

BUREAU
VERITAS

Test Report No.: PSU-NQN2509250114RF07



Certificate #6613.01

VARIANT FCC TEST REPORT

(PART 24)

Applicant:	Honeywell International Inc
Address:	9680 Old Bailes Road, Fort Mill, SC 29707 United States

Manufacturer or Supplier:	Honeywell International Inc
Address:	9680 Old Bailes Road, Fort Mill, SC 29707 United States
Product:	Mobile Computer
Brand Name:	Honeywell
Model Name:	CT45P-L1N-2
FCC ID	HD5-CT45PL1N2
Date of tests	Oct, 09, 2025 ~ Nov. 18, 2025

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

☒ **FCC PART 24, Subpart E**
☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D**

☒ **ANSI/TIA/EIA-603-E**
☒ **ANSI C63.26-2015**

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

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Nov. 18, 2025	Date: Nov. 18, 2025

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FREQUENCY STABILITY	215
TEST RESULT	215



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P21080006RF16	Original release	Sep. 01, 2021
PSU-NQN2509250114RF07	Based on the original report W7L-P21080006RF16(FCC ID: HD5-CT45PL1N2). The new product add alternate parts, the electrical specs of the alternate part is equivalent to the current part. This update the SW version, report retest power and RF, verify RSE worst case. So this report updates power, RF and RSE worst case(LTE B25 10MHz_CH26640), other data please refer to original report.	Nov. 18, 2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	Test lab*
§2.1046	Conducted Output Power	Compliance	A
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance	A
§2.1055 §24.235	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§24.232(d)	Peak to average ratio*	Compliance	A
§24.238(a)(b)	Band Edge Measurements	Compliance	A
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	Compliance	A
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance	A

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

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

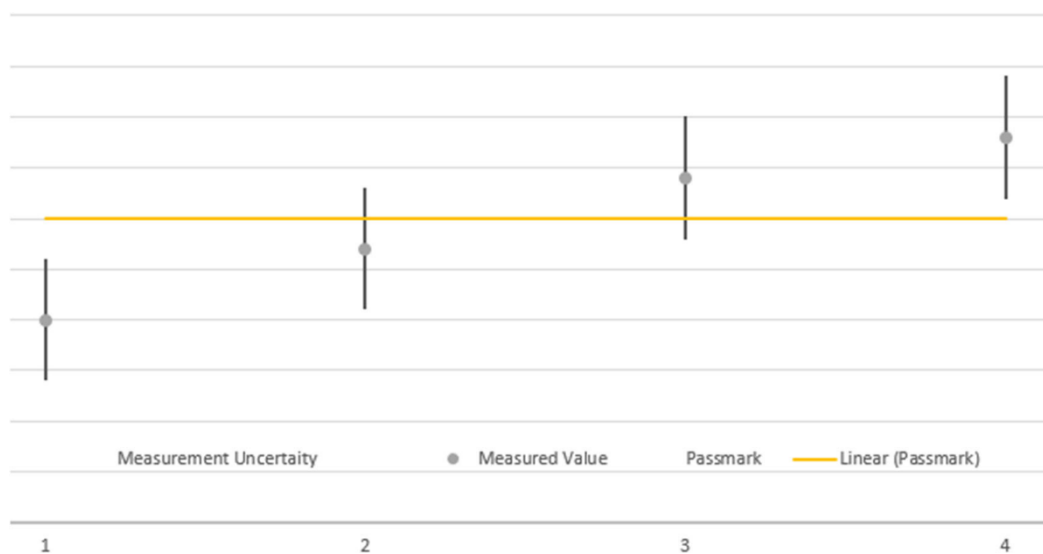


1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

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



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

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

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

**1.2 TEST SITE AND INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,25	Aug.28,27
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.24,22	Nov.23,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Aug.20,25	Aug.19,28
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Jul.04,25	Jul.03,27
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.20,25	Aug.19,27
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Mar.22,25	Mar.21,27
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.30,25	Aug.29,27
Hygrothermograph	DELI	20210528	SZ014	Mar.18,25	Mar.17,27
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	W12.14	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

NOTE:

1. The calibration interval of the above test instruments is 12/24/36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Mobile Computer	
BRAND NAME*	Honeywell	
MODEL NAME*	CT45P-L1N-2	
NOMINAL VOLTAGE*	5Vdc (adapter) 3.85Vdc (Lithium-ion cell, battery)	
MODULATION TYPE*	GSM/GPRS: GMSK EDGE: 8PSK WCDMA: BPSK,QPSK LTE Band 2/25: QPSK, 16QAM, 64QAM	
FREQUENCY RANGE	GPRS, EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz



MAX. EIRP POWER	GSM/GPRS	1330.45mW
	EDGE	562.34mW
	WCDMA	276.69mW
	LTE Band 2 Channel Bandwidth: 1.4MHz	244.34mW
	LTE Band 2 Channel Bandwidth: 3MHz	249.46mW
	LTE Band 2 Channel Bandwidth: 5MHz	243.22mW
	LTE Band 2 Channel Bandwidth: 10MHz	247.17mW
	LTE Band 2 Channel Bandwidth: 15MHz	244.91mW
	LTE Band 2 Channel Bandwidth: 20MHz	251.19mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	216.27mW
	LTE Band 25 Channel Bandwidth: 3MHz	219.79mW
	LTE Band 25 Channel Bandwidth: 5MHz	213.30mW
	LTE Band 25 Channel Bandwidth: 10MHz	216.77mW
	LTE Band 25 Channel Bandwidth: 15MHz	219.28mW
	LTE Band 25 Channel Bandwidth: 20MHz	220.80mW
EMISSION DESIGNATOR	GPRS	246KGXW
	EDGE	252KG7W
	WCDMA	4M15F9W
	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
		64QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
		64QAM: 4M50W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M97G7D
		16QAM: 8M96W7D



	LTE Band 25 Channel Bandwidth: 15MHz	64QAM: 8M97W7D
		QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 25 Channel Bandwidth: 20MHz	64QAM: 13M5W7D
		QPSK: 18M0G7D
		16QAM: 18M0W7D
ANTENNA GAIN*	☒ Provided by client	
	GSM1900	2.67dBi
	WCDMA II	2.67dBi
	LTE B2	2.67dBi
	LTE B25	2.67dBi
ANTENNA TYPE*	PIFA Antenna	
HW VERSION*	V1.0	
SW VERSION*	OS.11.003-HON.11.003	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	USB cable: shielded without ferrite, 1.25 meter Earphone cable: unshielded without ferrite, 1.27 meter	
EXTREME TEMPERATURE*	-10-55 °C	
EXTREME VOLTAGE*	3.4V- 4.4V	

NOTE:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/1RX
WCDMA	1TX/1RX
LTE	1TX/1RX

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



5. This product includes the following three SKU which hardware is exactly same, the difference is described as following, Sample 1 was full test, sample 2 verify the worst case, check worst case Radiated emission:

SAMPLE	EUT CONFIGURATION INFORMATION
1	SKU ID:CT45-L1N-37D120G ,Assembled Scanner Imager: 7-S0703
2	SKU ID:CT45-L1N-38D120G ,Assembled Scanner Imager: 8 - N6803/S0803
3	SKU ID: CT45-L1N-37D220G , Assembled with Scanner: 7-S0703 for China Only with Android non-GMS

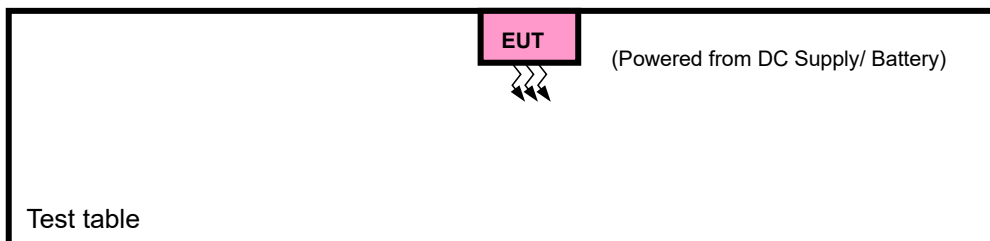
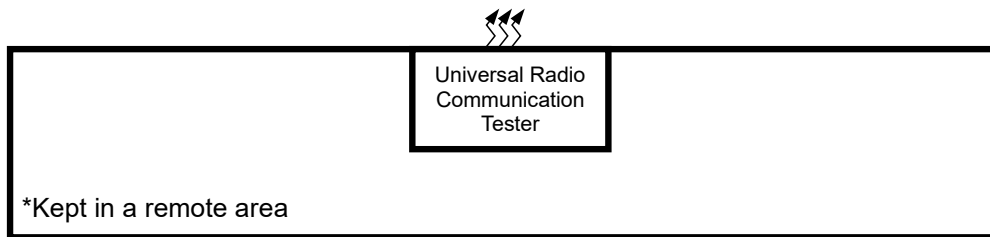
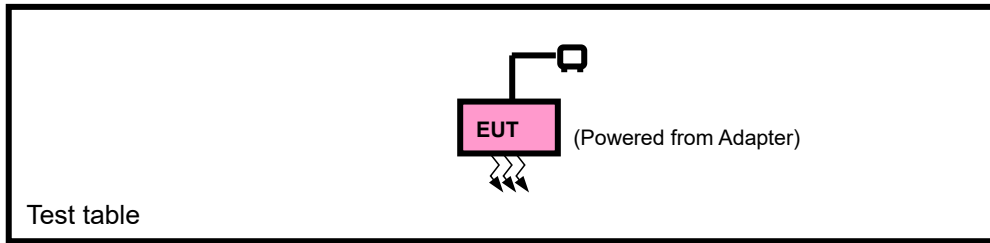
6. List of Accessory:

ACCESSORIES	BRAND	MODEL	SPECIFICATION
Battery	Honeywell	CT50-BTSC	Capacity : 3.85vdc 4020mAh
AC Adapter	HONOR	ADS-12B-06 05010E	I/P:100-240Vac, 0.3A O/P: 5Vdc, 2A
USB Cable	Honeywell	CT40-SN	Shielded, 1.25meter
Earphone	VIVO	NA	Shielded, 1.27meter
LCD Panel	CASIL	CTM10801920T01	5.0" FHD(1928*1080)



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2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: Shielded, Detachable 1.25m;
2	DC Line: Unshielded, Detachable 1.0m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in EIRP and radiated emission was found when positioned on X-plane for GSM/EDGE/ LTE. Following channel(s) was (were) selected for the final test as listed below:

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

GSM MODE				
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	512 to 810	512, 661, 810	GSM,EDGE
B	FREQUENCY STABILITY	512 to 810	512, 661, 810	GSM,EDGE
A	OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GSM,EDGE
A	PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM,EDGE
A	BAND EDGE	512 to 810	512, 810	GSM,EDGE
A	CONDUCTED EMISSION	512 to 810	512, 661, 810	GSM,EDGE
A	RADIATED EMISSION	512 to 810	512, 661, 810	GSM,EDGE



WCDMA				
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
B	FREQUENCY STABILITY	9262 to 9538	9262, 9400, 9538	WCDMA
A	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
A	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
A	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
A	CONDCUDED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA
A	RADIATED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA

LTE BAND 2 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 25



LTE BAND 25 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
B	FREQUENCY STABILITY	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB offset
A	PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 25 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 50 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
			26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 5 RB offset 6 RB / 0 RB offset
		26055 to 26675	26055	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
			26675	3MHz	QPSK, 16QAM, 64QAM	1 RB / 14 RB offset 15 RB / 0 RB offset
		26065 to 26665	26065	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 25 RB / 0 RB offset
			26665	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB offset 25 RB / 0 RB offset
		26090 to 26640	26090	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 50 RB / 0 RB offset
			26640	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB offset 50 RB / 0 RB offset



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		26115 to 26615	26115	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
			26615	15MHz	QPSK,16QAM, 64QAM	1 RB / 74 RB offset 75 RB / 0 RB offset
		26140 to 26590	26140	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
			26590	20MHz	QPSK,16QAM, 64QAM	1 RB / 99 RB offset 100 RB / 0 RB offset
A	CONDCUDETED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB offset
		26090 to 26640	26090,26365,26640	10MHz	QPSK	1 RB / 0 RB offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB offset

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

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.4V/ 3.85V/ 4.4V By DC Source	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5V By Adapter	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	Hanwen Xu
CONDCUDETED EMISSION	23deg. C, 70%RH	DC 5V By Adapter	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 5V By Adapter	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5V By Adapter	Hanwen Xu



2.5 EUT OPERATING CONDITIONS

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

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

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

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

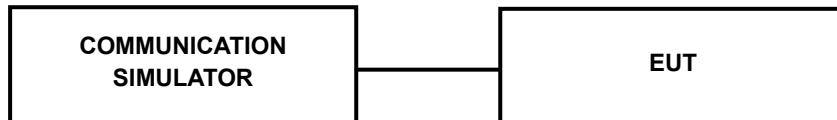
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm) :

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM	28.39	28.39	28.53
GPRS 1Tx Slot	28.42	28.43	28.57
GPRS 2Tx Slot	27.12	27.07	27.13
GPRS 3Tx Slot	25.02	24.94	25.09
GPRS 4Tx Slot	22.97	22.84	22.98
EDGE 1Tx Slot	24.78	24.80	24.83
EDGE 2Tx Slot	22.37	22.31	22.46
EDGE 3Tx Slot	20.08	20.01	20.14
EDGE 4Tx Slot	19.15	19.25	19.28

Band	WCDMA II		
TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6
RMC 12.2K	21.75	21.69	21.71
HSDPA Subtest-1	20.50	20.42	20.45
HSDPA Subtest-2	20.55	20.49	20.52
HSDPA Subtest-3	19.95	19.89	19.92
HSDPA Subtest-4	20.03	20.00	20.01
DC-HSDPA Subtest-1	20.45	20.43	20.48
DC-HSDPA Subtest-2	20.52	20.53	20.50
DC-HSDPA Subtest-3	19.91	19.86	19.95
DC-HSDPA Subtest-4	20.00	20.02	19.98
HSUPA Subtest-1	20.44	20.42	20.47
HSUPA Subtest-2	19.47	19.45	19.46
HSUPA Subtest-3	20.46	20.44	20.43
HSUPA Subtest-4	19.46	19.42	19.44
HSUPA Subtest-5	20.44	20.45	20.48



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20	QPSK	1	0	21.26	21.19	21.33
		1	50	21.18	21.16	21.21
		1	99	21.09	21.11	21.18
		50	0	20.28	20.31	20.38
		50	25	20.17	20.09	20.35
		50	50	20.06	20.06	20.18
		100	0	20.12	20.16	20.36
	16QAM	1	0	19.13	20.12	20.24
		1	50	20.35	20.31	20.47
		1	99	20.10	20.01	19.68
		50	0	19.15	19.05	19.31
		50	25	19.24	19.13	19.25
		50	50	19.10	19.02	19.03
		100	0	19.21	19.08	19.24
	64QAM	1	0	18.01	19.21	19.44
		1	50	19.27	19.23	19.38
		1	99	18.93	19.01	19.24
		50	0	18.21	18.00	18.35
		50	25	18.11	18.07	18.16
		50	50	18.04	18.08	18.05
		100	0	18.15	18.00	18.29



LTE Band 2						
BW [MHz]	Modulation	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15	QPSK	1	0	21.12	21.16	21.22
		1	37	21.11	21.10	21.06
		1	74	21.08	21.02	21.14
		36	0	20.14	20.17	20.30
		36	19	20.09	20.07	20.25
		36	39	19.92	19.99	20.16
		75	0	20.05	20.07	20.29
	16QAM	1	0	19.02	20.02	20.19
		1	37	20.29	20.19	20.46
		1	74	20.08	19.93	19.62
		36	0	19.13	18.95	19.29
		36	19	19.12	18.98	19.21
		36	39	18.99	18.96	18.89
		75	0	19.12	18.99	19.10
	64QAM	1	0	17.97	19.09	19.34
		1	37	19.22	19.11	19.24
		1	74	18.88	18.95	19.20
		36	0	18.09	17.97	18.33
		36	19	18.10	18.00	18.08
		36	39	18.02	17.97	18.02
		75	0	18.14	17.89	18.18



LTE Band 2						
BW [MHz]	Modulation	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10	QPSK	1	0	21.20	21.12	21.26
		1	24	21.08	21.01	21.06
		1	49	21.03	21.07	21.09
		25	0	20.15	20.26	20.29
		25	12	20.05	20.02	20.33
		25	25	19.99	19.94	20.12
		50	0	19.98	20.01	20.24
	16QAM	1	0	18.99	20.03	20.21
		1	24	20.20	20.18	20.38
		1	49	20.08	19.91	19.65
		25	0	19.14	19.04	19.30
		25	12	19.09	19.05	19.18
		25	25	18.99	18.98	18.91
		50	0	19.08	18.96	19.11
	64QAM	1	0	17.93	19.13	19.40
		1	24	19.12	19.10	19.36
		1	49	18.78	18.93	19.23
		25	0	18.20	17.94	18.34
		25	12	18.03	17.96	18.09
		25	25	17.92	18.07	17.91
		50	0	18.12	17.89	18.18



LTE Band 2						
BW [MHz]	Modulation	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5	QPSK	1	0	21.19	21.17	21.19
		1	12	21.17	21.15	21.19
		1	24	21.03	21.01	21.10
		12	0	20.13	20.26	20.29
		12	6	20.15	19.97	20.27
		12	13	19.99	19.93	20.06
		25	0	20.03	20.13	20.23
	16QAM	1	0	19.07	19.99	20.16
		1	12	20.31	20.27	20.38
		1	24	20.04	19.97	19.60
		12	0	19.12	19.00	19.28
		12	6	19.15	19.06	19.16
		12	13	18.96	18.97	18.97
		25	0	19.11	19.00	19.19
	64QAM	1	0	17.99	19.16	19.41
		1	12	19.19	19.13	19.34
		1	24	18.82	18.96	19.11
		12	0	18.13	17.93	18.23
		12	6	17.98	18.01	18.01
		12	13	17.92	18.07	18.02
		25	0	18.03	17.99	18.27



LTE Band 2						
BW [MHz]	Modulation	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3	QPSK	1	0	21.16	21.11	21.30
		1	7	21.04	21.11	21.12
		1	14	21.05	21.10	21.12
		8	0	20.14	20.21	20.28
		8	3	20.14	20.01	20.32
		8	7	19.97	19.95	20.11
		15	0	19.99	20.03	20.36
	16QAM	1	0	19.02	20.06	20.14
		1	7	20.21	20.19	20.45
		1	14	20.08	19.96	19.60
		8	0	19.13	18.92	19.16
		8	3	19.19	19.07	19.10
		8	7	19.00	18.92	18.94
		15	0	19.19	19.05	19.15
	64QAM	1	0	17.93	19.13	19.43
		1	7	19.19	19.19	19.32
		1	14	18.88	18.87	19.16
		8	0	18.14	17.91	18.33
		8	3	18.10	17.94	18.13
		8	7	18.01	18.04	17.91
		15	0	18.13	17.88	18.15



LTE Band 2						
BW [MHz]	Modulation	Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4	QPSK	1	0	21.16	21.16	21.21
		1	2	21.05	21.04	21.13
		1	5	21.04	21.06	21.09
		3	0	21.05	20.98	21.13
		3	1	20.98	20.86	21.14
		3	3	20.76	20.74	20.90
		6	0	19.97	20.14	20.35
	16QAM	1	0	19.00	20.04	20.23
		1	2	20.32	20.26	20.38
		1	5	20.09	19.97	19.57
		3	0	19.87	19.86	20.08
		3	1	19.97	19.84	19.99
		3	3	19.88	19.80	19.81
		6	0	19.18	18.99	19.22
	64QAM	1	0	17.88	19.11	19.37
		1	2	19.17	19.17	19.23
		1	5	18.89	18.88	19.17
		3	0	18.89	18.69	19.09
		3	1	18.79	18.83	18.85
		3	3	18.72	18.84	18.86
		6	0	18.08	17.97	18.17



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20	QPSK	1	0	20.35	20.77	20.65
		1	50	20.33	20.68	20.58
		1	99	20.34	20.35	20.11
		50	0	19.62	19.68	19.66
		50	25	19.75	19.77	19.72
		50	50	19.72	19.75	19.59
		100	0	19.67	19.77	19.71
	16QAM	1	0	19.60	19.90	19.83
		1	50	20.10	19.98	19.89
		1	99	19.74	19.55	19.51
		50	0	18.74	18.79	18.62
		50	25	18.79	18.60	18.76
		50	50	18.81	18.76	18.73
		100	0	18.79	18.74	18.57
	64QAM	1	0	18.69	18.89	18.90
		1	50	18.82	18.90	18.94
		1	99	18.60	18.55	18.46
		50	0	17.69	17.74	17.65
		50	25	17.73	17.72	17.67
		50	50	17.75	17.71	17.62
		100	0	17.65	17.77	17.68



LTE Band 25						
BW [MHz]	Modulation	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15	QPSK	1	0	20.31	20.74	20.64
		1	37	20.31	20.67	20.53
		1	74	20.20	20.25	19.97
		36	0	19.52	19.56	19.52
		36	19	19.67	19.63	19.66
		36	39	19.66	19.68	19.58
		75	0	19.54	19.71	19.69
	16QAM	1	0	19.56	19.87	19.72
		1	37	19.96	19.97	19.81
		1	74	19.66	19.40	19.50
		36	0	18.61	18.73	18.54
		36	19	18.71	18.55	18.67
		36	39	18.75	18.61	18.59
		75	0	18.69	18.66	18.43
	64QAM	1	0	18.68	18.77	18.79
		1	37	18.73	18.83	18.89
		1	74	18.52	18.51	18.34
		36	0	17.54	17.62	17.51
		36	19	17.63	17.70	17.58
		36	39	17.70	17.65	17.53
		75	0	17.57	17.67	17.65



LTE Band 25						
BW [MHz]	Modulation	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10	QPSK	1	0	20.33	20.69	20.55
		1	24	20.22	20.66	20.56
		1	49	20.30	20.21	20.07
		25	0	19.56	19.54	19.53
		25	12	19.67	19.76	19.64
		25	25	19.62	19.71	19.53
		50	0	19.59	19.71	19.58
	16QAM	1	0	19.47	19.87	19.71
		1	24	20.05	19.86	19.86
		1	49	19.63	19.49	19.49
		25	0	18.59	18.75	18.56
		25	12	18.66	18.50	18.75
		25	25	18.73	18.67	18.66
		50	0	18.69	18.69	18.49
	64QAM	1	0	18.64	18.85	18.76
		1	24	18.73	18.79	18.89
		1	49	18.45	18.54	18.41
		25	0	17.60	17.61	17.59
		25	12	17.67	17.60	17.65
		25	25	17.73	17.62	17.54
		50	0	17.59	17.71	17.57



LTE Band 25						
BW [MHz]	Modulation	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5	QPSK	1	0	20.28	20.62	20.50
		1	12	20.29	20.59	20.55
		1	24	20.22	20.20	20.07
		12	0	19.49	19.66	19.58
		12	6	19.67	19.65	19.64
		12	13	19.65	19.73	19.48
		25	0	19.53	19.71	19.62
	16QAM	1	0	19.48	19.83	19.70
		1	12	20.02	19.87	19.84
		1	24	19.70	19.53	19.44
		12	0	18.64	18.69	18.52
		12	6	18.71	18.52	18.75
		12	13	18.76	18.63	18.71
		25	0	18.71	18.59	18.54
	64QAM	1	0	18.63	18.82	18.88
		1	12	18.74	18.78	18.81
		1	24	18.45	18.41	18.37
		12	0	17.60	17.67	17.52
		12	6	17.60	17.71	17.55
		12	13	17.67	17.70	17.56
		25	0	17.63	17.63	17.65



LTE Band 25						
BW [MHz]	Modulation	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3	QPSK	1	0	20.32	20.75	20.64
		1	7	20.27	20.62	20.53
		1	14	20.23	20.34	20.07
		8	0	19.58	19.57	19.62
		8	3	19.61	19.65	19.69
		8	7	19.67	19.61	19.54
		15	0	19.65	19.64	19.56
	16QAM	1	0	19.50	19.82	19.73
		1	7	19.97	19.96	19.79
		1	14	19.67	19.52	19.50
		8	0	18.71	18.66	18.59
		8	3	18.76	18.59	18.62
		8	7	18.71	18.70	18.72
		15	0	18.67	18.70	18.48
	64QAM	1	0	18.58	18.79	18.83
		1	7	18.78	18.80	18.92
		1	14	18.51	18.42	18.32
		8	0	17.60	17.64	17.61
		8	3	17.58	17.67	17.56
		8	7	17.73	17.60	17.53
		15	0	17.59	17.73	17.65



LTE Band 25						
BW [MHz]	Modulation	Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4	QPSK	1	0	20.27	20.68	20.59
		1	2	20.31	20.65	20.50
		1	5	20.23	20.33	20.08
		3	0	20.41	20.45	20.36
		3	1	20.56	20.50	20.45
		3	3	20.46	20.46	20.36
		6	0	19.59	19.69	19.60
	16QAM	1	0	19.51	19.87	19.81
		1	2	19.98	19.94	19.74
		1	5	19.60	19.49	19.36
		3	0	19.51	19.52	19.39
		3	1	19.55	19.28	19.48
		3	3	19.62	19.46	19.47
		6	0	18.70	18.62	18.43
	64QAM	1	0	18.60	18.88	18.76
		1	2	18.77	18.77	18.93
		1	5	18.48	18.43	18.32
		3	0	18.47	18.52	18.42
		3	1	18.42	18.50	18.39
		3	3	18.45	18.41	18.37
		6	0	17.60	17.72	17.63



EIRP POWER (dBm)

GSM 1900						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	28.42	2.67	31.09	1285.29	2
661	1880	28.43	2.67	31.10	1288.25	2
810	1909.8	28.57	2.67	31.24	1330.45	2

EDGE 1900						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	24.78	2.67	27.45	555.90	2
661	1880	24.80	2.67	27.47	558.47	2
810	1909.8	24.83	2.67	27.50	562.34	2

WCDMA						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
9262	1852.4	21.75	2.67	24.42	276.69	2
9400	1880	21.69	2.67	24.36	272.90	2
9538	1907.6	21.71	2.67	24.38	274.16	2



LTE Band 2

LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	18700	1860	21.26	2.67	23.93	247.17	2
	18900	1880	21.19	2.67	23.86	243.22	2
	19100	1900	21.33	2.67	24.00	251.19	2
20M-16QAM	18700	1860	20.35	2.67	23.02	200.45	2
	18900	1880	20.31	2.67	22.98	198.61	2
	19100	1900	20.47	2.67	23.14	206.06	2
20M-64QAM	18700	1860	19.27	2.67	21.94	156.31	2
	18900	1880	19.23	2.67	21.90	154.88	2
	19100	1900	19.44	2.67	22.11	162.55	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	18675	1857.5	21.12	2.67	23.79	239.33	2
	18900	1880	21.16	2.67	23.83	241.55	2
	19125	1902.5	21.22	2.67	23.89	244.91	2
15M-16QAM	18675	1857.5	20.29	2.67	22.96	197.70	2
	18900	1880	20.19	2.67	22.86	193.20	2
	19125	1902.5	20.46	2.67	23.13	205.59	2
15M-64QAM	18675	1857.5	19.22	2.67	21.89	154.53	2
	18900	1880	19.11	2.67	21.78	150.66	2
	19125	1902.5	19.34	2.67	22.01	158.85	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	18650	1855	21.20	2.67	23.87	243.78	2
	18900	1880	21.12	2.67	23.79	239.33	2
	19150	1905	21.26	2.67	23.93	247.17	2
10M-16QAM	18650	1855	20.20	2.67	22.87	193.64	2
	18900	1880	20.18	2.67	22.85	192.75	2
	19150	1905	20.38	2.67	23.05	201.84	2
10M-64QAM	18650	1855	19.12	2.67	21.79	151.01	2
	18900	1880	19.13	2.67	21.80	151.36	2
	19150	1905	19.40	2.67	22.07	161.06	2



LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	18625	1852.5	21.19	2.67	23.86	243.22	2
	18900	1880	21.17	2.67	23.84	242.10	2
	19175	1907.5	21.19	2.67	23.86	243.22	2
5M-16QAM	18625	1852.5	20.31	2.67	22.98	198.61	2
	18900	1880	20.27	2.67	22.94	196.79	2
	19175	1907.5	20.38	2.67	23.05	201.84	2
5M-64QAM	18625	1852.5	19.19	2.67	21.86	153.46	2
	18900	1880	19.16	2.67	21.83	152.41	2
	19175	1907.5	19.41	2.67	22.08	161.44	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	18615	1851.5	21.16	2.67	23.83	241.55	2
	18900	1880	21.11	2.67	23.78	238.78	2
	19185	1908.5	21.30	2.67	23.97	249.46	2
3M-16QAM	18615	1851.5	20.21	2.67	22.88	194.09	2
	18900	1880	20.19	2.67	22.86	193.20	2
	19185	1908.5	20.45	2.67	23.12	205.12	2
3M-64QAM	18615	1851.5	19.19	2.67	21.86	153.46	2
	18900	1880	19.19	2.67	21.86	153.46	2
	19185	1908.5	19.43	2.67	22.10	162.18	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	18607	1850.7	21.16	2.67	23.83	241.55	2
	18900	1880	21.16	2.67	23.83	241.55	2
	19193	1909.3	21.21	2.67	23.88	244.34	2
1.4M-16QAM	18607	1850.7	20.32	2.67	22.99	199.07	2
	18900	1880	20.26	2.67	22.93	196.34	2
	19193	1909.3	20.38	2.67	23.05	201.84	2
1.4M-64QAM	18607	1850.7	19.17	2.67	21.84	152.76	2
	18900	1880	19.17	2.67	21.84	152.76	2
	19193	1909.3	19.37	2.67	22.04	159.96	2



LTE Band 25

LTE Band 25							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	26140	1860	20.35	2.67	23.02	200.45	2
	26365	1882.5	20.77	2.67	23.44	220.80	2
	26590	1905	20.65	2.67	23.32	214.78	2
20M- 16QAM	26140	1860	20.10	2.67	22.77	189.23	2
	26365	1882.5	19.98	2.67	22.65	184.08	2
	26590	1905	19.89	2.67	22.56	180.30	2
20M- 64QAM	26140	1860	18.82	2.67	21.49	140.93	2
	26365	1882.5	18.90	2.67	21.57	143.55	2
	26590	1905	18.94	2.67	21.61	144.88	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	26115	1857.5	20.31	2.67	22.98	198.61	2
	26365	1882.5	20.74	2.67	23.41	219.28	2
	26615	1907.5	20.64	2.67	23.31	214.29	2
15M- 16QAM	26115	1857.5	19.96	2.67	22.63	183.23	2
	26365	1882.5	19.97	2.67	22.64	183.65	2
	26615	1907.5	19.81	2.67	22.48	177.01	2
15M- 64QAM	26115	1857.5	18.73	2.67	21.40	138.04	2
	26365	1882.5	18.83	2.67	21.50	141.25	2
	26615	1907.5	18.89	2.67	21.56	143.22	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	26090	1855	20.33	2.67	23.00	199.53	2
	26365	1882.5	20.69	2.67	23.36	216.77	2
	26640	1910	20.56	2.67	23.23	210.38	2
10M- 16QAM	26090	1855	20.05	2.67	22.72	187.07	2
	26365	1882.5	19.87	2.67	22.54	179.47	2
	26640	1910	19.86	2.67	22.53	179.06	2
10M- 64QAM	26090	1855	18.73	2.67	21.40	138.04	2
	26365	1882.5	18.85	2.67	21.52	141.91	2
	26640	1910	18.89	2.67	21.56	143.22	2



LTE Band 25							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	26065	1852.5	20.29	2.67	22.96	197.70	2
	26365	1882.5	20.62	2.67	23.29	213.30	2
	26665	1912.5	20.55	2.67	23.22	209.89	2
5M-16QAM	26065	1852.5	20.02	2.67	22.69	185.78	2
	26365	1882.5	19.87	2.67	22.54	179.47	2
	26665	1912.5	19.84	2.67	22.51	178.24	2
5M-64QAM	26065	1852.5	18.74	2.67	21.41	138.36	2
	26365	1882.5	18.82	2.67	21.49	140.93	2
	26665	1912.5	18.88	2.67	21.55	142.89	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	26055	1851.5	20.32	2.67	22.99	199.07	2
	26365	1882.5	20.75	2.67	23.42	219.79	2
	26675	1913.5	20.64	2.67	23.31	214.29	2
3M-16QAM	26055	1851.5	19.97	2.67	22.64	183.65	2
	26365	1882.5	19.96	2.67	22.63	183.23	2
	26675	1913.5	19.79	2.67	22.46	176.20	2
3M-64QAM	26055	1851.5	18.78	2.67	21.45	139.64	2
	26365	1882.5	18.80	2.67	21.47	140.28	2
	26675	1913.5	18.92	2.67	21.59	144.21	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	26047	1850.7	20.56	2.67	23.23	210.38	2
	26365	1882.5	20.68	2.67	23.35	216.27	2
	26683	1914.3	20.59	2.67	23.26	211.84	2
1.4M-16QAM	26047	1850.7	19.98	2.67	22.65	184.08	2
	26365	1882.5	19.94	2.67	22.61	182.39	2
	26683	1914.3	19.81	2.67	22.48	177.01	2
1.4M-64QAM	26047	1850.7	18.77	2.67	21.44	139.32	2
	26365	1882.5	18.88	2.67	21.55	142.89	2
	26683	1914.3	18.93	2.67	21.60	144.54	2

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



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

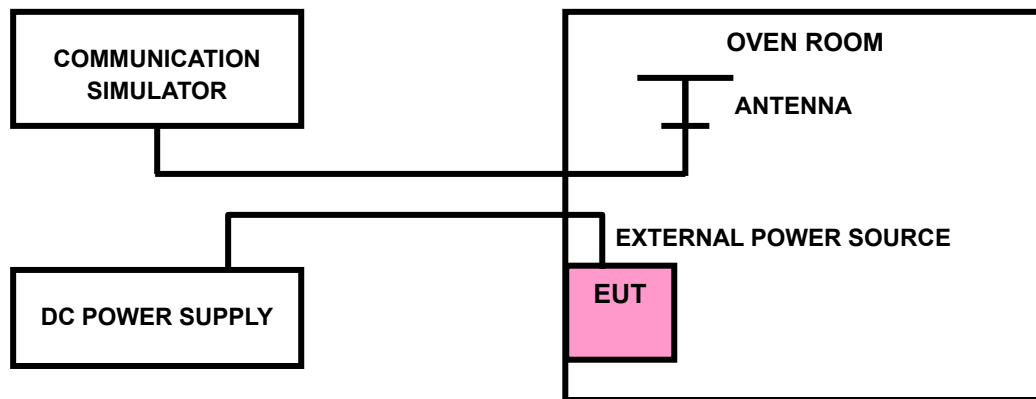
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

Please Refer to Appendix of this test report.

Note: VL = Low voltage(3.4V); VN/NV = Normal voltage(3.85V); VH = High voltage(4.4V); NT = Normal temperature (25°C)

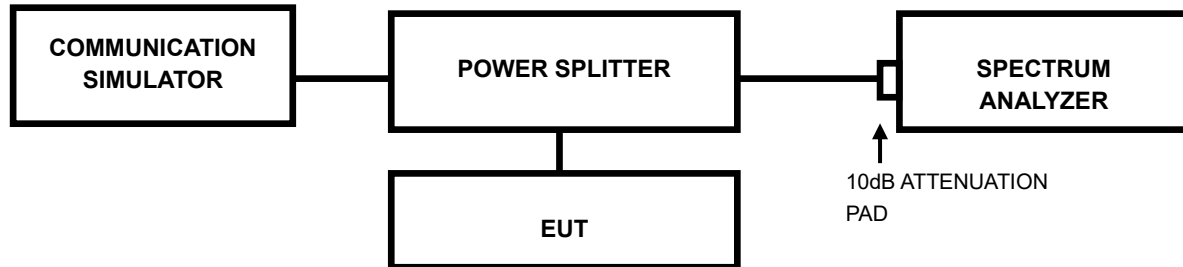


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

Please Refer to Appendix of this test report.

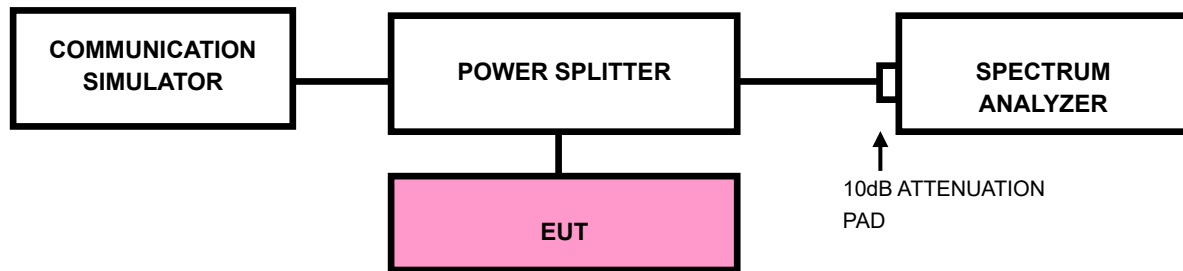


3.4 BAND EDGE MEASUREMENTC

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth

(EBW)

- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix of this test report.



3.5 CONDUCTED SPURIOUS EMISSIONS

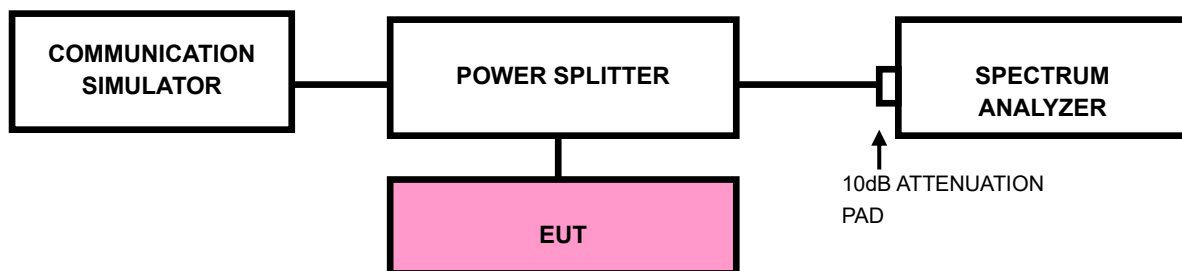
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30MHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

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

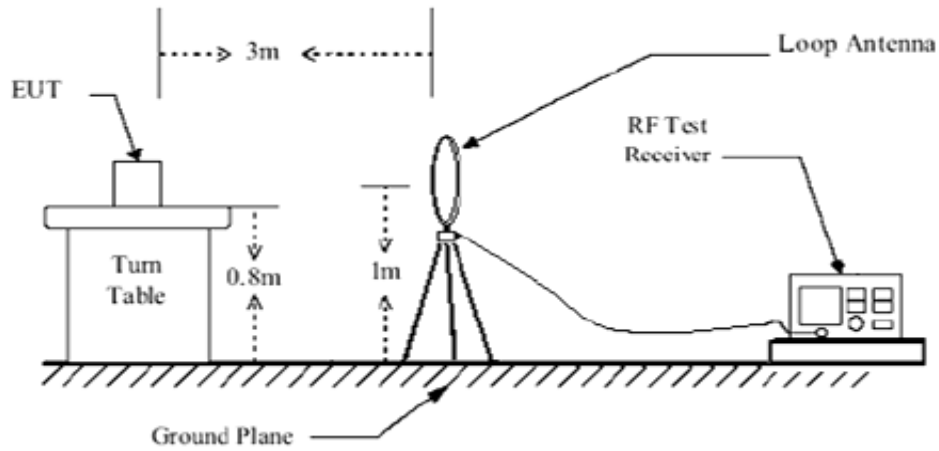
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

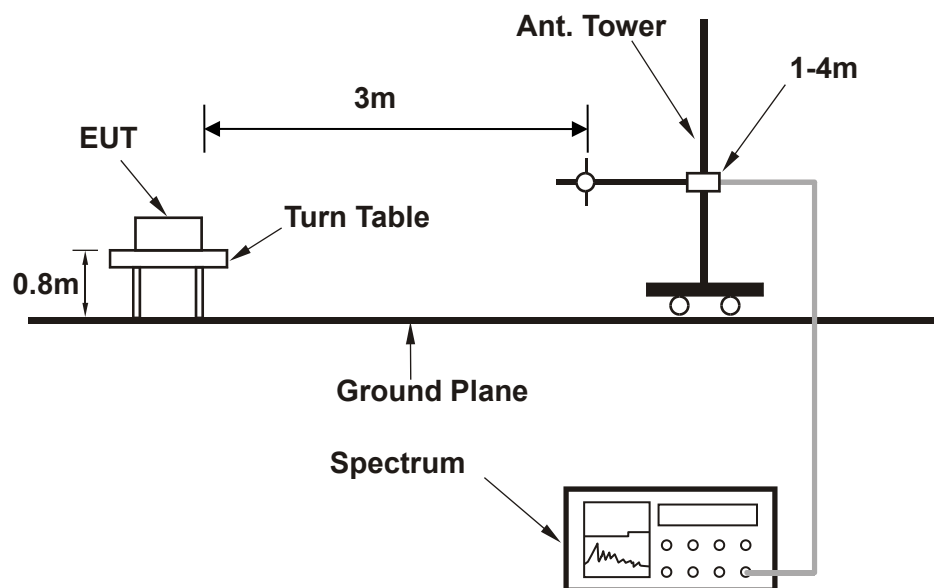


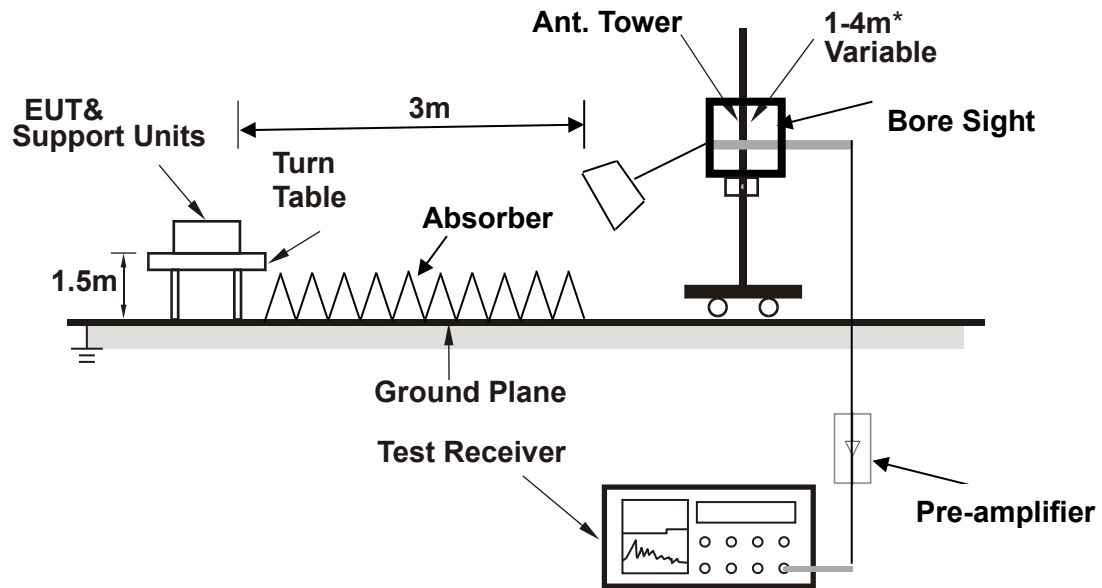
3.6.4 TEST SETUP

< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >





Note: Above 1G is a directional antenna

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

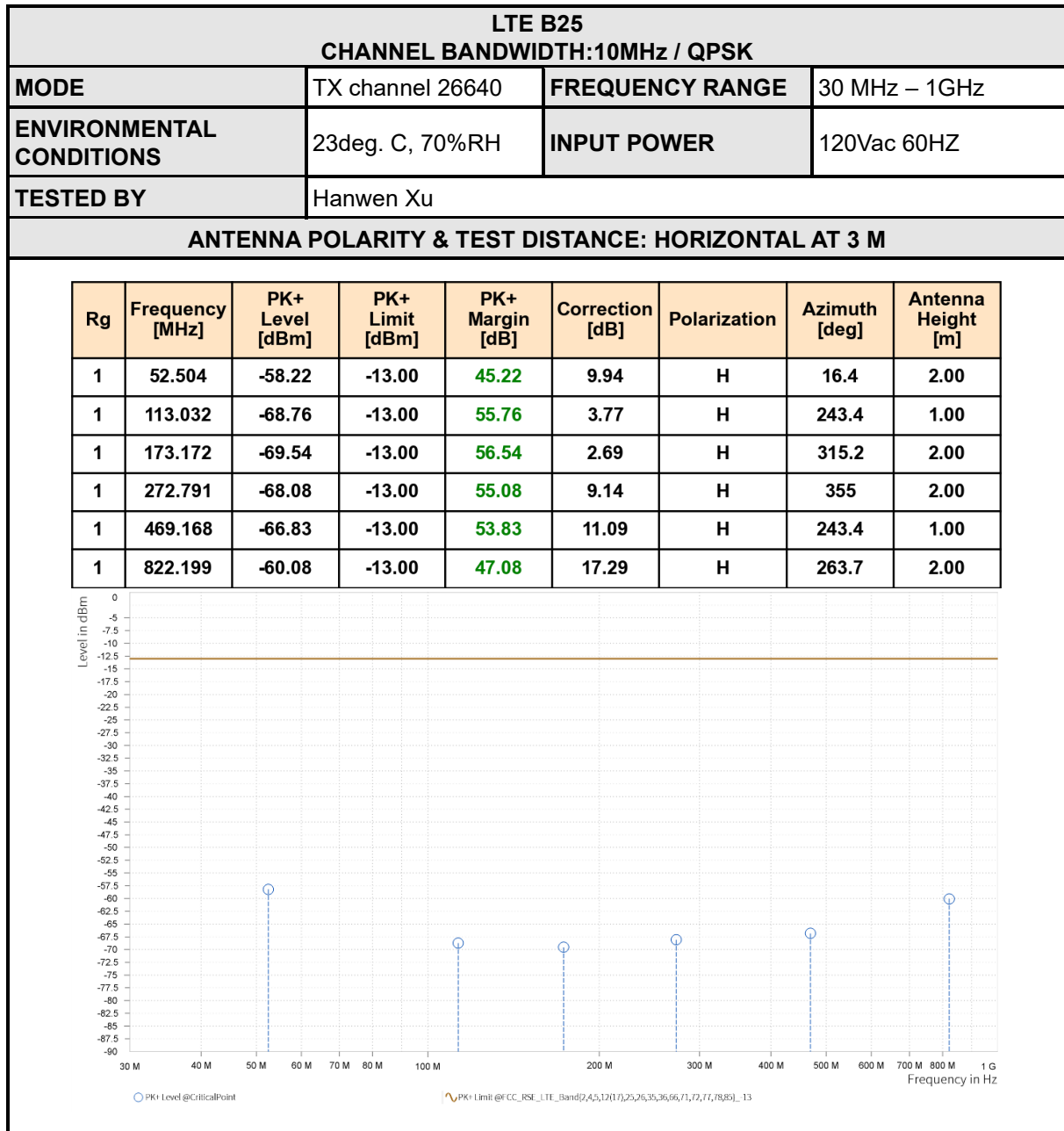
For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

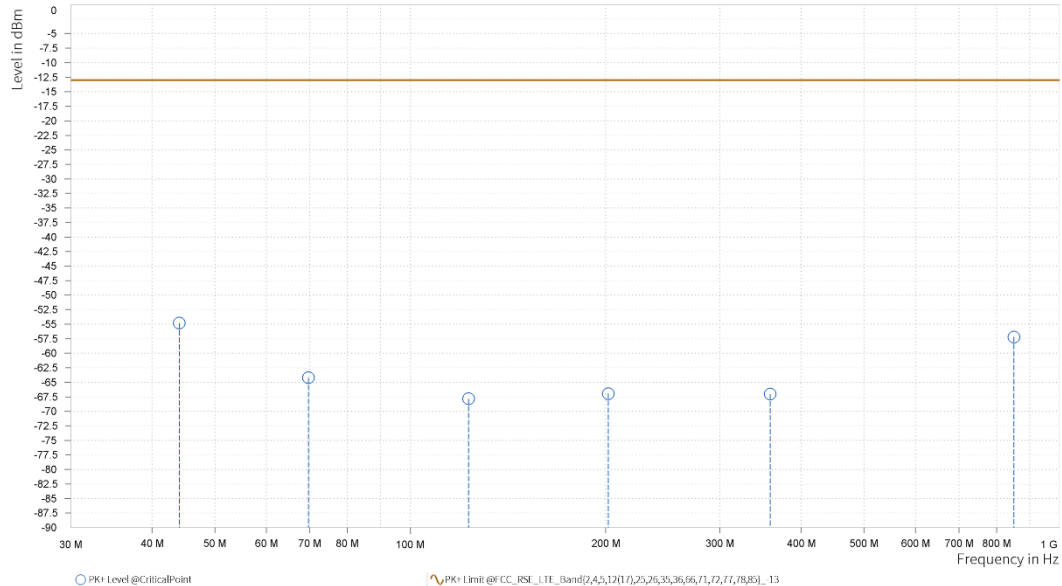




MODE	TX channel 26640	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	44.065	-54.82	-13.00	41.82	10.62	V	44.8	1.00
1	69.673	-64.22	-13.00	51.22	4.58	V	44.8	1.00
1	122.975	-67.84	-13.00	54.84	4.52	V	359	1.00
1	201.787	-66.95	-13.00	53.95	6.20	V	1	2.00
1	358.345	-67.03	-13.00	54.03	9.06	V	146.5	1.00
1	850.669	-57.22	-13.00	44.22	19.10	V	217	2.00





ABOVE 1GHz DATA

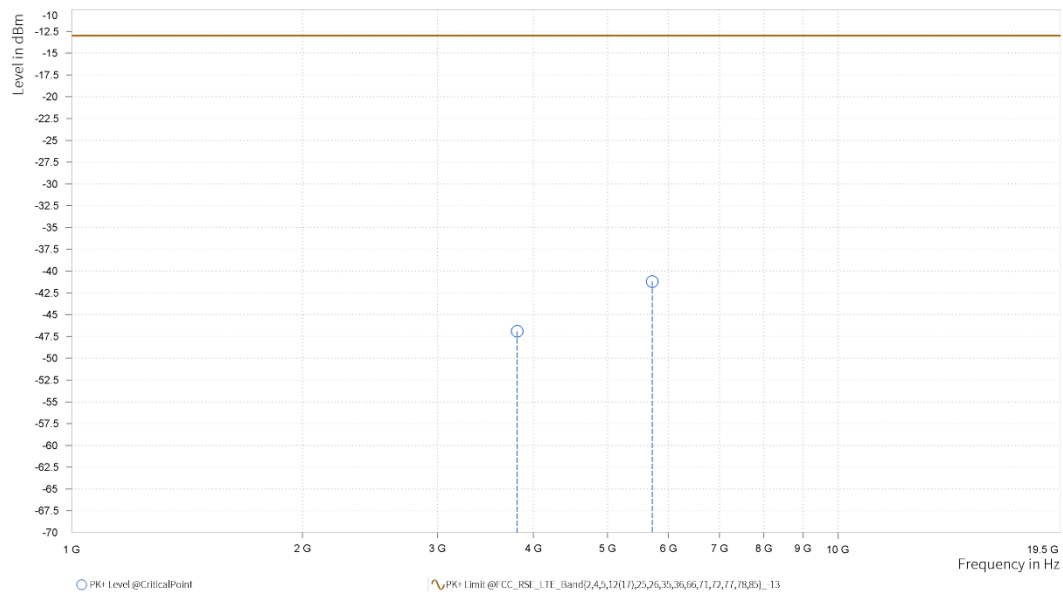
Note: For higher frequency, the emission is too low to be detected.

LTE Band 25

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26640
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,811.000	-46.92	-13.00	33.92	27.59	H	233.8	1.00
4	5,716.500	-41.19	-13.00	28.19	34.85	H	233.8	1.00

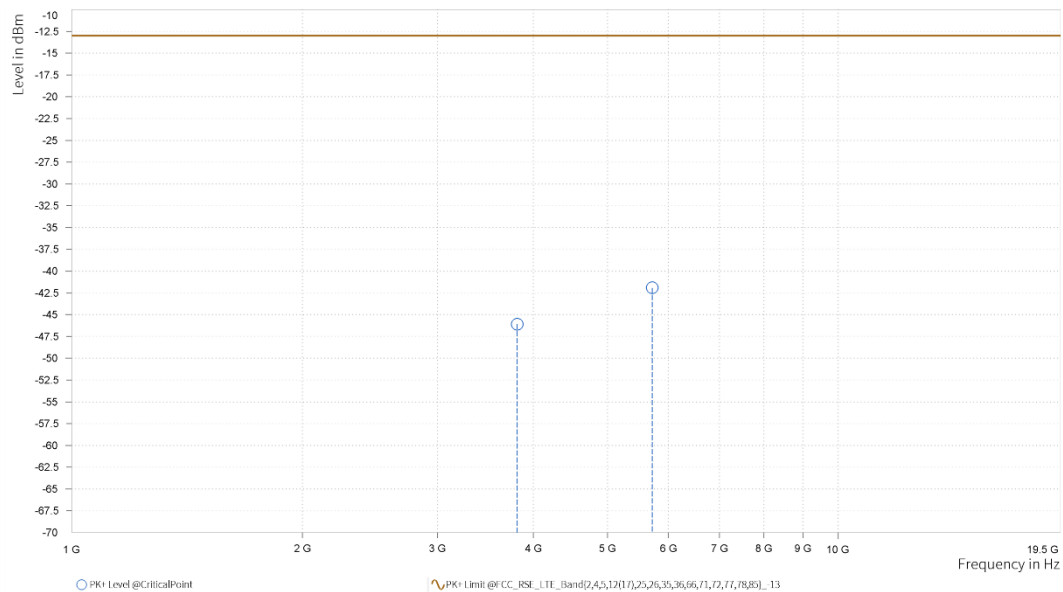




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26640
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,811.000	-46.10	-13.00	33.10	27.30	V	123.8	2.00
4	5,716.500	-41.92	-13.00	28.92	34.59	V	1	1.00



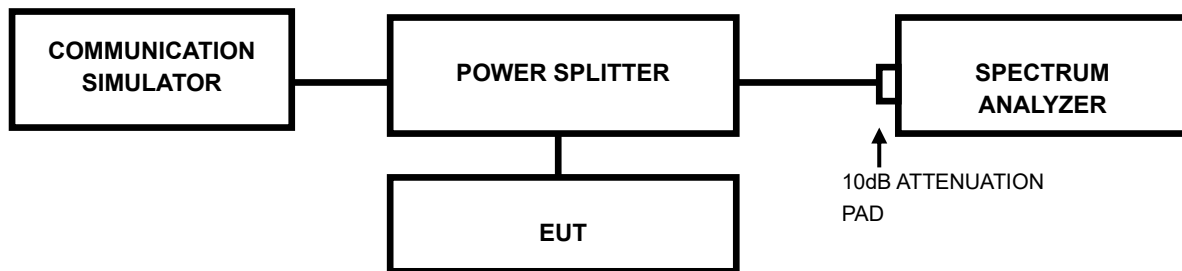


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.



4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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

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



6 Appendix

GSM1900

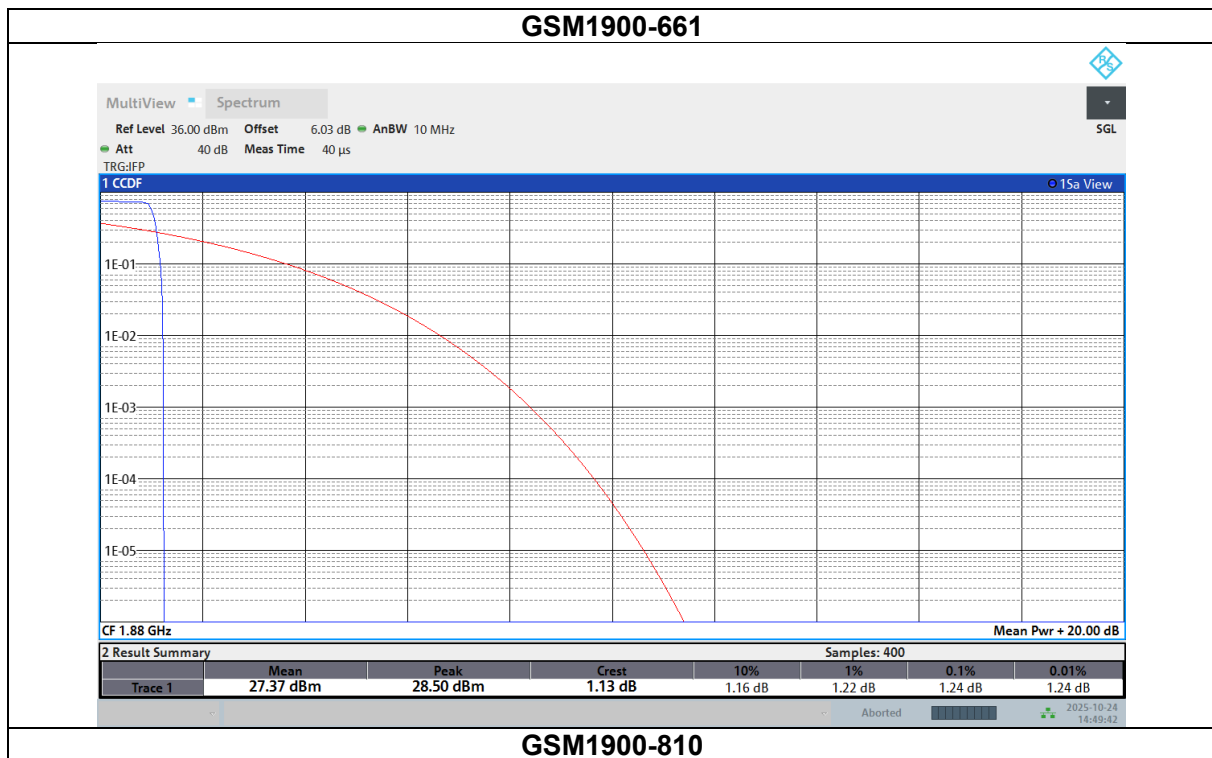
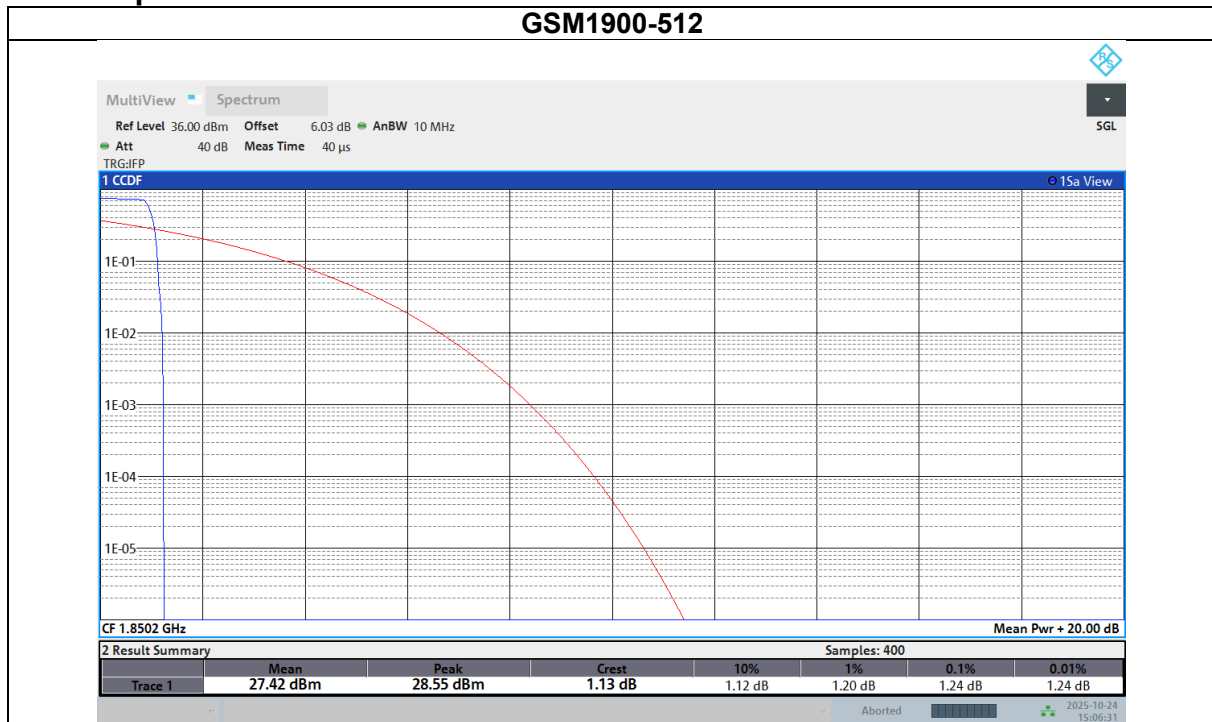
PEAK-TO-AVERAGE RATIO(CCDF)

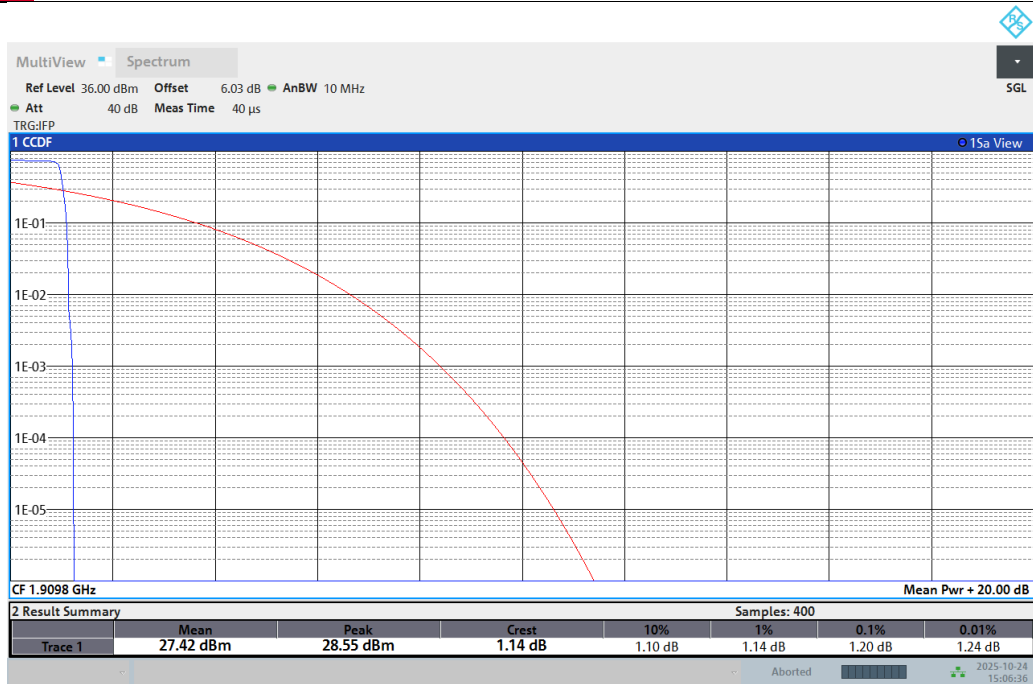
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	1.24	13	PASS
GSM1900	661	1.24	13	PASS
GSM1900	810	1.20	13	PASS
EGPRS1900	512	3.76	13	PASS
EGPRS1900	661	2.50	13	PASS
EGPRS1900	810	3.38	13	PASS

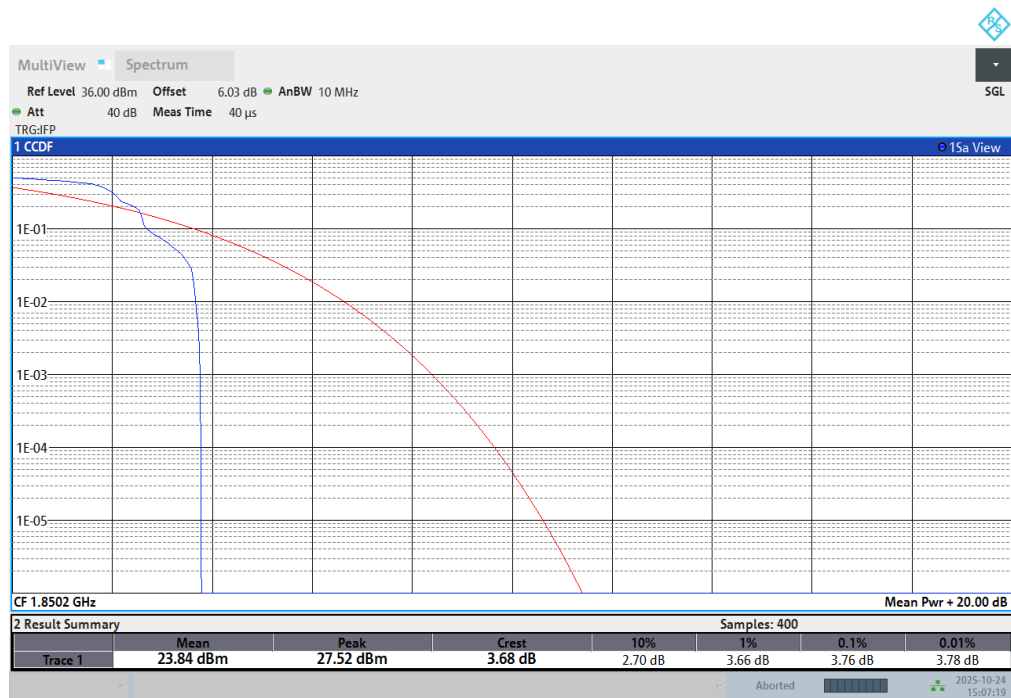


Test Graphs

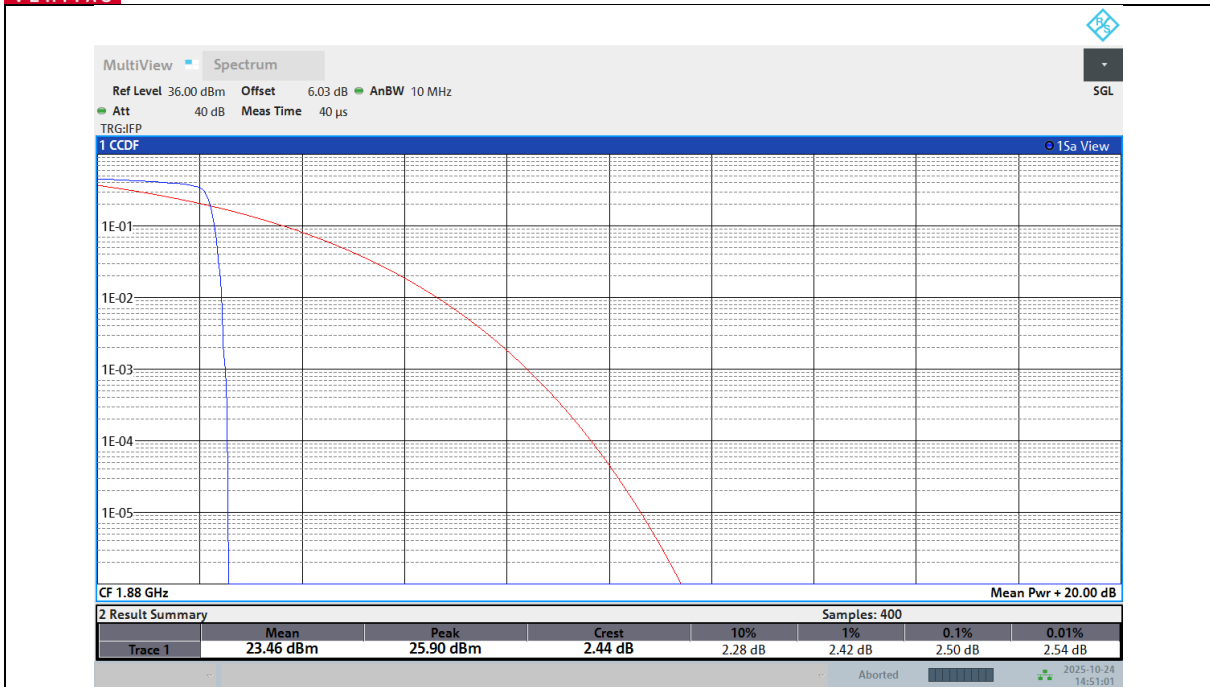




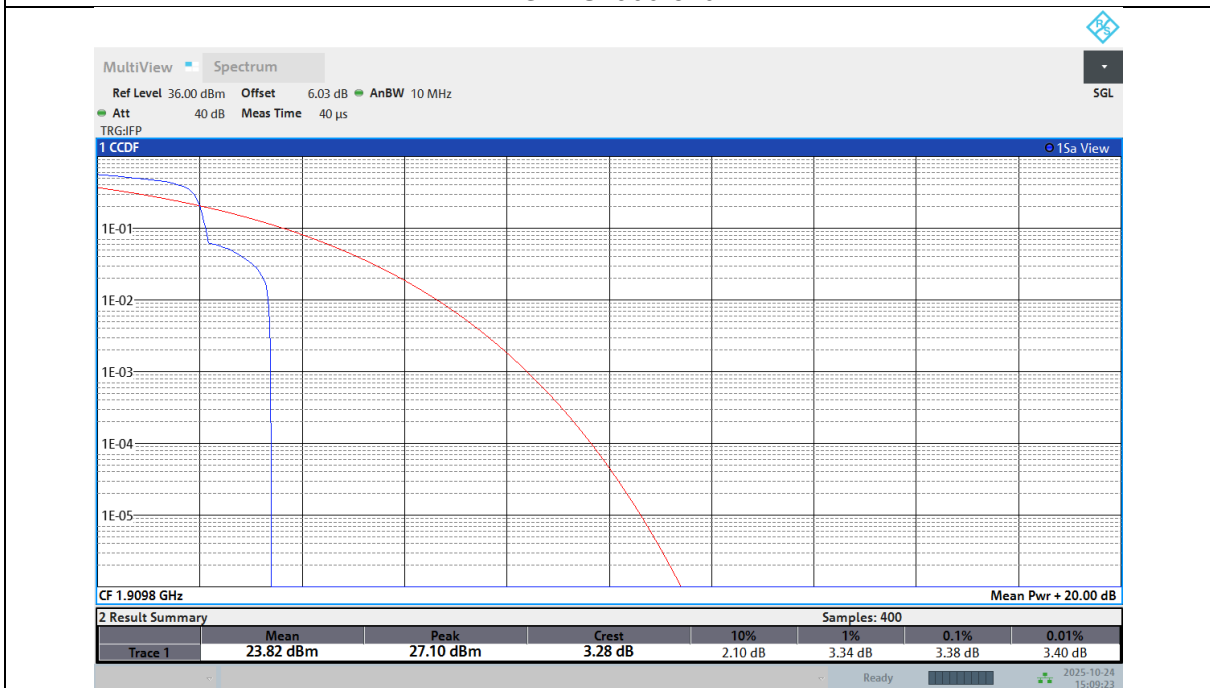
EGPRS1900-512



EGPRS1900-661



EGPRS1900-810





BUREAU VERITAS Test Report No.: PSU-NQN2509250114RF07
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

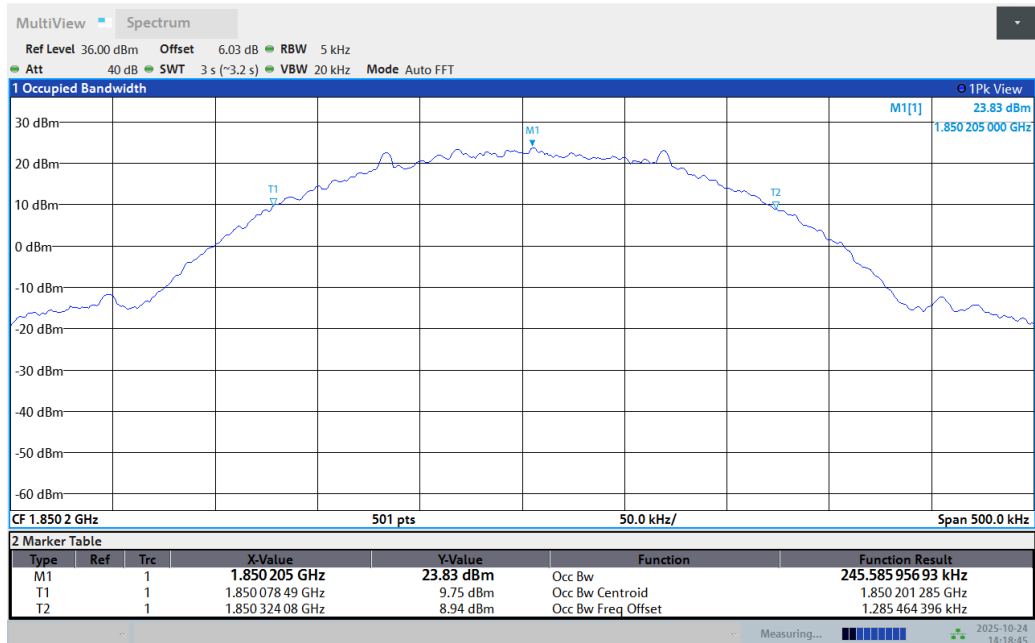
Test Result

Band	Channel	Occupied Bandwidth(kHz)	Verdict
GSM1900	512	245.586	PASS
GSM1900	661	243.913	PASS
GSM1900	810	245.182	PASS
EGPRS1900	512	252.097	PASS
EGPRS1900	661	244.324	PASS
EGPRS1900	810	245.330	PASS

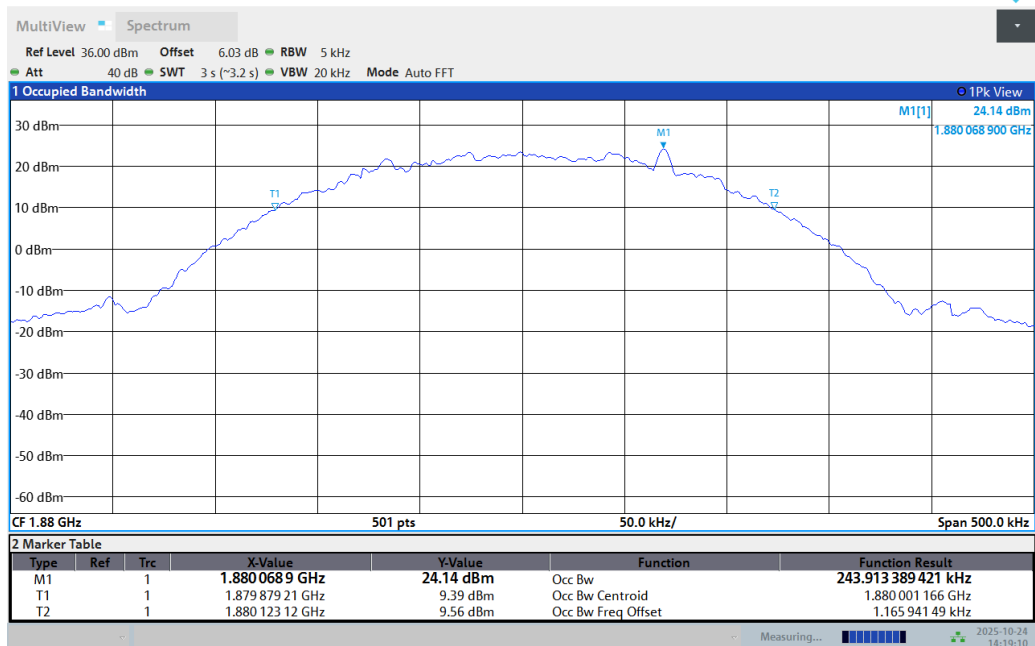


Test Graphs

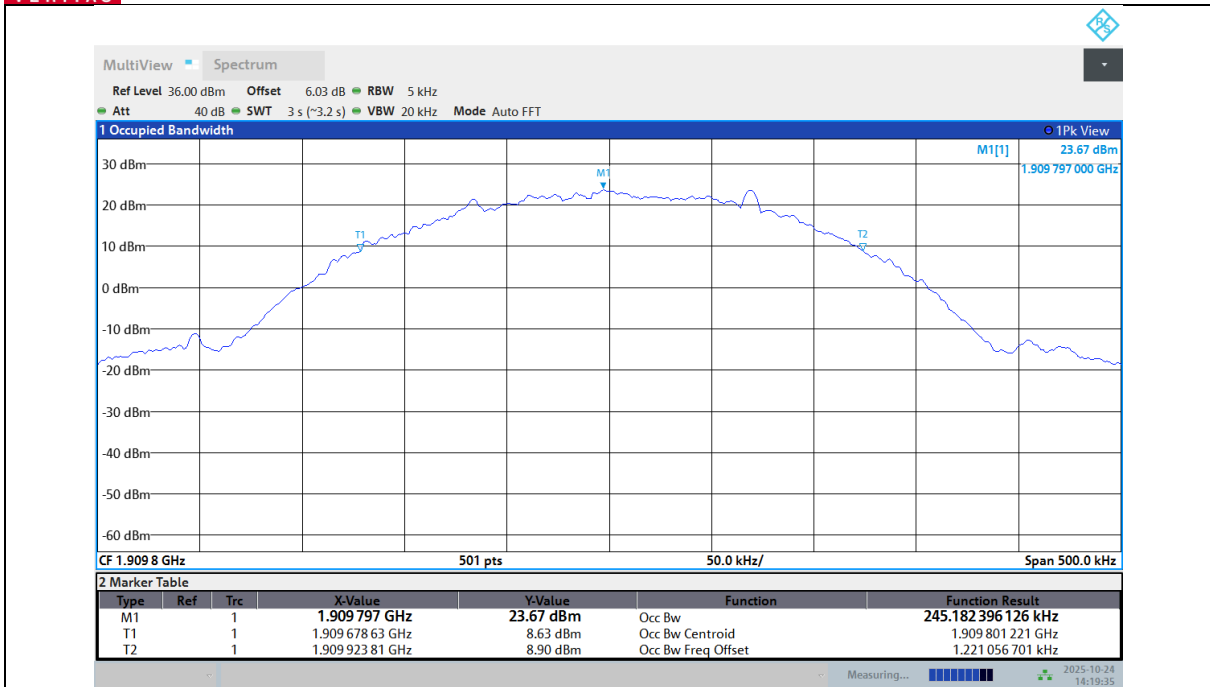
GSM1900-512



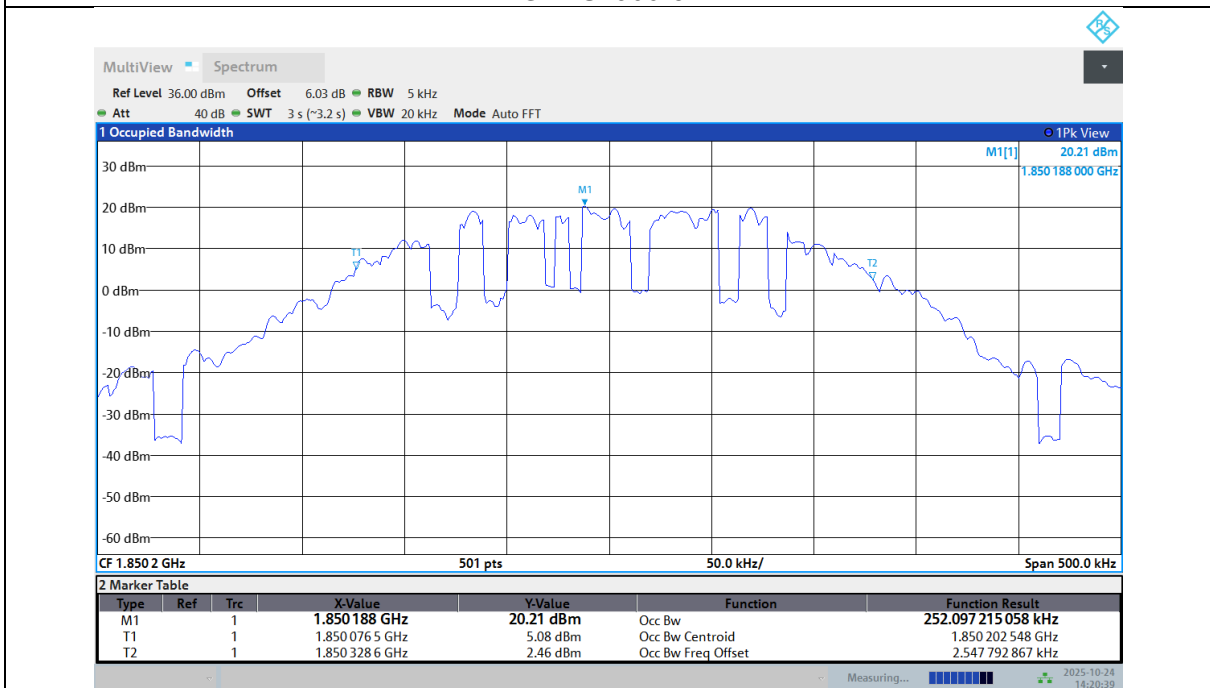
GSM1900-661



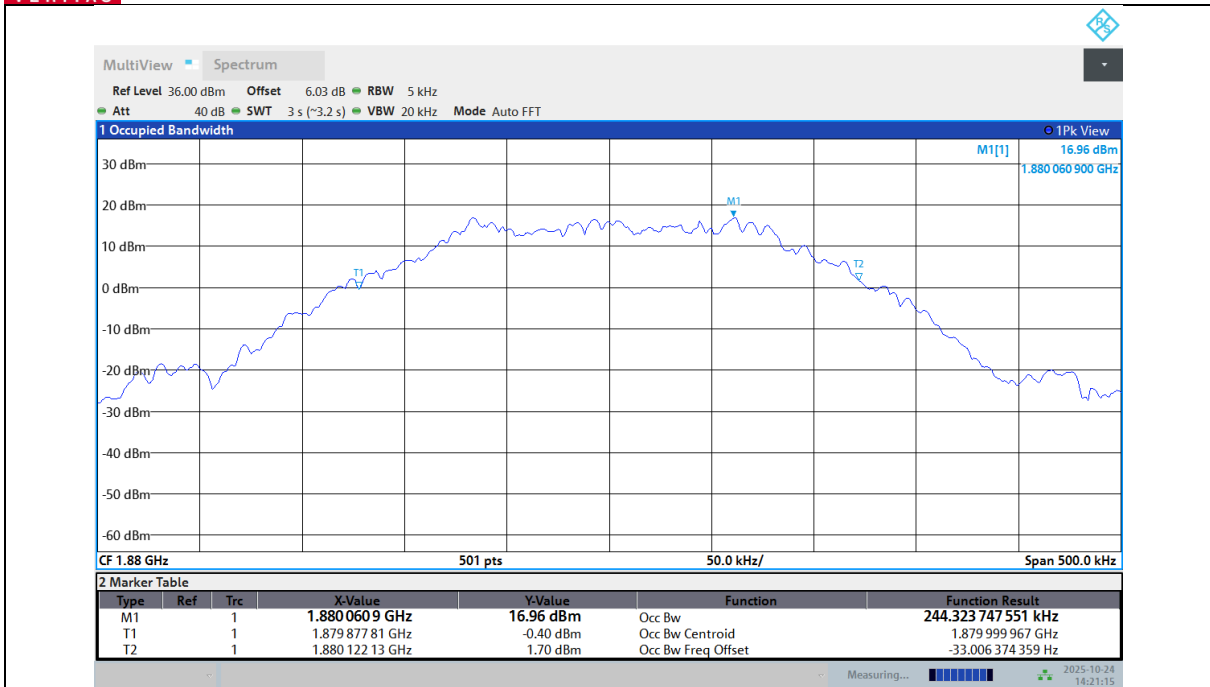
GSM1900-810



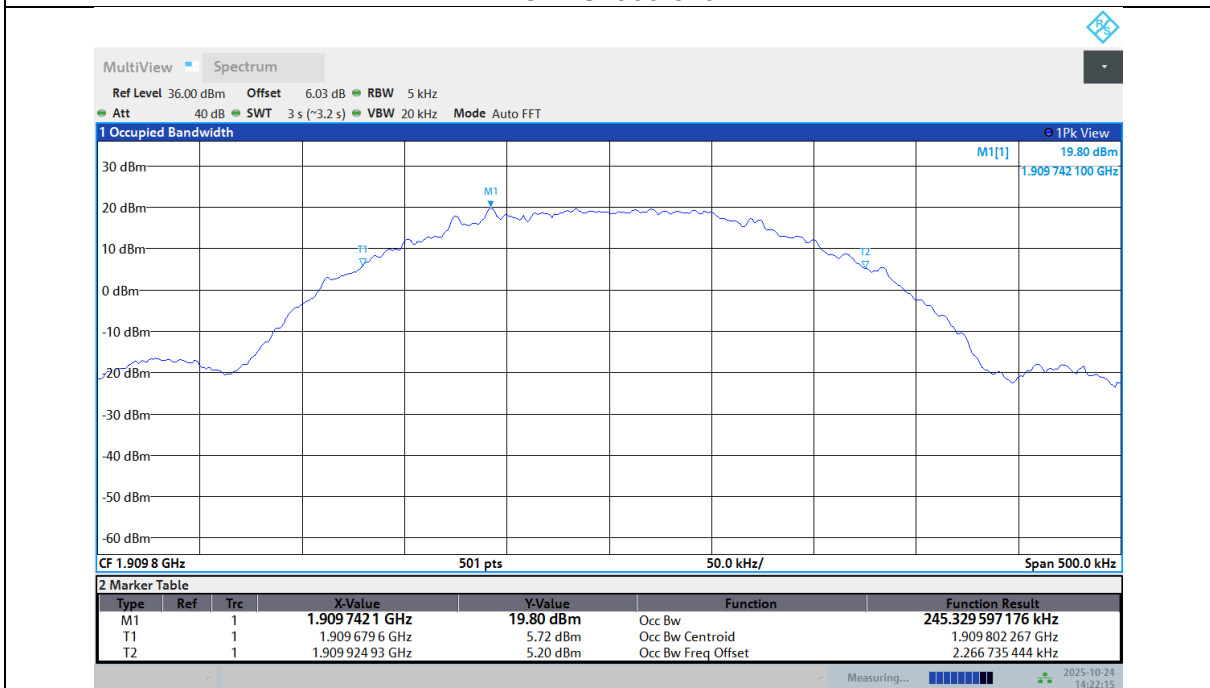
EGPRS1900-512



EGPRS1900-661



EGPRS1900-810





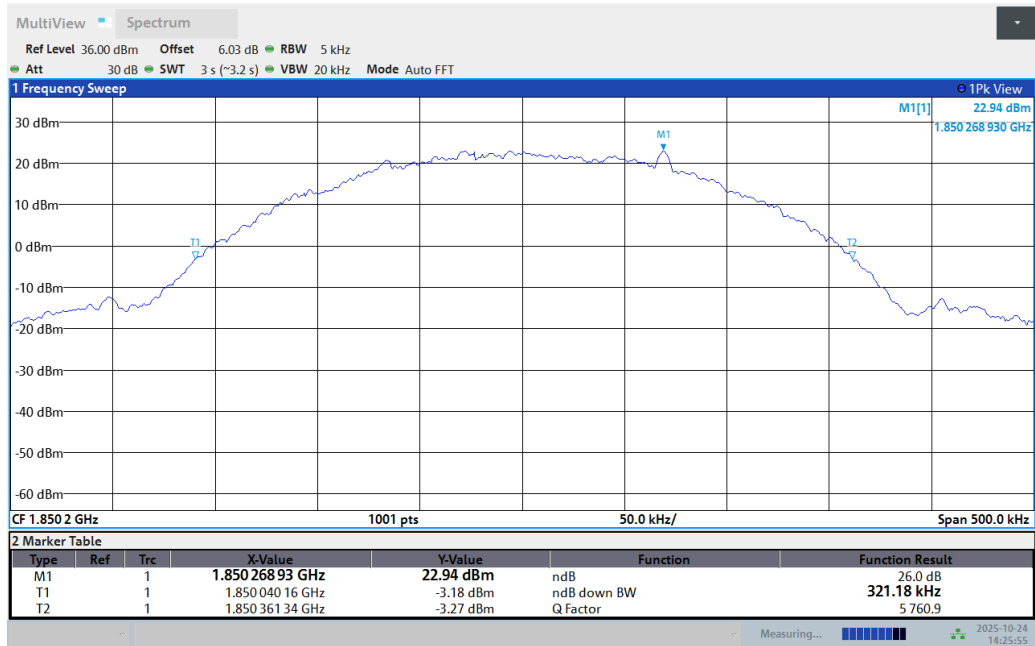
Test Result

Band	Channel	26dB Bandwidth(kHz)	Verdict
GSM1900	512	321.18	PASS
GSM1900	661	317.18	PASS
GSM1900	810	316.68	PASS

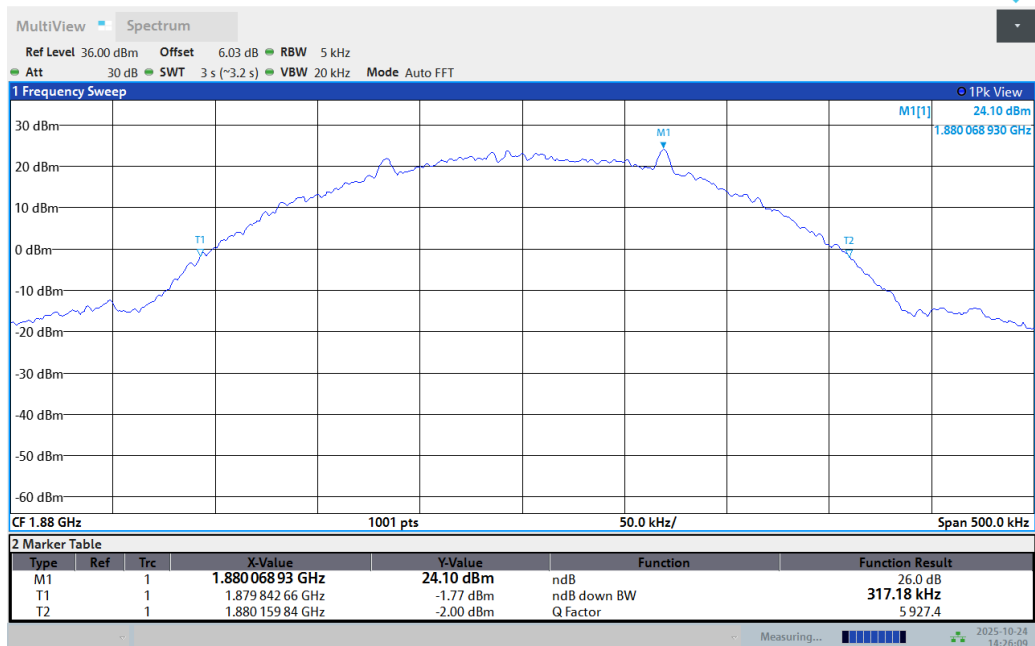


Test Graphs

GSM1900-512



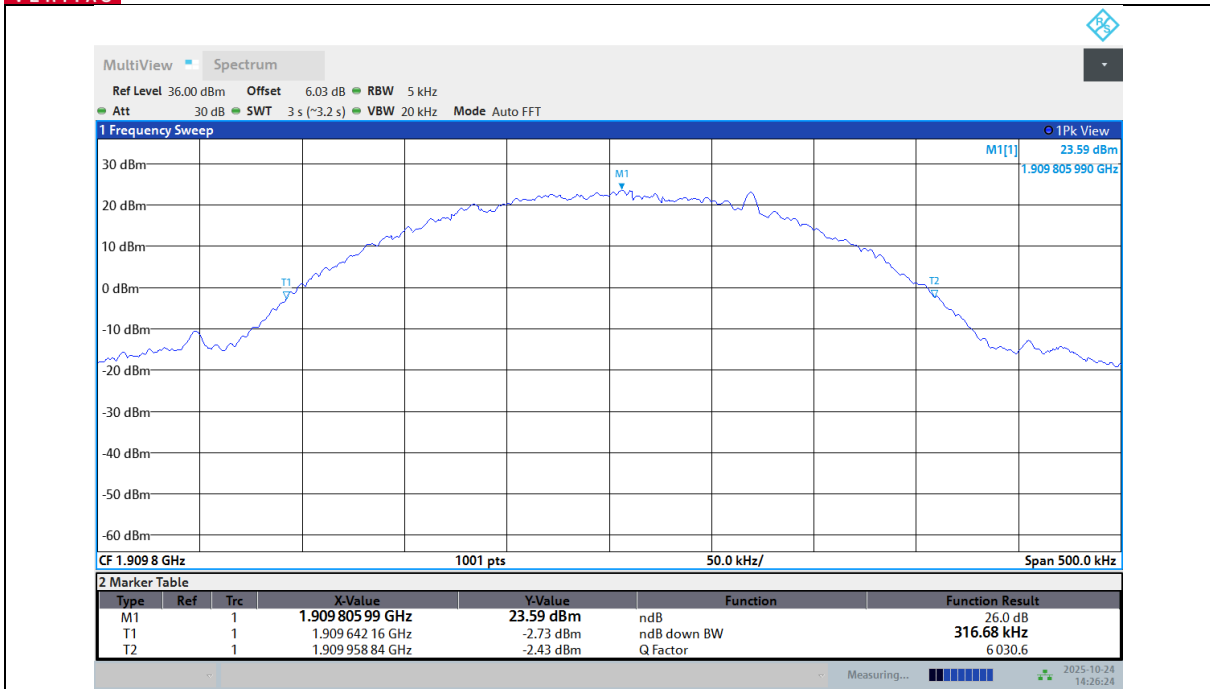
GSM1900-661



GSM1900-810



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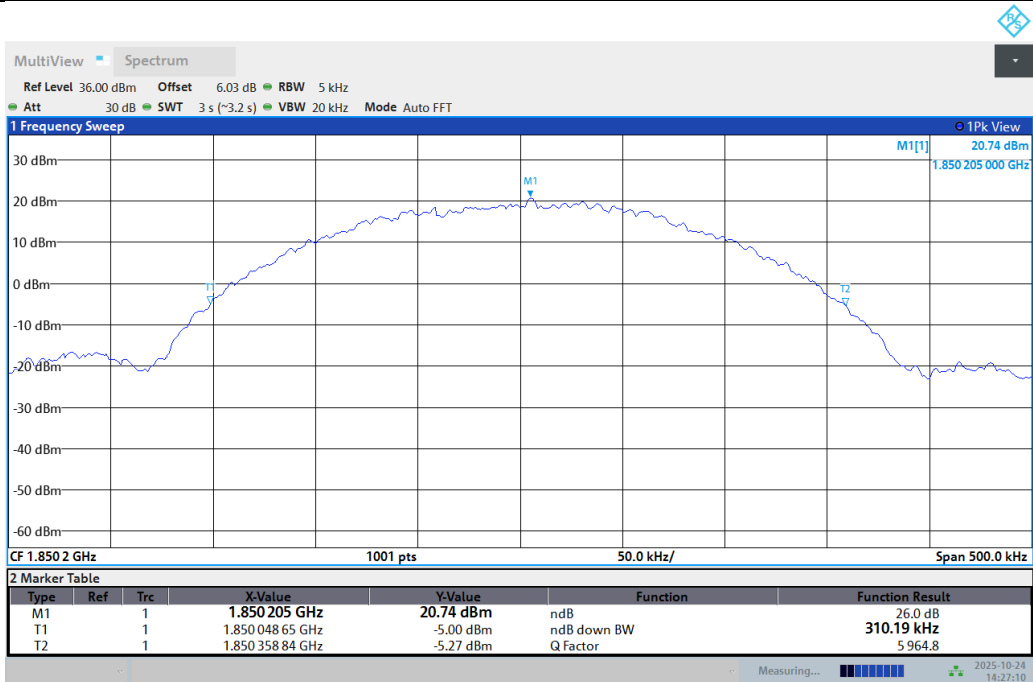
BUREAU Test Report No.: PSU-NQN2509250114RF07
VERITAS

EGPRS1900(-26dBc)

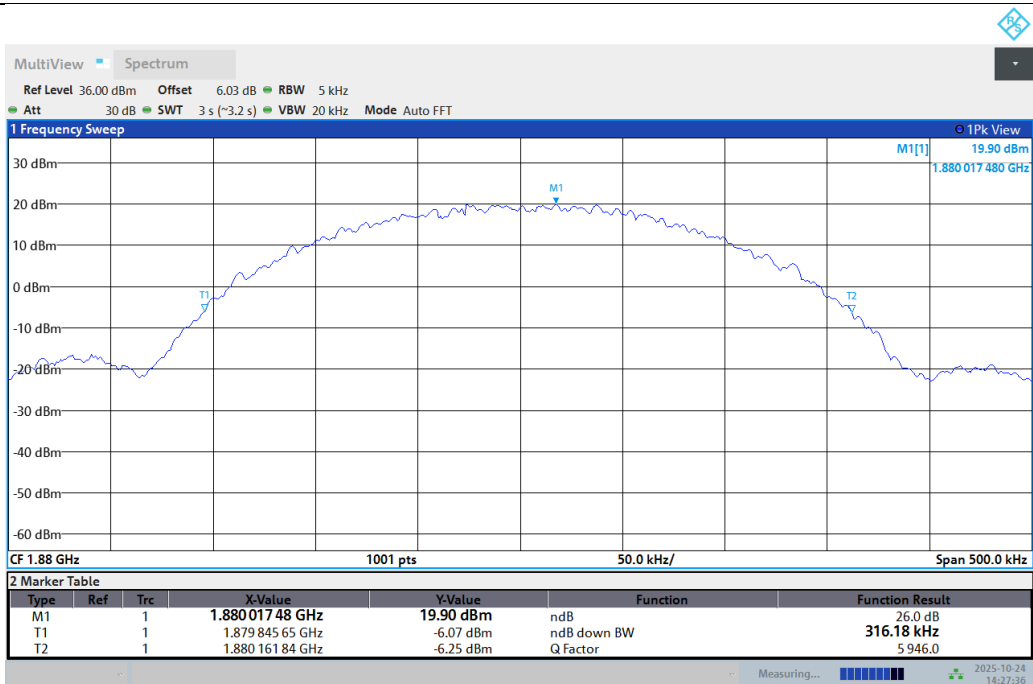
Band	Channel	26dB Bandwidth(MHz)	Verdict
EGPRS1900	512	310.19	PASS
EGPRS1900	661	316.18	PASS
EGPRS1900	810	313.69	PASS



EGPRS1900-512



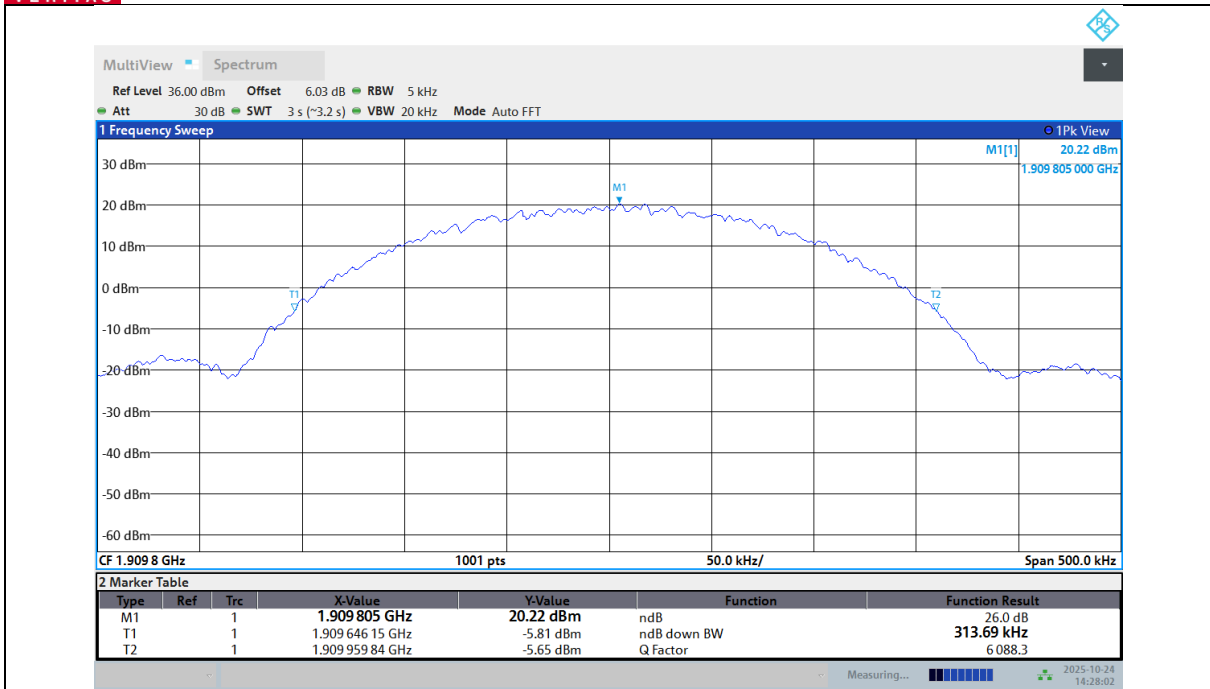
EGPRS1900-661



EGPRS1900-810



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VERITAS

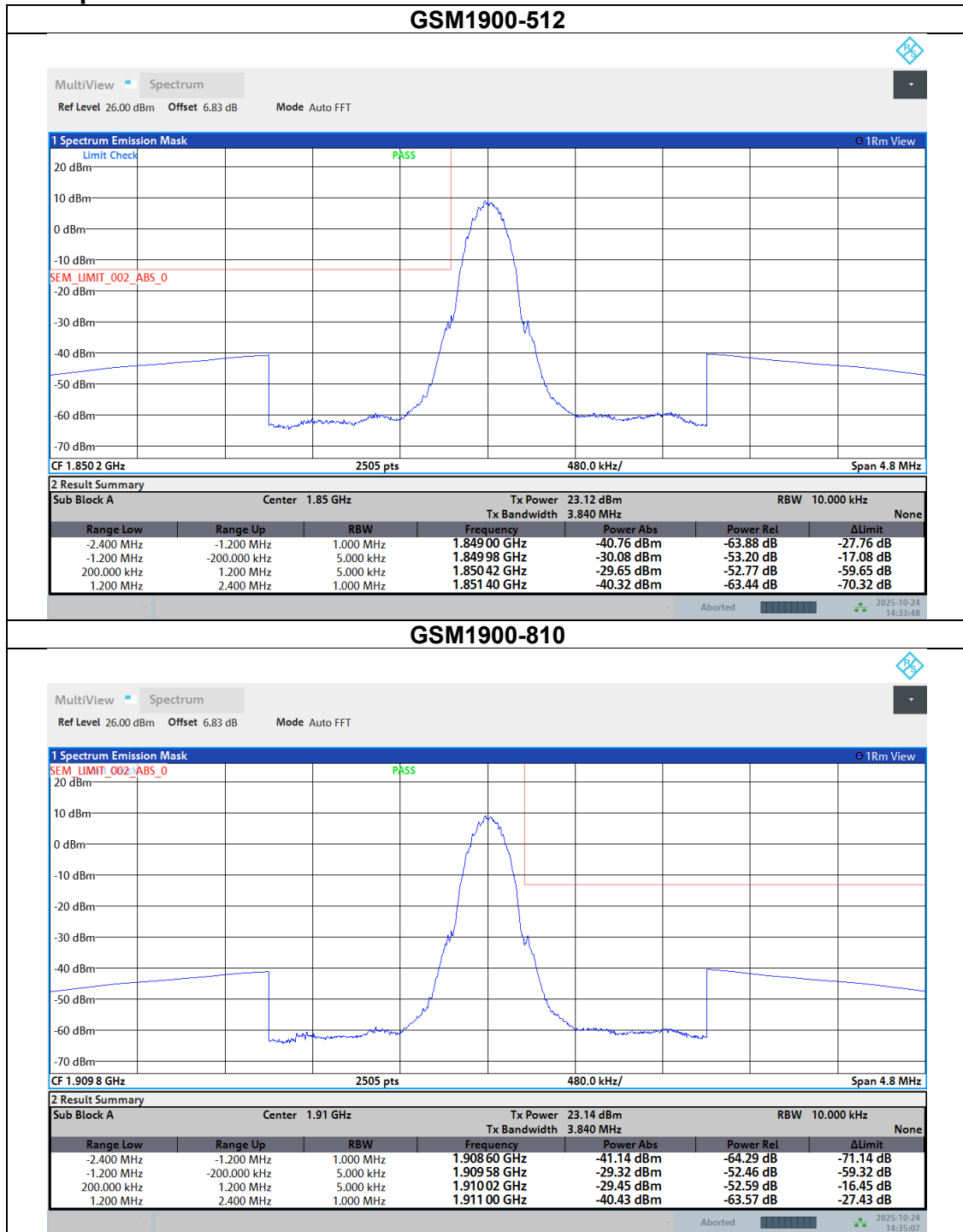
BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result(dBm)	Limit(dBm)	Verdict
GSM1900	512	1849.98	-30.08	-13	PASS
GSM1900	810	1910.02	-19.45	-13	PASS



Test Graphs



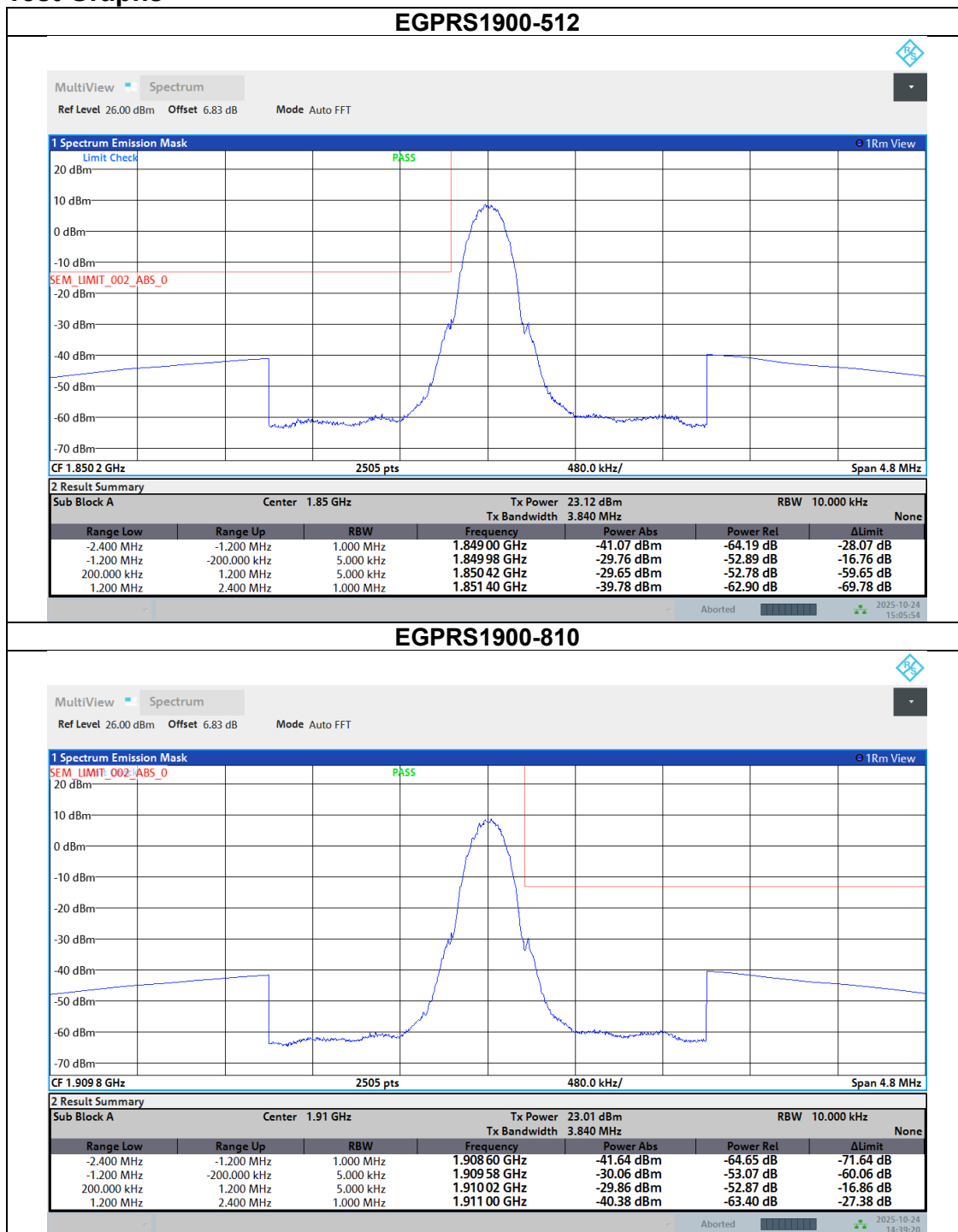


Test Result

Band	Channel	Frequency (MHz)	Result(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1849.98	-29.76	-13	PASS
EGPRS1900	810	1910.02	-29.45	-13	PASS



Test Graphs





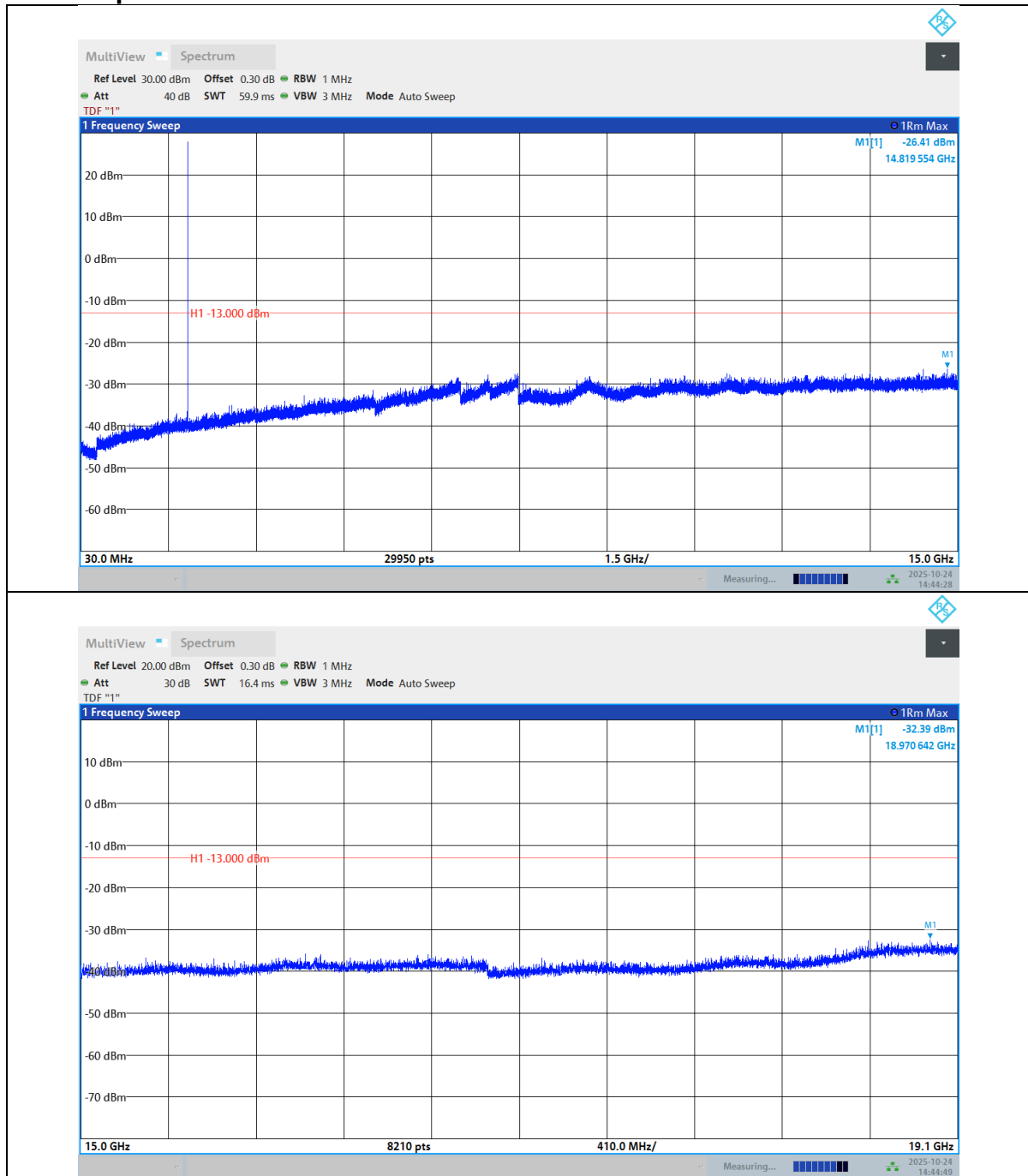
BUREAU VERITAS Test Report No.: PSU-NQN2509250114RF07
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range(MHz)	Result(dBm)	Limit(dBm)	Verdict
GSM1900	512	30-19100	See Graph	-13	PASS
GSM1900	661	30-19100	See Graph	-13	PASS
GSM1900	810	30-19100	See Graph	-13	PASS
EGPRS1900	512	30-19100	See Graph	-13	PASS
EGPRS1900	661	30-19100	See Graph	-13	PASS
EGPRS1900	810	30-19100	See Graph	-13	PASS

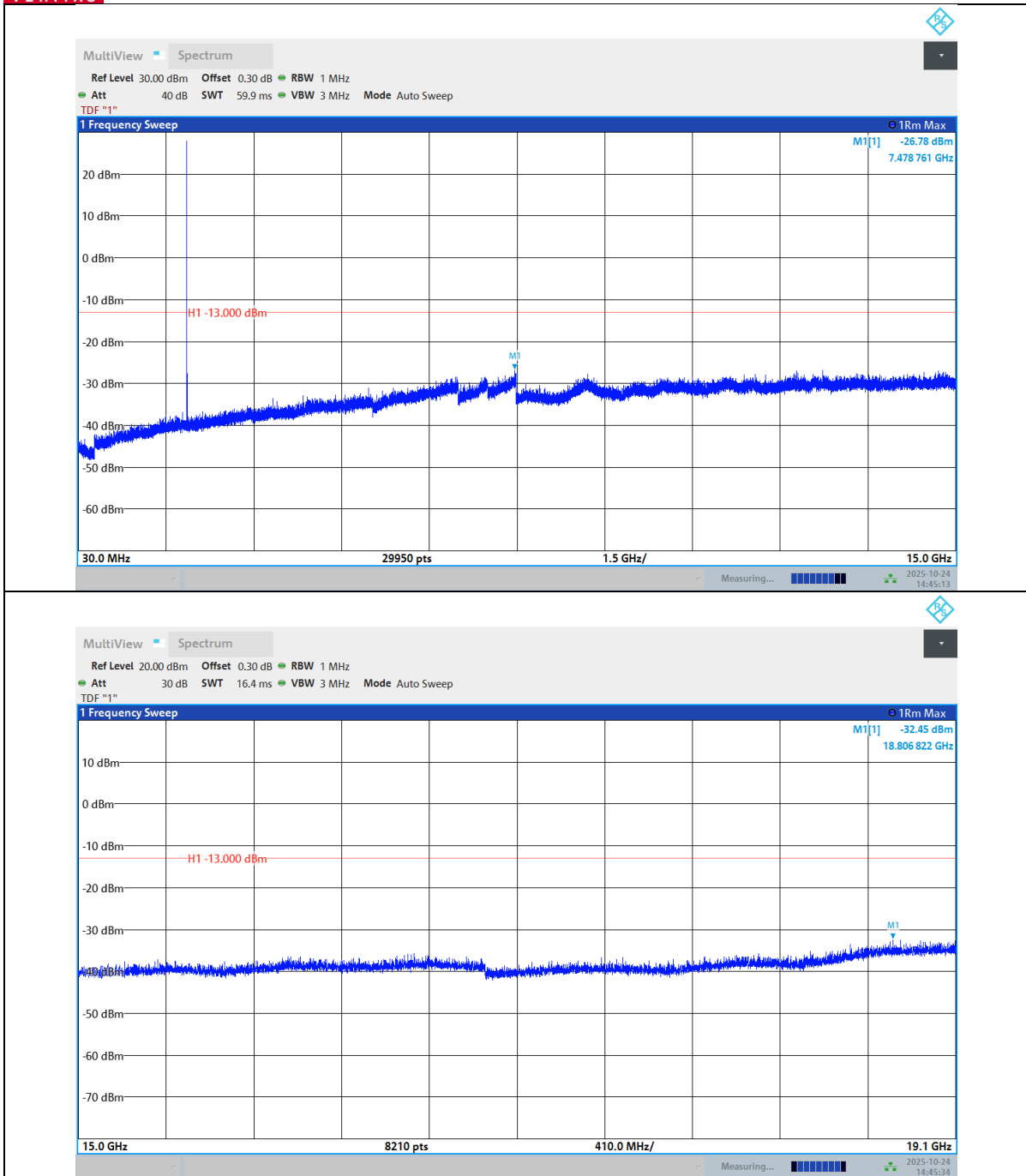


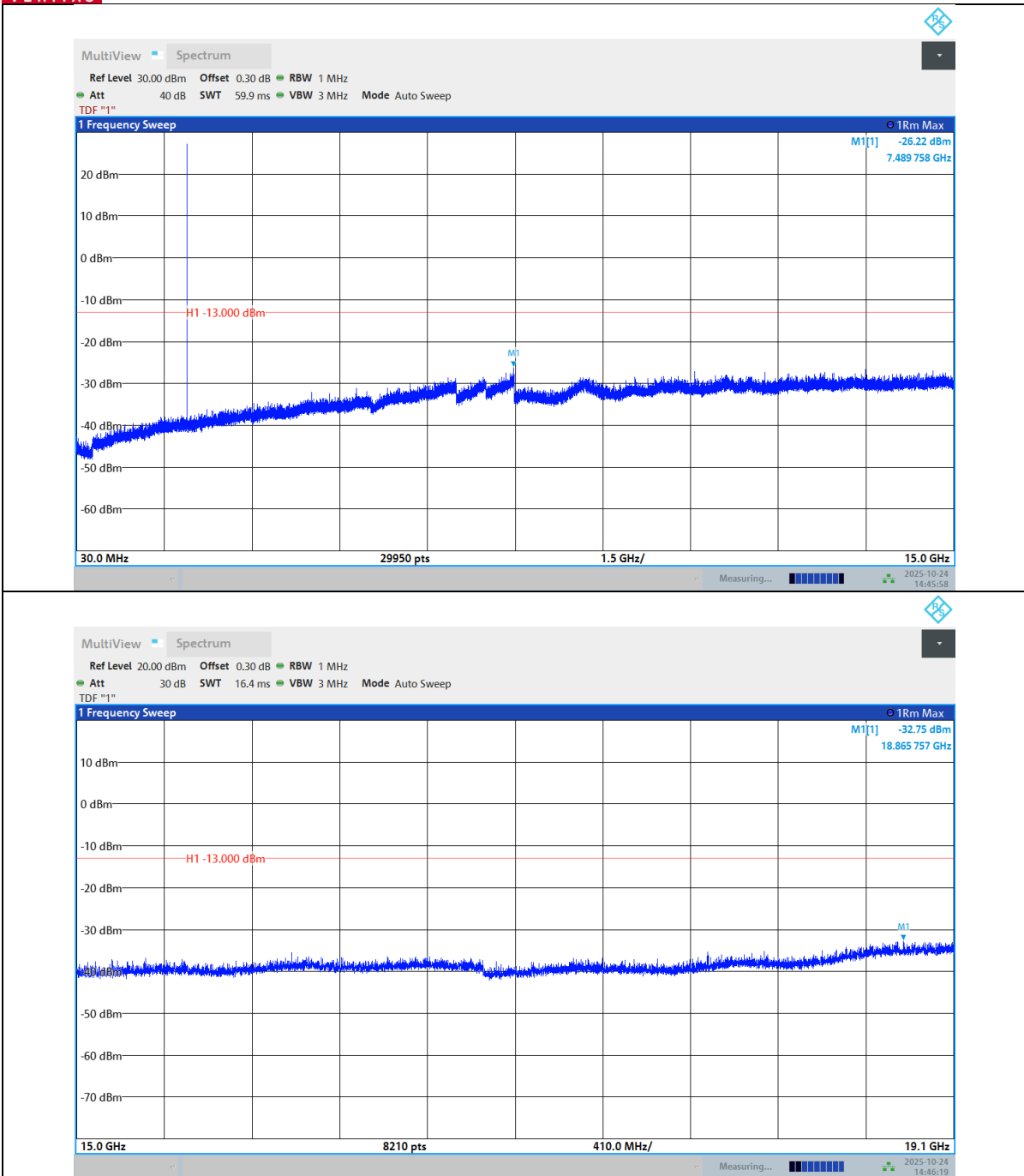
Test Graphs





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FREQUENCY STABILITY

Test Result

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	512	LV	NT	-43.13	-0.0842	PASS
GSM1900	512	NV	NT	-6.61	-0.0129	PASS
GSM1900	512	HV	NT	-153.31	-0.2994	PASS
GSM1900	661	LV	NT	-17.64	-0.0267	PASS
GSM1900	661	NV	NT	-7.51	-0.0114	PASS
GSM1900	661	HV	NT	-114.46	-0.1732	PASS
GSM1900	810	LV	NT	-61.47	-0.0759	PASS
GSM1900	810	NV	NT	-91.73	-0.1132	PASS
GSM1900	810	HV	NT	-13.42	-0.0166	PASS



Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	512	NV	-30	-28.58	-0.0558	PASS
GSM1900	512	NV	-20	-151.03	-0.2950	PASS
GSM1900	512	NV	-10	-124.43	-0.2430	PASS
GSM1900	512	NV	0	-122.14	-0.2386	PASS
GSM1900	512	NV	10	-132.88	-0.2595	PASS
GSM1900	512	NV	20	-169.43	-0.3309	PASS
GSM1900	512	NV	30	-124.69	-0.2435	PASS
GSM1900	512	NV	40	18.29	0.0357	PASS
GSM1900	512	NV	50	-123.73	-0.2417	PASS
GSM1900	661	NV	-30	-123.30	-0.1865	PASS
GSM1900	661	NV	-20	-152.58	-0.2308	PASS
GSM1900	661	NV	-10	-15.52	-0.0235	PASS
GSM1900	661	NV	0	-86.40	-0.1307	PASS
GSM1900	661	NV	10	-70.42	-0.1065	PASS
GSM1900	661	NV	20	-50.49	-0.0764	PASS
GSM1900	661	NV	30	-106.95	-0.1618	PASS
GSM1900	661	NV	40	-10.93	-0.0165	PASS
GSM1900	661	NV	50	-94.70	-0.1433	PASS
GSM1900	810	NV	-30	17.28	0.0213	PASS
GSM1900	810	NV	-20	-41.13	-0.0508	PASS
GSM1900	810	NV	-10	-77.96	-0.0962	PASS
GSM1900	810	NV	0	-27.49	-0.0339	PASS
GSM1900	810	NV	10	16.26	0.0201	PASS
GSM1900	810	NV	20	-85.83	-0.1060	PASS
GSM1900	810	NV	30	-177.42	-0.2190	PASS
GSM1900	810	NV	40	18.85	0.0233	PASS
GSM1900	810	NV	50	14.64	0.0181	PASS

Note: The fundamental emission stays within the authorized frequency block based on the frequency stability is small.



WCDMA BAND II

PEAK-TO-AVERAGE RATIO(CCDF)

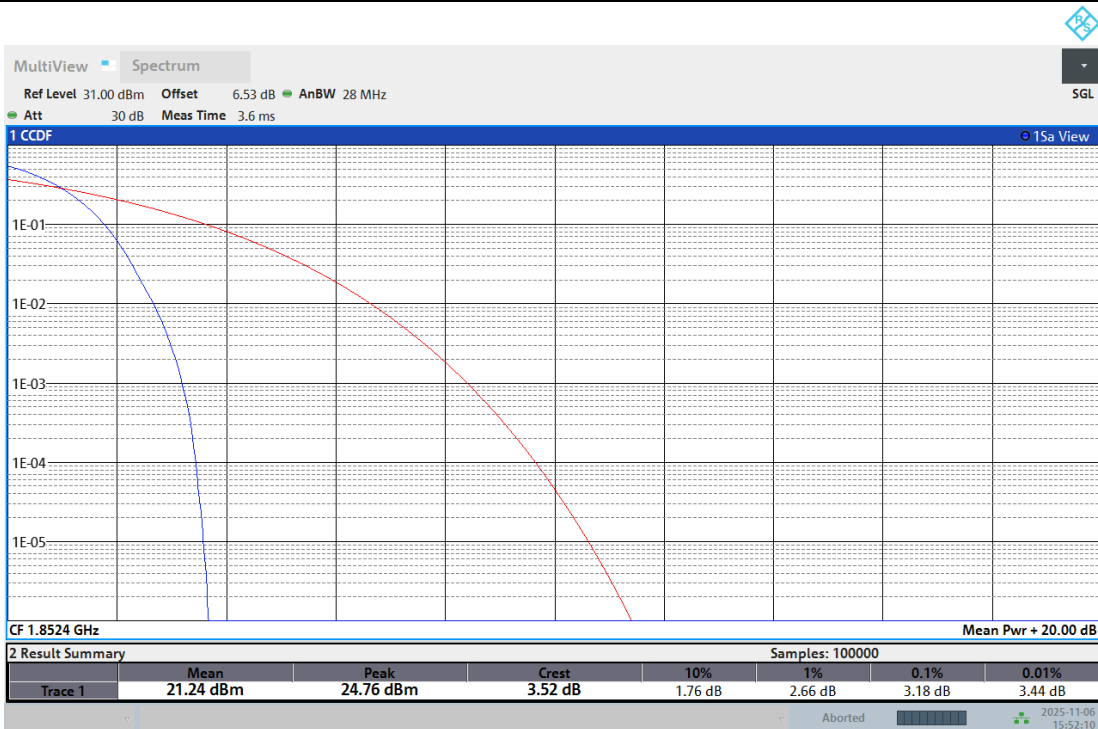
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band II	9262	3.18	13	PASS
Band II	9400	3.18	13	PASS
Band II	9538	3.12	13	PASS

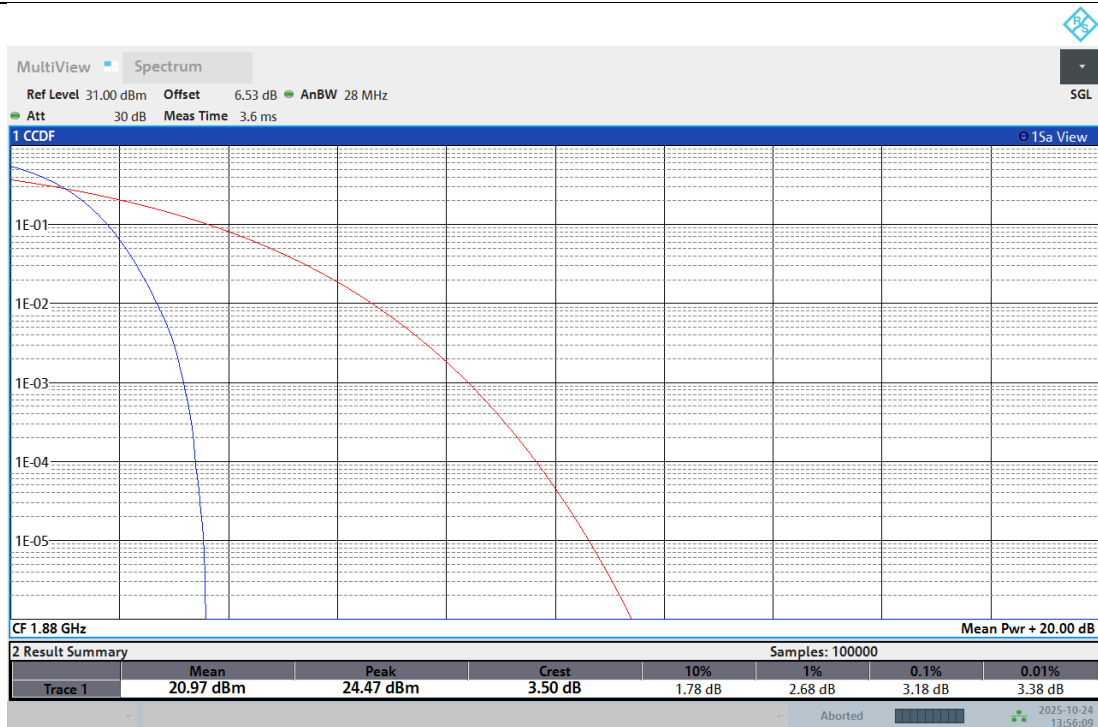


Test Graphs

Channel-9262-PASS



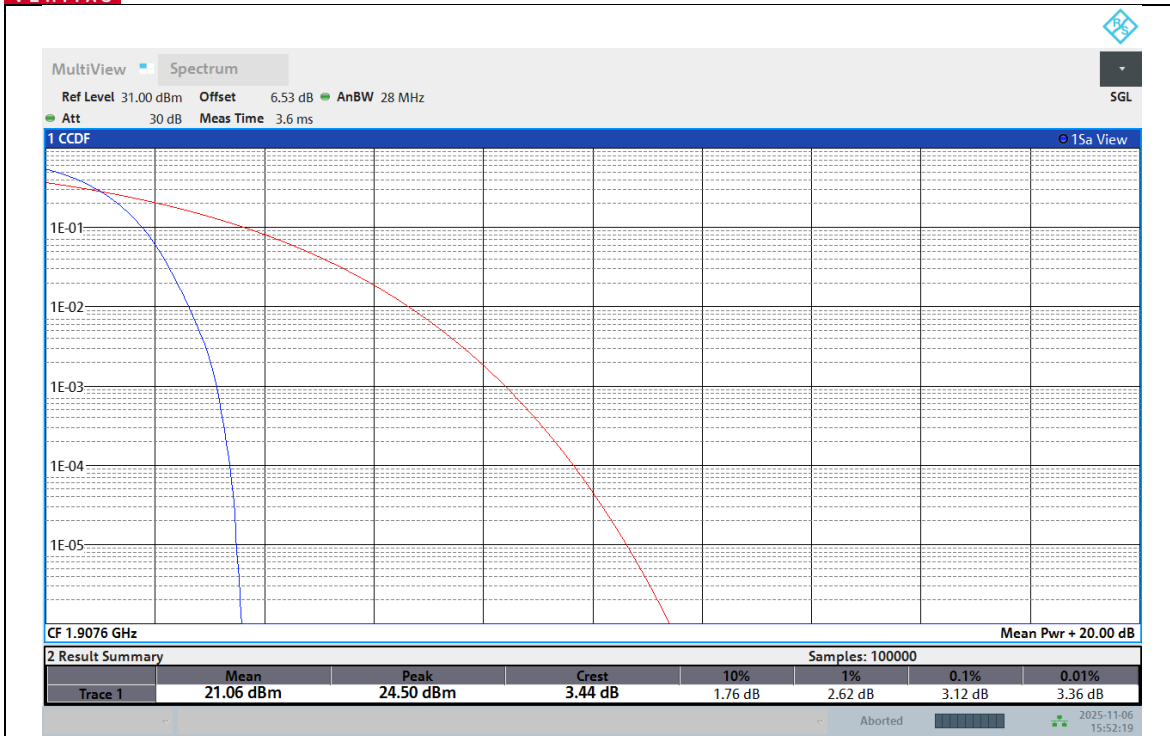
Channel-9400-PASS



Channel-9538-PASS



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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

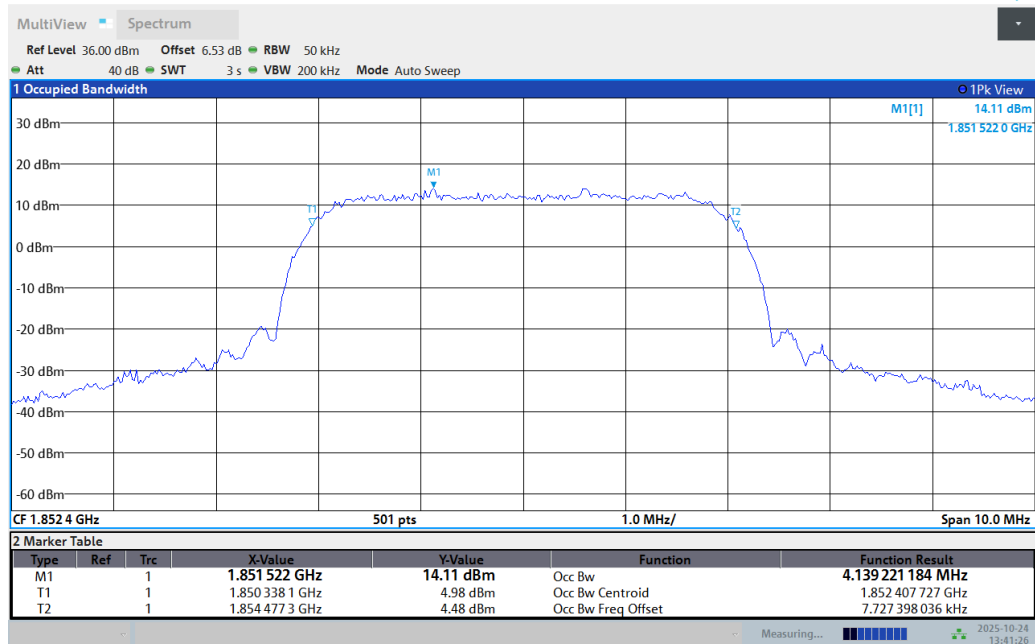
Test Result

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)
1852.4	4.139
1880	4.146
1907.6	4.149

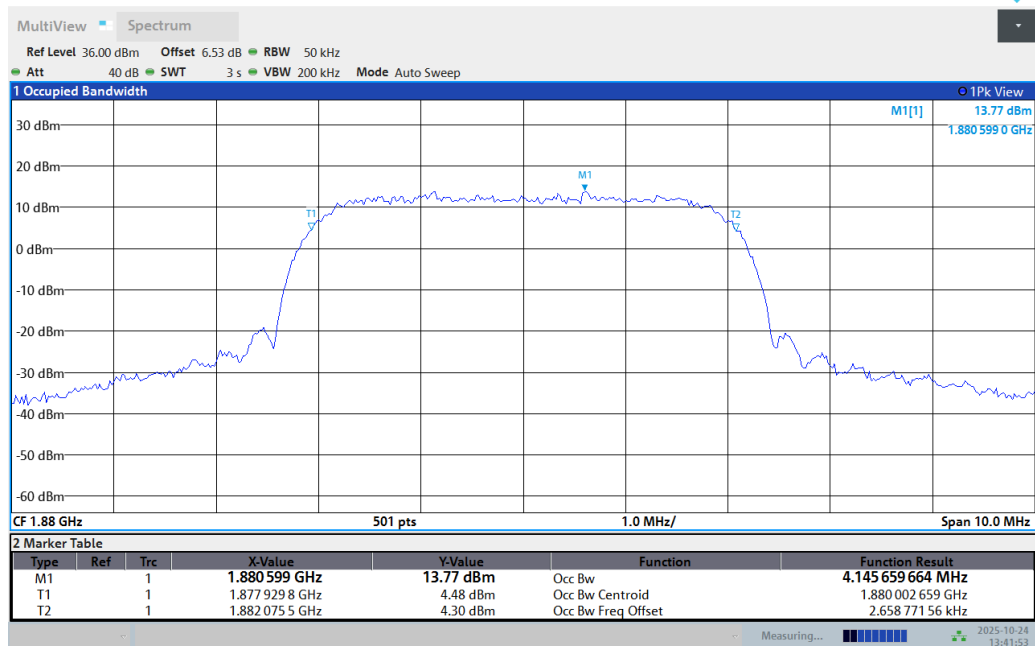


Test Graphs

Channel 9262-Occupied Bandwidth (99% BW)



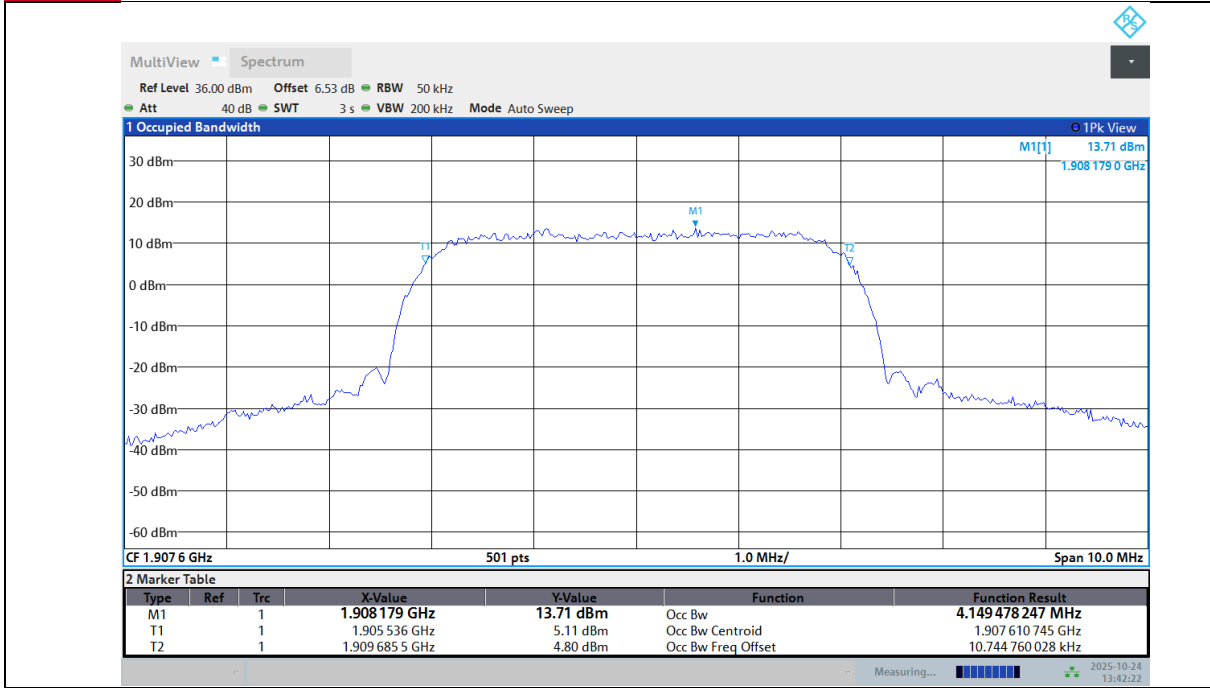
Channel 9400-Occupied Bandwidth (99% BW)



Channel 9538-Occupied Bandwidth (99% BW)



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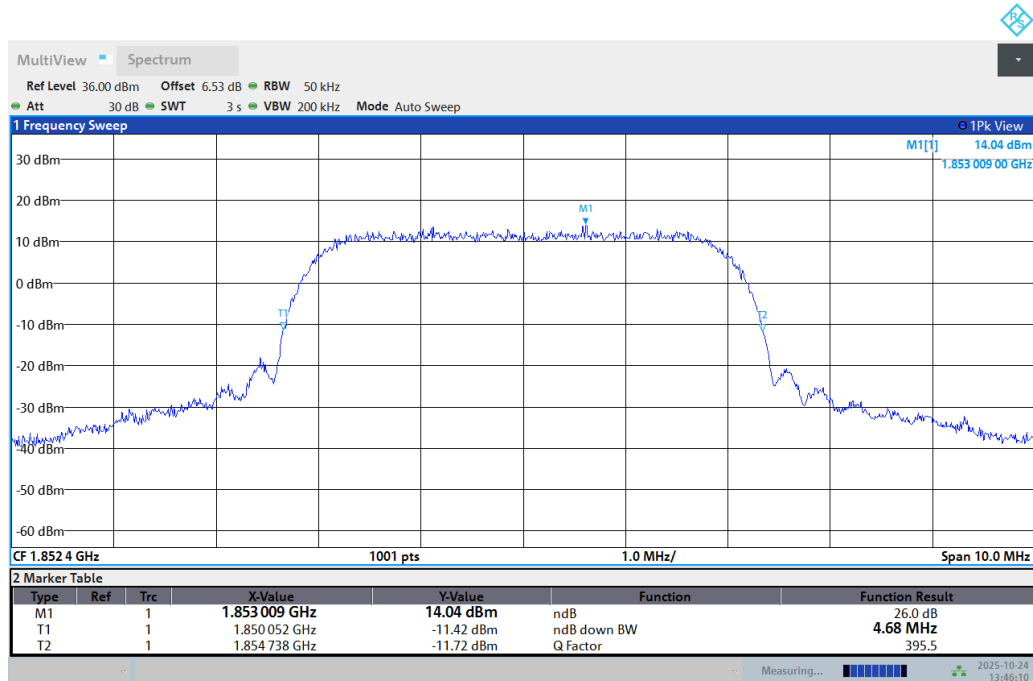




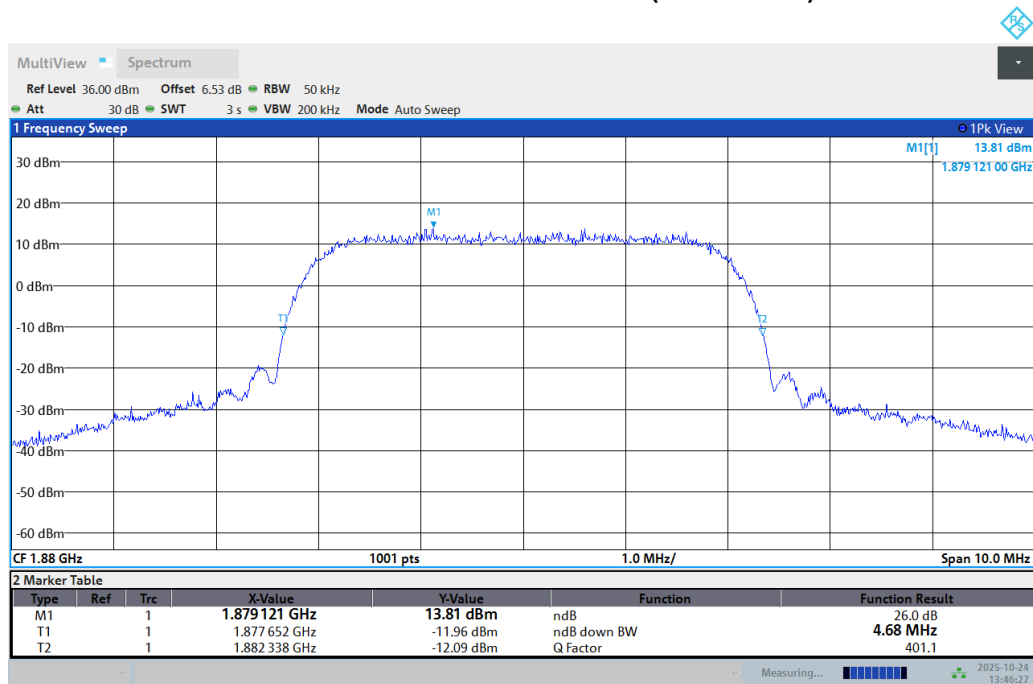
Frequency (MHz)	Emission Bandwidth (-26dBc)(MHz)
1852.4	4.68
1880	4.68
1907.6	4.71



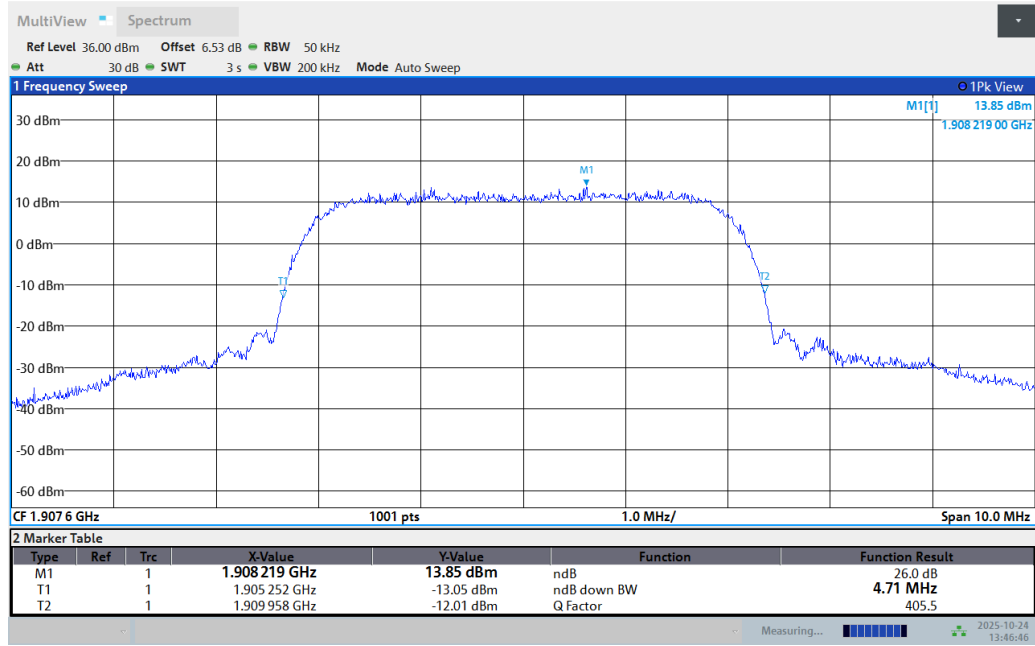
Channel 9262-Emission Bandwidth (-26dBc BW)



Channel 9400-Emission Bandwidth (-26dBc BW)



Channel 9538-Emission Bandwidth (-26dBc BW)





BAND EDGE

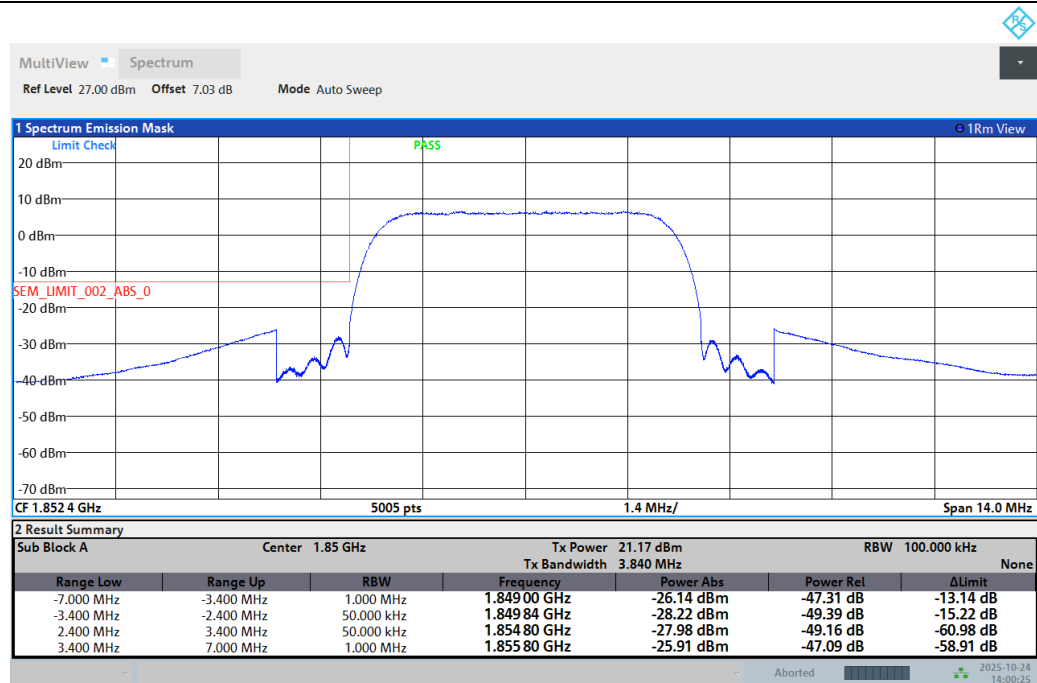
Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band II	9262	1849.84	-28.22	-13	PASS
Band II	9538	1910.00	-26.57	-13	PASS

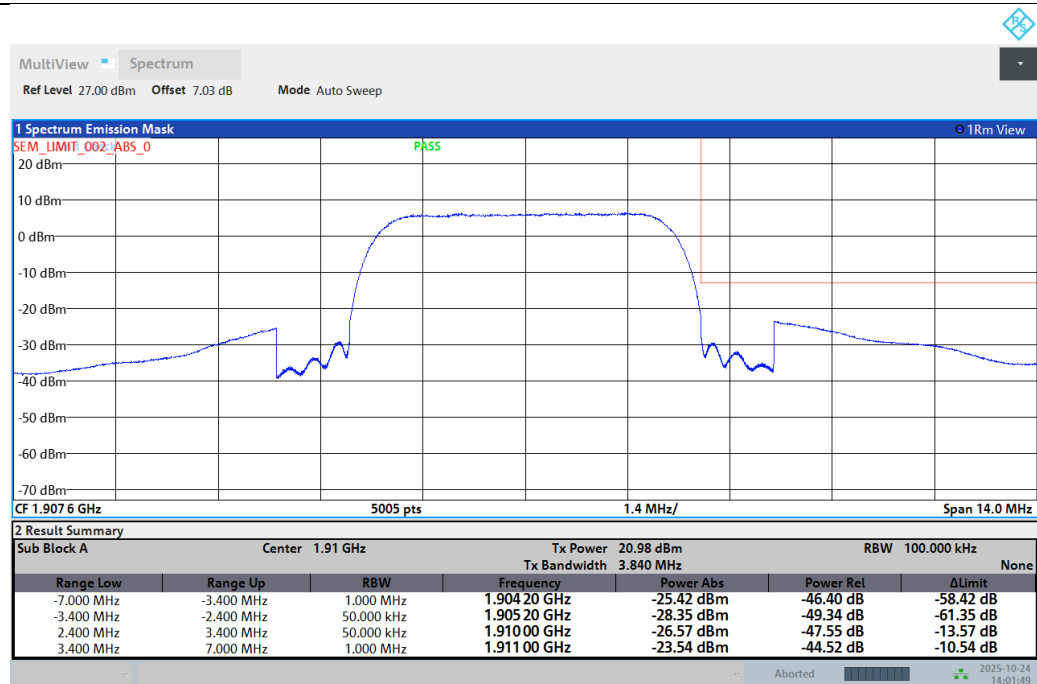


Test Graphs

Channel 9262



Channel 9538





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CONDUCTED SPURIOUS EMISSION

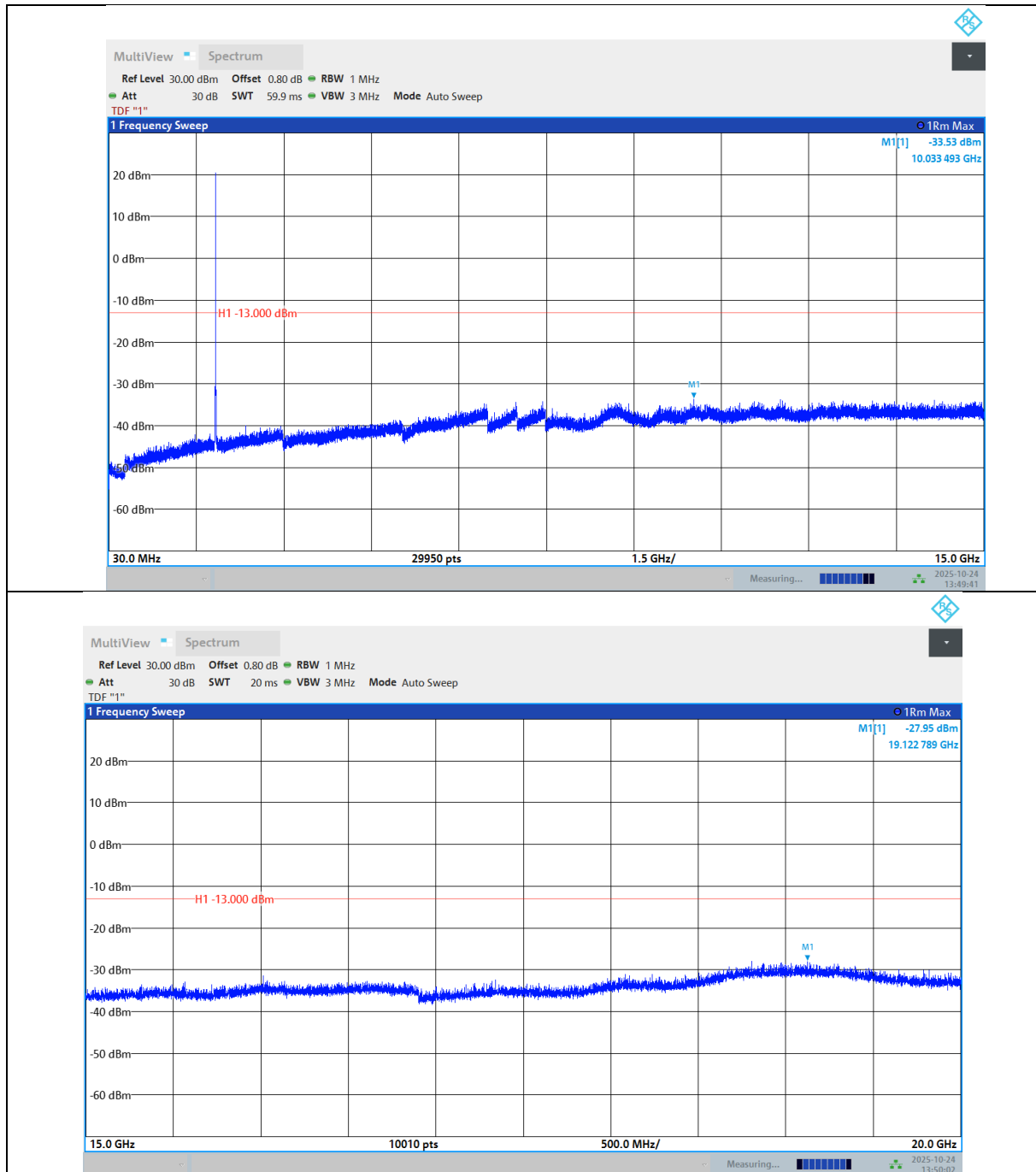
Test Result

Band	Channel	Frequency Range (Mhz)	Result (dBm)	Limit (dBm)	Verdict
Band II	9262	30~15000MHz	See Graph	-13	PASS
Band II	9262	15000~20000MHz	See Graph	-13	PASS
Band II	9400	30~15000MHz	See Graph	-13	PASS
Band II	9400	15000~20000MHz	See Graph	-13	PASS
Band II	9538	30~15000MHz	See Graph	-13	PASS
Band II	9538	15000~20000MHz	See Graph	-13	PASS



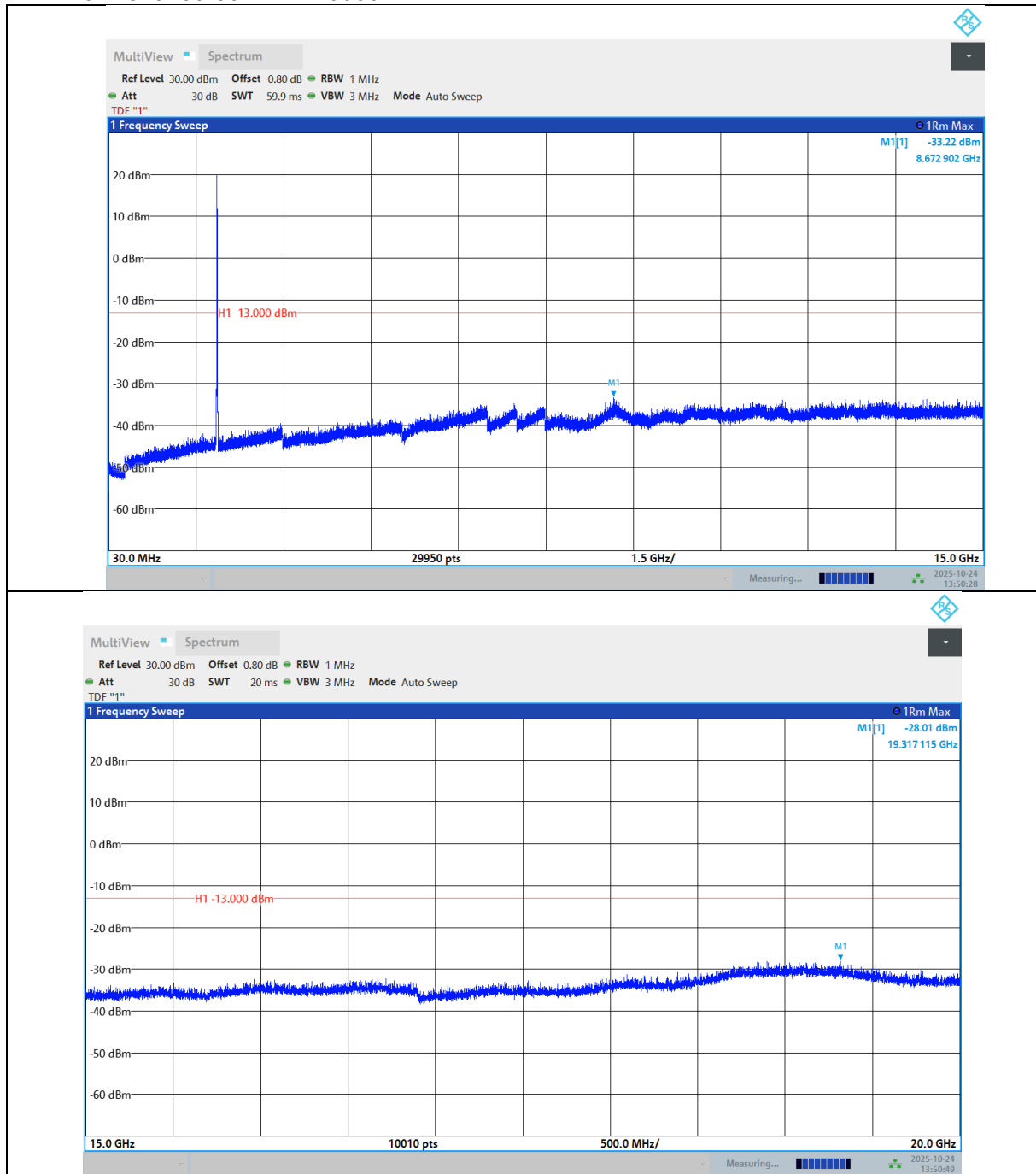
Test Graphs

Channel 9262:30MHZ - 20000MHZ



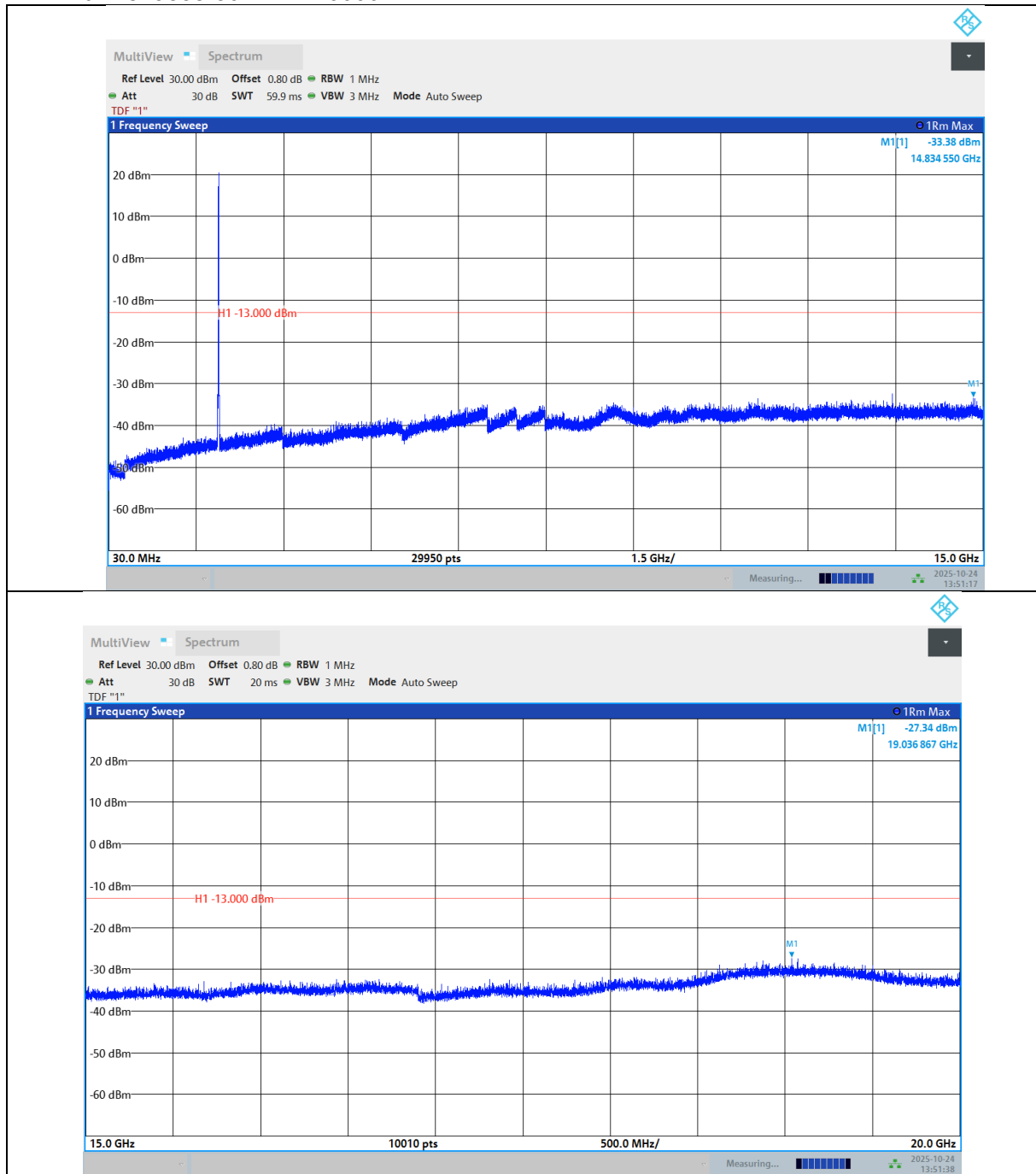


Channel 9400:30MHZ - 20000MHZ





Channel 9538:30MHZ - 20000MHZ





Frequency Stability

Test Result

Voltage						
Band	Channel	Voltage[Vdc]	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
Band II	9262	LV	NT	-100.06	-0.0108	PASS
Band II	9262	NV	NT	-31.35	-0.0034	PASS
Band II	9262	HV	NT	-38.53	-0.0042	PASS
Band II	9400	LV	NT	-61.17	-0.0065	PASS
Band II	9400	NV	NT	-166.58	-0.0177	PASS
Band II	9400	HV	NT	3.43	0.0004	PASS
Band II	9538	LV	NT	-176.18	-0.0185	PASS
Band II	9538	NV	NT	-42.74	-0.0045	PASS
Band II	9538	HV	NT	-12.16	-0.0013	PASS



Temperature						
Band	Channel	Voltage[Vdc]	Temperature(°C)	Deviation(Hz)	Deviation(ppm)	Verdict
Band II	9262	NV	-30	-97.96	-0.0106	PASS
Band II	9262	NV	-20	-55.44	-0.0060	PASS
Band II	9262	NV	-10	-149.24	-0.0161	PASS
Band II	9262	NV	0	-67.70	-0.0073	PASS
Band II	9262	NV	10	10.22	0.0011	PASS
Band II	9262	NV	20	-39.47	-0.0043	PASS
Band II	9262	NV	30	-151.11	-0.0163	PASS
Band II	9262	NV	40	-26.48	-0.0029	PASS
Band II	9262	NV	50	-118.25	-0.0128	PASS
Band II	9400	NV	-30	-125.69	-0.0134	PASS
Band II	9400	NV	-20	-175.83	-0.0187	PASS
Band II	9400	NV	-10	-84.53	-0.0090	PASS
Band II	9400	NV	0	-48.53	-0.0052	PASS
Band II	9400	NV	10	-19.22	-0.0020	PASS
Band II	9400	NV	20	-97.89	-0.0104	PASS
Band II	9400	NV	30	-88.12	-0.0094	PASS
Band II	9400	NV	40	-41.30	-0.0044	PASS
Band II	9400	NV	50	-107.90	-0.0115	PASS
Band II	9538	NV	-30	-67.25	-0.0071	PASS
Band II	9538	NV	-20	-0.83	-0.0001	PASS
Band II	9538	NV	-10	-127.41	-0.0134	PASS
Band II	9538	NV	0	-8.60	-0.0009	PASS
Band II	9538	NV	10	-30.47	-0.0032	PASS
Band II	9538	NV	20	-134.00	-0.0140	PASS
Band II	9538	NV	30	-146.95	-0.0154	PASS
Band II	9538	NV	40	-82.83	-0.0087	PASS
Band II	9538	NV	50	-91.34	-0.0096	PASS

Note: The fundamental emission stays within the authorized frequency block based on the frequency stability is small.



LTE BAND 25(INCLUDING LTE BAND2)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
1.4MHz	QPSK	26047	1RB Low	5.78	13	PASS
1.4MHz	QPSK	26047	Full RB	5.56	13	PASS
1.4MHz	16QAM	26047	1RB Low	6.30	13	PASS
1.4MHz	16QAM	26047	Full RB	6.38	13	PASS
1.4MHz	64QAM	26047	1RB Low	6.80	13	PASS
1.4MHz	64QAM	26047	Full RB	6.78	13	PASS
1.4MHz	QPSK	26365	1RB Low	5.52	13	PASS
1.4MHz	QPSK	26365	Full RB	5.82	13	PASS
1.4MHz	16QAM	26365	1RB Low	6.72	13	PASS
1.4MHz	16QAM	26365	Full RB	6.66	13	PASS
1.4MHz	64QAM	26365	1RB Low	6.50	13	PASS
1.4MHz	64QAM	26365	Full RB	6.78	13	PASS
1.4MHz	QPSK	26683	1RB Low	3.88	13	PASS
1.4MHz	QPSK	26683	Full RB	4.18	13	PASS
1.4MHz	16QAM	26683	1RB Low	4.76	13	PASS
1.4MHz	16QAM	26683	Full RB	5.06	13	PASS
1.4MHz	64QAM	26683	1RB Low	5.64	13	PASS
1.4MHz	64QAM	26683	Full RB	5.68	13	PASS
3MHz	QPSK	26055	1RB Low	5.80	13	PASS
3MHz	QPSK	26055	Full RB	5.50	13	PASS
3MHz	16QAM	26055	1RB Low	6.28	13	PASS
3MHz	16QAM	26055	Full RB	6.28	13	PASS
3MHz	64QAM	26055	1RB Low	6.50	13	PASS
3MHz	64QAM	26055	Full RB	6.76	13	PASS
3MHz	QPSK	26365	1RB Low	5.30	13	PASS
3MHz	QPSK	26365	Full RB	5.74	13	PASS
3MHz	16QAM	26365	1RB Low	6.72	13	PASS
3MHz	16QAM	26365	Full RB	6.58	13	PASS
3MHz	64QAM	26365	1RB Low	6.68	13	PASS
3MHz	64QAM	26365	Full RB	6.86	13	PASS
3MHz	QPSK	26675	1RB Low	4.12	13	PASS
3MHz	QPSK	26675	Full RB	3.96	13	PASS
3MHz	16QAM	26675	1RB Low	4.58	13	PASS
3MHz	16QAM	26675	Full RB	4.84	13	PASS
3MHz	64QAM	26675	1RB Low	5.50	13	PASS
3MHz	64QAM	26675	Full RB	5.46	13	PASS
5MHz	QPSK	26065	1RB Low	5.70	13	PASS
5MHz	QPSK	26065	Full RB	5.26	13	PASS
5MHz	16QAM	26065	1RB Low	6.02	13	PASS
5MHz	16QAM	26065	Full RB	6.10	13	PASS
5MHz	64QAM	26065	1RB Low	6.54	13	PASS
5MHz	64QAM	26065	Full RB	6.56	13	PASS
5MHz	QPSK	26365	1RB Low	5.54	13	PASS
5MHz	QPSK	26365	Full RB	5.80	13	PASS

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5MHz	16QAM	26365	1RB Low	5.72	13	PASS
5MHz	16QAM	26365	Full RB	6.42	13	PASS
5MHz	64QAM	26365	1RB Low	6.78	13	PASS
5MHz	64QAM	26365	Full RB	6.86	13	PASS
5MHz	QPSK	26665	1RB Low	4.22	13	PASS
5MHz	QPSK	26665	Full RB	3.84	13	PASS
5MHz	16QAM	26665	1RB Low	4.68	13	PASS
5MHz	16QAM	26665	Full RB	4.78	13	PASS
5MHz	64QAM	26665	1RB Low	5.68	13	PASS
5MHz	64QAM	26665	Full RB	5.40	13	PASS
10MHz	QPSK	26090	1RB Low	5.72	13	PASS
10MHz	QPSK	26090	Full RB	5.14	13	PASS
10MHz	16QAM	26090	1RB Low	6.22	13	PASS
10MHz	16QAM	26090	Full RB	5.94	13	PASS
10MHz	64QAM	26090	1RB Low	6.42	13	PASS
10MHz	64QAM	26090	Full RB	6.42	13	PASS
10MHz	QPSK	26365	1RB Low	5.52	13	PASS
10MHz	QPSK	26365	Full RB	5.68	13	PASS
10MHz	16QAM	26365	1RB Low	6.86	13	PASS
10MHz	16QAM	26365	Full RB	6.50	13	PASS
10MHz	64QAM	26365	1RB Low	7.14	13	PASS
10MHz	64QAM	26365	Full RB	6.86	13	PASS
10MHz	QPSK	26640	1RB Low	5.56	13	PASS
10MHz	QPSK	26640	Full RB	4.90	13	PASS
10MHz	16QAM	26640	1RB Low	5.94	13	PASS
10MHz	16QAM	26640	Full RB	5.88	13	PASS
10MHz	64QAM	26640	1RB Low	6.90	13	PASS
10MHz	64QAM	26640	Full RB	6.28	13	PASS
15MHz	QPSK	26115	1RB Low	5.82	13	PASS
15MHz	QPSK	26115	Full RB	5.26	13	PASS
15MHz	16QAM	26115	1RB Low	6.20	13	PASS
15MHz	16QAM	26115	Full RB	5.96	13	PASS
15MHz	64QAM	26115	1RB Low	6.52	13	PASS
15MHz	64QAM	26115	Full RB	6.42	13	PASS
15MHz	QPSK	26365	1RB Low	5.62	13	PASS
15MHz	QPSK	26365	Full RB	5.92	13	PASS
15MHz	16QAM	26365	1RB Low	6.88	13	PASS
15MHz	16QAM	26365	Full RB	6.56	13	PASS
15MHz	64QAM	26365	1RB Low	7.22	13	PASS
15MHz	64QAM	26365	Full RB	6.92	13	PASS
15MHz	QPSK	26615	1RB Low	5.34	13	PASS
15MHz	QPSK	26615	Full RB	5.44	13	PASS
15MHz	16QAM	26615	1RB Low	6.06	13	PASS
15MHz	16QAM	26615	Full RB	6.08	13	PASS
15MHz	64QAM	26615	1RB Low	6.88	13	PASS
15MHz	64QAM	26615	Full RB	6.46	13	PASS
20MHz	QPSK	26140	1RB Low	5.46	13	PASS
20MHz	QPSK	26140	Full RB	5.14	13	PASS
20MHz	16QAM	26140	1RB Low	5.58	13	PASS
20MHz	16QAM	26140	Full RB	6.00	13	PASS
20MHz	64QAM	26140	1RB Low	6.46	13	PASS
20MHz	64QAM	26140	Full RB	6.52	13	PASS
20MHz	QPSK	26365	1RB Low	5.72	13	PASS
20MHz	QPSK	26365	Full RB	5.22	13	PASS



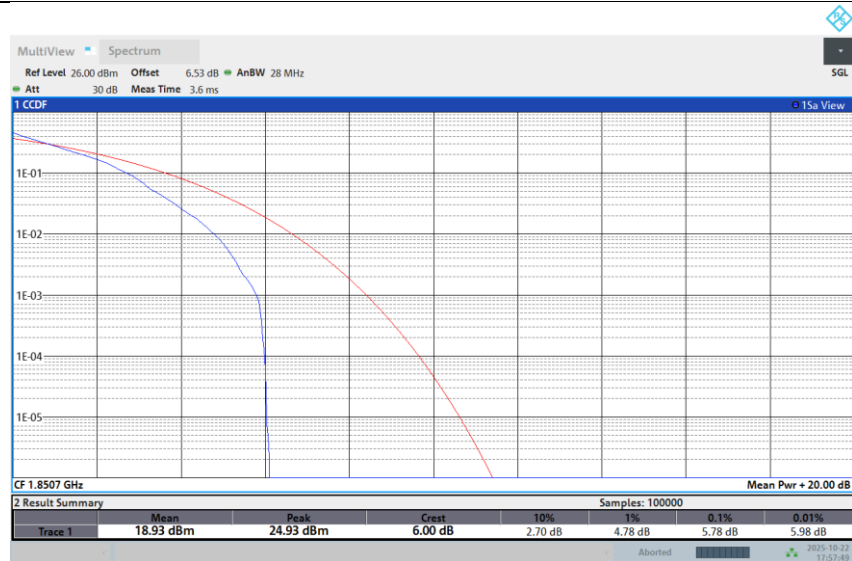
BUREAU VERITAS Test Report No.: PSU-NQN2509250114RF07

20MHz	16QAM	26365	1RB Low	6.32	13	PASS
20MHz	16QAM	26365	Full RB	6.42	13	PASS
20MHz	64QAM	26365	1RB Low	6.66	13	PASS
20MHz	64QAM	26365	Full RB	6.52	13	PASS
20MHz	QPSK	26590	1RB Low	4.3	13	PASS
20MHz	QPSK	26590	Full RB	5.42	13	PASS
20MHz	16QAM	26590	1RB Low	5.2	13	PASS
20MHz	16QAM	26590	Full RB	6.2	13	PASS
20MHz	64QAM	26590	1RB Low	5.76	13	PASS
20MHz	64QAM	26590	Full RB	6.74	13	PASS

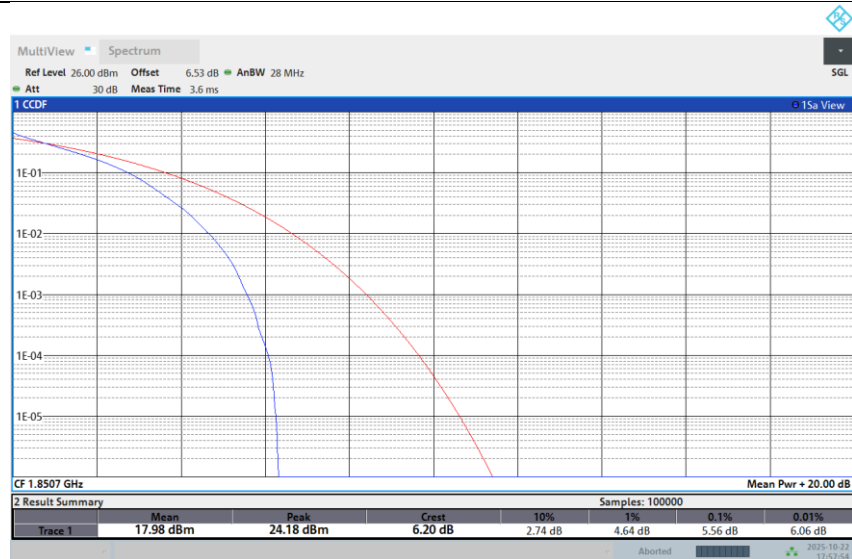


Test Graphs

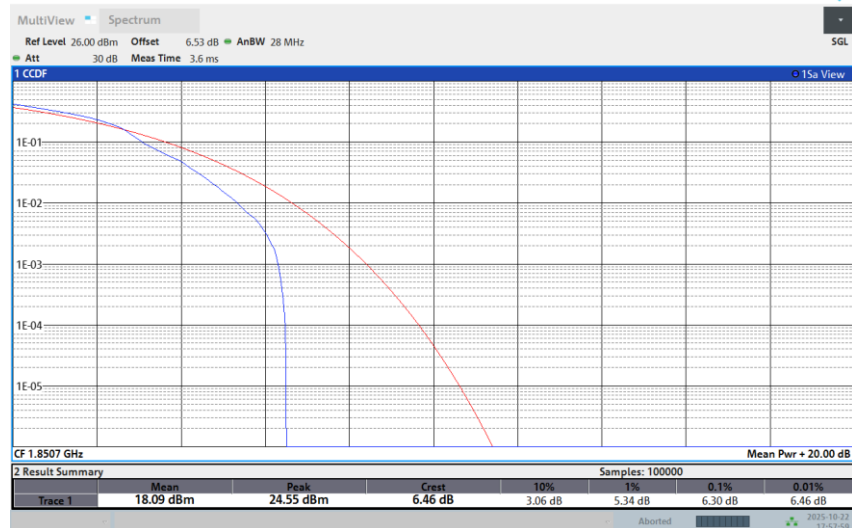
Band 25-1.4M-LOW-QPSK-1RB Low



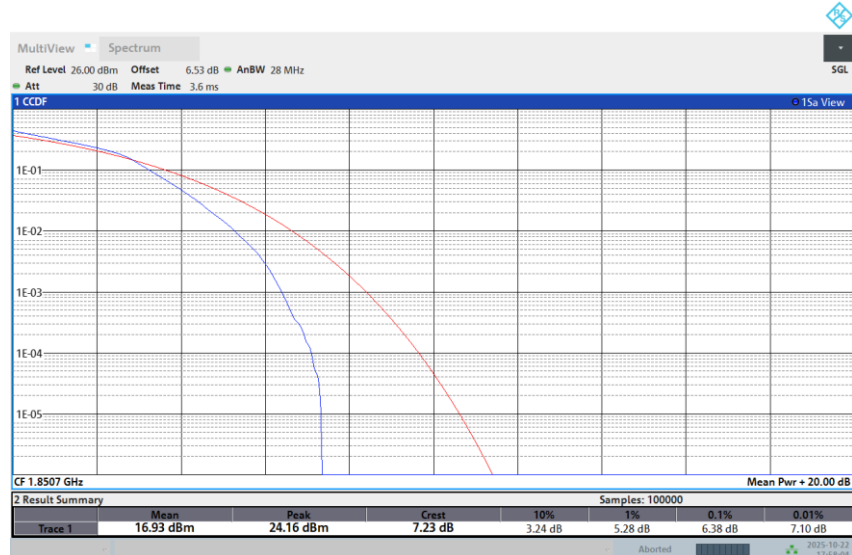
Band 25-1.4M-LOW-QPSK-Full RB



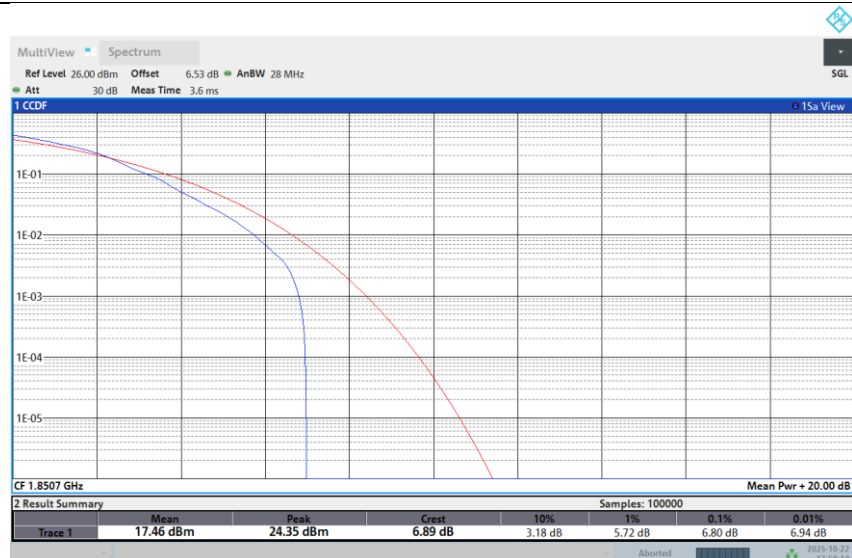
Band 25-1.4M-LOW-16QAM-1RB Low



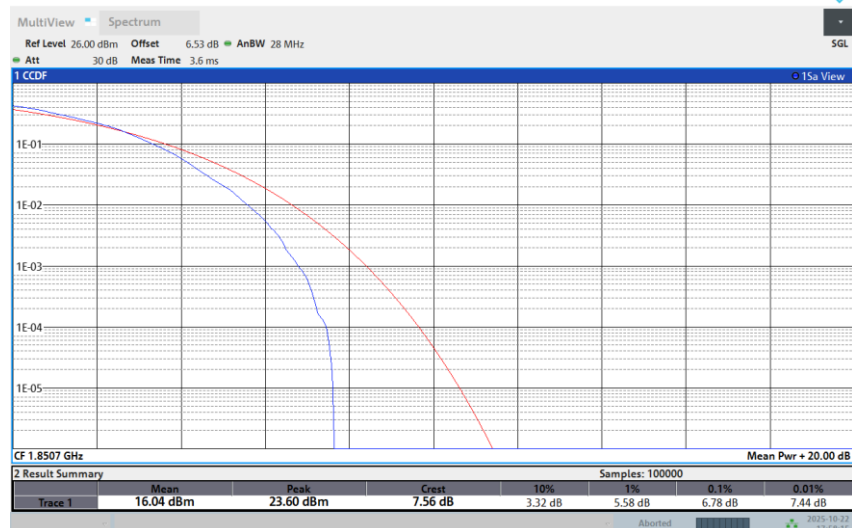
Band 25-1.4M-LOW-16QAM-Full RB



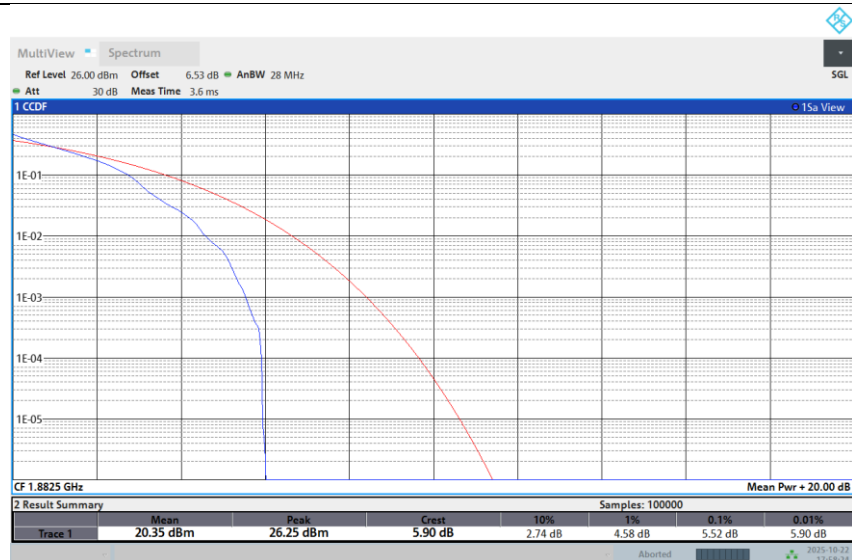
Band 25-1.4M-LOW-64QAM-1RB Low



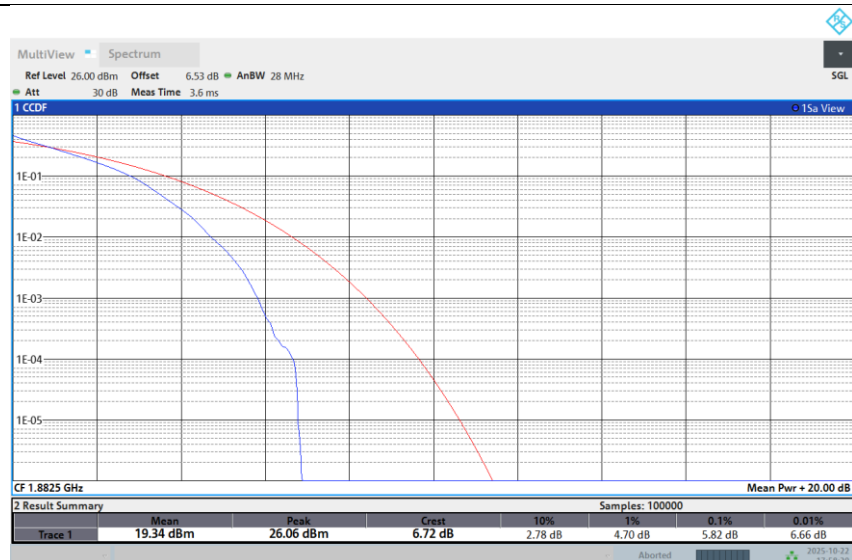
Band 25-1.4M-LOW-64QAM-Full RB



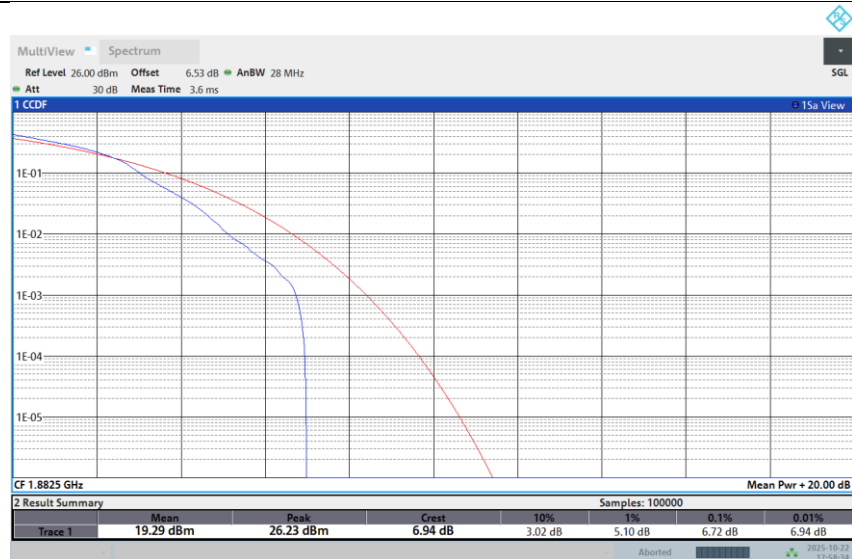
Band 25-1.4M-MID-QPSK-1RB Low



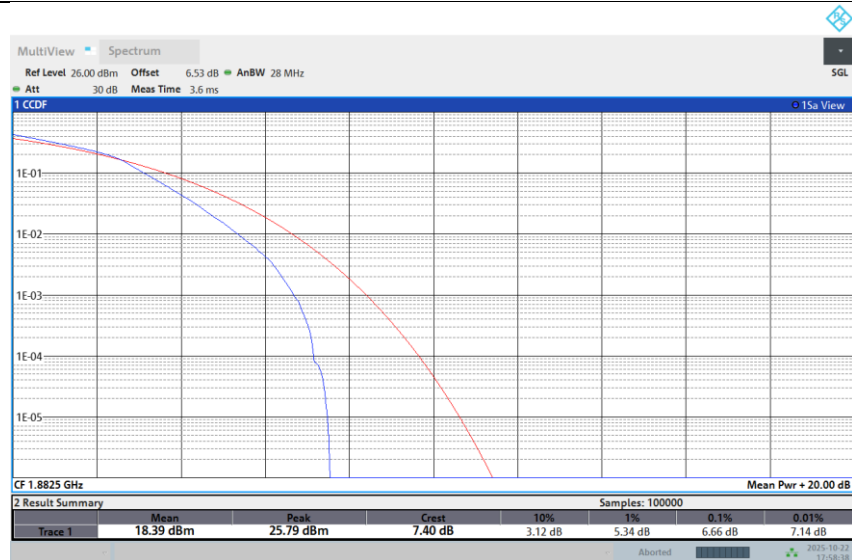
Band 25-1.4M-MID-QPSK-Full RB



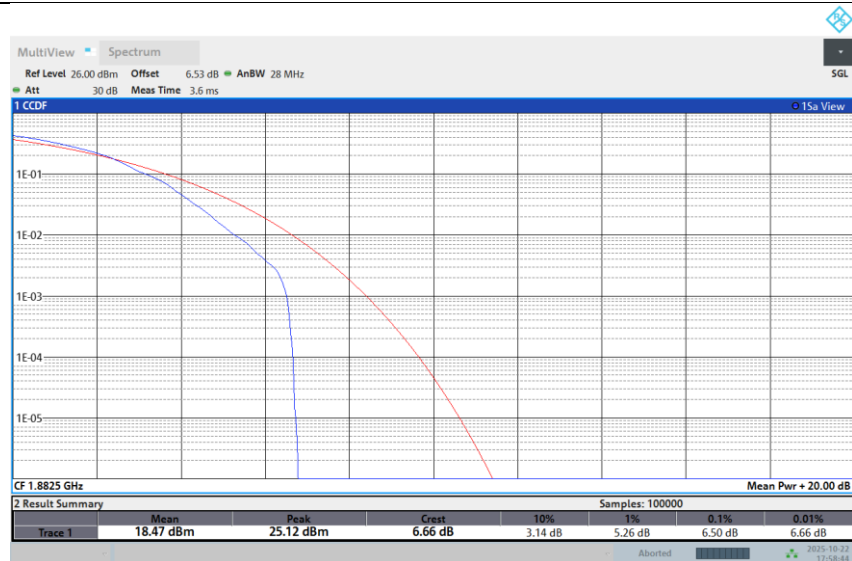
Band 25-1.4M-MID-16QAM-1RB Low



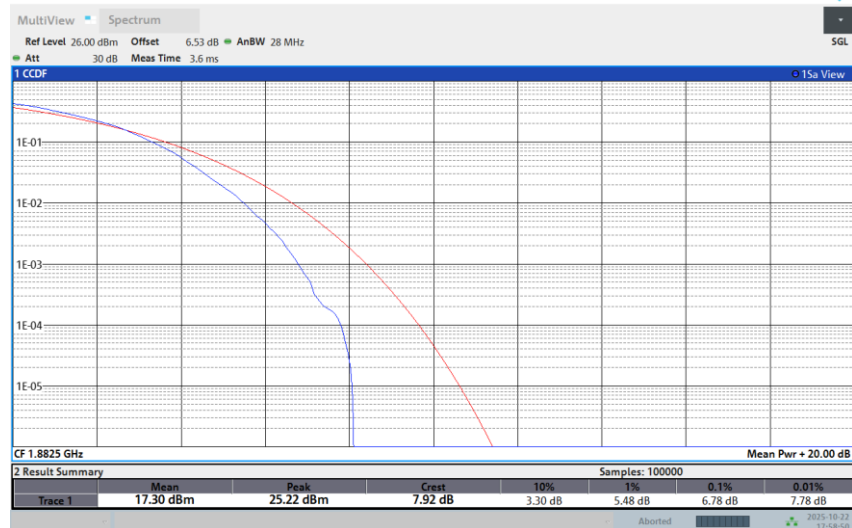
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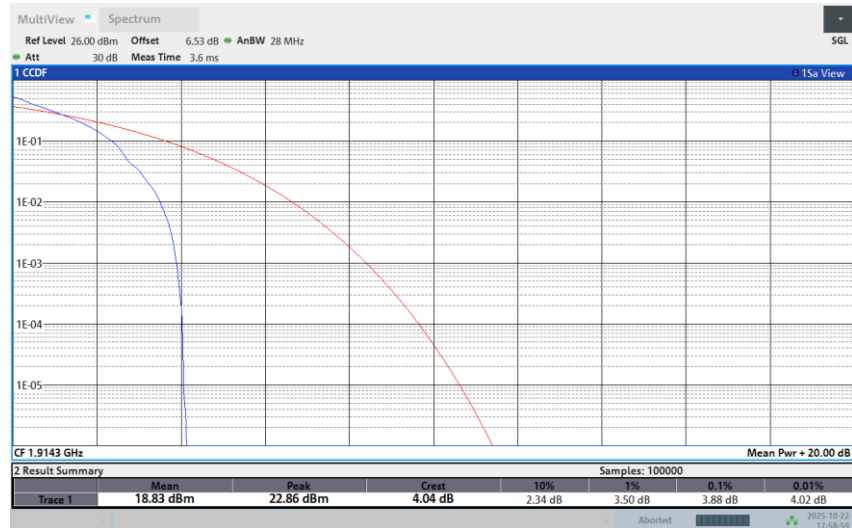
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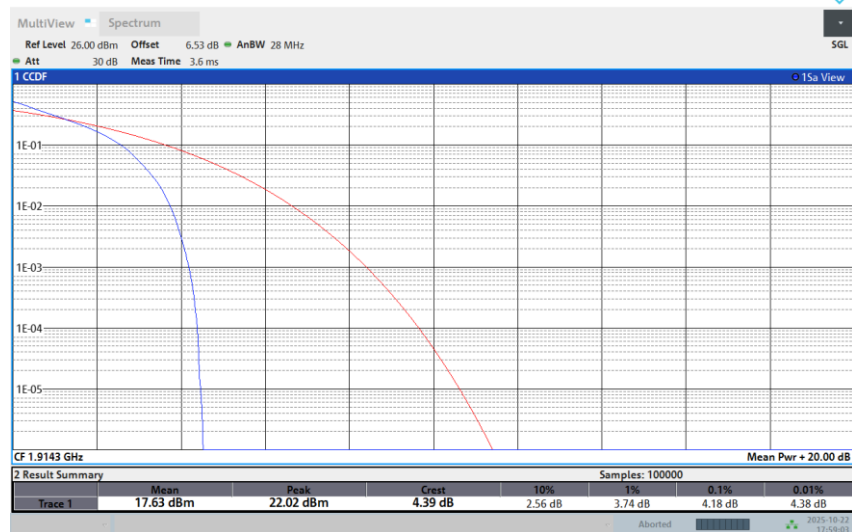
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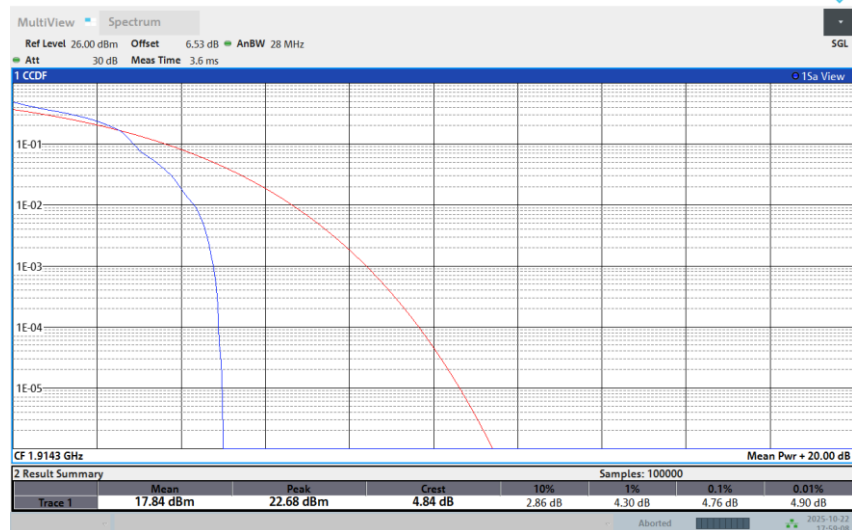
Band 25-1.4M-HIGH-QPSK-1RB Low



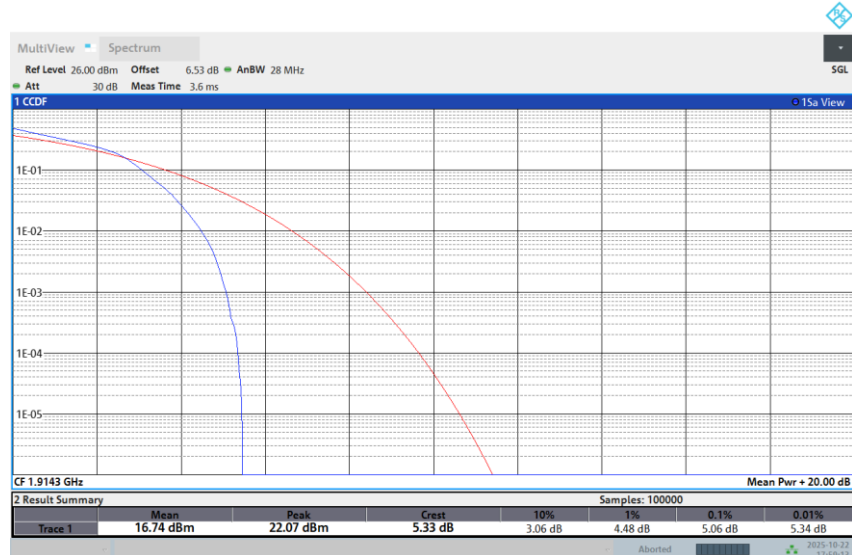
Band 25-1.4M-HIGH-QPSK-Full RB



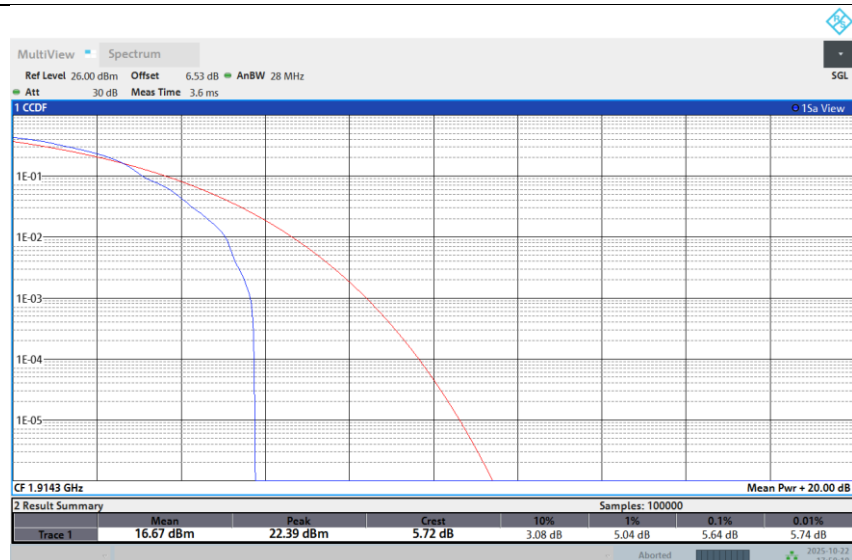
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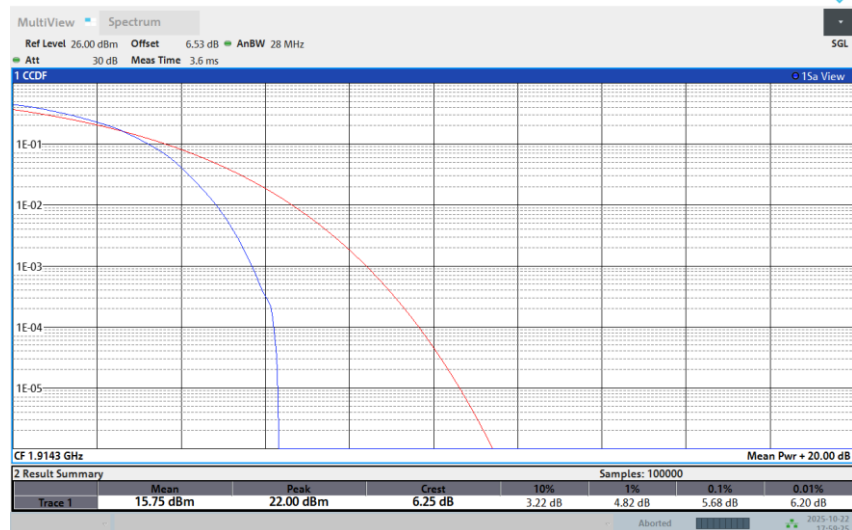
Band 25-1.4M-HIGH-16QAM-Full RB



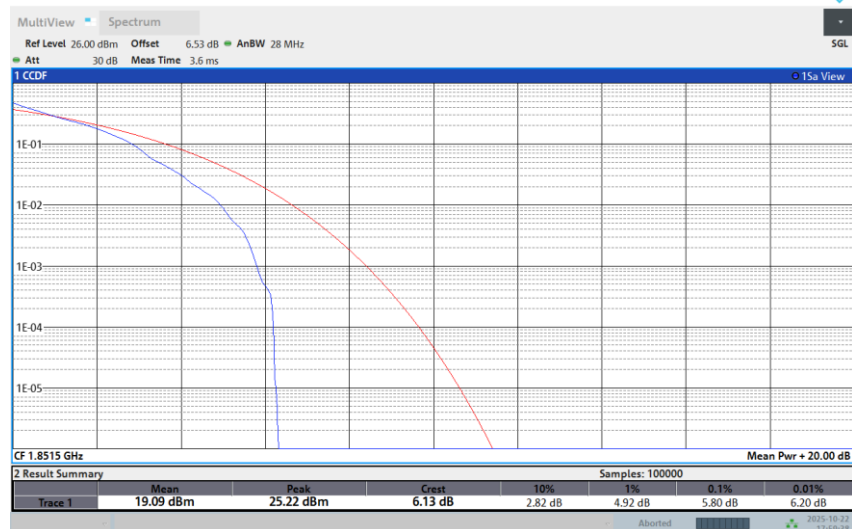
Band 25-1.4M-HIGH-64QAM-1RB Low



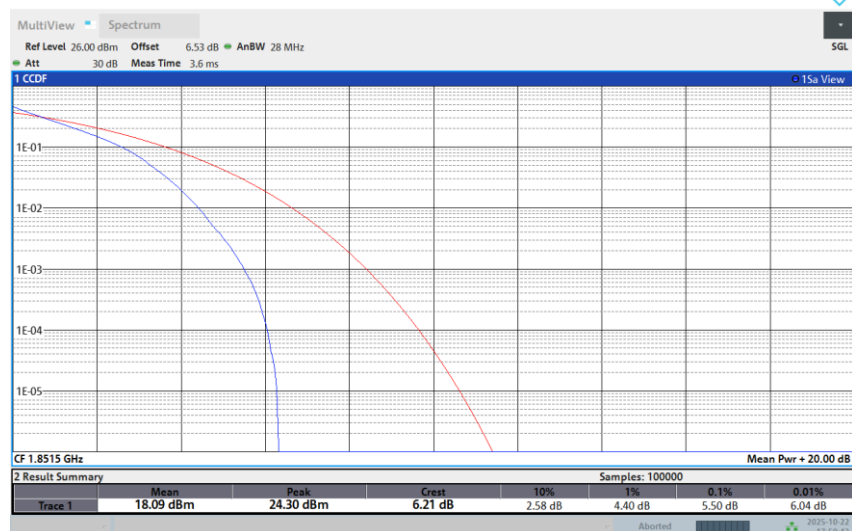
Band 25-1.4M-HIGH-64QAM-Full RB



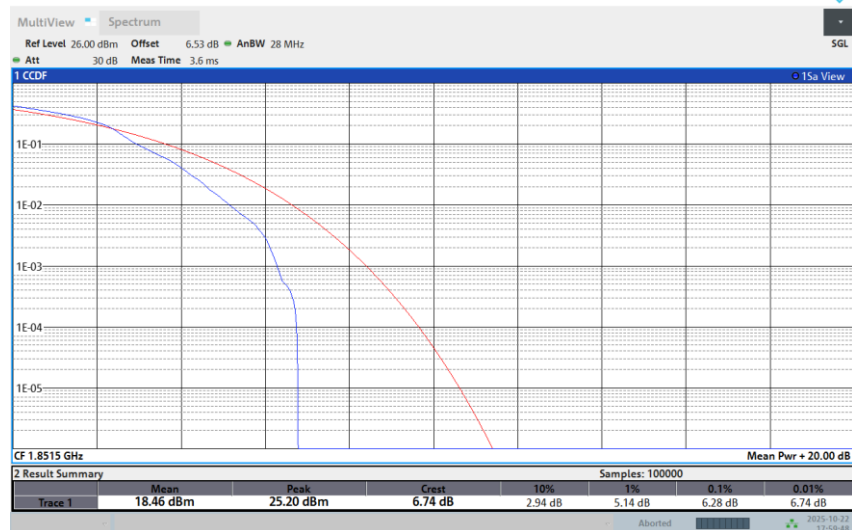
Band 25-3M-LOW-QPSK-1RB Low



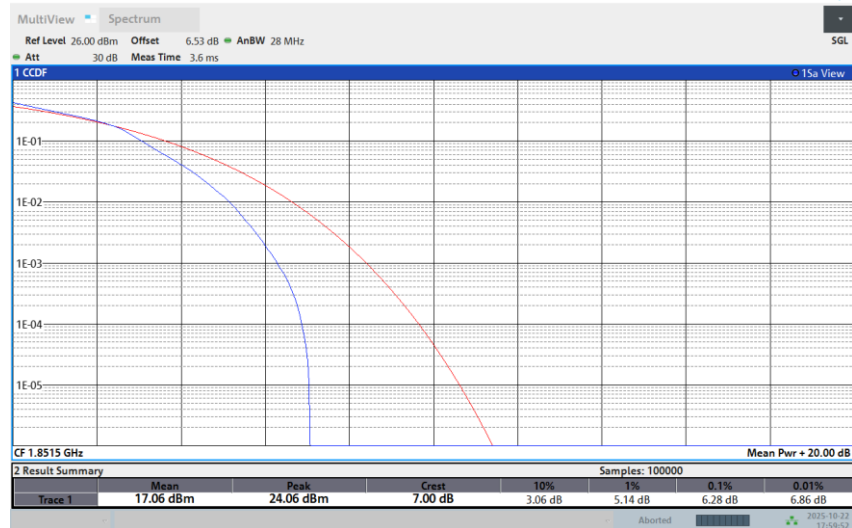
Band 25-3M-LOW-QPSK-Full RB



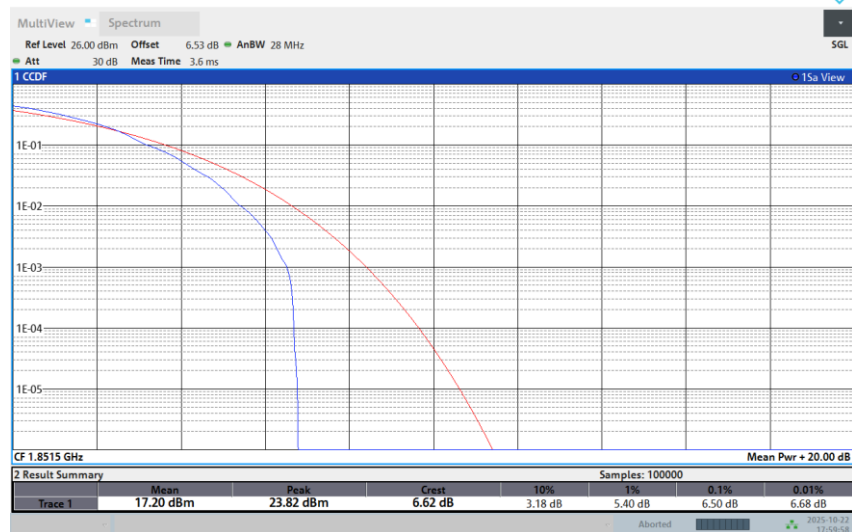
Band 25-3M-LOW-16QAM-1RB Low



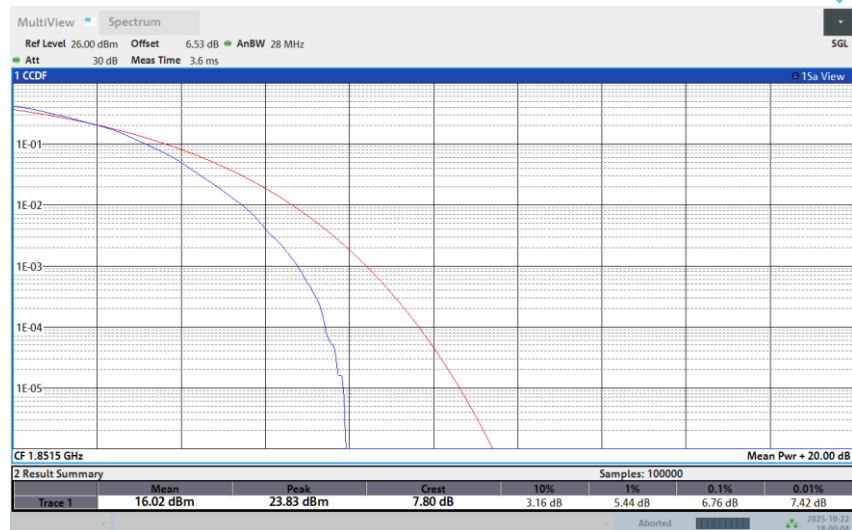
Band 25-3M-LOW-16QAM-Full RB



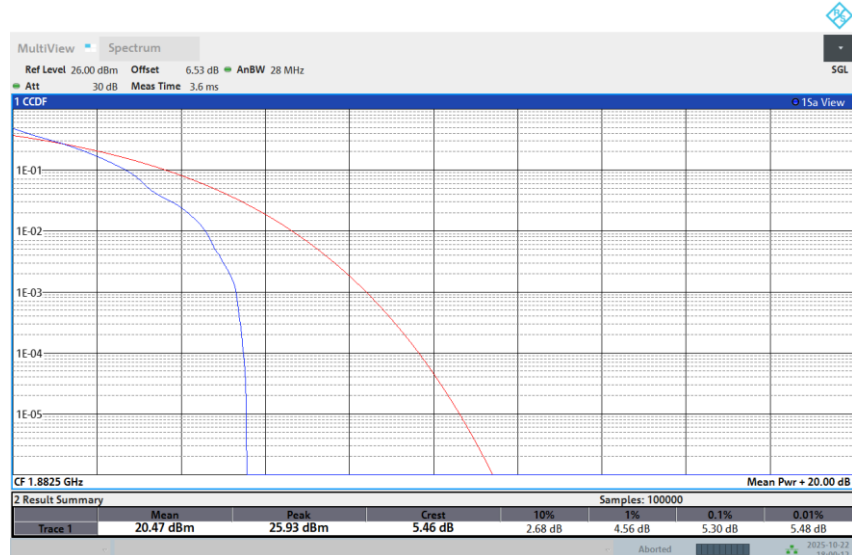
Band 25-3M-LOW-64QAM-1RB Low



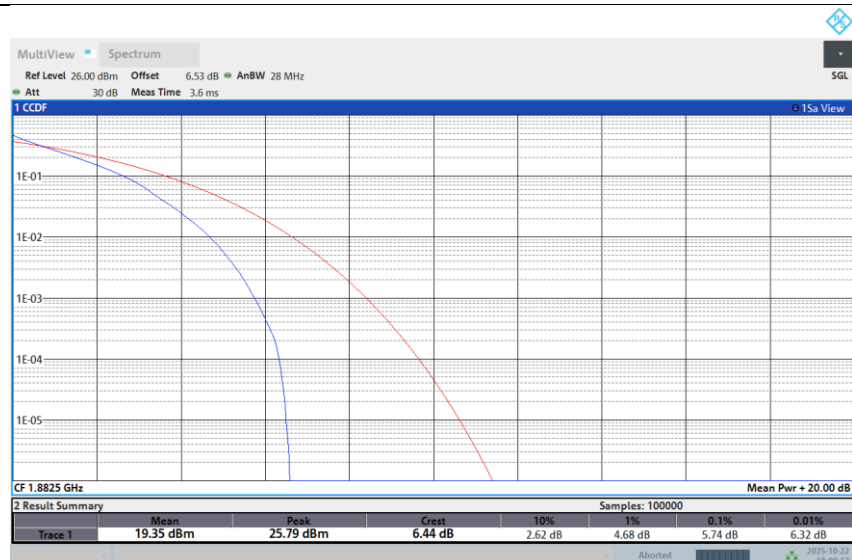
Band 25-3M-LOW-64QAM-Full RB



Band 25-3M-MID-QPSK-1RB Low



Band 25-3M-MID-QPSK-Full RB



Band 25-3M-MID-16QAM-1RB Low