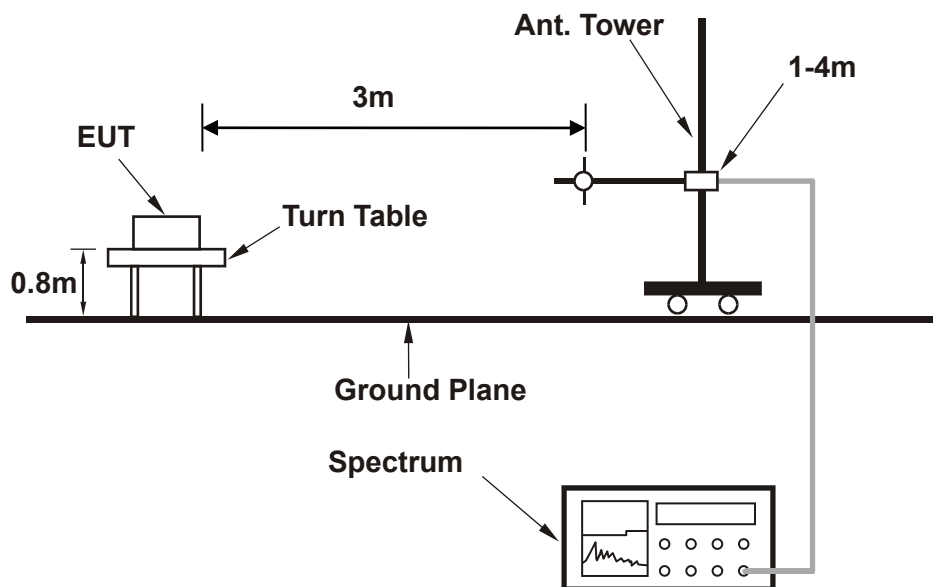
No deviation

3.6.4 TEST SETUP

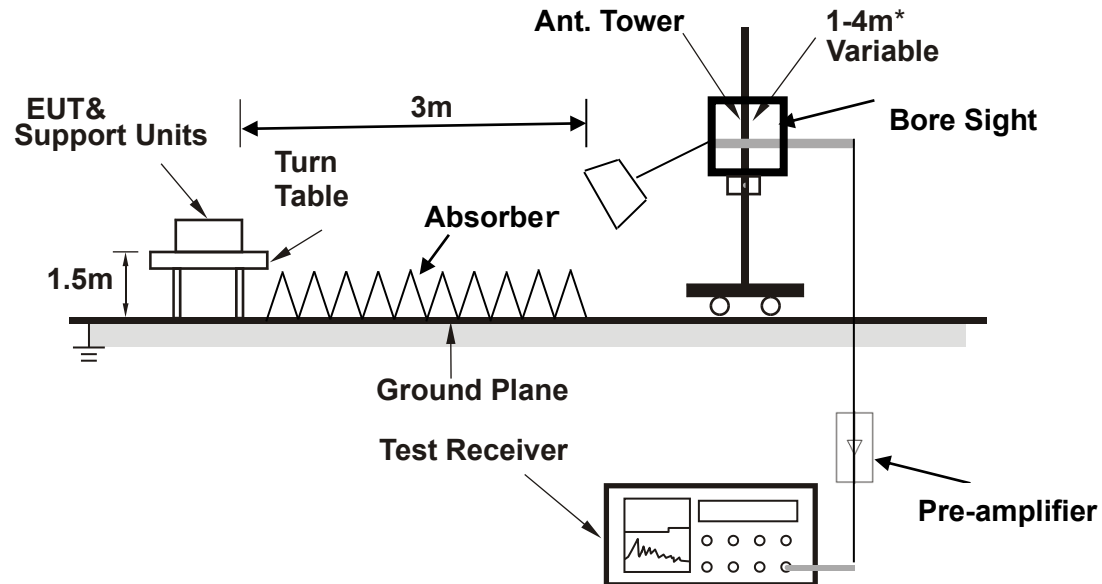
< Frequency Range below 30MHz >



< 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

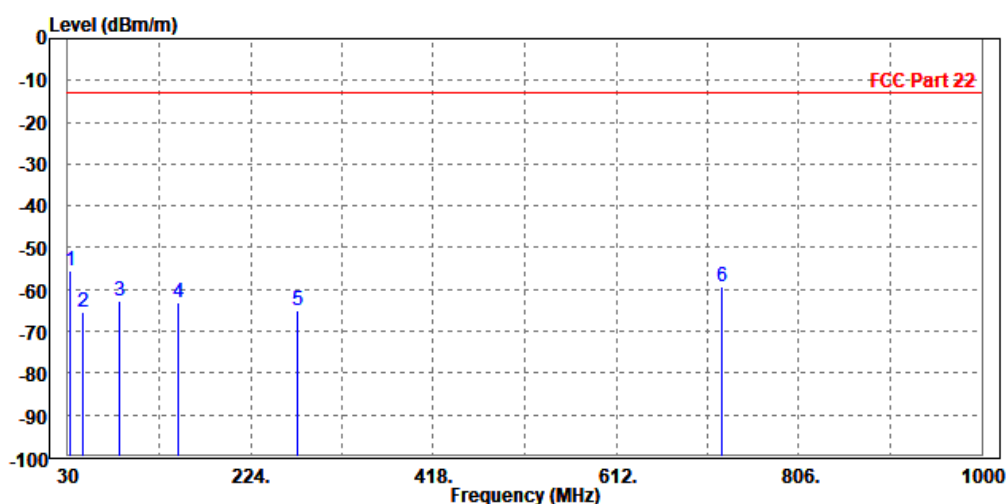
30 MHz – 1GHz data:

GSM 850(Ant0) (UP):

CHANNEL BANDWIDTH: 128 ~ 251

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: 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	31.940	-55.63	-52.59	-13.00	-42.63	-3.04	Peak	Horizontal
2	46.490	-65.36	-55.47	-13.00	-52.36	-9.89	Peak	Horizontal
3	84.320	-62.73	-50.01	-13.00	-49.73	-12.72	Peak	Horizontal
4	147.370	-62.99	-48.50	-13.00	-49.99	-14.49	Peak	Horizontal
5	274.440	-65.16	-55.14	-13.00	-52.16	-10.02	Peak	Horizontal
6	724.520	-59.48	-63.81	-13.00	-46.48	4.33	Peak	Horizontal



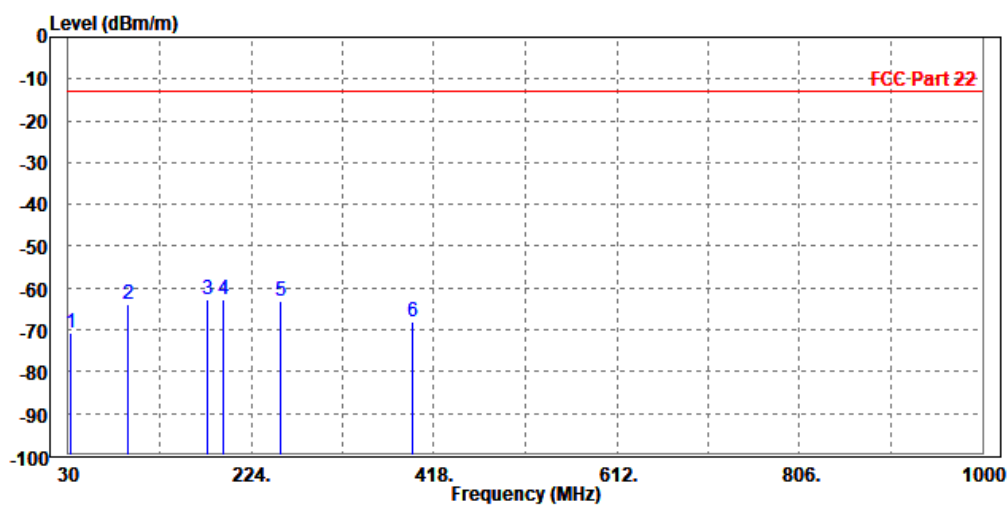


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VERITAS**

Test Report No.: W7L-P24100005RF05

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	32.910	-70.86	-49.60	-13.00	-57.86	-21.26	Peak	Vertical
2	93.050	-64.04	-46.90	-13.00	-51.04	-17.14	Peak	Vertical
3	178.410	-62.66	-52.13	-13.00	-49.66	-10.53	Peak	Vertical
4 PP	193.930	-62.56	-55.00	-13.00	-49.56	-7.56	Peak	Vertical
5	256.010	-63.12	-59.42	-13.00	-50.12	-3.70	Peak	Vertical
6	395.690	-68.21	-64.09	-13.00	-55.21	-4.12	Peak	Vertical





Test Report No.: W7L-P24100005RF05

ABOVE 1GHz DATA

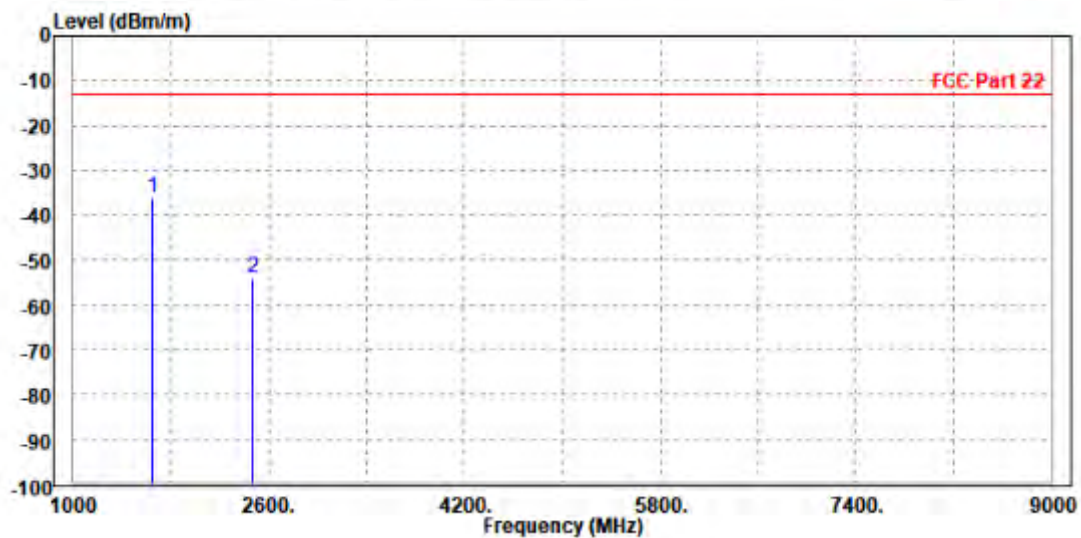
Note: For higher frequency, the emission is too low to be detected.

GSM 850(Ant0) (UP):

CH 128:

MODE	TX channel 128	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			

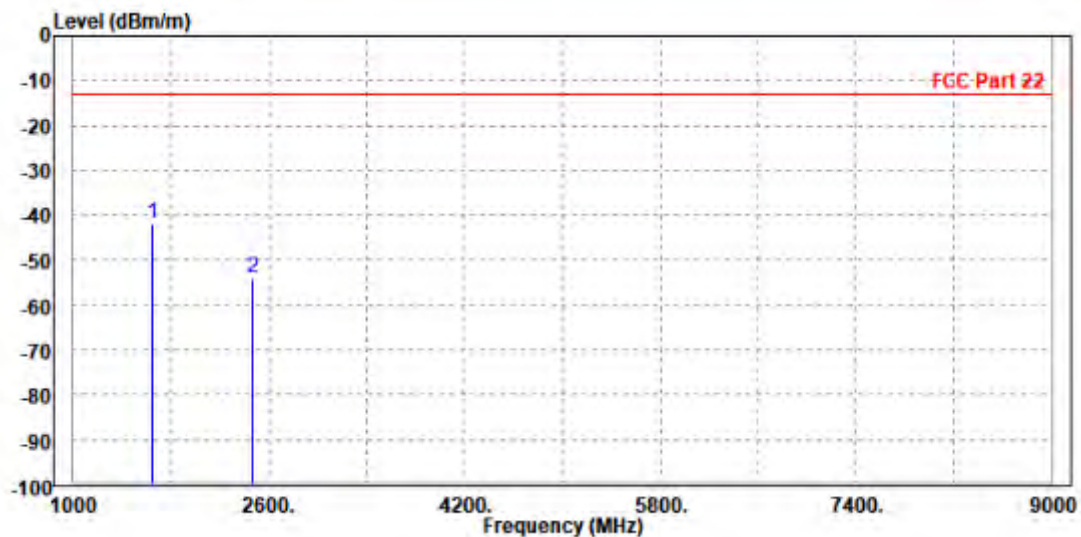
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1648.000	-36.02	-39.68	-13.00	-23.02	3.66	Peak	Horizontal
2	2472.000	-54.04	-60.06	-13.00	-41.04	6.02	Peak	Horizontal





MODE	TX channel 128	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	1648.000	-41.89	-45.28	-13.00	-28.89	3.39	Peak	Vertical
2		2472.000	-54.10	-59.78	-13.00	-41.10	5.68	Peak	Vertical

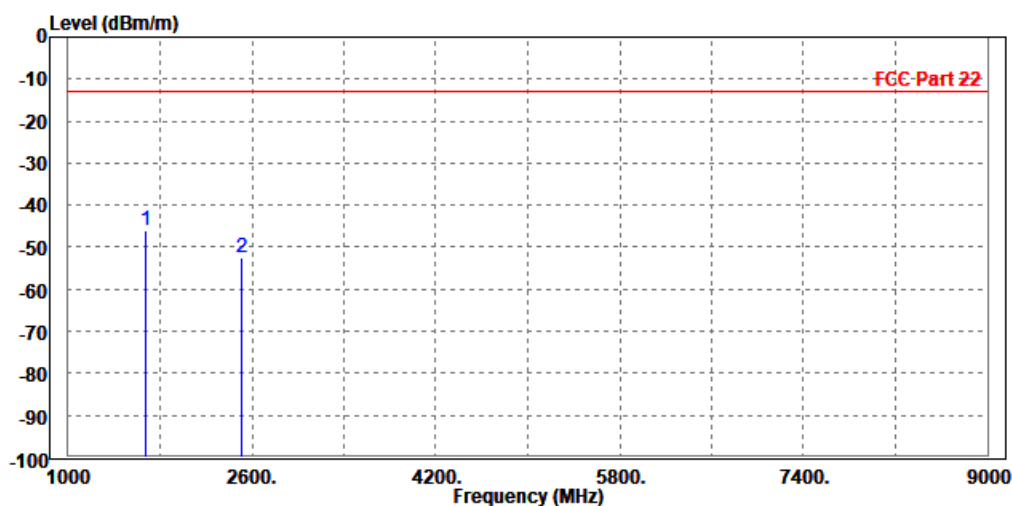




CH 189:

MODE	TX channel 189	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	1672.000	-45.88	-49.61	-13.00	-32.88	3.73	Peak	Horizontal
2		2512.000	-52.48	-58.63	-13.00	-39.48	6.15	Peak	Horizontal



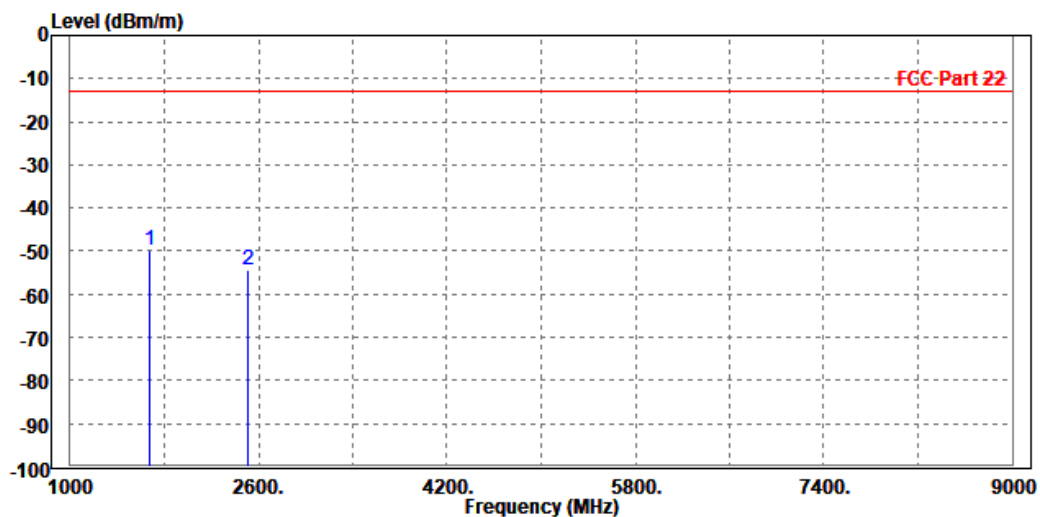


BUREAU
VERITAS

Test Report No.: W7L-P24100005RF05

MODE	TX channel 189	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	1672.000	-49.94	-53.37	-13.00	-36.94	3.43	Peak	Vertical
2		2512.000	-54.47	-60.32	-13.00	-41.47	5.85	Peak	Vertical

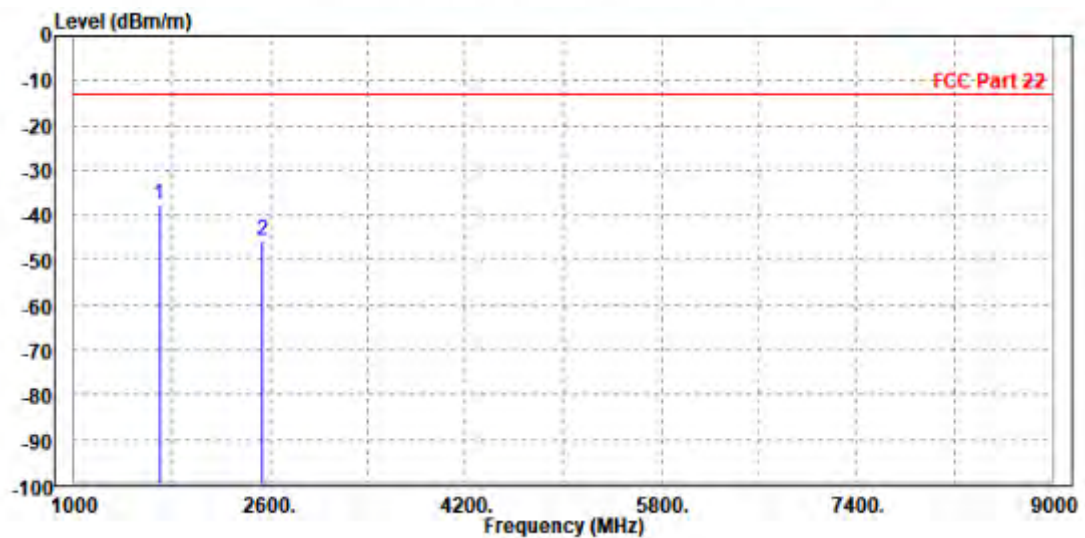




CH 251:

MODE	TX channel 251	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			

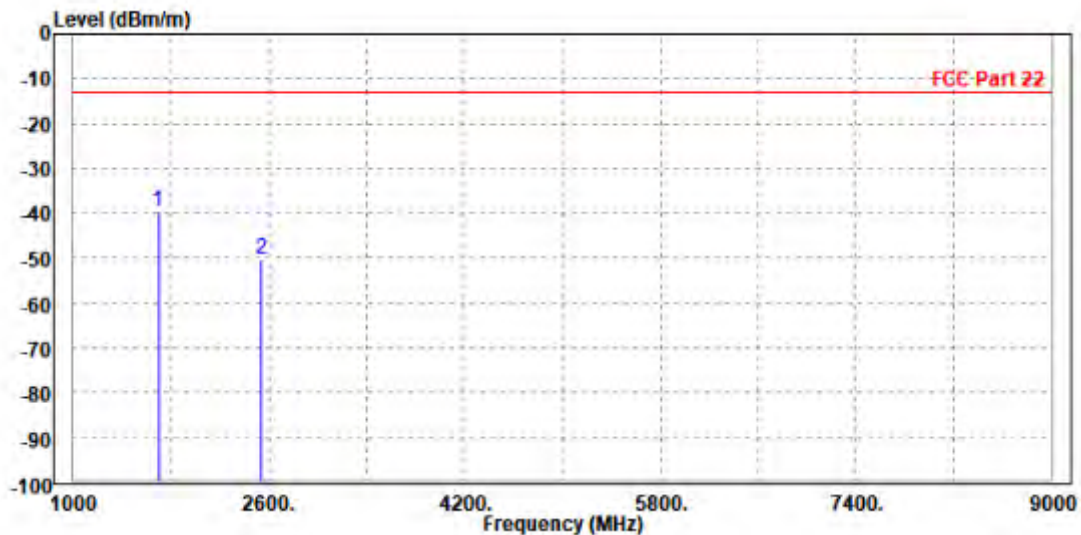
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1696.000	-37.73	-41.54	-13.00	-24.73	3.81	Peak	Horizontal
2		2544.000	-45.62	-51.91	-13.00	-32.62	6.29	Peak	Horizontal





MODE	TX channel 251	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	1696.000	-39.43	-42.90	-13.00	-26.43	3.47	Peak	Vertical
2	2544.000	-50.30	-56.35	-13.00	-37.30	6.05	Peak	Vertical

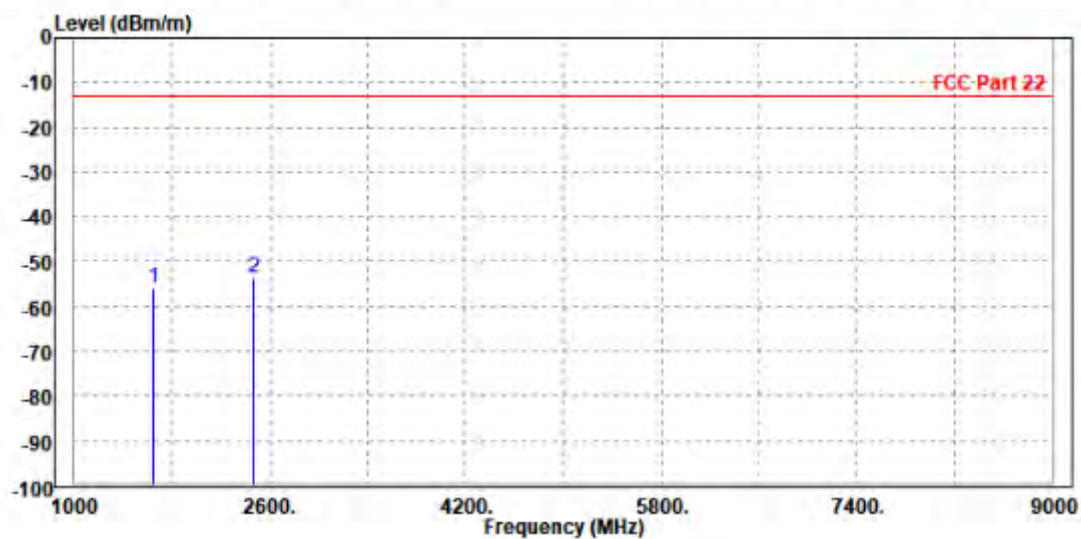


EDGE 850(Ant0) (UP):

CH 128:

MODE	TX channel 128	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	1648.000	-55.76	-59.42	-13.00	-42.76	3.66	Peak	Horizontal
2 PP	2472.000	-53.50	-59.52	-13.00	-40.50	6.02	Peak	Horizontal



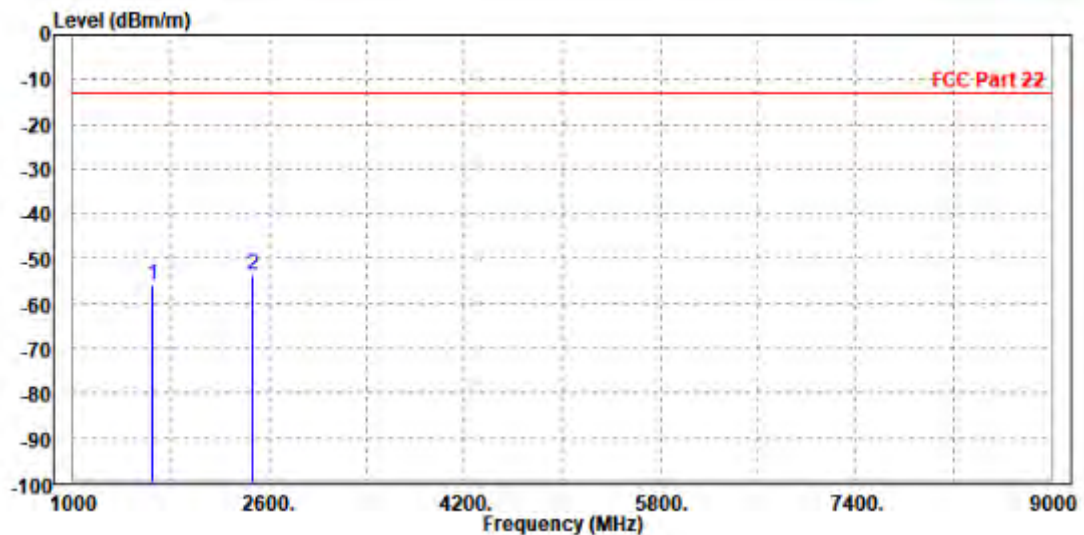


BUREAU
VERITAS

Test Report No.: W7L-P24100005RF05

MODE	TX channel 128	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	1648.000	-56.08	-59.47	-13.00	-43.08	3.39	Peak	Vertical
2 PP	2472.000	-53.77	-59.45	-13.00	-40.77	5.68	Peak	Vertical

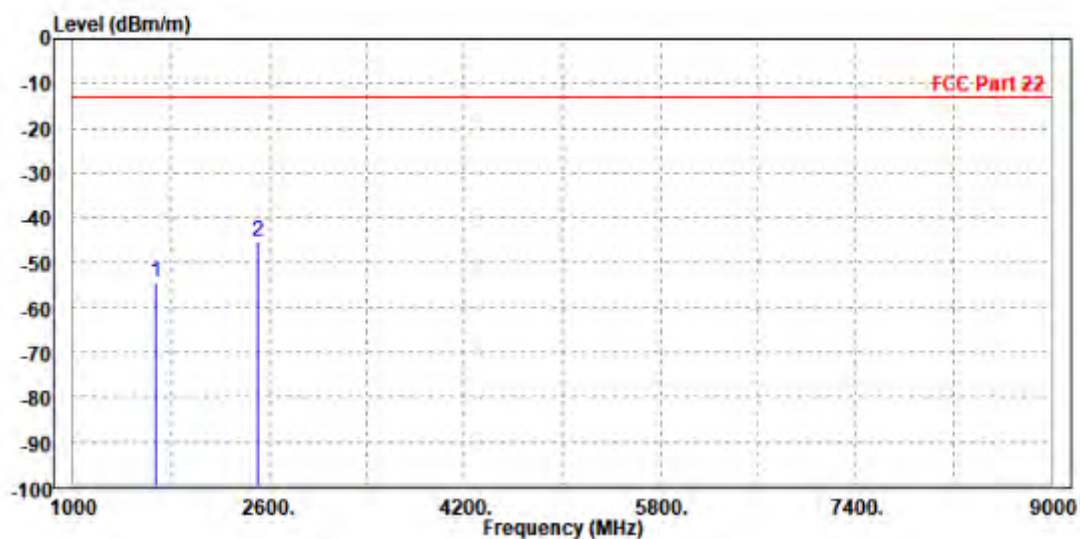




CH 189:

MODE	TX channel 189	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			

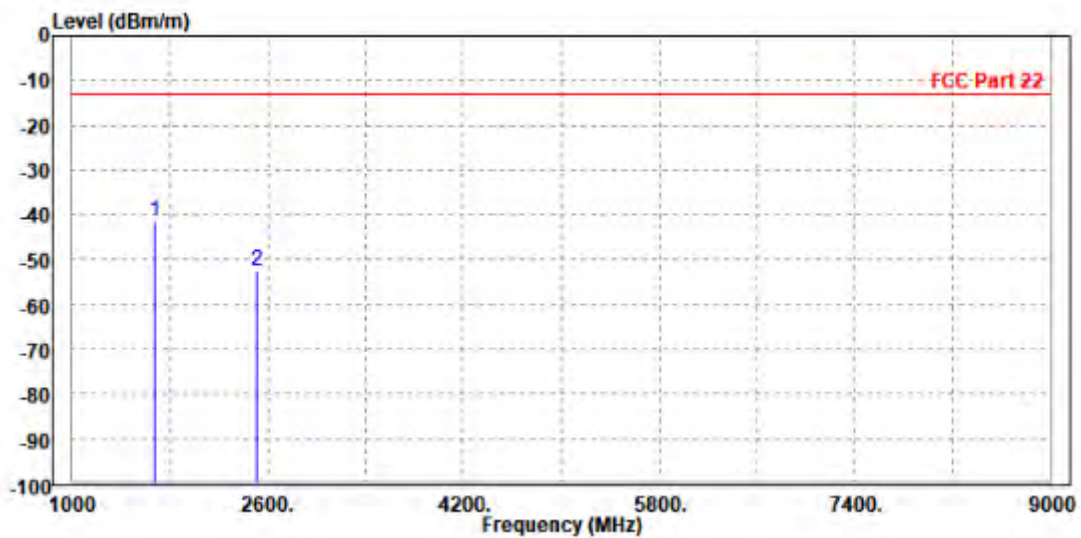
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.55	-58.28	-13.00	-41.55	3.73	Peak	Horizontal
2 PP	2512.000	-45.39	-51.54	-13.00	-32.39	6.15	Peak	Horizontal





MODE	TX channel 189	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	1672.000	-41.46	-44.89	-13.00	-28.46	3.43	Peak	Vertical
2	2508.000	-52.54	-58.37	-13.00	-39.54	5.83	Peak	Vertical

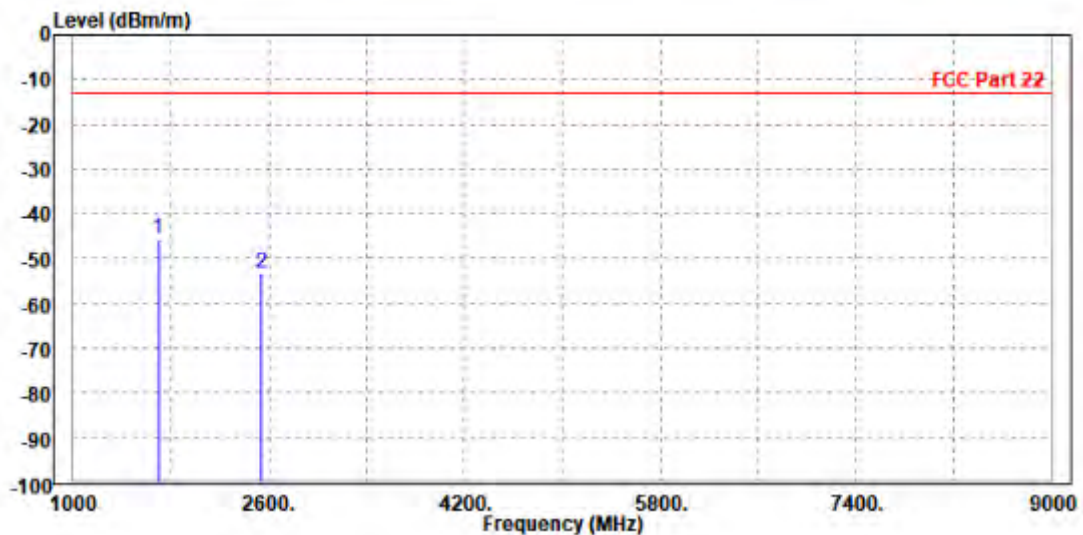




CH 251:

MODE	TX channel 251	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			

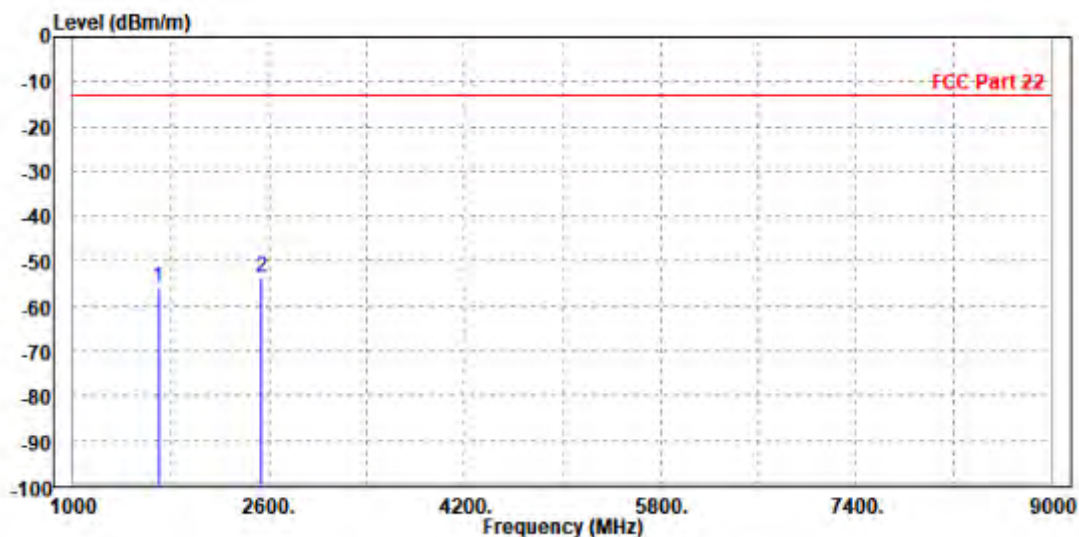
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1696.000	-45.56	-49.37	-13.00	-32.56	3.81	Peak	Horizontal
2		2544.000	-53.09	-59.38	-13.00	-40.09	6.29	Peak	Horizontal





MODE	TX channel 251	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	-55.87	-59.34	-13.00	-42.87	3.47	Peak	Vertical
2 PP	2544.000	-53.74	-59.79	-13.00	-40.74	6.05	Peak	Vertical

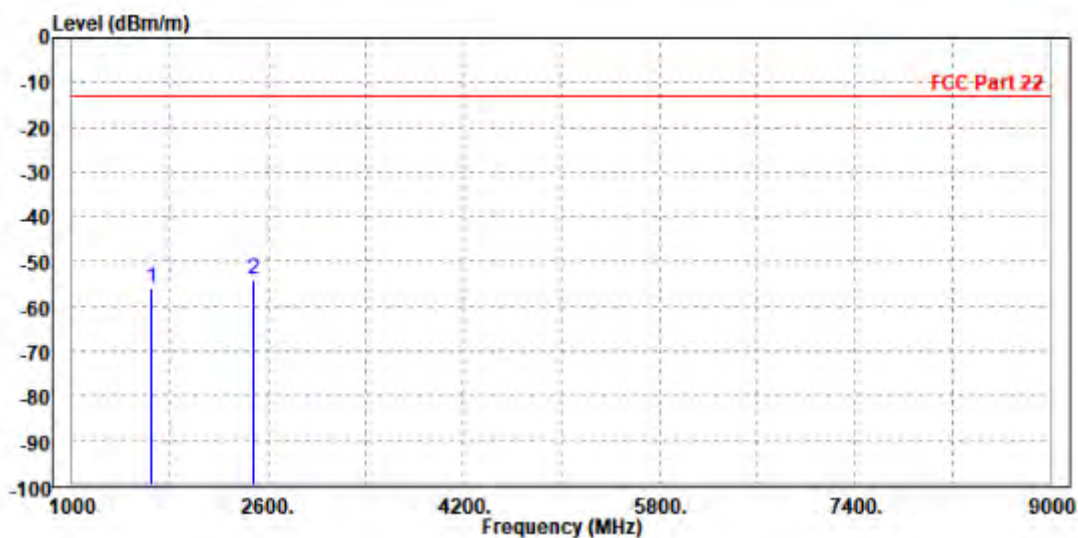


WCDMA Band V(Ant1) (DOWN):

CH 4132:

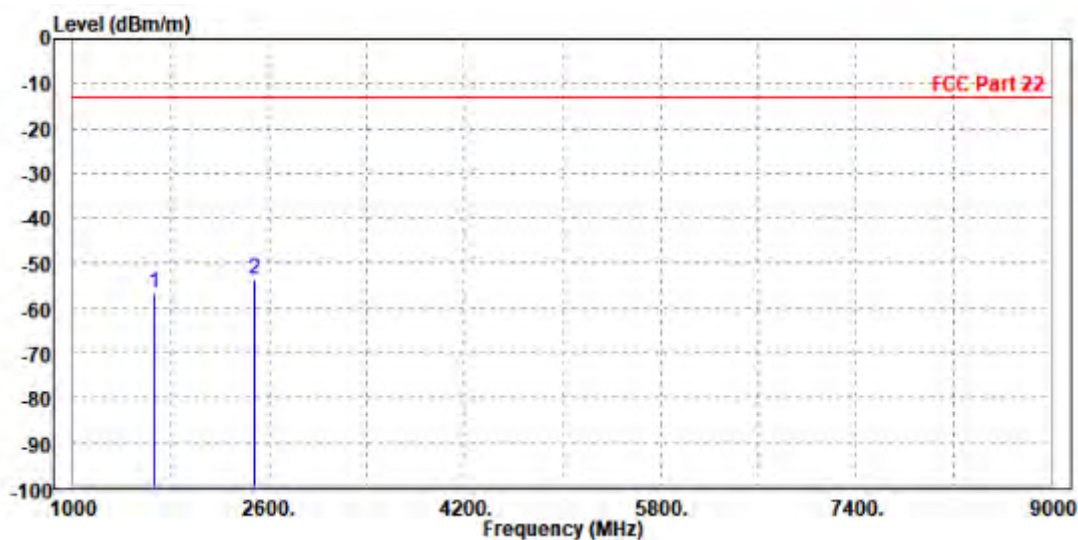
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1652.000	-55.78	-59.45	-13.00	-42.78	3.67	Peak	Horizontal
2 PP	2480.000	-54.13	-60.18	-13.00	-41.13	6.05	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			

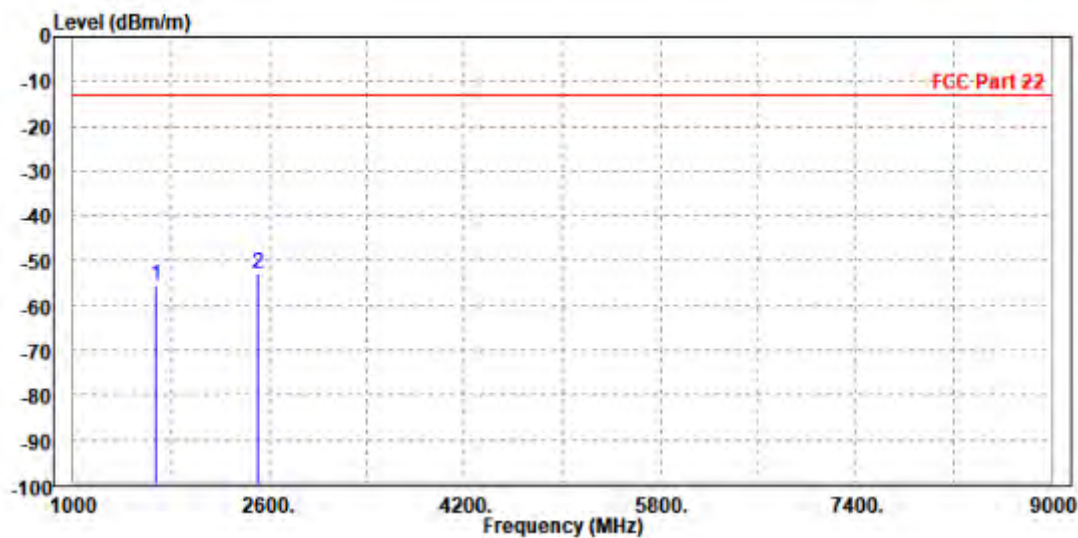
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1656.000	-56.68	-60.08	-13.00	-43.68	3.40	Peak	Vertical
2 PP	2478.000	-53.48	-59.18	-13.00	-40.48	5.70	Peak	Vertical



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	-55.67	-59.40	-13.00	-42.67	3.73	Peak	Horizontal
2 PP	2504.000	-52.69	-58.81	-13.00	-39.69	6.12	Peak	Horizontal



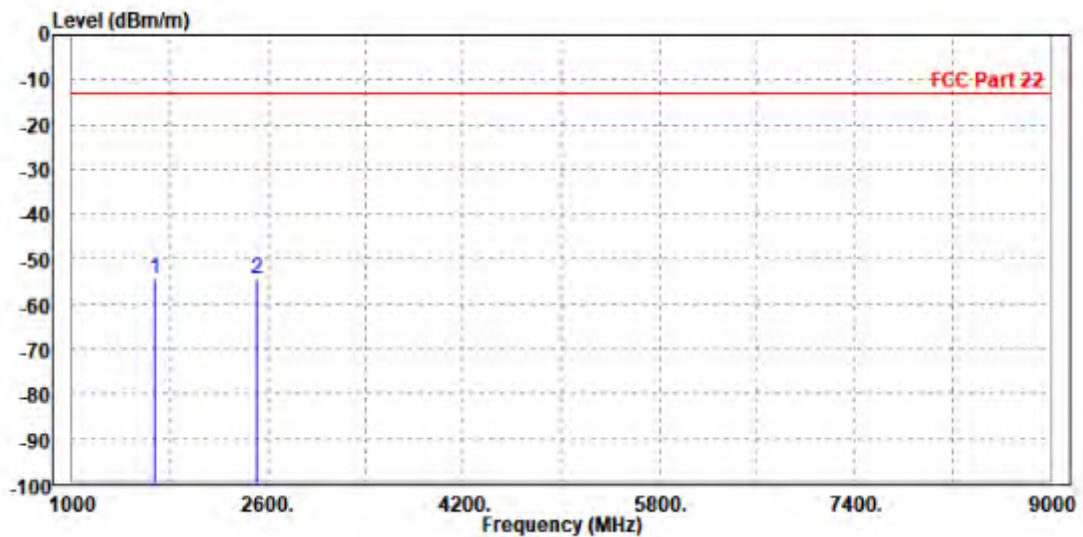


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Test Report No.: W7L-P24100005RF05

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			

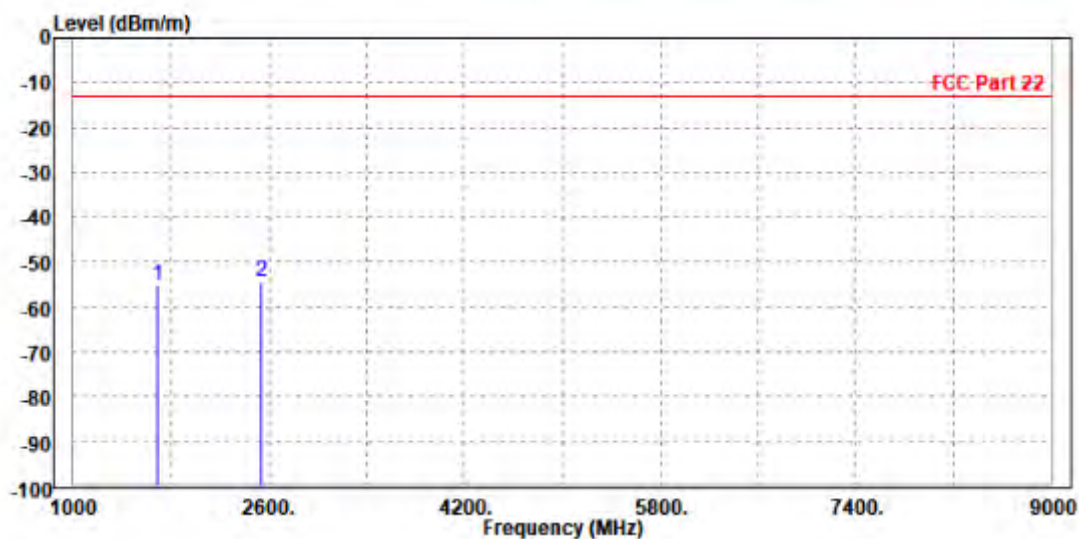
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.41	-57.84	-13.00	-41.41	3.43	Peak	Vertical
2 PP	2508.000	-54.22	-60.05	-13.00	-41.22	5.83	Peak	Vertical



CH 4233:

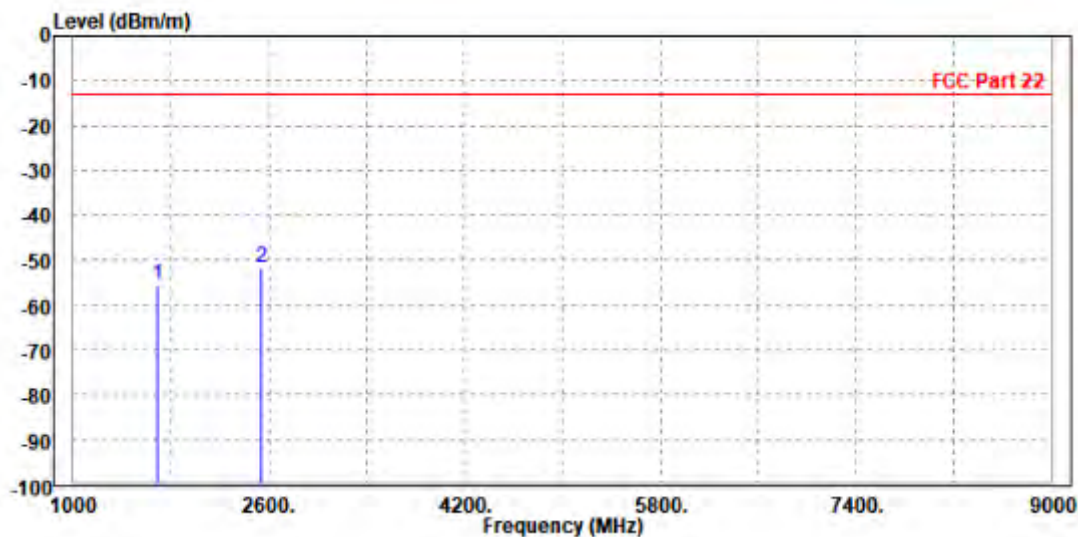
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1692.000	-55.01	-58.81	-13.00	-42.01	3.80	Peak	Horizontal
2 PP	2538.000	-54.28	-60.54	-13.00	-41.28	6.26	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	1692.000	-55.45	-58.91	-13.00	-42.45	3.46	Peak	Vertical
2 PP	2536.000	-51.82	-57.82	-13.00	-38.82	6.00	Peak	Vertical





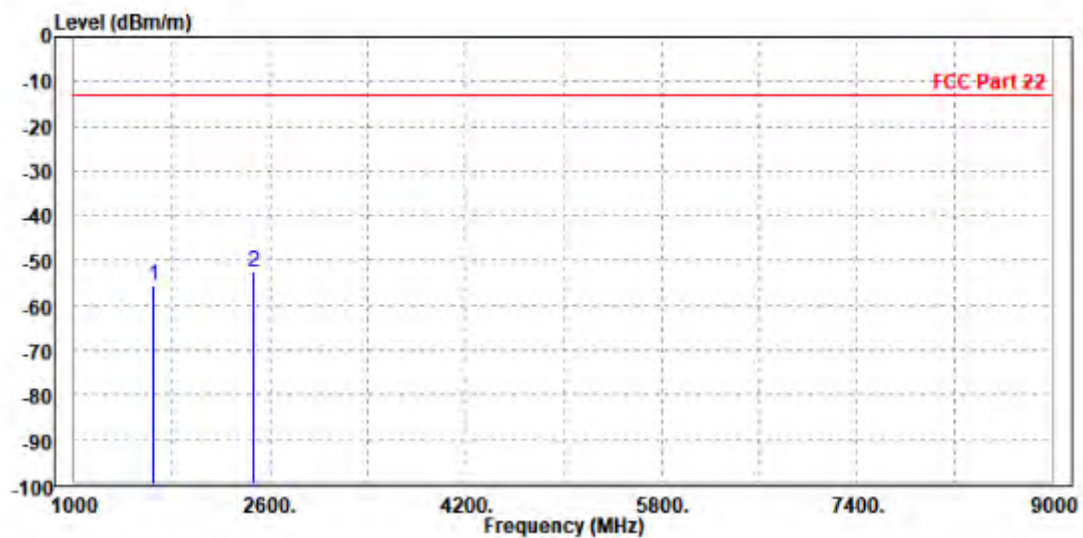
LTE Band 5(Ant1) (DOWN):

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH20407

MODE	TX channel 20407	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			

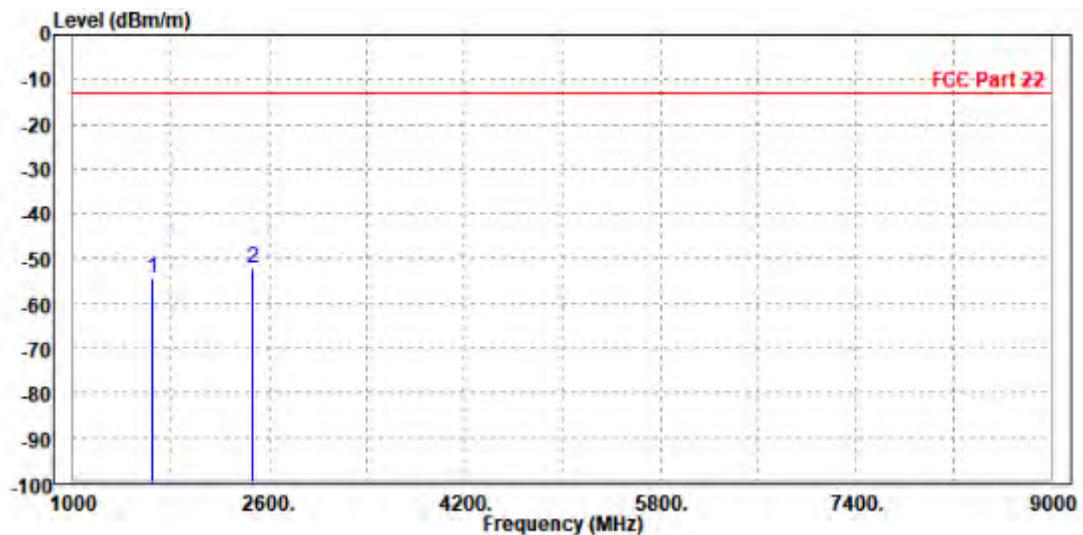
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-55.67	-59.33	-13.00	-42.67	3.66	Peak	Horizontal
2 PP	2472.000	-52.47	-58.49	-13.00	-39.47	6.02	Peak	Horizontal





MODE	TX channel 20407	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	1648.000	-54.46	-57.85	-13.00	-41.46	3.39	Peak	Vertical
2 PP	2472.000	-52.26	-57.94	-13.00	-39.26	5.68	Peak	Vertical

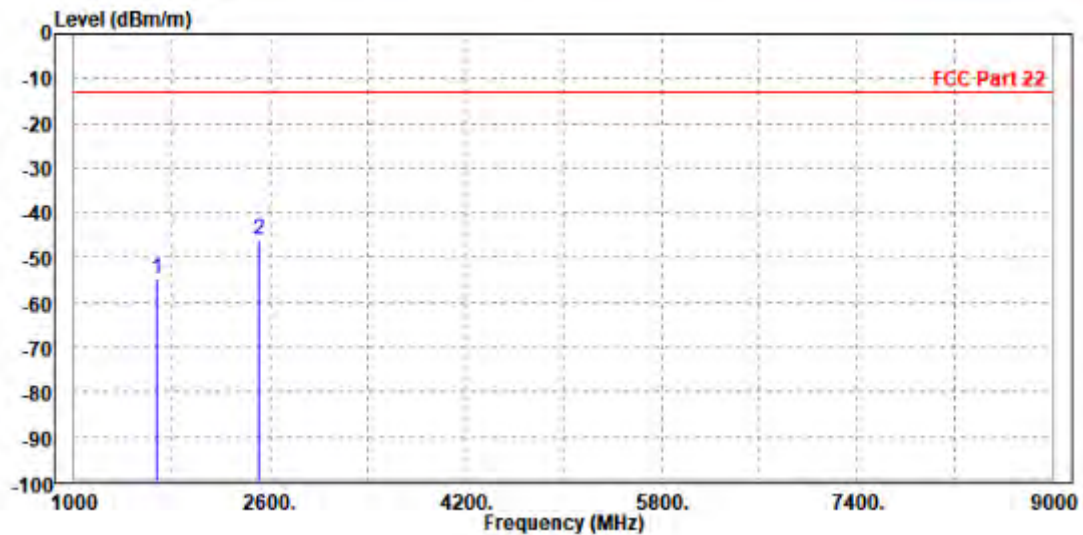




CH20525

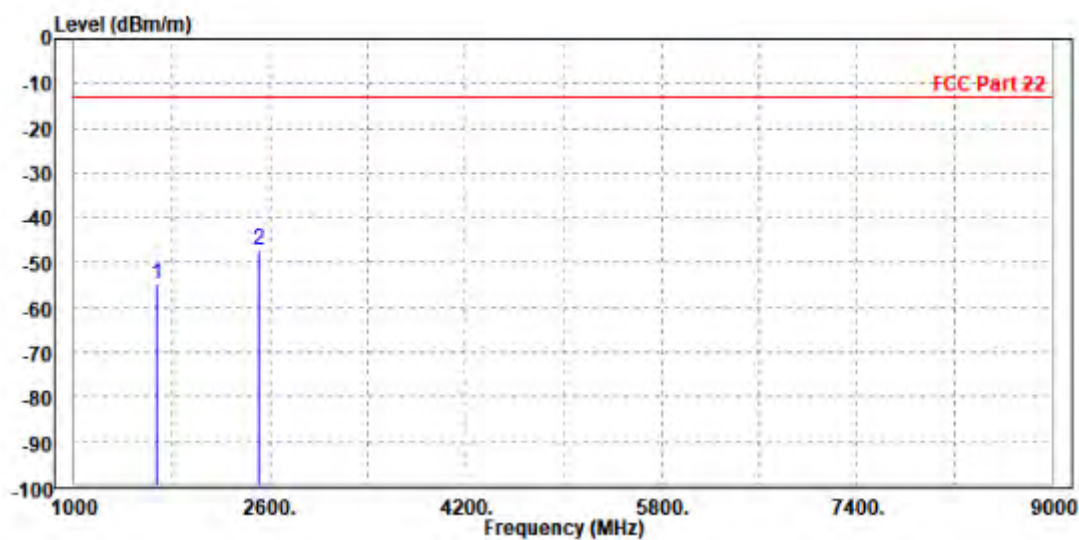
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.64	-58.37	-13.00	-41.64	3.73	Peak	Horizontal
2 PP	2512.000	-46.16	-52.31	-13.00	-33.16	6.15	Peak	Horizontal



MODE	TX channel 20643	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			

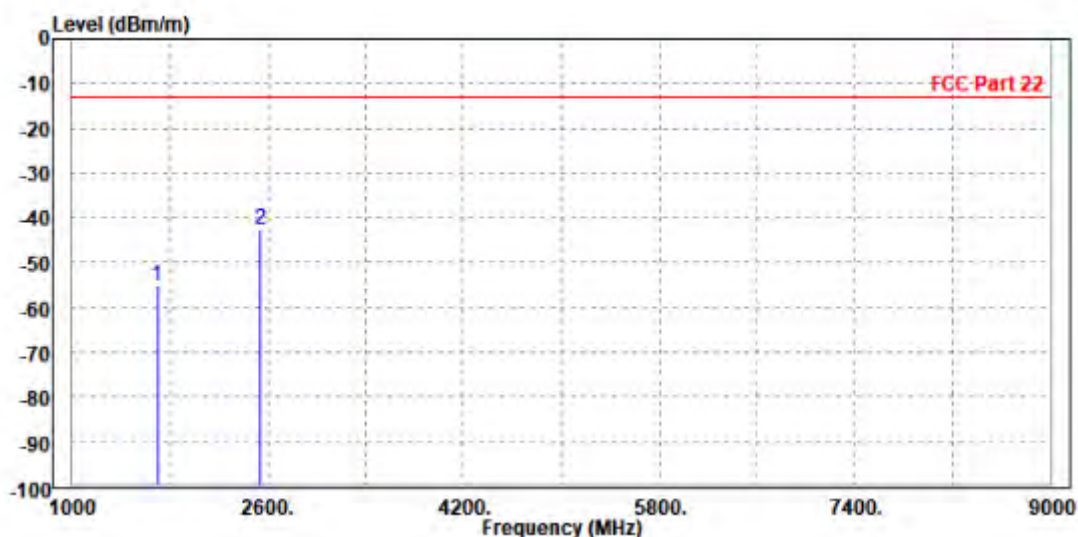
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-54.84	-58.27	-13.00	-41.84	3.43	Peak	Vertical
2 PP	2512.000	-46.96	-52.81	-13.00	-33.96	5.85	Peak	Vertical



CH20525

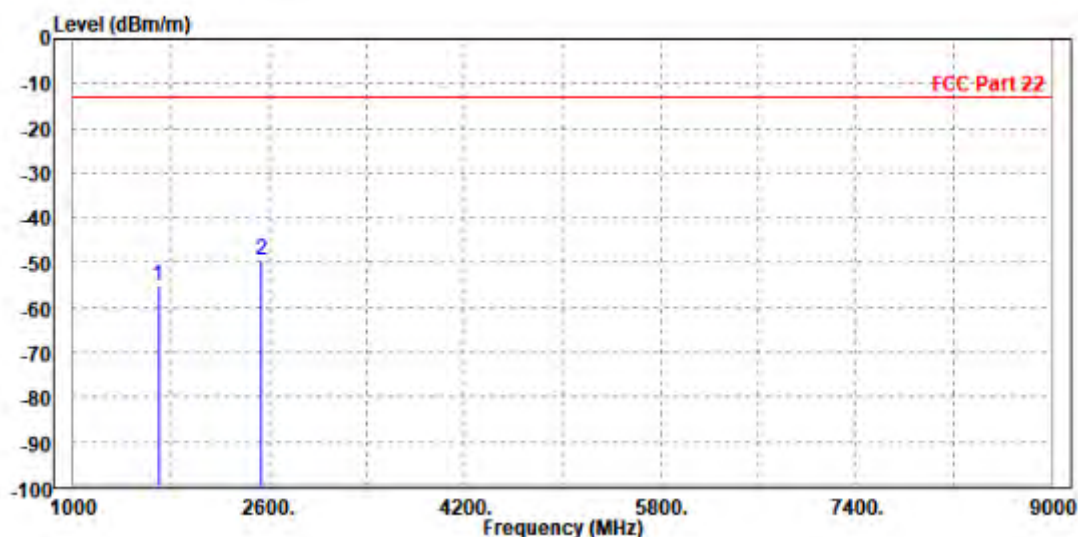
MODE	TX channel 20643	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1696.000	-55.13	-58.94	-13.00	-42.13	3.81	Peak	Horizontal
2 PP	2544.000	-42.49	-48.78	-13.00	-29.49	6.29	Peak	Horizontal



MODE	TX channel 20525	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			

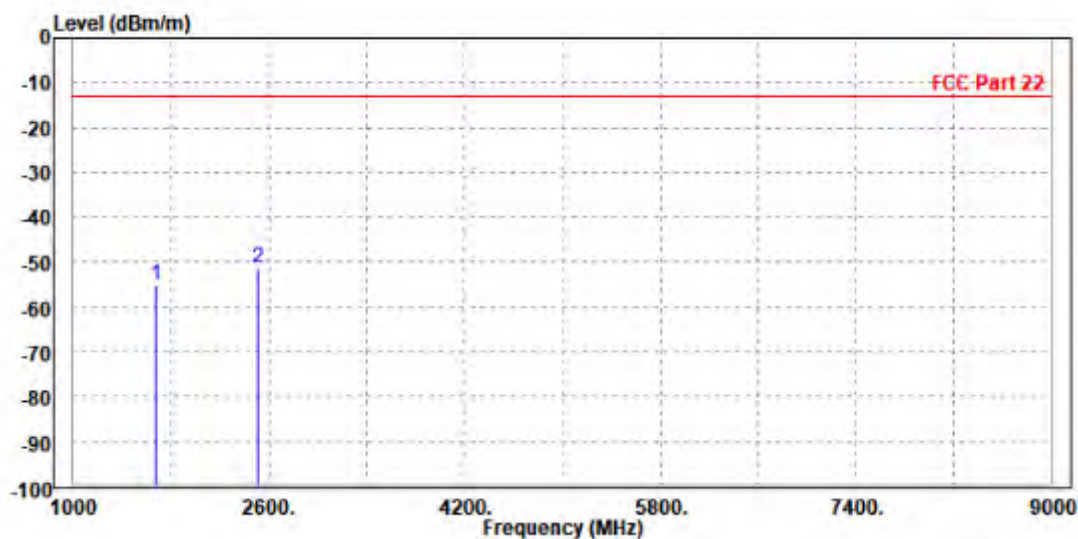
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1696.000	-55.14	-58.61	-13.00	-42.14	3.47	Peak	Vertical
2 PP	2544.000	-49.52	-55.57	-13.00	-36.52	6.05	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 20525	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			

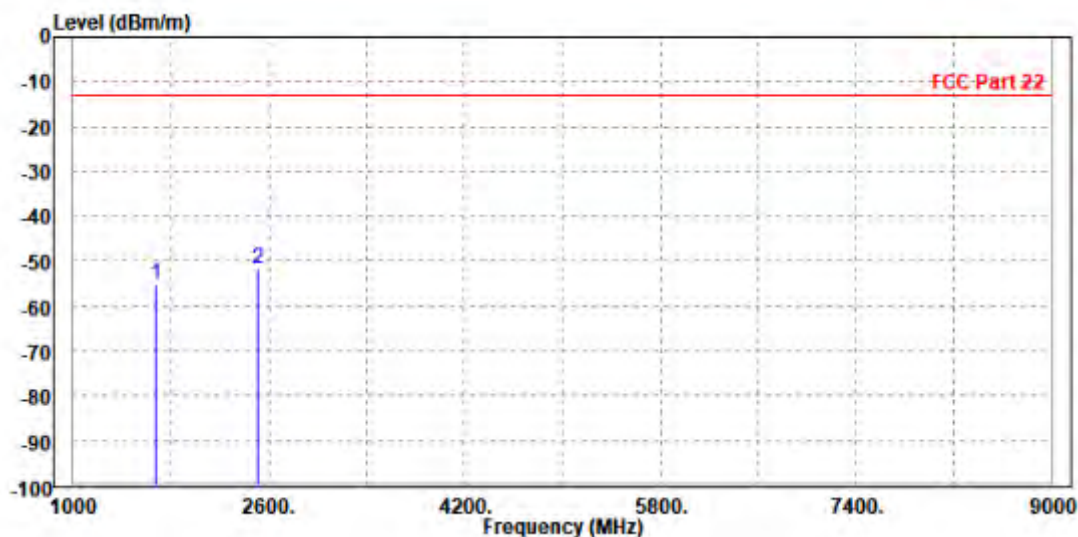
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.17	-58.90	-13.00	-42.17	3.73	Peak	Horizontal
2 PP	2508.000	-51.42	-57.55	-13.00	-38.42	6.13	Peak	Horizontal





MODE	TX channel 20525	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	1672.000	-54.98	-58.41	-13.00	-41.98	3.43	Peak	Vertical
2 PP	2504.000	-51.56	-57.36	-13.00	-38.56	5.80	Peak	Vertical

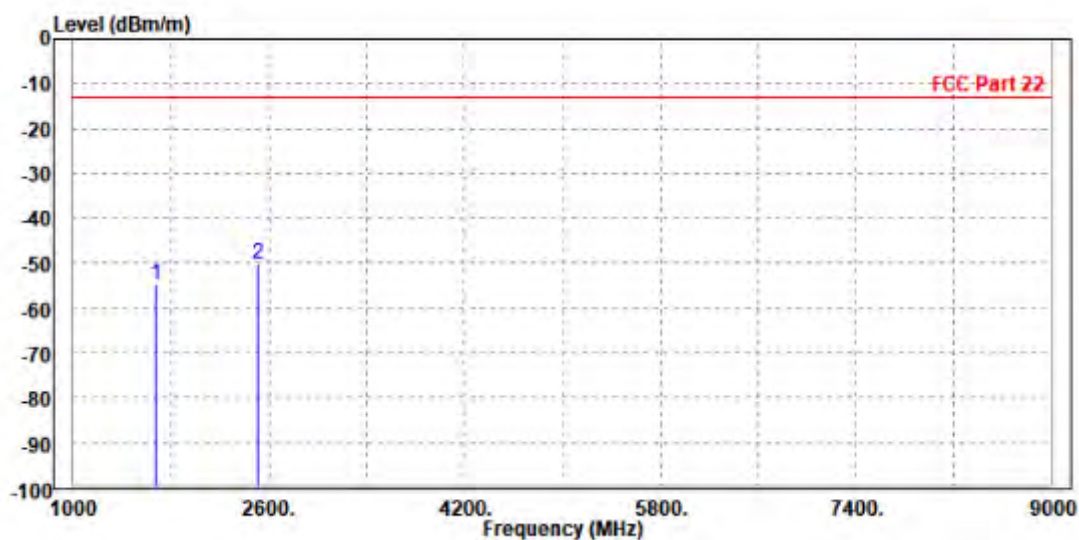




CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 20525	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	-54.91	-58.64	-13.00	-41.91	3.73	Peak	Horizontal
2 PP	2508.000	-50.30	-56.43	-13.00	-37.30	6.13	Peak	Horizontal



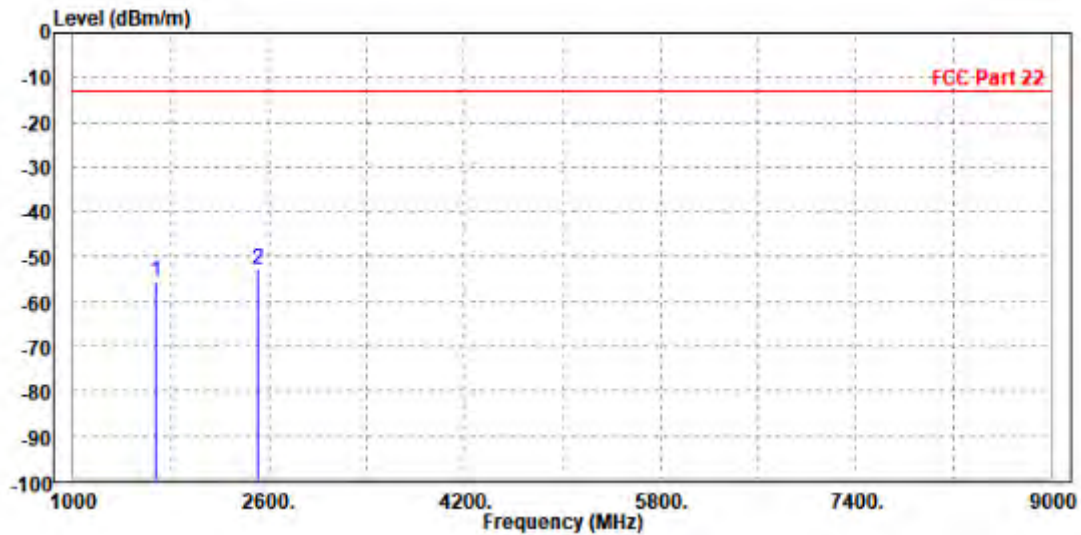


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Test Report No.: W7L-P24100005RF05

MODE	TX channel 20525	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			

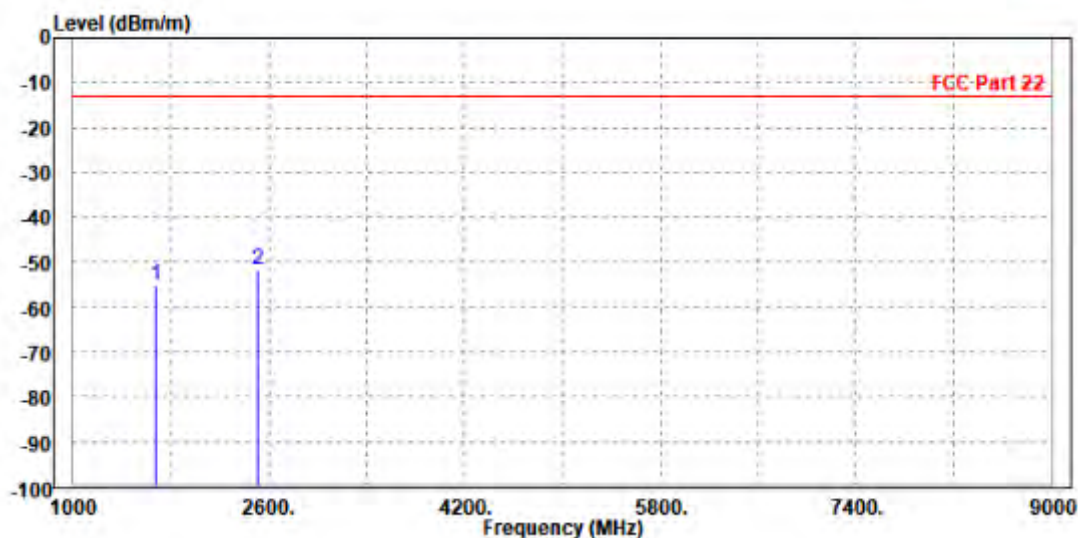
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.55	-58.98	-13.00	-42.55	3.43	Peak	Vertical
2 PP	2508.000	-53.00	-58.83	-13.00	-40.00	5.83	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20525	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			

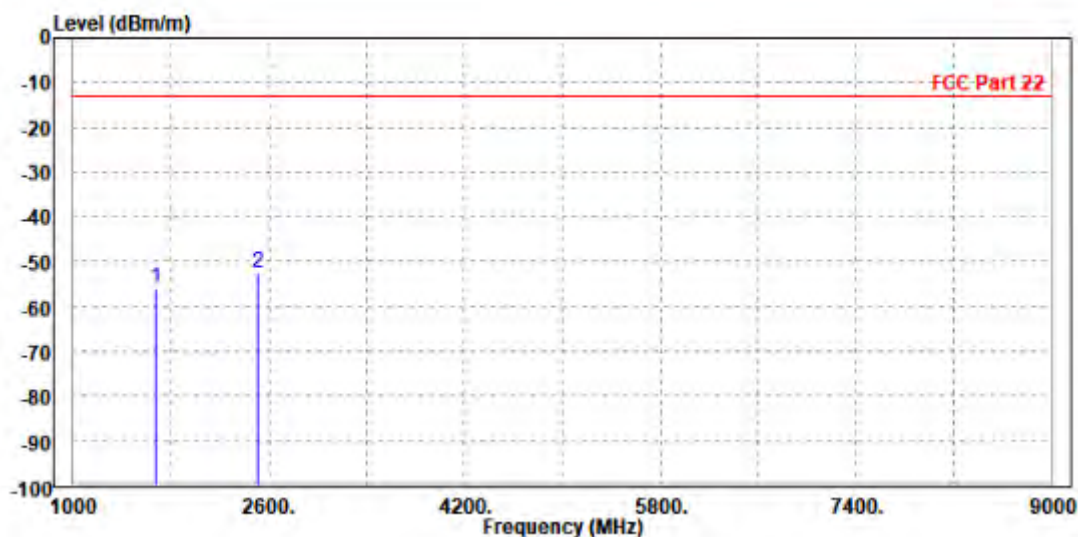
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.000	-55.19	-58.92	-13.00	-42.19	3.73	Peak	Horizontal
2 PP	2504.000	-51.71	-57.83	-13.00	-38.71	6.12	Peak	Horizontal





MODE	TX channel 20525	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	1672.000	-55.74	-59.17	-13.00	-42.74	3.43	Peak	Vertical
2 PP	2508.000	-52.65	-58.48	-13.00	-39.65	5.83	Peak	Vertical

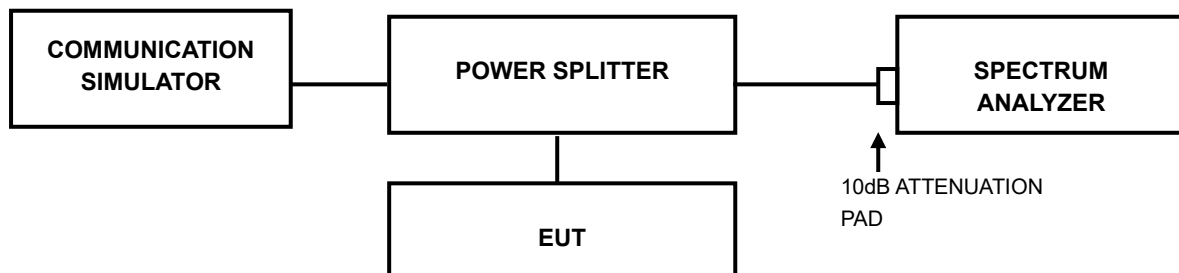


3.7 PEAK TO AVERAGE RATIO

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%.



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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).

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.



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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.



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7 APPENDIX

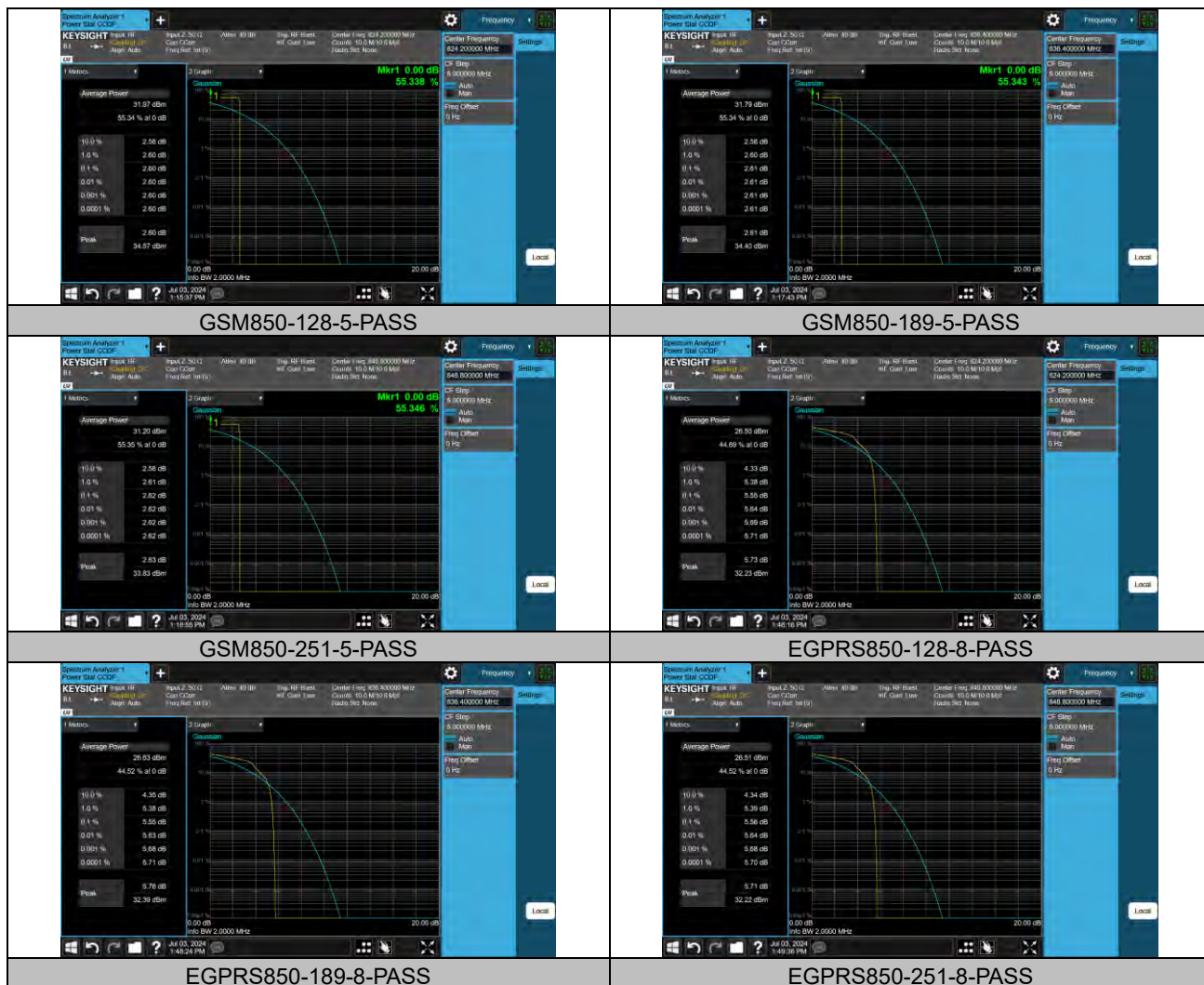
GSM 850

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.60	13	PASS
GSM850	189	2.61	13	PASS
GSM850	251	2.62	13	PASS
EGPRS850	128	5.55	13	PASS
EGPRS850	189	5.55	13	PASS
EGPRS850	251	5.56	13	PASS

Test Graphs



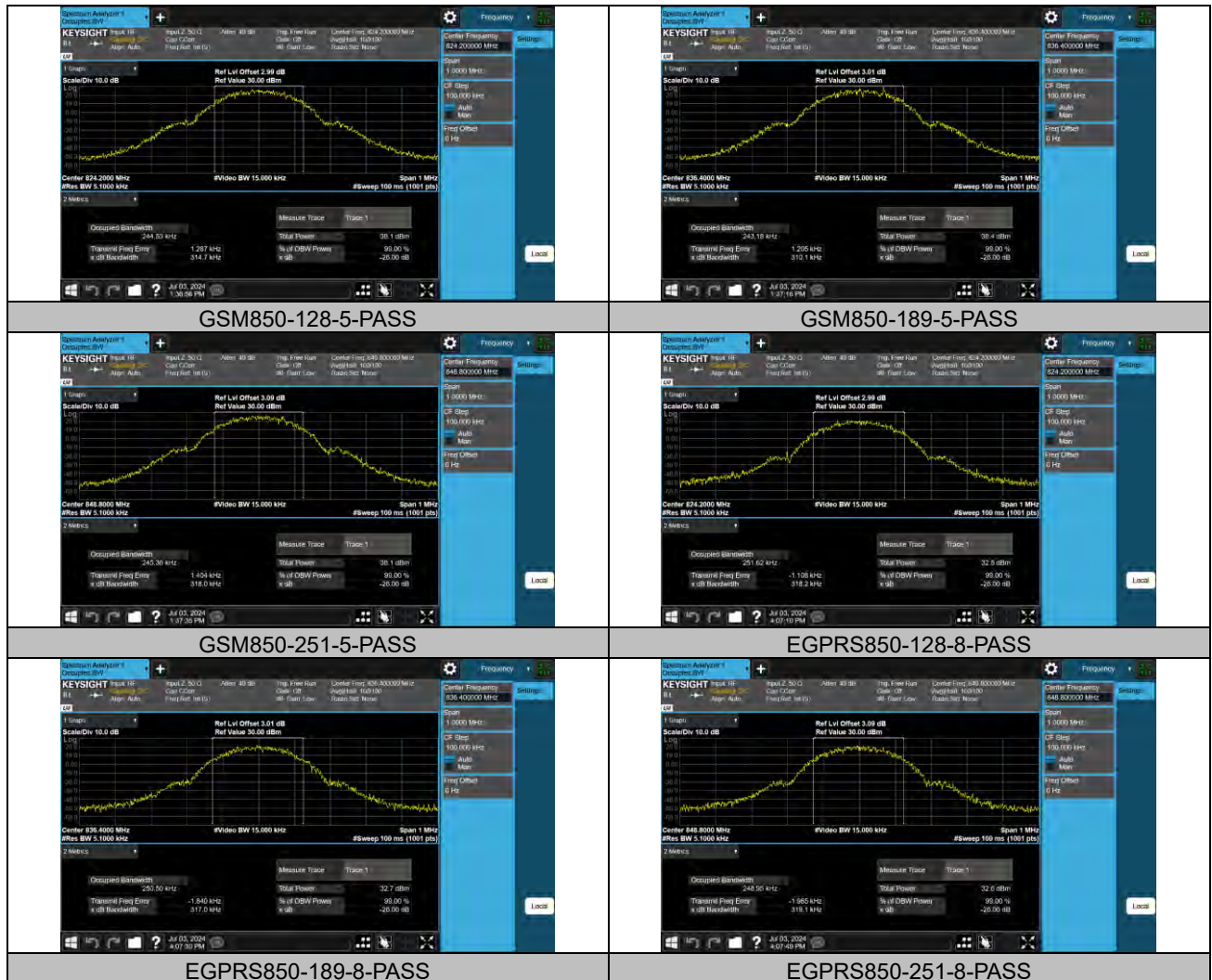


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24453	0.3147	---	PASS
GSM850	189	0.24318	0.3101	---	PASS
GSM850	251	0.24536	0.3180	---	PASS
EGPRS850	128	0.25162	0.3182	---	PASS
EGPRS850	189	0.25050	0.3170	---	PASS
EGPRS850	251	0.24895	0.3191	---	PASS

Test Graphs

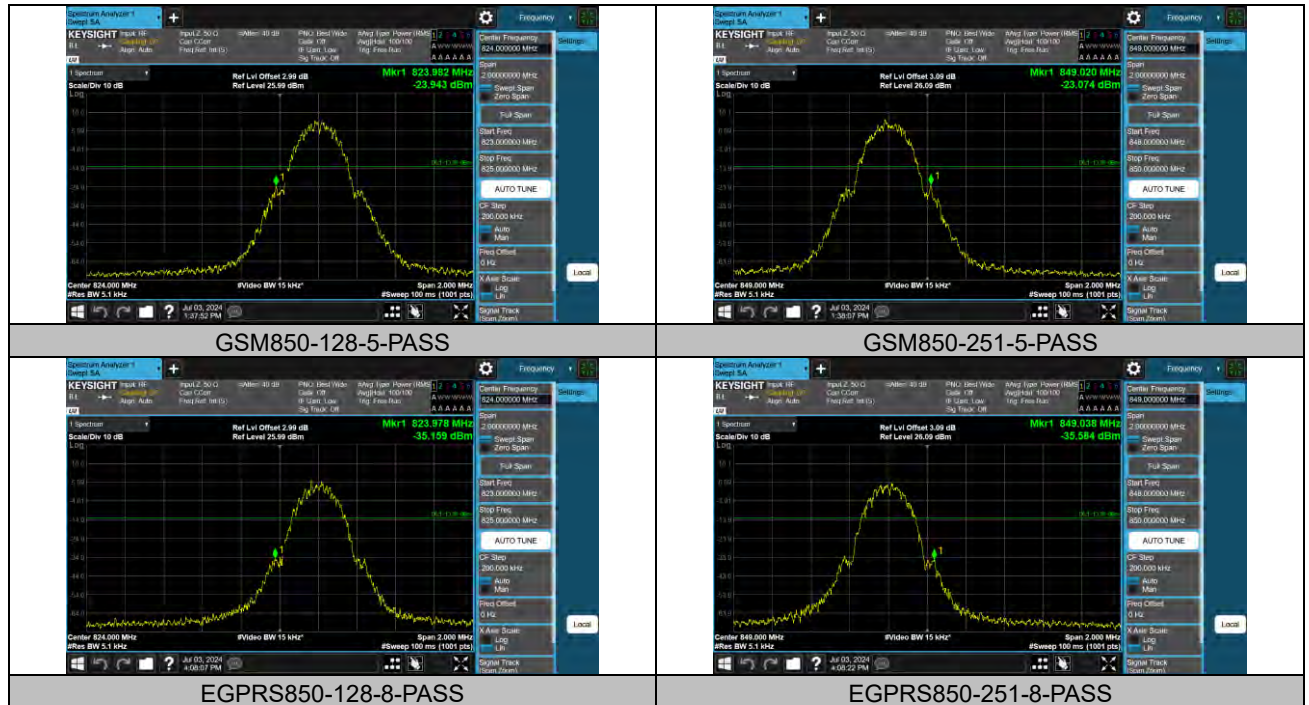


BAND EDGE

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-23.94	-13	PASS
GSM850	251	849.02	-23.07	-13	PASS
EGPRS850	128	823.98	-35.16	-13	PASS
EGPRS850	251	849.04	-35.58	-13	PASS

Test Graphs



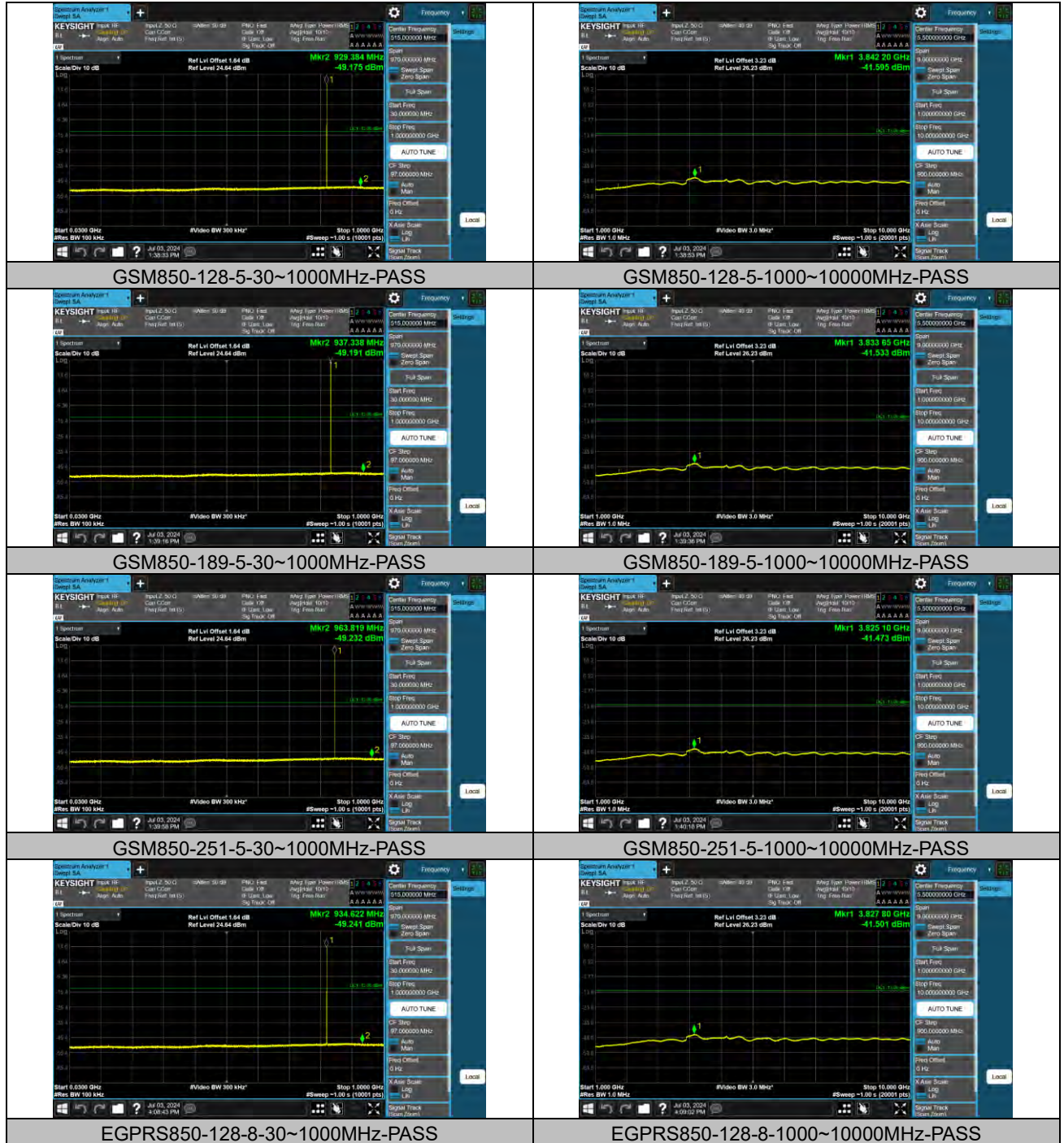


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	929.38	-49.18	-13	PASS
GSM850	128	1000~10000MHz	3842.2	-41.6	-13	PASS
GSM850	189	30~1000MHz	937.34	-49.19	-13	PASS
GSM850	189	1000~10000MHz	3833.65	-41.53	-13	PASS
GSM850	251	30~1000MHz	963.82	-49.23	-13	PASS
GSM850	251	1000~10000MHz	3825.1	-41.47	-13	PASS
EGPRS850	128	30~1000MHz	934.62	-49.24	-13	PASS
EGPRS850	128	1000~10000MHz	3827.8	-41.5	-13	PASS
EGPRS850	189	30~1000MHz	967.12	-49.44	-13	PASS
EGPRS850	189	1000~10000MHz	3873.7	-41.57	-13	PASS
EGPRS850	251	30~1000MHz	958	-49.32	-13	PASS
EGPRS850	251	1000~10000MHz	3868.75	-41.67	-13	PASS

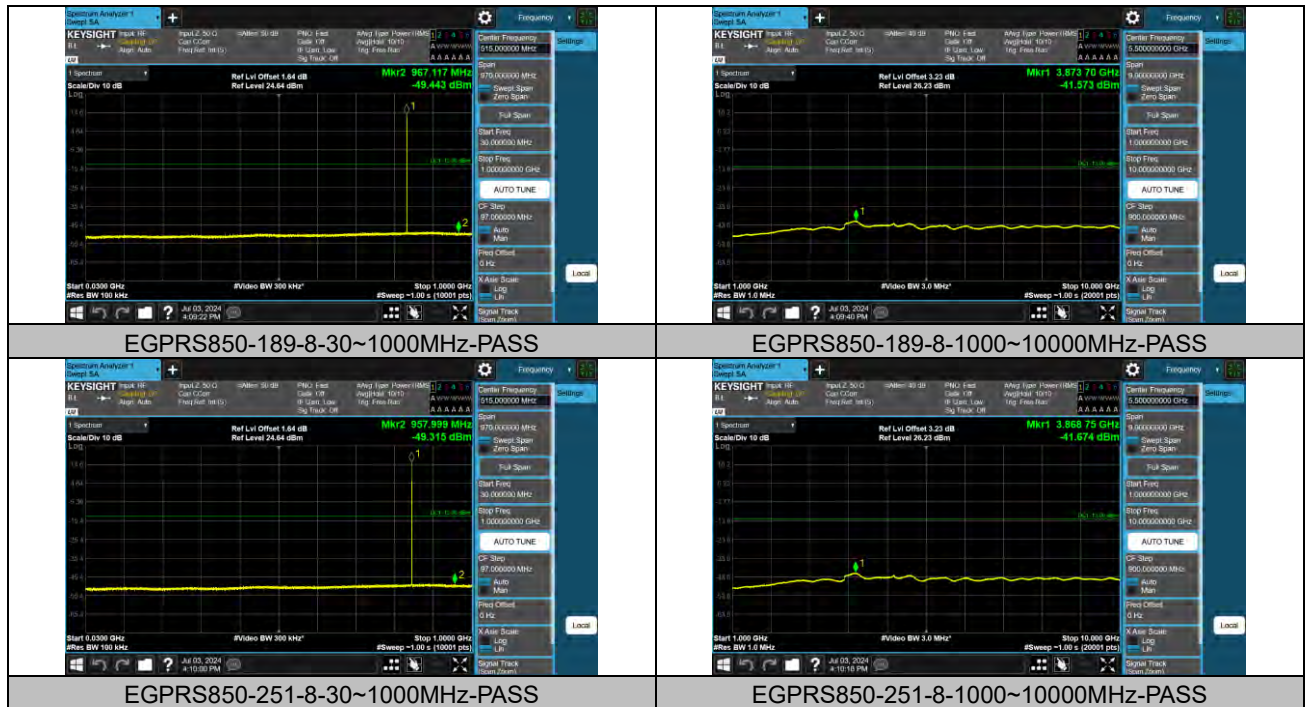
Test Graphs





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Test Report No.: W7L-P24100005RF05



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	-290.00	-0.351856	824.07807	---	824-849	PASS
GSM850	128	VL	NT	-540.00	-0.655181	824.076345	---	824-849	PASS
GSM850	128	VH	NT	-70.00	-0.084931	824.076235	---	824-849	PASS
GSM850	251	VN	NT	790.00	0.930726	---	848.924095	824-849	PASS
GSM850	251	VL	NT	400.00	0.471254	---	848.92243	824-849	PASS
GSM850	251	VH	NT	500.00	0.589067	---	848.92293	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	-340.00	-0.412521	824.076775	---	824-849	PASS
GSM850	128	NV	-20	-640.00	-0.776511	824.076795	---	824-849	PASS
GSM850	128	NV	-10	370.00	0.448920	824.07826	---	824-849	PASS
GSM850	128	NV	0	1190.00	1.443824	824.0793	---	824-849	PASS
GSM850	128	NV	10	-430.00	-0.521718	824.077725	---	824-849	PASS
GSM850	128	NV	20	30.00	0.036399	824.0776	---	824-849	PASS
GSM850	128	NV	30	-400.00	-0.485319	824.07724	---	824-849	PASS
GSM850	128	NV	40	-1030.00	-1.249697	824.076915	---	824-849	PASS
GSM850	128	NV	50	1260.00	1.528755	824.07926	---	824-849	PASS
GSM850	251	NV	-30	1230.00	1.449105	---	848.9244	824-849	PASS
GSM850	251	NV	-20	180.00	0.212064	---	848.922315	824-849	PASS
GSM850	251	NV	-10	140.00	0.164939	---	848.921335	824-849	PASS
GSM850	251	NV	0	-860.00	-1.013195	---	848.920845	824-849	PASS
GSM850	251	NV	10	260.00	0.306315	---	848.922235	824-849	PASS
GSM850	251	NV	20	480.00	0.565504	---	848.92224	824-849	PASS
GSM850	251	NV	30	1210.00	1.425542	---	848.924185	824-849	PASS
GSM850	251	NV	40	730.00	0.860038	---	848.92263	824-849	PASS
GSM850	251	NV	50	1320.00	1.555137	---	848.924535	824-849	PASS

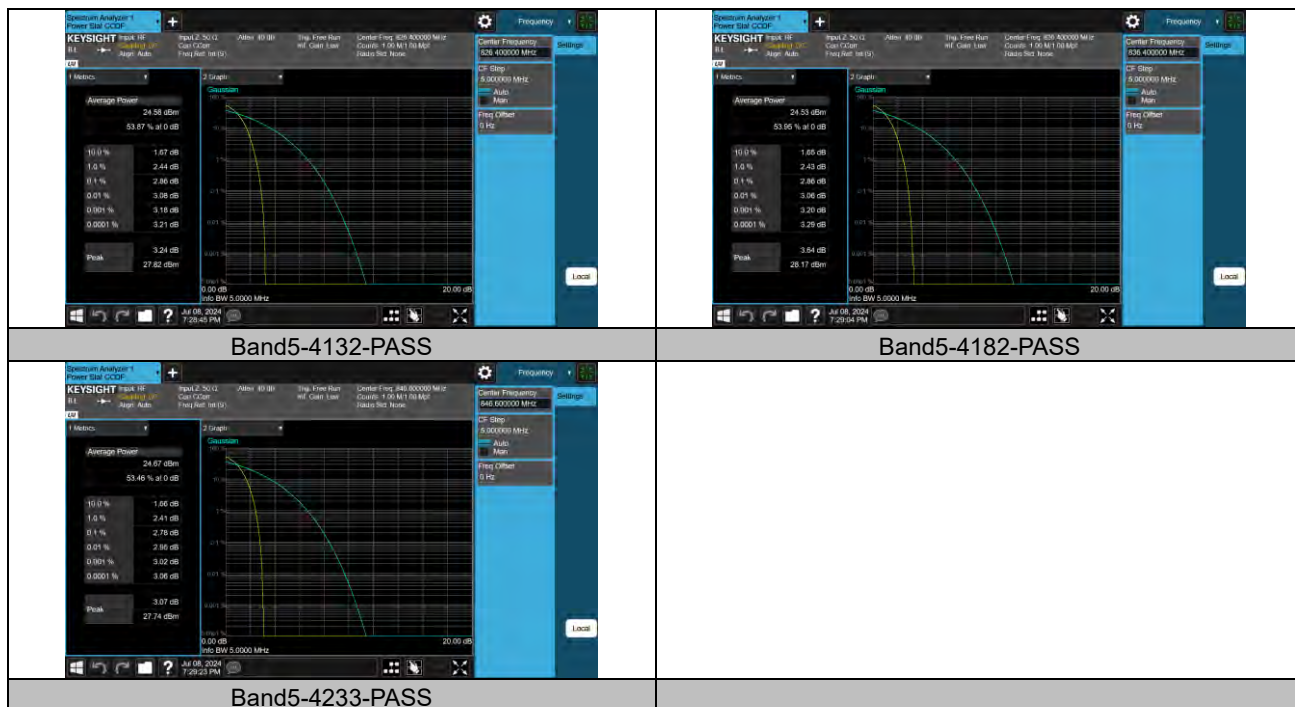
WCDMA BAND 5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.86	13	PASS
Band5	4182	2.86	13	PASS
Band5	4233	2.78	13	PASS

Test Graphs





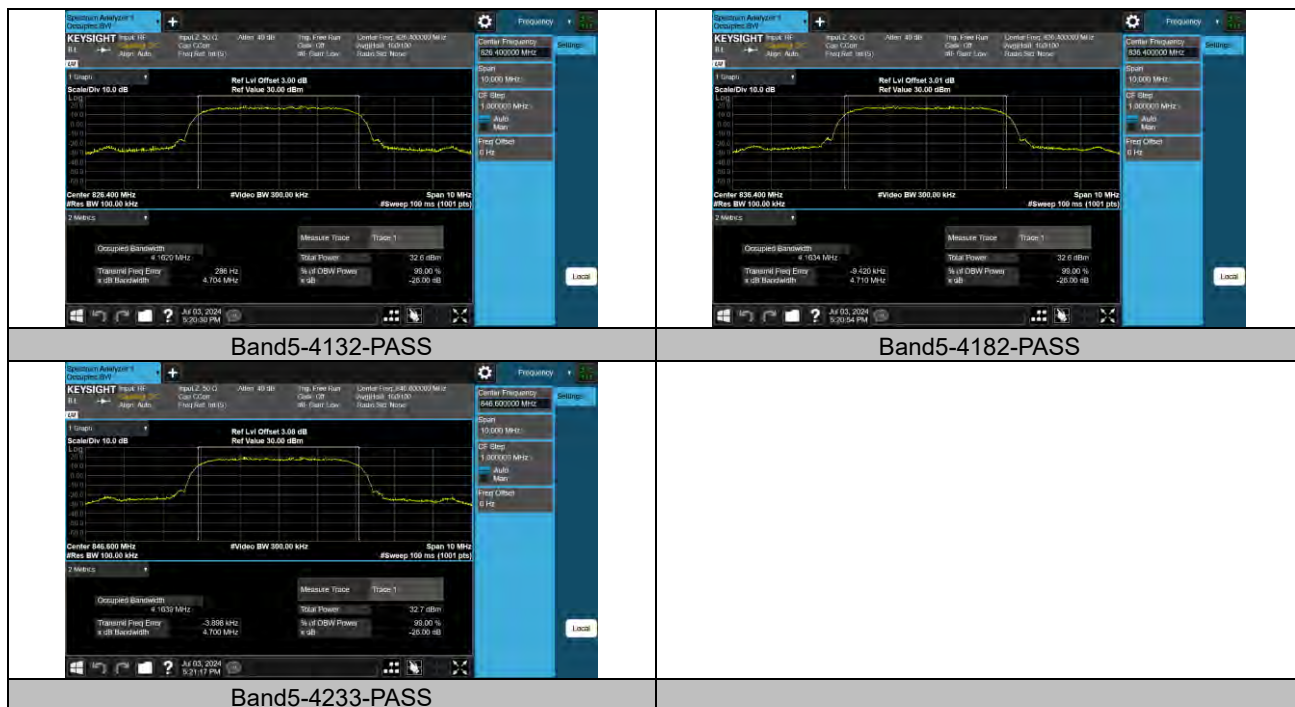
Test Report No.: W7L-P24100005RF05

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1620	4.704	---	PASS
Band5	4182	4.1634	4.710	---	PASS
Band5	4233	4.1639	4.700	---	PASS

Test Graphs





Test Report No.: W7L-P24100005RF05

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.90	-27.72	-13	PASS
Band5	4233	849.00	-28.09	-13	PASS

Test Graphs





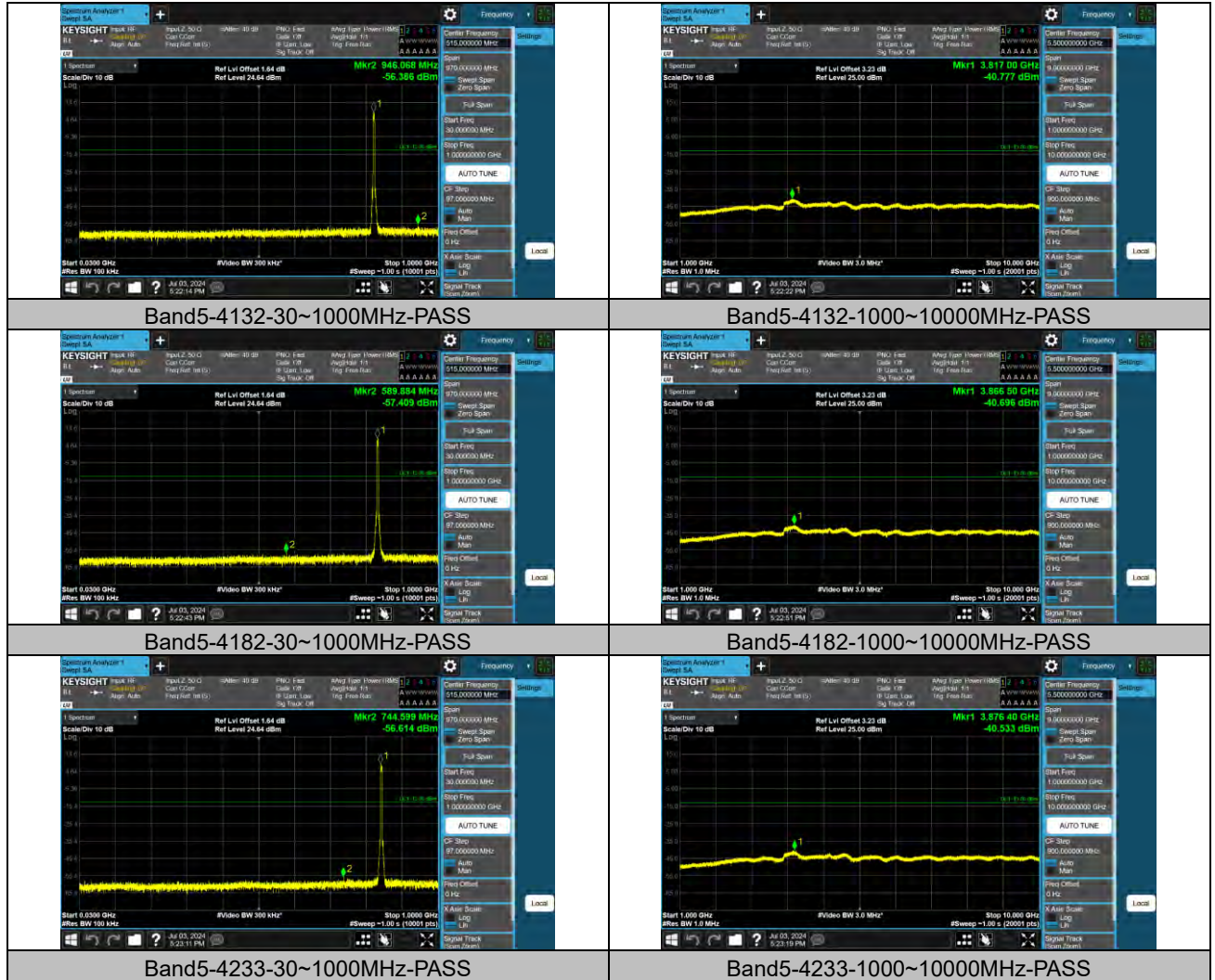
Test Report No.: W7L-P24100005RF05

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	946.07	-56.39	-13	PASS
Band5	4132	1000~10000MHz	3817	-40.78	-13	PASS
Band5	4182	30~1000MHz	589.88	-57.41	-13	PASS
Band5	4182	1000~10000MHz	3866.5	-40.7	-13	PASS
Band5	4233	30~1000MHz	744.6	-56.61	-13	PASS
Band5	4233	1000~10000MHz	3876.4	-40.53	-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	60.00	0.072604	824.32081	---	824-849	PASS
Band5	4132	VL	NT	-1290.00	-1.560987	824.32081	---	824-849	PASS
Band5	4132	VH	NT	-3070.00	-3.714908	824.31848	---	824-849	PASS
Band5	4233	VN	NT	-7610.00	-8.988897	---	848.66959	824-849	PASS
Band5	4233	VL	NT	-4090.00	-4.831089	---	848.67661	824-849	PASS
Band5	4233	VH	NT	-6920.00	-8.173872	---	848.67238	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	-760.00	-0.919652	824.31939	---	824-849	PASS
Band5	4132	NV	-20	130.00	0.157309	824.32143	---	824-849	PASS
Band5	4132	NV	-10	-4310.00	-5.215392	824.31524	---	824-849	PASS
Band5	4132	NV	0	2640.00	3.194579	824.32099	---	824-849	PASS
Band5	4132	NV	10	2500.00	3.025169	824.31875	---	824-849	PASS
Band5	4132	NV	20	-810.00	-0.980155	824.31994	---	824-849	PASS
Band5	4132	NV	30	-2000.00	-2.420136	824.31915	---	824-849	PASS
Band5	4132	NV	40	-2670.00	-3.230881	824.31808	---	824-849	PASS
Band5	4132	NV	50	-860.00	-1.040658	824.31949	---	824-849	PASS
Band5	4233	NV	-30	-4080.00	-4.819277	---	848.67552	824-849	PASS
Band5	4233	NV	-20	-2650.00	-3.130168	---	848.67925	824-849	PASS
Band5	4233	NV	-10	1930.00	2.279707	---	848.68483	824-849	PASS
Band5	4233	NV	0	-4730.00	-5.587054	---	848.67427	824-849	PASS
Band5	4233	NV	10	-2660.00	-3.141980	---	848.67824	824-849	PASS
Band5	4233	NV	20	-7260.00	-8.575478	---	848.67009	824-849	PASS
Band5	4233	NV	30	-4530.00	-5.350815	---	848.67397	824-849	PASS
Band5	4233	NV	40	-2920.00	-3.449090	---	848.67788	824-849	PASS
Band5	4233	NV	50	-5260.00	-6.213088	---	848.67684	824-849	PASS



Test Report No.: W7L-P24100005RF05

LTE BAND 5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

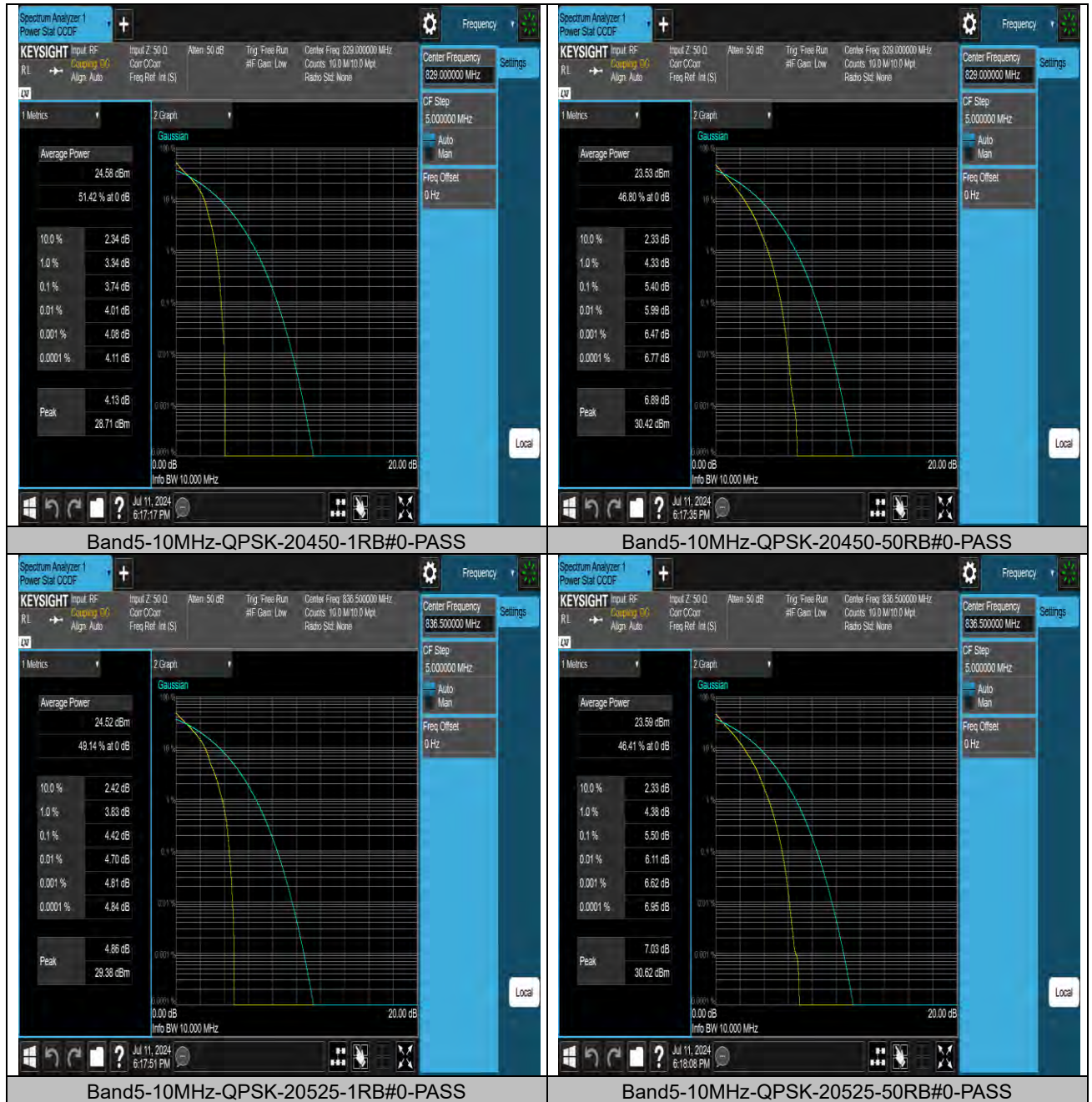
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	3.74	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.40	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.42	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.50	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.92	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.19	13	PASS



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VERITAS

Test Report No.: W7L-P24100005RF05

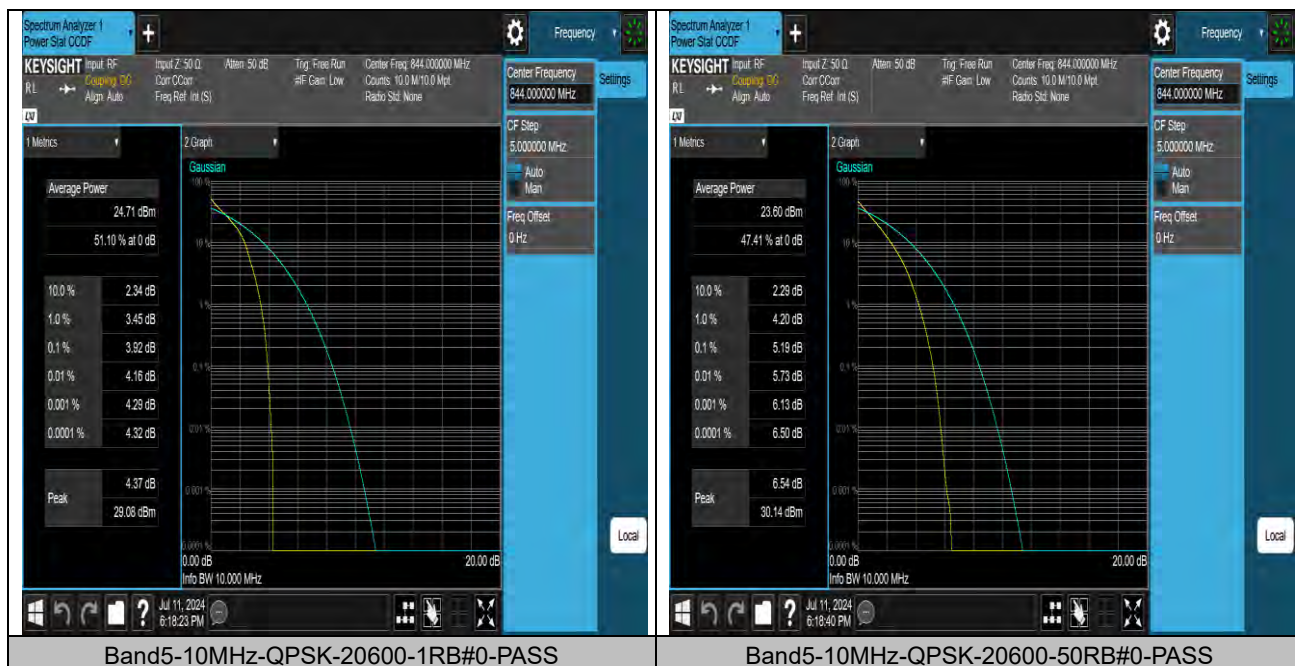
Test Graphs





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VERITAS

Test Report No.: W7L-P24100005RF05

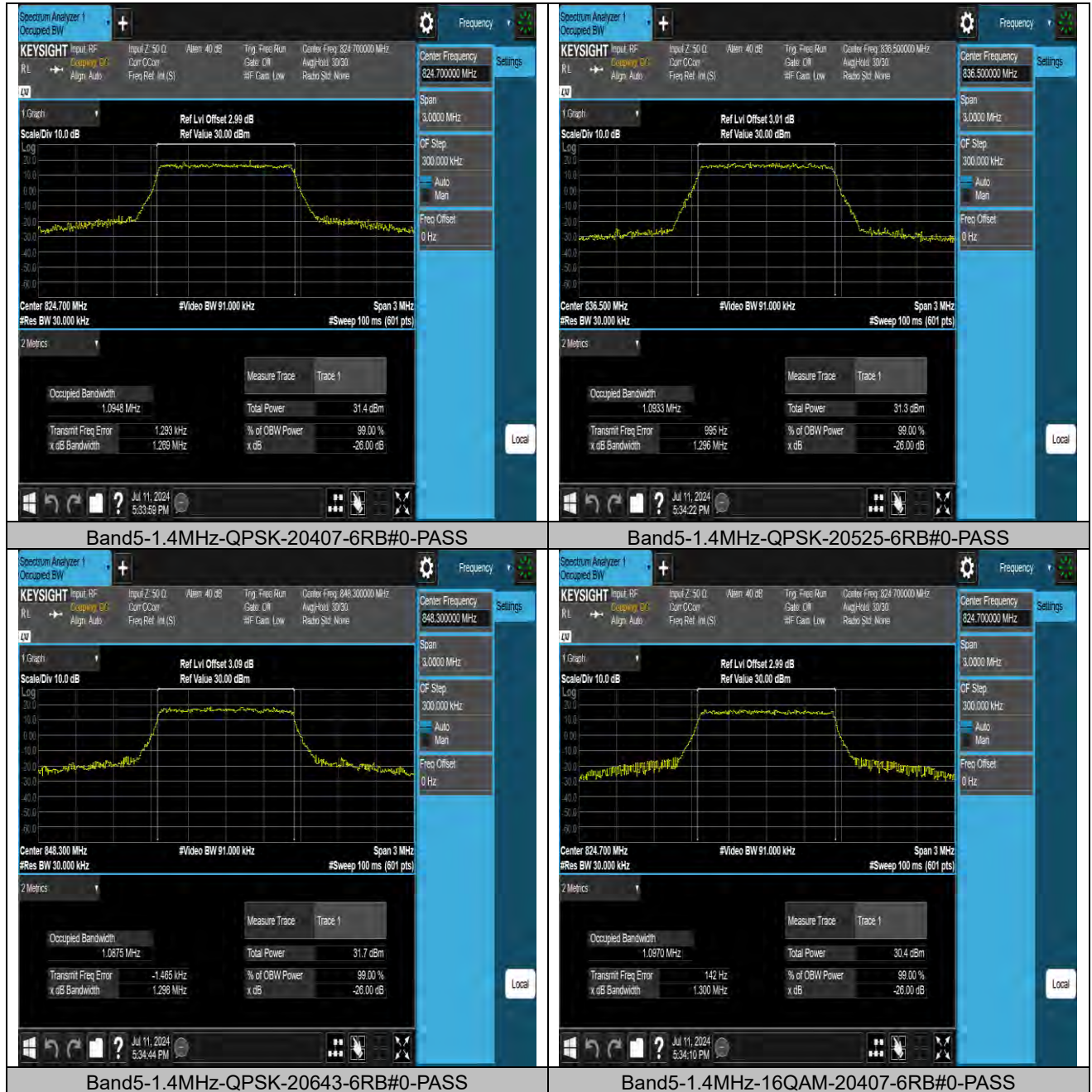


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0948	1.269	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0933	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0875	1.298	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0970	1.300	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0871	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0961	1.299	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6831	2.911	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6887	2.891	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6846	2.887	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6857	2.900	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6824	2.914	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6837	2.904	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4993	4.955	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4933	4.917	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4916	4.948	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5014	4.963	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4887	4.937	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4881	5.134	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9709	9.829	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9986	9.793	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0013	9.817	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9801	9.749	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9959	9.790	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9725	9.748	PASS

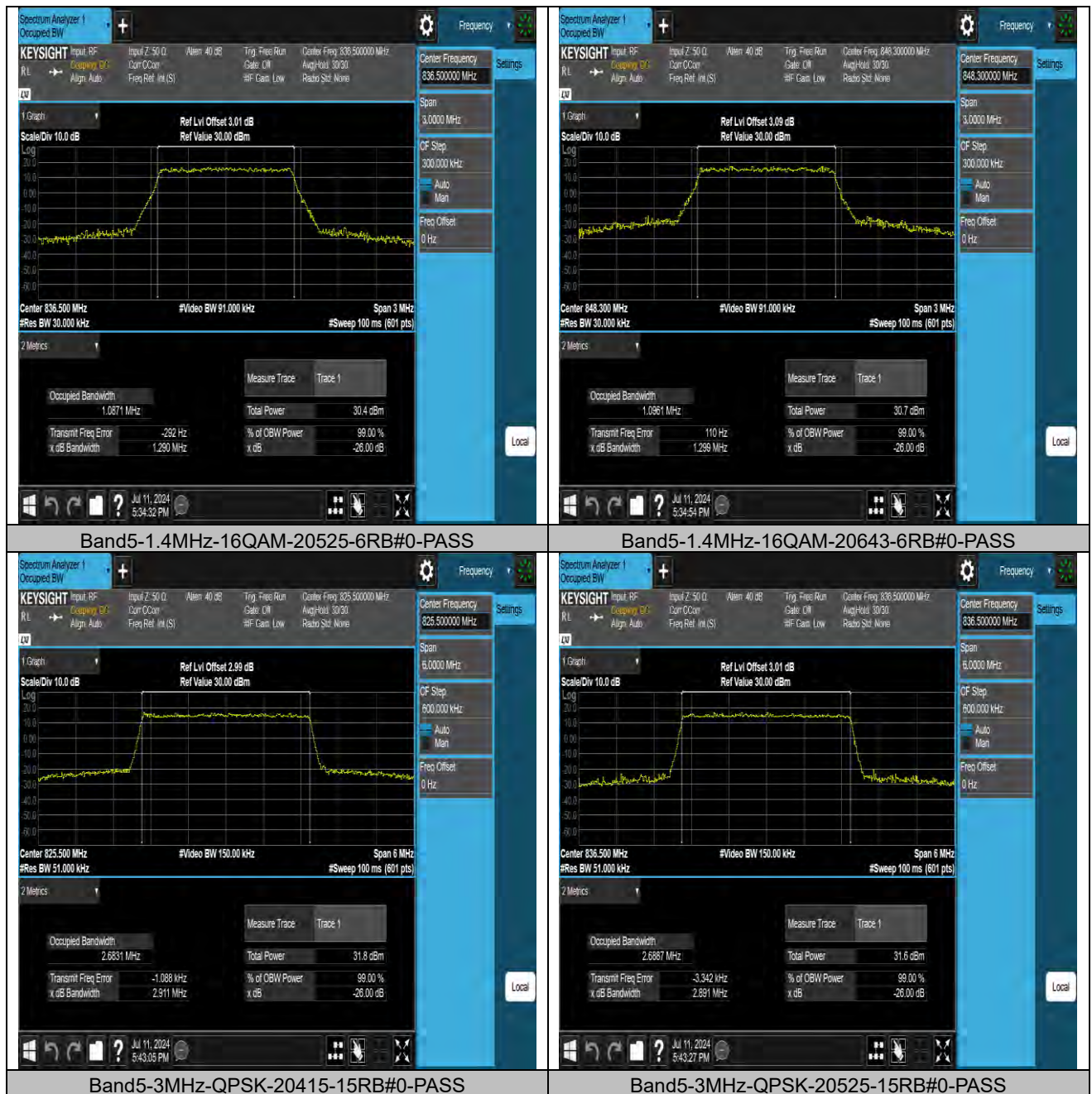
Test Graphs





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VERITAS

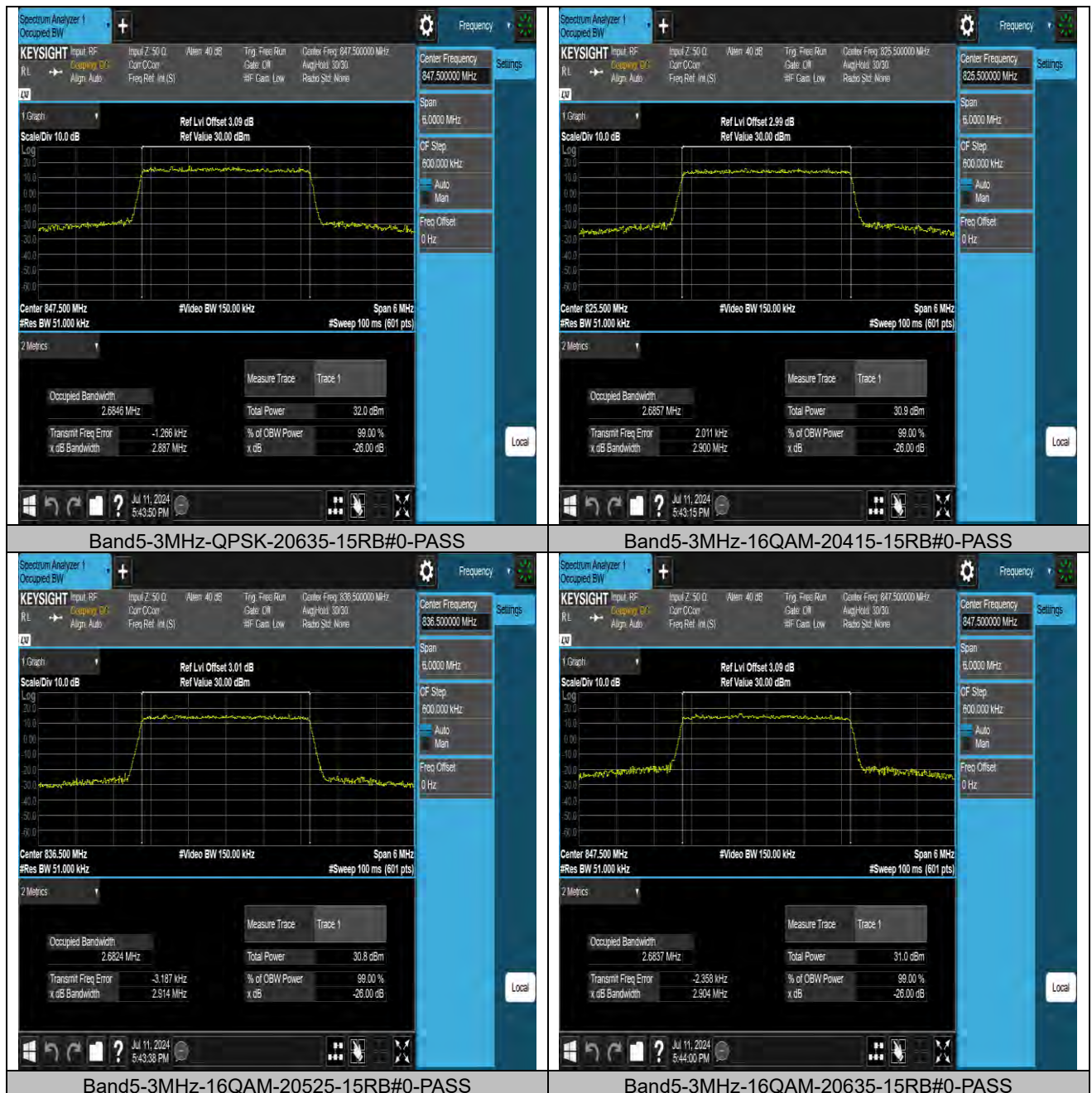
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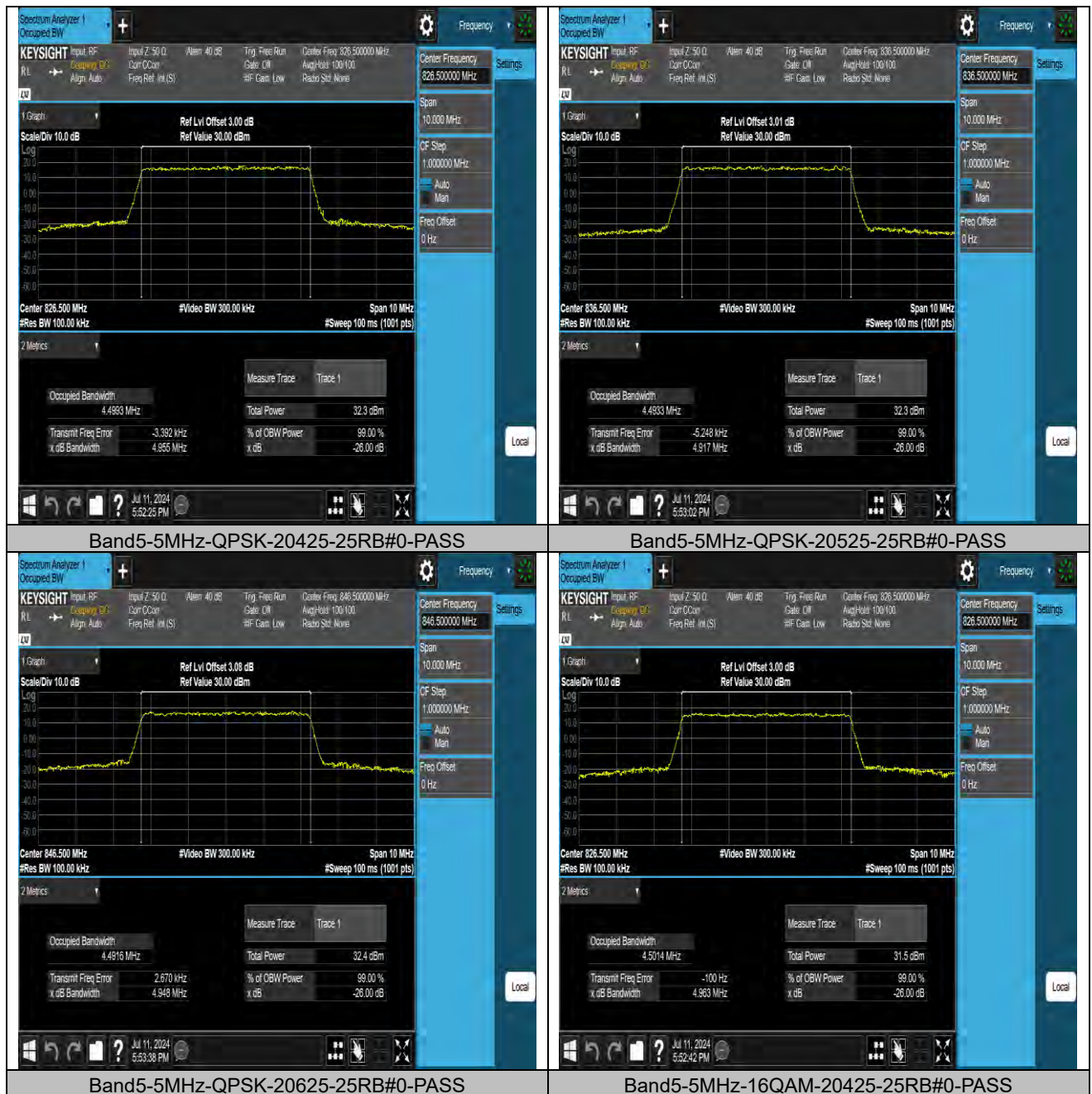
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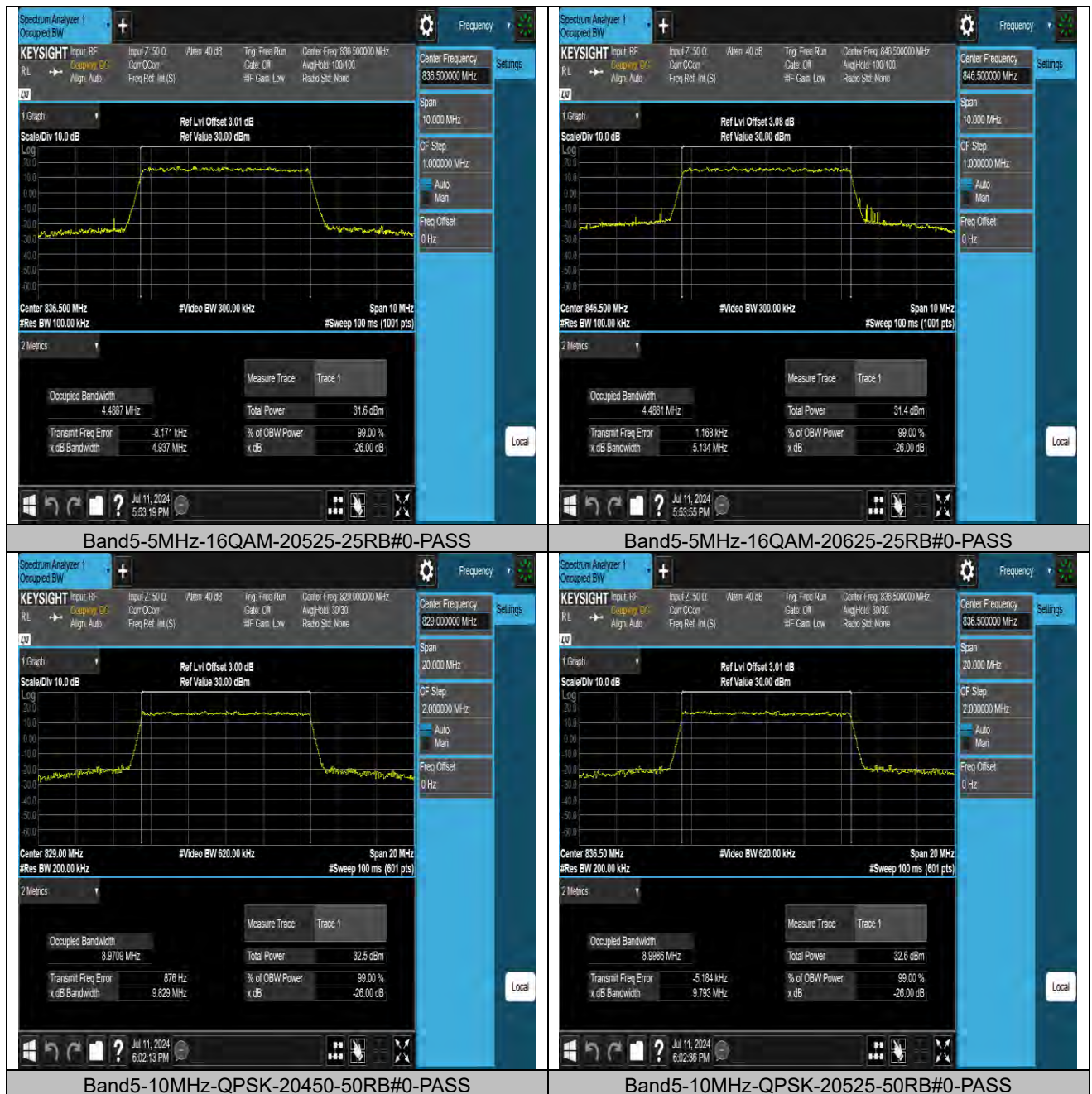
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