





WCDMA TEST REPORT No. 24T04Z103042-002

for

TCL Communication Ltd.

GSM/UMTS/LTE mobile phone

Model Name: T626K

FCC ID: 2ACCJB232

with

Hardware Version: 05

Software Version: v3LA8

Issued Date: 2025-02-24

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z103042-002	Rev.0	1 st edition	2025-02-19
24T04Z103042-002	Rev.1	Updated the results in	2025-02-24
		chapter A.8	

Note: the latest revision of the test report supersedes all previous version.





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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191
Location 2: CTTL (BDA)	
Address:	No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, P. R. China 100176

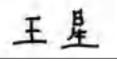
1.3. Testing Environment

Normal Temperature: $15-35^{\circ}$ CRelative Humidity:20-75%

1.4. Project Data

Testing Start Date:	2024-12-25
Testing End Date:	2025-02-17

1.5. Signature



Wang Xing (Prepared this test report)



Zhou Yu (Reviewed this test report)

赵慧祥

Zhao Hui Lin (Approved this test report)





2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/UMTS/LTE mobile phone
Model Name	T626K
FCC ID	2ACCJB232
Antenna	Embedded
Output power	22.51 dBm maximum EIRP measured for WCDMA Band IV
Extreme Voltage	3.6VDC to 4.4VDC (nominal: 3.91VDC)
Extreme Temperature	-10°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT08a	355077160000260/	05	v3LA8	2024-12-25
0100a	355077160000336	05	VJLAO	2024-12-25
UT27a	355077160000971/	05	v3LA8	2025-01-17
01278	355077160001045	05	VJLAO	2023-01-17
UT28a	355077160000997/	05	v3LA8	2025-01-17
0120a	355077160001060	05	VJLAO	2023-01-17

UT27a, UT28a were used for emission limit test and UT08a was used for other testing cases. *EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID * AE1	Description Battery	
AE2	Battery	
	Dallery	
AE1		
Model		TLp050B9
Manufact	turer	Guangdong Fenghua New Energy Co.,Ltd.
Capacita	nce	5000mAh
AE2		
Model		TLp050B7
Manufact	turer	Dongguan Veken Batterr CO.,LTD.
Capacita	nce	5000mAh
*AF ID [.] is u	used to identify th	e test sample in the lab internally

AE ID: is used to identify the test sample in the lab internally.





4. <u>Reference Documents</u>

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference FCC Part 24	Title PERSONAL COMMUNICATIONS SERVICES	Version 10-1-23
FCC Part 22	PUBLIC MOBILE SERVICES	Edition 10-1-23
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS	Edition 10-1-23
100141127	SERVICES	Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF	v03r01
	LICENSED DIGITAL TRANSMITTERS	





5. Summary of Test Result

WCDMA Band II

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	24.232	Р
2	Emission Limit	2.1051/24.238	Р
3	Frequency Stability	2.1055	Р
4	Occupied Bandwidth	2.1049	Р
5	Emission Bandwidth	24.238	Р
6	Band Edge Compliance	24.238	Р
7	Conducted Spurious Emission	24.238	Р
8	Peak-to-Average Power Ratio	24.232	Р

WCDMA Band V

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	22.913	Р
2	Emission Limit	2.1051/22.917	Р
3	Frequency Stability	2.1055	Р
4	Occupied Bandwidth	2.1049	Р
5	Emission Bandwidth	22.917	Р
6	Band Edge Compliance	22.917	Р
7	Conducted Spurious Emission	22.917	Р

WCDMA Band IV

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	Р
2	Emission Limit	2.1051/27.53	Р
3	Frequency Stability	2.1055	Р
4	Occupied Bandwidth	2.1049	Р
5	Emission Bandwidth	27.53	Р
6	Band Edge Compliance	27.53	Р
7	Conducted Spurious Emission	27.53	Р
8	Peak-to-Average Power Ratio	27.50	Р





Terms used in Verdict column

Р	Pass. The EUT complies with the essential requirements in the standard.		
NP	Not Performed. The test was not performed by CTTL.		
NA	Not Applicable. The test was not applicable.		
BR	Re-use test data from basic model report.		
F	Fail. The EUT does not comply with the essential requirements in the		
	standard.		

All the test results are based on normal power.

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK and 16QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.





6. Test Equipment Utilized

Description	Туре	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2025-12-03	1 year
Spectrum Analyzer	FSV	101576	R&S	2025-05-08	1 year
Climate chamber	SH-241	92004642	ESPEC	2025-10-29	1 year
Test Receiver	FSV30	101525	R&S	2026-01-15	1 year
EMI Antenna	VULB 9163	9163-482	Schwarzbeck	2025-05-19	1 year
EMI Antenna	9117	167	Schwarzbeck	2026-10-15	2 years
EMI Antenna	LB-7180-NF	J2030013000005	A-INFO	2025-05-16	1 year
EMI Antenna	3115	00146404	ETS-Lindgren	2025-05-16	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2026-01-15	1 year
Signal Generator	SMF100A	101295	R&S	2025-02-04	1 year

Note: Only the latest Cal Due Dates of equipment are listed above and all equipment is in valid calibration period when used.





7. <u>Measurement Uncertainty</u>

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

Test	item	Measurement uncertainty
Output P	ower(dB)	1.17
Emission Limit(dB)		3.44
Fraguanay Stability	FE(ppm)	1.16
Frequency Stability	F∟F _H (kHz)	6.10
Occupied Bandwidth(%)		0.35
Emission Ba	andwidth(%)	0.39
Band Edge Compliance(dB)		1.59
Conducted Spurio	ous Emission(dB)	4.78
Peak-to-Average	Power Ratio(dB)	1.44





Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

The results below include a correction factor for cable loss that is provided by the customer.

A.1.2.2 Measurement Result

WCDMA Band II

QPSK

	СН	Frequency (MHz)	output power (dBm)
WCDMA	9262	1852.4	23.51
(Band II)	9400	1880.0	23.45
	9538	1907.6	23.41

16QAM

	СН	Frequency (MHz)	output power (dBm)
WCDMA	9262	1852.4	22.13
(Band II)	9400	1880.0	21.93
	9538	1907.6	21.99

WCDMA Band V

QPSK

	СН	Frequency (MHz)	output power (dBm)
WCDMA	4132	826.4	23.35
(Band V)	4183	836.6	23.32
	4233	846.6	23.43

16QAM

	СН	Frequency (MHz)	output power (dBm)
WCDMA	4132	826.4	22.55
(Band V)	4183	836.6	22.49
	4233	846.6	22.69





WCDMA Band IV

QPSK

	СН	Frequency (MHz)	output power (dBm)
WCDMA	1312	1712.4	23.11
(Band IV)	1412	1732.4	23.05
	1513	1752.6	23.04

16QAM

	СН	Frequency (MHz)	output power (dBm)
WCDMA	1312	1712.4	21.72
(Band IV)	1412	1732.4	21.96
	1513	1752.6	21.98





A.1.3 Radiated

A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

Part 27.50(d) specifies "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP".

A.1.3.2 Method of Measurement

According to KDB 412172 D01 and ANSI C63.26 the relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$ERP \text{ or } EIRP = P_T + G_T - L_C$

where;

• ERP or EIRP = effective radiated power or equivalent isotropically radiated

power(expressed in the same units as P_T.

- P_T = transmitter output power, in this report the unit express as dBm;
- 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.

Alternatively, the EIRP can be determined from Equation above and then converted to ERP based on the maximum antenna gain relationship by applying the following equation:

ERP = EIRP - 2.15dB

Note: The antenna gain informations were provided by the client. The laboratory is not responsible for identifying its authenticity during the test.





A.1.3.3 Limits and Measurement Results WCDMA Band II-EIRP

Limits

Band	Burst Peak EIRP (dBm)
WCDMA Band II	≤33dBm

QPSK

WCDMA (Band II)	СН		output power	EIRP(dBm)
	СП	Frequency (MHz)	(dBm)	(G _T – L _C =-1.6)
	9262	1852.4	23.51	21.91
	9400	1880	23.45	21.85
	9538	1907.6	23.41	21.81

16QAM

	СЦ		output power	EIRP(dBm)
	СН	Frequency (MHz)	$(dBm) \qquad (G_T - L_C = -$	
WCDMA (Band II)	9262	1852.4	22.13	20.53
	9400	1880	21.93	20.33
	9538	1907.6	21.99	20.39

WCDMA Band V-ERP

Limits

Band	Burst Peak ERP (dBm)
WCDMA Band V	≤38.45dBm

QPSK

	СЦ	Frequency (MHz)	output power (dPm)	ERP(dBm)
WCDMA (Band V)	CH		output power (dBm)	(G _T – L _C =-4.5)
	4132	826.4	23.35	16.70
	4183	836.6	23.32	16.67
	4233	846.6	23.43	16.78

16QAM

	СЦ	Frequency (MHz)	output power (dPm)	ERP(dBm)
WCDMA (Band V)	CH		output power (dBm)	(G _T – L _C =-4.5)
	4132	826.4	22.55	15.90
	4183	836.6	22.49	15.84
	4233	846.6	22.69	16.04





WCDMA Band IV-EIRP

Limits

Band	Burst Peak EIRP (dBm)
WCDMA Band IV	≤30dBm

QPSK

	СЦ	CH Frequency (MHz)	output power (dPm)	EIRP(dBm)
WCDMA (Band IV)	СП		output power (dBm)	(G _T – L _C =-0.6)
	1312	1712.4	23.11	22.51
	1412	1732.4	23.05	22.45
	1513	1752.6	23.04	22.44

16QAM

	СЦ	Fraguanay (MHz)	output power (dPm)	EIRP(dBm)
	СН	Frequency (MHz)	output power (dBm)	$(G_T - L_C = -0.6)$
WCDMA (Band IV)	1312	1712.4	21.72	21.12
	1412	1732.4	21.96	21.36
	1513	1752.6	21.98	21.38





A.2 Emission Limit

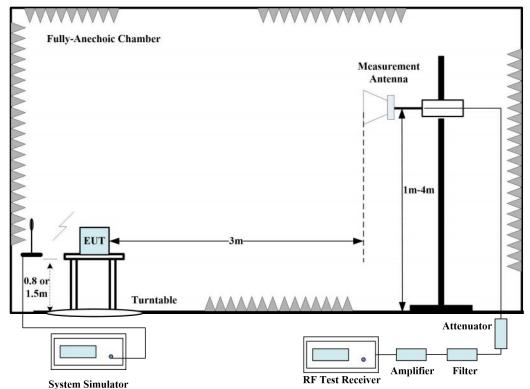
A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917, Part 27.53. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II, WCDMA Band V and WCDMA Band IV.

The procedure of radiated spurious emissions is as follows:

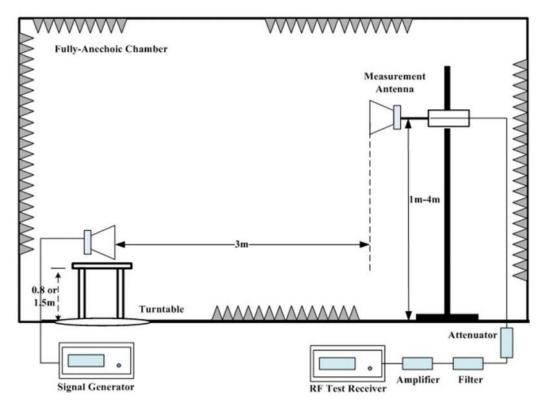
For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz, EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



- 1. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 2. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.







In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

- The Path loss (P_{pl}) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain (G_a) were recorded after test. A amplifier was connected in for the test. The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
- 4. The measurement results are obtained as described below:

Power (EIRP) =
$$P_{Mea} - P_{pl} + G_{a}$$

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

A.2.2 Measurement Limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that 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 + 10log(P) dB.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier

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frequencies of WCDMA Band II (1852.4 MHz, 1880.0MHz and 1907.6MHz), WCDMA Band V(826.4MHz, 836.6MHz and 846.6MHz) and WCDMA Band IV(1712.4MHz, 1732.4MHz and 1752.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band II, WCDMA Band V and WCDMA Band IV into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.





A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result	
	Low	9kHz-10GHz	Pass	
WCDMA Band V	Middle	9kHz-10GHz	Pass	
	High	9kHz-10GHz	Pass	
	Low	9kHz-20GHz	Pass	
WCDMA Band II	Middle	9kHz-20GHz	Pass	
	High	9kHz-20GHz	Pass	
	Low	9kHz-20GHz	Pass	
WCDMA Band IV	Middle	9kHz-20GHz	Pass	
	High	9kHz-20GHz	Pass	

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~20 GHz	1 MHz	3 MHz

A.2.6 Measurement Result





WCDMA BAND II Mode Channel 9262/1852.4MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss (dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3709.00	-64.02	3.49	10.36	-57.15	-13.00	44.15	V
5555.00	-60.20	5.34	11.21	-54.33	-13.00	41.33	V
7411.50	-52.23	8.03	10.10	-50.16	-13.00	37.16	V
9260.00	-50.86	8.85	11.70	-48.01	-13.00	35.01	V
11099.50	-50.03	9.71	12.60	-47.14	-13.00	34.14	Н
12959.00	-45.81	12.51	12.74	-45.58	-13.00	32.58	V

WCDMA BAND II Mode Channel 9400/1880MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss (dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3750.50	-64.26	3.87	10.20	-57.93	-13.00	44.93	Н
5654.00	-59.27	5.73	11.40	-53.60	-13.00	40.60	Н
7528.00	-52.80	7.71	10.26	-50.25	-13.00	37.25	Н
9397.50	-51.03	9.11	11.50	-48.64	-13.00	35.64	V
11285.00	-48.20	10.63	12.62	-46.21	-13.00	33.21	V
13150.00	-43.80	13.24	12.55	-44.49	-13.00	31.49	Н

WCDMA BAND II Mode Channel 9538/1907.6MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss (dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3814.50	-63.62	3.94	9.97	-57.59	-13.00	44.59	Н
5723.00	-58.13	5.90	11.35	-52.68	-13.00	39.68	Н
7645.00	-53.78	6.82	10.39	-50.21	-13.00	37.21	V
9543.00	-50.73	9.11	11.89	-47.95	-13.00	34.95	н
11434.00	-45.69	12.44	12.57	-45.56	-13.00	32.56	V
13365.50	-43.04	13.10	12.43	-43.71	-13.00	30.71	V





WCDMA BAND V Mode Channel 4132/826.4MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2491.50	-54.89	4.47	10.32	2.15	-51.19	-13.00	38.19	V
4968.00	-60.66	4.93	11.24	2.15	-56.50	-13.00	43.50	V
5797.00	-58.29	5.70	11.02	2.15	-55.12	-13.00	42.12	Н
6610.50	-54.24	7.00	10.32	2.15	-53.07	-13.00	40.07	Н
7432.50	-51.52	7.91	10.10	2.15	-51.48	-13.00	38.48	Н
8259.50	-54.01	7.60	11.20	2.15	-52.56	-13.00	39.56	Н

WCDMA BAND V Mode Channel 4183/836.6MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.00	-55.16	4.44	10.30	2.15	-51.45	-13.00	38.45	Н
5034.50	-60.33	5.45	11.51	2.15	-56.42	-13.00	43.42	V
5868.00	-59.01	5.62	10.93	2.15	-55.85	-13.00	42.85	Н
6690.50	-54.25	6.19	10.48	2.15	-52.11	-13.00	39.11	V
7541.50	-52.58	7.47	10.28	2.15	-51.92	-13.00	38.92	Н
8363.00	-52.87	8.22	11.30	2.15	-51.94	-13.00	38.94	Н

WCDMA BAND V Mode Channel 4233/846.6MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2550.00	-54.08	4.58	10.30	2.15	-50.51	-13.00	37.51	Н
5081.50	-60.50	5.30	11.60	2.15	-56.35	-13.00	43.35	V
5922.00	-58.21	6.10	10.76	2.15	-55.70	-13.00	42.70	V
6781.50	-54.42	6.40	10.36	2.15	-52.61	-13.00	39.61	Н
7612.50	-54.32	6.60	10.32	2.15	-52.75	-13.00	39.75	Н
8466.50	-52.47	8.02	11.30	2.15	-51.34	-13.00	38.34	Н





WCDMA BAND IV Mode Channel 1312/1712.4MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3426.50	-62.57	3.26	10.05	-55.78	-13.00	42.78	V
10297.00	-59.02	10.54	11.90	-57.66	-13.00	44.66	Н
11999.50	-57.99	11.96	13.10	-56.85	-13.00	43.85	Н
13693.00	-53.33	13.03	12.20	-54.16	-13.00	41.16	Н
15433.00	-54.65	14.95	15.47	-54.13	-13.00	41.13	Н
17153.00	-45.99	19.99	13.45	-52.53	-13.00	39.53	Н

WCDMA BAND IV Mode Channel 1412/1732.4MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3462.50	-63.19	3.85	10.10	-56.94	-13.00	43.94	Н
10437.00	-58.12	10.53	11.96	-56.69	-13.00	43.69	V
12152.00	-57.09	12.21	13.35	-55.95	-13.00	42.95	Н
13816.00	-52.52	13.04	12.10	-53.46	-13.00	40.46	Н
15557.50	-53.89	16.72	15.60	-55.01	-13.00	42.01	Н
17364.00	-44.50	19.25	13.07	-50.68	-13.00	37.68	Н

WCDMA BAND IV Mode Channel 1513/1752.6MHz

Frequency	P _{Mea}	Path	Antenna	Peak EIRP	Limit	Margin	Polarization
(MHz)	(dBm)	Loss(dB)	Gain(dBi)	(dBm)	(dBm)	(dB)	Polarization
8780.50	-62.02	8.00	11.16	-58.86	-13.00	45.86	V
10499.00	-58.26	10.38	11.90	-56.74	-13.00	43.74	Н
12234.50	-56.76	12.15	13.40	-55.51	-13.00	42.51	V
13991.00	-50.57	14.43	12.19	-52.81	-13.00	39.81	Н
15799.00	-54.11	16.44	15.60	-54.95	-13.00	41.95	Н
17497.00	-44.73	19.73	13.10	-51.36	-13.00	38.36	V

Note: Peak EIRP (dBm) = PMea(dBm) - Path Loss(dB) + Antenna Gain(dBi)





A.3 Frequency Stability

A.3.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of CMW500.

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30 $^{\circ}$ C.
- 3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on mid channel of each band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4. Repeat the above measurements at 10[°]C increments from -30[°]C to +50[°]C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
- 5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6. Subject the EUT to overnight soak at +50℃.
- 7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8. Repeat the above measurements at 10[°]C decrements from +50[°]C to -30[°]C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
- 9. At all temperature levels hold the temperature to +/- 0.5° during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.





A.3.2 Measurement results WCDMA Band II-QPSK

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Fraguanay arrar(nom)
20					Frequency error(ppm)
50				3.24	0.0017
40				3.39	0.0018
30				4.90	0.0026
10	3.91	1850.120	1909.860	4.71	0.0025
0				6.42	0.0034
-10				7.83	0.0042
-20				10.77	0.0057
-30				10.53	0.0056

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	4050 400	4000.000	7.62	0.0041
4.4	20	1850.120	1909.860	11.10	0.0059

WCDMA Band IV-QPSK

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	FL(MHz)	FH(MHz)	Offect/Uz)	Fragueney error(ppm)	
20				Offset(Hz)	Frequency error(ppm)	
50				1.84	0.0011	
40				3.65	0.0021	
30		1710.150	1754.860	5.72	0.0033	
10	3.91			5.57	0.0032	
0				10.50	0.0061	
-10				7.32	0.0042	
-20				10.81	0.0062	
-30				9.14	0.0053	

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.150	1754.860	11.26	0.0065
4.4				12.25	0.0071





WCDMA Band V-QPSK

Frequency Error vs Temperature

Temperature(℃)	Voltage(V)	FL(MHz)	FH(MHz)	Offect/Uz)	Frequency error(ppm)
20				Offset(Hz)	Frequency enor(ppm)
50				1.43	0.0017
40				4.36	0.0052
30		824.120	848.880	3.10	0.0037
10	3.91			6.29	0.0075
0				6.33	0.0076
-10				4.03	0.0048
-20				5.93	0.0071
-30				3.35	0.0040

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.120	848.880	3.91	0.0047
4.4	20			4.99	0.0060





A.4 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages. The measurement method is from ANSI C63.26:

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.

b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set \ge 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.

d) Set the detection mode to peak, and the trace mode to max-hold.



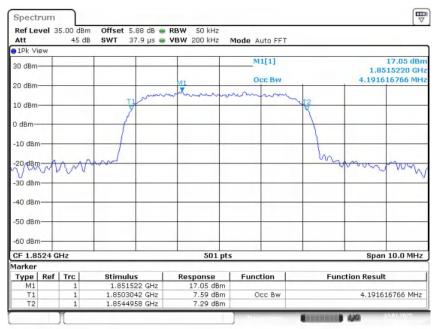


WCDMA Band II (99%)-QPSK

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
1852.4	4.192
1880	4.192
1907.6	4.172

WCDMA Band II (99%)

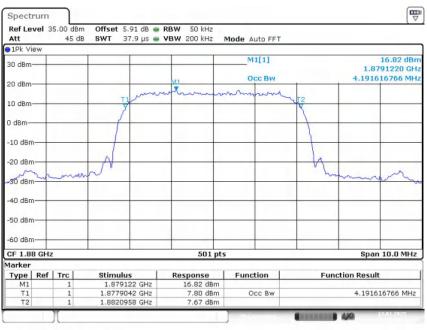
Channel 9262-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:41:43



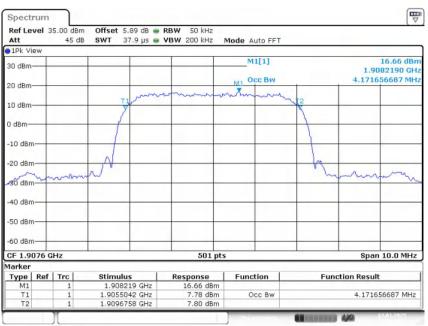




Channel 9400-Occupied Bandwidth (99% BW)

Date: 13.JAN.2025 10:42:44

Channel 9538-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:43:45



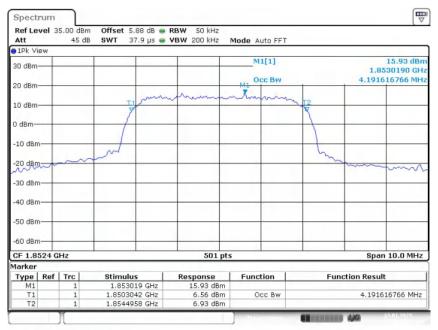


WCDMA Band II (99%)-16QAM

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
1852.4	4.192
1880	4.192
1907.6	4.192

WCDMA Band II (99%)

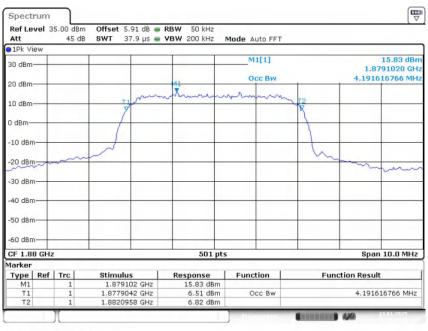
Channel 9262-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:46:05



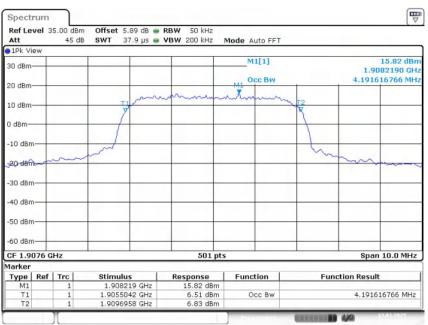




Channel 9400-Occupied Bandwidth (99% BW)

Date: 13.JAN.2025 10:48:08

Channel 9538-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:50:11



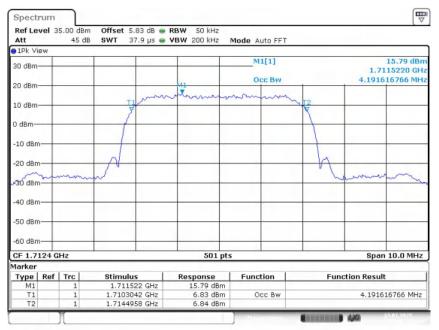


WCDMA Band IV (99%)-QPSK

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
1712.4	4.192
1732.4	4.172
1752.6	4.172

WCDMA Band IV (99%)

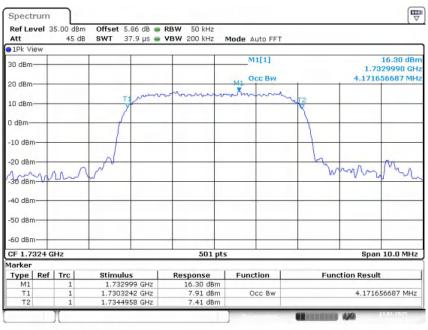
Channel 1312-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:51:54



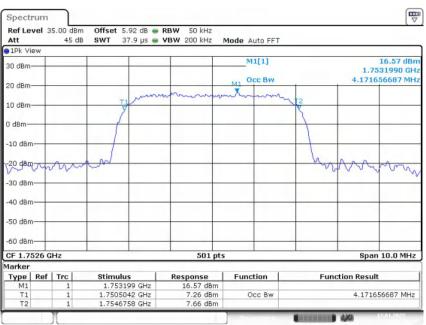




Channel 1412-Occupied Bandwidth (99% BW)

Date: 13.JAN.2025 10:52:56

Channel 1513-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:53:58



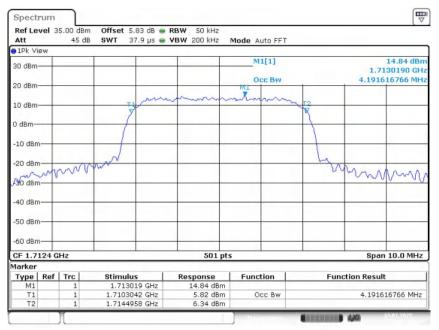


WCDMA Band IV (99%)-16QAM

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
1712.4	4.192
1732.4	4.192
1752.6	4.192

WCDMA Band IV (99%)

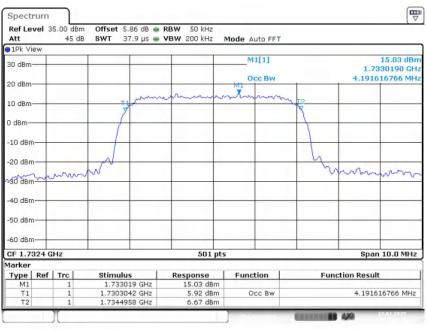
Channel 1312-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 10:56:15



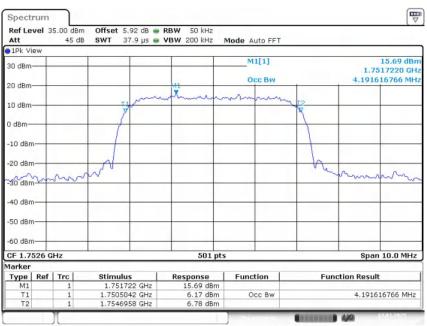




Channel 1412-Occupied Bandwidth (99% BW)

Date: 13.JAN.2025 10:58:18

Channel 1513-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 11:00:20



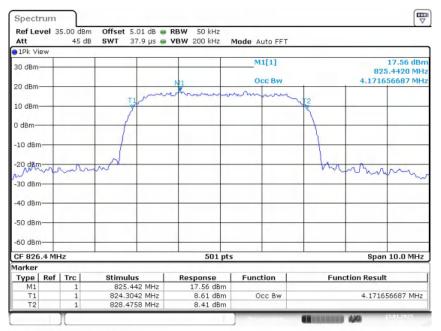


WCDMA Band V (99%)-QPSK

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
826.4	4.172
836.6	4.152
846.6	4.172

WCDMA Band V (99%)

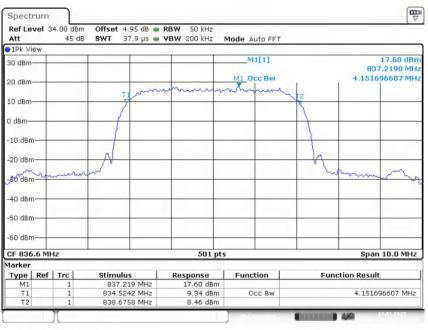
Channel 4132-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 11:55:56



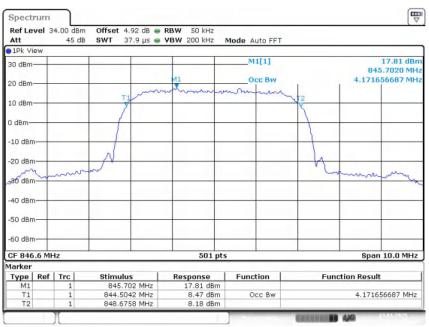




Channel 4183-Occupied Bandwidth (99% BW)

Date: 13.JAN.2025 11:56:58

Channel 4233-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 11:57:59



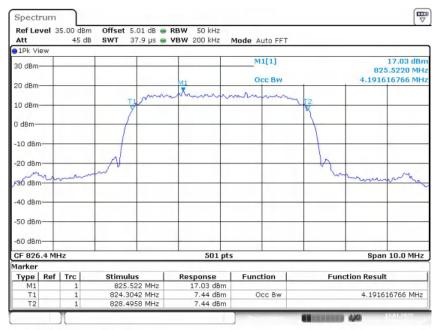


WCDMA Band V (99%)-16QAM

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
826.4	4.192
836.6	4.192
846.6	4.172

WCDMA Band V (99%)

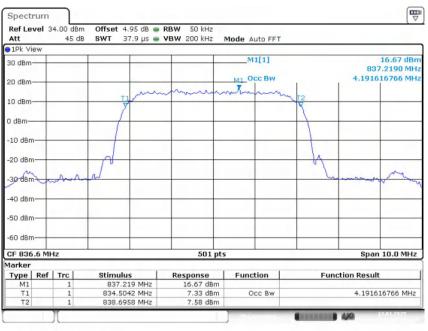
Channel 4132-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 12:00:14



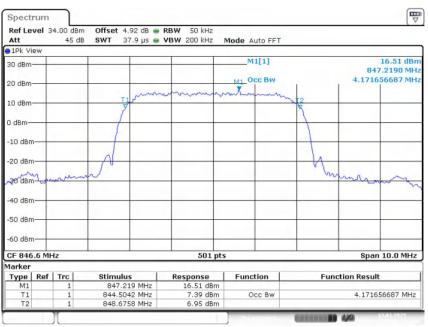




Channel 4183-Occupied Bandwidth (99% BW)

Date: 13.JAN.2025 12:02:17

Channel 4233-Occupied Bandwidth (99% BW)



Date: 13.JAN.2025 12:04:19





A.5 Emission Bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The measurement method is from ANSI C63.26:

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.

b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\ge 3 \times RBW$.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.

d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "-X dB" requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.

e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.





WCDMA Band II (-26dBc)-QPSK

Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1852.4	4.718
1880	4.703
1907.6	4.718

WCDMA Band II (-26dBc)

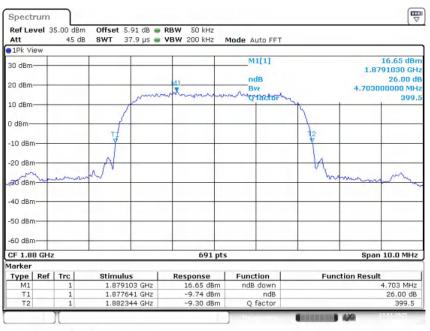
Channel 9262-Emission Bandwidth (-26dBc BW)

Ref Le	vel 3	5.00 dBm 45 dB			Mode Auto FFT				
1Pk Vi	ew	+5 UE	5 5W1 57.5 45	VDW 200 KH2 1	HOUE AUTO FFT				
30 dBm	+					16.80 dBr 1.8530080 GH			
20 dBm	+	_		monorman	M1_ndB		26.00 di 4.718000000 MH		
10 dBm	-		1 m	01 104 101 000	Q Tactor V		392.		
0 dBm—	+		-1						
-10 dBm	+		1			1 to			
-20-dBri	m	\sim	100			~~~	mon		
-30 dBm	+					-			
-40 dBm	+								
-50 dBm	+	_				_			
-60 dBm	+	_				-			
CF 1.8	524 G	Hz		691 pts			Span 10.0 MHz		
Marker									
Туре	Ref		Stimulus	Response	Function	Fune	ction Result		
M1	_	1	1.853008 GHz	16.80 dBm	ndB down		4.718 MHz		
T1 T2		1	1.850041 GHz 1.854759 GHz	-9.01 dBm -9.50 dBm	ndB Q factor		26.00 dB 392.8		

Date: 13.JAN.2025 11:02:19



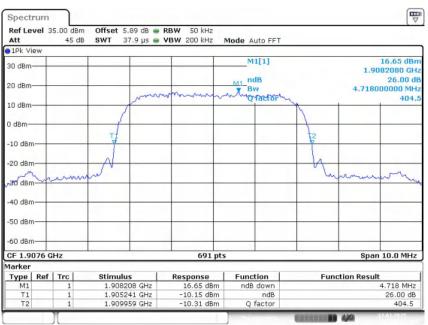




Channel 9400-Emission Bandwidth (-26dBc BW)

Date: 13.JAN.2025 11:03:21

Channel 9538-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:04:22



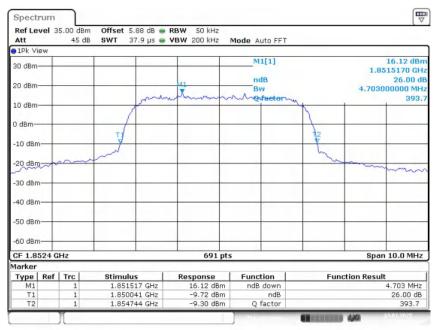


WCDMA Band II (-26dBc)-16QAM

Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1852.4	4.703
1880	4.718
1907.6	4.674

WCDMA Band II (-26dBc)

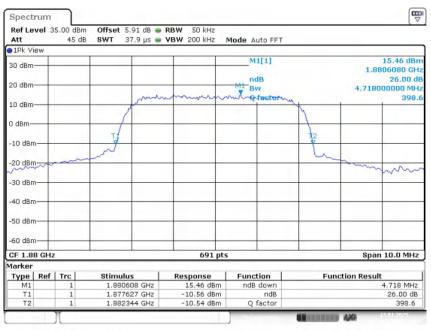
Channel 9262-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:06:39



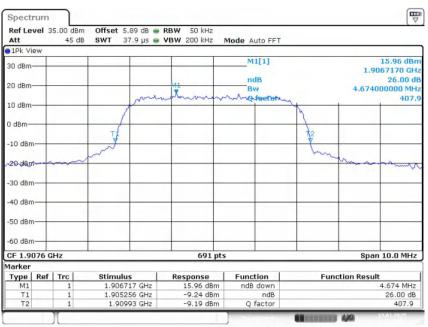




Channel 9400-Emission Bandwidth (-26dBc BW)

Date: 13.JAN.2025 11:08:42

Channel 9538-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:10:45



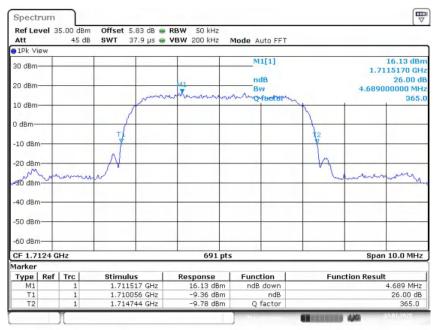


WCDMA Band IV (-26dBc)-QPSK

Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1712.4	4.689
1732.4	4.689
1752.6	4.703

WCDMA Band IV (-26dBc)

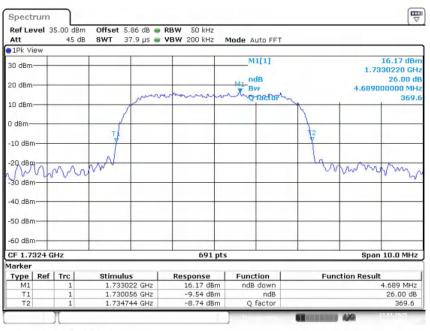
Channel 1312-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:12:29



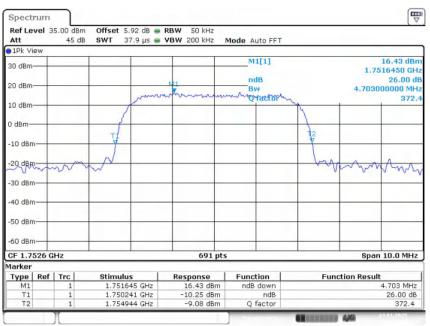




Channel 1412-Emission Bandwidth (-26dBc BW)

Date: 13.JAN.2025 11:13:30

Channel 1513-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:14:31



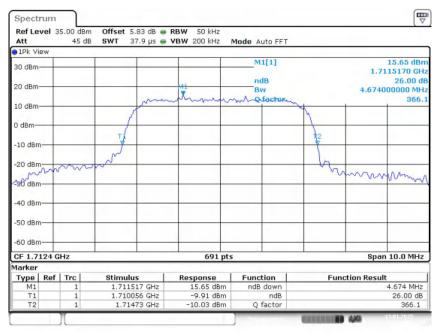


WCDMA Band IV (-26dBc)-16QAM

Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1712.4	4.674
1732.4	4.689
1752.6	4.689

WCDMA Band IV (-26dBc)

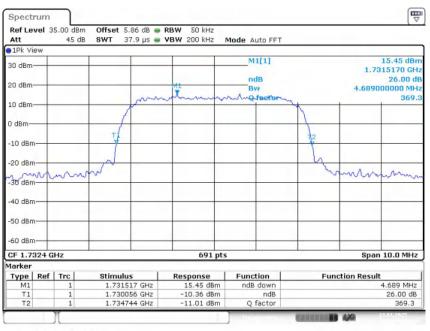
Channel 1312-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:16:49



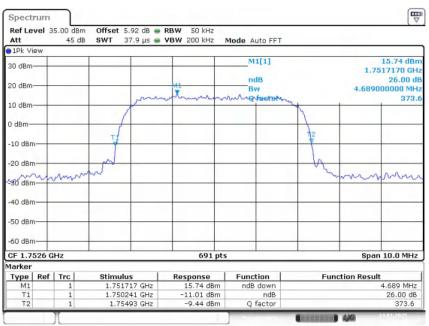




Channel 1412-Emission Bandwidth (-26dBc BW)

Date: 13.JAN.2025 11:18:52

Channel 1513-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 11:20:54



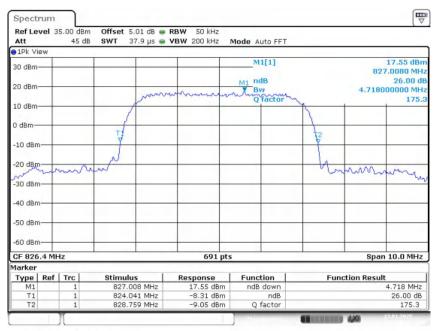


WCDMA Band V (-26dBc)-QPSK

Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
826.4	4.718
836.6	4.689
846.6	4.703

WCDMA Band V (-26dBc)

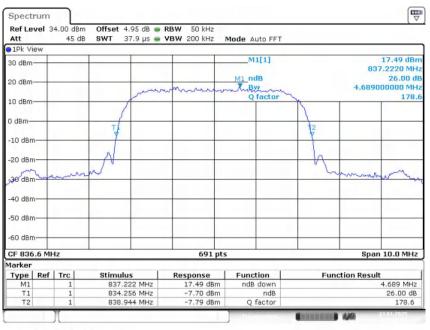
Channel 4132-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 12:06:22



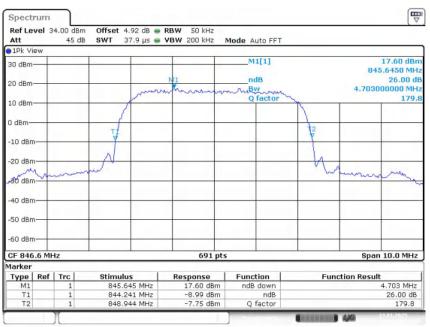




Channel 4183-Emission Bandwidth (-26dBc BW)

Date: 13.JAN.2025 12:07:23

Channel 4233-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 12:08:25



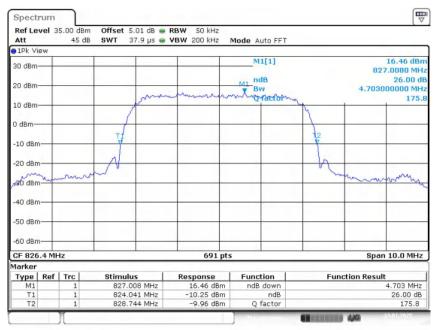


WCDMA Band V (-26dBc)-16QAM

Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
826.4	4.703
836.6	4.674
846.6	4.674

WCDMA Band V (-26dBc)

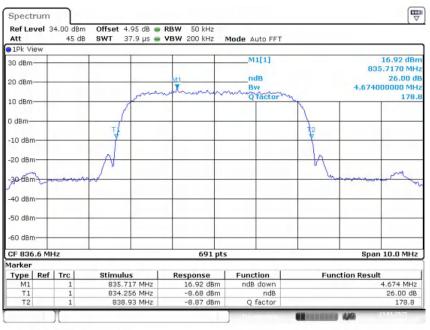
Channel 4132-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 12:10:39



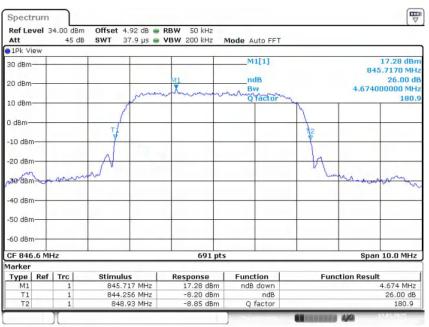




Channel 4183-Emission Bandwidth (-26dBc BW)

Date: 13.JAN.2025 12:12:42

Channel 4233-Emission Bandwidth (-26dBc BW)



Date: 13.JAN.2025 12:14:45





A.6 Band Edge Compliance

A.6.1 Measurement limit

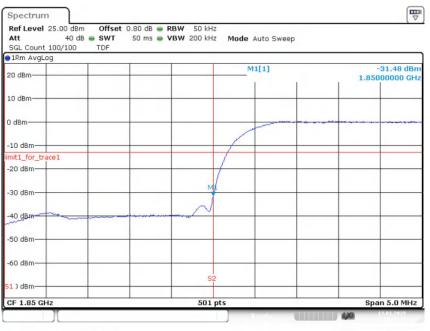
Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.





A.6.2 Measurement result WCDMA Band II-QPSK Channel 9262



Date: 13.JAN.2025 11:23:22

Channel 9538

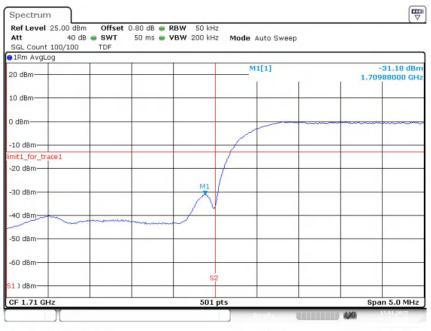


Date: 13.JAN.2025 11:24:54





WCDMA Band IV-QPSK Channel 1312



Date: 13.JAN.2025 11:26:29

Channel 1513

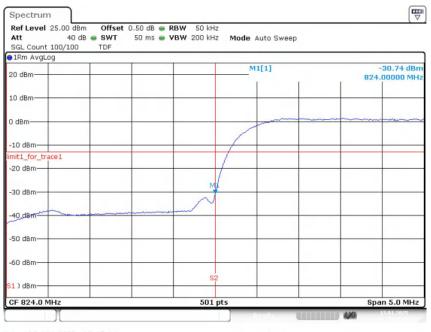


Date: 13.JAN.2025 11:28:01





WCDMA Band V-QPSK Channel 4132



Date: 13.JAN.2025 12:17:12

Channel 4233



Date: 13.JAN.2025 12:18:44





A.7 Conducted Spurious Emission

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:

(a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

- 2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
- 3. The number of sweep points of spectrum analyzer is greater than 2×span/RBW.

A. 7.2 Measurement Limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that 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.



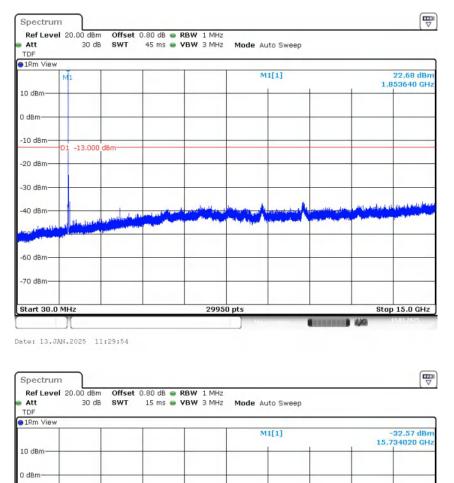


A.7.3 Measurement result

WCDMA Band II-QPSK

Channel 9262:

NOTE: peak above the limit line is the carrier frequency.



10010 pts

Date: 13.JAN.2025 11:30:16

-10 dBm-

-20 dBm-

-50 dBm--60 dBm--70 dBm-

Start 15.0 GHz

D1 -13.000 dBm

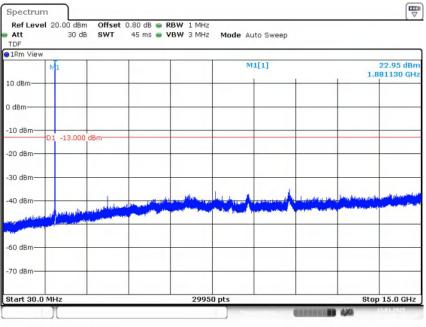
Stop 20.0 GHz

B 440





Channel 9400: NOTE: peak above the limit line is the carrier frequency.



Date: 13.JAN.2025 11:31:24

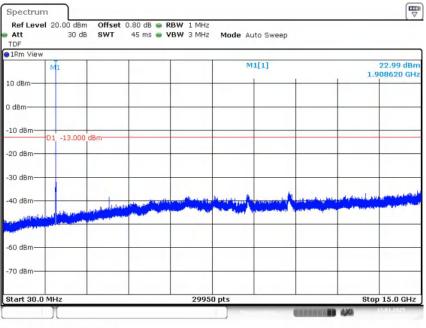
Ref Level Att TDF	30 de		0.80 dB 👄 F 15 ms 👄 V	BW 3 MHz	Mode Au	ito Sweep		
1Rm View					м	1[1]		31.89 dBr 48500 GH
10 dBm								
) dBm								
10 dBm-	01 -13.000	dBm						
20 dBm-								
-30 dBm	M1							
+U dbm	the states		-	is interesting of the second		week kinger	a haran tataat	the ball
50 dBm								
60 dBm								
-70 dBm								

Date: 13.JAN.2025 11:31:45





Channel 9538: NOTE: peak above the limit line is the carrier frequency.



Date: 13.JAN.2025 11:32:56

Att	20.00 dBr 30 di		0.80 dB 👄 F 15 ms 👄 V	BW 3 MHz	Mode Au	ito Sweep		
1Rm View					м	1[1]		-32.92 dBr /64990 GH
10 dBm								
0 dBm	_							
-10 dBm	D1 -13.000	dBm					 	_
-20 dBm	_				-			
-30 dBm	M1						_	
40'asm	and Annual		inter things have	delater manifest				
50 dBm								
60 dBm					_			
70 dBm					_			
Start 15.0				10010				20.0 GHz

Date: 13.JAN.2025 11:33:18

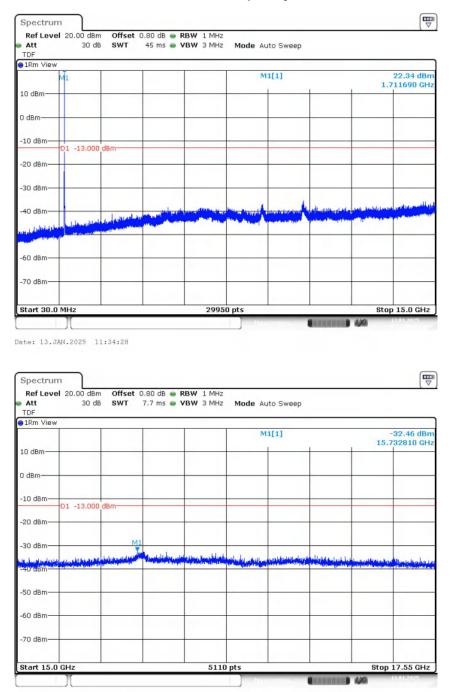




WCDMA Band IV-QPSK

Channel 1312:

NOTE: peak above the limit line is the carrier frequency.

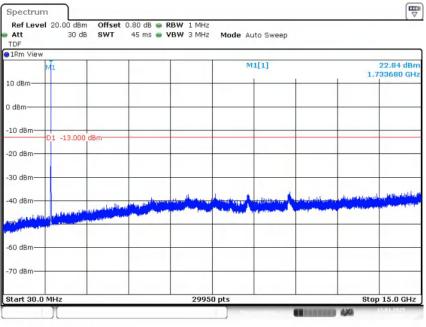


Date: 13.JAN.2025 11:34:50





Channel 1412: NOTE: peak above the limit line is the carrier frequency.



Date: 13.JAN.2025 11:36:00

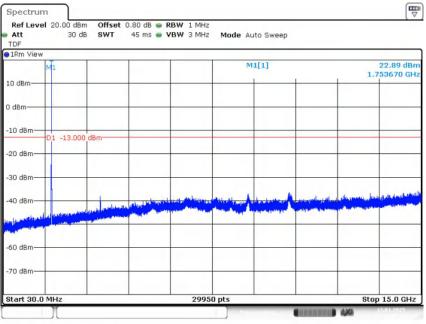
Att TDF 1Rm View	20.00 dBm 30 dB		0.80 dB 👄 R 7.7 ms 👄 V		Mode Au	ito Sweep		
TKUL VIEW					м	1[1]		32.50 dBr 50780 GH
10 dBm								
) dBm								
-10 dBm—	D1 -13.000	dBm					 	
-20 dBm								
-30 dBm		N	1	a the grad to be to a				
40 dBm		an a						ahis of him is
50 dBm—								
60 dBm—								
70 dBm—								
Start 15.0				5110	ntc		Eton	17.55 GHz

Date: 13.JAN.2025 11:36:22





Channel 1513: NOTE: peak above the limit line is the carrier frequency.



Date: 13.JAN.2025 11:37:32

Att TDF 1Rm View	el 20.00 dBn 30 dE		0.80 dB 👄 7.7 ms 👄	VBW 3 MHz	Mode Au	ito Sweep			
IKM VIEW					м	1[1]			32.58 dBr 50280 GH
10 dBm									
0 dBm									
-10 dBm	-D1 -13.000	dBm							
-20 dBm—									
-30 dBm			M						
40 d8m-4							folder all bad as a	i i i i i i i i i i i i i i i i i i i i	and a faile die
50 dBm—									
60 dBm—					_				
-70 dBm									
Start 15.0				5110					17.55 GHz

Date: 13.JAN.2025 11:37:54

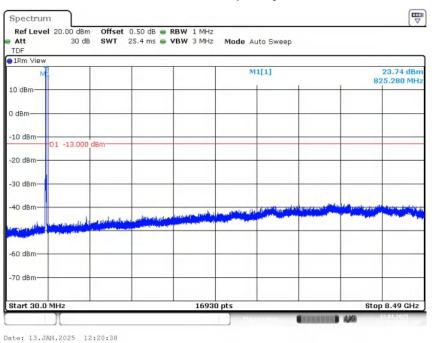




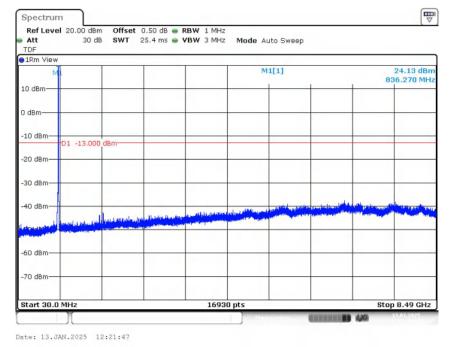
WCDMA Band V-QPSK

Channel 4132:

NOTE: peak above the limit line is the carrier frequency.



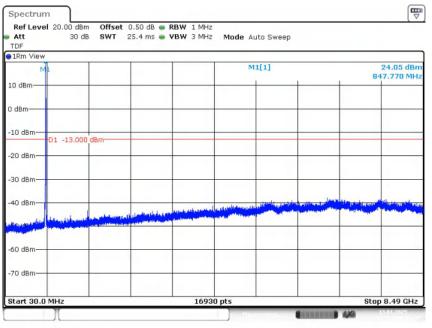
Channel 4183: NOTE: peak above the limit line is the carrier frequency.







Channel 4233: NOTE: peak above the limit line is the carrier frequency.



Date: 13.JAN.2025 12:22:56





A.8 Peak-to-Average Power Ratio

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum PAPR level associated with a probability of 0.1%.

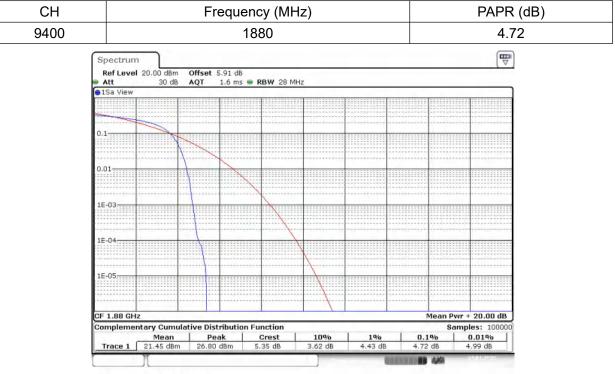
WCDMA Band II-QPSK

Measurement result

СН	Frequency (MHz)	PAPR (dB)
9400	1880	2.78

WCDMA Band II-16QAM

Measurement result



Date: 13.JAN.2025 11:41:36





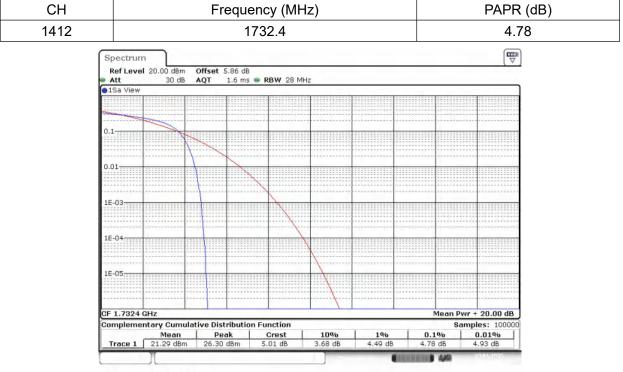
WCDMA Band IV-QPSK

Measurement result

СН	Frequency (MHz)	PAPR (dB)
1412	1732.4	3.13

WCDMA Band IV-16QAM

Measurement result



Date: 13.JAN.2025 11:45:29





Annex B: Accreditation Certificate



END OF REPORT