

RADIO TEST REPORT

REP064938

Date of issue: November 19, 2024

Applicant:

Andrew Wireless Systems

Industriering 10, Buchdorf 86675 - Germany

Product:

RPM-A61L1-05

Model:

7847585-01

Model variant:

None

FCC ID:

XS5-RPML2-B5

IC Registration number:

NA

Specifications:

◆ **FCC 47 CFR Part 22H**

Public Mobile Services

Lab and test locations

Company name	Nemko Spa
Address	Via del Carroccio, 4
City	Biassono
Province	MB
Postal code	20853
Country	Italy
Telephone	+39 039 220 12 01
Website	+39 039 220 12 21

Tested by	O. Frau
Signature	
Reviewed by	D. Guarnone
Review date	November 19, 2024
Signature	

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report. This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contained in this report are within Nemko Spa ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Andrew Wireless Systems
Address	Industriering 10,
City	Buchdorf
Province/State	--
Postal/Zip code	86675
Country	Germany

1.2 Test specifications

FCC 47 CFR Part 22	Public Mobile Services
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1.3 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.4 Exclusions

None

1.5 Test report revision history

Revision #	Details of changes made to test report
REP064938	Original report issued

Section 2. Summary of test results

2.1 FCC Part 22H test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§2.1049(h)	99% and 26 dB occupied bandwidth	Pass
§22.355	Frequencies	Pass
§22.913	Power and antenna height limits	Pass
§22.913(d)	Peak to average power ratio	Pass
§22.917	Conducted and radiated spurious emissions	Pass
§22.917	Frequency stability	Pass

Note: None.

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	September 23, 2024
Nemko sample ID number	PRJ0063077007

3.2 EUT information

Product name	RPM-A61L1-05
Model	7847585-01
Part Number	7847585-01
Serial number	SZRMBM24360035

3.3 Technical information

Frequency band	LTE B5: 869-894 MHz
RF power Max (W), Conducted	max Port 1 = 22.9 dBm (0.19 W) – max Port 2 = 22.3 dBm (0.17 W); max comb. Port 1 + Port 2 = 25.6 dBm (0.36 W) @881.5 MHz (with 5 MHz bandwidth)
Supported bandwidths:	5, 10 MHz
Type of modulation	TM1.1, TM3p1, TM3p1a, TM3p3 (QPSK, 16QAM, 64QAM, 256QAM)
Power requirements	48 Vdc
Antenna information	The EUT uses a unique antenna coupling/ non-detachable antenna to the intentional radiator.
Antenna gain	4.8 dBi

3.4 Product description and theory of operation

The radio unit (RU) is one of the components to configure the 4G RAN mobile communication system.

3.5 EUT exercise details

A laptop computer was used to send test commands to EUT to force it to transmit the appropriate signal. Unit transmit the selected signal at full power. The unit was tested using a conducted port. The antenna installation shall be done by professionals, and they are not within the scope of the tests evaluated on this document.

3.6 EUT setup diagram

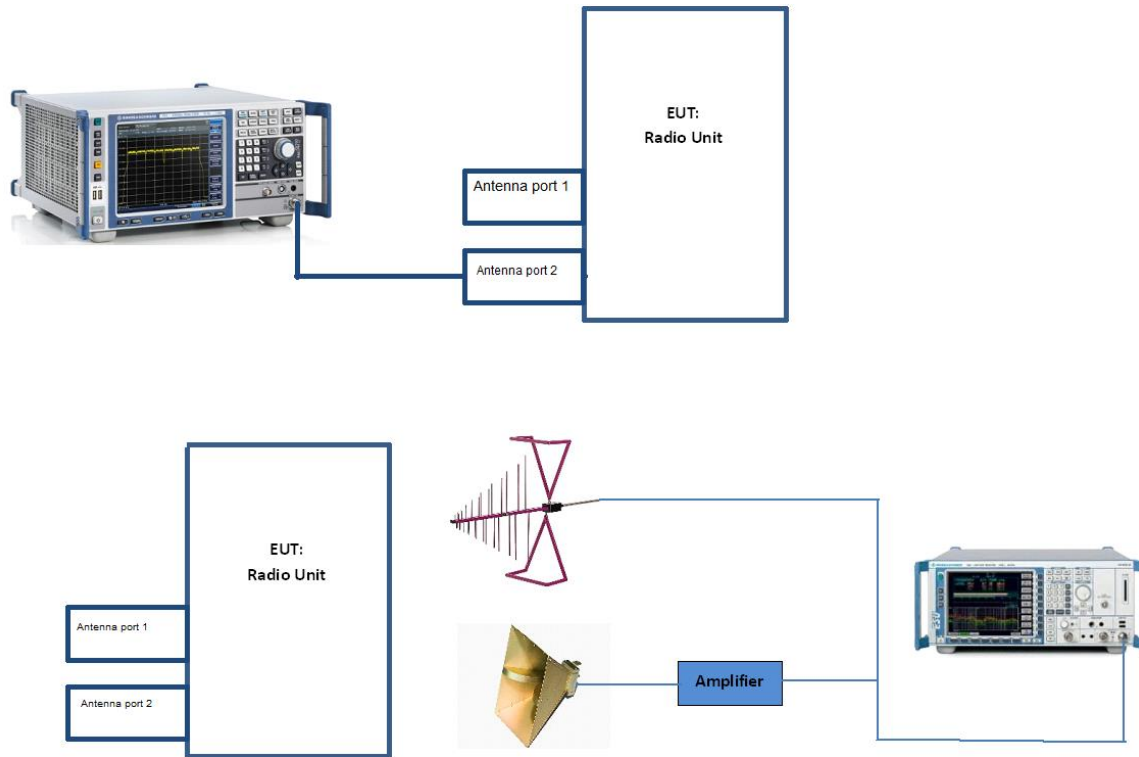


Figure 3.6-1: Setup diagram

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	15 °C – 35 °C
Relative humidity	20 % – 75 %
Air pressure	86 kPa (860 mbar) – 106 kPa (1060 mbar)

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

The following instruments are used to monitor the environmental conditions:

Equipment	Manufacturer	Model no.	Asset no.	Cal date	Next cal.
Thermo-hygrometer data loggers	Testo	175-H2	20012380/305	2022-12	2024-12
Thermo-hygrometer data loggers	Testo	175-H2	38203337/703	2022-12	2024-12
Barometer	Castle	GPB 3300	072015	2024-04	2025-04

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

The measurement uncertainty was calculated for each test and quantity listed in this test report, according to CISPR 16-4-2, ETSI TR 100 028-1, ETSI TR 100 028-2 and other specific test standards and is documented in Nemko Spa working manuals WML1002 and WML0078.

The assessment of conformity for each test performed on the equipment is performed not taking into account the measurement uncertainty. The two following possible verdicts are stated in the report:

P (Pass) - The measured values of the equipment respect the specification limit at the points tested. The specific risk of false accept is up to 50% when the measured result is close to the limit.

F (Fail) - One or more measured values of the equipment do not respect the specification limit at the points tested. The specific risk of false reject is up to 50% when the measured result is close to the limit.

Hereafter Nemko's measurement uncertainties are reported:

EUT	Type	Test	Range	Measurement Uncertainty	Notes
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)
		Carrier power RF Output Power	0.009 MHz ÷ 30 MHz	1.1 dB	(1)
			30 MHz ÷ 18 GHz	1.5 dB	(1)
			18 MHz ÷ 40 GHz	3.0 dB	(1)
			40 MHz ÷ 140 GHz	5.0 dB	(1)
			Adjacent channel power	1 MHz ÷ 18 GHz	1.4 dB
		Conducted spurious emissions	0.009 MHz ÷ 18 GHz	3.0 dB	(1)
			18 GHz ÷ 40 GHz	4.2 dB	(1)
			40 GHz ÷ 220 GHz	6.0 dB	(1)
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)
		Dwell time	-	3%	(1)
	Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)	
	Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
	Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
Radiated	Radiated spurious emissions	0.009 MHz ÷ 26.5 GHz	6.0 dB	(1)	
		26.5 GHz ÷ 66 GHz	8.0 dB	(1)	
		66 GHz ÷ 220 GHz	10 dB	(1)	
		Effective radiated power transmitter	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)

NOTES:

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2024-01	2025-01
EMI Receiver	Rohde & Schwarz	ESU8	100202	2024-09	2025-09
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-08	2025-08
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263254	2024-05	2025-05
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263397	2024-09	2025-09
Climatic Chamber	MSL	EC500DA	15022	2024-01	2025-01
Antenna Trilog 25MHz - 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025	2024-07	2027-07
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-09	2027-09
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-04	2026-04
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2024-01	2025-01
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01	2024-04	2025-04
Semi-anechoic chamber	Nemko S.p.a.	10m semi-anechoic chamber	530	2023-09	2025-09
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
Semi-anechoic chamber	Comtest	3m SAC	1711-150	2024-09	2026-09
Controller	Maturo	FCU3.0	10237	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	3466.01	NCR	NCR
Turntable	Maturo	TT4.0	-	NCR	NCR
Pyramidal Horn Antenna 40-60 GHz	Sage	SAR-2507-19VF-R2	15715-01	2024-06	2027-06
Harmonic Mixer	Radiometer Physics	FS-Z60	100988	2024-01	2027-01
Cable set	Rosenberger	ST.ALO-02	1.650	2024-10	2025-10
Cable set	Rosenberger and Huber + Suhner	RE01+RE02	1.654+1.655	2024-09	2025-09
Cable set	Rosenberger+Huber-Suhner	RE03+RE04	1.510+1.511	2024-09	2025-09

Section 8. Testing data

8.1 FCC §2.1033(c)(4) Modulation type

8.1.1 Definitions and limits

(c) Applications for equipment other than that operating under parts 15, 11 and 18 of this chapter shall be accompanied by a technical report containing the following information:

(4) Type or types of emission

8.1.2 Test summary

Test date	October 21, 2024	Temperature	22 °C
Test engineer	O. Frau	Air pressure	1001 mbar
Verdict	Pass	Relative humidity	62 %

8.1.3 Observations, settings and special notes

None

8.1.4 Test data

Band B5:

Bandwidth (MHz)	Emission type
5	TM1.1
5	TM3p1
5	TM3p1a
5	TM3p3
10	TM1.1
10	TM3p1
10	TM3p1a
10	TM3p3

Table Error. Per applicare Heading 2 al testo da visualizzare in questo punto, utilizzare la scheda Home.-1: Types of emission

8.2 FCC §2.1049(h) 99% Occupied Bandwidth and frequency ranges

8.2.1 Definitions and limits

§2.1049 (h) Transmitters employing digital modulation techniques—when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the use.

8.2.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 25, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.2.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.2.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.2.5 Test data

Band B5: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM1.1	871.5	4.49
B5	5 MHz	TM1.1	881.5	4.50
B5	5 MHz	TM1.1	891.5	4.50
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM3p1	871.5	4.52
B5	5 MHz	TM3p1	881.5	4.51
B5	5 MHz	TM3p1	891.5	4.50
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM3p1a	871.5	4.49
B5	5 MHz	TM3p1a	881.5	4.49
B5	5 MHz	TM3p1a	891.5	4.49
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM3p3	871.5	4.50
B5	5 MHz	TM3p3	881.5	4.50
B5	5 MHz	TM3p3	891.5	4.50
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM1.1	874.0	8.97
B5	10 MHz	TM1.1	881.5	8.97
B5	10 MHz	TM1.1	889.0	8.97
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p1	874.0	8.97
B5	10 MHz	TM3p1	881.5	8.97
B5	10 MHz	TM3p1	889.0	8.97
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p1a	874.0	8.98
B5	10 MHz	TM3p1a	881.5	8.98
B5	10 MHz	TM3p1a	889.0	8.98
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p3	874.0	8.97
B5	10 MHz	TM3p3	881.5	8.97
B5	10 MHz	TM3p3	889.0	8.97

Band B5: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM1.1	871.5	4.49
B5	5 MHz	TM1.1	881.5	4.50
B5	5 MHz	TM1.1	891.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM3p1	871.5	4.50
B5	5 MHz	TM3p1	881.5	4.50
B5	5 MHz	TM3p1	891.5	4.51

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM3p1a	871.5	4.49
B5	5 MHz	TM3p1a	881.5	4.49
B5	5 MHz	TM3p1a	891.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	5 MHz	TM3p3	871.5	4.49
B5	5 MHz	TM3p3	881.5	4.50
B5	5 MHz	TM3p3	891.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM1.1	874.0	8.96
B5	10 MHz	TM1.1	881.5	8.97
B5	10 MHz	TM1.1	889.0	8.97

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p1	874.0	8.97
B5	10 MHz	TM3p1	881.5	8.97
B5	10 MHz	TM3p1	889.0	8.97

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p1a	874.0	8.98
B5	10 MHz	TM3p1a	881.5	8.98
B5	10 MHz	TM3p1a	889.0	8.98

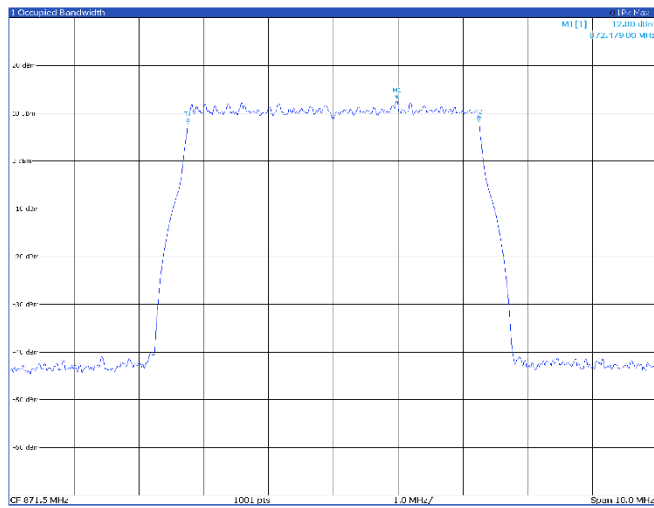
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p3	874.0	8.97
B5	10 MHz	TM3p3	881.5	8.98
B5	10 MHz	TM3p3	889.0	8.98

Antenna port 1

Band B5

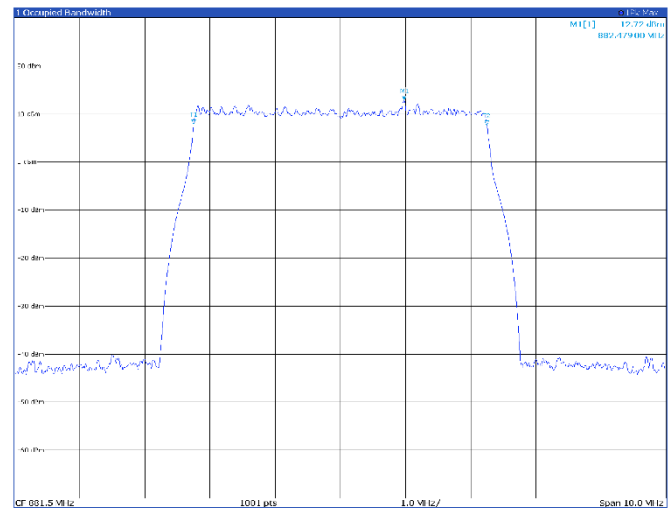
5 MHz

TM1.1, 5 MHz, low channel



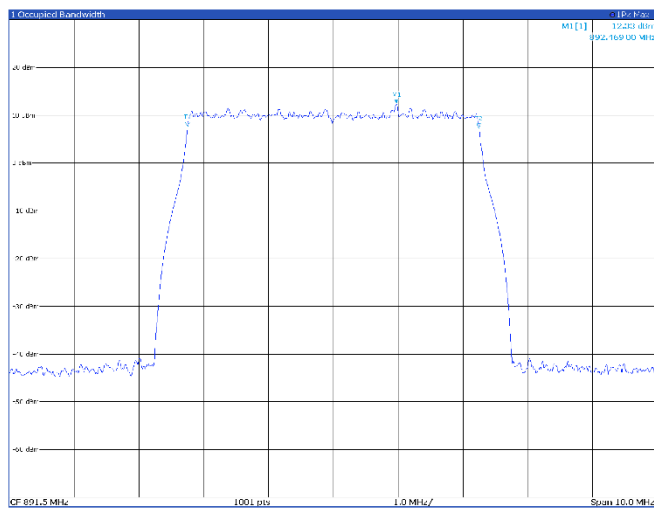
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		872.479 MHz	12.60 dBm	Occupied Bandwidth	4.489 418 941 MHz
M1	1		872.479 MHz	12.60 dBm	Occupied Bandwidth	4.489 418 941 MHz
M1	1		872.479 MHz	12.60 dBm	Occupied Bandwidth	4.489 418 941 MHz

TM1.1, 5 MHz, mid channel



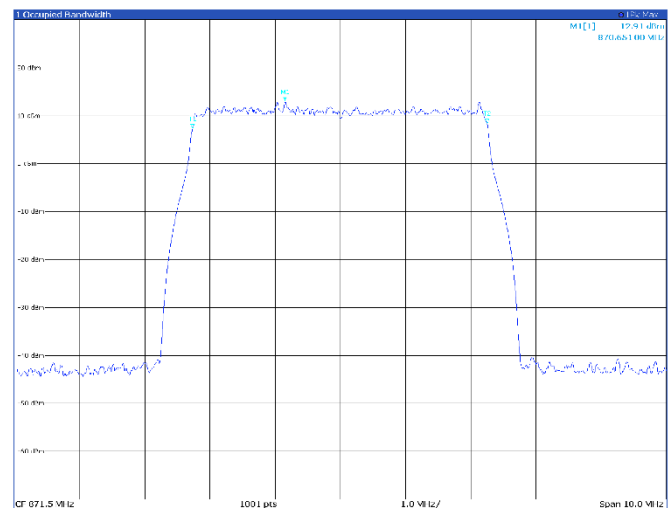
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		882.479 MHz	12.72 dBm	Occupied Bandwidth	4.495 136 419 MHz
M1	1		882.479 MHz	12.72 dBm	Occupied Bandwidth	4.495 136 419 MHz
M1	1		882.479 MHz	12.72 dBm	Occupied Bandwidth	4.495 136 419 MHz

TM1.1, 5 MHz, high channel



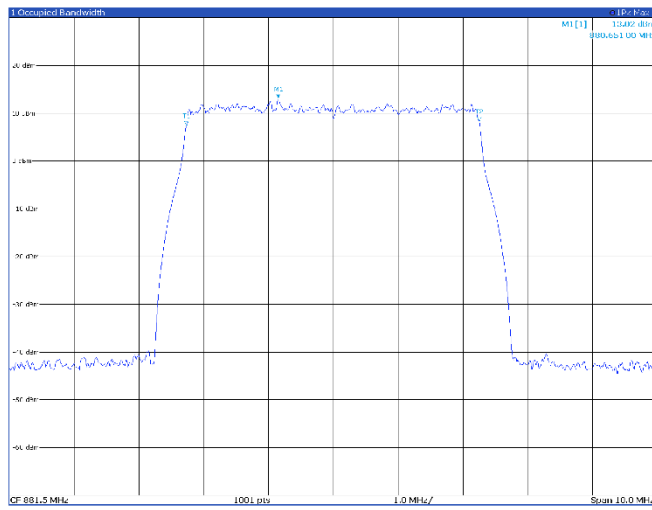
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		892.469 MHz	12.33 dBm	Occupied Bandwidth	4.496 167 22 MHz
M1	1		892.469 MHz	12.33 dBm	Occupied Bandwidth	4.496 167 22 MHz
M1	1		892.469 MHz	12.33 dBm	Occupied Bandwidth	4.496 167 22 MHz

TM3p1, 5 MHz, low channel



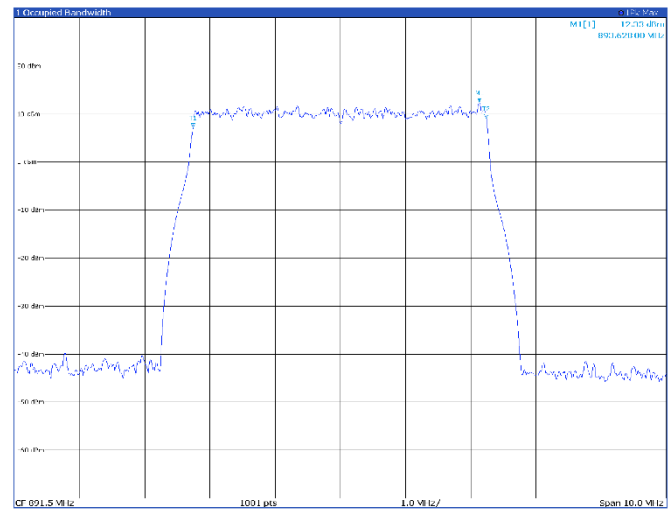
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		870.651 MHz	12.91 dBm	Occupied Bandwidth	4.515 476 339 MHz
M1	1		870.651 MHz	12.91 dBm	Occupied Bandwidth	4.515 476 339 MHz
M1	1		870.651 MHz	12.91 dBm	Occupied Bandwidth	4.515 476 339 MHz

TM3p1, 5 MHz, mid channel



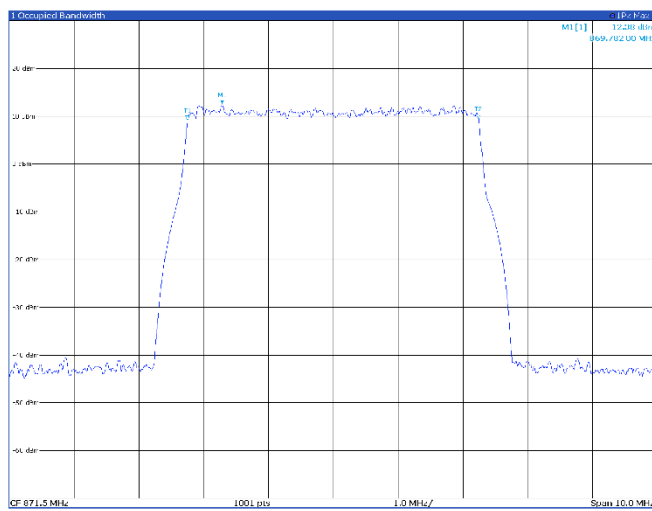
Type	Ref	Trc	X Value	Y Value	Occ. Sw	Function	Function Result
M1	1		880.651 MHz	13.02 dBm	Occ. Sw		4.513 113 24 MHz
M1	1		880.651 MHz	13.02 dBm	Occ. Sw	Occ. Sw Control	880.651 MHz
M1	1		880.651 MHz	13.02 dBm	Occ. Sw	Occ. Sw Control	880.651 MHz

TM3p1, 5 MHz, high channel



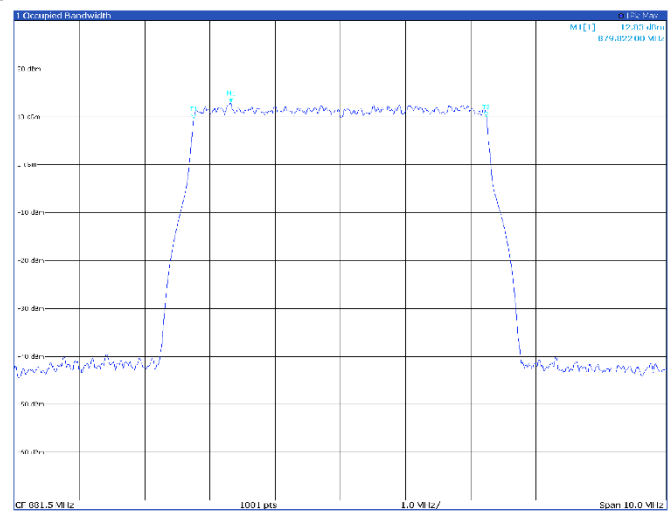
Type	Ref	Trc	X Value	Y Value	Occ. Sw	Function	Function Result
M1	1		893.628 MHz	12.33 dBm	Occ. Sw		4.497 660 033 MHz
M1	1		893.628 MHz	12.33 dBm	Occ. Sw	Occ. Sw Control	893.628 MHz
M1	1		893.628 MHz	12.33 dBm	Occ. Sw	Occ. Sw Control	893.628 MHz

TM3p1a, 5 MHz, low channel



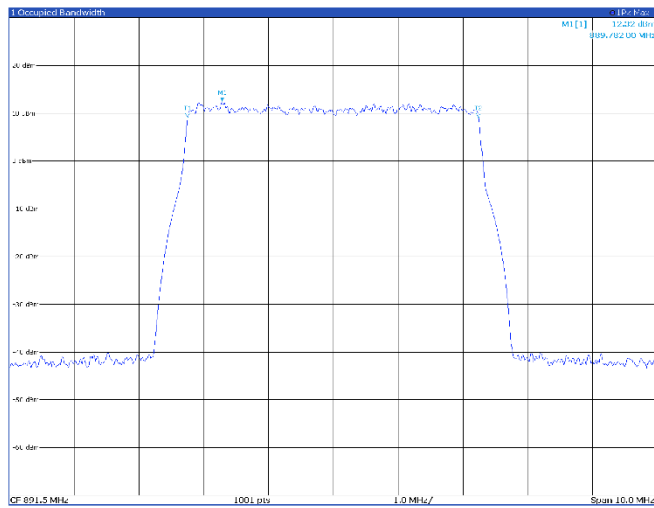
Type	Ref	Trc	X Value	Y Value	Occ. Sw	Function	Function Result
M1	1		869.782 MHz	12.38 dBm	Occ. Sw		4.487 744 323 MHz
M1	1		869.782 MHz	12.38 dBm	Occ. Sw	Occ. Sw Control	869.782 MHz
M1	1		869.782 MHz	12.38 dBm	Occ. Sw	Occ. Sw Control	869.782 MHz

TM3p1a, 5 MHz, mid channel



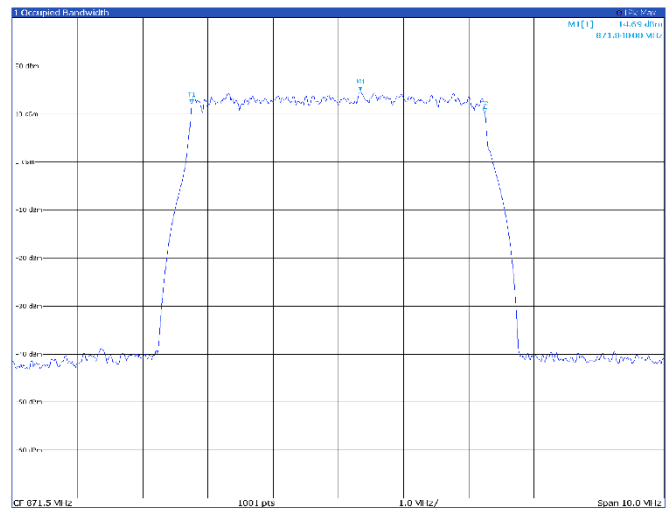
Type	Ref	Trc	X Value	Y Value	Occ. Sw	Function	Function Result
M1	1		879.822 MHz	12.83 dBm	Occ. Sw		4.486 426 259 MHz
M1	1		879.822 MHz	12.83 dBm	Occ. Sw	Occ. Sw Control	879.822 MHz
M1	1		879.822 MHz	12.83 dBm	Occ. Sw	Occ. Sw Control	879.822 MHz

TM3p1a, 5 MHz, high channel



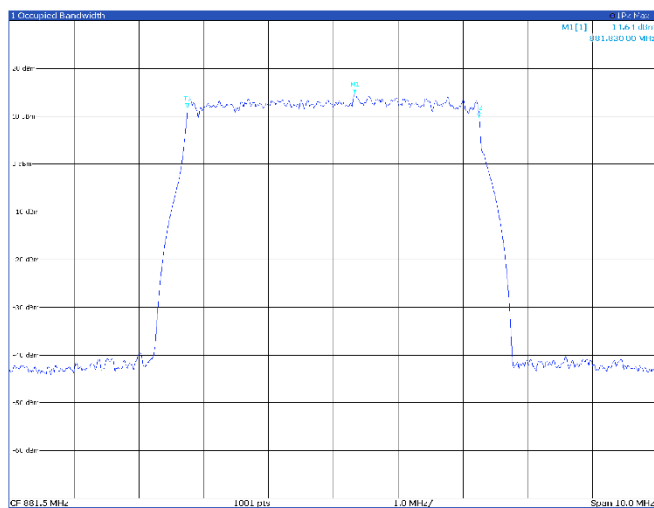
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		889.782 MHz	12.32 dBm	Occ Sw	4.485 059 557 MHz
F1	1		889.782 MHz	12.32 dBm	Occ Sw	889.782 MHz
F2	1		889.782 MHz	12.32 dBm	Occ Sw	889.782 MHz

TM3p3, 5 MHz, low channel



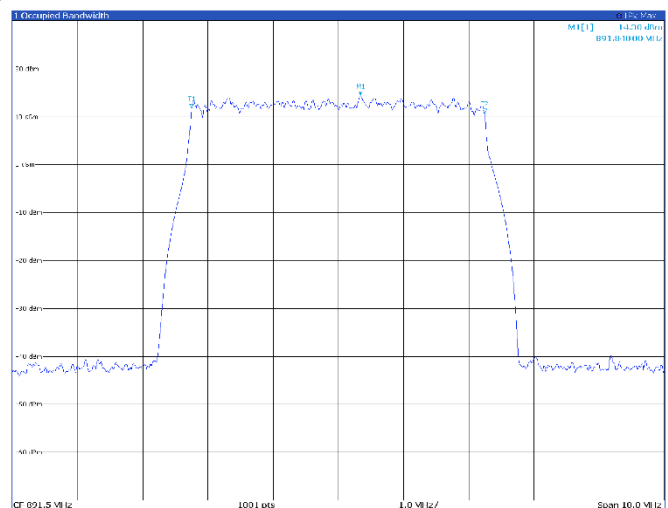
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		871.84 MHz	14.69 dBm	Occ Sw	4.496 515 733 MHz
F1	1		871.84 MHz	14.69 dBm	Occ Sw	871.84 MHz
F2	1		871.84 MHz	14.69 dBm	Occ Sw	871.84 MHz

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		891.83 MHz	14.64 dBm	Occ Sw	4.495 054 388 MHz
F1	1		891.83 MHz	14.64 dBm	Occ Sw	891.83 MHz
F2	1		891.83 MHz	14.64 dBm	Occ Sw	891.83 MHz

TM3p3, 5 MHz, high channel

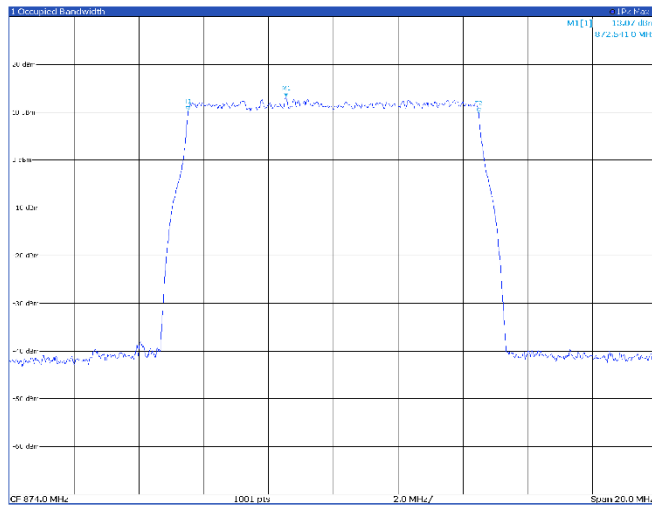


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		891.83 MHz	14.30 dBm	Occ Sw	4.495 107 834 MHz
F1	1		891.83 MHz	14.30 dBm	Occ Sw	891.83 MHz
F2	1		891.83 MHz	14.30 dBm	Occ Sw	891.83 MHz

Band B5

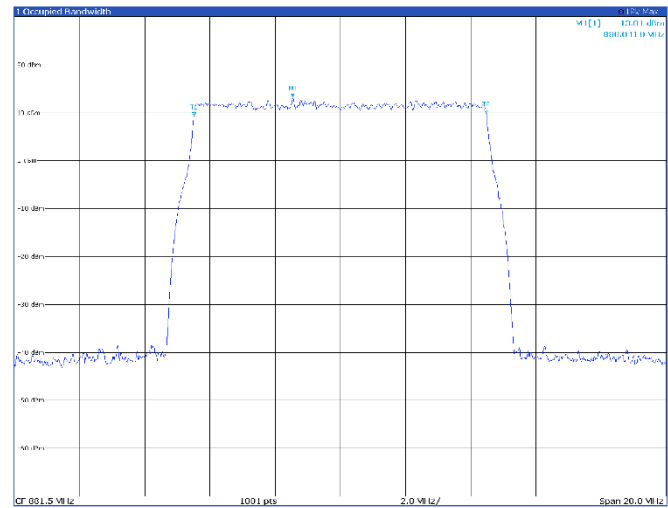
10 MHz

TM1.1, 10 MHz, low channel



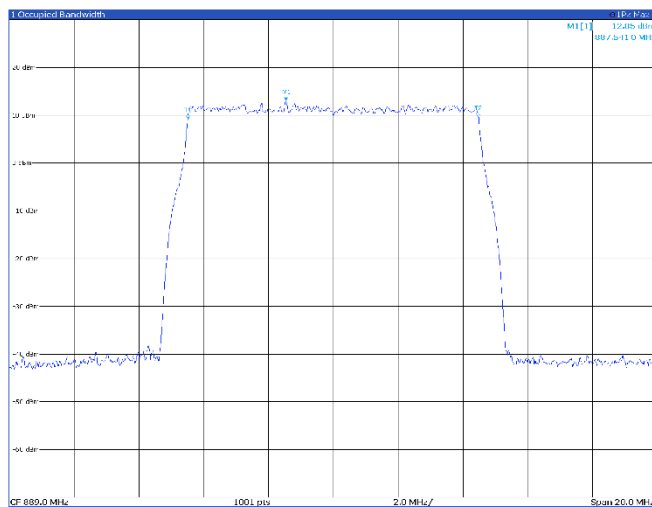
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		872.541 MHz	13.07 dBm		
F1	1		869.5146 MHz	10.22 dBm	Occ. BW Channel	8.958 248 04 MHz
F2	1		875.4876 MHz	9.41 dBm	Occ. BW Channel	8.958 248 04 MHz

TM1.1, 10 MHz, mid channel



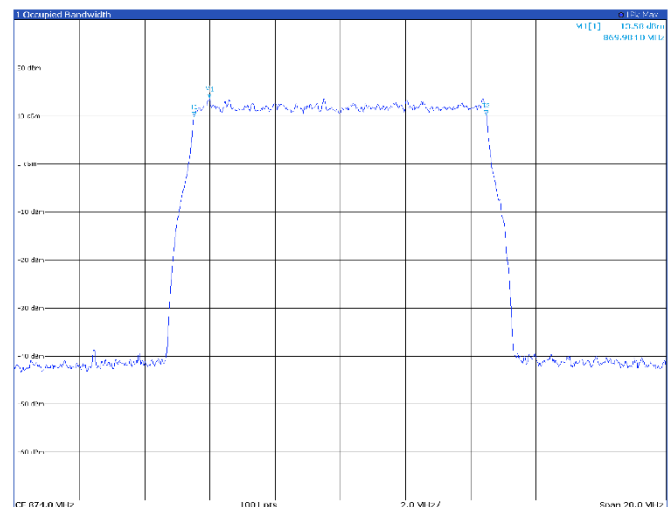
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		880.041 MHz	13.01 dBm		
F1	1		877.5120 MHz	9.11 dBm	Occ. BW Channel	8.966 551 671 MHz
F2	1		882.5799 MHz	9.12 dBm	Occ. BW Channel	8.966 551 671 MHz

TM1.1, 10 MHz, high channel



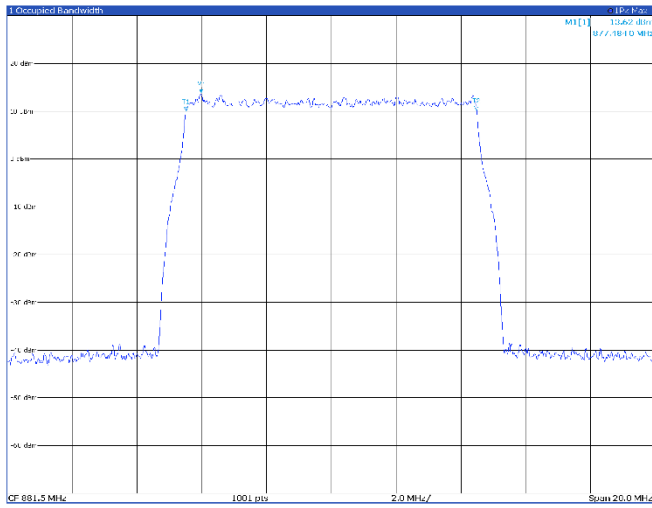
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		887.541 MHz	12.85 dBm		
F1	1		884.5102 MHz	9.06 dBm	Occ. BW Channel	8.968 235 586 MHz
F2	1		891.4896 MHz	9.41 dBm	Occ. BW Channel	8.968 235 586 MHz

TM3p1, 10 MHz, low channel



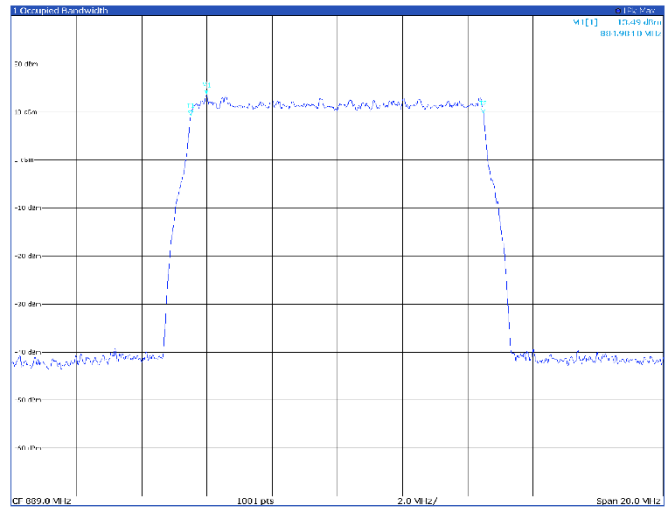
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		869.984 MHz	13.58 dBm		
F1	1		866.9530 MHz	9.12 dBm	Occ. BW Channel	8.972 218 985 MHz
F2	1		873.4811 MHz	10.15 dBm	Occ. BW Channel	8.972 218 985 MHz

TM3p1, 10 MHz, mid channel



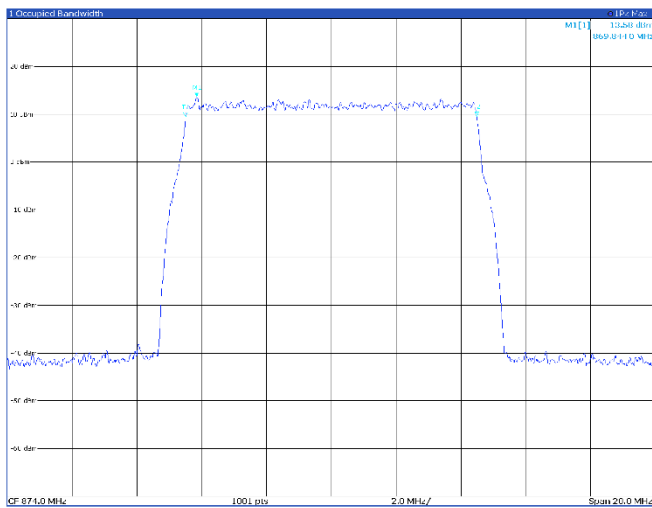
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		877.484 MHz	13.62 dBm	Occ 5w	8.972 734 711 MHz
M1	1		877.484 MHz	13.62 dBm	Occ 5w Channel	8.972 734 711 MHz
M1	1		877.484 MHz	13.62 dBm	Occ 5w Channel	8.972 734 711 MHz

TM3p1, 10 MHz, high channel



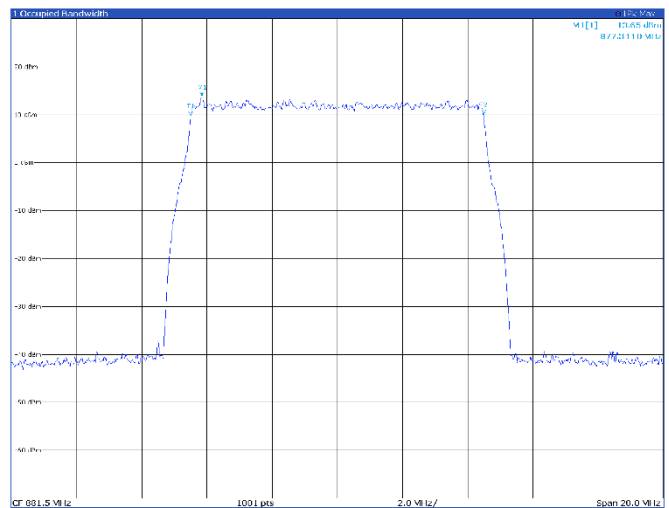
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		884.984 MHz	13.49 dBm	Occ 5w	8.971 640 45 MHz
M1	1		884.984 MHz	13.49 dBm	Occ 5w Channel	8.971 640 45 MHz
M1	1		884.984 MHz	13.49 dBm	Occ 5w Channel	8.971 640 45 MHz

TM3p1a, 10 MHz, low channel



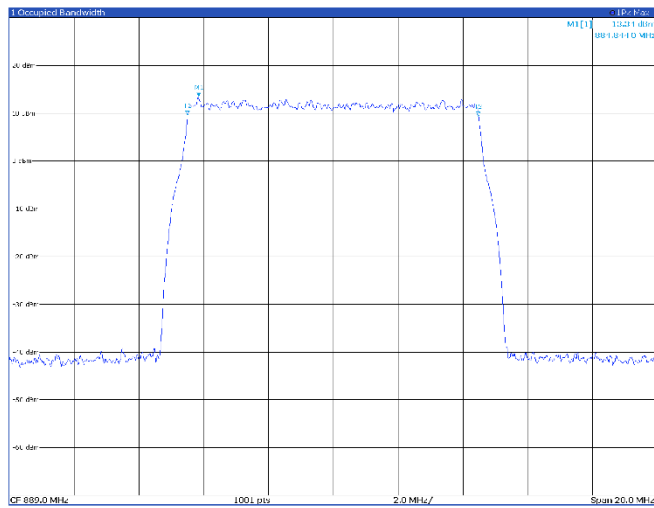
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		869.844 MHz	13.58 dBm	Occ 5w	8.978 801 872 MHz
M1	1		869.844 MHz	13.58 dBm	Occ 5w Channel	8.978 801 872 MHz
M1	1		869.844 MHz	13.58 dBm	Occ 5w Channel	8.978 801 872 MHz

TM3p1a, 10 MHz, mid channel



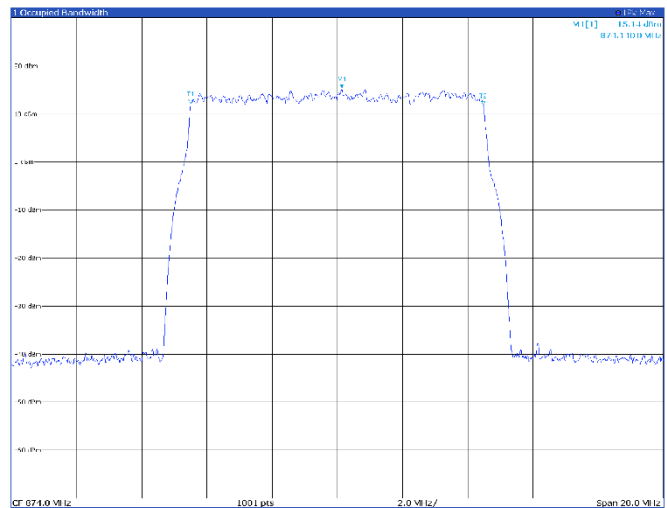
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		877.344 MHz	13.65 dBm	Occ 5w	8.977 694 058 MHz
M1	1		877.344 MHz	13.65 dBm	Occ 5w Channel	8.977 694 058 MHz
M1	1		877.344 MHz	13.65 dBm	Occ 5w Channel	8.977 694 058 MHz

TM3p1a, 10 MHz, high channel



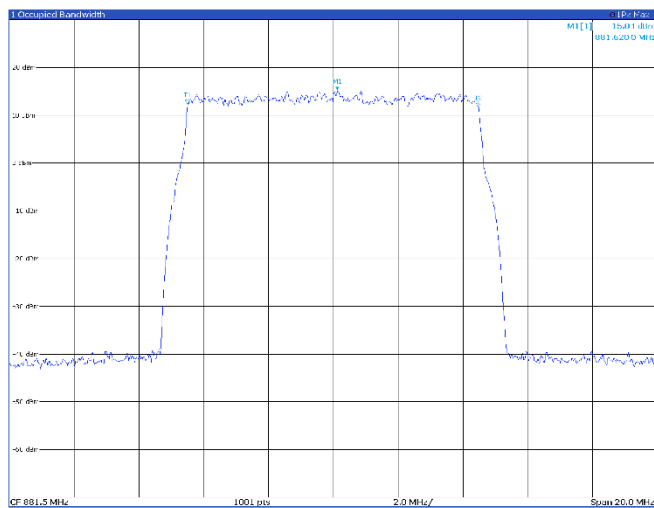
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		884.844 MHz	13.34 dBm		Occ Ser	8.979 045 18 MHz
P1	1		884.844 MHz	13.34 dBm		Occ Ser	8.979 045 18 MHz
P2	1		884.844 MHz	13.34 dBm		Occ Ser	8.979 045 18 MHz

TM3p3, 10 MHz, low channel



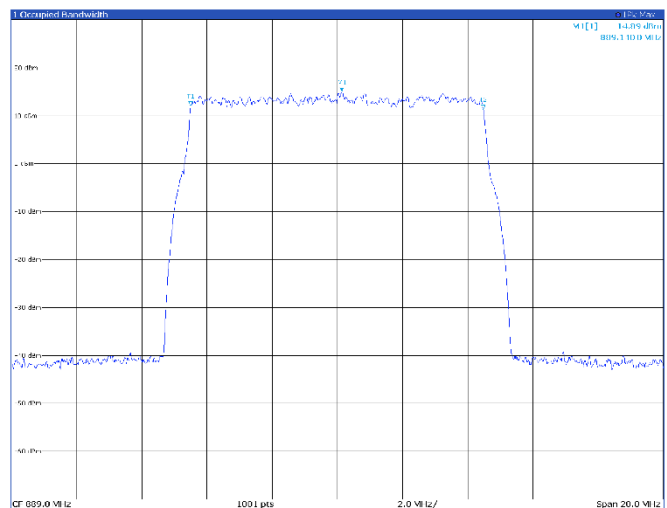
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		874.14 MHz	15.14 dBm		Occ Ser	8.974 451 38 MHz
P1	1		874.14 MHz	15.14 dBm		Occ Ser	8.974 451 38 MHz
P2	1		874.14 MHz	15.14 dBm		Occ Ser	8.974 451 38 MHz

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		881.62 MHz	15.04 dBm		Occ Ser	8.974 811 54 MHz
P1	1		881.62 MHz	15.04 dBm		Occ Ser	8.974 811 54 MHz
P2	1		881.62 MHz	15.04 dBm		Occ Ser	8.974 811 54 MHz

TM3p3, 10 MHz, high channel



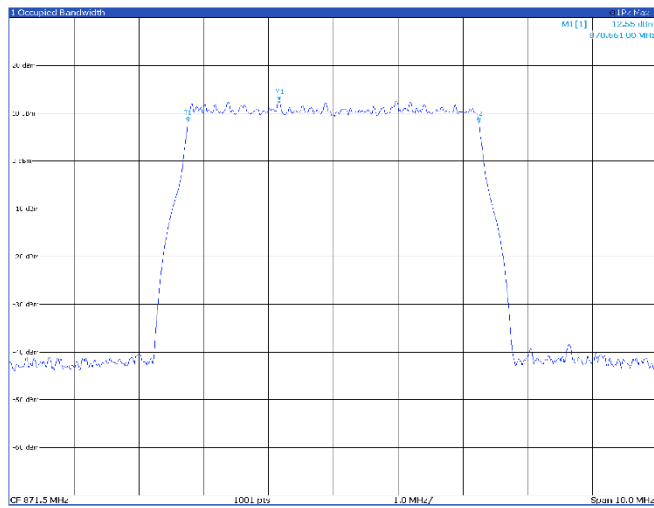
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		889.14 MHz	14.89 dBm		Occ Ser	8.973 822 419 MHz
P1	1		889.14 MHz	14.89 dBm		Occ Ser	8.973 822 419 MHz
P2	1		889.14 MHz	14.89 dBm		Occ Ser	8.973 822 419 MHz

Antenna port 2

Band B5

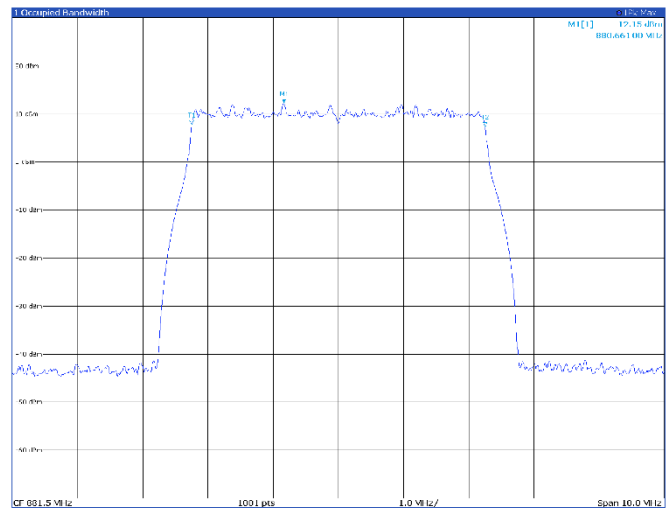
5 MHz

TM1.1, 5 MHz, low channel



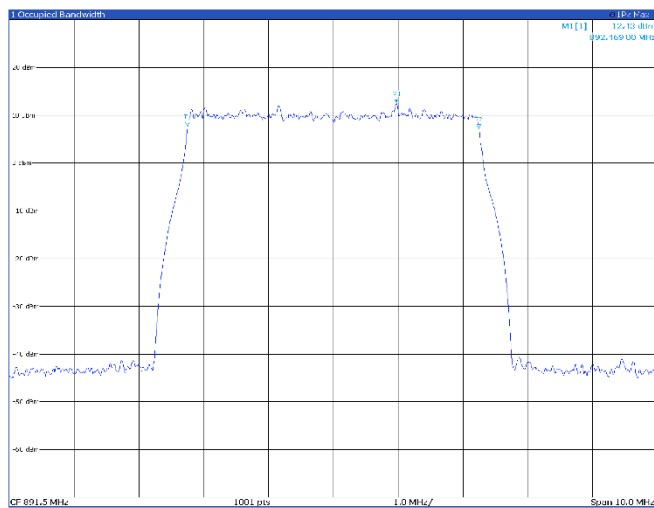
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		870.661 MHz	12.55 dBm	Occ Sw	4.490491473 MHz
P1	1		870.661 MHz	12.55 dBm	Occ Sw Control	870.42955272 MHz
P1	1		870.661 MHz	12.55 dBm	Occ Sw Freq Offset	241.63271335 MHz

TM1.1, 5 MHz, mid channel



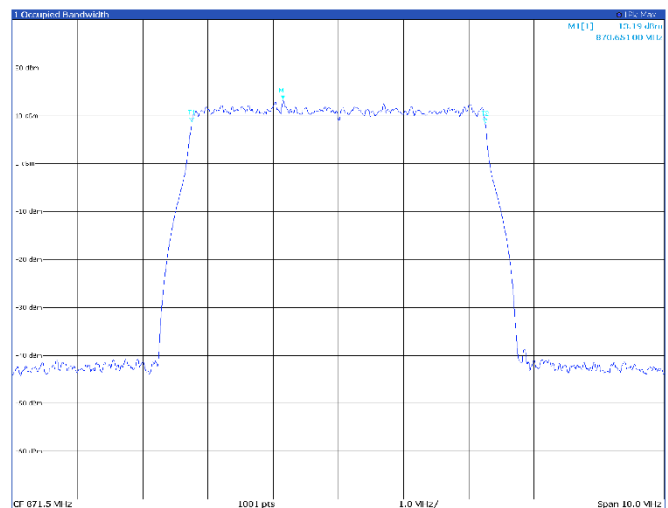
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		880.661 MHz	12.15 dBm	Occ Sw	4.497422955 MHz
P1	1		880.661 MHz	12.15 dBm	Occ Sw Control	880.49755987 MHz
P1	1		880.661 MHz	12.15 dBm	Occ Sw Freq Offset	274.11430728 MHz

TM1.1, 5 MHz, high channel



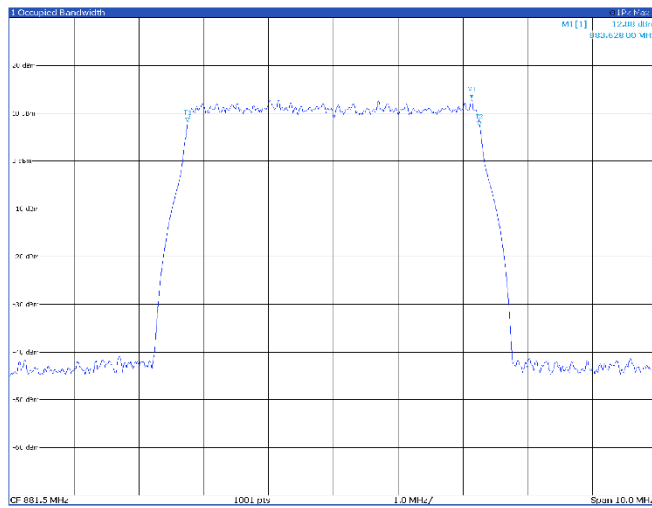
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		892.469 MHz	12.43 dBm	Occ Sw	4.497338186 MHz
P1	1		892.469 MHz	12.43 dBm	Occ Sw Control	892.46922335 MHz
P1	1		892.469 MHz	12.43 dBm	Occ Sw Freq Offset	1.346115235 MHz

TM3p1, 5 MHz, low channel



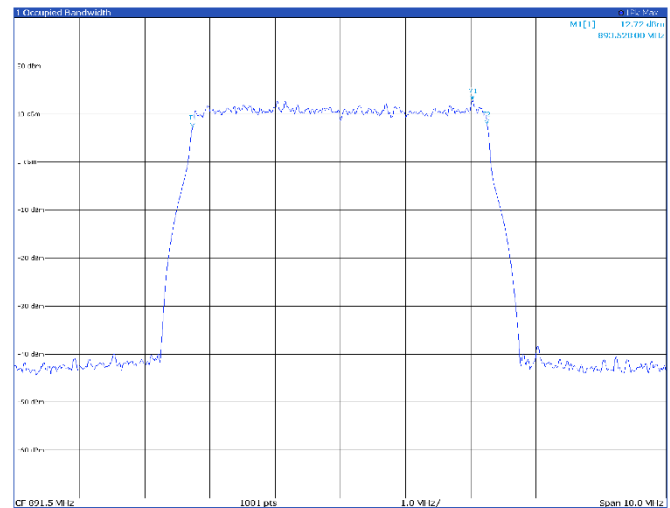
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		870.651 MHz	13.19 dBm	Occ Sw	4.500687718 MHz
P1	1		870.651 MHz	13.19 dBm	Occ Sw Control	870.49755987 MHz
P1	1		870.651 MHz	13.19 dBm	Occ Sw Freq Offset	241.63271335 MHz

TM3p1, 5 MHz, mid channel



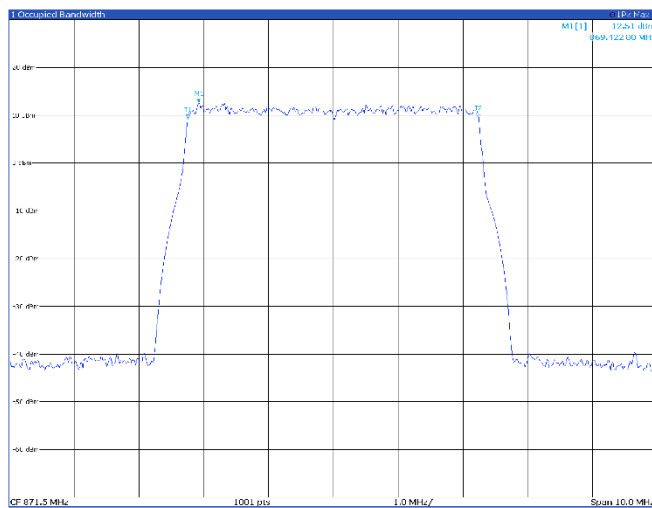
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		883.628 MHz	12.68 dBm	Occ 5w	4.502 701 146 MHz
M1	1		879.250 35 MHz	9.11 dBm	Occ 5w Channel	881.511 702 000 MHz
M2	1		885.205 51 MHz	7.54 dBm	Occ 5w Channel	883.628 000 MHz

TM3p1, 5 MHz, high channel



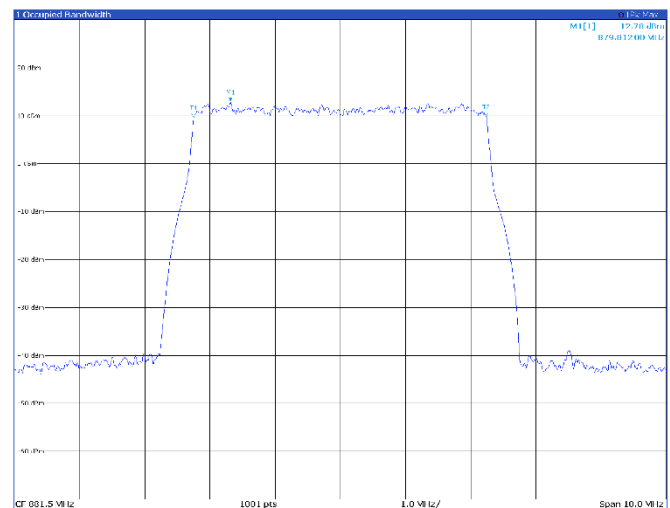
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		893.528 MHz	12.72 dBm	Occ 5w	4.509 075 67 MHz
M1	1		889.251 75 MHz	7.12 dBm	Occ 5w Channel	891.489 251 551 MHz
M2	1		897.740 92 MHz	7.54 dBm	Occ 5w Channel	893.528 000 MHz

TM3p1a, 5 MHz, low channel



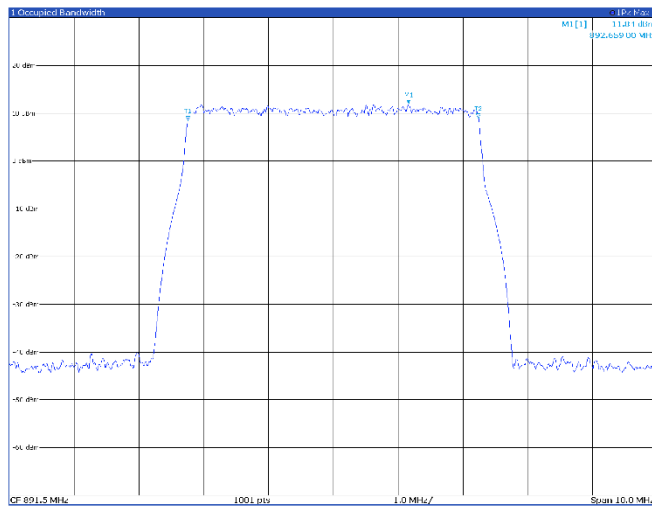
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		869.422 MHz	12.51 dBm	Occ 5w	4.486 144 309 MHz
M1	1		865.252 35 MHz	9.14 dBm	Occ 5w Channel	867.465 464 000 MHz
M2	1		873.730 51 MHz	7.47 dBm	Occ 5w Channel	869.422 000 MHz

TM3p1a, 5 MHz, mid channel



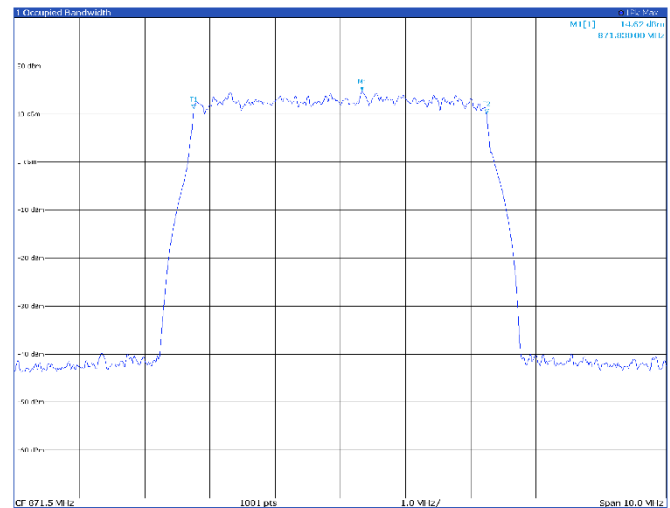
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		879.812 MHz	12.76 dBm	Occ 5w	4.488 214 028 MHz
M1	1		875.251 42 MHz	9.51 dBm	Occ 5w Channel	881.495 555 031 MHz
M2	1		883.730 51 MHz	7.12 dBm	Occ 5w Channel	879.812 000 MHz

TM3p1a, 5 MHz, high channel



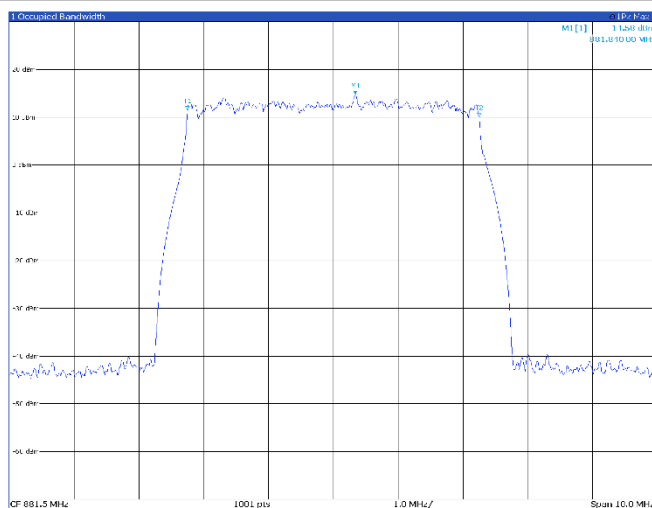
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		892.659 MHz	11.84 dBm	Occ Sw	4.485053532 MHz
P1	1		892.659 MHz	11.84 dBm	Occ Sw Control	892.659 MHz
P2	1		892.659 MHz	11.84 dBm	Occ Sw Control	892.659 MHz

TM3p3, 5 MHz, low channel



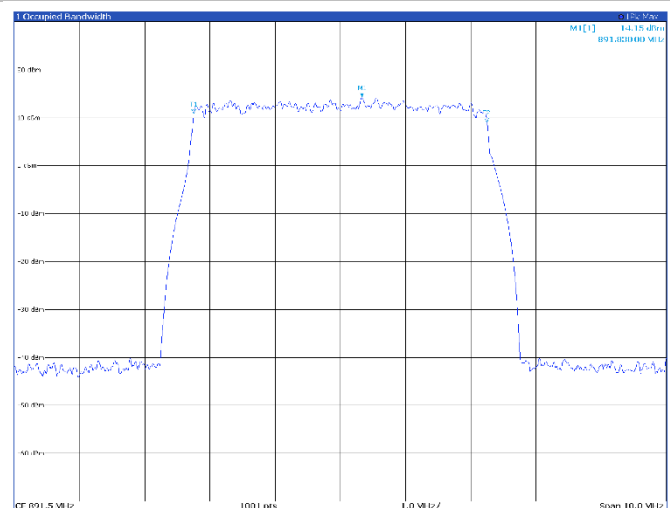
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		871.83 MHz	14.62 dBm	Occ Sw	4.491372496 MHz
P1	1		871.83 MHz	14.62 dBm	Occ Sw Control	871.83 MHz
P2	1		871.83 MHz	14.62 dBm	Occ Sw Control	871.83 MHz

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		881.84 MHz	14.58 dBm	Occ Sw	4.499449577 MHz
P1	1		881.84 MHz	14.58 dBm	Occ Sw Control	881.84 MHz
P2	1		881.84 MHz	14.58 dBm	Occ Sw Control	881.84 MHz

TM3p3, 5 MHz, high channel

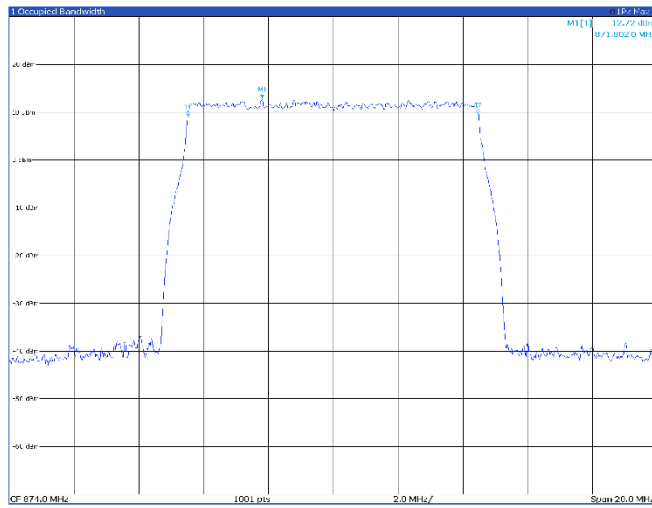


Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		891.83 MHz	14.15 dBm	Occ Sw	4.495196607 MHz
P1	1		891.83 MHz	14.15 dBm	Occ Sw Control	891.83 MHz
P2	1		891.83 MHz	14.15 dBm	Occ Sw Control	891.83 MHz

Band B5

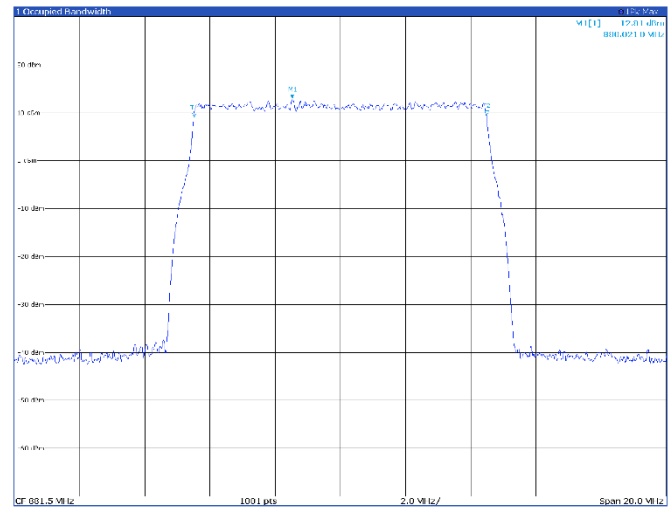
10 MHz

TM1.1, 10 MHz, low channel



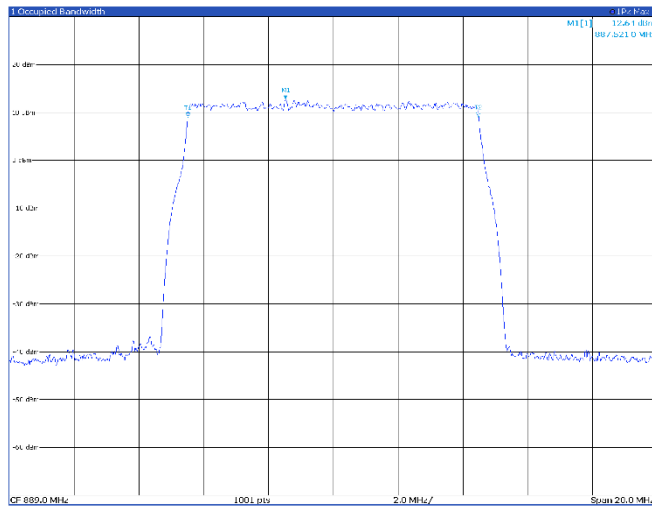
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		871.802 MHz	12.72 dBm		8.963 760 326 MHz
T1	1		869.513 MHz	9.04 dBm	Occ Set Control	870.955 723 645 MHz
T2	1		872.877 MHz	9.05 dBm	Occ Set Freq Offset	870.955 723 645 MHz

TM1.1, 10 MHz, mid channel



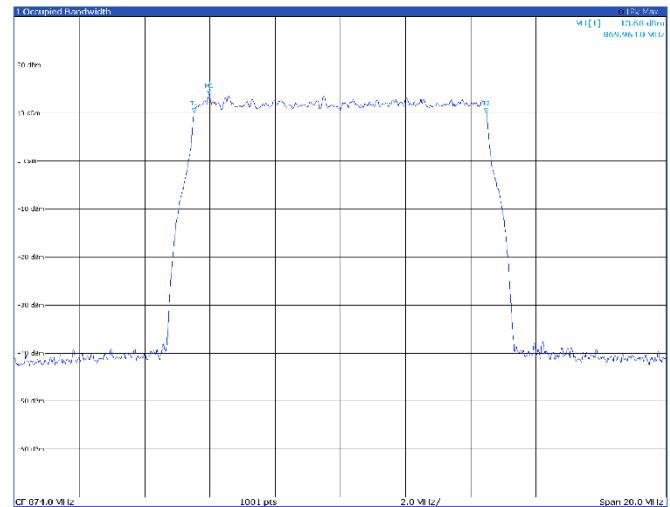
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		880.021 MHz	12.81 dBm		8.969 094 352 MHz
T1	1		877.823 MHz	9.03 dBm	Occ Set Control	880.997 051 025 MHz
T2	1		882.019 MHz	9.03 dBm	Occ Set Freq Offset	880.997 051 025 MHz

TM1.1, 10 MHz, high channel



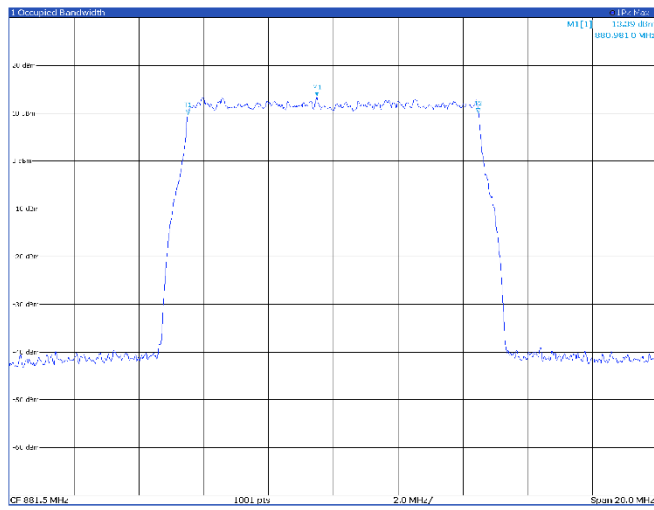
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		887.521 MHz	12.64 dBm		8.966 122 315 MHz
T1	1		884.513 MHz	9.05 dBm	Occ Set Control	886.956 407 269 MHz
T2	1		890.535 MHz	9.05 dBm	Occ Set Freq Offset	886.956 407 269 MHz

TM3p1, 10 MHz, low channel



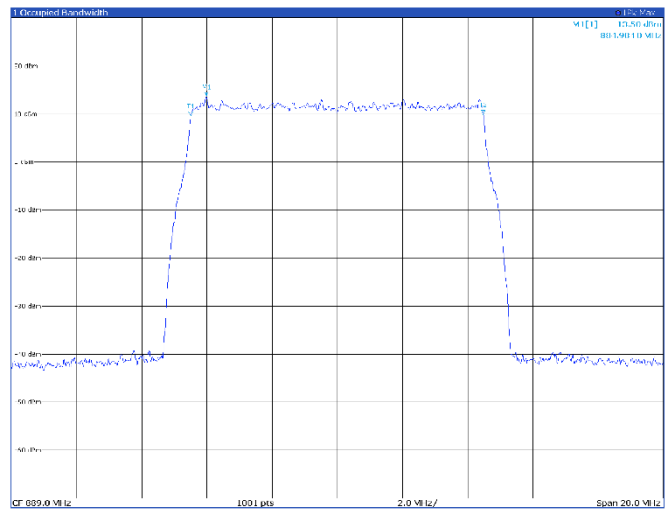
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		869.964 MHz	13.68 dBm		8.969 063 475 MHz
T1	1		866.932 MHz	9.03 dBm	Occ Set Control	870.997 777 727 MHz
T2	1		873.077 MHz	9.03 dBm	Occ Set Freq Offset	870.997 777 727 MHz

TM3p1, 10 MHz, mid channel



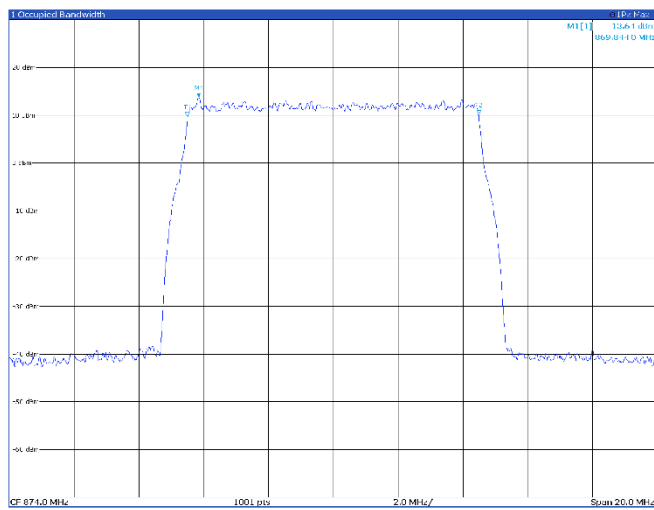
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		880.981 MHz	13.39 dBm	Occ Sw	8.970 717 85 MHz
M1	1		880.981 MHz	13.39 dBm	Occ Sw Control	880.981 445 034 MHz
M1	1		880.981 MHz	13.39 dBm	Occ Sw Control	880.981 445 034 MHz

TM3p1, 10 MHz, high channel



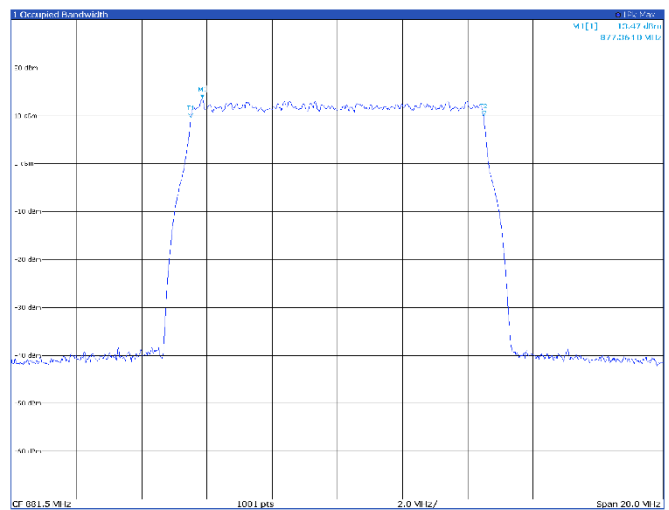
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		884.984 MHz	13.50 dBm	Occ Sw	8.971 523 417 MHz
M1	1		884.984 MHz	13.50 dBm	Occ Sw Control	884.984 671 265 MHz
M1	1		884.984 MHz	13.50 dBm	Occ Sw Control	884.984 671 265 MHz

TM3p1a, 10 MHz, low channel



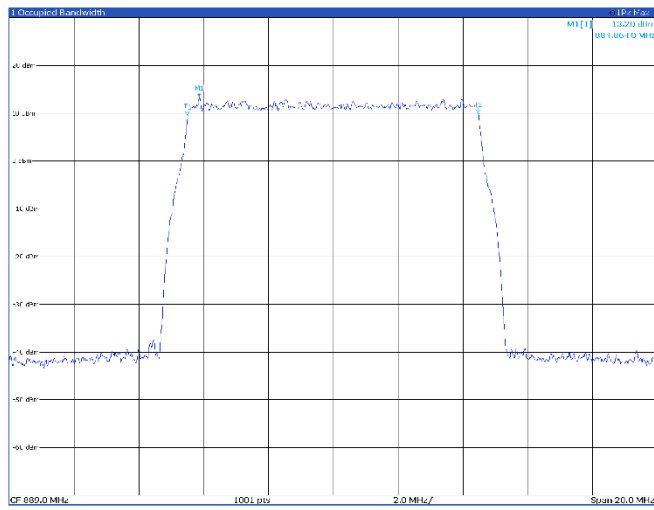
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		869.844 MHz	13.64 dBm	Occ Sw	8.979 373 372 MHz
M1	1		869.844 MHz	13.64 dBm	Occ Sw Control	869.844 531 489 MHz
M1	1		869.844 MHz	13.64 dBm	Occ Sw Control	869.844 531 489 MHz

TM3p1a, 10 MHz, mid channel



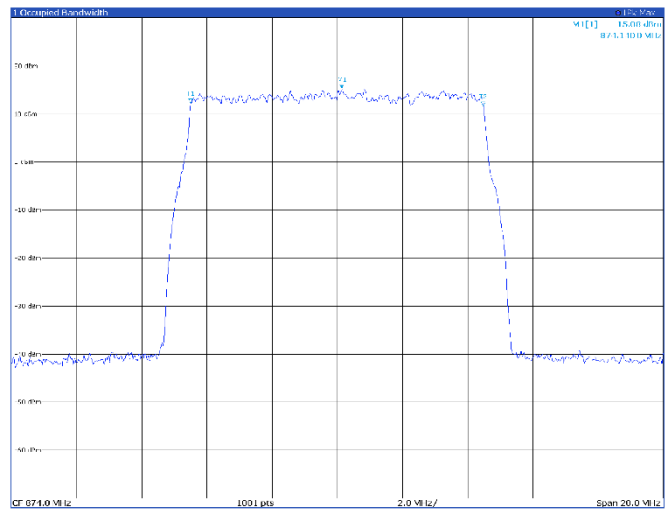
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		877.364 MHz	13.47 dBm	Occ Sw	8.979 568 511 MHz
M1	1		877.364 MHz	13.47 dBm	Occ Sw Control	877.364 671 265 MHz
M1	1		877.364 MHz	13.47 dBm	Occ Sw Control	877.364 671 265 MHz

TM3p1a, 10 MHz, high channel



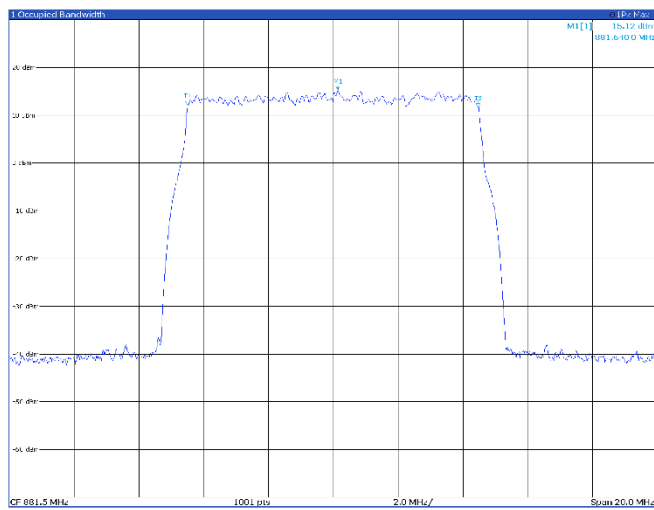
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		884.864 MHz	13.20 dBm	Occ Sw	8.979 379 15 MHz
P1	1		884.864 MHz	13.20 dBm	Occ Sw Control	884.864 MHz
P1	1		884.864 MHz	13.20 dBm	Occ Sw Offset	884.864 MHz

TM3p3, 10 MHz, low channel



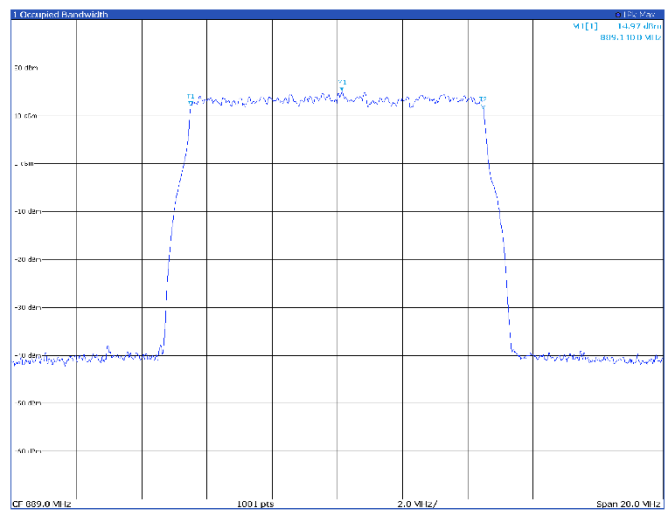
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		874.14 MHz	15.08 dBm	Occ Sw	8.974 645 037 MHz
P1	1		874.14 MHz	15.08 dBm	Occ Sw Control	874.14 MHz
P1	1		874.14 MHz	15.08 dBm	Occ Sw Offset	874.14 MHz

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		881.64 MHz	15.12 dBm	Occ Sw	8.975 121 66 MHz
P1	1		881.64 MHz	15.12 dBm	Occ Sw Control	881.64 MHz
P1	1		881.64 MHz	15.12 dBm	Occ Sw Offset	881.64 MHz

TM3p3, 10 MHz, high channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		889.14 MHz	14.97 dBm	Occ Sw	8.975 329 126 MHz
P1	1		889.14 MHz	14.97 dBm	Occ Sw Control	889.14 MHz
P1	1		889.14 MHz	14.97 dBm	Occ Sw Offset	889.14 MHz

8.3 FCC §2.1049(h) 26 dB Occupied Bandwidth

8.3.1 Definitions and limits

(3) Measurement procedure.

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution 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. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.3.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 25, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.3.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.4.4

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.3.3 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.3.4 Test data

Band B5: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM1.1	871.5	5.07
B5	5 MHz	TM1.1	881.5	5.08
B5	5 MHz	TM1.1	891.5	5.08
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM3p1	871.5	5.11
B5	5 MHz	TM3p1	881.5	5.09
B5	5 MHz	TM3p1	891.5	5.04
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM3p1a	871.5	5.03
B5	5 MHz	TM3p1a	881.5	5.01
B5	5 MHz	TM3p1a	891.5	5.04
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM3p3	871.5	5.09
B5	5 MHz	TM3p3	881.5	5.08
B5	5 MHz	TM3p3	891.5	5.08
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM1.1	874.0	10.05
B5	10 MHz	TM1.1	881.5	10.03
B5	10 MHz	TM1.1	889.0	10.05
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p1	874.0	10.03
B5	10 MHz	TM3p1	881.5	10.03
B5	10 MHz	TM3p1	889.0	9.97
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p1a	874.0	10.01
B5	10 MHz	TM3p1a	881.5	10.03
B5	10 MHz	TM3p1a	889.0	10.05
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p3	874.0	10.03
B5	10 MHz	TM3p3	881.5	10.01
B5	10 MHz	TM3p3	889.0	10.03

Band B5: Antenna port 2

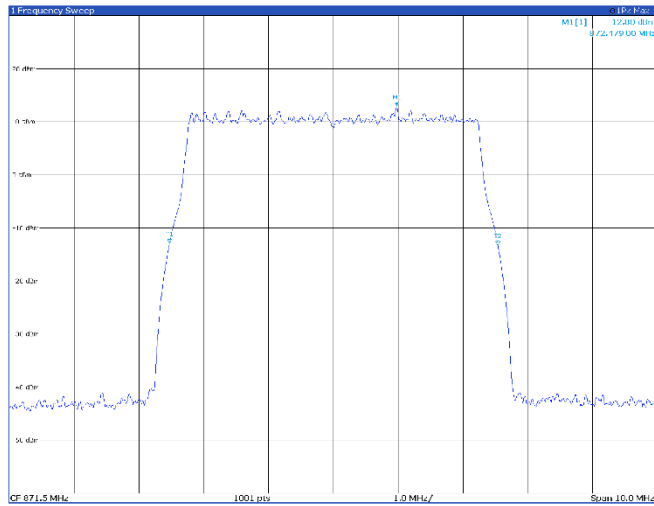
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM1.1	871.5	5.07
B5	5 MHz	TM1.1	881.5	5.11
B5	5 MHz	TM1.1	891.5	5.08
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM3p1	871.5	5.08
B5	5 MHz	TM3p1	881.5	5.09
B5	5 MHz	TM3p1	891.5	5.08
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM3p1a	871.5	5.03
B5	5 MHz	TM3p1a	881.5	5.04
B5	5 MHz	TM3p1a	891.5	5.04
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	5 MHz	TM3p3	871.5	5.08
B5	5 MHz	TM3p3	881.5	5.09
B5	5 MHz	TM3p3	891.5	5.09
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM1.1	874.0	10.05
B5	10 MHz	TM1.1	881.5	10.05
B5	10 MHz	TM1.1	889.0	10.05
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p1	874.0	10.03
B5	10 MHz	TM3p1	881.5	10.01
B5	10 MHz	TM3p1	889.0	9.99
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p1a	874.0	10.05
B5	10 MHz	TM3p1a	881.5	10.05
B5	10 MHz	TM3p1a	889.0	10.05
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p3	874.0	9.99
B5	10 MHz	TM3p3	881.5	10.01
B5	10 MHz	TM3p3	889.0	9.99

Antenna port 1

Band B5

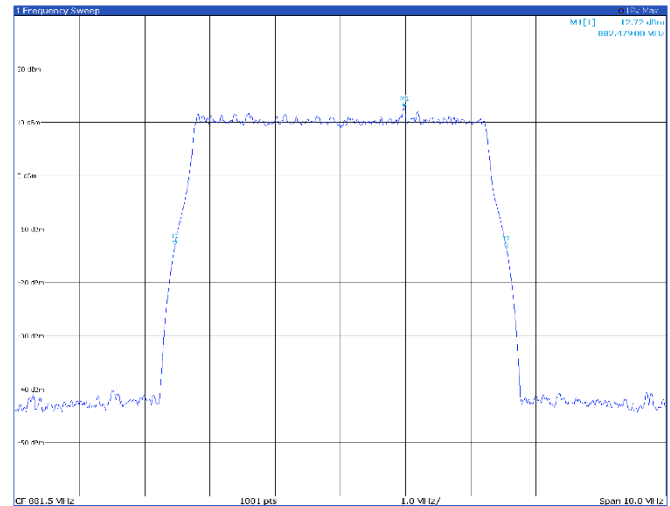
5 MHz

TM1.1, 5 MHz, low channel



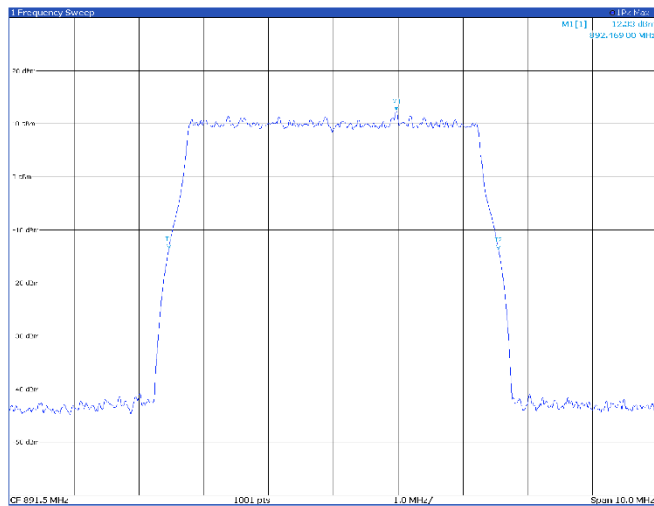
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		672.479 MHz	12.80 dBm	nB	20.0 dB
T1	1		692.972 MHz	-12.93 dBm	nB down BW	5.07 MHz
T2	1		694.047 MHz	-13.30 dBm	Q Factor	175.5

TM1.1, 5 MHz, mid channel



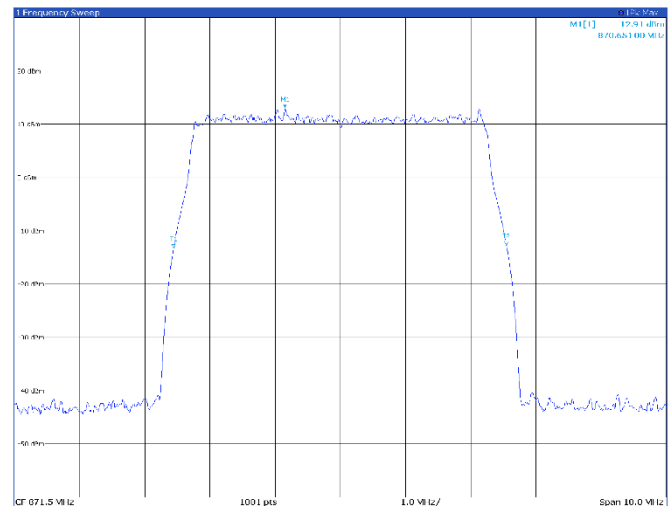
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		682.479 MHz	12.72 dBm	nB	20.0 dB
T1	1		692.972 MHz	-12.93 dBm	nB down BW	5.08 MHz
T2	1		694.047 MHz	-13.30 dBm	Q Factor	175.5

TM1.1, 5 MHz, high channel



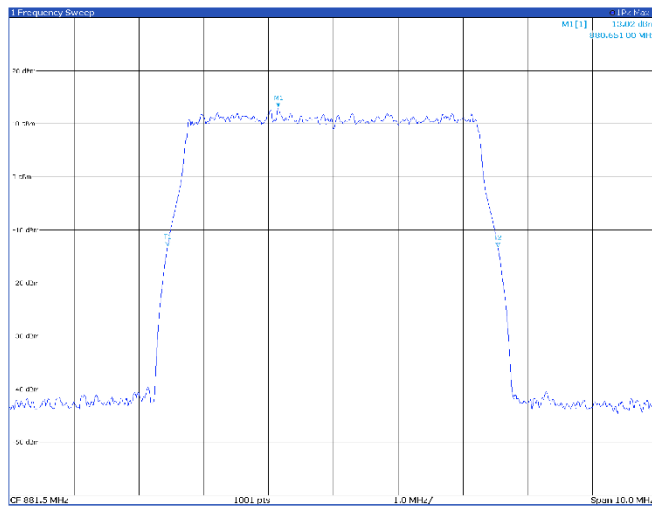
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		692.469 MHz	12.33 dBm	nB	20.0 dB
T1	1		692.972 MHz	-12.93 dBm	nB down BW	5.08 MHz
T2	1		694.047 MHz	-13.30 dBm	Q Factor	175.5

TM3p1, 5 MHz, low channel

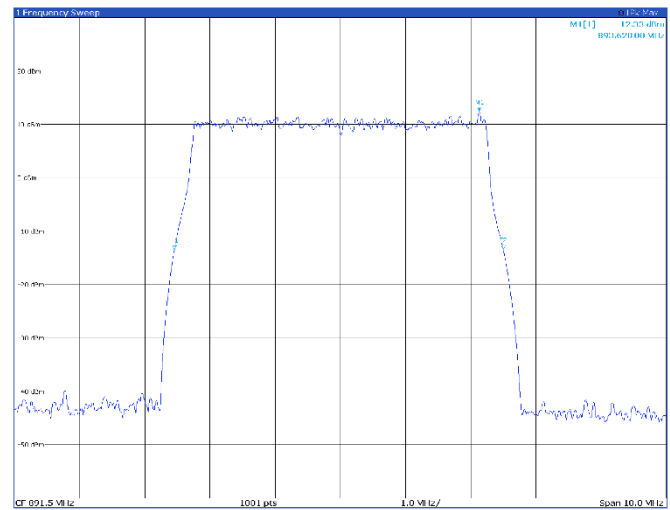


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		670.651 MHz	12.91 dBm	nB	20.0 dB
T1	1		692.972 MHz	-12.93 dBm	nB down BW	5.11 MHz
T2	1		694.047 MHz	-13.30 dBm	Q Factor	175.5

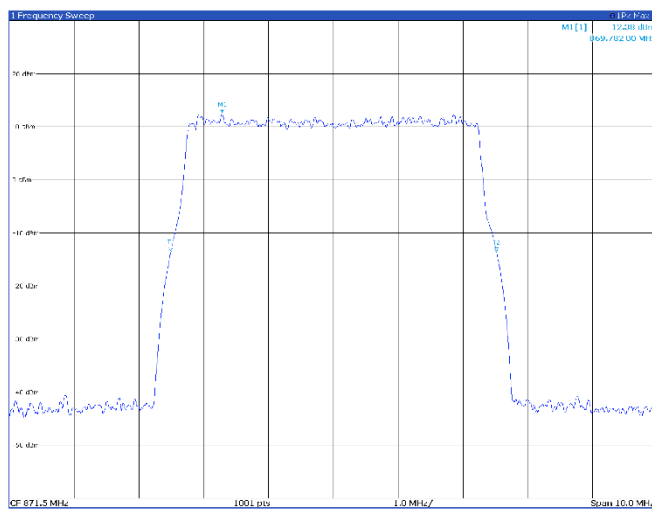
TM3p1, 5 MHz, mid channel



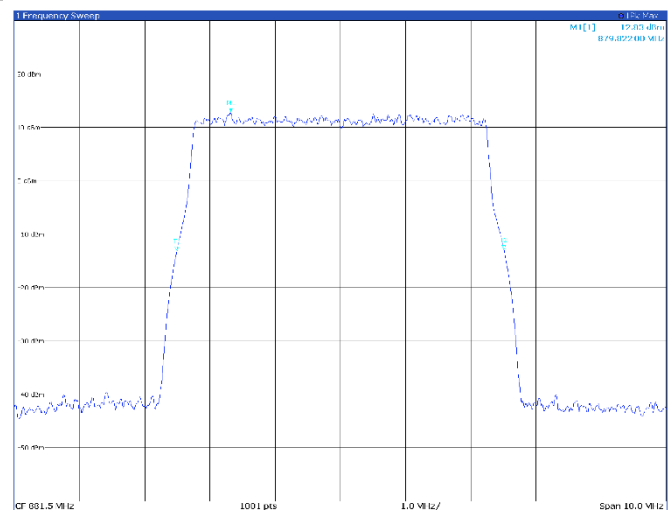
TM3p1, 5 MHz, high channel



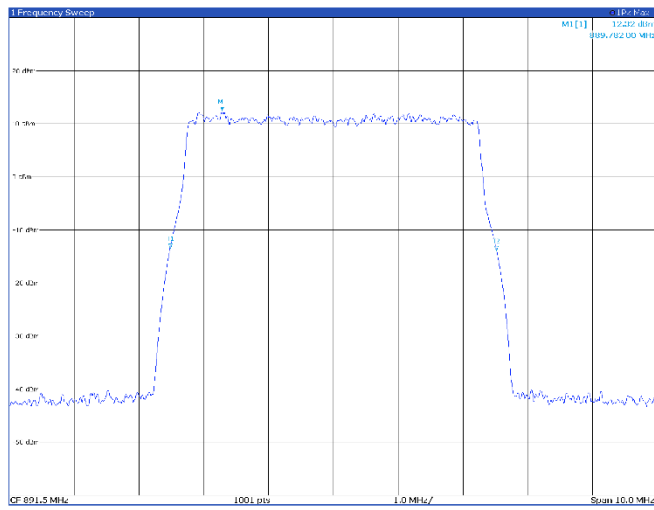
TM3p1a, 5 MHz, low channel



TM3p1a, 5 MHz, mid channel

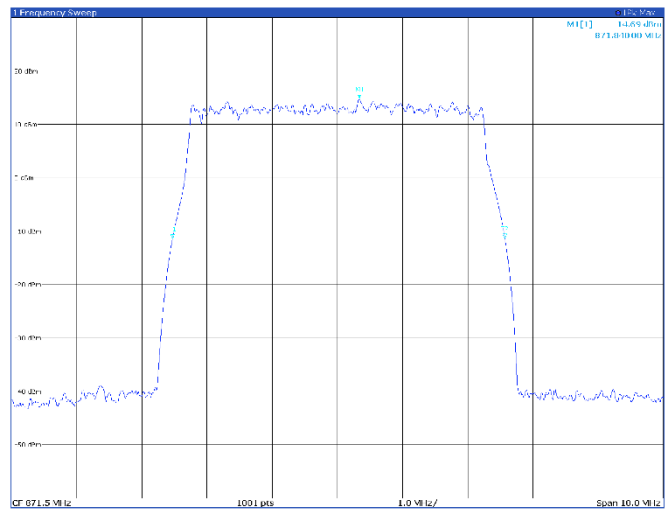


TM3p1a, 5 MHz, high channel



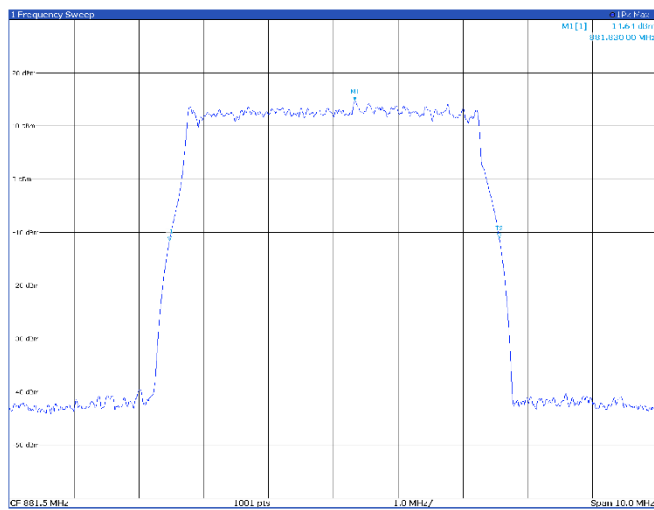
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	891.500 MHz	12.32 dBm	nB	20.0 dB
T1	1	1	891.500 MHz	-11.57 dBm	nB down BW	5.04 MHz
T2	1	1	891.500 MHz	-11.02 dBm	Q Factor	1.71.1

TM3p3, 5 MHz, low channel



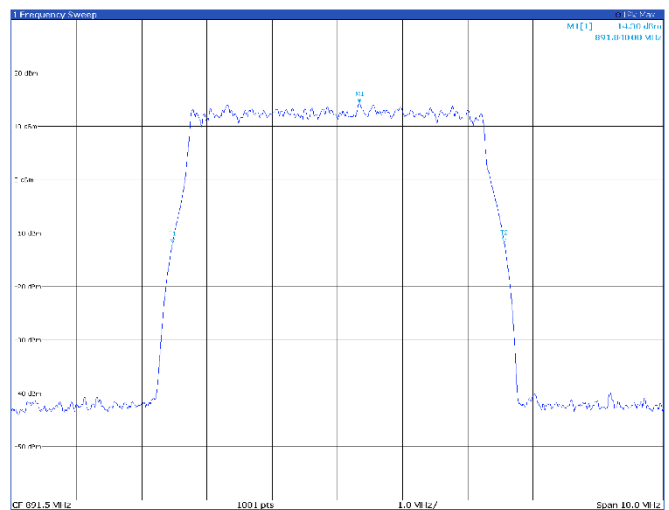
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	871.500 MHz	14.69 dBm	nB	20.0 dB
T1	1	1	871.500 MHz	-11.20 dBm	nB down BW	5.09 MHz
T2	1	1	871.500 MHz	-11.10 dBm	Q Factor	1.71.1

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	881.500 MHz	14.64 dBm	nB	20.0 dB
T1	1	1	881.500 MHz	-11.57 dBm	nB down BW	5.08 MHz
T2	1	1	881.500 MHz	-11.02 dBm	Q Factor	1.71.4

TM3p3, 5 MHz, high channel

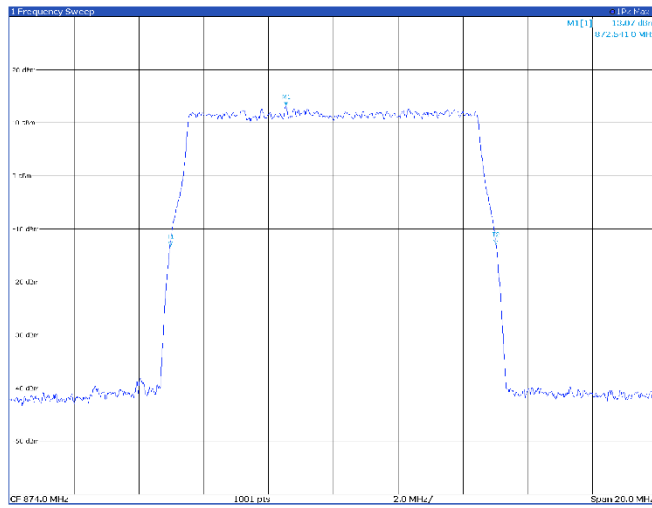


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	891.500 MHz	14.30 dBm	nB	20.0 dB
T1	1	1	891.500 MHz	-11.20 dBm	nB down BW	5.08 MHz
T2	1	1	891.500 MHz	-11.10 dBm	Q Factor	1.71.4

Band B5

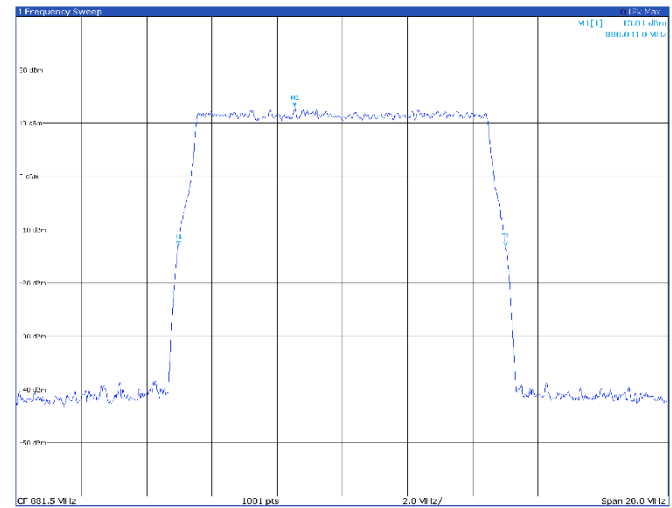
10 MHz

TM1.1, 10 MHz, low channel



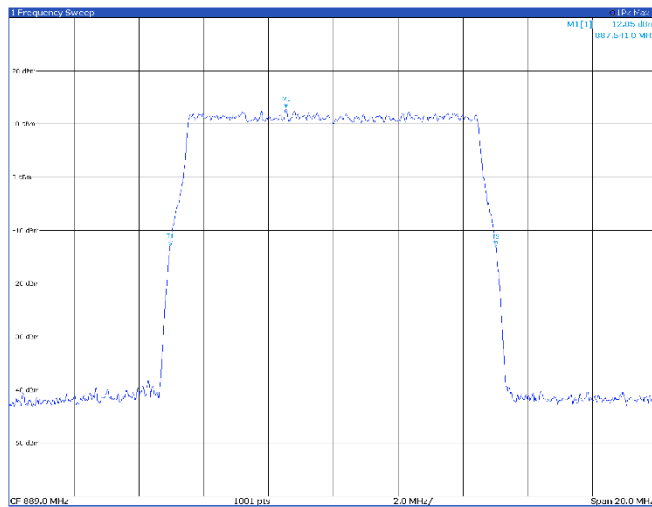
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		872.541 MHz	13.07 dBm	nB	20.0 dB
T1	1		882.955 MHz	-12.92 dBm	nB down BW	10.05 MHz
T2	1		894.015 MHz	-12.99 dBm	Q factor	88.3

TM1.1, 10 MHz, mid channel



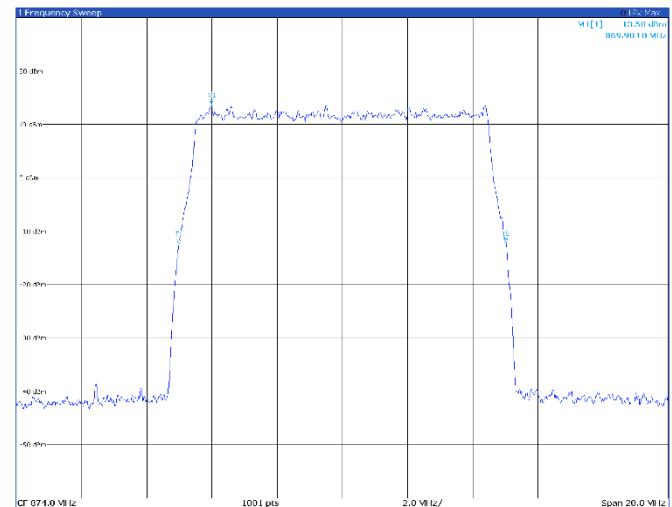
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		880.041 MHz	13.01 dBm	nB	20.0 dB
T1	1		890.455 MHz	-12.92 dBm	nB down BW	10.05 MHz
T2	1		901.515 MHz	-12.97 dBm	Q factor	87.7

TM1.1, 10 MHz, high channel



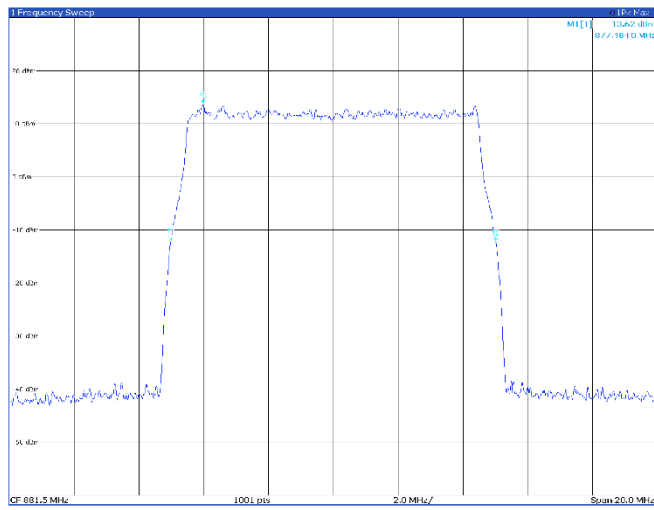
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		887.541 MHz	12.85 dBm	nB	20.0 dB
T1	1		892.955 MHz	-12.92 dBm	nB down BW	10.05 MHz
T2	1		894.015 MHz	-12.99 dBm	Q factor	88.3

TM3p1, 10 MHz, low channel



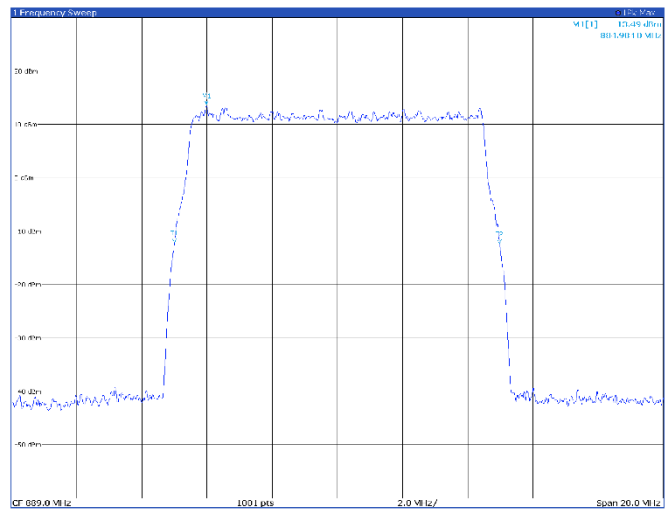
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		869.984 MHz	13.58 dBm	nB	20.0 dB
T1	1		878.912 MHz	-12.37 dBm	nB down BW	10.03 MHz
T2	1		879.015 MHz	-12.77 dBm	Q factor	85.7

TM3p1, 10 MHz, mid channel



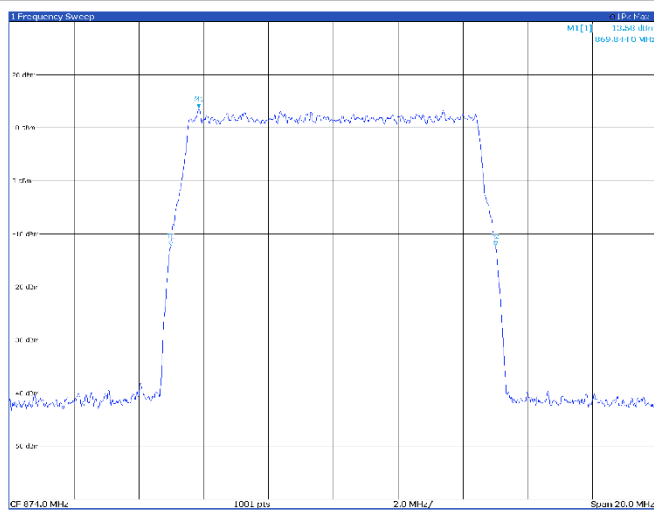
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1	1	877.484 MHz	13.62 dBm	nB	20.0 dB
F1	1	1	876.483 MHz	-12.03 dBm	nB down BW	10.03 MHz
F2	1	1	878.485 MHz	-12.03 dBm	nB	20.0 dB

TM3p1, 10 MHz, high channel



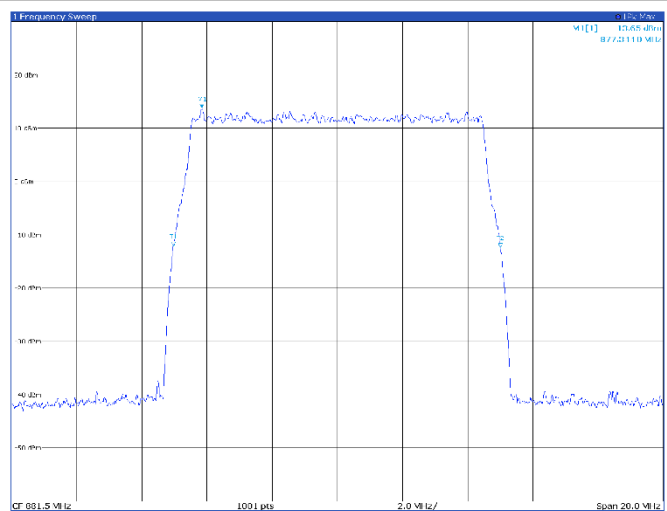
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1	1	884.984 MHz	13.49 dBm	nB	20.0 dB
F1	1	1	884.012 MHz	-12.12 dBm	nB down BW	9.97 MHz
F2	1	1	885.958 MHz	-12.12 dBm	nB	20.0 dB

TM3p1a, 10 MHz, low channel



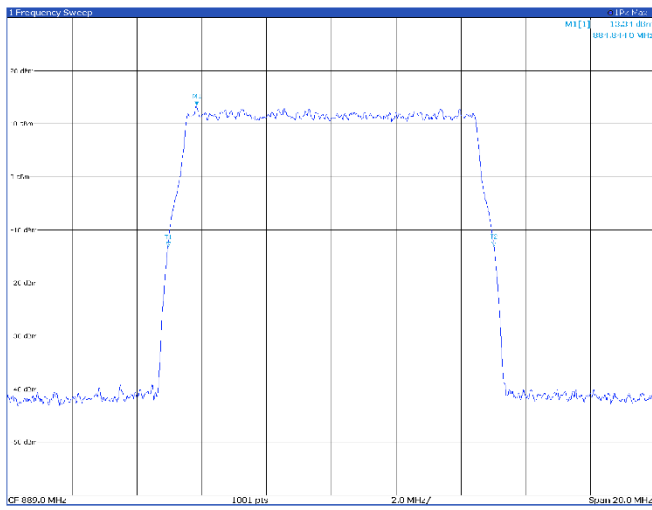
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1	1	869.844 MHz	13.58 dBm	nB	20.0 dB
F1	1	1	868.843 MHz	-12.03 dBm	nB down BW	10.01 MHz
F2	1	1	870.845 MHz	-12.03 dBm	nB	20.0 dB

TM3p1a, 10 MHz, mid channel



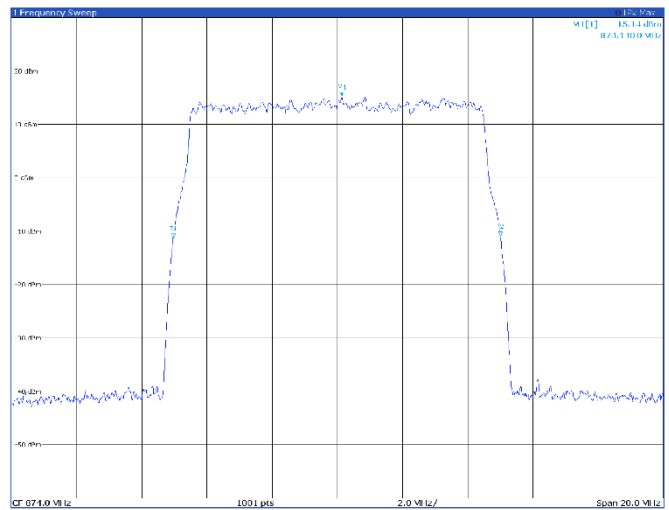
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1	1	877.344 MHz	13.65 dBm	nB	20.0 dB
F1	1	1	876.343 MHz	-12.12 dBm	nB down BW	10.03 MHz
F2	1	1	878.345 MHz	-12.12 dBm	nB	20.0 dB

TM3p1a, 10 MHz, high channel



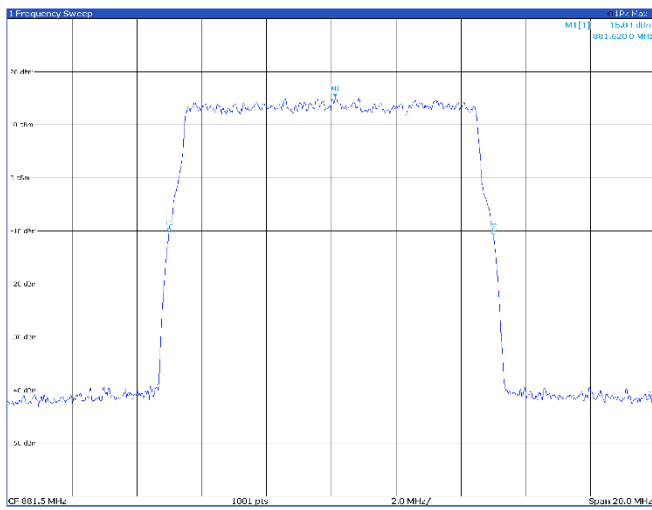
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1		884.844 MHz	13.34 dBm	nB	20.0 dB
F1	1		883.953 MHz	-10.12 dBm	nB down BW	10.05 MHz
F2	1		885.010 MHz	-10.08 dBm	C - 30dB	88.0

TM3p3, 10 MHz, low channel



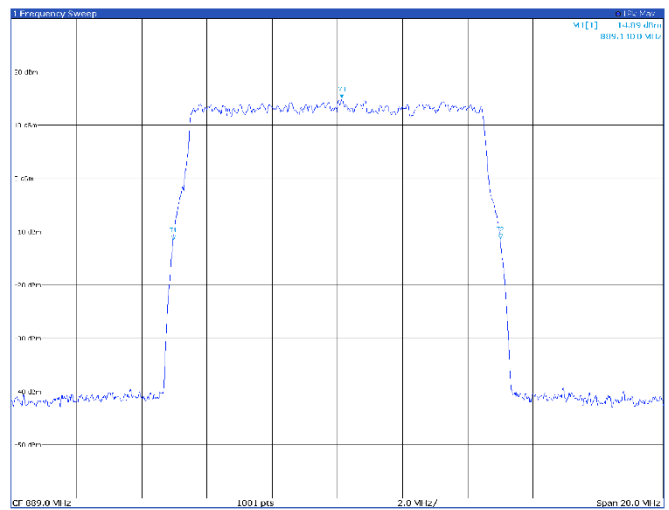
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1		874.14 MHz	15.14 dBm	nB	20.0 dB
F1	1		873.953 MHz	-11.22 dBm	nB down BW	10.03 MHz
F2	1		875.010 MHz	-10.75 dBm	C - 30dB	87.0

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1		881.62 MHz	15.04 dBm	nB	20.0 dB
F1	1		879.462 MHz	-10.22 dBm	nB down BW	10.01 MHz
F2	1		883.440 MHz	-10.06 dBm	C - 30dB	88.1

TM3p3, 10 MHz, high channel



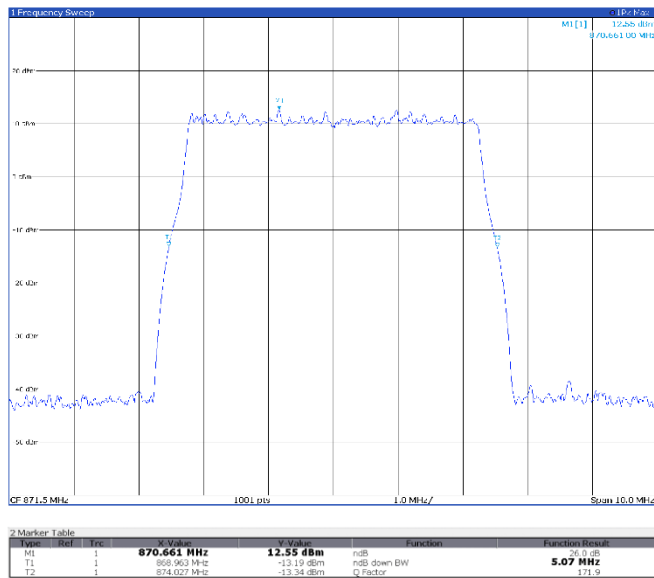
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1		889.14 MHz	14.89 dBm	nB	20.0 dB
F1	1		883.953 MHz	-11.12 dBm	nB down BW	10.03 MHz
F2	1		893.953 MHz	-11.21 dBm	C - 30dB	89.0

Antenna port 2

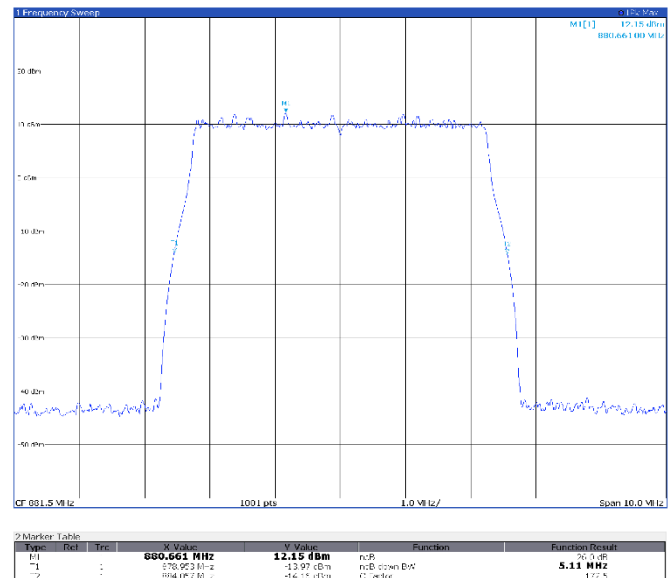
Band B5

5 MHz

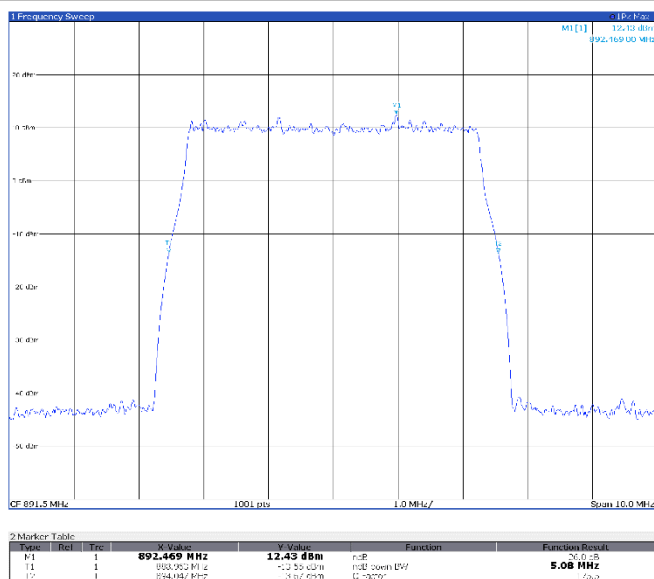
TM1.1, 5 MHz, low channel



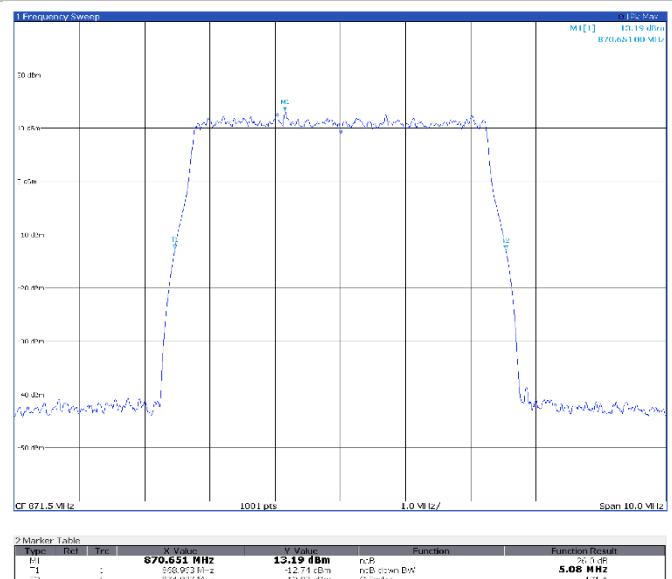
TM1.1, 5 MHz, mid channel



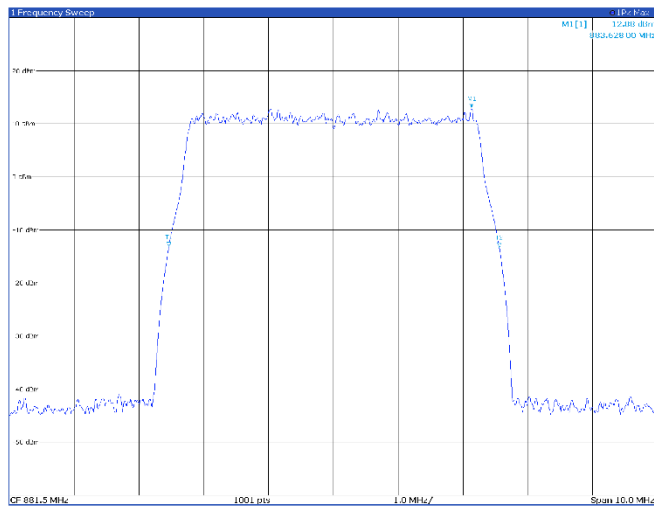
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

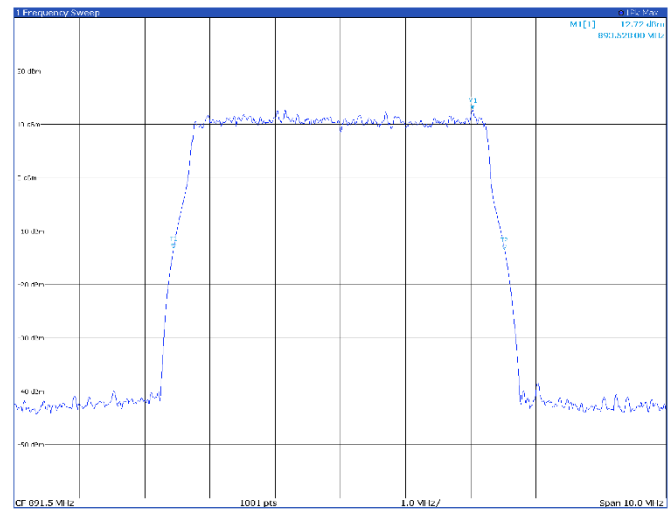


TM3p1, 5 MHz, mid channel



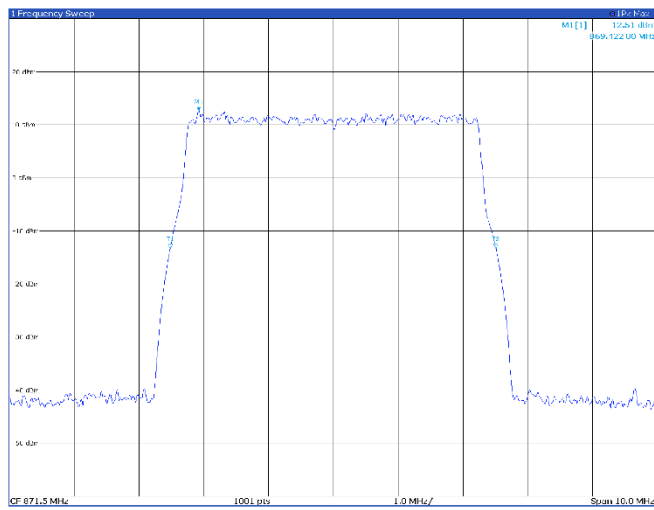
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
F1	1	1	883.628 MHz	12.88 dBm	nB	20.0 dB	
F1	1	1	883.628 MHz	12.88 dBm	nB	14.0 dB	
F2	1	1	883.628 MHz	12.88 dBm	nB	5.09 MHz	

TM3p1, 5 MHz, high channel



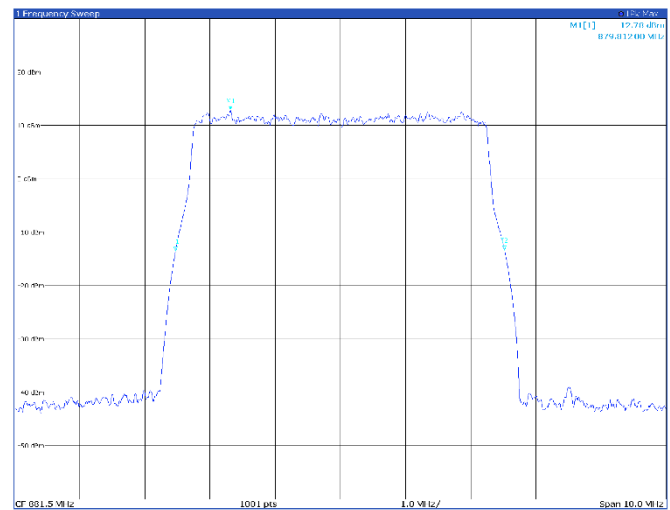
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
F1	1	1	893.528 MHz	12.72 dBm	nB	20.0 dB	
F1	1	1	893.528 MHz	12.72 dBm	nB	14.0 dB	
F2	1	1	893.528 MHz	12.72 dBm	nB	5.08 MHz	

TM3p1a, 5 MHz, low channel



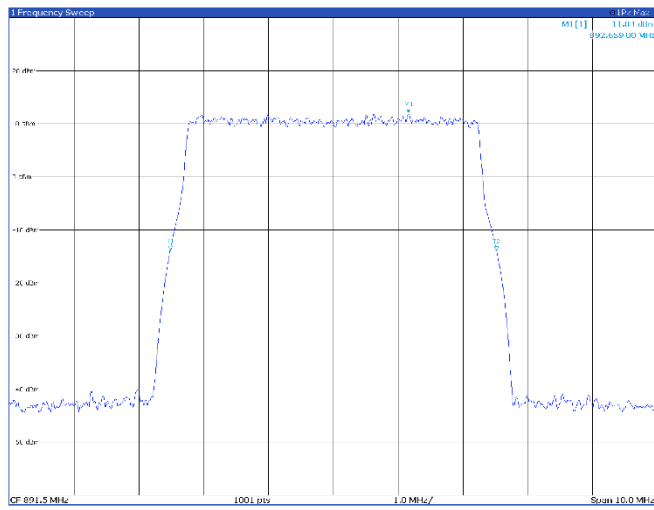
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
F1	1	1	869.422 MHz	12.51 dBm	nB	20.0 dB	
F1	1	1	869.422 MHz	12.51 dBm	nB	14.0 dB	
F2	1	1	869.422 MHz	12.51 dBm	nB	5.03 MHz	

TM3p1a, 5 MHz, mid channel



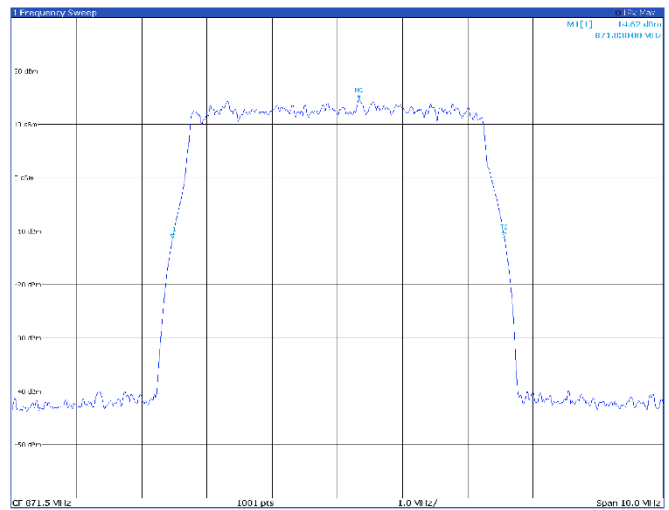
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
F1	1	1	879.812 MHz	12.76 dBm	nB	20.0 dB	
F1	1	1	879.812 MHz	12.76 dBm	nB	14.0 dB	
F2	1	1	879.812 MHz	12.76 dBm	nB	5.04 MHz	

TM3p1a, 5 MHz, high channel



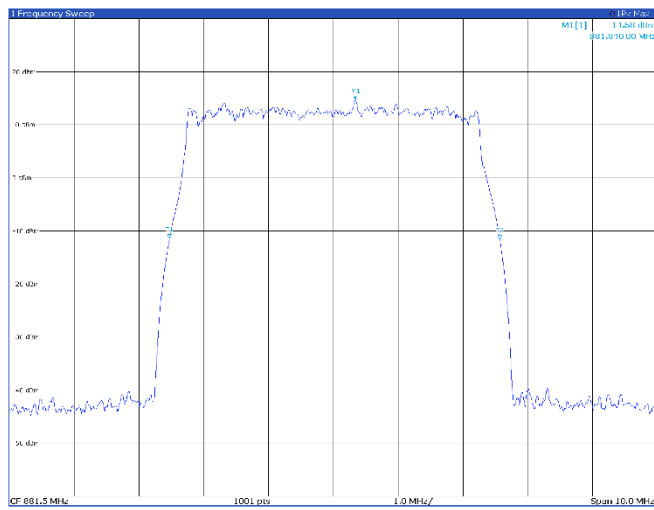
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		892.059 MHz	11.84 dBm	nB	20.0 dB
M1	1		892.059 MHz	-12.53 dBm	nB down BW	5.04 MHz
M2	1		892.059 MHz	6.03 dBm	Q-adj	17.0

TM3p3, 5 MHz, low channel



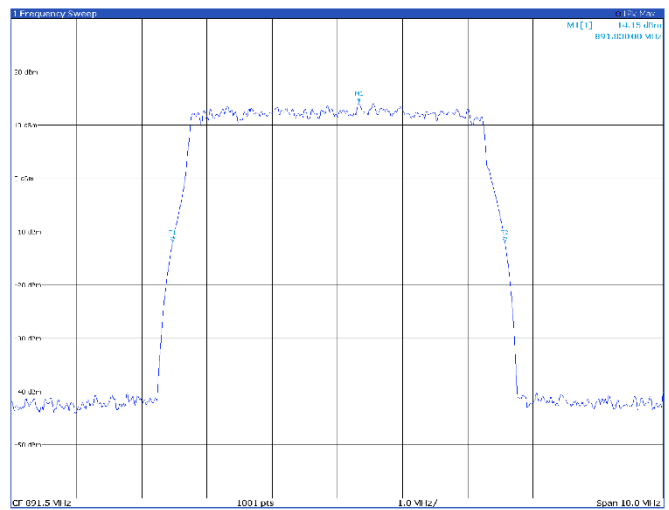
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		871.833 MHz	14.62 dBm	nB	20.0 dB
M1	1		871.833 MHz	-11.71 dBm	nB down BW	5.08 MHz
M2	1		871.833 MHz	-11.01 dBm	Q-adj	17.0

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		891.833 MHz	14.58 dBm	nB	20.0 dB
M1	1		891.833 MHz	-11.53 dBm	nB down BW	5.09 MHz
M2	1		891.833 MHz	1.06 dBm	Q-adj	17.0

TM3p3, 5 MHz, high channel

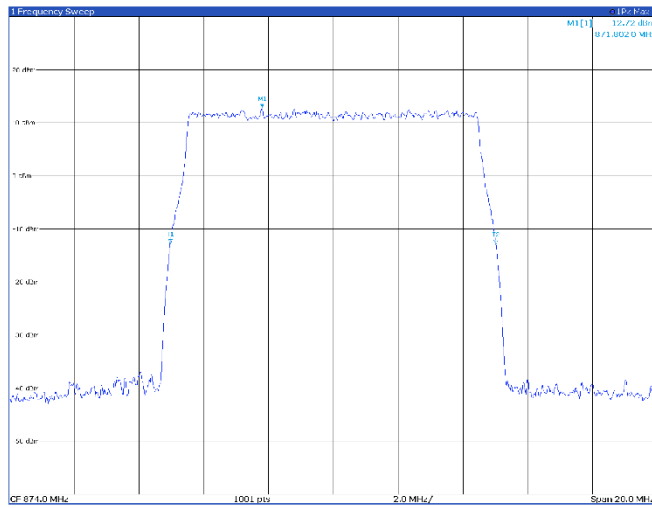


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		891.833 MHz	14.15 dBm	nB	20.0 dB
M1	1		891.833 MHz	-11.94 dBm	nB down BW	5.09 MHz
M2	1		891.833 MHz	-12.01 dBm	Q-adj	17.0

Band B5

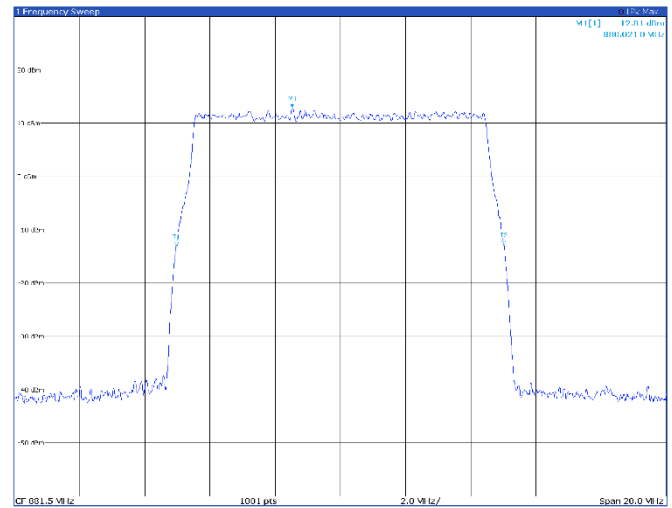
10 MHz

TM1.1, 10 MHz, low channel



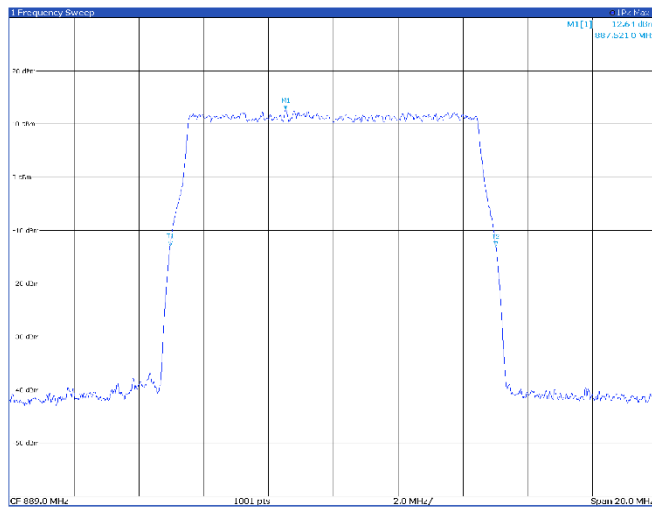
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		871.002 MHz	12.72 dBm	nB	20.0 dB
T1	1		870.995 MHz	-12.79 dBm	nB down BW	10.05 MHz
T2	1		871.005 MHz	-12.86 dBm	Q factor	86.7

TM1.1, 10 MHz, mid channel



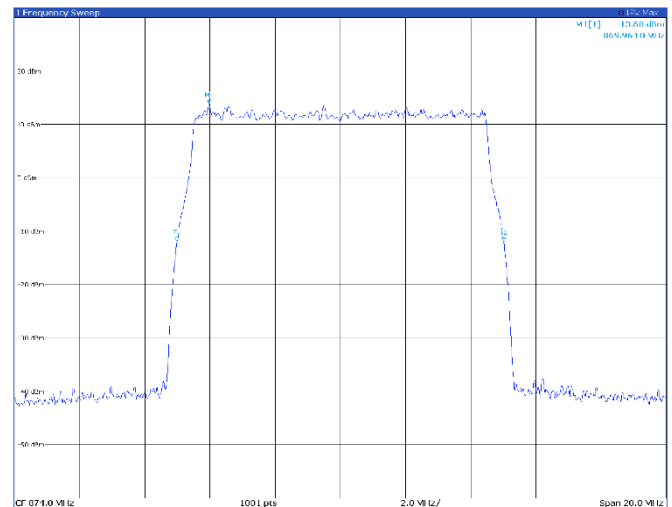
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		880.021 MHz	12.81 dBm	nB	20.0 dB
T1	1		880.015 MHz	-12.73 dBm	nB down BW	10.05 MHz
T2	1		880.025 MHz	-12.80 dBm	Q factor	87.8

TM1.1, 10 MHz, high channel



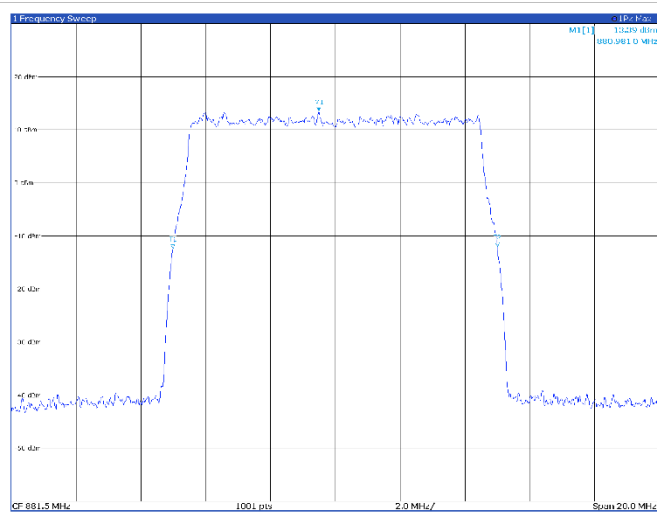
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		887.521 MHz	12.64 dBm	nB	20.0 dB
T1	1		887.505 MHz	-12.90 dBm	nB down BW	10.05 MHz
T2	1		887.535 MHz	-13.02 dBm	Q factor	86.3

TM3p1, 10 MHz, low channel



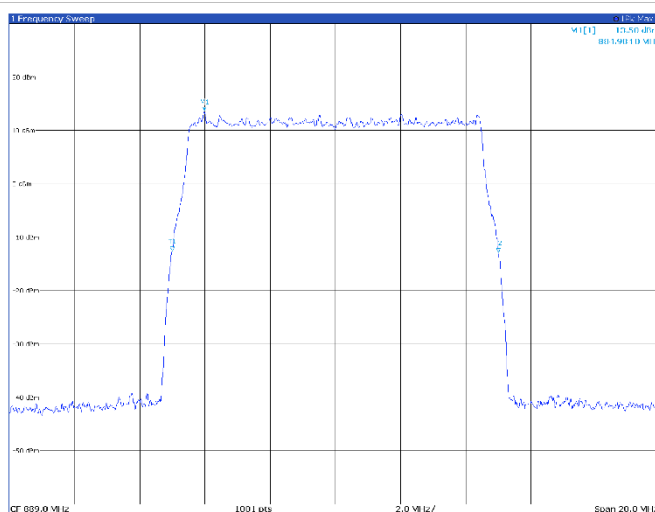
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		869.964 MHz	13.68 dBm	nB	20.0 dB
T1	1		869.955 MHz	-12.05 dBm	nB down BW	10.03 MHz
T2	1		869.975 MHz	-12.08 dBm	Q factor	85.7

TM3p1, 10 MHz, mid channel



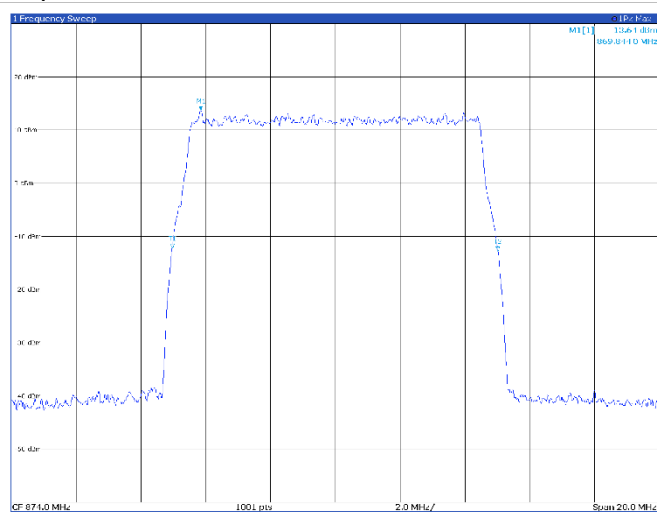
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1		1	880.981 MHz	13.39 dBm	nB	26.0 dB
T1		1	876.485 MHz	-12.48 dBm	nB down BW	10.01 MHz
T2		1	886.485 MHz	-12.48 dBm	G-matter	886.0

TM3p1, 10 MHz, high channel



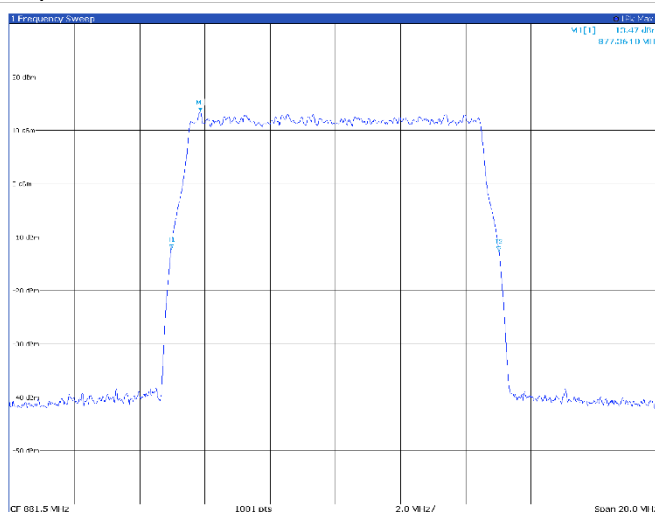
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M			884.984 MHz	13.50 dBm	mP	26.1 dB
T	:		884.013 MHz	-12.60 dBm	mD given Dn	9.99 MHz
T	:		884.013 MHz	-12.60 dBm		9.99 MHz

TM3p1a, 10 MHz, low channel



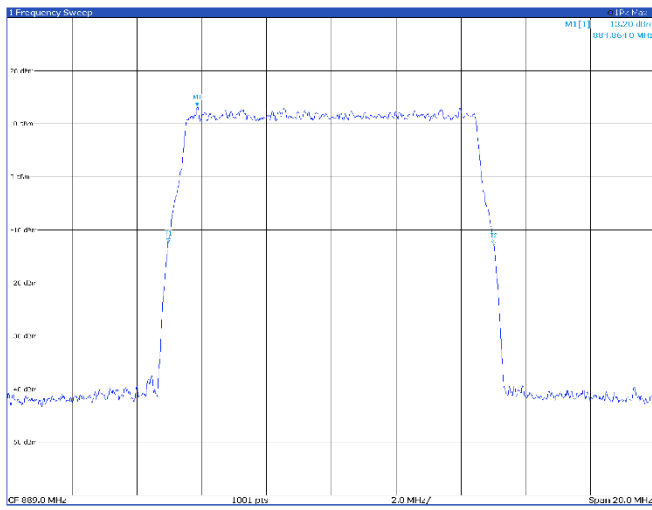
Type	Ref	Trc	X Value	Y Value	Function	Function Result
F1	1		869.844 MHz	13.64 dBm	nP	26.0 dB
T1	1		883.959 MHz	-12.2 dBm	nP 200m (5W)	10.05 MHz
F2	1		899.018 MHz	-12.2 dBm	100m	86.6

TM3p1a, 10 MHz, mid channel



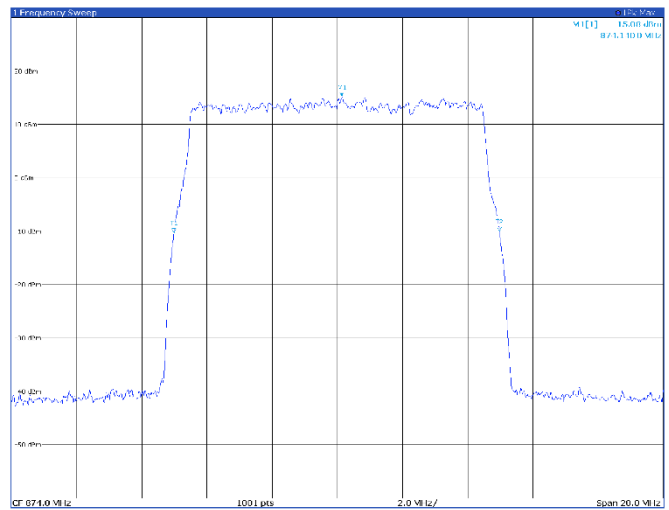
Type	Ref	Trc	X Value	Y Value	Function	Function Result
fil			877.364 MHz	13.47 dBm	nB	26.0 dB
T1	:		876.415 MHz	-12.25 cdB	nB given BW	10.05 MHz

TM3p1a, 10 MHz, high channel



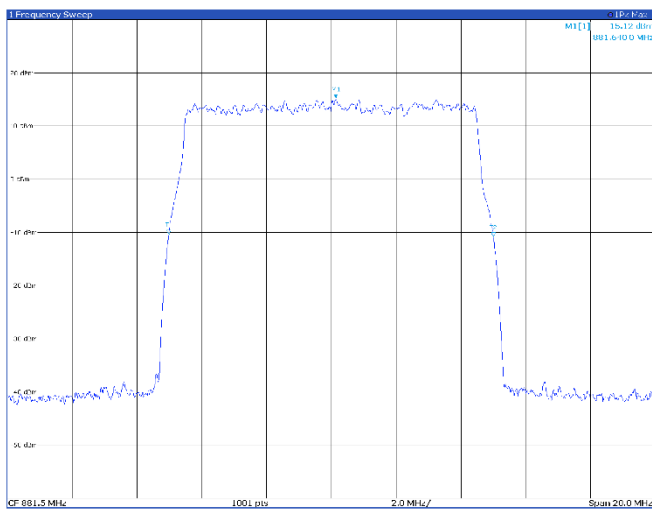
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		884.864 MHz	13.20 dBm	nB	20.0 dB
M1	1		882.953 MHz	-12.20 dBm	nB down BW	10.05 MHz
M2	1		884.864 MHz	-12.20 dBm	nB	20.0 dB

TM3p3, 10 MHz, low channel



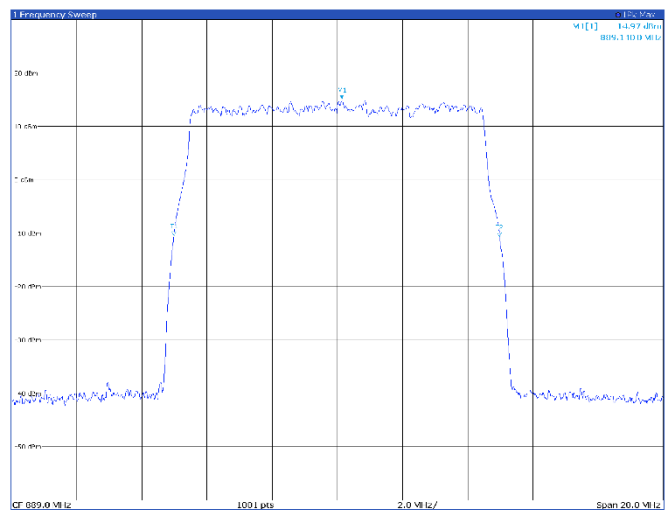
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		874.14 MHz	15.08 dBm	nB	20.0 dB
M1	1		870.953 MHz	-10.20 dBm	nB down BW	9.99 MHz
M2	1		874.14 MHz	-10.20 dBm	nB	20.0 dB

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		881.64 MHz	15.12 dBm	nB	20.0 dB
M1	1		878.453 MHz	-10.20 dBm	nB down BW	10.01 MHz
M2	1		881.64 MHz	-10.20 dBm	nB	20.0 dB

TM3p3, 10 MHz, high channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		889.14 MHz	14.97 dBm	nB	20.0 dB
M1	1		885.953 MHz	-10.20 dBm	nB down BW	9.99 MHz
M2	1		889.14 MHz	-10.20 dBm	nB	20.0 dB

8.4 FCC 22.913 Effective radiated power limits

8.4.1 Definitions and limits

Licenseses in the Cellular Radiotelephone Service are subject to the effective radiated power (ERP) limits and other requirements in this Section. See also § 22.169.

(a) Maximum ERP. The ERP of transmitters in the Cellular Radiotelephone Service must not exceed the limits in this section.

(1) Except as described in paragraphs (a)(2), (3), and (4) of this section, the ERP of base stations and repeaters must not exceed—

- (i) 500 watts per emission; or
- (ii) 400 watts/MHz (PSD) per sector.

(2) Except as described in paragraphs (a)(3) and (4) of this section, for systems operating in areas more than 72 kilometers (45 miles) from international borders that:

- (i) Are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census; or
- (ii) Extend coverage into Unserved Area on a secondary basis (see § 22.949), the ERP of base transmitters and repeaters must not exceed—
 - (A) 1000 watts per emission; or
 - (B) 800 watts/MHz (PSD) per sector.

(3) Provided that they also comply with paragraphs (b) and (c) of this section, licensees are permitted to operate their base transmitters and repeaters with an ERP greater than 400 watts/MHz (PSD) per sector, up to a maximum ERP of 1000 watts/MHz (PSD) per sector unless they meet the conditions in paragraph (a)(4) of this section.

(4) Provided that they also comply with paragraphs (b) and (c) of this section, licensees of systems operating in areas more than 72 kilometers (45 miles) from international borders that:

- (i) Are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census; or
- (ii) Extend coverage into Unserved Area on a secondary basis (see § 22.949), are permitted to operate base transmitters and repeaters with an ERP greater than 800 watts/MHz (PSD) per sector, up to a maximum of 2000 watts/MHz (PSD) per sector.

(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

§ 24.232 Power and antenna height limits.

(a)

(1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(2) Base stations with an emission bandwidth greater than 1 MHz are limited to **1640 watts/MHz** equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

8.4.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 25, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.4.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.2.4.5

Spectrum analyzer settings:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	>= 1.5* OBW
Detector mode	Peak
Trace mode	Max Hold

This test was made across the conducted port and using a sensor power. An offset of 30 dB was added to the measurement to compensate the loss of the external 30 dB attenuator. Interconnecting cable losses were included as a transducer factor in the spectrum analyzer.

8.4.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.4.5 Test data

Band B5:

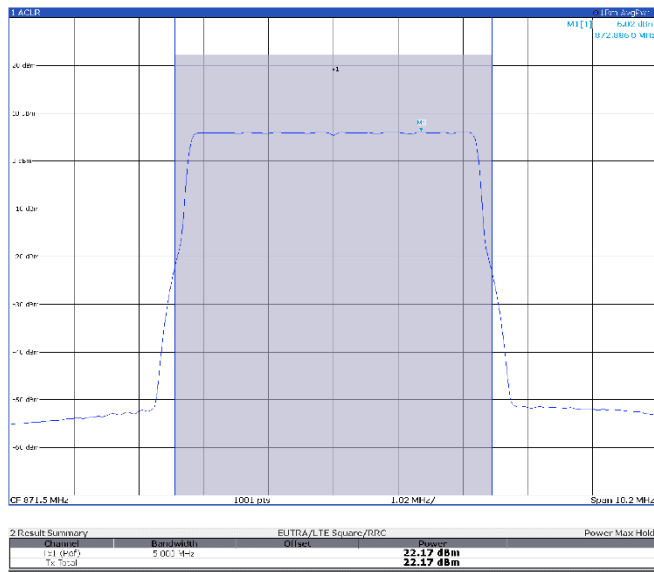
Modulation	OBW (MHz)	Frequency (MHz)	Measured Power Density (dBm/MHz) port 1	Measured Power Density (dBm/MHz) port 2	Antenna Gain Max (dBi)	Total EIRP Power Density (dBm/MHz)	Measured Power (dBm) port 1	Measured Power (dBm) port 2	Limits Power Density (dBm/MHz)	Margin (dB)
TM1.1	5	871.5	6.02	6.04	4.8	13.84	22.17	22.23	62.1	-48.26
TM3p1	5	871.5	5.87	5.94	4.8	13.72	21.96	22.03	62.1	-48.38
TM3p1a	5	871.5	6.05	6.04	4.8	13.86	22.09	22.14	62.1	-48.24
TM3p3	5	871.5	7.29	7.20	4.8	15.06	21.88	21.87	62.1	-47.04
TM1.1	5	881.5	5.62	5.75	4.8	13.50	21.78	21.93	62.1	-48.60
TM3p1	5	881.5	5.87	5.99	4.8	13.74	21.93	22.03	62.1	-48.36
TM3p1a	5	881.5	6.63	6.18	4.8	14.22	22.90	22.28	62.1	-47.88
TM3p3	5	881.5	7.32	7.07	4.8	15.01	22.13	21.76	62.1	-47.09
TM1.1	5	891.5	5.59	5.58	4.8	13.40	21.68	21.74	62.1	-48.70
TM3p1	5	891.5	5.70	5.73	4.8	13.53	21.70	21.76	62.1	-48.57
TM3p1a	5	891.5	5.74	5.74	4.8	13.55	21.76	21.79	62.1	-48.55
TM3p3	5	891.5	6.98	7.09	4.8	14.85	21.79	21.74	62.1	-47.25
TM1.1	10	874.0	2.97	2.86	4.8	10.73	22.09	22.01	62.1	-51.37
TM3p1	10	874.0	3.11	3.09	4.8	10.91	22.30	22.13	62.1	-51.19
TM3p1a	10	874.0	3.21	3.24	4.8	11.04	22.33	22.11	62.1	-51.06
TM3p3	10	874.0	4.06	4.61	4.8	12.15	22.31	22.16	62.1	-49.95
TM1.1	10	881.5	2.85	2.77	4.8	10.62	22.01	21.98	62.1	-51.48
TM3p1	10	881.5	3.00	2.85	4.8	10.74	22.25	22.02	62.1	-51.36
TM3p1a	10	881.5	3.08	3.01	4.8	10.86	22.25	21.99	62.1	-51.24
TM3p3	10	881.5	4.56	4.53	4.8	12.36	22.24	21.98	62.1	-49.74
TM1.1	10	889.0	2.58	2.70	4.8	10.45	21.98	21.87	62.1	-51.65
TM3p1	10	889.0	2.84	2.80	4.8	10.63	22.02	21.90	62.1	-51.47
TM3p1a	10	889.0	2.85	2.89	4.8	10.68	22.05	21.89	62.1	-51.42
TM3p3	10	889.0	4.34	4.36	4.8	12.16	21.83	21.88	62.1	-49.94

Antenna port 1

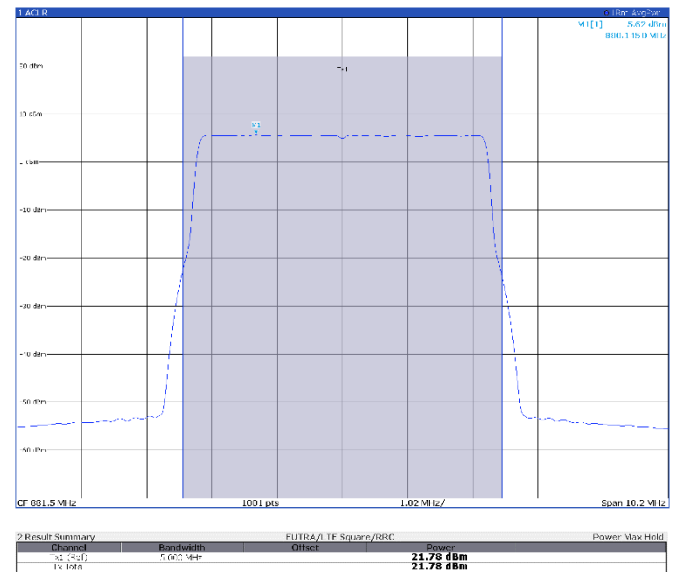
Band B5

5 MHz

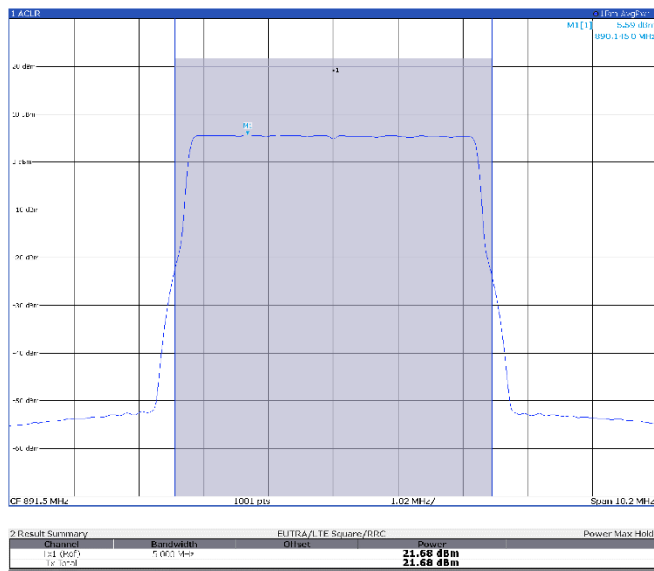
TM1.1, 5 MHz, low channel



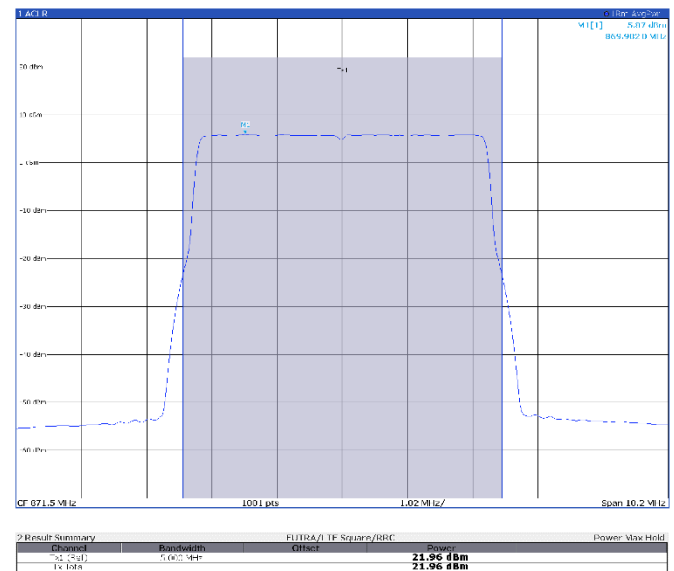
TM1.1, 5 MHz, mid channel



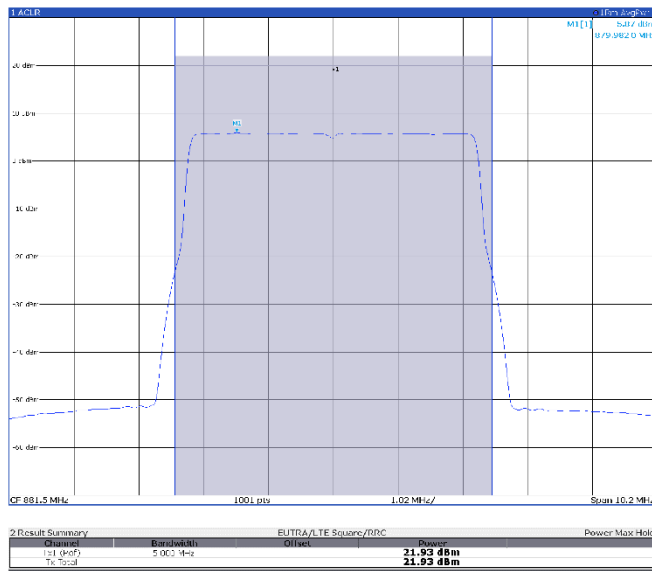
TM1.1, 5 MHz, high channel



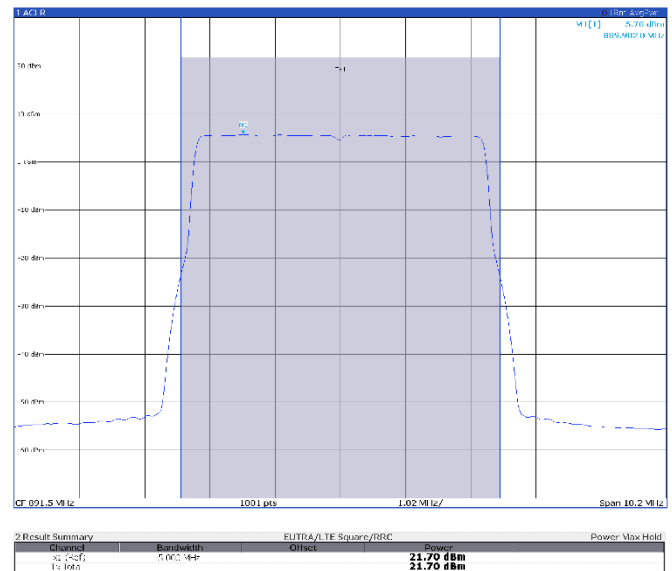
TM3p1, 5 MHz, low channel



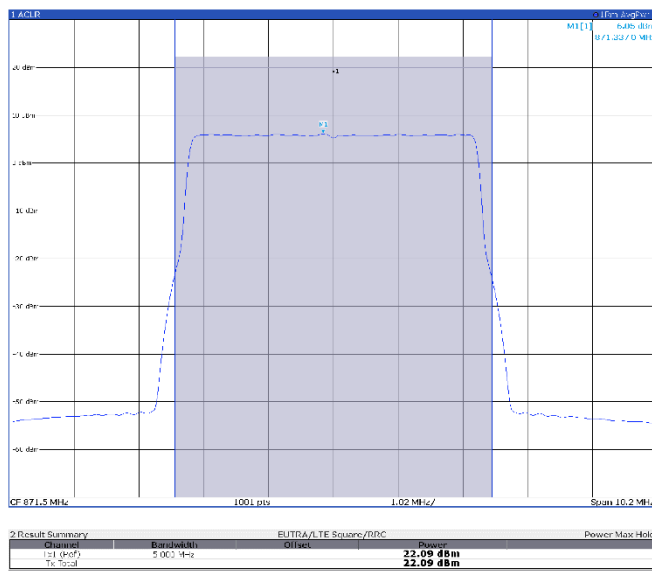
TM3p1, 5 MHz, mid channel



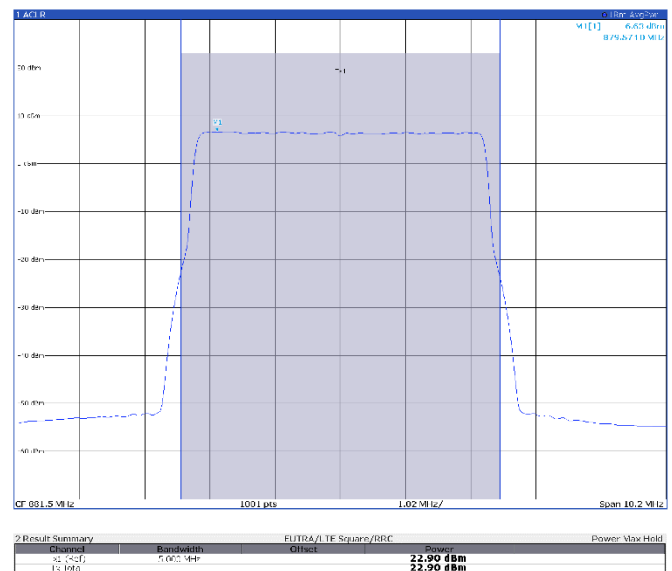
TM3p1, 5 MHz, high channel



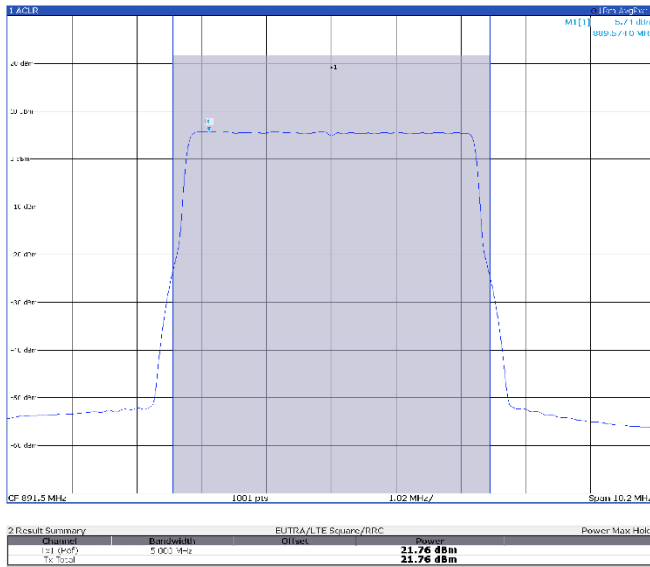
TM3p1a, 5 MHz, low channel



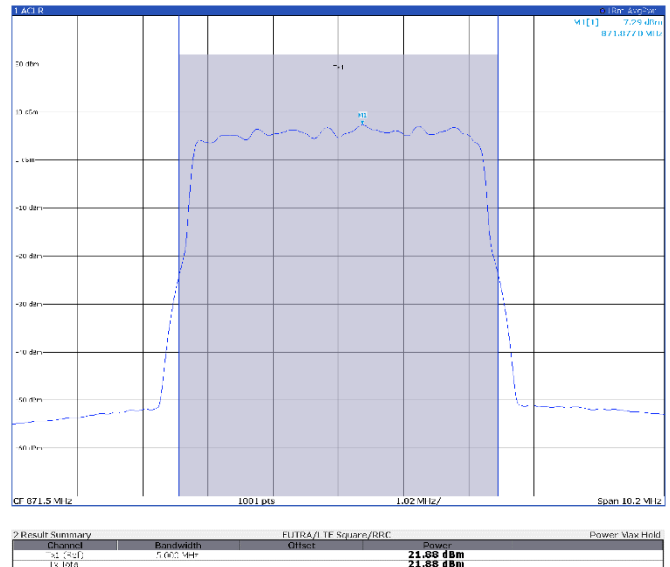
TM3p1a, 5 MHz, mid channel



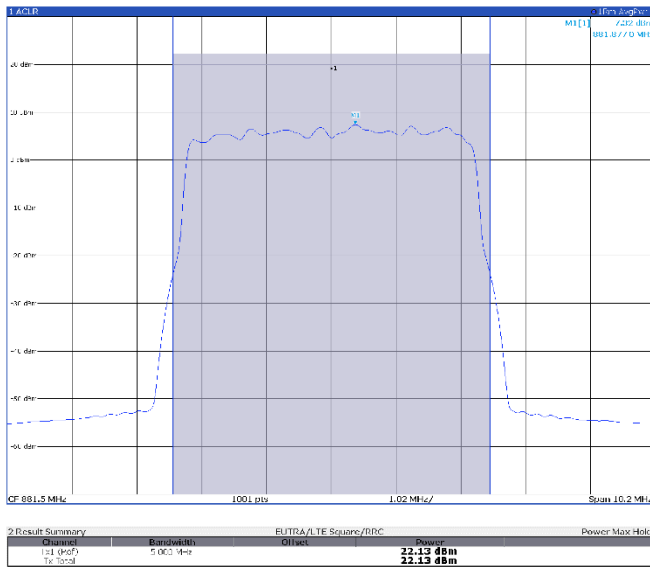
TM3p1a, 5 MHz, high channel



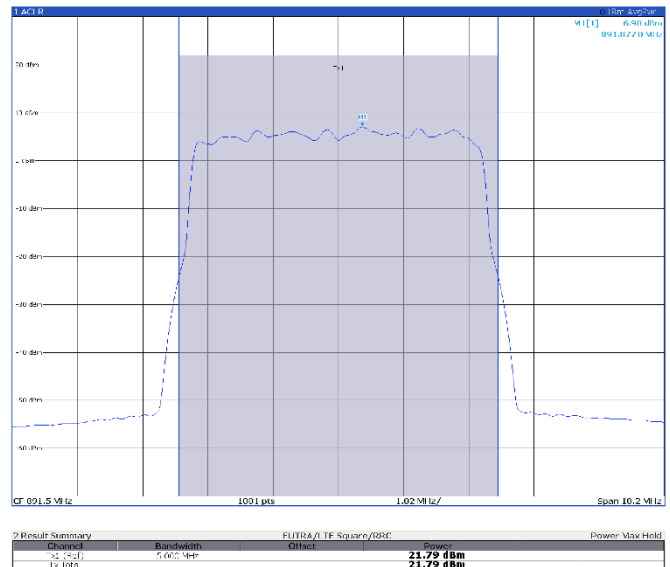
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel



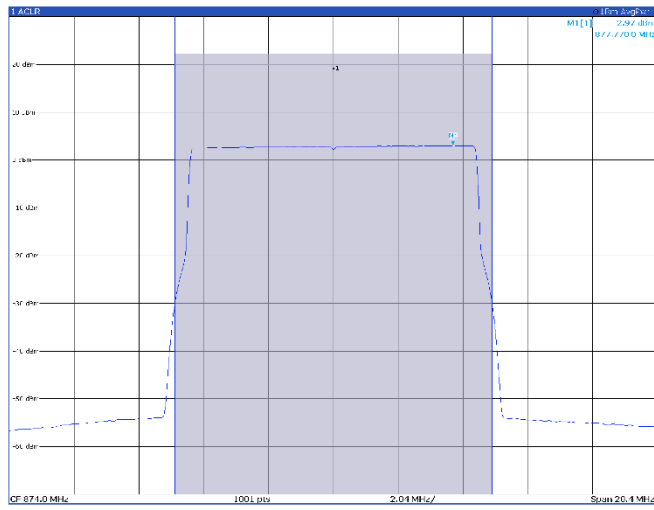
TM3p3, 5 MHz, high channel



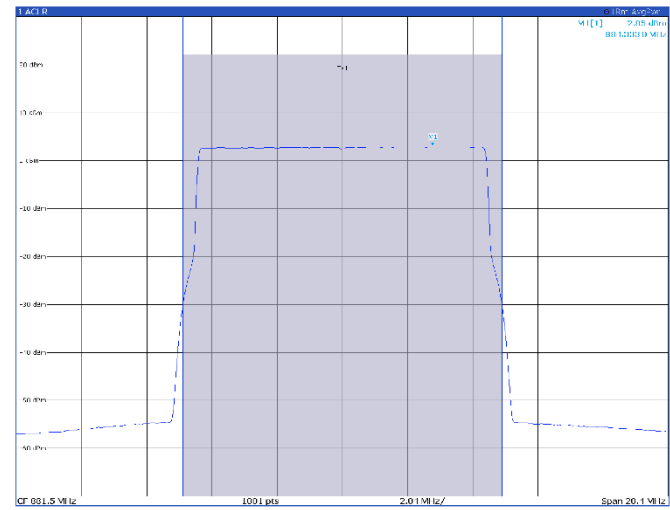
Band B5

10 MHz

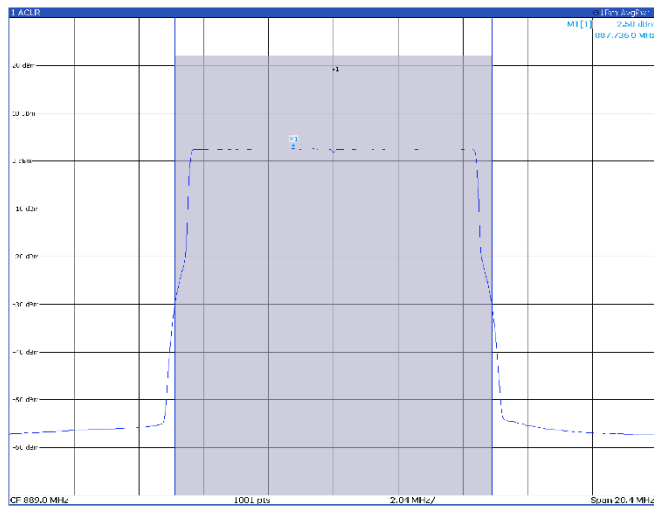
TM1.1, 10 MHz, low channel



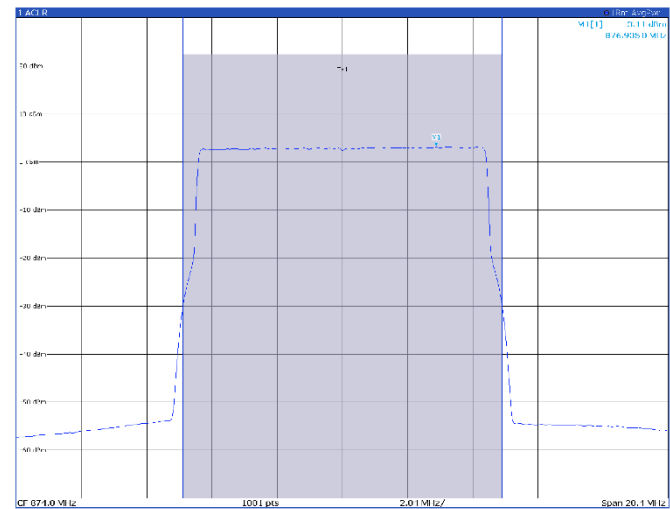
TM1.1, 10 MHz, mid channel



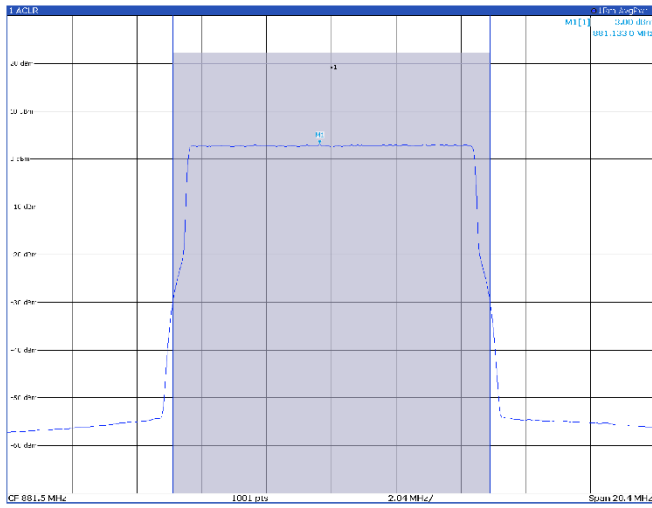
TM1.1, 10 MHz, high channel



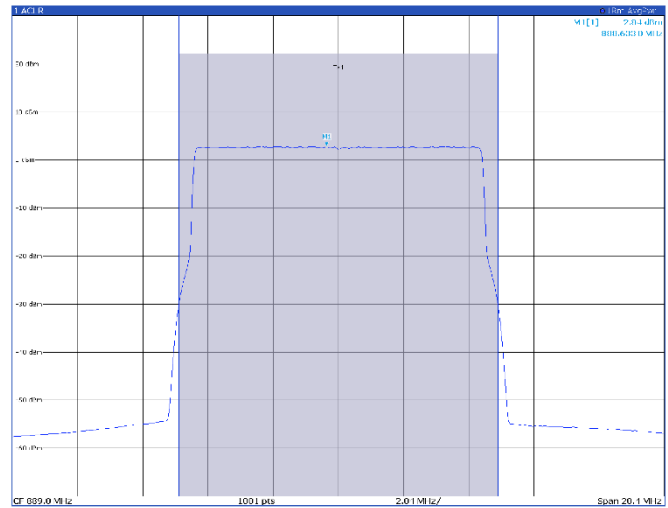
TM3p1, 10 MHz, low channel



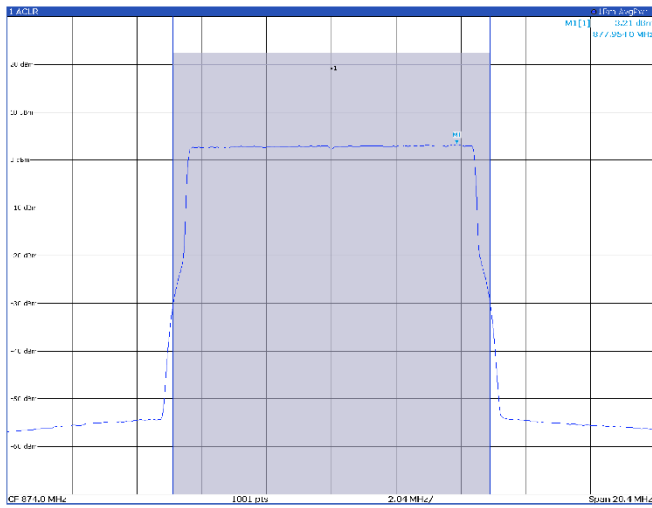
TM3p1, 10 MHz, mid channel



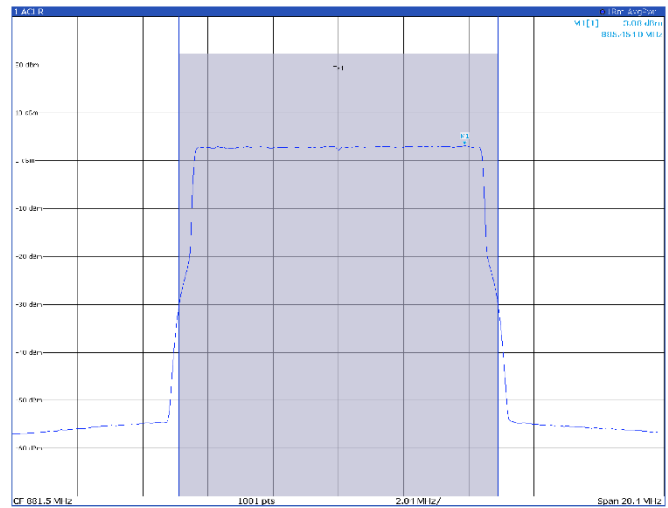
TM3p1, 10 MHz, high channel



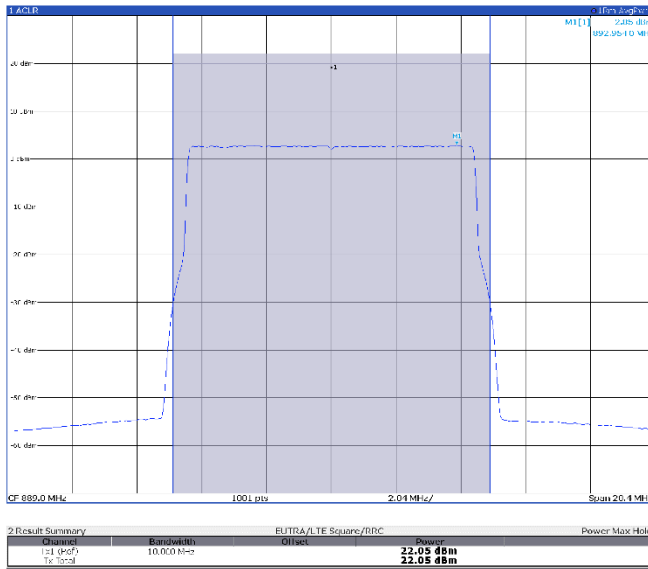
TM3p1a, 10 MHz, low channel



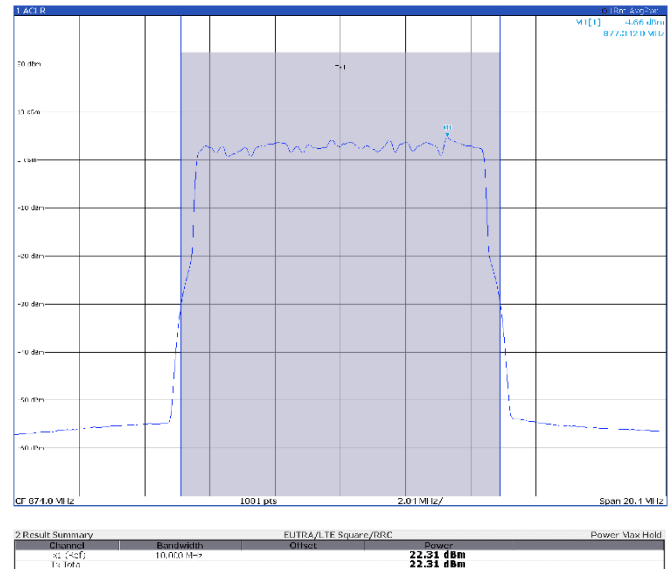
TM3p1a, 10 MHz, mid channel



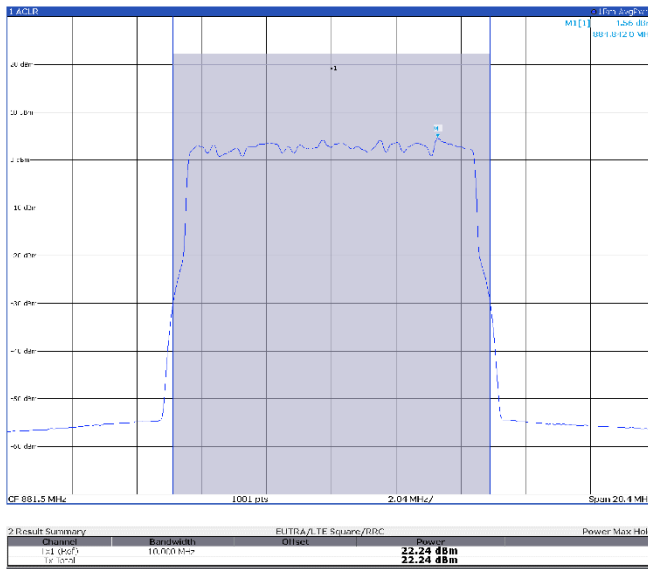
TM3p1a, 10 MHz, high channel



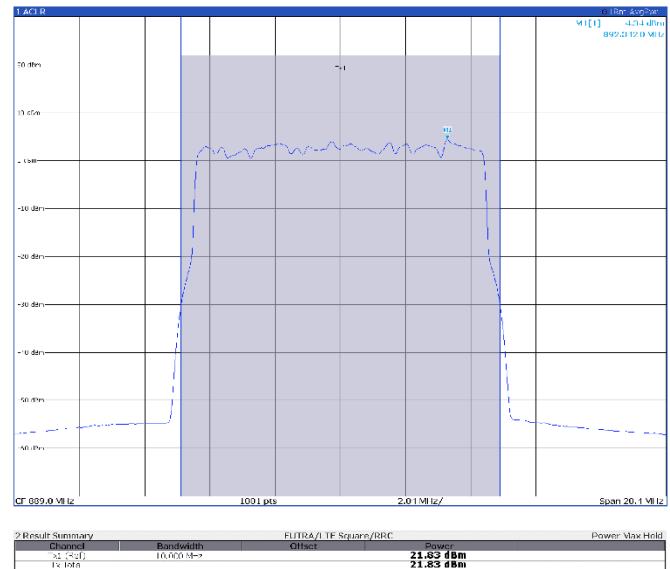
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



TM3p3, 10 MHz, high channel

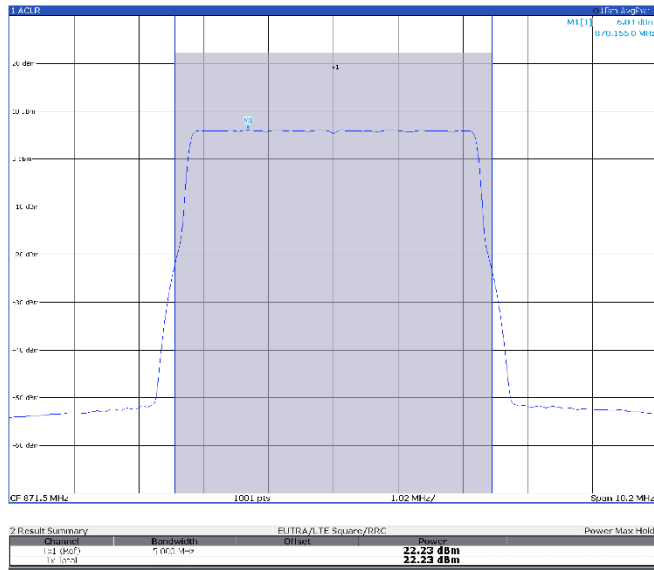


Antenna port 2

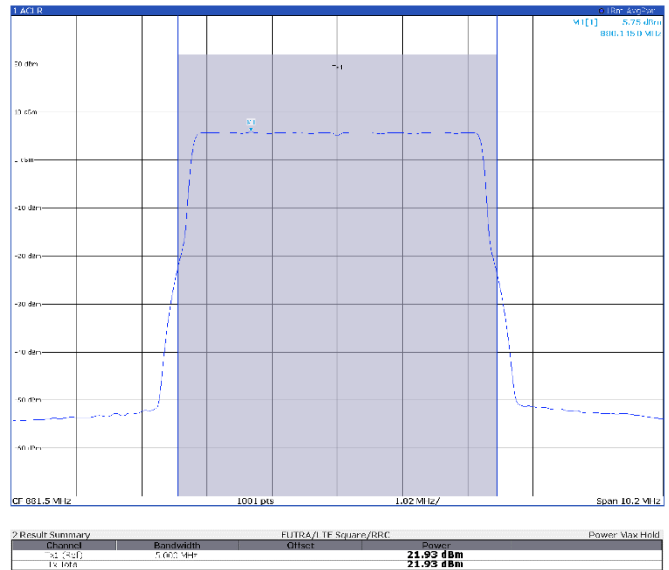
Band B5

5 MHz

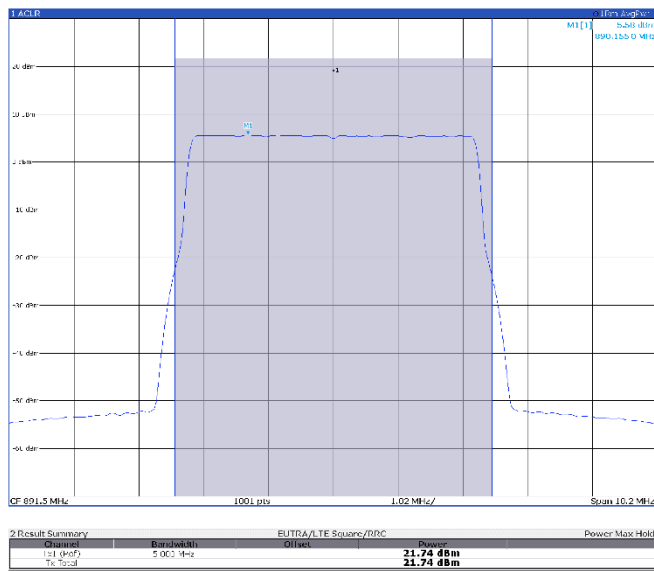
TM1.1, 5 MHz, low channel



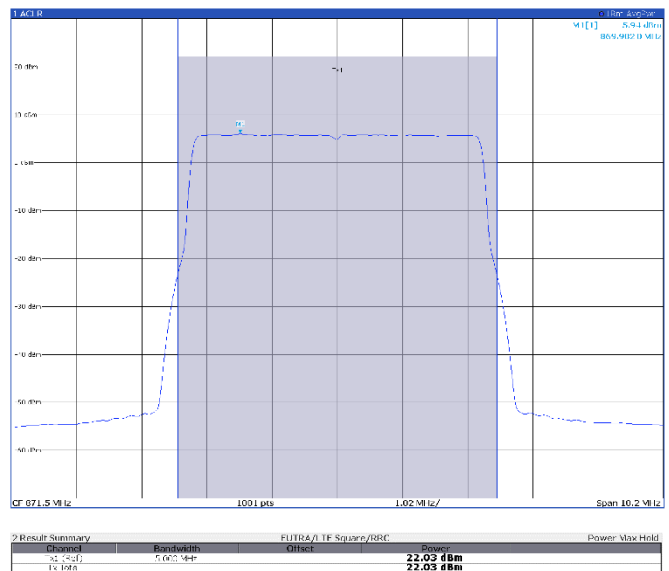
TM1.1, 5 MHz, mid channel



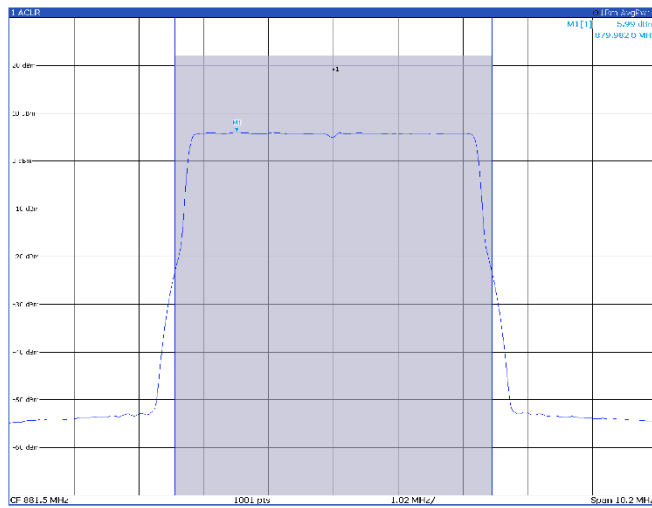
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

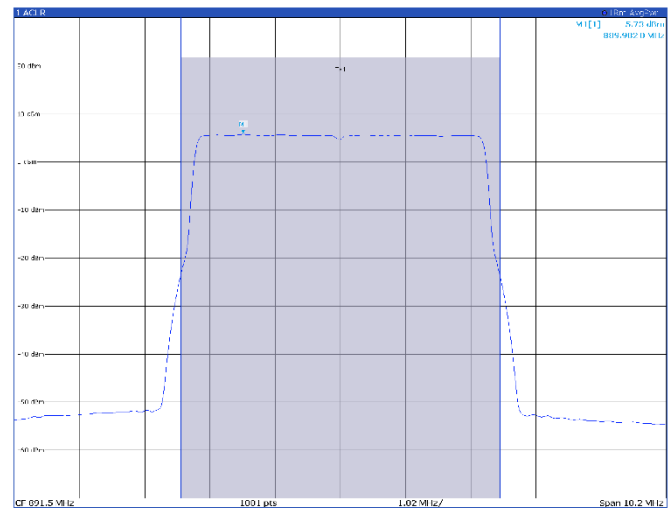


TM3p1, 5 MHz, mid channel



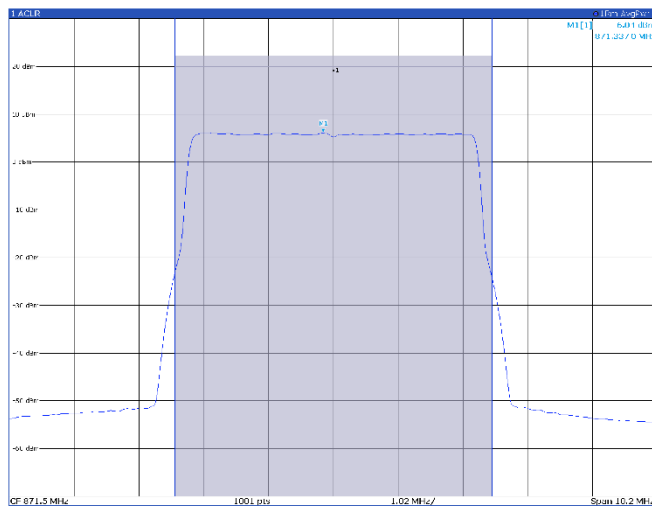
2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dBm)	5.000 MHz		22.03 dBm
1c Total			22.03 dBm

TM3p1, 5 MHz, high channel



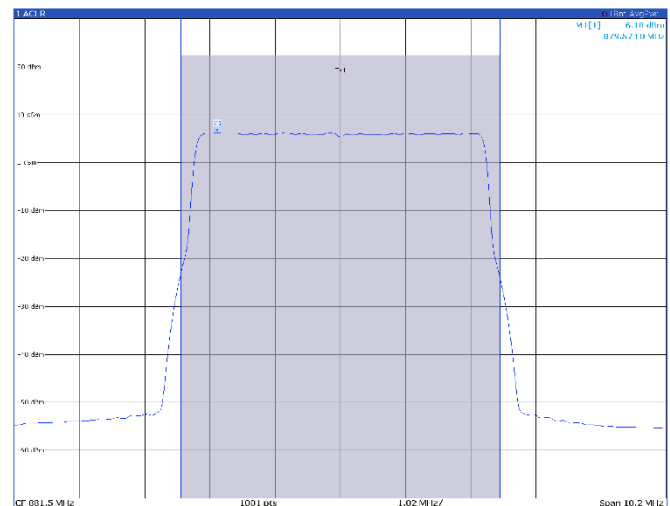
2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dBm)	5.000 MHz		21.76 dBm
1c Total			21.76 dBm

TM3p1a, 5 MHz, low channel



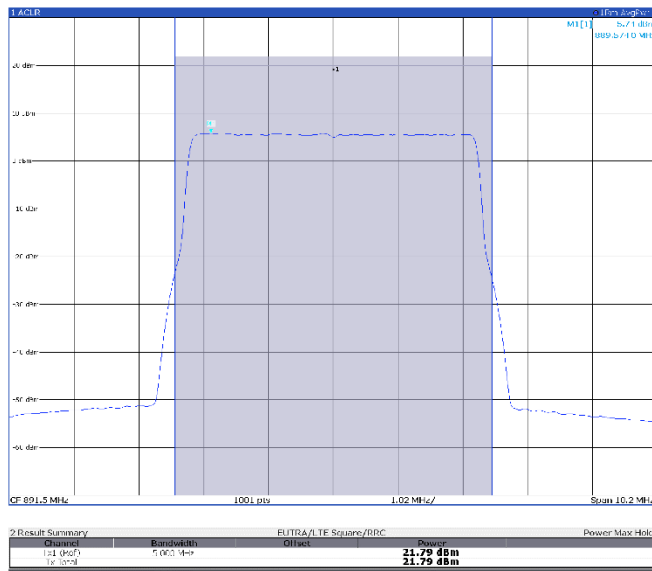
2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dBm)	5.000 MHz		22.14 dBm
1c Total			22.14 dBm

TM3p1a, 5 MHz, mid channel

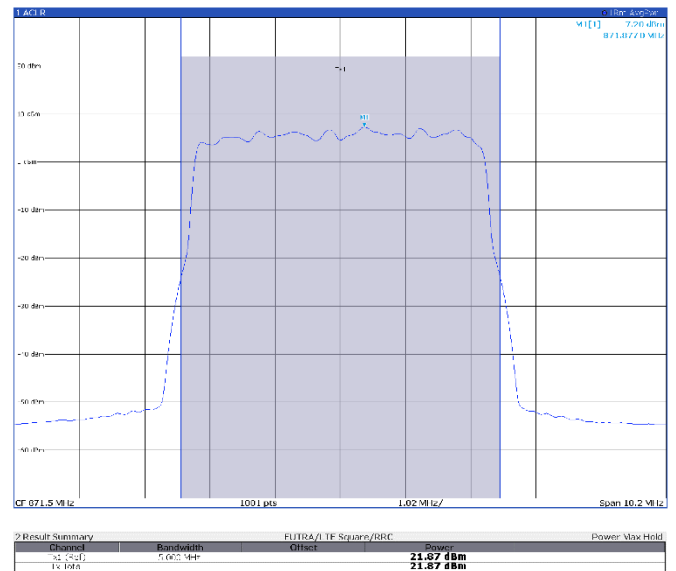


2 Result Summary			
Channel	Bandwidth	Offset	Power
(1) (dBm)	5.000 MHz		22.28 dBm
1c Total			22.28 dBm

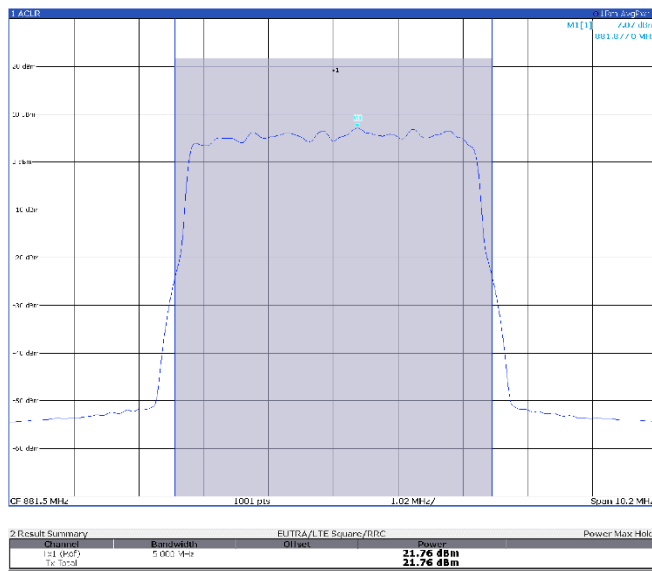
TM3p1a, 5 MHz, high channel



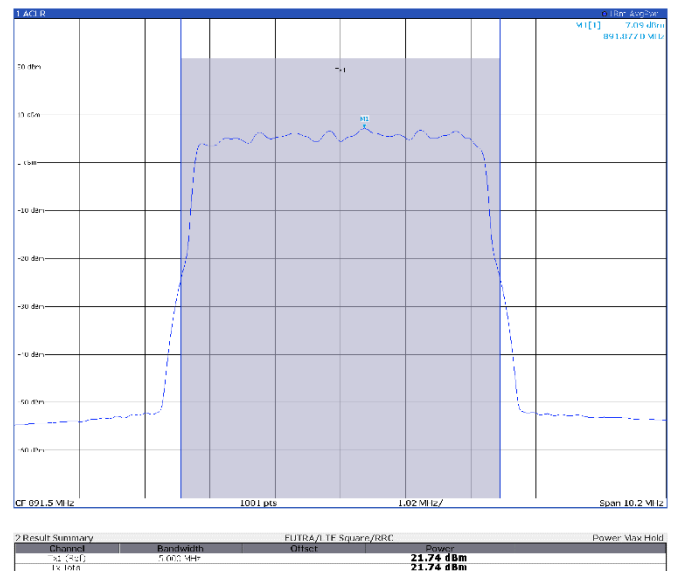
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel



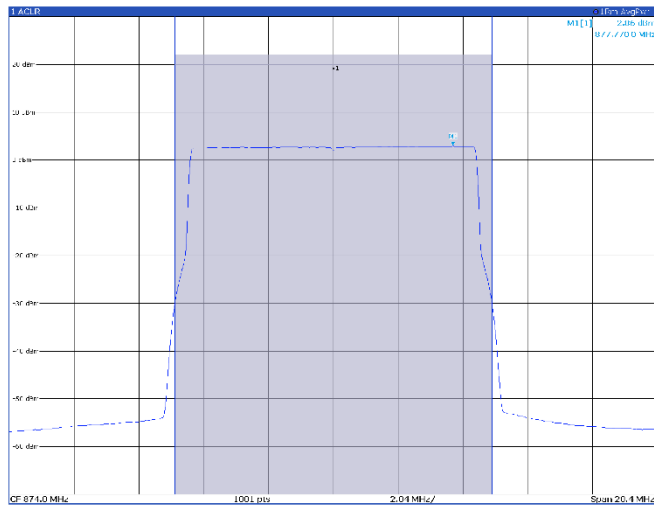
TM3p3, 5 MHz, high channel



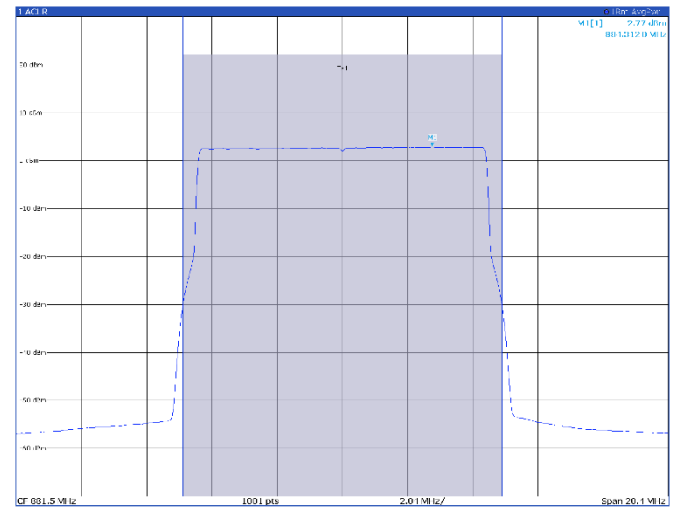
Band B5

10 MHz

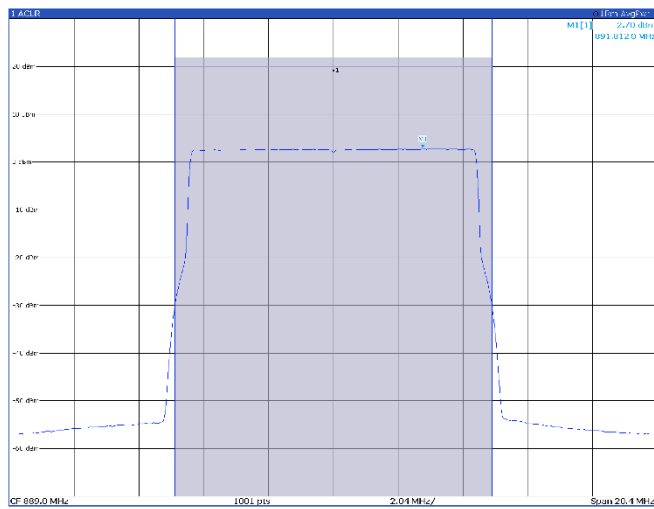
TM1.1, 10 MHz, low channel



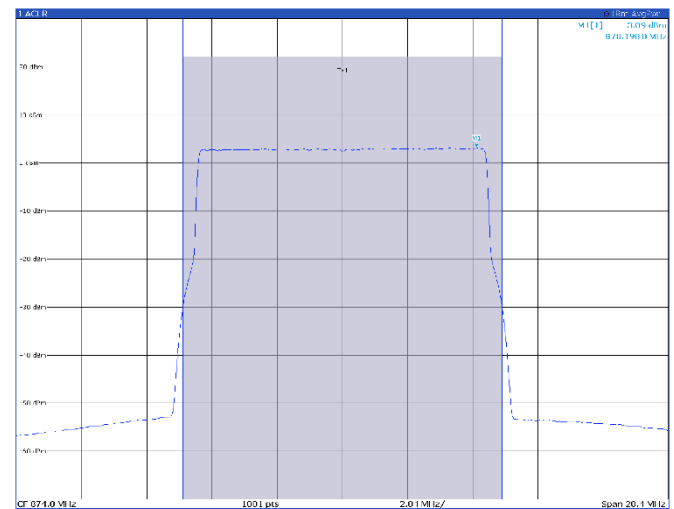
TM1.1, 10 MHz, mid channel



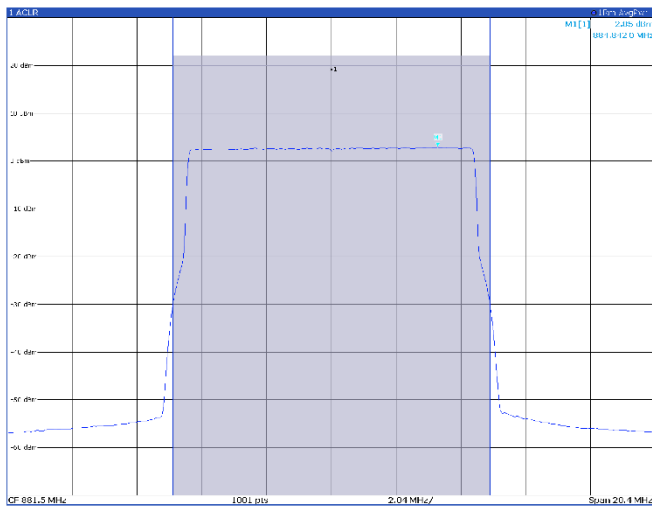
TM1.1, 10 MHz, high channel



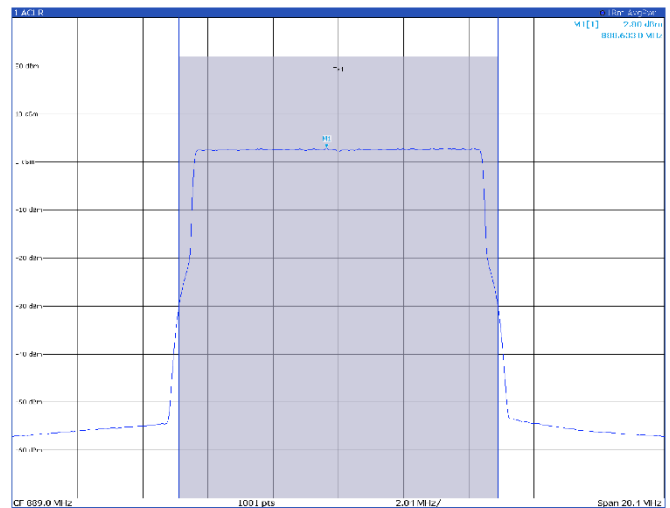
TM3p1, 10 MHz, low channel



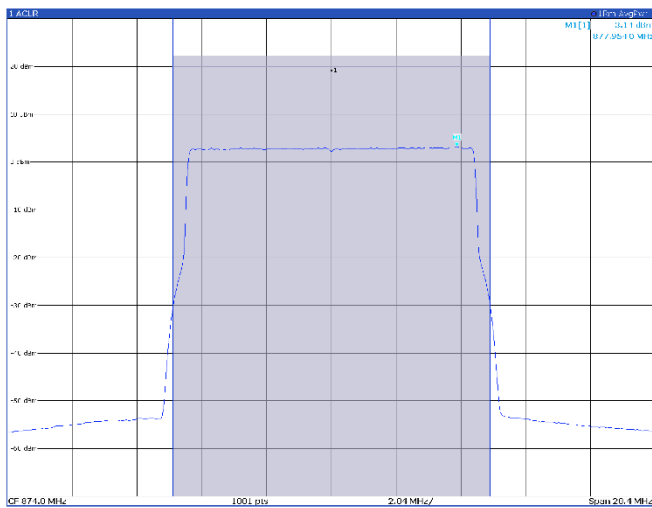
TM3p1, 10 MHz, mid channel



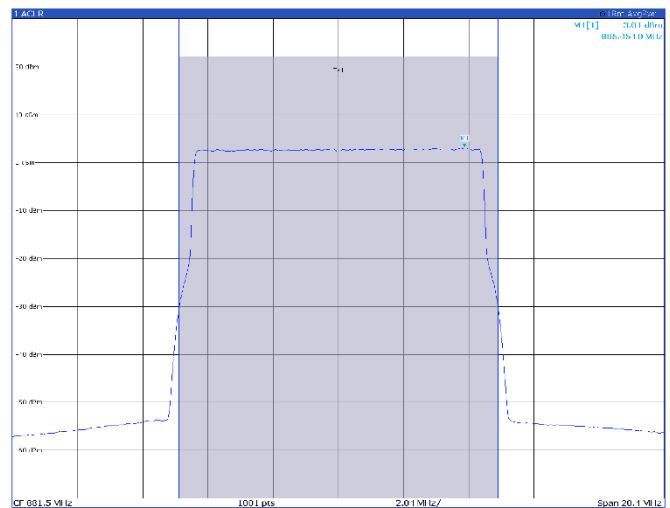
TM3p1, 10 MHz, high channel



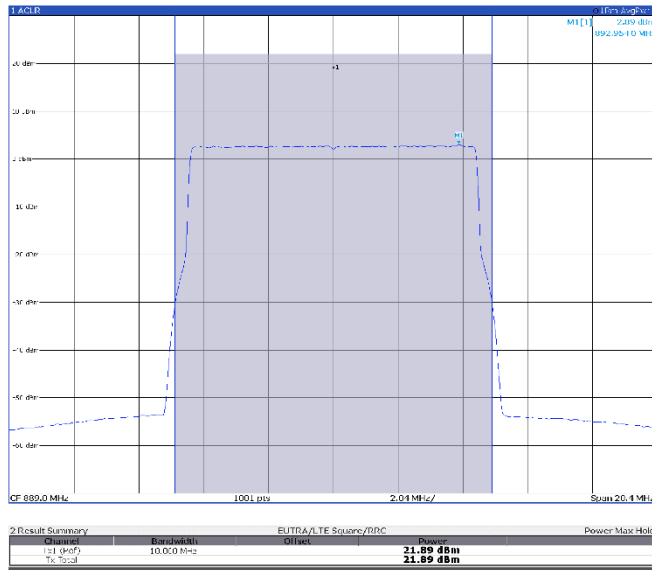
TM3p1a, 10 MHz, low channel



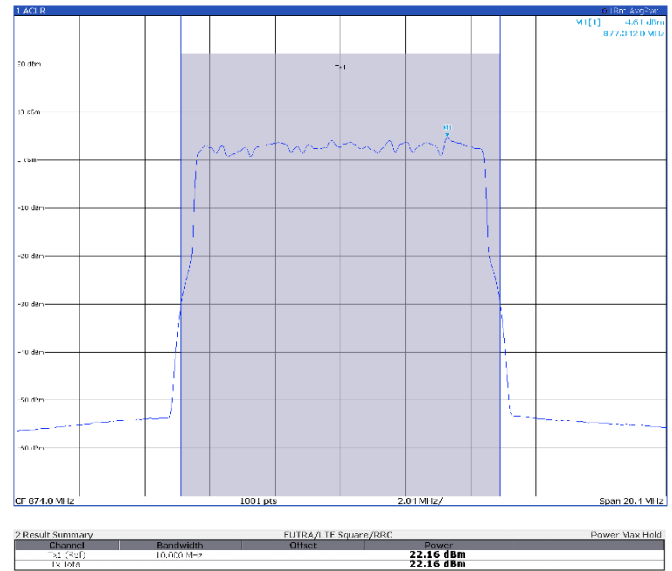
TM3p1a, 10 MHz, mid channel



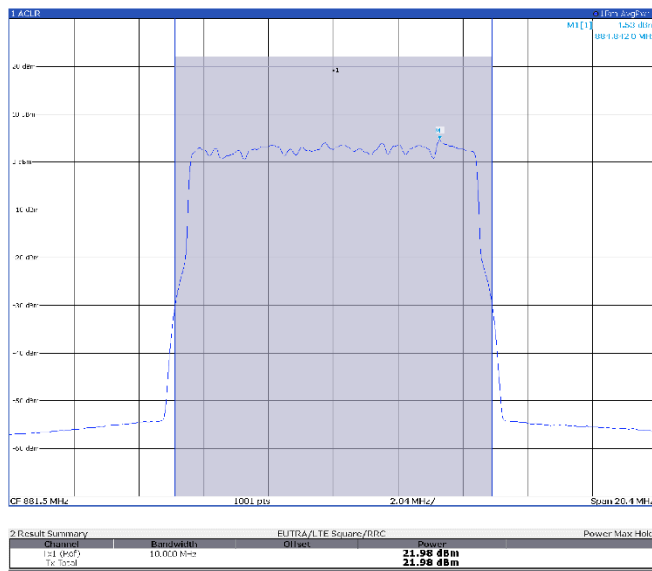
TM3p1a, 10 MHz, high channel



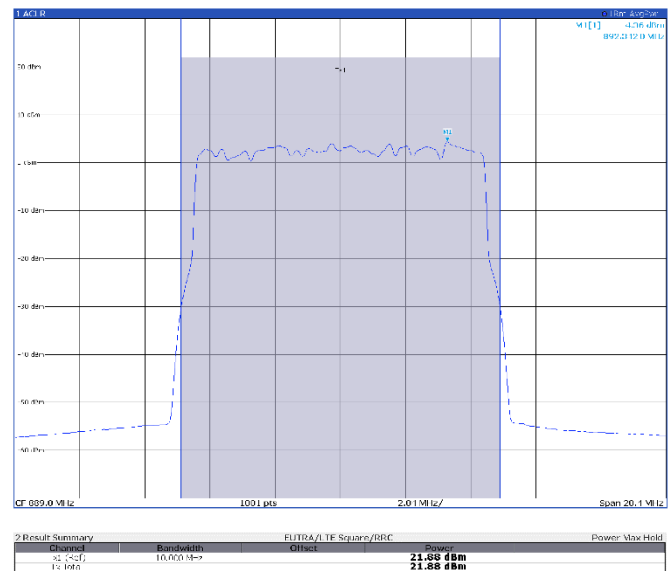
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



TM3p3, 10 MHz, high channel



8.5 FCC 22.913(d) Effective radiated power limits - Peak to Average Power Ratio

8.5.1 Definitions and limits

(d) **Power measurements** Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

8.5.2 Test summary

Test start date	October 22, 2024	Temperature	22 °C
Test end date	October 25, 2024	Air pressure	1001 mbar
Test engineer	O. Frau	Relative humidity	62%
Verdict	Pass		

8.5.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.2.3.4.

Spectrum analyzer settings:

Resolution bandwidth	≥ OBW
Number of counts	The necessary number up to stabilizes the measured
Trace mode	Clear/Write

8.5.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.5.5 Test data

Antenna 1

Band B5:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	1	871.5	8.56	13	-4.44
B5	5 MHz	1	881.5	8.56	13	-4.44
B5	5 MHz	1	891.5	8.44	13	-4.56

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	1	871.5	8.38	13	-4.62
B5	5 MHz	1	881.5	8.42	13	-4.58
B5	5 MHz	1	891.5	8.46	13	-4.54

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	1	871.5	8.28	13	-4.72
B5	5 MHz	1	881.5	8.30	13	-4.70
B5	5 MHz	1	891.5	8.28	13	-4.72

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	1	871.5	8.36	13	-4.64
B5	5 MHz	1	881.5	8.36	13	-4.64
B5	5 MHz	1	891.5	8.36	13	-4.64

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	1	874.0	8.34	13	-4.66
B5	10 MHz	1	881.5	8.34	13	-4.66
B5	10 MHz	1	889.0	8.60	13	-4.40

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	1	874.0	8.42	13	-4.58
B5	10 MHz	1	881.5	8.30	13	-4.70
B5	10 MHz	1	889.0	8.56	13	-4.44

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	1	874.0	8.36	13	-4.64
B5	10 MHz	1	881.5	8.38	13	-4.62
B5	10 MHz	1	889.0	8.36	13	-4.64

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	1	874.0	8.48	13	-4.52
B5	10 MHz	1	881.5	8.46	13	-4.54
B5	10 MHz	1	889.0	8.48	13	-4.52

Peak to average power ratio, TM3p3

Antenna 2

Band B5:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	2	871.5	8.52	13	-4.48
B5	5 MHz	2	881.5	8.52	13	-4.48
B5	5 MHz	2	891.5	8.56	13	-4.44

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	2	871.5	8.34	13	-4.66
B5	5 MHz	2	881.5	8.44	13	-4.56
B5	5 MHz	2	891.5	8.40	13	-4.60

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	2	871.5	8.22	13	-4.78
B5	5 MHz	2	881.5	8.32	13	-4.68
B5	5 MHz	2	891.5	8.26	13	-4.74

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	5 MHz	2	871.5	8.36	13	-4.64
B5	5 MHz	2	881.5	8.40	13	-4.60
B5	5 MHz	2	891.5	8.40	13	-4.60

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	2	874.0	8.34	13	-4.66
B5	10 MHz	2	881.5	8.56	13	-4.44
B5	10 MHz	2	889.0	8.46	13	-4.54

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	2	874.0	8.44	13	-4.56
B5	10 MHz	2	881.5	8.38	13	-4.62
B5	10 MHz	2	889.0	8.56	13	-4.44

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	2	874.0	8.42	13	-4.58
B5	10 MHz	2	881.5	8.36	13	-4.64
B5	10 MHz	2	889.0	8.42	13	-4.58

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
B5	10 MHz	2	874.0	8.50	13	-4.50
B5	10 MHz	2	881.5	8.50	13	-4.50
B5	10 MHz	2	889.0	8.50	13	-4.50

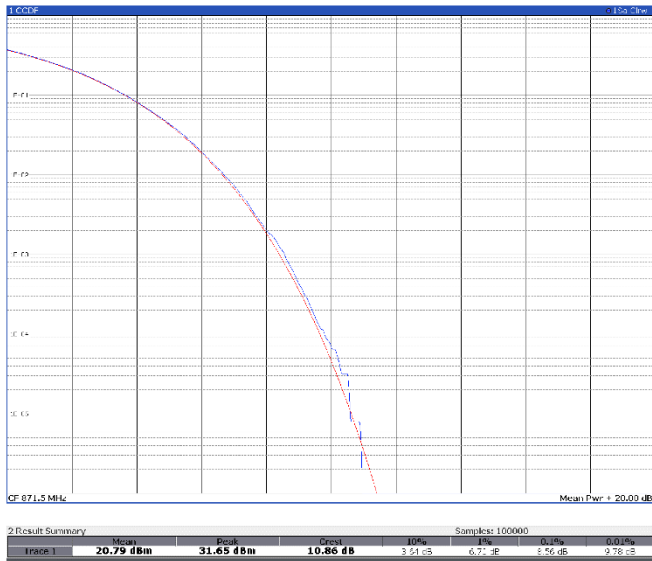
Peak to average power ratio, TM3p3

Antenna port 1

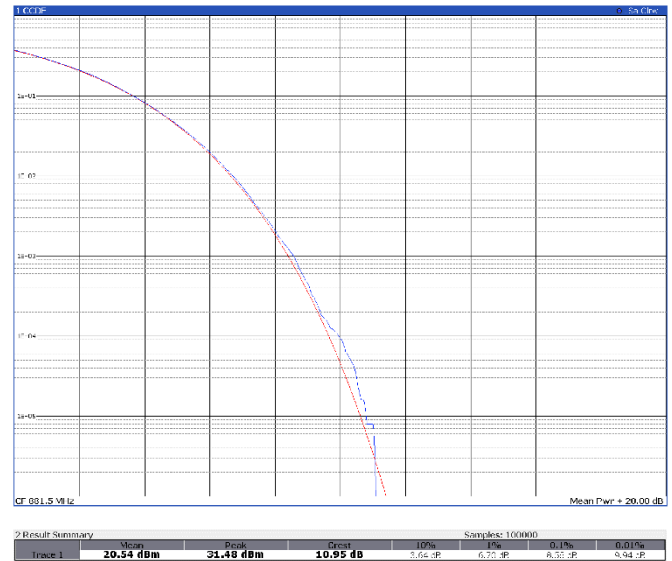
Band B5

5 MHz

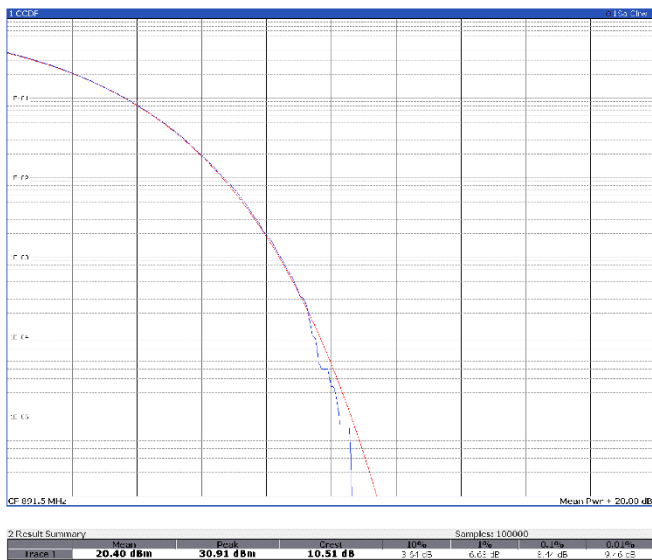
TM1.1, 5 MHz, low channel



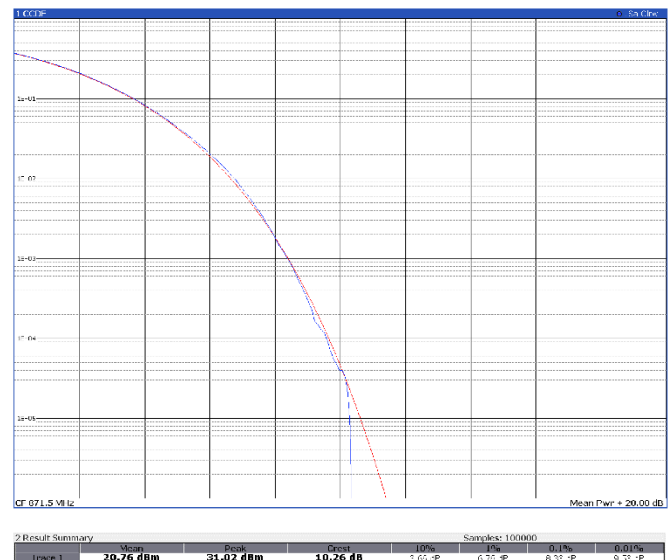
TM1.1, 5 MHz, mid channel



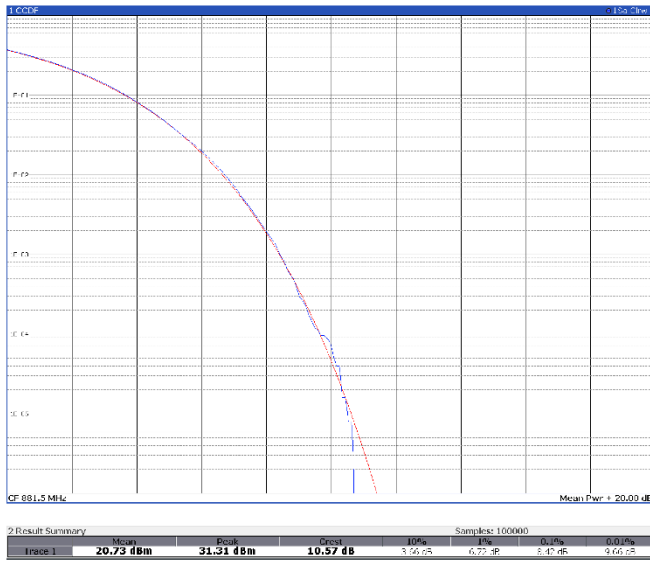
TM1.1, 5 MHz, high channel



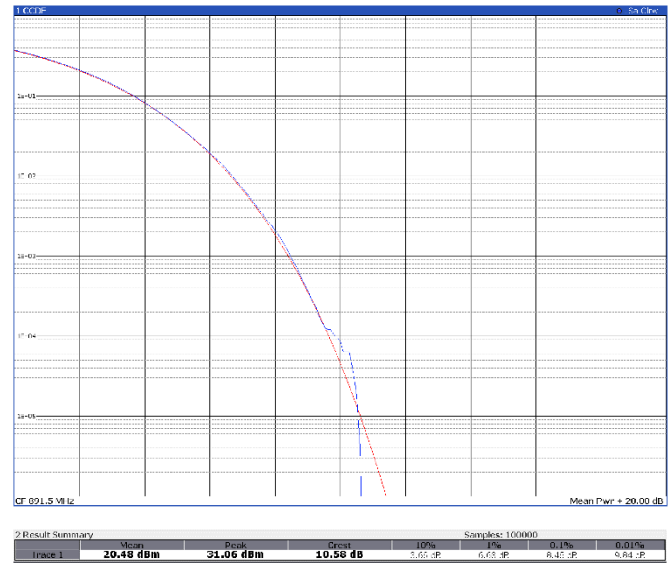
TM3p1, 5 MHz, low channel



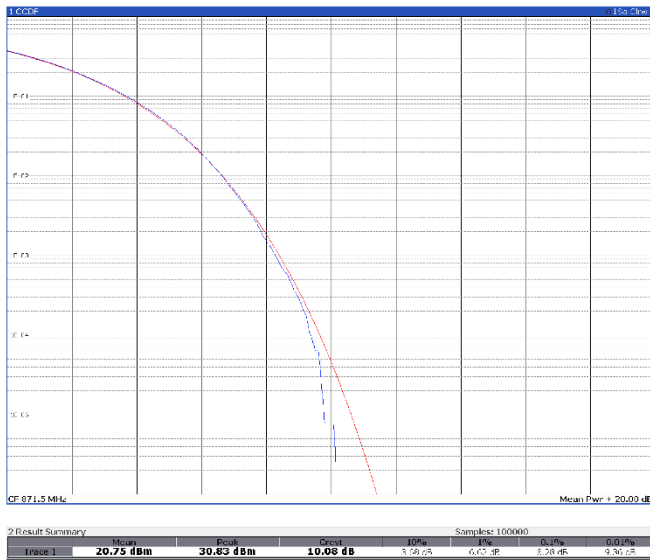
TM3p1, 5 MHz, mid channel



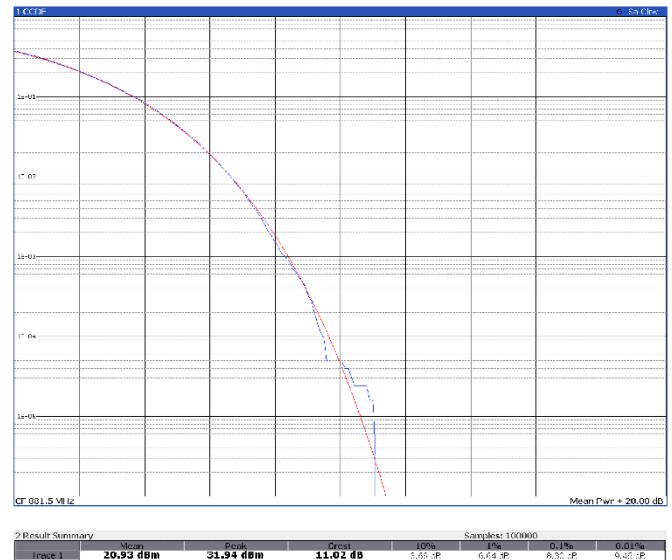
TM3p1, 5 MHz, high channel



TM3p1a, 5 MHz, low channel



TM3p1a, 5 MHz, mid channel

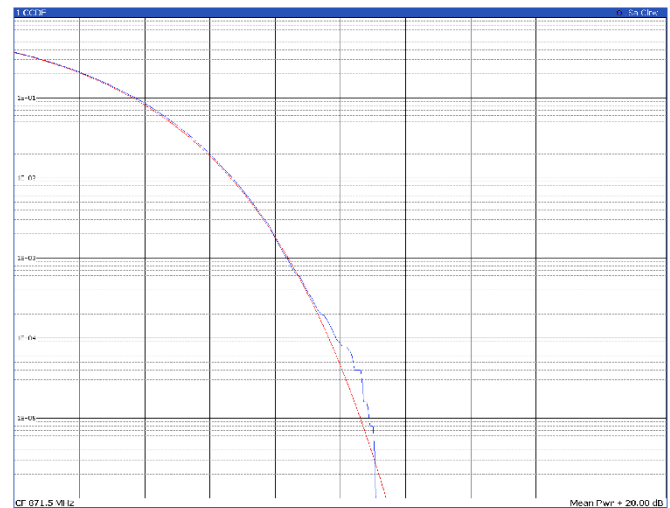


TM3p1a, 5 MHz, high channel



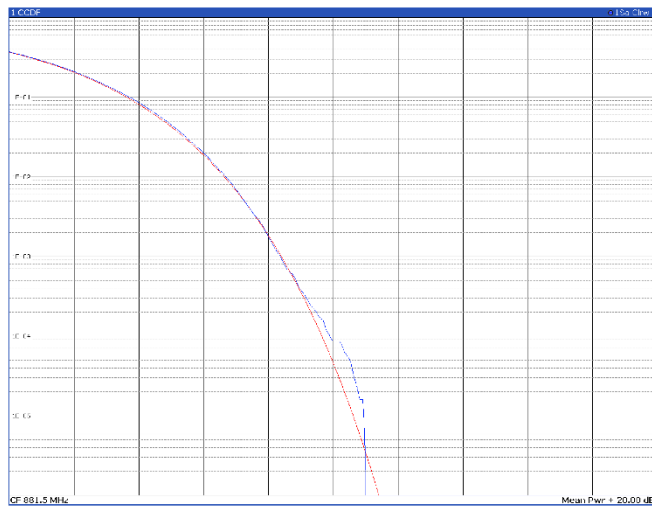
2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.43 dBm	31.46 dBm	11.03 dB	3.58 dB	6.64 dB	5.28 dB	9.26 dB

TM3p3, 5 MHz, low channel



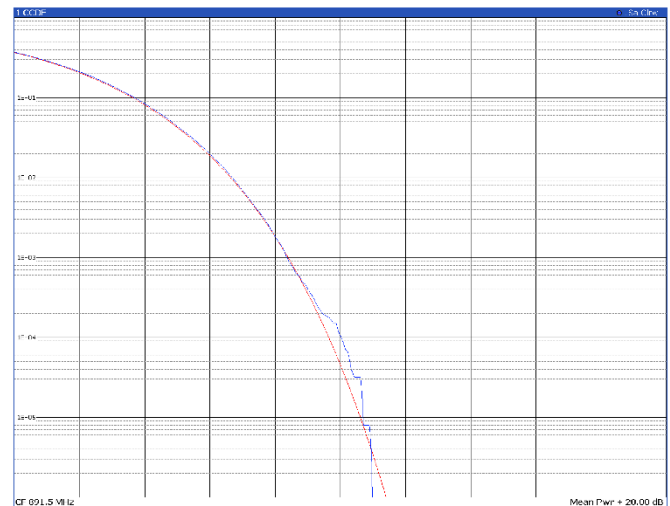
2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.76 dBm	31.77 dBm	11.01 dB	3.75 dB	6.55 dB	6.51 dB	8.81 dB

TM3p3, 5 MHz, mid channel



2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.92 dBm	31.85 dBm	10.93 dB	3.77 dB	6.52 dB	5.56 dB	8.90 dB

TM3p3, 5 MHz, high channel

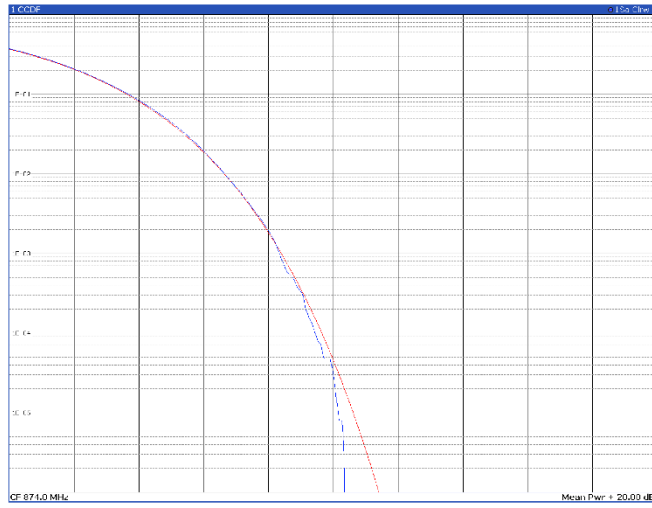


2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.61 dBm	31.53 dBm	10.91 dB	3.63 dB	6.43 dB	6.31 dB	11.02 dB

Band B5

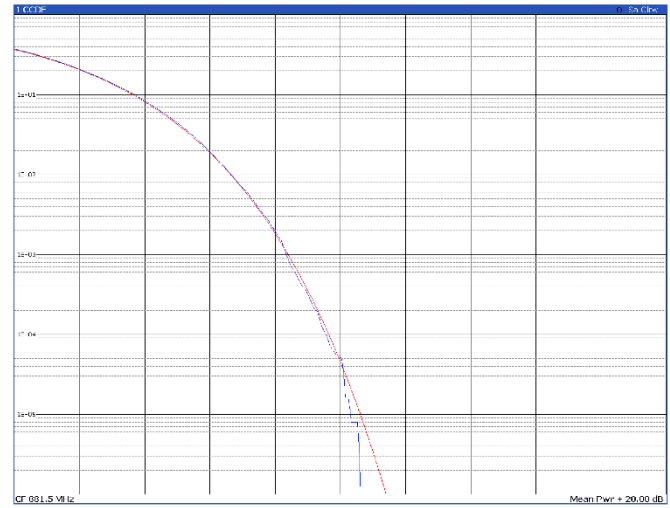
10 MHz

TM1.1, 10 MHz, low channel



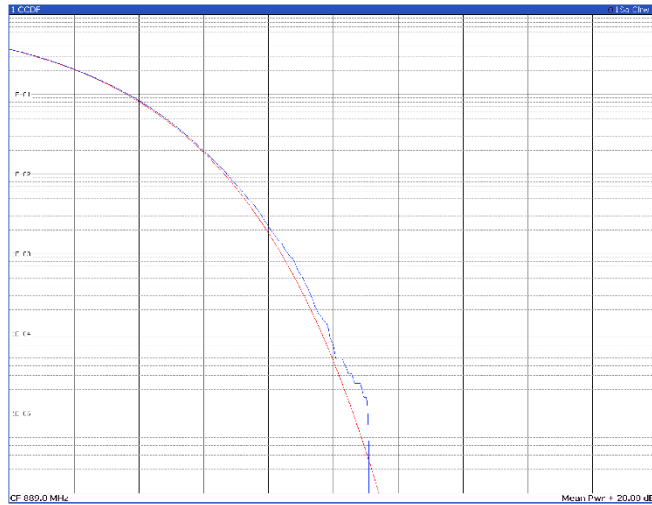
2 Result Summary						
Samples: 100000						
Trace 1	Mean	Peak	Crest	10%	1%	0.1%
	17.81 dBm	28.11 dBm	10.30 dB	3.58 dB	6.61 dB	8.17 dB

TM1.1, 10 MHz, mid channel



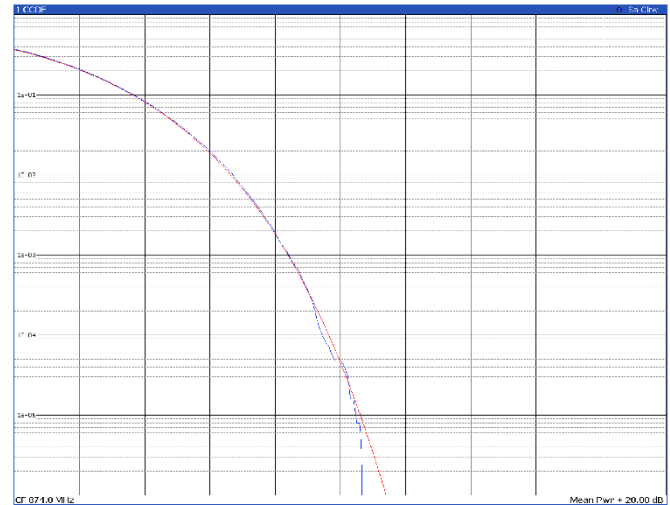
2 Result Summary						
Samples: 100000						
Trace 1	Mean	Peak	Crest	10%	1%	0.1%
	17.82 dBm	28.35 dBm	10.53 dB	3.63 dB	6.64 dB	8.18 dB

TM1.1, 10 MHz, high channel



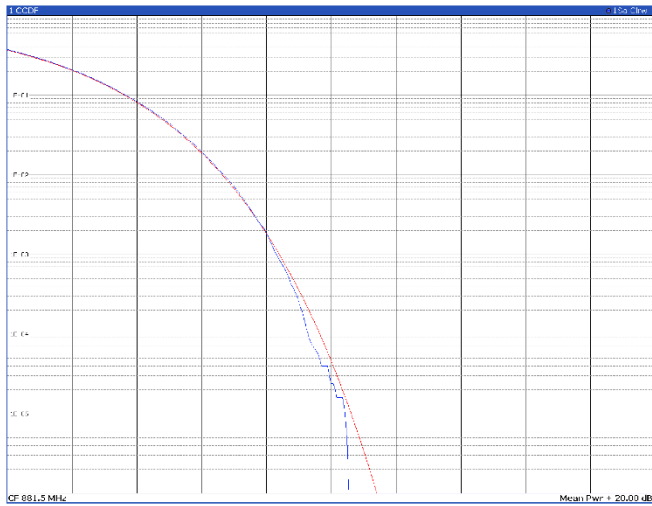
2 Result Summary						
Samples: 100000						
Trace 1	Mean	Peak	Crest	10%	1%	0.1%
	17.57 dBm	28.62 dBm	11.04 dB	3.58 dB	6.72 dB	8.50 dB

TM3p1, 10 MHz, low channel



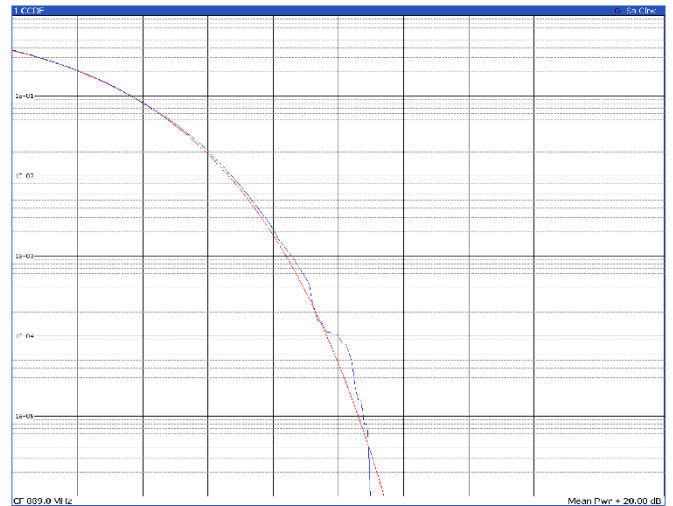
2 Result Summary						
Samples: 100000						
Trace 1	Mean	Peak	Crest	10%	1%	0.1%
	17.87 dBm	28.49 dBm	10.62 dB	3.66 dB	6.70 dB	8.40 dB

TM3p1, 10 MHz, mid channel



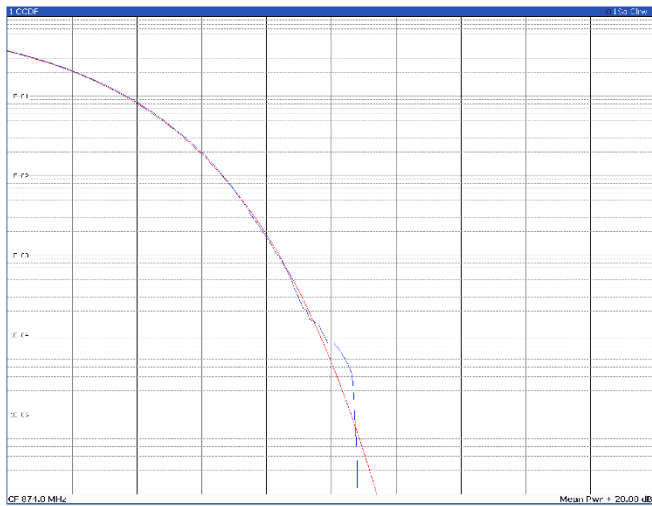
2 Result Summary		Sample: 100000	
Trace 1	Mean	Peak	Crest
	17.80 dBm	28.28 dBm	10.48 dB
			10%
			1%
			0.1%
			0.01%

TM3p1, 10 MHz, high channel



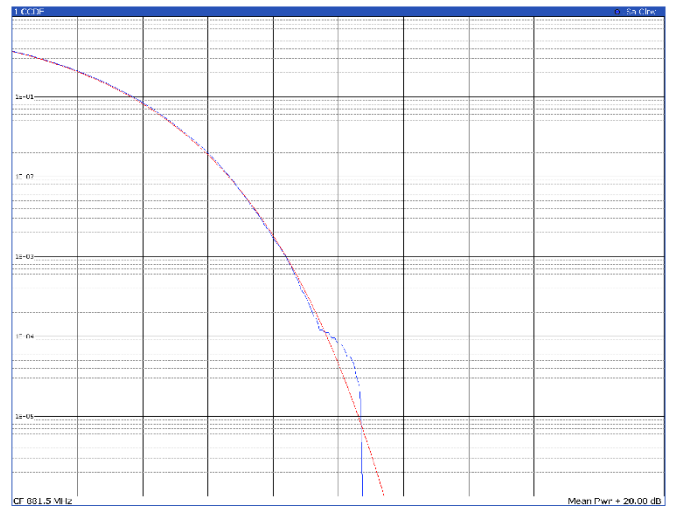
2 Result Summary		Sample: 100000	
Trace 1	Mean	Peak	Crest
	17.62 dBm	28.48 dBm	10.66 dB
			10%
			1%
			0.1%
			0.01%

TM3p1a, 10 MHz, low channel



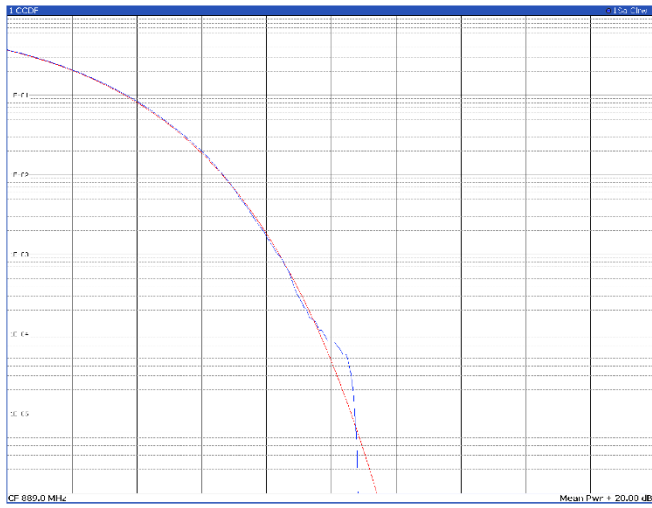
2 Result Summary		Sample: 100000	
Trace 1	Mean	Peak	Crest
	17.82 dBm	28.51 dBm	10.69 dB
			10%
			1%
			0.1%
			0.01%

TM3p1a, 10 MHz, mid channel



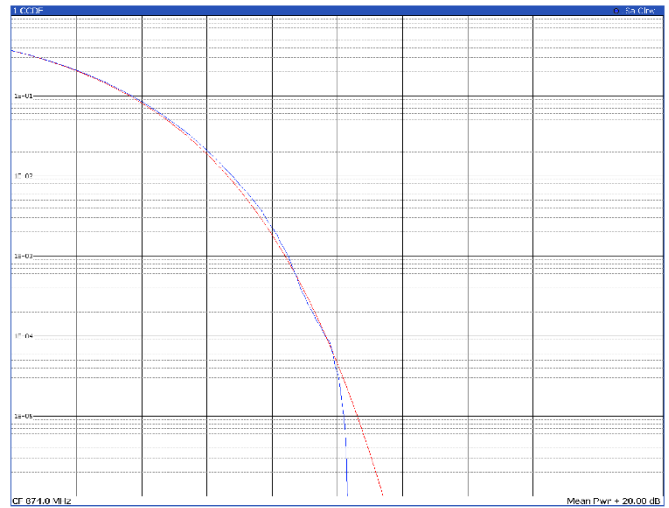
2 Result Summary		Sample: 100000	
Trace 1	Mean	Peak	Crest
	17.79 dBm	28.46 dBm	10.67 dB
			10%
			1%
			0.1%
			0.01%

TM3p1a, 10 MHz, high channel



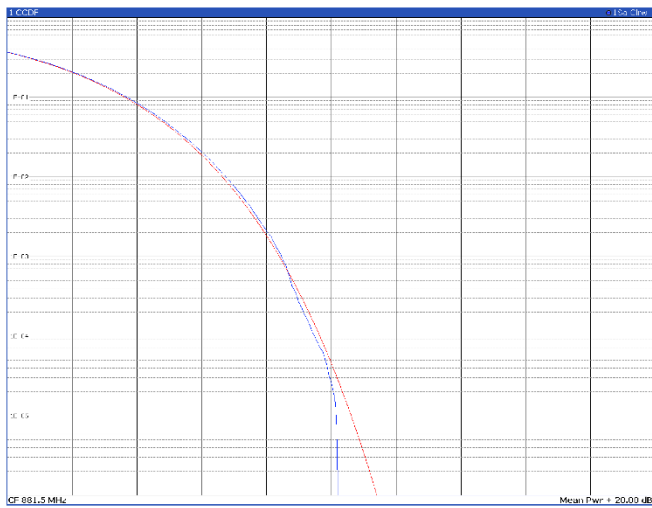
2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	17.58 dBm	28.26 dBm	10.70 dB
			3.58 dB
			0.05 dB
			0.02%
			0.02%

TM3p3, 10 MHz, low channel



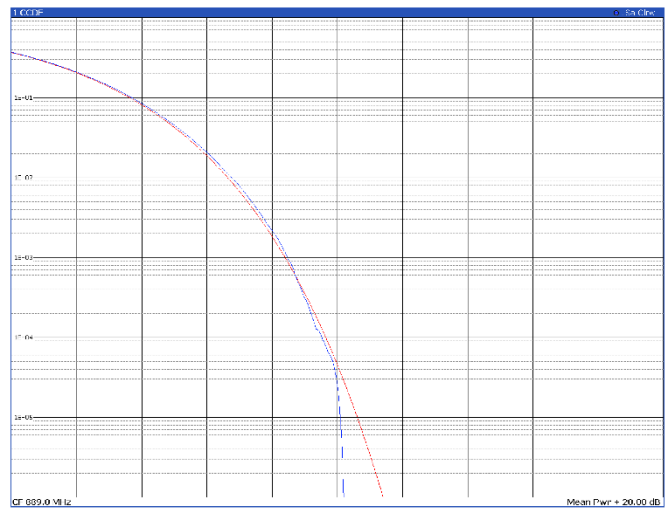
2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	17.86 dBm	28.04 dBm	10.18 dB
			3.75 dB
			0.05 dB
			0.02%
			0.02%

TM3p3, 10 MHz, mid channel



2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	17.85 dBm	28.00 dBm	10.14 dB
			3.70 dB
			0.04 dB
			0.02%
			0.02%

TM3p3, 10 MHz, high channel



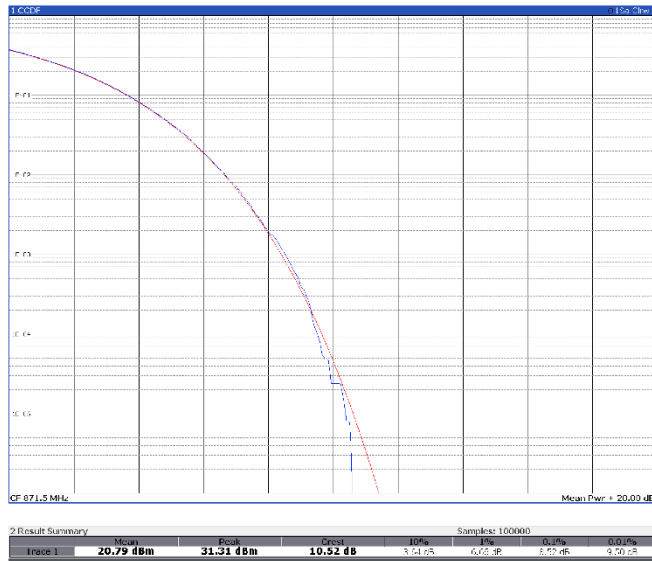
2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	17.65 dBm	27.76 dBm	10.11 dB
			3.73 dB
			0.05 dB
			0.02%
			0.02%

Antenna port 2

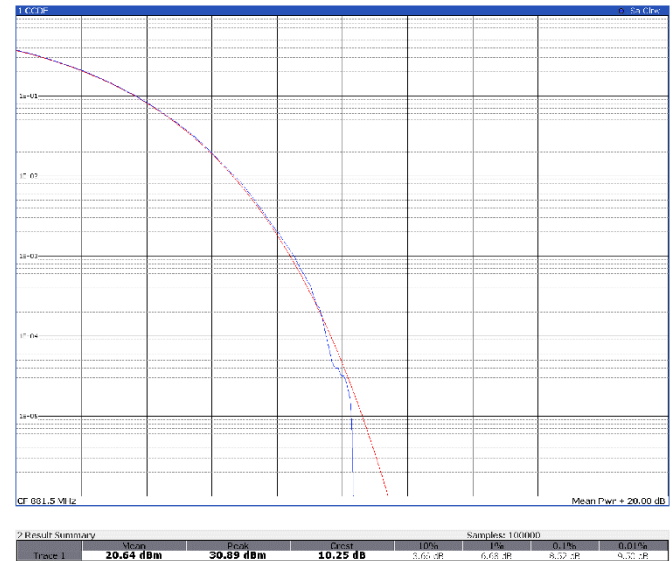
Band B5

5 MHz

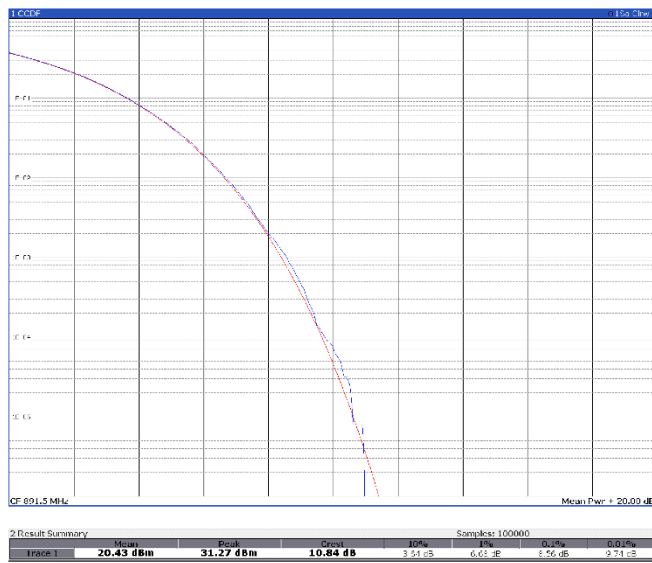
TM1.1, 5 MHz, low channel



TM1.1, 5 MHz, mid channel



TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

