

TEST REPORT

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Product Name: POS TERMINAL

FCC ID: XDQN62-01

Standard(s): 47 CFR Part 2, 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27
ANSI C63.26-2015

Report Number: 2402W89350E-RF-00FA1

Report Date: 2024/10/8

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	DG1240227-09527E-RF-00F	Original Report	2024/4/7
2.0	2402W89350E-RF-00FA1	Class II Permissive Change Report	2024/10/8

Note: This is Class II permissive change application which was based on the original report. The differences between them as following:

- 1. Add an antenna(WWAN/Bluetooth/Wifi/GPS).
- 2. Changed the appearance of the product screen printing.

The change between the previous equipment and the current equipment is stated and guaranteed by the applicant. According to the difference, RF Conducted power and Radiated spurious emission were tested, test photos and EUT photos was updated.

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	POS TERMINAL
EUT Model:	N62
Operation Bands and modes:	GPRS/EDGE: 850/1900 WCDMA: Band 2/5 LTE: Band 2/4/5/7
Modulation Type:	GMSK, 8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 3.8V from battery or DC 5.0V from adapter or DC 5.0V from Base
Serial Number:	RE/CE: 2PN1-1 RF Conducted: 2PN1-2
EUT Received Date:	2024/8/9
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter 1#	Jiangxi Jian Aohai Technology Co.,Ltd.	A319-050200U-US2	Input: 100-240Vac~50-60Hz 0.3A MAX Output: 5.0Vdc 2000mA
Adapter 2#	RUIJING	RJ49-W050100US	Input: 100-240Vac~50-60Hz 250mA Output: 5.0Vdc 1000mA
Adapter 3#	Dongguan Aohai Technology Co.,Ltd.	A806A-050100U-EU1	Input: 100-240Vac~50-60Hz 0.2A Output: 5.0Vdc 1.0A 5.0W
Adapter 4#	RUIJING	RJ49-W050100EU	Input: 100-240Vac~50-60Hz 250mA Output: 5.0Vdc 1A 5.0W
Adapter 5#	SHENZHEN HONOR ELECTRONIC CO.,LTD.	ADS-6MA-06 05050EPG	Input: 100-240Vac~50-60Hz 0.3A MAX Output: 5.0Vdc 1.0A 5.0W

1.3 Operation Voltage(VDC) ▲:

Lowest:	3.5	Normal:	3.8	Highest:	4.35
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1.4 Transmission Antenna Information ▲

Manufacturer	Antenna	Antenna Type	Operation Bands	Antenna Frequency Range(MHz)	Antenna Gain (G _T)(dBi)	L _c (dB)
Sunny Way Technology(China) Co., Ltd.	Main	FPC	GSM850	824-849	-4.15	0.1
			PCS1900	1850-1910	-1.46	0.2
			WCDMA B2	1850-1910	-1.46	0.2
			WCDMA B5	824-849	-4.15	0.1
			LTE B2	1850-1910	-1.46	0.2
			LTE B4	1710-1755	-2.22	0.2
			LTE B5	824-849	-4.15	0.1
			LTE B7	2500-2570	0.62	0.3
Note: L _c = Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.						

1.5 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§2.1046; § 22.913; § 24.232; §27.50	RF Output Power	Reporting
FCC§ 2.1047	Modulation Characteristics	Not Applicable
FCC§ 2.1049; § 22.905 § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliant*
FCC§ 2.1051, § 22.917; § 24.238; §27.53	Spurious Emissions at Antenna Terminal	Compliant*
FCC§ 22.917; § 24.238; §27.53	Out of band emission, Band Edge	Compliant*
FCC§ 2.1055 § 22.355; § 24.235; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant*
FCC§ 2.1053 § 22.917; § 24.238; §27.53	Radiated Spurious Emission	Compliant
Note 1: Per DG1240227-09527E-RF-00F report, Powered by Adapter 1# was the worst for Radiated Spurious Emissions.		
Compliant*: The test data please refer to the original report DG1240227-09527E-RF-00F.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode.
Equipment Modifications:	No
EUT Exercise Software:	No
The maximum power was configured per 3GPP Standard for each operation modes as below setting:	
GPRS/EGPRS	
Function: Menu select > GSM Mobile Station > GSM 850/1900	
Press Connection control to choose the different menus	
Press RESET > choose all the reset all settings	
Connection Press Signal Off to turn off the signal and change settings	
Network Support > GSM + GPRS or GSM + EGSM	
Main Service > Packet Data	
Service selection > Test Mode A – Auto Slot Config. off	
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting	
> Slot configuration > Uplink/Gamma	
> 33 dBm for GPRS 850	
> 30 dBm for GPRS 1900	
> 27 dBm for EGPRS 850	
> 26 dBm for EGPRS 1900	
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel	
Frequency Offset > + 0 Hz	
Mode > BCCH and TCH	
BCCH Level > -85 dBm (May need to adjust if link is not stable)	
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]	
Channel Type > Off	
P0 > 4 dB	
Slot Config > Unchanged (if already set under MS signal)	
TCH > choose desired test channel	
Hopping > Off	
Main Timeslot > 3	
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)	
Bit Stream > 2E9-1 PSR Bit Stream	
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input	
Connection Press Signal on to turn on the signal and change settings	

WCDMA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2		4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	1 / 5	0
	β_{ec}	20 /225	12/15	30 15	2/15	5/15
	β_c / β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30 15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	PR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs} = \beta_{hs} / \beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCH	6		8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate k ps	242.1	174.9	482.8	205.8	308.9
	Reference E_F 1	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

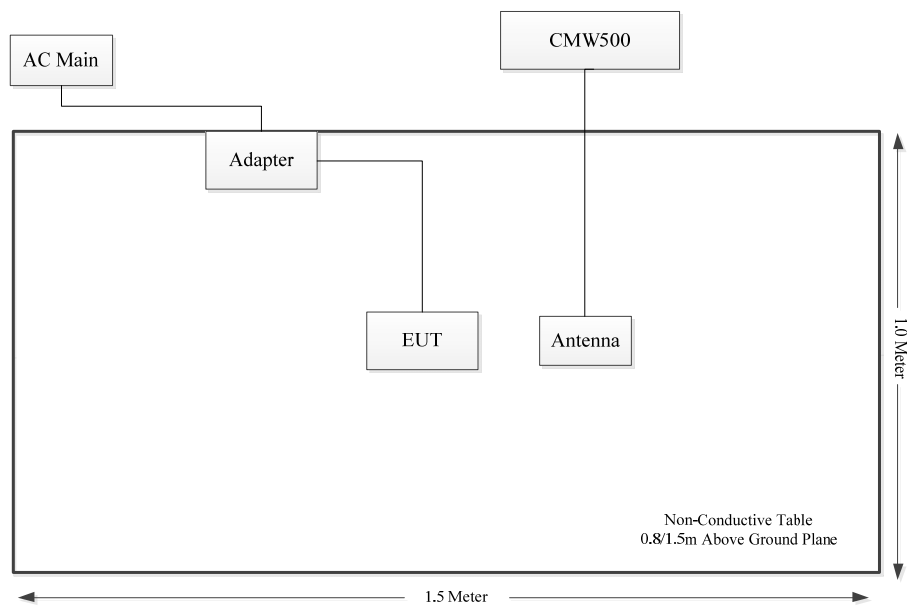
3.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	149216
Unknown	Antenna	Unknown	Unknown

3.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	no	no	0.8	Adapter	EUT

3.4 Block Diagram of Test Setup



3.5 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.6 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
RF Frequency	±0.082×10 ⁻⁶

4. REQUIREMENTS AND TEST PROCEDURES

4.1.1 Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

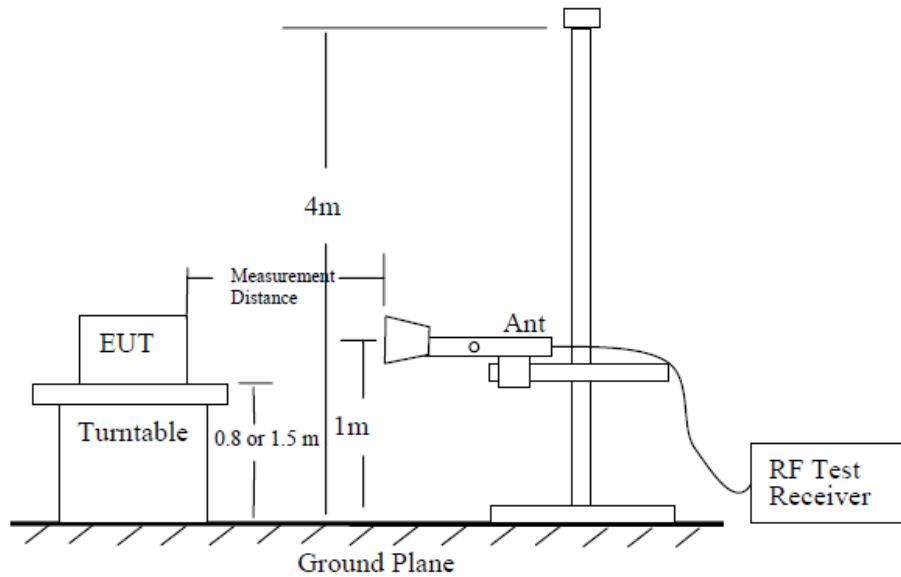


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

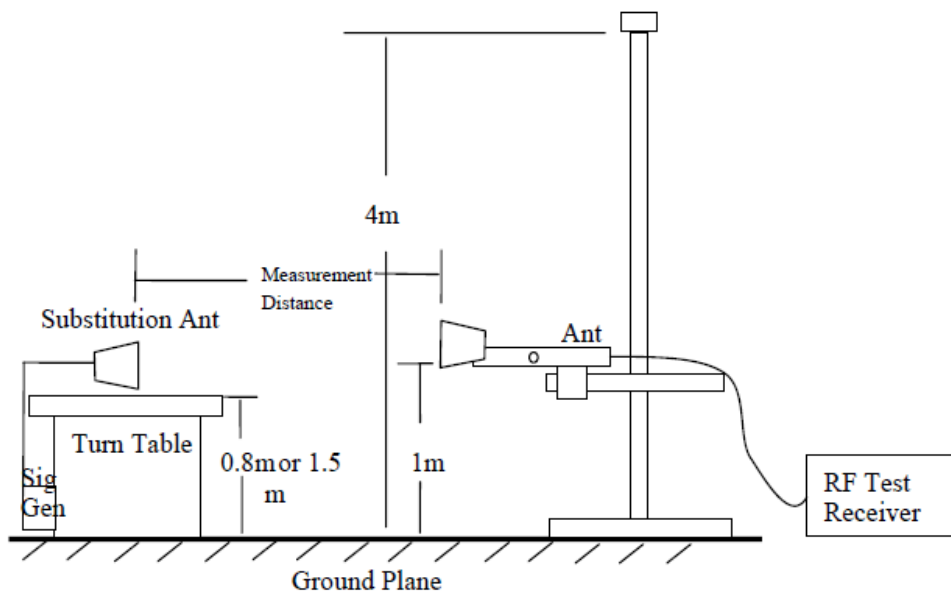


Figure 7—Substitution method set-up for radiated emission

Test Procedure:

- a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.
- b) Each emission under consideration shall be evaluated:
 - 1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - 2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - 5) Record the measured emission amplitude level and frequency using the appropriate RBW.
- c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- d) Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- e) Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- f) Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- g) For each emission that was detected and measured in the initial test [i.e., in step b) and step c)]:
 - 1) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - 2) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step b) and step c).
 - 3) Record the output power level of the signal generator when equivalence is achieved in step 2).
- h) Repeat step e) through step g) with the measurement antenna oriented in the opposite polarization.
- i) Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
 where

P_e = equivalent emission power in dBm
 P_s = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
- j) Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: $\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}$. If necessary, the antenna gain can be calculated from calibrated antenna factor information
- k) Provide the complete measurement results as a part of the test report.

5. Test DATA AND RESULTS

5.1 Spot Check With Maximum Conducted Output Power

GSM850:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GPRS	824.2	836.6	848.8
EDGE	824.2	836.6	848.8

Test Data:

RF Output Power

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GPRS 1 Slot	32.53	31.1	30.98	26.13	38.45
GPRS 2 Slots	31.41	29.93	29.7	25.01	38.45
GPRS 3 Slots	29.69	27.9	27.95	23.29	38.45
GPRS 4 Slots	27.56	26.07	26.11	21.16	38.45
EDGE 1 Slot	30.58	30.17	30.43	24.18	38.45
EDGE 2 Slots	29.47	29.11	29.55	23.15	38.45
EDGE 3 Slots	27.45	27.16	27.69	21.29	38.45
EDGE 4 Slots	25.47	25.29	25.5	19.1	38.45

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

Result: Pass

PCS1900:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GPRS	1850.2	1880	1909.8
EDGE	1850.2	1880	1909.8

Test Data:**RF Output Power**

Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GPRS 1 Slot	28.75	29.71	29.19	28.05	33
GPRS 2 Slots	27.67	28.58	28.15	26.92	33
GPRS 3 Slots	25.27	26.48	26.1	24.82	33
GPRS 4 Slots	23.2	24.54	24.13	22.88	33
EDGE 1 Slot	25.36	26.19	26	24.53	33
EDGE 2 Slots	24.12	25.23	24.67	23.57	33
EDGE 3 Slots	22.13	23.03	22.58	21.37	33
EDGE 4 Slots	20.11	21.19	20.71	19.53	33

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Result:**Pass**

WCDMA Band2:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	1852.4	1880	1907.6

Test Data:**RF Output Power:**

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.09	22.44	22.92	21.26	33
HSDPA Subtest 1	19.9	20.05	19.87	18.39	33
HSDPA Subtest 2	19.93	19.84	19.99	18.33	33
HSDPA Subtest 3	19.52	19.95	20.18	18.52	33
HSDPA Subtest 4	19.48	20	19.98	18.34	33
HSUPA Subtest 1	19.45	19.63	19.65	17.99	33
HSUPA Subtest 2	19.42	20.03	20.14	18.48	33
HSUPA Subtest 3	19.3	19.96	19.59	18.3	33
HSUPA Subtest 4	19.04	19.45	19.73	18.07	33
HSUPA Subtest 5	19.04	19.05	19.18	17.52	33
HSPA+ Subtest 1	19.72	19.84	19.97	18.31	33

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:**Pass**

WCDMA Band5:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	826.4	836.6	846.6

Test Data:**RF Output Power:**

Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	23.02	23.03	23.17	16.77	38.45
HSDPA Subtest 1	20.84	20.36	20.49	14.44	38.45
HSDPA Subtest 2	20.65	20.89	21.25	14.85	38.45
HSDPA Subtest 3	20.47	21.02	20.85	14.62	38.45
HSDPA Subtest 4	20.38	20.44	20.52	14.12	38.45
HSUPA Subtest 1	20.51	20.47	20.44	14.11	38.45
HSUPA Subtest 2	20.07	20.46	20.29	14.06	38.45
HSUPA Subtest 3	20.04	20.27	20.71	14.31	38.45
HSUPA Subtest 4	19.94	20.2	20.13	13.8	38.45
HSUPA Subtest 5	19.95	20.13	19.94	13.73	38.45
HSPA+ Subtest 1	21.08	20.92	20.84	14.68	38.45

Note:

ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)

GT(dBd)=GT(dBi)-2.15

Result:**Pass**

LTE Band 2:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
20MHz	1860	1880	1900

Test Data:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
20MHz QPSK	RB1#0	21.58	22.55	22.96	21.81	33
	RB1#50	22.67	23.44	23.47		
	RB1#99	22.61	23.03	22.6		
	RB50#0	21.08	22.28	22.3		
	RB50#50	21.48	22.08	22.25		
	RB100#0	21.53	22.16	22.03		
20MHz 16QAM	RB1#0	21.01	22.26	22.5	21.35	33
	RB1#50	21.74	23.01	22.95		
	RB1#99	21.96	22.64	22.11		
	RB50#0	20.39	21.17	21.19		
	RB50#50	20.53	21.31	20.91		
	RB100#0	20.63	21.18	21.28		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:**Pass**

LTE Band 4:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
20MHz	1720	1732.5	1745

Test Data:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
20MHz QPSK	RB1#0	21.12	21.15	21.23	19.39	30
	RB1#50	21.7	21.81	21.74		
	RB1#99	21.1	21.54	21.32		
	RB50#0	20.59	20.7	20.71		
	RB50#50	20.43	20.49	20.7		
	RB100#0	20.31	20.51	20.67		
20MHz 16QAM	RB1#0	20.6	20.35	20.31	18.72	30
	RB1#50	21.14	21.1	20.93		
	RB1#99	20.91	20.58	20.44		
	RB50#0	19.48	19.77	19.68		
	RB50#50	19.74	19.46	19.48		
	RB100#0	19.51	19.66	19.63		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:**Pass**

LTE Band 5:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
10MHz	829	836.5	844

Test Data:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
10MHz QPSK	RB1#0	22.97	22.9	23.01	16.72	38.45
	RB1#25	23.12	22.89	23.1		
	RB1#49	23.12	22.98	22.84		
	RB25#0	22.28	22.07	22.24		
	RB25#25	21.96	21.99	21.95		
	RB50#0	22.02	22.18	22.1		
10MHz 16QAM	RB1#0	21.97	22.44	21.94	16.35	38.45
	RB1#25	22.1	22.75	22.35		
	RB1#49	21.95	22.58	22.05		
	RB25#0	21.32	20.97	20.95		
	RB25#25	21.23	21.1	21.14		
	RB50#0	21.06	20.94	20.86		

Note:

ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)

GT(dBd)=GT(dBi)-2.15

Result:**Pass**

LTE Band 7:

Serial Number:	2PN1-2	Test Date:	2024/10/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
20MHz	2510	2535	2560

Test Data:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
20MHz QPSK	RB1#0	21.75	21.54	21.66	22.37	33
	RB1#50	21.93	22.05	22.01		
	RB1#99	21.85	21.71	22		
	RB50#0	21.12	20.98	21.08		
	RB50#50	21.21	20.66	20.85		
	RB100#0	21.12	20.76	21		
20MHz 16QAM	RB1#0	21.2	21.19	20.86	22.02	33
	RB1#50	21.7	21.41	21.26		
	RB1#99	21.28	20.97	20.77		
	RB50#0	19.7	19.99	19.41		
	RB50#50	19.74	19.91	19.64		
	RB100#0	19.71	19.96	19.86		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:**Pass**

Note:

The Spot Check data were similar to the original data, so this report can reuse data.

5.2 Antenna Port Test Data and Results

Test Data:

Per-spot check, the conducted output power is consistent with the original report, so the EIRP/ERP was re-calculated.

GSM 850 Band:

RF Output Power

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GPRS 1 Slot	32.94	31.49	31.31	26.54	38.45
GPRS 2 Slots	31.9	30.33	30.16	25.5	38.45
GPRS 3 Slots	29.82	28.28	28.25	23.42	38.45
GPRS 4 Slots	27.92	26.33	26.33	21.52	38.45
EDGE 1 Slot	30.98	30.58	30.75	24.58	38.45
EDGE 2 Slots	29.78	29.44	29.75	23.38	38.45
EDGE 3 Slots	27.76	27.41	27.82	21.42	38.45
EDGE 4 Slots	25.73	25.4	25.91	19.51	38.45

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBi)

G_T(dBi)=G_T(dBd)-2.15

Result:

Pass

GSM 1900 Band:

RF Output Power

Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GPRS 1 Slot	28.91	29.96	29.6	28.3	33
GPRS 2 Slots	27.8	28.86	28.53	27.2	33
GPRS 3 Slots	25.76	26.85	26.49	25.19	33
GPRS 4 Slots	23.66	24.76	24.57	23.1	33
EDGE 1 Slot	25.49	26.52	26.29	24.86	33
EDGE 2 Slots	24.36	25.44	25.01	23.78	33
EDGE 3 Slots	22.34	23.48	23.07	21.82	33
EDGE 4 Slots	20.26	21.56	21	19.9	33

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:

Pass

WCDMA Band 2:**RF Output Power:**

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.43	22.93	23.38	21.72	33
HSDPA Subtest 1	20.16	20.38	20.11	18.72	33
HSDPA Subtest 2	20.07	20.24	20.42	18.76	33
HSDPA Subtest 3	20.01	20.22	20.42	18.76	33
HSDPA Subtest 4	19.82	20.26	20.12	18.6	33
HSUPA Subtest 1	19.87	19.85	19.83	18.21	33
HSUPA Subtest 2	19.75	20.25	20.34	18.68	33
HSUPA Subtest 3	19.62	20.07	19.75	18.41	33
HSUPA Subtest 4	19.54	19.79	20.02	18.36	33
HSUPA Subtest 5	19.35	19.54	19.68	18.02	33
HSPA+ Subtest 1	20.1	20.27	20.16	18.61	33

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)**Result:****Pass****WCDMA Band 5:****RF Output Power:**

Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	23.42	23.41	23.39	17.02	38.45
HSDPA Subtest 1	21.04	20.86	20.79	14.64	38.45
HSDPA Subtest 2	21	21.01	21.49	15.09	38.45
HSDPA Subtest 3	20.81	21.34	21.29	14.94	38.45
HSDPA Subtest 4	20.77	20.82	20.84	14.44	38.45
HSUPA Subtest 1	20.67	20.75	20.64	14.35	38.45
HSUPA Subtest 2	20.47	20.78	20.58	14.38	38.45
HSUPA Subtest 3	20.45	20.77	20.97	14.57	38.45
HSUPA Subtest 4	20.26	20.43	20.56	14.16	38.45
HSUPA Subtest 5	20.11	20.25	20.14	13.85	38.45
HSPA+ Subtest 1	21.22	21.33	21.14	14.93	38.45

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15**Result:****Pass**

LTE Band 2:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.2	23.35	23.14	21.91	33
	RB1#3	22.43	23.57	23.35		
	RB1#5	22.23	23.41	23.11		
	RB3#0	22.23	23.51	23.25		
	RB3#3	22.3	23.51	23.2		
	RB6#0	21.3	22.47	22.2		
1.4MHz 16QAM	RB1#0	21.11	22.32	22.25	21.06	33
	RB1#3	21.4	22.62	22.44		
	RB1#5	21.22	22.41	22.22		
	RB3#0	21.37	22.67	22.19		
	RB3#3	21.36	22.72	22.19		
	RB6#0	20.22	21.47	21.31		
3MHz QPSK	RB1#0	22.18	23.36	23.21	21.77	33
	RB1#8	22.19	23.42	23.21		
	RB1#14	22.22	23.43	23.06		
	RB6#0	21.14	22.35	22.18		
	RB6#9	21.28	22.43	22.1		
	RB15#0	21.29	22.48	22.2		
3MHz 16QAM	RB1#0	21.14	22.89	22.36	21.31	33
	RB1#8	21.2	22.97	22.31		
	RB1#14	21.28	22.96	22.21		
	RB6#0	20.07	21.41	21.19		
	RB6#9	20.18	21.51	21.1		
	RB15#0	20.28	21.55	21.18		
5MHz QPSK	RB1#0	22.09	23.19	23.18	21.78	33
	RB1#13	22.35	23.44	23.26		
	RB1#24	22.35	23.34	22.96		
	RB15#0	21.27	22.45	22.32		
	RB15#10	21.35	22.39	22.19		
	RB25#0	21.29	22.39	22.2		
5MHz 16QAM	RB1#0	21.34	22.22	22.06	20.82	33
	RB1#13	21.64	22.48	22.1		
	RB1#24	21.54	22.42	21.85		
	RB15#0	20.26	21.49	21.35		
	RB15#10	20.31	21.43	21.21		
	RB25#0	20.28	21.44	21.26		
10MHz QPSK	RB1#0	22.12	23.25	23.47	21.89	33
	RB1#25	22.5	23.55	23.49		
	RB1#49	22.58	23.5	23.08		
	RB25#0	21.33	22.46	22.4		

	RB25#25	21.53	22.48	22.19		
	RB50#0	21.42	22.54	22.34		
10MHz 16QAM	RB1#0	21.28	22.22	23.05	21.39	33
	RB1#25	21.62	22.58	23.01		
	RB1#49	21.71	22.6	22.65		
	RB25#0	20.33	21.57	21.46		
	RB25#25	20.6	21.56	21.28		
	RB50#0	20.42	21.52	21.34		
15MHz QPSK	RB1#0	22.01	23.08	23.54	21.88	33
	RB1#38	22.46	23.45	23.37		
	RB1#74	22.61	23.43	23.06		
	RB36#0	21.34	22.44	22.49		
	RB36#39	21.69	22.49	22.35		
	RB75#0	21.56	22.49	22.43		
15MHz 16QAM	RB1#0	21.6	22.2	22.91	21.25	33
	RB1#38	22.01	22.59	22.79		
	RB1#74	22.2	22.58	22.39		
	RB36#0	20.35	21.45	21.5		
	RB36#39	20.69	21.52	21.28		
	RB75#0	20.5	21.46	21.36		
20MHz QPSK	RB1#0	22.03	22.87	23.44	22.09	33
	RB1#50	22.8	23.61	23.75		
	RB1#99	22.8	23.41	23.01		
	RB50#0	21.58	22.48	22.58		
	RB50#50	21.96	22.5	22.35		
	RB100#0	21.78	22.49	22.5		
20MHz 16QAM	RB1#0	21.27	22.47	22.79	21.48	33
	RB1#50	22.12	23.14	23.06		
	RB1#99	22.1	22.99	22.27		
	RB50#0	20.52	21.47	21.53		
	RB50#50	20.99	21.52	21.38		
	RB100#0	20.79	21.5	21.48		

Note: EIRP=Conducted Power(dBm) - L_c(dB) + G_T(dBi)**Result:****Pass**

LTE Band 4:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	21.97	20.78	22.04	19.81	30
	RB1#3	22.04	20.99	22.23		
	RB1#5	21.85	20.81	22.12		
	RB3#0	21.95	20.9	22.15		
	RB3#3	21.92	20.88	22.21		
	RB6#0	20.96	19.88	21.17		
1.4MHz 16QAM	RB1#0	20.85	19.94	21.08	18.85	30
	RB1#3	20.98	20.14	21.27		
	RB1#5	20.81	19.98	21.15		
	RB3#0	21.17	19.92	21.23		
	RB3#3	21.04	20.02	21.24		
	RB6#0	19.87	18.96	20.08		
3MHz QPSK	RB1#0	21.95	20.89	21.96	19.74	30
	RB1#8	21.89	20.83	22.12		
	RB1#14	21.78	20.82	22.16		
	RB6#0	20.86	19.85	20.96		
	RB6#9	20.77	19.84	21.13		
	RB15#0	20.87	19.93	21.12		
3MHz 16QAM	RB1#0	20.93	20.39	21.08	18.84	30
	RB1#8	20.81	20.41	21.2		
	RB1#14	20.75	20.42	21.26		
	RB6#0	19.86	18.9	19.95		
	RB6#9	19.71	18.93	20.14		
	RB15#0	19.88	18.94	20.05		
5MHz QPSK	RB1#0	21.81	20.76	21.59	19.61	30
	RB1#13	21.8	20.87	21.96		
	RB1#24	21.53	20.79	22.03		
	RB15#0	20.8	19.84	20.83		
	RB15#10	20.73	19.8	20.95		
	RB25#0	20.72	19.79	20.88		
5MHz 16QAM	RB1#0	20.88	19.66	20.95	18.84	30
	RB1#13	20.83	19.75	21.22		
	RB1#24	20.61	19.62	21.26		
	RB15#0	19.82	18.9	19.79		
	RB15#10	19.66	18.83	19.9		
	RB25#0	19.67	18.82	19.82		
10MHz QPSK	RB1#0	21.83	20.86	21.3	19.59	30
	RB1#25	21.75	20.93	21.82		
	RB1#49	21.26	20.89	22.01		
	RB25#0	20.65	19.92	20.55		

	RB25#25	20.45	19.87	20.81		
	RB50#0	20.57	19.92	20.68		
10MHz 16QAM	RB1#0	20.83	20.36	20.4	18.67	30
	RB1#25	20.67	20.52	20.93		
	RB1#49	20.23	20.4	21.09		
	RB25#0	19.8	18.92	19.49		
	RB25#25	19.58	18.92	19.83		
	RB50#0	19.61	18.89	19.68		
	RB1#0	21.74	20.8	20.96		
15MHz QPSK	RB1#38	21.38	20.76	21.5	19.52	30
	RB1#74	20.89	20.83	21.94		
	RB36#0	20.68	19.92	20.24		
	RB36#39	20.2	19.88	20.77		
	RB75#0	20.5	19.91	20.49		
15MHz 16QAM	RB1#0	21.12	20.4	20.04	18.7	30
	RB1#38	20.78	20.35	20.62		
	RB1#74	20.28	20.37	20.99		
	RB36#0	19.62	18.92	19.88		
	RB36#39	19.15	18.98	19.95		
	RB75#0	19.4	18.89	19.89		
20MHz QPSK	RB1#0	21.61	21.62	21.61	19.7	30
	RB1#50	21.96	22.05	22.12		
	RB1#99	21.51	21.7	21.74		
	RB50#0	20.82	20.93	20.86		
	RB50#50	20.77	20.91	20.87		
	RB100#0	20.79	20.89	20.9		
20MHz 16QAM	RB1#0	21.08	20.83	20.79	19.07	30
	RB1#50	21.49	21.32	21.29		
	RB1#99	21.22	20.91	20.93		
	RB50#0	19.87	19.95	19.87		
	RB50#50	19.87	19.89	19.87		
	RB100#0	19.91	19.93	19.89		

Note: EIRP=Conducted Power(dBm) - L_c(dB) + G_T(dBi)**Result:****Pass**

LTE Band 5:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	23.29	23.3	23.22	17.1	38.45
	RB1#3	23.5	23.4	23.43		
	RB1#5	23.26	23.27	23.3		
	RB3#0	23.31	23.31	23.34		
	RB3#3	23.34	23.2	23.31		
	RB6#0	22.41	22.36	22.41		
1.4MHz 16QAM	RB1#0	22.27	22.22	22.37	16.15	38.45
	RB1#3	22.5	22.47	22.55		
	RB1#5	22.38	22.24	22.36		
	RB3#0	22.45	22.5	22.31		
	RB3#3	22.37	22.48	22.4		
	RB6#0	21.31	21.34	21.42		
3MHz QPSK	RB1#0	23.53	23.35	23.27	17.13	38.45
	RB1#8	23.5	23.22	23.29		
	RB1#14	23.49	23.26	23.32		
	RB6#0	22.4	22.29	22.32		
	RB6#9	22.48	22.29	22.29		
	RB15#0	22.44	22.3	22.31		
3MHz 16QAM	RB1#0	22.43	22.87	22.44	16.47	38.45
	RB1#8	22.42	22.83	22.38		
	RB1#14	22.41	22.8	22.43		
	RB6#0	21.34	21.35	21.28		
	RB6#9	21.34	21.3	21.32		
	RB15#0	21.41	21.32	21.2		
5MHz QPSK	RB1#0	23.33	23.28	23.18	16.98	38.45
	RB1#13	23.38	23.31	23.26		
	RB1#24	23.3	23.17	23.13		
	RB15#0	22.43	22.28	22.3		
	RB15#10	22.4	22.3	22.23		
	RB25#0	22.41	22.29	22.22		
5MHz 16QAM	RB1#0	22.44	22.09	22.43	16.11	38.45
	RB1#13	22.48	22.13	22.51		
	RB1#24	22.4	22.09	22.45		
	RB15#0	21.44	21.3	21.23		
	RB15#10	21.42	21.28	21.17		
	RB25#0	21.4	21.27	21.21		
10MHz QPSK	RB1#0	23.36	23.24	23.24	17.06	38.45
	RB1#25	23.46	23.38	23.4		
	RB1#49	23.25	23.21	23.26		
	RB25#0	22.39	22.29	22.37		

	RB25#25	22.37	22.32	22.29		
	RB50#0	22.39	22.34	22.32		
10MHz 16QAM	RB1#0	22.3	22.87	22.4	16.55	38.45
	RB1#25	22.48	22.95	22.51		
	RB1#49	22.27	22.76	22.44		
	RB25#0	21.47	21.35	21.34		
	RB25#25	21.44	21.35	21.27		
	RB50#0	21.39	21.36	21.3		
Note: ERP= Conducted Power(dBm) - Lc(dB) + G _T (dBd) G _T (dBd)=G _T (dBi)-2.15						
					Result:	Pass

LTE Band 7:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.17	22.04	22.16	22.67	33
	RB1#13	22.35	22.22	22.32		
	RB1#24	22.21	22.04	22.17		
	RB15#0	21.35	21.29	21.25		
	RB15#10	21.3	21.2	21.29		
	RB25#0	21.3	21.2	21.2		
5MHz 16QAM	RB1#0	21.16	21.03	21.36	21.83	33
	RB1#13	21.29	21.06	21.51		
	RB1#24	21.11	20.99	21.37		
	RB15#0	20.28	20.29	20.16		
	RB15#10	20.17	20.21	20.2		
	RB25#0	20.19	20.22	20.16		
10MHz QPSK	RB1#0	22.42	22.09	22.03	22.9	33
	RB1#25	22.58	22.23	22.4		
	RB1#49	22.42	22.05	22.32		
	RB25#0	21.37	21.17	21.2		
	RB25#25	21.38	21.05	21.31		
	RB50#0	21.39	21.13	21.17		
10MHz 16QAM	RB1#0	21.24	21.61	21.15	22.15	33
	RB1#25	21.4	21.83	21.35		
	RB1#49	21.25	21.56	21.19		
	RB25#0	20.3	20.21	20.02		
	RB25#25	20.31	20.09	20.12		
	RB50#0	20.23	20.1	20.02		
15MHz QPSK	RB1#0	22.06	22	21.94	22.56	33
	RB1#38	22.24	22.08	22.09		
	RB1#74	22.04	21.92	22		
	RB36#0	21.26	21.15	21.17		
	RB36#39	21.32	21.09	21.35		
	RB75#0	21.25	21.14	21.25		
15MHz 16QAM	RB1#0	21.34	21.46	21.21	21.88	33
	RB1#38	21.47	21.56	21.36		
	RB1#74	21.31	21.39	21.3		
	RB36#0	20.17	20.11	20.19		
	RB36#39	20.22	19.97	20.28		
	RB75#0	20.19	20.08	20.2		
20MHz QPSK	RB1#0	21.97	21.85	21.91	22.78	33
	RB1#50	22.42	22.18	22.46		
	RB1#99	22.01	22.06	22.17		
	RB50#0	21.27	21.28	21.21		

	RB50#50	21.46	21.12	21.33		
	RB100#0	21.37	21.21	21.27		
20MHz 16QAM	RB1#0	21.48	21.35	21.15	22.15	33
	RB1#50	21.83	21.67	21.6		
	RB1#99	21.49	21.28	21.13		
	RB50#0	20.12	20.27	19.88		
	RB50#50	20.17	20.11	20.1		
	RB100#0	20.12	20.21	19.99		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + GT(dBi)						
					Result:	Pass

5.3 Radiated Spurious Emissions

Serial Number:	2PN1-1	Test Date:	Below 1GHz: 2024/8/16 Above 1GHz: 2024/8/15
Test Site:	Chamber 10m, Chamber B	Test Mode:	Transmitting
Tester:	Zoo Zou, Colin Yang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.8~27.8	Relative Humidity: (%)	52~53	ATM Pressure: (kPa)	100.4~100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
30MHz~1000MHz					
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/8/1	2025/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/8/1	2025/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/8/1	2025/7/31
Sonoma	Amplifier	310N	185914	2024/8/1	2025/7/31
R&S	EMI Test Receiver	ESCI	101121	2023/10/18	2024/10/17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2023/9/9	2024/9/8
Agilent	Signal Generator	E8247C	MY43321350	2023/10/18	2024/10/17
R&S	Wideband Radio Communication Tester	CMW500	149216	2023/10/18	2024/10/17
Sinoscite	Band Rejection Filter	BSF824-862MS	1438001	2024/6/7	2025/6/6

Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-03 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-02 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2023/11/17	2024/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2023/9/9	2024/9/8
Agilent	Signal Generator	E8247C	MY43321350	2023/10/18	2024/10/17
AH	Preamplifier	PAM-0118P	469	2023/8/19	2024/8/18
AH	Preamplifier	PAM-1840VH	191	2023/9/7	2024/9/6
R&S	Spectrum Analyzer	FSV40	101944	2023/10/18	2024/10/17
Sinoscite	Band Rejection Filter	BSF1710-1785MN	0383003	2024/6/7	2025/6/6
Sinoscite	Band Rejection Filter	BSF1850-1910MS	0935V2001	2024/6/11	2025/6/10
Mini-Circuits	High Pass Filter	VHF-1200+	31102	2024/8/1	2025/7/31
Sinoscite	Band Rejection Filter	BSF2500-2750MS	1439001	2024/6/7	2025/6/6

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (30MHz-10GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 850 Frequency:824.2MHz								
218.12	H	45.04	-64.84	0.00	0.21	-65.05	-13.00	52.05
57.16	V	48.86	-53.57	-11.61	0.18	-65.36	-13.00	52.36
1648.40	H	75.47	-49.66	10.44	0.71	-39.93	-13.00	26.93
1648.40	V	79.80	-45.93	10.44	0.71	-36.20	-13.00	23.20
2472.60	H	67.80	-54.98	12.88	1.25	-43.35	-13.00	30.35
2472.60	V	65.42	-57.41	12.88	1.25	-45.78	-13.00	32.78
3296.80	H	52.15	-67.24	13.60	1.59	-55.23	-13.00	42.23
3296.80	V	51.65	-67.74	13.60	1.59	-55.73	-13.00	42.73
GPRS 850 Frequency:836.6MHz								
217.51	H	45.16	-64.73	0.00	0.21	-64.94	-13.00	51.94
56.94	V	49.00	-53.21	-11.71	0.18	-65.10	-13.00	52.10
1673.20	H	75.32	-49.43	10.61	0.73	-39.55	-13.00	26.55
1673.20	V	82.87	-42.48	10.61	0.73	-32.60	-13.00	19.60
2509.80	H	69.28	-53.60	13.11	1.25	-41.74	-13.00	28.74
2509.80	V	68.05	-54.85	13.11	1.25	-42.99	-13.00	29.99
3346.40	H	55.58	-63.63	13.83	1.61	-51.41	-13.00	38.41
3346.40	V	56.09	-63.17	13.83	1.61	-50.95	-13.00	37.95
GPRS 850 Frequency:848.8MHz								
217.47	H	45.28	-64.61	0.00	0.21	-64.82	-13.00	51.82
57.42	V	49.04	-53.66	-11.49	0.18	-65.33	-13.00	52.33
1697.60	H	74.10	-50.27	10.78	0.75	-40.24	-13.00	27.24
1697.60	V	81.27	-43.70	10.78	0.75	-33.67	-13.00	20.67
2546.40	H	69.54	-53.33	13.15	1.27	-41.45	-13.00	28.45
2546.40	V	68.09	-54.92	13.15	1.27	-43.04	-13.00	30.04
3395.20	H	55.62	-63.37	14.08	1.64	-50.93	-13.00	37.93
3395.20	V	54.65	-64.44	14.08	1.64	-52.00	-13.00	39.00

PCS Band (30MHz-20GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 1900 Frequency:1850.2MHz								
217.68	H	45.62	-64.27	0.00	0.21	-64.48	-13.00	51.48
57.58	V	49.20	-53.66	-11.41	0.17	-65.24	-13.00	52.24
3700.40	H	54.24	-64.33	14.00	1.83	-52.16	-13.00	39.16
3700.40	V	52.67	-65.88	14.00	1.83	-53.71	-13.00	40.71
5550.60	H	56.69	-57.42	13.95	1.27	-44.74	-13.00	31.74
5550.60	V	52.58	-61.38	13.95	1.27	-48.70	-13.00	35.70
GPRS 1900 Frequency:1880MHz								
218.23	H	45.74	-64.14	0.00	0.21	-64.35	-13.00	51.35
56.72	V	49.29	-52.69	-11.81	0.18	-64.68	-13.00	51.68
3760.00	H	52.32	-65.52	13.76	1.63	-53.39	-13.00	40.39
3760.00	V	53.89	-63.82	13.76	1.63	-51.69	-13.00	38.69
5640.00	H	55.58	-58.14	14.02	1.31	-45.43	-13.00	32.43
5640.00	V	55.53	-58.08	14.02	1.31	-45.37	-13.00	32.37
GPRS 1900 Frequency:1909.8MHz								
218.35	H	45.85	-64.03	0.00	0.21	-64.24	-13.00	51.24
57.54	V	49.51	-53.31	-11.43	0.17	-64.91	-13.00	51.91
3819.60	H	52.14	-65.13	13.56	1.50	-53.07	-13.00	40.07
3819.60	V	54.06	-63.02	13.56	1.50	-50.96	-13.00	37.96
5729.40	H	56.88	-57.14	13.96	1.31	-44.49	-13.00	31.49
5729.40	V	56.04	-57.95	13.96	1.31	-45.30	-13.00	32.30

WCDMA Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
218.51	H	45.69	-64.18	0.00	0.21	-64.39	-13.00	51.39
56.35	V	49.26	-52.35	-11.98	0.18	-64.51	-13.00	51.51
3704.80	H	48.82	-69.70	13.98	1.81	-57.53	-13.00	44.53
3704.80	V	48.46	-70.03	13.98	1.81	-57.86	-13.00	44.86
5557.20	H	49.21	-64.84	13.97	1.27	-52.14	-13.00	39.14
5557.20	V	50.43	-63.47	13.97	1.27	-50.77	-13.00	37.77
WCDMA Band II, Frequency:1880 MHz								
217.76	H	45.77	-64.12	0.00	0.21	-64.33	-13.00	51.33
56.87	V	49.34	-52.80	-11.74	0.18	-64.72	-13.00	51.72
3760.00	H	49.80	-68.04	13.76	1.63	-55.91	-13.00	42.91
3760.00	V	47.16	-70.55	13.76	1.63	-58.42	-13.00	45.42
5640.00	H	49.24	-64.48	14.02	1.31	-51.77	-13.00	38.77
5640.00	V	48.11	-65.50	14.02	1.31	-52.79	-13.00	39.79
WCDMA Band II, Frequency:1907.6MHz								
217.42	H	45.89	-64.00	0.00	0.21	-64.21	-13.00	51.21
55.94	V	49.48	-51.71	-12.17	0.18	-64.06	-13.00	51.06
3815.20	H	47.66	-69.63	13.57	1.50	-57.56	-13.00	44.56
3815.20	V	47.97	-69.13	13.57	1.50	-57.06	-13.00	44.06
5722.80	H	50.10	-63.89	13.95	1.32	-51.26	-13.00	38.26
5722.80	V	49.91	-64.03	13.95	1.32	-51.40	-13.00	38.40

WCDMA Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
217.79	H	45.07	-64.82	0.00	0.21	-65.03	-13.00	52.03
56.49	V	48.81	-52.94	-11.91	0.18	-65.03	-13.00	52.03
1652.80	H	46.58	-78.48	10.47	0.72	-68.73	-13.00	55.73
1652.80	V	46.21	-79.45	10.47	0.72	-69.70	-13.00	56.70
2479.20	H	47.93	-74.87	12.93	1.25	-63.19	-13.00	50.19
2479.20	V	47.51	-75.33	12.93	1.25	-63.65	-13.00	50.65
3305.60	H	47.92	-71.47	13.63	1.59	-59.43	-13.00	46.43
3305.60	V	47.81	-71.59	13.63	1.59	-59.55	-13.00	46.55
WCDMA Band 5 Frequency:836.6MHz								
218.09	H	45.14	-64.74	0.00	0.21	-64.95	-13.00	51.95
57.09	V	48.89	-53.47	-11.64	0.18	-65.29	-13.00	52.29
1673.20	H	46.07	-78.68	10.61	0.73	-68.80	-13.00	55.80
1673.20	V	46.13	-79.22	10.61	0.73	-69.34	-13.00	56.34
2509.80	H	47.43	-75.45	13.11	1.25	-63.59	-13.00	50.59
2509.80	V	47.55	-75.35	13.11	1.25	-63.49	-13.00	50.49
3346.40	H	47.10	-72.11	13.83	1.61	-59.89	-13.00	46.89
3346.40	V	48.41	-70.85	13.83	1.61	-58.63	-13.00	45.63
WCDMA Band 5 Frequency:846.6MHz								
217.81	H	45.29	-64.60	0.00	0.21	-64.81	-13.00	51.81
56.86	V	48.95	-53.18	-11.74	0.18	-65.10	-13.00	52.10
1693.20	H	46.95	-77.49	10.75	0.75	-67.49	-13.00	54.49
1693.20	V	48.03	-77.01	10.75	0.75	-67.01	-13.00	54.01
2539.80	H	47.88	-74.99	13.14	1.27	-63.12	-13.00	50.12
2539.80	V	47.55	-75.44	13.14	1.27	-63.57	-13.00	50.57
3386.40	H	47.73	-71.30	14.03	1.63	-58.90	-13.00	45.90
3386.40	V	38.40	-80.72	14.03	1.63	-68.32	-13.00	55.32

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK,Frequency:1850.7 MHz								
217.93	H	45.65	-64.23	0.00	0.21	-64.44	-13.00	51.44
57.01	V	49.24	-53.04	-11.68	0.18	-64.90	-13.00	51.90
3701.40	H	50.21	-68.35	13.99	1.83	-56.19	-13.00	43.19
3701.40	V	54.84	-63.70	13.99	1.83	-51.54	-13.00	38.54
5552.10	H	49.70	-64.40	13.96	1.27	-51.71	-13.00	38.71
5552.10	V	49.13	-64.82	13.96	1.27	-52.13	-13.00	39.13
1RB, 1.4MHz, QPSK,Frequency:1880 MHz								
217.56	H	45.80	-64.09	0.00	0.21	-64.30	-13.00	51.30
56.88	V	49.36	-52.79	-11.74	0.18	-64.71	-13.00	51.71
3760.00	H	49.26	-68.58	13.76	1.63	-56.45	-13.00	43.45
3760.00	V	56.72	-60.99	13.76	1.63	-48.86	-13.00	35.86
5640.00	H	49.26	-64.46	14.02	1.31	-51.75	-13.00	38.75
5640.00	V	50.22	-63.39	14.02	1.31	-50.68	-13.00	37.68
1RB, 1.4MHz, QPSK,Frequency:1909.3 MHz								
218.01	H	45.91	-63.97	0.00	0.21	-64.18	-13.00	51.18
56.63	V	49.49	-52.40	-11.85	0.18	-64.43	-13.00	51.43
3818.60	H	51.33	-65.94	13.56	1.50	-53.88	-13.00	40.88
3818.60	V	55.81	-61.28	13.56	1.50	-49.22	-13.00	36.22
5727.90	H	50.36	-63.65	13.96	1.31	-51.00	-13.00	38.00
5727.90	V	50.25	-63.73	13.96	1.31	-51.08	-13.00	38.08

LTE Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK,Frequency:1710.7 MHz								
218.25	H	45.57	-64.31	0.00	0.21	-64.52	-13.00	51.52
57.04	V	49.15	-53.16	-11.66	0.18	-65.00	-13.00	52.00
3421.40	H	53.92	-64.99	14.04	1.63	-52.58	-13.00	39.58
3421.40	V	54.72	-64.26	14.04	1.63	-51.85	-13.00	38.85
5132.10	H	50.30	-66.21	13.93	1.37	-53.65	-13.00	40.65
5132.10	V	50.06	-66.36	13.93	1.37	-53.80	-13.00	40.80
1RB, 1.4MHz, QPSK,Frequency:1732.5 MHz								
218.27	H	45.64	-64.24	0.00	0.21	-64.45	-13.00	51.45
56.81	V	49.30	-52.78	-11.77	0.18	-64.73	-13.00	51.73
3465.00	H	50.54	-68.24	13.91	1.62	-55.95	-13.00	42.95
3465.00	V	54.83	-63.98	13.91	1.62	-51.69	-13.00	38.69
5197.50	H	51.63	-64.74	14.00	1.52	-52.26	-13.00	39.26
5197.50	V	51.31	-65.13	14.00	1.52	-52.65	-13.00	39.65
1RB, 1.4MHz, QPSK,Frequency:1754.3MHz								
217.25	H	45.76	-64.14	0.00	0.21	-64.35	-13.00	51.35
57.57	V	49.37	-53.48	-11.42	0.17	-65.07	-13.00	52.07
3508.60	H	50.96	-67.75	13.83	1.60	-55.52	-13.00	42.52
3508.60	V	43.42	-75.29	13.83	1.60	-63.06	-13.00	50.06
5262.90	H	50.16	-66.61	14.19	1.29	-53.71	-13.00	40.71
5262.90	V	50.13	-66.72	14.19	1.29	-53.82	-13.00	40.82

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 1.4MHz, QPSK, Frequency: 824.7 MHz								
217.95	H	45.01	-64.87	0.00	0.21	-65.08	-13.00	52.08
57.08	V	48.63	-53.72	-11.64	0.18	-65.54	-13.00	52.54
1649.40	H	64.14	-60.97	10.45	0.71	-51.23	-13.00	38.23
1649.40	V	70.99	-54.72	10.45	0.71	-44.98	-13.00	31.98
2474.10	H	58.15	-64.63	12.89	1.25	-52.99	-13.00	39.99
2474.10	V	56.54	-66.29	12.89	1.25	-54.65	-13.00	41.65
3298.80	H	47.34	-72.07	13.60	1.59	-60.06	-13.00	47.06
3298.80	V	49.57	-69.84	13.60	1.59	-57.83	-13.00	44.83
1RB, 1.4MHz, QPSK, Frequency: 836.5 MHz								
217.86	H	45.15	-64.73	0.00	0.21	-64.94	-13.00	51.94
57.61	V	48.80	-54.09	-11.40	0.17	-65.66	-13.00	52.66
1673.00	H	65.97	-58.78	10.61	0.73	-48.90	-13.00	35.90
1673.00	V	72.31	-53.04	10.61	0.73	-43.16	-13.00	30.16
2509.50	H	60.34	-62.54	13.11	1.25	-50.68	-13.00	37.68
2509.50	V	58.72	-64.18	13.11	1.25	-52.32	-13.00	39.32
3346.00	H	50.30	-68.91	13.83	1.61	-56.69	-13.00	43.69
3346.00	V	50.50	-68.76	13.83	1.61	-56.54	-13.00	43.54
1RB, 1.4MHz, QPSK, Frequency: 848.3 MHz								
217.55	H	45.24	-64.65	0.00	0.21	-64.86	-13.00	51.86
56.46	V	48.88	-52.84	-11.93	0.18	-64.95	-13.00	51.95
1696.60	H	63.82	-60.56	10.78	0.75	-50.53	-13.00	37.53
1696.60	V	68.94	-56.04	10.78	0.75	-46.01	-13.00	33.01
2544.90	H	57.53	-65.34	13.14	1.27	-53.47	-13.00	40.47
2544.90	V	55.35	-67.66	13.14	1.27	-55.79	-13.00	42.79
3393.20	H	48.49	-70.51	14.07	1.64	-58.08	-13.00	45.08
3393.20	V	50.09	-69.00	14.07	1.64	-56.57	-13.00	43.57

LTE Band 7 (30MHz-26GHz):

1RB Band 1 (5MHz to 7.5MHz)								
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1RB, 5MHz, QPSK, Frequency: 2502.5 MHz								
217.64	H	46.26	-63.63	0.00	0.21	-63.84	-25.00	38.84
57.05	V	49.67	-52.65	-11.66	0.18	-64.49	-25.00	39.49
5005.00	H	54.78	-62.87	14.00	1.43	-50.30	-25.00	25.30
5005.00	V	53.80	-63.61	14.00	1.43	-51.04	-25.00	26.04
7507.50	H	51.35	-57.78	13.20	1.33	-45.91	-25.00	20.91
7507.50	V	50.36	-59.25	13.20	1.33	-47.38	-25.00	22.38
1RB, 5MHz, QPSK, Frequency:2535 MHz								
217.97	H	46.59	-63.29	0.00	0.21	-63.50	-25.00	38.50
57.21	V	49.92	-52.56	-11.58	0.18	-64.32	-25.00	39.32
5070.00	H	56.42	-60.49	13.93	1.34	-47.90	-25.00	22.90
5070.00	V	57.61	-59.11	13.93	1.34	-46.52	-25.00	21.52
7605.00	H	49.63	-59.78	13.21	1.40	-47.97	-25.00	22.97
7605.00	V	50.65	-59.16	13.21	1.40	-47.35	-25.00	22.35
1RB, 5MHz, QPSK, Frequency: 2567.5 MHz								
217.93	H	46.81	-63.07	0.00	0.21	-63.28	-25.00	38.28
56.99	V	50.39	-51.87	-11.68	0.18	-63.73	-25.00	38.73
5135.00	H	54.32	-62.18	13.94	1.38	-49.62	-25.00	24.62
5135.00	V	53.17	-63.25	13.94	1.38	-50.69	-25.00	25.69
7702.50	H	49.01	-60.68	13.40	1.47	-48.75	-25.00	23.75
7702.50	V	49.19	-60.82	13.40	1.47	-48.89	-25.00	23.89

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402W89350E-RF-A1-EXP EUT EXTERNAL PHOTOGRAPHS and 2402W89350E-RF-A1-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402W89350E-RF-00FA1-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====