



Test Report No.: PSZ-NQN2303280110RF08



Certificate #6613.01

FCC TEST REPORT (PART 27)

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9 Espoo 02600 Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9 Espoo 02600 Finland
Product:	Smart Phone
Brand Name:	NOKIA
Model Name:	TA-1584
FCC ID:	2AJOTTA-1584
Date of tests:	May. 04, 2023 ~ Jun. 01, 2023

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

- FCC Part 27 ANSI/TIA/EIA-603-D
- FCC Part 2 ANSI/TIA/EIA-603-E ANSI C63.26-2015

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

Prepared by Chao Wu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
 Date: Jun. 01, 2023	 Date: Jun. 01, 2023

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSZ-NQN2303280110RF08	Original release	Jun. 01, 2023



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§27.50(d)(4) §27.50(h)(2)	Equivalent Isotropically Radiated Power (Band 4) (Band 41) (Band 66)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §27.53(h) §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 4) (Band 41) (Band 66)	Compliance	A
§2.1051 §27.53(h) §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 4) (Band 41) (Band 66)	Compliance	A
§2.1053 §27.53(h) §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 4) (Band 41) (Band 66)	Compliance	A
§27.50(k)(4)	Peak to average ratio	Compliance	A



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***Test Lab Information Reference**

Lab A:

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

Lab Address:

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

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	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
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.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.28,23	Oct.27,23
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

- NOTE:**
1. The calibration interval of the above test instruments is 6 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Phone	
BRAND NAME	NOKIA	
MODEL NAME	TA-1584	
NOMINAL VOLTAGE	5.0Vdc(adapter) 3.85Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715MHz ~ 1750MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5 MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~ 1745MHz
	LTE Band 41 Channel Bandwidth: 5MHz	2498.5MHz ~ 2687.5MHz
	LTE Band 41 Channel Bandwidth: 10MHz	2501MHz ~ 2685MHz
	LTE Band 41 Channel Bandwidth: 15MHz	2503.5MHz ~ 2682.5MHz
	LTE Band 41 Channel Bandwidth: 20MHz	2506MHz ~ 2680MHz
	LTE Band 66 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1779.3MHz
	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz
	LTE Band 66 Channel Bandwidth: 10MHz	1715MHz ~ 1775MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720MHz ~ 1770MHz



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MAX. EIRP POWER	LTE Band 4 Channel Bandwidth: 1.4MHz	216.77mW
	LTE Band 4 Channel Bandwidth: 3MHz	214.78mW
	LTE Band 4 Channel Bandwidth: 5MHz	215.28mW
	LTE Band 4 Channel Bandwidth: 10MHz	214.78mW
	LTE Band 4 Channel Bandwidth: 15MHz	216.77mW
	LTE Band 4 Channel Bandwidth: 20MHz	217.77mW
	LTE Band 41 Channel Bandwidth: 5MHz	242.66mW
	LTE Band 41 Channel Bandwidth: 10MHz	244.34mW
	LTE Band 41 Channel Bandwidth: 15MHz	244.34mW
	LTE Band 41 Channel Bandwidth: 20MHz	246.6mW
	LTE Band 41(HPUE) Channel Bandwidth: 5MHz	511.68mW
	LTE Band 41(HPUE) Channel Bandwidth: 10MHz	515.23mW
	LTE Band 41(HPUE) Channel Bandwidth: 15MHz	515.23mW
	LTE Band 41(HPUE) Channel Bandwidth: 20MHz	520mW
	LTE Band 66 Channel Bandwidth: 1.4MHz	229.09mW
	LTE Band 66 Channel Bandwidth: 3MHz	226.99mW
	LTE Band 66 Channel Bandwidth: 5MHz	227.51mW
	LTE Band 66 Channel Bandwidth: 10MHz	225.94mW
	LTE Band 66 Channel Bandwidth: 15MHz	229.09mW
	LTE Band 66 Channel Bandwidth: 20MHz	230.14mW

EMISSION DESIGNATOR	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 4M53G7D
		16QAM: 4M50W7D
		64QAM: 4M52W7D
	LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 9M06G7D
		16QAM: 9M06W7D
		64QAM: 9M03W7D
	LTE Band 41 Channel Bandwidth: 15MHz	QPSK: 13M6G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
	LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 18M4G7D
		16QAM: 18M3W7D
		64QAM: 18M4W7D
	LTE Band 66 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D
		16QAM: 1M09W7D
		64QAM: 1M10W7D
	LTE Band 66 Channel Bandwidth: 3MHz	QPSK: 2M72G7D
		16QAM: 2M73W7D
		64QAM: 2M71W7D
	LTE Band 66 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M51W7D
		64QAM: 4M51W7D
	LTE Band 66 Channel Bandwidth: 10MHz	QPSK: 9M02G7D
		16QAM: 9M04W7D
		64QAM: 9M01W7D
LTE Band 66 Channel Bandwidth: 15MHz	QPSK: 13M5G7D	
	16QAM: 13M5W7D	
	64QAM: 13M4W7D	
LTE Band 66 Channel Bandwidth: 20MHz	QPSK: 17M9G7D	
	16QAM: 17M9W7D	
	64QAM: 17M9W7D	
ANTENNA TYPE	Fixed Internal Antenna with -0.56dBi gain for LTE4 Fixed Internal Antenna with 0.5dBi gain for LTE41 Fixed Internal Antenna with -0.5dBi gain for LTE66	



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HW VERSION	V1.0
SW VERSION	04US_0_023
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1.0 meter
EXTREME TEMPERATURE	-20-60 °C
EXTREME VOLTAGE	3.6V - 4.4V

NOTE:

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

MODULATION MODE	TX FUNCTION
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.
- The product of TA-1584(FCC ID: 2AJOTTA-1584) only the following manufacturer of key parts is different between the first and second supply, other parameters are the same:

N O.	Change Description		specificatons	first supplier	specificatons	second supplier
1	PCBA	3GB LPDDR	3GB	Longsys	RAM;DDR4;3GB ;4266Mbps;FBG A-200;10*15*0.9	Samsung
2		32GB EMMC	32GB	Longsys	32GB	Biwin
3		PCB	105X131.6MM	Huashen	105X131.6MM	SUNTAK
4	LCM	LCD	6.3"HKC incell, 720X1560 FocalTech: FT8006S-AN, GG3	TCL	6.3" HKC incell, 720X1560 Chipone: ICNL9911C	Icetron
5	Front camera	Camera	5M;FF	Holitech	5M;FF	TXD
6	Macro CAM	Camera	13M;PDAF;	Sunwin	13M;PDAF;	TXD
7		Camera	2M;FF	Imaging	2M;FF	Holitech
8	Acoustic	Vibrator	Φ8*3mm	ChaoYing	Φ8*3mm	HONGZHIFA
9		FPC	N/A	ZRXD	N/A	XINYE



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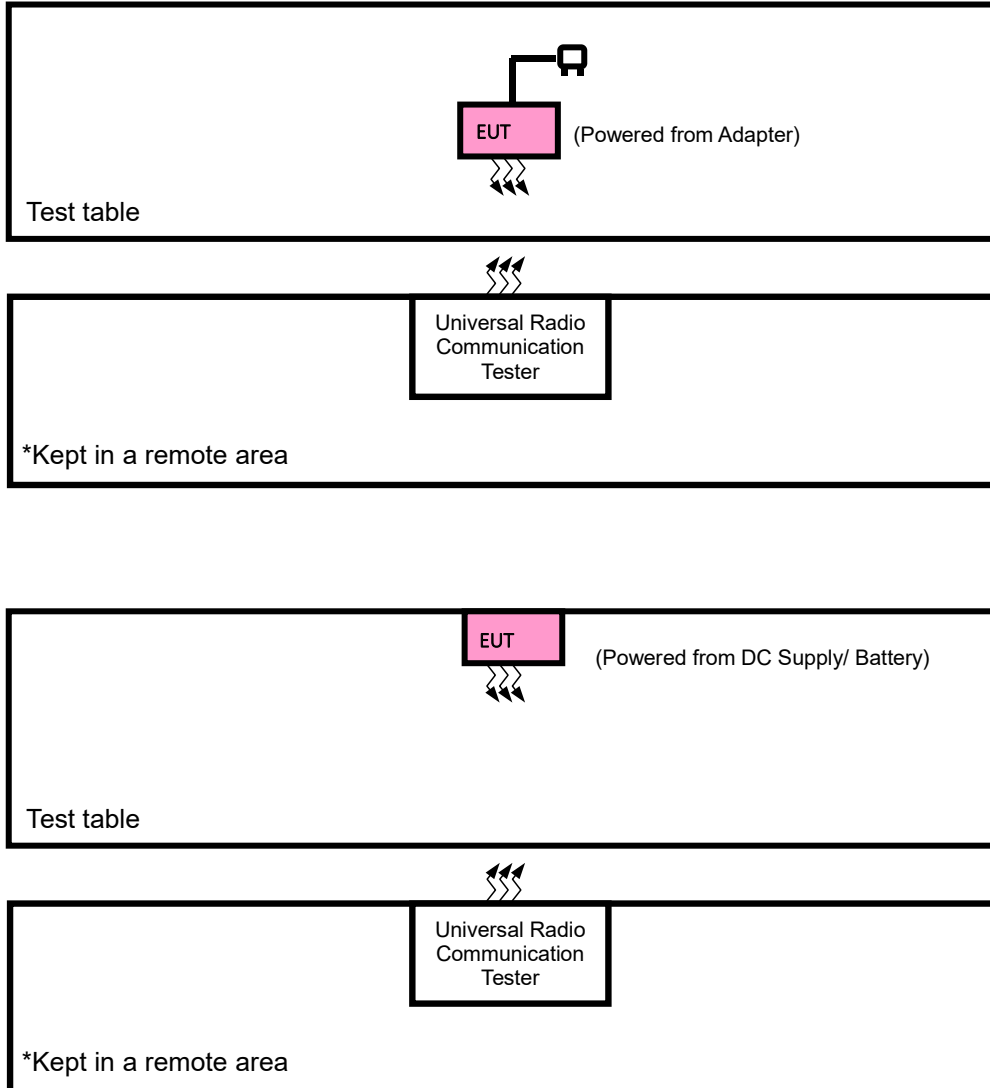
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10	LED	P2016F-W55WM0M2AB5C 2-0002	RUNLITE	SJ-FT2016-DHZ 1N5257-01	SUIJING
11	Battery	3000mAh	Highpower	3000mAh	GAOYUAN
12	Glass	30.09X12.02X0.50 mm	Dottone	30.09X12.02X0. 50mm	Lesu

5. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	Highpower	Huizhou Highpower Technology Co., Ltd.	CH396078	Capacity: 3.85 Vdc, 3000mAh
Battery 2	GaoYuan	HUNAN GAOYUAN BATTERY CO.,LTD	CH396078	Capacity: 3.85 Vdc, 3000mAh
AC Adapter	Baijunda	Baijunda Group Co., Ltd	AD-010U	I/P: 100-240Vac, 0.35A, O/P: 5.0Vdc, 2.0A
USB Cable	Saibao	Saibao (Jiangxi) Industrial Co., Ltd	SZN-A018A	Signal Line, 1.0meter

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	N/A

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 was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with LTE link
B	EUT + DC Supply with LTE link

LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	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 4 are covered by LTE Band 66, Because it is a subset of LTE Band 66 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 66

LTE BAND 41 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	39675 to 41565	39675, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39700 to 41540	39700, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39725 to 41515	39725, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset
A	BAND EDGE	39675 to 41565	39675	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		39700 to 41540	39700	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		39725 to 41515	39725	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset



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			41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
		39750 to 41490	39750	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
			41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset
A	CONDCUDET ED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	40620	10MHz	QPSK	1 RB / 0RB Offset
		39725 to 41515	40620	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	40620	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.



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LTE BAND 66 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131987 to 132657	131987, 132322,132657	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	100 RB / 0 RB Offset
A	BAND EDGE	131979 to 132322	131979	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			132322	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			132657	3MHz	QPSK,16QAM, 64QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			132647	5MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			132622	10MHz	QPSK,16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset
			132597	15MHz	QPSK,16QAM, 64QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset
			132572	20MHz	QPSK,16QAM, 64QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset



BUREAU VERITAS

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A	CONDCUDED EMISSION	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	132322	3MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	132322	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132322	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132322	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.



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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5V By Adapter	Chao Wu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.85V By DC Supply	Chao Wu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC5V By Adapter	Chao Wu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	Chao Wu
CONDCUDED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Chao Wu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Chao Wu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC5V By Adapter	Chao Wu



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2.5 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 27

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

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

Fixed, mobile, and portable (hand-held) 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

According to the specific rule Part 27.50 (k)(3) Mobile devices are limited to 1Watt (30 dBm) EIRP, Mobile devices operating inl these bands must employ a means for limiting power to the minimum necessary for successful communications

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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

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

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

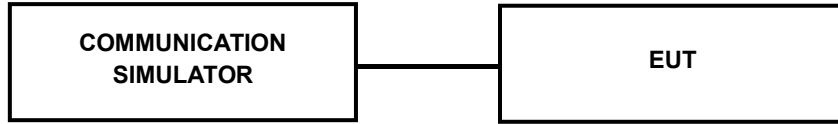
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



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3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 4

Band/BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz
4/ 1.4	QPSK	1	0	23.61	23.69	23.69
		1	2	23.51	23.58	23.59
		1	5	23.92	23.85	23.81
		3	0	23.57	23.59	23.63
		3	1	23.64	23.67	23.62
		3	3	23.71	23.66	23.68
		6	0	22.73	22.66	22.64
	16QAM	1	0	22.99	23.00	23.01
		1	2	22.96	22.96	22.86
		1	5	23.13	23.08	23.12
		3	0	22.59	22.68	22.61
		3	1	22.60	22.68	22.67
		3	3	22.72	22.75	22.73
		6	0	21.76	21.74	21.63
	64QAM	1	0	21.73	21.59	21.90
		1	2	21.27	21.67	21.70
		1	5	21.88	22.04	22.00
		3	0	21.68	20.54	20.63
		3	1	21.57	20.66	20.61
		3	3	21.68	20.73	20.74
		6	0	20.66	20.60	20.59

Band/BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz
4/3	QPSK	1	0	23.63	23.71	23.68
		1	7	23.47	23.59	23.59
		1	14	23.88	23.85	23.81
		8	0	22.56	22.62	22.63
		8	3	22.57	22.67	22.64
		8	7	22.68	22.73	22.72
		15	0	22.70	22.67	22.58
	16QAM	1	0	22.96	23.06	23.04
		1	7	22.93	22.99	22.84
		1	14	23.16	23.08	23.12
		8	0	21.55	21.69	21.61
		8	3	21.65	21.63	21.70
		8	7	21.74	21.73	21.69
		15	0	21.76	21.68	21.66
	64QAM	1	0	21.79	21.62	21.84
		1	7	21.30	21.61	21.69
		1	14	21.89	22.06	22.00
		8	0	20.71	20.58	20.64
		8	3	20.61	20.60	20.66
		8	7	20.65	20.77	20.70
		15	0	20.68	20.57	20.63

Band/BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz
4/5	QPSK	1	0	23.64	23.66	23.69
		1	12	23.52	23.56	23.59
		1	24	23.89	23.84	23.85
		12	0	22.59	22.62	22.60
		12	6	22.57	22.68	22.65
		12	13	22.72	22.69	22.73
		25	0	22.68	22.70	22.61
	16QAM	1	0	22.97	23.02	23.04
		1	12	22.90	23.02	22.83
		1	24	23.16	23.08	23.11
		12	0	21.55	21.67	21.58
		12	6	21.62	21.67	21.66
		12	13	21.69	21.75	21.72
		25	0	21.76	21.69	21.63
	64QAM	1	0	21.73	21.59	21.90
		1	12	21.27	21.67	21.69
		1	24	21.82	22.11	22.00
		12	0	20.72	20.55	20.63
		12	6	20.55	20.67	20.65
		12	13	20.69	20.76	20.67
		25	0	20.64	20.63	20.61

Band/BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz
4/ 10	QPSK	1	0	23.61	23.69	23.69
		1	24	23.52	23.56	23.60
		1	49	23.86	23.88	23.81
		25	0	22.60	22.61	22.63
		25	12	22.63	22.62	22.65
		25	25	22.70	22.66	22.72
		50	0	22.73	22.70	22.58
	16QAM	1	0	22.97	22.99	23.00
		1	24	22.95	22.98	22.86
		1	49	23.16	23.09	23.08
		25	0	21.57	21.65	21.64
		25	12	21.66	21.61	21.71
		25	25	21.68	21.76	21.69
		50	0	21.80	21.68	21.67
	64QAM	1	0	21.72	21.60	21.87
		1	24	21.32	21.63	21.73
		1	49	21.88	22.05	21.97
		25	0	20.70	20.52	20.69
		25	12	20.62	20.66	20.59
		25	25	20.68	20.73	20.69
		50	0	20.69	20.59	20.62

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz
4/ 15	QPSK	1	0	23.68	23.69	23.66
		1	37	23.50	23.61	23.55
		1	74	23.92	23.91	23.82
		36	0	22.57	22.62	22.64
		36	19	22.64	22.67	22.65
		36	39	22.68	22.67	22.72
		75	0	22.73	22.68	22.63
	16QAM	1	0	23.01	23.06	23.00
		1	37	22.94	22.99	22.86
		1	74	23.12	23.14	23.10
		36	0	21.61	21.65	21.65
		36	19	21.60	21.65	21.67
		36	39	21.73	21.74	21.72
		75	0	21.81	21.71	21.60
	64QAM	1	0	21.74	21.61	21.88
		1	37	21.33	21.62	21.70
		1	74	21.84	22.04	22.00
		36	0	20.75	20.58	20.63
		36	19	20.56	20.60	20.61
		36	39	20.71	20.80	20.71
		75	0	20.68	20.57	20.63

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz
4/ 20	QPSK	1	0	23.69	23.73	23.74
		1	50	23.54	23.64	23.61
		1	99	23.94	23.92	23.86
		50	0	22.63	22.67	22.65
		50	25	22.65	22.69	22.70
		50	50	22.76	22.74	22.74
		100	0	22.74	22.72	22.66
	16QAM	1	0	23.04	23.07	23.06
		1	50	22.98	23.04	22.88
		1	99	23.18	23.16	23.13
		50	0	21.63	21.73	21.66
		50	25	21.68	21.69	21.72
		50	50	21.76	21.80	21.74
		100	0	21.82	21.76	21.68
	64QAM	1	0	21.80	21.64	21.92
		1	50	21.35	21.69	21.75
		1	99	21.90	22.12	22.02
		50	0	20.76	20.60	20.71
		50	25	20.63	20.68	20.67
		50	50	20.73	20.81	20.75
		100	0	20.70	20.65	20.64



**BUREAU
VERITAS**

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LTE Band 41

Band/BW	Modulation	RB Size	RB Offset	Low CH (39675)	Low Mid CH (40148)	Mid CH (40620)	High Mid CH (41093)	High CH (41565)
				Frequency (2498.5)MHz	Frequency (2545.8)MHz	Frequency (2593)MHz	Frequency (2640.3)MHz	Frequency (2687.5)MHz
41/ 5	QPSK	1	0	23.60	23.40	23.35	23.61	22.86
		1	12	23.15	23.33	23.11	23.31	22.71
		1	24	22.69	23.04	22.99	23.03	22.84
		12	0	22.44	22.39	22.24	22.44	21.84
		12	6	22.22	22.34	22.25	22.47	21.83
		12	13	22.02	22.17	22.04	22.20	21.85
		25	0	22.15	22.26	22.14	22.31	21.86
	16QAM	1	0	22.50	22.42	22.35	22.67	21.90
		1	12	22.05	22.32	22.15	22.30	21.72
		1	24	21.69	22.09	21.98	22.01	21.91
		12	0	21.43	21.38	21.20	21.47	20.76
		12	6	21.27	21.42	21.31	21.50	20.91
		12	13	21.05	21.22	21.07	21.19	20.92
		25	0	21.21	21.35	21.14	21.30	20.92
	64QAM	1	0	21.56	21.69	21.66	21.80	21.74
		1	12	21.28	21.71	21.39	21.47	21.57
		1	24	20.84	21.49	21.29	21.23	21.75
		12	0	20.84	20.71	20.81	20.58	20.76
		12	6	20.85	20.76	20.93	20.63	20.88
		12	13	20.66	20.89	20.63	20.30	20.77
		25	0	20.78	20.96	20.76	20.40	20.79

Band/BW	Modulation	RB Size	RB Offset	Low CH (39700)	Low Mid CH (40160)	Mid CH (40620)	High Mid CH (41080)	High CH (41540)
				Frequency (2501)MHz	Frequency (2547)MHz	Frequency (2593)MHz	Frequency (2639)MHz	Frequency (2685)MHz
41/ 10	QPSK	1	0	23.57	23.37	23.38	23.64	22.86
		1	24	23.15	23.33	23.11	23.31	22.72
		1	49	22.66	23.01	23.03	23.07	22.80
		25	0	22.45	22.40	22.23	22.43	21.87
		25	12	22.28	22.40	22.19	22.41	21.83
		25	25	22.00	22.15	22.01	22.17	21.84
		50	0	22.20	22.31	22.14	22.31	21.83
	16QAM	1	0	22.50	22.42	22.32	22.64	21.86
		1	24	22.10	22.37	22.11	22.26	21.75
		1	49	21.69	22.09	21.99	22.02	21.88
		25	0	21.45	21.40	21.18	21.45	20.82
		25	12	21.31	21.46	21.25	21.44	20.96
		25	25	21.04	21.21	21.08	21.20	20.89
		50	0	21.25	21.39	21.13	21.29	20.96
	64QAM	1	0	21.55	21.70	21.63	21.81	21.71
		1	24	21.33	21.67	21.43	21.43	21.61
		1	49	20.90	21.43	21.26	21.17	21.72
		25	0	20.82	20.68	20.87	20.55	20.82
		25	12	20.92	20.75	20.87	20.62	20.82
		25	25	20.65	20.86	20.65	20.27	20.79
		50	0	20.83	20.92	20.77	20.36	20.80

Band/BW	Modulation	RB Size	RB Offset	Low CH (39725)	Low Mid CH (40173)	Mid CH (40620)	High Mid CH (41068)	High CH (41515)
				Frequency (2503.5)MHz	Frequency (2548.3)MHz	Frequency (2593)MHz	Frequency (2637.8)MHz	Frequency (2682.5)MHz
41/ 15	QPSK	1	0	23.64	23.44	23.38	23.64	22.83
		1	37	23.13	23.31	23.16	23.36	22.67
		1	74	22.72	23.07	23.06	23.10	22.81
		36	0	22.42	22.37	22.24	22.44	21.88
		36	19	22.29	22.41	22.24	22.46	21.83
		36	39	21.98	22.13	22.02	22.18	21.84
		75	0	22.20	22.31	22.12	22.29	21.88
	16QAM	1	0	22.54	22.46	22.39	22.71	21.86
		1	37	22.09	22.36	22.12	22.27	21.75
		1	74	21.65	22.05	22.04	22.07	21.90
		36	0	21.49	21.44	21.18	21.45	20.83
		36	19	21.25	21.40	21.29	21.48	20.92
		36	39	21.09	21.26	21.06	21.18	20.92
		75	0	21.26	21.40	21.16	21.32	20.89
	64QAM	1	0	21.57	21.71	21.64	21.82	21.72
		1	37	21.34	21.66	21.40	21.42	21.58
		1	74	20.86	21.42	21.29	21.16	21.75
		36	0	20.87	20.74	20.81	20.61	20.76
		36	19	20.86	20.69	20.89	20.56	20.84
		36	39	20.68	20.93	20.67	20.34	20.81
		75	0	20.82	20.90	20.78	20.34	20.81



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Band/BW	Modulation	RB Size	RB Offset	Low CH (39750)	Low Mid CH (40185)	Mid CH (40620)	High Mid CH (41055)	High CH (41490)
				Frequency (2506)MHz	Frequency (2549.5)MHz	Frequency (2593)MHz	Frequency (2636.5)MHz	Frequency (2680)MHz
41/20	QPSK	1	0	23.65	23.45	23.42	23.68	22.91
		1	50	23.17	23.35	23.19	23.39	22.73
		1	99	22.74	23.09	23.07	23.11	22.85
		50	0	22.48	22.43	22.29	22.49	21.89
		50	25	22.30	22.42	22.26	22.48	21.88
		50	50	22.06	22.21	22.09	22.25	21.86
		100	0	22.21	22.32	22.16	22.33	21.91
	16QAM	1	0	22.57	22.49	22.40	22.72	21.92
		1	50	22.13	22.40	22.17	22.32	21.77
		1	99	21.71	22.11	22.06	22.09	21.93
		50	0	21.51	21.46	21.26	21.53	20.84
		50	25	21.33	21.48	21.33	21.52	20.97
		50	50	21.12	21.29	21.12	21.24	20.94
		100	0	21.27	21.41	21.21	21.37	20.97
	64QAM	1	0	21.63	21.74	21.68	21.85	21.76
		1	50	21.36	21.73	21.45	21.49	21.63
		1	99	20.92	21.50	21.31	21.24	21.77
		50	0	20.88	20.76	20.89	20.63	20.84
		50	25	20.93	20.77	20.95	20.64	20.90
		50	50	20.70	20.94	20.71	20.35	20.85
		100	0	20.84	20.98	20.79	20.42	20.82



**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

LTE Band 41((HPUE)

Band/BW	Modulation	RB Size	RB Offset	Low CH (39675)	Low Mid CH (40148)	Mid CH (40620)	High Mid CH (41093)	High CH (41565)
				Frequency (2498.5)MHz	Frequency (2545.8)MHz	Frequency (2593)MHz	Frequency (2640.3)MHz	Frequency (2687.5)MHz
41/ 5	QPSK	1	0	26.42	26.42	26.53	26.59	25.66
		1	12	26.04	26.29	26.11	26.26	25.56
		1	24	25.67	26.15	26.05	25.80	25.68
		12	0	25.59	25.58	25.40	25.69	24.94
		12	6	25.22	25.44	25.39	25.53	24.76
		12	13	25.20	25.37	25.27	25.40	24.92
		25	0	25.33	25.50	25.36	25.56	24.96
	16QAM	1	0	25.78	25.71	25.84	25.86	24.98
		1	12	25.35	25.56	25.47	25.50	24.83
		1	24	25.08	25.47	25.36	25.12	24.97
		12	0	24.65	24.62	24.45	24.80	23.93
		12	6	24.34	24.57	24.47	24.51	23.83
		12	13	24.27	24.51	24.35	24.50	24.06
		25	0	24.46	24.60	24.41	24.61	24.06
	64QAM	1	0	25.23	25.21	25.34	25.25	24.45
		1	12	24.78	25.14	24.85	24.90	24.34
		1	24	24.43	25.05	24.81	24.62	24.54
		12	0	24.31	24.33	24.06	24.35	23.57
		12	6	23.93	24.33	24.08	24.10	23.52
		12	13	23.89	24.22	23.90	24.10	23.70
		25	0	24.05	24.31	24.04	24.25	23.74

Band/BW	Modulation	RB Size	RB Offset	Low CH (39700)	Low Mid CH (40160)	Mid CH (40620)	High Mid CH (41080)	High CH (41540)
				Frequency (2501)MHz	Frequency (2547)MHz	Frequency (2593)MHz	Frequency (2639)MHz	Frequency (2685)MHz
41/ 10	QPSK	1	0	26.39	26.39	26.56	26.62	25.66
		1	24	26.04	26.29	26.11	26.26	25.57
		1	49	25.64	26.12	26.09	25.84	25.64
		25	0	25.60	25.59	25.39	25.68	24.97
		25	12	25.28	25.50	25.33	25.47	24.76
		25	25	25.18	25.35	25.24	25.37	24.91
		50	0	25.38	25.55	25.36	25.56	24.93
	16QAM	1	0	25.78	25.71	25.81	25.83	24.94
		1	24	25.40	25.61	25.43	25.46	24.86
		1	49	25.08	25.47	25.37	25.13	24.94
		25	0	24.67	24.64	24.43	24.78	23.99
		25	12	24.38	24.61	24.41	24.45	23.88
		25	25	24.26	24.50	24.36	24.51	24.03
		50	0	24.50	24.64	24.40	24.60	24.10
	64QAM	1	0	25.22	25.22	25.31	25.26	24.42
		1	24	24.83	25.10	24.89	24.86	24.38
		1	49	24.49	24.99	24.78	24.56	24.51
		25	0	24.29	24.30	24.12	24.32	23.63
		25	12	24.00	24.32	24.02	24.09	23.46
		25	25	23.88	24.19	23.92	24.07	23.72
		50	0	24.10	24.27	24.05	24.21	23.75

Band/BW	Modulation	RB Size	RB Offset	Low CH (39725)	Low Mid CH (40173)	Mid CH (40620)	High Mid CH (41068)	High CH (41515)
				Frequency (2503.5)MHz	Frequency (2548.3)MHz	Frequency (2593)MHz	Frequency (2637.8)MHz	Frequency (2682.5)MHz
41/ 15	QPSK	1	0	26.46	26.46	26.56	26.62	25.63
		1	37	26.02	26.27	26.16	26.31	25.52
		1	74	25.70	26.18	26.12	25.87	25.65
		36	0	25.57	25.56	25.40	25.69	24.98
		36	19	25.29	25.51	25.38	25.52	24.76
		36	39	25.16	25.33	25.25	25.38	24.91
		75	0	25.38	25.55	25.34	25.54	24.98
	16QAM	1	0	25.82	25.75	25.88	25.90	24.94
		1	37	25.39	25.60	25.44	25.47	24.86
		1	74	25.04	25.43	25.42	25.18	24.96
		36	0	24.71	24.68	24.43	24.78	24.00
		36	19	24.32	24.55	24.45	24.49	23.84
		36	39	24.31	24.55	24.34	24.49	24.06
		75	0	24.51	24.65	24.43	24.63	24.03
	64QAM	1	0	25.24	25.23	25.32	25.27	24.43
		1	37	24.84	25.09	24.86	24.85	24.35
		1	74	24.45	24.98	24.81	24.55	24.54
		36	0	24.34	24.36	24.06	24.38	23.57
		36	19	23.94	24.26	24.04	24.03	23.48
		36	39	23.91	24.26	23.94	24.14	23.74
		75	0	24.09	24.25	24.06	24.19	23.76

Band/BW	Modulation	RB Size	RB Offset	Low CH (39750)	Low Mid CH (40185)	Mid CH (40620)	High Mid CH (41055)	High CH (41490)
				Frequency (2506)MHz	Frequency (2549.5)MHz	Frequency (2593)MHz	Frequency (2636.5)MHz	Frequency (2680)MHz
41/ 20	QPSK	1	0	26.47	26.47	26.60	26.66	25.71
		1	50	26.06	26.31	26.19	26.34	25.58
		1	99	25.72	26.20	26.13	25.88	25.69
		50	0	25.63	25.62	25.45	25.74	24.99
		50	25	25.30	25.52	25.40	25.54	24.81
		50	50	25.24	25.41	25.32	25.45	24.93
		100	0	25.39	25.56	25.38	25.58	25.01
	16QAM	1	0	25.85	25.78	25.89	25.91	25.00
		1	50	25.43	25.64	25.49	25.52	24.88
		1	99	25.10	25.49	25.44	25.20	24.99
		50	0	24.73	24.70	24.51	24.86	24.01
		50	25	24.40	24.63	24.49	24.53	23.89
		50	50	24.34	24.58	24.40	24.55	24.08
		100	0	24.52	24.66	24.48	24.68	24.11
	64QAM	1	0	25.30	25.26	25.36	25.30	24.47
		1	50	24.86	25.16	24.91	24.92	24.40
		1	99	24.51	25.06	24.83	24.63	24.56
		50	0	24.35	24.38	24.14	24.40	23.65
		50	25	24.01	24.34	24.10	24.11	23.54
		50	50	23.93	24.27	23.98	24.15	23.78
		100	0	24.11	24.33	24.07	24.27	23.77

LTE Band 66

Band/BW	Modulation	RB Size	RB Offset	Low CH 131979	Mid CH 132322	High CH 132665
				Frequency 1710.7MHz	Frequency 1745MHz	Frequency 1779.3MHz
66/ 1.4	QPSK	1	0	23.43	23.40	23.41
		1	2	23.60	23.53	23.55
		1	5	24.10	23.98	23.96
		3	0	23.60	23.45	23.41
		3	1	23.66	23.63	23.40
		3	3	23.65	23.61	23.56
		6	0	22.71	22.63	22.52
	16QAM	1	0	22.78	22.65	22.58
		1	2	22.99	22.81	22.73
		1	5	23.31	23.27	23.05
		3	0	22.63	22.46	22.40
		3	1	22.51	22.62	22.47
		3	3	22.62	22.63	22.62
		6	0	21.57	21.57	21.52
	64QAM	1	0	21.34	21.68	21.27
		1	2	21.79	21.51	21.25
		1	5	22.19	22.10	21.89
		3	0	21.52	21.52	21.34
		3	1	21.52	21.55	21.42
		3	3	21.63	21.42	21.60
		6	0	20.46	20.59	20.47

Band/BW	Modulation	RB Size	RB Offset	Low CH 131987	Mid CH 132322	High CH 132657
				Frequency 1711.5MHz	Frequency 1745MHz	Frequency 1778.5MHz
66/ 3	QPSK	1	0	23.45	23.42	23.40
		1	7	23.56	23.54	23.55
		1	14	24.06	23.98	23.96
		8	0	22.59	22.48	22.41
		8	3	22.59	22.63	22.42
		8	7	22.62	22.68	22.60
		15	0	22.68	22.64	22.46
	16QAM	1	0	22.75	22.71	22.61
		1	7	22.96	22.84	22.71
		1	14	23.34	23.27	23.05
		8	0	21.59	21.47	21.40
		8	3	21.56	21.57	21.50
		8	7	21.64	21.61	21.58
		15	0	21.57	21.51	21.55
	64QAM	1	0	21.40	21.71	21.21
		1	7	21.82	21.45	21.24
		1	14	22.20	22.12	21.89
		8	0	20.55	20.56	20.35
		8	3	20.56	20.49	20.47
		8	7	20.60	20.46	20.56
		15	0	20.48	20.56	20.51

Band/BW	Modulation	RB Size	RB Offset	Low CH 131997	Mid CH 132322	High CH 132647
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
66/ 5	QPSK	1	0	23.46	23.37	23.41
		1	12	23.61	23.51	23.55
		1	24	24.07	23.97	24.00
		12	0	22.62	22.48	22.38
		12	6	22.59	22.64	22.43
		12	13	22.66	22.64	22.61
		25	0	22.66	22.67	22.49
	16QAM	1	0	22.76	22.67	22.61
		1	12	22.93	22.87	22.70
		1	24	23.34	23.27	23.04
		12	0	21.59	21.45	21.37
		12	6	21.53	21.61	21.46
		12	13	21.59	21.63	21.61
		25	0	21.57	21.52	21.52
	64QAM	1	0	21.34	21.68	21.27
		1	12	21.79	21.51	21.24
		1	24	22.13	22.17	21.89
		12	0	20.56	20.53	20.34
		12	6	20.50	20.56	20.46
		12	13	20.64	20.45	20.53
		25	0	20.44	20.62	20.49

Band/BW	Modulation	RB Size	RB Offset	Low CH 132022	Mid CH 132322	High CH 132622
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
66/ 10	QPSK	1	0	23.43	23.40	23.41
		1	24	23.61	23.51	23.56
		1	49	24.04	24.01	23.96
		25	0	22.63	22.47	22.41
		25	12	22.65	22.58	22.43
		25	25	22.64	22.61	22.60
		50	0	22.71	22.67	22.46
	16QAM	1	0	22.76	22.64	22.57
		1	24	22.98	22.83	22.73
		1	49	23.34	23.28	23.01
		25	0	21.61	21.43	21.43
		25	12	21.57	21.55	21.51
		25	25	21.58	21.64	21.58
		50	0	21.61	21.51	21.56
	64QAM	1	0	21.33	21.69	21.24
		1	24	21.84	21.47	21.28
		1	49	22.19	22.11	21.86
		25	0	20.54	20.50	20.40
		25	12	20.57	20.55	20.40
		25	25	20.63	20.42	20.55
		50	0	20.49	20.58	20.50

Band/BW	Modulation	RB Size	RB Offset	Low CH 132047	Mid CH 132322	High CH 132597
				Frequency 1717.5 MHz	Frequency 1745MHz	Frequency 1772.5 MHz
66/ 15	QPSK	1	0	23.50	23.40	23.38
		1	37	23.59	23.56	23.51
		1	74	24.10	24.04	23.97
		36	0	22.60	22.48	22.42
		36	19	22.66	22.63	22.43
		36	39	22.62	22.62	22.60
		75	0	22.71	22.65	22.51
	16QAM	1	0	22.80	22.71	22.57
		1	37	22.97	22.84	22.73
		1	74	23.30	23.33	23.03
		36	0	21.65	21.43	21.44
		36	19	21.51	21.59	21.47
		36	39	21.63	21.62	21.61
		75	0	21.62	21.54	21.49
	64QAM	1	0	21.35	21.70	21.25
		1	37	21.85	21.46	21.25
		1	74	22.15	22.10	21.89
		36	0	20.59	20.56	20.34
		36	19	20.51	20.49	20.42
		36	39	20.66	20.49	20.57
		75	0	20.48	20.56	20.51

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072	Mid CH 132322	High CH 132572
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
66/ 20	QPSK	1	0	23.51	23.44	23.46
		1	50	23.63	23.59	23.57
		1	99	24.12	24.05	24.01
		50	0	22.66	22.53	22.43
		50	25	22.67	22.65	22.48
		50	50	22.70	22.69	22.62
		100	0	22.72	22.69	22.54
	16QAM	1	0	22.83	22.72	22.63
		1	50	23.01	22.89	22.75
		1	99	23.36	23.35	23.06
		50	0	21.67	21.51	21.45
		50	25	21.59	21.63	21.52
		50	50	21.66	21.68	21.63
		100	0	21.63	21.59	21.57
	64QAM	1	0	21.41	21.73	21.29
		1	50	21.87	21.53	21.30
		1	99	22.21	22.18	21.91
		50	0	20.60	20.58	20.42
		50	25	20.58	20.57	20.48
		50	50	20.68	20.50	20.61
		100	0	20.50	20.64	20.52



Test Report No.: PSZ-NQN2303280110RF08

EIRP

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.92	-0.56	23.36	216.77	1
20175	1732.5	23.85	-0.56	23.29	213.3	1
20393	1754.3	23.81	-0.56	23.25	211.35	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.13	-0.56	22.57	180.72	1
20175	1732.5	23.08	-0.56	22.52	178.65	1
20393	1754.3	23.12	-0.56	22.56	180.3	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	21.88	-0.56	21.32	135.52	1
20175	1732.5	22.04	-0.56	21.48	140.6	1
20393	1754.3	22	-0.56	21.44	139.32	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.88	-0.56	23.32	214.78	1
20175	1732.5	23.85	-0.56	23.29	213.3	1
20385	1753.5	23.81	-0.56	23.25	211.35	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.16	-0.56	22.6	181.97	1
20175	1732.5	23.08	-0.56	22.52	178.65	1
20385	1753.5	21.61	-0.56	21.05	127.35	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	21.89	-0.56	21.33	135.83	1
20175	1732.5	22.06	-0.56	21.5	141.25	1
20385	1753.5	22	-0.56	21.44	139.32	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.89	-0.56	23.33	215.28	1
20175	1732.5	23.84	-0.56	23.28	212.81	1
20375	1752.5	23.85	-0.56	23.29	213.3	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.16	-0.56	22.6	181.97	1
20175	1732.5	23.08	-0.56	22.52	178.65	1
20375	1752.5	23.11	-0.56	22.55	179.89	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	21.82	-0.56	21.26	133.66	1
20175	1732.5	22.11	-0.56	21.55	142.89	1
20375	1752.5	22	-0.56	21.44	139.32	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.86	-0.56	23.3	213.8	1
20175	1732.5	23.88	-0.56	23.32	214.78	1
20350	1750	23.81	-0.56	23.25	211.35	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.16	-0.56	22.6	181.97	1
20175	1732.5	23.09	-0.56	22.53	179.06	1
20350	1750	23.08	-0.56	22.52	178.65	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	21.88	-0.56	21.32	135.52	1
20175	1732.5	22.05	-0.56	21.49	140.93	1
20350	1750	21.97	-0.56	21.41	138.36	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.92	-0.56	23.36	216.77	1
20175	1732.5	23.91	-0.56	23.35	216.27	1
20325	1747.5	23.82	-0.56	23.26	211.84	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.12	-0.56	22.56	180.3	1
20175	1732.5	23.14	-0.56	22.58	181.13	1
20325	1747.5	23.1	-0.56	22.54	179.47	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	21.84	-0.56	21.28	134.28	1
20175	1732.5	22.04	-0.56	21.48	140.6	1
20325	1747.5	22	-0.56	21.44	139.32	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.94	-0.56	23.38	217.77	1
20175	1732.5	23.92	-0.56	23.36	216.77	1
20300	1745	23.86	-0.56	23.3	213.8	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.18	-0.56	22.62	182.81	1
20175	1732.5	23.16	-0.56	22.6	181.97	1
20300	1745	23.13	-0.56	22.57	180.72	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	21.9	-0.56	21.34	136.14	1
20175	1732.5	22.12	-0.56	21.56	143.22	1
20300	1745	22.02	-0.56	21.46	139.96	1

LTE BAND 41

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	23.6	0.5	24.1	257.04	2
40148	2545.8	23.4	0.5	23.9	245.47	2
40620	2593	23.35	0.5	23.85	242.66	2
41093	2640.3	23.61	0.5	24.11	257.63	2
41565	2687.5	22.86	0.5	23.36	216.77	2
39675	2498.5	23.6	0.5	24.1	257.04	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	22.5	0.5	23	199.53	2
40148	2545.8	22.42	0.5	22.92	195.88	2
40620	2593	22.35	0.5	22.85	192.75	2
41093	2640.3	22.67	0.5	23.17	207.49	2
41565	2687.5	21.91	0.5	22.41	174.18	2
39675	2498.5	22.5	0.5	23	199.53	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	21.56	0.5	22.06	160.69	2
40148	2545.8	21.71	0.5	22.21	166.34	2
40620	2593	21.66	0.5	22.16	164.44	2
41093	2640.3	21.8	0.5	22.3	169.82	2
41565	2687.5	21.75	0.5	22.25	167.88	2
39675	2498.5	21.56	0.5	22.06	160.69	2



**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501	23.57	0.5	24.07	255.27	2
40160	2547	23.37	0.5	23.87	243.78	2
40620	2593	23.38	0.5	23.88	244.34	2
41080	2639	23.64	0.5	24.14	259.42	2
41540	2685	22.86	0.5	23.36	216.77	2
39700	2501	23.57	0.5	24.07	255.27	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501	22.5	0.5	23	199.53	2
40160	2547	22.42	0.5	22.92	195.88	2
40620	2593	22.32	0.5	22.82	191.43	2
41080	2639	22.64	0.5	23.14	206.06	2
41540	2685	21.88	0.5	22.38	172.98	2
39700	2501	22.5	0.5	23	199.53	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501	21.55	0.5	22.05	160.32	2
40160	2547	21.7	0.5	22.2	165.96	2
40620	2593	21.63	0.5	22.13	163.31	2
41080	2639	21.81	0.5	22.31	170.22	2
41540	2685	21.72	0.5	22.22	166.72	2
39700	2501	21.55	0.5	22.05	160.32	2



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	23.64	0.5	24.14	259.42	2
40173	2548.3	23.44	0.5	23.94	247.74	2
40620	2593	23.38	0.5	23.88	244.34	2
41068	2637.8	23.64	0.5	24.14	259.42	2
41515	2682.5	22.83	0.5	23.33	215.28	2
39725	2503.5	23.64	0.5	24.14	259.42	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	22.54	0.5	23.04	201.37	2
40173	2548.3	22.46	0.5	22.96	197.7	2
40620	2593	22.39	0.5	22.89	194.54	2
41068	2637.8	22.71	0.5	23.21	209.41	2
41515	2682.5	21.9	0.5	22.4	173.78	2
39725	2503.5	22.54	0.5	23.04	201.37	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	21.57	0.5	22.07	161.06	2
40173	2548.3	21.71	0.5	22.21	166.34	2
40620	2593	21.64	0.5	22.14	163.68	2
41068	2637.8	21.82	0.5	22.32	170.61	2
41515	2682.5	21.75	0.5	22.25	167.88	2
39725	2503.5	21.57	0.5	22.07	161.06	2



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	23.65	0.5	24.15	260.02	2
40185	2549.5	23.45	0.5	23.95	248.31	2
40620	2593	23.42	0.5	23.92	246.6	2
41055	2636.5	23.68	0.5	24.18	261.82	2
41490	2680	22.91	0.5	23.41	219.28	2
39750	2506	23.65	0.5	24.15	260.02	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	22.57	0.5	23.07	202.77	2
40185	2549.5	22.49	0.5	22.99	199.07	2
40620	2593	22.4	0.5	22.9	194.98	2
41055	2636.5	22.72	0.5	23.22	209.89	2
41490	2680	21.93	0.5	22.43	174.98	2
39750	2506	22.57	0.5	23.07	202.77	2

CHANNEL BANDWIDTH: 20 MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	21.63	0.5	22.13	163.31	2
40185	2549.5	21.74	0.5	22.24	167.49	2
40620	2593	21.68	0.5	22.18	165.2	2
41055	2636.5	21.85	0.5	22.35	171.79	2
41490	2680	21.77	0.5	22.27	168.66	2
39750	2506	21.63	0.5	22.13	163.31	2

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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	26.42	0.5	26.92	492.04	2
40148	2545.8	26.42	0.5	26.92	492.04	2
40620	2593	26.53	0.5	27.03	504.66	2
41093	2640.3	26.59	0.5	27.09	511.68	2
41565	2687.5	25.68	0.5	26.18	414.95	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	25.78	0.5	26.28	424.62	2
40148	2545.8	25.71	0.5	26.21	417.83	2
40620	2593	25.84	0.5	26.34	430.53	2
41093	2640.3	25.86	0.5	26.36	432.51	2
41565	2687.5	24.98	0.5	25.48	353.18	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	25.23	0.5	25.73	374.11	2
40148	2545.8	25.21	0.5	25.71	372.39	2
40620	2593	25.34	0.5	25.84	383.71	2
41093	2640.3	25.25	0.5	25.75	375.84	2
41565	2687.5	24.54	0.5	25.04	319.15	2



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VERITAS

Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501	26.39	0.5	26.89	488.65	2
40160	2547	26.39	0.5	26.89	488.65	2
40620	2593	26.56	0.5	27.06	508.16	2
41080	2639	26.62	0.5	27.12	515.23	2
41540	2685	25.66	0.5	26.16	413.05	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501	25.78	0.5	26.28	424.62	2
40160	2547	25.71	0.5	26.21	417.83	2
40620	2593	25.81	0.5	26.31	427.56	2
41080	2639	25.83	0.5	26.33	429.54	2
41540	2685	24.94	0.5	25.44	349.95	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501	25.22	0.5	25.72	373.25	2
40160	2547	25.22	0.5	25.72	373.25	2
40620	2593	25.31	0.5	25.81	381.07	2
41080	2639	25.26	0.5	25.76	376.7	2
41540	2685	24.51	0.5	25.01	316.96	2



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VERITAS

Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	26.46	0.5	26.96	496.59	2
40173	2548.3	26.46	0.5	26.96	496.59	2
40620	2593	26.56	0.5	27.06	508.16	2
41068	2637.8	26.62	0.5	27.12	515.23	2
41515	2682.5	25.65	0.5	26.15	412.1	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	25.82	0.5	26.32	428.55	2
40173	2548.3	25.75	0.5	26.25	421.7	2
40620	2593	25.88	0.5	26.38	434.51	2
41068	2637.8	25.9	0.5	26.4	436.52	2
41515	2682.5	24.96	0.5	25.46	351.56	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	25.24	0.5	25.74	374.97	2
40173	2548.3	25.23	0.5	25.73	374.11	2
40620	2593	25.32	0.5	25.82	381.94	2
41068	2637.8	25.27	0.5	25.77	377.57	2
41515	2682.5	24.54	0.5	25.04	319.15	2



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	26.47	0.5	26.97	497.74	2
40185	2549.5	26.47	0.5	26.97	497.74	2
40620	2593	26.6	0.5	27.1	512.86	2
41055	2636.5	26.66	0.5	27.16	520	2
41490	2680	25.71	0.5	26.21	417.83	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	25.85	0.5	26.35	431.52	2
40185	2549.5	25.78	0.5	26.28	424.62	2
40620	2593	25.89	0.5	26.39	435.51	2
41055	2636.5	25.91	0.5	26.41	437.52	2
41490	2680	25	0.5	25.5	354.81	2

CHANNEL BANDWIDTH: 20 MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506	25.3	0.5	25.8	380.19	2
40185	2549.5	25.26	0.5	25.76	376.7	2
40620	2593	25.36	0.5	25.86	385.48	2
41055	2636.5	25.3	0.5	25.8	380.19	2
41490	2680	24.56	0.5	25.06	320.63	2

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CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	24.1	-0.5	23.6	229.09	1
132322	1745	23.98	-0.5	23.48	222.84	1
132665	1779.3	23.96	-0.5	23.46	221.82	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	23.31	-0.5	22.81	190.99	1
132322	1745	23.27	-0.5	22.77	189.23	1
132665	1779.3	23.05	-0.5	22.55	179.89	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	22.19	-0.5	21.69	147.57	1
132322	1745	22.1	-0.5	21.6	144.54	1
132665	1779.3	21.89	-0.5	21.39	137.72	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	24.06	-0.5	23.56	226.99	1
132322	1745	23.98	-0.5	23.48	222.84	1
132657	1778.5	23.96	-0.5	23.46	221.82	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	23.34	-0.5	22.84	192.31	1
132322	1745	23.27	-0.5	22.77	189.23	1
132657	1778.5	23.05	-0.5	22.55	179.89	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	22.2	-0.5	21.7	147.91	1
132322	1745	22.12	-0.5	21.62	145.21	1
132657	1778.5	21.89	-0.5	21.39	137.72	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	24.07	-0.5	23.57	227.51	1
132322	1745	23.97	-0.5	23.47	222.33	1
132647	1777.5	24	-0.5	23.5	223.87	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	23.34	-0.5	22.84	192.31	1
132322	1745	23.27	-0.5	22.77	189.23	1
132647	1777.5	23.04	-0.5	22.54	179.47	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	22.13	-0.5	21.63	145.55	1
132322	1745	22.17	-0.5	21.67	146.89	1
132647	1777.5	21.89	-0.5	21.39	137.72	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	24.04	-0.5	23.54	225.94	1
132322	1745	24.01	-0.5	23.51	224.39	1
132622	1775	23.96	-0.5	23.46	221.82	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	23.34	-0.5	22.84	192.31	1
132322	1745	23.28	-0.5	22.78	189.67	1
132622	1775	23.01	-0.5	22.51	178.24	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.19	-0.5	21.69	147.57	1
132322	1745	22.11	-0.5	21.61	144.88	1
132622	1775	21.86	-0.5	21.36	136.77	1



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CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	24.1	-0.5	23.6	229.09	1
132322	1745	24.04	-0.5	23.54	225.94	1
132597	1772.5	23.97	-0.5	23.47	222.33	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	23.3	-0.5	22.8	190.55	1
132322	1745	23.33	-0.5	22.83	191.87	1
132597	1772.5	23.03	-0.5	22.53	179.06	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	22.15	-0.5	21.65	146.22	1
132322	1745	22.1	-0.5	21.6	144.54	1
132597	1772.5	21.89	-0.5	21.39	137.72	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	24.12	-0.5	23.62	230.14	1
132322	1745	24.05	-0.5	23.55	226.46	1
132572	1770	24.01	-0.5	23.51	224.39	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	23.36	-0.5	22.86	193.2	1
132322	1745	23.35	-0.5	22.85	192.75	1
132572	1770	23.06	-0.5	22.56	180.3	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	22.21	-0.5	21.71	148.25	1
132322	1745	22.18	-0.5	21.68	147.23	1
132572	1770	21.91	-0.5	21.41	138.36	1

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

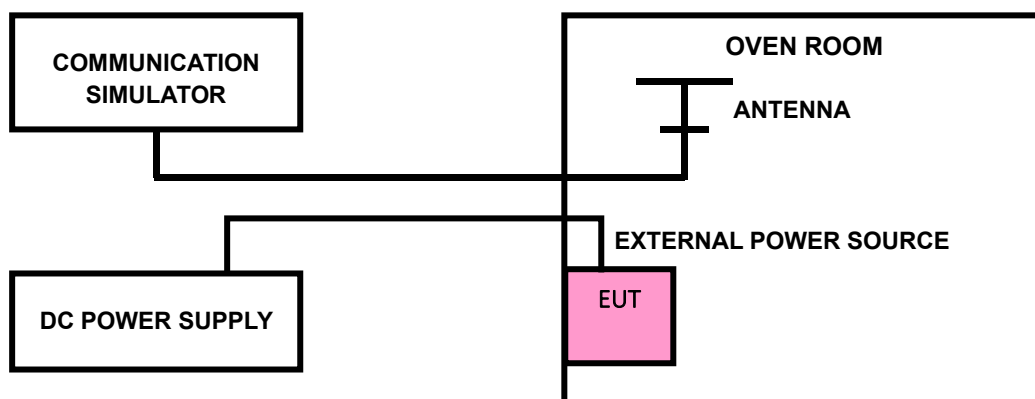
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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





Test Report No.: PSZ-NQN2303280110RF08

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

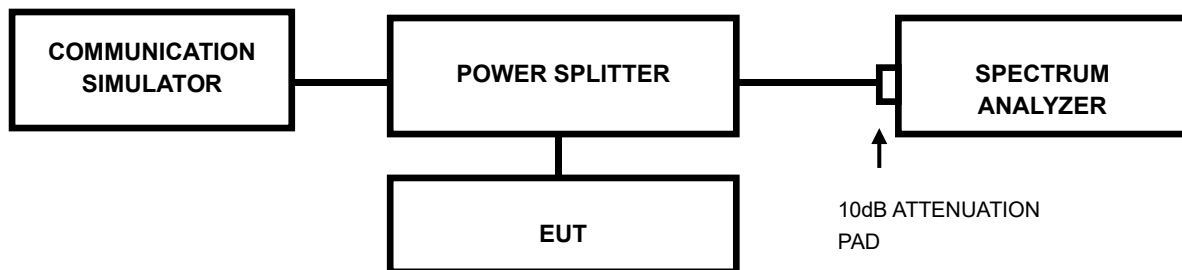
Note: VL = Low voltage(3.6V); VN/NV = Normal voltage(3.85V); VH = High voltage(4.4V);
NT = Normal temperature (25°C)

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.



Test Report No.: PSZ-NQN2303280110RF08

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.



3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC Part 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC Part 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

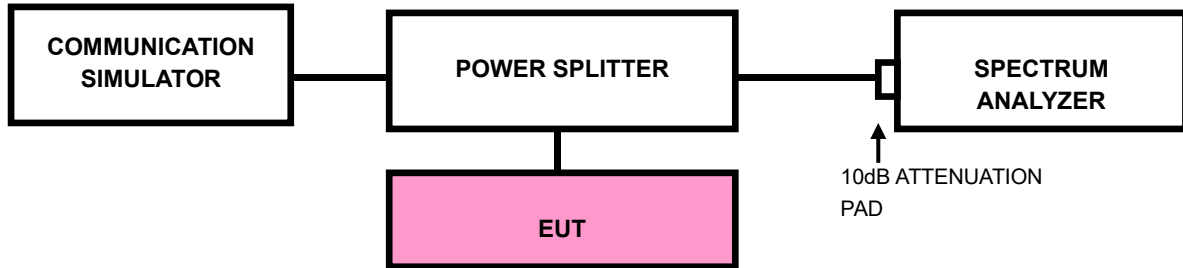
According to FCC Part 27.53 (n)(2)For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a lresolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

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



Test Report No.: PSZ-NQN2303280110RF08

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 .

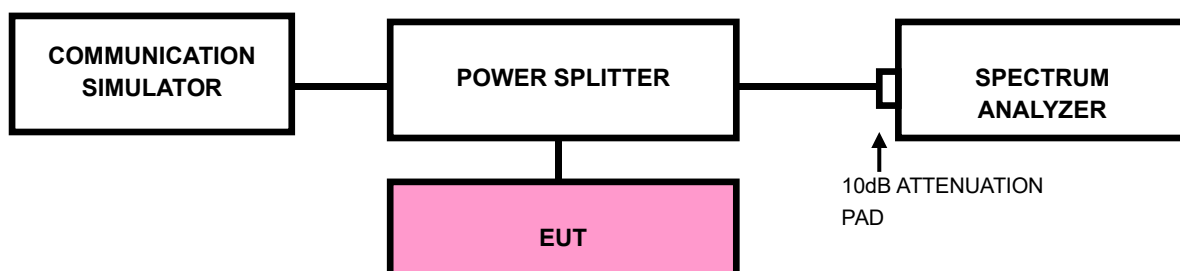
For: LTE Band7/Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: PSZ-NQN2303280110RF08

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 .

For: LTE Band7/ Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

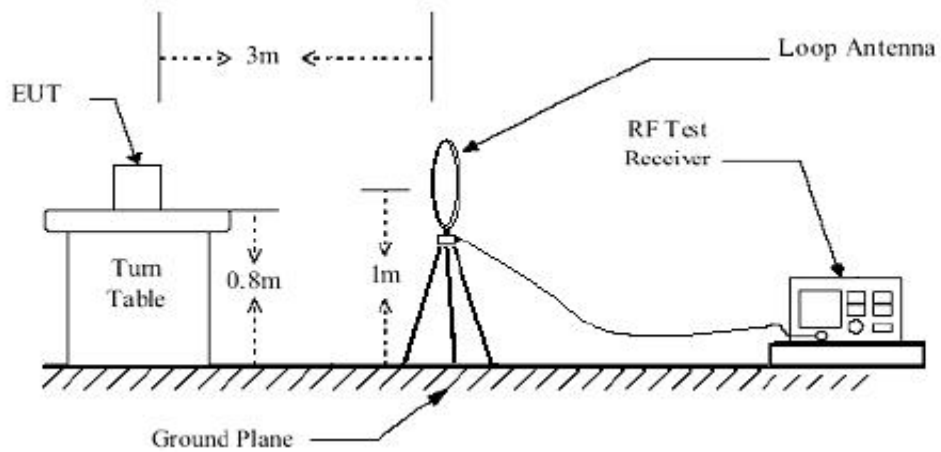
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

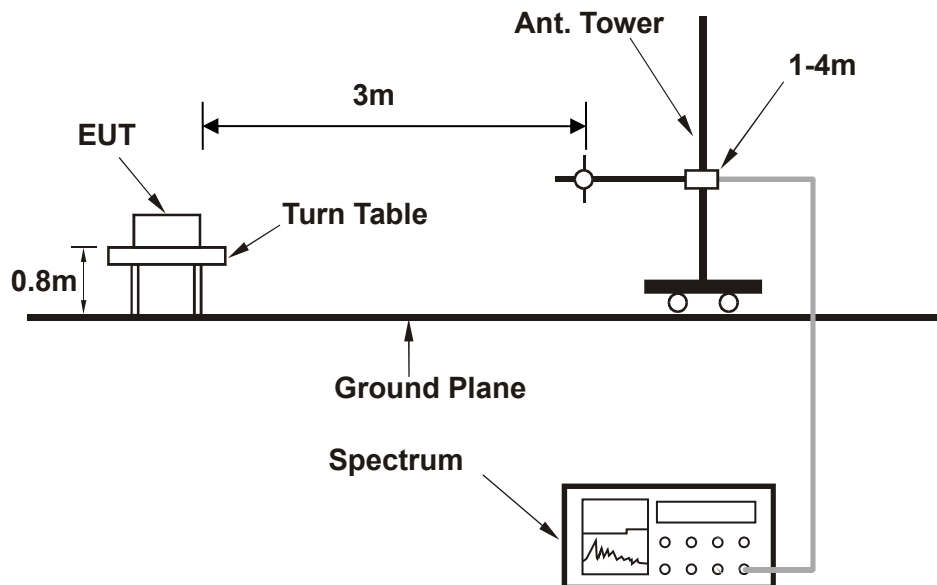
No deviation

3.6.4 TEST SETUP

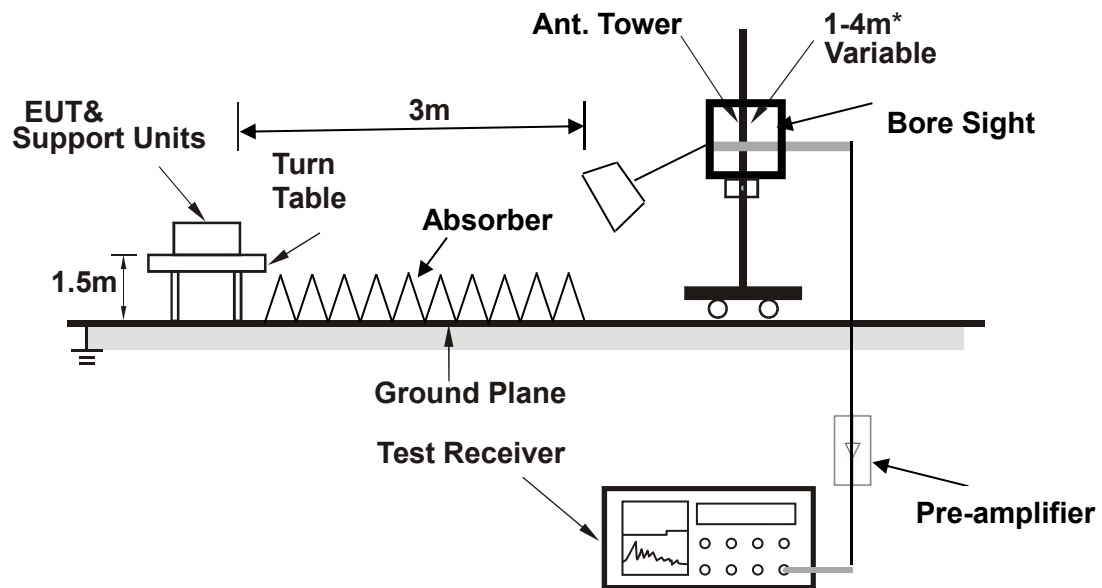
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



3.6.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

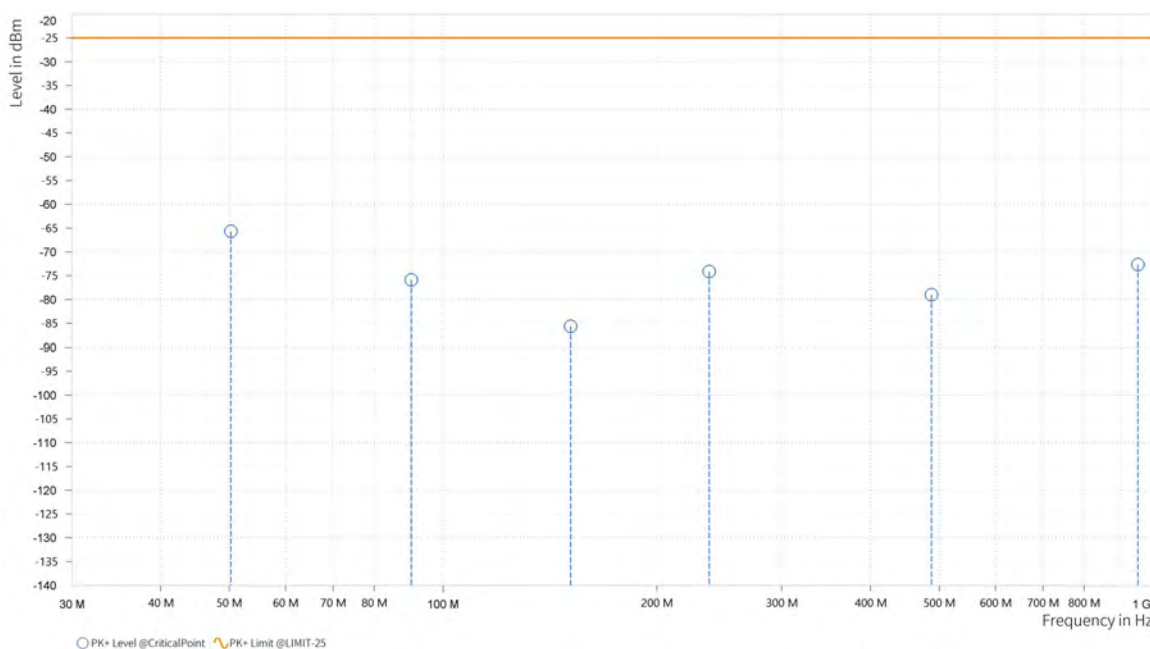
30 MHz – 1GHz data:

LTE Band 41(HPUE)

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 41565	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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]
1	50.250	-65.66	-25.00	40.66	-5.16	H	359	2
1	90.250	-75.91	-25.00	50.91	-10.88	H	173.9	2
1	151.250	-85.65	-25.00	60.65	-14.73	H	173.9	2
1	237.100	-74.14	-25.00	49.14	-6.52	H	355.4	2
2	487.583	-79.04	-25.00	54.04	-0.81	H	1	2
2	952.196	-72.67	-25.00	47.67	6.75	H	260.2	1

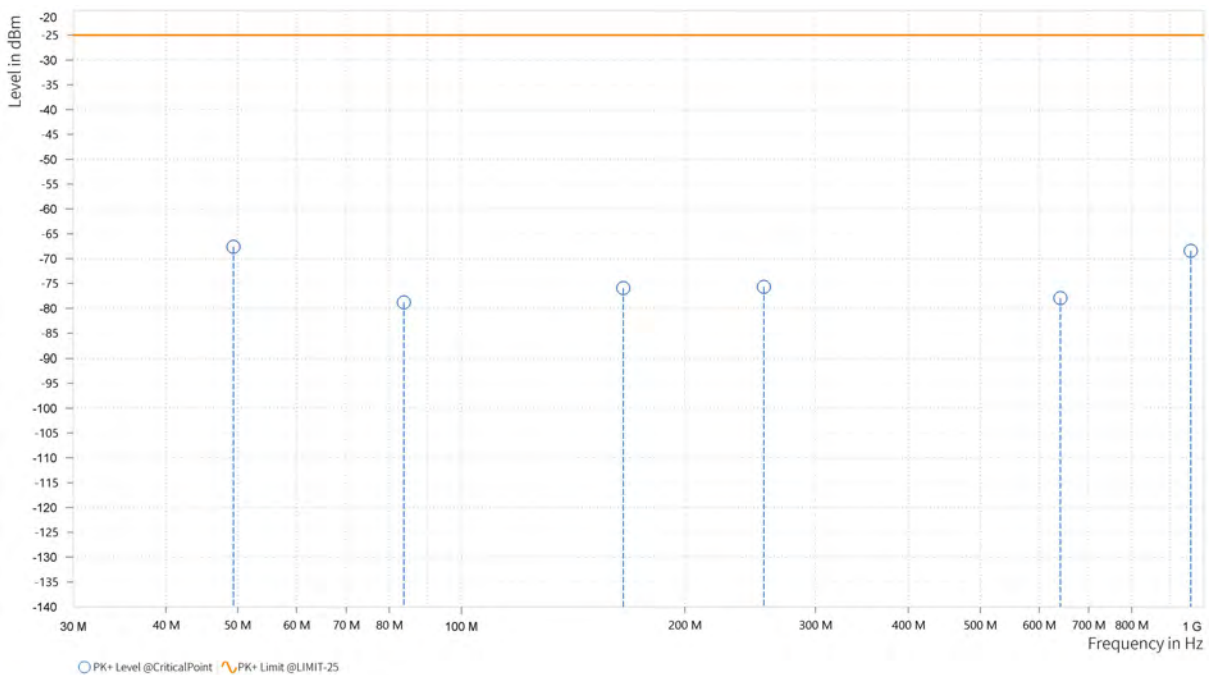




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 41565	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	49.350	-67.65	-25.00	42.65	-7.02	V	355.5	2
1	83.700	-78.83	-25.00	53.83	-11.75	V	0.9	2
1	165.300	-75.94	-25.00	50.94	-10.26	V	355.5	2
1	255.550	-75.69	-25.00	50.69	-6.83	V	359	2
2	641.263	-77.94	-25.00	52.94	0.60	V	0.9	2
2	960.767	-68.43	-25.00	43.43	10.74	V	1	1





BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

ABOVE 1GHz

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

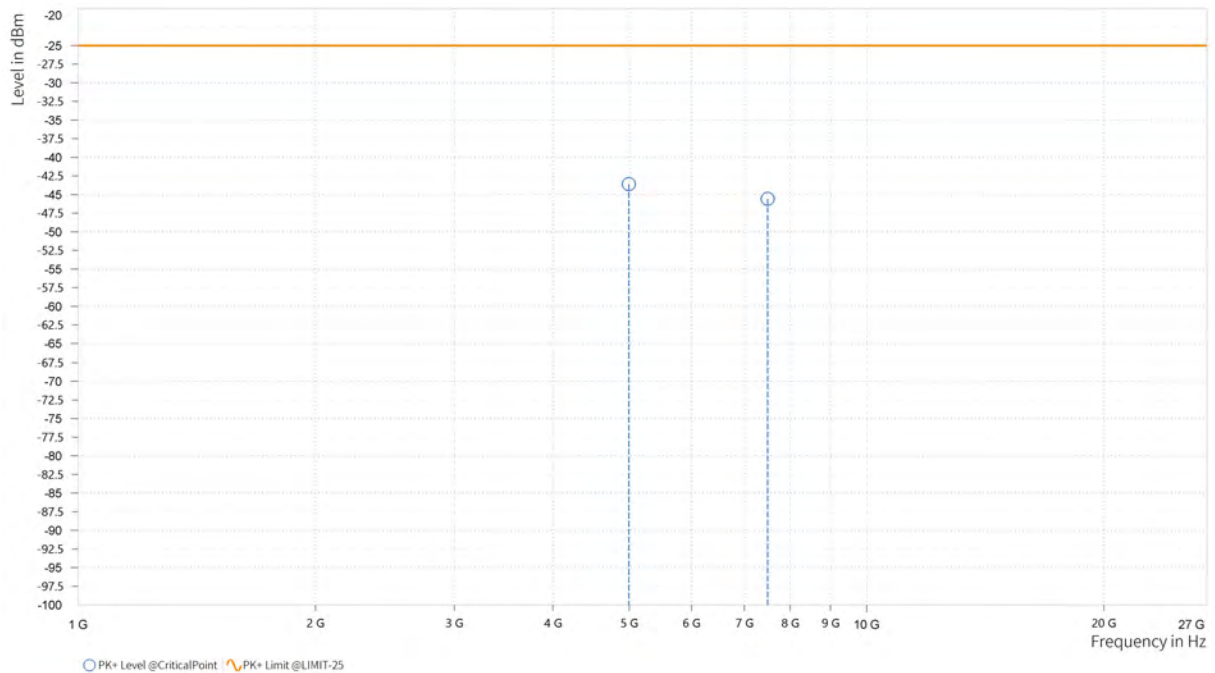
LTE BAND 41

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 39675

MODE	TX channel 39675	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	4,993.500	-43.61	-25.00	18.61	25.47	H	162	2
5	7,489.227	-45.59	-25.00	20.59	29.52	H	0.9	2

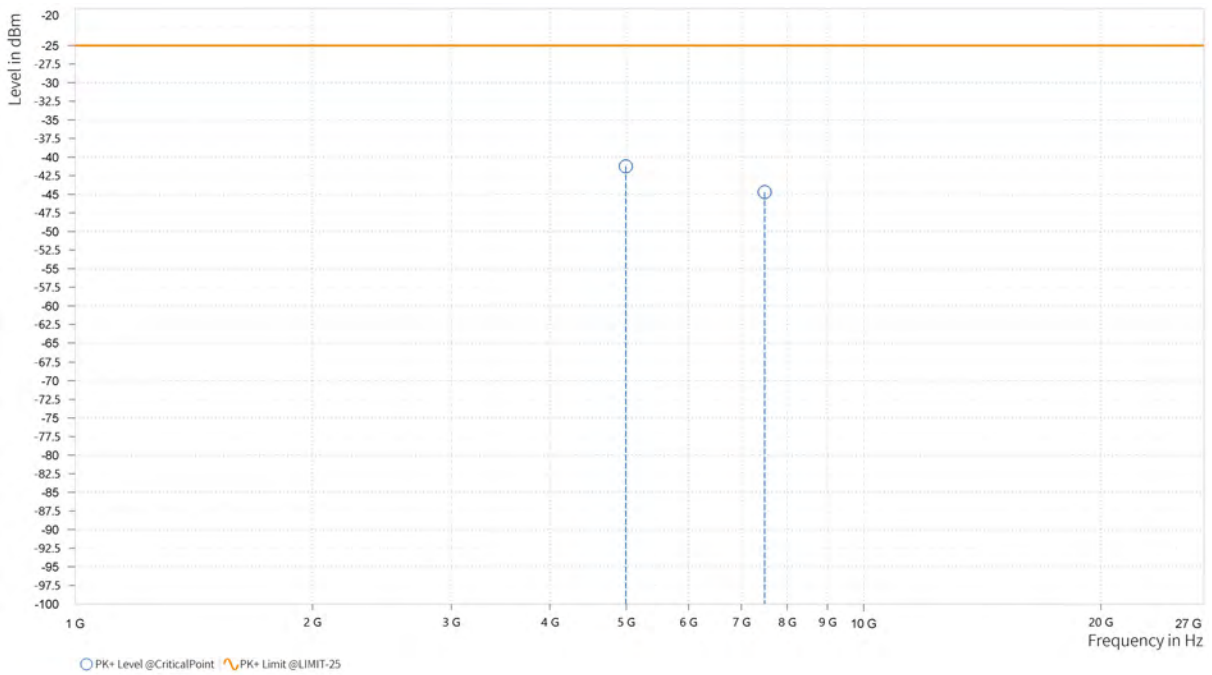




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 39675	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	4,993.000	-41.24	-25.00	16.24	26.32	V	176.4	2
5	7,489.227	-44.72	-25.00	19.72	29.35	V	0.9	2





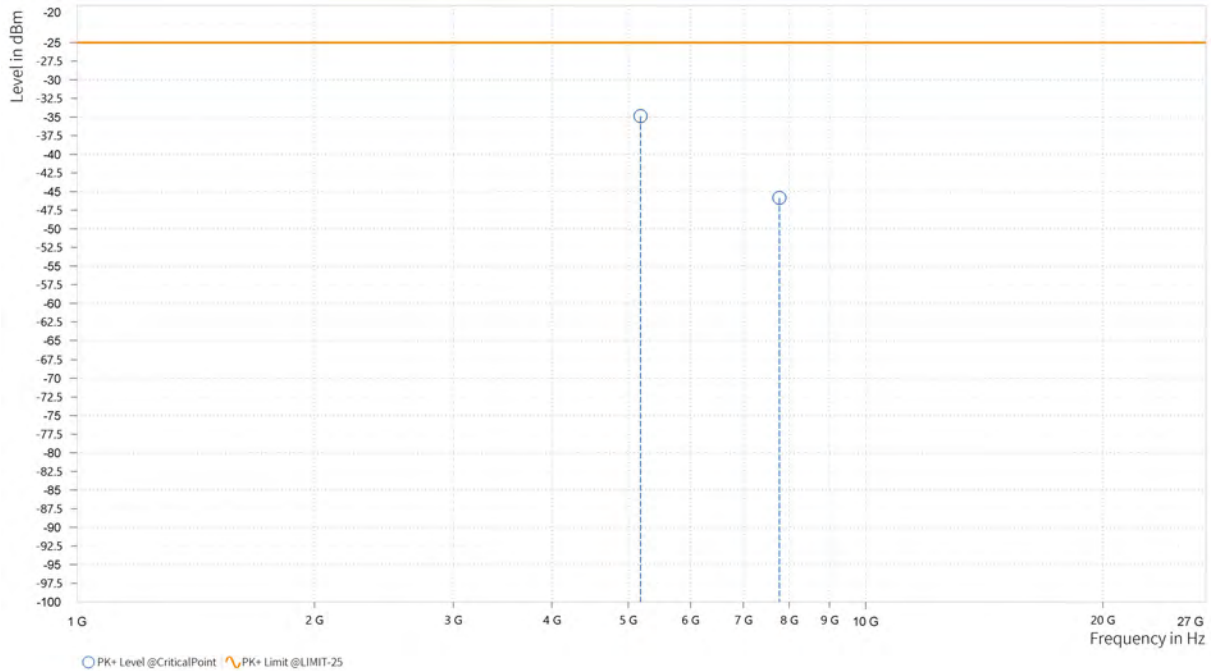
BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

CH 40620

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,182.000	-34.86	-25.00	9.86	27.00	H	183.7	1
5	7,772.561	-45.85	-25.00	20.85	29.85	H	359.1	1

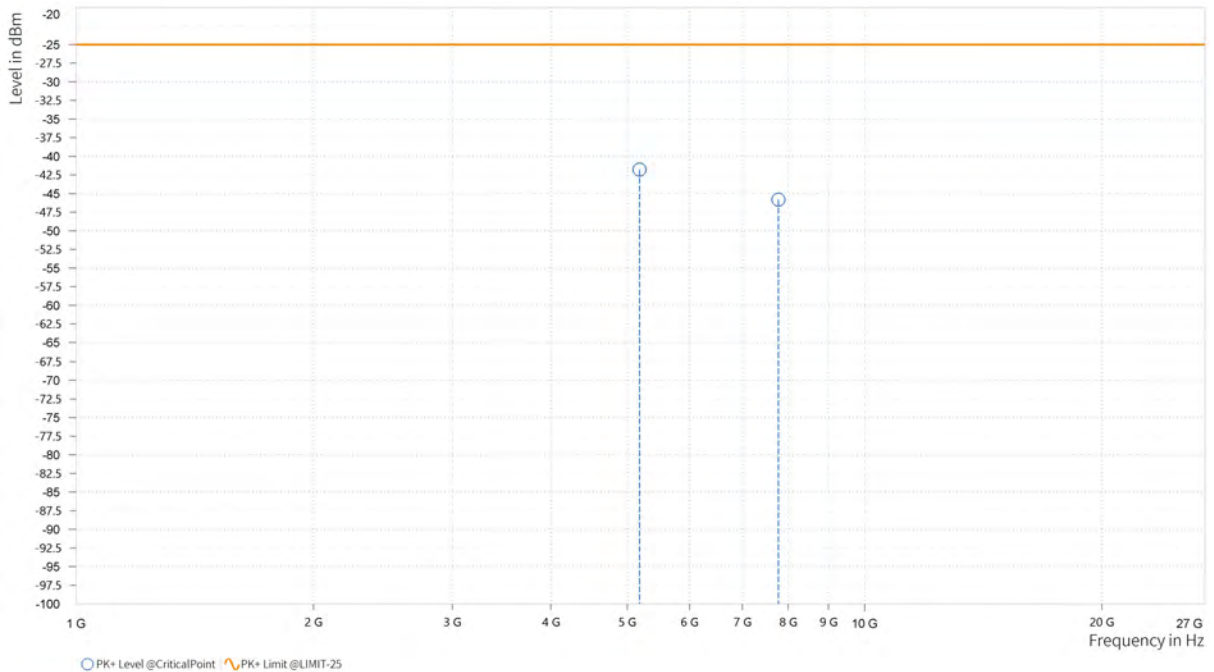




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,181.500	-41.77	-25.00	16.77	27.36	V	177.6	2
5	7,773.333	-45.81	-25.00	20.81	29.58	V	1	1



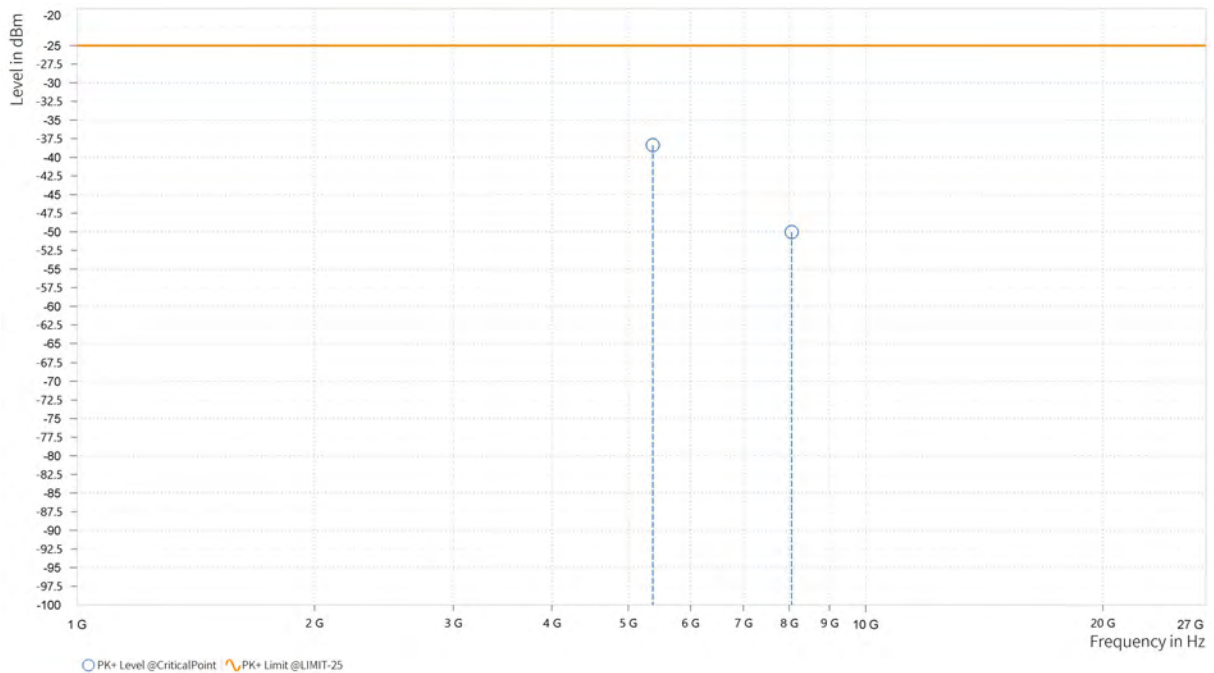


Test Report No.: PSZ-NQN2303280110RF08

CH 41565

MODE	TX channel 41565	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,371.000	-38.35	-25.00	13.35	26.72	H	198.1	1
6	8,056.500	-50.05	-25.00	25.05	19.53	H	0.9	2

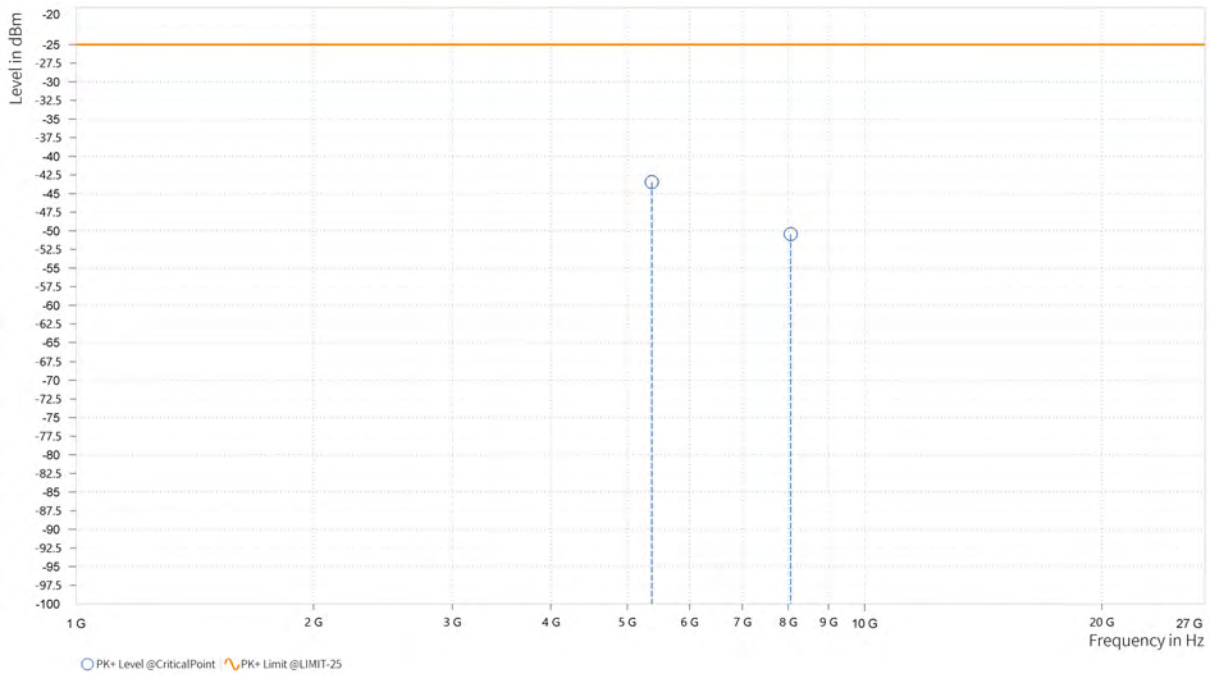




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 41565	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,370.500	-43.46	-25.00	18.46	26.72	V	196.9	1
6	8,056.000	-50.46	-25.00	25.46	18.95	V	359	2



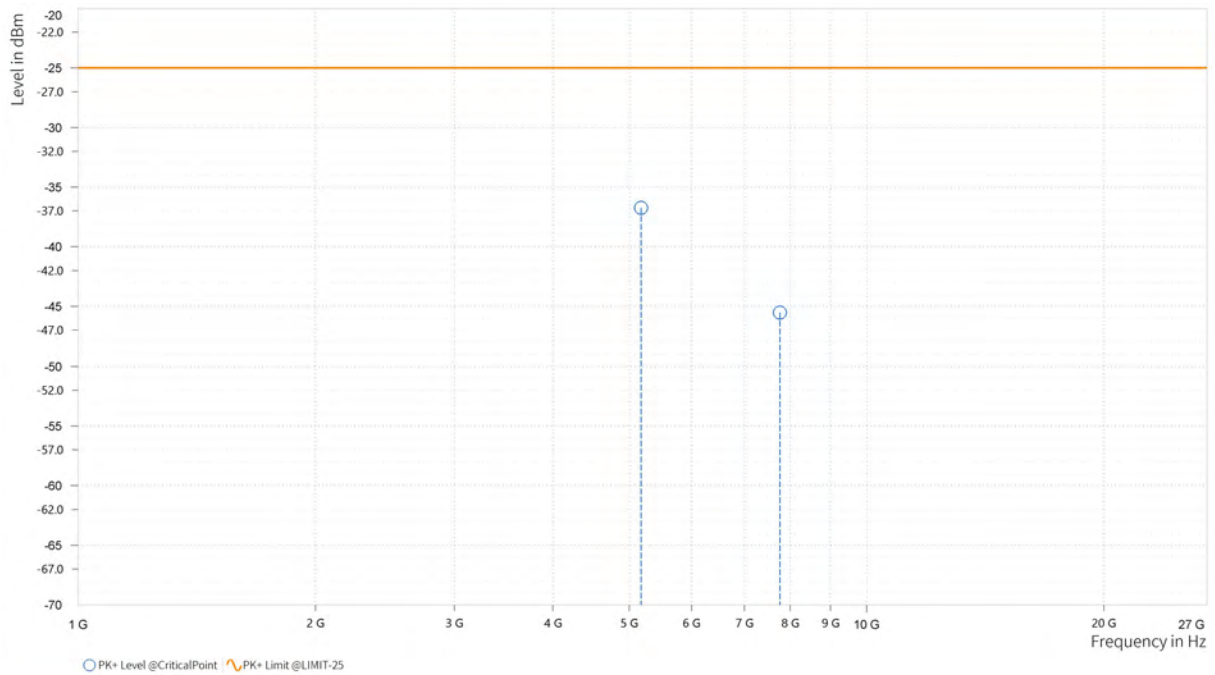


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,177.000	-36.75	-25.00	11.75	26.97	H	359	2
5	7,764.833	-45.54	-25.00	20.54	29.84	H	0.9	2

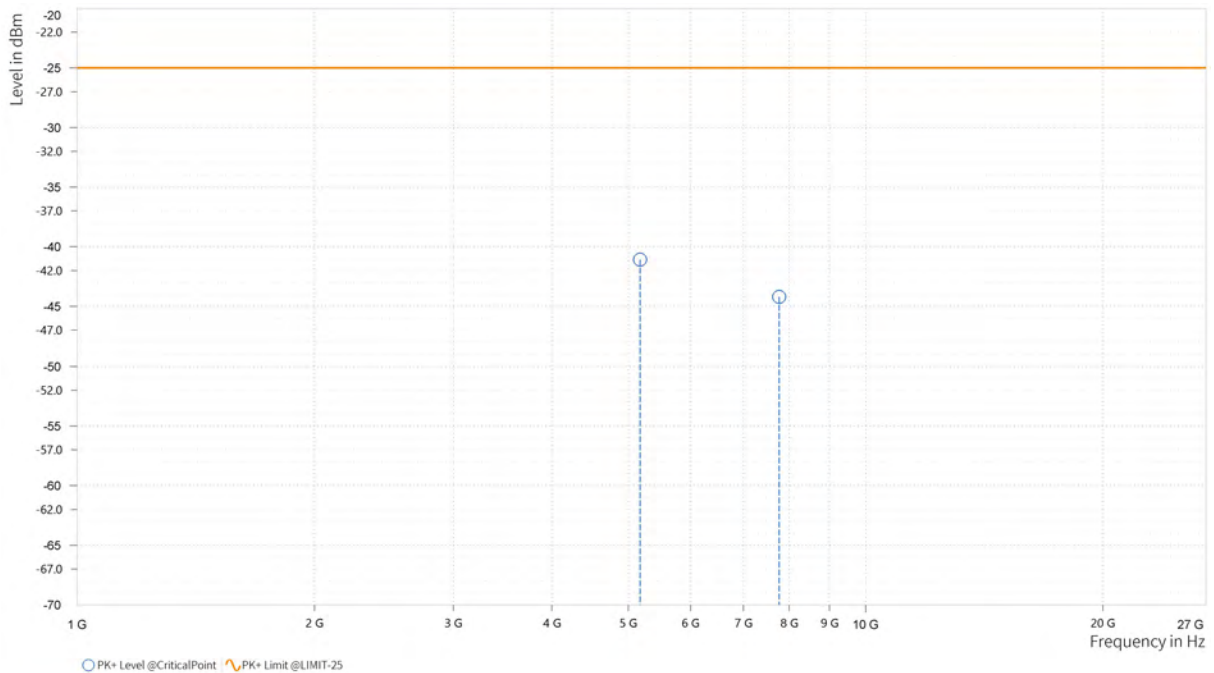




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,177.000	-41.09	-25.00	16.09	27.31	V	1	1
5	7,766.121	-44.22	-25.00	19.22	29.56	V	1	2



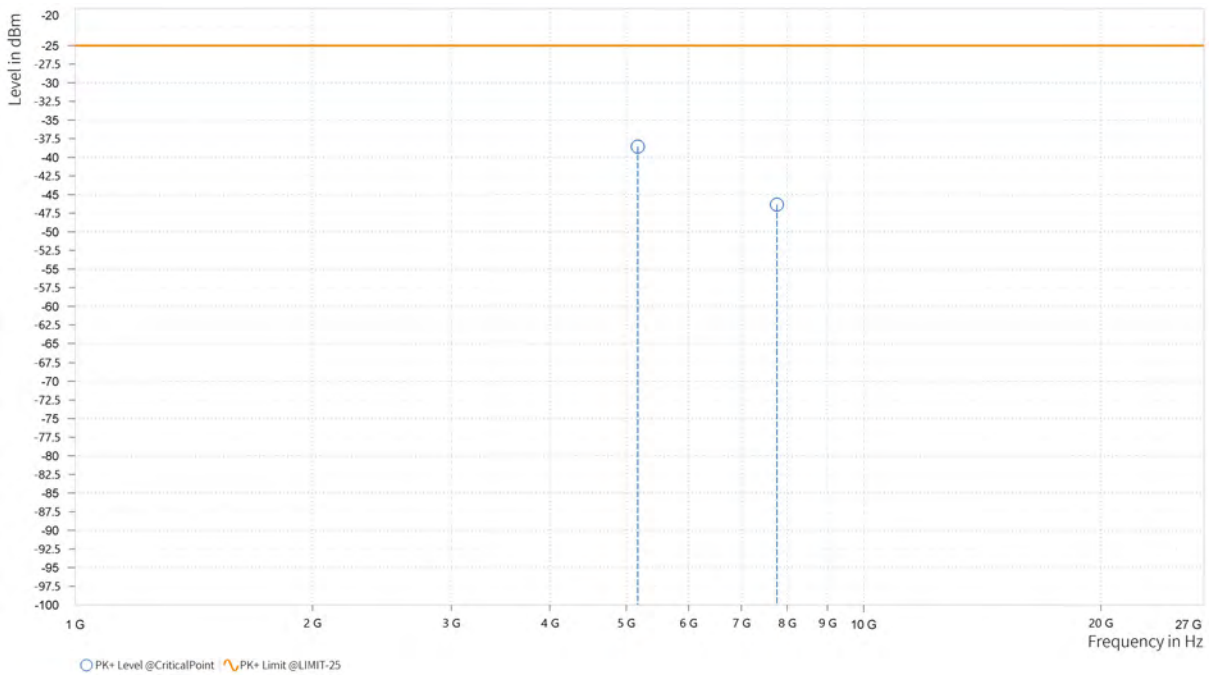


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,173.000	-38.56	-25.00	13.56	26.94	H	163.2	2
5	7,760.455	-46.37	-25.00	21.37	29.86	H	1	2

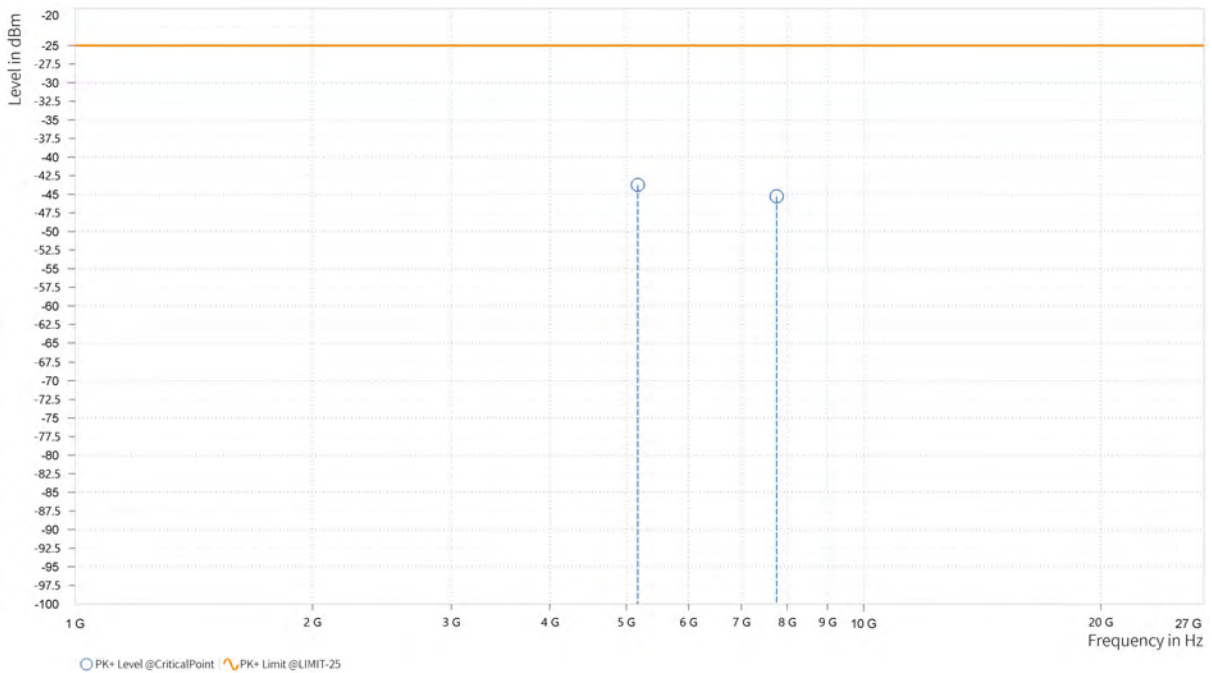




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,173.000	-43.74	-25.00	18.74	27.26	V	359	2
5	7,759.939	-45.27	-25.00	20.27	29.57	V	359	2



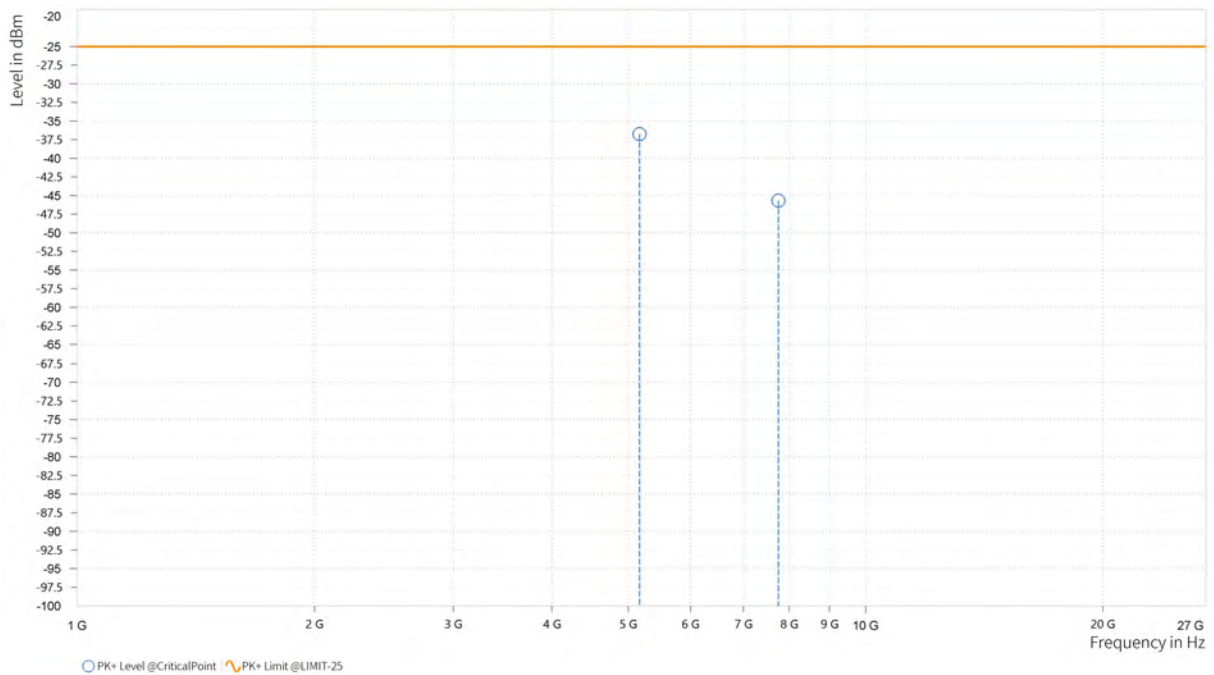


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,168.000	-36.74	-25.00	11.74	26.91	H	163.2	2
5	7,751.955	-45.69	-25.00	20.69	29.91	H	1	1

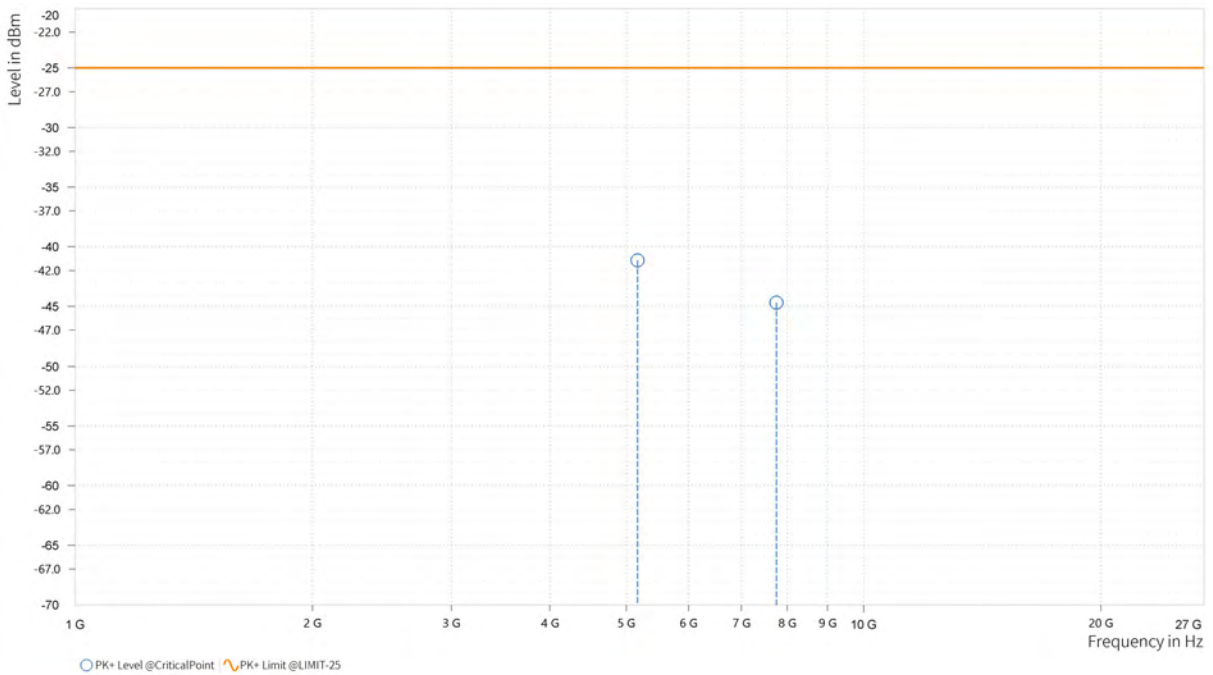




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,168.000	-41.15	-25.00	16.15	27.20	V	176.4	2
5	7,752.212	-44.70	-25.00	19.70	29.60	V	284.1	1





Test Report No.: PSZ-NQN2303280110RF08

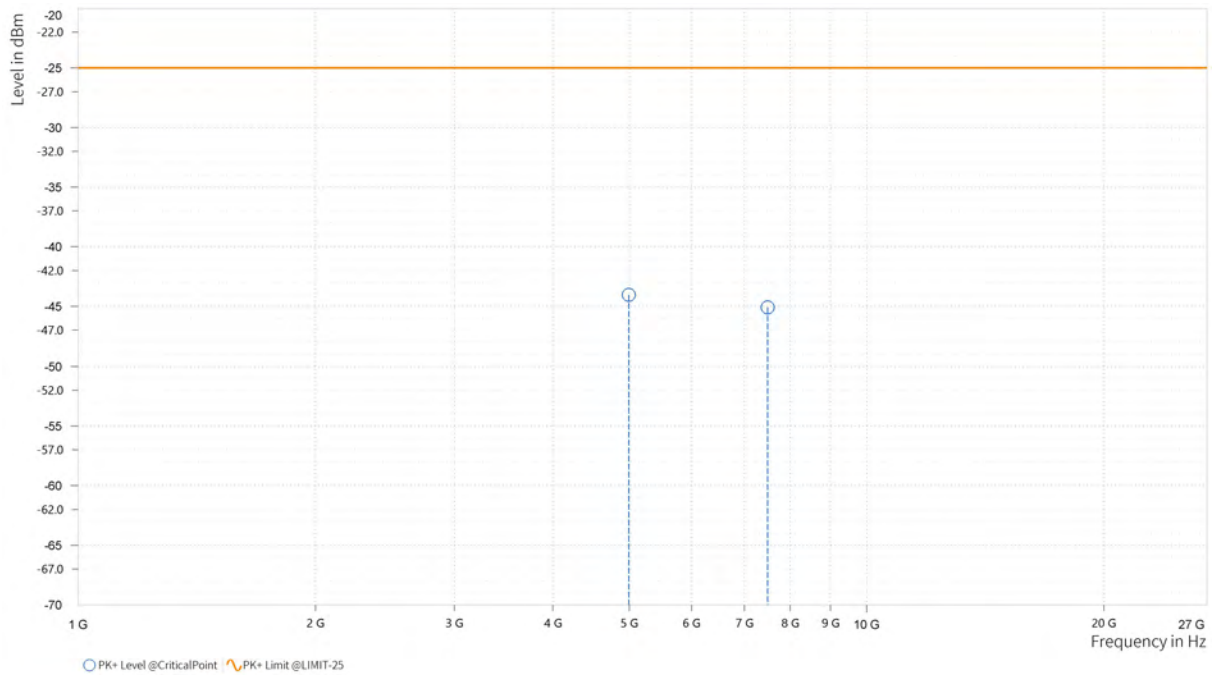
LTE BAND 41(HPUE)

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 39675

MODE	TX channel 39675	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	4,992.500	-44.04	-25.00	19.04	25.48	H	183.8	1
5	7,488.197	-45.09	-25.00	20.09	29.51	H	359	2

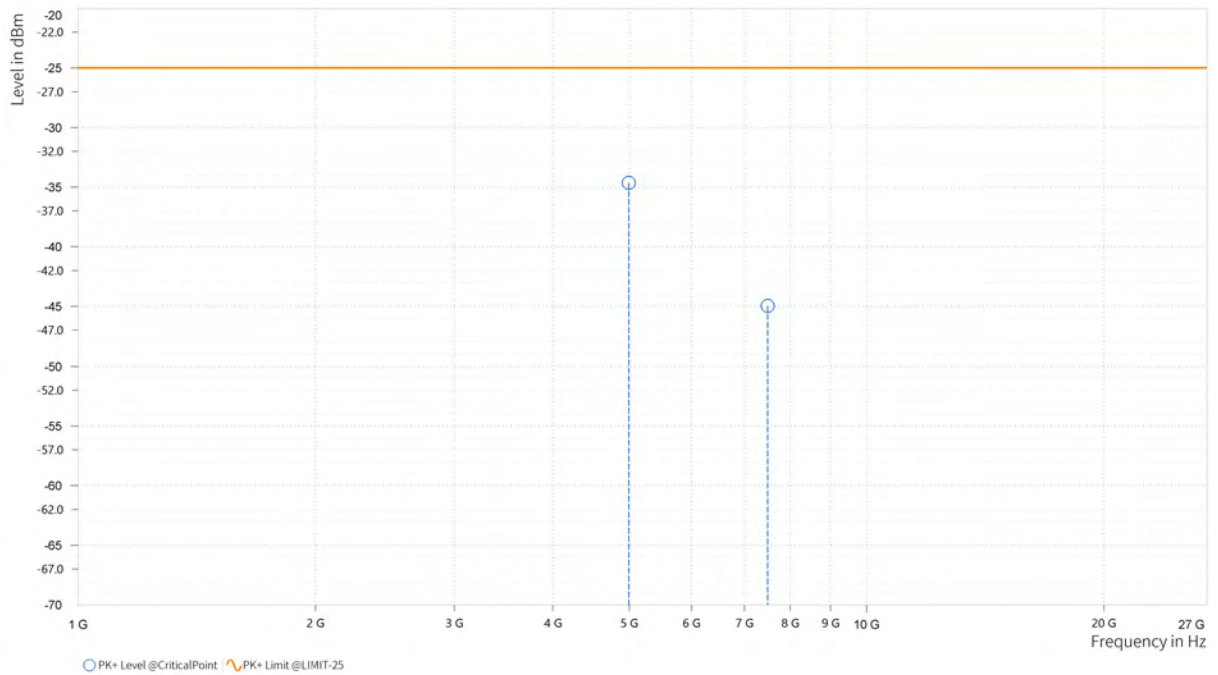




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 39675	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	4,993.000	-34.64	-25.00	9.64	26.32	V	1	2
5	7,487.939	-44.97	-25.00	19.97	29.34	V	359	2



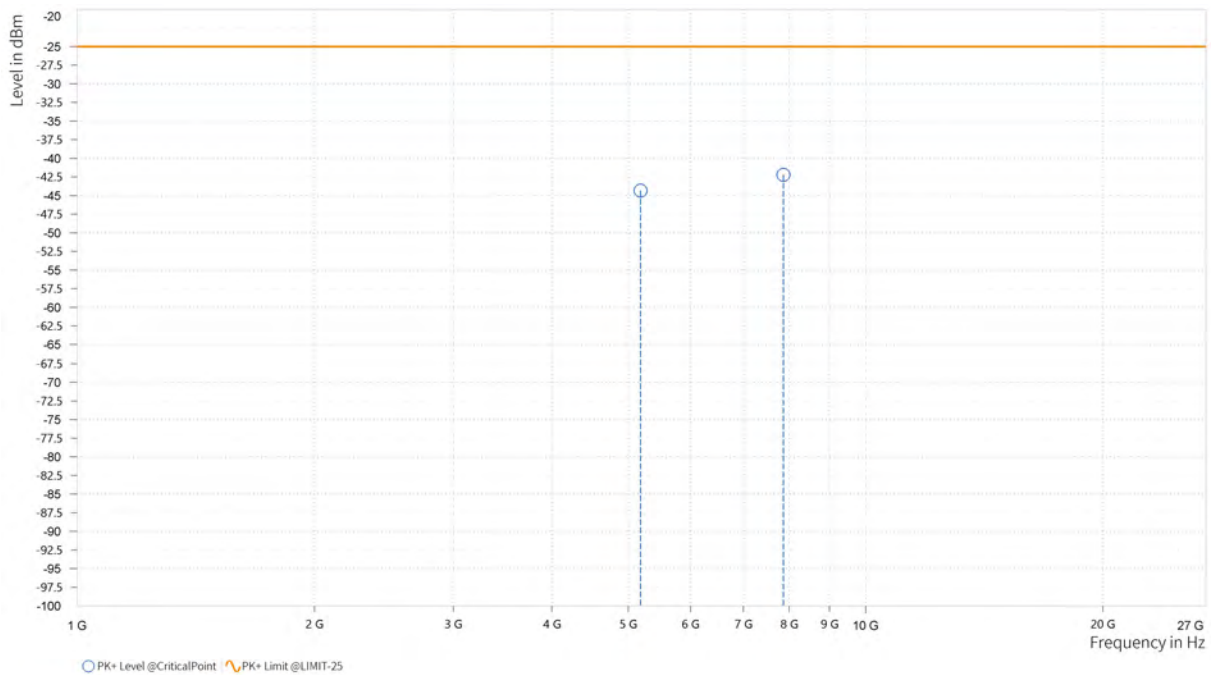


Test Report No.: PSZ-NQN2303280110RF08

CH 40620

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,182.000	-44.33	-25.00	19.33	27.00	H	1	1
5	7,867.864	-42.23	-25.00	17.23	29.98	H	91.5	2

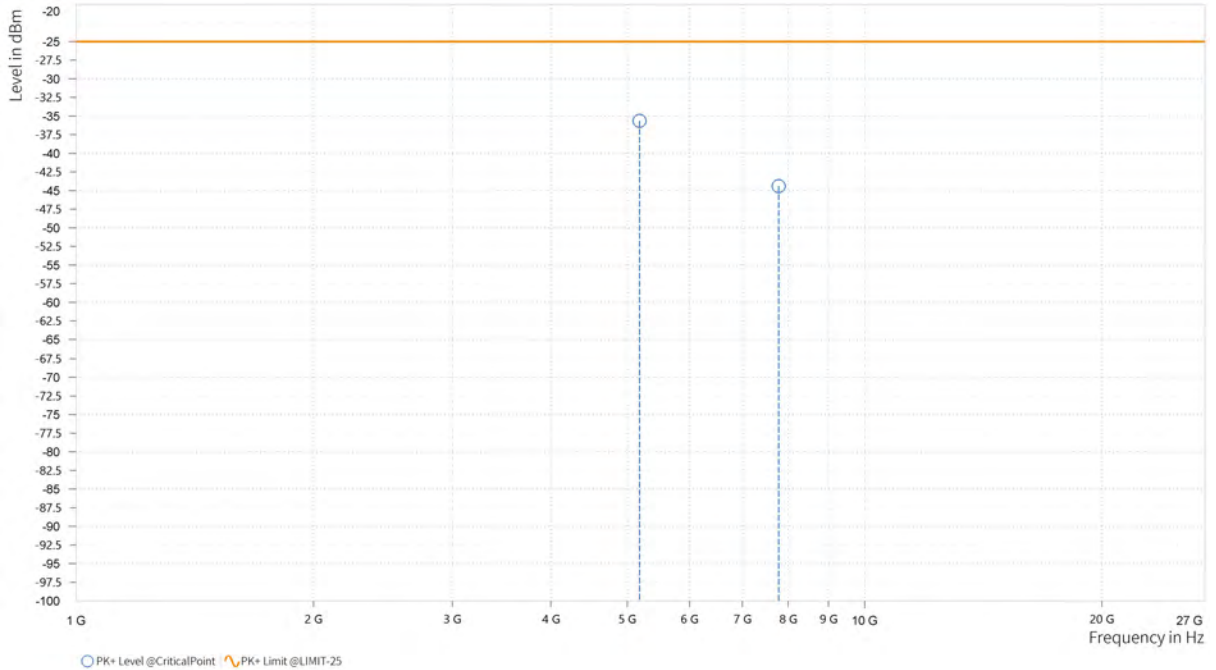




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,181.500	-35.66	-25.00	10.66	27.36	V	1	2
5	7,778.227	-44.42	-25.00	19.42	29.60	V	1	2



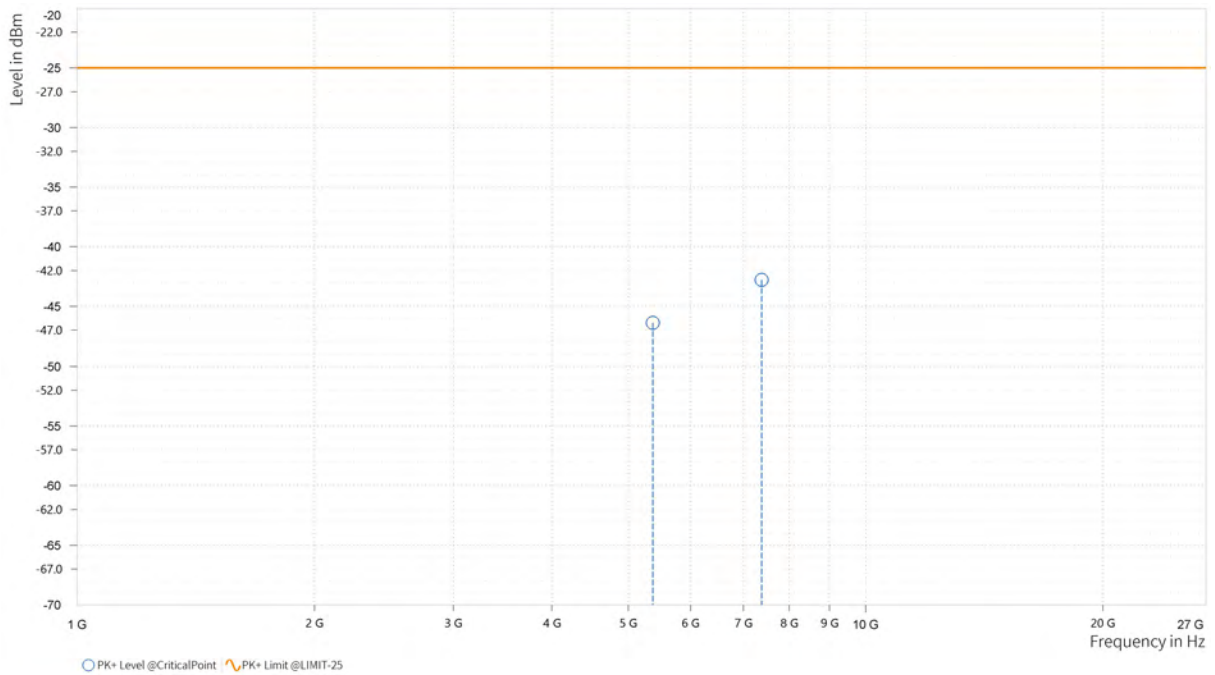


Test Report No.: PSZ-NQN2303280110RF08

CH 41565

MODE	TX channel 41565	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,370.000	-46.40	-25.00	21.40	26.72	H	359	2
5	7,381.561	-42.79	-25.00	17.79	29.69	H	1	1

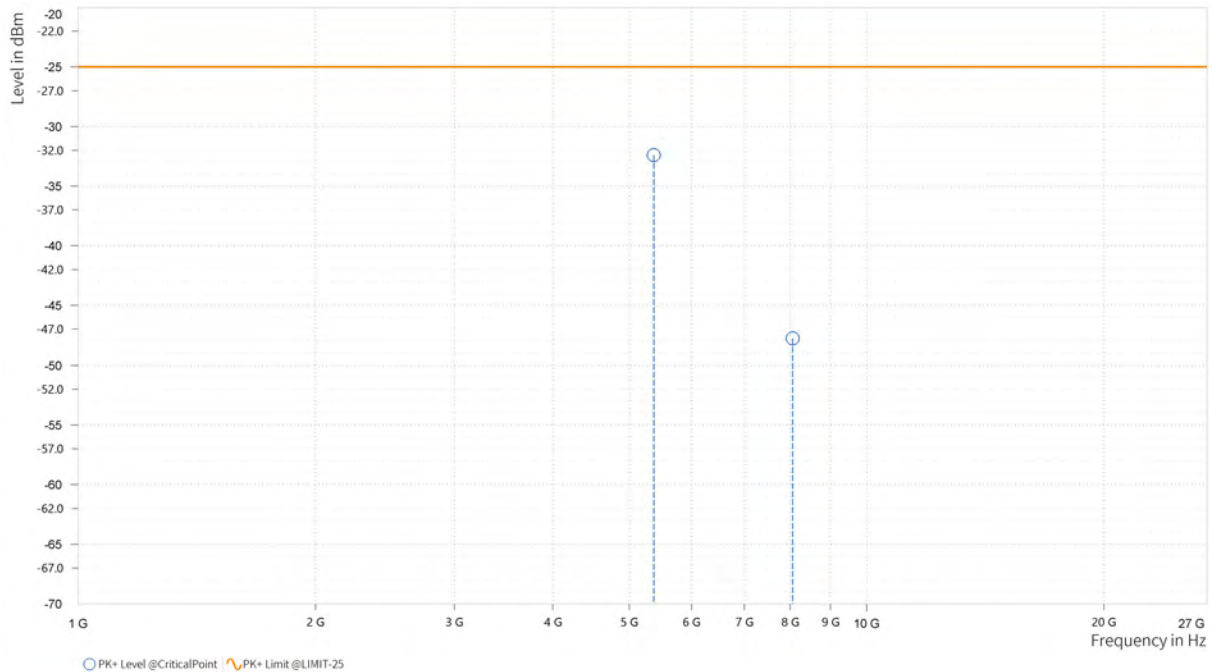




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 41565	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,370.500	-32.40	-25.00	7.40	26.72	V	359	2
6	8,056.000	-47.79	-25.00	22.79	18.95	V	14.1	2



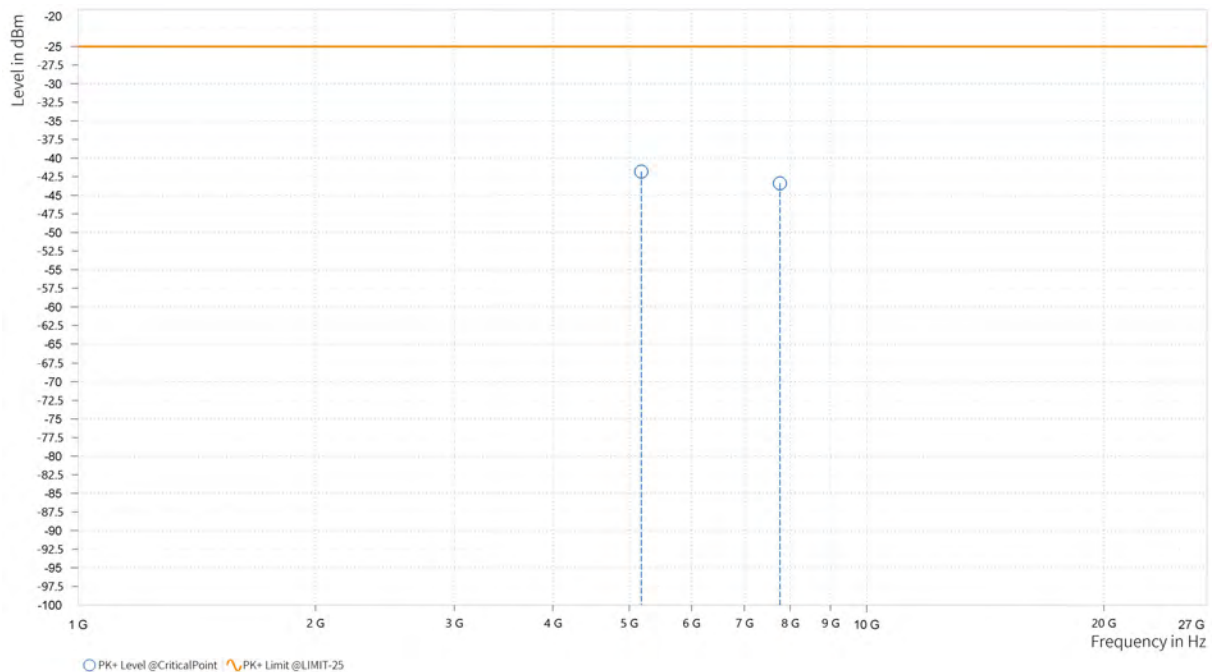


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,177.500	-41.81	-25.00	16.81	26.97	H	359	2
5	7,763.545	-43.41	-25.00	18.41	29.84	H	1	1

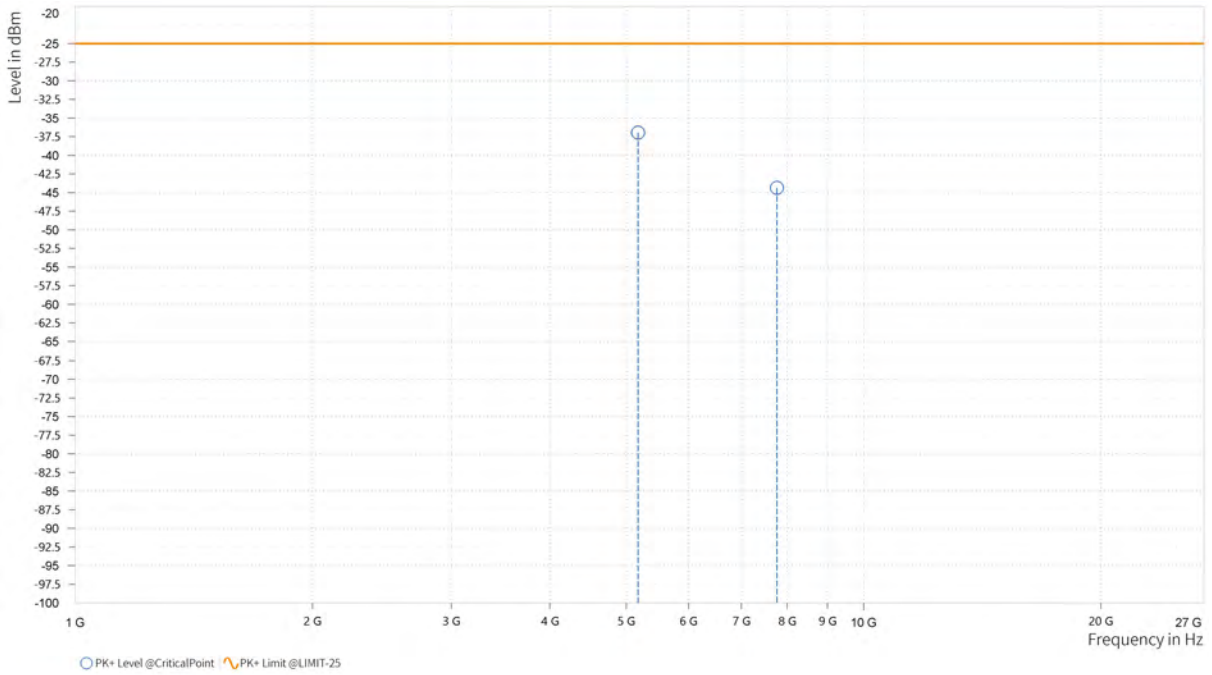




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,177.000	-36.94	-25.00	11.94	27.31	V	359	2
5	7,765.606	-44.36	-25.00	19.36	29.56	V	1	1



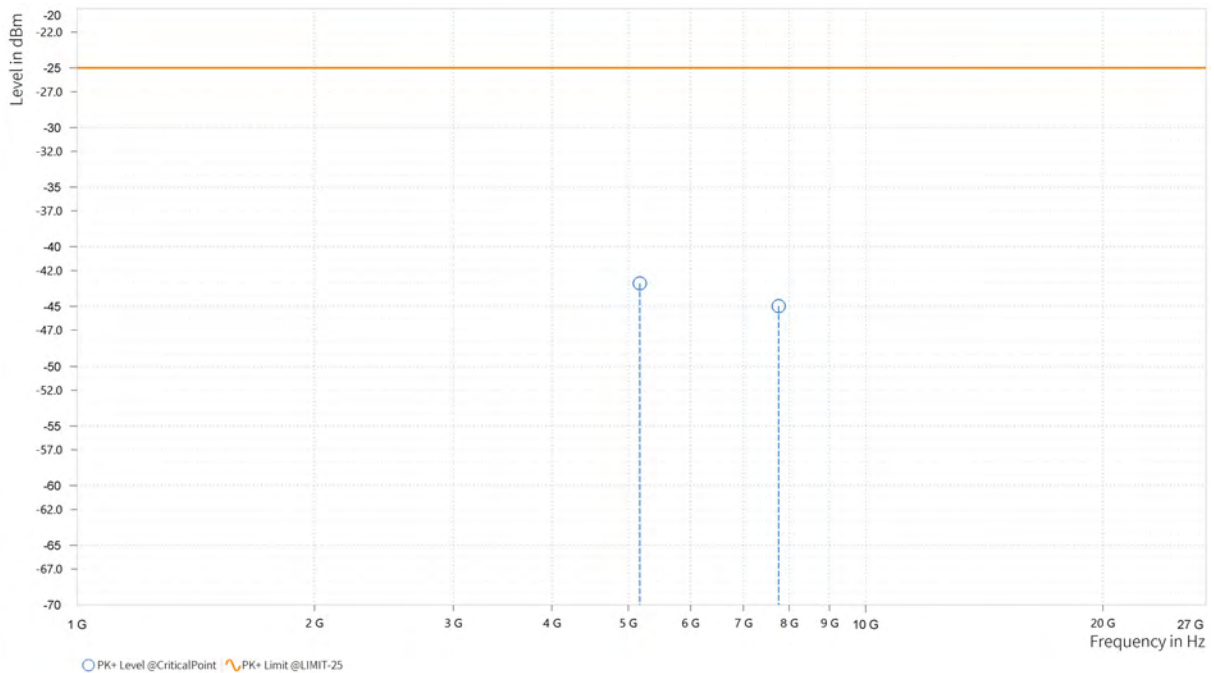


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,172.500	-43.07	-25.00	18.07	26.94	H	359	2
5	7,759.167	-44.98	-25.00	19.98	29.87	H	1	1

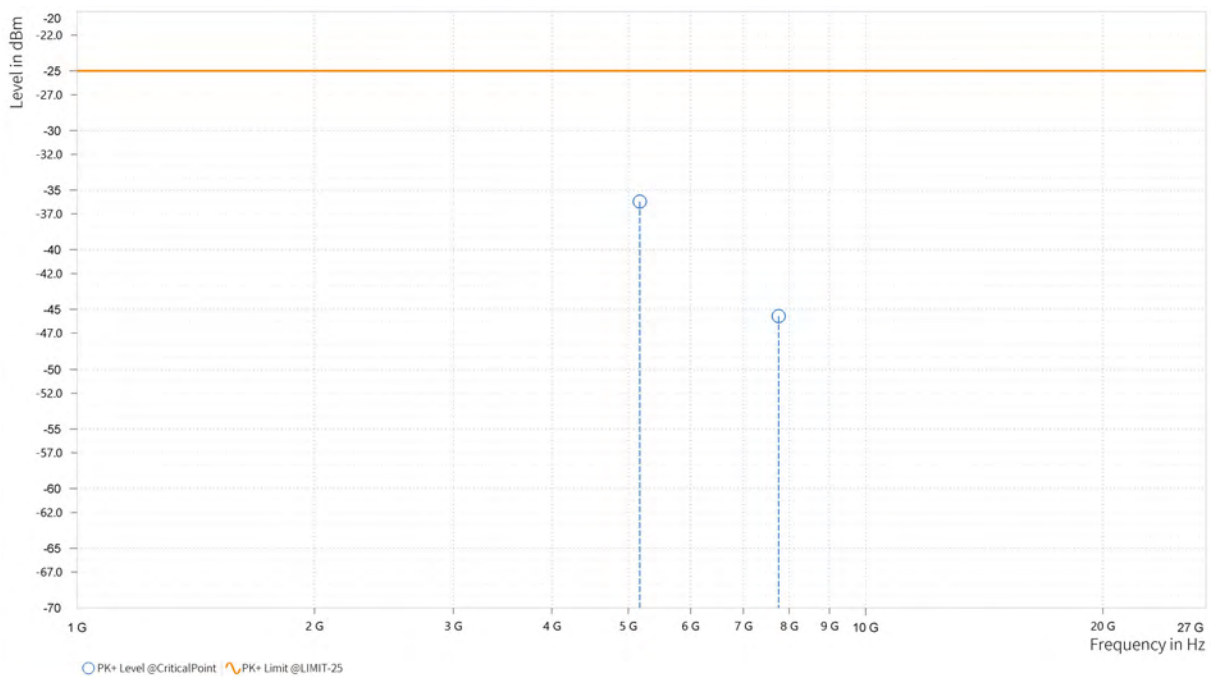




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,172.500	-35.96	-25.00	10.96	27.25	V	359	2
5	7,759.167	-45.58	-25.00	20.58	29.58	V	293.7	1



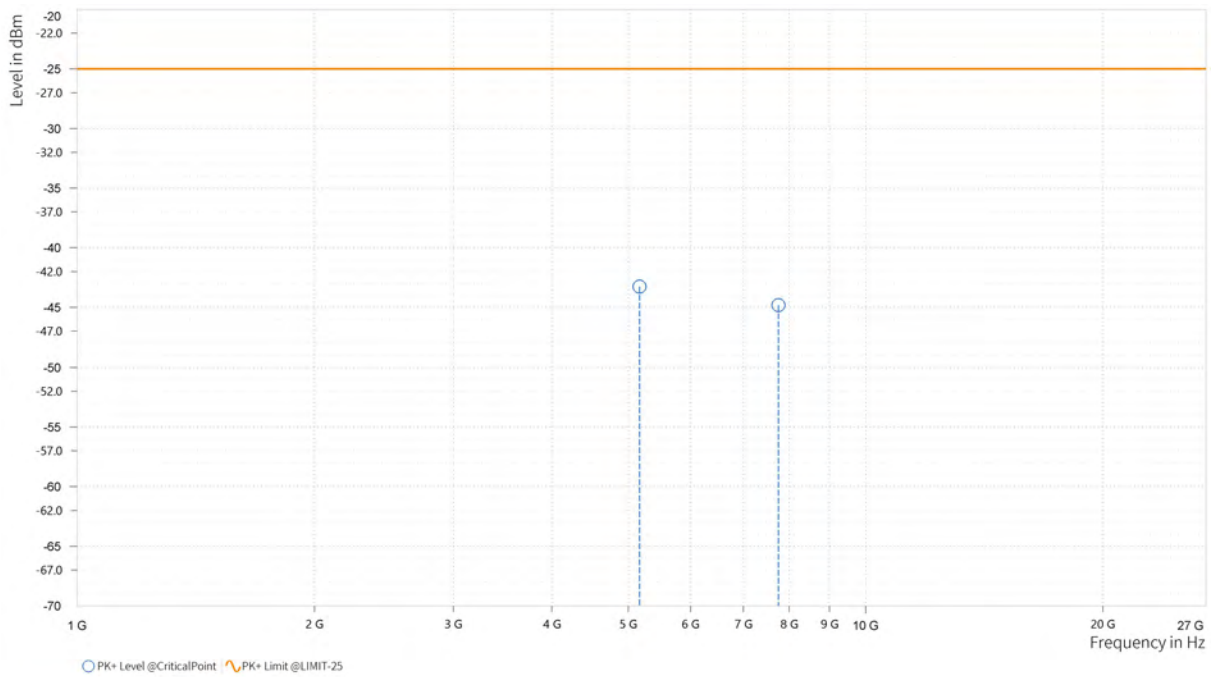


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,168.500	-43.27	-25.00	18.27	26.92	H	359	2
5	7,751.955	-44.82	-25.00	19.82	29.91	H	359	2

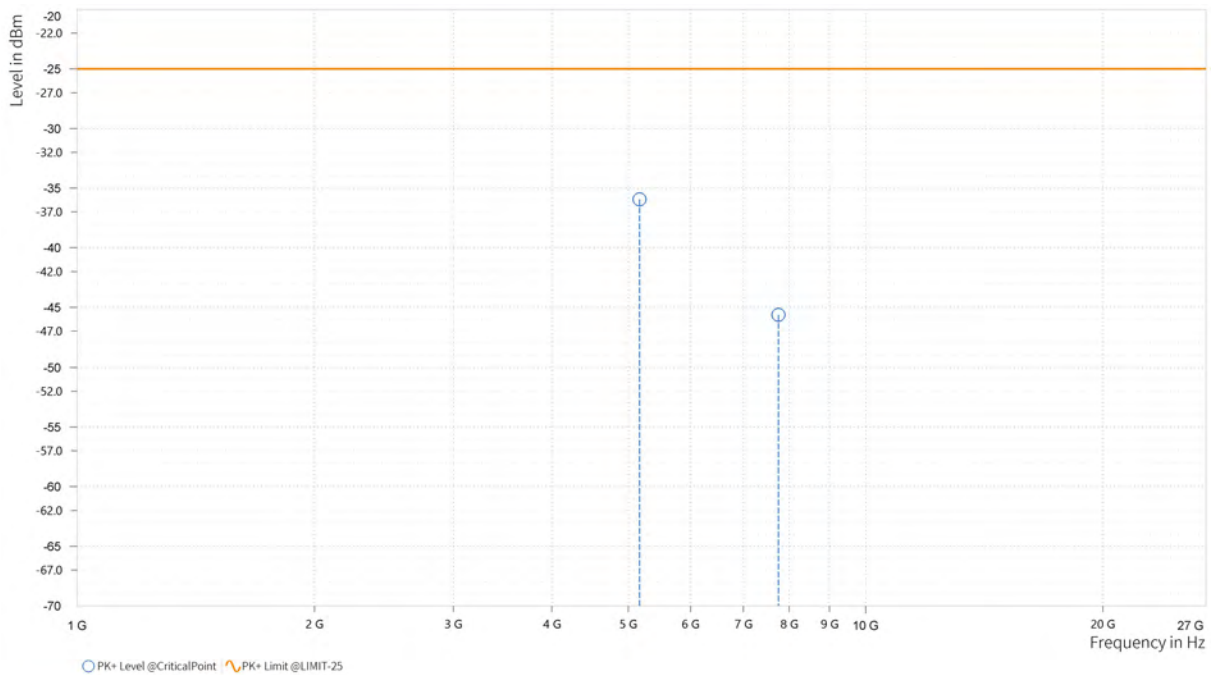




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Chao Wu		
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	5,168.000	-35.95	-25.00	10.95	27.20	V	1	2
5	7,751.955	-45.64	-25.00	20.64	29.60	V	1	2





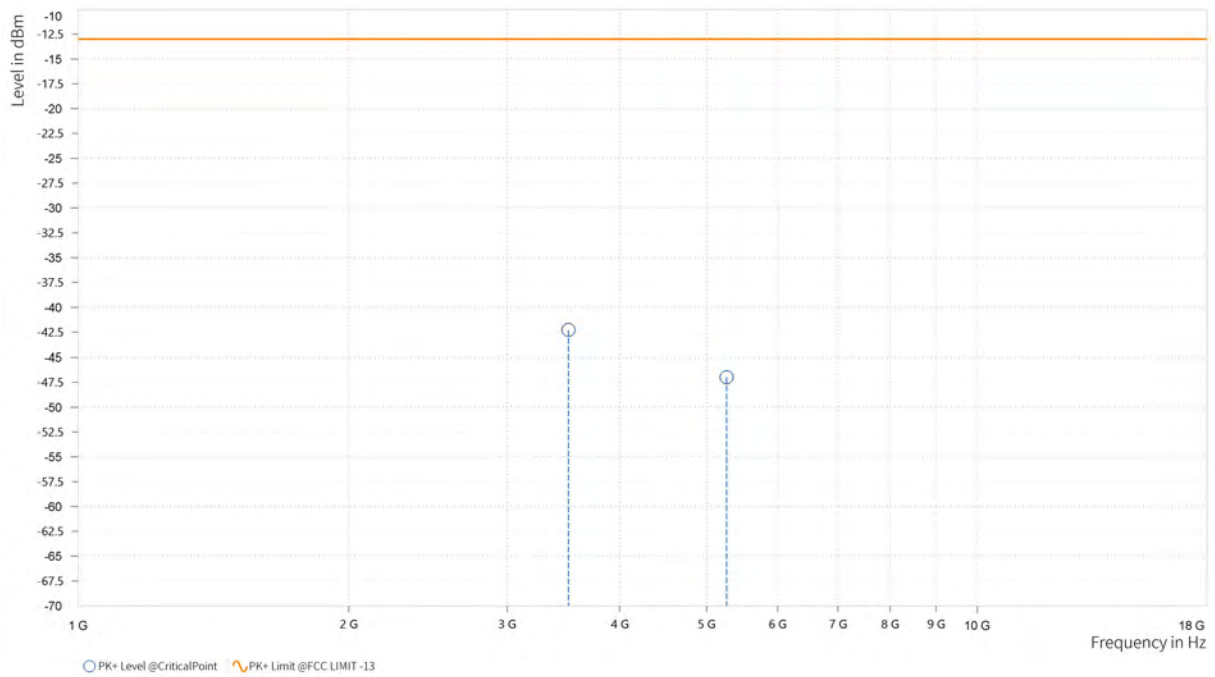
Test Report No.: PSZ-NQN2303280110RF08

LTE B66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,510.000	-42.29	-13.00	29.29	25.14	H	359	2
4	5,263.000	-47.00	-13.00	34.00	27.46	H	183.8	1

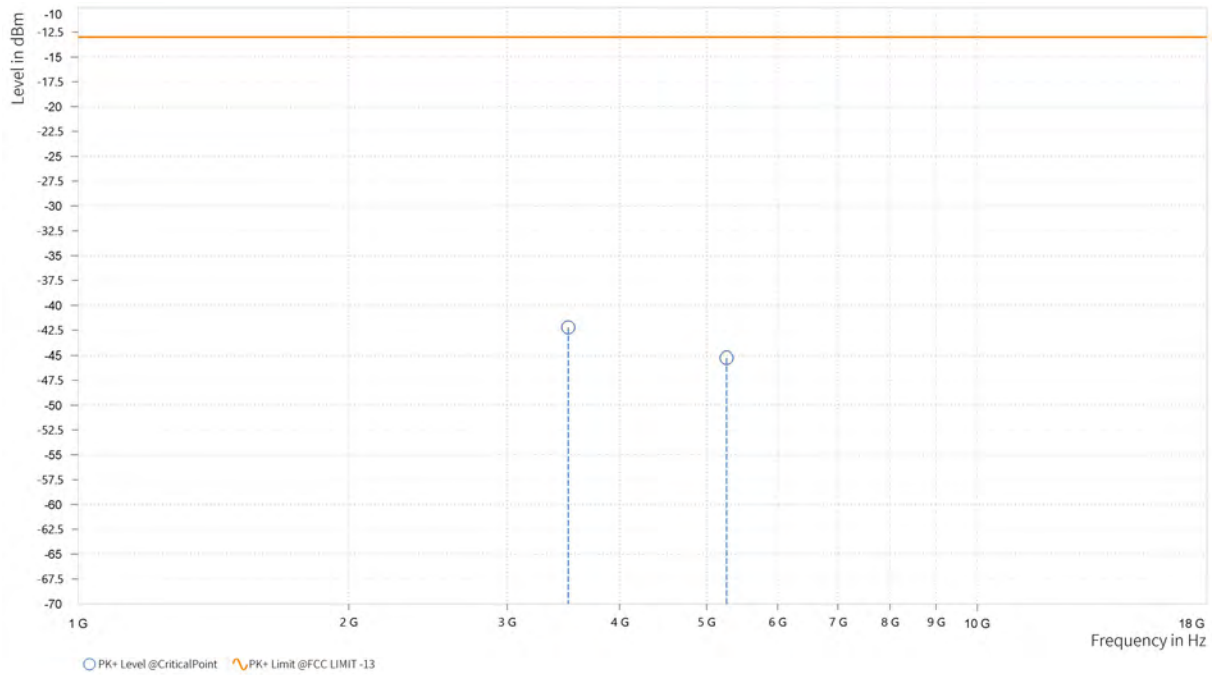




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,509.500	-42.23	-13.00	29.23	25.84	V	1	1
4	5,264.500	-45.26	-13.00	32.26	27.70	V	359	2



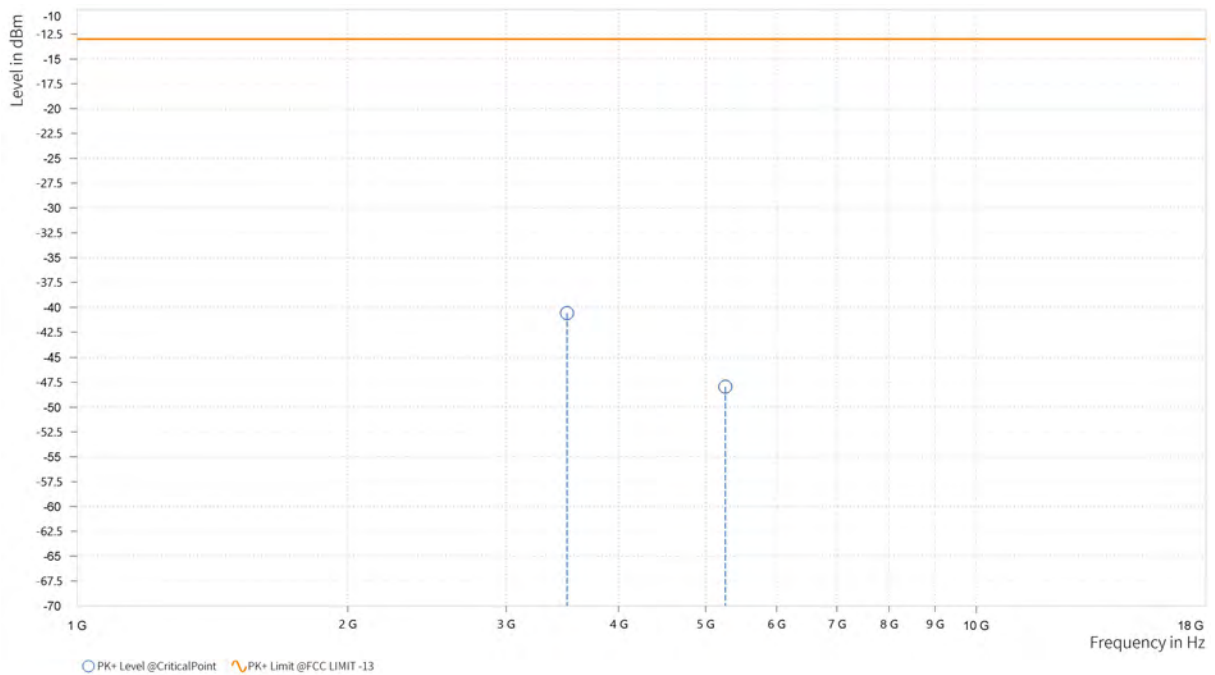


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,507.000	-40.60	-13.00	27.60	25.11	H	359	2
4	5,260.500	-47.96	-13.00	34.96	27.45	H	0.9	2

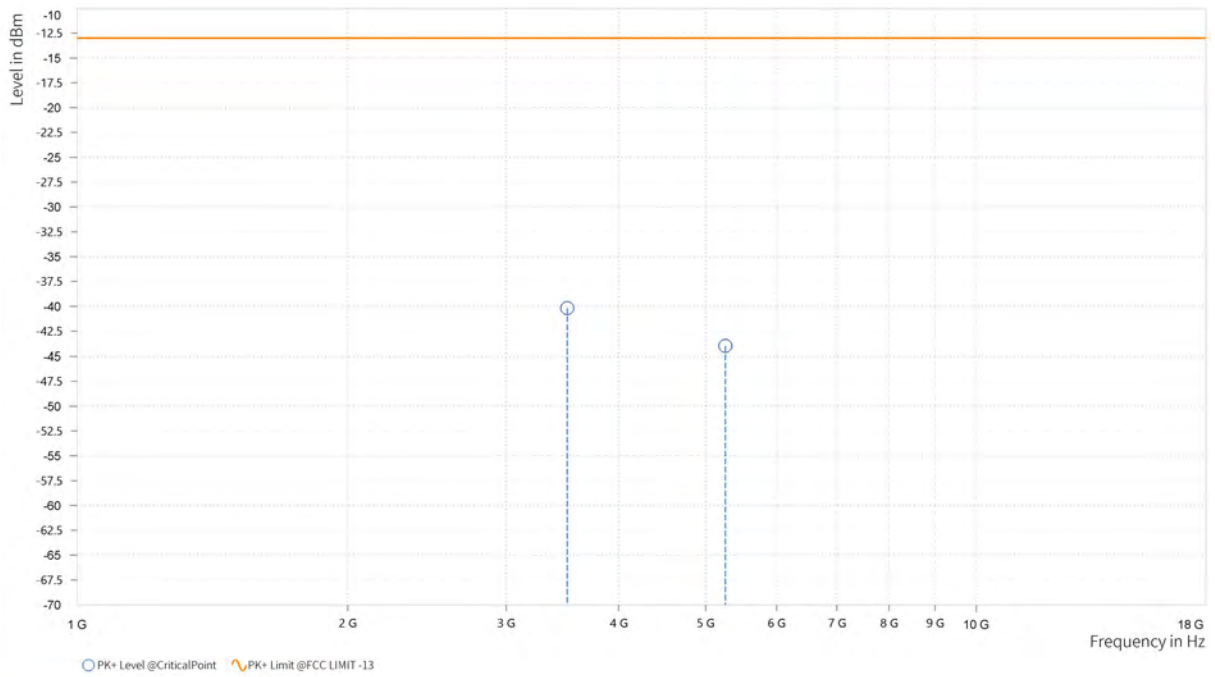




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,507.500	-40.19	-13.00	27.19	25.81	V	1	1
4	5,261.000	-44.00	-13.00	31.00	27.68	V	1	2



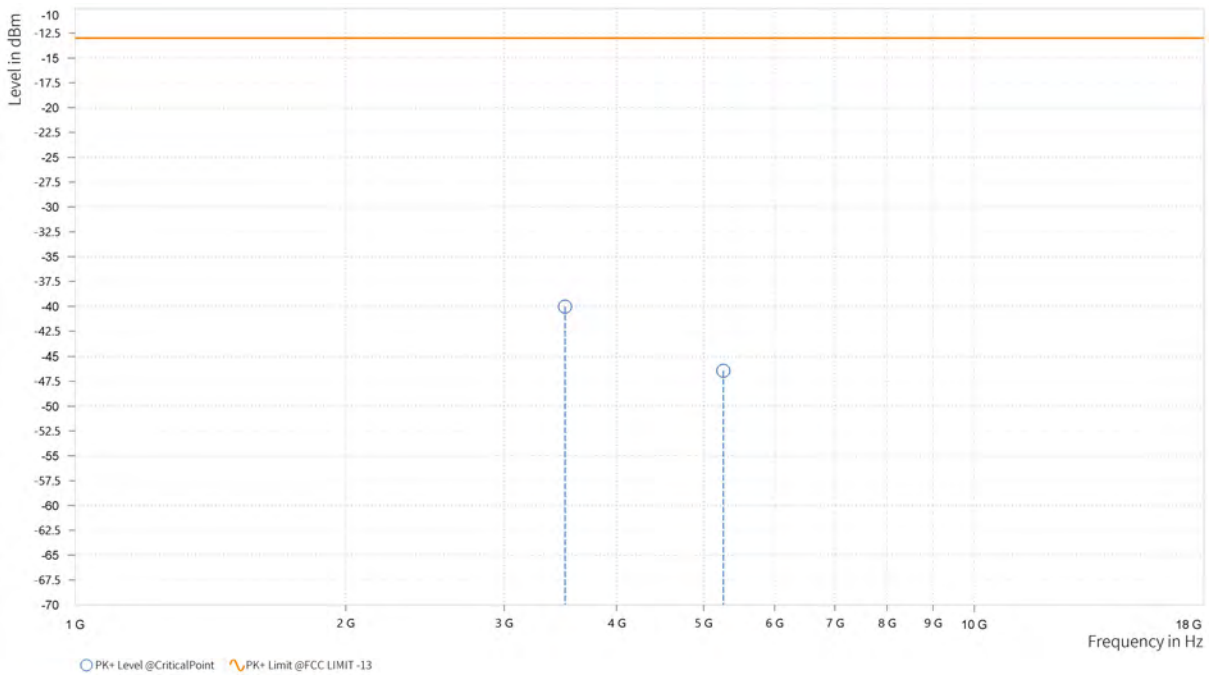


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,505.500	-40.03	-13.00	27.03	25.10	H	359	1
4	5,259.000	-46.43	-13.00	33.43	27.44	H	359	2

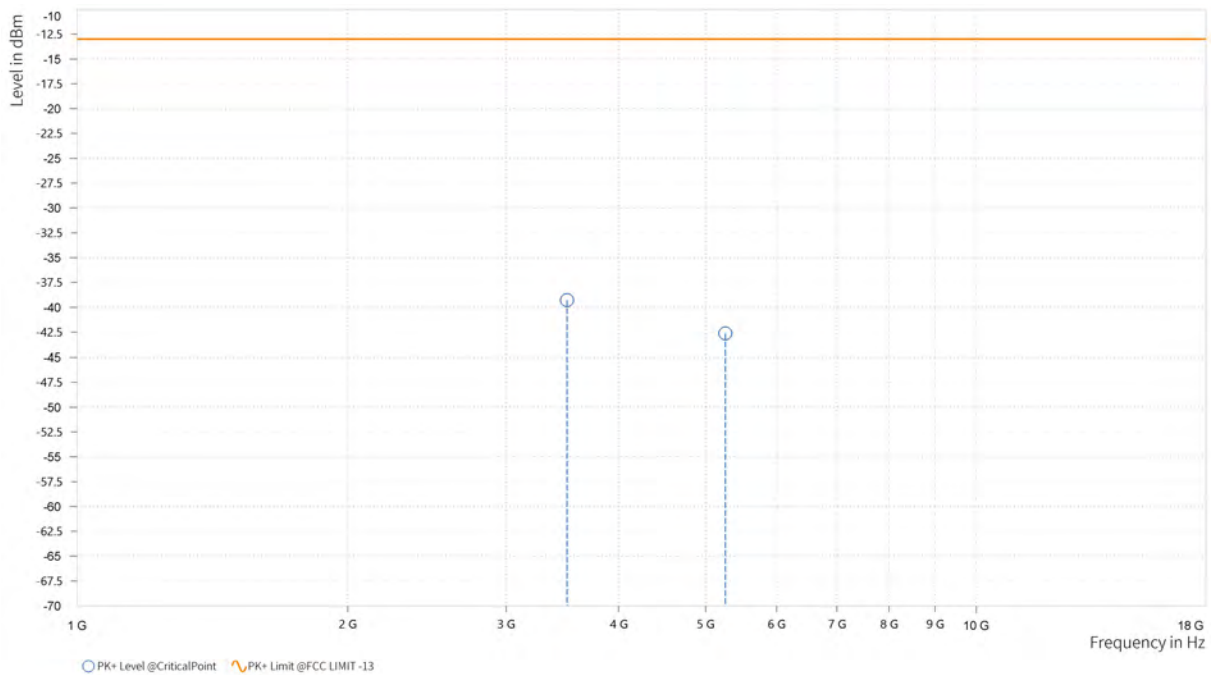




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,505.500	-39.28	-13.00	26.28	25.79	V	1	1
4	5,258.500	-42.64	-13.00	29.64	27.67	V	359	2





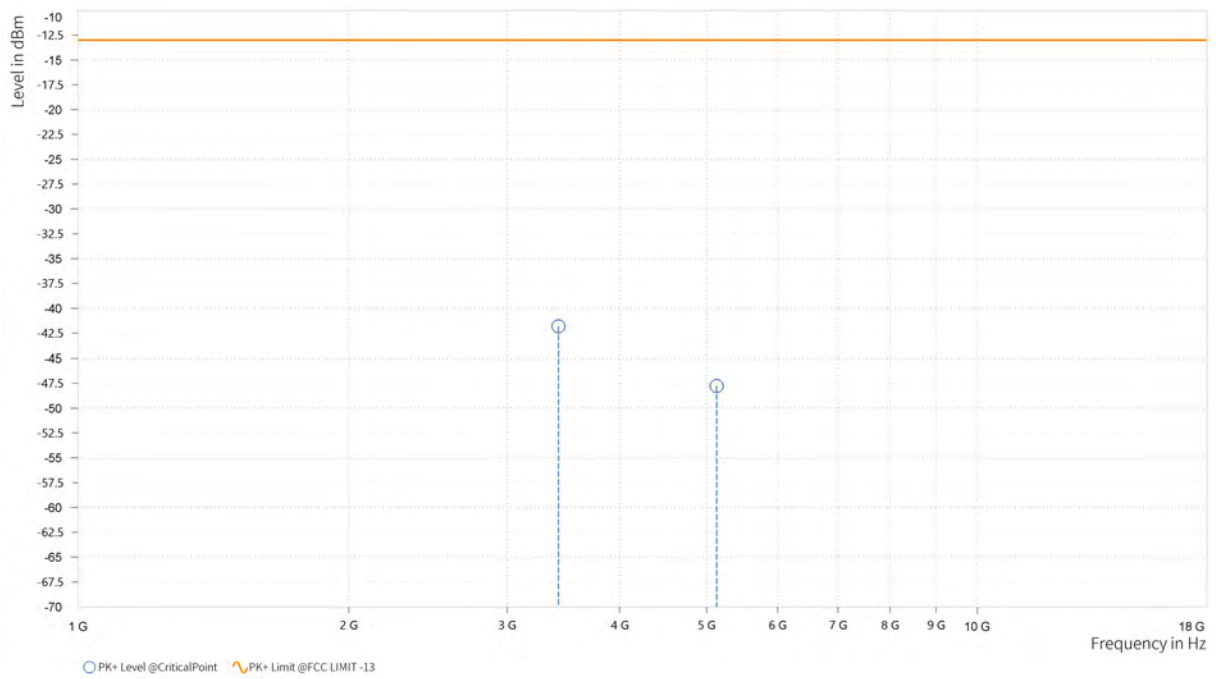
Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 10MHz / QPSK

CH132022

MODE	TX channel 132022	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,421.000	-41.82	-13.00	28.82	24.52	H	1	1
4	5,131.000	-47.76	-13.00	34.76	26.77	H	359	2

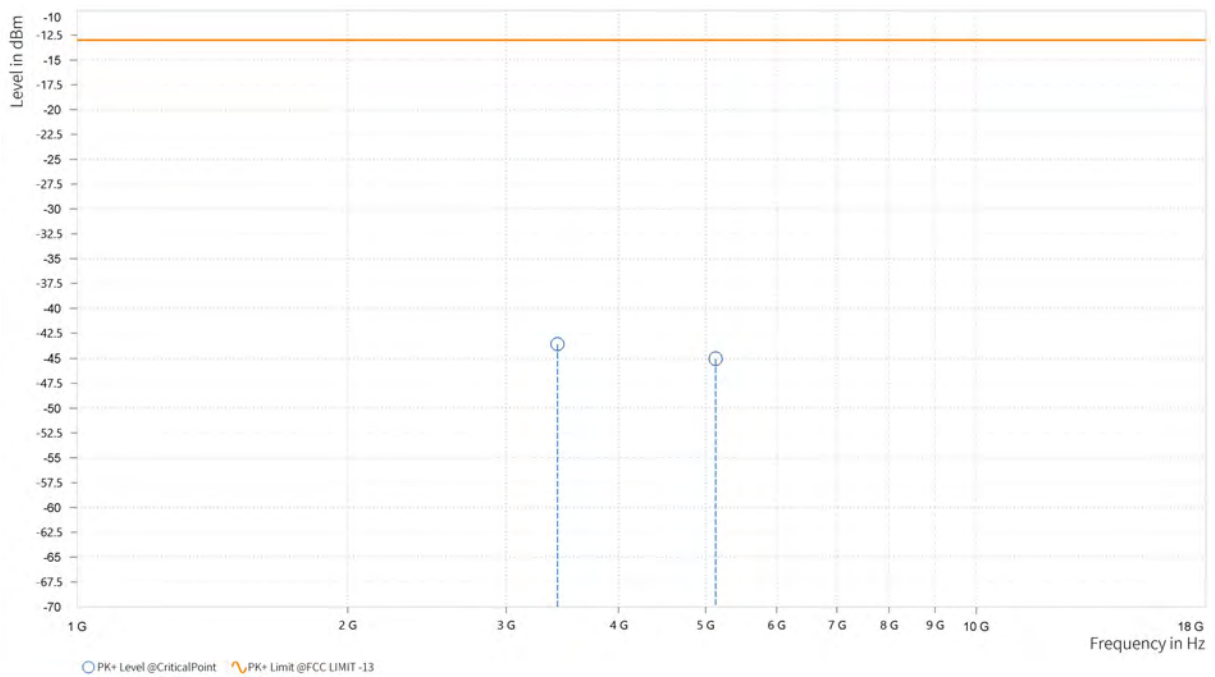




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132022	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,421.000	-43.62	-13.00	30.62	25.04	V	359.1	1
4	5,131.500	-45.06	-13.00	32.06	27.00	V	359	2





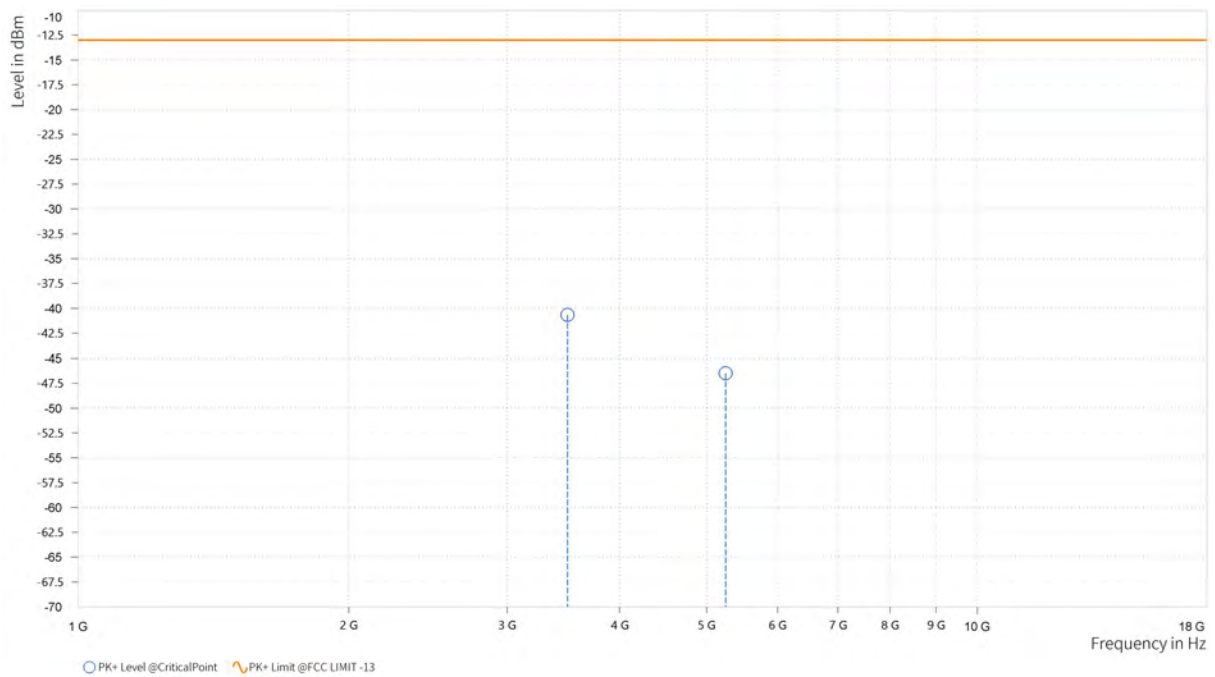
**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

CH132322

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,501.000	-40.68	-13.00	27.68	25.01	H	1	2
4	5,250.500	-46.48	-13.00	33.48	27.40	H	1	2

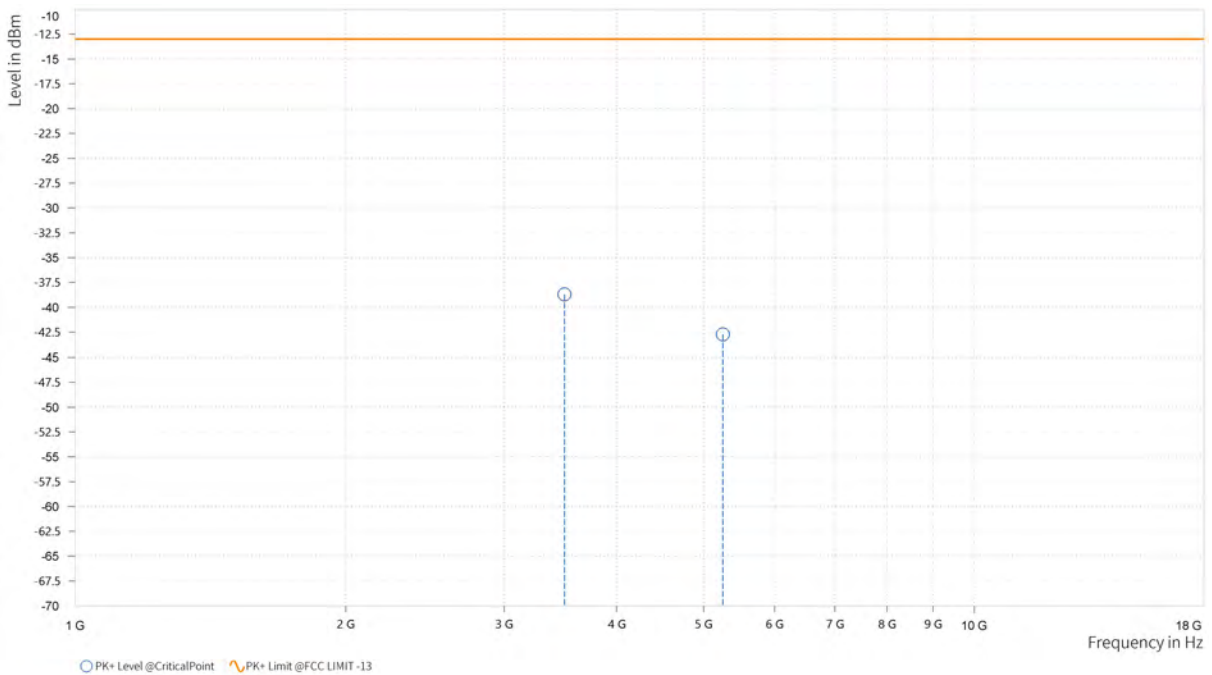




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,501.000	-38.70	-13.00	25.70	25.68	V	359	1
4	5,252.000	-42.73	-13.00	29.73	27.65	V	1	2





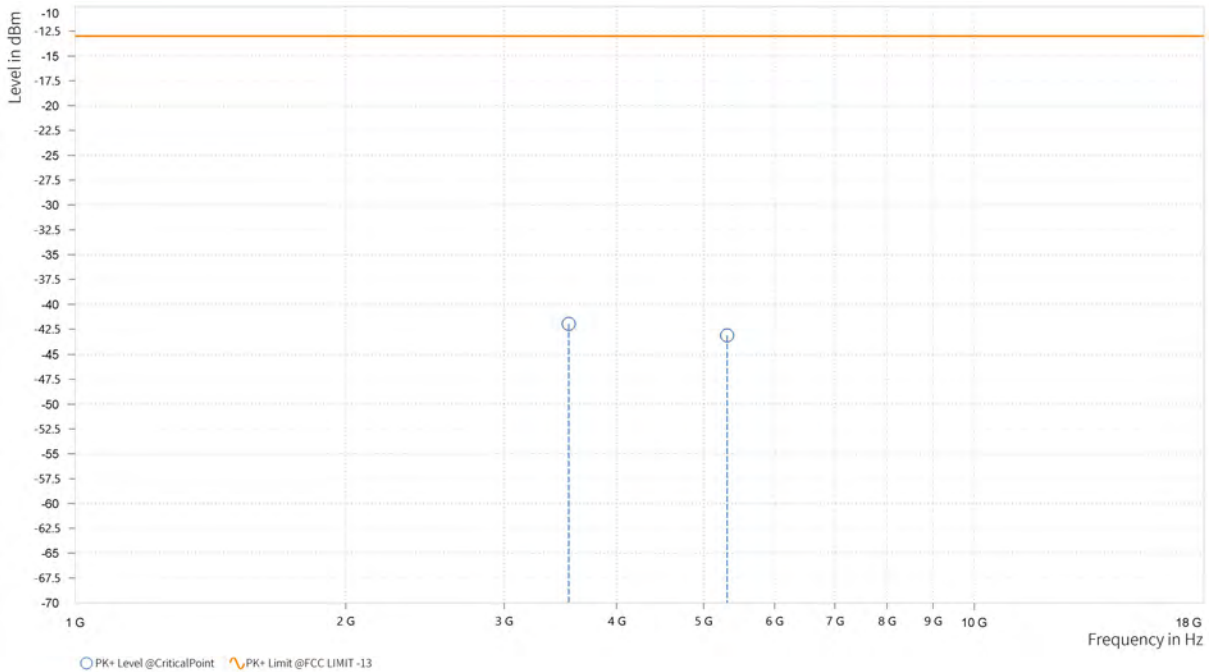
**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

CH132622

MODE	TX channel 132622	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,541.000	-41.97	-13.00	28.97	25.35	H	1	1
4	5,311.500	-43.14	-13.00	30.14	27.00	H	1	2

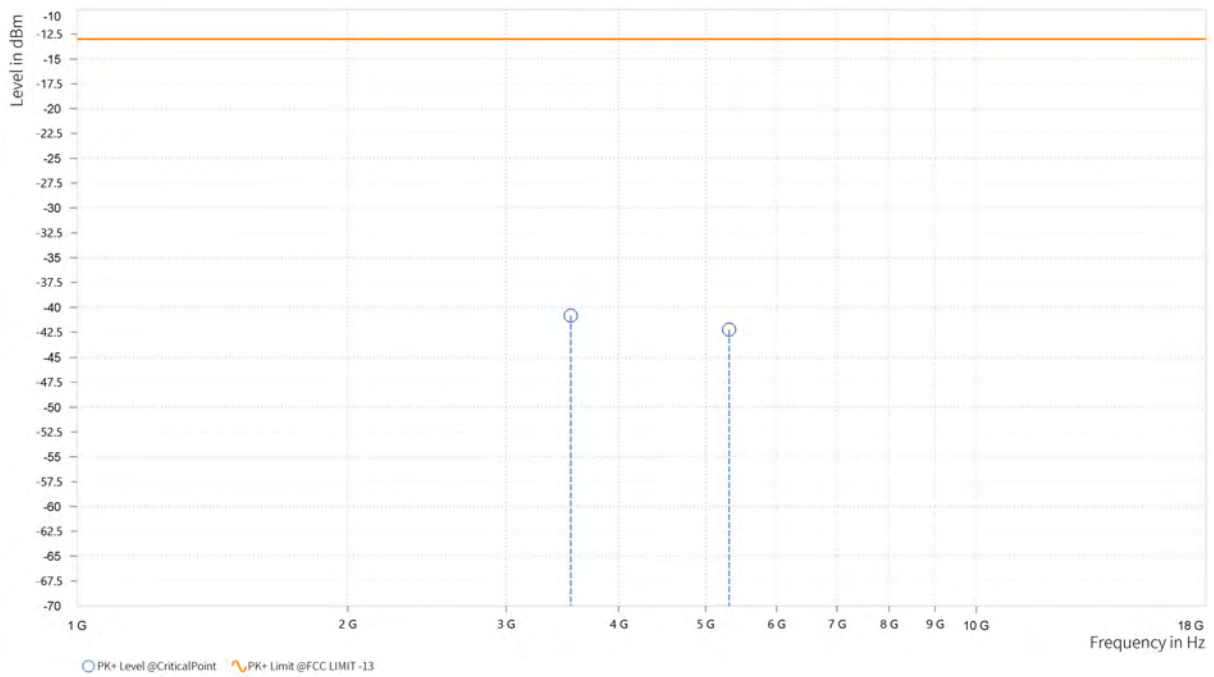




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132622	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,541.000	-40.85	-13.00	27.85	26.10	V	1	1
4	5,312.000	-42.25	-13.00	29.25	27.14	V	359	2



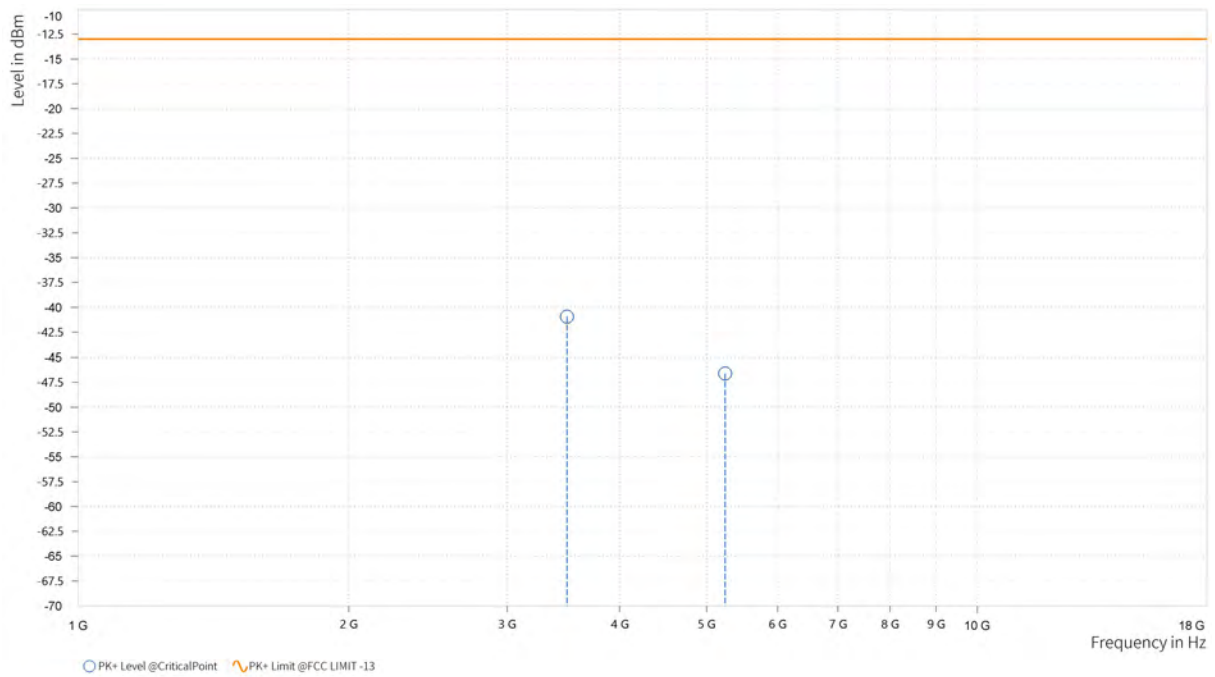


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,497.000	-40.93	-13.00	27.93	24.88	H	1	2
4	5,243.500	-46.62	-13.00	33.62	27.38	H	359	2

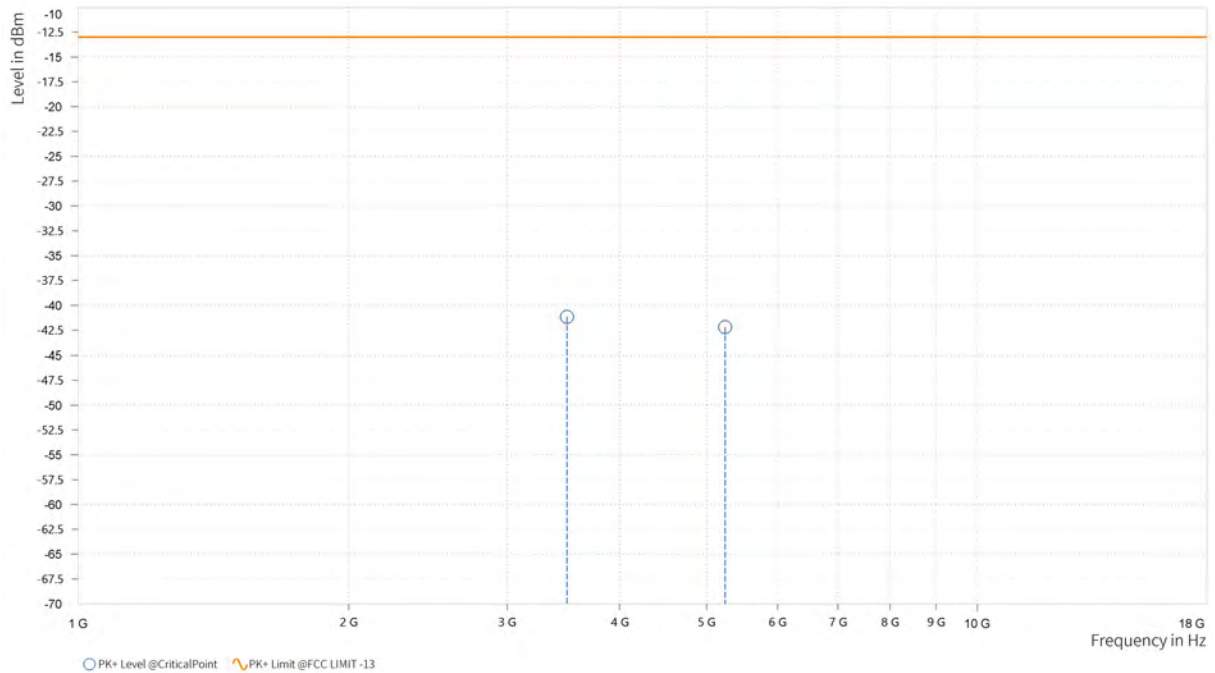




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,496.500	-41.18	-13.00	28.18	25.53	V	1	1
4	5,244.500	-42.19	-13.00	29.19	27.66	V	1	2



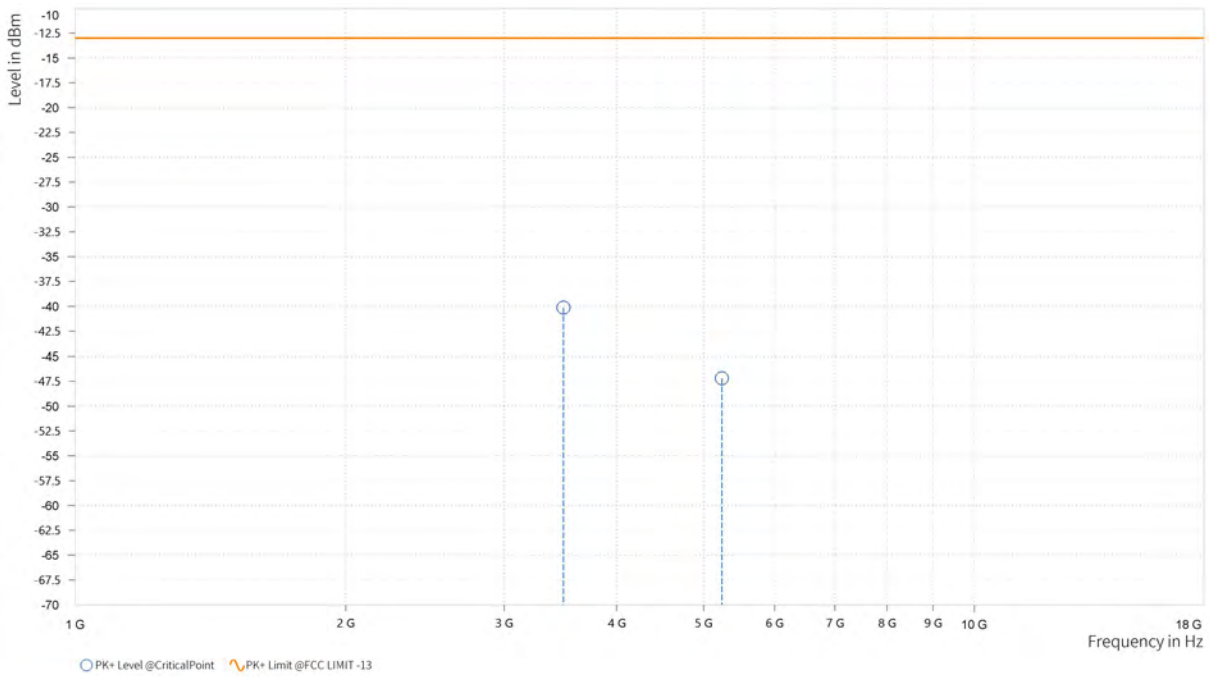


Test Report No.: PSZ-NQN2303280110RF08

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,492.000	-40.14	-13.00	27.14	24.70	H	359	2
4	5,238.500	-47.18	-13.00	34.18	27.36	H	160.9	2

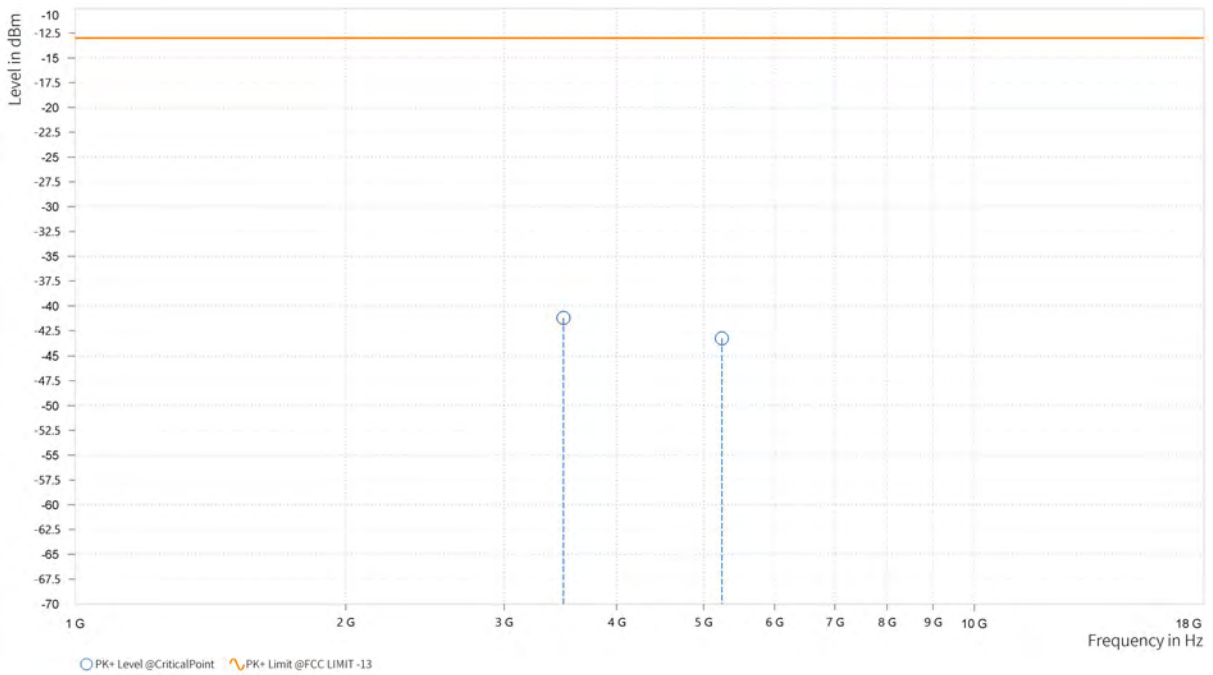




Test Report No.: PSZ-NQN2303280110RF08

MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Chao Wu		
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	3,492.000	-41.21	-13.00	28.21	25.35	V	1	1
4	5,238.500	-43.28	-13.00	30.28	27.67	V	1	2

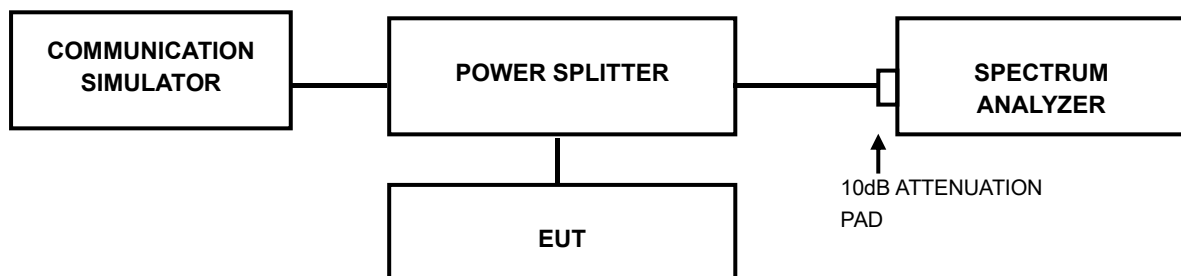


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

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

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

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



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 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.

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

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



Test Report No.: PSZ-NQN2303280110RF08

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

LTE BAND41

PEAK-TO-AVERAGE RATIO(CCDF)

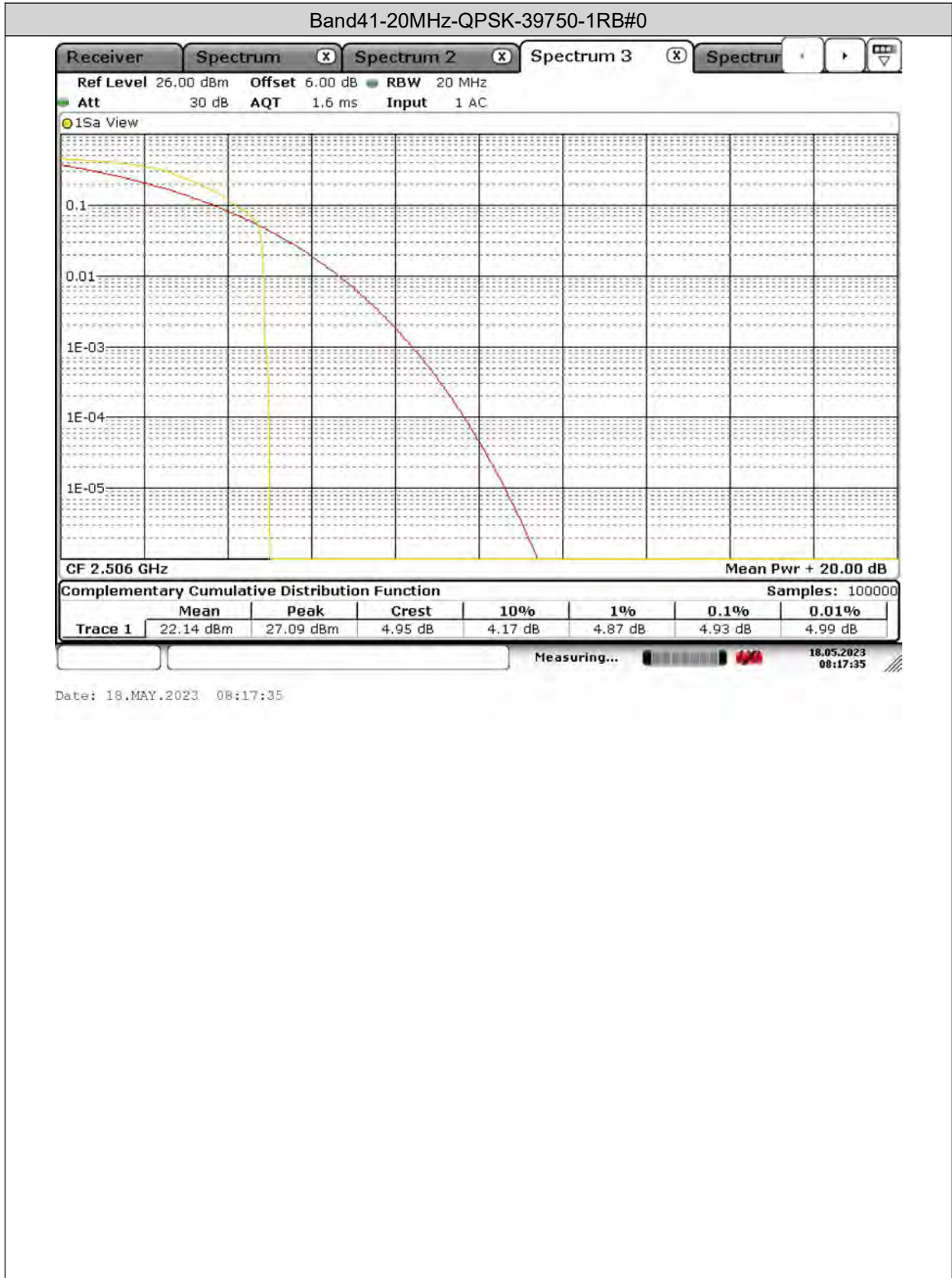
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	1RB#0	4.93	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.42	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	3.91	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.59	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	4.09	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.42	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	3.59	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.23	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	4.29	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.74	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	3.59	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	5.36	13	PASS
Band41	20MHz	64QPSK	39750	1RB#0	6.14	13	PASS
Band41	20MHz	64QPSK	39750	100RB#0	6.12	13	PASS
Band41	20MHz	64QPSK	40620	1RB#0	5.62	13	PASS
Band41	20MHz	64QPSK	40620	100RB#0	6.78	13	PASS
Band41	20MHz	64QPSK	41490	1RB#0	5.45	13	PASS
Band41	20MHz	64QPSK	41490	100RB#0	6.09	13	PASS



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Test Graphs

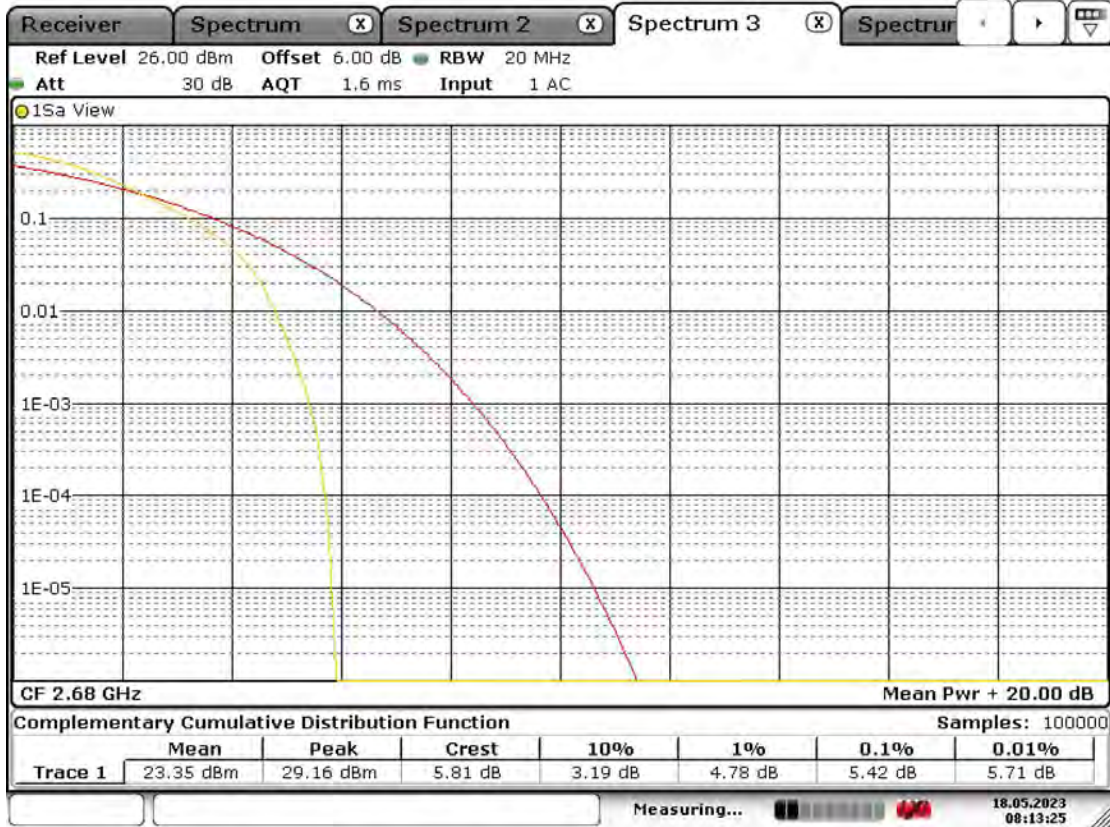




BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-QPSK-39750-100RB#0



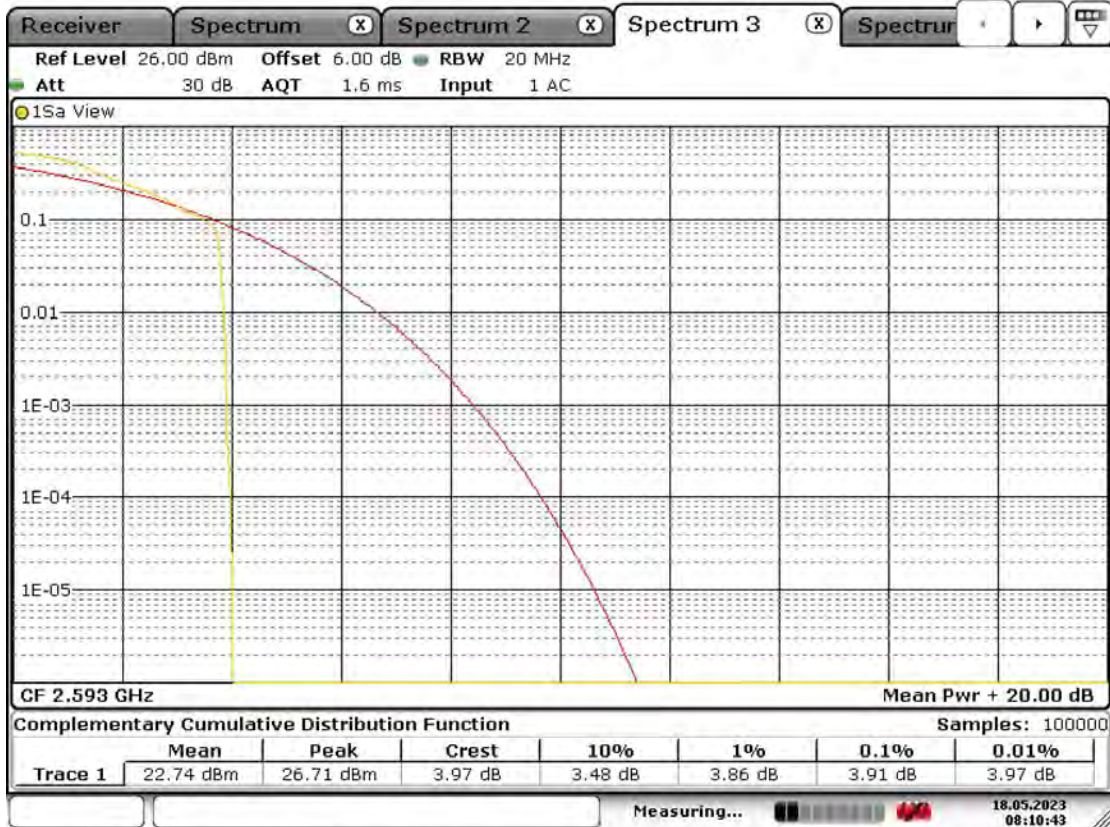
Date: 18.MAY.2023 08:13:25



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-QPSK-40620-1RB#0



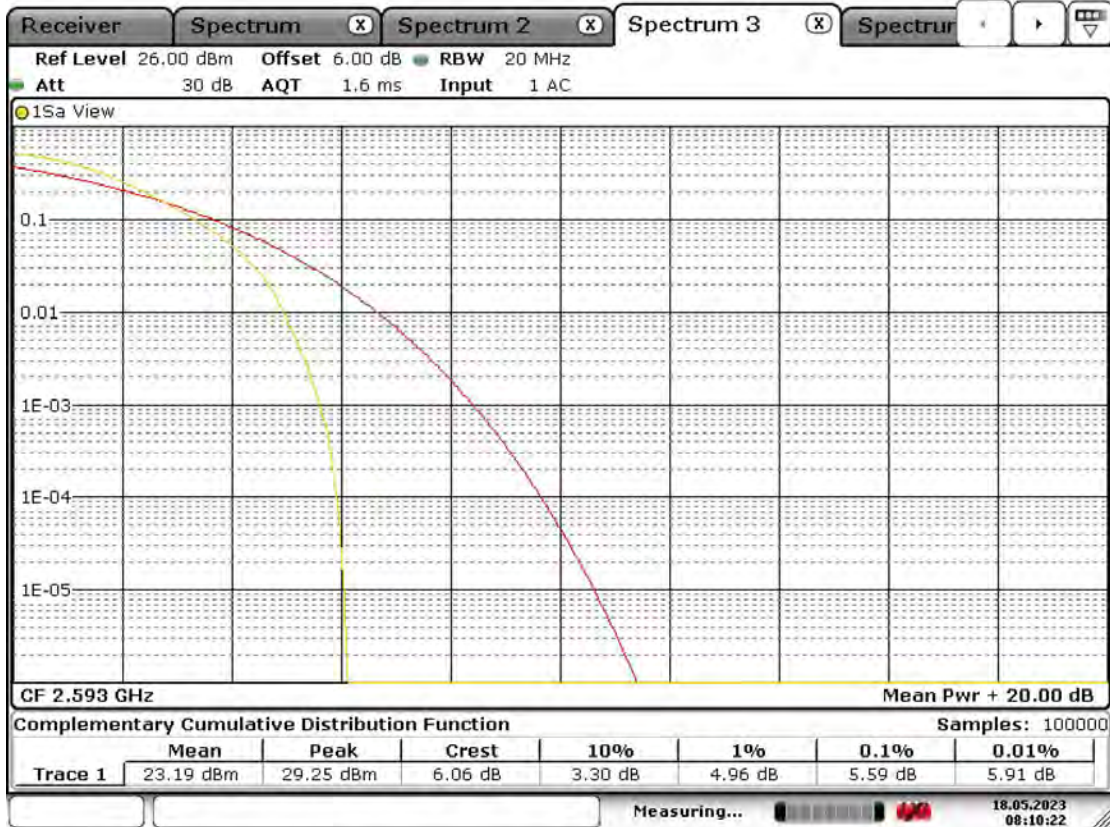
Date: 18.MAY.2023 08:10:44



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-QPSK-40620-100RB#0



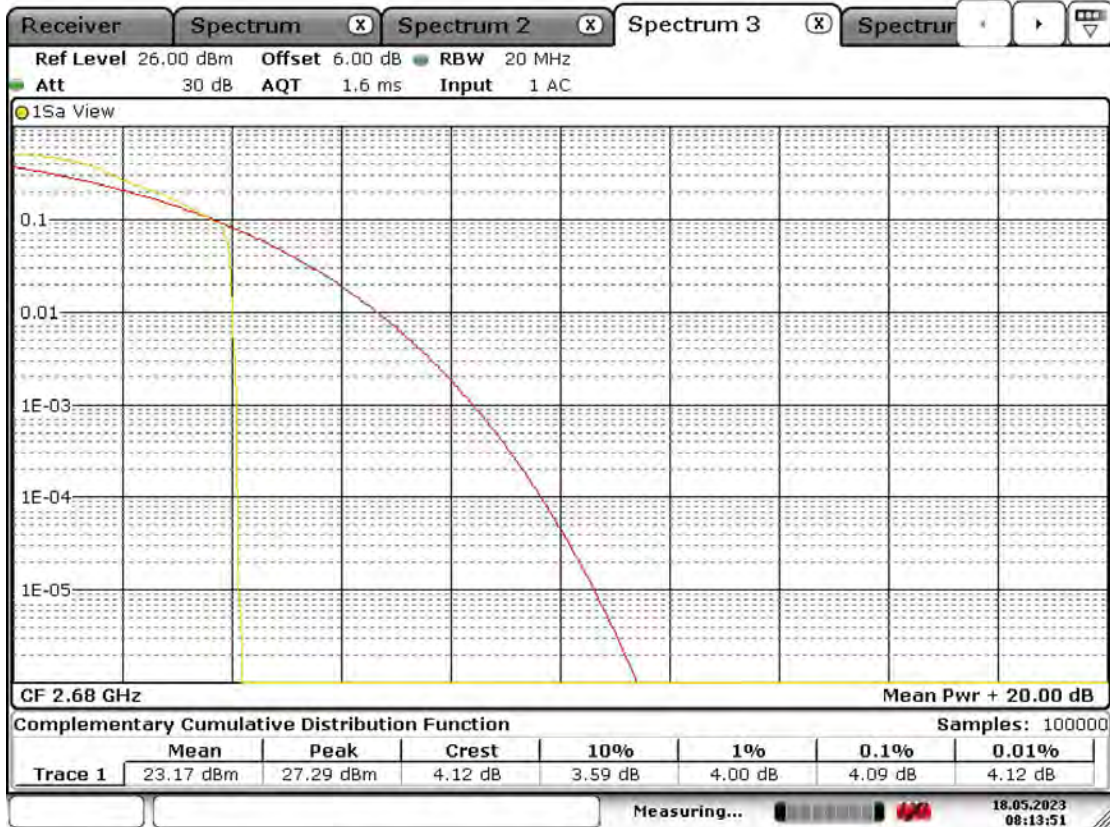
Date: 18.MAY.2023 08:10:22



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-QPSK-41490-1RB#0



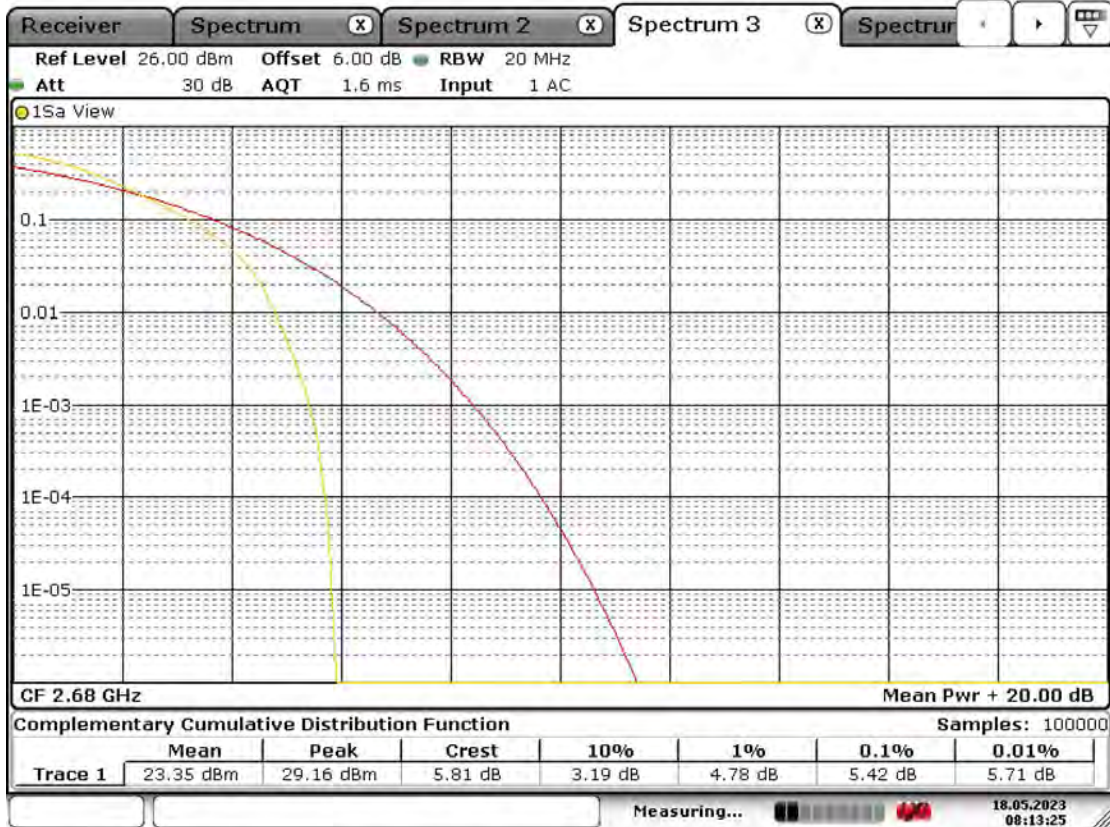
Date: 18.MAY.2023 08:13:51



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-QPSK-41490-100RB#0



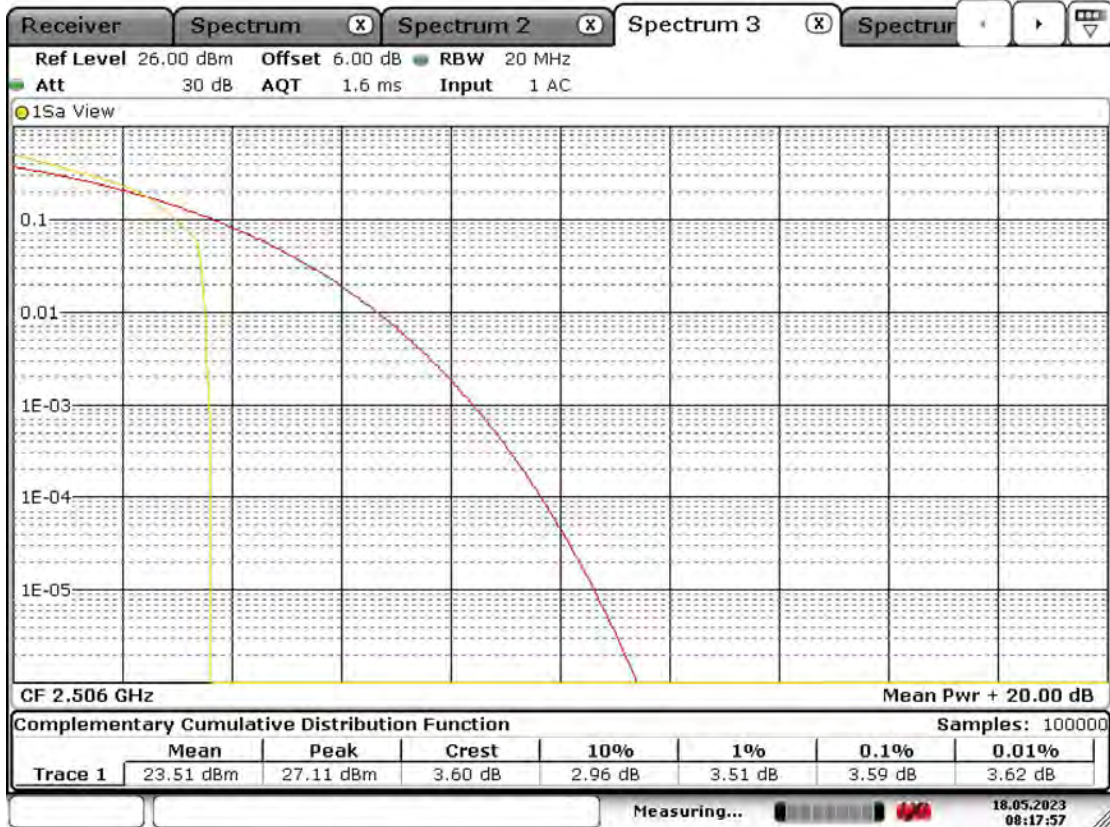
Date: 18.MAY.2023 08:13:25



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-16QAM-39750-1RB#0



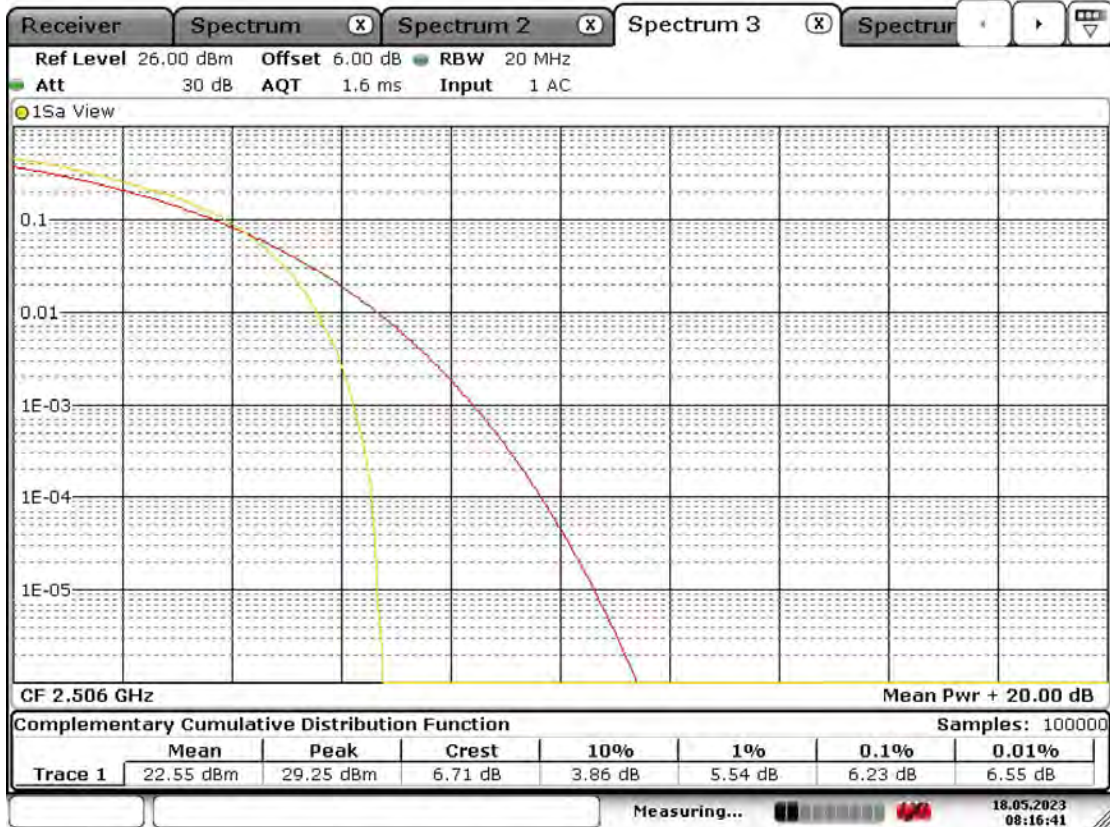
Date: 18.MAY.2023 08:17:57



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-16QAM-39750-100RB#0



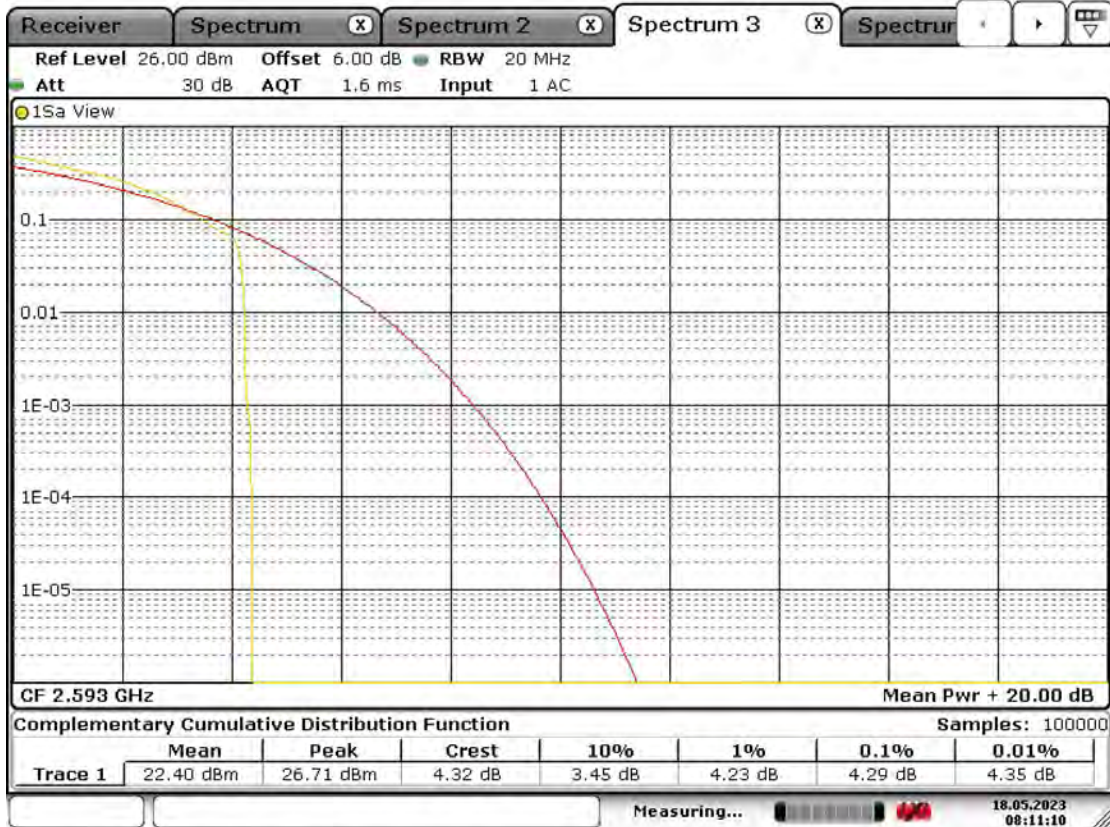
Date: 18.MAY.2023 08:16:41



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

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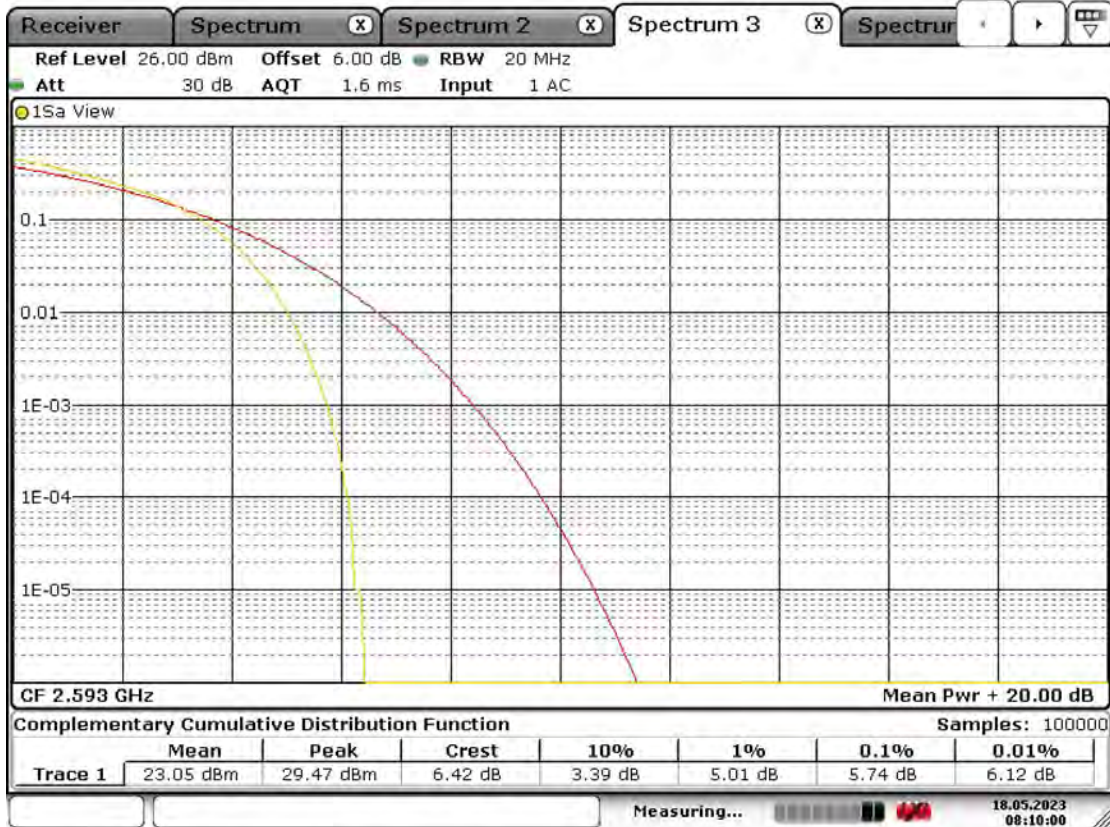
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BUREAU VERITAS

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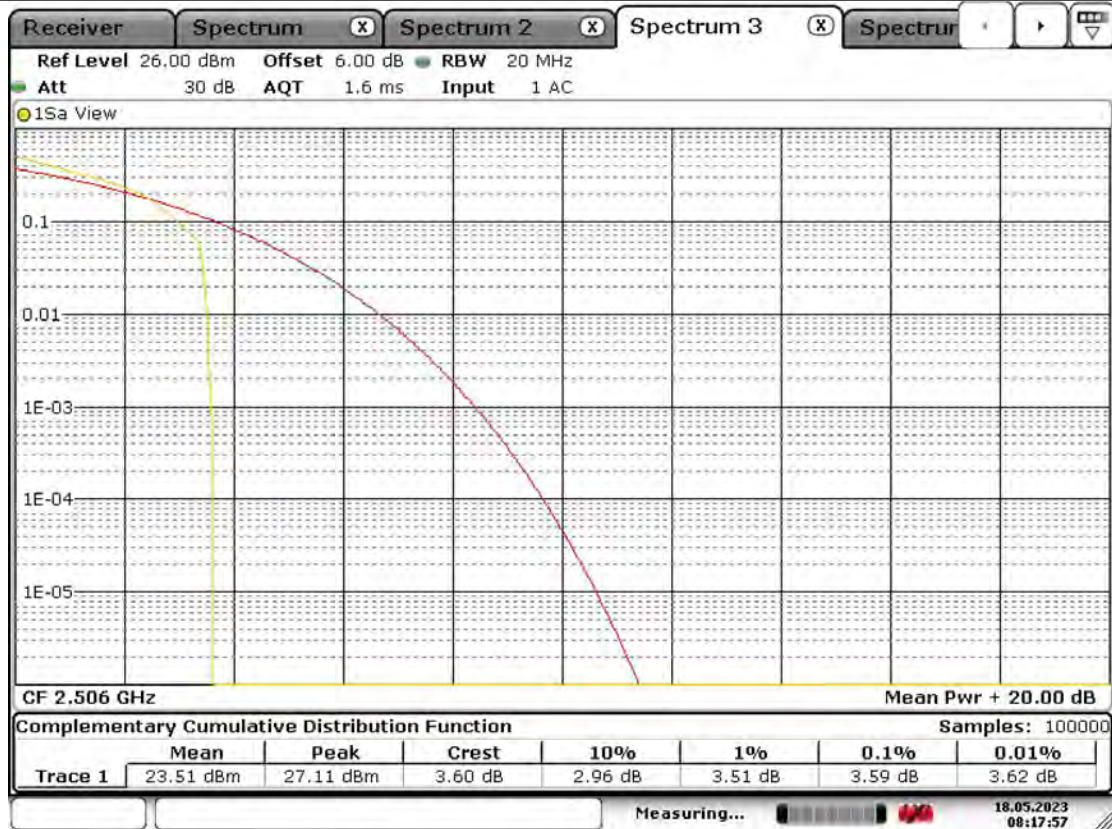
Date: 18.MAY.2023 08:10:00



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-16QAM-41490-1RB#0



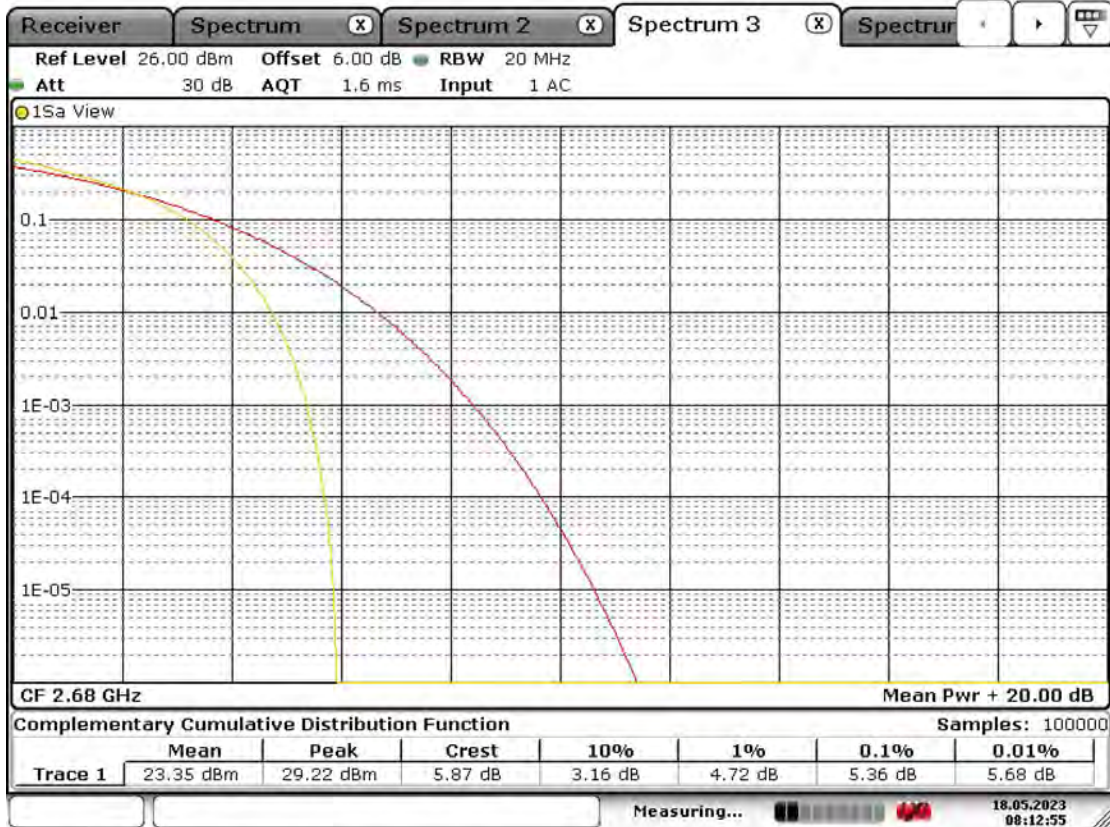
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BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-16QAM-41490-100RB#0

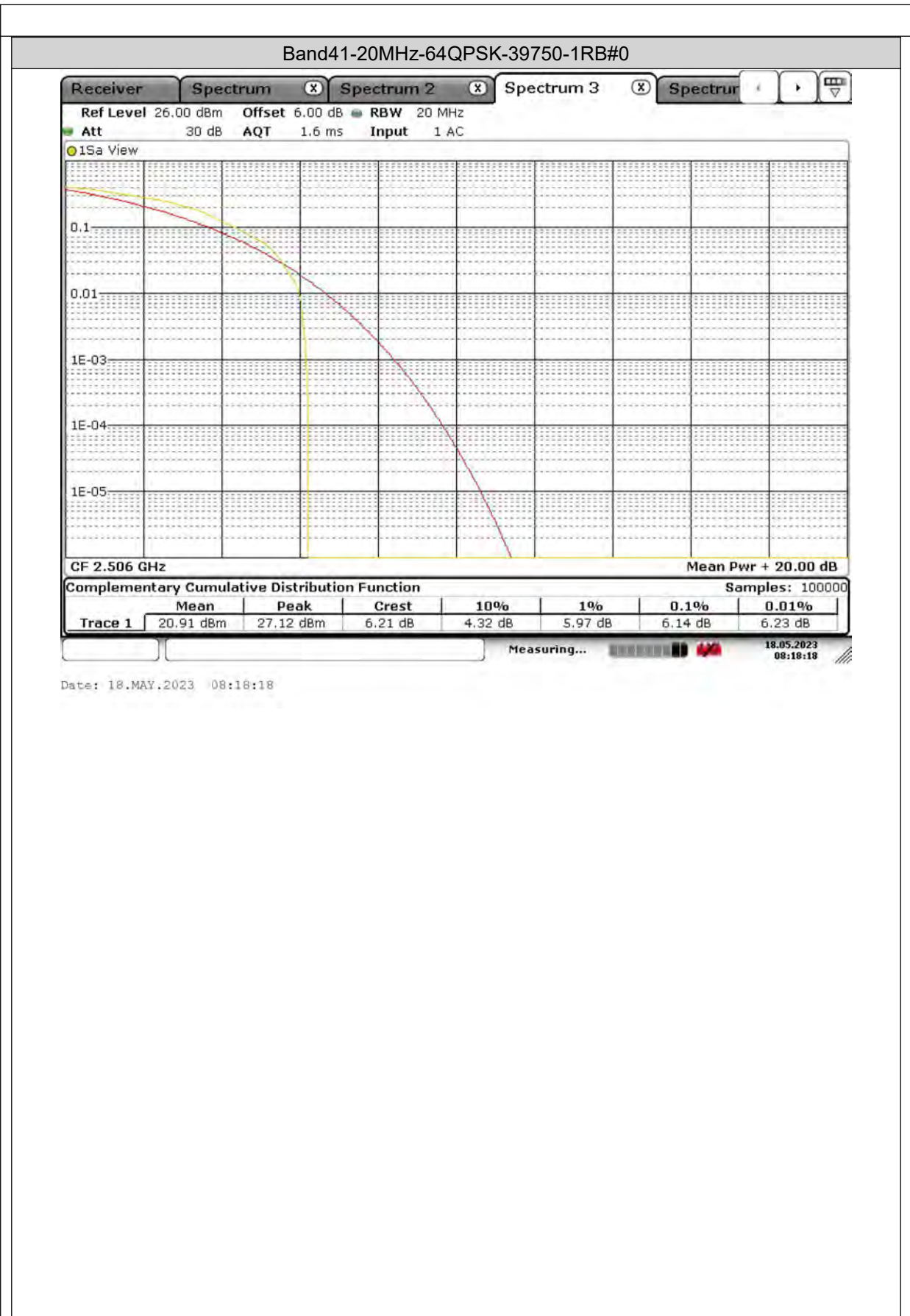


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BUREAU VERITAS

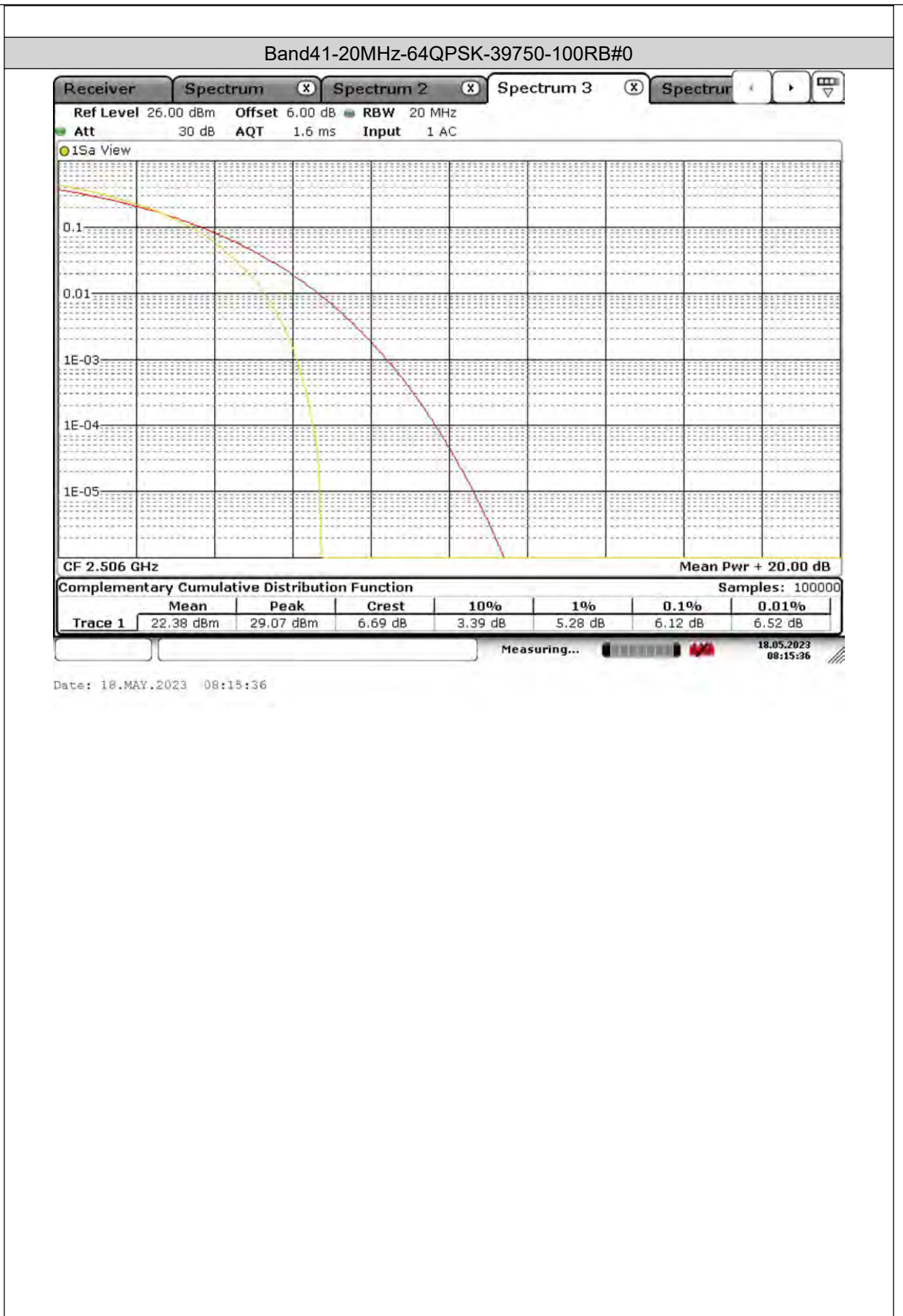
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BUREAU VERITAS

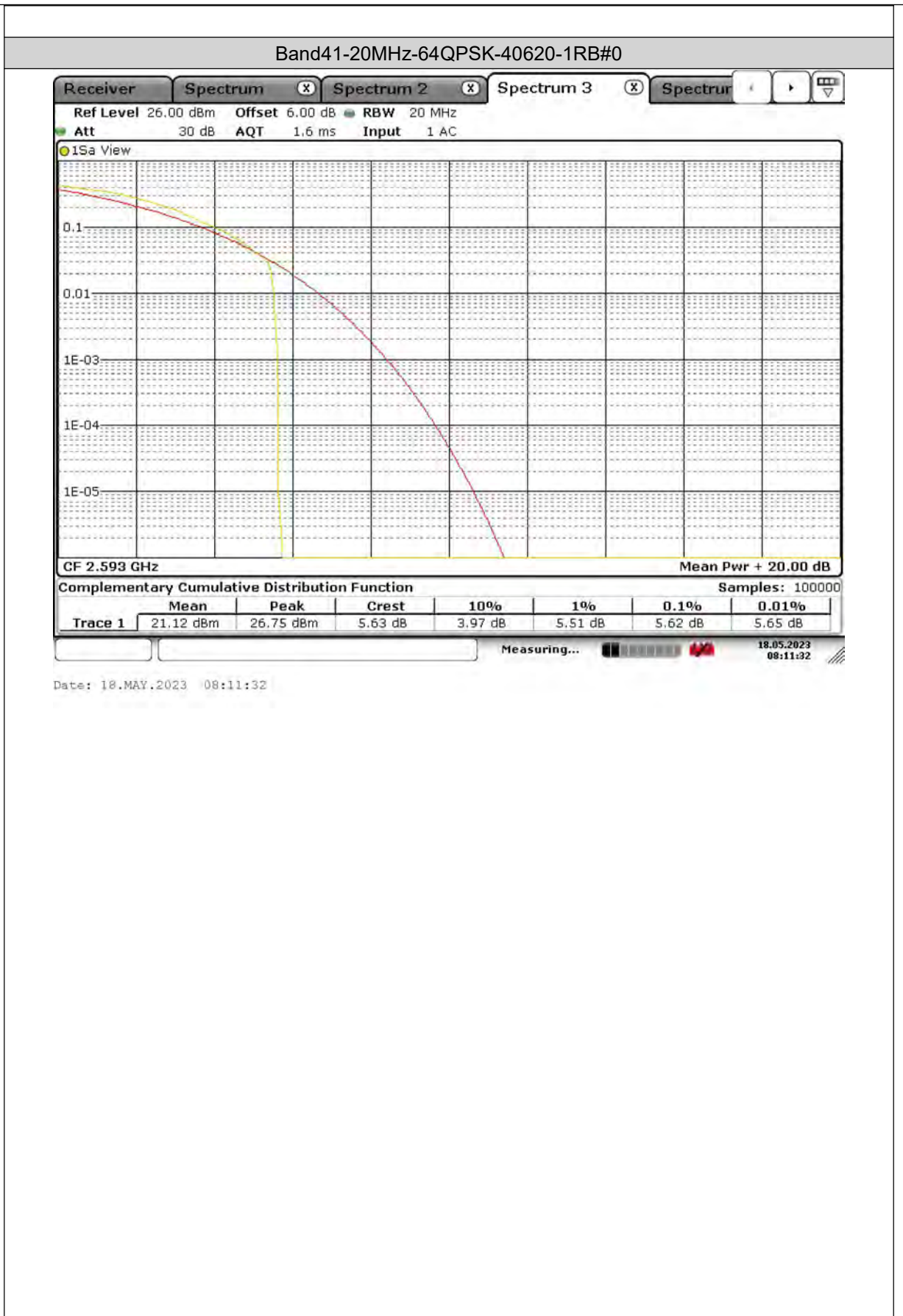
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

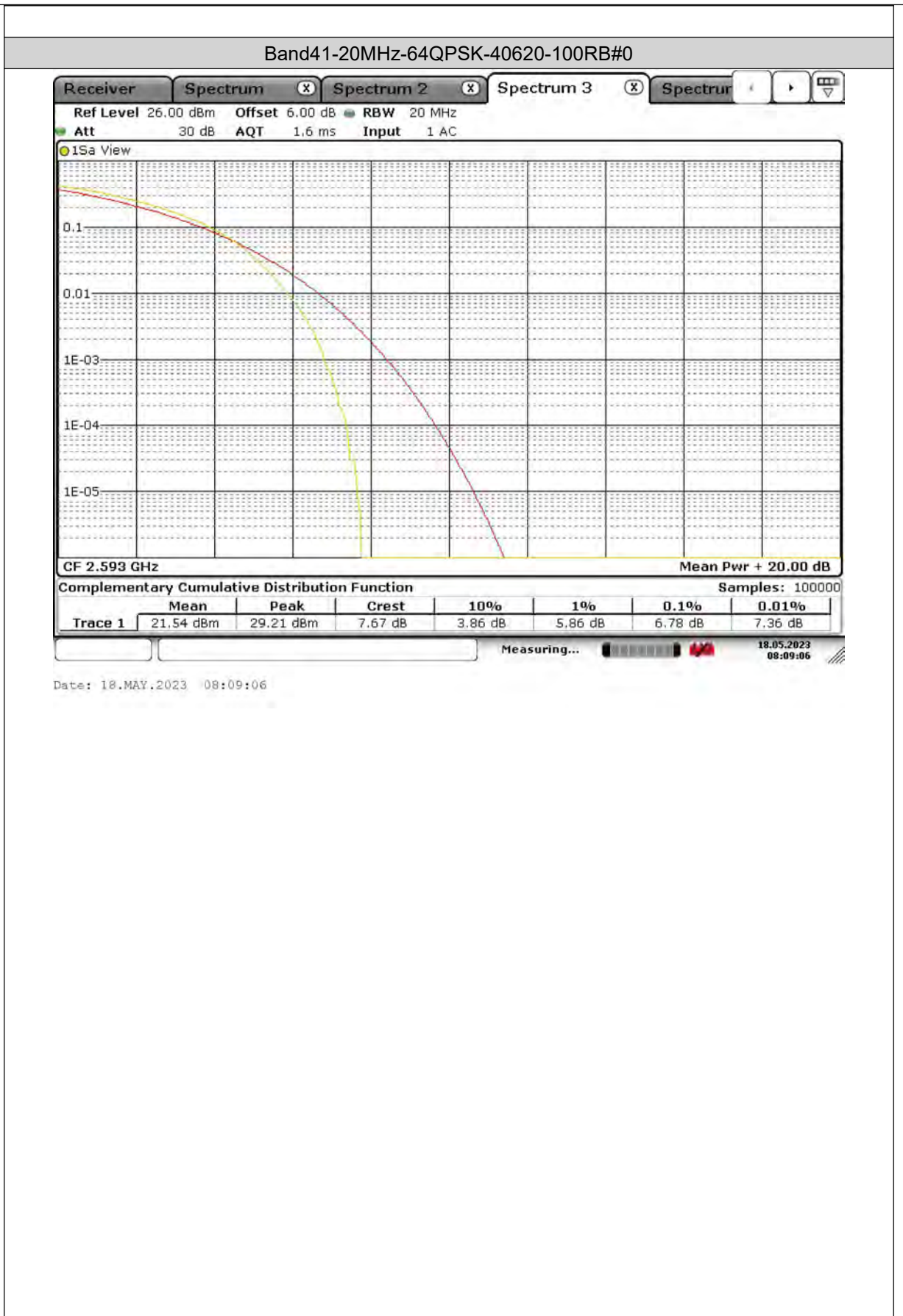
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BUREAU VERITAS

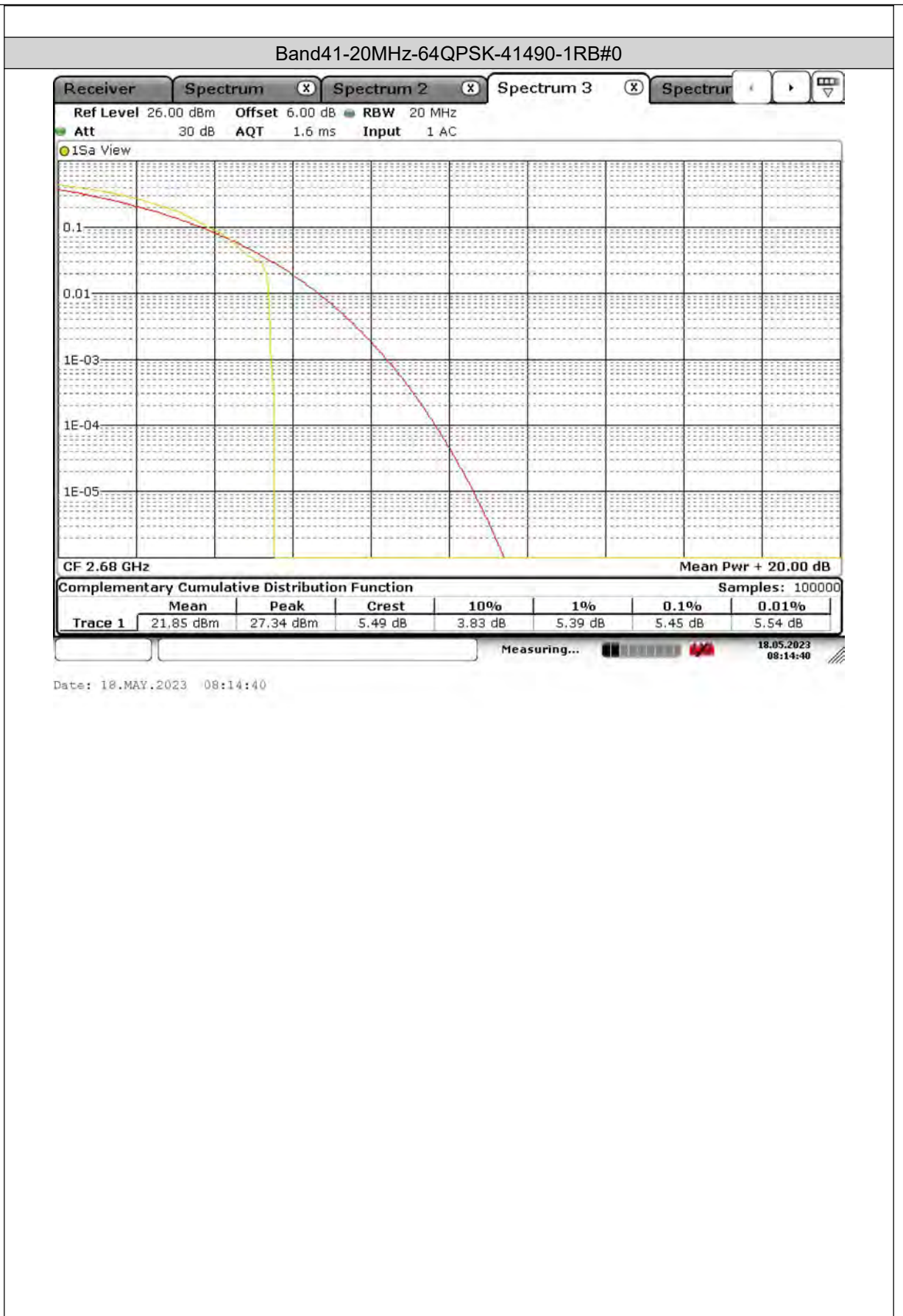
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

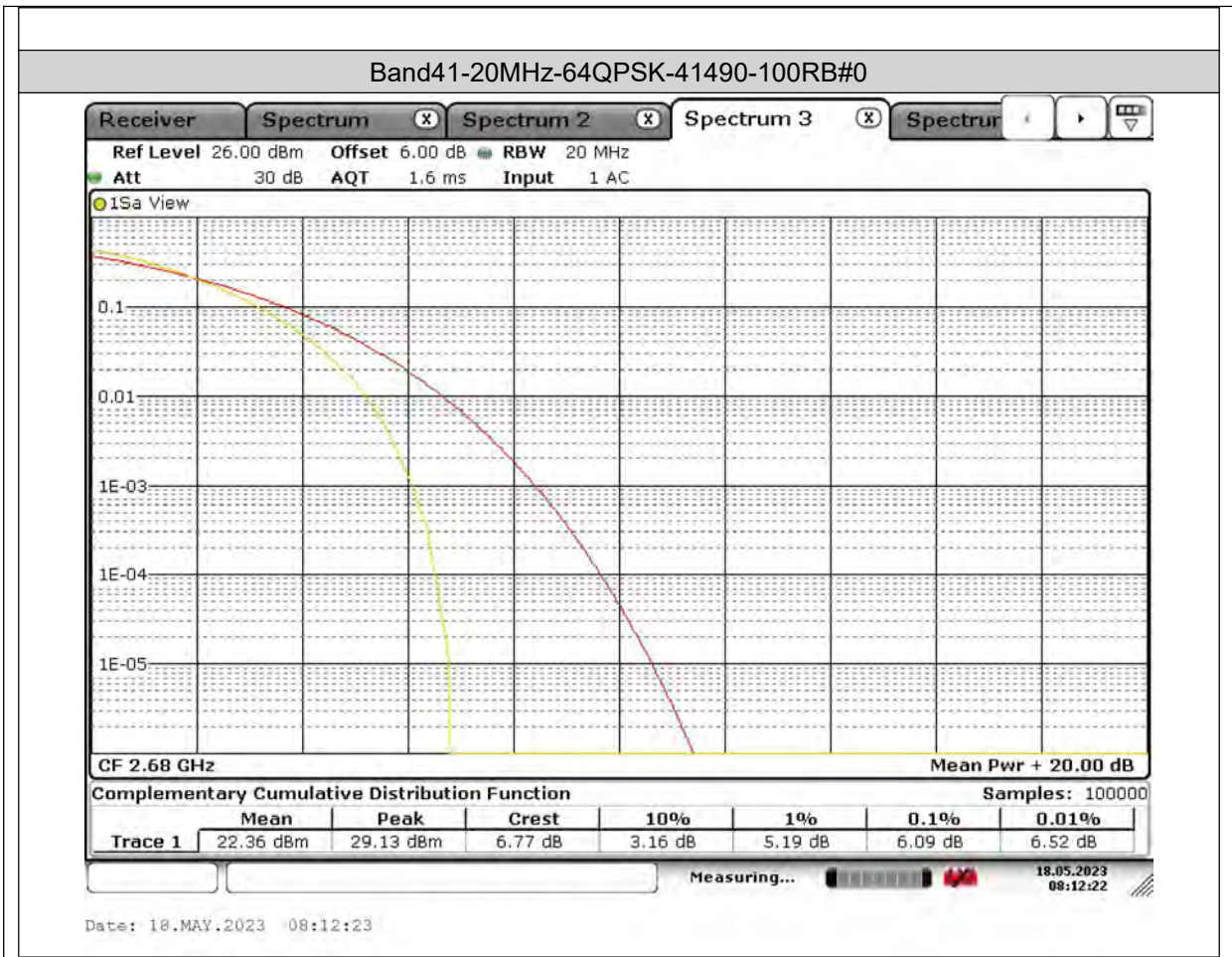
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

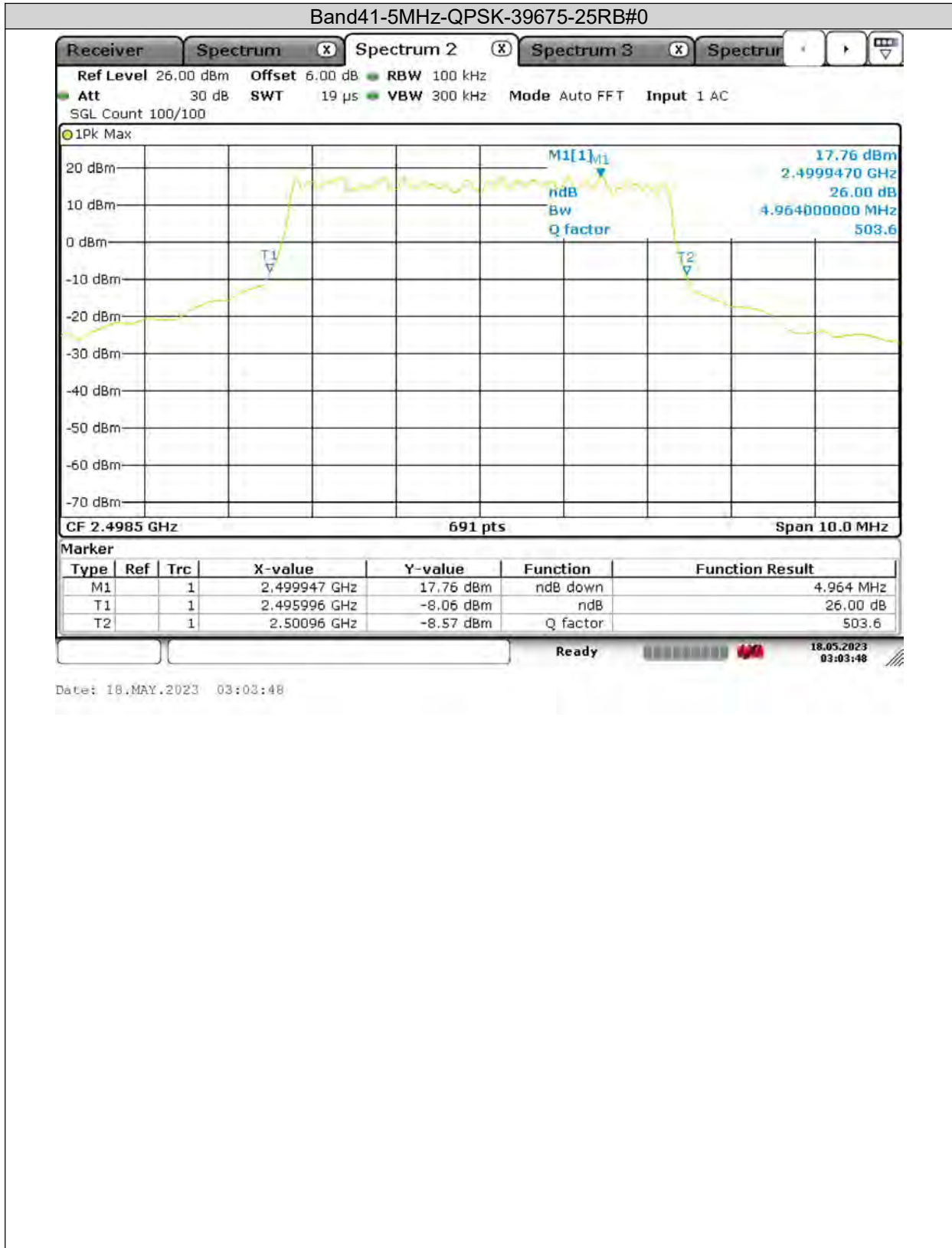
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5296	4.9640	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4862	4.9200	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4717	5.0360	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4717	4.9640	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5007	4.8190	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4717	4.7900	PASS
Band41	5MHz	64QPSK	39675	25RB#0	4.5007	4.8630	PASS
Band41	5MHz	64QPSK	40620	25RB#0	4.4717	4.7900	PASS
Band41	5MHz	64QPSK	41565	25RB#0	4.5151	4.9200	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.0593	9.8120	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0303	9.6670	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0014	9.6670	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.0593	9.6670	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9435	9.6380	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9435	9.8120	PASS
Band41	10MHz	64QPSK	39700	50RB#0	9.0303	9.6960	PASS
Band41	10MHz	64QPSK	40620	50RB#0	8.9435	9.8700	PASS
Band41	10MHz	64QPSK	41540	50RB#0	9.0303	9.7540	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.5455	14.1970	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.5890	14.3270	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.5021	14.4570	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.5021	14.2400	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.5021	14.1970	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.4153	14.5880	PASS
Band41	15MHz	64QPSK	39725	75RB#0	13.4153	14.4140	PASS
Band41	15MHz	64QPSK	40620	75RB#0	13.4587	14.3700	PASS
Band41	15MHz	64QPSK	41515	75RB#0	13.4587	14.5010	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.3502	20.1450	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.3502	20.3180	PASS
Band41	20MHz	QPSK	41490	100RB#0	18.2923	20.2600	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.2923	20.1450	PASS
Band41	20MHz	16QAM	40620	100RB#0	18.2344	20.1450	PASS
Band41	20MHz	16QAM	41490	100RB#0	18.1186	20.2030	PASS
Band41	20MHz	64QPSK	39750	100RB#0	18.2344	20.0870	PASS
Band41	20MHz	64QPSK	40620	100RB#0	18.4081	20.1450	PASS
Band41	20MHz	64QPSK	41490	100RB#0	18.1765	20.2030	PASS



Test Report No.: PSZ-NQN2303280110RF08

Test Graphs

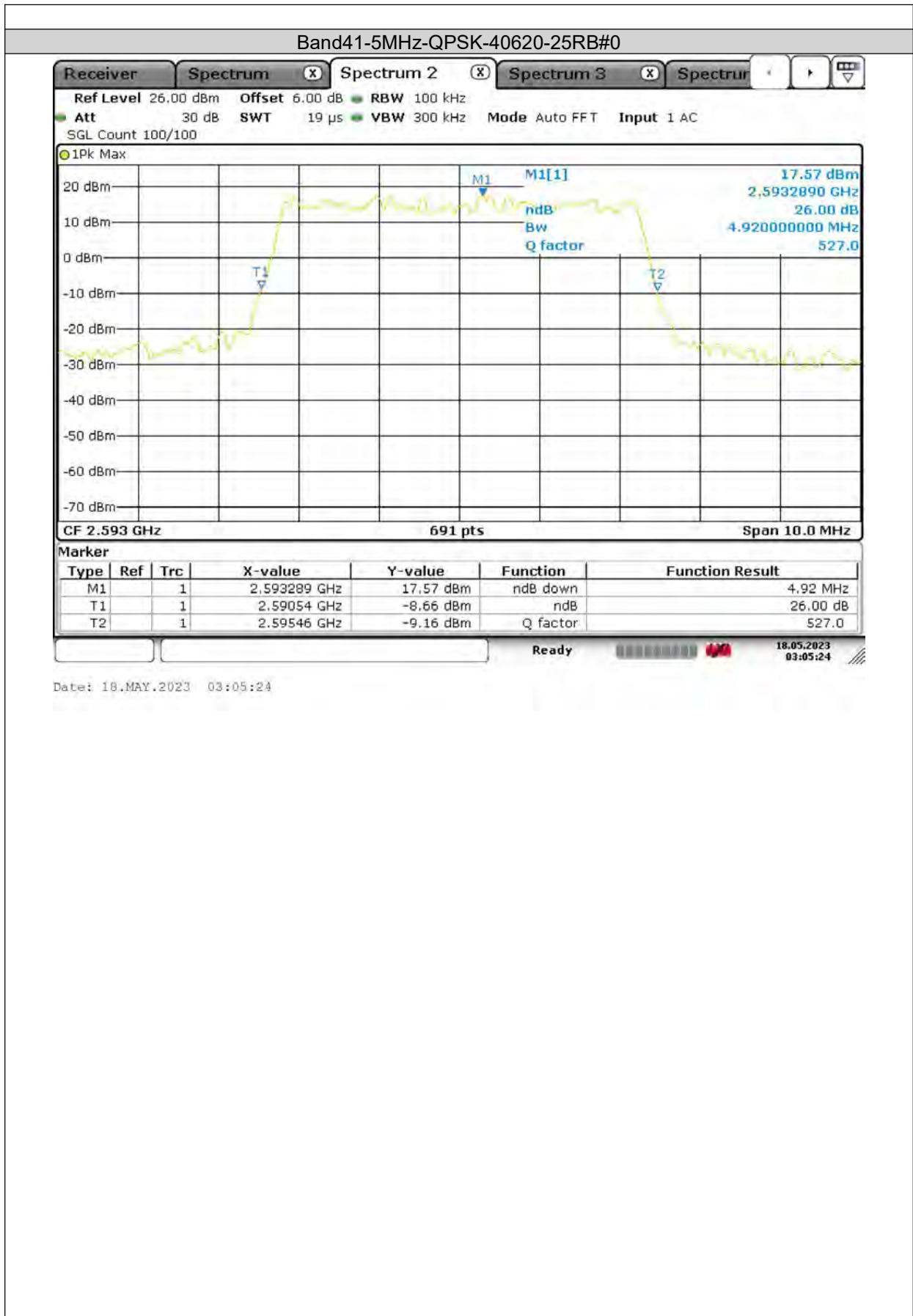
26dB Bandwidth





BUREAU
VERITAS

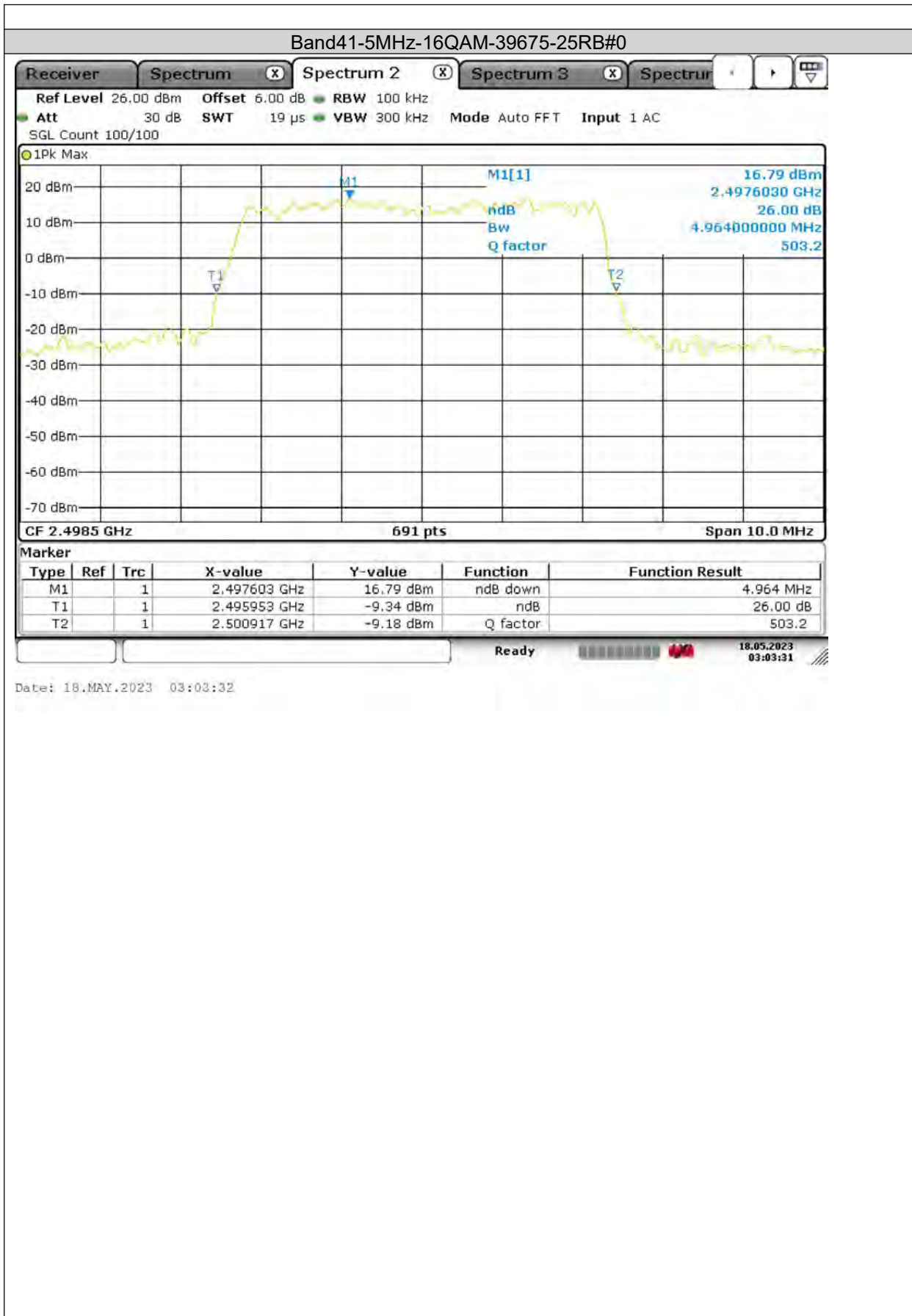
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

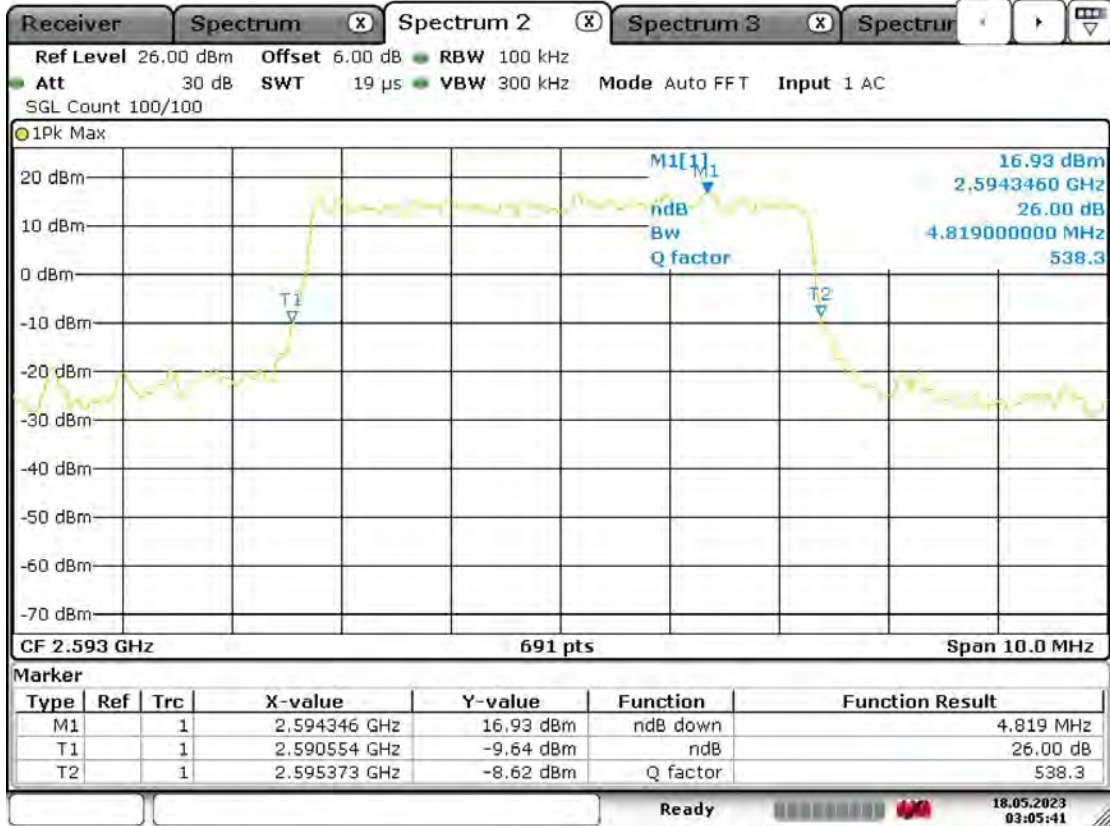




**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

Band41-5MHz-16QAM-40620-25RB#0

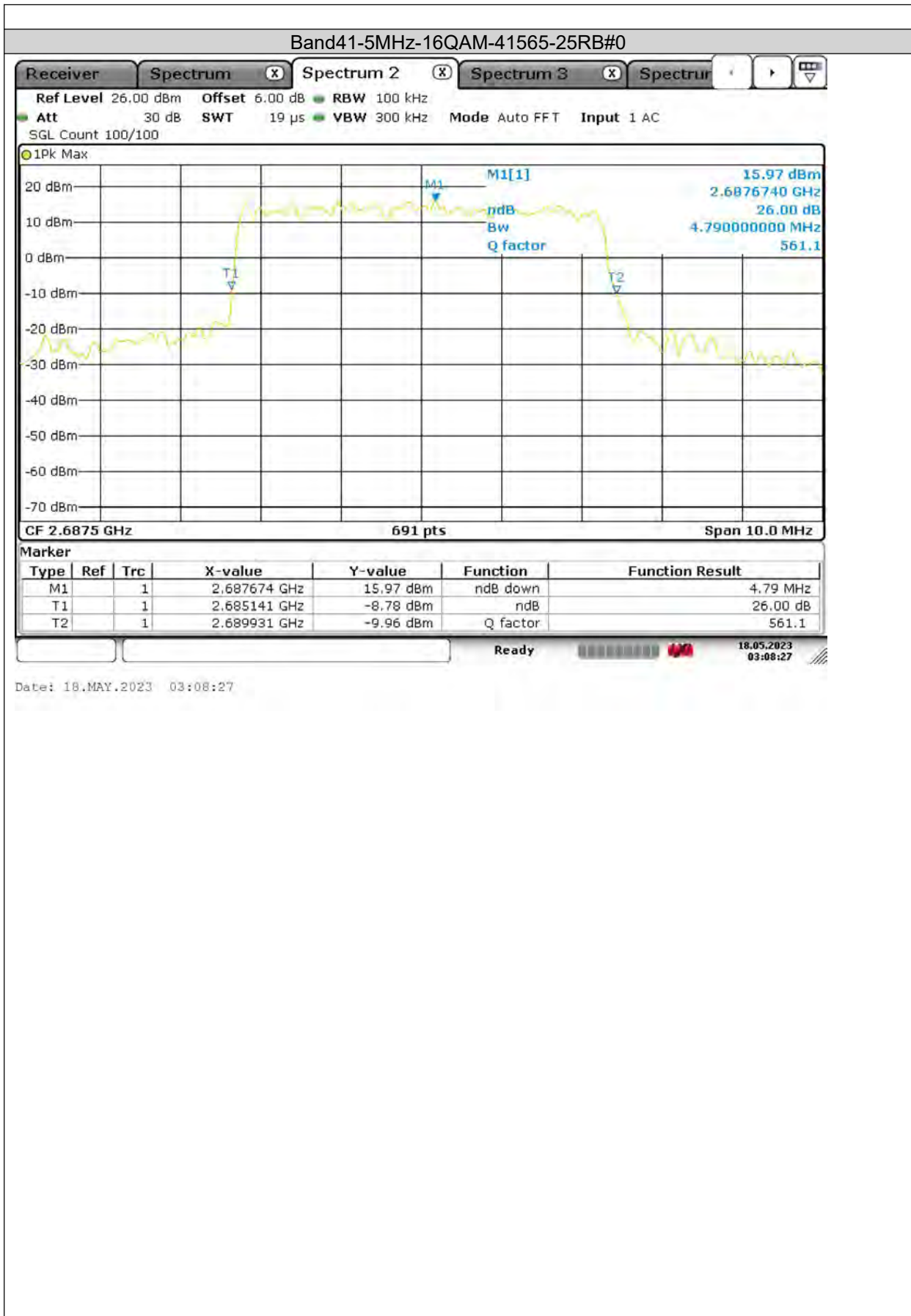


Date: 18.MAY.2023 03:05:41



BUREAU
VERITAS

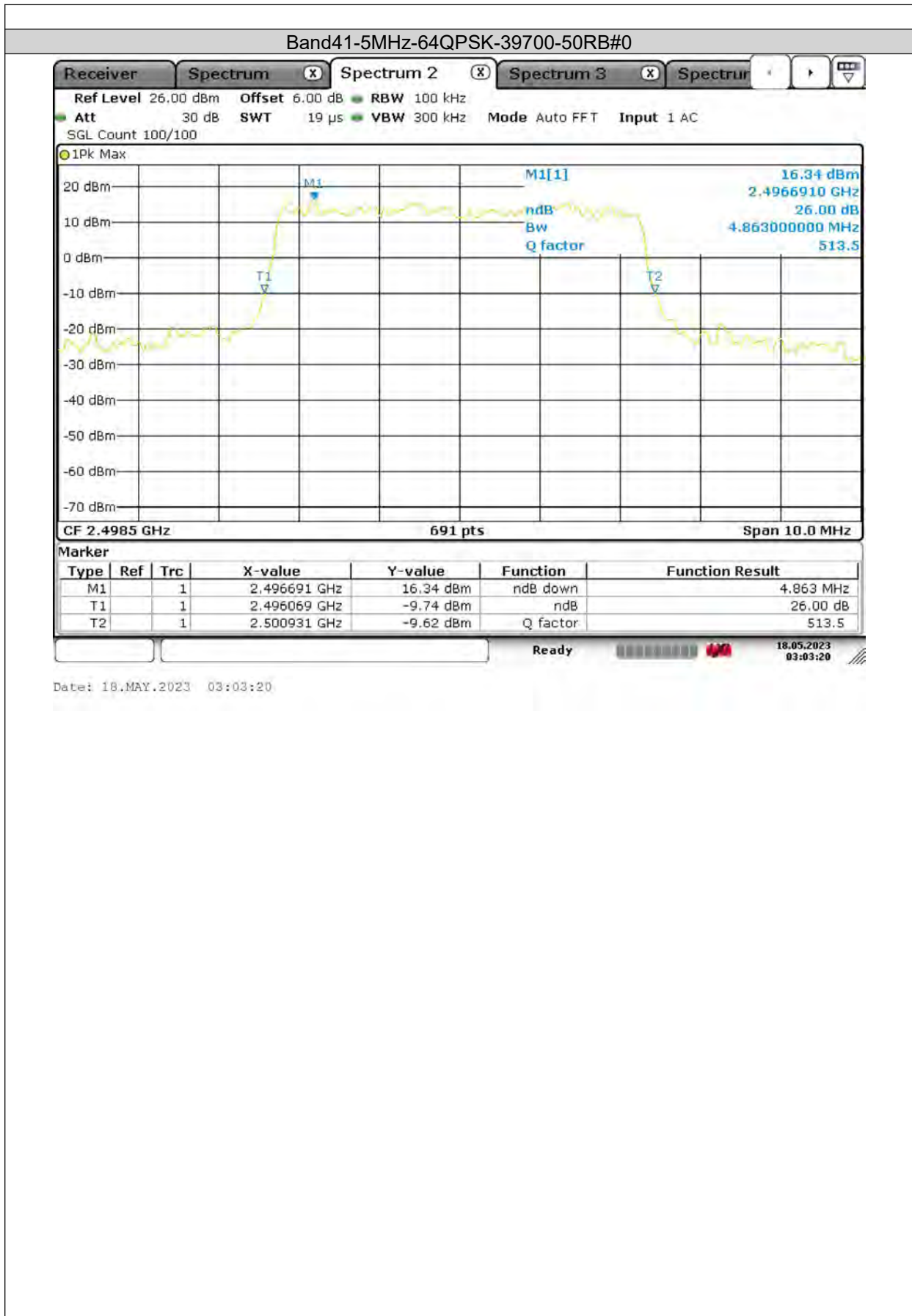
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

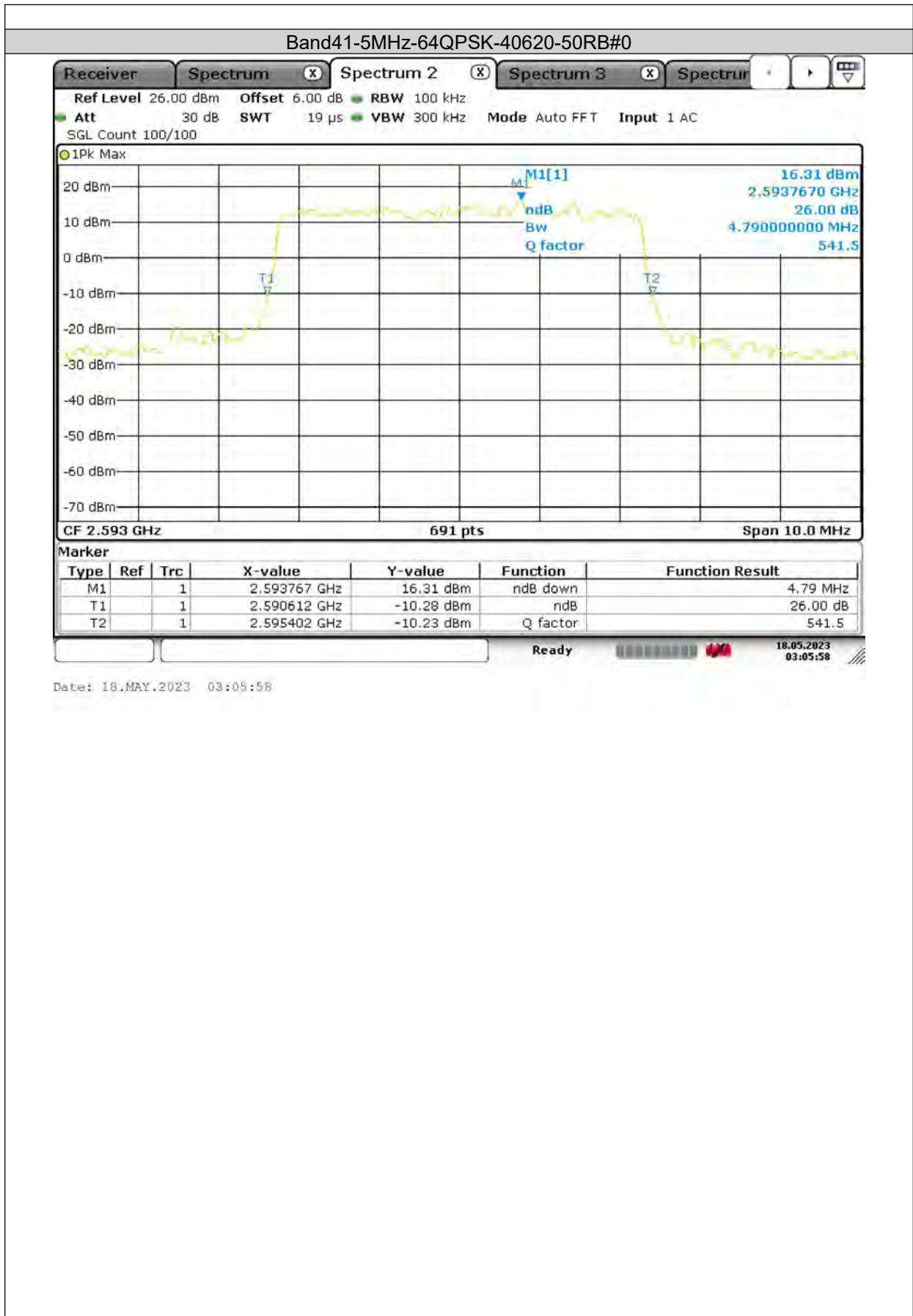
Test Report No.: PSZ-NQN2303280110RF08





**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

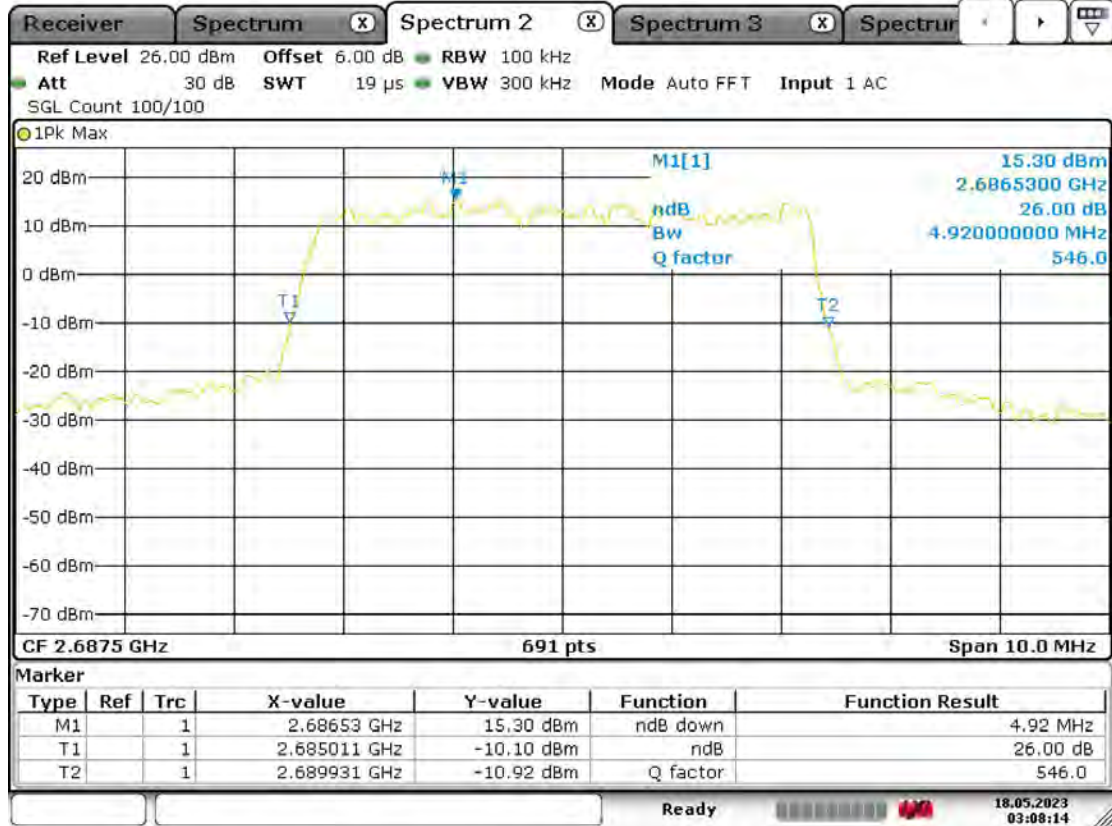




BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-5MHz-64QPSK-41540-50RB#0

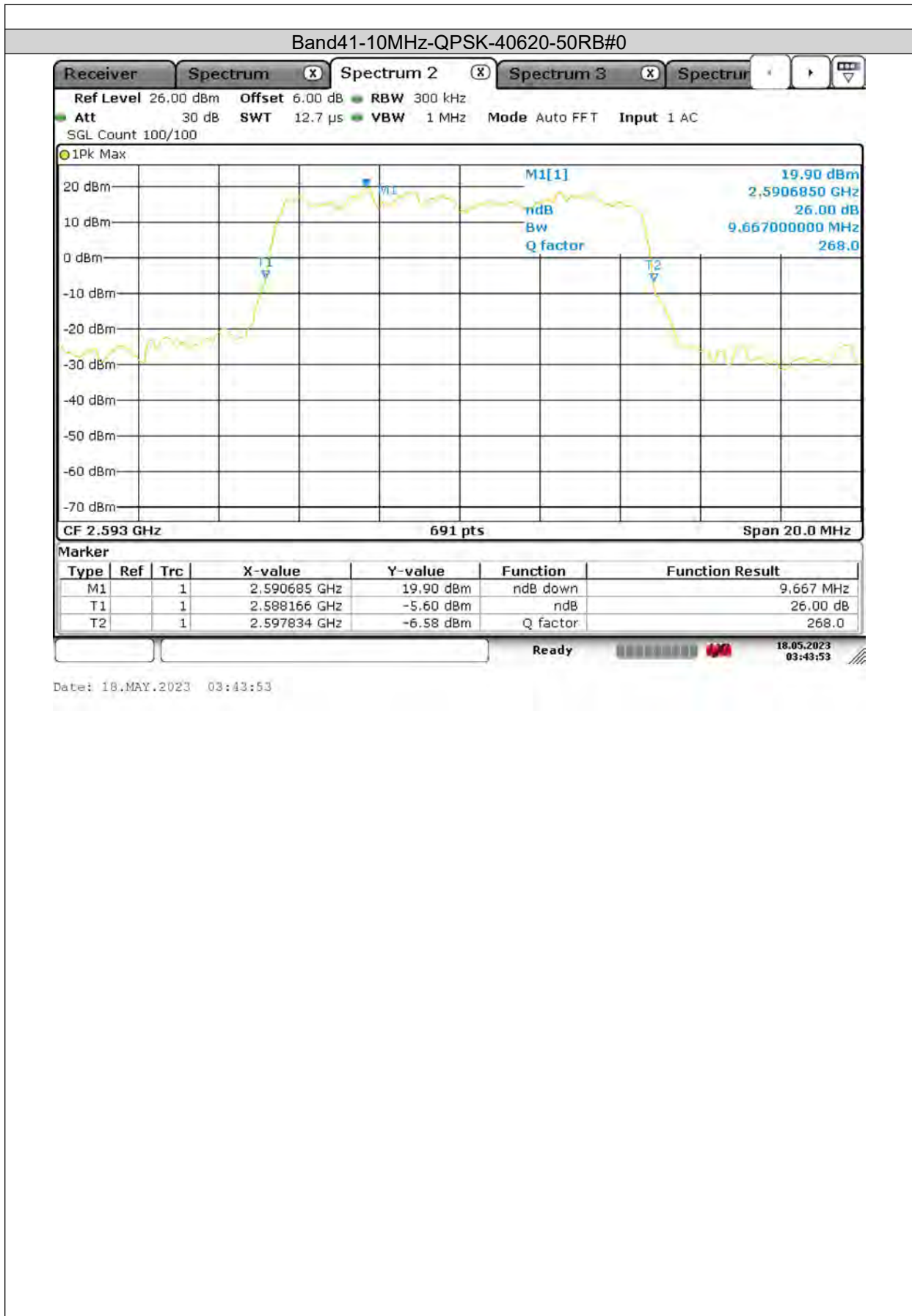


Date: 18.MAY.2023 03:08:14



**BUREAU
VERITAS**

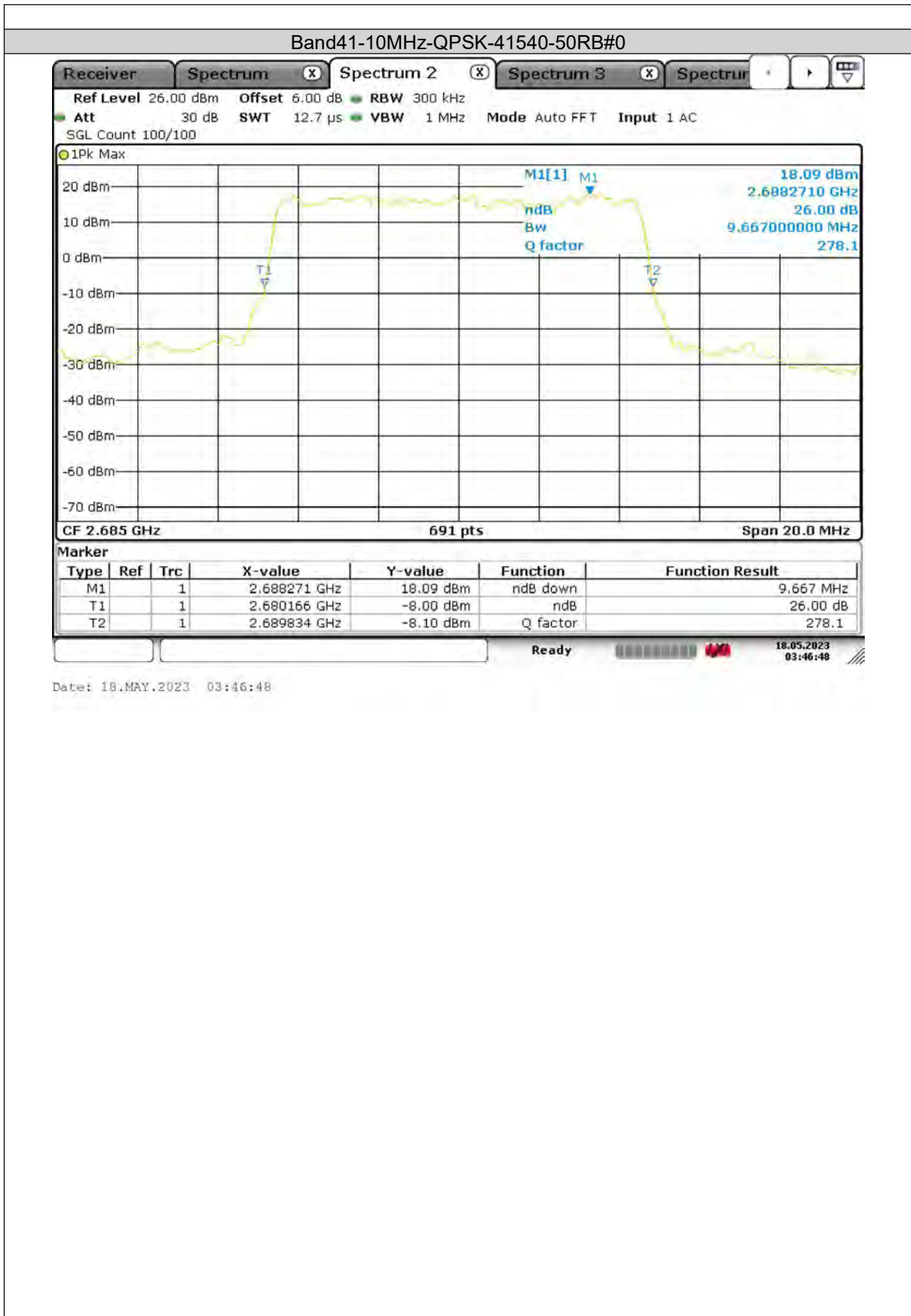
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

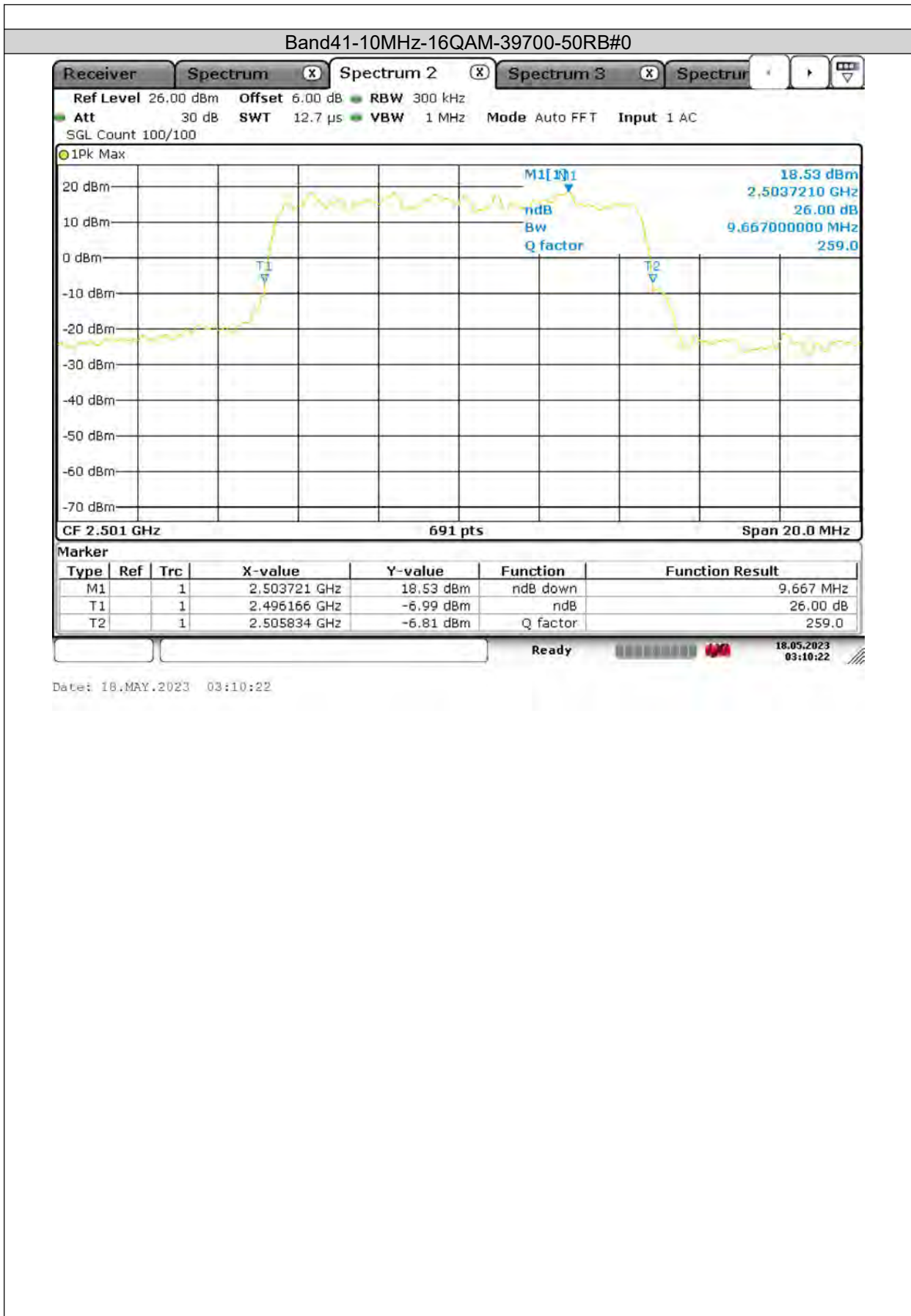
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

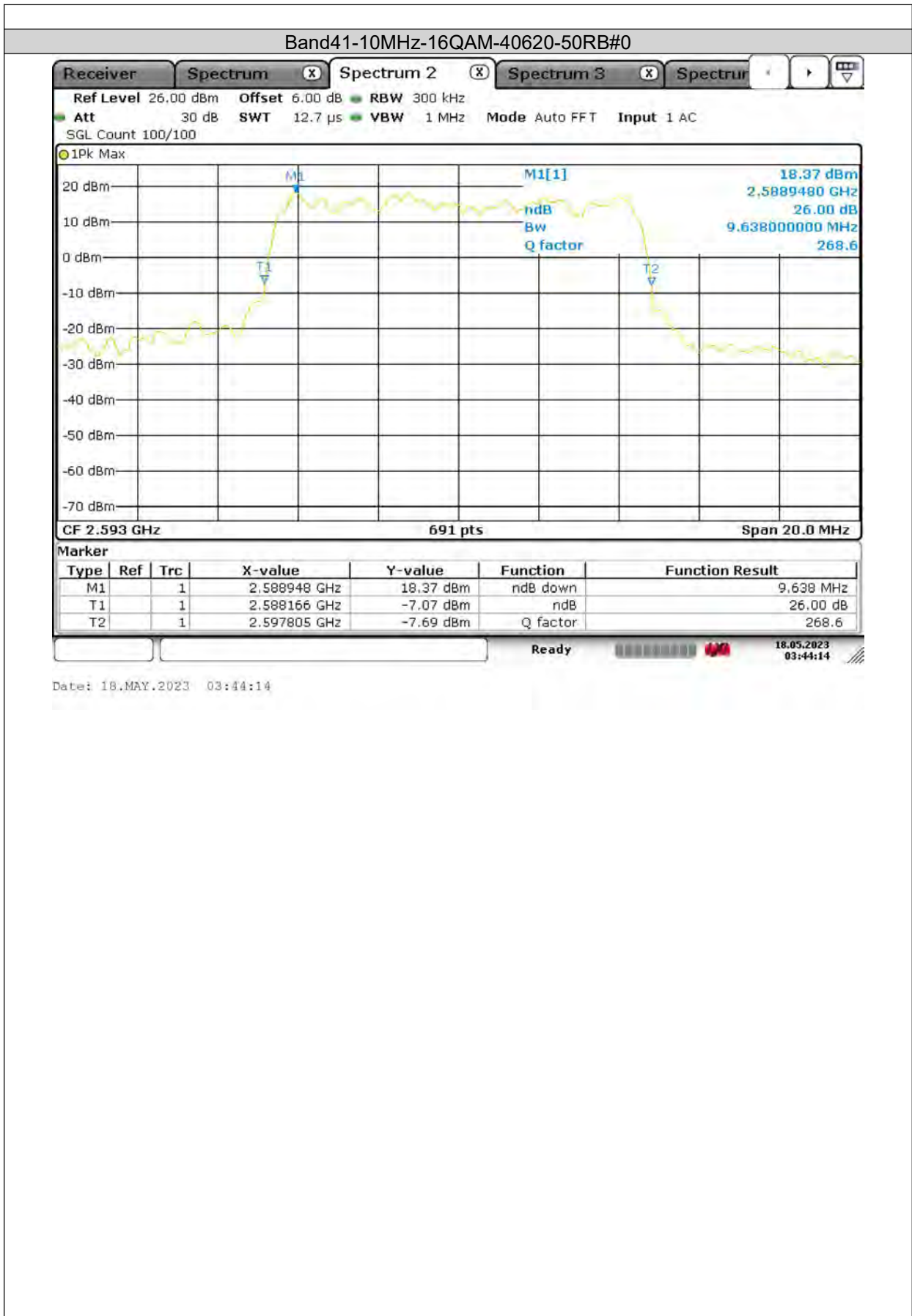
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

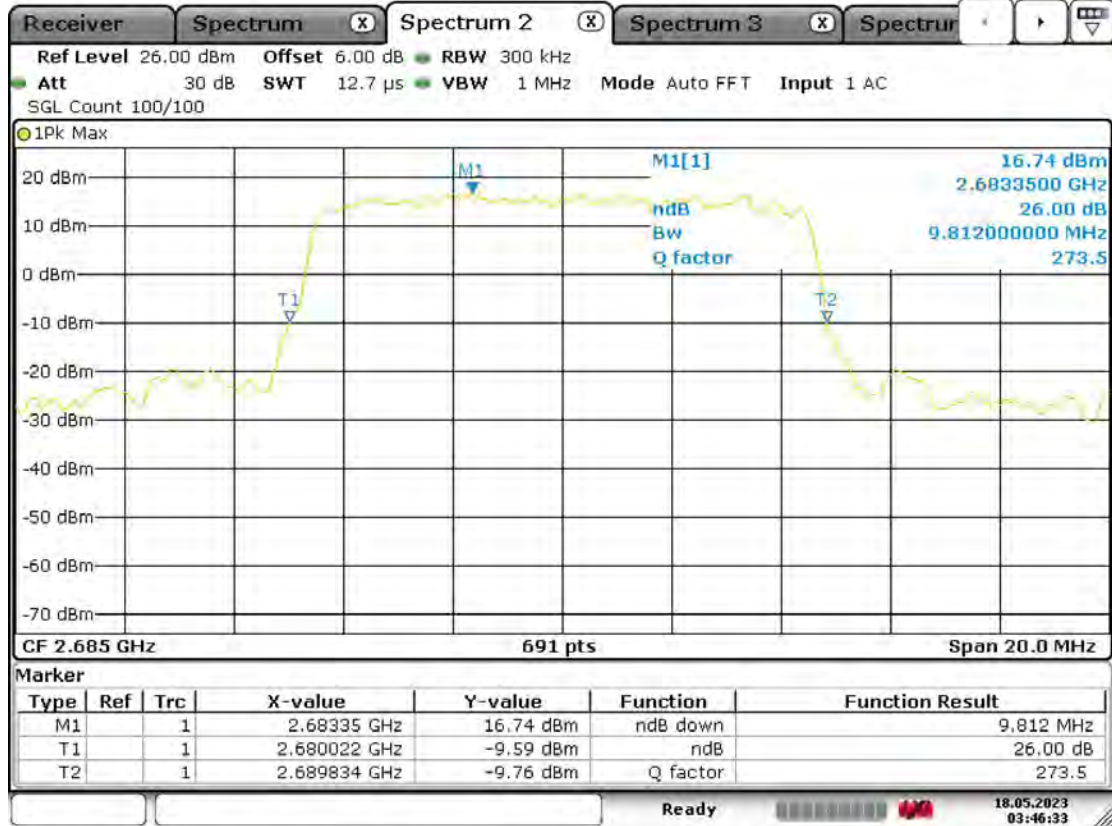




BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-10MHz-16QAM-41540-50RB#0

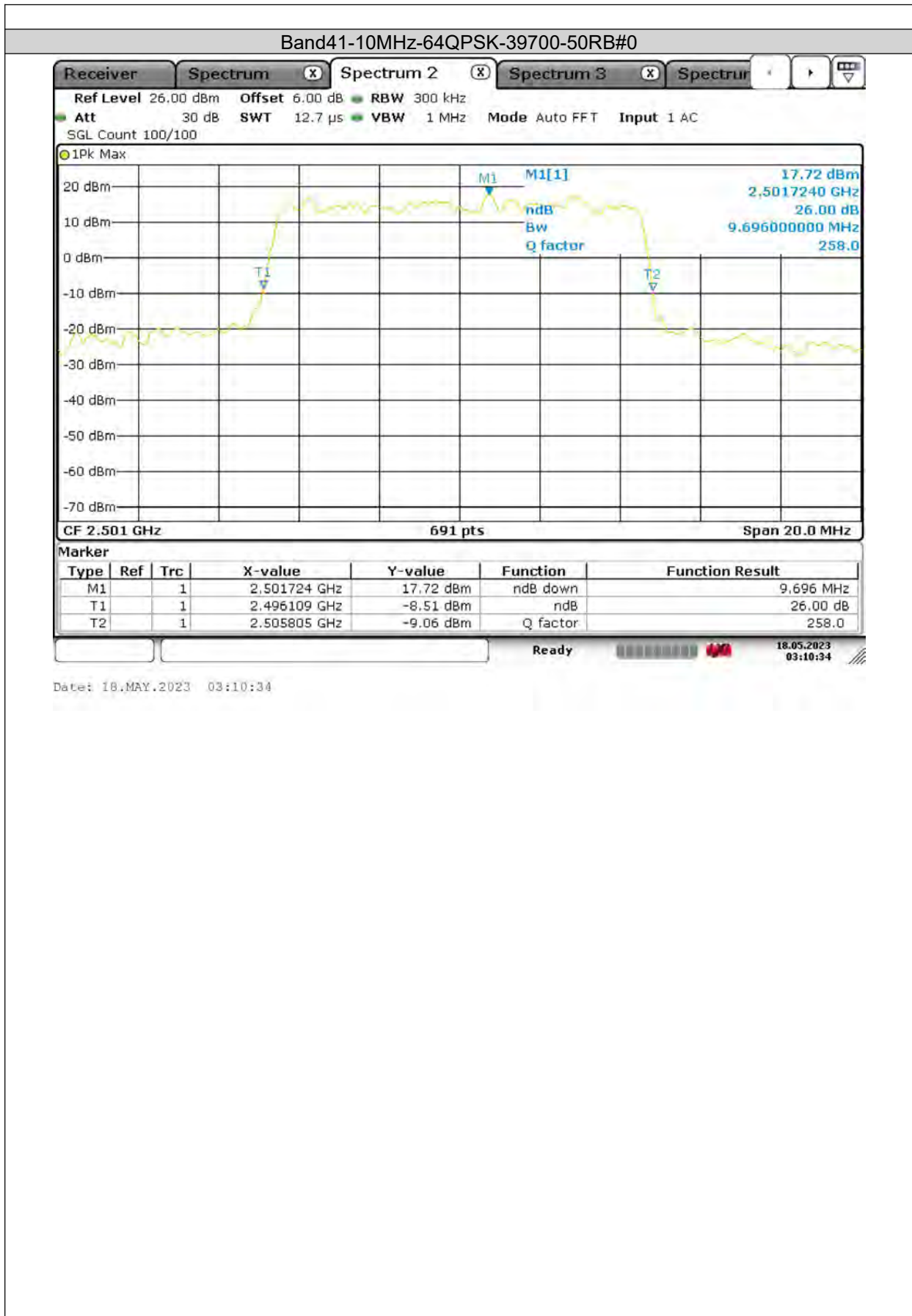


Date: 18.MAY.2023 03:46:34



BUREAU VERITAS

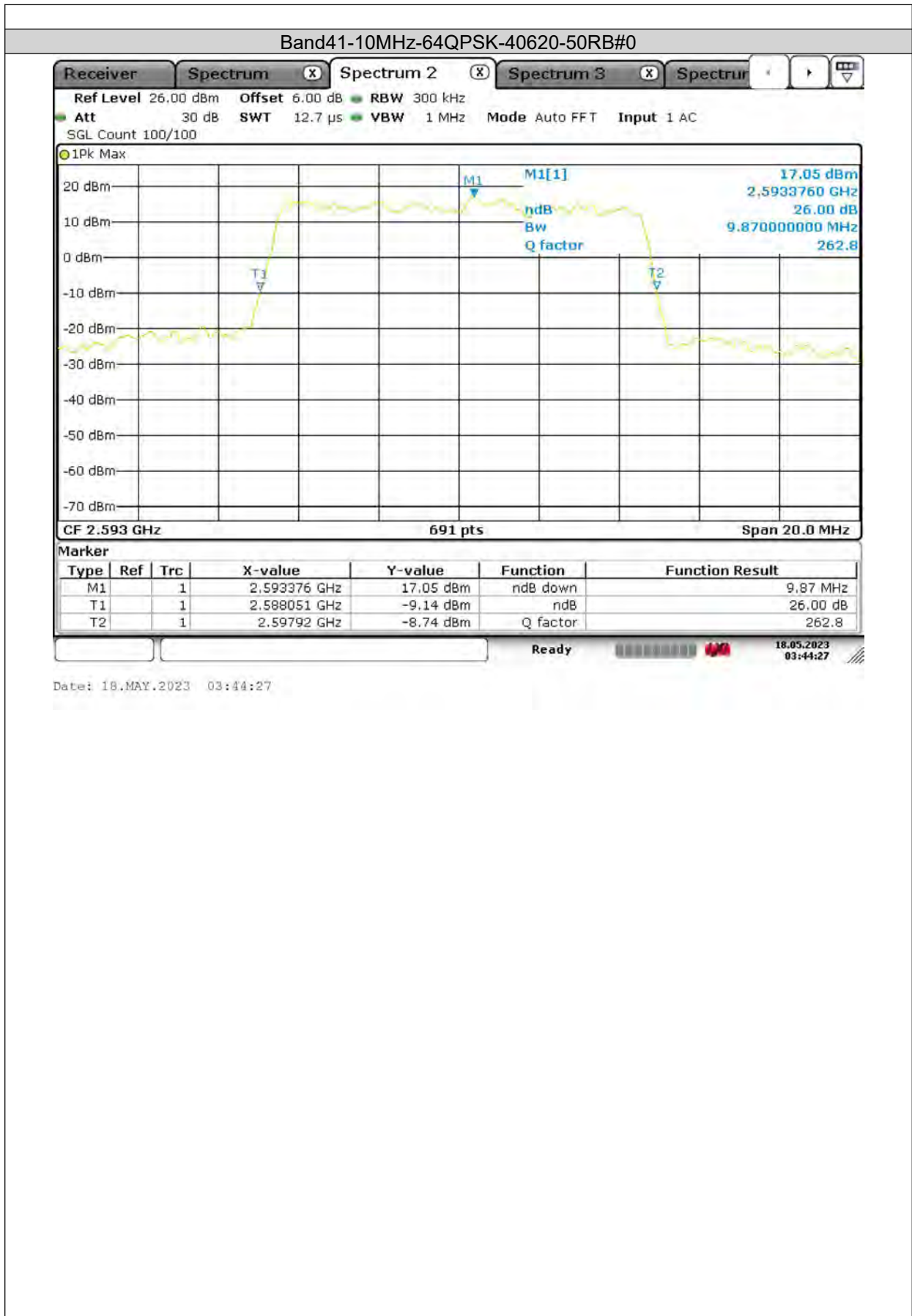
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

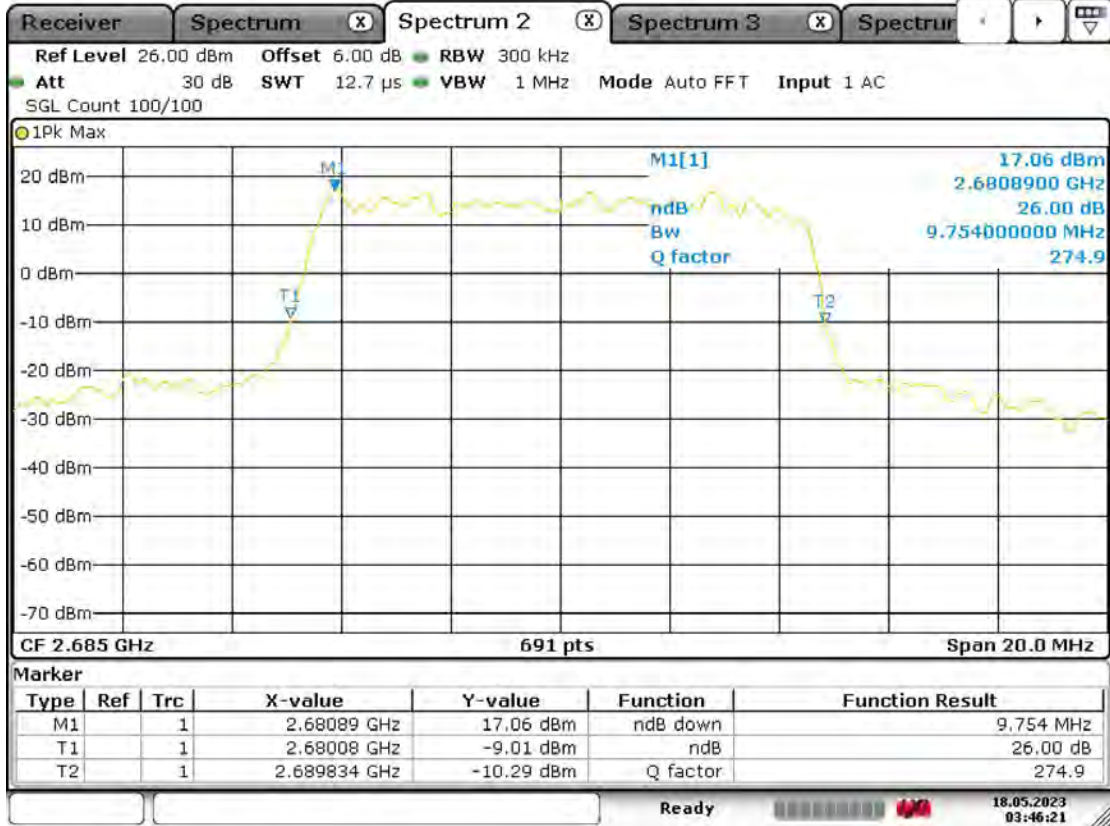




**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

Band41-10MHz-64QPSK-41540-50RB#0



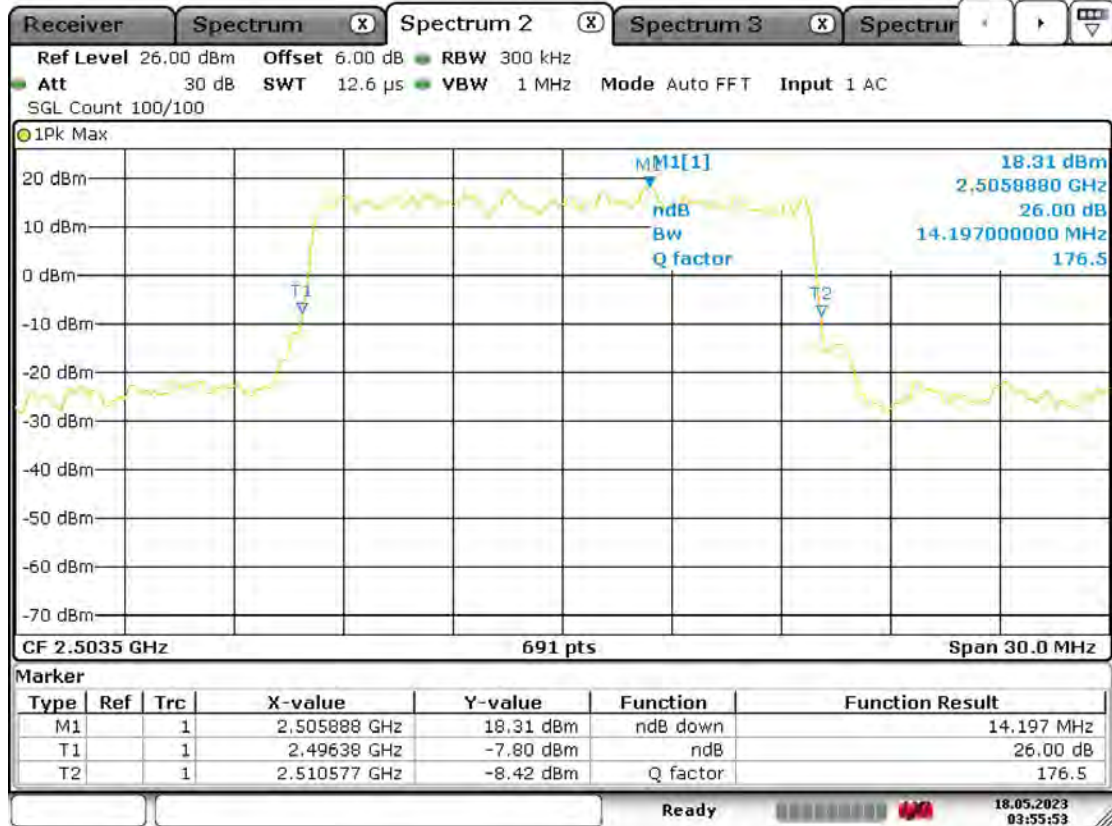
Date: 18.MAY.2023 03:46:21



**BUREAU
VERITAS**

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Band41-15MHz-QPSK-39725-75RB#0



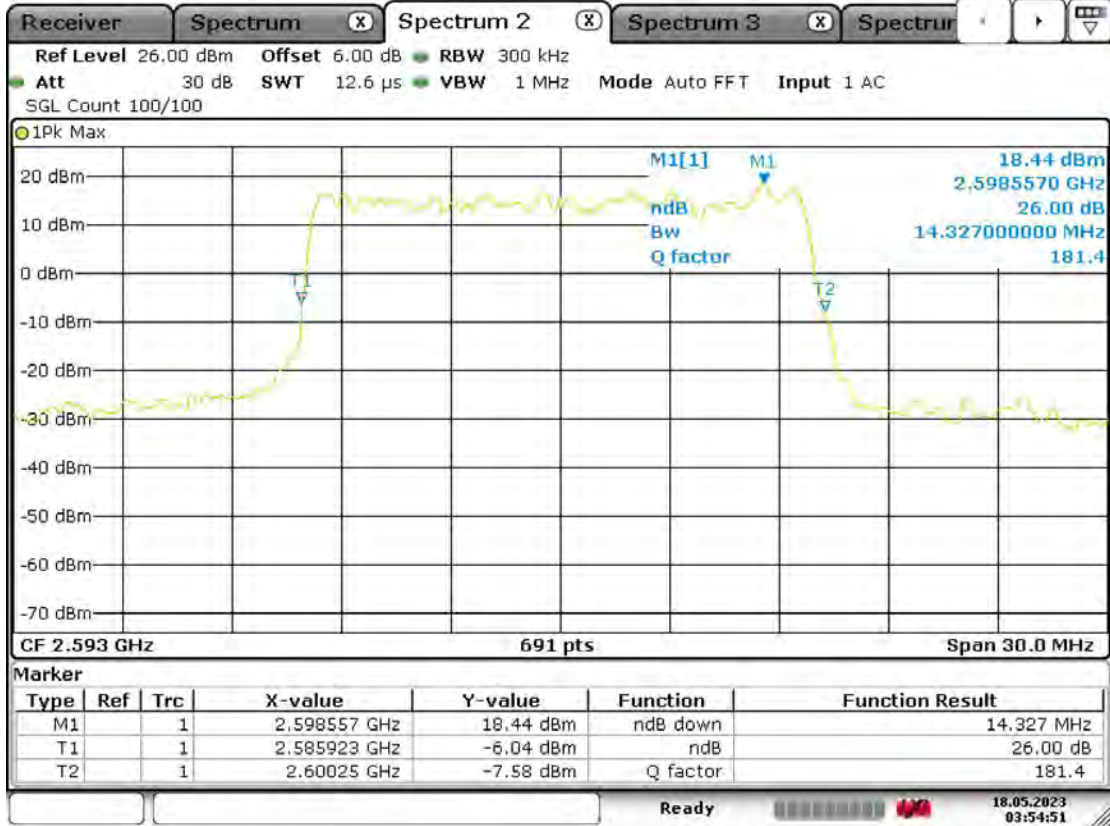
Date: 18.MAY.2023 03:55:54



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-15MHz-QPSK-40620-75RB#0



Date: 18.MAY.2023 03:54:51



**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

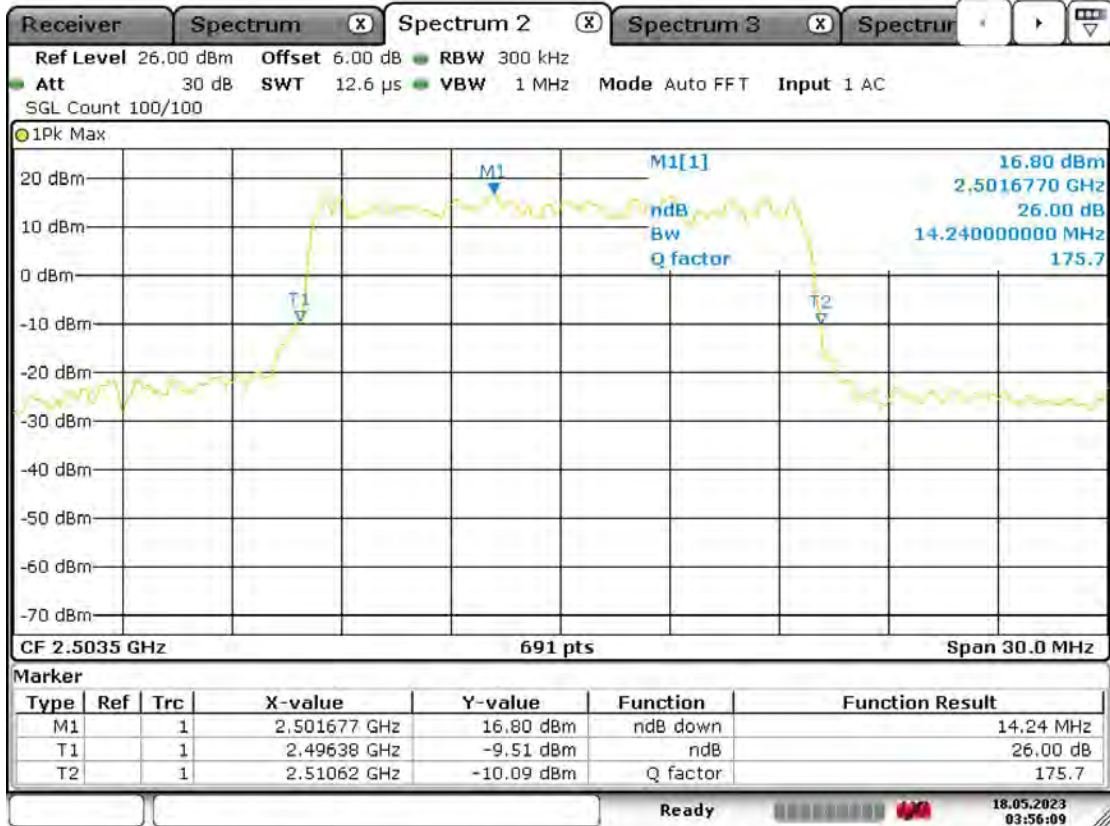
Band41-15MHz-QPSK-41515-75RB#0



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-15MHz-16QAM-39725-75RB#0

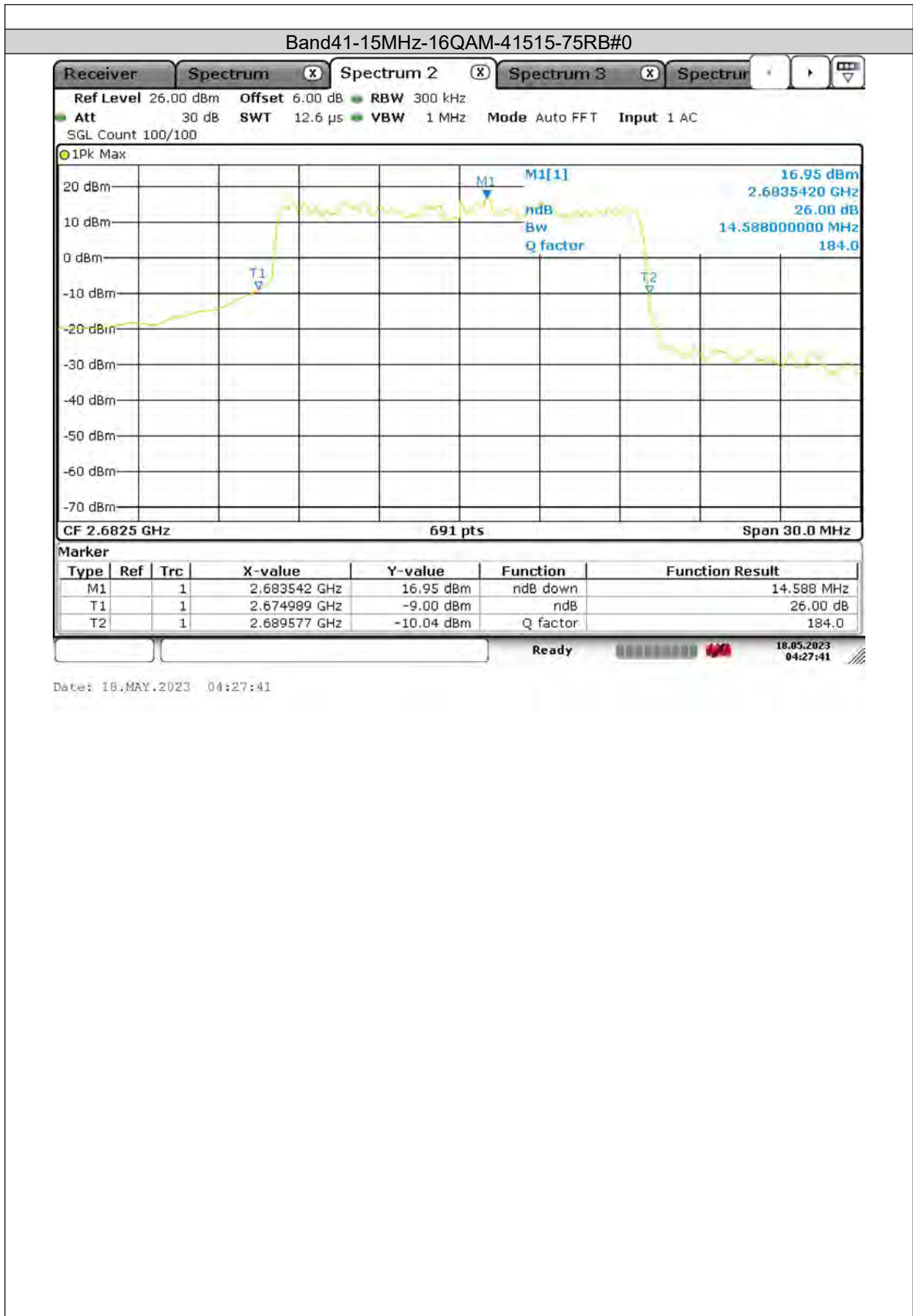


Date: 18.MAY.2023 03:56:09



BUREAU
VERITAS

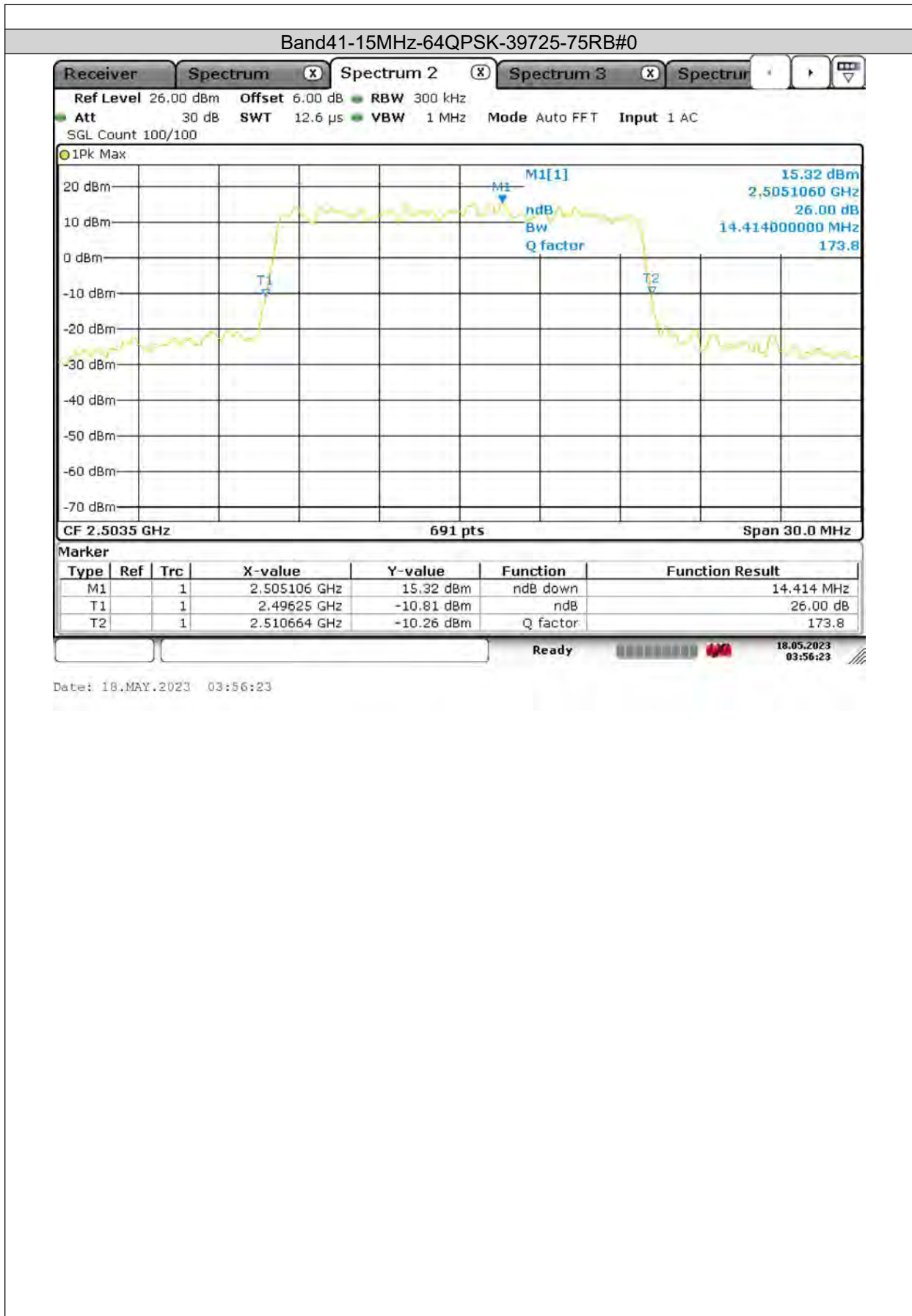
Test Report No.: PSZ-NQN2303280110RF08





**BUREAU
VERITAS**

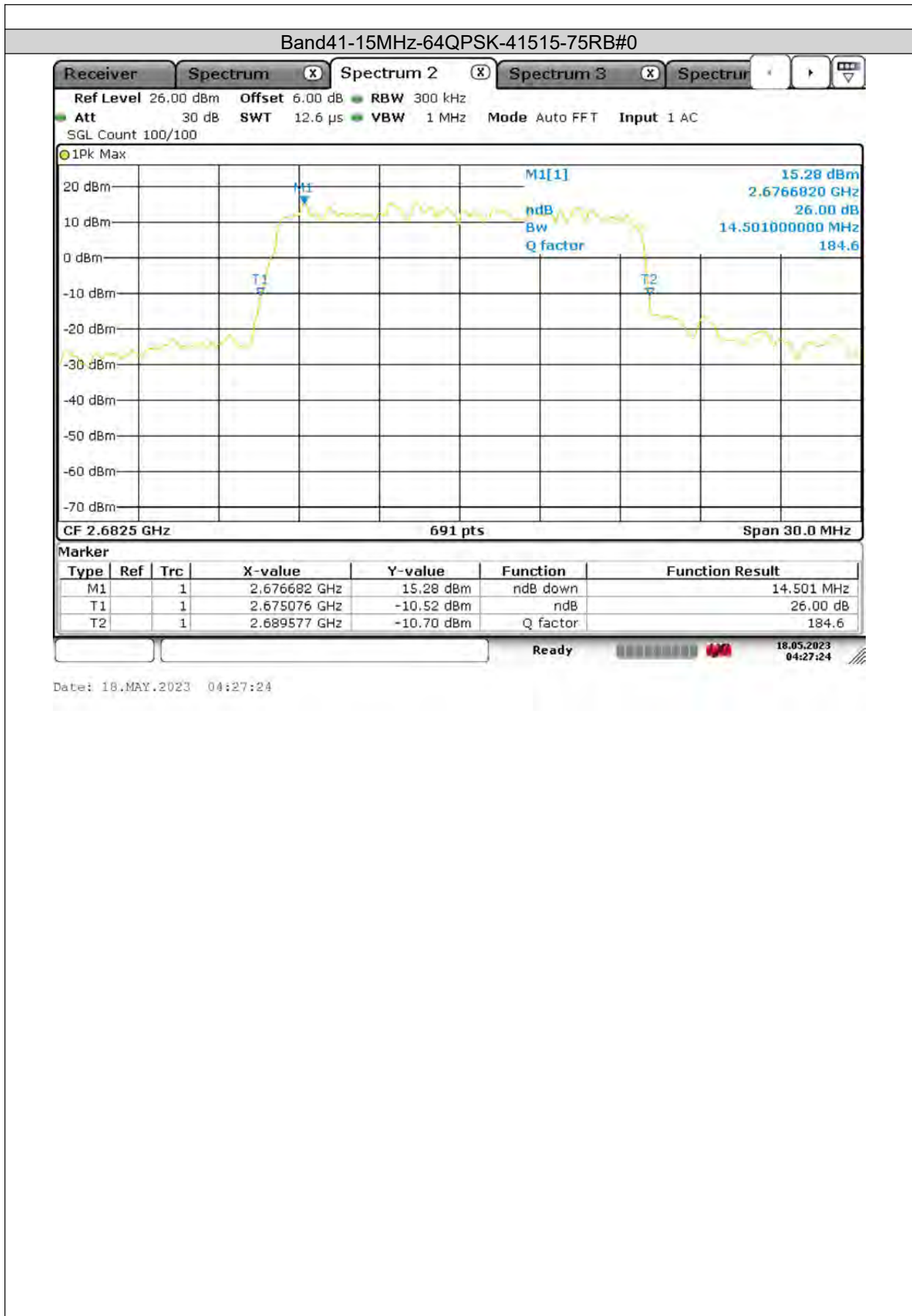
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

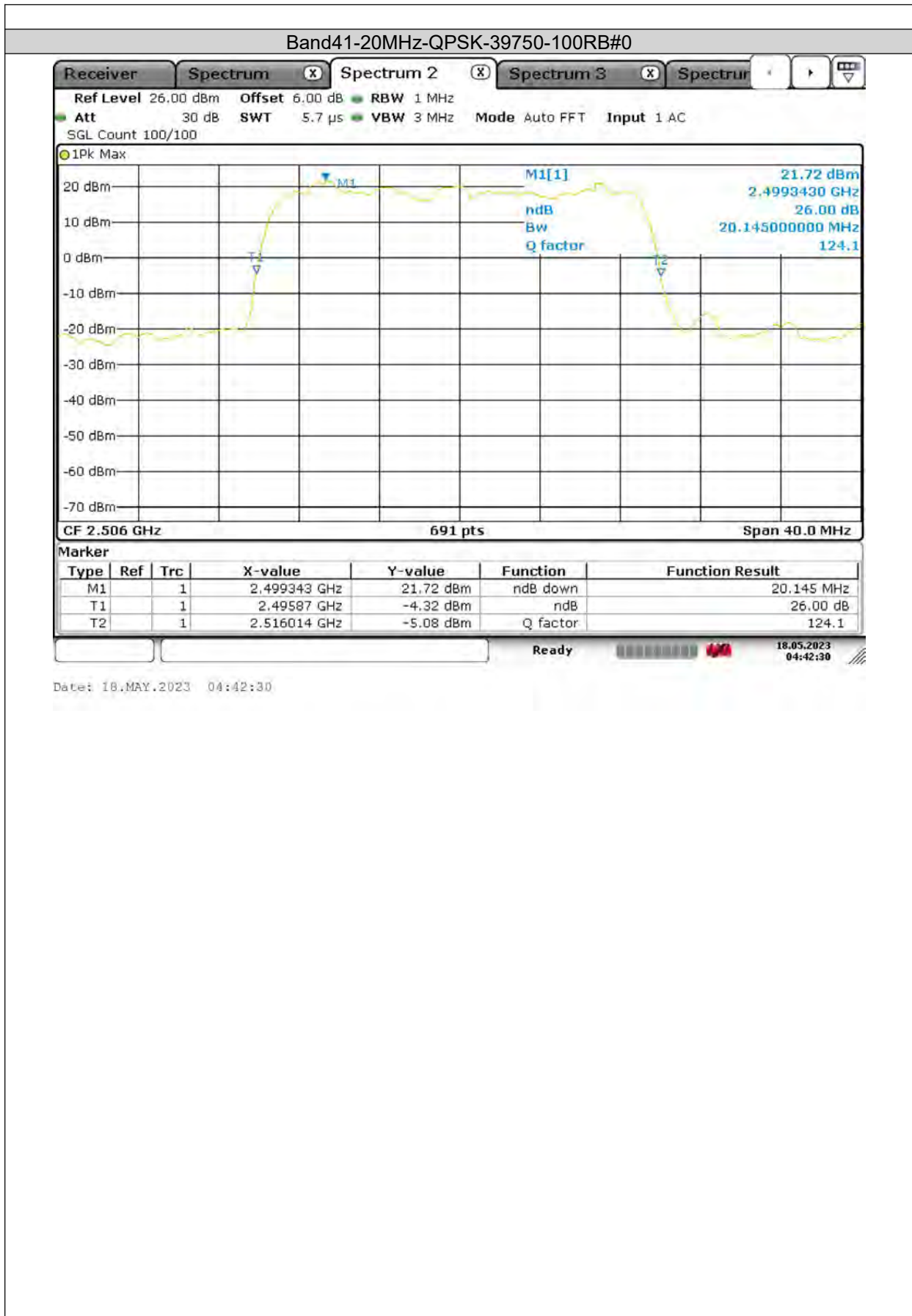
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

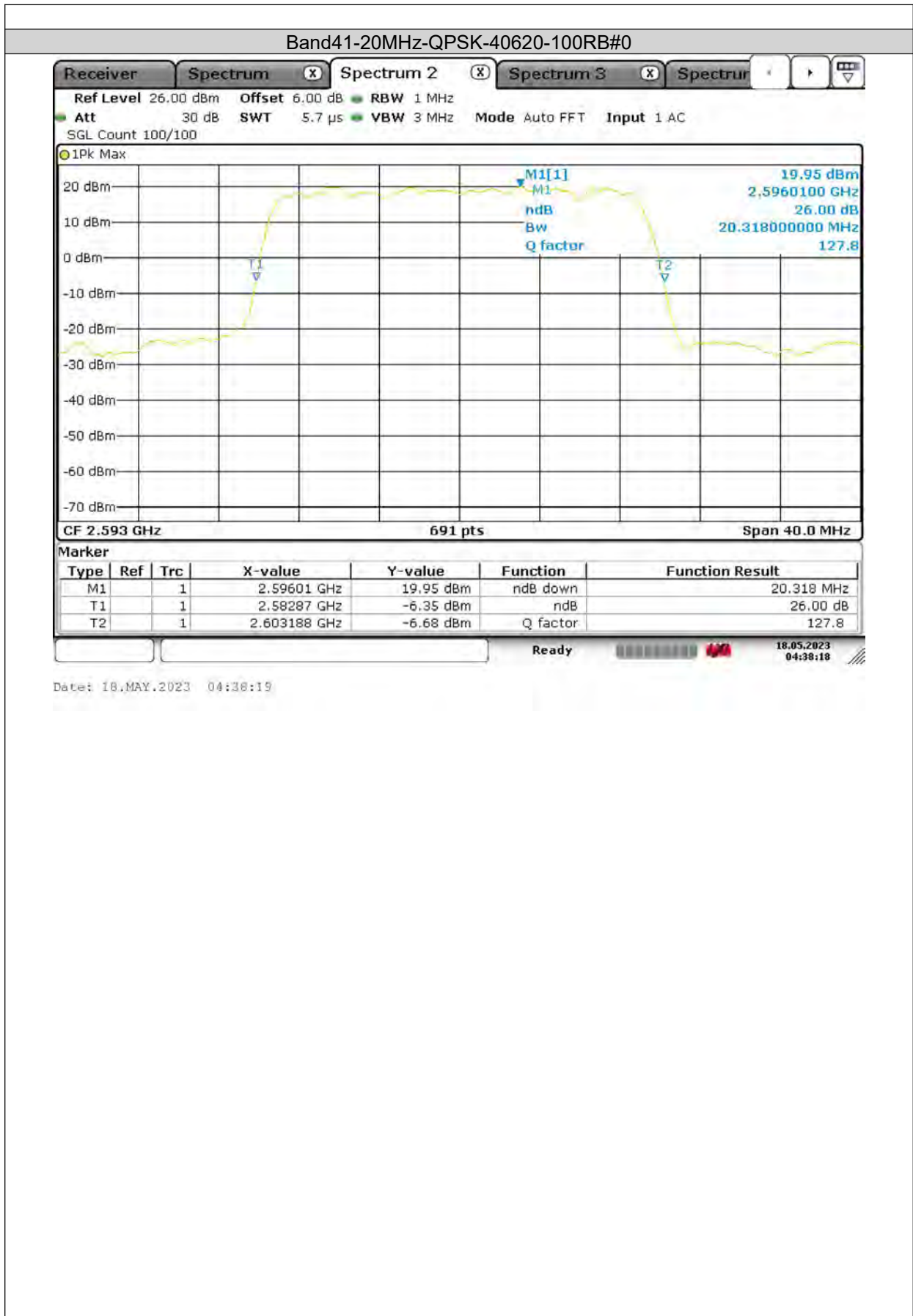
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

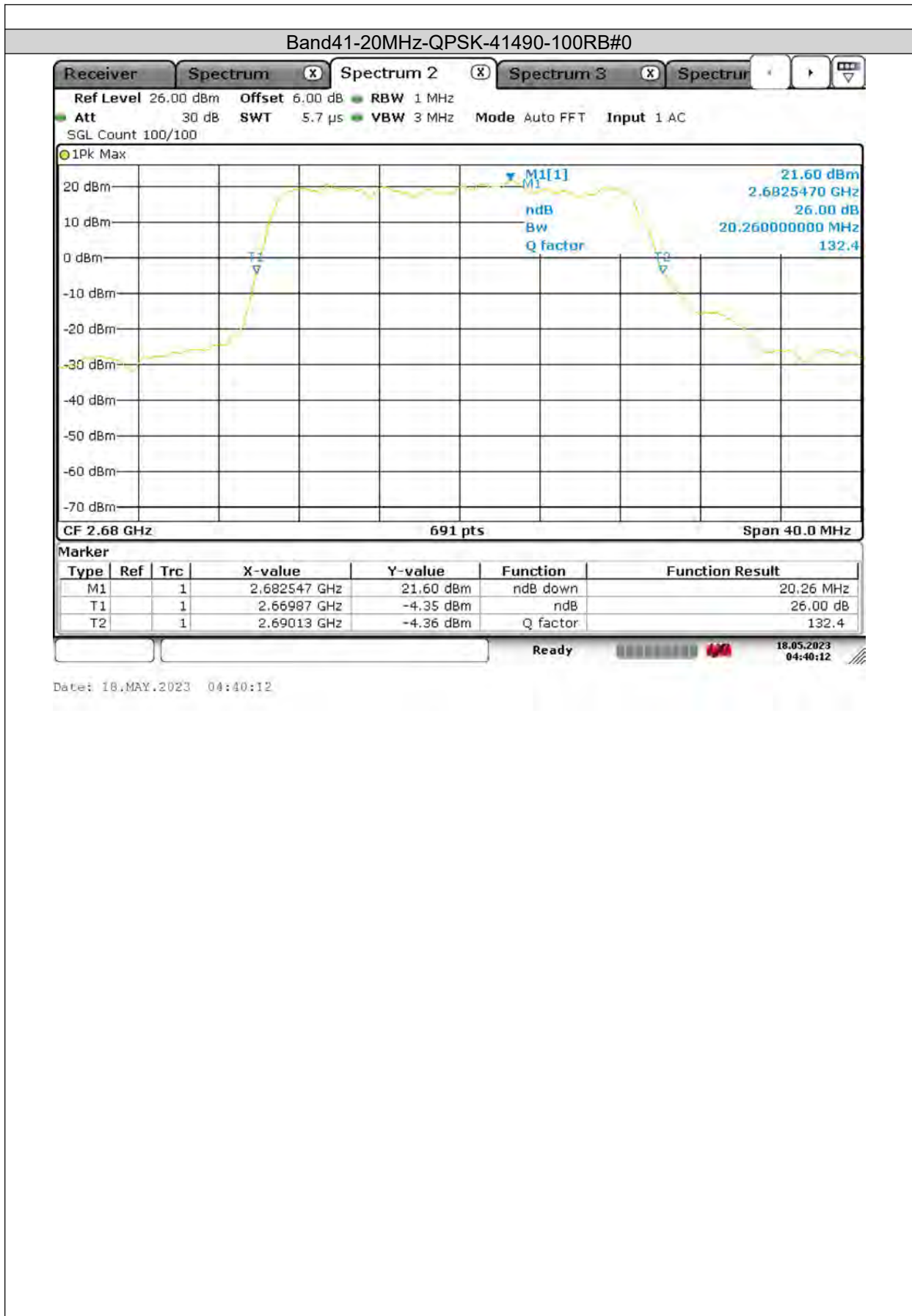
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

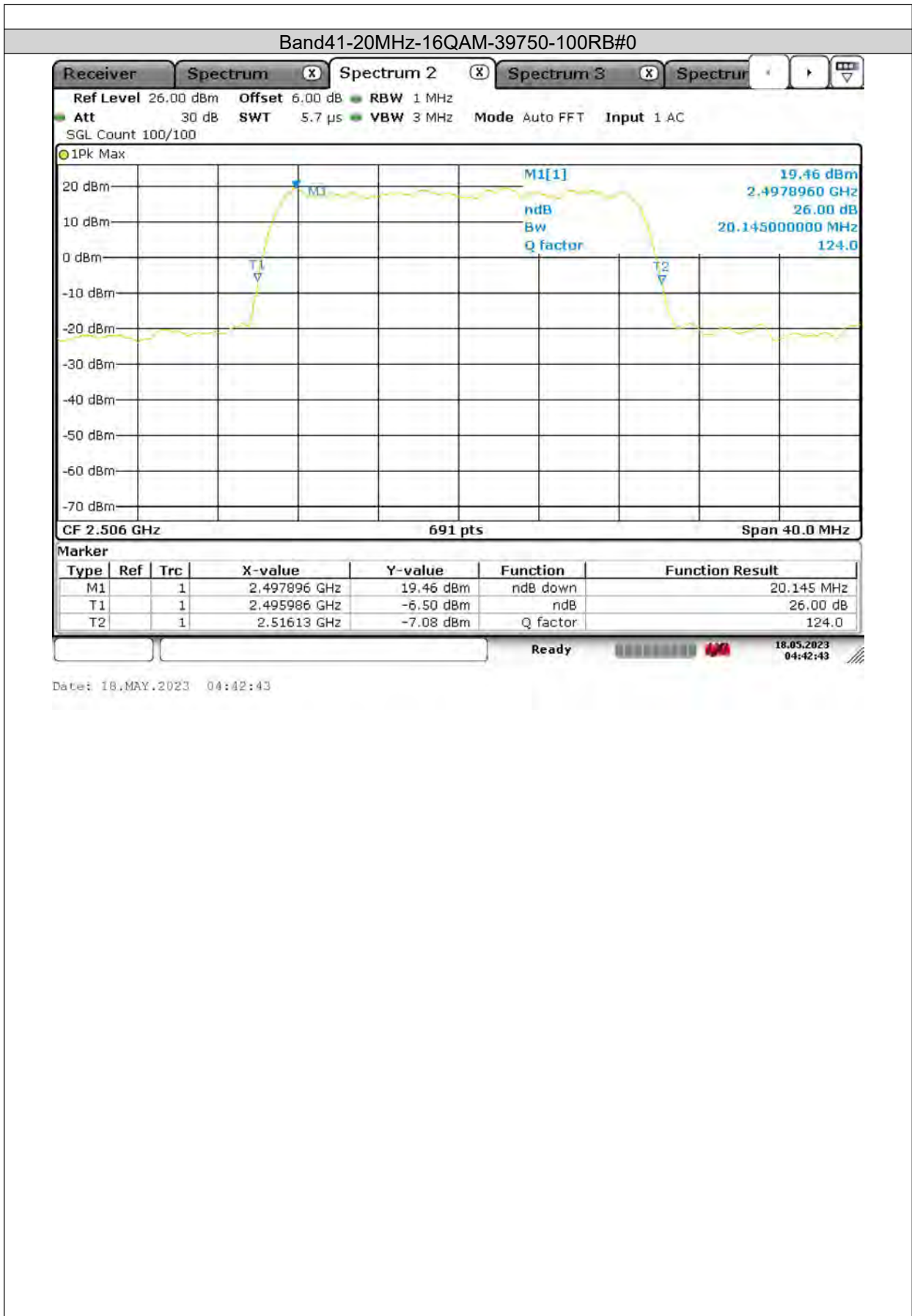
Test Report No.: PSZ-NQN2303280110RF08





BUREAU VERITAS

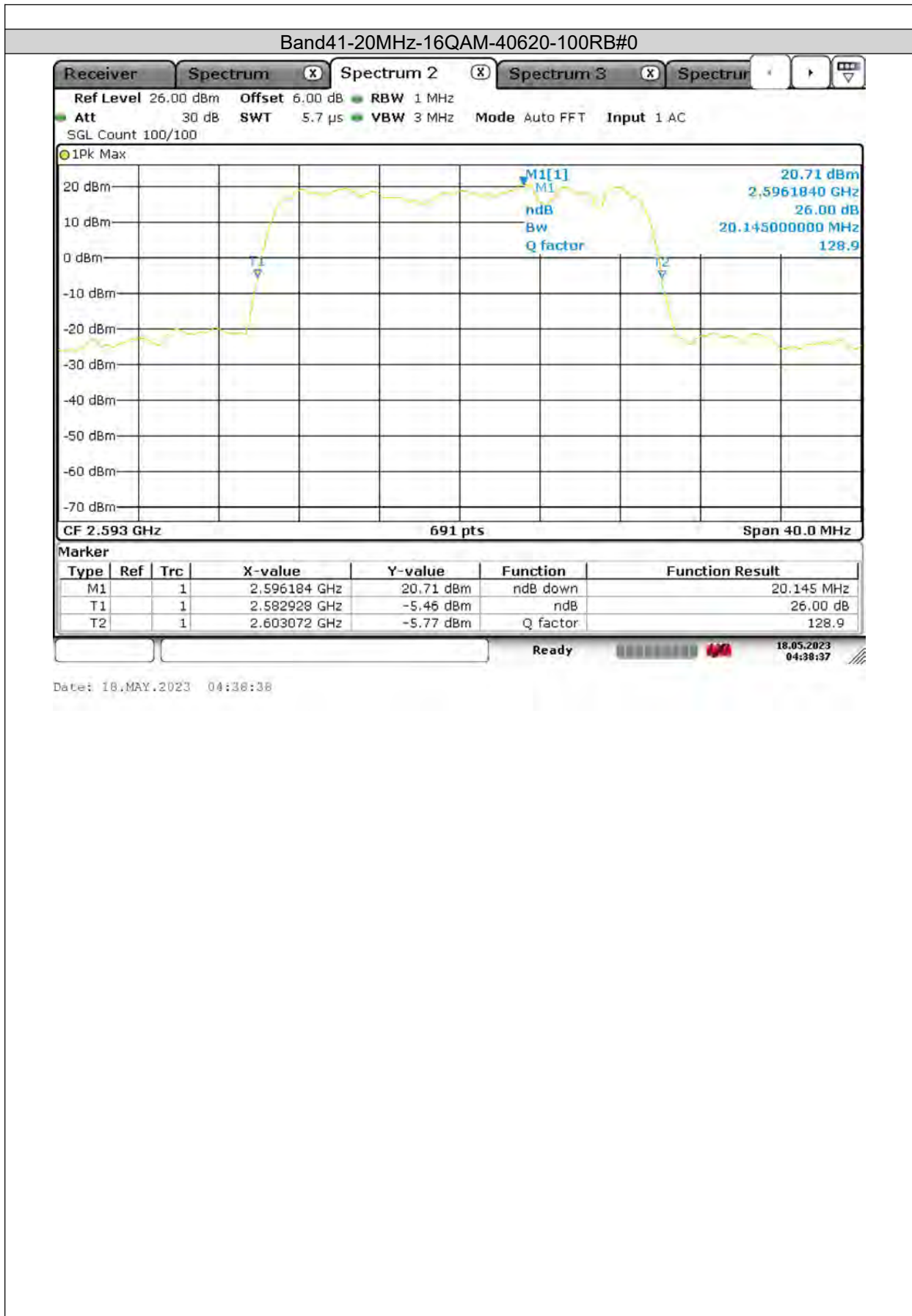
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

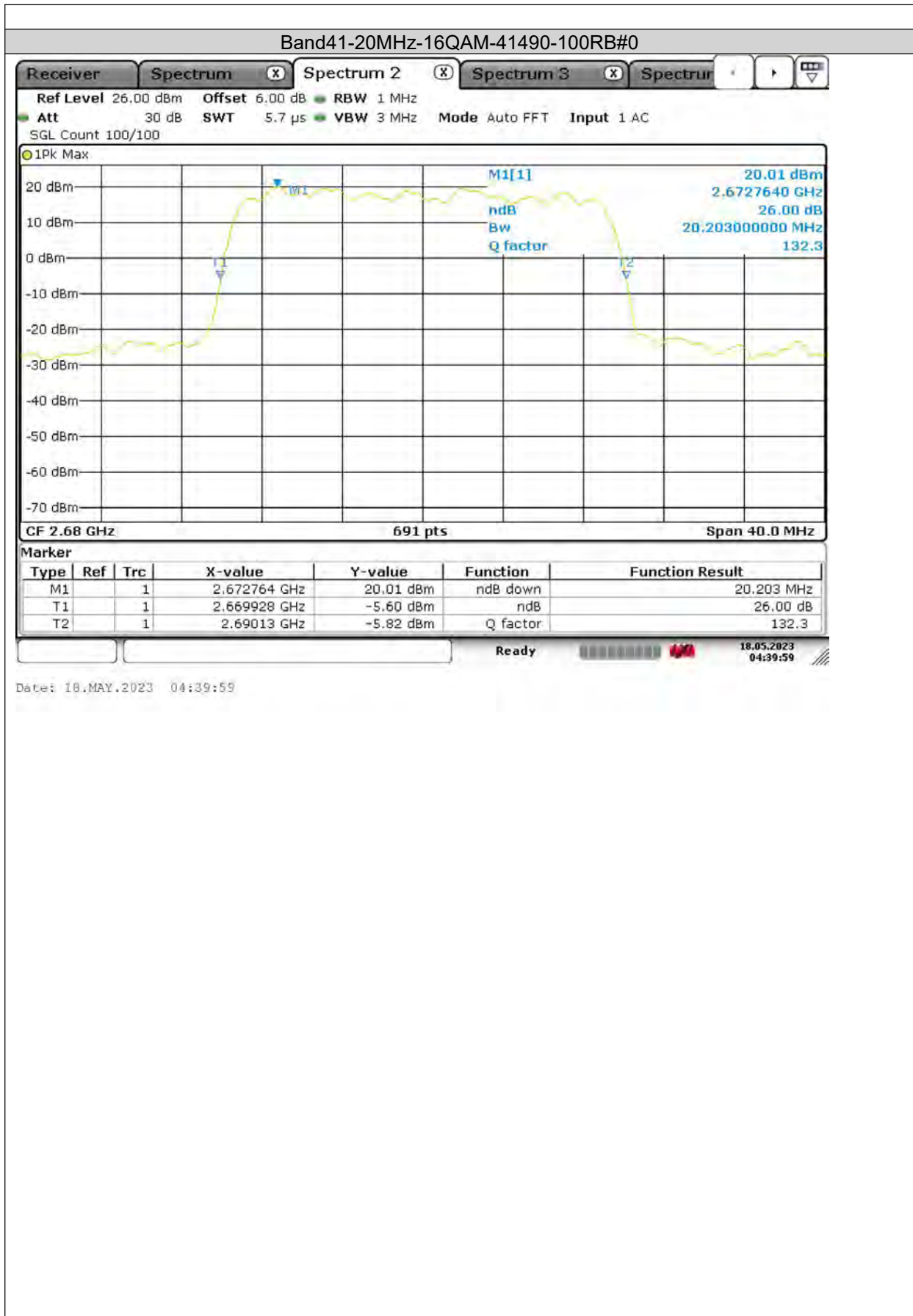
Test Report No.: PSZ-NQN2303280110RF08





BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

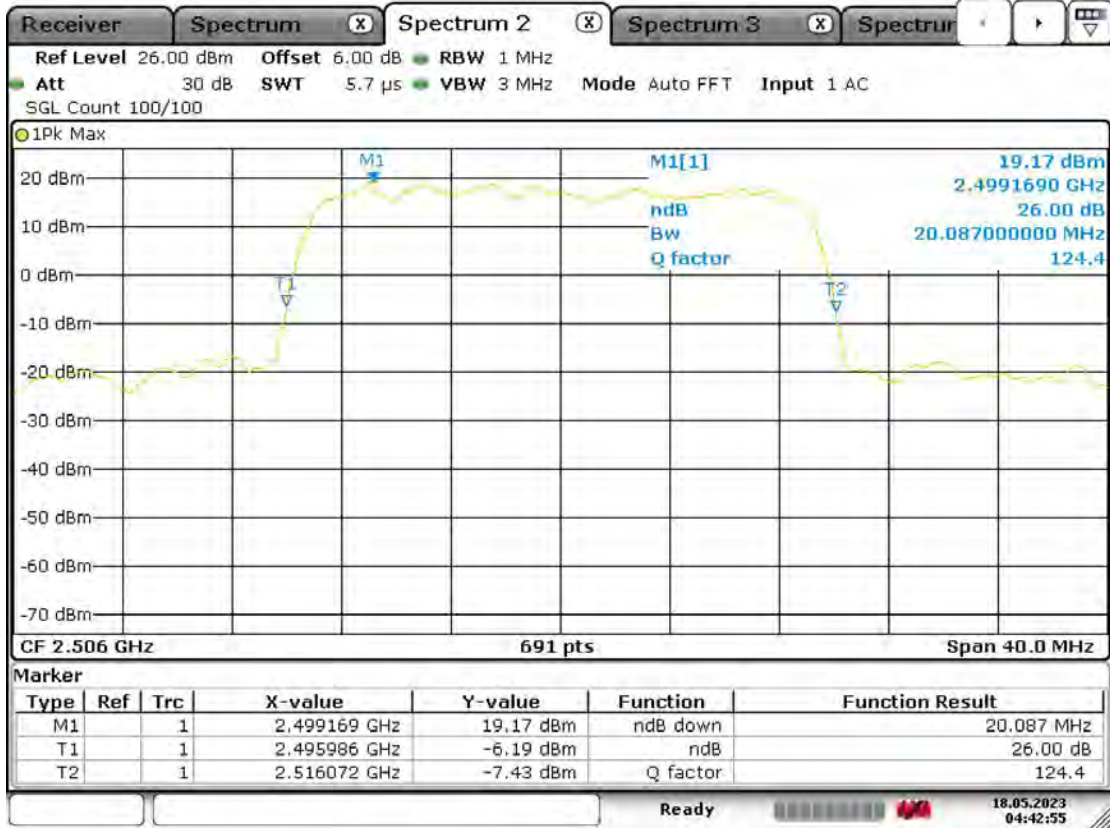




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VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-20MHz-64QPSK-39750-100RB#0



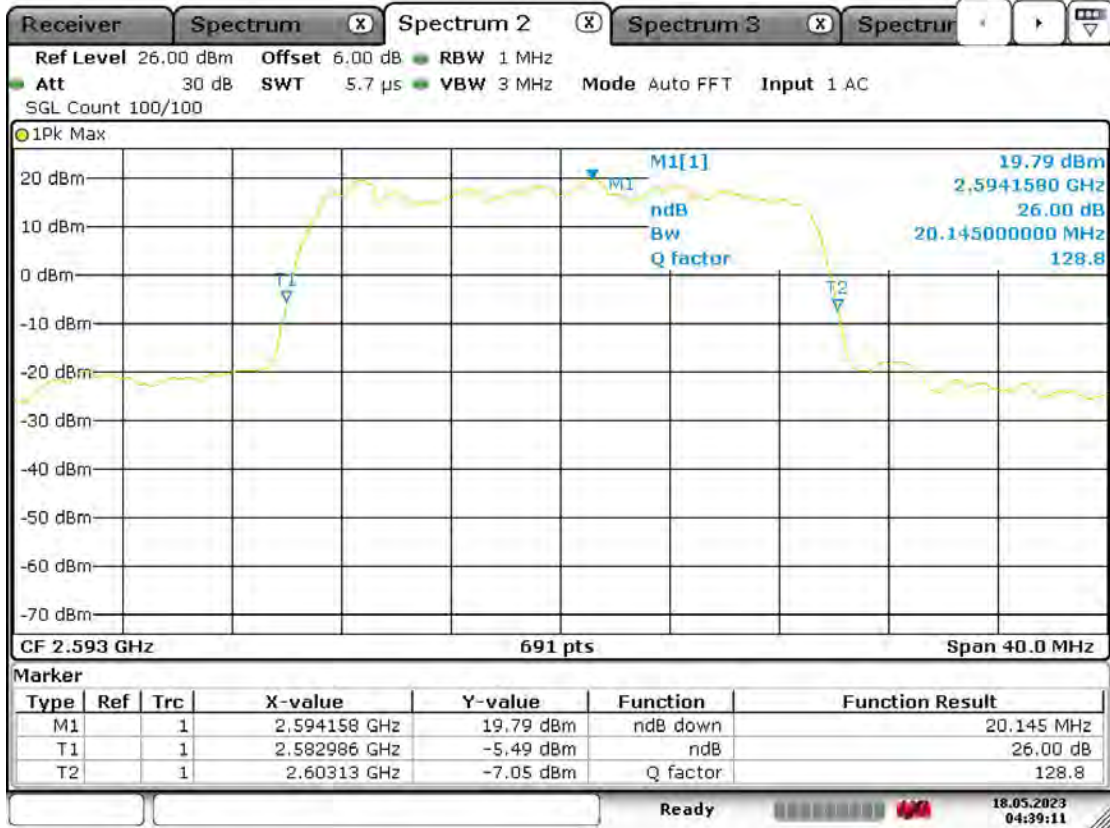
Date: 18.MAY.2023 04:42:55



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

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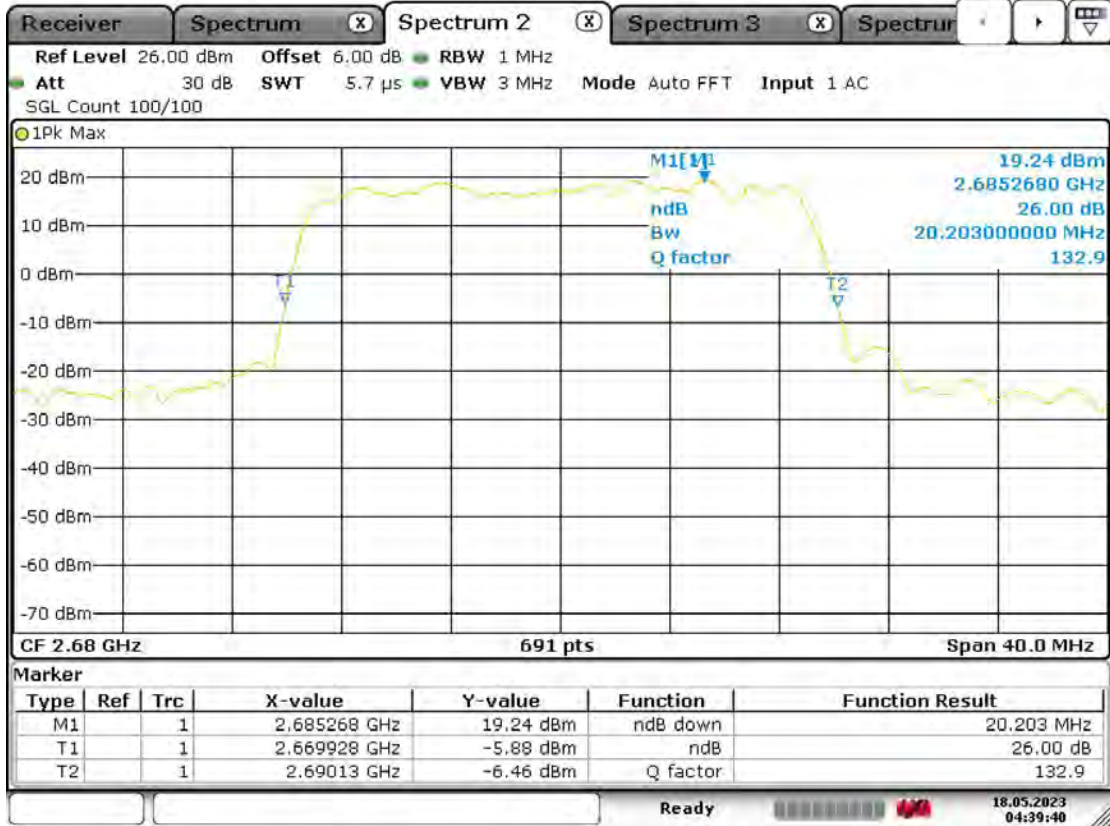
Date: 18.MAY.2023 04:39:12



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

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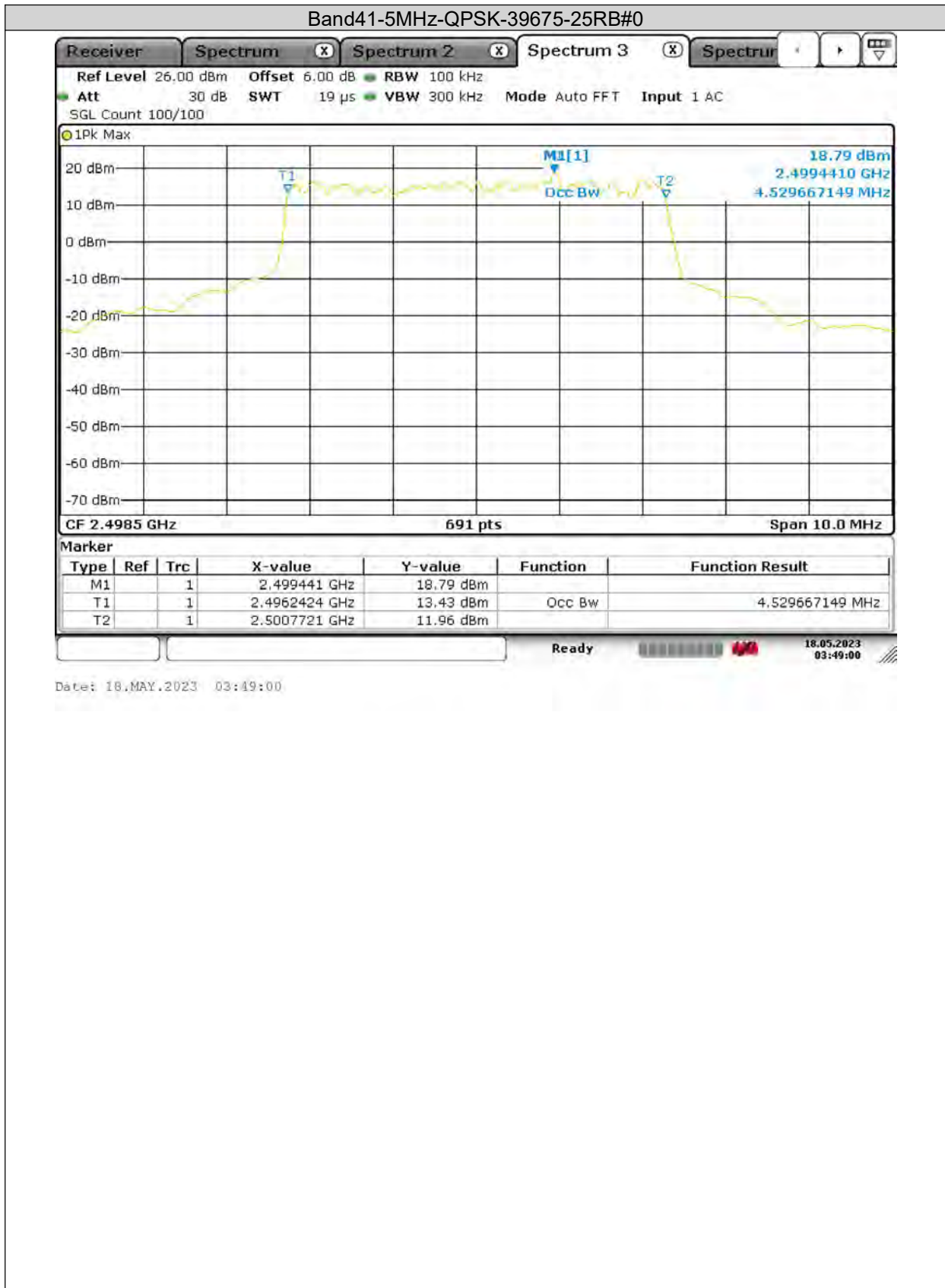


Date: 18.MAY.2023 04:39:40



Test Report No.: PSZ-NQN2303280110RF08

Occupied Bandwidth

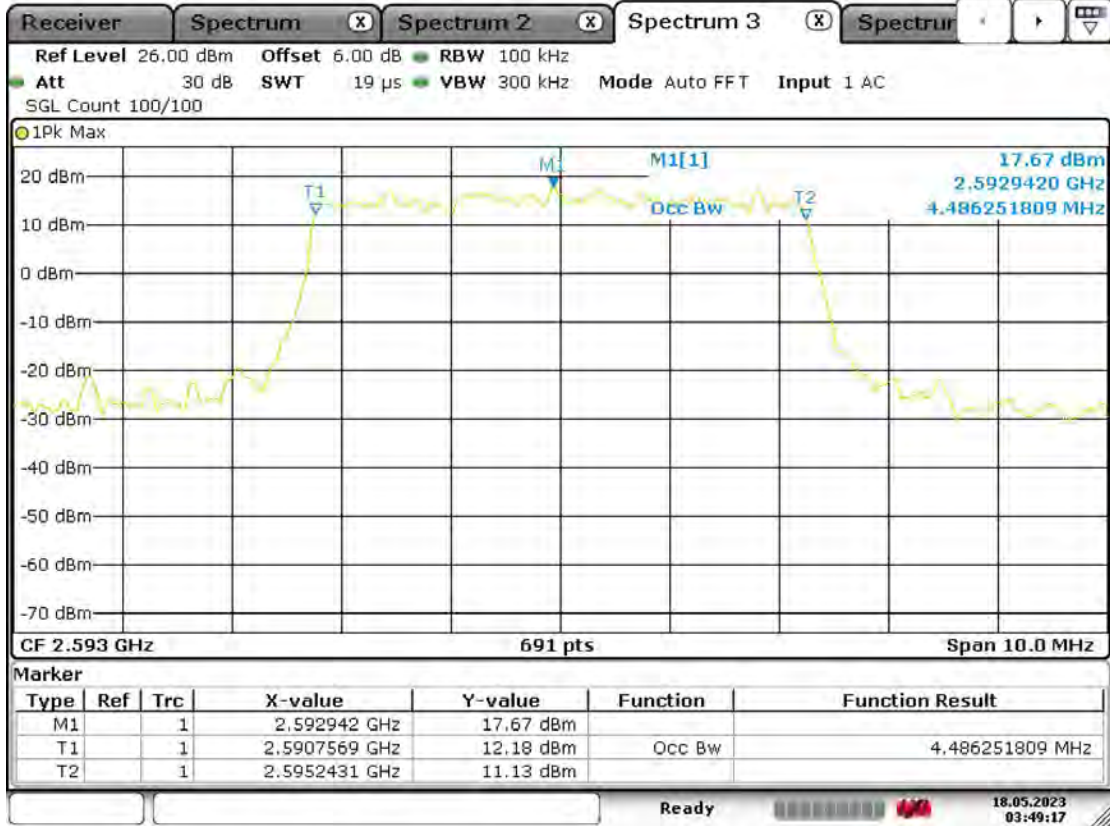




BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-5MHz-QPSK-40620-25RB#0

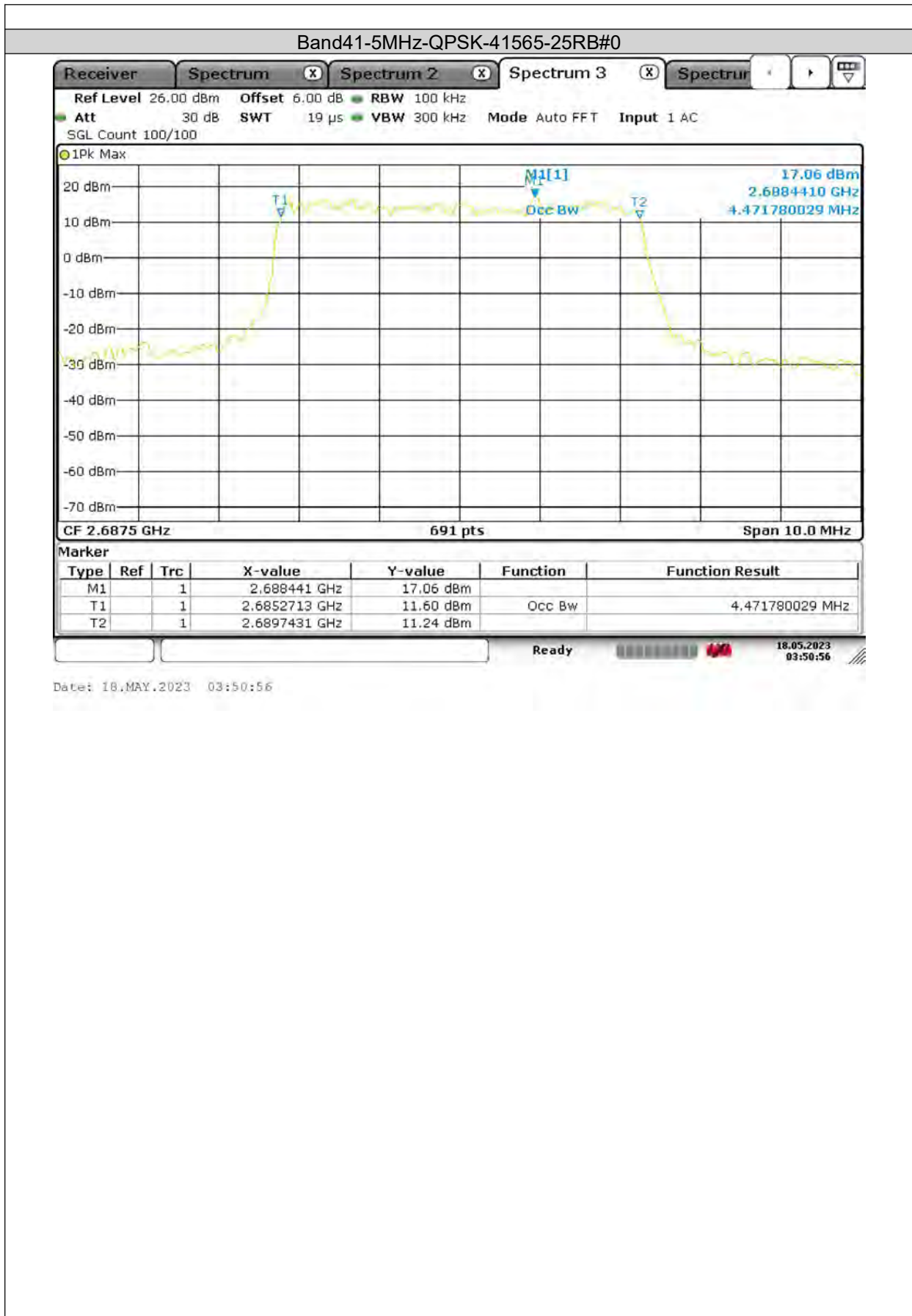


Date: 18.MAY.2023 03:49:17



**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

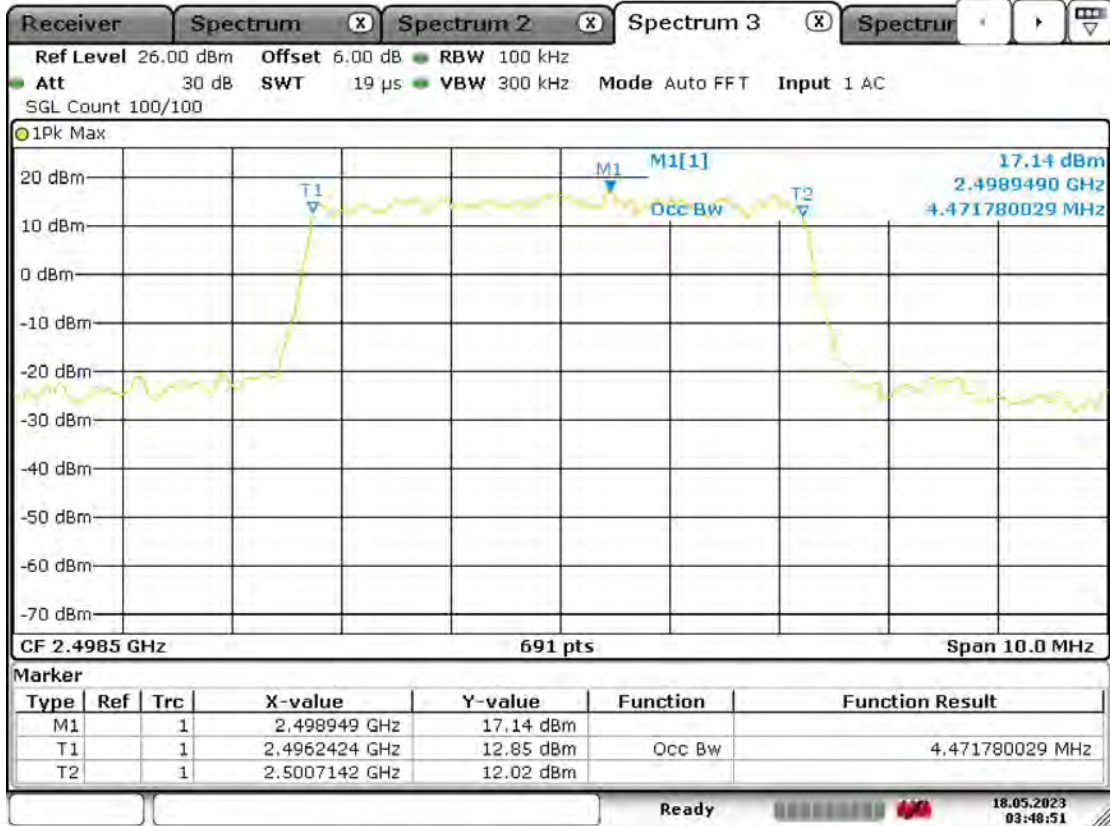




BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-5MHz-16QAM-39675-25RB#0



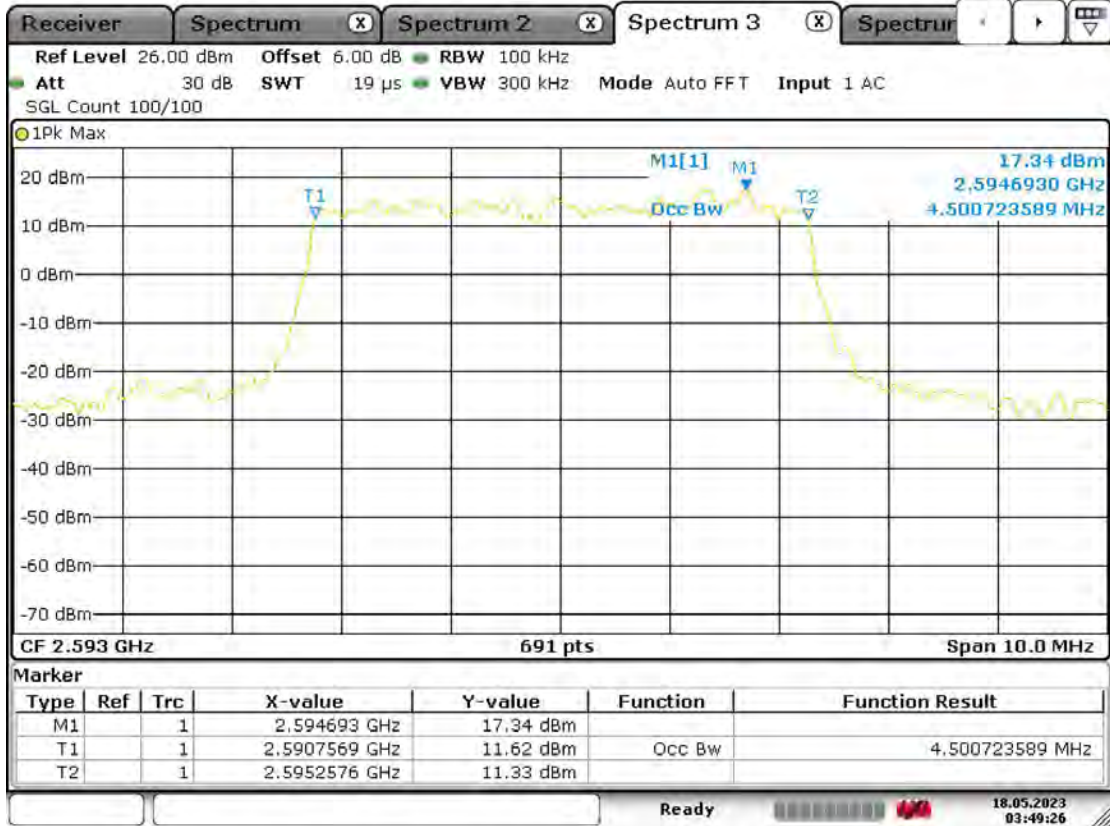
Date: 18.MAY.2023 03:48:51



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-5MHz-16QAM-40620-25RB#0

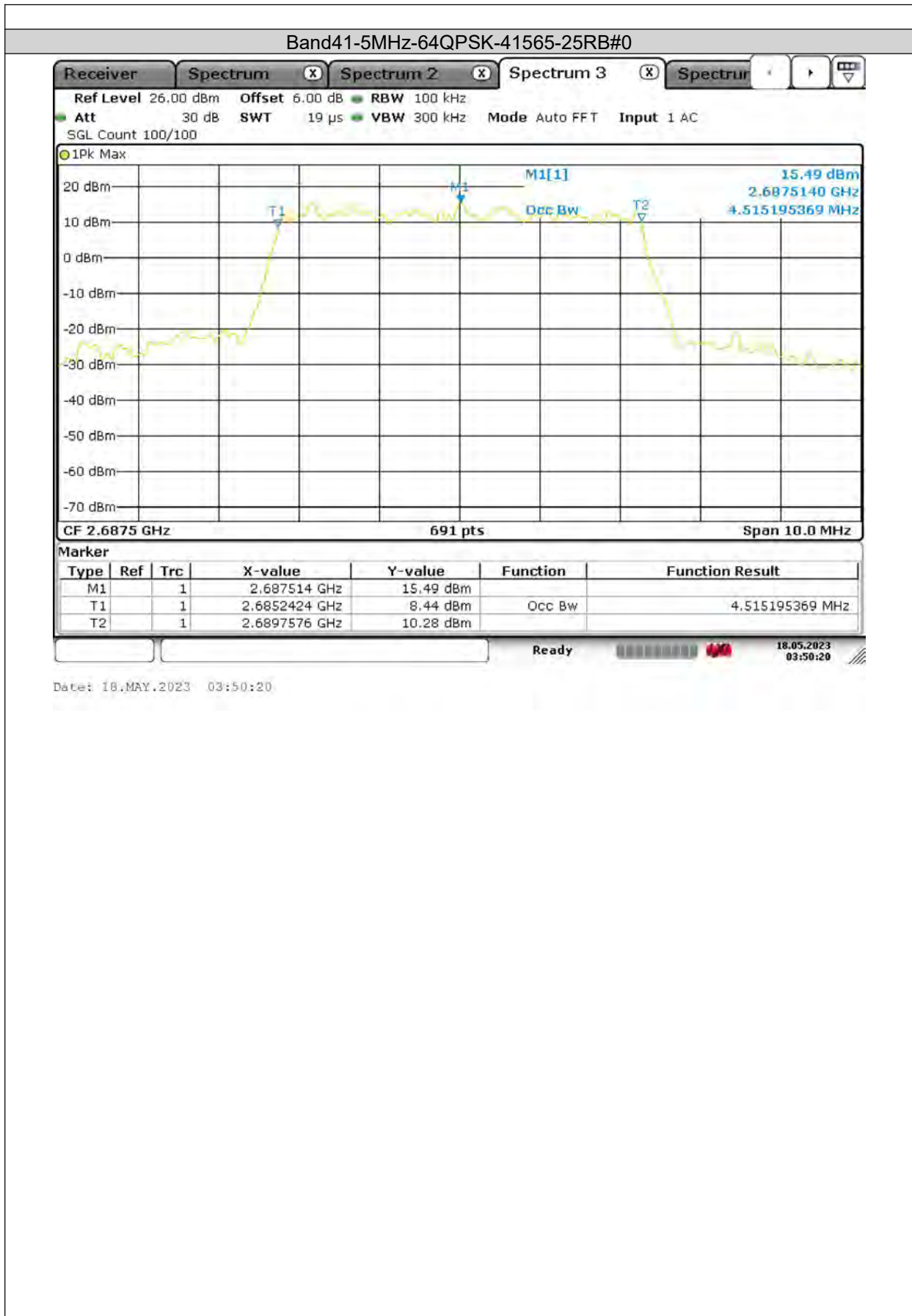


Date: 18.MAY.2023 03:49:26



BUREAU
VERITAS

Test Report No.: PSZ-NQN2303280110RF08

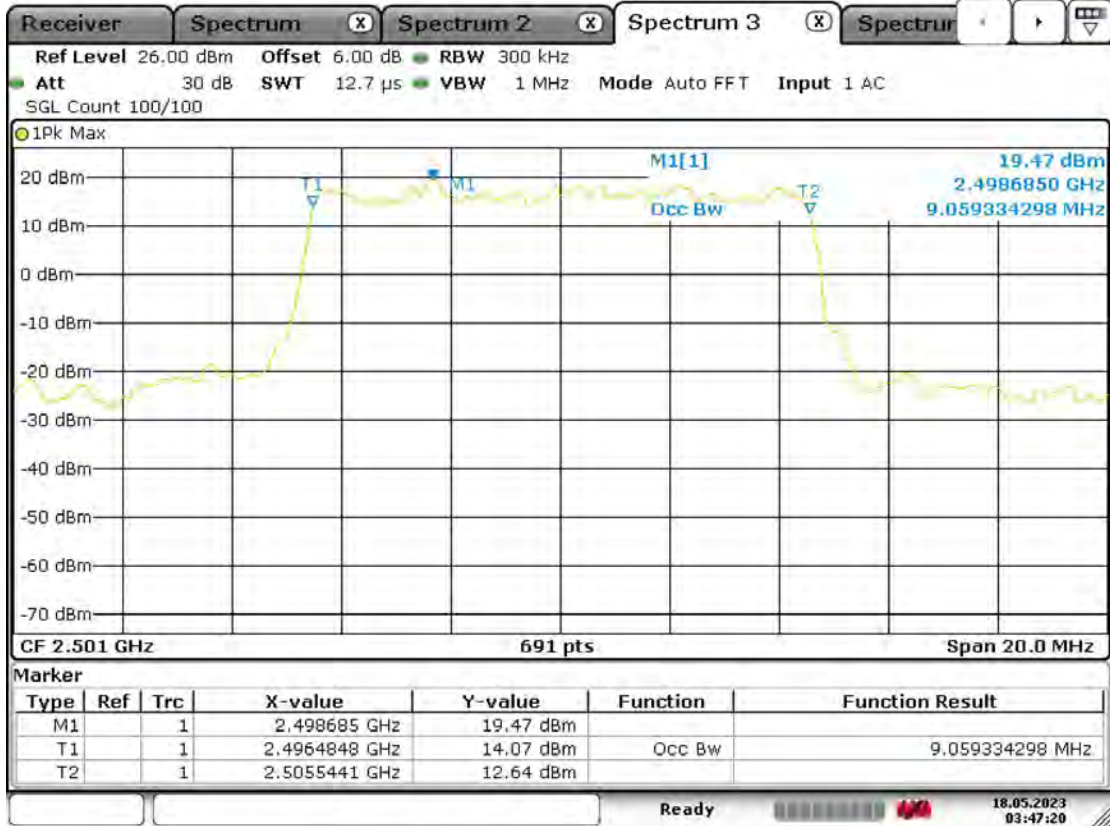




**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

Band41-10MHz-QPSK-39700-50RB#0



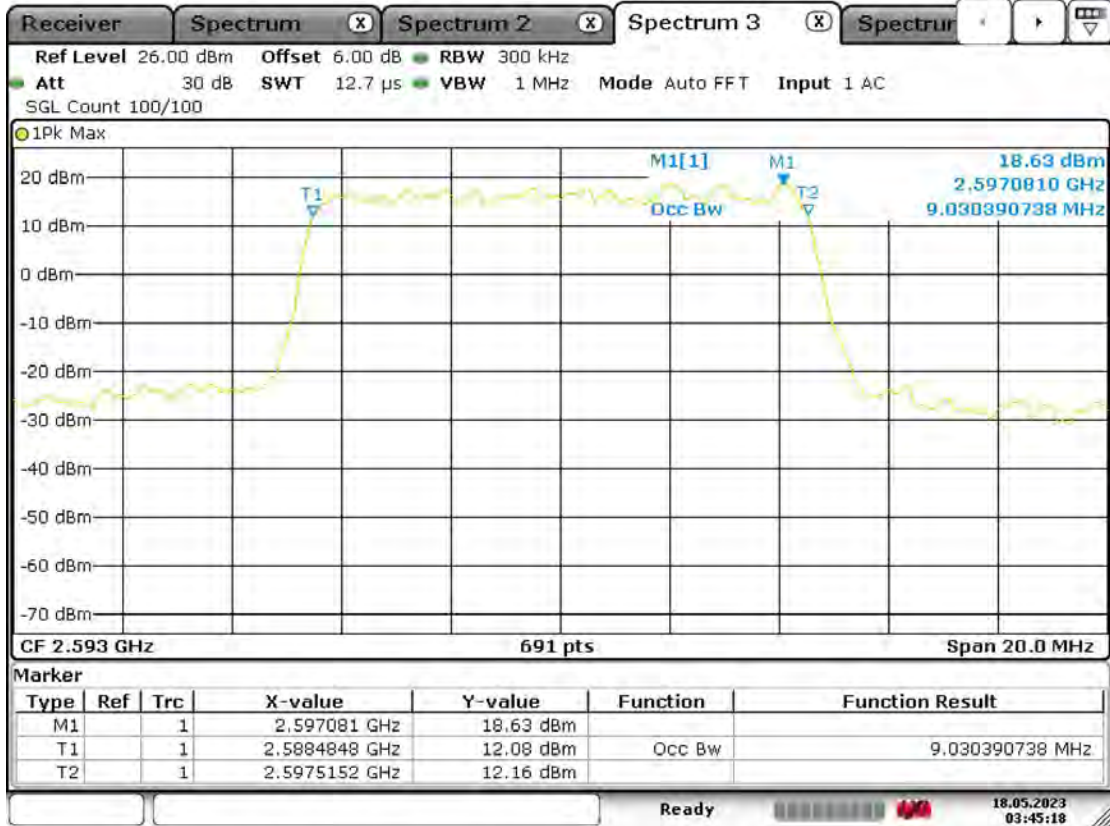
Date: 18.MAY.2023 03:47:21



BUREAU VERITAS

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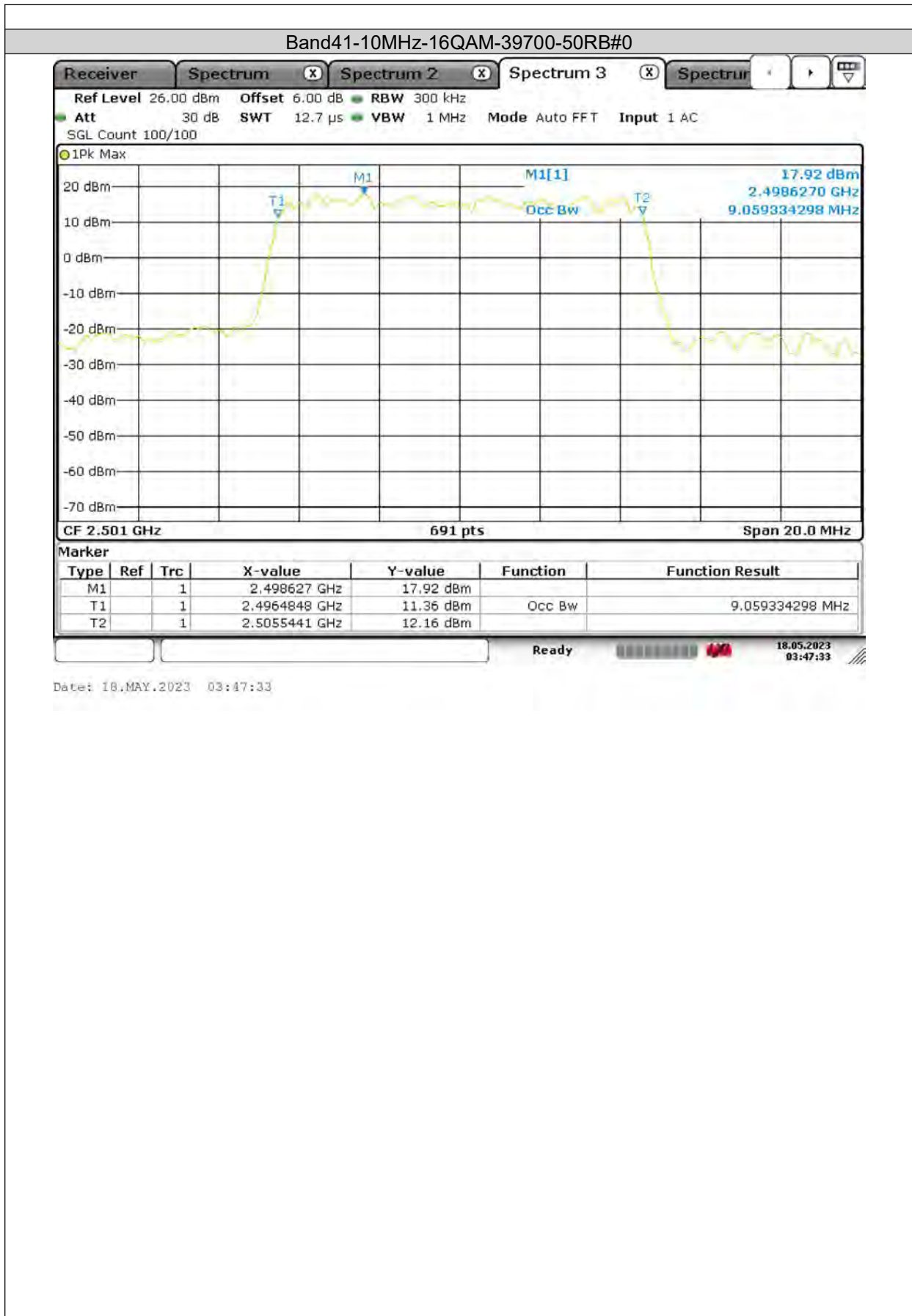


Date: 18.MAY.2023 03:45:18



**BUREAU
VERITAS**

Test Report No.: PSZ-NQN2303280110RF08

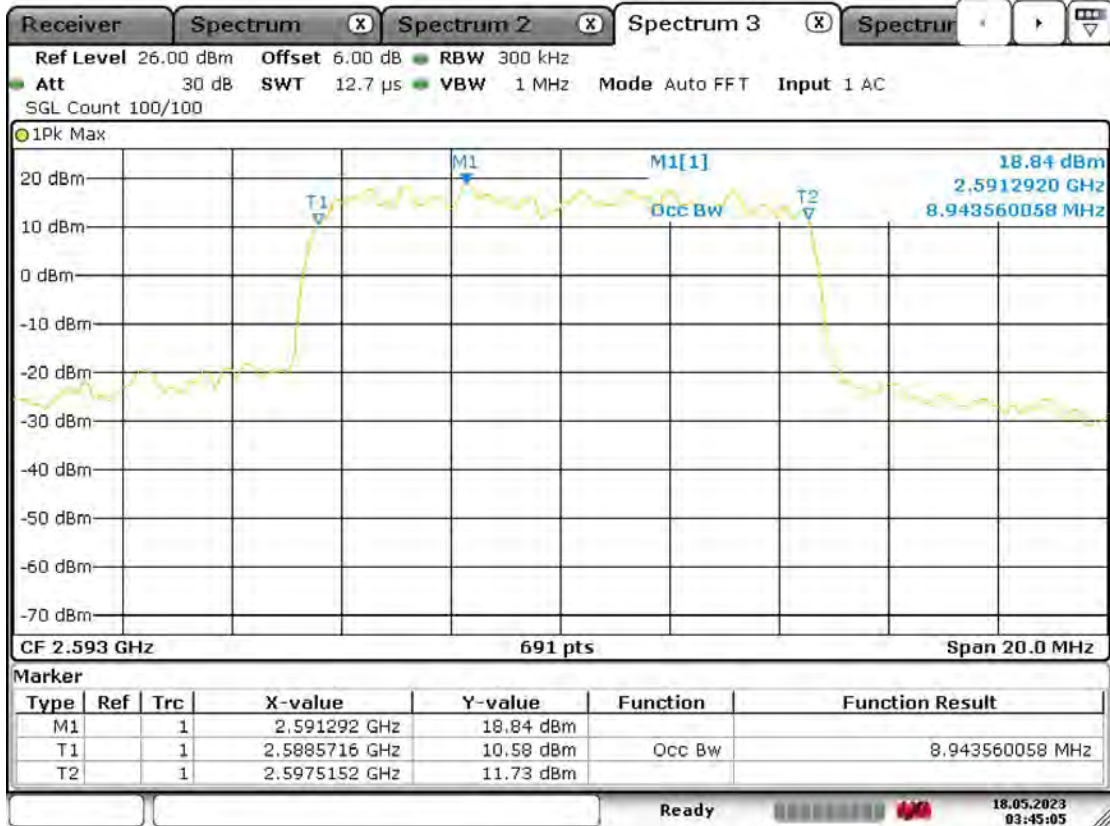




BUREAU VERITAS

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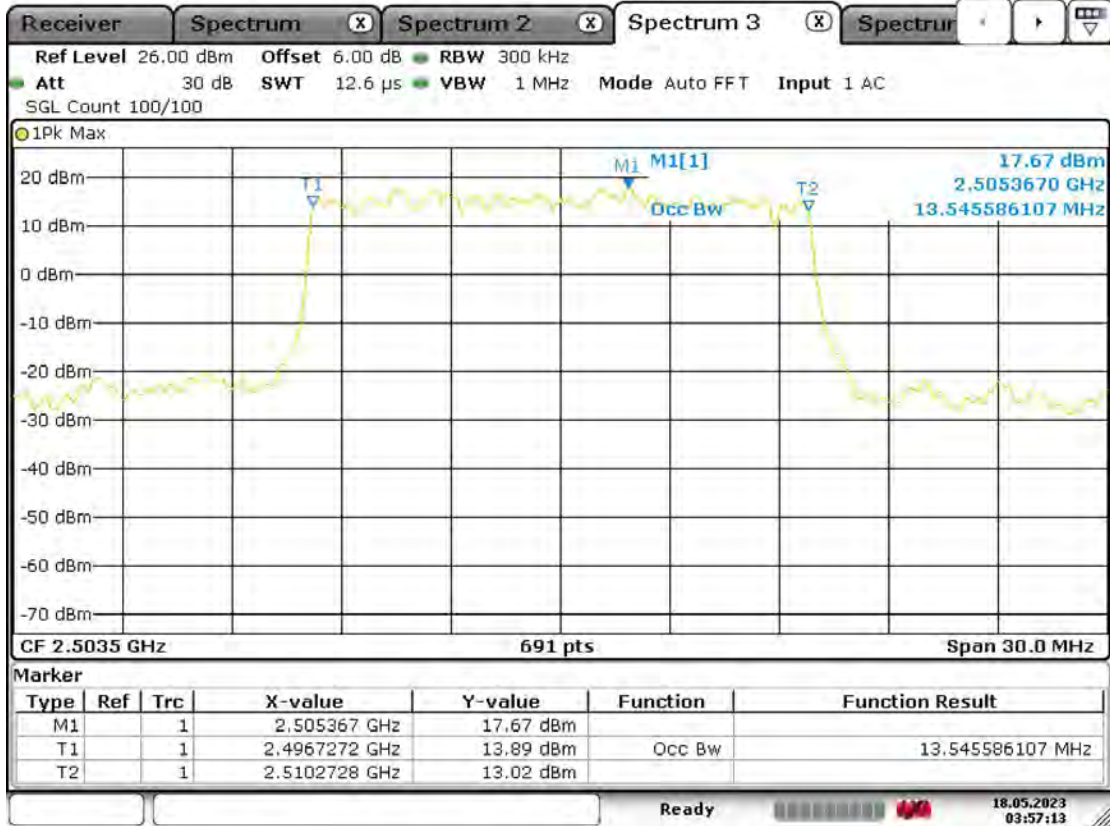
Date: 18.MAY.2023 03:45:05



BUREAU VERITAS

Test Report No.: PSZ-NQN2303280110RF08

Band41-15MHz-QPSK-39725-75RB#0



Date: 18.MAY.2023 03:57:13

