

RADIO TEST REPORT

REP054742

Date of issue: September 23, 2024

Applicant:

**Andrew Wireless Systems Industriering 10, Buchdorf 86675
Germany**

Product:

RPM-A61L1-77C

Model:

7847601-00

Specifications:

◆ **FCC 47 CFR Part 27**

Miscellaneous Wireless Communications Services

Lab and test locations

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

Tested by	Daniele Guarnone
Reviewed by	Oscar Frau
Reviewer signature	
Review date	September 23, 2024

Limits of responsibility

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

Copyright notification

Nemko Spa authorizes the applicant to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko Spa accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Table of contents

Table of contents	3
Section 1. Report summary	4
1.1 Applicant and manufacturer	4
1.2 Test specifications	4
1.3 Statement of compliance	4
1.4 Exclusions	4
1.5 Test report revision history	4
Section 2. Summary of test results	5
2.1 FCC Part 27 test results	5
Section 3. Equipment under test (EUT) details	6
3.1 Sample information	6
3.2 EUT information	6
3.3 Technical information	6
3.4 Product description and theory of operation	6
3.5 EUT exercise details	6
3.6 EUT setup diagram	7
Section 4. Engineering considerations	8
4.1 Modifications incorporated in the EUT	8
4.2 Technical judgment	8
4.3 Deviations from laboratory tests procedures	8
Section 5. Test conditions	9
5.1 Atmospheric conditions	9
5.2 Power supply range	9
Section 6. Measurement uncertainty	10
6.1 Uncertainty of measurement	10
Section 7. Test equipment	11
7.1 Test equipment list	11
Section 8. Testing data	12
8.1 FCC §2.1033(c)(4) Modulation type	12
8.2 FCC §2.1049(h) 99% Occupied Bandwidth and frequency ranges	13
8.3 FCC §27.53 (h)(3) 26 dB Occupied Bandwidth	48
8.4 FCC 27.50(j)(2) Output power	83
8.5 FCC 27.50(B) Peak to Average Power Ratio	116
8.6 FCC 27.53(l)(1) Emission Limits	151
8.7 FCC 27.54 Frequency Stability	242
Section 9. Block diagrams of test setups	243
9.1 Radiated emissions set-up	243

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 27	Miscellaneous Wireless Communications Services
ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio 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
REP054742	Original report issued

Section 2. Summary of test results

2.1 FCC Part 27 test results

Part	Test description	Verdict
§2.1033(c)(4)	Modulation type	Pass
§2.1049(h)	99% Occupied bandwidth	Pass
§27.53(h)(3)	Frequency ranges	Pass
§27.50(j)(2)	Output power at RF antenna connector	Pass
§27.50(B)	Peak to average power ratio	Pass
§27.53(l)(1)	Conducted spurious emissions	Pass
§27.53(l)(1)	Radiated spurious emissions	Pass
§27.53(h)(3)	26 dB Occupied bandwidth	Pass
§27.54	Frequency stability	Pass

Note: None.

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	August 9, 2024
Nemko sample ID number	PRJ00630770003

3.2 EUT information

Product name	RPM-A61L1-77C
Model	7847601-00
Part Number	7847601-00
Serial number	SZRMBP24170014

3.3 Technical information

Frequency band	3700-3980 MHz
RF power Max (W), Conducted	max Port 1 = 23.4 dBm (0.22 W) – max Port 2 = 25.8 dBm (0.38 W); max comb. Port 1 + Port 2 = 27.7 dBm (0.6 W) @ 3739.995 MHz (with 80 MHz bandwidth)
Supported bandwidths:	20, 40, 60, 80, 100 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	4.3 dBi

3.4 Product description and theory of operation

The radio unit (RU) is one of the components to configure the 5G 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

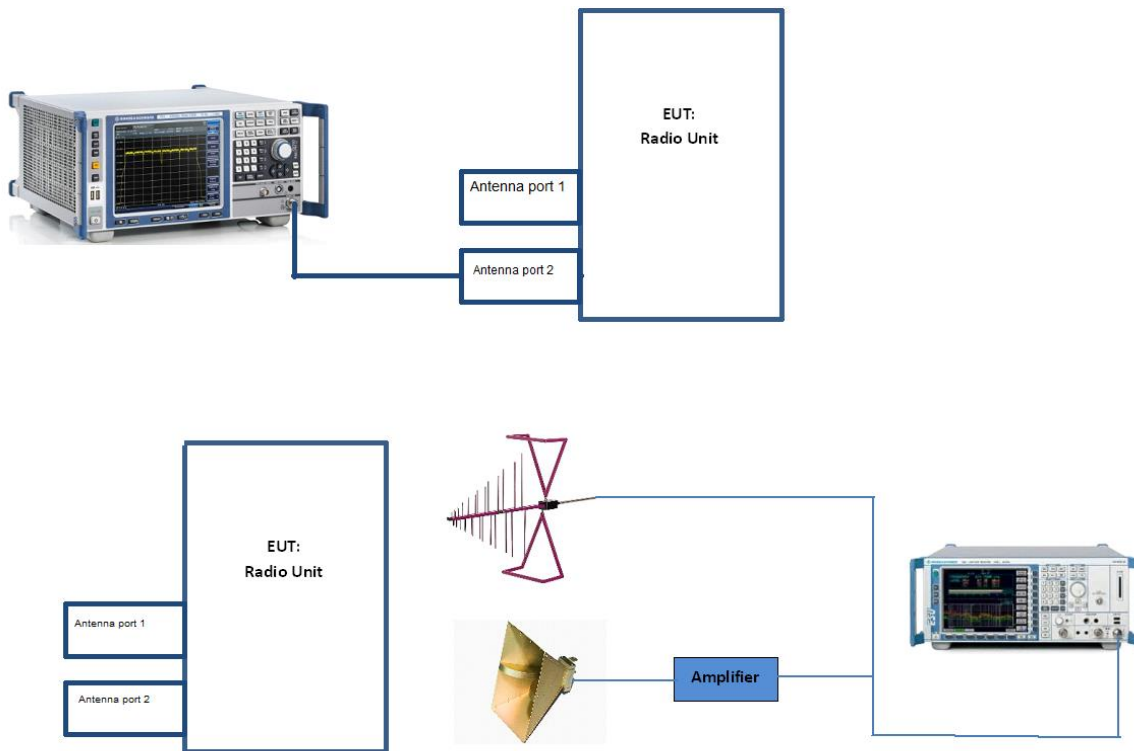


Figure 3.6-1: Setup diagram

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	15–30 °C
Relative humidity	20–75 %
Air pressure	860–1060 mbar

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

The following instruments are used to monitor the environmental conditions:

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

5.2 Power supply range

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

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

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

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

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

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

Hereafter Nemko's measurement uncertainties are reported:

EUT	Type	Test	Range	Measurement Uncertainty	Notes
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)
		Carrier power RF Output Power	0.009 MHz ÷ 30 MHz	1.1 dB	(1)
			30 MHz ÷ 18 GHz	1.5 dB	(1)
			18 MHz ÷ 40 GHz	3.0 dB	(1)
			40 MHz ÷ 140 GHz	5.0 dB	(1)
		Adjacent channel power	1 MHz ÷ 18 GHz	1.4 dB	(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	2023-10	2024-10
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	August 13, 2024	Temperature	22 °C
Test engineer	D. Guarnone	Air pressure	1001 mbar
Verdict	Pass	Relative humidity	62 %

8.1.3 Observations, settings and special notes

None

8.1.4 Test data

Band n77:

Bandwidth (MHz)	Emission type
20	TM1.1
20	TM3p1
20	TM3p1a
20	TM3p3
40	TM1.1
40	TM3p1
40	TM3p1a
40	TM3p3
60	TM1.1
60	TM3p1
60	TM3p1a
60	TM3p3
80	TM1.1
80	TM3p1
80	TM3p1a
80	TM3p3
100	TM1.1
100	TM3p1
100	TM3p1a
100	TM3p3

Table 8.1-1: 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	August 19, 2024	Temperature	22 °C
Test end date	September 19, 2024	Air pressure	1001 mbar
Test engineer	D. Guarnone	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 n77: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM1.1	3709.995	18.26
N77	20 MHz	TM1.1	3840.000	18.27
N77	20 MHz	TM1.1	3970.000	18.24
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM3p1	3709.995	18.25
N77	20 MHz	TM3p1	3840.000	18.26
N77	20 MHz	TM3p1	3970.000	18.23
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM3p1a	3709.995	18.28
N77	20 MHz	TM3p1a	3840.000	18.28
N77	20 MHz	TM3p1a	3970.000	18.26
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM3p3	3709.995	18.34
N77	20 MHz	TM3p3	3840.000	18.34
N77	20 MHz	TM3p3	3970.000	18.33
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM1.1	3720.0	37.92
N77	40 MHz	TM1.1	3840.0	37.91
N77	40 MHz	TM1.1	3960.0	37.90
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM3p1	3720.0	37.93
N77	40 MHz	TM3p1	3840.0	37.94
N77	40 MHz	TM3p1	3960.0	37.93
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM3p1a	3720.0	37.91
N77	40 MHz	TM3p1a	3840.0	37.92
N77	40 MHz	TM3p1a	3960.0	37.88
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM3p3	3720.0	37.98
N77	40 MHz	TM3p3	3840.0	38.03
N77	40 MHz	TM3p3	3960.0	38.01
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM1.1	3729.990	58.10
N77	60 MHz	TM1.1	3840.000	58.12
N77	60 MHz	TM1.1	3949.995	58.03
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM3p1	3729.990	58.05
N77	60 MHz	TM3p1	3840.000	58.10
N77	60 MHz	TM3p1	3949.995	58.03

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM3p1a	3729.990	57.95
N77	60 MHz	TM3p1a	3840.000	58.01
N77	60 MHz	TM3p1a	3949.995	57.91
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM3p3	3729.990	58.19
N77	60 MHz	TM3p3	3840.000	58.26
N77	60 MHz	TM3p3	3949.995	58.15
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM1.1	3739.995	77.77
N77	80 MHz	TM1.1	3840.000	77.86
N77	80 MHz	TM1.1	3939.990	77.57
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM3p1	3739.995	77.71
N77	80 MHz	TM3p1	3840.000	77.74
N77	80 MHz	TM3p1	3939.990	77.65
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM3p1a	3739.995	77.49
N77	80 MHz	TM3p1a	3840.000	77.60
N77	80 MHz	TM3p1a	3939.990	77.66
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM3p3	3739.995	77.86
N77	80 MHz	TM3p3	3840.000	78.04
N77	80 MHz	TM3p3	3939.99	77.88
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM1.1	3750.0	97.44
N77	100 MHz	TM1.1	3840.0	97.62
N77	100 MHz	TM1.1	3930.0	97.60
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM3p1	3750.0	97.43
N77	100 MHz	TM3p1	3840.0	97.57
N77	100 MHz	TM3p1	3930.0	97.44
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM3p1a	3750.0	97.58
N77	100 MHz	TM3p1a	3840.0	97.59
N77	100 MHz	TM3p1a	3930.0	97.56
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM3p3	3750.0	97.52
N77	100 MHz	TM3p3	3840.0	97.65
N77	100 MHz	TM3p3	3930.0	97.52

Band n77: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM1.1	3709.995	18.25
N77	20 MHz	TM1.1	3840.000	18.26
N77	20 MHz	TM1.1	3970.000	18.26
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM3p1	3709.995	18.25
N77	20 MHz	TM3p1	3840.000	18.26
N77	20 MHz	TM3p1	3970.000	18.24
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM3p1a	3709.995	18.28
N77	20 MHz	TM3p1a	3840.000	18.29
N77	20 MHz	TM3p1a	3970.000	18.28
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	20 MHz	TM3p3	3709.995	18.33
N77	20 MHz	TM3p3	3840.000	18.33
N77	20 MHz	TM3p3	3970.000	18.32
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM1.1	3720.0	37.87
N77	40 MHz	TM1.1	3840.0	37.90
N77	40 MHz	TM1.1	3960.0	37.88
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM3p1	3720.0	37.97
N77	40 MHz	TM3p1	3840.0	37.95
N77	40 MHz	TM3p1	3960.0	37.87
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM3p1a	3720.0	37.90
N77	40 MHz	TM3p1a	3840.0	37.93
N77	40 MHz	TM3p1a	3960.0	37.90
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	40 MHz	TM3p3	3720.0	37.96
N77	40 MHz	TM3p3	3840.0	38.05
N77	40 MHz	TM3p3	3960.0	38.02
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM1.1	3729.990	58.11
N77	60 MHz	TM1.1	3840.000	58.10
N77	60 MHz	TM1.1	3949.995	58.06
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM3p1	3729.990	58.04
N77	60 MHz	TM3p1	3840.000	58.10
N77	60 MHz	TM3p1	3949.995	58.02
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM3p1a	3729.990	57.96
N77	60 MHz	TM3p1a	3840.000	57.98
N77	60 MHz	TM3p1a	3949.995	57.91

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	60 MHz	TM3p3	3729.990	58.16
N77	60 MHz	TM3p3	3840.000	58.24
N77	60 MHz	TM3p3	3949.995	58.17

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM1.1	3739.995	77.76
N77	80 MHz	TM1.1	3840.000	77.84
N77	80 MHz	TM1.1	3939.990	77.78

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM3p1	3739.995	77.65
N77	80 MHz	TM3p1	3840.000	77.85
N77	80 MHz	TM3p1	3939.99	77.67

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM3p1a	3739.995	77.77
N77	80 MHz	TM3p1a	3840.000	77.78
N77	80 MHz	TM3p1a	3939.990	77.53

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	80 MHz	TM3p3	3739.995	77.84
N77	80 MHz	TM3p3	3840.000	78.05
N77	80 MHz	TM3p3	3939.990	78.05

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM1.1	3750.0	97.47
N77	100 MHz	TM1.1	3840.0	97.62
N77	100 MHz	TM1.1	3930.0	97.51

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM3p1	3750.0	97.43
N77	100 MHz	TM3p1	3840.0	97.53
N77	100 MHz	TM3p1	3930.0	97.38

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM3p1a	3750.0	97.58
N77	100 MHz	TM3p1a	3840.0	97.72
N77	100 MHz	TM3p1a	3930.0	97.55

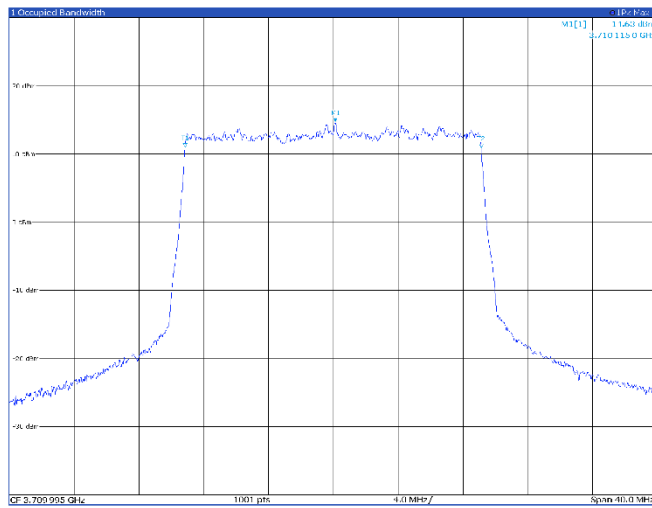
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
N77	100 MHz	TM3p3	3750.0	97.54
N77	100 MHz	TM3p3	3840.0	97.63
N77	100 MHz	TM3p3	3930.0	97.36

Antenna port 1

Band n77 - 99% Occupied Bandwidth Antenna port 1

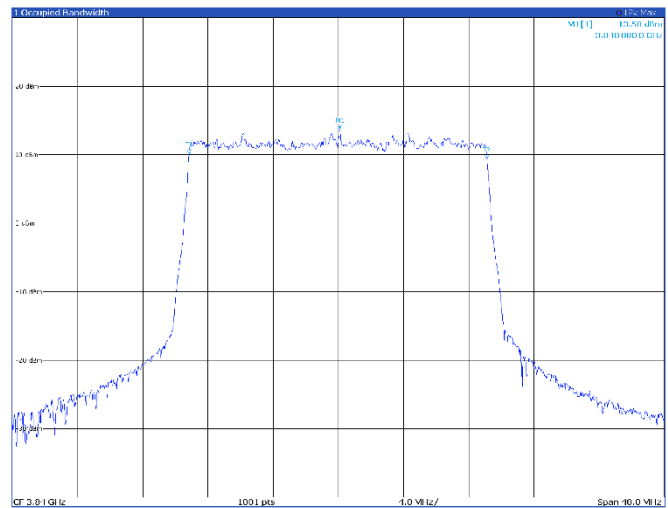
20 MHz

TM1.1, 20 MHz, low channel



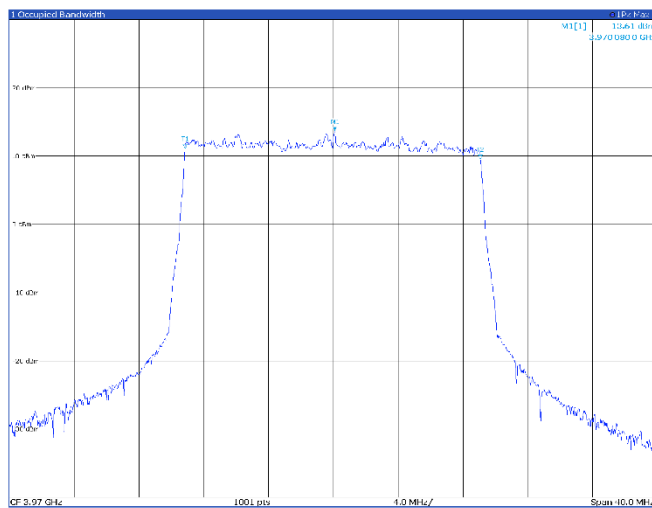
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.710115 GHz	14.63 dBm	Occ Sw	18.262953565 MHz
T1	1		3.710115 GHz	14.63 dBm	Occ Sw	18.262953565 MHz
T2	1		3.710115 GHz	14.63 dBm	Occ Sw	18.262953565 MHz

TM1.1, 20 MHz, mid channel



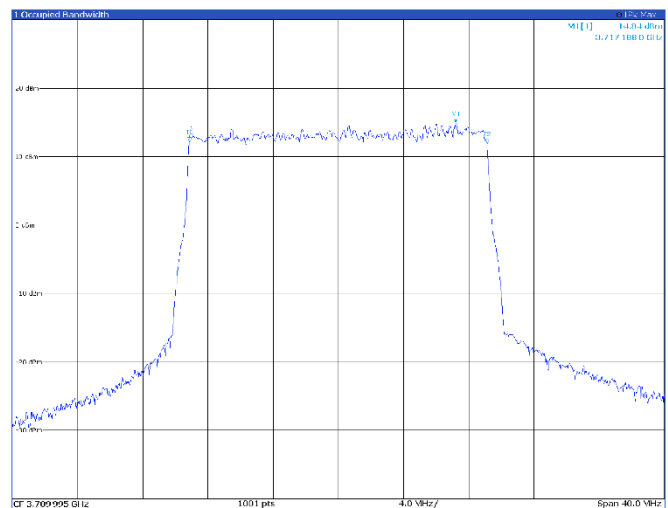
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.84008 GHz	13.58 dBm	Occ Sw	18.266920046 MHz
T1	1		3.84008 GHz	13.58 dBm	Occ Sw	18.266920046 MHz
T2	1		3.84008 GHz	13.58 dBm	Occ Sw	18.266920046 MHz

TM1.1, 20 MHz, high channel



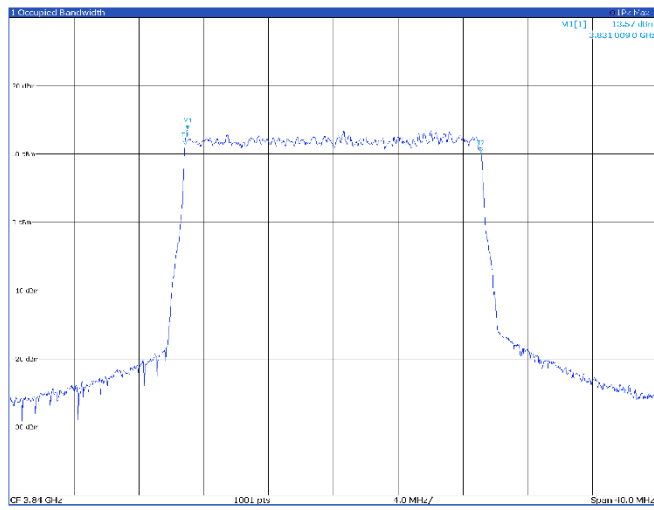
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.97008 GHz	13.61 dBm	Occ Sw	18.244557139 MHz
T1	1		3.97008 GHz	13.61 dBm	Occ Sw	18.244557139 MHz
T2	1		3.97008 GHz	13.61 dBm	Occ Sw	18.244557139 MHz

TM3p1, 20 MHz, low channel



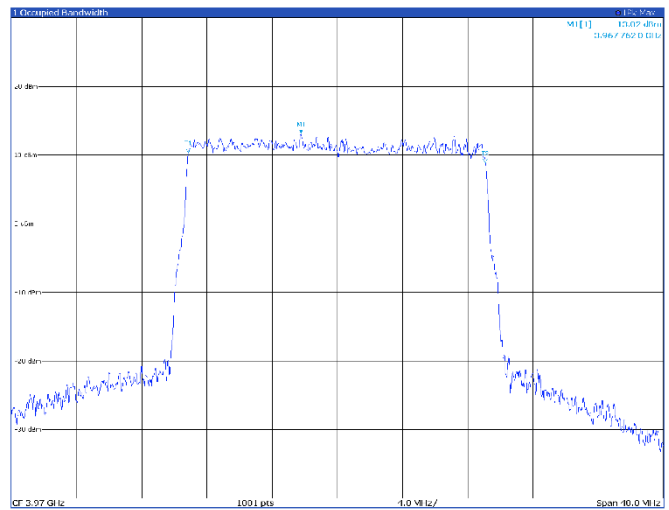
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.717188 GHz	14.84 dBm	Occ Sw	18.252597498 MHz
T1	1		3.717188 GHz	14.84 dBm	Occ Sw	18.252597498 MHz
T2	1		3.717188 GHz	14.84 dBm	Occ Sw	18.252597498 MHz

TM3p1, 20 MHz, mid channel



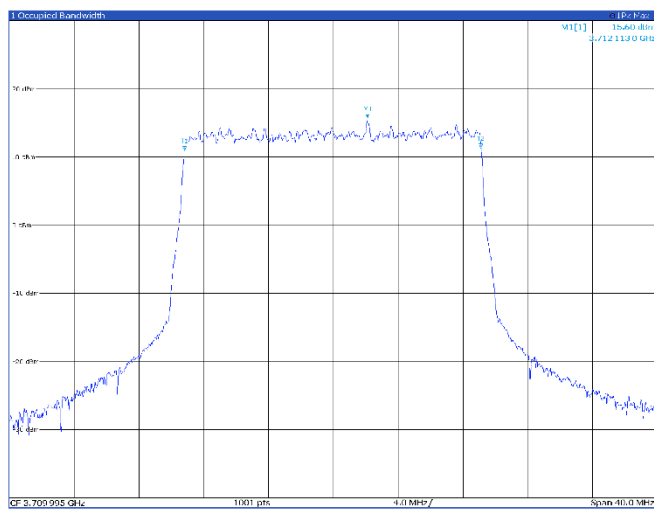
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.831009 GHz	13.57 dBm	Occ SW	18.263665 449 MHz
T1	1		3.831009 GHz	13.57 dBm	Occ SW Channel	2.6220475 GHz
T2	1		3.831009 GHz	13.57 dBm	Occ SW Channel	3.831009 GHz

TM3p1, 20 MHz, high channel



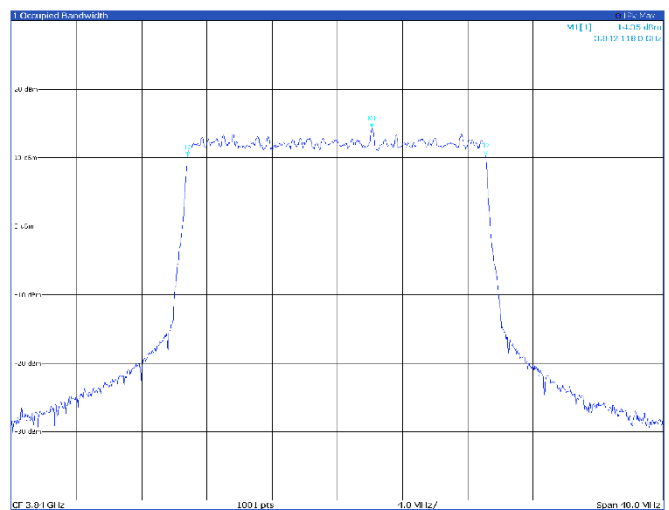
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.967762 GHz	13.02 dBm	Occ SW	18.229651 46 MHz
T1	1		3.967762 GHz	13.02 dBm	Occ SW Channel	3.967762 GHz
T2	1		3.967762 GHz	13.02 dBm	Occ SW Channel	3.967762 GHz

TM3p1a, 20 MHz, low channel



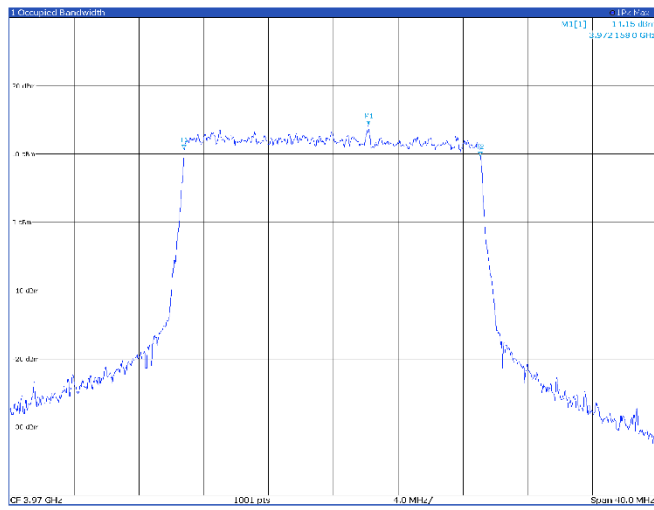
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.712113 GHz	15.60 dBm	Occ SW	18.278879 143 MHz
T1	1		3.712113 GHz	15.60 dBm	Occ SW Channel	2.7020165 GHz
T2	1		3.712113 GHz	15.60 dBm	Occ SW Channel	3.712113 GHz

TM3p1a, 20 MHz, mid channel



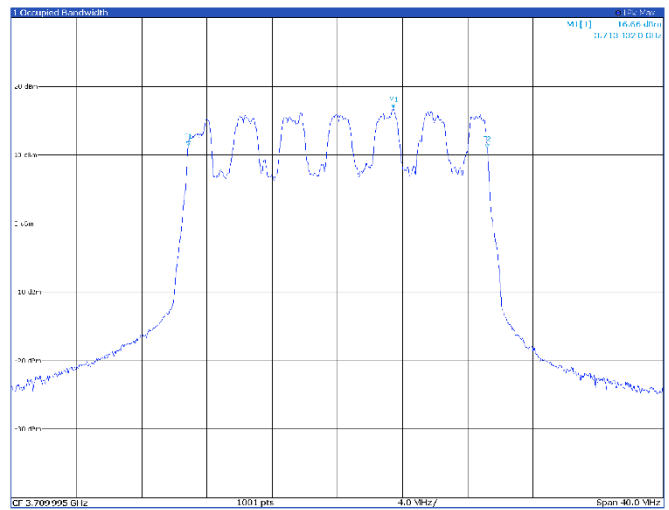
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.842118 GHz	14.35 dBm	Occ SW	18.281048 17 MHz
T1	1		3.842118 GHz	14.35 dBm	Occ SW Channel	2.822091 GHz
T2	1		3.842118 GHz	14.35 dBm	Occ SW Channel	3.842118 GHz

TM3p1a, 20 MHz, high channel



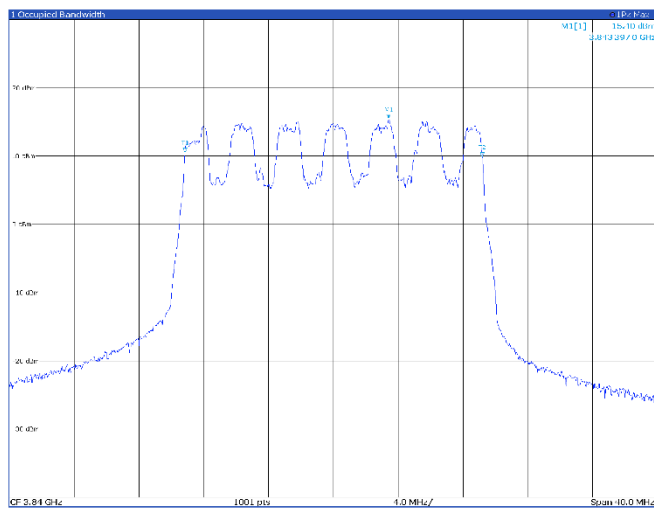
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.972158 GHz	14.15 dBm	Occ Sw	18.262671936 MHz
P1	1		3.972158 GHz	10.95 dBm	Occ Sw Control	3.972158 GHz
P1	1		3.972158 GHz	9.71 dBm	Occ Sw Control	3.972158 GHz

TM3p3, 20 MHz, low channel



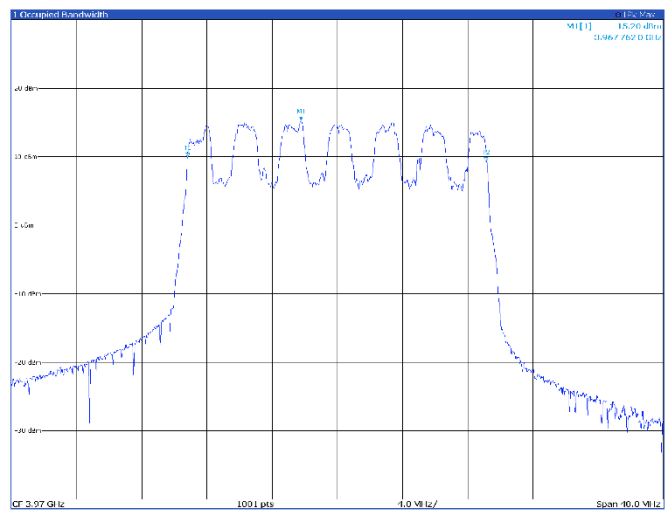
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.713432 GHz	16.66 dBm	Occ Sw	18.337363091 MHz
P1	1		3.713432 GHz	11.11 dBm	Occ Sw Control	3.713432 GHz
P1	1		3.713432 GHz	10.17 dBm	Occ Sw Control	3.713432 GHz

TM3p3, 20 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.843397 GHz	15.40 dBm	Occ Sw	18.342112459 MHz
P1	1		3.843397 GHz	10.95 dBm	Occ Sw Control	3.843397 GHz
P1	1		3.843397 GHz	9.71 dBm	Occ Sw Control	3.843397 GHz

TM3p3, 20 MHz, high channel

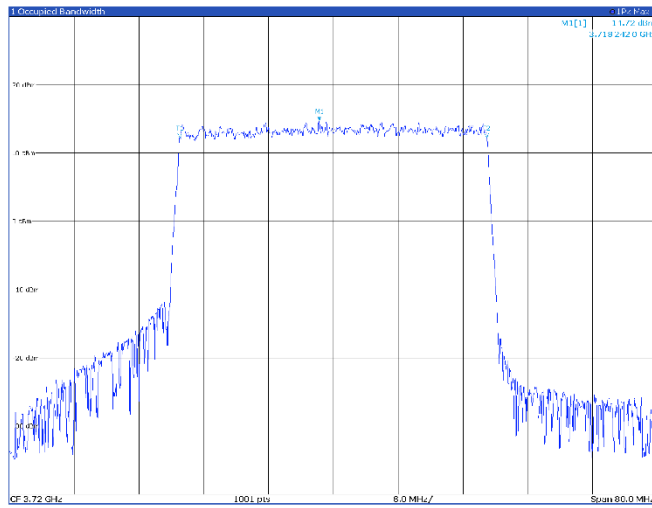


Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.967762 GHz	15.20 dBm	Occ Sw	18.325896075 MHz
P1	1		3.967762 GHz	10.95 dBm	Occ Sw Control	3.967762 GHz
P1	1		3.967762 GHz	9.71 dBm	Occ Sw Control	3.967762 GHz

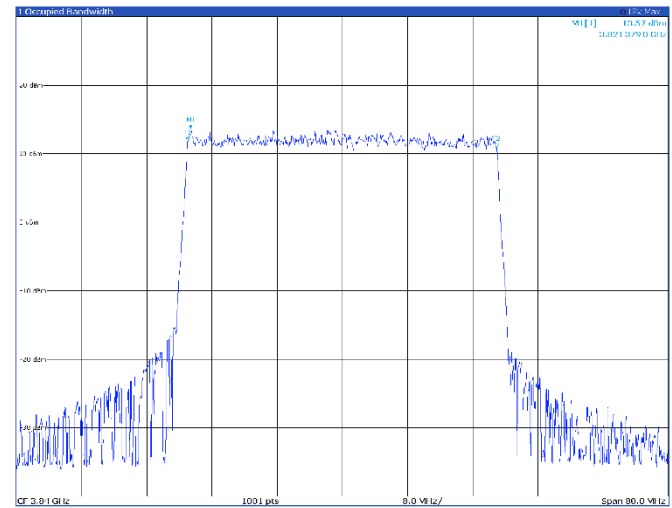
Band n77- 99% Occupied Bandwidth Antenna port 1

40 MHz

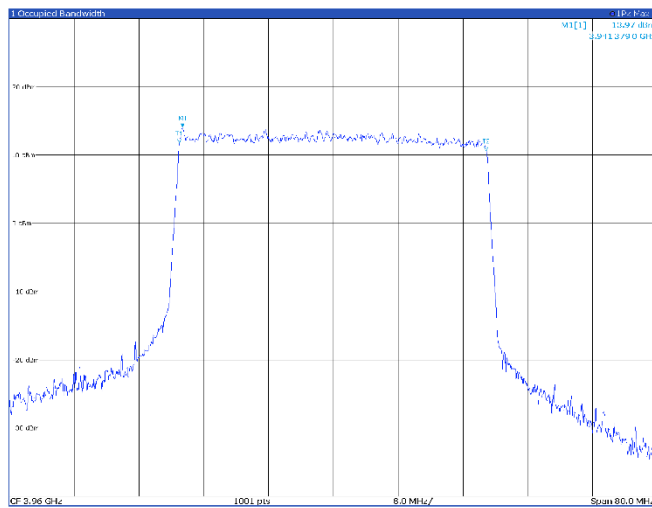
TM1.1, 40 MHz, low channel



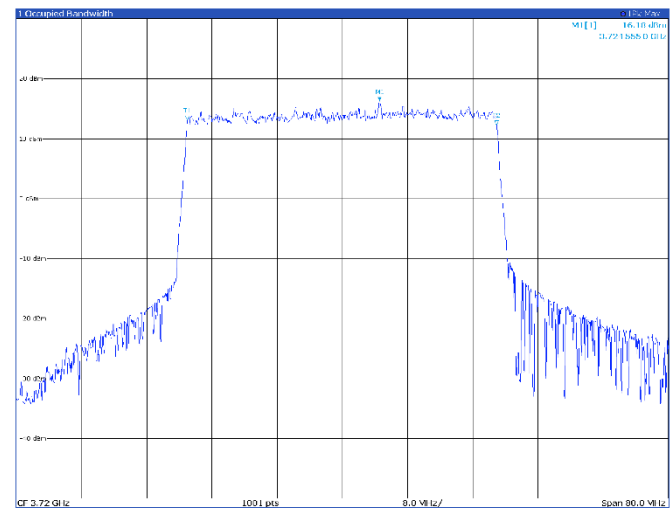
TM1.1, 40 MHz, mid channel

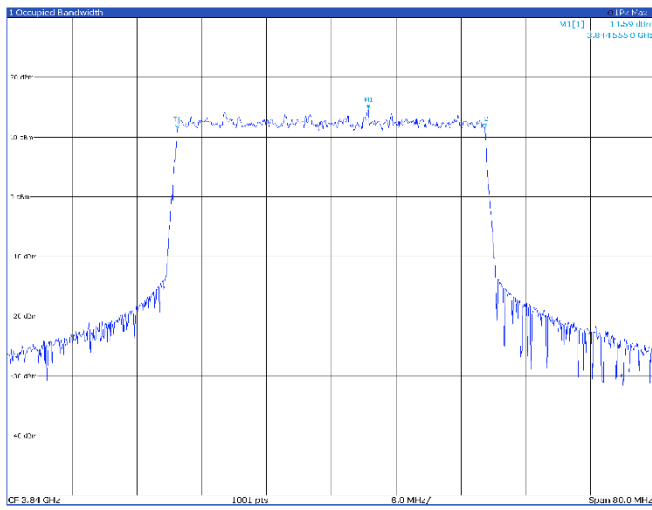


TM1.1, 40 MHz, high channel

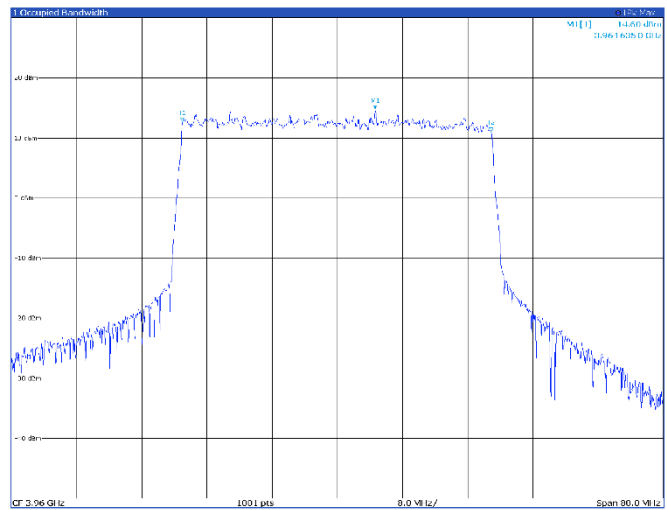


TM3p1, 40 MHz, low channel

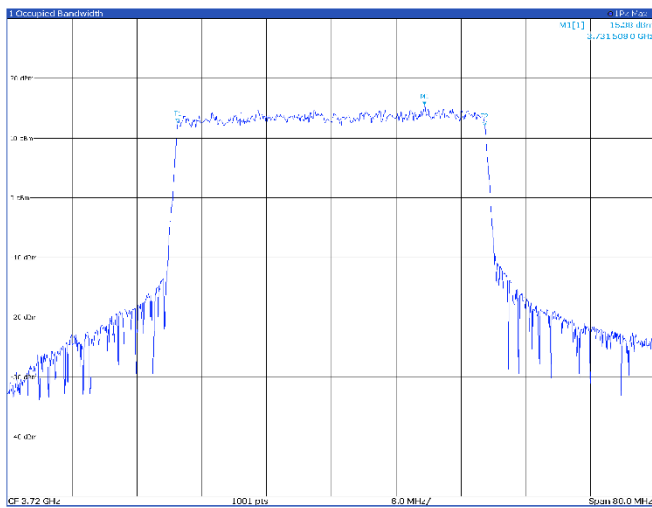


TM3p1, 40 MHz, mid channel


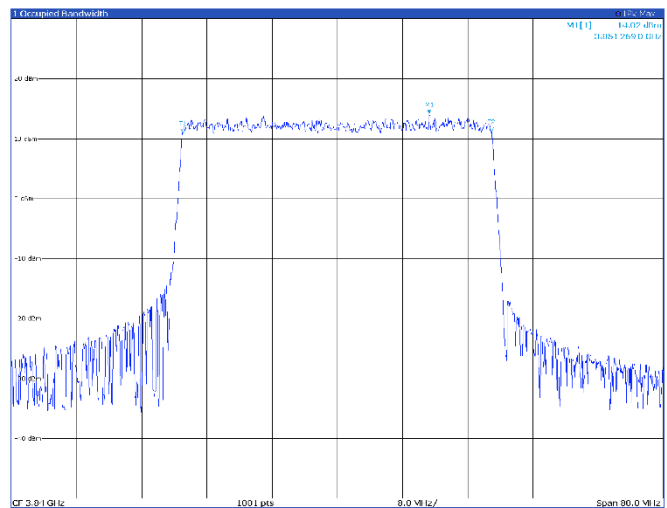
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.844 555 GHz	14.59 dBm	Occ Sw	37.944 692 16 MHz
F1	1		3.844 555 GHz	14.59 dBm	Occ Sw Channel	37.944 692 16 MHz
F2	1		3.844 555 GHz	14.59 dBm	Occ Sw Channel	37.944 692 16 MHz

TM3p1, 40 MHz, high channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.964 635 GHz	14.60 dBm	Occ Sw	37.927 811 681 MHz
F1	1		3.964 635 GHz	14.60 dBm	Occ Sw Channel	37.927 811 681 MHz
F2	1		3.964 635 GHz	14.60 dBm	Occ Sw Channel	37.927 811 681 MHz

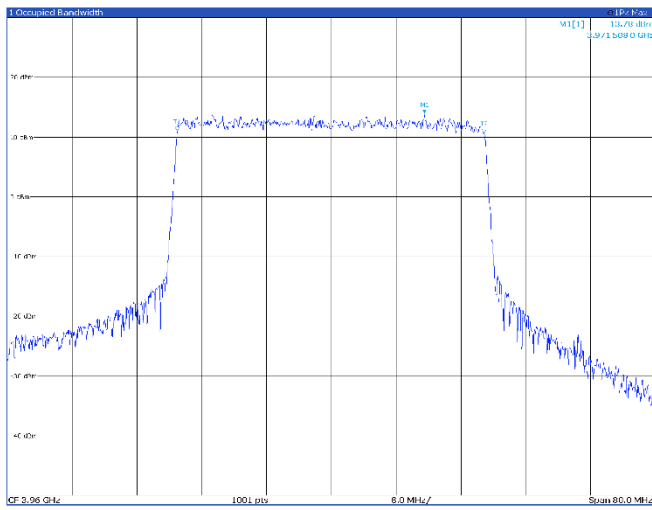
TM3p1a, 40 MHz, low channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.731 508 GHz	15.38 dBm	Occ Sw	37.912 838 47 MHz
F1	1		3.731 508 GHz	15.38 dBm	Occ Sw Channel	37.912 838 47 MHz
F2	1		3.731 508 GHz	15.38 dBm	Occ Sw Channel	37.912 838 47 MHz

TM3p1a, 40 MHz, mid channel


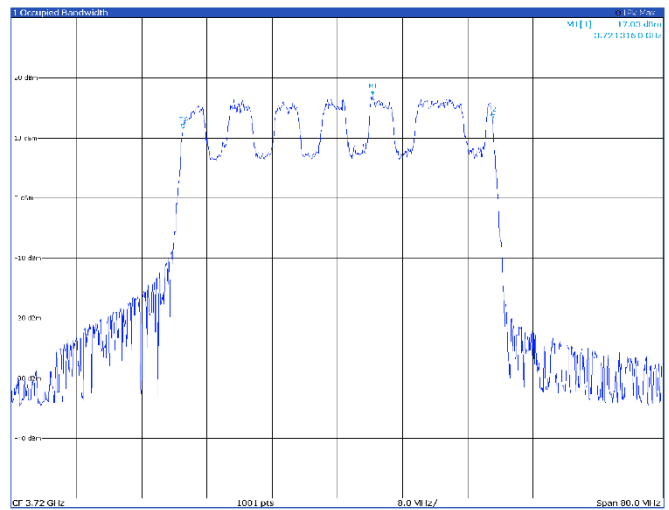
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.851 269 GHz	14.02 dBm	Occ Sw	37.919 945 611 MHz
F1	1		3.851 269 GHz	14.02 dBm	Occ Sw Channel	37.919 945 611 MHz
F2	1		3.851 269 GHz	14.02 dBm	Occ Sw Channel	37.919 945 611 MHz

TM3p1a, 40 MHz, high channel



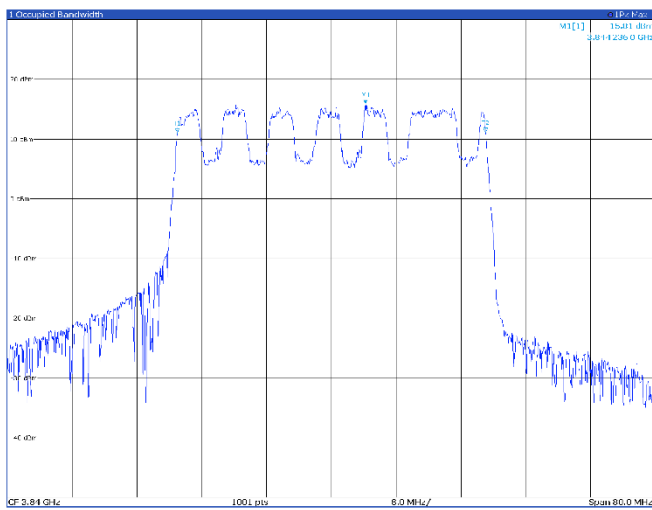
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		3.971 508 GHz	13.78 dBm		Occ Sw	37.881 775 852 MHz
P1	1		3.962 500 GHz	10.76 dBm		Occ Sw Control	3.959 701 772 GHz
P1	1		3.972 500 GHz	10.76 dBm		Occ Sw Control	3.974 260 5 GHz

TM3p3, 40 MHz, low channel



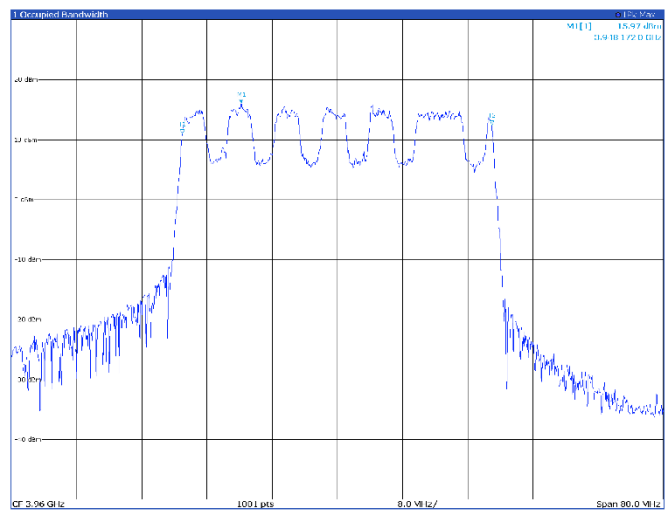
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		3.724 316 GHz	17.03 dBm		Occ Sw	37.977 170 93 MHz
P1	1		3.701 000 GHz	11.12 dBm		Occ Sw Control	3.720 137 203 GHz
P1	1		3.727 000 GHz	11.12 dBm		Occ Sw Control	3.726 014 06 GHz

TM3p3, 40 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		3.844 236 GHz	15.81 dBm		Occ Sw	38.033 432 656 MHz
P1	1		3.822 500 GHz	11.14 dBm		Occ Sw Control	3.822 500 GHz
P1	1		3.846 000 GHz	11.14 dBm		Occ Sw Control	3.846 000 GHz

TM3p3, 40 MHz, high channel

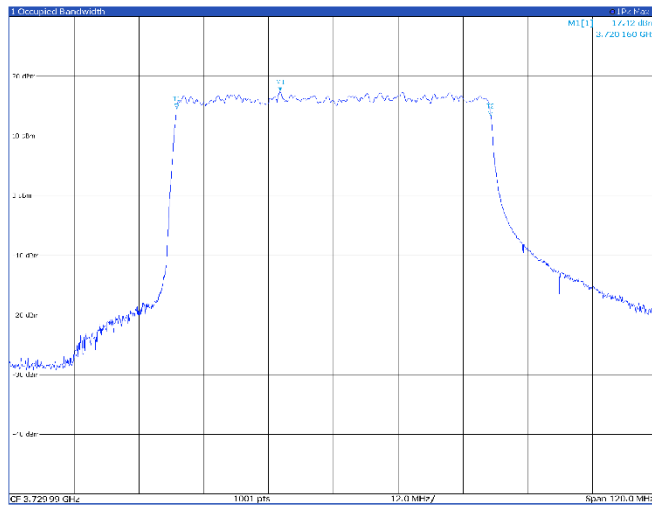


Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
P1	1		3.948 172 GHz	15.97 dBm		Occ Sw	38.010 681 056 MHz
P1	1		3.915 000 GHz	10.02 dBm		Occ Sw Control	3.959 973 22 GHz
P1	1		3.980 000 GHz	10.02 dBm		Occ Sw Control	3.980 000 GHz

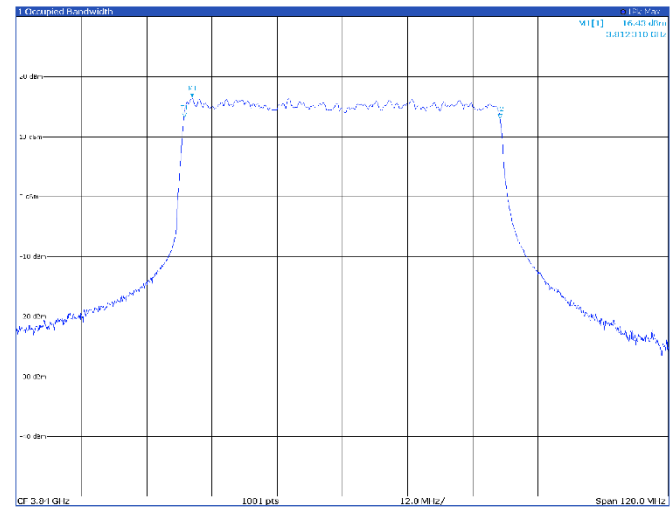
Band n77- 99% Occupied Bandwidth Antenna port 1

60 MHz

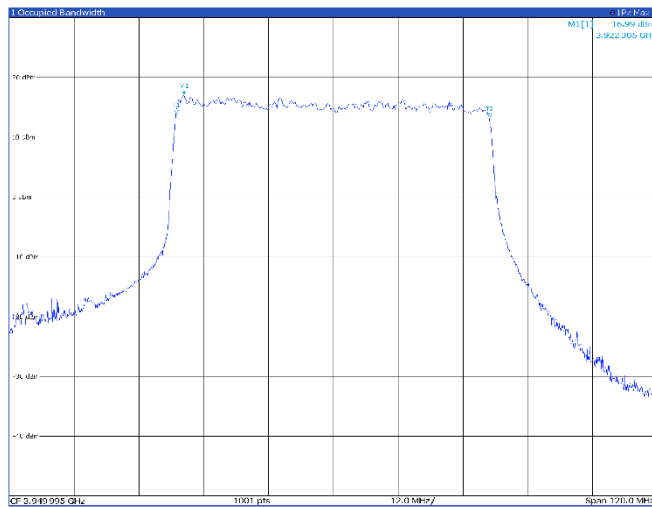
TM1.1, 60 MHz, low channel



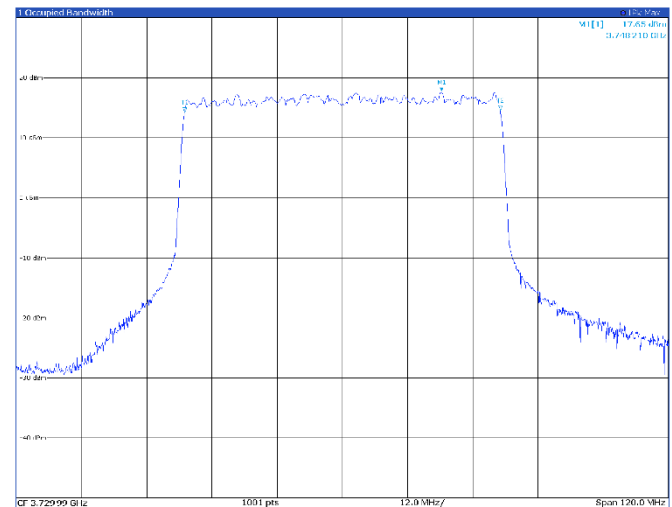
TM1.1, 60 MHz, mid channel



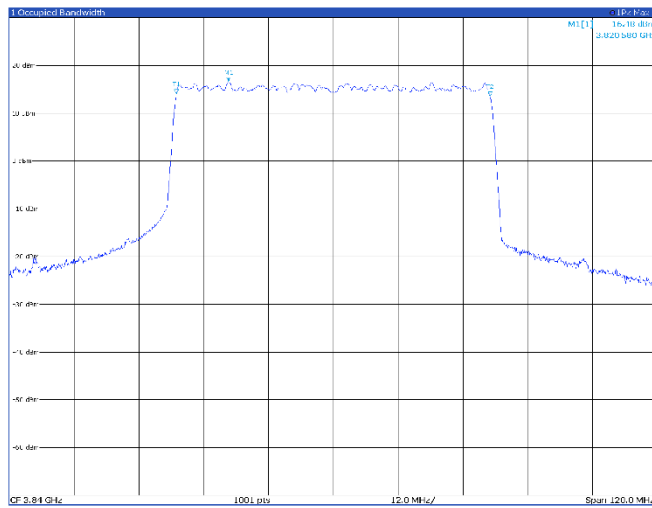
TM1.1, 60 MHz, high channel



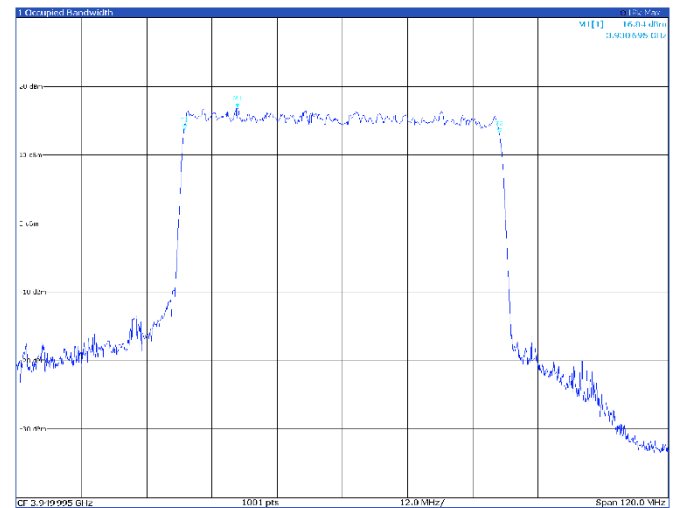
TM3p1, 60 MHz, low channel



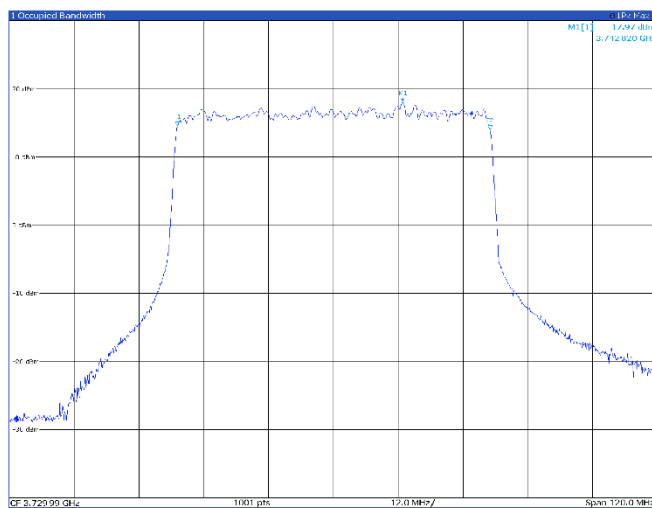
TM3p1, 60 MHz, mid channel



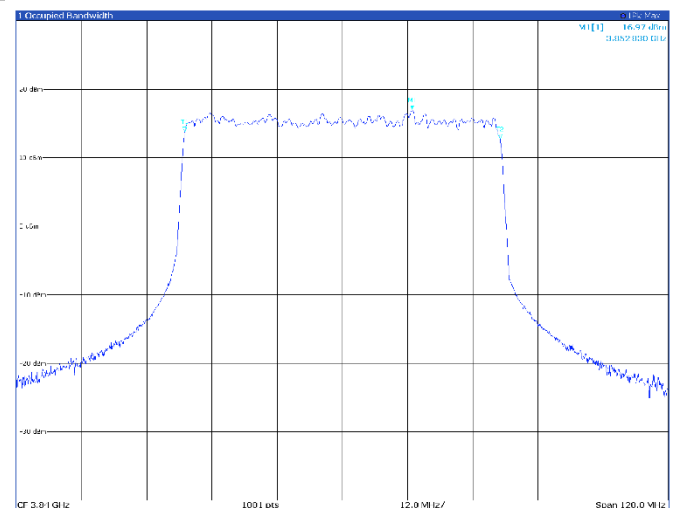
TM3p1, 60 MHz, high channel



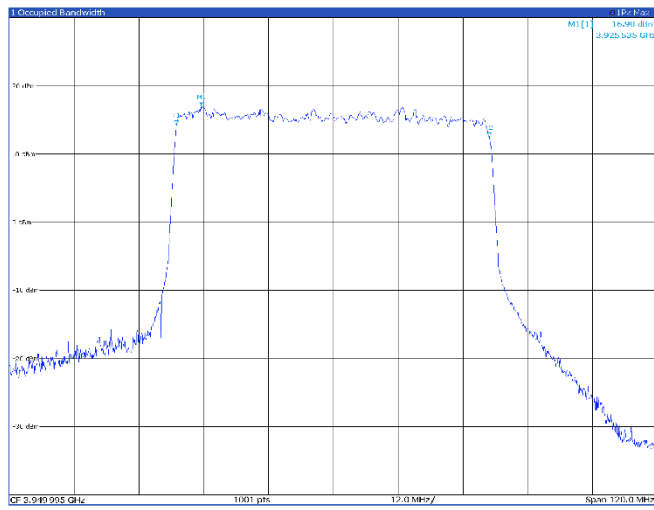
TM3p1a, 60 MHz, low channel



TM3p1a, 60 MHz, mid channel

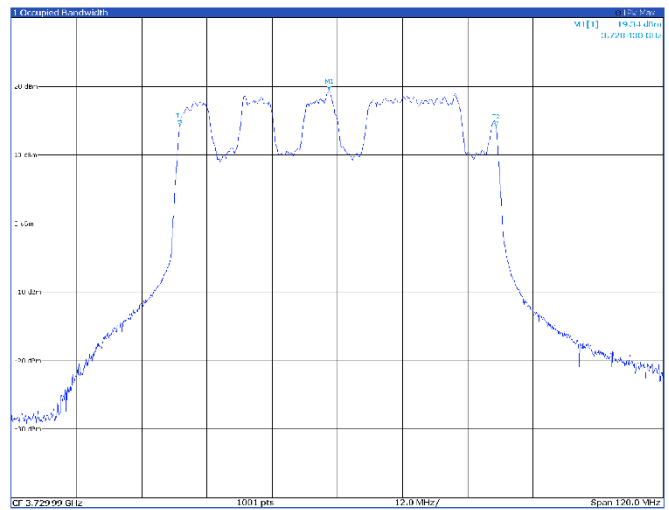


TM3p1a, 60 MHz, high channel



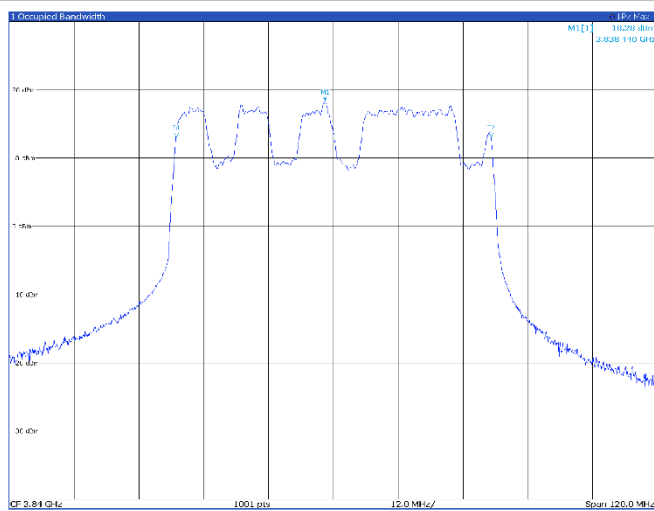
Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.925 535 GHz	16.98 dBm	Occ Sw	57.906 647 124 MHz
M1	1		3.925 535 GHz	16.98 dBm	Occ Sw	57.906 647 124 MHz
M1	1		3.925 535 GHz	16.98 dBm	Occ Sw	57.906 647 124 MHz

TM3p3, 60 MHz, low channel



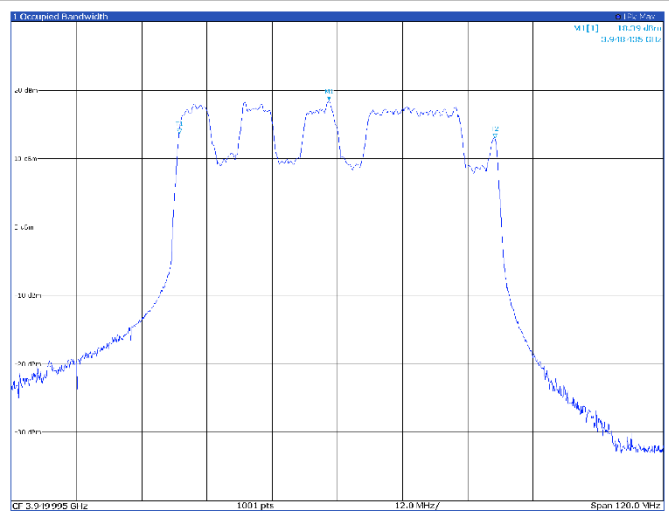
Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.720 43 GHz	19.34 dBm	Occ Sw	58.189 255 274 MHz
M1	1		3.720 43 GHz	19.34 dBm	Occ Sw	58.189 255 274 MHz
M1	1		3.720 43 GHz	19.34 dBm	Occ Sw	58.189 255 274 MHz

TM3p3, 60 MHz, mid channel



Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.838 44 GHz	18.28 dBm	Occ Sw	58.262 022 718 MHz
M1	1		3.838 44 GHz	18.28 dBm	Occ Sw	58.262 022 718 MHz
M1	1		3.838 44 GHz	18.28 dBm	Occ Sw	58.262 022 718 MHz

TM3p3, 60 MHz, high channel

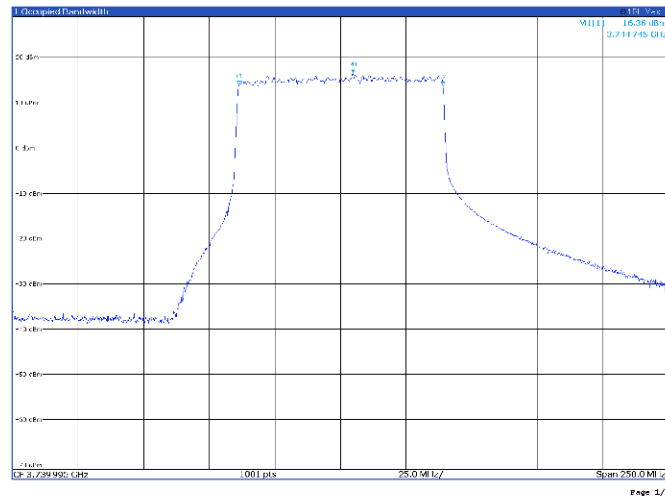


Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.948 435 GHz	18.39 dBm	Occ Sw	58.153 162 692 MHz
M1	1		3.948 435 GHz	18.39 dBm	Occ Sw	58.153 162 692 MHz
M1	1		3.948 435 GHz	18.39 dBm	Occ Sw	58.153 162 692 MHz

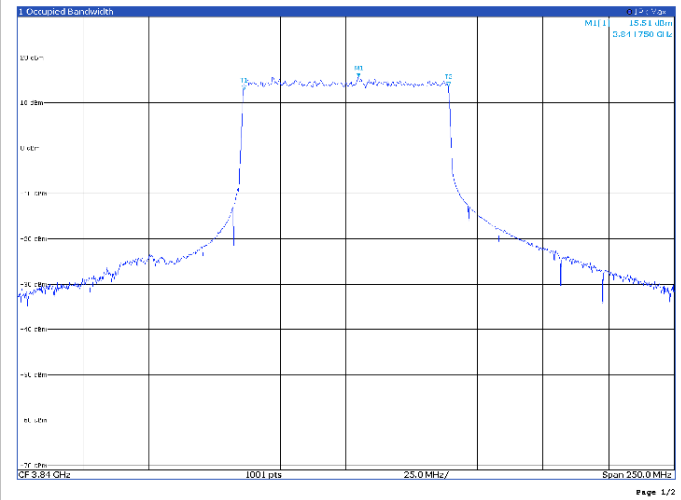
Band n77 - 99% Occupied Bandwidth Antenna port 1

80 MHz

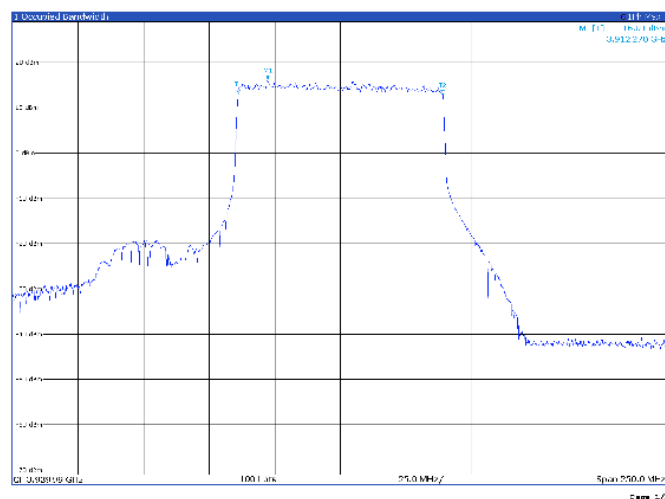
TM1.1, 80 MHz, low channel



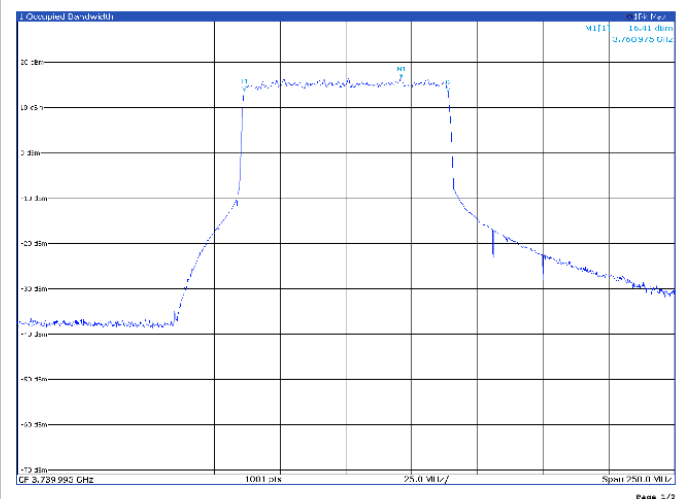
TM1.1, 80 MHz, mid channel



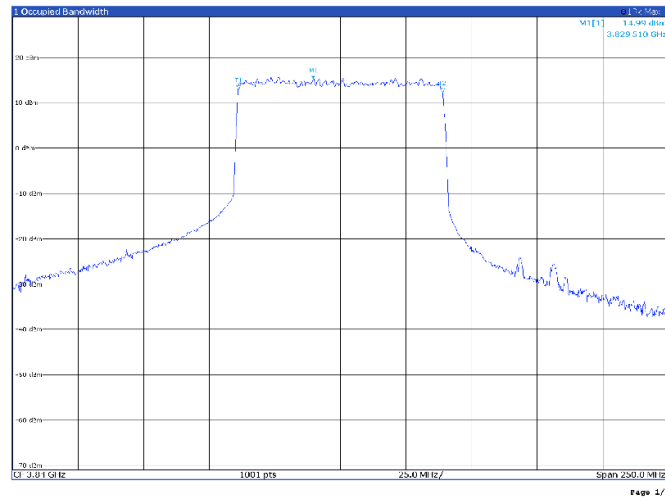
TM1.1, 80 MHz, high channel



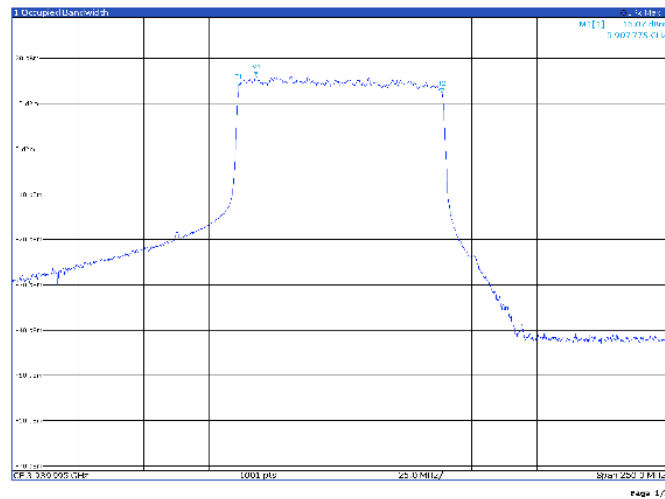
TM3p1, 80 MHz, low channel



TM3p1, 80 MHz, mid channel

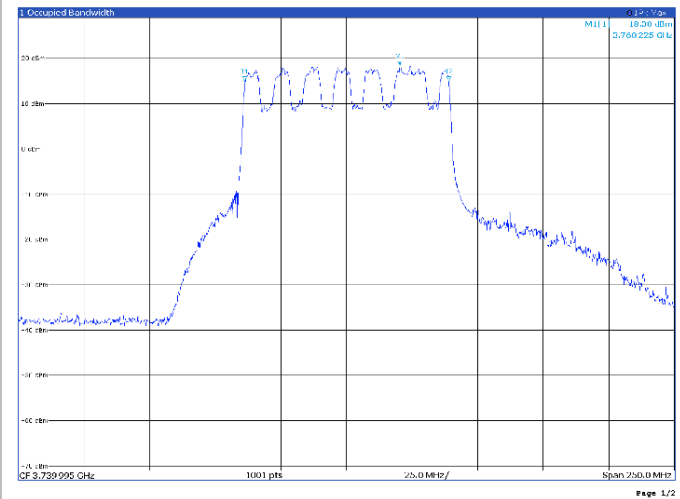


TM3p1a, 80 MHz, high channel



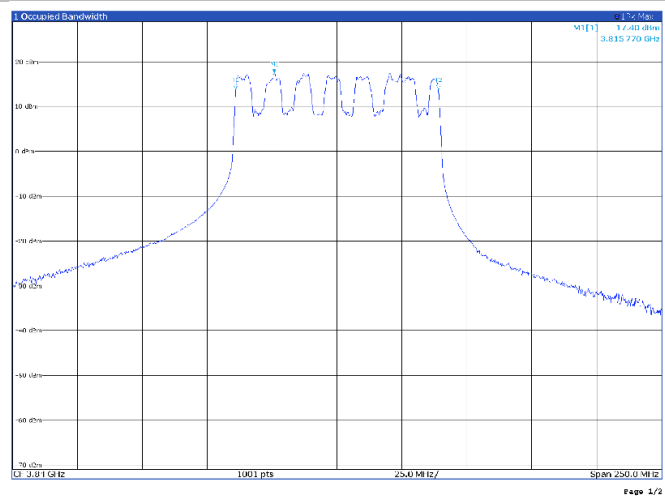
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	-	-	3.907775 GHz	16.07 dBm	Occupied BW	77.46632237 MHz
T1	-	-	3.907775 GHz	16.07 dBm	Occupied BW	77.46632237 MHz
T2	-	-	3.907775 GHz	16.07 dBm	Occupied BW	77.46632237 MHz

TM3p3, 80 MHz, low channel



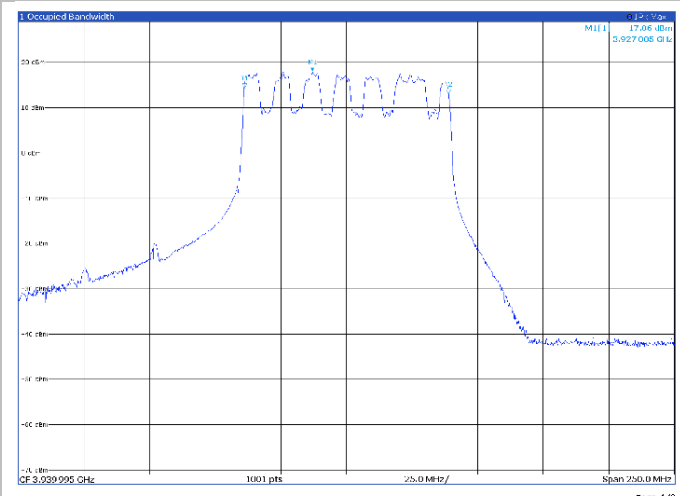
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	-	-	3.760235 GHz	16.30 dBm	Occupied BW	77.859805172 MHz
T1	-	-	3.760235 GHz	16.30 dBm	Occupied BW	77.859805172 MHz
T2	-	-	3.760235 GHz	16.30 dBm	Occupied BW	77.859805172 MHz

TM3p3, 80 MHz, mid channel



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	-	-	3.81577 GHz	17.40 dBm	Occupied BW	78.044224915 MHz
T1	-	-	3.81577 GHz	17.40 dBm	Occupied BW	78.044224915 MHz
T2	-	-	3.81577 GHz	17.40 dBm	Occupied BW	78.044224915 MHz

TM3p3, 80 MHz, high channel

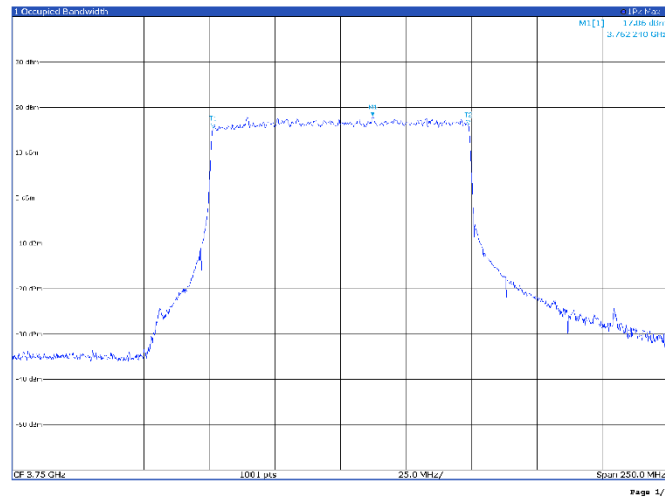


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	-	-	3.927005 GHz	17.86 dBm	Occupied BW	77.880210808 MHz
T1	-	-	3.927005 GHz	17.86 dBm	Occupied BW	77.880210808 MHz
T2	-	-	3.927005 GHz	17.86 dBm	Occupied BW	77.880210808 MHz

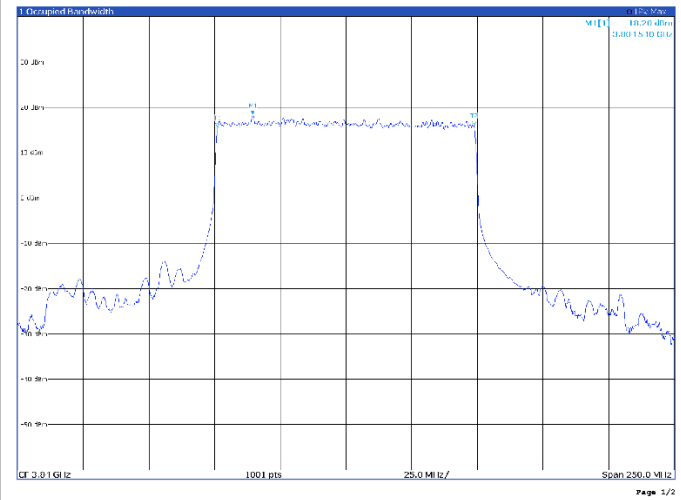
Band n77 - 99% Occupied Bandwidth Antenna port 1

100 MHz

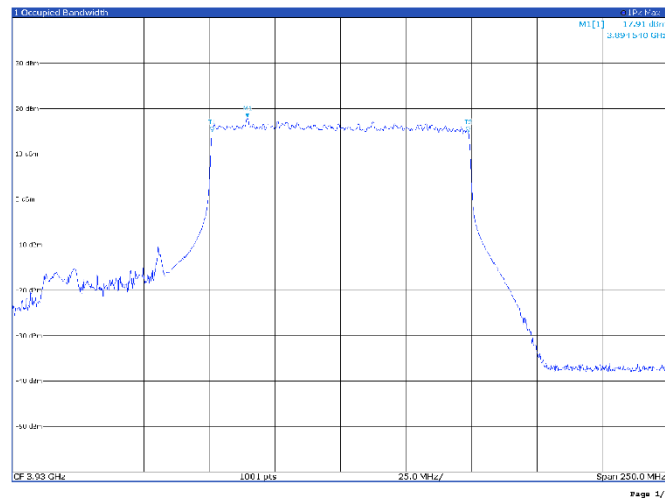
TM1.1, 100 MHz, low channel



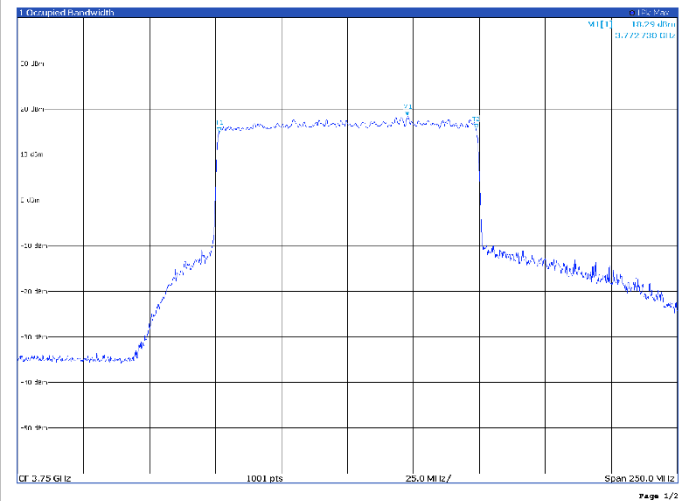
TM1.1, 100 MHz, mid channel

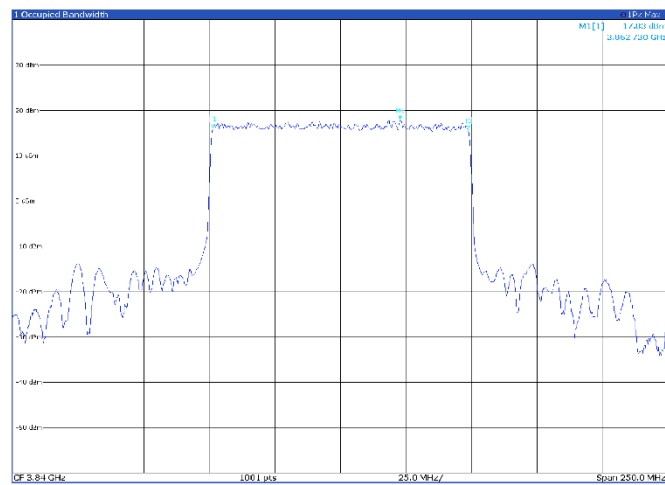


TM1.1, 100 MHz, high channel



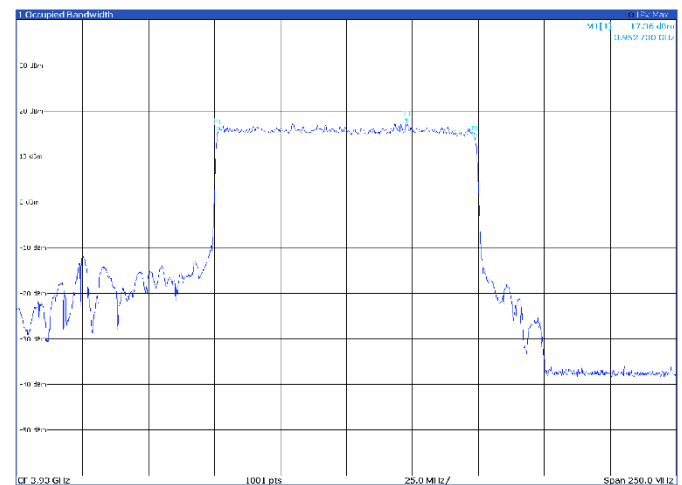
TM3p1, 100 MHz, low channel



TM3p1, 100 MHz, mid channel


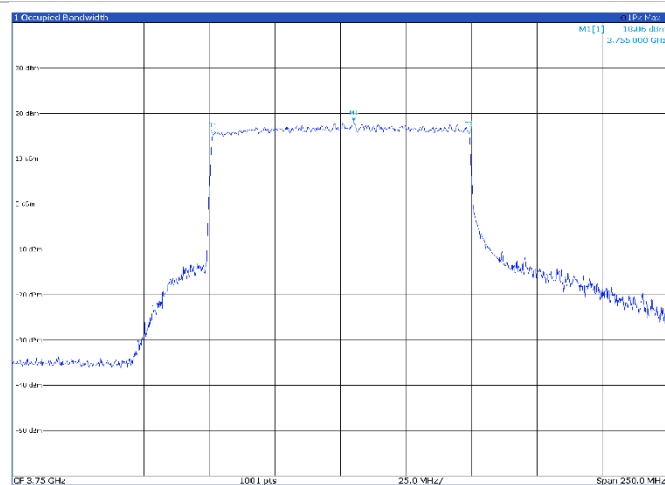
Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.86273 GHz	17.83 dBm	Occ. BW	97.568866188 MHz
T1	1		2.798193 GHz	15.17 dBm	Occ. BW Centroid	2.929977440 GHz
L1	1		3.86273 GHz	15.17 dBm	Occ. BW Offset	27.933346200 dBm

TM3p1, 100 MHz, high channel


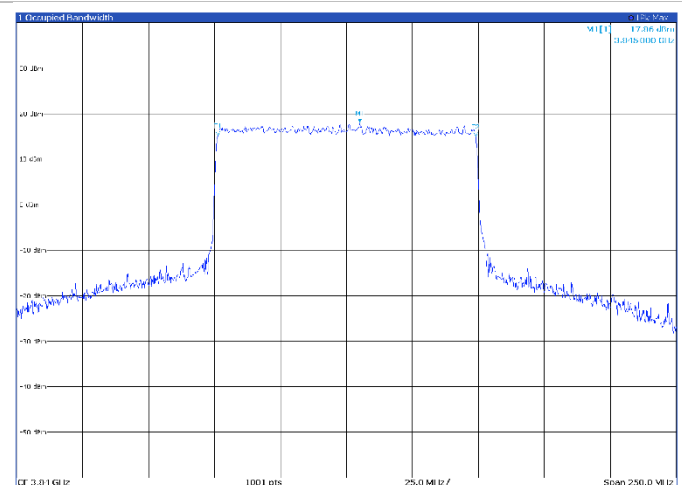
Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.86273 GHz	17.86 dBm	Occ. BW	97.440575118 MHz
T1	1		2.601100 GHz	15.17 dBm	Occ. BW Centroid	2.929907472 GHz
L1	1		3.86273 GHz	15.17 dBm	Occ. BW Offset	27.933346200 dBm

TM3p1a, 100 MHz, low channel


Page 1/2

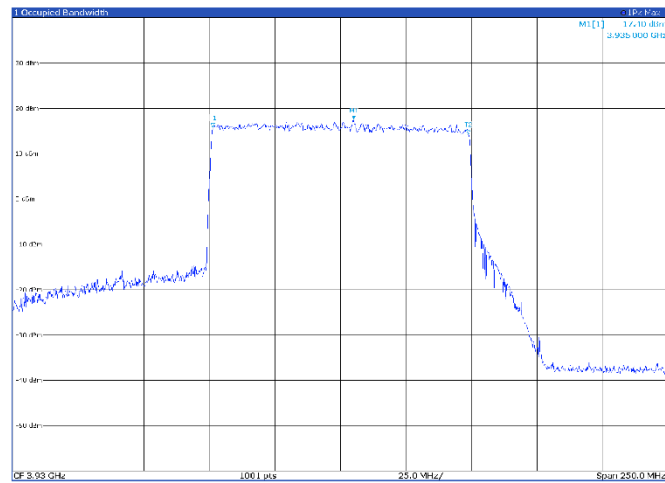
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.755 GHz	18.06 dBm	Occ. BW	97.578497926 MHz
T1	1		2.798193 GHz	15.17 dBm	Occ. BW Centroid	2.793203034 GHz
L1	1		3.755 GHz	15.17 dBm	Occ. BW Offset	27.933346200 dBm

TM3p1a, 100 MHz, mid channel


Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.845 GHz	17.86 dBm	Occ. BW	97.569134613 MHz
T1	1		2.798193 GHz	15.17 dBm	Occ. BW Centroid	2.929735376 GHz
L1	1		3.845 GHz	15.17 dBm	Occ. BW Offset	27.933346200 dBm

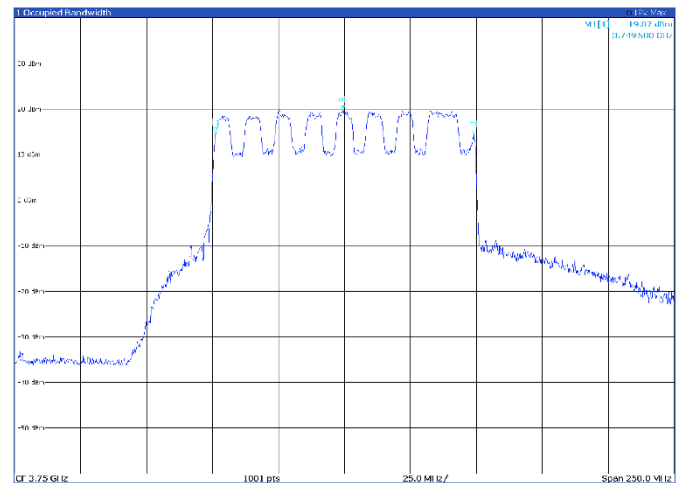
TM3p1a, 100 MHz, high channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.935 GHz	17.40 dBm	Dec BW	97.561870215 MHz
T1	1		2.605 dBm	15.72 dBm	Dec BW Centroid	2.52101101 GHz
T2	1		3.935 GHz	18.40 dBm	Dec BW Centroid	1.801101101 GHz

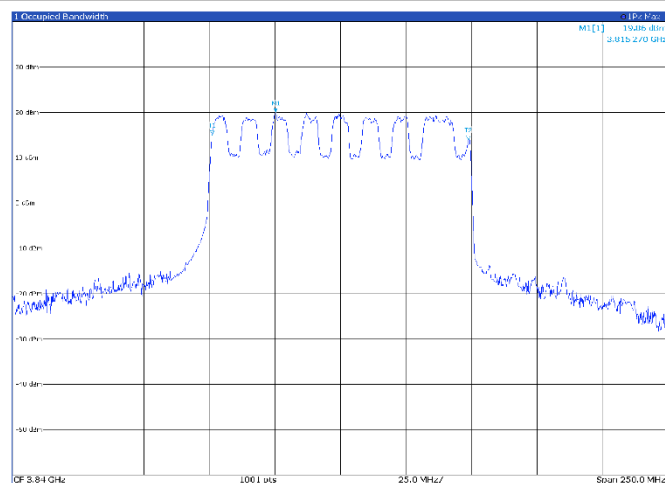
TM3p3, 100 MHz, low channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.7495 GHz	19.67 dBm	Dec BW	97.524390065 MHz
T1	1		3.701101 GHz	14.86 dBm	Dec BW Centroid	3.750101101 GHz
T2	1		3.7495 GHz	18.45 dBm	Dec BW Centroid	1.801101101 GHz

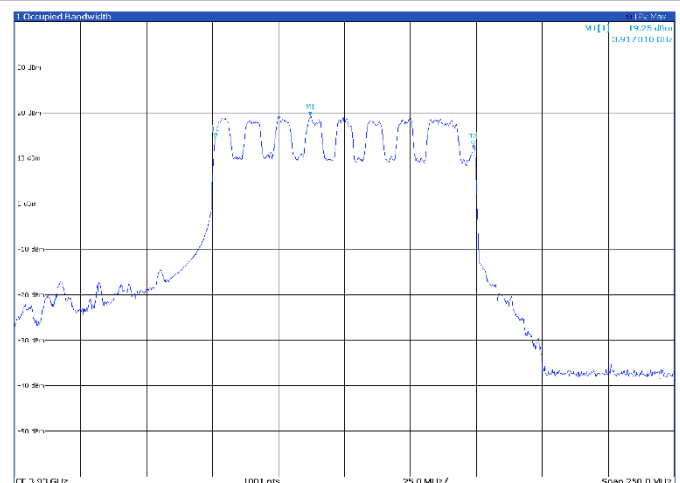
TM3p3, 100 MHz, mid channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.81527 GHz	19.86 dBm	Dec BW	97.652698233 MHz
T1	1		2.701101 GHz	15.72 dBm	Dec BW Centroid	2.52101101 GHz
T2	1		3.81527 GHz	18.45 dBm	Dec BW Centroid	1.801101101 GHz

TM3p3, 100 MHz, high channel



Page 1/2

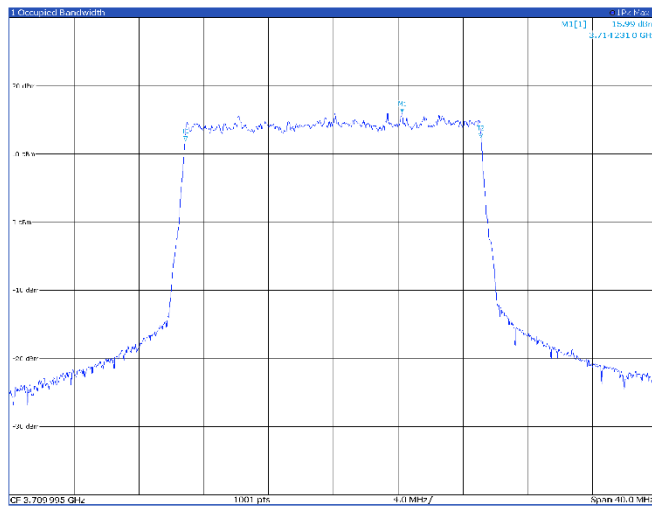
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.91701 GHz	19.25 dBm	Dec BW	97.520127344 MHz
T1	1		2.701101 GHz	15.72 dBm	Dec BW Centroid	2.52101101 GHz
T2	1		3.91701 GHz	18.45 dBm	Dec BW Centroid	1.801101101 GHz

Antenna port 2

Band n77 - 99% Occupied Bandwidth Antenna port 2

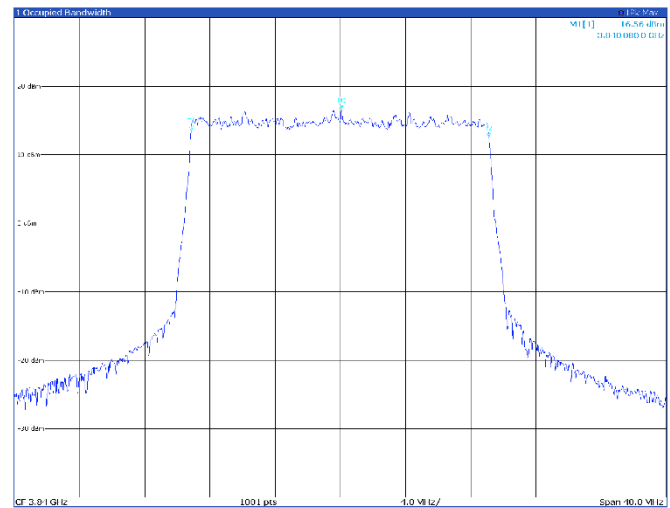
20 MHz

TM1.1, 20 MHz, low channel



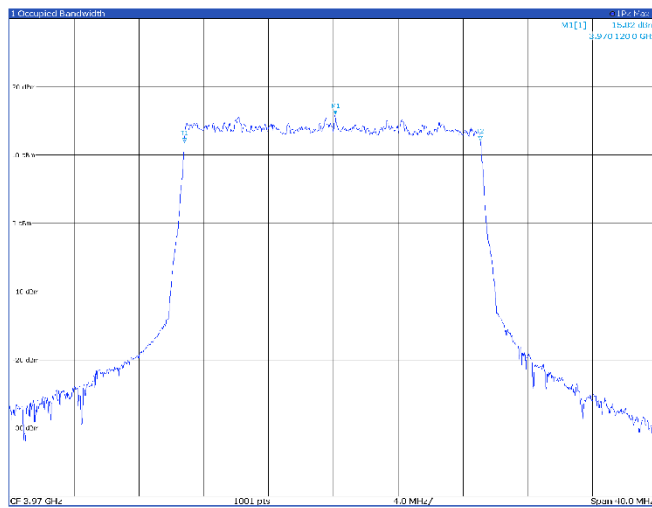
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.714 231 GHz	15.99 dBm	Occ Sw		18.247 776 106 MHz
F1	1		2.702 023 4 GHz	11.05 dBm	Occ Sw Channel		2.629 57 324 5 GHz
F2	1		3.714 231 GHz	15.99 dBm	Occ Sw Channel		2.629 57 324 5 GHz

TM1.1, 20 MHz, mid channel



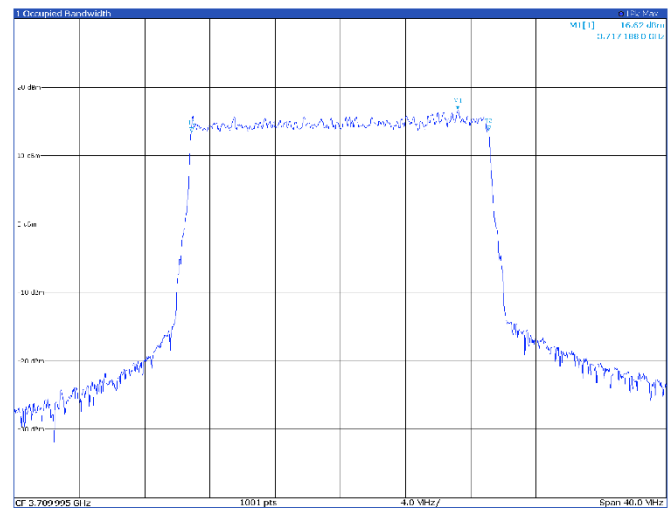
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.840 08 GHz	16.56 dBm	Occ Sw		18.264 079 723 MHz
F1	1		2.621 911 5 GHz	13.12 dBm	Occ Sw Channel		2.629 57 324 5 GHz
F2	1		3.840 08 GHz	16.56 dBm	Occ Sw Channel		2.629 57 324 5 GHz

TM1.1, 20 MHz, high channel



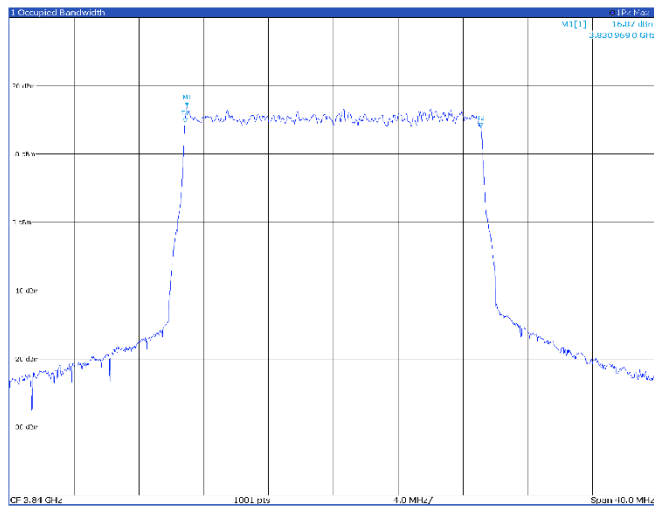
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.970 12 GHz	15.82 dBm	Occ Sw		18.257 308 033 MHz
F1	1		2.962 023 4 GHz	11.05 dBm	Occ Sw Channel		2.629 57 324 5 GHz
F2	1		3.970 12 GHz	15.82 dBm	Occ Sw Channel		2.629 57 324 5 GHz

TM3p1, 20 MHz, low channel



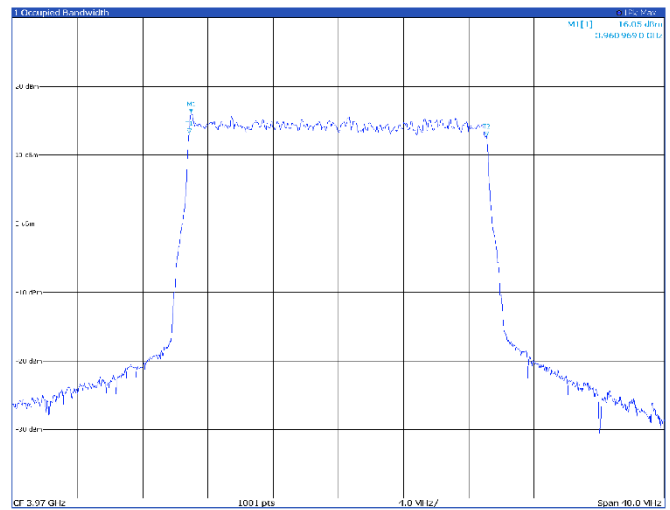
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.717 188 GHz	16.62 dBm	Occ Sw		18.252 150 904 MHz
F1	1		2.700 023 4 GHz	11.05 dBm	Occ Sw Channel		2.629 57 324 5 GHz
F2	1		3.717 188 GHz	16.62 dBm	Occ Sw Channel		2.629 57 324 5 GHz

TM3p1, 20 MHz, mid channel



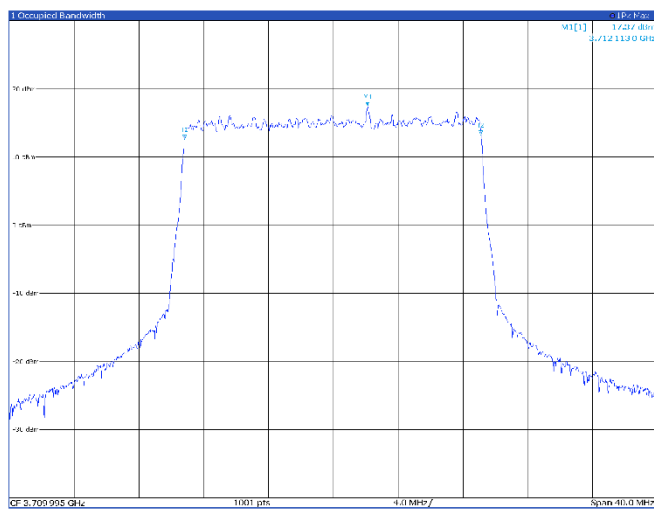
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	-	1	3.630 969 GHz	16.87 dBm	Occ BW	18.262311 664 MHz
M1	-	1	2.922 046 7 GHz	14.64 dBm	Occ BW Channel 1	2.922 046 7 GHz
M2	-	1	2.922 046 7 GHz	14.64 dBm	Occ BW Channel 2	2.922 046 7 GHz

TM3p1, 20 MHz, high channel



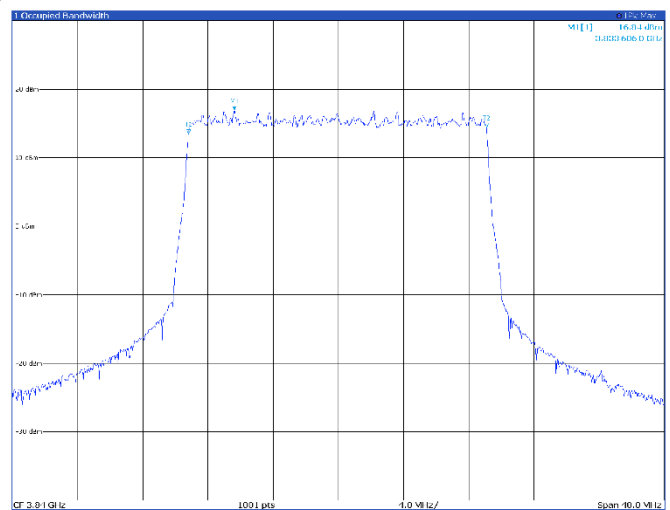
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	-	1	3.960 969 GHz	16.05 dBm	Occ BW	18.244145 064 MHz
M1	-	1	3.960 969 7 GHz	13.12 dBm	Occ BW Channel 1	3.960 969 7 GHz
M2	-	1	3.960 969 7 GHz	12.72 dBm	Occ BW Channel 2	3.960 969 7 GHz

TM3p1a, 20 MHz, low channel



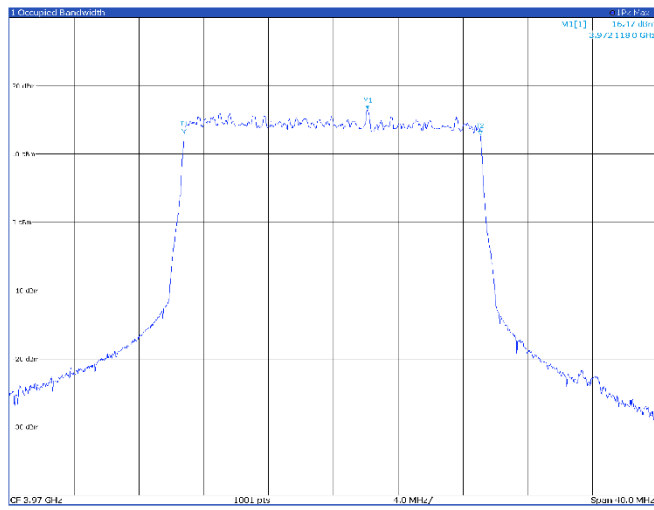
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	-	1	3.712 113 GHz	17.37 dBm	Occ BW	18.279098 934 MHz
M1	-	1	2.702 029 0 GHz	12.60 dBm	Occ BW Channel 1	2.702 029 0 GHz
M2	-	1	2.702 029 0 GHz	12.31 dBm	Occ BW Channel 2	2.702 029 0 GHz

TM3p1a, 20 MHz, mid channel



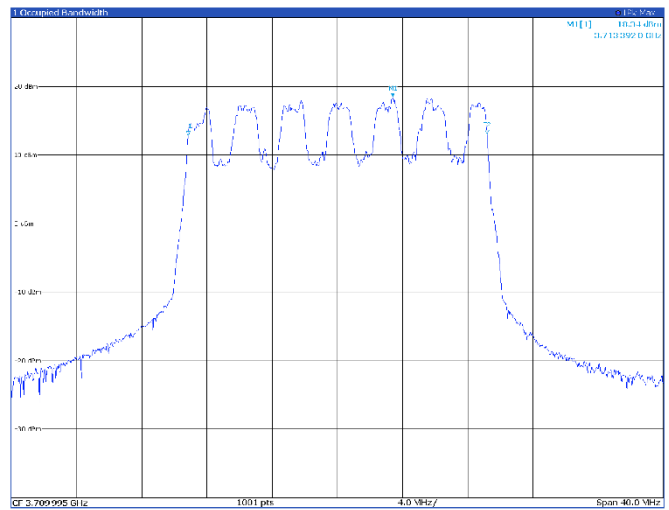
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	-	1	3.833 606 GHz	16.84 dBm	Occ BW	18.285189 543 MHz
M1	-	1	3.833 606 7 GHz	13.15 dBm	Occ BW Channel 1	3.833 606 7 GHz
M2	-	1	3.833 606 7 GHz	12.41 dBm	Occ BW Channel 2	3.833 606 7 GHz

TM3p1a, 20 MHz, high channel



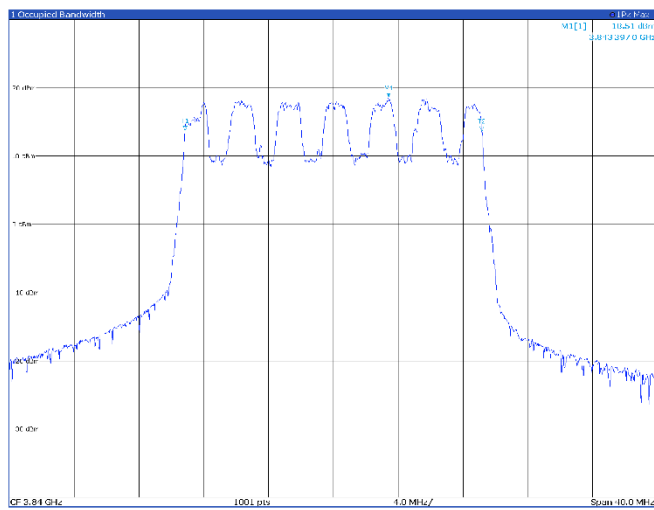
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
P1	1		3.972118 GHz	16.17 dBm	Occ Sw	Occupied Bandwidth	18.277974 244 MHz
P1	1		3.972118 GHz	16.17 dBm	Occ Sw	Occupied Bandwidth	18.277974 244 MHz
P1	1		3.972118 GHz	16.17 dBm	Occ Sw	Occupied Bandwidth	18.277974 244 MHz

TM3p3, 20 MHz, low channel



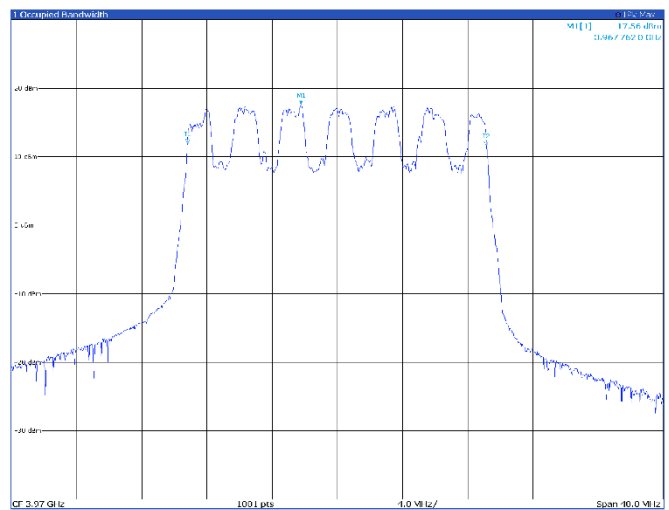
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
P1	1		3.713392 GHz	16.34 dBm	Occ Sw	Occupied Bandwidth	18.327431 201 MHz
P1	1		3.713392 GHz	16.34 dBm	Occ Sw	Occupied Bandwidth	18.327431 201 MHz
P1	1		3.713392 GHz	16.34 dBm	Occ Sw	Occupied Bandwidth	18.327431 201 MHz

TM3p3, 20 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
P1	1		3.843397 GHz	18.51 dBm	Occ Sw	Occupied Bandwidth	18.328229 533 MHz
P1	1		3.843397 GHz	18.51 dBm	Occ Sw	Occupied Bandwidth	18.328229 533 MHz
P1	1		3.843397 GHz	18.51 dBm	Occ Sw	Occupied Bandwidth	18.328229 533 MHz

TM3p3, 20 MHz, high channel

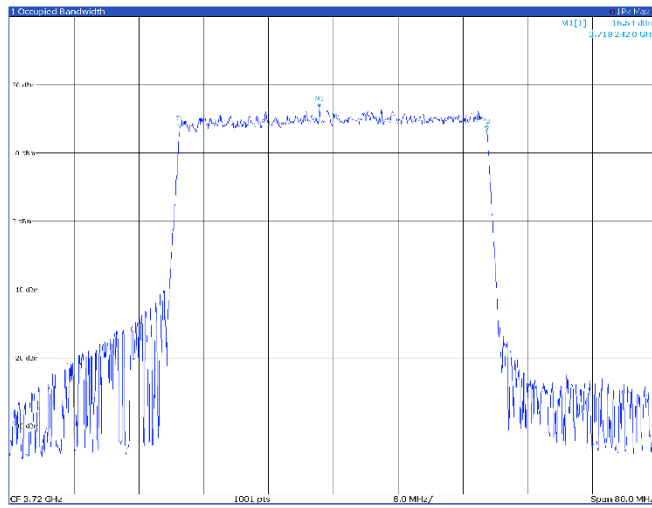


Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
P1	1		3.967762 GHz	17.56 dBm	Occ Sw	Occupied Bandwidth	18.320921 028 MHz
P1	1		3.967762 GHz	17.56 dBm	Occ Sw	Occupied Bandwidth	18.320921 028 MHz
P1	1		3.967762 GHz	17.56 dBm	Occ Sw	Occupied Bandwidth	18.320921 028 MHz

Band n77 - 99% Occupied Bandwidth Antenna port 2

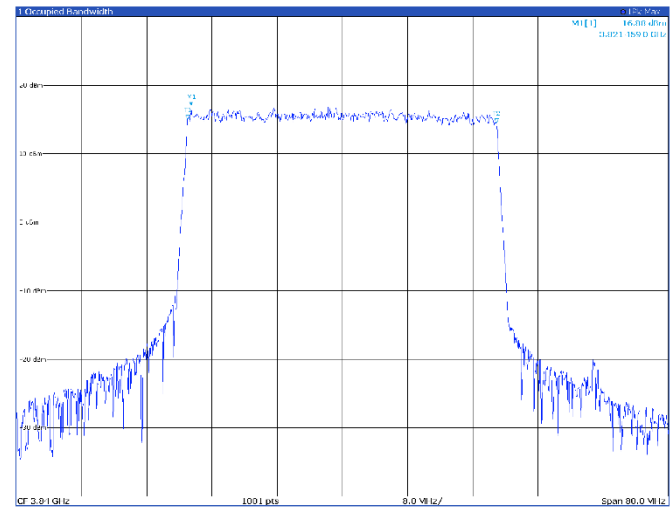
40 MHz

TM1.1, 40 MHz, low channel



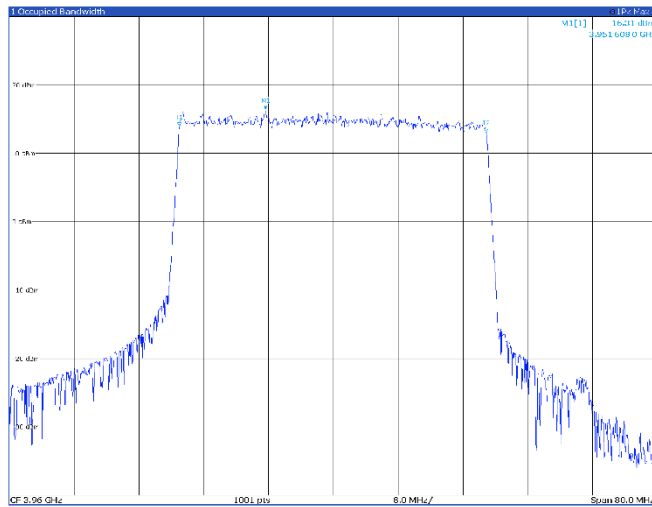
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.718 242 GHz	16.54 dBm	Occ BW	37.668 683 313 MHz
T1	1		3.718 242 GHz	16.54 dBm	Occ BW Control	3.718 242 GHz
T2	1		3.718 242 GHz	16.54 dBm	Occ BW Offset	3.718 242 GHz

TM1.1, 40 MHz, mid channel



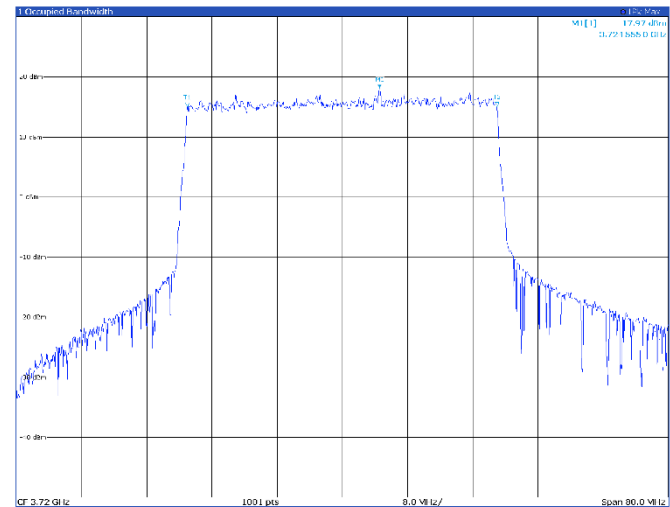
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.821 459 GHz	16.88 dBm	Occ BW	37.900 147 371 MHz
T1	1		3.821 459 GHz	16.88 dBm	Occ BW Control	3.821 459 GHz
T2	1		3.821 459 GHz	16.88 dBm	Occ BW Offset	3.821 459 GHz

TM1.1, 40 MHz, high channel



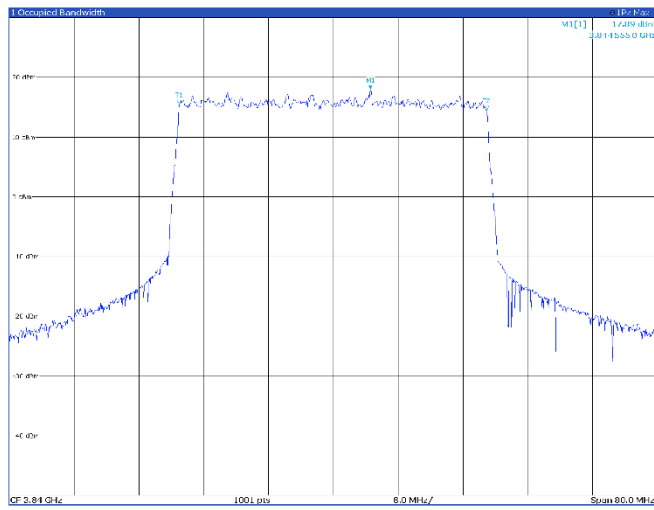
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.951 608 GHz	16.31 dBm	Occ BW	37.883 480 02 MHz
T1	1		3.951 608 GHz	16.31 dBm	Occ BW Control	3.951 608 GHz
T2	1		3.951 608 GHz	16.31 dBm	Occ BW Offset	3.951 608 GHz

TM3p1, 40 MHz, low channel



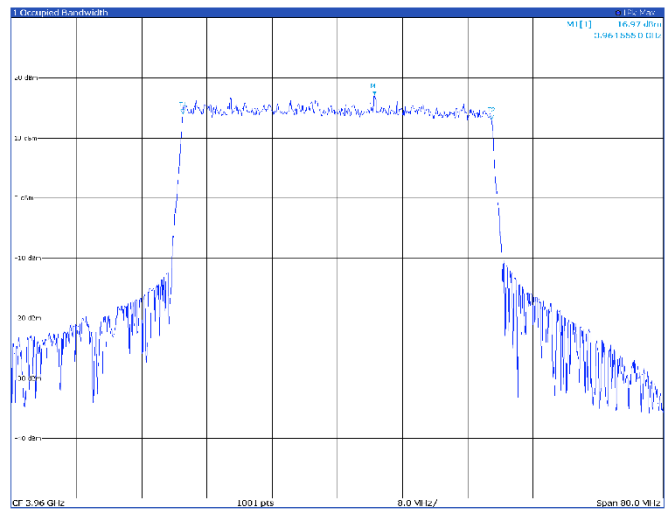
Type	Ref	Trc	X Value	Y Value	Function	Function Result
P1	1		3.724 555 GHz	17.97 dBm	Occ BW	37.970 022 522 MHz
T1	1		3.724 555 GHz	17.97 dBm	Occ BW Control	3.724 555 GHz
T2	1		3.724 555 GHz	17.97 dBm	Occ BW Offset	3.724 555 GHz

TM3p1, 40 MHz, mid channel



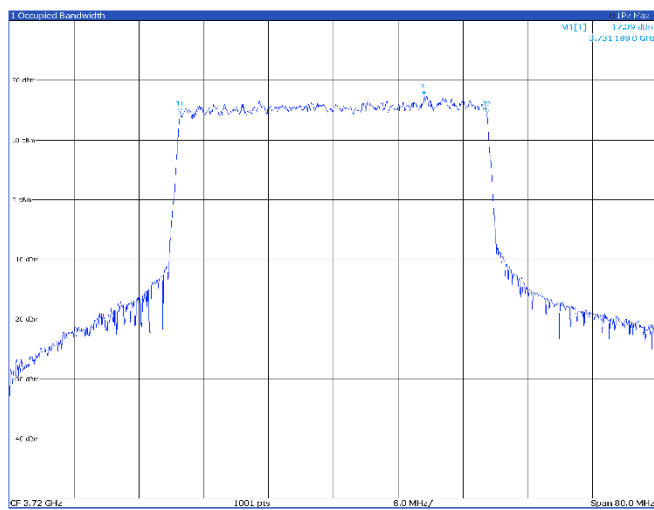
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.844 555 GHz	17.89 dBm	Off Sw		37.948 645 064 MHz
M2	1		3.844 555 GHz	17.89 dBm	Off Sw	Occ SW Control	3.844 555 GHz
M3	1		3.844 555 GHz	17.89 dBm	Off Sw	Occ SW Control	3.844 555 GHz

TM3p1, 40 MHz, high channel



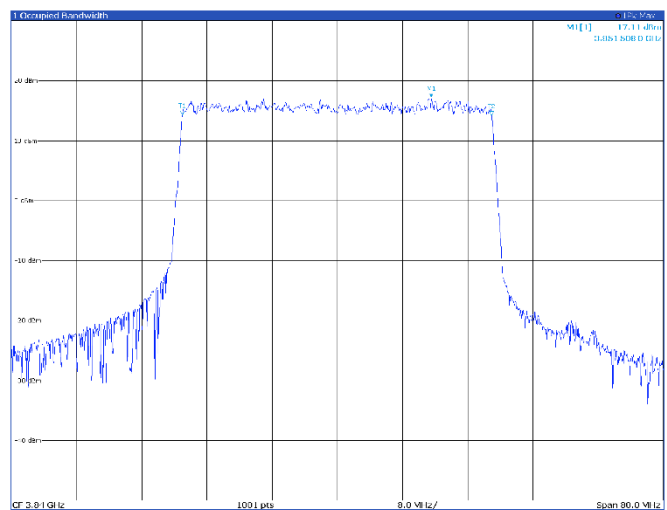
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.964 555 GHz	16.97 dBm	Off Sw		37.966 382 405 MHz
M2	1		3.964 555 GHz	16.97 dBm	Off Sw	Occ SW Control	3.964 555 GHz
M3	1		3.964 555 GHz	16.97 dBm	Off Sw	Occ SW Control	3.964 555 GHz

TM3p1a, 40 MHz, low channel



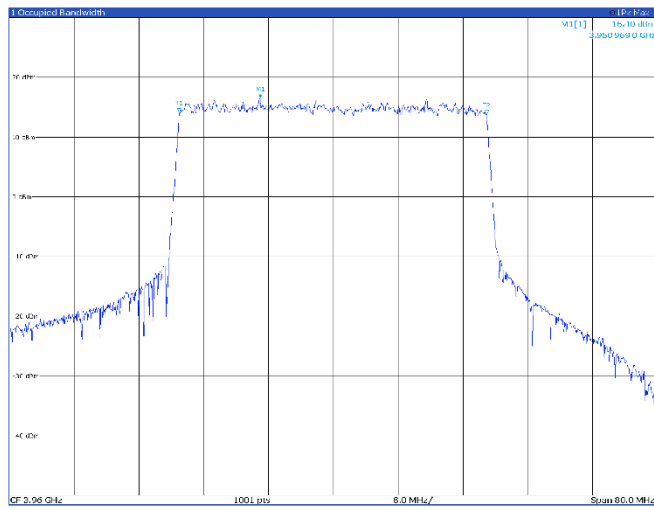
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.731 189 GHz	17.39 dBm	Off Sw		37.899 158 22 MHz
M2	1		3.731 189 GHz	17.39 dBm	Off Sw	Occ SW Control	3.731 189 GHz
M3	1		3.731 189 GHz	17.39 dBm	Off Sw	Occ SW Control	3.731 189 GHz

TM3p1a, 40 MHz, mid channel



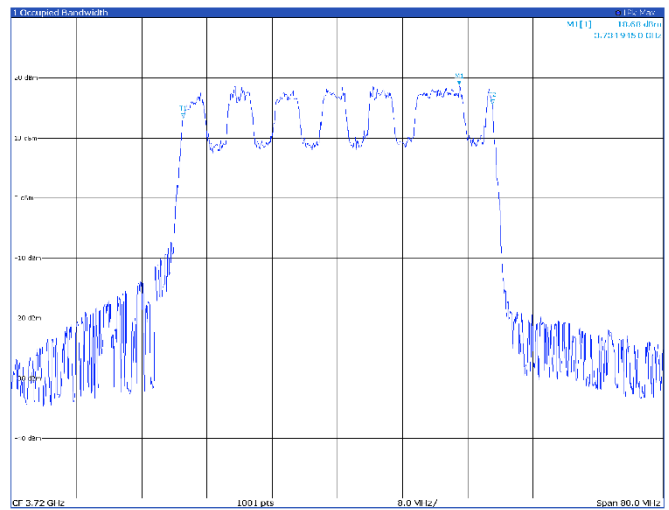
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		3.851 508 GHz	17.11 dBm	Off Sw		37.926 841 072 MHz
M2	1		3.851 508 GHz	17.11 dBm	Off Sw	Occ SW Control	3.851 508 GHz
M3	1		3.851 508 GHz	17.11 dBm	Off Sw	Occ SW Control	3.851 508 GHz

TM3p1a, 40 MHz, high channel



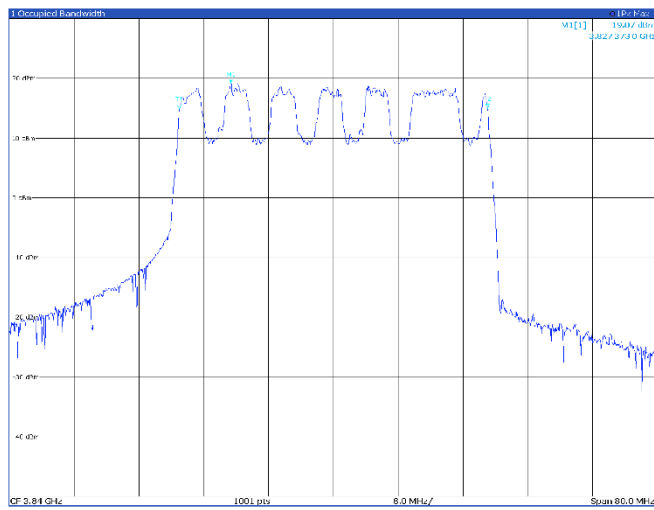
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		3.950969 GHz	16.40 dBm		Occ Sw	37.900802324 MHz
M2	1		3.949999 GHz	14.00 dBm		Occ Sw	3.950969 GHz
M3	1		3.951939 GHz	15.20 dBm		Occ Sw	3.951939 GHz

TM3p3, 40 MHz, low channel



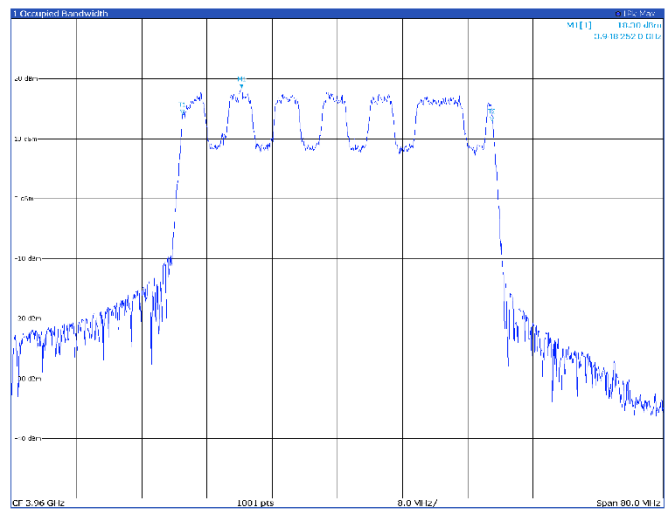
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		3.734945 GHz	18.68 dBm		Occ Sw	37.963167052 MHz
M2	1		3.730709 GHz	12.10 dBm		Occ Sw	3.730709 GHz
M3	1		3.739081 GHz	15.20 dBm		Occ Sw	3.739081 GHz

TM3p3, 40 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		3.827373 GHz	19.07 dBm		Occ Sw	38.054816465 MHz
M2	1		3.825706 GHz	14.00 dBm		Occ Sw	3.825706 GHz
M3	1		3.829040 GHz	15.20 dBm		Occ Sw	3.829040 GHz

TM3p3, 40 MHz, high channel

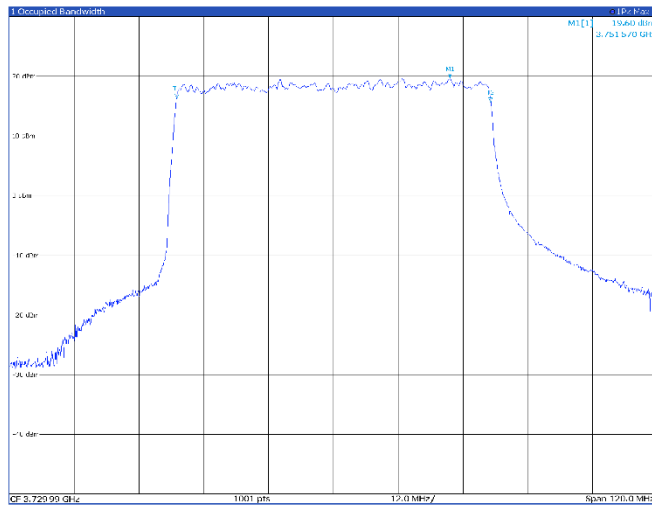


Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		3.948252 GHz	18.30 dBm		Occ Sw	38.015679232 MHz
M2	1		3.946999 GHz	14.00 dBm		Occ Sw	3.946999 GHz
M3	1		3.949505 GHz	15.20 dBm		Occ Sw	3.949505 GHz

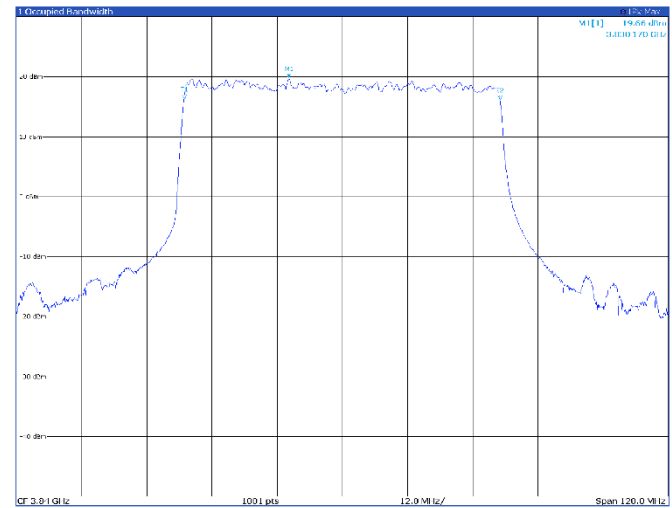
Band n77 - 99% Occupied Bandwidth Antenna port 2

60 MHz

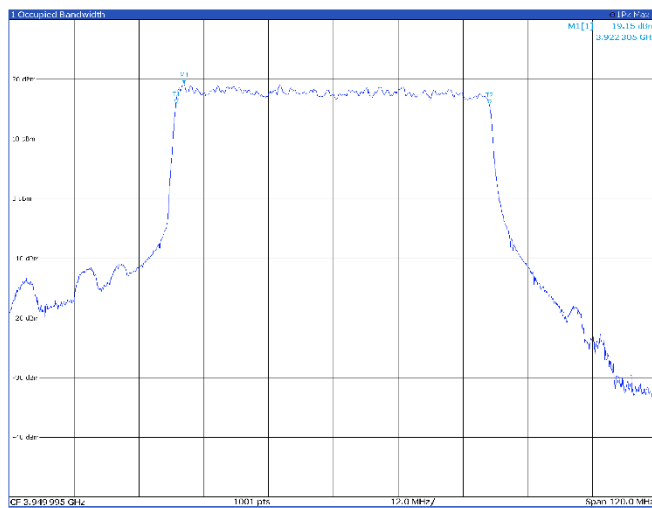
TM1.1, 60 MHz, low channel



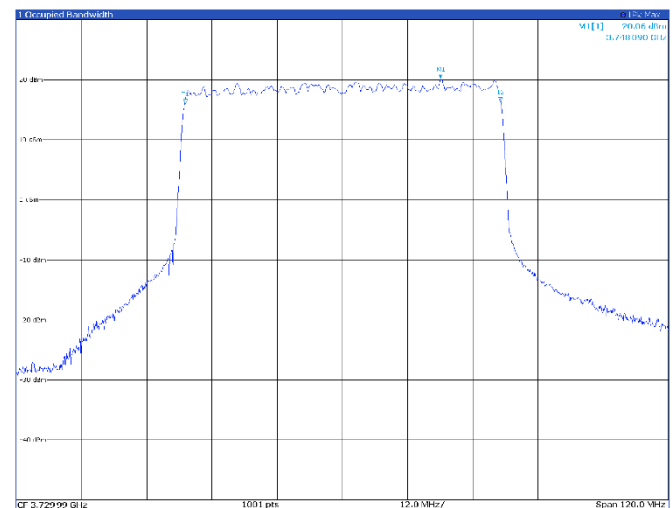
TM1.1, 60 MHz, mid channel



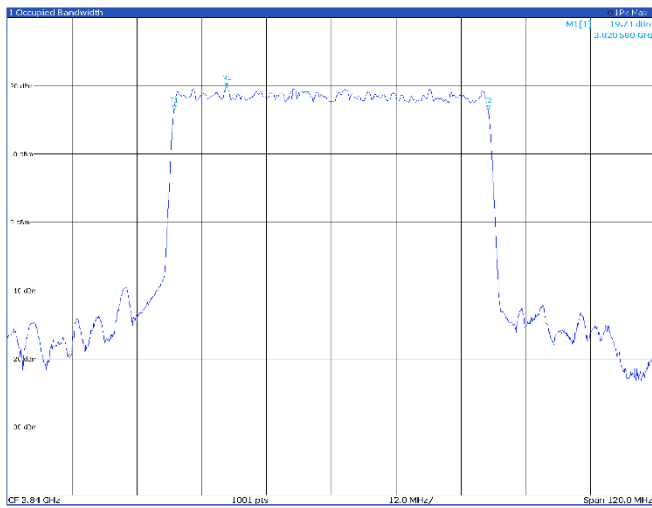
TM1.1, 60 MHz, high channel



TM3p1, 60 MHz, low channel

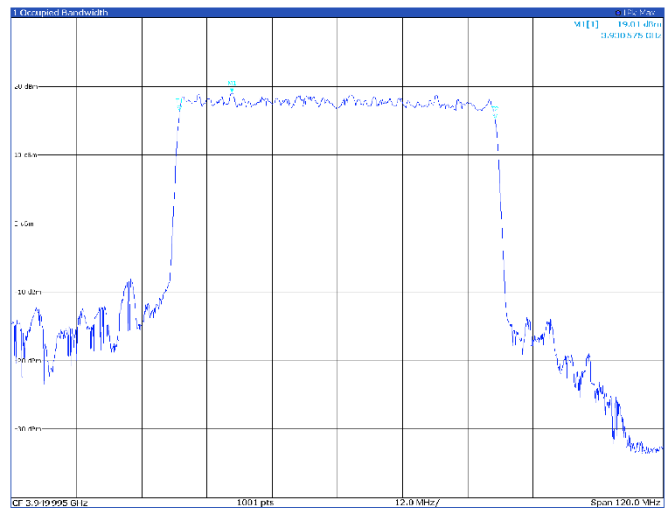


TM3p1, 60 MHz, mid channel



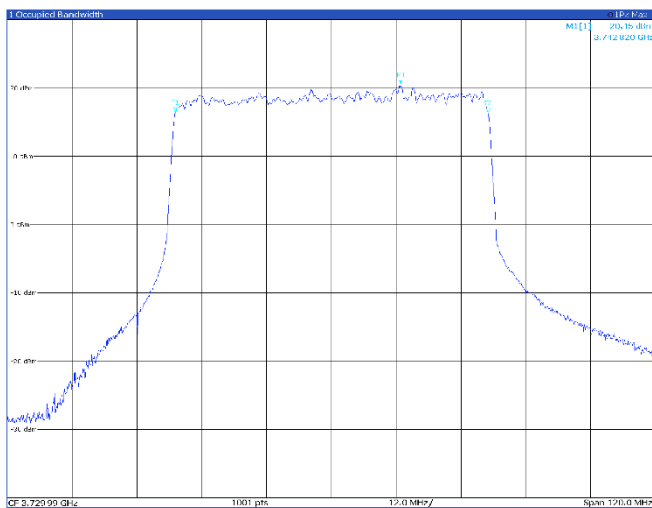
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		5.820 58 GHz	19.74 dBm		Occ Sw	58.095 012 127 MHz
M2	1		5.820 58 GHz	16.44 dBm		Occ Sw Control	58.095 012 127 MHz
M3	1		5.820 58 GHz	16.44 dBm		Occ Sw Control	58.095 012 127 MHz

TM3p1, 60 MHz, high channel



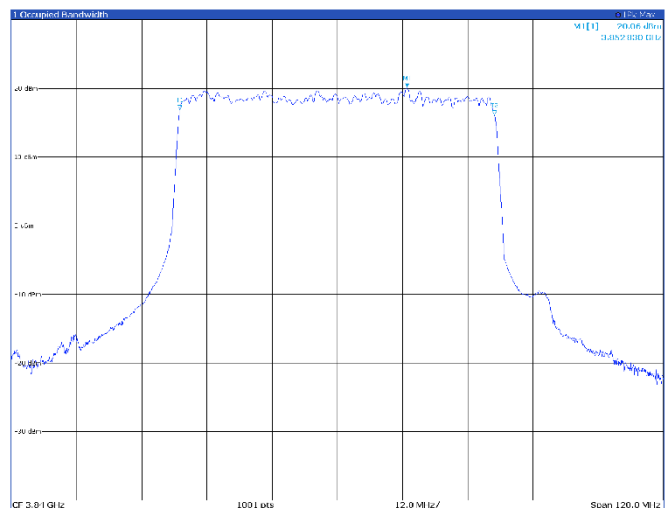
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		5.930 575 GHz	19.01 dBm		Occ Sw	58.021 835 591 MHz
M2	1		5.930 575 GHz	16.44 dBm		Occ Sw Control	58.021 835 591 MHz
M3	1		5.930 575 GHz	16.44 dBm		Occ Sw Control	58.021 835 591 MHz

TM3p1a, 60 MHz, low channel



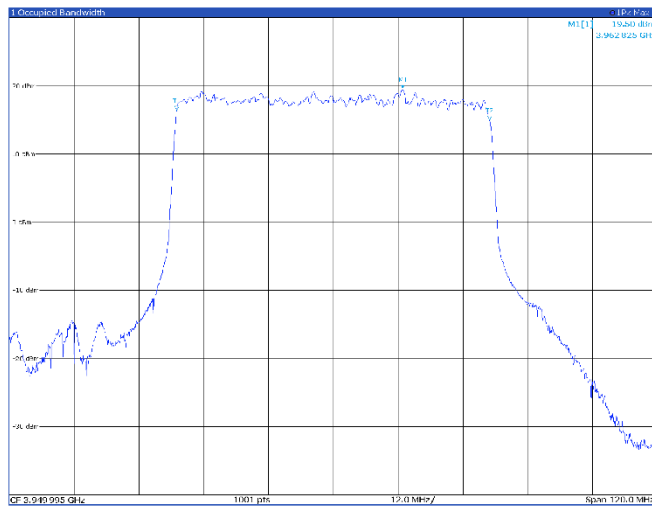
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		5.742 82 GHz	20.45 dBm		Occ Sw	57.959 856 549 MHz
M2	1		5.742 82 GHz	16.44 dBm		Occ Sw Control	57.959 856 549 MHz
M3	1		5.742 82 GHz	16.44 dBm		Occ Sw Control	57.959 856 549 MHz

TM3p1a, 60 MHz, mid channel



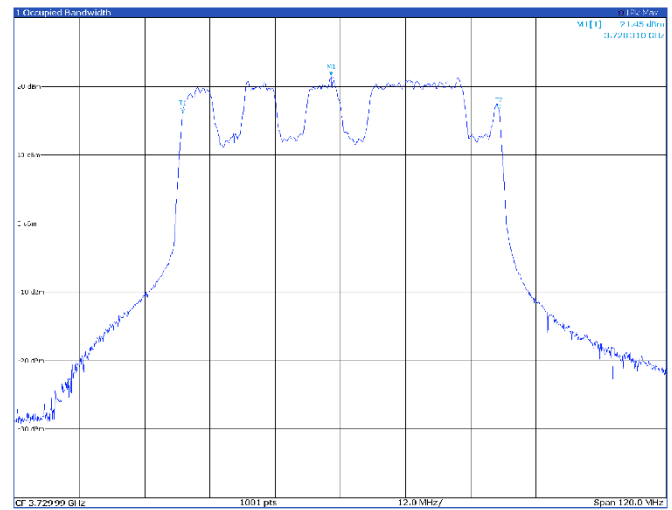
Type	Ref	Trc	X Value	Y Value	Unit	Function	Function Result
M1	1		5.952 83 GHz	20.06 dBm		Occ Sw	57.976 746 866 MHz
M2	1		5.952 83 GHz	16.44 dBm		Occ Sw Control	57.976 746 866 MHz
M3	1		5.952 83 GHz	16.44 dBm		Occ Sw Control	57.976 746 866 MHz

TM3p1a, 60 MHz, high channel



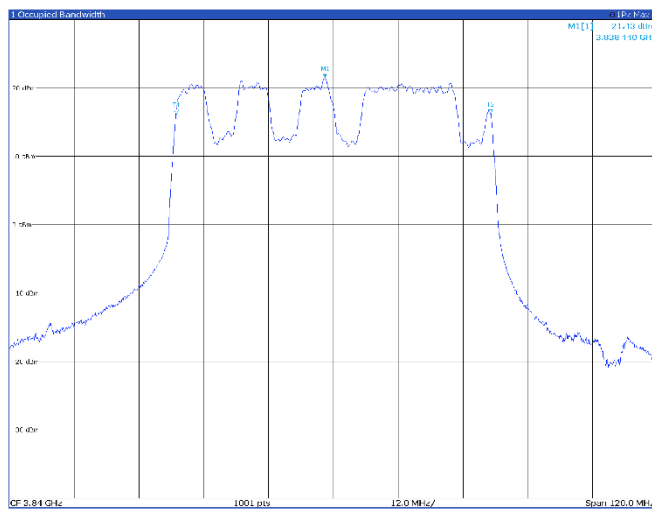
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.962825 GHz	19.50 dBm	Occ BW	57.91186083 MHz
M2	1		3.962825 GHz	16.25 dBm	Occ BW Channel	3.7202902 GHz
M3	1		3.962825 GHz	14.30 dBm	Occ BW Channel	3.7202902 GHz

TM3p3, 60 MHz, low channel



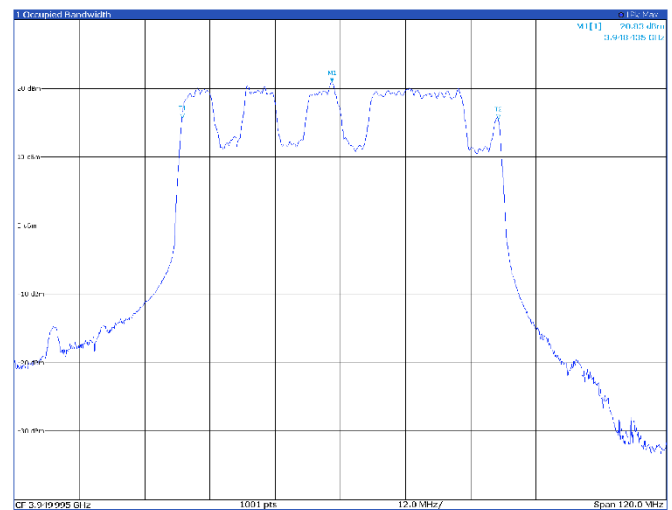
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.72831 GHz	21.45 dBm	Occ BW	58.155823806 MHz
M2	1		3.72831 GHz	16.17 dBm	Occ BW Channel	3.7202902 GHz
M3	1		3.72831 GHz	14.30 dBm	Occ BW Channel	3.7202902 GHz

TM3p3, 60 MHz, mid channel



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.83844 GHz	21.45 dBm	Occ BW	58.235155069 MHz
M2	1		3.83844 GHz	16.11 dBm	Occ BW Channel	3.7202902 GHz
M3	1		3.83844 GHz	14.30 dBm	Occ BW Channel	3.7202902 GHz

TM3p3, 60 MHz, high channel

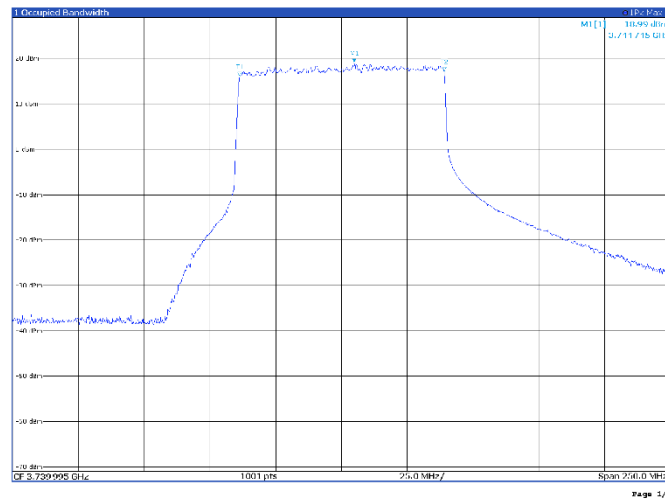


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.948435 GHz	20.83 dBm	Occ BW	58.169614461 MHz
M2	1		3.948435 GHz	16.03 dBm	Occ BW Channel	3.7202902 GHz
M3	1		3.948435 GHz	14.30 dBm	Occ BW Channel	3.7202902 GHz

Band n77 - 99% Occupied Bandwidth Antenna port 2

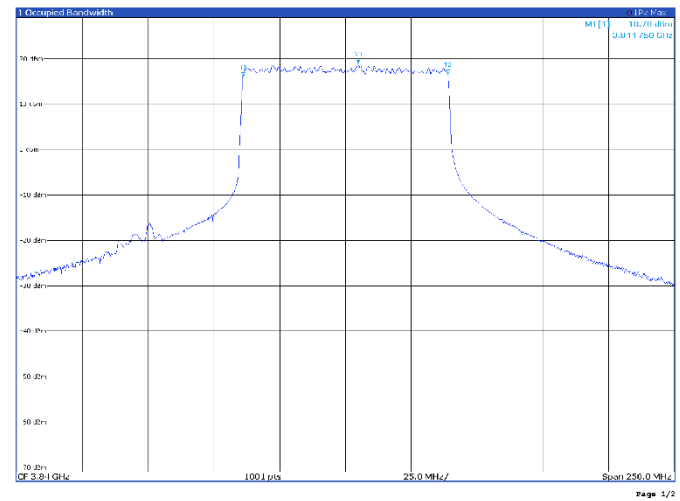
80 MHz

TM1.1, 80 MHz, low channel



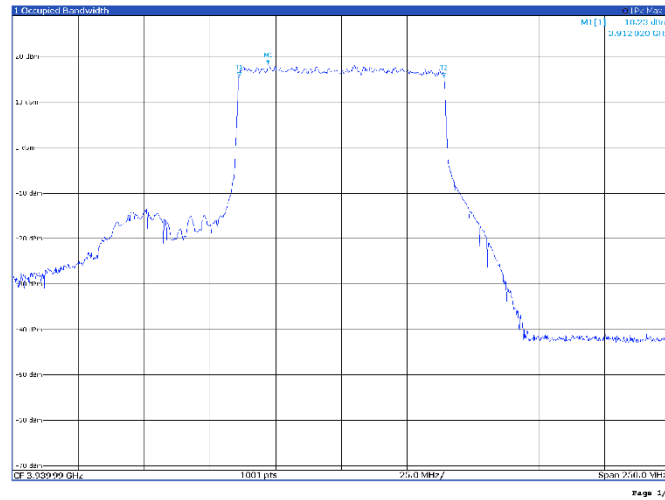
Type	Ref	Trc	X Value	Y Value	Der Plot	Function	Function Result
M1	-	-	3.744745 GHz	18.99 dBm	Der Plot	Occupied Bandwidth	77.75906146 MHz
T1	-	-	3.739995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.75906146 MHz
F1	-	-	3.749995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.75906146 MHz

TM1.1, 80 MHz, mid channel



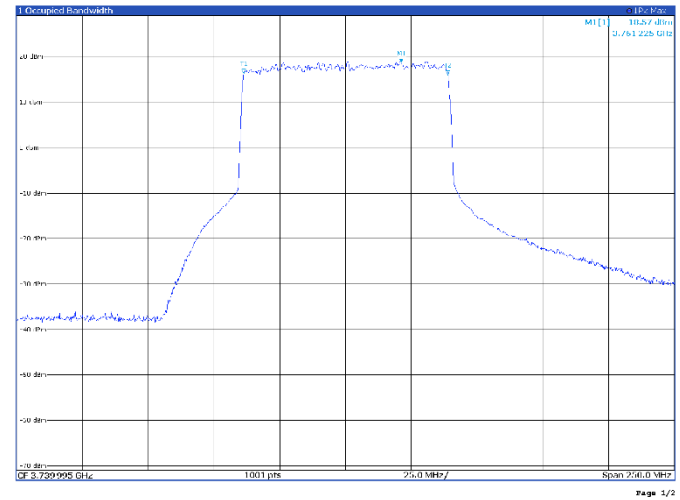
Type	Ref	Trc	X Value	Y Value	Der Plot	Function	Function Result
M1	-	-	3.84475 GHz	18.78 dBm	Der Plot	Occupied Bandwidth	77.839884853 MHz
T1	-	-	3.839995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.839884853 MHz
F1	-	-	3.849995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.839884853 MHz

TM1.1, 80 MHz, high channel



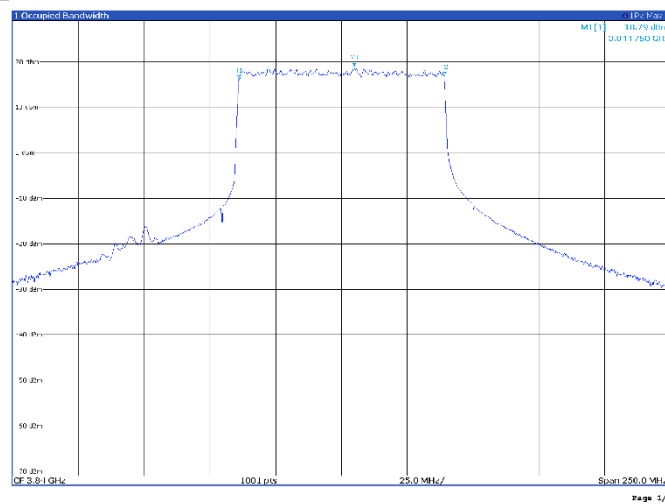
Type	Ref	Trc	X Value	Y Value	Der Plot	Function	Function Result
M1	-	-	3.91202 GHz	18.23 dBm	Der Plot	Occupied Bandwidth	77.781474526 MHz
T1	-	-	3.907995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.781474526 MHz
F1	-	-	3.916995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.781474526 MHz

TM3p1, 80 MHz, low channel



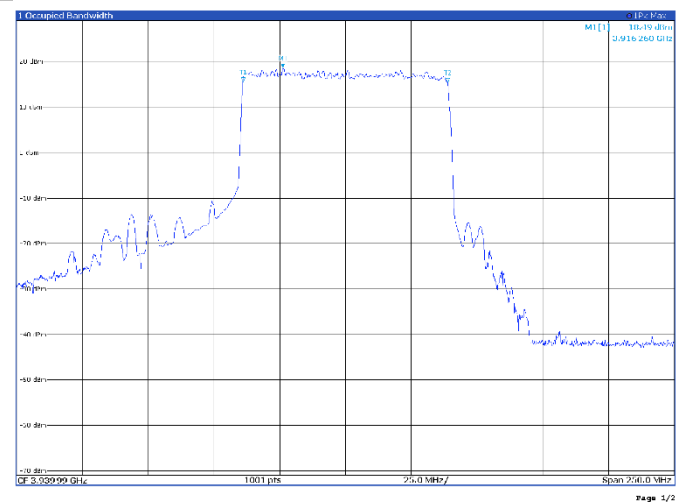
Type	Ref	Trc	X Value	Y Value	Der Plot	Function	Function Result
M1	-	-	3.761225 GHz	18.57 dBm	Der Plot	Occupied Bandwidth	77.656124449 MHz
T1	-	-	3.756995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.656124449 MHz
F1	-	-	3.765995 GHz	-50 dBm	Der Plot	Occupied Bandwidth	77.656124449 MHz

TM3p1, 80 MHz, mid channel



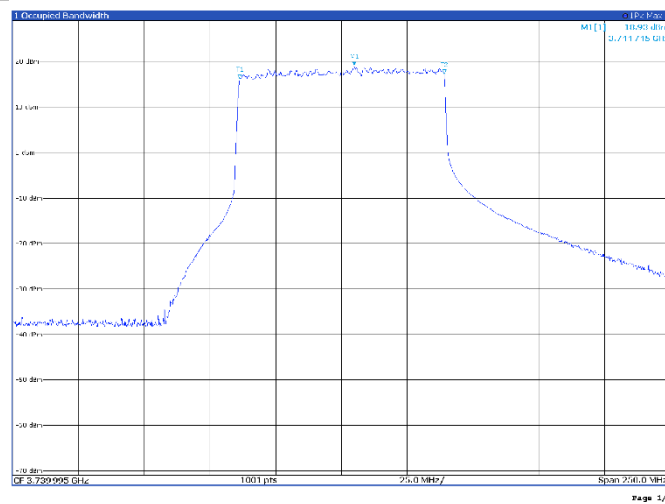
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1			3.84475 GHz	18.79 dBm	Dev Pwr	77.855824489 MHz
T1			3.83999 GHz	-15.99 dBm	Occ. BW Centroid	3.840000000 GHz
F1			3.85001 GHz	-15.99 dBm	Occ. BW Centroid	3.840000000 GHz

TM3p1, 80 MHz, high channel



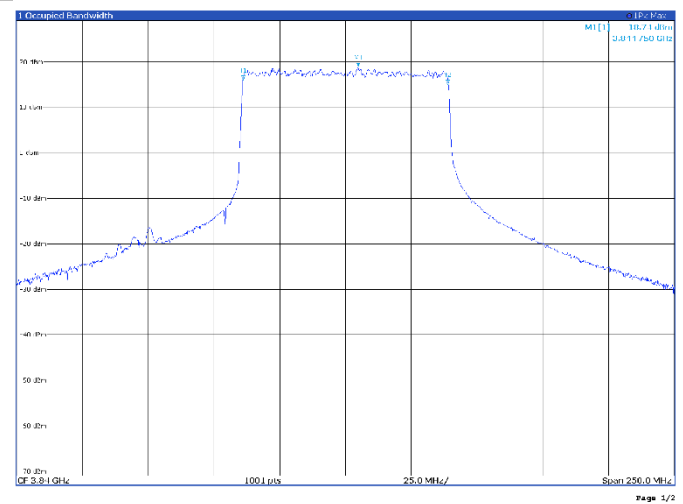
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1			3.91626 GHz	18.49 dBm	Dev Pwr	77.669632329 MHz
T1			3.90999 GHz	-15.99 dBm	Occ. BW Centroid	3.910000000 GHz
F1			3.92250 GHz	-15.99 dBm	Occ. BW Centroid	3.910000000 GHz

TM3p1a, 80 MHz, low channel



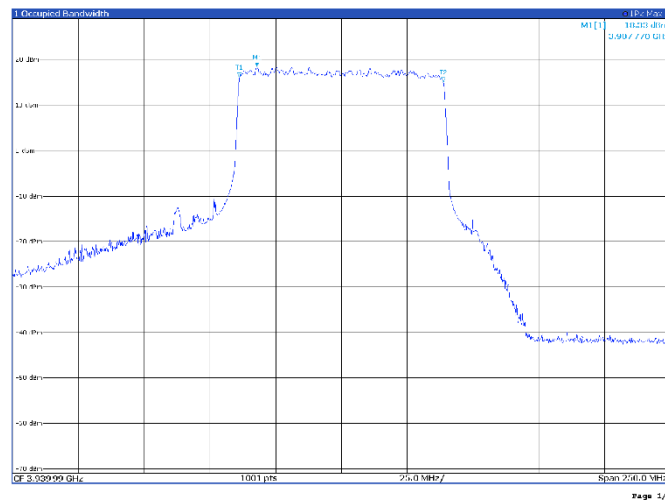
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1			3.744745 GHz	18.93 dBm	Dev Pwr	77.770477309 MHz
T1			3.739995 GHz	-15.99 dBm	Occ. BW Centroid	3.740000000 GHz
F1			3.750005 GHz	-15.99 dBm	Occ. BW Centroid	3.740000000 GHz

TM3p1a, 80 MHz, mid channel



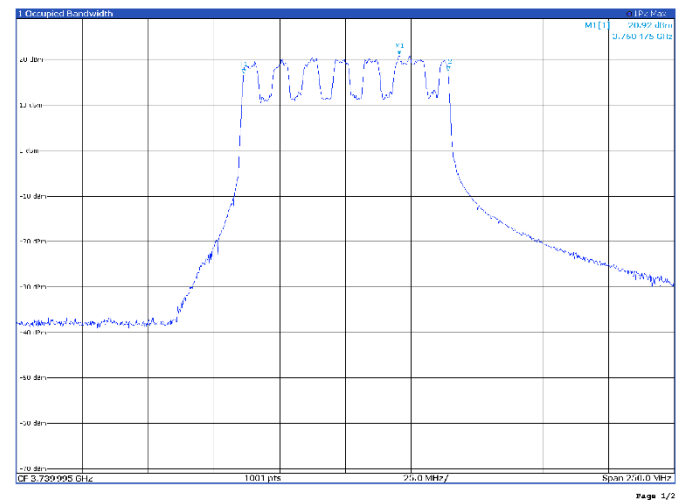
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1			3.84475 GHz	18.74 dBm	Dev Pwr	77.787932463 MHz
T1			3.83999 GHz	-15.99 dBm	Occ. BW Centroid	3.840000000 GHz
F1			3.85001 GHz	-15.99 dBm	Occ. BW Centroid	3.840000000 GHz

TM3p1a, 80 MHz, high channel



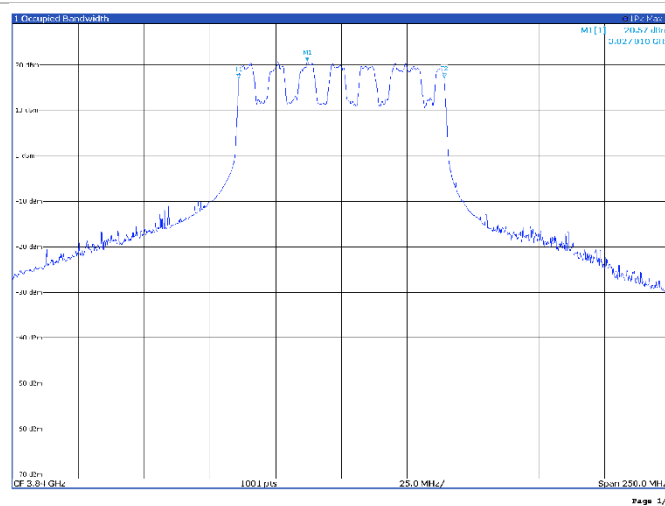
Type	Ref	Trc	Value	Unit	Function	Function Result
M1			3.99777 GHz			77.532309043 MHz
T1			18.35 dBm			2.930929227 GHz
T2			11.10 dBm			2.930929227 GHz

TM3p3, 80 MHz, low channel



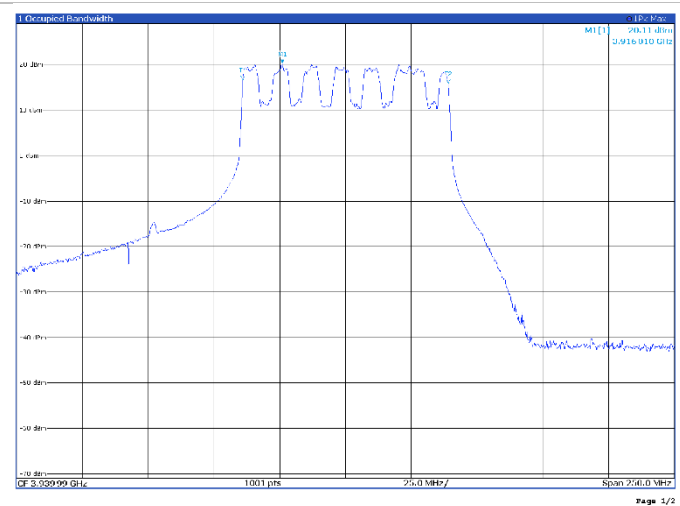
Type	Ref	Trc	Value	Unit	Function	Function Result
M1			3.760475 GHz			77.457855128 MHz
T1			20.92 dBm			2.780150016 GHz
T2			17.90 dBm			183.1157441 GHz

TM3p3, 80 MHz, mid channel



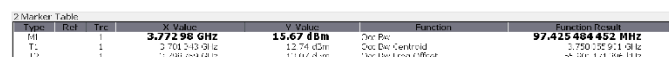
Type	Ref	Trc	Value	Unit	Function	Function Result
M1			3.82701 GHz			78.049083444 MHz
T1			20.57 dBm			2.940206527 GHz
T2			17.90 dBm			2.940206527 GHz

TM3p3, 80 MHz, high channel

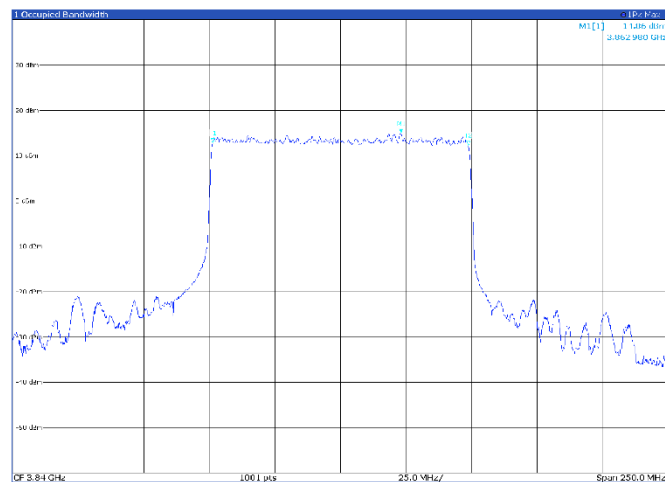


Type	Ref	Trc	Value	Unit	Function	Function Result
M1			3.91601 GHz			77.977627314 MHz
T1			20.11 dBm			2.939981211 GHz
T2			17.90 dBm			2.939981211 GHz

100 MHz



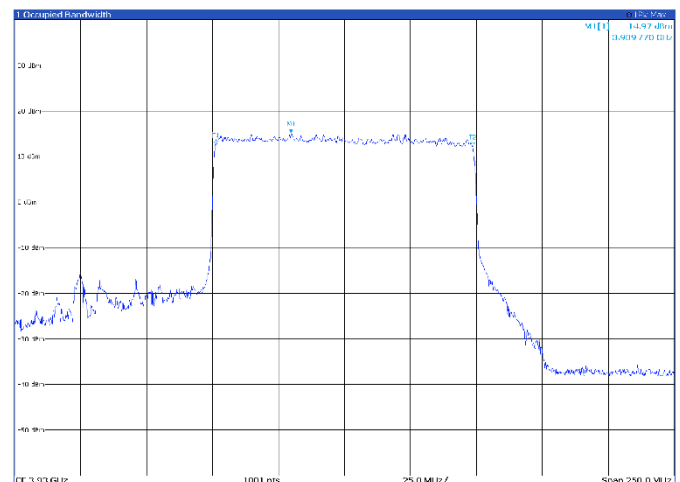
TM3p1, 100 MHz, mid channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.86298 GHz	14.86 dBm	Off Pic	97.531771987 MHz
T1	1		2.791100 GHz	11.89 dBm	On Pic Centroid	2.791100 GHz
T2	1		3.86298 GHz	12.40 dBm	On Pic max Offset	3.86298 GHz

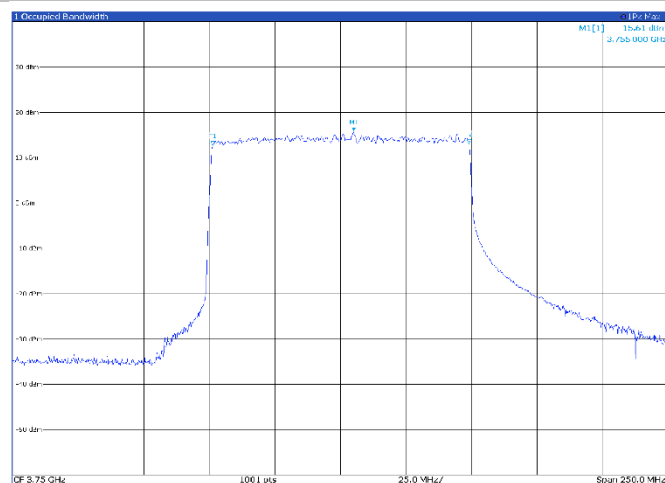
TM3p1, 100 MHz, high channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.90977 GHz	14.97 dBm	Off Pic	97.360218918 MHz
T1	1		3.881172 GHz	12.77 dBm	On Pic Centroid	3.881172 GHz
T2	1		3.90977 GHz	12.43 dBm	On Pic max Offset	3.90977 GHz

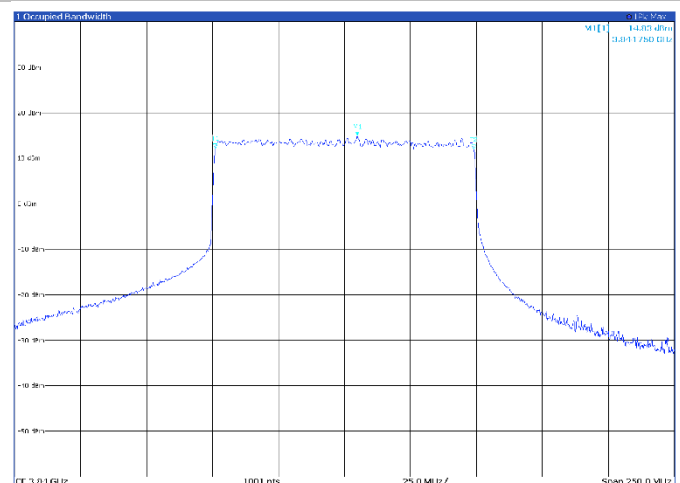
TM3p1a, 100 MHz, low channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.755 GHz	15.61 dBm	Off Pic	97.576870376 MHz
T1	1		2.791100 GHz	11.89 dBm	On Pic Centroid	2.791100 GHz
T2	1		3.755 GHz	11.00 dBm	On Pic max Offset	3.755 GHz

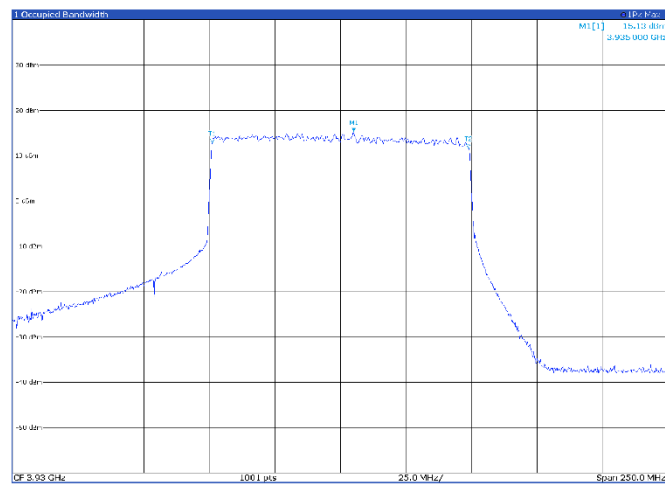
TM3p1a, 100 MHz, mid channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.84475 GHz	14.83 dBm	Off Pic	97.715648578 MHz
T1	1		3.791149 GHz	12.21 dBm	On Pic Centroid	3.791149 GHz
T2	1		3.84475 GHz	11.60 dBm	On Pic max Offset	3.84475 GHz

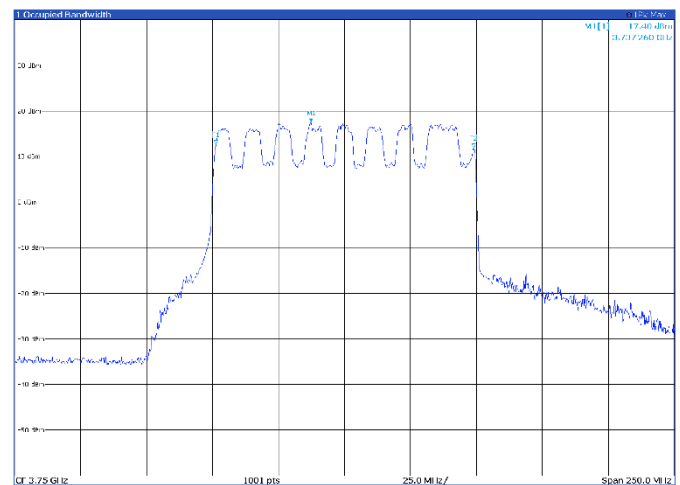
TM3p1a, 100 MHz, high channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.935 GHz	15.13 dBm	Dec BW	97.546 913 482 MHz
T1	1		3.935 143 GHz	11.73 dBm	Dec BW Centroid	3.929 915 270 GHz
T2	1		3.935 143 GHz	11.73 dBm	Dec BW Offset	3.929 915 270 GHz

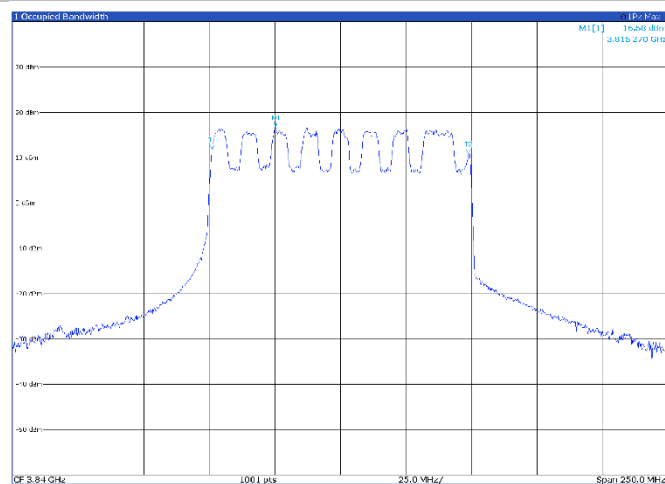
TM3p3, 100 MHz, low channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.737 26 GHz	17.40 dBm	Dec BW	97.542 707 955 MHz
T1	1		3.737 26 GHz	12.64 dBm	Dec BW Centroid	3.730 181 772 GHz
T2	1		3.737 26 GHz	12.64 dBm	Dec BW Offset	3.730 181 772 GHz

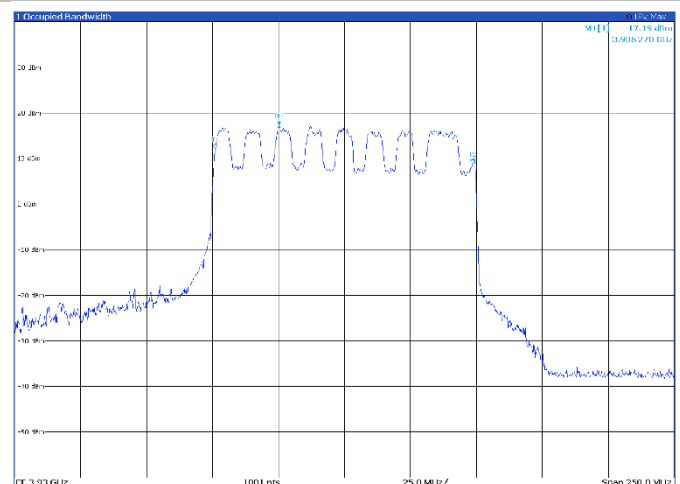
TM3p3, 100 MHz, mid channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.815 27 GHz	16.58 dBm	Dec BW	97.625 316 23 MHz
T1	1		3.815 27 GHz	11.73 dBm	Dec BW Centroid	3.809 919 102 GHz
T2	1		3.815 27 GHz	11.73 dBm	Dec BW Offset	3.809 919 102 GHz

TM3p3, 100 MHz, high channel



Page 1/2

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.905 27 GHz	17.19 dBm	Dec BW	97.362 738 064 MHz
T1	1		3.905 27 GHz	11.96 dBm	Dec BW Centroid	3.909 931 417 GHz
T2	1		3.905 27 GHz	11.96 dBm	Dec BW Offset	3.909 931 417 GHz

8.3 FCC §27.53 (h)(3) 26 dB Occupied Bandwidth

8.3.1 Definitions and limits

(h) AWS emission 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	August 19, 2024	Temperature	22 °C
Test end date	September 19, 2024	Air pressure	1001 mbar
Test engineer	D. Guarnone	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 n77: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM1.1	3709.995	20.02
N77	20 MHz	TM1.1	3840.000	20.02
N77	20 MHz	TM1.1	3970.000	20.02
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM3p1	3709.995	20.02
N77	20 MHz	TM3p1	3840.000	20.06
N77	20 MHz	TM3p1	3970.000	20.02
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM3p1a	3709.995	20.02
N77	20 MHz	TM3p1a	3840.000	19.98
N77	20 MHz	TM3p1a	3970.000	19.98
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM3p3	3709.995	19.94
N77	20 MHz	TM3p3	3840.000	20.02
N77	20 MHz	TM3p3	3970.000	20.02
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM1.1	3720.0	40.28
N77	40 MHz	TM1.1	3840.0	40.28
N77	40 MHz	TM1.1	3960.0	40.28
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM3p1	3720.0	40.44
N77	40 MHz	TM3p1	3840.0	40.44
N77	40 MHz	TM3p1	3960.0	40.44
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM3p1a	3720.0	40.36
N77	40 MHz	TM3p1a	3840.0	40.36
N77	40 MHz	TM3p1a	3960.0	40.36
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM3p3	3720.0	40.12
N77	40 MHz	TM3p3	3840.0	40.68
N77	40 MHz	TM3p3	3960.0	40.36
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM1.1	3729.990	65.93
N77	60 MHz	TM1.1	3840.000	65.57
N77	60 MHz	TM1.1	3949.995	64.25
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM3p1	3729.990	61.38
N77	60 MHz	TM3p1	3840.000	61.50
N77	60 MHz	TM3p1	3949.995	61.49

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM3p1a	3729.990	63.42
N77	60 MHz	TM3p1a	3840.000	63.78
N77	60 MHz	TM3p1a	3949.995	62.58
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM3p3	3729.990	63.18
N77	60 MHz	TM3p3	3840.000	63.78
N77	60 MHz	TM3p3	3949.995	62.45
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM1.1	3739.995	87.41
N77	80 MHz	TM1.1	3840.000	85.41
N77	80 MHz	TM1.1	3939.990	84.42
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM3p1	3739.995	83.92
N77	80 MHz	TM3p1	3840.000	81.9
N77	80 MHz	TM3p1	3939.990	82.7
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM3p1a	3739.995	81.92
N77	80 MHz	TM3p1a	3840.000	82.67
N77	80 MHz	TM3p1a	3939.990	82.17
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM3p3	3739.995	83.42
N77	80 MHz	TM3p3	3840.000	85.40
N77	80 MHz	TM3p3	3939.990	83.17
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM1.1	3750.0	104.40
N77	100 MHz	TM1.1	3840.0	107.14
N77	100 MHz	TM1.1	3930.0	103.90
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM3p1	3750.0	105.64
N77	100 MHz	TM3p1	3840.0	102.15
N77	100 MHz	TM3p1	3930.0	101.65
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM3p1a	3750.0	105.64
N77	100 MHz	TM3p1a	3840.0	106.14
N77	100 MHz	TM3p1a	3930.0	101.90
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM3p3	3750.0	102.65
N77	100 MHz	TM3p3	3840.0	102.65
N77	100 MHz	TM3p3	3930.0	102.90

Band n77: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM1.1	3709.995	20.02
N77	20 MHz	TM1.1	3840.000	20.02
N77	20 MHz	TM1.1	3970.000	20.02
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM3p1	3709.995	19.98
N77	20 MHz	TM3p1	3840.000	20.06
N77	20 MHz	TM3p1	3970.000	20.02
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM3p1a	3709.995	19.94
N77	20 MHz	TM3p1a	3840.000	20.02
N77	20 MHz	TM3p1a	3970.000	19.98
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	20 MHz	TM3p3	3709.995	19.98
N77	20 MHz	TM3p3	3840.000	19.98
N77	20 MHz	TM3p3	3970.000	20.02
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM1.1	3720.0	40.44
N77	40 MHz	TM1.1	3840.0	40.28
N77	40 MHz	TM1.1	3960.0	40.28
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM3p1	3720.0	40.52
N77	40 MHz	TM3p1	3840.0	40.44
N77	40 MHz	TM3p1	3960.0	40.44
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM3p1a	3720.0	40.52
N77	40 MHz	TM3p1a	3840.0	40.44
N77	40 MHz	TM3p1a	3960.0	40.52
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	40 MHz	TM3p3	3720.0	40.28
N77	40 MHz	TM3p3	3840.0	40.76
N77	40 MHz	TM3p3	3960.0	40.36
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM1.1	3729.990	66.65
N77	60 MHz	TM1.1	3840.000	65.09
N77	60 MHz	TM1.1	3949.995	64.73
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM3p1	3729.990	61.50
N77	60 MHz	TM3p1	3840.000	61.38
N77	60 MHz	TM3p1	3949.995	61.38

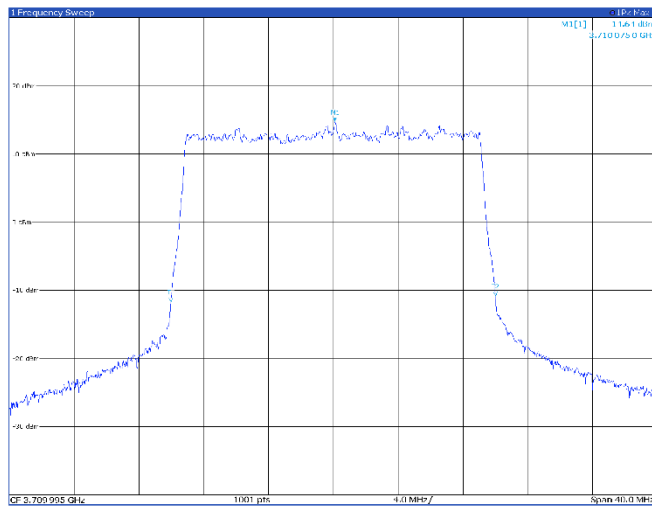
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM3p1a	3729.990	63.54
N77	60 MHz	TM3p1a	3840.000	63.18
N77	60 MHz	TM3p1a	3949.995	62.94
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	60 MHz	TM3p3	3729.990	62.70
N77	60 MHz	TM3p3	3840.000	62.94
N77	60 MHz	TM3p3	3949.995	62.22
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM1.1	3739.995	83.92
N77	80 MHz	TM1.1	3840	85.16
N77	80 MHz	TM1.1	3939.99	84.92
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM3p1	3739.995	81.92
N77	80 MHz	TM3p1	3840	81.67
N77	80 MHz	TM3p1	3939.99	81.67
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM3p1a	3739.995	82.17
N77	80 MHz	TM3p1a	3840	83.17
N77	80 MHz	TM3p1	3939.99	81.67
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	80 MHz	TM3p3	3739.995	83.42
N77	80 MHz	TM3p3	3840	85.66
N77	80 MHz	TM3p3	3939.99	85.66
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM1.1	3750.0	103.90
N77	100 MHz	TM1.1	3840.0	106.14
N77	100 MHz	TM1.1	3930.0	103.65
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM3p1	3750.0	105.64
N77	100 MHz	TM3p1	3840.0	101.90
N77	100 MHz	TM3p1	3930.0	101.65
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM3p1a	3750.0	106.39
N77	100 MHz	TM3p1a	3840.0	105.89
N77	100 MHz	TM3p1a	3930.0	102.15
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
N77	100 MHz	TM3p3	3750.0	102.90
N77	100 MHz	TM3p3	3840.0	102.40
N77	100 MHz	TM3p3	3930.0	102.90

Antenna port 1

Band n77 – 26 dB Occupied Bandwidth Antenna port 1

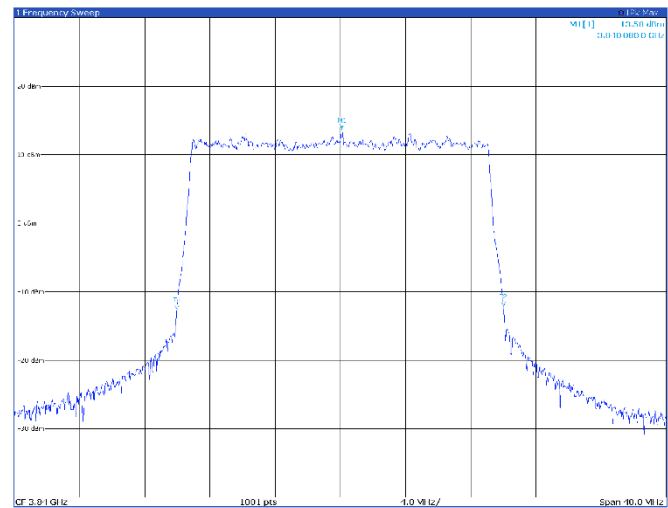
20 MHz

TM1.1, 20 MHz, low channel



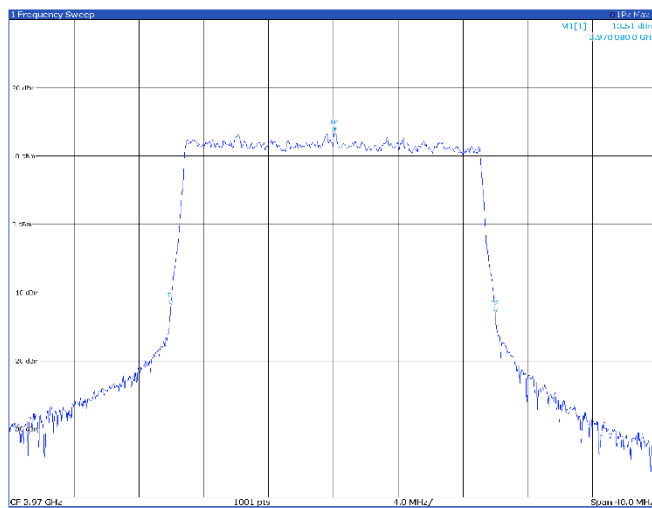
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.710075 GHz	14.64 dBm	nB	20.02 MHz
M1	1		3.709995 GHz	-11.70 dBm	nB down BW	
M1	1		3.730005 GHz	-11.70 dBm	nB down BW	

TM1.1, 20 MHz, mid channel



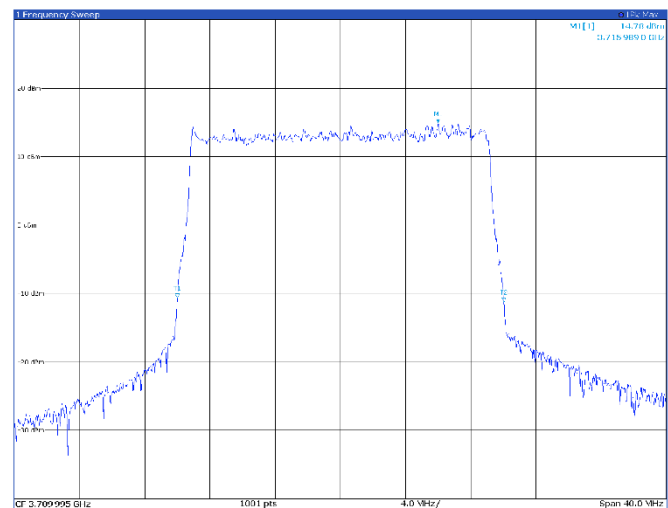
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.84008 GHz	13.58 dBm	nB	20.02 MHz
M1	1		3.82857 GHz	-12.27 dBm	nB down BW	
M1	1		3.84959 GHz	-12.05 dBm	nB down BW	

TM1.1, 20 MHz, high channel



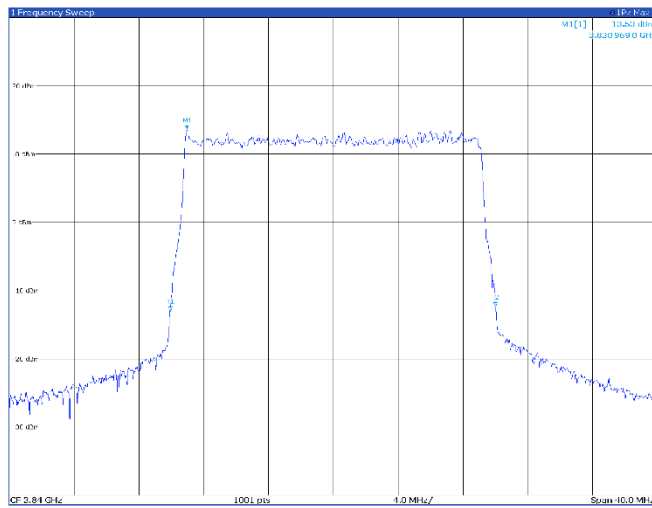
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.97008 GHz	13.51 dBm	nB	20.02 MHz
M1	1		3.95957 GHz	-11.77 dBm	nB down BW	
M1	1		3.98059 GHz	-11.77 dBm	nB down BW	

TM3p1, 20 MHz, low channel



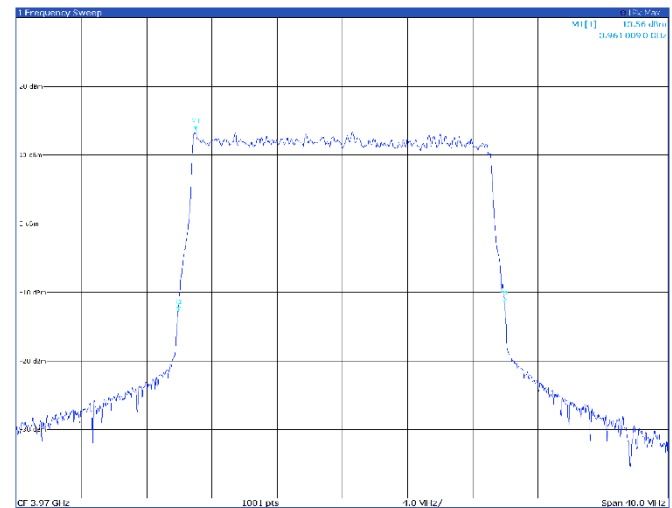
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		3.715989 GHz	14.76 dBm	nB	20.02 MHz
M1	1		3.70502 GHz	-10.75 dBm	nB down BW	
M1	1		3.72695 GHz	-11.25 dBm	nB down BW	

TM3p1, 20 MHz, mid channel



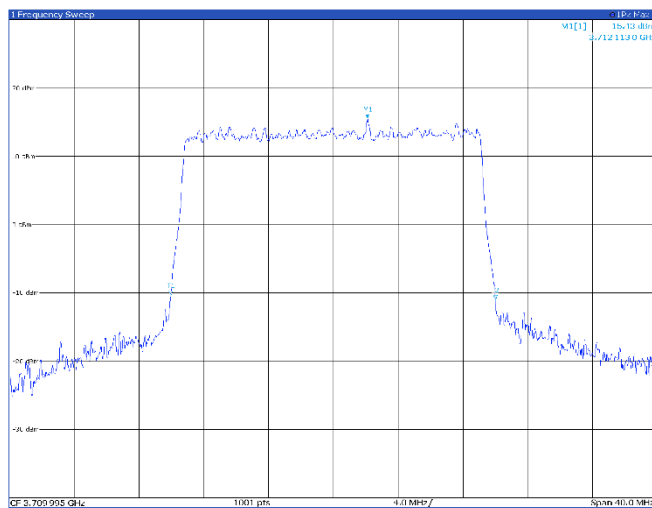
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.830969 GHz	13.53 dBm	nB	20.06 MHz
M1	1		3.830969 GHz	-12.02 dBm	mB down BW	19.98 MHz
M2	1		3.830969 GHz	-11.98 dBm	C carrier	19.98 MHz

TM3p1, 20 MHz, high channel



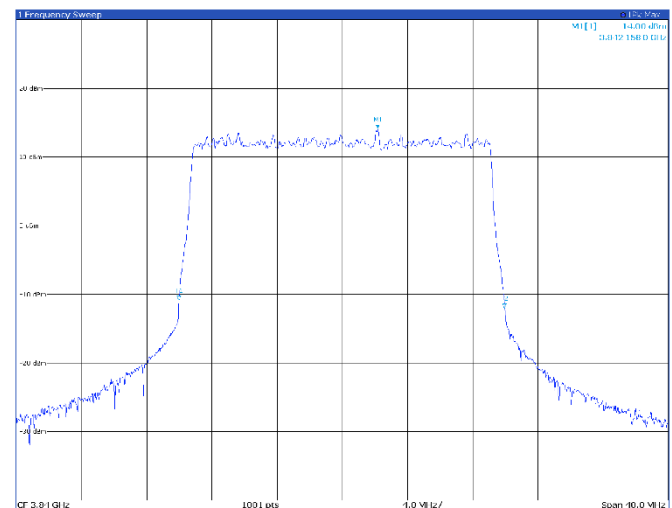
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.961009 GHz	13.56 dBm	nB	20.02 MHz
M1	1		3.961009 GHz	-12.02 dBm	mB down BW	19.98 MHz
M2	1		3.961009 GHz	-11.98 dBm	C carrier	19.98 MHz

TM3p1a, 20 MHz, low channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.712113 GHz	13.43 dBm	nB	20.02 MHz
M1	1		3.712113 GHz	-12.02 dBm	mB down BW	19.98 MHz
M2	1		3.712113 GHz	-11.98 dBm	C carrier	19.98 MHz

TM3p1a, 20 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.842158 GHz	14.00 dBm	nB	20.01 MHz
M1	1		3.842158 GHz	-12.02 dBm	mB down BW	19.98 MHz
M2	1		3.842158 GHz	-11.98 dBm	C carrier	19.98 MHz