RADIO TEST REPORT

REP064938

Date of issue: November 19, 2024

Applicant:

Andrew Wireless Systems

Industriering 10, Buchdorf 86675 - Germany

Product:

RPM-A61L1-05

Model:	Model variant:
7847585-01	None

FCC ID:	IC Registration number:
XS5-RPML2-B5	NA

Specifications:

- FCC 47 CFR Part 22H

  Public Mobile Services

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Limits of responsibility

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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

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

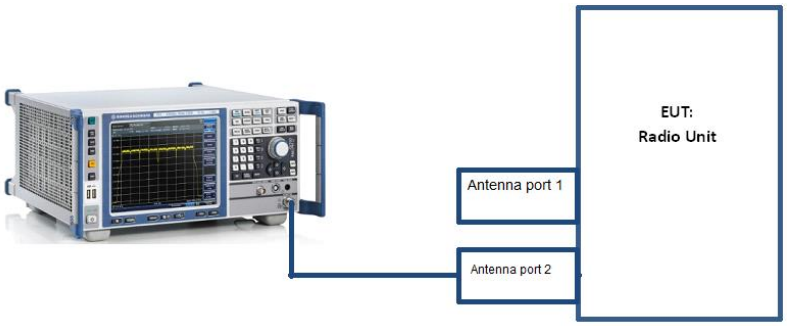
3.4 Product description and theory of operation

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



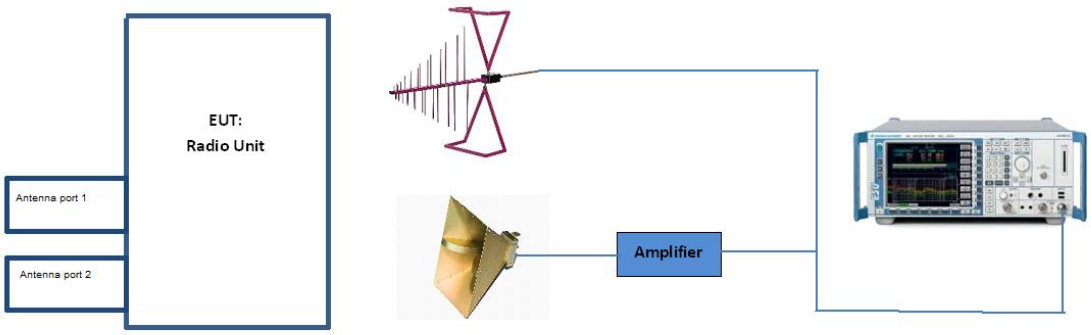


Figure 3.6-1: Setup diagram

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 ±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	(1)
		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** Errore. 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

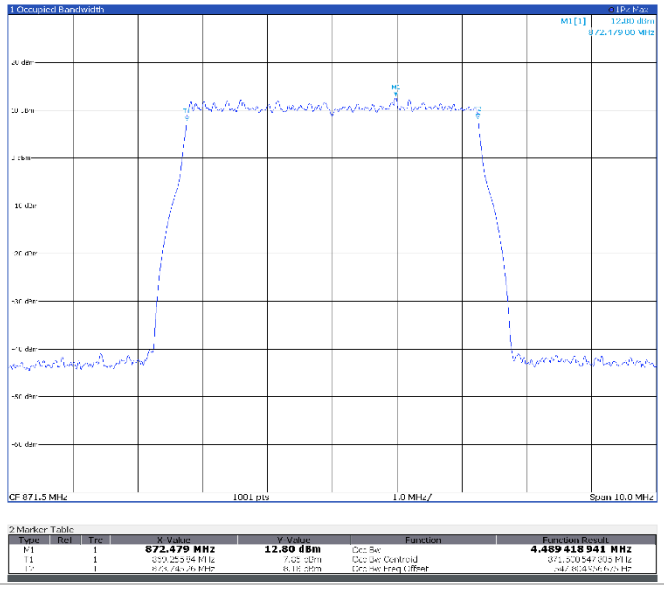
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
B5	10 MHz	TM3p1a	874.0	8.98
B5	10 MHz	TM3p1a	881.5	8.98
B5	10 MHz	TM3p1a	889.0	8.98

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

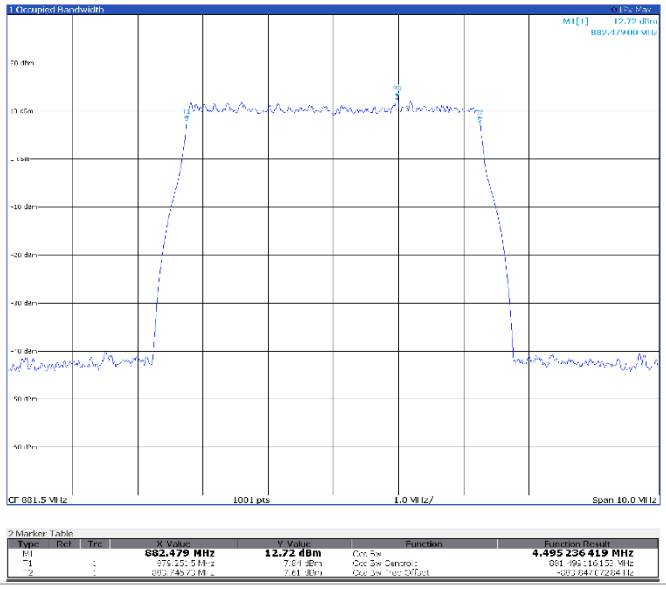
Antenna port 1

Band B5	5 MHz

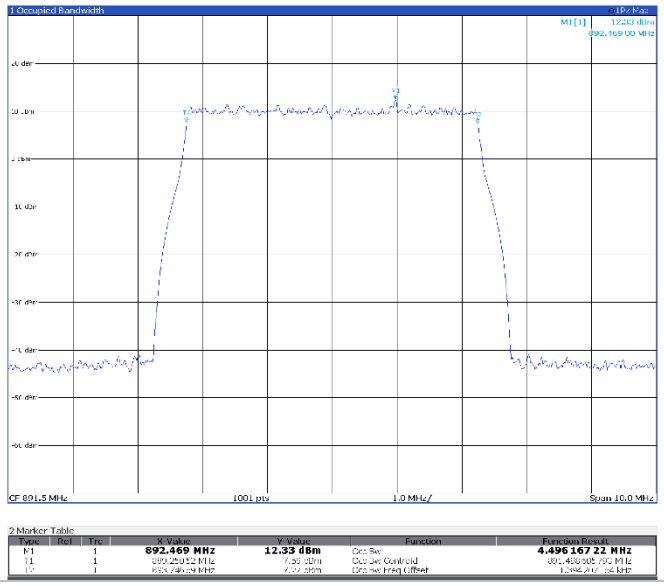
TM1.1, 5 MHz, low channel



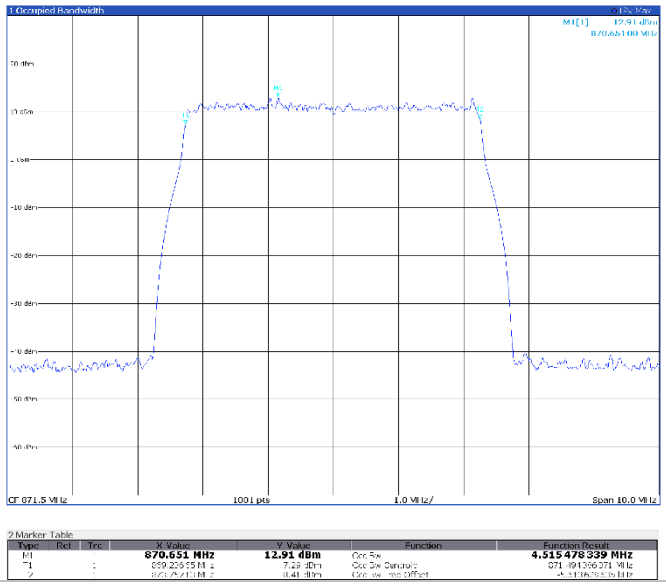
TM1.1, 5 MHz, mid channel



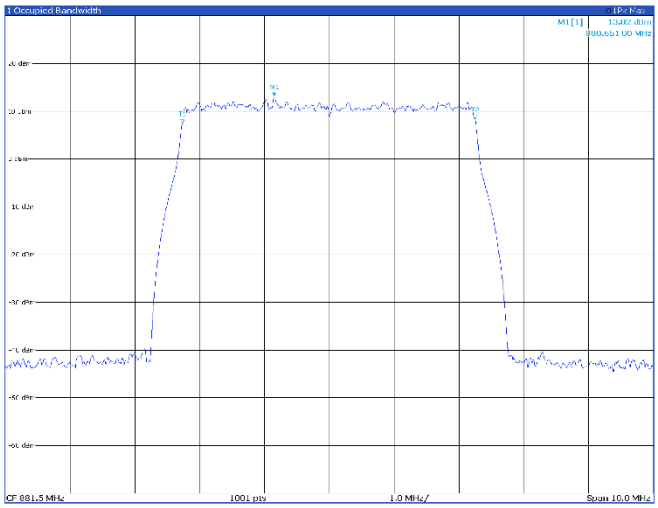
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



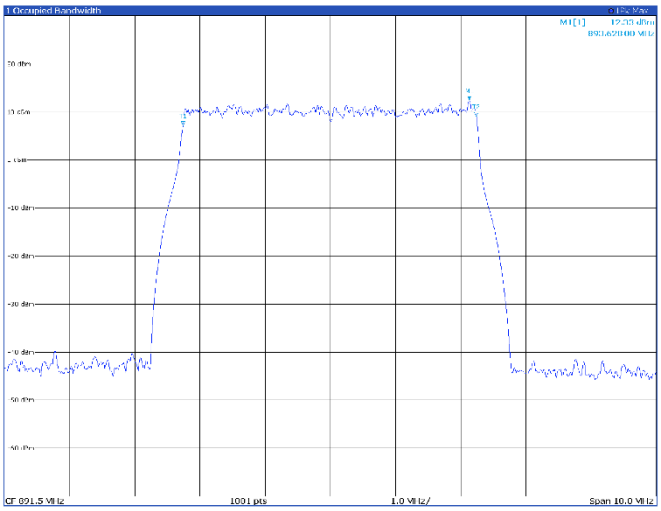
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**880.651 MHz**	**13.02 dBm**	Occ Bw	**4.513 113 24 MHz**
T1		1	879.251 12 MHz	7.07 dBm	Occ Bw Centroid	881.485 676 992 MHz
T2		1	884.764 28 MHz	8.96 dBm	Occ Bw Freq Offset	3.324 916 952 MHz

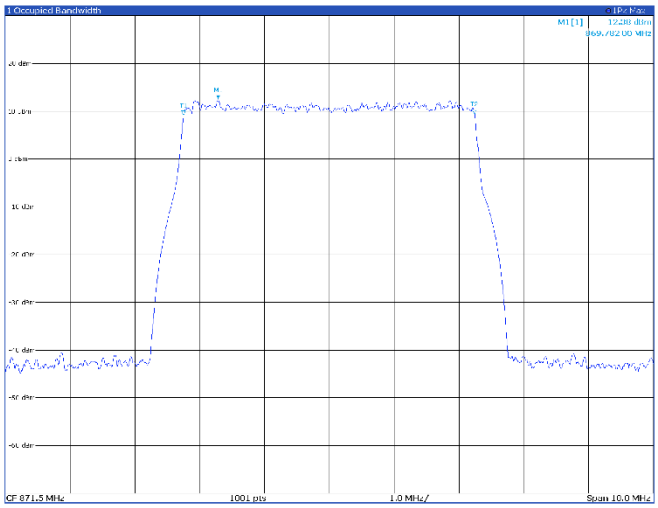
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**893.628 MHz**	**12.33 dBm**	Occ Bw	**4.497 660 033 MHz**
T1			889.241 91 MHz	7.13 dBm	Occ Bw Centroid	891.497 773 003 MHz
T2			893.739 6 MHz	9.01 dBm	Occ Bw Freq Offset	-2.226 005 570 MHz

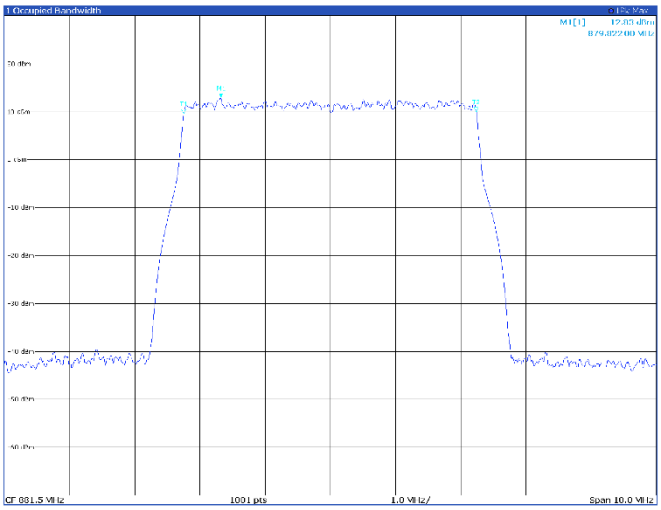
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**869.782 MHz**	**12.38 dBm**	Occ Bw	**4.487 744 323 MHz**
T1		1	869.251 86 MHz	9.17 dBm	Occ Bw Centroid	871.485 728 703 MHz
T2		1	873.739 6 MHz	9.48 dBm	Occ Bw Freq Offset	2.227 046 964 MHz

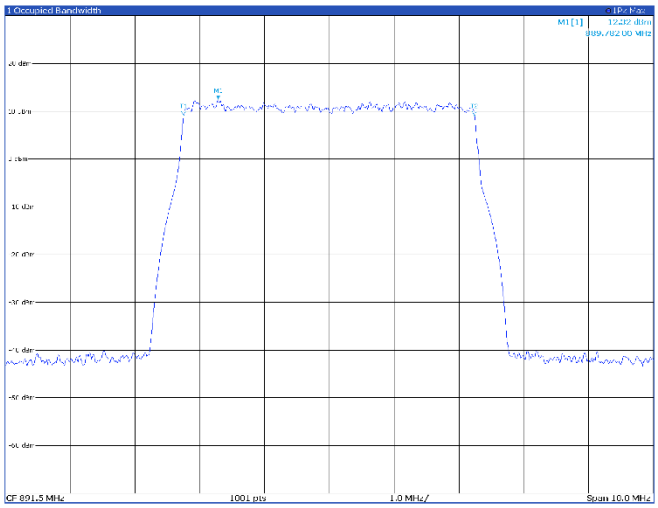
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**879.822 MHz**	**12.83 dBm**	Occ Bw	**4.486 426 159 MHz**
T1			879.251 71 MHz	9.65 dBm	Occ Bw Centroid	881.491 921 927 MHz
T2			883.739 14 MHz	9.93 dBm	Occ Bw Freq Offset	-2.226 043 202 MHz

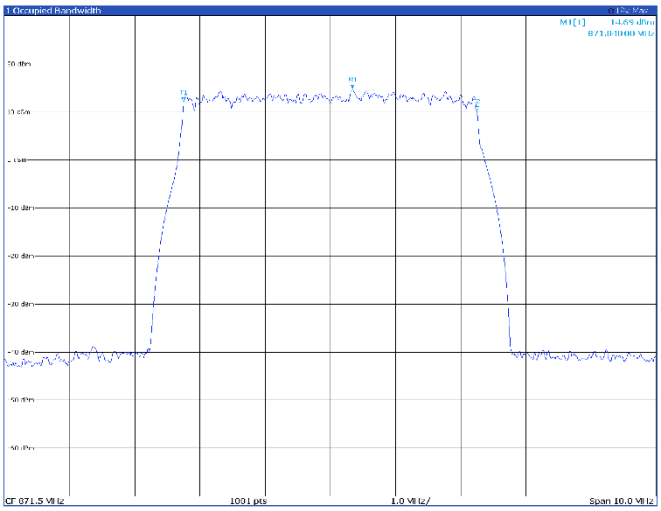
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	889.782 MHz	12.32 dBm	Occ Bw	4.485 059 557 MHz
T1		1	887.252 14 MHz	9.01 dBm	Occ Bw Centroid	881.484 569 709 MHz
T2		1	892.267 79 MHz	9.06 dBm	Occ Bw Freq Offset	-3.531 04 791 kHz

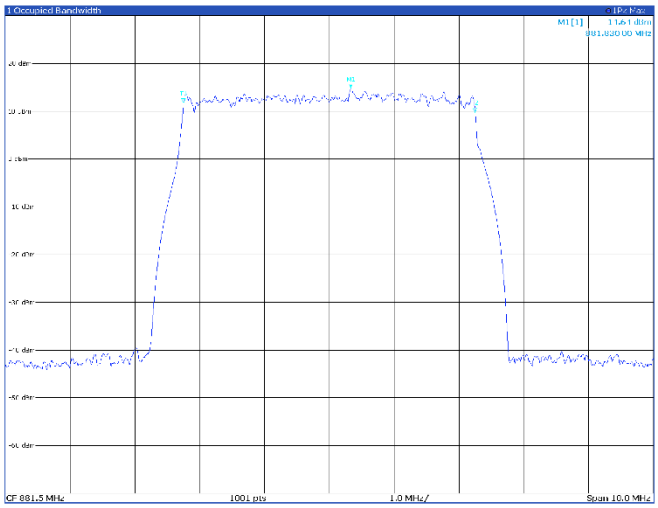
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			871.84 MHz	14.69 dBm	Occ Bw	4.496 515 733 MHz
T1			869.243 13 MHz	12.03 dBm	Occ Bw Centroid	871.496 669 778 MHz
T2			873.74[illegible]35 MHz	10.[illegible]2 dBm	Occ Bw Freq Offset	-3.410 22[illegible] kHz

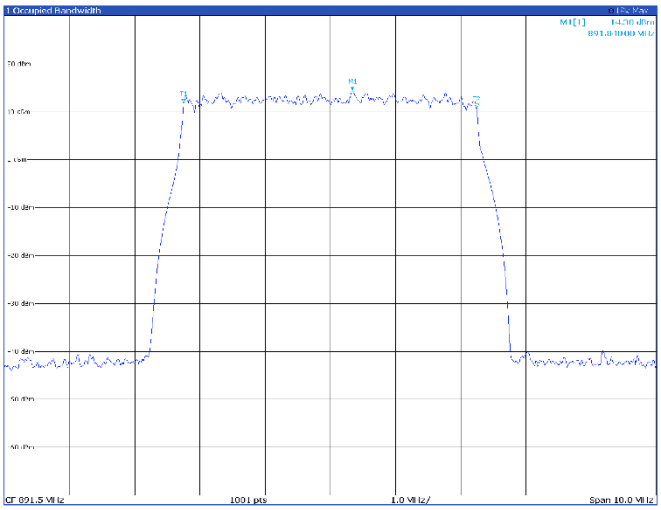
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	881.83 MHz	14.64 dBm	Occ Bw	4.495 864 388 MHz
T1		1	879.247 59 MHz	11.68 dBm	Occ Bw Centroid	881.484 520 605 MHz
T2		1	884.2[illegible] MHz	9.[illegible] dBm	Occ Bw Freq Offset	-3.379 [illegible] kHz

TM3p3, 5 MHz, high channel

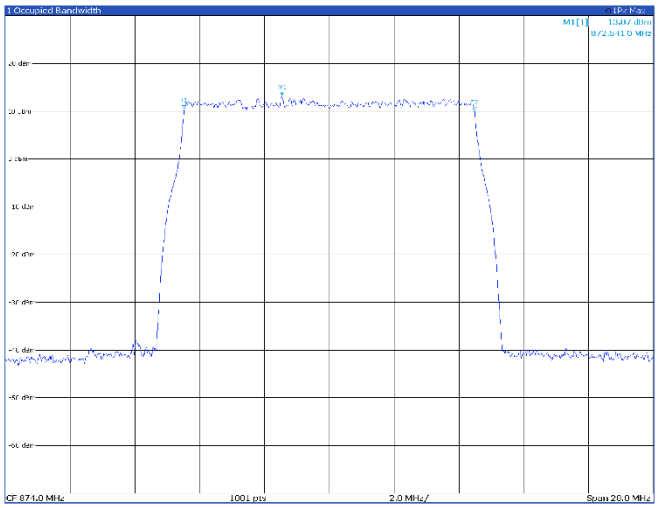


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			891.84 MHz	14.30 dBm	Occ Bw	4.495 107 834 MHz
T1			889.247 38 MHz	11.71 dBm	Occ Bw Centroid	891.491 832 236 MHz
T2			893.742 39 MHz	10.65 dBm	Occ Bw Freq Offset	-3.167 [illegible] kHz

Band B5 **10 MHz**

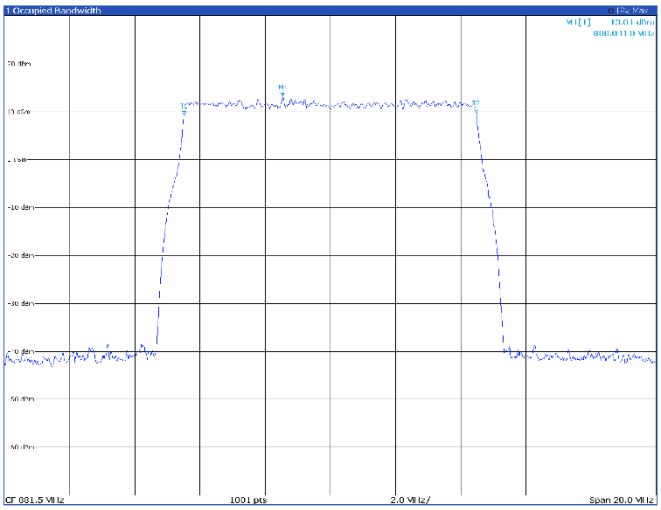
TM1.1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	872.541 MHz	13.07 dBm	Occ Bw	8.968 248 04 MHz
T1		1	869.5146 MHz	10.23 dBm	Occ Bw Centroid	873.958 713 923 MHz
T2		1	873.4876 MHz	9.96 dBm	Occ Bw freq Offset	1.208 125 918 MHz

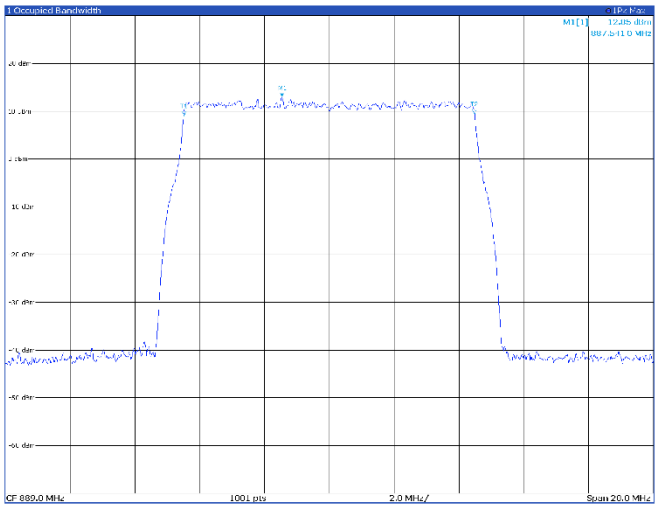
TM1.1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			880.041 MHz	13.01 dBm	Occ Bw	8.966 551 671 MHz
T1			877.5128 MHz	9.11 dBm	Occ Bw Centroid	881.496 053 931 MHz
T2			885.9703 MHz	9.72 dBm	Occ Bw freq Offset	-3.534 049 576 MHz

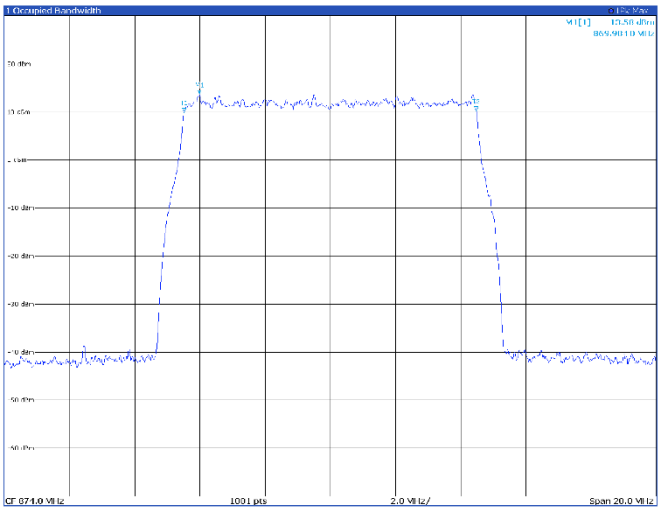
TM1.1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	887.541 MHz	12.85 dBm	Occ Bw	8.968 235 586 MHz
T1		1	884.5103 MHz	9.06 dBm	Occ Bw Centroid	888.954 434 106 MHz
T2		1	893.4706 MHz	9.45 dBm	Occ Bw freq Offset	5.245 931 036 94 MHz

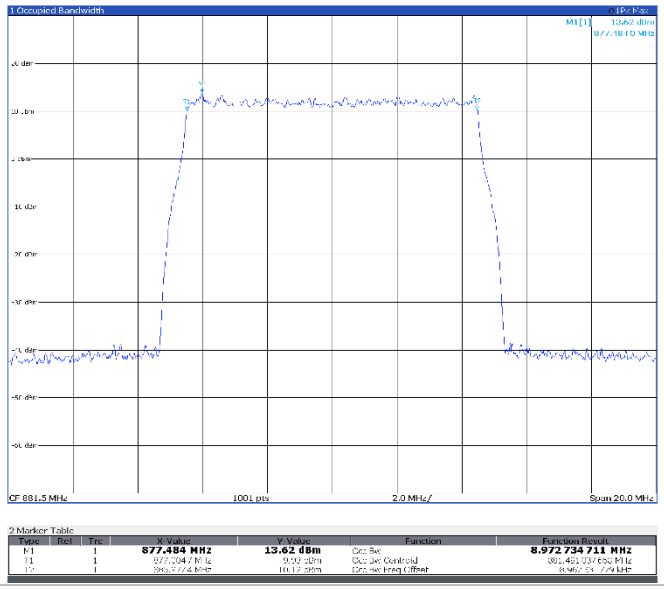
TM3p1, 10 MHz, low channel



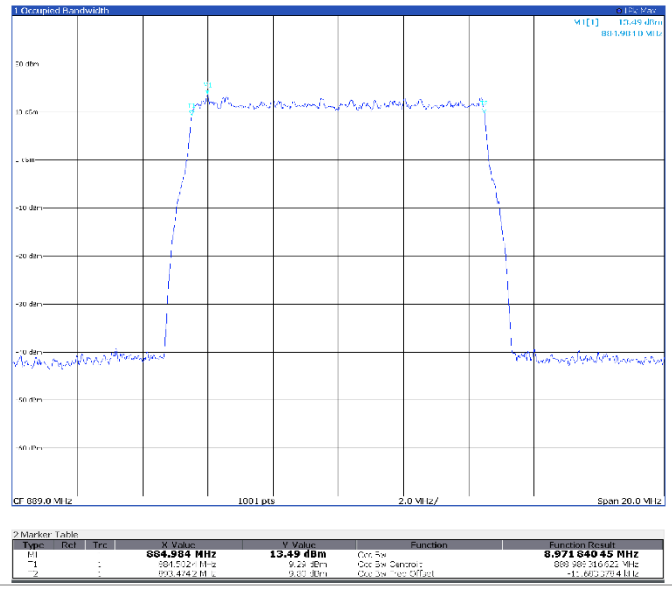
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			869.984 MHz	13.58 dBm	Occ Bw	8.972 218 985 MHz
T1			869.5338 MHz	9.83 dBm	Occ Bw Centroid	872.996 975 604 MHz
T2			878.4031 MHz	10.15 dBm	Occ Bw freq Offset	-4.024 939 842 MHz

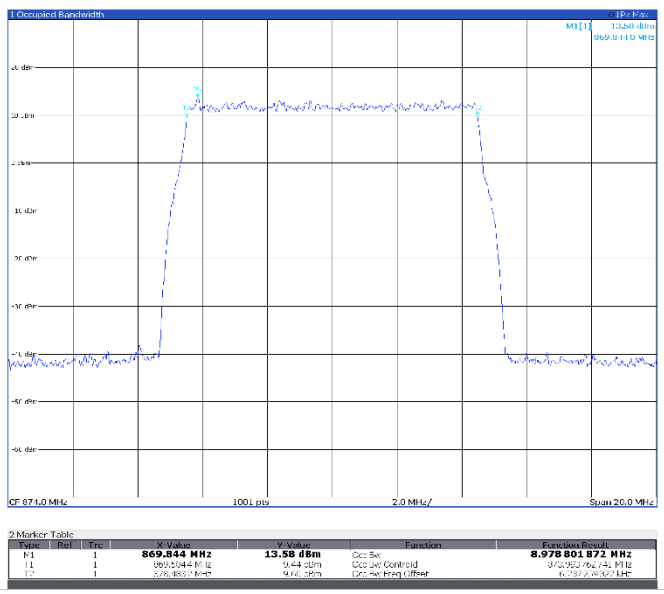
TM3p1, 10 MHz, mid channel



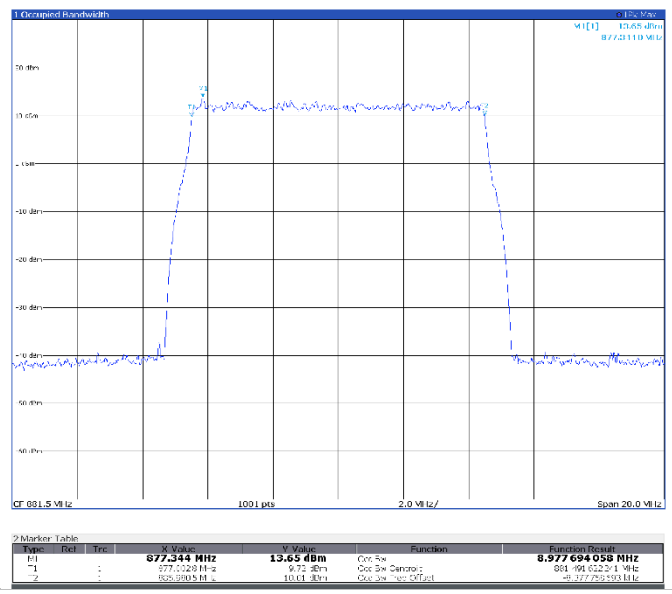
TM3p1, 10 MHz, high channel



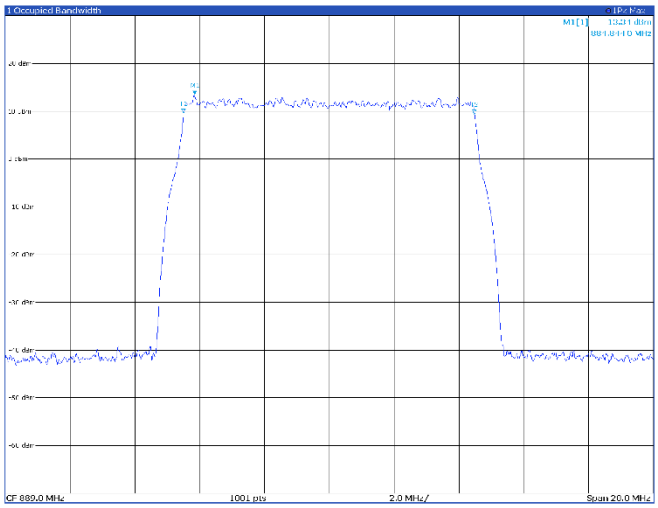
TM3p1a, 10 MHz, low channel



TM3p1a, 10 MHz, mid channel



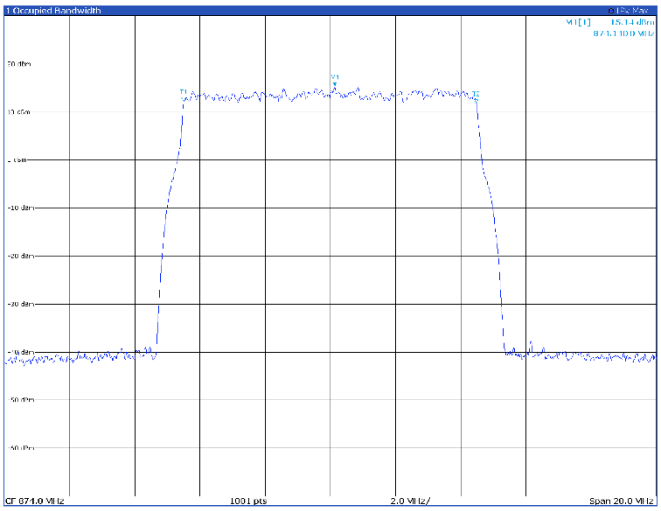
TM3p1a, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**884.844 MHz**	**13.34 dBm**	Occ Bw	**8.979 045 18 MHz**
T1		1	884.4998 MHz	9.53 dBm	Occ Bw Centroid	880.999 320 980 MHz
T2		1	893.4798 MHz	9.54 dBm	Occ Bw Freq Offset	10.676 521 95 kHz

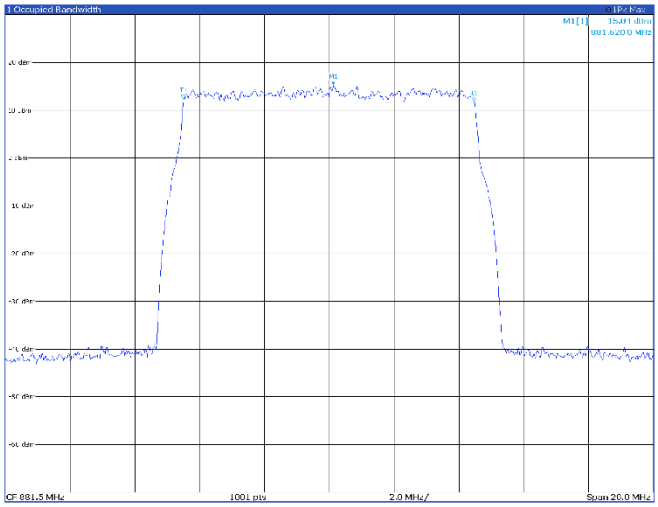
TM3p3, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**874.14 MHz**	**15.14 dBm**	Occ Bw	**8.974 451 38 MHz**
T1			869.501 7 MHz	12.11 dBm	Occ Bw Centroid	873.989 929 466 MHz
T2			878.476 1 MHz	11.65 dBm	Occ Bw Freq Offset	-11.290 531 212 kHz

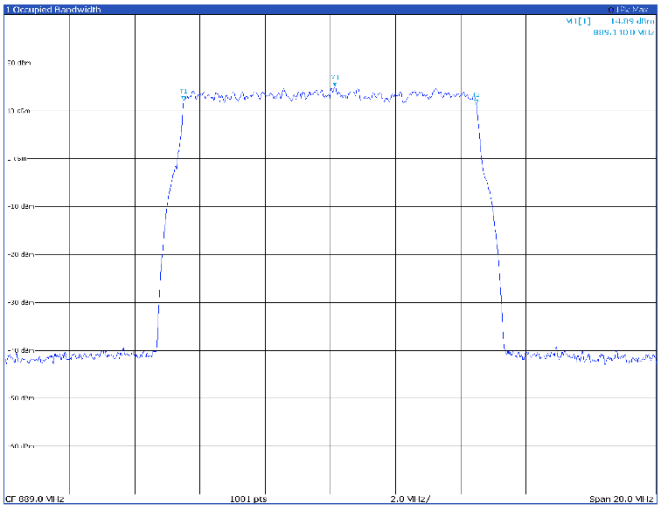
TM3p3, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**881.62 MHz**	**15.04 dBm**	Occ Bw	**8.974 811 54 MHz**
T1		1	876.5996 MHz	12.19 dBm	Occ Bw Centroid	881.489 935 400 MHz
T2		1	886.5714 MHz	11.46 dBm	Occ Bw Freq Offset	13.017 451 [illegible] kHz

TM3p3, 10 MHz, high channel



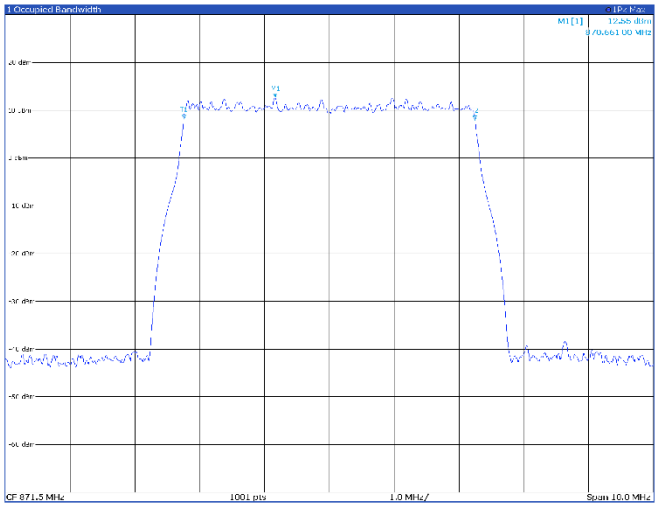
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**889.14 MHz**	**14.89 dBm**	Occ Bw	**8.973 822 419 MHz**
T1			884.4886 MHz	12.05 dBm	Occ Bw Centroid	888.9655 4278 MHz
T2			893.4525 MHz	11.25 dBm	Occ Bw Freq Offset	-14.457 019 779 kHz

Antenna port 2

Band B5	**5 MHz**

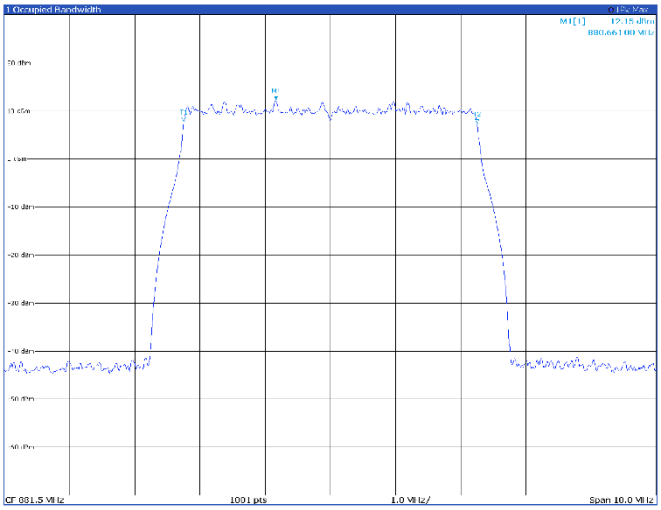
TM1.1, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**870.661 MHz**	**12.55 dBm**	Occ Bw	**4.490 491 473 MHz**
T1		1	869.254 41 MHz	8.14 dBm	Occ Bw Centroid	871.490 552 272 MHz
T2		1	872.744 9 MHz	7.91 dBm	Occ Bw Freq Offset	947 677 216.980 Hz

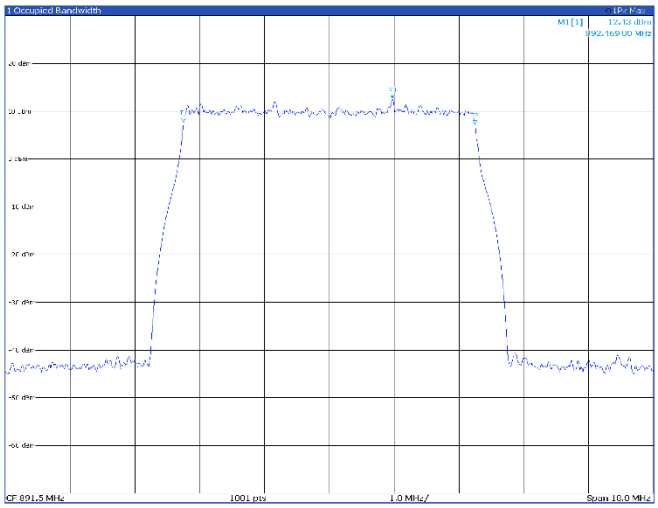
TM1.1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**880.661 MHz**	**12.15 dBm**	Occ Bw	**4.497 422 955 MHz**
T1			879.251 11 MHz	7.73 dBm	Occ Bw Centroid	881.499 757 886 MHz
T2			883.749 44 MHz	7.35 dBm	Occ Bw Freq Offset	-274 114 200.738 Hz

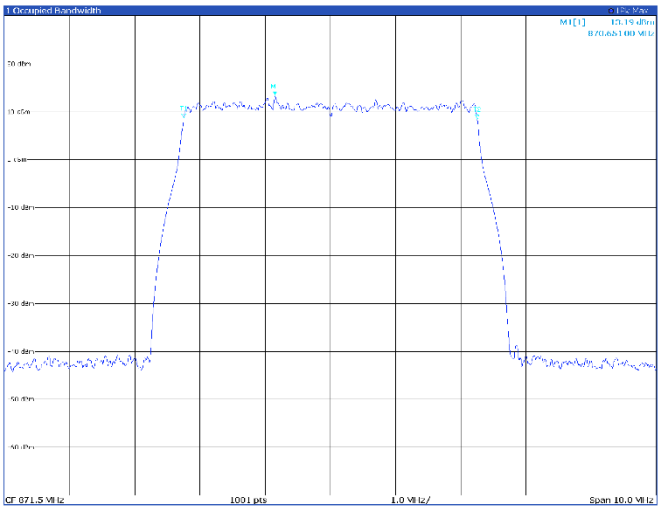
TM1.1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**892.469 MHz**	**12.43 dBm**	Occ Bw	**4.497 338 186 MHz**
T1		1	889.25 MHz	7.63 dBm	Occ Bw Centroid	891.489 673 801 MHz
T2		1	893.749 53 MHz	7.11 dBm	Occ Bw Freq Offset	1 326 119 426 Hz

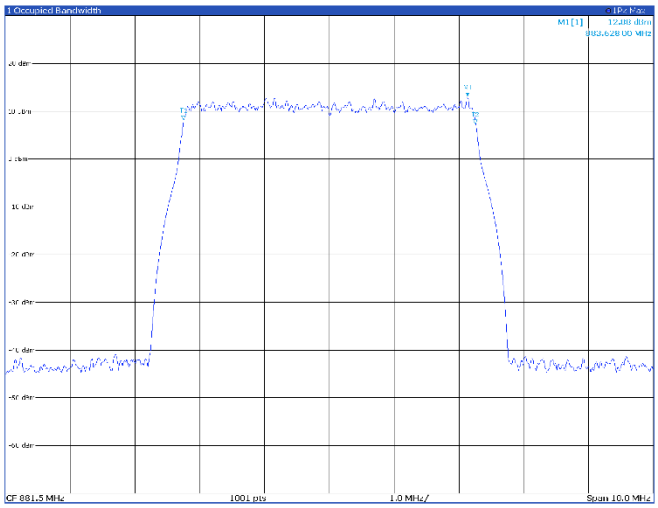
TM3p1, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**870.661 MHz**	**13.19 dBm**	Occ Bw	**4.500 687 718 MHz**
T1			869.247 56 MHz	8.61 dBm	Occ Bw Centroid	871.499 973 976 MHz
T2			873.749 25 MHz	8.42 dBm	Occ Bw Freq Offset	-2 792 024 277 Hz

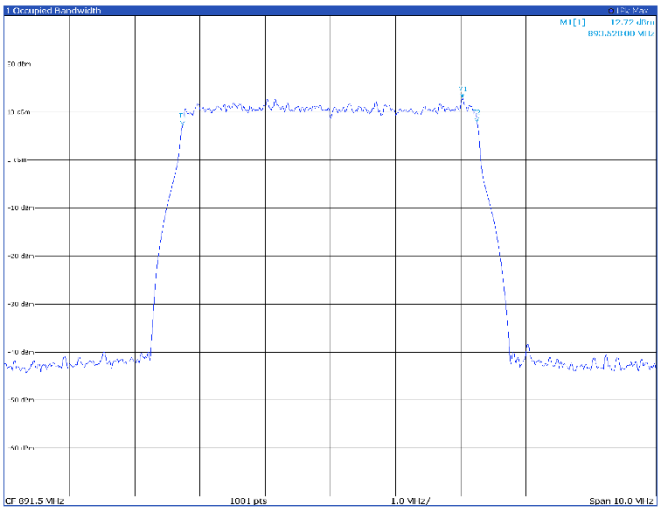
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
N1		1	**883.628 MHz**	**12.88 dBm**	Occ Bw	**4.502 701 146 MHz**
T1		1	879.250 25 MHz	6.11 dBm	Occ Bw Centroid	881.501 703 801 MHz
T2		1	884.253 25 MHz	6.34 dBm	Occ Bw Freq Offset	1.701 988 746 MHz

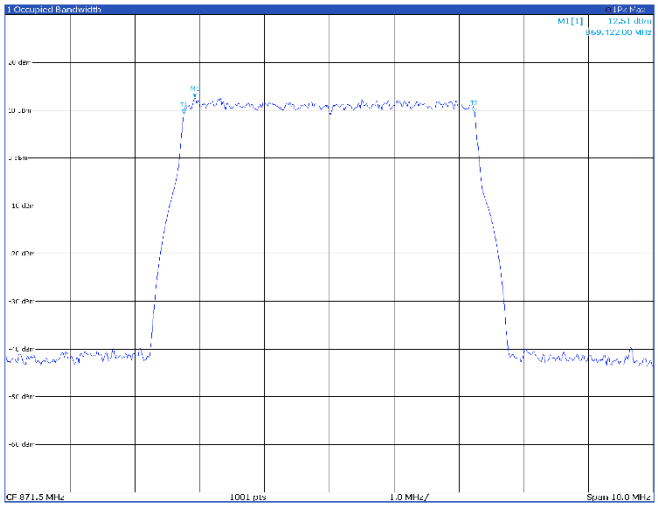
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
N1		1	**893.528 MHz**	**12.72 dBm**	Occ Bw	**4.509 075 67 MHz**
T1		1	889.251 75 MHz	7.15 dBm	Occ Bw Centroid	891.485 281 532 MHz
T2		1	893.743 92 MHz	7.04 dBm	Occ Bw Freq Offset	-1.715 646 406 MHz

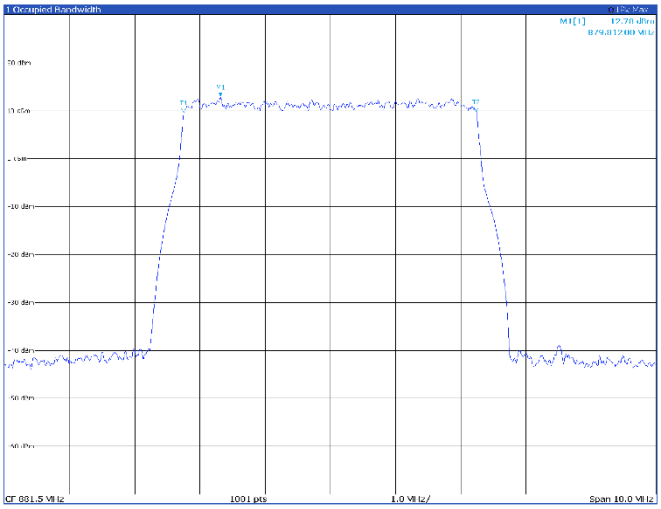
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
N1		1	**869.422 MHz**	**12.51 dBm**	Occ Bw	**4.486 144 309 MHz**
T1		1	867.252 38 MHz	9.14 dBm	Occ Bw Centroid	871.455 452 209 MHz
T2		1	871.738 52 MHz	9.42 dBm	Occ Bw Freq Offset	4.455 777 396 MHz

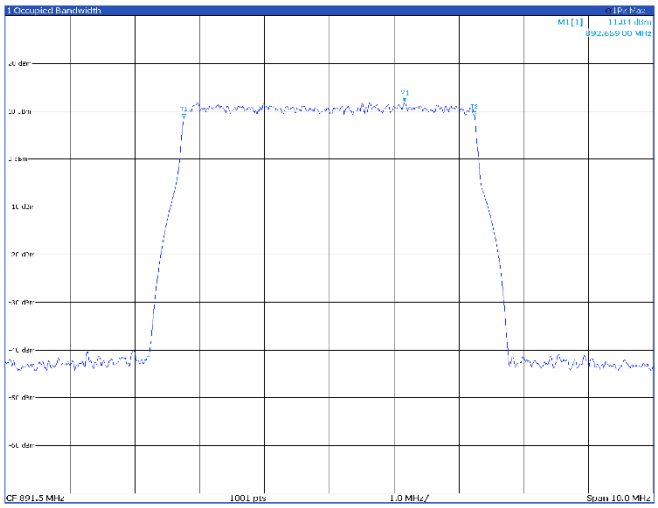
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
N1			**879.812 MHz**	**12.78 dBm**	Occ Bw	**4.468 214 028 MHz**
T1			879.251 12 MHz	9.51 dBm	Occ Bw Centroid	881.495 533 533 MHz
T2			883.719 53 MHz	9.72 dBm	Occ Bw Freq Offset	-4.414 453 535 MHz

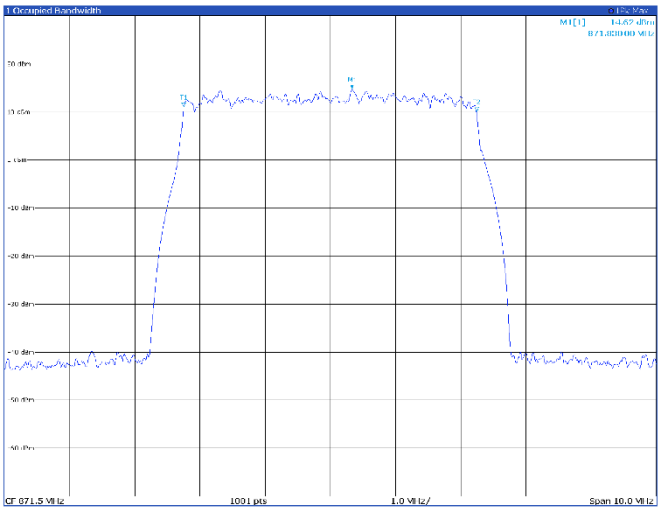
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	892.659 MHz	11.84 dBm	Occ Bw	4.485 053 532 MHz
T1		1	889.252 95 MHz	8.41 dBm	Occ Bw Centroid	891.485 478 871 MHz
T2		1	893.738 07 MHz	8.92 dBm	Occ Bw Freq Offset	4.521 629 338 kHz

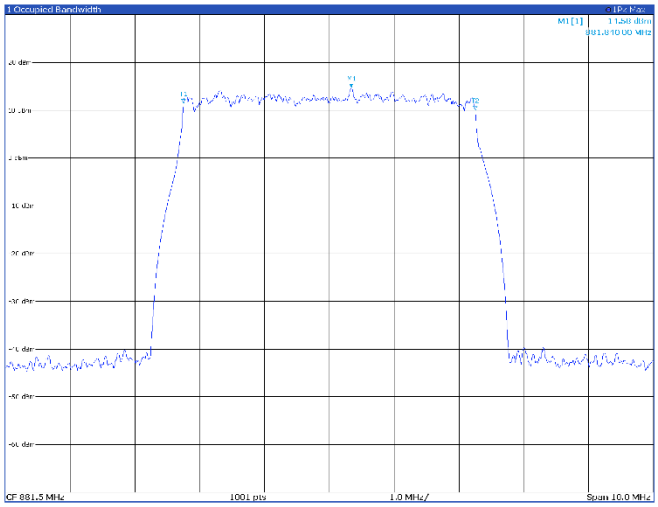
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			871.83 MHz	14.62 dBm	Occ Bw	4.491 372 496 MHz
T1		:	869.249 71 MHz	10.95 dBm	Occ Bw Centroid	871.495 391 946 MHz
T2		:	873.741 38 MHz	10.04 dBm	Occ Bw Freq Offset	-4.503 051 892 MHz

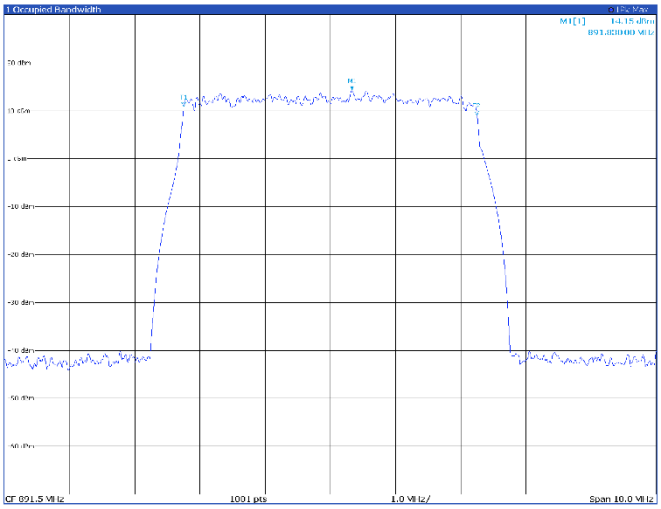
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	881.84 MHz	14.58 dBm	Occ Bw	4.499 449 577 MHz
T1		1	879.243 96 MHz	11.43 dBm	Occ Bw Centroid	881.488 083 494 MHz
T2		1	883.747 31 MHz	9.92 dBm	Occ Bw Freq Offset	1.916 508 18 kHz

TM3p3, 5 MHz, high channel

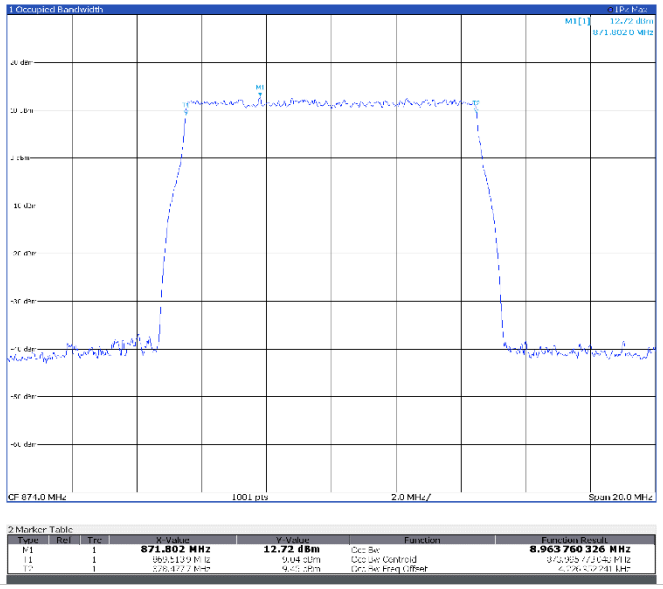


2 Marker Table

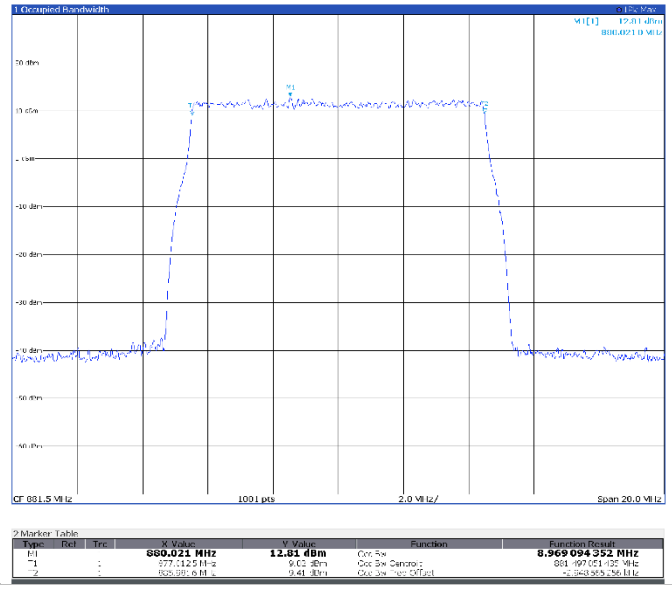
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			891.83 MHz	14.15 dBm	Occ Bw	4.495 196 607 MHz
T1		:	889.248 95 MHz	10.77 dBm	Occ Bw Centroid	891.496 552 34 MHz
T2		:	893.744 15 MHz	9.09 dBm	Occ Bw Freq Offset	-3.447 658 935 MHz

Band B5 **10 MHz**

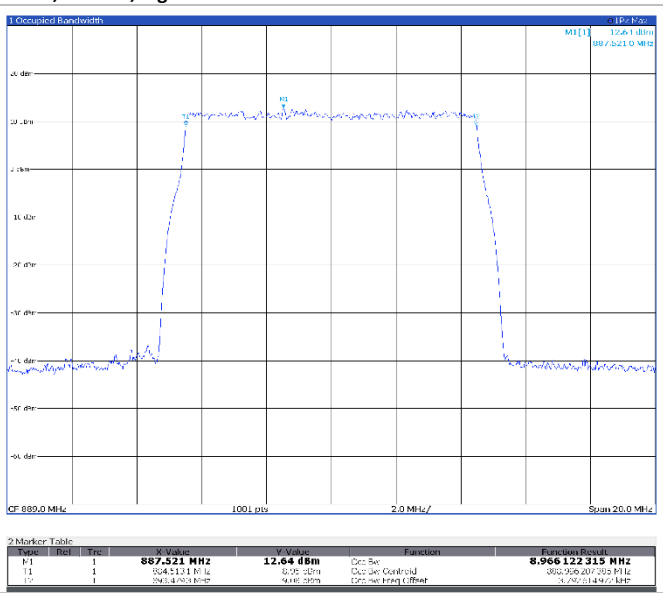
TM1.1, 10 MHz, low channel



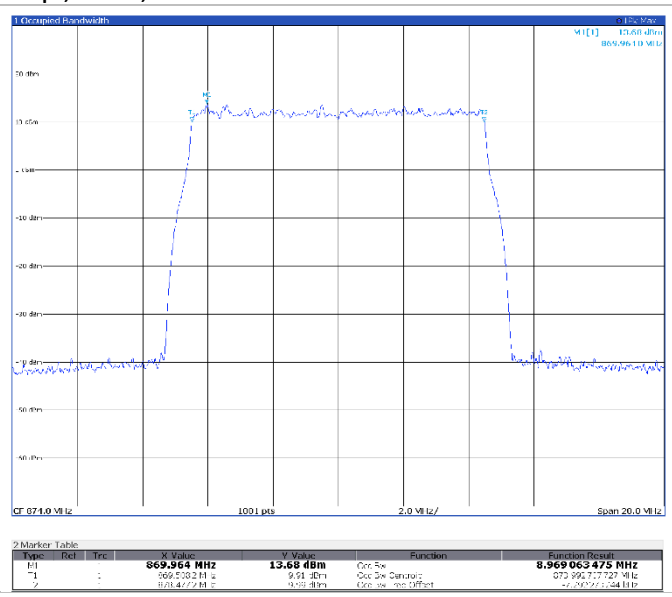
TM1.1, 10 MHz, mid channel



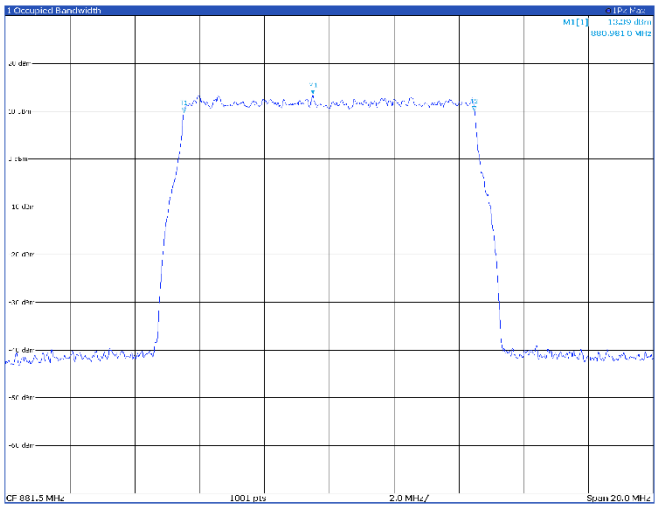
TM1.1, 10 MHz, high channel



TM3p1, 10 MHz, low channel



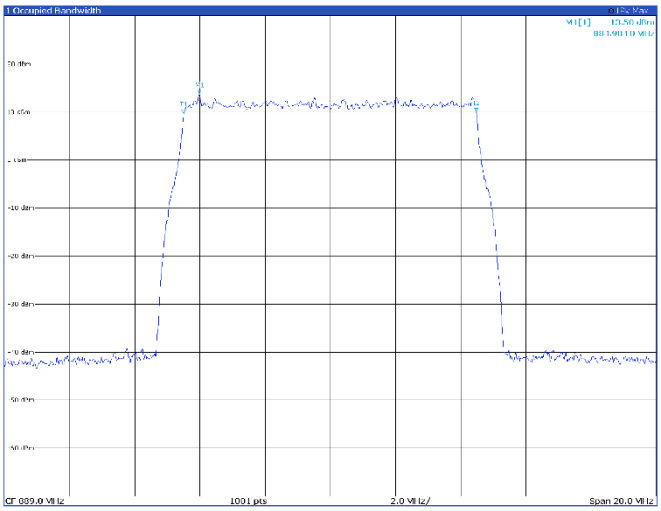
TM3p1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**880.981 MHz**	**13.39 dBm**	Occ Bw	**8.970 717 85 MHz**
T1		1	[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2		1	[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

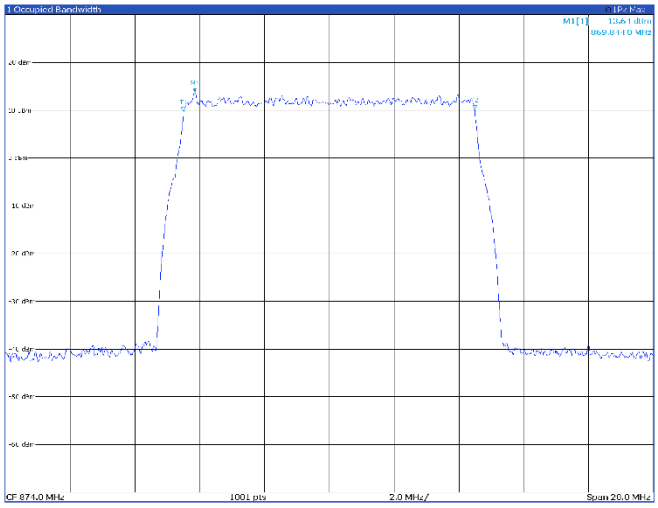
TM3p1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**884.984 MHz**	**13.50 dBm**	Occ Bw	**8.971 523 417 MHz**
T1			[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2			[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

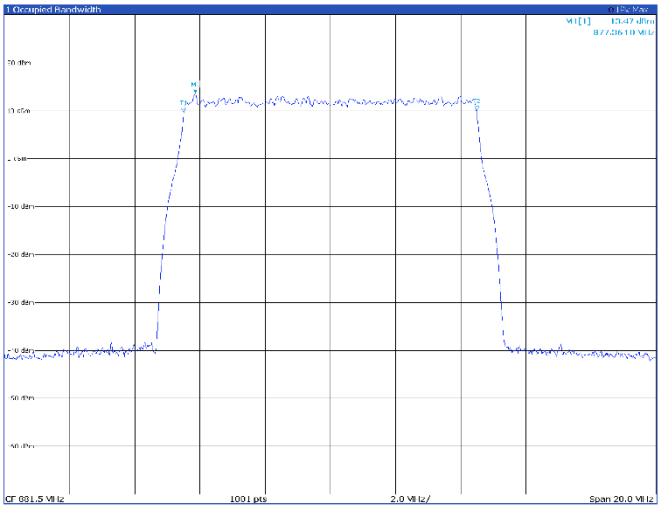
TM3p1a, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**869.844 MHz**	**13.64 dBm**	Occ Bw	**8.979 375 372 MHz**
T1		1	[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2		1	[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

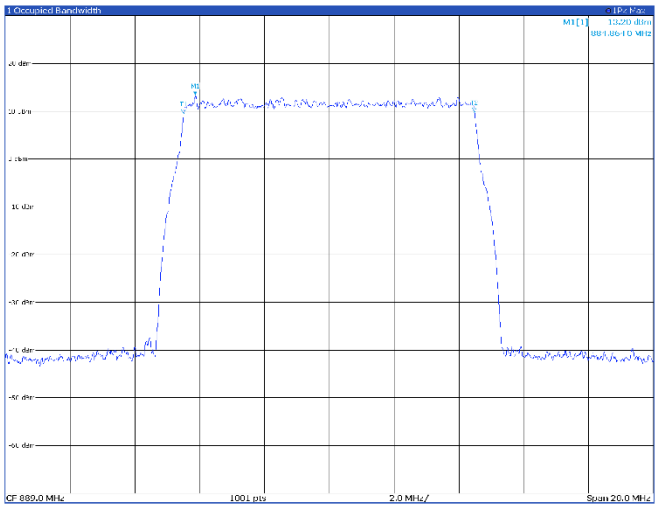
TM3p1a, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**877.364 MHz**	**13.47 dBm**	Occ Bw	**8.979 588 511 MHz**
T1			[illegible]	[illegible]	Occ Bw Centroid	[illegible]
T2			[illegible]	[illegible]	Occ Bw Freq Offset	[illegible]

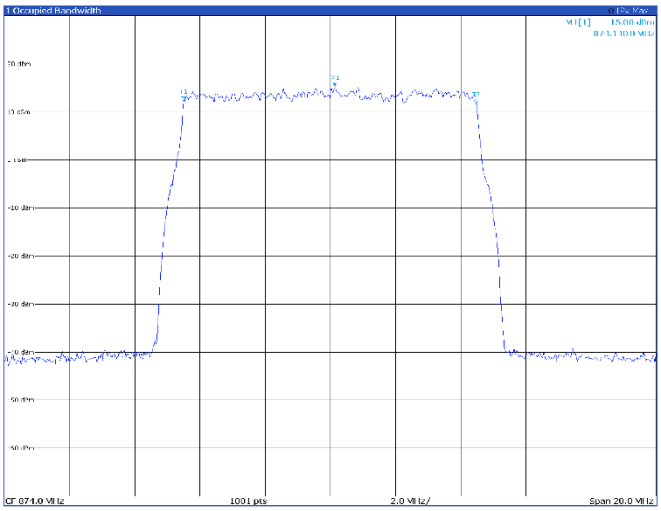
TM3p1a, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	884.864 MHz	13.20 dBm	Occ Bw	8.979 379 15 MHz
T1		1	884.500 7 MHz	9.45 dBm	Occ Bw Centroid	888.960 060 125 MHz
T2		1	893.48 MHz	9.73 dBm	Occ Bw Freq Offset	9.039 575 046 kHz

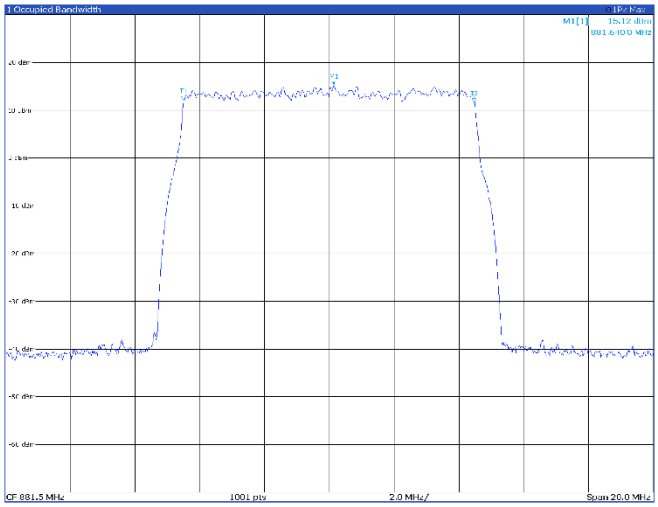
TM3p3, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			874.14 MHz	15.08 dBm	Occ Bw	8.974 845 037 MHz
T1		:	869.4999 MHz	12.17 dBm	Occ Bw Centroid	873.987 296 597 MHz
T2		:	878.474 7 MHz	11.63 dBm	Occ Bw Freq Offset	-12.703 403 223 kHz

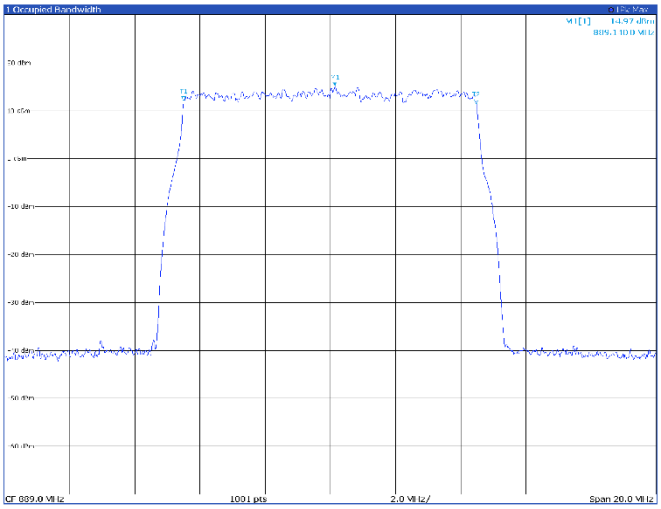
TM3p3, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	881.64 MHz	15.12 dBm	Occ Bw	8.975 121 66 MHz
T1		1	877.000 2 MHz	12.02 dBm	Occ Bw Centroid	881.487 793 894 MHz
T2		1	886.3754 MHz	11.74 dBm	Occ Bw Freq Offset	12.206 105 731 kHz

TM3p3, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			889.14 MHz	14.97 dBm	Occ Bw	8.975 329 126 MHz
T1		:	884.498 7 MHz	12.02 dBm	Occ Bw Centroid	888.985 347 495 MHz
T2		:	893.474 MHz	11.37 dBm	Occ Bw Freq Offset	-13.352 555 395 kHz

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

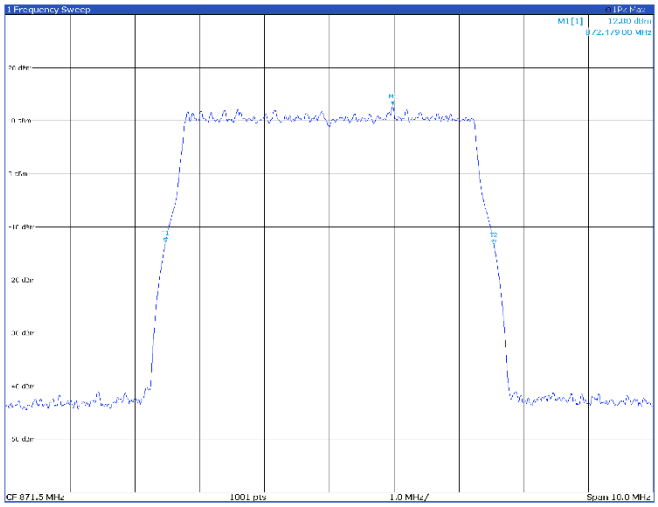
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
B5	10 MHz	TM3p1a	874.0	10.05
B5	10 MHz	TM3p1a	881.5	10.05
B5	10 MHz	TM3p1a	889.0	10.05

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

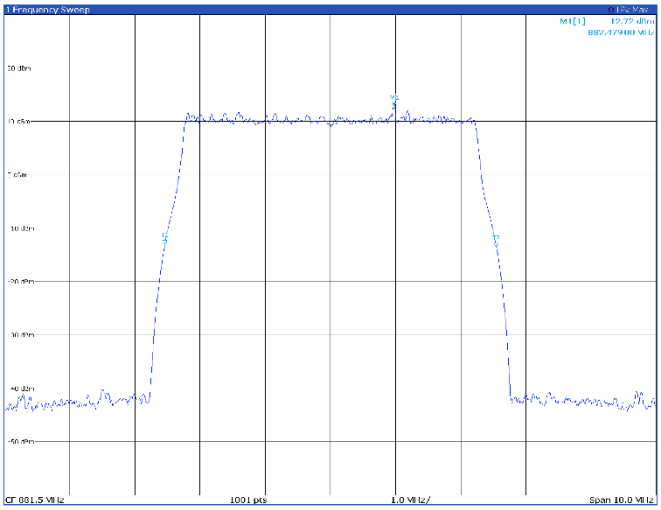
TM1.1, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**872.479 MHz**	**12.80 dBm**	ndB	26.0 dB
T1		1	868.963 MHz	-13.93 dBm	ndB down BW	**5.07 MHz**
T2		1	874.047 MHz	-13.90 dBm	Q-factor	172.3

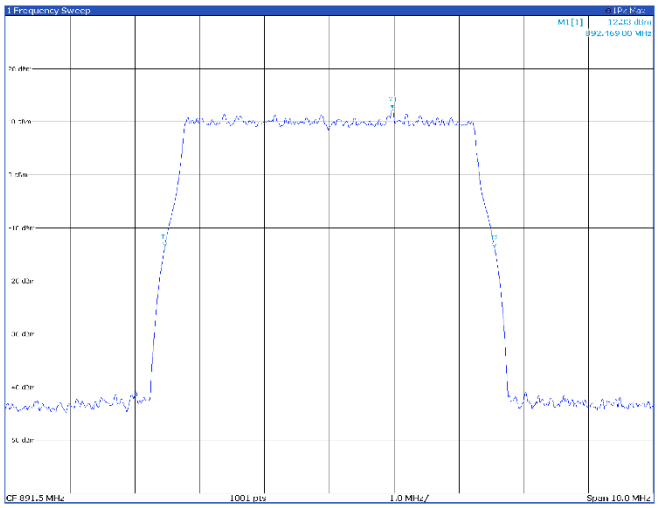
TM1.1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**882.479 MHz**	**12.72 dBm**	ndB	26.0 dB
T1			878.963 MHz	-13.09 dBm	ndB down BW	**5.08 MHz**
T2			884.047 MHz	-13.61 dBm	Q-factor	173.5

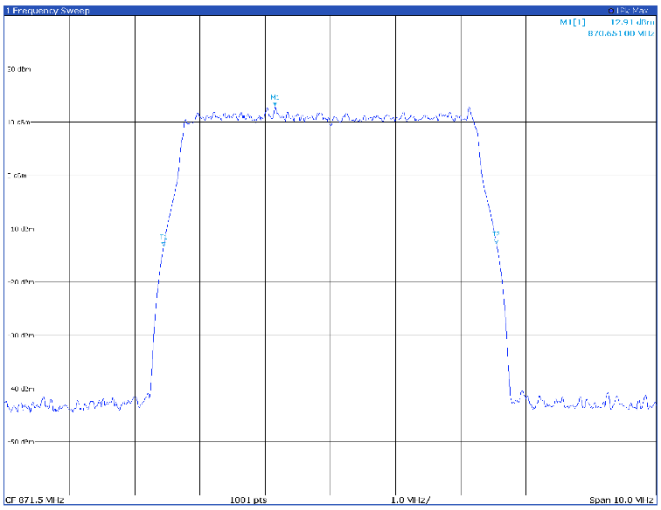
TM1.1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**892.469 MHz**	**12.33 dBm**	ndB	26.0 dB
T1		1	888.963 MHz	-13.55 dBm	ndB down BW	**5.08 MHz**
T2		1	894.047 MHz	-13.73 dBm	Q-factor	175.5

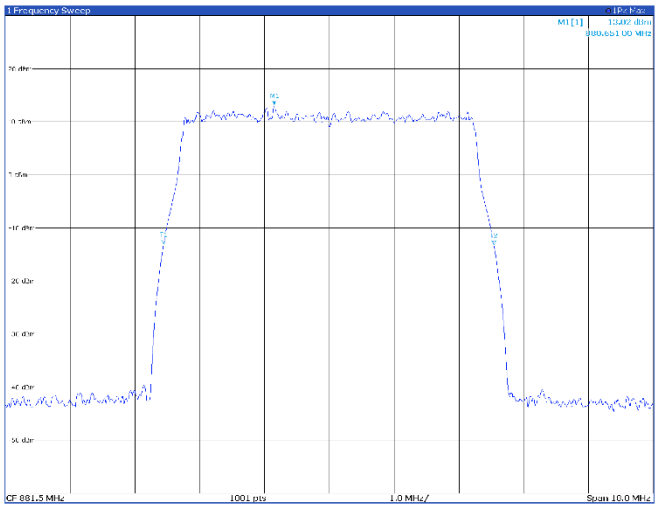
TM3p1, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**870.651 MHz**	**12.91 dBm**	ndB	26.0 dB
T1			868.943 MHz	-13.33 dBm	ndB down BW	**5.11 MHz**
T2			874.047 MHz	-13.86 dBm	Q-factor	170.6

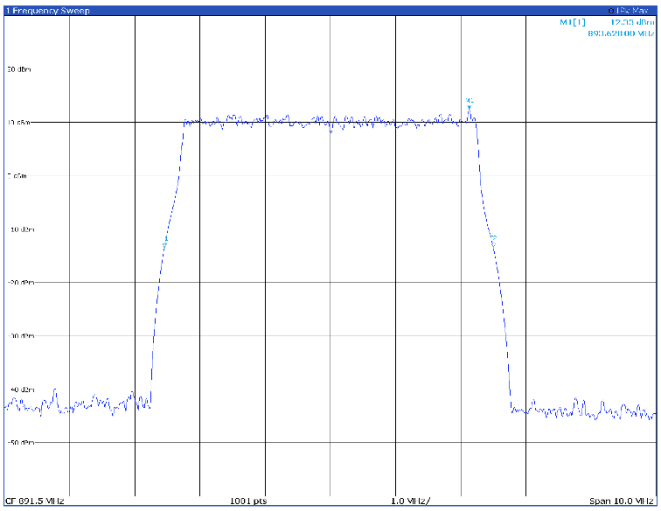
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	880.651 MHz	13.02 dBm	ncB	26.0 dB
T1		1	878.943 MHz	-13.88 dBm	ncB down BW	5.09 MHz
T2		1	884.037 MHz	-13.94 dBm	Q factor	172.8

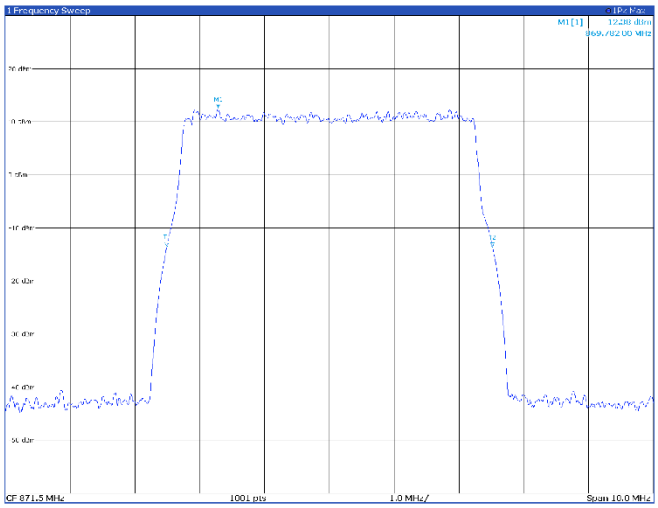
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			893.628 MHz	12.33 dBm	ncB	26.0 dB
T1		1	888.953 MHz	-13.55 dBm	ncB down BW	5.04 MHz
T2		1	893.958 MHz	-13.47 dBm	Q factor	177.1

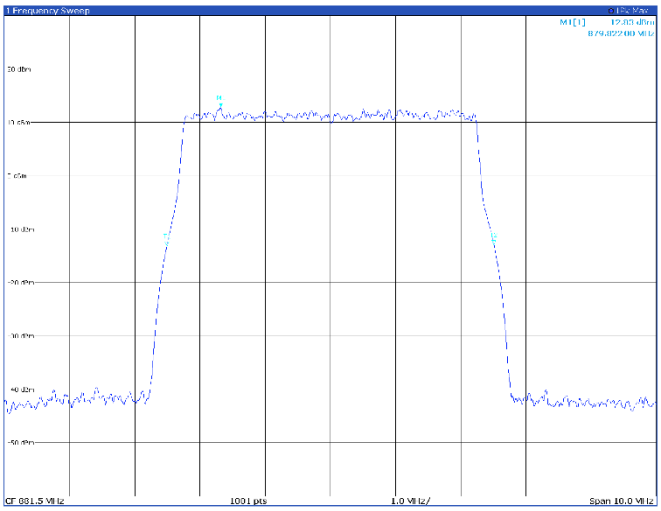
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	869.782 MHz	12.38 dBm	ncB	26.0 dB
T1		1	868.993 MHz	-13.57 dBm	ncB down BW	5.03 MHz
T2		1	874.017 MHz	-13.55 dBm	Q factor	73

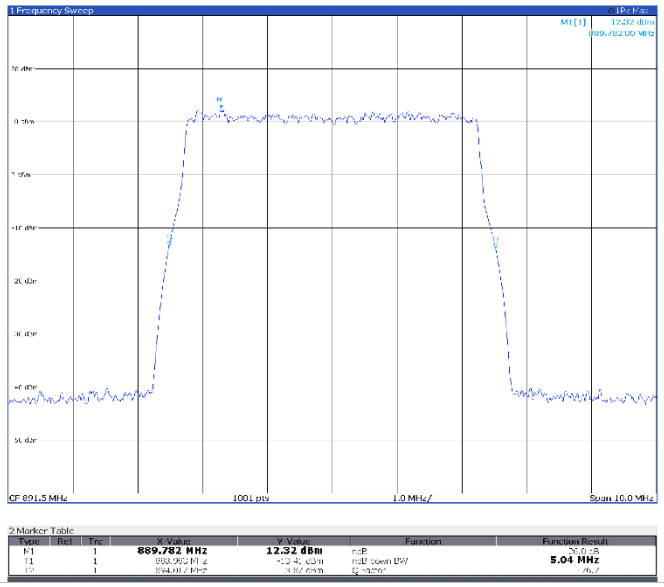
TM3p1a, 5 MHz, mid channel



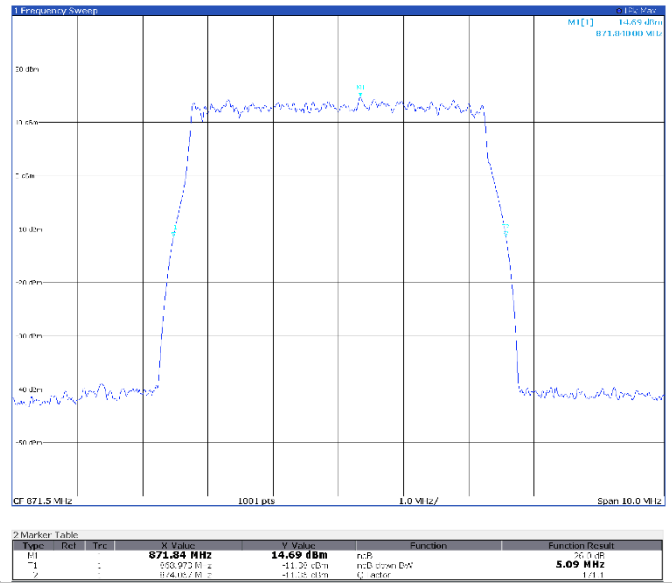
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			879.822 MHz	12.83 dBm	ncB	26.0 dB
T1		1	878.993 MHz	-13.15 dBm	ncB down BW	5.01 MHz
T2		1	884.007 MHz	-12.91 dBm	Q factor	175.4

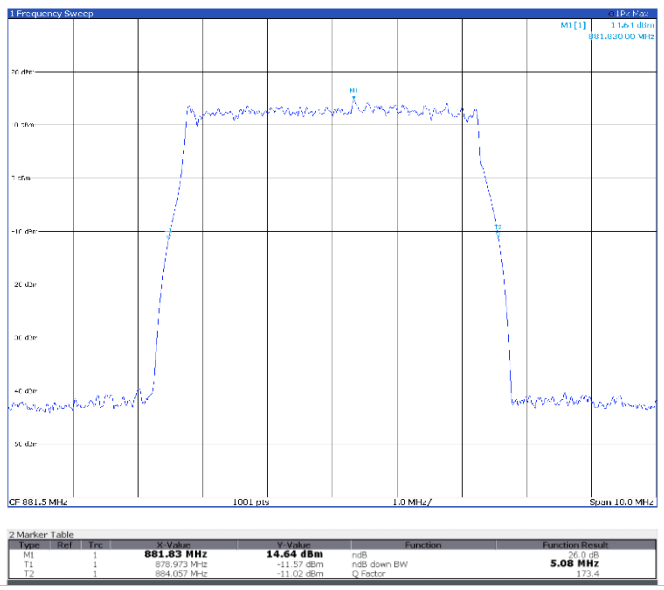
TM3p1a, 5 MHz, high channel



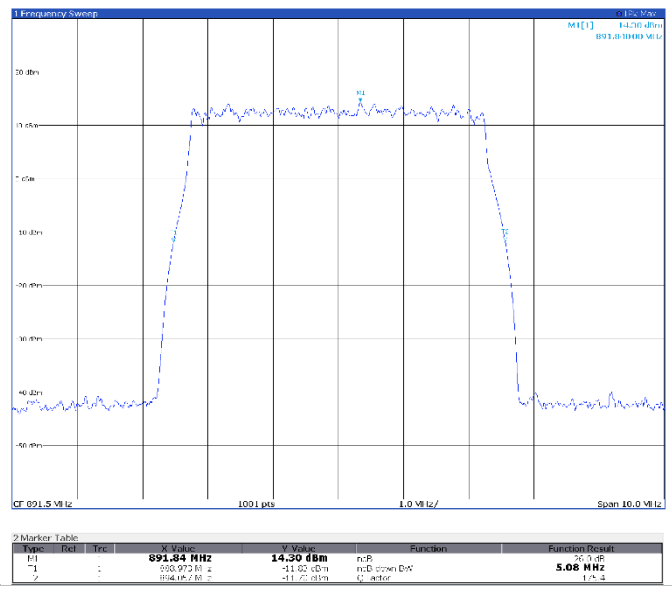
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel

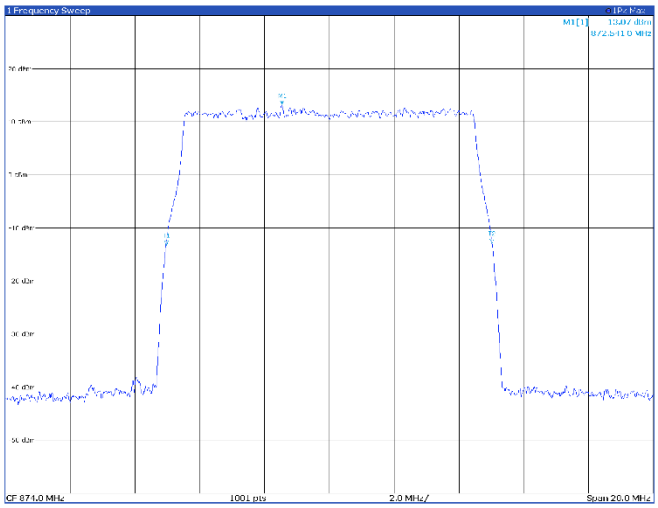


TM3p3, 5 MHz, high channel



Band B5 | **10 MHz**

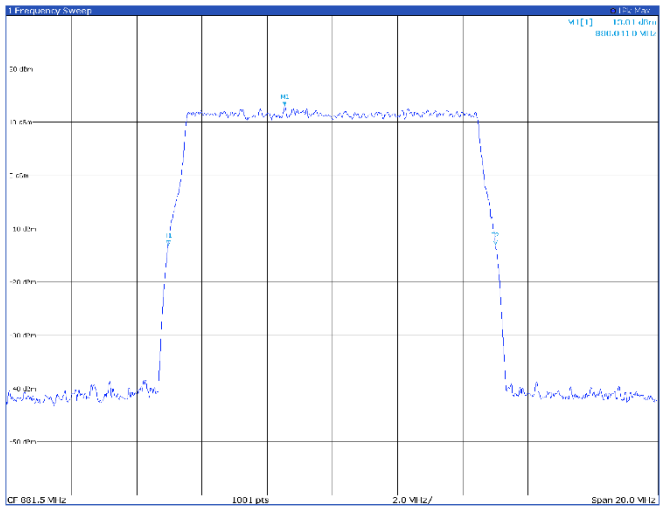
TM1.1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**872.541 MHz**	**13.07 dBm**	ndB	26.0 dB
T1		1	868.965 MHz	-12.92 dBm	ndB down BW	**10.05 MHz**
T2		1	894.015 MHz	-12.99 dBm	Q-factor	86.8

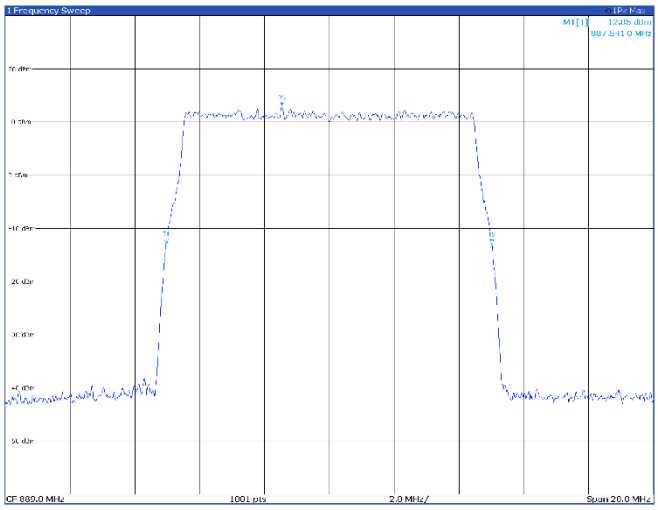
TM1.1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**880.041 MHz**	**13.01 dBm**	ndB	26.0 dB
T1			876.455 MHz	-13.02 dBm	ndB down BW	**10.03 MHz**
T2			886.485 MHz	-12.97 dBm	Q-factor	87.7

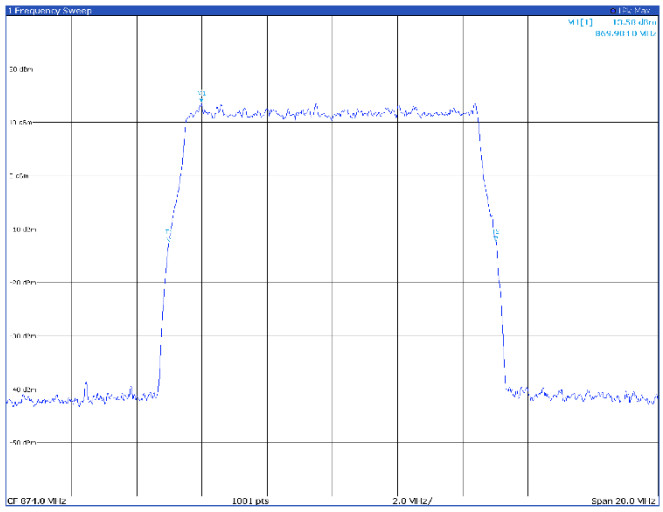
TM1.1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**887.541 MHz**	**12.85 dBm**	ndB	26.0 dB
T1		1	883.965 MHz	-12.92 dBm	ndB down BW	**10.05 MHz**
T2		1	894.015 MHz	-12.99 dBm	Q-factor	88.3

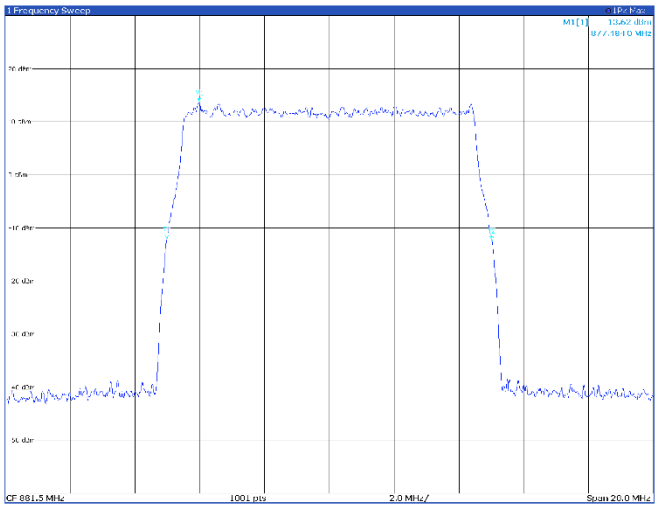
TM3p1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**869.984 MHz**	**13.58 dBm**	ndB	26.0 dB
T1			868.955 MHz	-12.37 dBm	ndB down BW	**10.03 MHz**
T2			879.015 MHz	-12.20 dBm	Q-factor	87.7

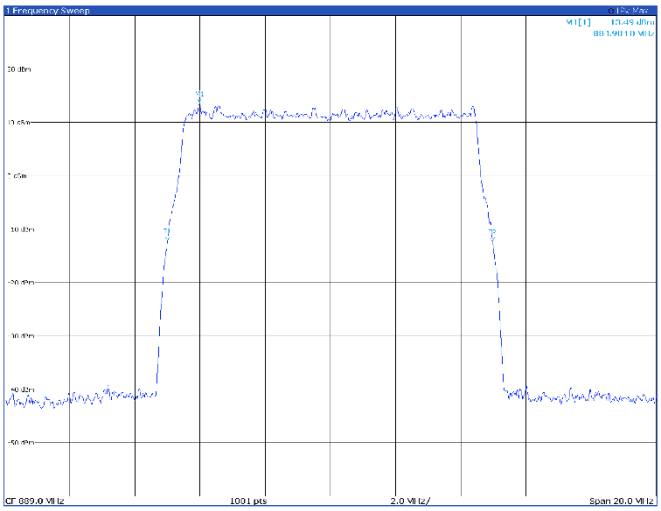
TM3p1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**877.484 MHz**	**13.62 dBm**	n dB	26.0 dB
T1		1	876.485 MHz	-12.03 dBm	n dB down BW	**10.03 MHz**
T2		1	886.485 MHz	-12.49 dBm	Q-factor	87.5

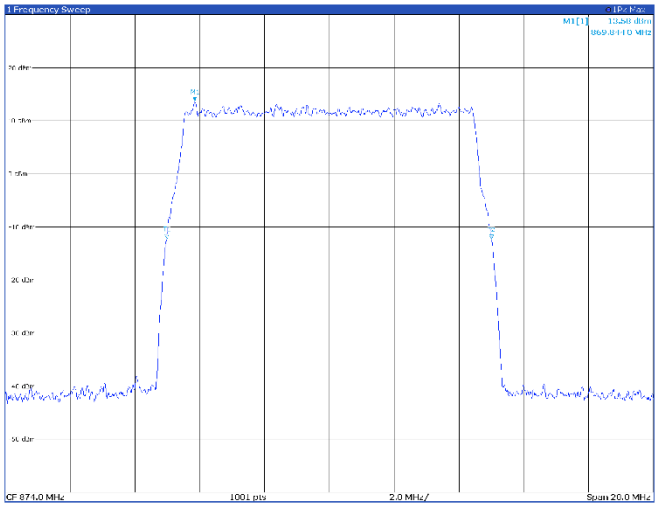
TM3p1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**884.984 MHz**	**13.49 dBm**	n dB	26.0 dB
T1			884.015 MHz	-12.15 dBm	n dB down BW	**9.97 MHz**
T2			893.975 MHz	-12.34 dBm	Q-factor	89.0

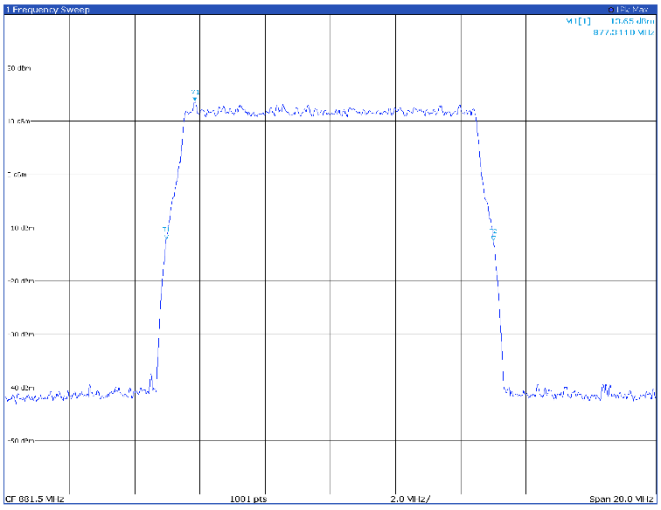
TM3p1a, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**869.844 MHz**	**13.58 dBm**	n dB	26.0 dB
T1		1	868.865 MHz	-12.23 dBm	n dB down BW	**10.01 MHz**
T2		1	878.865 MHz	-12.34 dBm	Q-factor	86.5

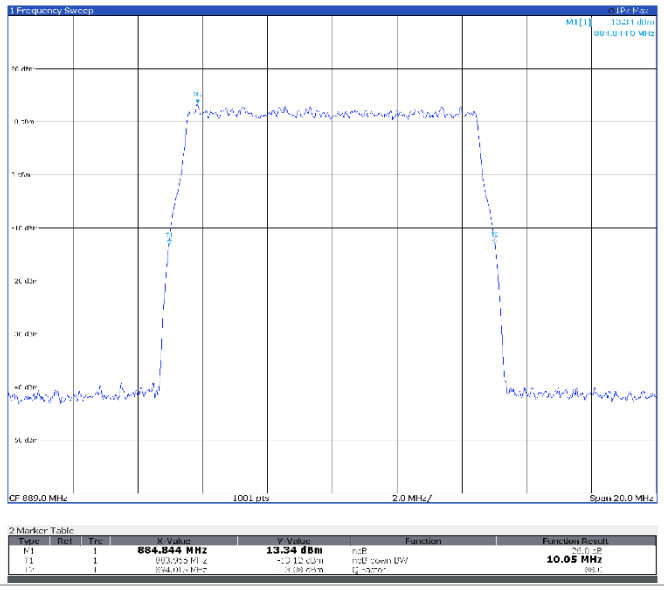
TM3p1a, 10 MHz, mid channel



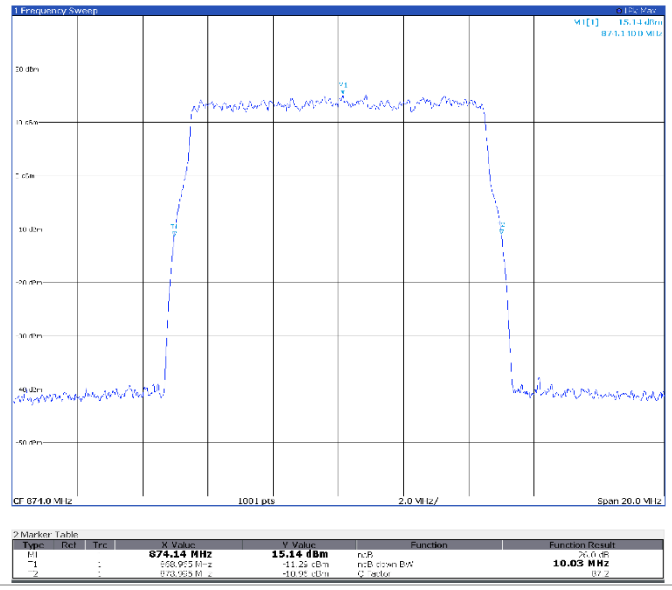
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**877.344 MHz**	**13.65 dBm**	n dB	26.0 dB
T1			876.355 MHz	-12.15 dBm	n dB down BW	**10.03 MHz**
T2			886.485 MHz	-12.45 dBm	Q-factor	87.5

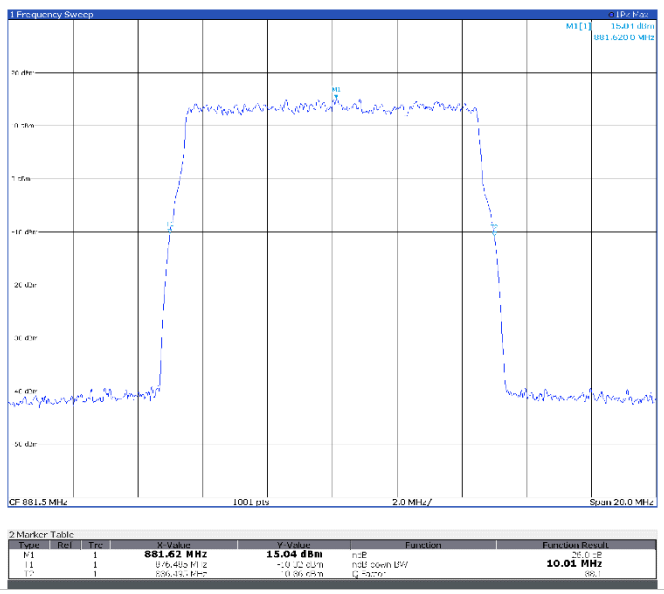
TM3p1a, 10 MHz, high channel



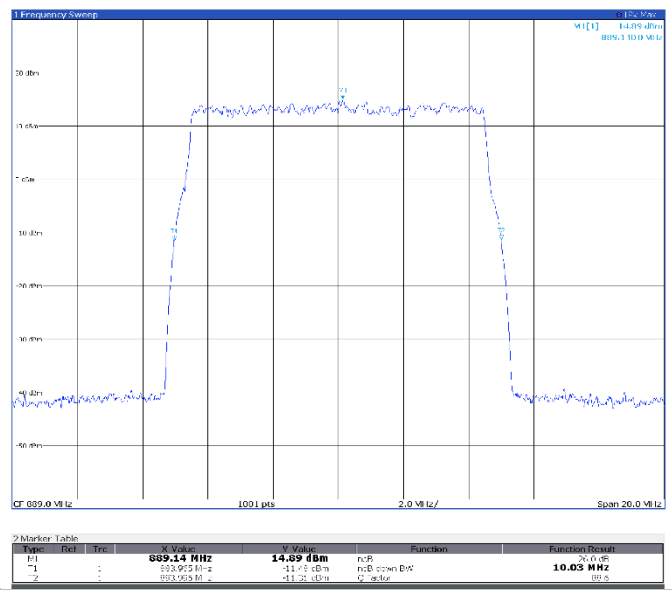
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



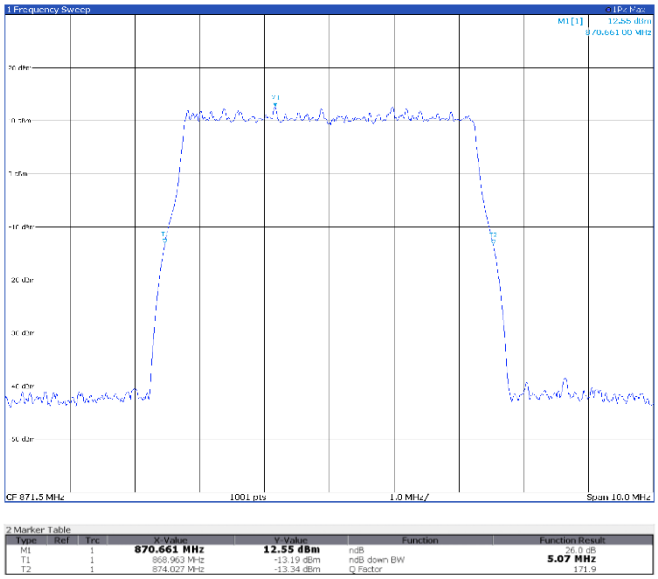
TM3p3, 10 MHz, high channel



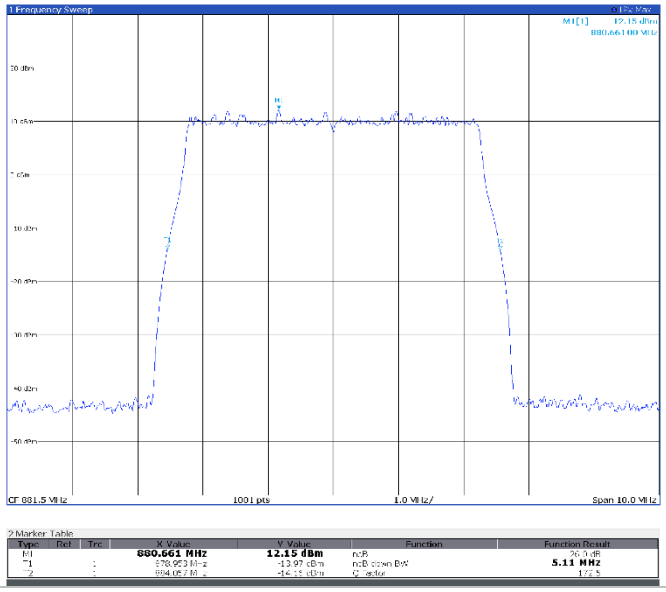
Antenna port 2

Band B5	**5 MHz**

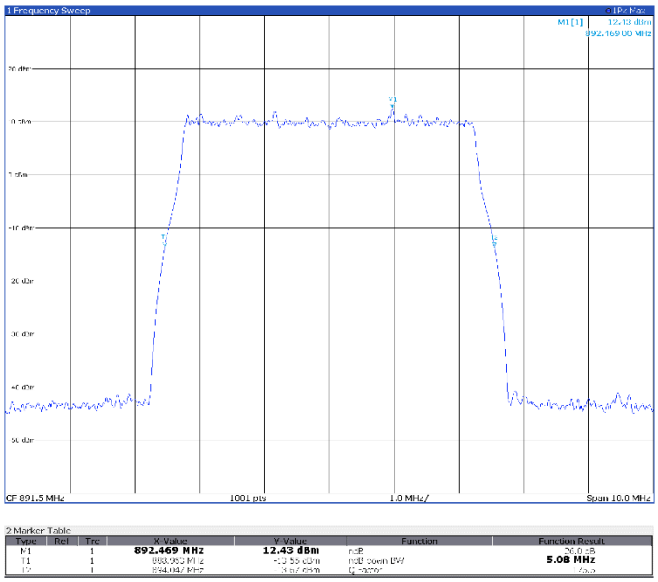
TM1.1, 5 MHz, low channel



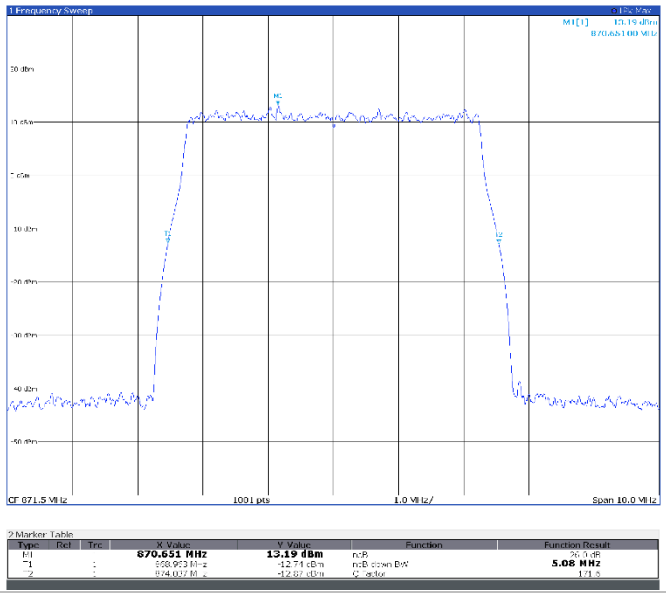
TM1.1, 5 MHz, mid channel



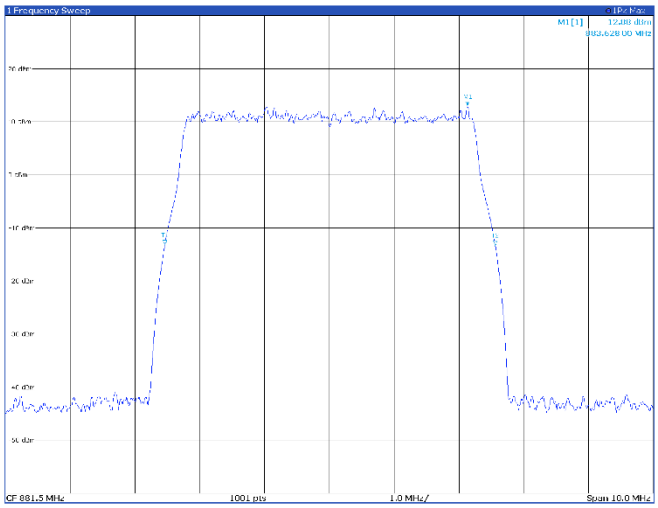
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel



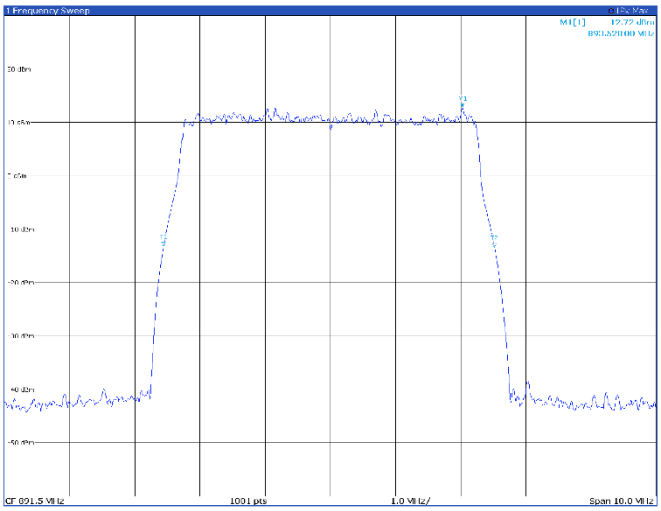
TM3p1, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	883.628 MHz	12.88 dBm	ndB	26.0 dB
T1		1	878.953 MHz	-13.14 dBm	ndB down BW	5.09 MHz
T2		1	884.017 MHz	-13.30 dBm	Q factor	173.4

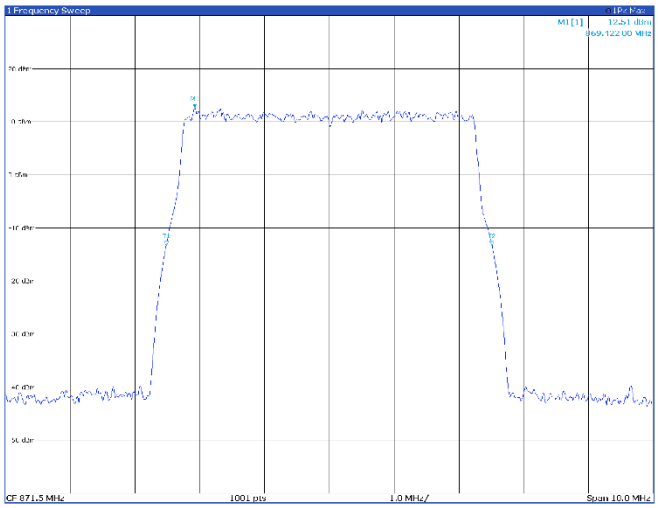
TM3p1, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	893.528 MHz	12.72 dBm	ndB	26.0 dB
T1		1	888.943 MHz	-13.22 dBm	ndB down BW	5.08 MHz
T2		1	894.017 MHz	-13.42 dBm	Q factor	175.1

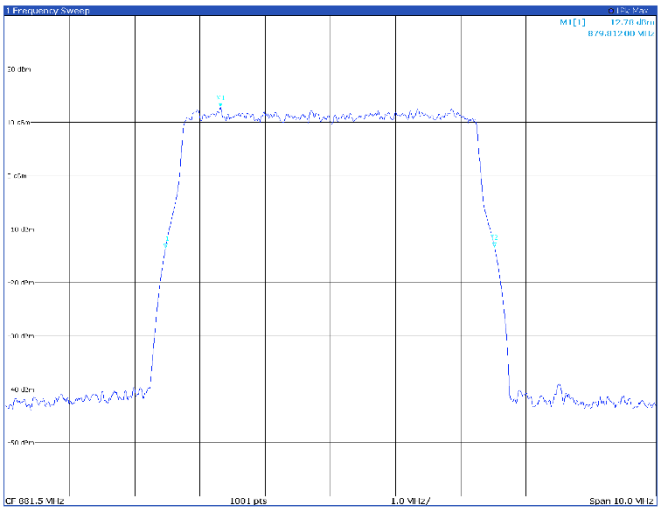
TM3p1a, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	869.422 MHz	12.51 dBm	ndB	26.0 dB
T1		1	863.993 MHz	-13.35 dBm	ndB down BW	5.03 MHz
T2		1	874.017 MHz	-13.33 dBm	Q factor	173.0

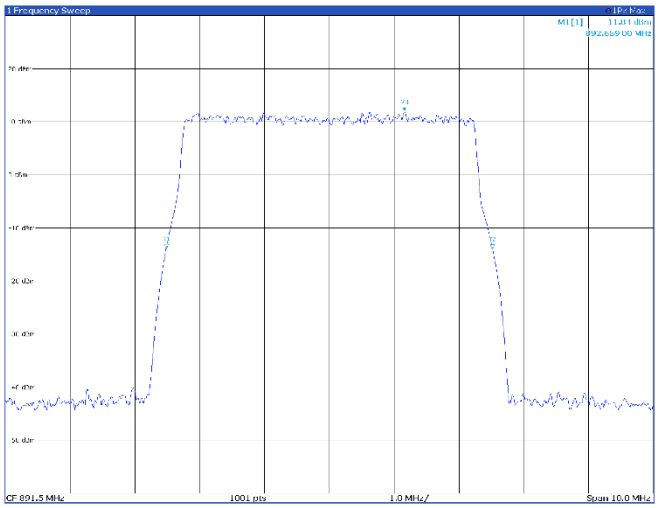
TM3p1a, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	879.812 MHz	12.78 dBm	ndB	26.0 dB
T1		1	878.973 MHz	-13.52 dBm	ndB down BW	5.04 MHz
T2		1	884.017 MHz	-13.38 dBm	Q factor	174.4

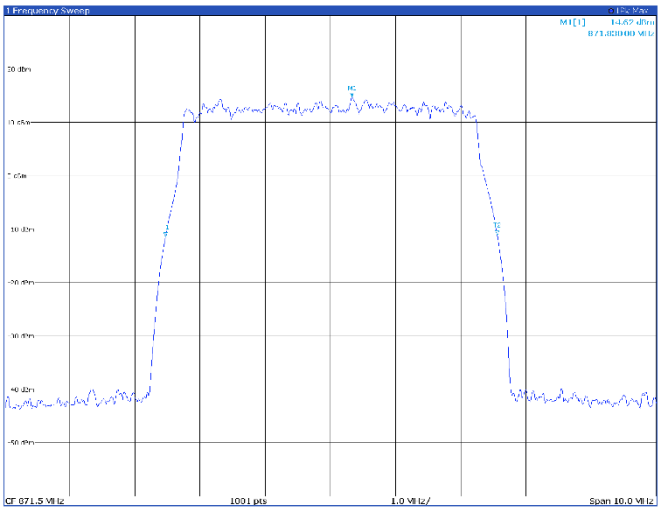
TM3p1a, 5 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	892.659 MHz	11.84 dBm	ncB	26.0 dB
T1		1	893.993 MHz	-13.93 dBm	ncB down BW	5.04 MHz
T2		1	894.017 MHz	4.03 dBm	Q factor	77.3

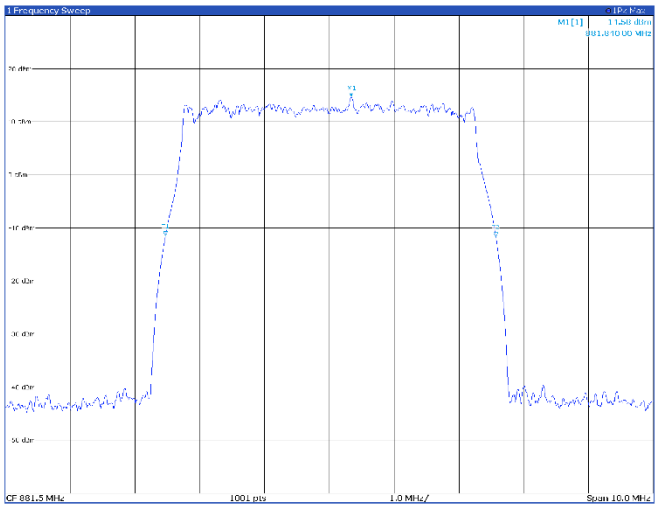
TM3p3, 5 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			871.83 MHz	14.62 dBm	ncB	26.0 dB
T1		1	868.973 MHz	-11.41 dBm	ncB down BW	5.08 MHz
T2		1	874.057 MHz	-11.07 dBm	Q factor	171.5

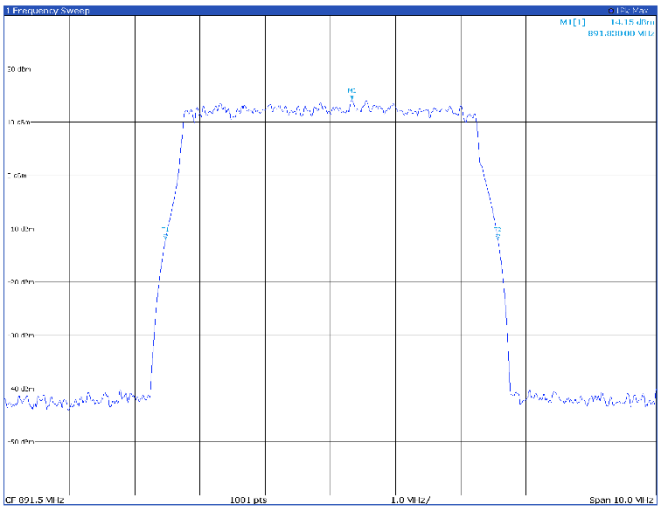
TM3p3, 5 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	881.84 MHz	14.58 dBm	ncB	26.0 dB
T1		1	878.973 MHz	-11.53 dBm	ncB down BW	5.09 MHz
T2		1	884.067 MHz	1.66 dBm	Q factor	73.

TM3p3, 5 MHz, high channel

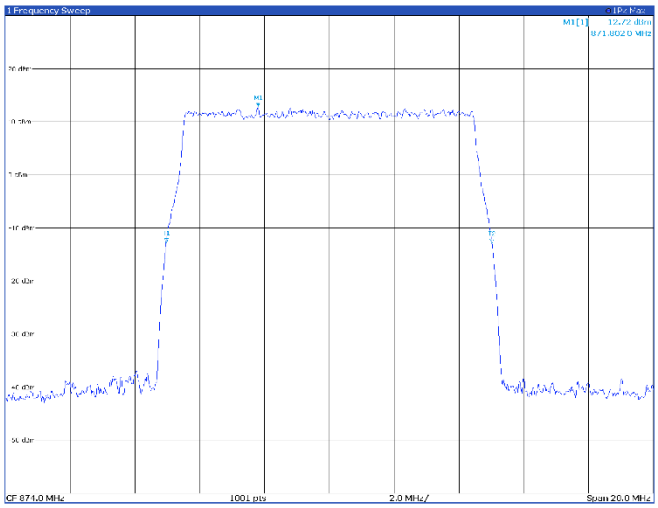


2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			891.83 MHz	14.15 dBm	ncB	26.0 dB
T1		1	888.973 MHz	-11.94 dBm	ncB down BW	5.09 MHz
T2		1	894.057 MHz	-12.00 dBm	Q factor	175.0

Band B5 | **10 MHz**

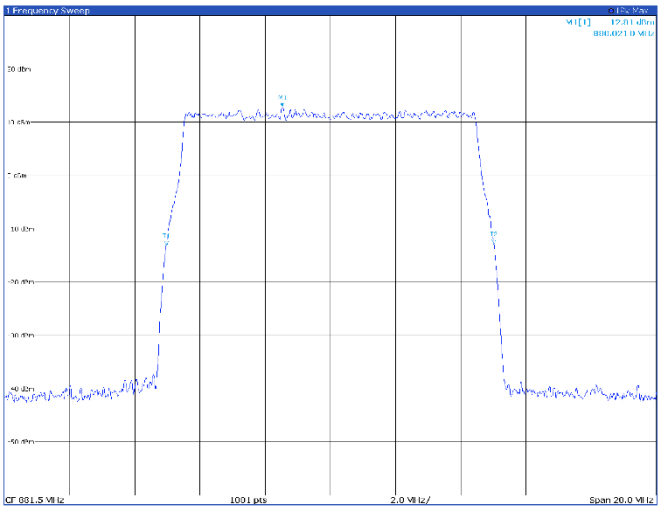
TM1.1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**871.802 MHz**	**12.72 dBm**	ndB	26.0 dB
T1		1	868.955 MHz	-12.79 dBm	ndB down BW	**10.05 MHz**
T2		1	879.01 MHz	-2.96 dBm	Q-factor	86.7

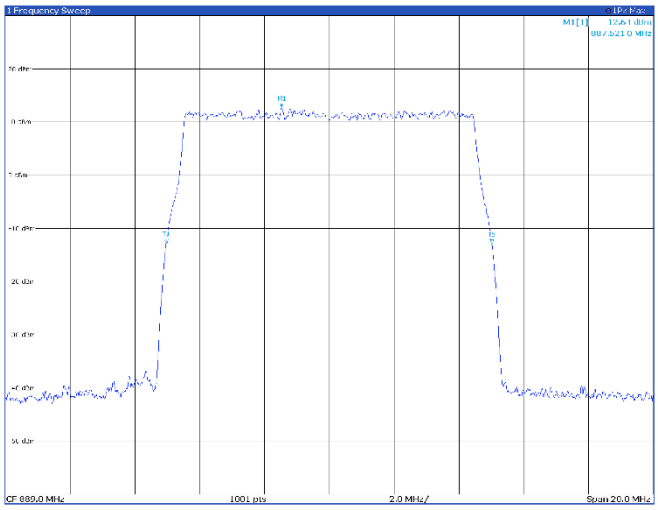
TM1.1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**880.021 MHz**	**12.81 dBm**	ndB	26.0 dB
T1			876.455 MHz	-13.17 dBm	ndB down BW	**10.05 MHz**
T2			886.55 MHz	-12.85 dBm	Q-factor	87.5

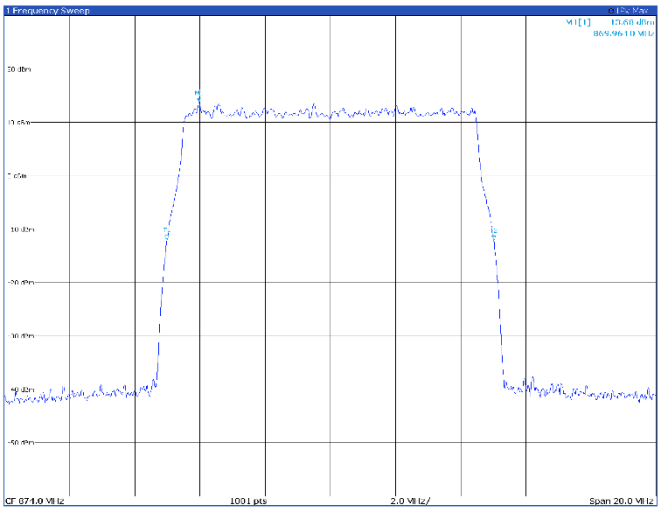
TM1.1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	**887.521 MHz**	**12.64 dBm**	ndB	26.0 dB
T1		1	883.965 MHz	-12.90 dBm	ndB down BW	**10.05 MHz**
T2		1	894.015 MHz	-13.02 dBm	Q-factor	88.3

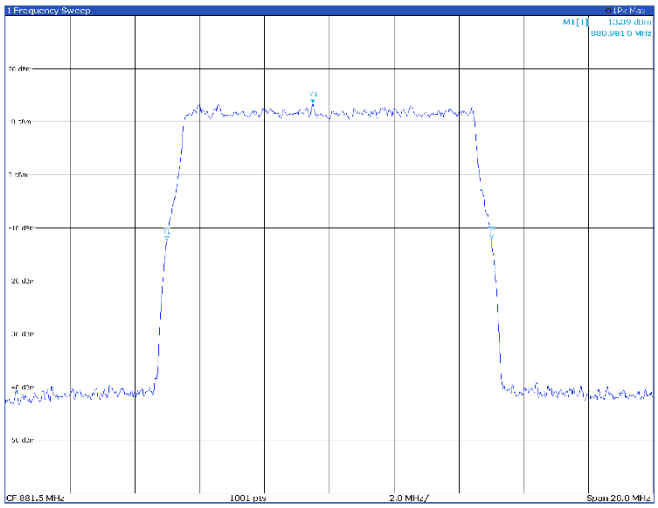
TM3p1, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1			**869.964 MHz**	**13.03 dBm**	ndB	26.0 dB
T1			868.965 MHz	-12.91 dBm	ndB down BW	**10.03 MHz**
T2			879.015 MHz	-12.96 dBm	Q-factor	86.7

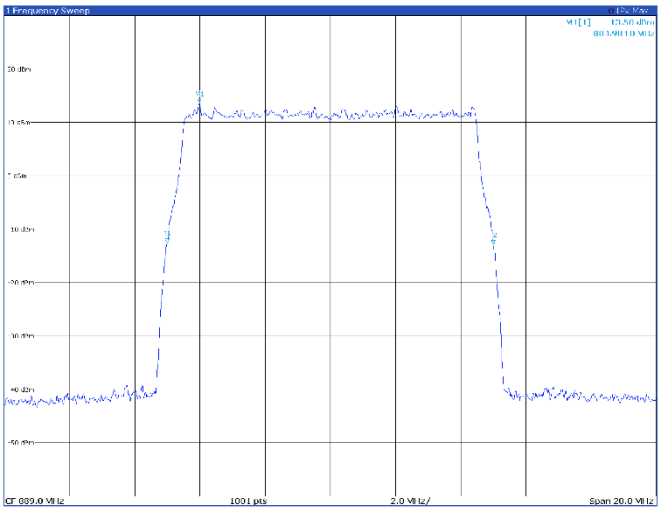
TM3p1, 10 MHz, mid channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**880.981 MHz**	**13.39 dBm**	ncB	26.0 dB
T1		1	876.485 MHz	-12.46 dBm	ncB down BW	**10.01 MHz**
T2		1	886.485 MHz	-12.46 dBm	Q factor	88.0

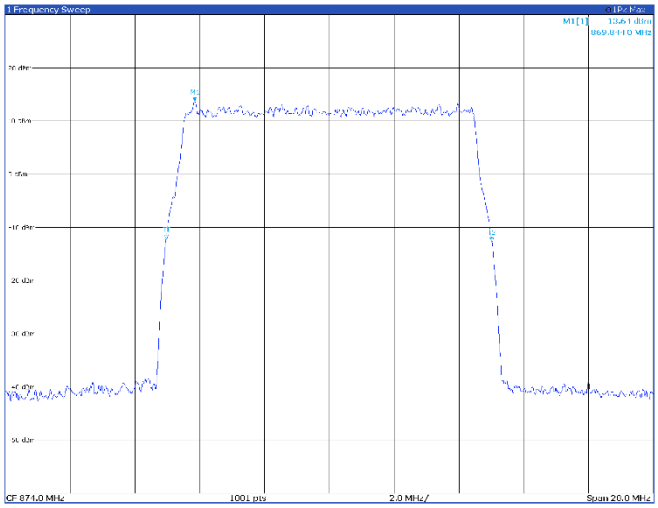
TM3p1, 10 MHz, high channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**884.984 MHz**	**13.50 dBm**	ncB	26.0 dB
T1			884.015 MHz	-12.61 dBm	ncB down BW	**9.99 MHz**
T2			894.015 MHz	-12.61 dBm	Q factor	88.5

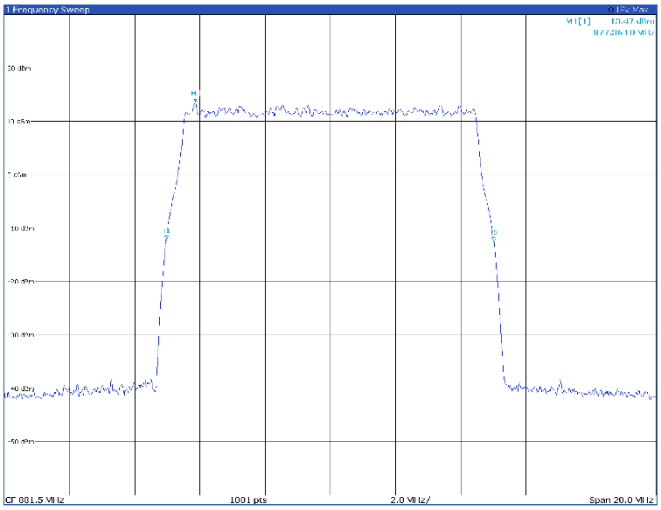
TM3p1a, 10 MHz, low channel



2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1		1	**869.844 MHz**	**13.64 dBm**	ncB	26.0 dB
T1		1	868.955 MHz	-12.41 dBm	ncB down BW	**10.05 MHz**
T2		1	878.955 MHz	-12.41 dBm	Q factor	86.6

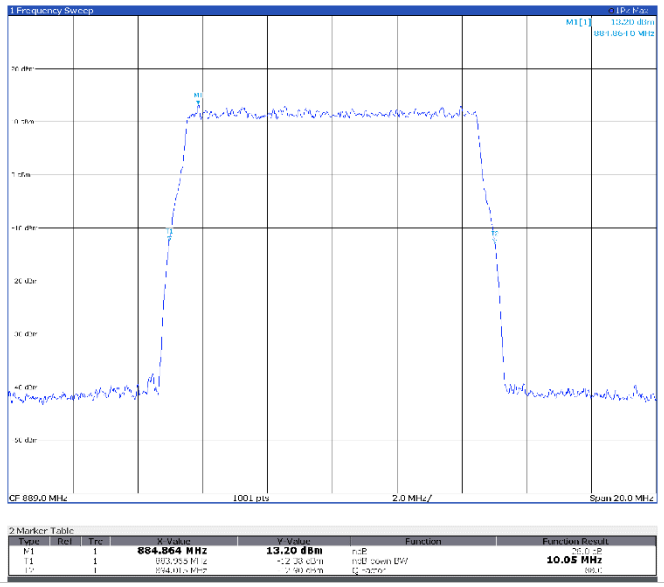
TM3p1a, 10 MHz, mid channel



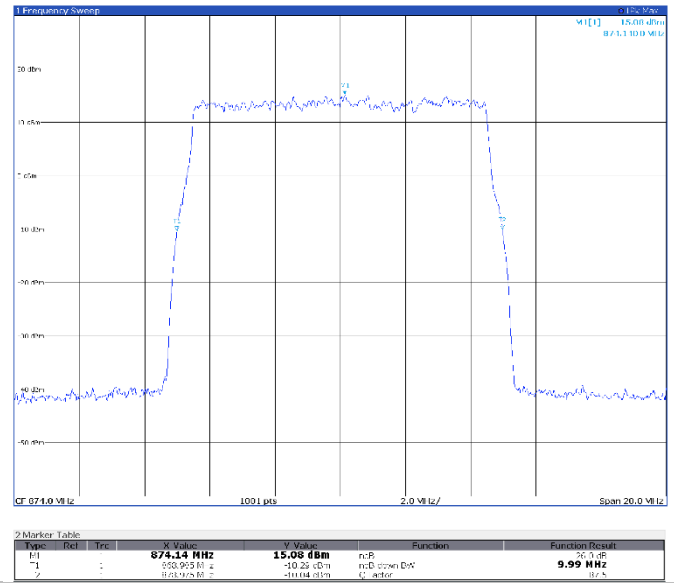
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
N1			**877.364 MHz**	**13.47 dBm**	ncB	26.0 dB
T1			876.455 MHz	-12.25 dBm	ncB down BW	**10.05 MHz**
T2			886.515 MHz	-12.25 dBm	Q factor	87.1

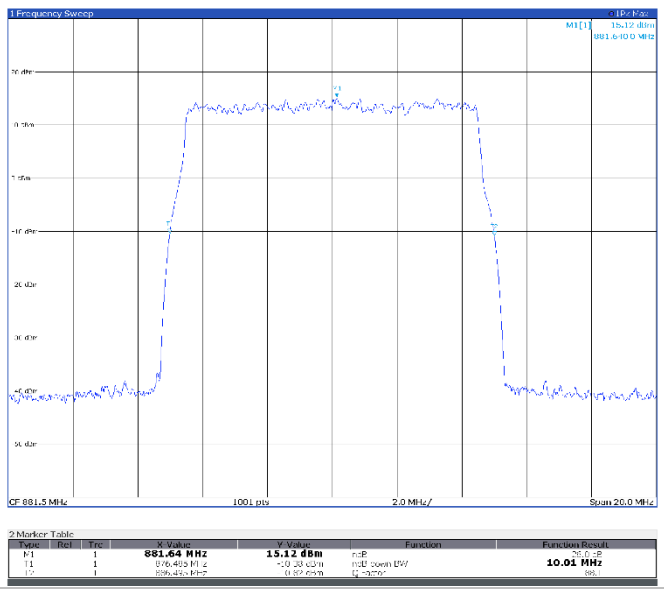
TM3p1a, 10 MHz, high channel



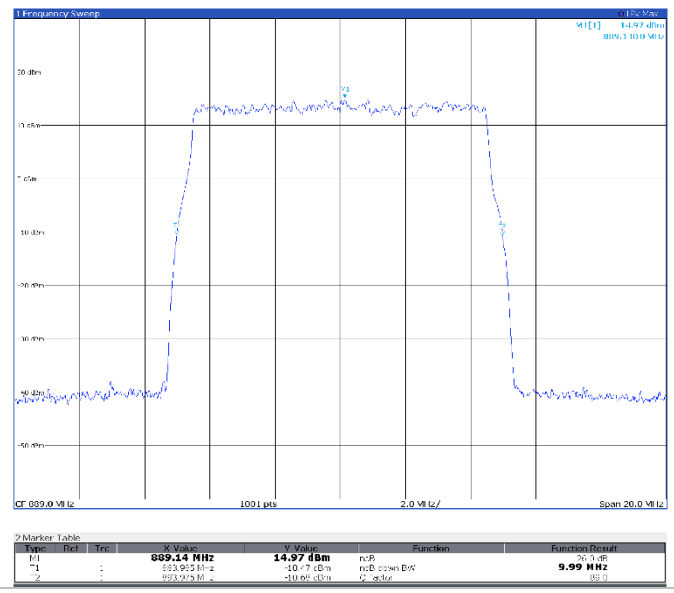
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



TM3p3, 10 MHz, high channel



8.4 FCC 22.913 Effective radiated power limits

8.4.1 Definitions and limits

Licensees 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

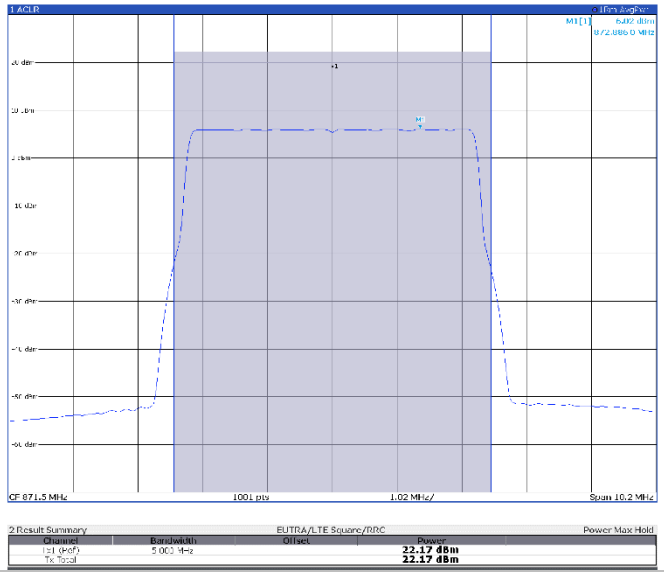
Band B5:

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

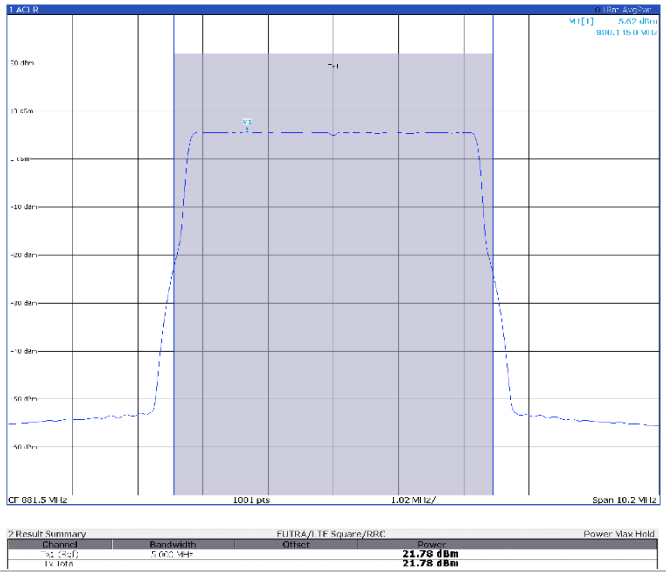
Antenna port 1

Band B5	5 MHz

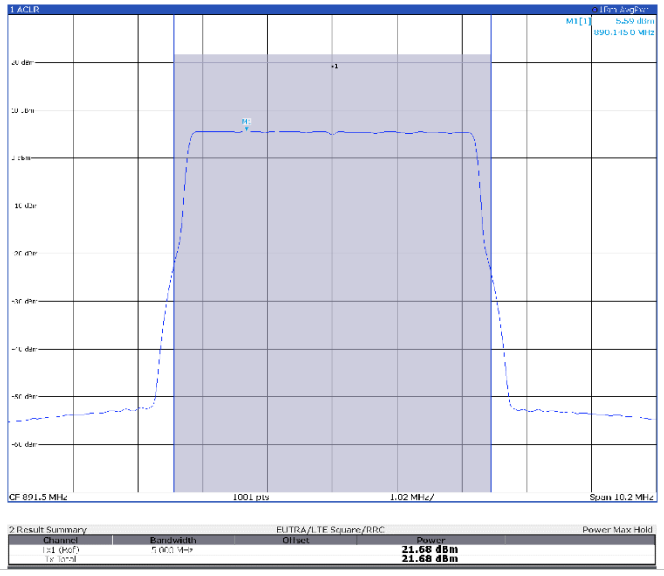
TM1.1, 5 MHz, low channel



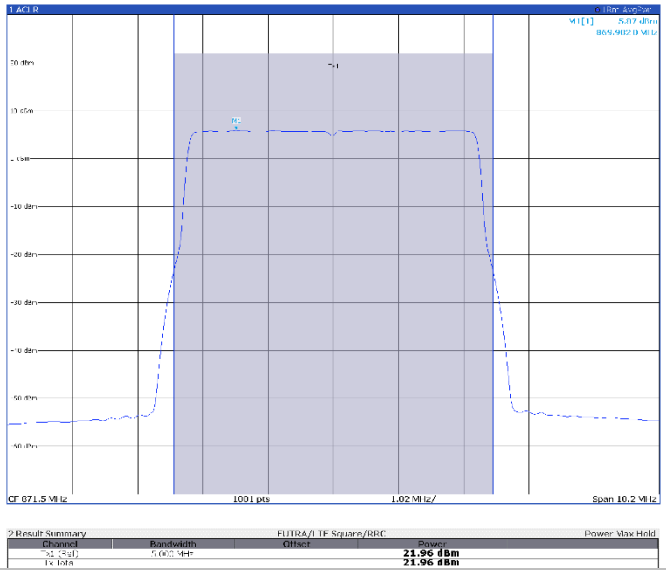
TM1.1, 5 MHz, mid channel



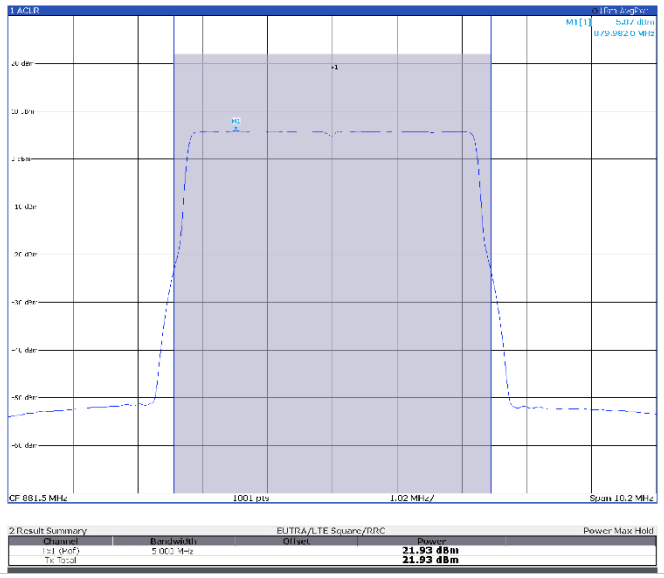
TM1.1, 5 MHz, high channel



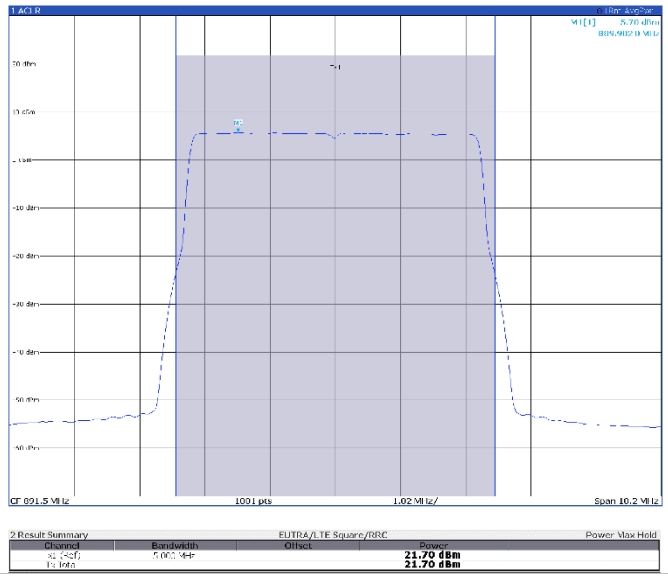
TM3p1, 5 MHz, low channel



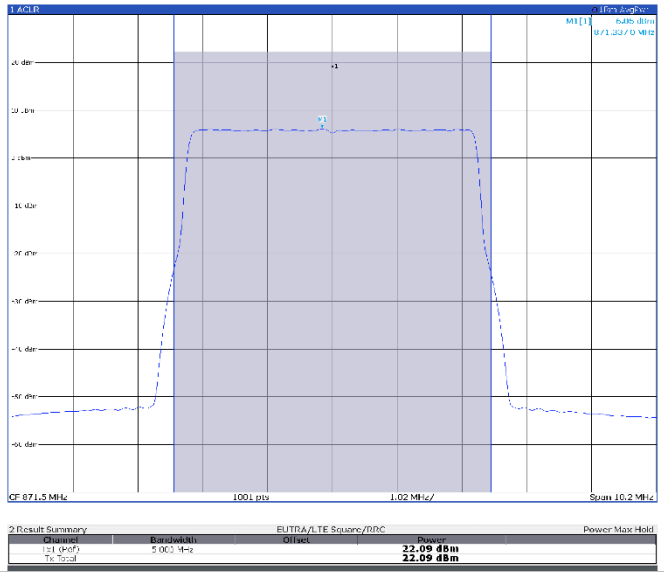
TM3p1, 5 MHz, mid channel



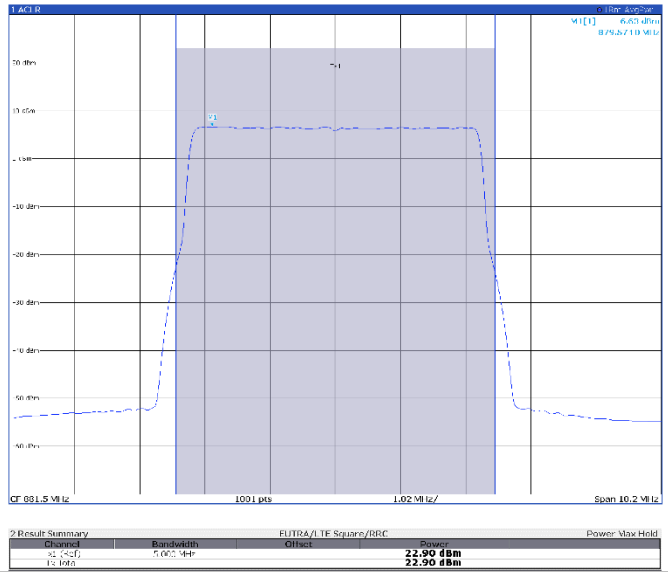
TM3p1, 5 MHz, high channel



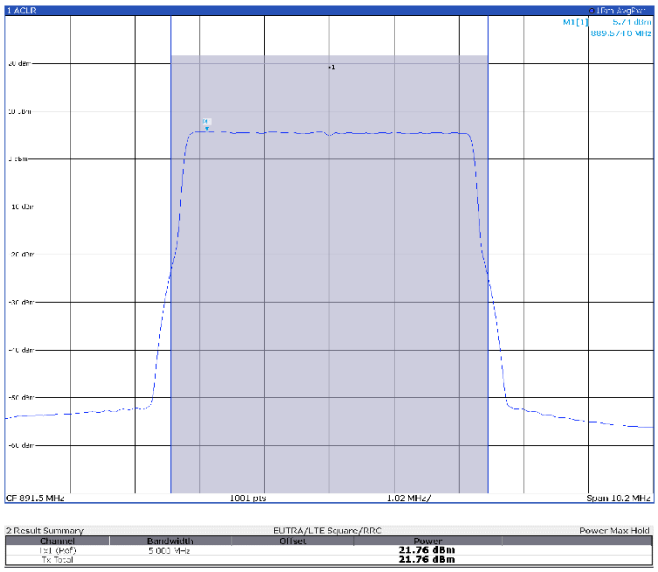
TM3p1a, 5 MHz, low channel



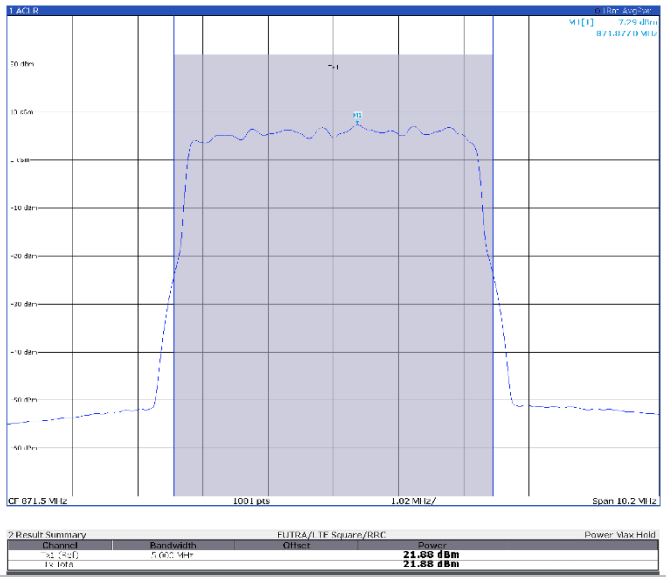
TM3p1a, 5 MHz, mid channel



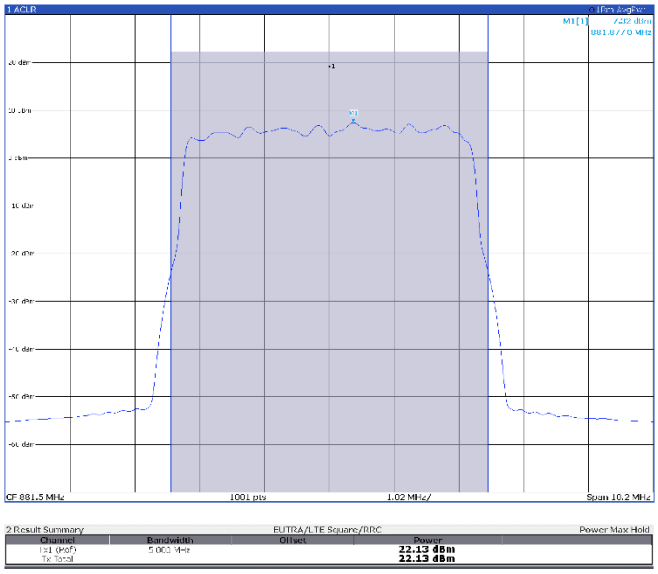
TM3p1a, 5 MHz, high channel



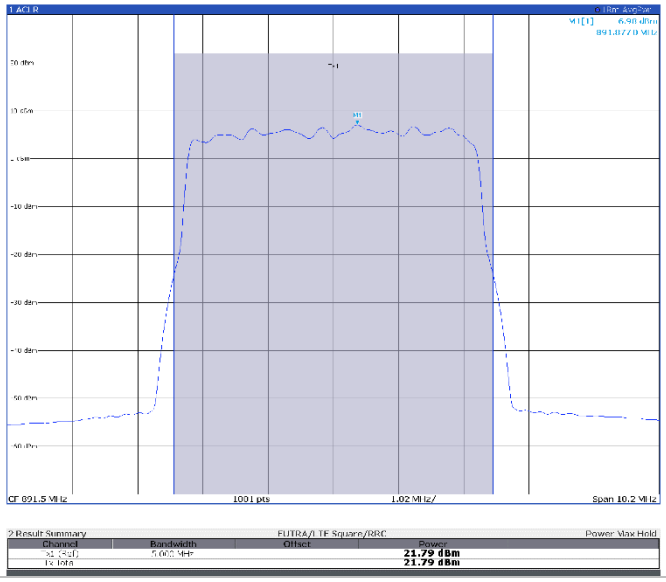
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel

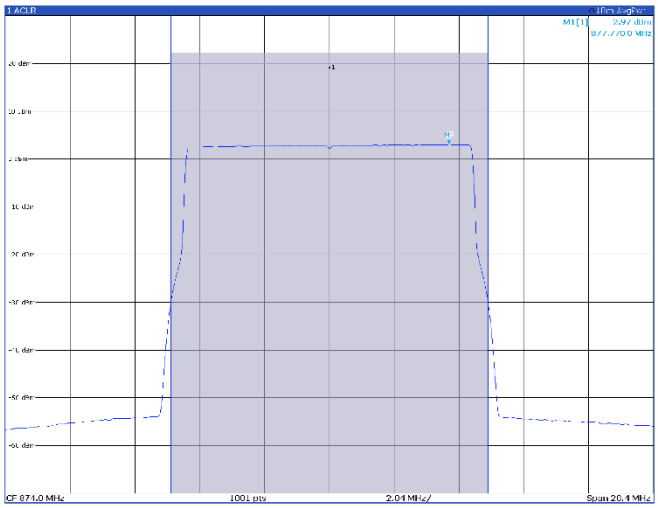


TM3p3, 5 MHz, high channel



Band B5 | **10 MHz**

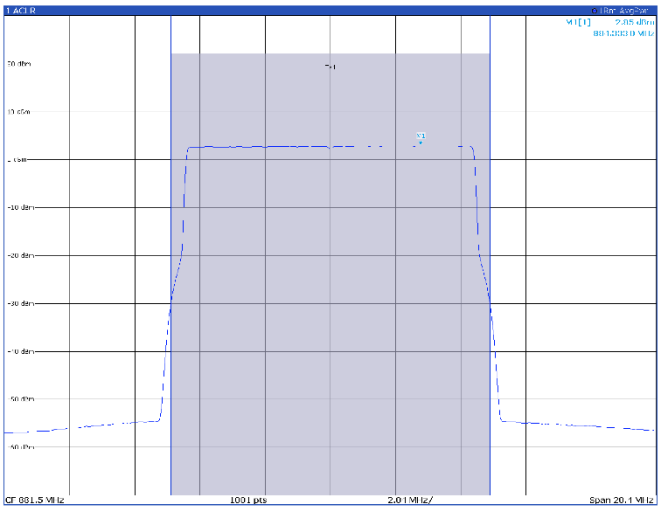
TM1.1, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (ref)	10.000 MHz		22.09 dBm
Tx total			22.09 dBm

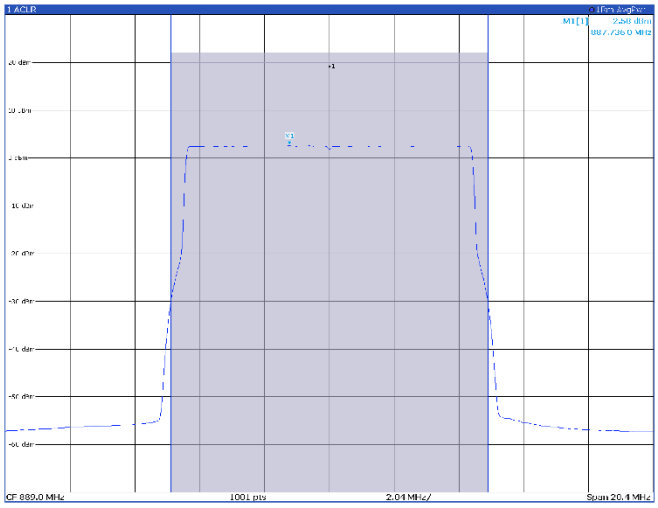
TM1.1, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (ref)	10.000 MHz		22.01 dBm
Tx total			22.01 dBm

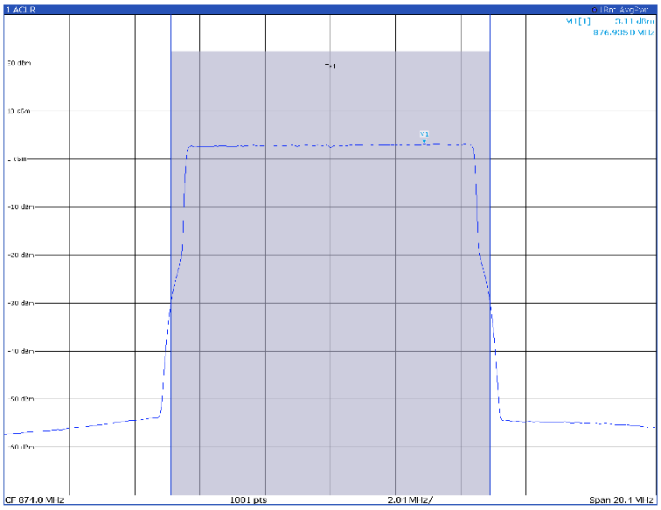
TM1.1, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (ref)	10.000 MHz		21.98 dBm
Tx total			21.98 dBm

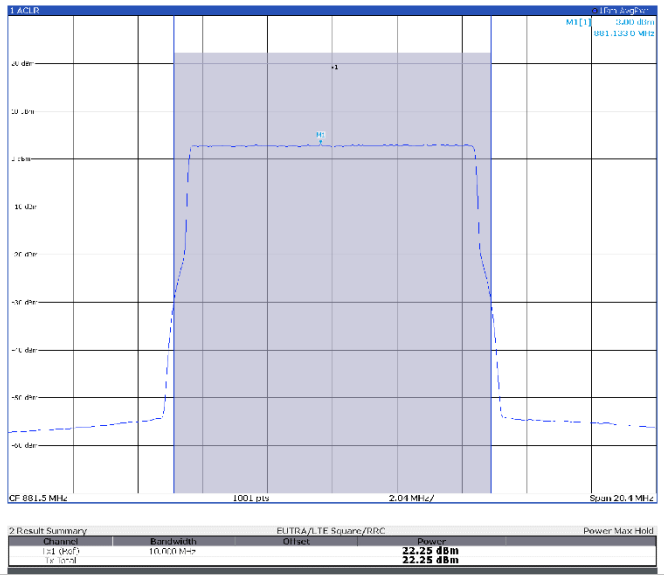
TM3p1, 10 MHz, low channel



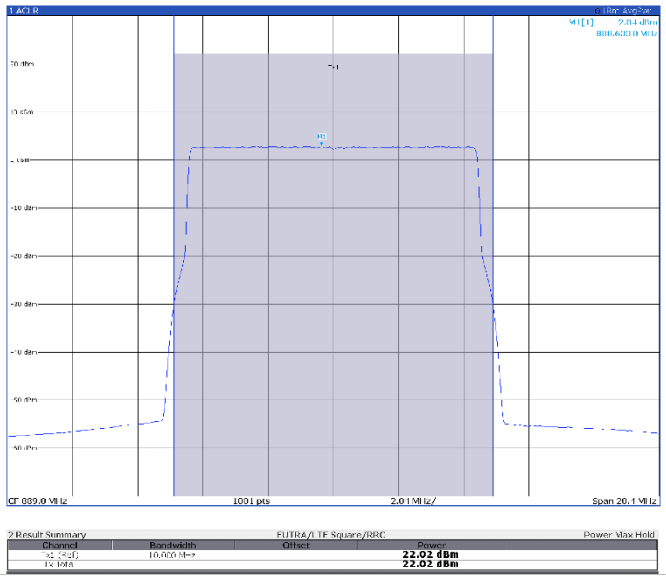
2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Tx1 (ref)	10.000 MHz		22.30 dBm
Tx total			22.30 dBm

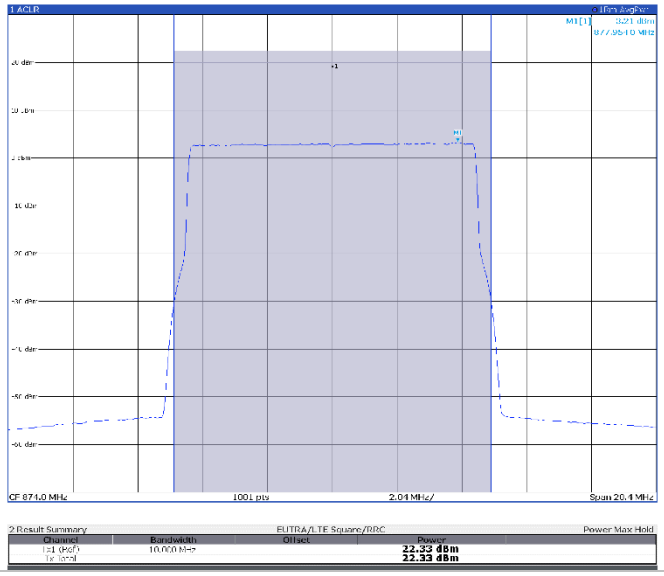
TM3p1, 10 MHz, mid channel



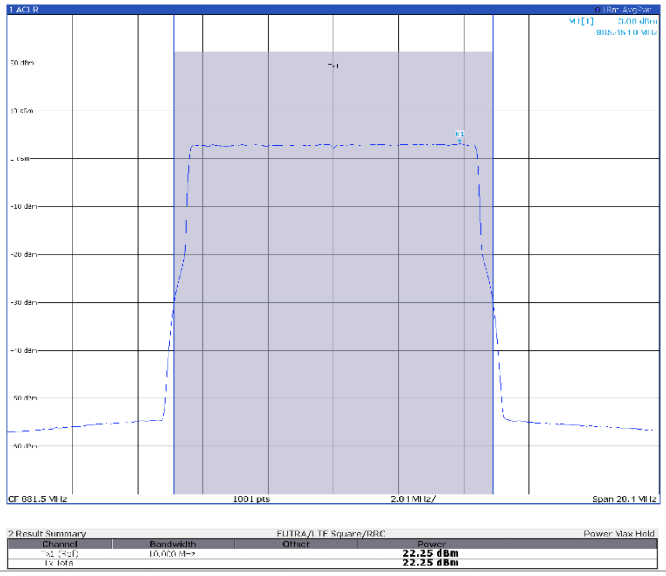
TM3p1, 10 MHz, high channel



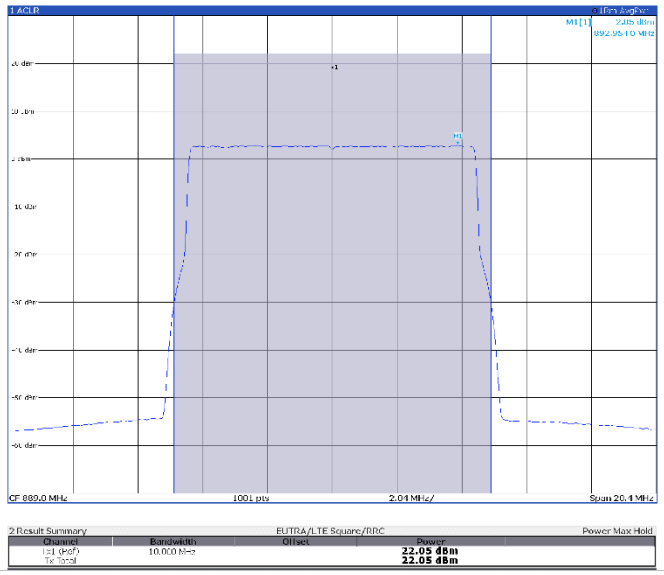
TM3p1a, 10 MHz, low channel



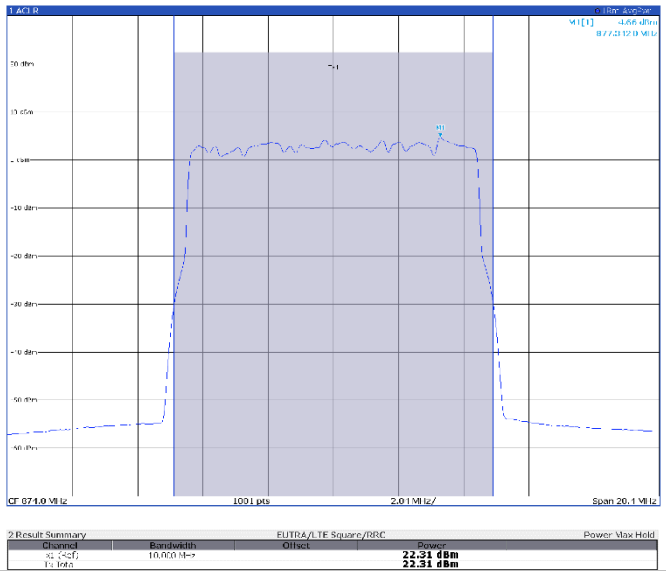
TM3p1a, 10 MHz, mid channel



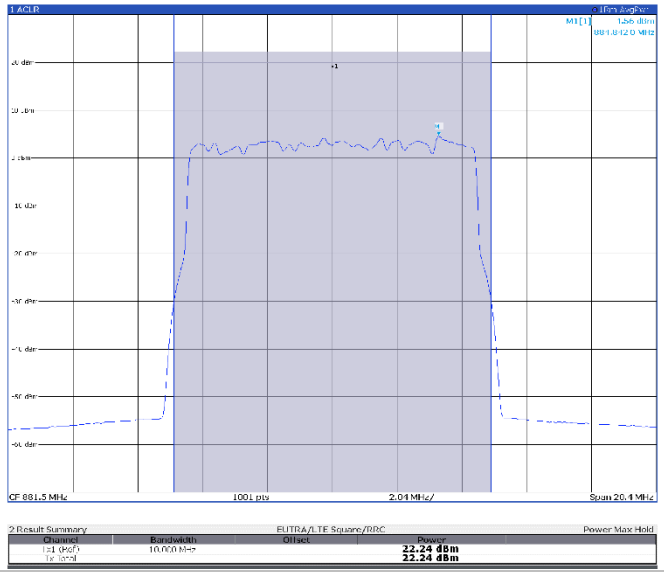
TM3p1a, 10 MHz, high channel



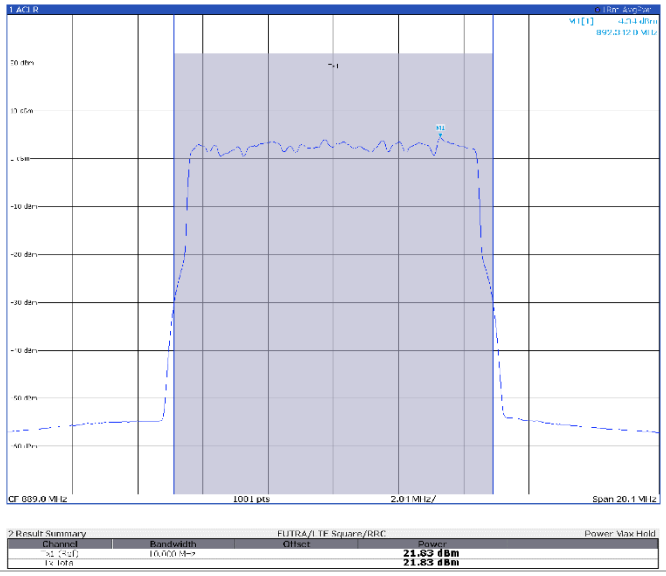
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



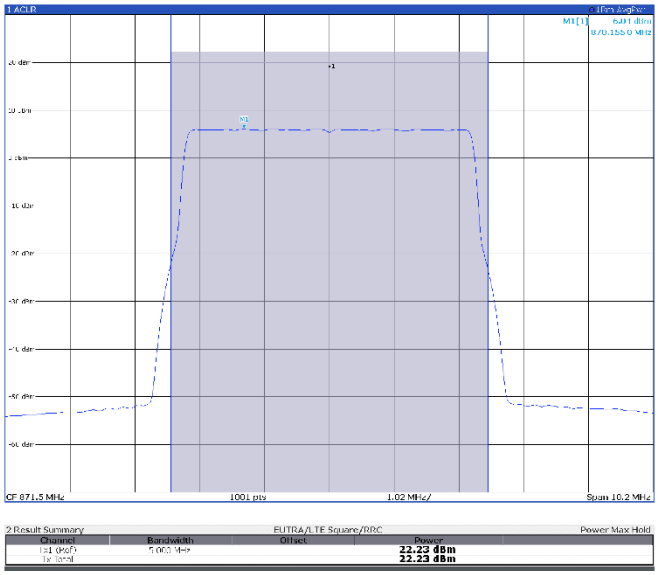
TM3p3, 10 MHz, high channel



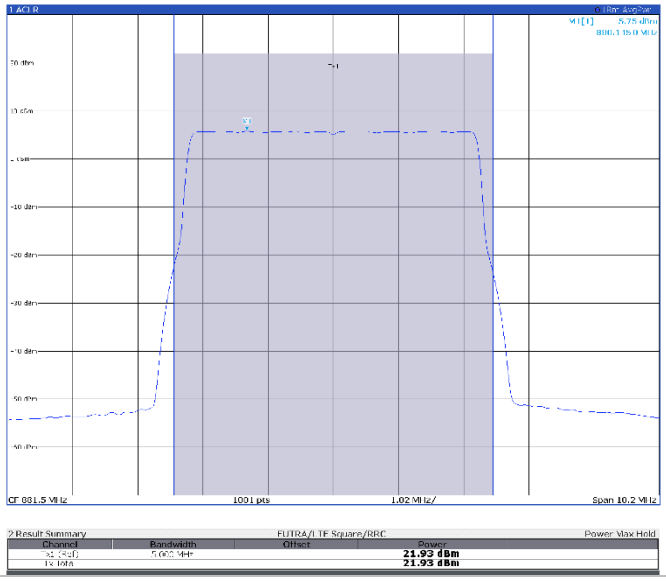
Antenna port 2

Band B5	5 MHz

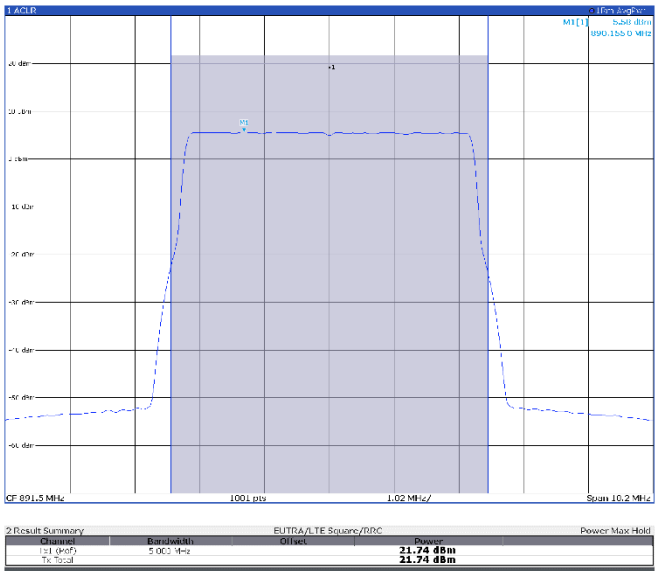
TM1.1, 5 MHz, low channel



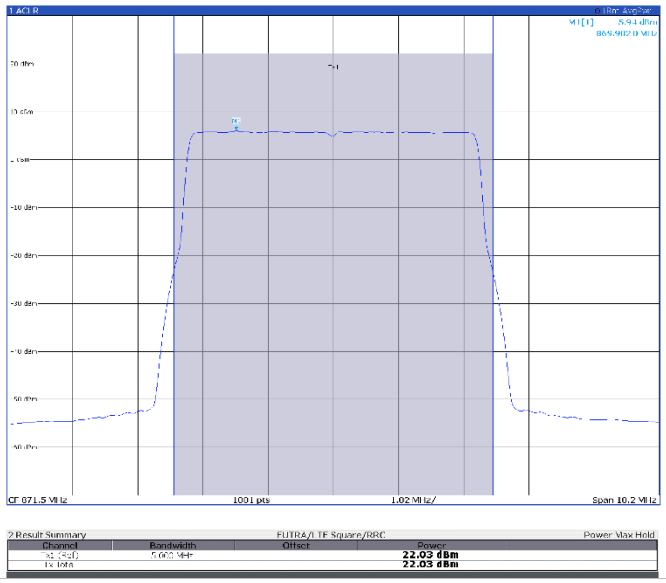
TM1.1, 5 MHz, mid channel



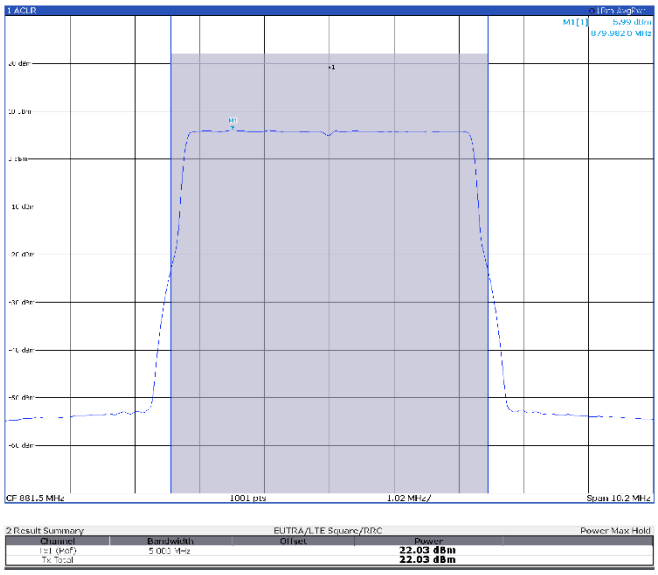
TM1.1, 5 MHz, high channel



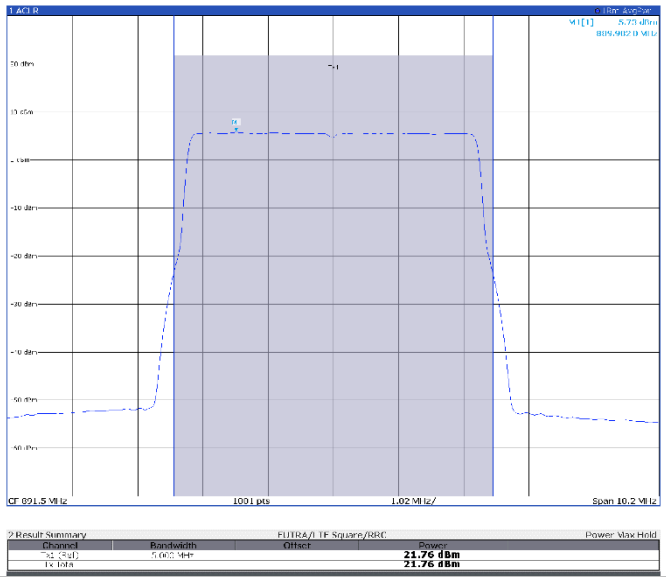
TM3p1, 5 MHz, low channel



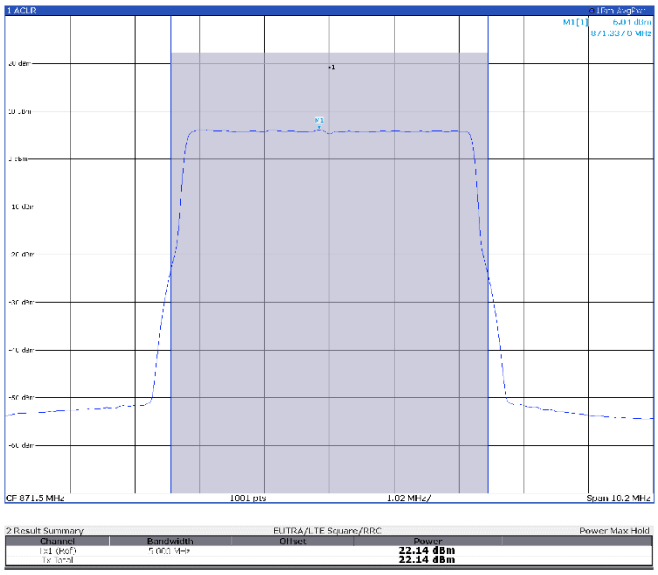
TM3p1, 5 MHz, mid channel



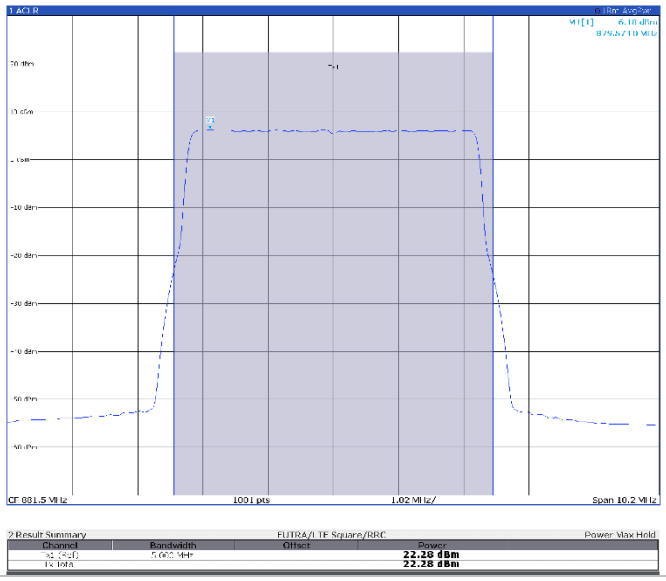
TM3p1, 5 MHz, high channel



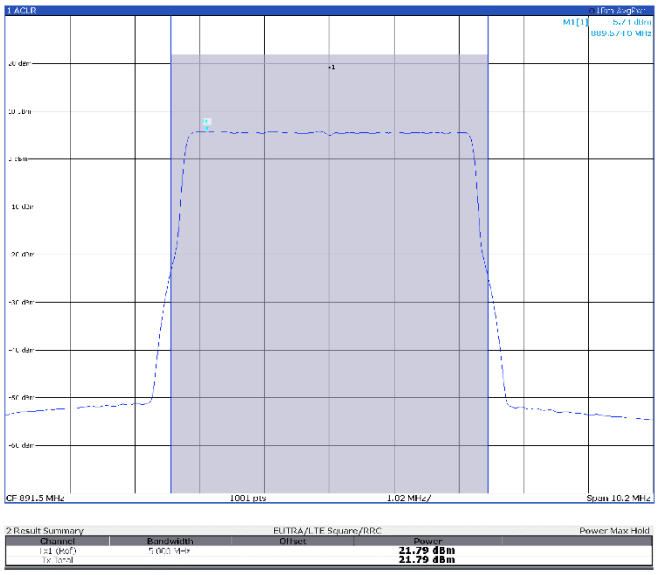
TM3p1a, 5 MHz, low channel



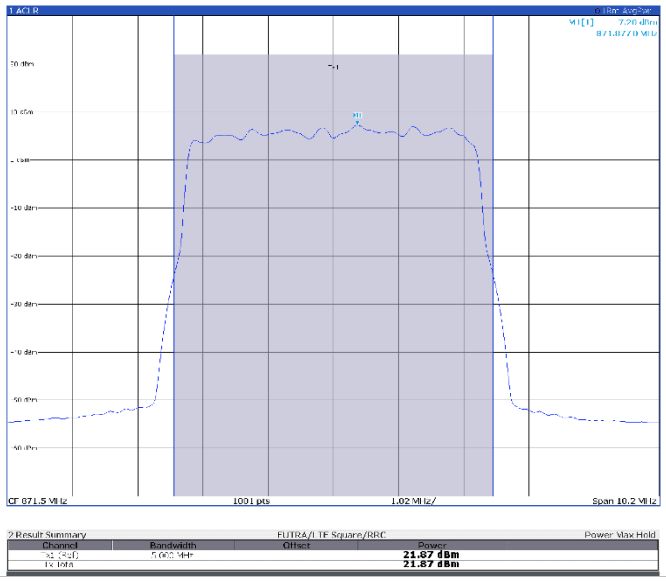
TM3p1a, 5 MHz, mid channel



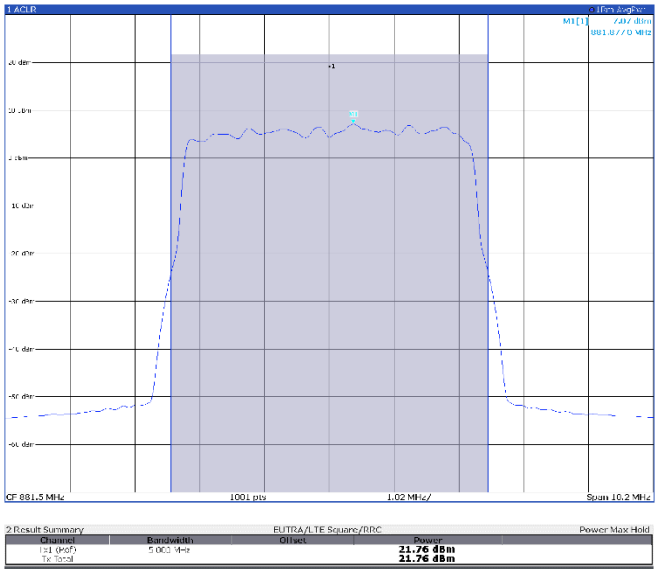
TM3p1a, 5 MHz, high channel



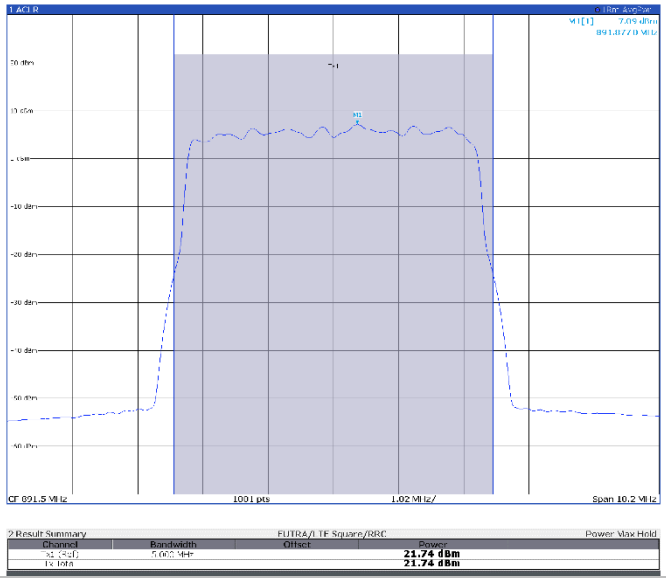
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel

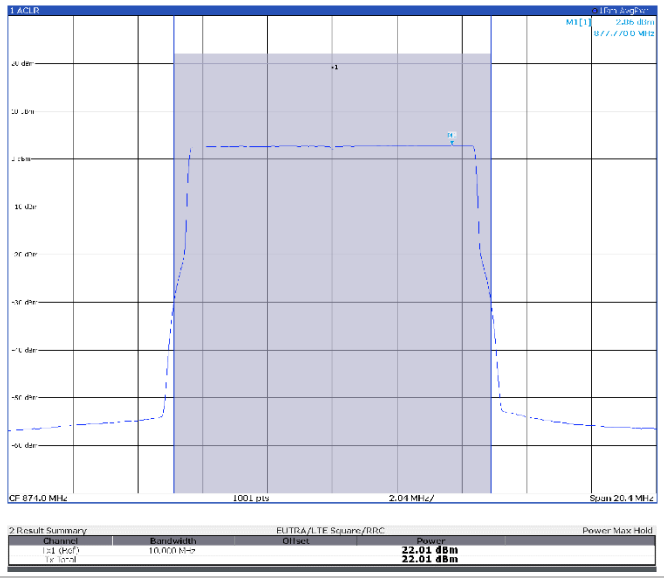


TM3p3, 5 MHz, high channel

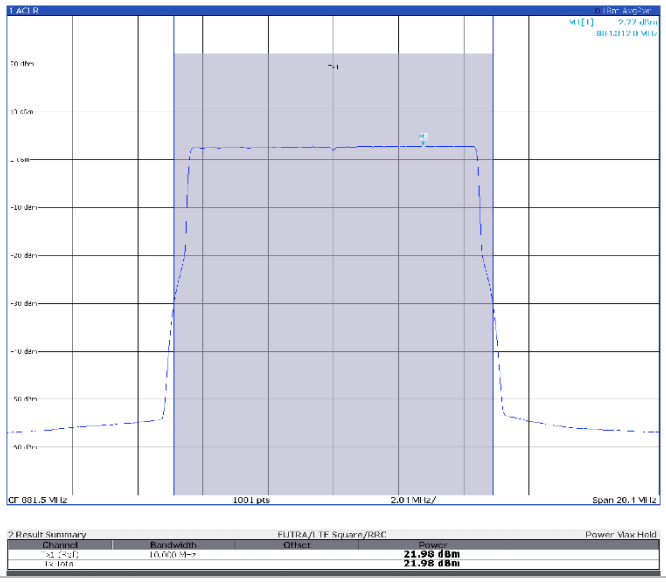


Band B5 **10 MHz**

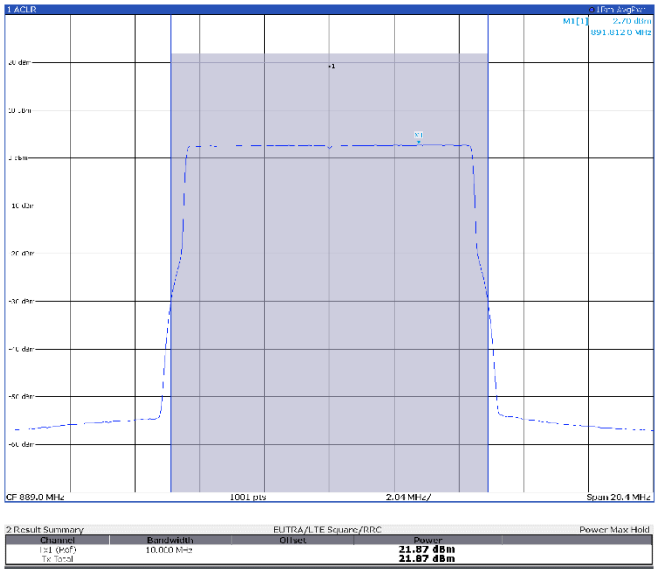
TM1.1, 10 MHz, low channel



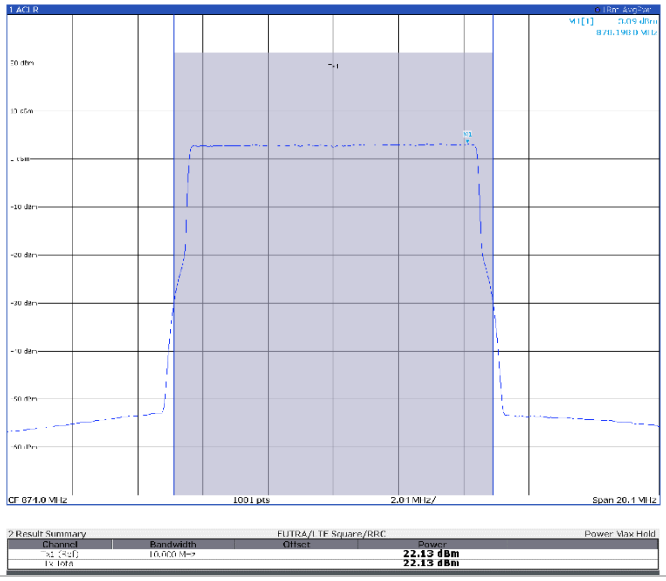
TM1.1, 10 MHz, mid channel



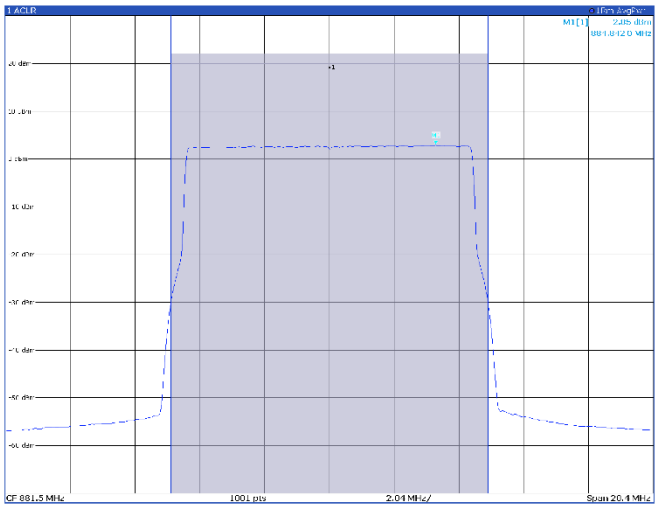
TM1.1, 10 MHz, high channel



TM3p1, 10 MHz, low channel



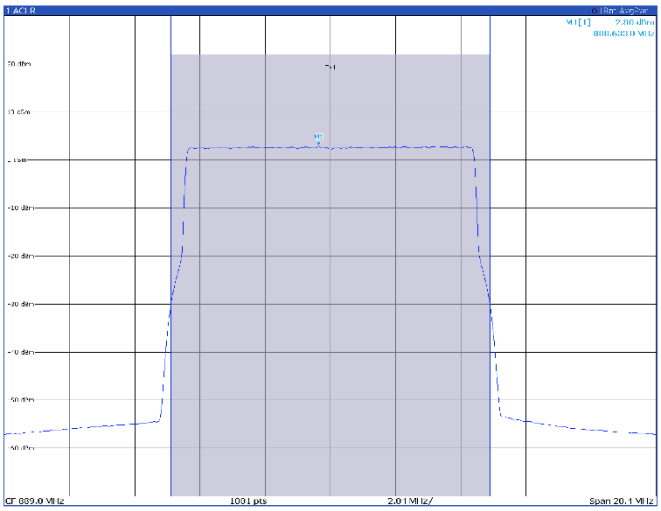
TM3p1, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (Ref)	10.000 MHz		22.02 dBm
Tx Total			22.02 dBm

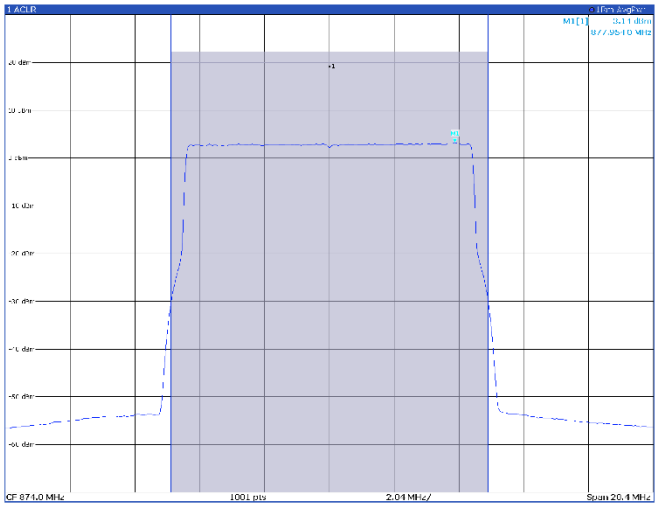
TM3p1, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (Ref)	10.000 MHz		21.90 dBm
Tx Total			21.90 dBm

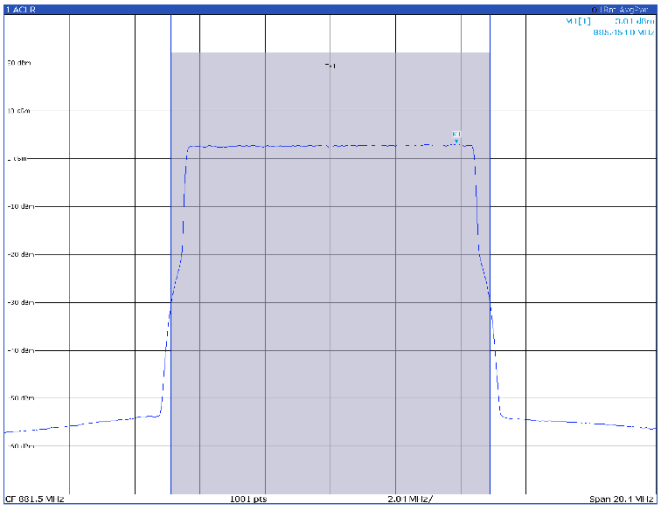
TM3p1a, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (Ref)	10.000 MHz		22.11 dBm
Tx Total			22.11 dBm

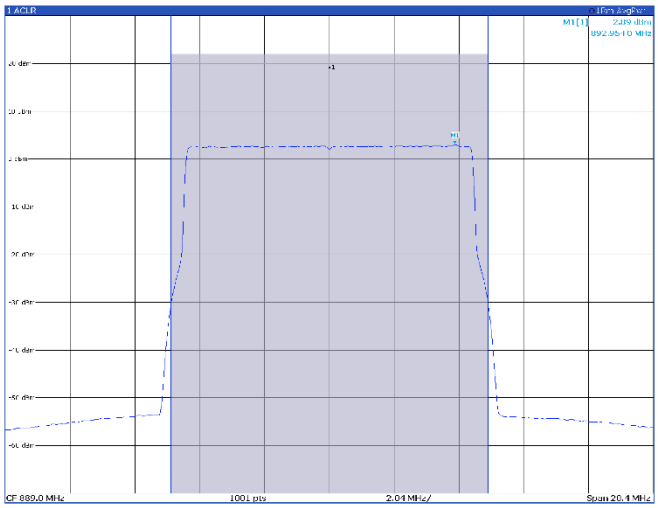
TM3p1a, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (Ref)	10.000 MHz		21.99 dBm
Tx Total			21.99 dBm

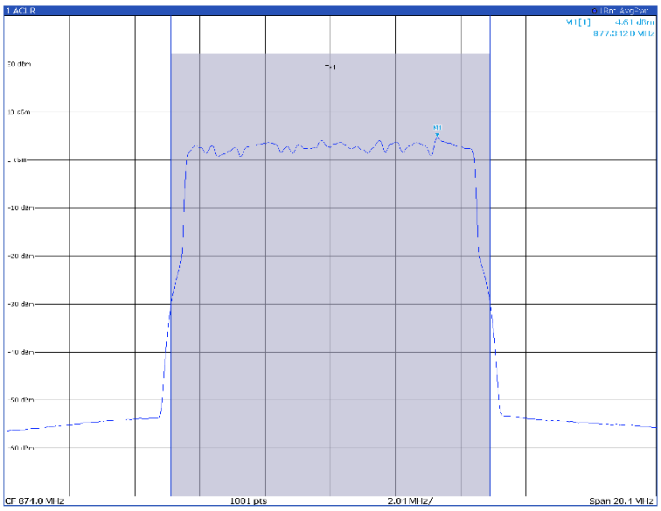
TM3p1a, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (ref)	10.000 MHz		**21.89 dBm**
Tx Total			**21.89 dBm**

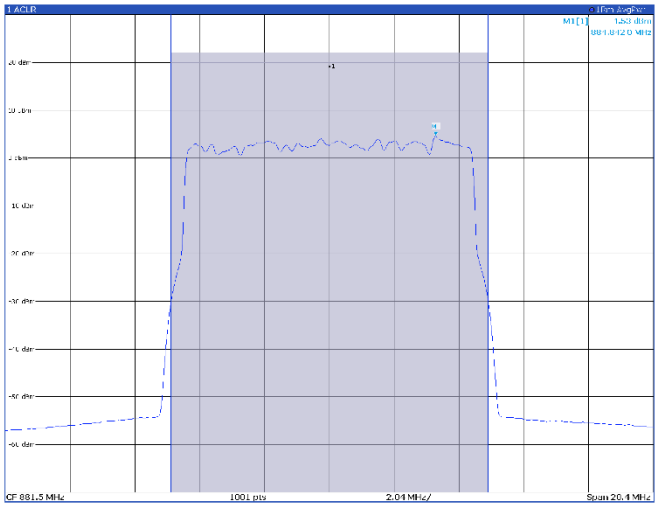
TM3p3, 10 MHz, low channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (ref)	10.000 MHz		**22.16 dBm**
Tx Total			**22.16 dBm**

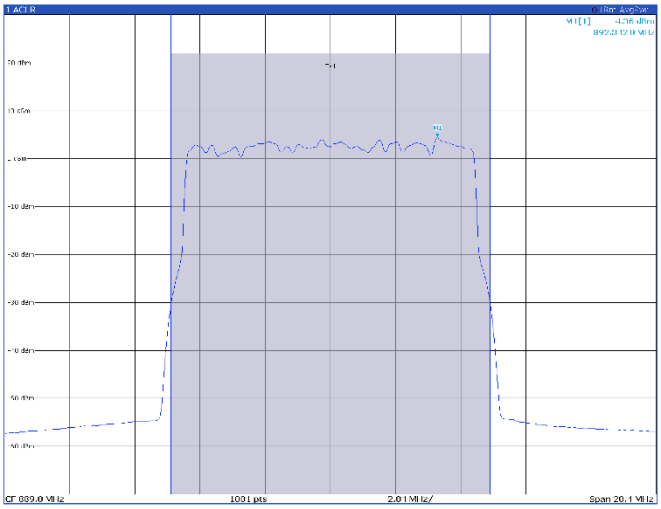
TM3p3, 10 MHz, mid channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (ref)	10.000 MHz		**21.98 dBm**
Tx Total			**21.98 dBm**

TM3p3, 10 MHz, high channel



2 Result Summary — EUTRA/LTE Square/RRC — Power Max Hold

Channel	Bandwidth	Offset	Power
Ix1 (ref)	10.000 MHz		**21.88 dBm**
Tx Total			**21.88 dBm**

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

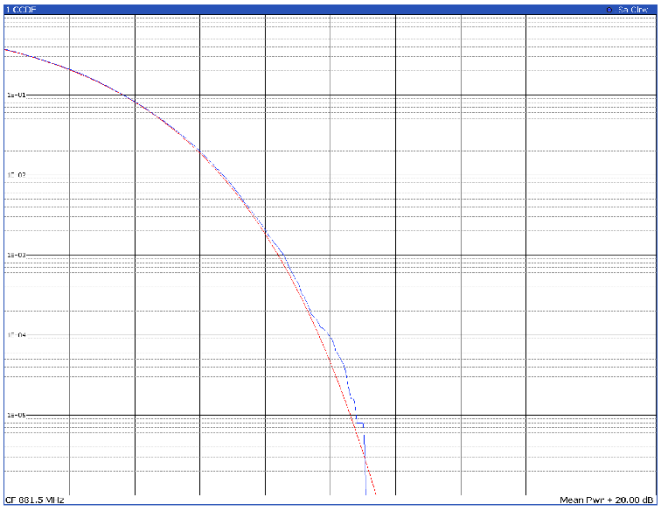
Band B5	**5 MHz**

TM1.1, 5 MHz, low channel

2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.79 dBm	31.65 dBm	10.86 dB	3.54 dB	6.72 dB	8.56 dB	9.78 dB

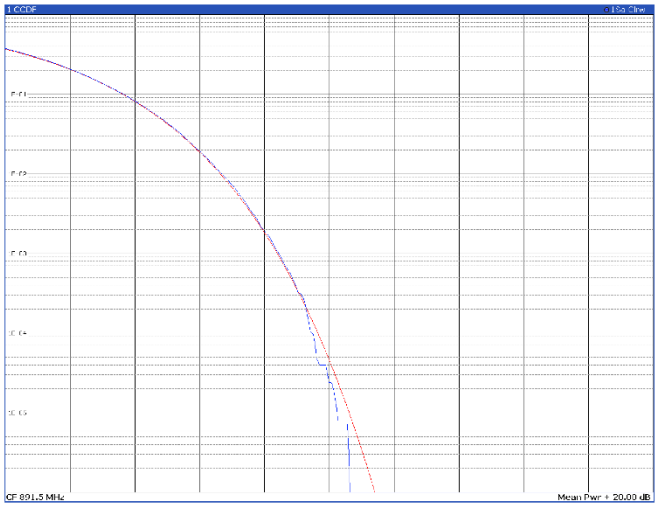
TM1.1, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.54 dBm	31.48 dBm	10.95 dB	3.66 dB	6.70 dB	8.50 dB	9.94 dB

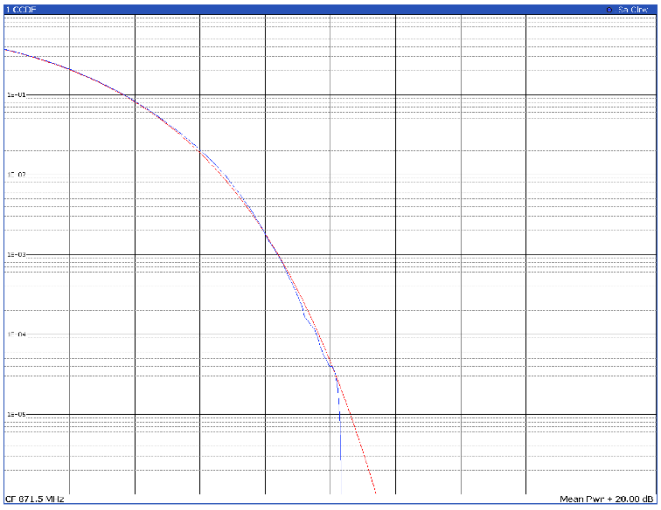
TM1.1, 5 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.40 dBm	30.91 dBm	10.51 dB	3.54 dB	6.63 dB	8.47 dB	9.46 dB

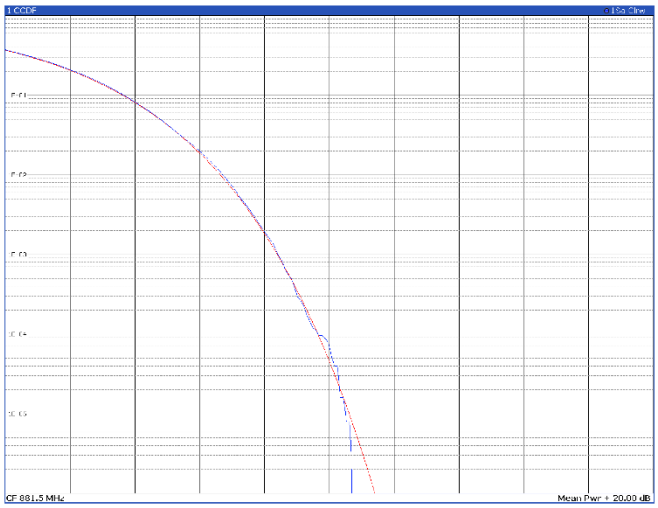
TM3p1, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.76 dBm	31.02 dBm	10.26 dB	3.66 dB	6.70 dB	8.38 dB	9.38 dB

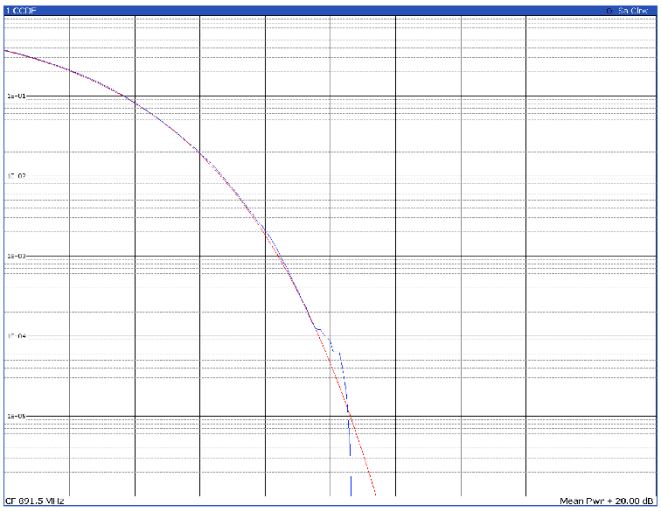
TM3p1, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.73 dBm	31.31 dBm	10.57 dB	3.56 dB	6.72 dB	8.42 dB	9.66 dB

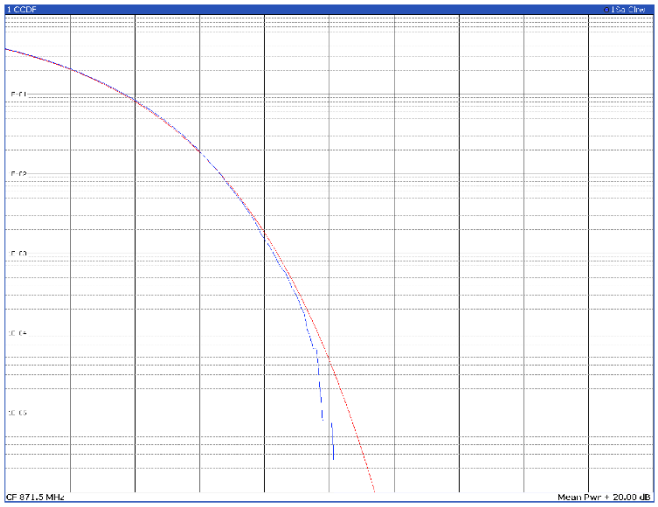
TM3p1, 5 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.48 dBm	31.06 dBm	10.58 dB	3.65 dB	6.63 dB	8.45 dB	9.84 dB

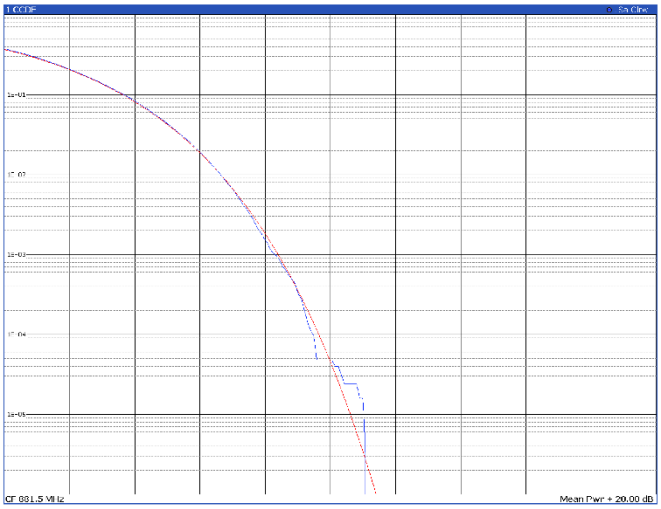
TM3p1a, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.75 dBm	30.83 dBm	10.08 dB	3.58 dB	6.62 dB	8.28 dB	9.36 dB

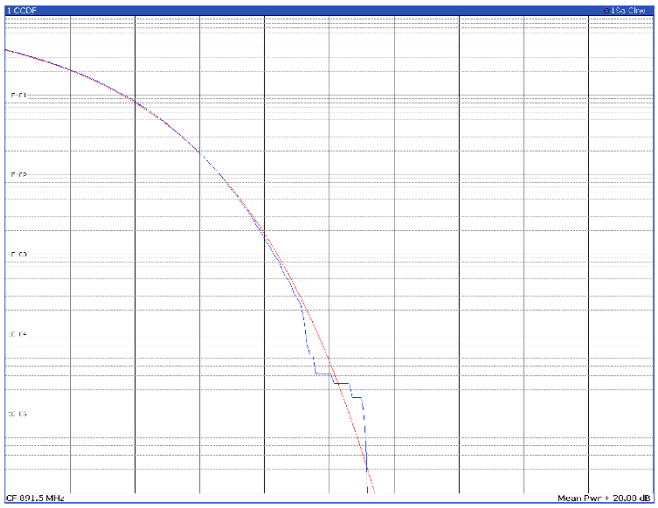
TM3p1a, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.93 dBm	31.94 dBm	11.02 dB	3.65 dB	6.64 dB	8.32 dB	9.45 dB

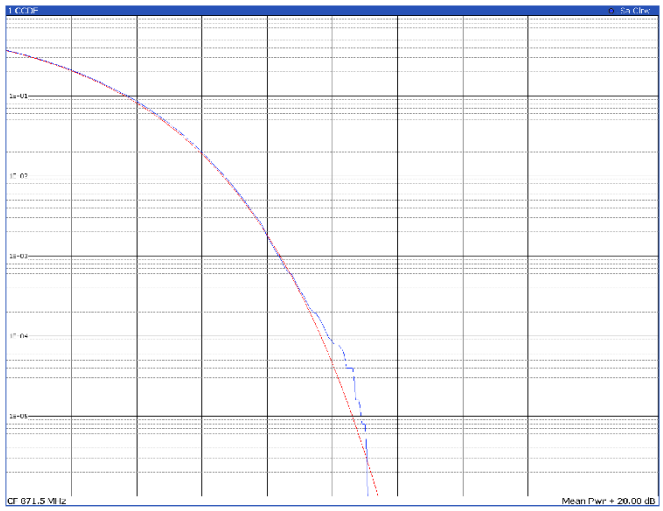
TM3p1a, 5 MHz, high channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.43 dBm	31.46 dBm	11.03 dB	3.58 dB	6.64 dB	8.28 dB	9.26 dB

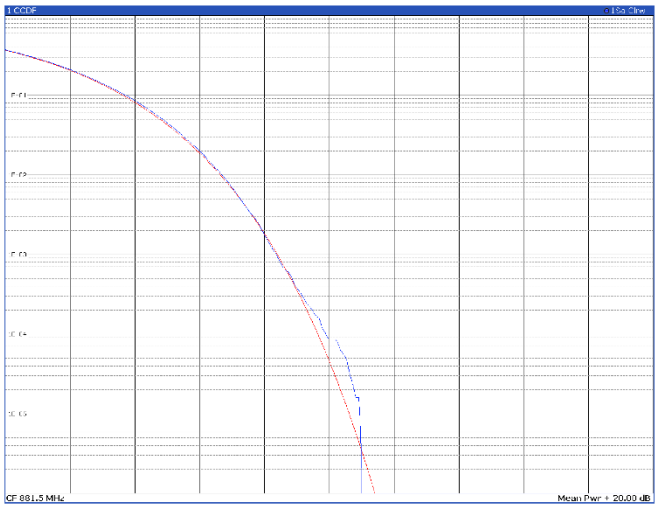
TM3p3, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.76 dBm	31.77 dBm	11.01 dB	3.73 dB	6.72 dB	8.36 dB	9.86 dB

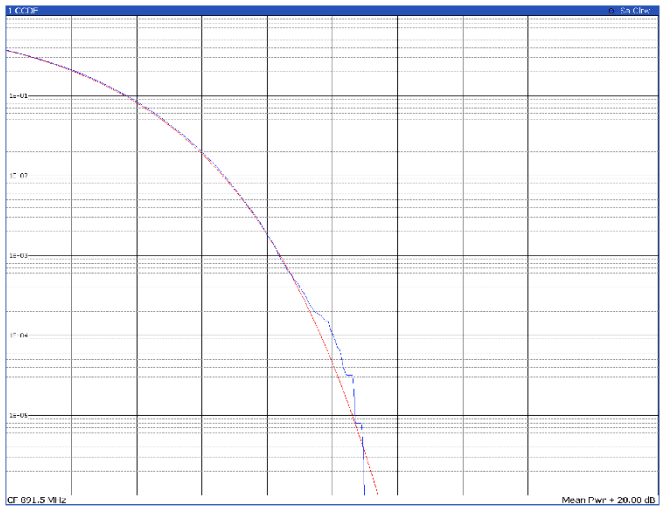
TM3p3, 5 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.92 dBm	31.85 dBm	10.93 dB	3.72 dB	6.72 dB	8.36 dB	9.90 dB

TM3p3, 5 MHz, high channel

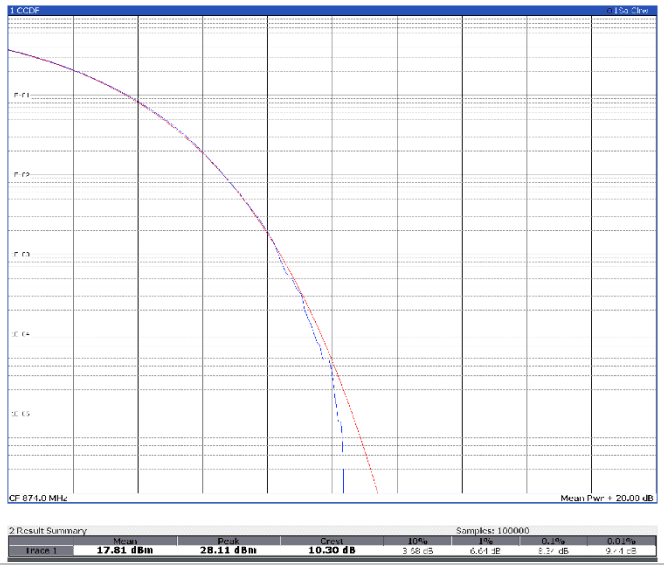


2 Result Summary — Samples: 100000

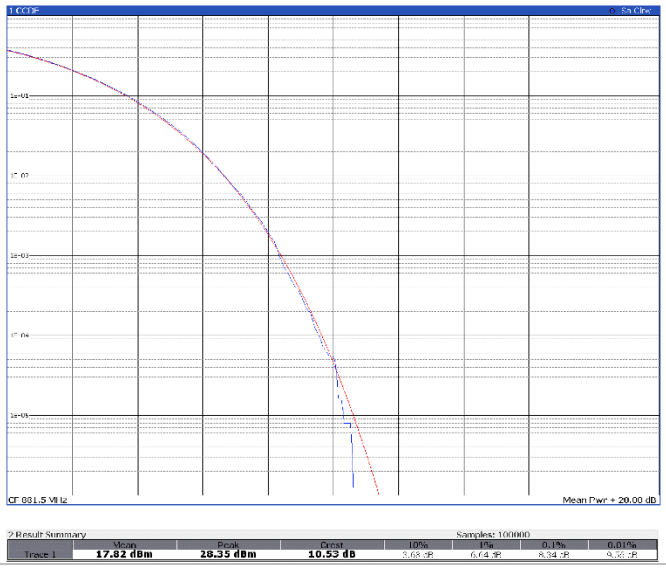
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.61 dBm	31.53 dBm	10.91 dB	3.68 dB	6.68 dB	8.36 dB	10.02 dB

Band B5 | **10 MHz**

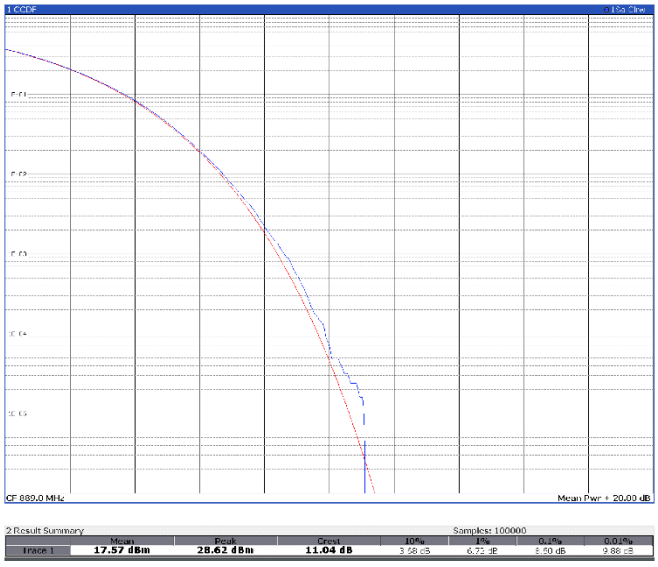
TM1.1, 10 MHz, low channel



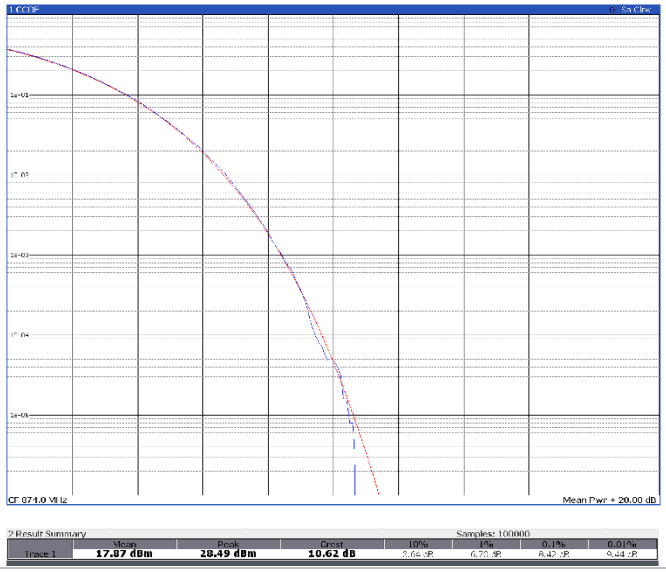
TM1.1, 10 MHz, mid channel



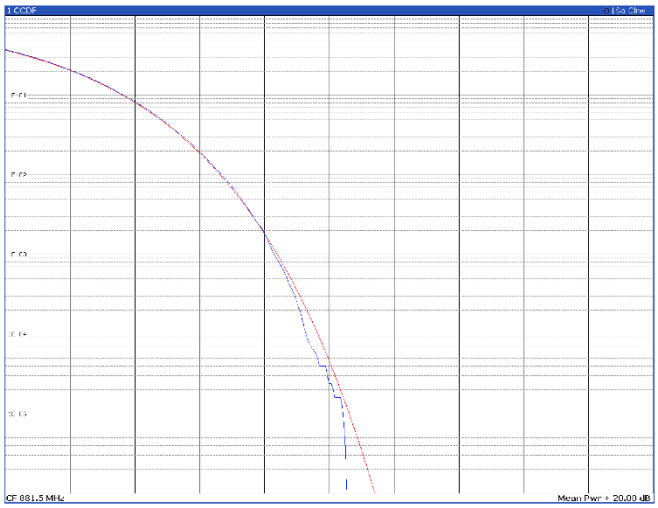
TM1.1, 10 MHz, high channel



TM3p1, 10 MHz, low channel



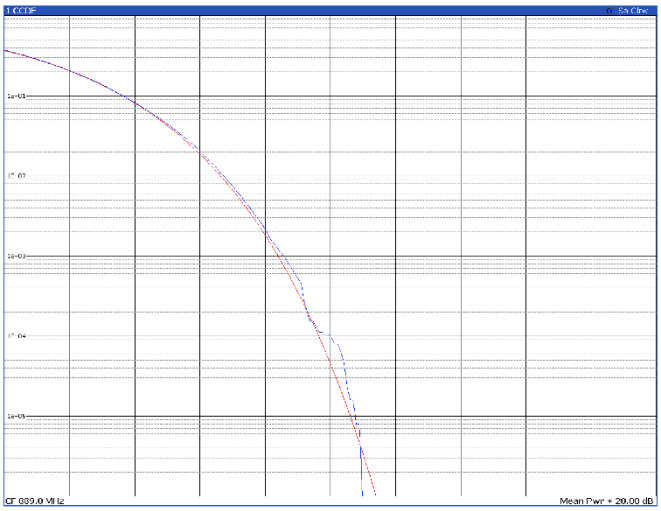
TM3p1, 10 MHz, mid channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.80 dBm	28.28 dBm	10.48 dB	3.56 dB	6.05 dB	8.30 dB	9.28 dB

TM3p1, 10 MHz, high channel



2 Result Summary — Samples: 100000

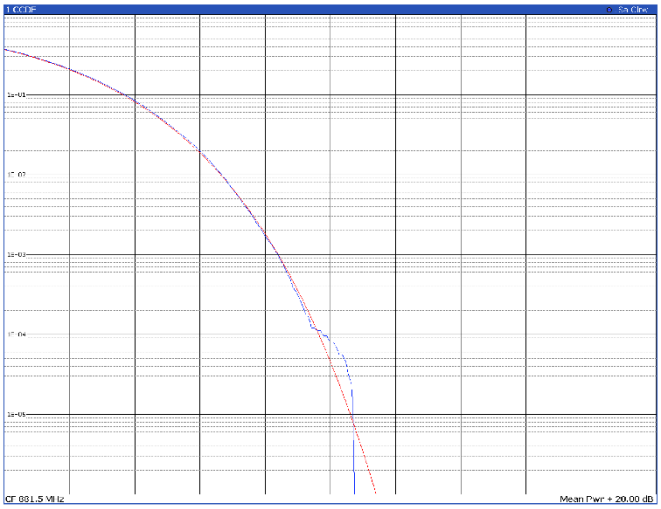
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.62 dBm	28.48 dBm	10.86 dB	3.64 dB	6.72 dB	8.50 dB	9.48 dB

TM3p1a, 10 MHz, low channel

2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.82 dBm	28.51 dBm	10.69 dB	3.58 dB	6.06 dB	8.36 dB	9.76 dB

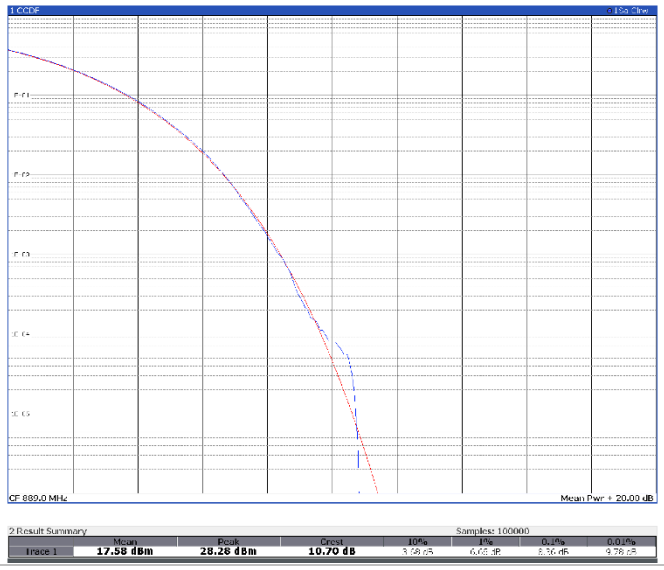
TM3p1a, 10 MHz, mid channel



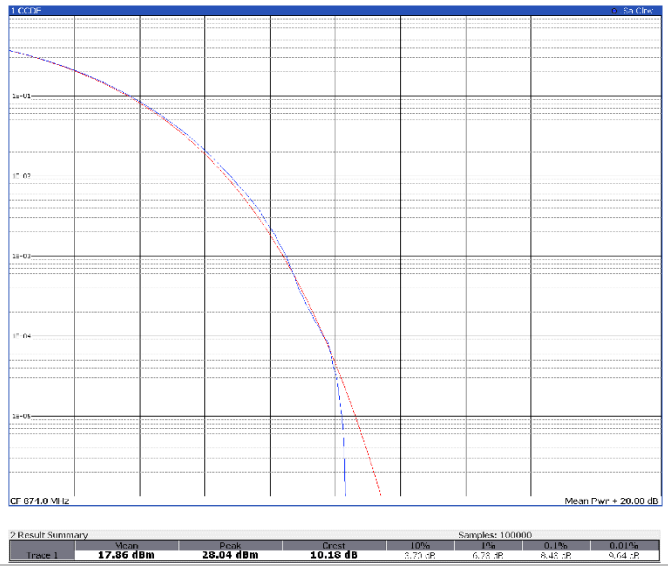
2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	17.79 dBm	28.46 dBm	10.67 dB	3.63 dB	6.66 dB	8.35 dB	9.75 dB

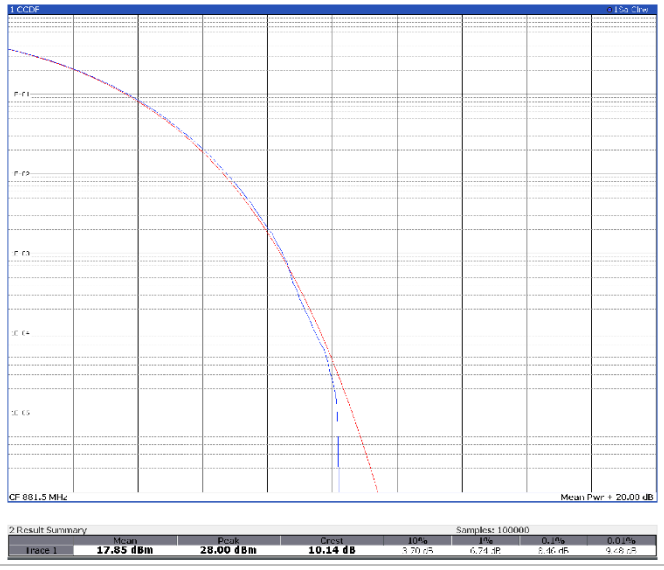
TM3p1a, 10 MHz, high channel



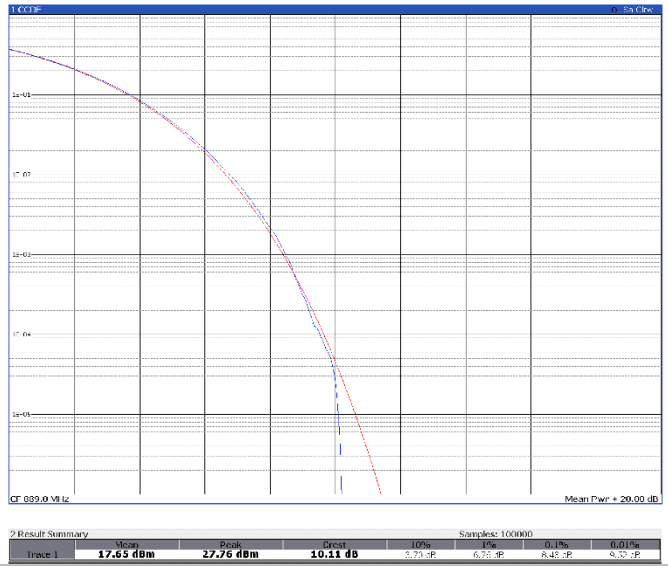
TM3p3, 10 MHz, low channel



TM3p3, 10 MHz, mid channel



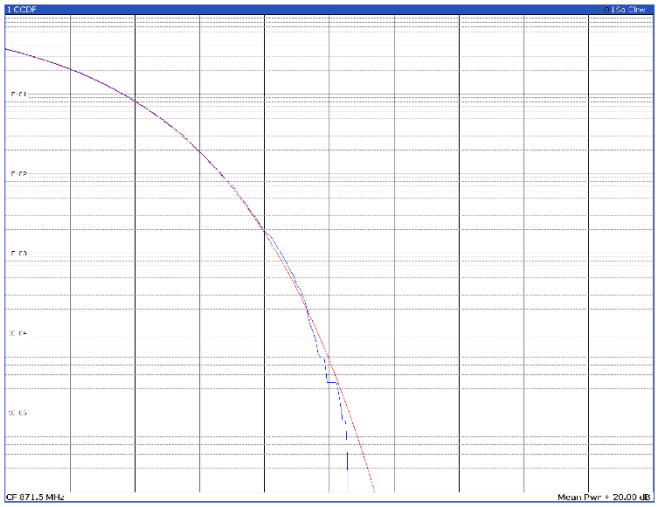
TM3p3, 10 MHz, high channel



Antenna port 2

Band B5	**5 MHz**

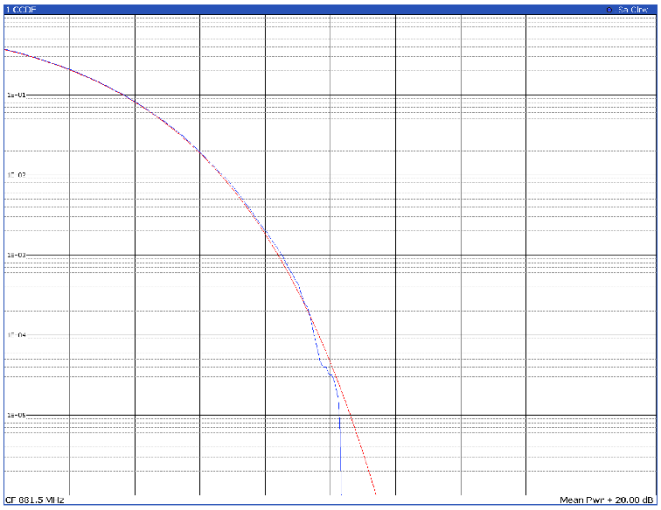
TM1.1, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.79 dBm	31.31 dBm	10.52 dB	3.54 dB	6.68 dB	8.52 dB	9.50 dB

TM1.1, 5 MHz, mid channel



2 Result Summary — Samples: 100000

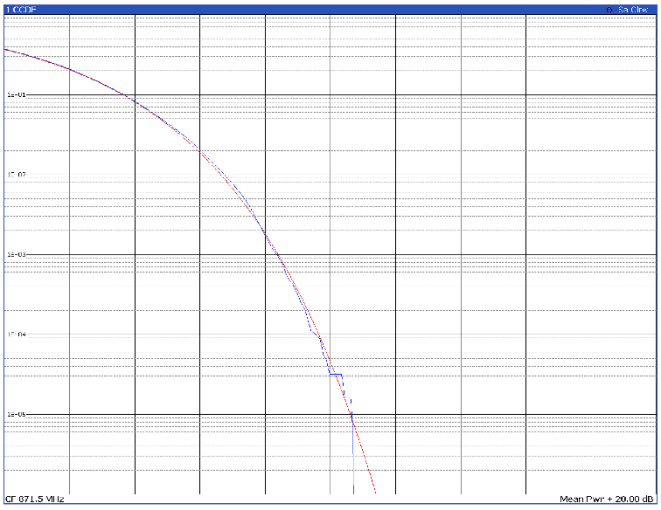
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.64 dBm	30.89 dBm	10.25 dB	3.60 dB	6.68 dB	8.52 dB	9.52 dB

TM1.1, 5 MHz, high channel

2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.43 dBm	31.27 dBm	10.84 dB	3.54 dB	6.68 dB	8.56 dB	9.74 dB

TM3p1, 5 MHz, low channel



2 Result Summary — Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.85 dBm	31.48 dBm	10.62 dB	3.66 dB	6.74 dB	8.54 dB	9.54 dB