

RADIO TEST REPORT

REP068634

Date of issue: December 23, 2024

Applicant:

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

Product:

RPM-A61L1-7E

Model:

7847588-00

Model variant:

None

FCC ID:

XS5-RPML2-B121314

IC Registration number:

NA

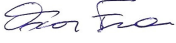
Specifications:

◆ **FCC 47 CFR Part 27**

Miscellaneous Wireless Communications Services

Lab and test locations

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Reviewed by	D. Guarnone
Review date	December 23, 2024
Signature	 Firmato digitalmente da Guarnone Daniele

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.

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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 27	Miscellaneous Wireless Communications Services
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1.3 Statement of compliance

In the configuration tested, the EUT was found compliant.

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

See "Summary of test results" for full details.

1.4 Exclusions

None

1.5 Test report revision history

Revision #	Details of changes made to test report
REP068634	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(b)(4)	Output power at RF antenna connector	Pass
§27.50(d)(5)	Peak to average power ratio	Pass
§27.53(m)	Conducted spurious emissions	Pass
§27.53(m)	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	November 7, 2024
Nemko sample ID number	PRJ00630770006

3.2 EUT information

Product name	RPM-A61L1-7E
Model	7847588-00
Part Number	7847588-00
Serial number	SZRMBG24230045

3.3 Technical information

Frequency band	n13: 746 - 756 MHz
RF power Max (W), Conducted	max Port 1 = 23.1 dBm (0.20 W) – max Port 2 = 23.0 dBm (0.20 W); max comb. Port 1 + Port 2 = 26.0 dBm (0.40 W) @ 751 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	3.7 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

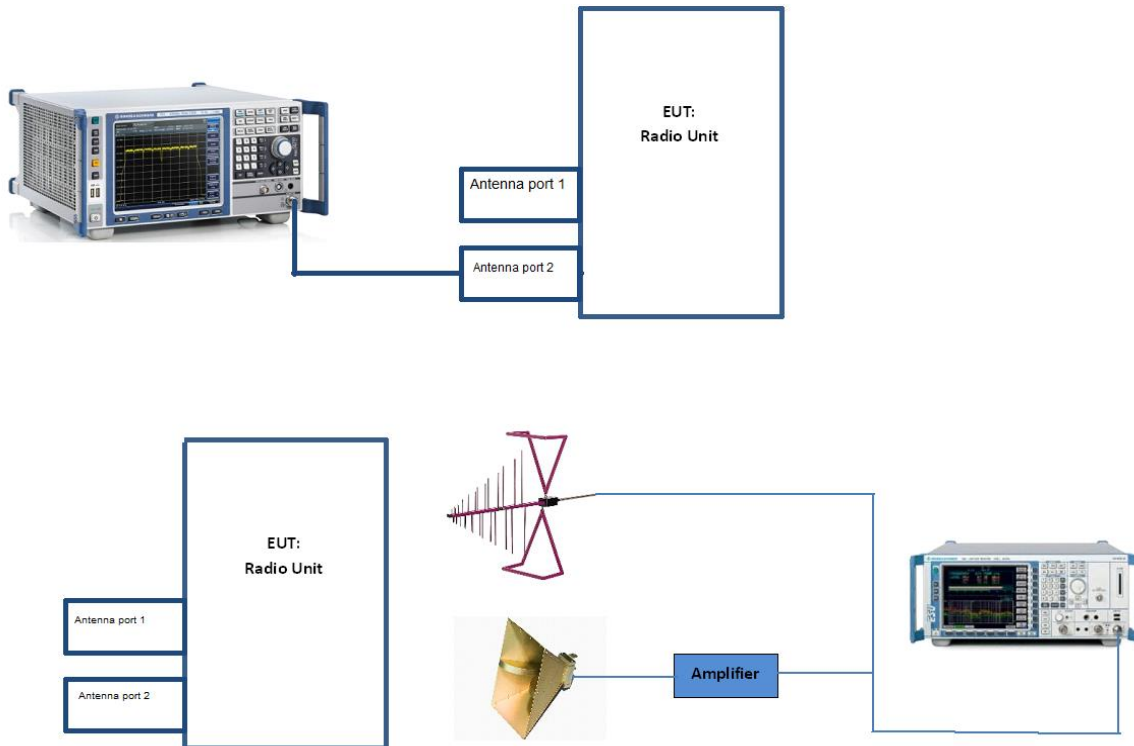


Figure 3.6-1: Setup diagram

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

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

The following instruments are used to monitor the environmental conditions:

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

5.2 Power supply range

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

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

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

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

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

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

Hereafter Nemko's measurement uncertainties are reported:

EUT	Type	Test	Range	Measurement Uncertainty	Notes
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)
		Carrier power RF Output Power	0.009 MHz ÷ 30 MHz	1.1 dB	(1)
			30 MHz ÷ 18 GHz	1.5 dB	(1)
			18 MHz ÷ 40 GHz	3.0 dB	(1)
			5 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	November 20, 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 n13:

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	November 20, 2024	Temperature	22 °C
Test end date	December 13, 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 n13: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM1.1	748.5	4.49
n13	5 MHz	TM1.1	751.0	4.49
n13	5 MHz	TM1.1	753.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM3p1	748.5	4.49
n13	5 MHz	TM3p1	751.0	4.49
n13	5 MHz	TM3p1	753.5	4.48

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM3p1a	748.5	4.50
n13	5 MHz	TM3p1a	751.0	4.49
n13	5 MHz	TM3p1a	753.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM3p3	748.5	4.51
n13	5 MHz	TM3p3	751.0	4.52
n13	5 MHz	TM3p3	753.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM1.1	n/a	-
n13	10 MHz	TM1.1	751.0	9.30
n13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM3p1	n/a	-
n13	10 MHz	TM3p1	751.0	9.29
n13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM3p1a	n/a	-
n13	10 MHz	TM3p1a	751.0	9.31
n13	10 MHz	TM3p1a	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM3p3	n/a	-
n13	10 MHz	TM3p3	751.0	9.14
n13	10 MHz	TM3p3	n/a	-

Band n13: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM1.1	748.5	4.48
n13	5 MHz	TM1.1	751.0	4.48
n13	5 MHz	TM1.1	753.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM3p1	748.5	4.49
n13	5 MHz	TM3p1	751.0	4.47
n13	5 MHz	TM3p1	753.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM3p1a	748.5	4.49
n13	5 MHz	TM3p1a	751.0	4.48
n13	5 MHz	TM3p1a	753.5	4.49

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	5 MHz	TM3p3	748.5	4.50
n13	5 MHz	TM3p3	751.0	4.52
n13	5 MHz	TM3p3	753.5	4.50

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM1.1	n/a	-
n13	10 MHz	TM1.1	751.0	9.31
n13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM3p1	n/a	-
n13	10 MHz	TM3p1	751.0	9.29
n13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM3p1a	n/a	-
n13	10 MHz	TM3p1a	751.0	9.32
n13	10 MHz	TM3p1a	n/a	-

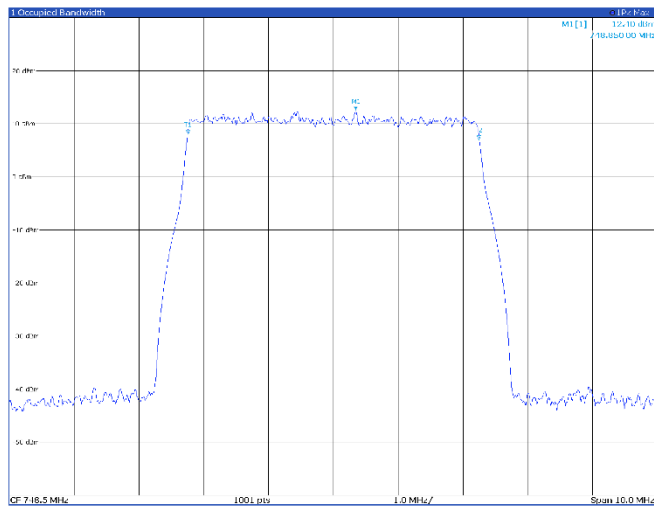
Band	OBW Declared	Modulation	Channel (MHz)	99% OBW (MHz)
n13	10 MHz	TM3p3	n/a	-
n13	10 MHz	TM3p3	751.0	9.15
n13	10 MHz	TM3p3	n/a	-

Antenna port 1

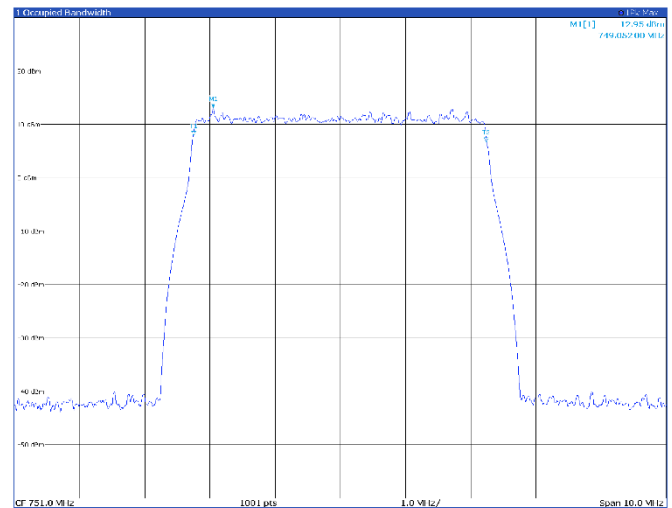
Band n13

5 MHz

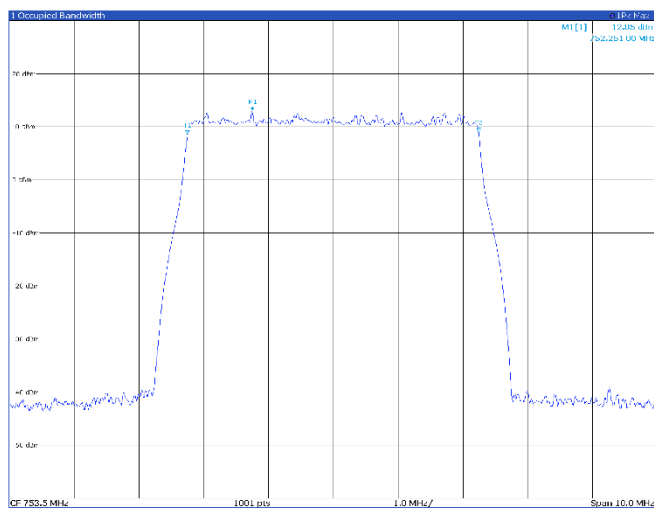
TM1.1, 5 MHz, low channel



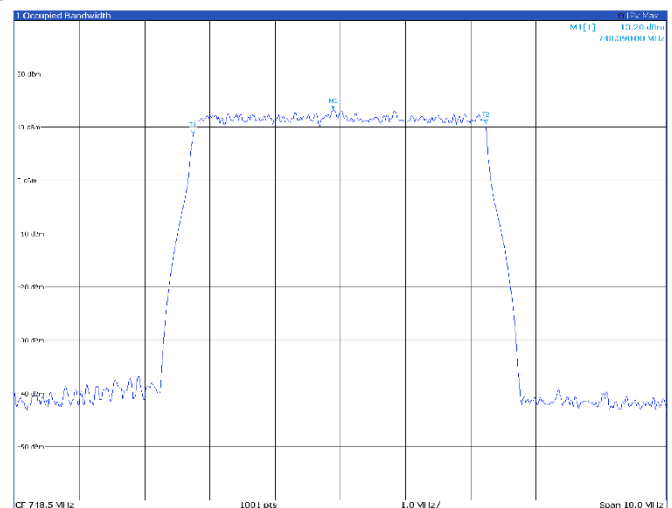
TM1.1, 5 MHz, mid channel



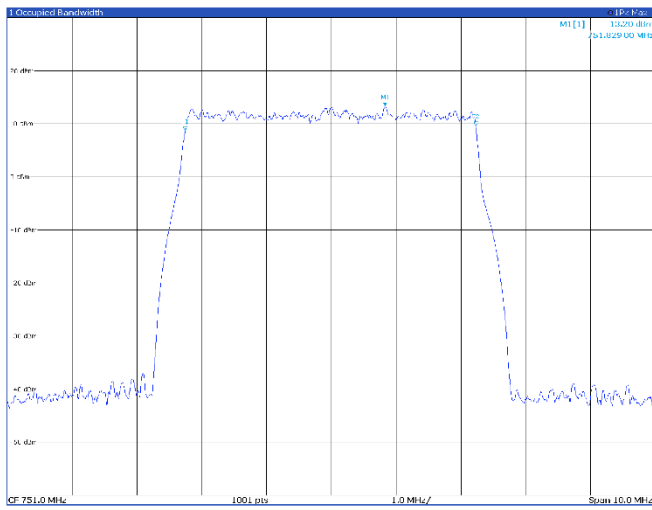
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

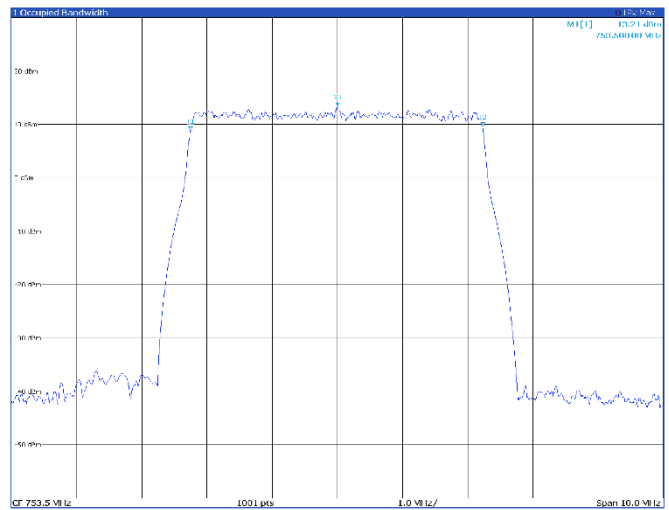


TM3p1, 5 MHz, mid channel



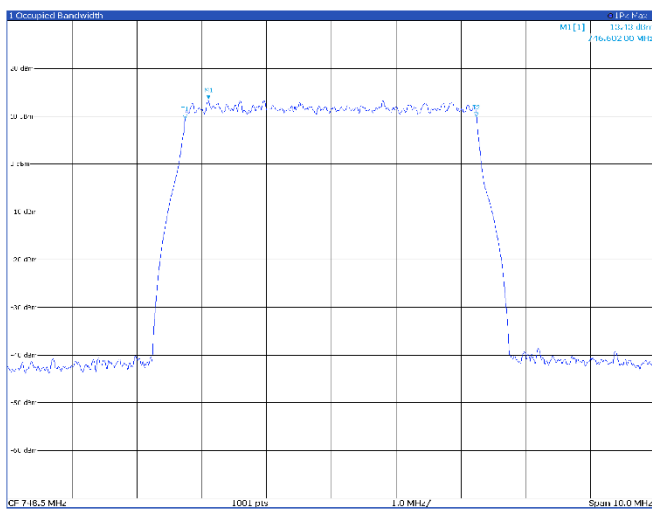
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		751.829 MHz	13.20 dBm	Occ BW	4.487 596 145 MHz
M1	1		742.729 00 MHz	0.64 dBm	Occ BW Control	750.960 910 421 MHz
M2	1		753.927 98 MHz	9.44 dBm	Occ BW Limit Offset	10.327 250 231 MHz

TM3p1, 5 MHz, high channel



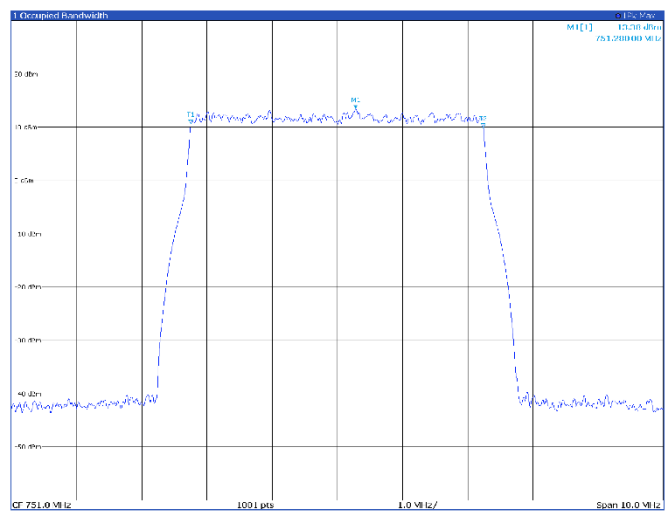
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		753.5 MHz	13.21 dBm	Occ BW	4.463 649 501 MHz
M1	1		751.215 15 MHz	0.72 dBm	Occ BW Control	753.487 371 031 MHz
M2	1		755.729 18 MHz	9.44 dBm	Occ BW Limit Offset	11.120 947 302 131 MHz

TM3p1a, 5 MHz, low channel



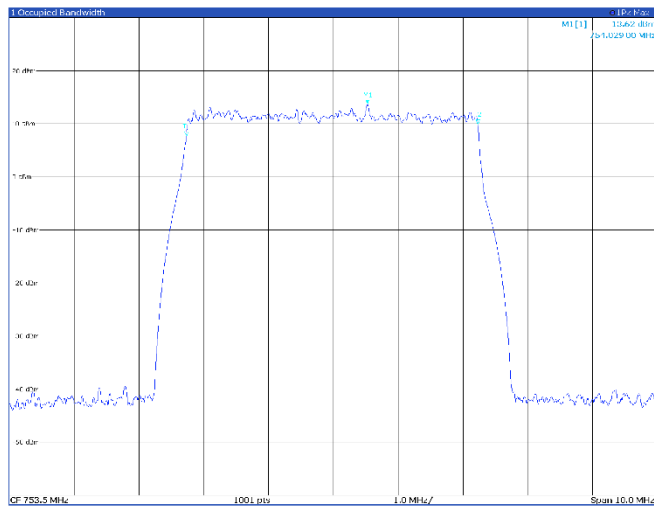
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		746.602 MHz	13.43 dBm	Occ BW	4.499 347 158 MHz
M1	1		746.237 20 MHz	0.62 dBm	Occ BW Control	746.887 200 000 MHz
M2	1		746.967 98 MHz	9.44 dBm	Occ BW Limit Offset	11.120 947 302 131 MHz

TM3p1a, 5 MHz, mid channel



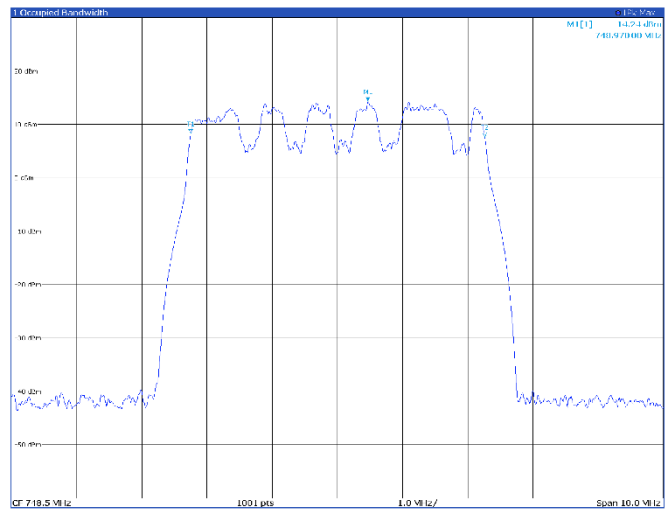
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		751.28 MHz	13.38 dBm	Occ BW	4.485 377 218 MHz
M1	1		746.749 50 MHz	0.52 dBm	Occ BW Control	750.996 216 711 MHz
M2	1		755.819 58 MHz	9.44 dBm	Occ BW Limit Offset	11.120 947 302 131 MHz

TM3p1a, 5 MHz, high channel



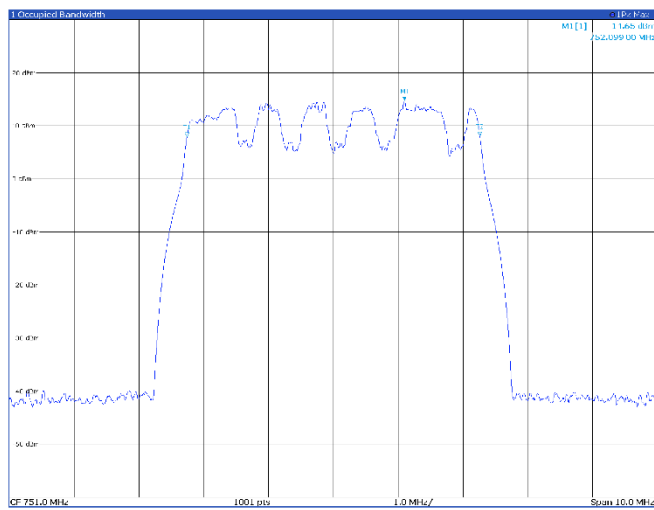
Type	Ref	Trc	X Value	Y Value	Corr Sw	Function	Function Result
M1	1		754.029 MHz	13.62 dBm	Off	Occ Sw	4.492145906 MHz
M1	1		754.029 MHz	13.62 dBm	Off	Occ Sw	754.029 MHz
M1	1		754.029 MHz	13.62 dBm	Off	Occ Sw	754.029 MHz

TM3p3, 5 MHz, low channel



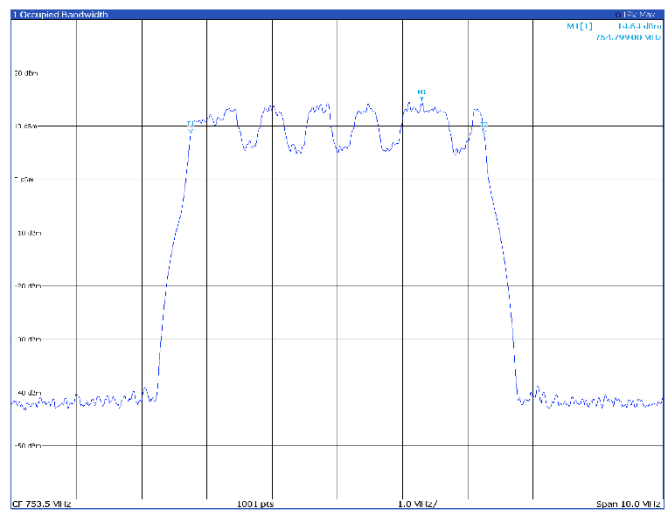
Type	Ref	Trc	X Value	Y Value	Corr Sw	Function	Function Result
M1	1		749.97 MHz	14.24 dBm	Off	Occ Sw	4.506172106 MHz
M1	1		749.97 MHz	14.24 dBm	Off	Occ Sw	749.97 MHz
M1	1		749.97 MHz	14.24 dBm	Off	Occ Sw	749.97 MHz

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Corr Sw	Function	Function Result
M1	1		752.099 MHz	14.65 dBm	Off	Occ Sw	4.516168131 MHz
M1	1		752.099 MHz	14.65 dBm	Off	Occ Sw	752.099 MHz
M1	1		752.099 MHz	14.65 dBm	Off	Occ Sw	752.099 MHz

TM3p3, 5 MHz, high channel

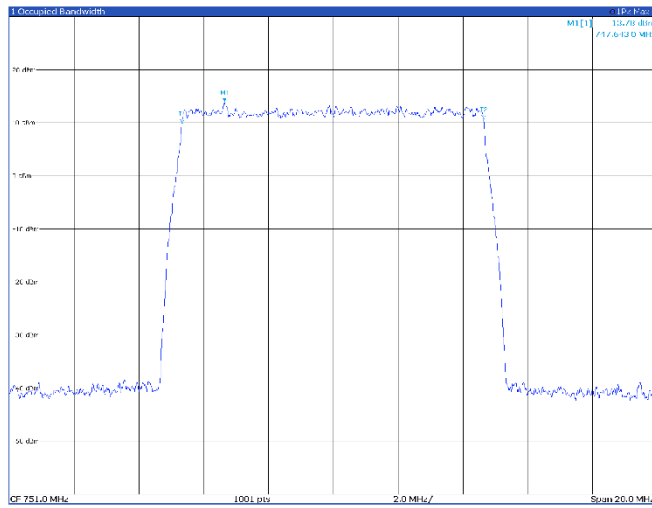


Type	Ref	Trc	X Value	Y Value	Corr Sw	Function	Function Result
M1	1		754.799 MHz	14.64 dBm	Off	Occ Sw	4.496006844 MHz
M1	1		754.799 MHz	14.64 dBm	Off	Occ Sw	754.799 MHz
M1	1		754.799 MHz	14.64 dBm	Off	Occ Sw	754.799 MHz

Band n13

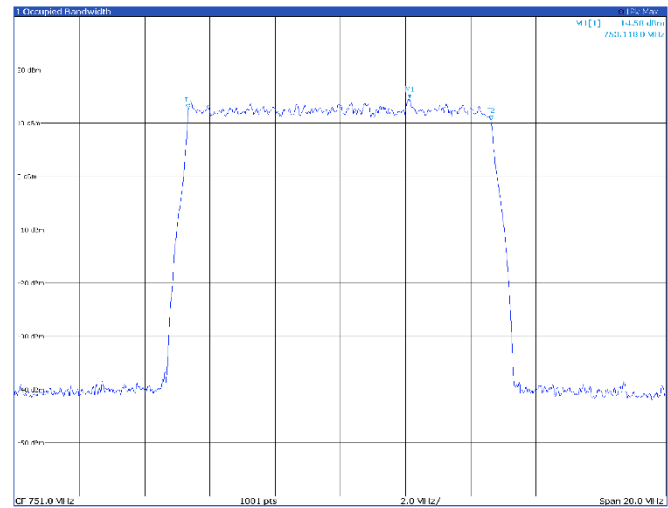
10 MHz

TM1.1, 10 MHz, mid channel



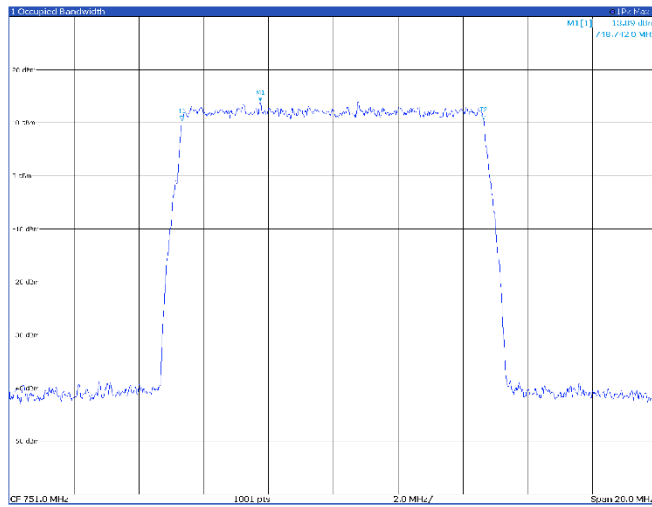
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		747.643 MHz	13.78 dBm	Occ Sw	Occ Sw Control	9.301 594 456 MHz
M1	1		748.224 MHz	10.25 dBm	Occ Sw	Occ Sw Control	750.995 6346 22 MHz
M1	1		748.224 MHz	10.25 dBm	Occ Sw	Occ Sw Control	18.265 948 22 MHz

TM3p1, 10 MHz, mid channel



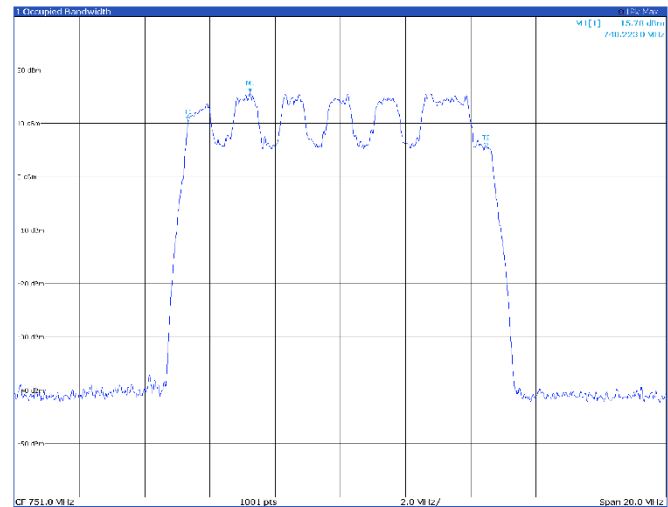
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		753.118 MHz	14.58 dBm	Occ Sw	Occ Sw Control	9.286 504 605 MHz
M1	1		753.118 MHz	14.58 dBm	Occ Sw	Occ Sw Control	750.979 979 422 MHz
M1	1		753.118 MHz	14.58 dBm	Occ Sw	Occ Sw Control	29.135 527 220 MHz

TM3p1a, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		748.742 MHz	13.89 dBm	Occ Sw	Occ Sw Control	9.308 505 315 MHz
M1	1		748.742 MHz	10.25 dBm	Occ Sw	Occ Sw Control	750.995 6346 22 MHz
M1	1		748.742 MHz	10.25 dBm	Occ Sw	Occ Sw Control	18.265 948 22 MHz

TM3p3, 10 MHz, mid channel



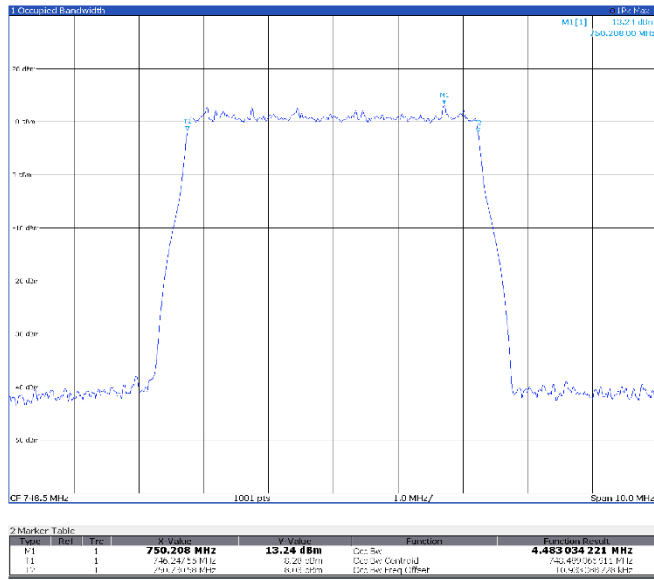
Type	Ref	Trc	X Value	Y Value	Occ Sw	Function	Function Result
M1	1		748.223 MHz	15.78 dBm	Occ Sw	Occ Sw Control	9.141 151 974 MHz
M1	1		748.223 MHz	10.25 dBm	Occ Sw	Occ Sw Control	750.995 6346 22 MHz
M1	1		748.223 MHz	10.25 dBm	Occ Sw	Occ Sw Control	18.265 948 22 MHz

Antenna port 2

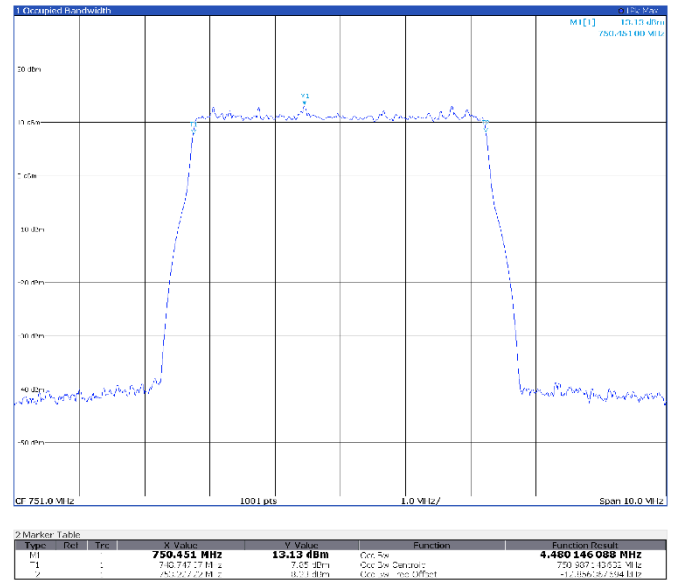
Band n13

5 MHz

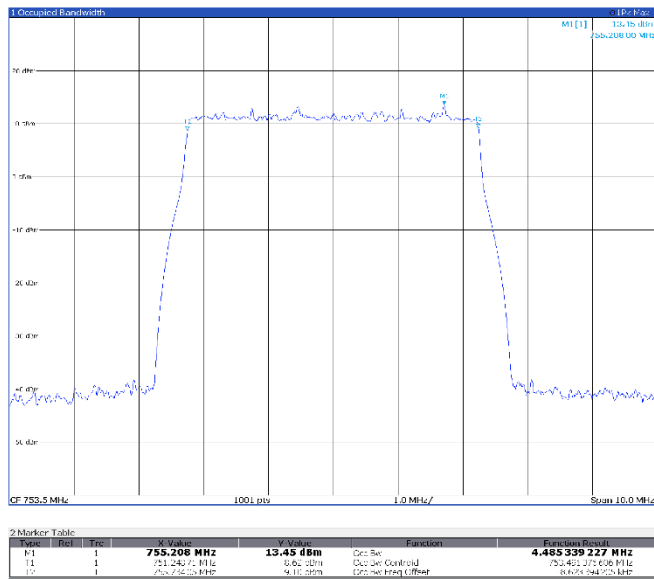
TM1.1, 5 MHz, low channel



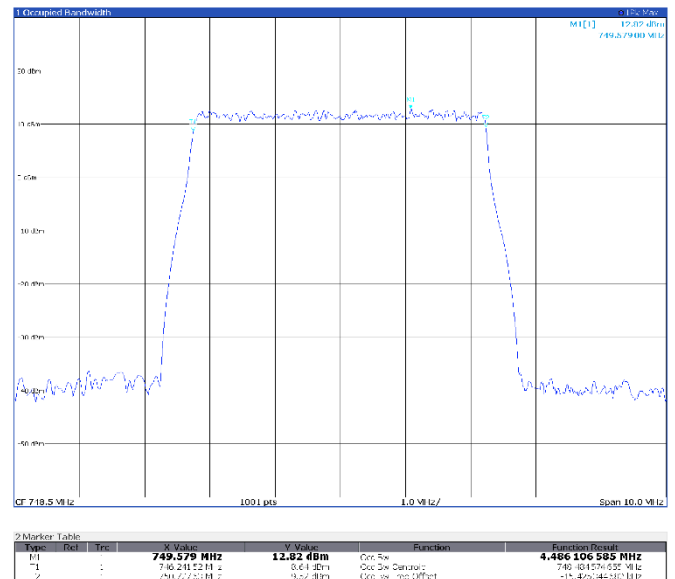
TM1.1, 5 MHz, mid channel



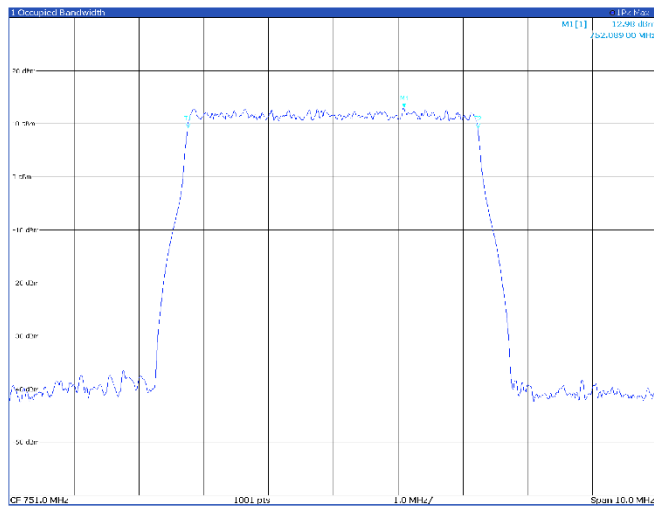
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

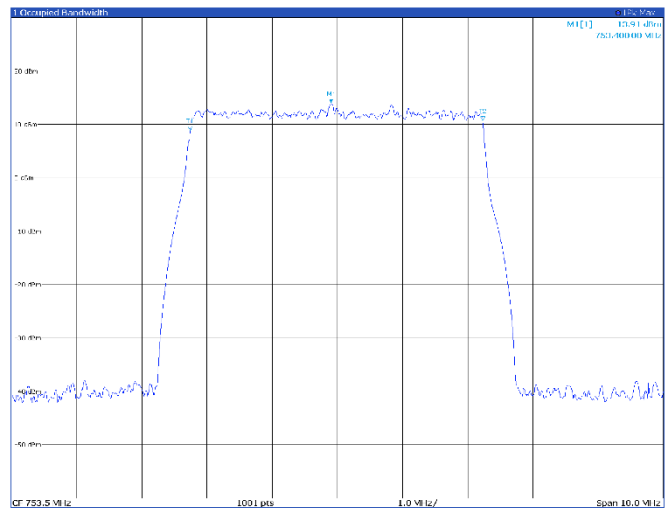


TM3p1, 5 MHz, mid channel



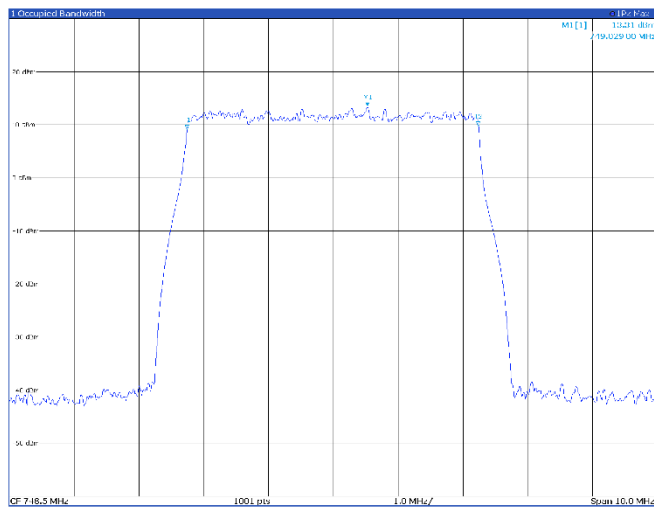
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		752.089 MHz	12.98 dBm	Occ. BW	4.473 029 55 MHz
M2	1		742.75219 MHz	0.22 dBm	Occ. BW Channel	750.909 162 MHz
M3	1		762.22319 MHz	0.10 dBm	Occ. BW Channel	753.909 162 MHz

TM3p1, 5 MHz, high channel



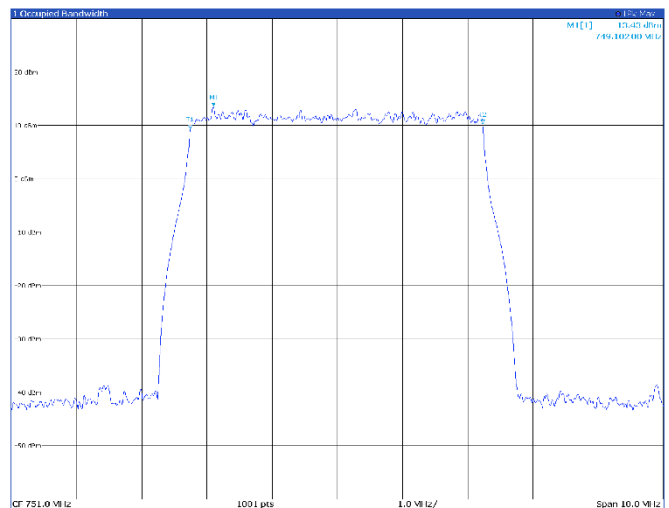
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		753.4 MHz	13.91 dBm	Occ. BW	4.467 624 688 MHz
M2	1		751.212 59 MHz	0.67 dBm	Occ. BW Channel	753.487 515 074 MHz
M3	1		755.230 32 MHz	0.72 dBm	Occ. BW Channel	753.487 515 074 MHz

TM3p1a, 5 MHz, low channel



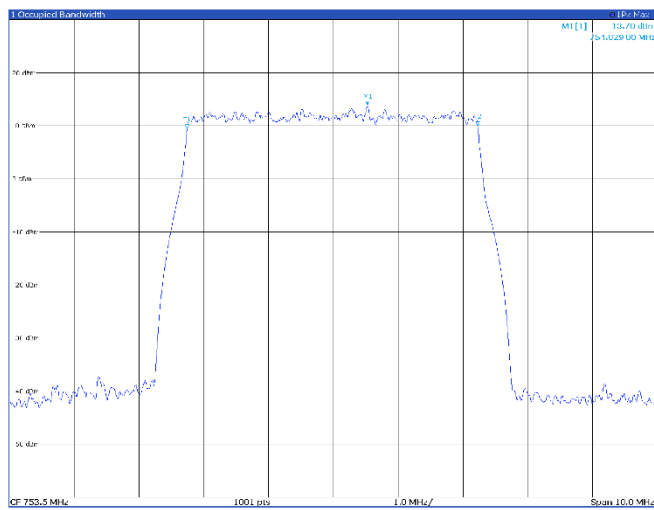
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		749.029 MHz	13.31 dBm	Occ. BW	4.492 425 14 MHz
M2	1		740.248 4 MHz	0.14 dBm	Occ. BW Channel	749.009 162 MHz
M3	1		757.810 32 MHz	0.26 dBm	Occ. BW Channel	749.009 162 MHz

TM3p1a, 5 MHz, mid channel



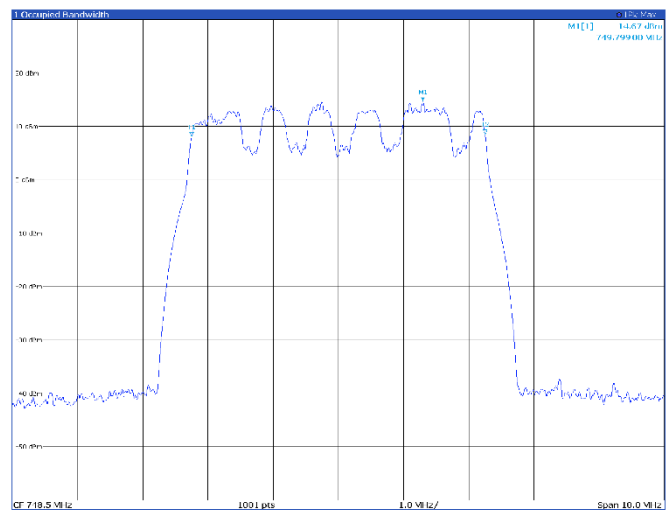
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		749.362 MHz	13.43 dBm	Occ. BW	4.463 749 362 MHz
M2	1		740.791 32 MHz	0.23 dBm	Occ. BW Channel	749.009 162 MHz
M3	1		758.932 32 MHz	0.18 dBm	Occ. BW Channel	749.009 162 MHz

TM3p1a, 5 MHz, high channel



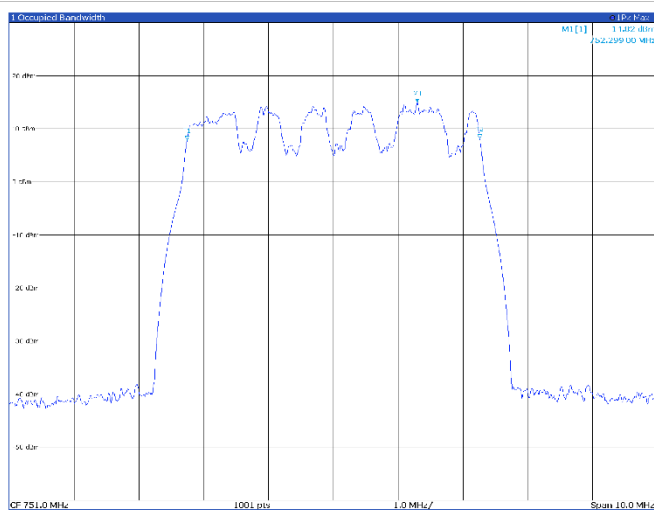
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		754.029 MHz	13.70 dBm	Occ Sw	4.487091236 MHz
M1	1		751.24212 MHz	0.40 dBm	Occ Sw Control	753.49580122 MHz
M2	1		753.72977 MHz	0.40 dBm	Occ Sw Control	753.72977 MHz

TM3p3, 5 MHz, low channel



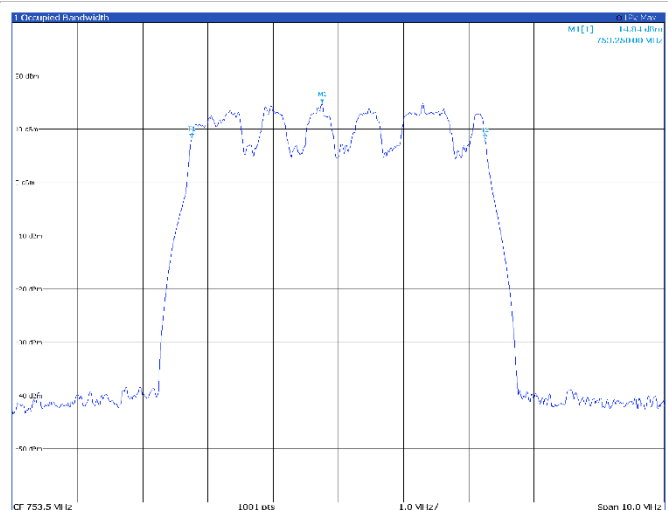
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		749.799 MHz	14.67 dBm	Occ Sw	4.500916379 MHz
M1	1		746.21779 MHz	0.12 dBm	Occ Sw Control	746.21779 MHz
M2	1		750.74021 MHz	0.12 dBm	Occ Sw Control	750.74021 MHz

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		752.299 MHz	14.82 dBm	Occ Sw	4.516108991 MHz
M1	1		749.74529 MHz	0.12 dBm	Occ Sw Control	750.754707 MHz
M2	1		753.85244 MHz	0.12 dBm	Occ Sw Control	753.85244 MHz

TM3p3, 5 MHz, high channel

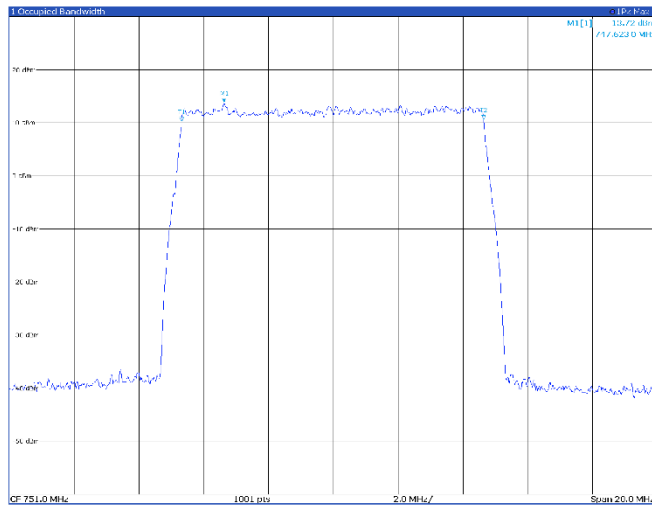


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		753.25 MHz	14.84 dBm	Occ Sw	4.503639975 MHz
M1	1		751.24707 MHz	0.12 dBm	Occ Sw Control	753.19952507 MHz
M2	1		755.24111 MHz	0.12 dBm	Occ Sw Control	755.24111 MHz

Band n13

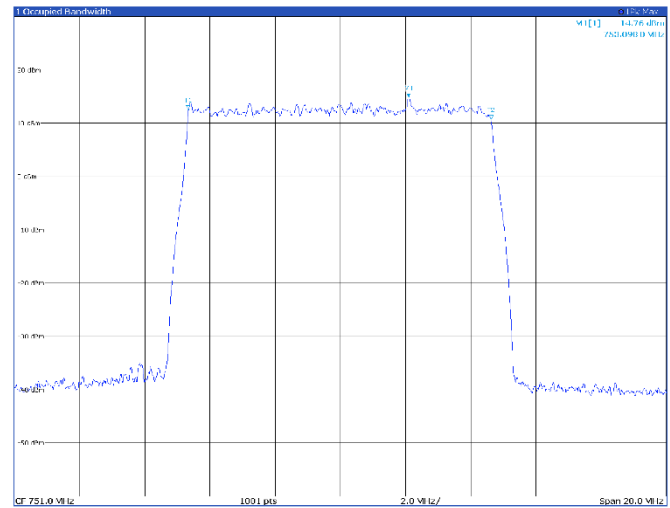
10 MHz

TM1.1, 10 MHz, mid channel



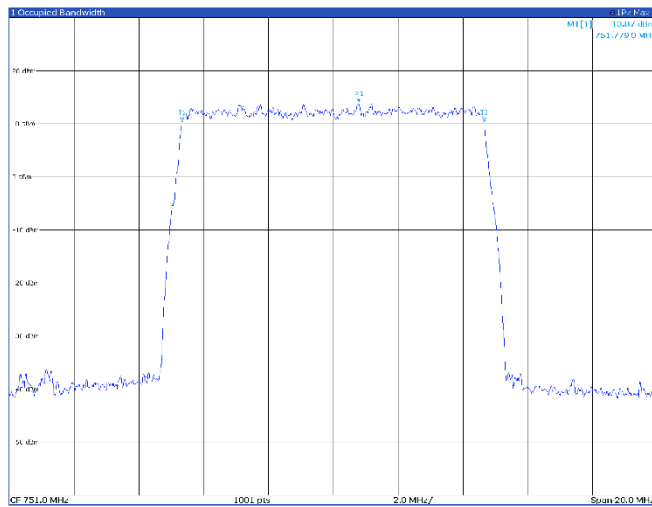
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		747.623 MHz	13.72 dBm	Occ BW	9.311370616 MHz
T1	1		746.2234 MHz	10.18 dBm	Occ BW Control	750.9553351 MHz
T2	1		746.5483 MHz	10.04 dBm	Occ BW Lim Offset	750.9553351 MHz

TM3p1, 10 MHz, mid channel



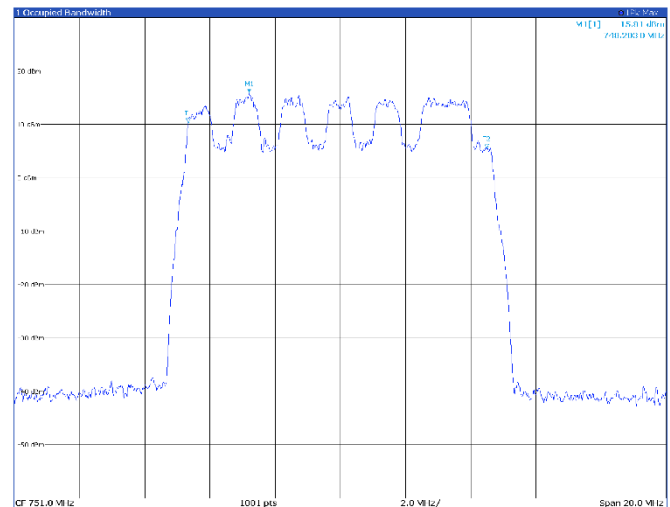
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		753.098 MHz	14.76 dBm	Occ BW	9.286011368 MHz
T1	1		746.326 MHz	12.21 dBm	Occ BW Control	750.9553351 MHz
T2	1		750.5441 MHz	10.75 dBm	Occ BW Lim Offset	750.9553351 MHz

TM3p1a, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		751.779 MHz	13.87 dBm	Occ BW	9.22322179 MHz
T1	1		746.242 MHz	10.21 dBm	Occ BW Control	750.9553351 MHz
T2	1		746.5483 MHz	10.04 dBm	Occ BW Lim Offset	750.9553351 MHz

TM3p3, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		748.203 MHz	15.81 dBm	Occ BW	9.148758999 MHz
T1	1		746.2234 MHz	10.18 dBm	Occ BW Control	750.9553351 MHz
T2	1		750.4834 MHz	10.04 dBm	Occ BW Lim Offset	750.9553351 MHz

8.3 FCC §27.53(h)(3) 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	November 20, 2024	Temperature	22 °C
Test end date	December 13, 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 n13: Antenna port 1

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM1.1	748.5	5.05
n13	5 MHz	TM1.1	751.0	5.08
n13	5 MHz	TM1.1	753.5	5.04

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM3p1	748.5	5.05
n13	5 MHz	TM3p1	751.0	5.08
n13	5 MHz	TM3p1	753.5	5.07

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM3p1a	748.5	5.08
n13	5 MHz	TM3p1a	751.0	5.05
n13	5 MHz	TM3p1a	753.5	5.07

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM3p3	748.5	5.04
n13	5 MHz	TM3p3	751.0	5.08
n13	5 MHz	TM3p3	753.5	5.01

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM1.1	n/a	-
n13	10 MHz	TM1.1	751.0	10.11
n13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM3p1	n/a	-
n13	10 MHz	TM3p1	751.0	10.09
n13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM3p1a	n/a	-
n13	10 MHz	TM3p1a	751.0	10.11
n13	10 MHz	TM3p1a	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM3p3	n/a	-
n13	10 MHz	TM3p3	751.0	9.95
n13	10 MHz	TM3p3	n/a	-

Band n13: Antenna port 2

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM1.1	748.5	5.03
n13	5 MHz	TM1.1	751.0	5.04
n13	5 MHz	TM1.1	753.5	5.04

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM3p1	748.5	5.08
n13	5 MHz	TM3p1	751.0	5.04
n13	5 MHz	TM3p1	753.5	5.04

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM3p1a	748.5	5.05
n13	5 MHz	TM3p1a	751.0	5.04
n13	5 MHz	TM3p1a	753.5	5.05

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	5 MHz	TM3p3	748.5	5.04
n13	5 MHz	TM3p3	751.0	5.08
n13	5 MHz	TM3p3	753.5	5.04

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM1.1	n/a	-
n13	10 MHz	TM1.1	751.0	10.15
n13	10 MHz	TM1.1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM3p1	n/a	-
n13	10 MHz	TM3p1	751.0	10.09
n13	10 MHz	TM3p1	n/a	-

Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM3p1a	n/a	-
n13	10 MHz	TM3p1a	751.0	10.13
n13	10 MHz	TM3p1a	n/a	-

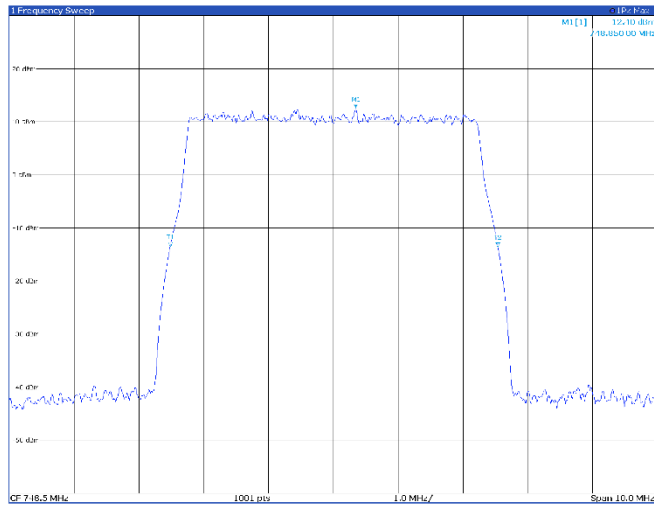
Band	OBW Declared	Modulation	Channel (MHz)	26 dB (MHz)
n13	10 MHz	TM3p3	n/a	-
n13	10 MHz	TM3p3	751.0	9.95
n13	10 MHz	TM3p3	n/a	-

Antenna port 1

Band n13

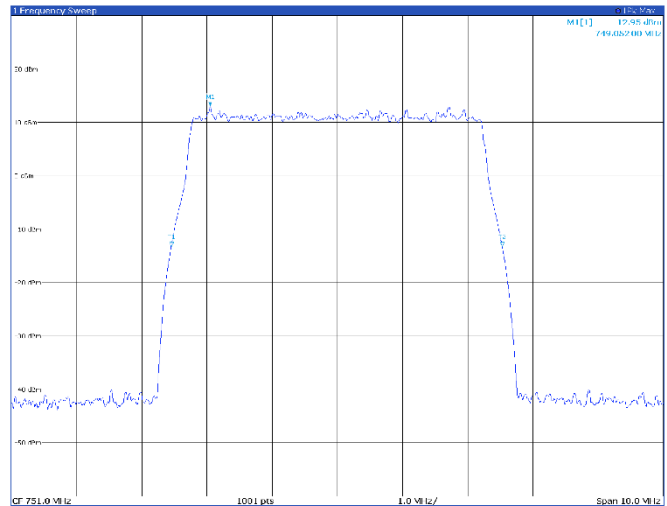
5 MHz

TM1.1, 5 MHz, low channel



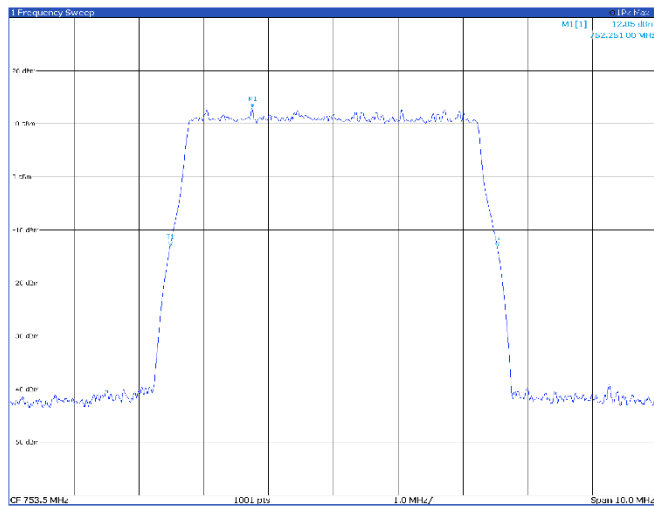
Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		748.85 MHz	12.40 dBm	nB	20.0 dB
F1	1		748.952 MHz	-13.25 dBm	nB down BW	5.05 MHz
F2	1		749.052 MHz	-13.25 dBm	nB down BW	5.05 MHz

TM1.1, 5 MHz, mid channel



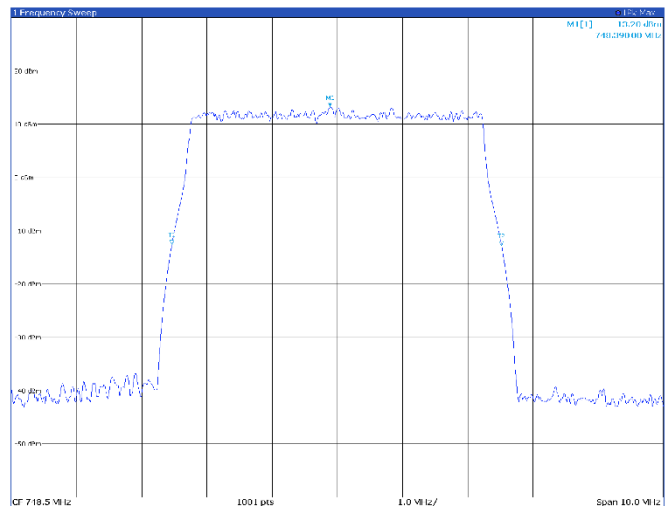
Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		749.052 MHz	12.95 dBm	nB	20.0 dB
F1	1		748.952 MHz	-13.25 dBm	nB down BW	5.08 MHz
F2	1		749.152 MHz	-13.25 dBm	nB down BW	5.08 MHz

TM1.1, 5 MHz, high channel

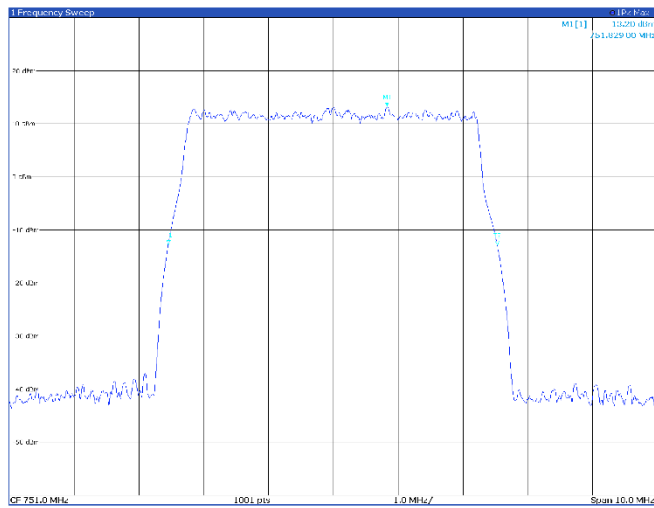


Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		752.251 MHz	12.85 dBm	nB	20.0 dB
F1	1		750.952 MHz	-13.25 dBm	nB down BW	5.04 MHz
F2	1		753.552 MHz	-13.25 dBm	nB down BW	5.04 MHz

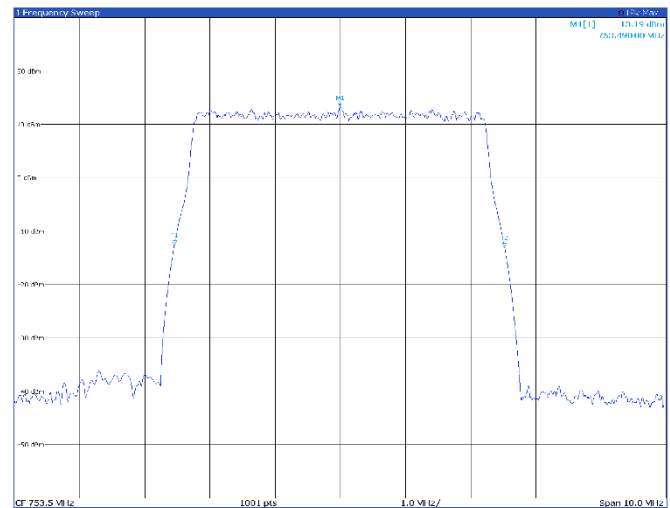
TM3p1, 5 MHz, low channel



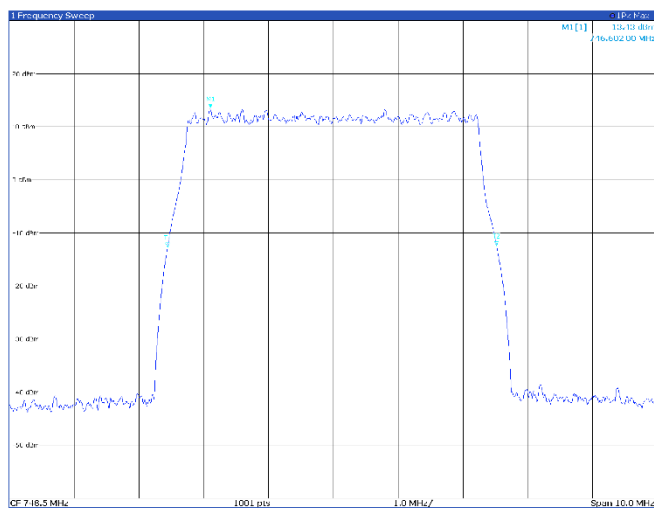
Marker	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		749.39 MHz	13.20 dBm	nB	20.0 dB
F1	1		748.952 MHz	-13.25 dBm	nB down BW	5.05 MHz
F2	1		749.828 MHz	-13.25 dBm	nB down BW	5.05 MHz

TM3p1, 5 MHz, mid channel


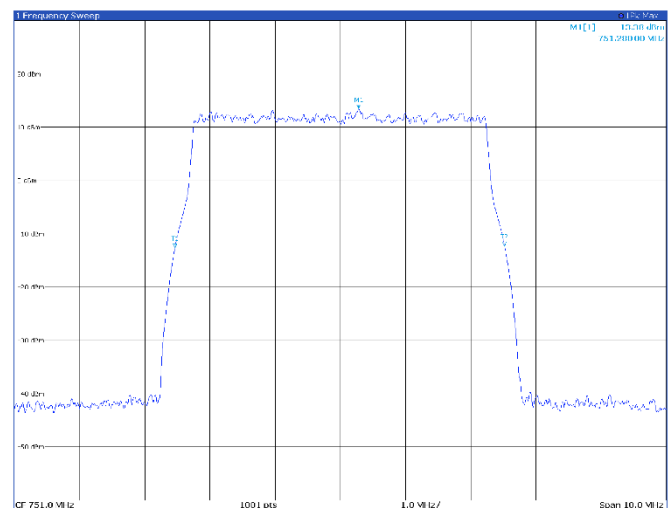
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	1	751.829 MHz	13.20 dBm	nB	20.0 dB
M1	1	1	748.452 MHz	-12.76 dBm	mB span BW	5.08 MHz
M1	1	1	753.207 MHz	-12.83 dBm	C factor	dB

TM3p1, 5 MHz, high channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	1	753.49 MHz	13.19 dBm	nB	20.0 dB
M1	1	1	750.953 MHz	-12.65 dBm	mB span BW	5.07 MHz
M1	1	1	756.027 MHz	-12.85 dBm	C factor	dB

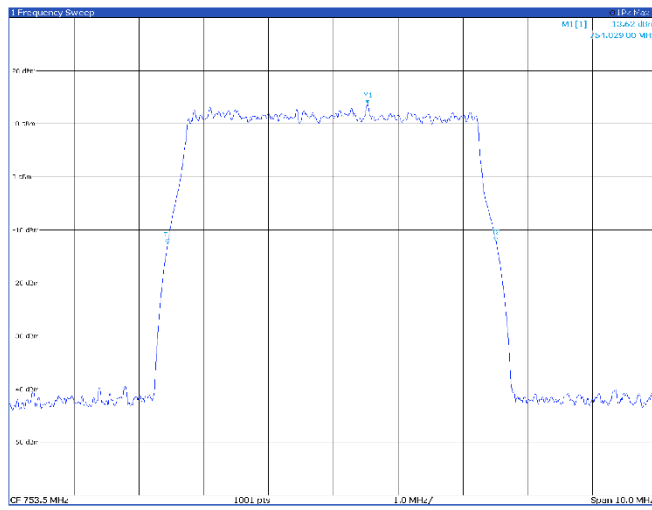
TM3p1a, 5 MHz, low channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	1	746.602 MHz	13.43 dBm	nB	20.0 dB
M1	1	1	743.042 MHz	-12.75 dBm	mB span BW	5.08 MHz
M1	1	1	750.162 MHz	-12.83 dBm	C factor	dB

TM3p1a, 5 MHz, mid channel


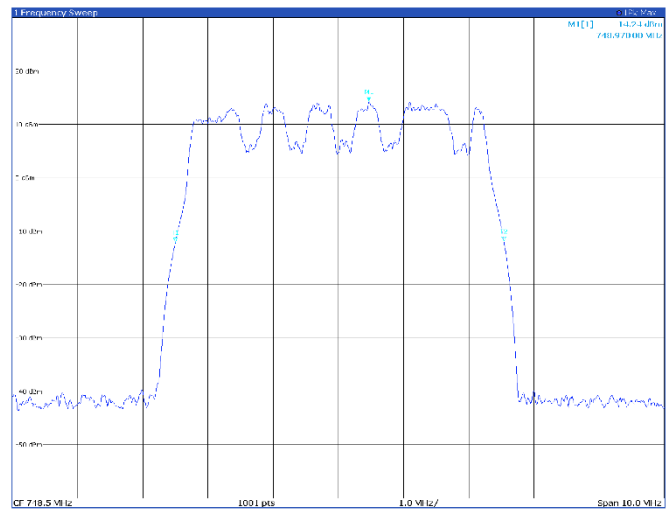
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	1	751.28 MHz	13.38 dBm	nB	20.0 dB
M1	1	1	748.652 MHz	-12.65 dBm	mB span BW	5.05 MHz
M1	1	1	753.912 MHz	-12.85 dBm	C factor	dB

TM3p1a, 5 MHz, high channel



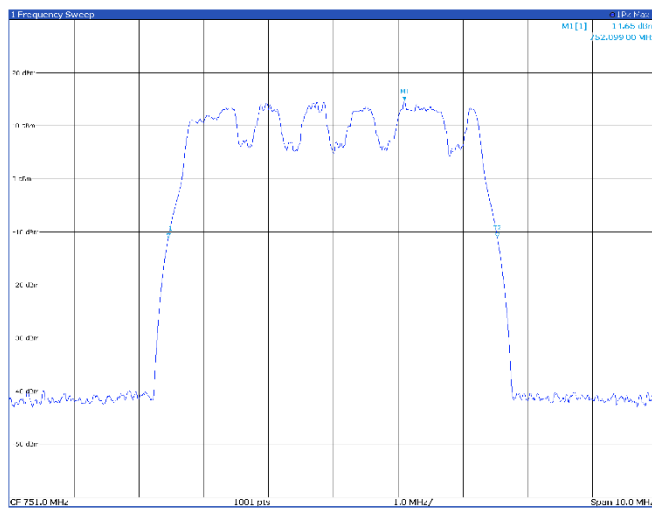
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		754.029 MHz	13.62 dBm	nB	30.0 dB
M1	1		750.042 MHz	-12.74 dBm	nB down BW	5.07 MHz
M2	1		758.012 MHz	-12.74 dBm	Q-factor	55.5

TM3p3, 5 MHz, low channel



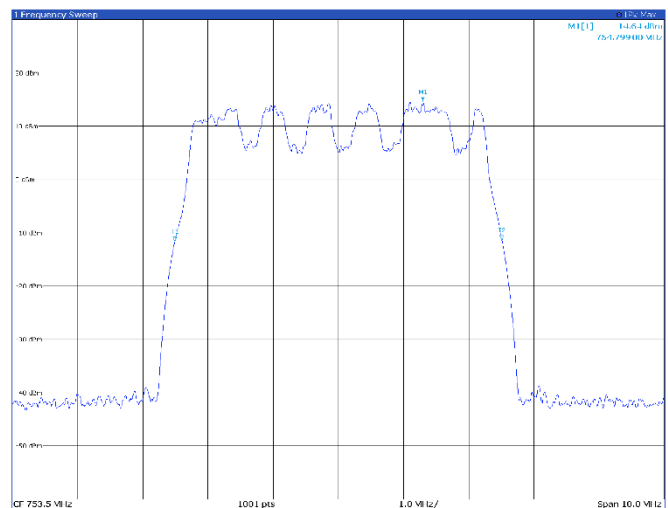
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		748.57 MHz	14.24 dBm	nB	30.0 dB
M1	1		746.012 MHz	-12.02 dBm	nB down BW	5.04 MHz
M2	1		751.012 MHz	-12.74 dBm	Q-factor	140.0

TM3p3, 5 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		752.099 MHz	14.65 dBm	nB	30.0 dB
M1	1		748.452 MHz	-11.13 dBm	nB down BW	5.08 MHz
M2	1		755.527 MHz	-11.01 dBm	Q-factor	55.7

TM3p3, 5 MHz, high channel

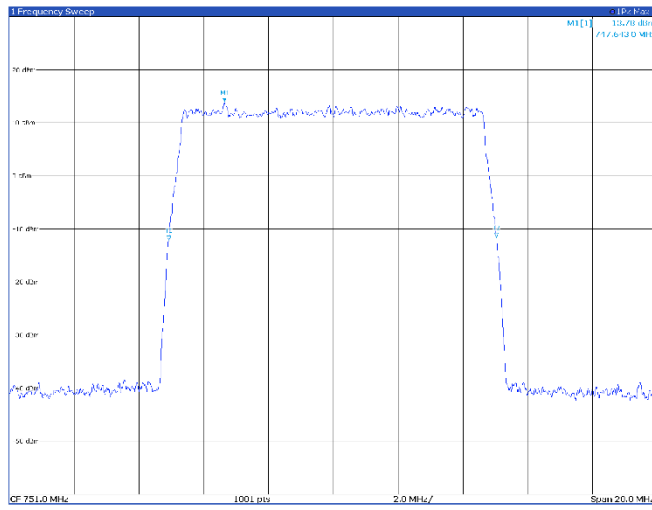


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		754.799 MHz	14.64 dBm	nB	30.0 dB
M1	1		750.992 MHz	-11.02 dBm	nB down BW	5.01 MHz
M2	1		758.607 MHz	-11.18 dBm	Q-factor	150.5

Band n13

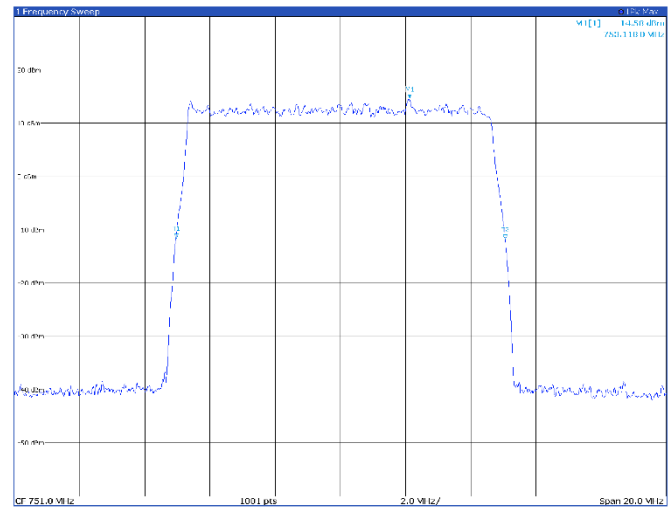
10 MHz

TM1.1, 10 MHz, mid channel



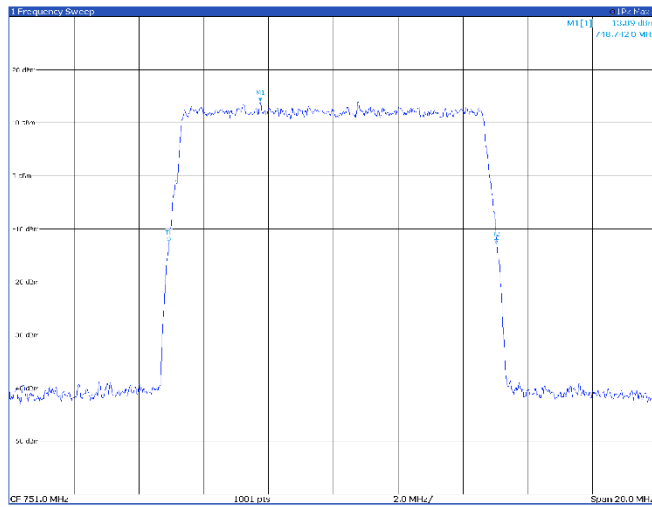
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		747.643 MHz	13.78 dBm	nB	20 dB	10.11 MHz
M1	1		745.923 MHz	+2.13 dBm	nB	20 dB BW	
M1	1		746.010 MHz	-1.03 dBm	nB	20 dB BW	

TM3p1, 10 MHz, mid channel



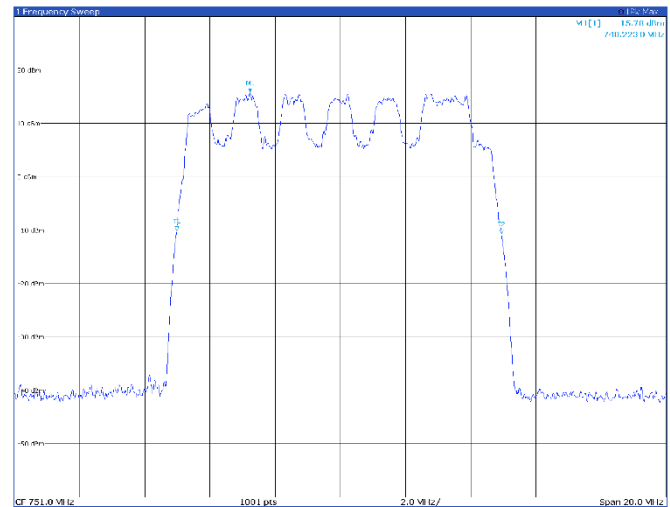
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		753.118 MHz	14.58 dBm	nB	20 dB	10.09 MHz
M1	1		753.923 MHz	+1.80 dBm	nB	20 dB BW	
M1	1		754.010 MHz	-1.17 dBm	nB	20 dB BW	

TM3p1a, 10 MHz, mid channel



Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		748.742 MHz	13.89 dBm	nB	20 dB	10.11 MHz
M1	1		745.923 MHz	+2.47 dBm	nB	20 dB BW	
M1	1		746.010 MHz	-1.80 dBm	nB	20 dB BW	

TM3p3, 10 MHz, mid channel



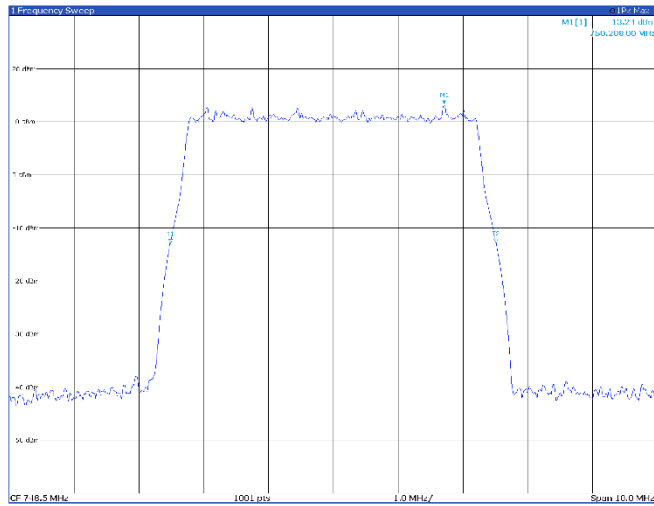
Type	Ref	Trc	X Value	Y Value	nB	Function	Function Result
M1	1		748.223 MHz	15.70 dBm	nB	20 dB	9.95 MHz
M1	1		745.923 MHz	+0.11 dBm	nB	20 dB BW	
M1	1		746.010 MHz	-10.67 dBm	nB	20 dB BW	

Antenna port 2

Band n13

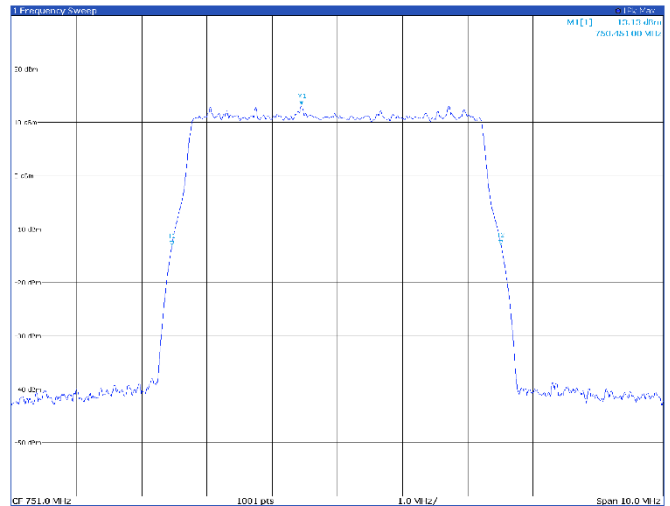
5 MHz

TM1.1, 5 MHz, low channel



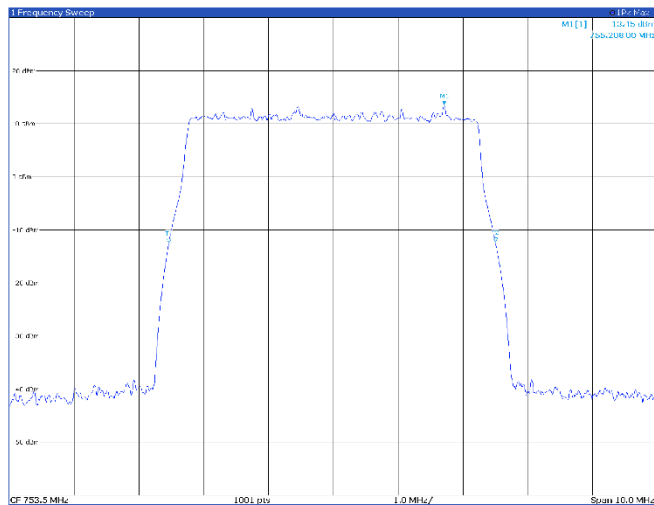
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		750.208 MHz	13.24 dBm	nB	20.0 dB
M1	1		748.952 MHz	-12.36 dBm	nB down BW	5.03 MHz
M1	1		750.208 MHz	-12.36 dBm	nB down BW	5.03 MHz

TM1.1, 5 MHz, mid channel



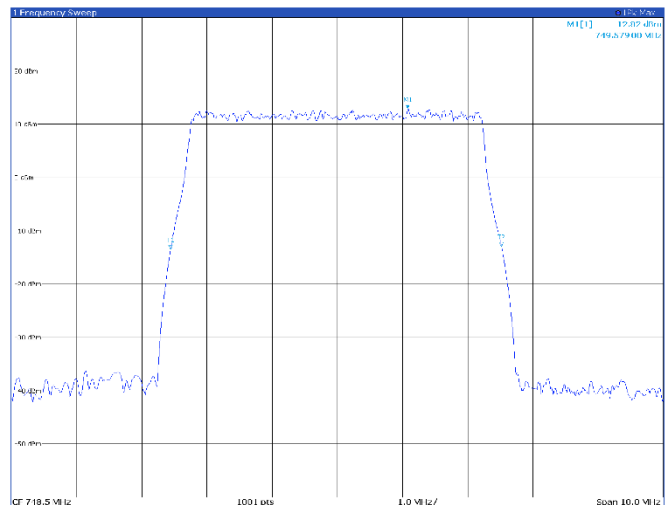
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		750.451 MHz	13.13 dBm	nB	20.0 dB
M1	1		748.192 MHz	-13.00 dBm	nB down BW	5.04 MHz
M1	1		753.572 MHz	-13.00 dBm	nB down BW	5.04 MHz

TM1.1, 5 MHz, high channel



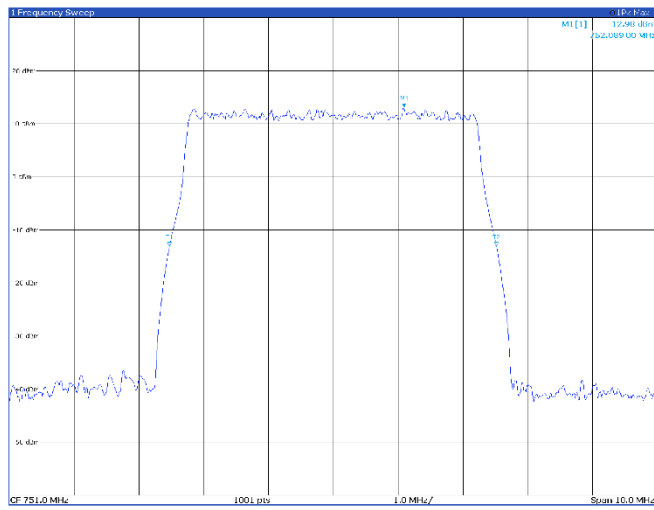
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		755.208 MHz	13.45 dBm	nB	20.0 dB
M1	1		750.952 MHz	-12.49 dBm	nB down BW	5.04 MHz
M1	1		755.468 MHz	-12.49 dBm	nB down BW	5.04 MHz

TM3p1, 5 MHz, low channel



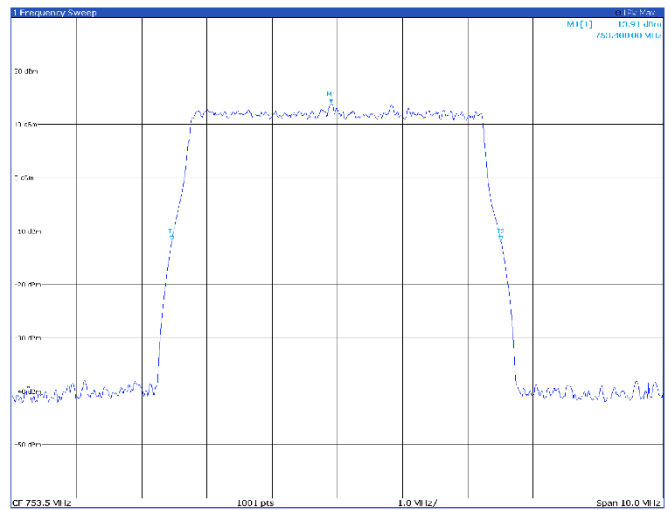
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		749.579 MHz	12.62 dBm	nB	20.0 dB
M1	1		748.092 MHz	-12.49 dBm	nB down BW	5.08 MHz
M1	1		751.072 MHz	-12.49 dBm	nB down BW	5.08 MHz

TM3p1, 5 MHz, mid channel



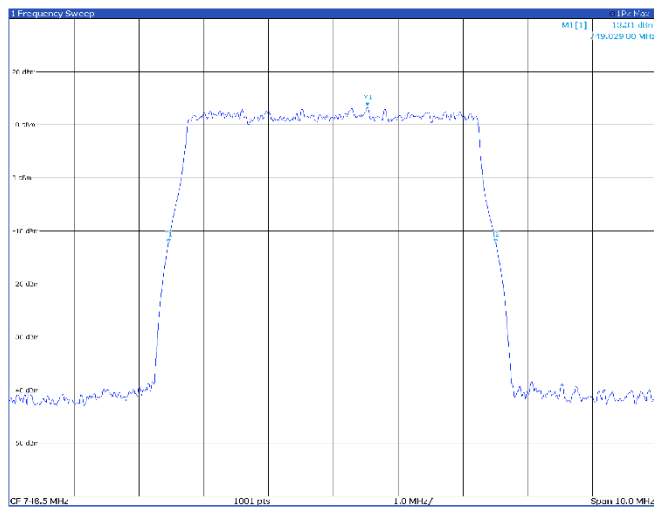
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	752.089 MHz	12.98 dBm	nB	20.0 dB
M1	1	1	752.089 MHz	12.98 dBm	nB	20.0 dB
M1	1	1	752.089 MHz	12.98 dBm	nB	20.0 dB

TM3p1, 5 MHz, high channel



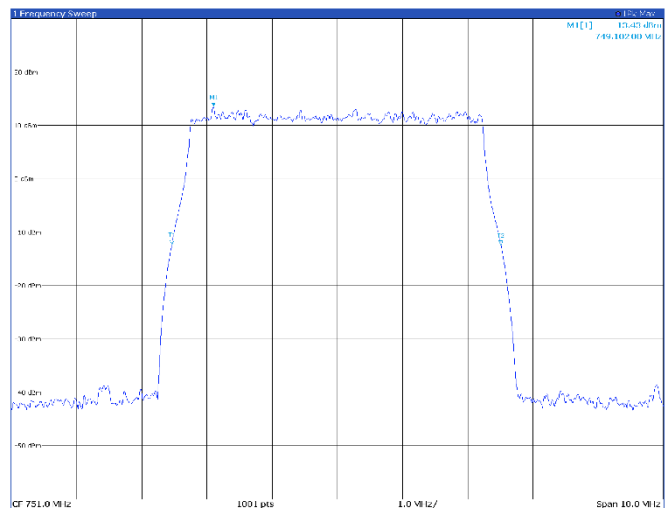
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	752.4 MHz	13.91 dBm	nB	20.0 dB
M1	1	1	752.4 MHz	13.91 dBm	nB	20.0 dB
M1	1	1	752.4 MHz	13.91 dBm	nB	20.0 dB

TM3p1a, 5 MHz, low channel



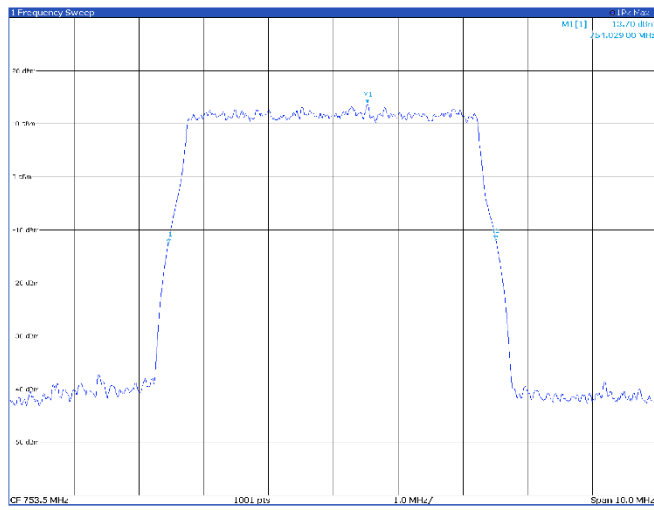
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	749.029 MHz	13.31 dBm	nB	20.0 dB
M1	1	1	749.029 MHz	13.31 dBm	nB	20.0 dB
M1	1	1	749.029 MHz	13.31 dBm	nB	20.0 dB

TM3p1a, 5 MHz, mid channel

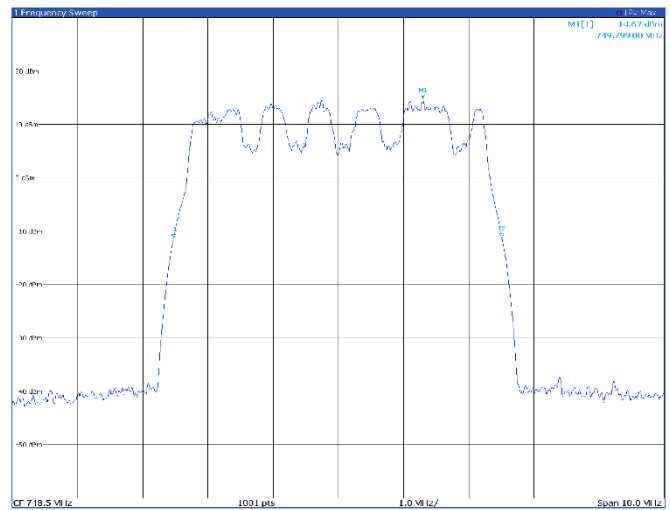


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	749.102 MHz	13.43 dBm	nB	20.0 dB
M1	1	1	749.102 MHz	13.43 dBm	nB	20.0 dB
M1	1	1	749.102 MHz	13.43 dBm	nB	20.0 dB

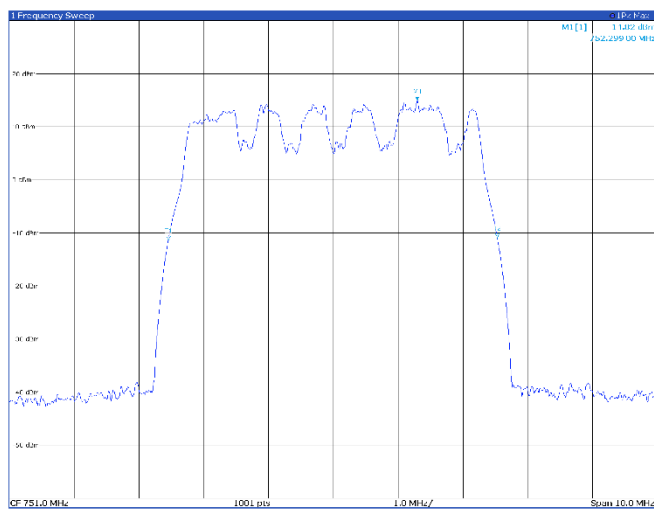
TM3p1a, 5 MHz, high channel



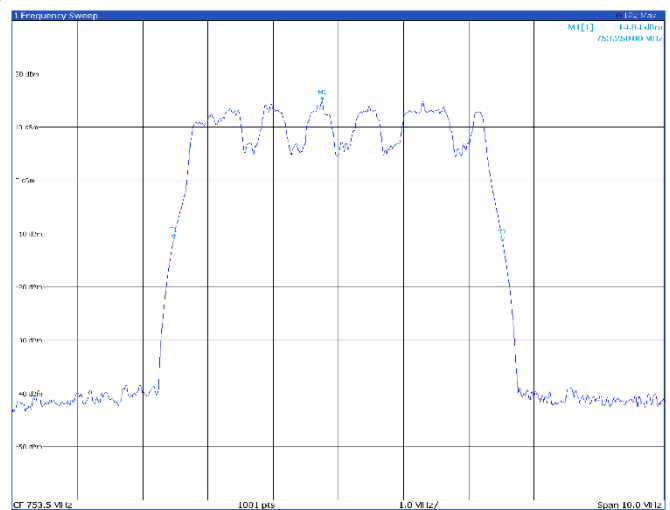
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel



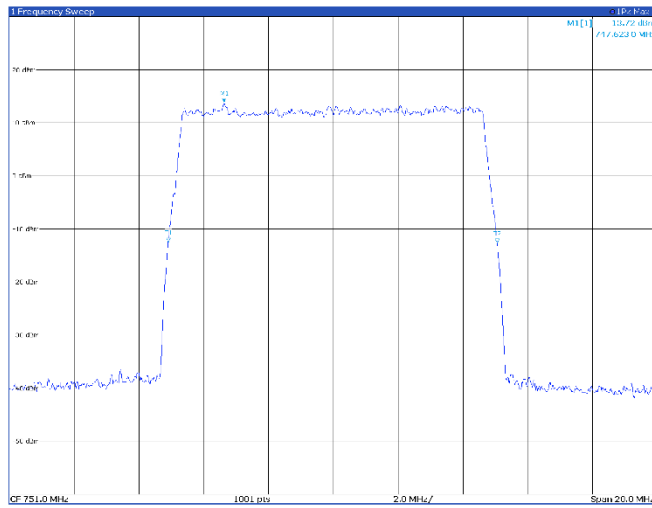
TM3p3, 5 MHz, high channel



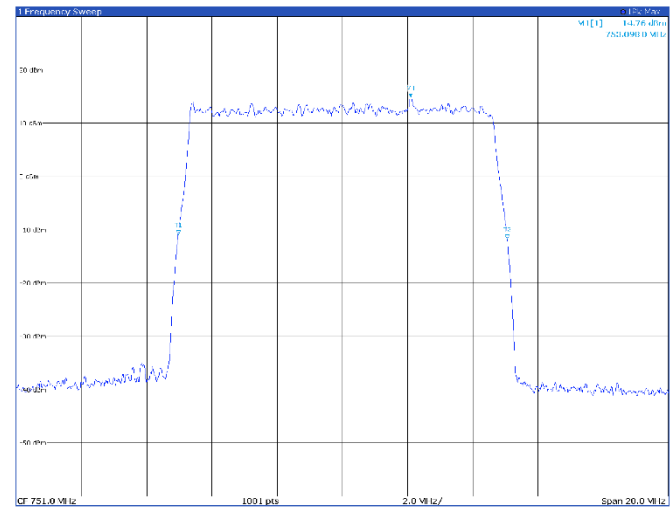
Band n13

10 MHz

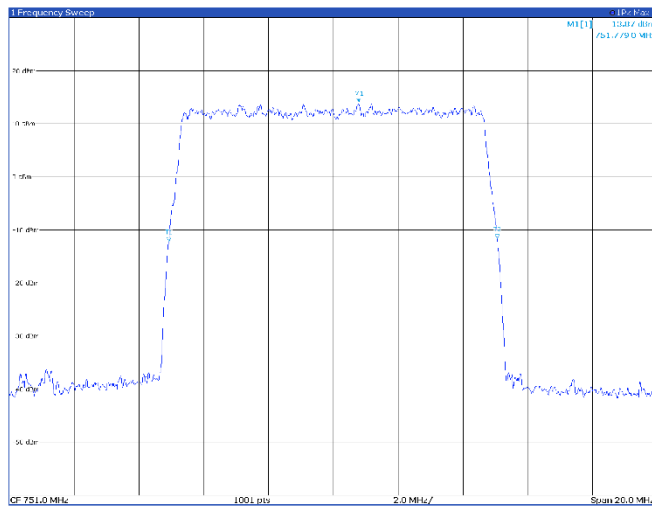
TM1.1, 10 MHz, mid channel



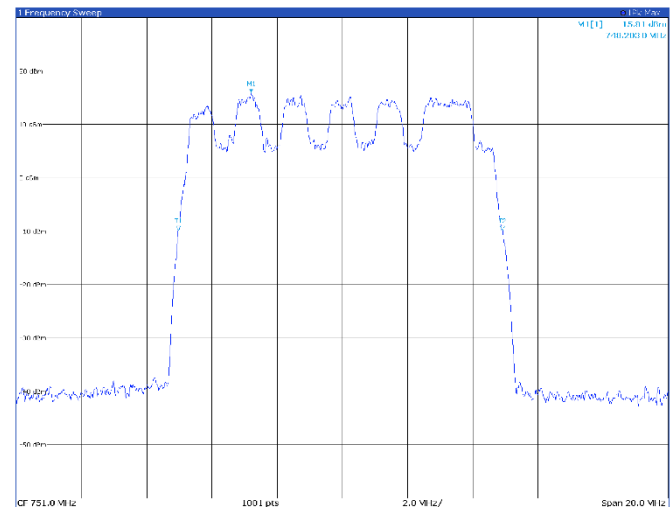
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel



8.4 FCC §27.50(b)(4) Output power

8.4.1 Definitions and limits

(b) The following power and antenna height limits apply to transmitters operating in the **746-758 MHz**, 775-788 MHz and 805-806 MHz bands:

(4) Fixed and base stations transmitting a signal in the 746-757 MHz and 776-787 MHz bands with an emission bandwidth greater than 1 MHz must not exceed an ERP of **1000 watts/MHz (60 dBm/MHz)** and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section.

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

8.4.2 Test summary

Test start date	November 20, 2024	Temperature	22 °C
Test end date	December 13, 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 n13:

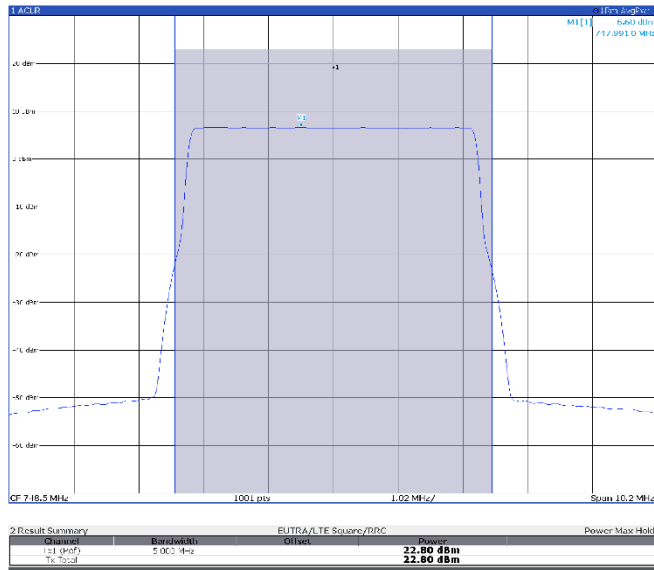
Modulation	OBW (MHz)	Frequency (MHz)	Measured Power Density (dBm/MHz) port 1	Measured Power Density (dBm/MHz) port 2	Antenna Gain Max (dBi)	Total EIRP Power Density (dBm/MHz)	Measured Power (dBm) port 1	Measured Power (dBm) port 2	Limits Power (dBm)	Margin (dB)
TM1.1	5	748.5	6.60	6.45	3.7	13.24	22.80	22.76	60.0	-46.76
TM3p1	5	748.5	6.71	6.62	3.7	13.38	22.90	22.77	60.0	-46.62
TM3p1a	5	748.5	6.85	6.64	3.7	13.46	23.04	22.75	60.0	-46.54
TM3p3	5	748.5	8.70	8.62	3.7	15.37	22.89	22.75	60.0	-44.63
TM1.1	5	751.0	6.72	6.62	3.7	13.38	22.96	22.84	60.0	-46.62
TM3p1	5	751.0	6.81	6.71	3.7	13.47	23.00	22.91	60.0	-46.53
TM3p1a	5	751.0	6.89	6.81	3.7	13.56	23.08	22.90	60.0	-46.44
TM3p3	5	751.0	8.72	8.78	3.7	15.46	22.93	22.87	60.0	-44.54
TM1.1	5	753.5	6.77	6.88	3.7	13.54	22.96	23.02	60.0	-46.46
TM3p1	5	753.5	6.79	6.81	3.7	13.51	22.96	22.98	60.0	-46.49
TM3p1a	5	753.5	6.72	6.76	3.7	13.45	22.96	22.89	60.0	-46.55
TM3p3	5	753.5	8.73	8.74	3.7	15.45	22.89	22.89	60.0	-44.55
TM1.1	10	n/a	-	-	-	-	-	-	-	-
TM3p1	10	n/a	-	-	-	-	-	-	-	-
TM3p1a	10	n/a	-	-	-	-	-	-	-	-
TM3p3	10	n/a	-	-	-	-	-	-	-	-
TM1.1	10	751.0	3.50	3.55	3.7	10.24	22.91	22.84	60.0	-49.76
TM3p1	10	751.0	3.53	3.58	3.7	10.27	22.86	22.81	60.0	-49.73
TM3p1a	10	751.0	3.68	3.59	3.7	10.35	22.84	22.82	60.0	-49.65
TM3p3	10	751.0	5.81	5.90	3.7	12.57	22.89	22.78	60.0	-47.43
TM1.1	10	n/a	-	-	-	-	-	-	-	-
TM3p1	10	n/a	-	-	-	-	-	-	-	-
TM3p1a	10	n/a	-	-	-	-	-	-	-	-
TM3p3	10	n/a	-	-	-	-	-	-	-	-

Antenna port 1

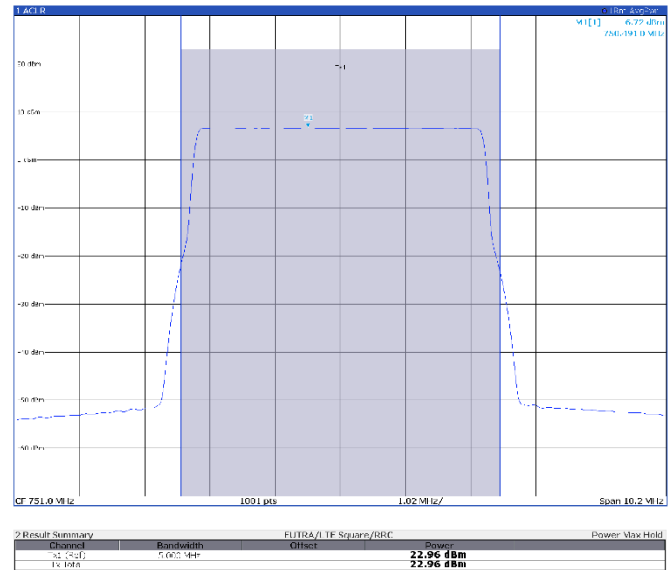
Band n13

5 MHz

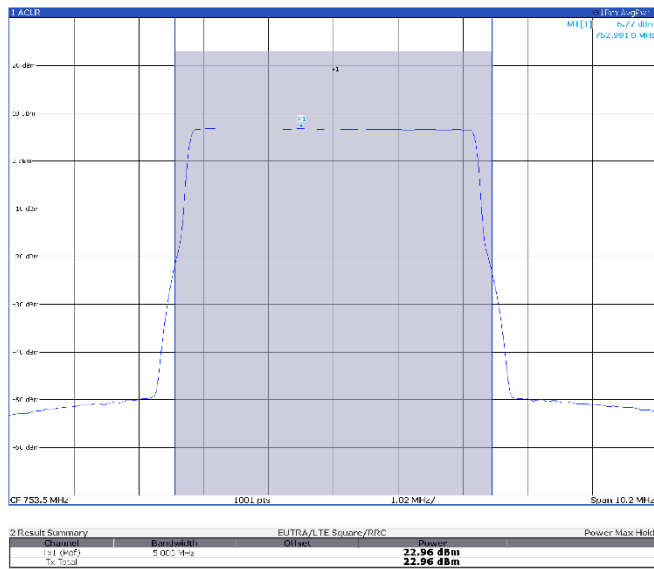
TM1.1, 5 MHz, low channel



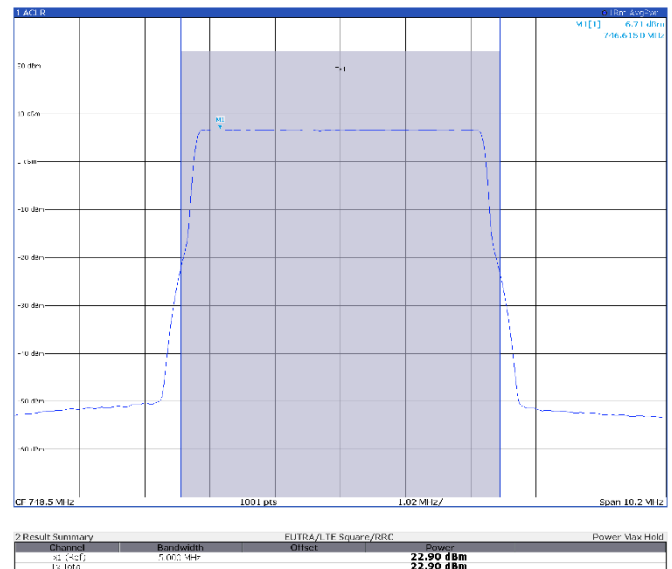
TM1.1, 5 MHz, mid channel



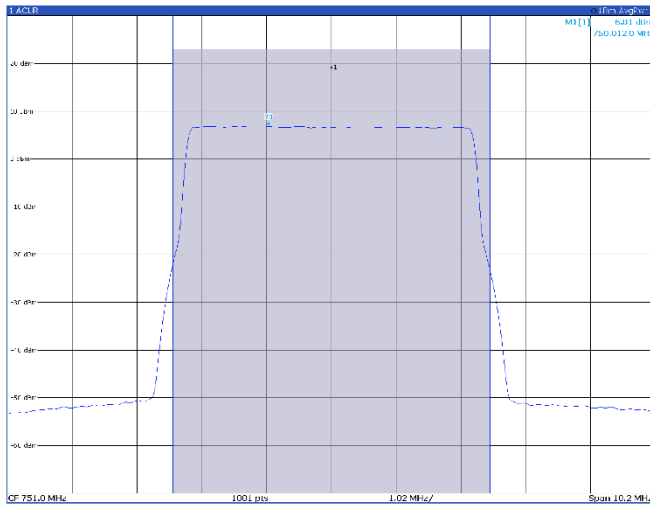
TM1.1, 5 MHz, high channel



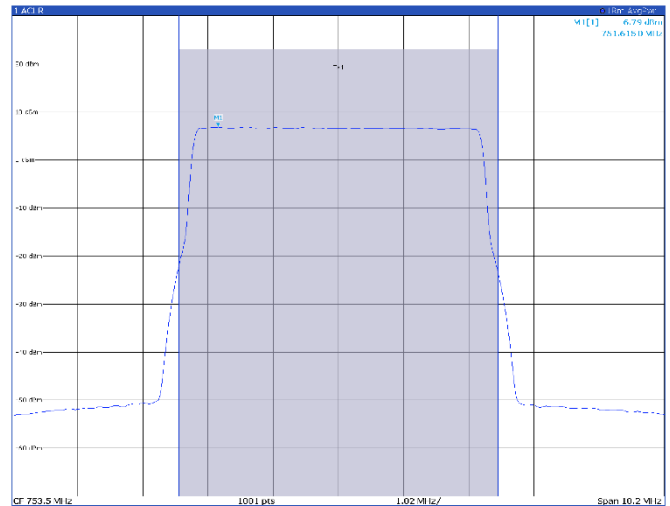
TM3p1, 5 MHz, low channel



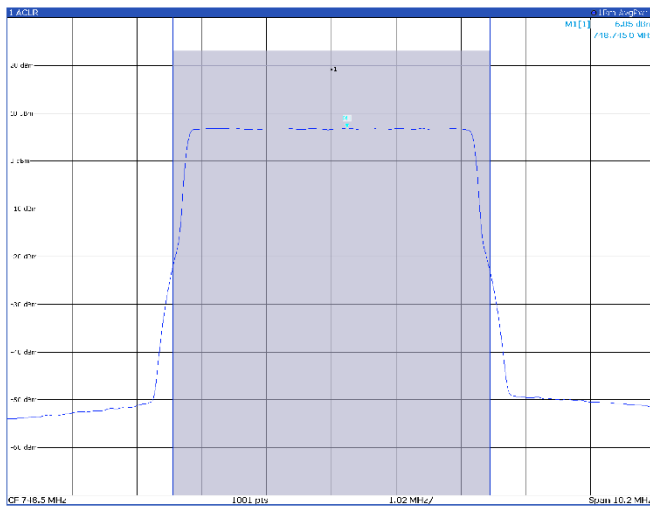
TM3p1, 5 MHz, mid channel



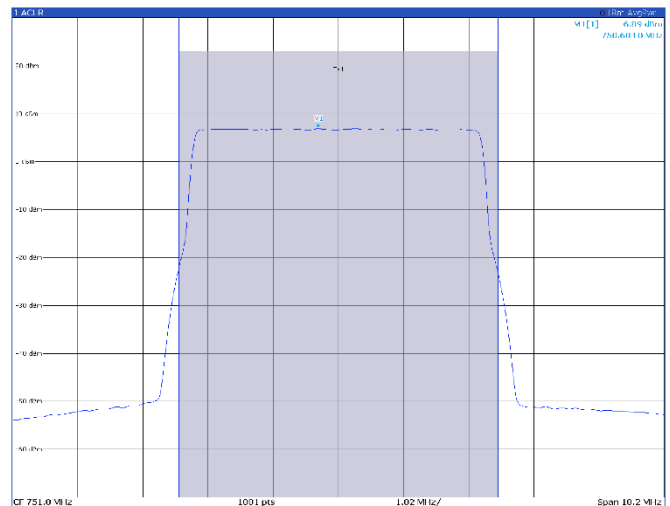
TM3p1, 5 MHz, high channel



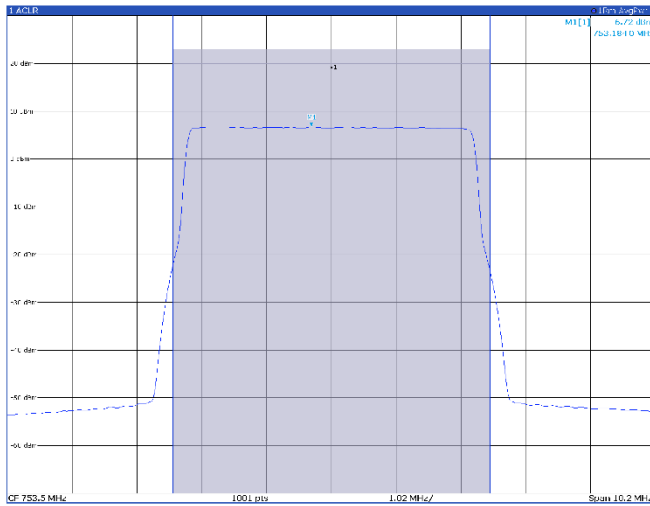
TM3p1a, 5 MHz, low channel



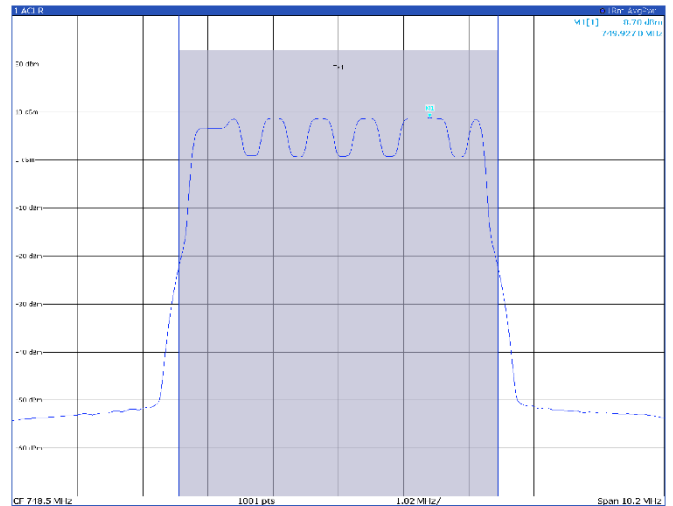
TM3p1a, 5 MHz, mid channel



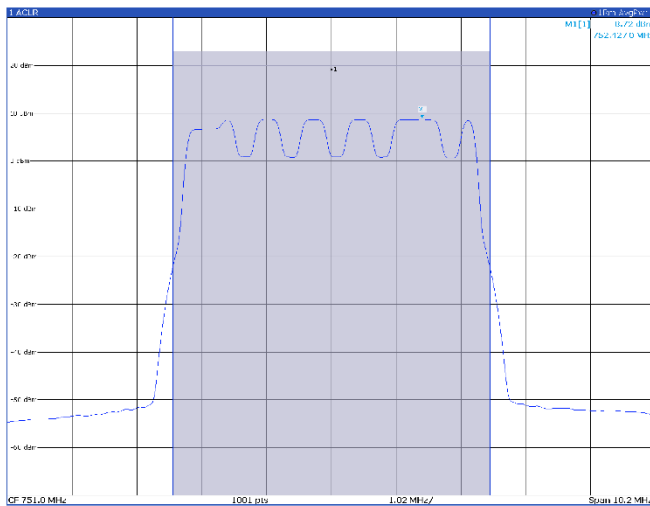
TM3p1a, 5 MHz, high channel



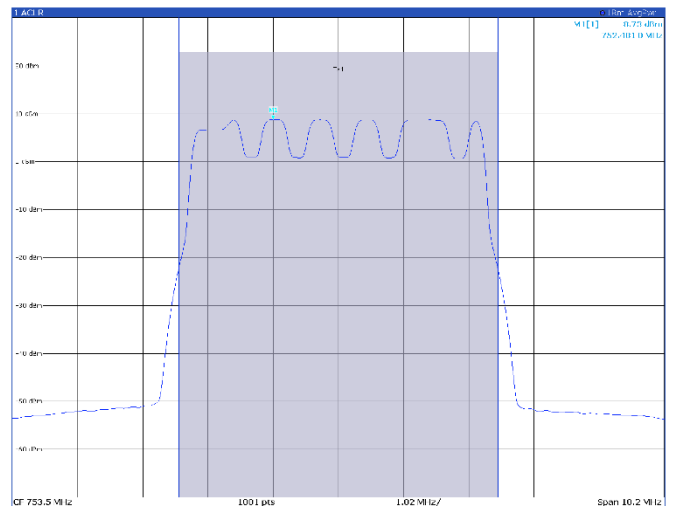
TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, mid channel



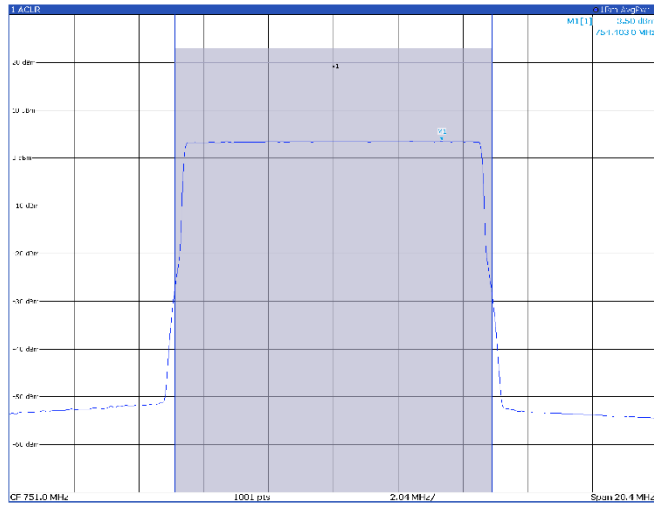
TM3p3, 5 MHz, high channel



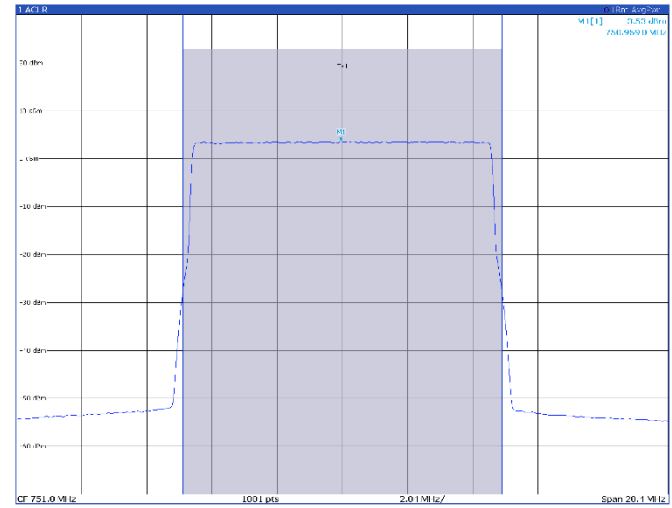
Band n13

10 MHz

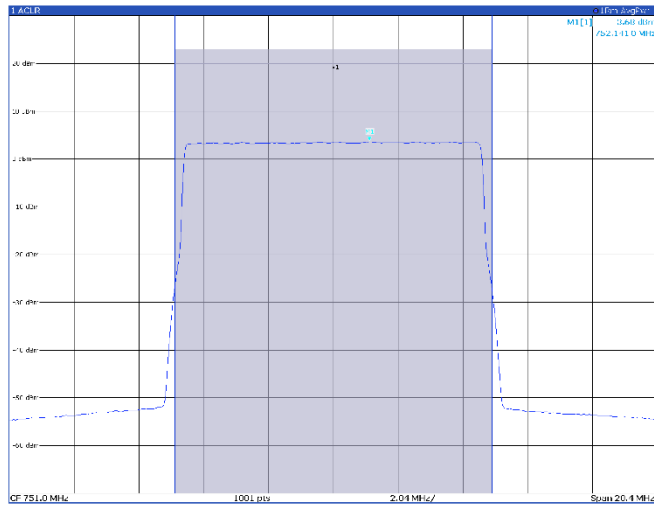
TM1.1, 10 MHz, mid channel



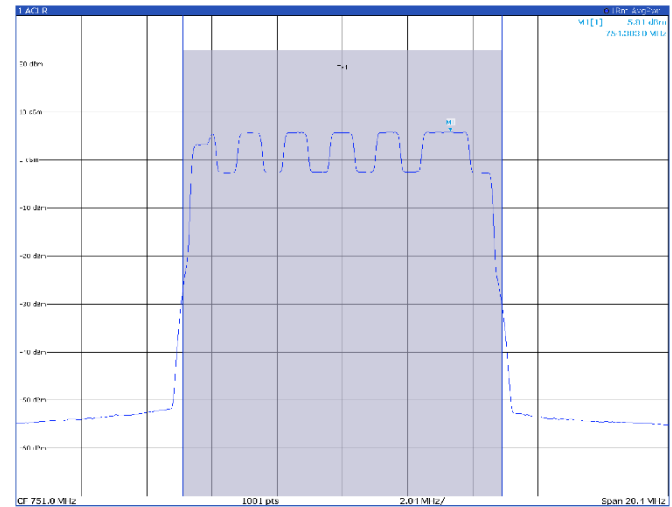
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel

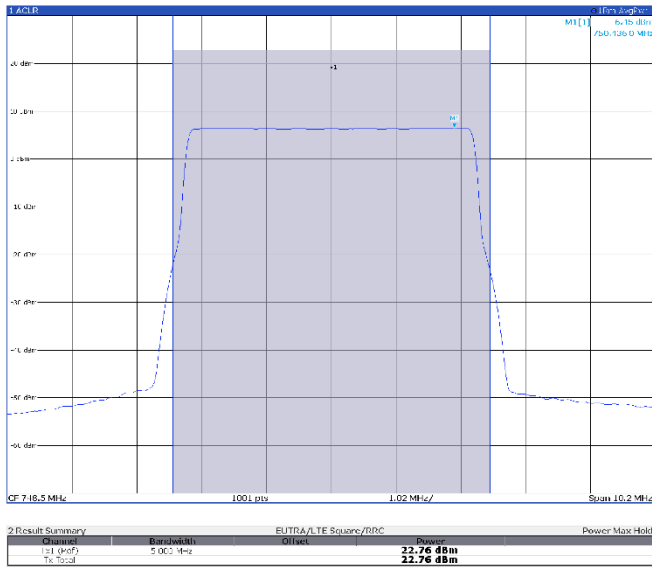


Antenna port 2

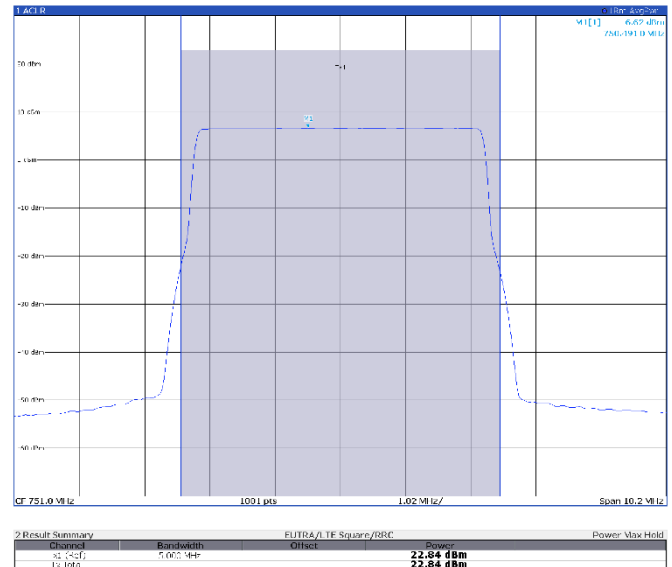
Band n13

5 MHz

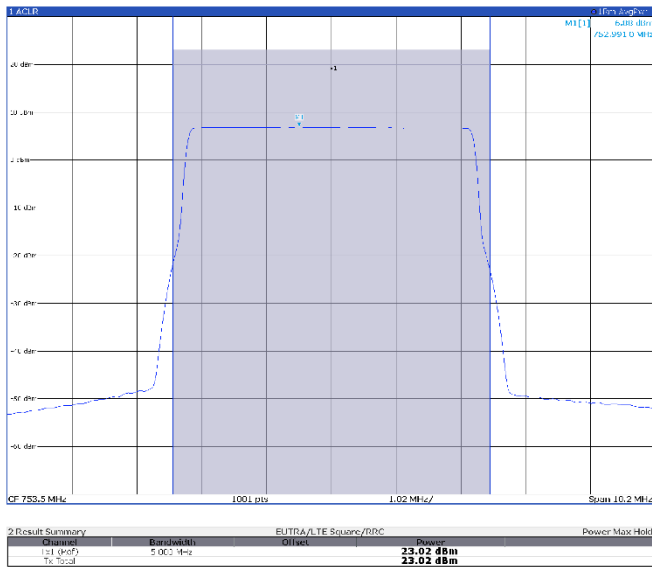
TM1.1, 5 MHz, low channel



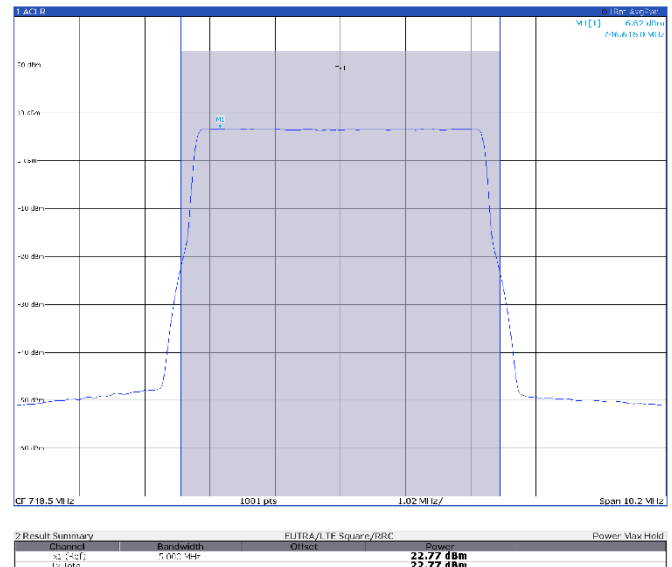
TM1.1, 5 MHz, mid channel



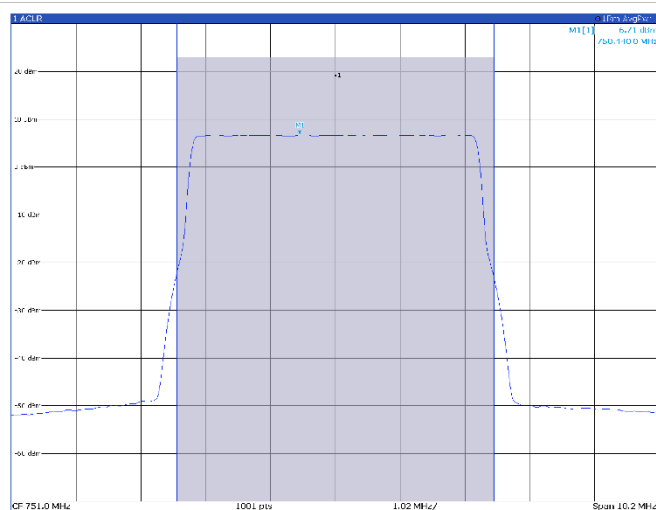
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

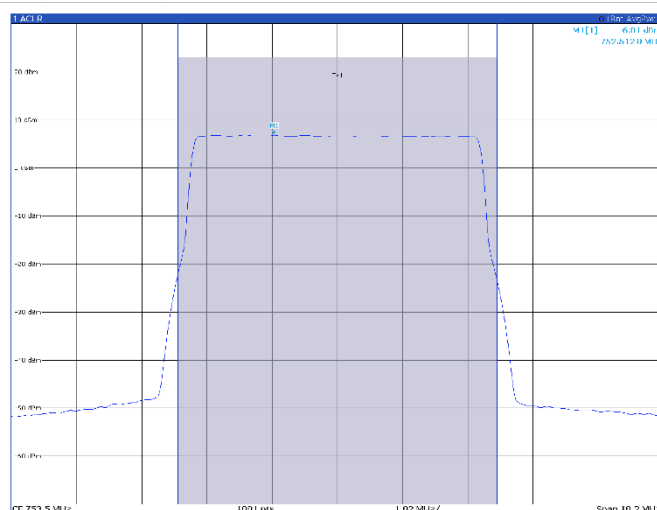


TM3p1, 5 MHz, mid channel



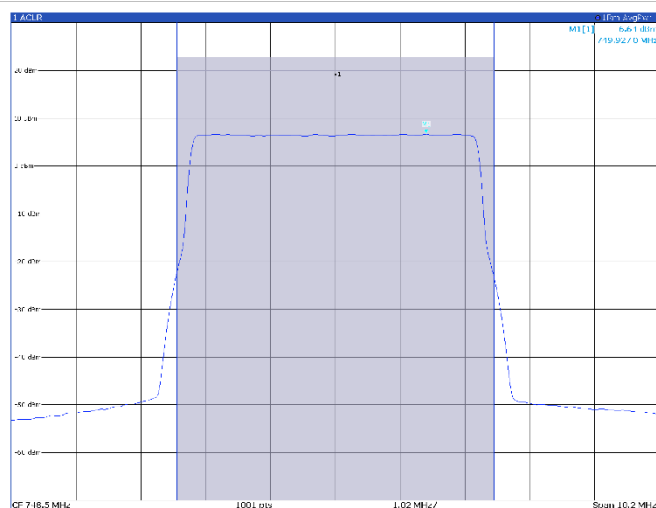
2 Result Summary		EUTRA/LTE Sgnal/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
1x1 (Pof)	5.000 MHz		22.91 dBm	
Tx Total			22.91 dBm	

TM3p1, 5 MHz, high channel



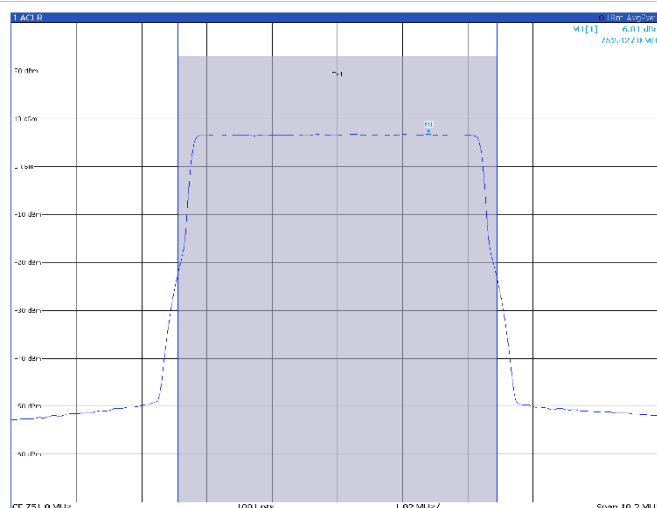
2 Result Summary		FUTRA/I.TF Square/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
21 (R6)	5.000 MHz		22.98 dBm	
21 (R6)			22.98 dBm	

TM3p1a, 5 MHz, low channel



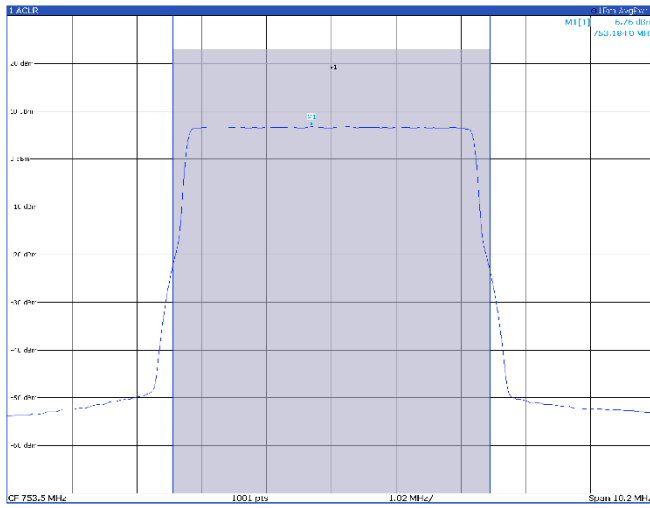
2 Result Summary		EUTRA/LTE Sgnal/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
1x1 (Pof)	5.000 MHz		22.75 dBm	
Tx Total			22.75 dBm	

TM3p1a, 5 MHz, mid channel



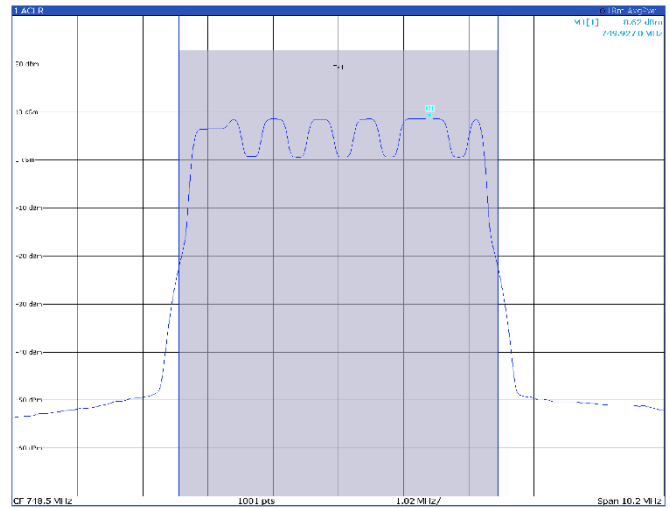
2 Result Summary		FUTRA/LTE Square/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
>1 (Ref)	5.000 MHz		22.90 dBm	
1 (Ref)			22.90 dBm	

TM3p1a, 5 MHz, high channel



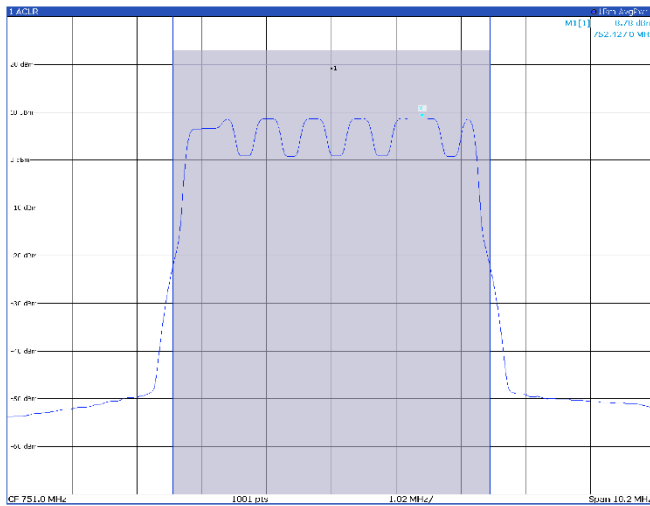
2 Result Summary			
Channel	Bandwidth	Offset	Power
1a (dof)	5.000 MHz		22.89 dBm
Tx Total			22.89 dBm

TM3p3, 5 MHz, low channel



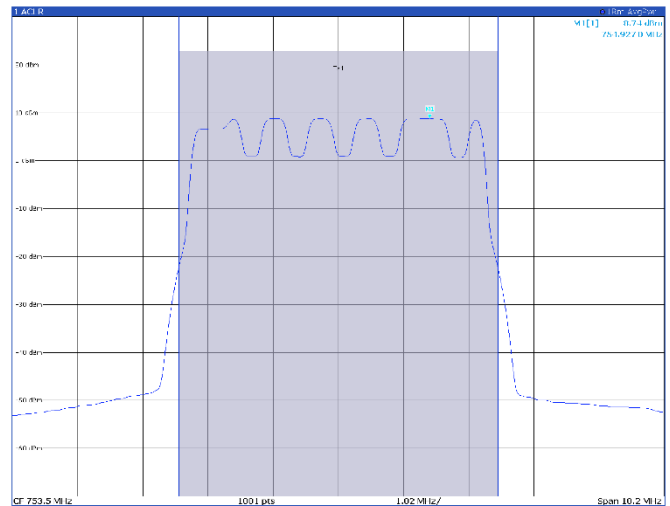
2 Result Summary			
Channel	Bandwidth	Offset	Power
3a (dof)	5.000 MHz		22.75 dBm
Tx Total			22.75 dBm

TM3p3, 5 MHz, mid channel



2 Result Summary			
Channel	Bandwidth	Offset	Power
3a (dof)	5.000 MHz		22.87 dBm
Tx Total			22.87 dBm

TM3p3, 5 MHz, high channel

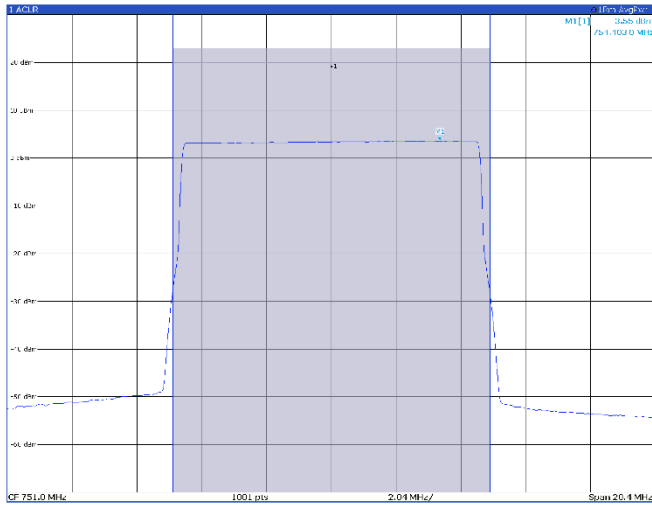


2 Result Summary			
Channel	Bandwidth	Offset	Power
3a (dof)	5.000 MHz		22.89 dBm
Tx Total			22.89 dBm

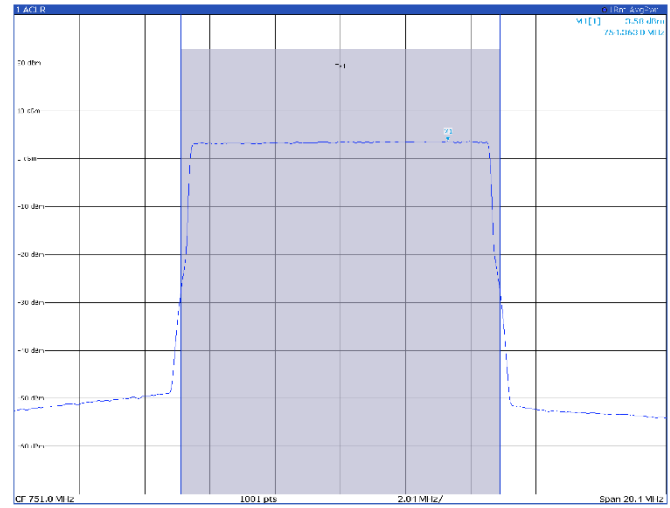
Band n13

10 MHz

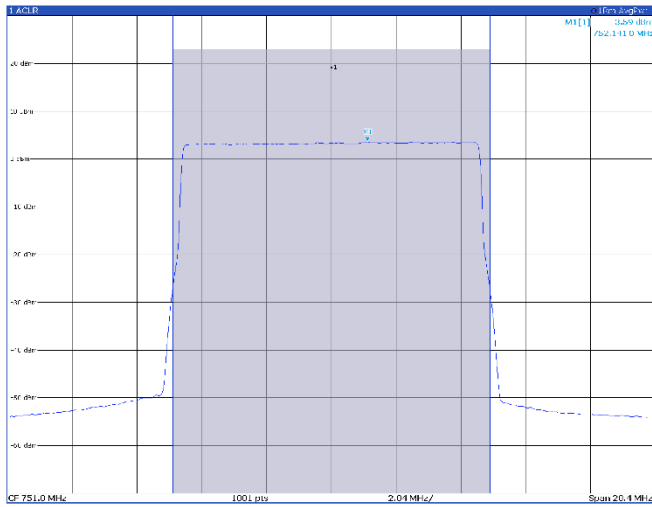
TM1.1, 10 MHz, mid channel



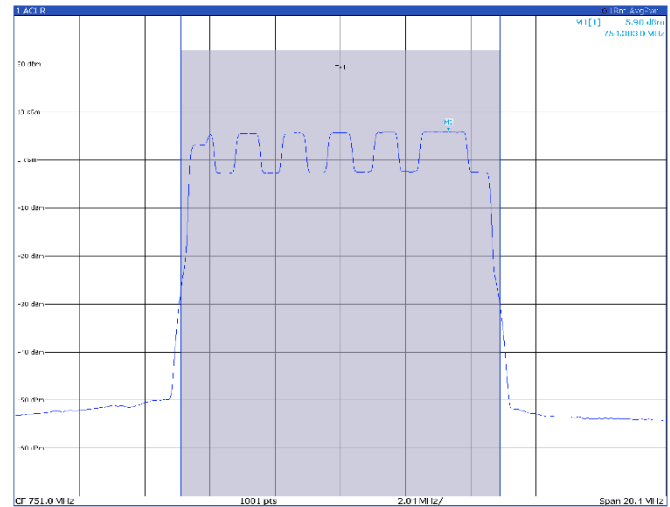
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel



8.5 FCC §27.50(d)(5) Peak to Average Power Ratio

8.5.1 Definitions and limits

d) (5) Equipment employed must be authorized in accordance with the provisions of § 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

(6) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, and any other relevant factors, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

8.5.2 Test summary

Test start date	November 20, 2024	Temperature	22 °C
Test end date	December 13, 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 n13:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	5 MHz	1	748.5	8.44	13	-4.56
n13	5 MHz	1	751.0	8.38	13	-4.62
n13	5 MHz	1	753.5	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)
n13	5 MHz	1	748.5	8.36	13	-4.64
n13	5 MHz	1	751.0	8.38	13	-4.62
n13	5 MHz	1	753.5	8.38	13	-4.62

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	5 MHz	1	748.5	8.36	13	-4.64
n13	5 MHz	1	751.0	8.44	13	-4.56
n13	5 MHz	1	753.5	8.46	13	-4.54

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	5 MHz	1	748.5	8.46	13	-4.54
n13	5 MHz	1	751.0	8.58	13	-4.42
n13	5 MHz	1	753.5	8.46	13	-4.54

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	1	n/a	-	-	-
n13	10 MHz	1	751.0	8.44	13	-4.56
n13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	1	n/a	-	-	-
n13	10 MHz	1	751.0	8.34	13	-4.66
n13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	1	n/a	-	-	-
n13	10 MHz	1	751.0	8.38	13	-4.62
n13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	1	n/a	-	-	-
n13	10 MHz	1	751.0	8.48	13	-4.52
n13	10 MHz	1	n/a	-	-	-

Peak to average power ratio, TM3p3

Antenna 2

Band n13:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	5 MHz	2	748.5	8.40	13	-4.60
n13	5 MHz	2	751.0	8.42	13	-4.58
n13	5 MHz	2	753.5	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)
n13	5 MHz	2	748.5	8.40	13	-4.60
n13	5 MHz	2	751.0	8.34	13	-4.66
n13	5 MHz	2	753.5	8.38	13	-4.62

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	5 MHz	2	748.5	8.46	13	-4.54
n13	5 MHz	2	751.0	8.48	13	-4.52
n13	5 MHz	2	753.5	8.48	13	-4.52

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	5 MHz	2	748.5	8.50	13	-4.50
n13	5 MHz	2	751.0	8.48	13	-4.52
n13	5 MHz	2	753.5	8.56	13	-4.64

Peak to average power ratio, TM3p3

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	2	n/a	-	-	-
n13	10 MHz	2	751.0	8.52	13	-4.48
n13	10 MHz	2	n/a	-	-	-

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	2	n/a	-	-	-
n13	10 MHz	2	751.0	8.36	13	-4.64
n13	10 MHz	2	n/a	-	-	-

Peak to average power ratio, TM3p1

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	2	n/a	-	-	-
n13	10 MHz	2	751.0	8.44	13	-4.56
n13	10 MHz	2	n/a	-	-	-

Peak to average power ratio, TM3p1a

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
n13	10 MHz	2	n/a	-	-	-
n13	10 MHz	2	751.0	8.40	13	-4.60
n13	10 MHz	2	n/a	-	-	-

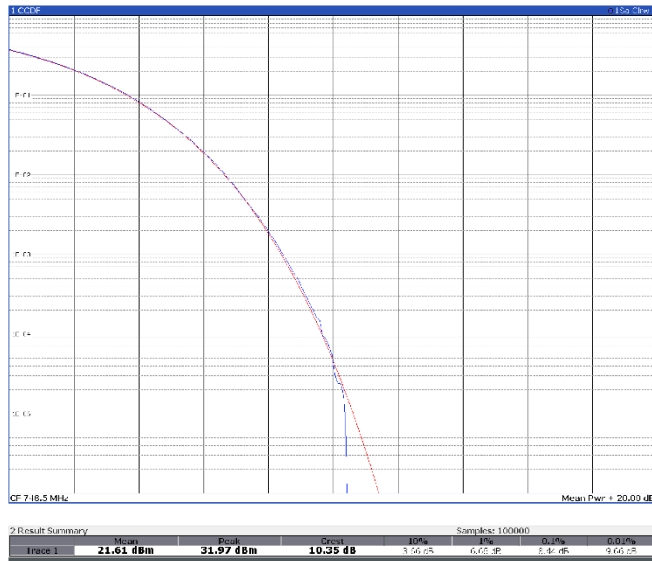
Peak to average power ratio, TM3p3

Antenna port 1

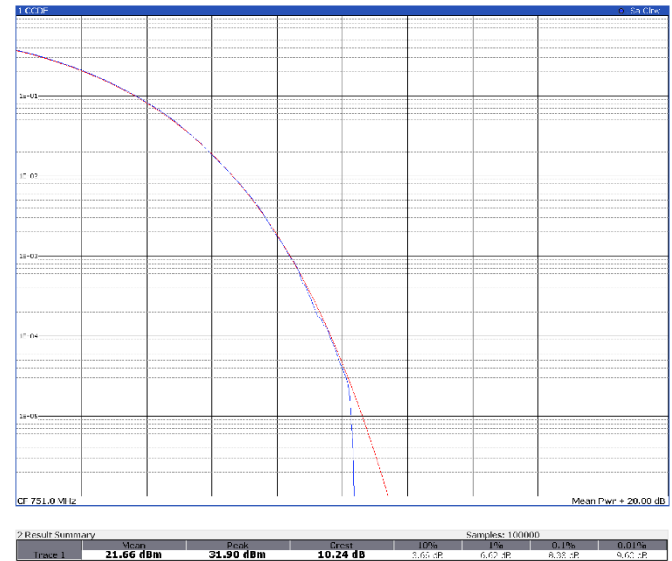
Band n13

5 MHz

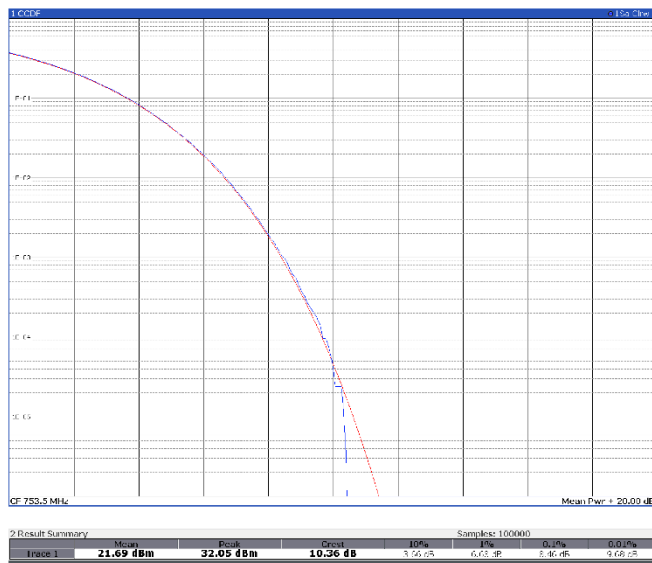
TM1.1, 5 MHz, low channel



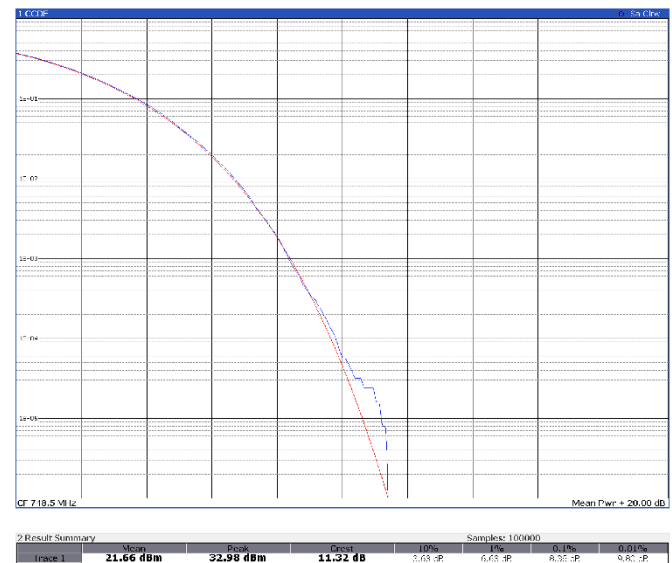
TM1.1, 5 MHz, mid channel



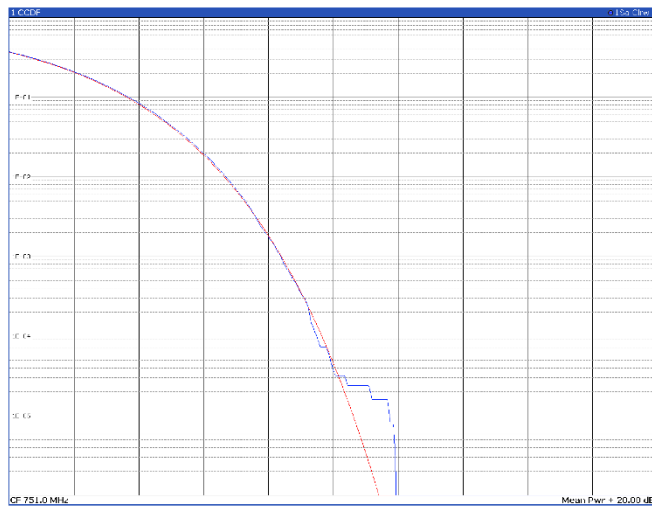
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

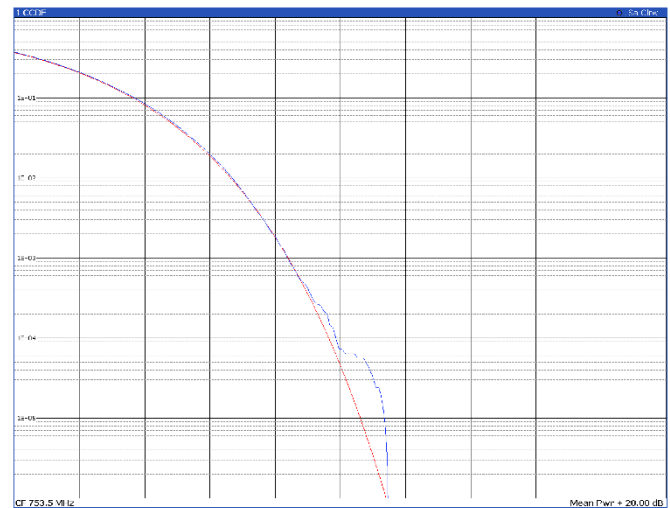


TM3p1, 5 MHz, mid channel



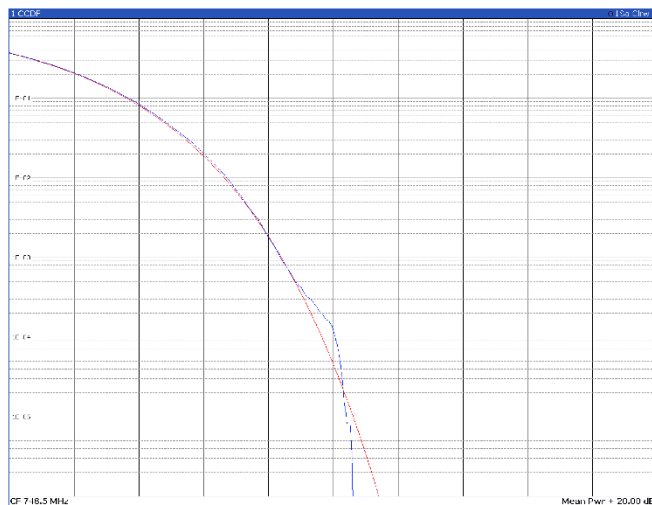
2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.69 dBm	33.57 dBm	11.88 dB
			3.58 dB
			0.01%
			0.01%
			0.01%

TM3p1, 5 MHz, high channel



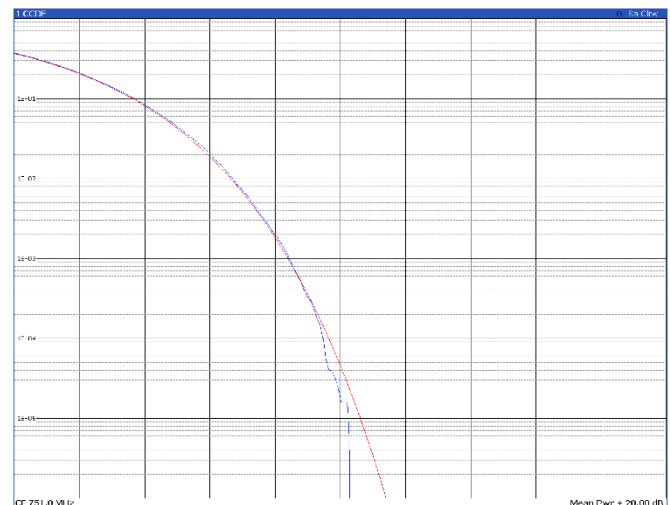
2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.59 dBm	32.94 dBm	11.35 dB
			3.63 dB
			0.01%
			0.01%
			0.01%

TM3p1a, 5 MHz, low channel



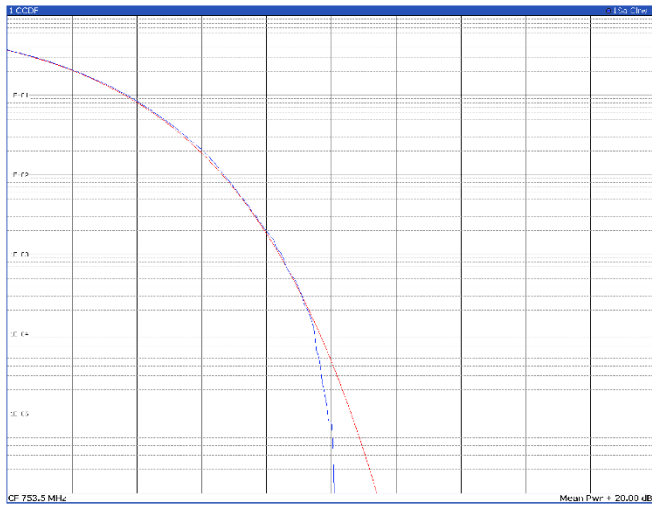
2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.60 dBm	32.27 dBm	10.47 dB
			3.58 dB
			0.01%
			0.01%
			0.01%

TM3p1a, 5 MHz, mid channel



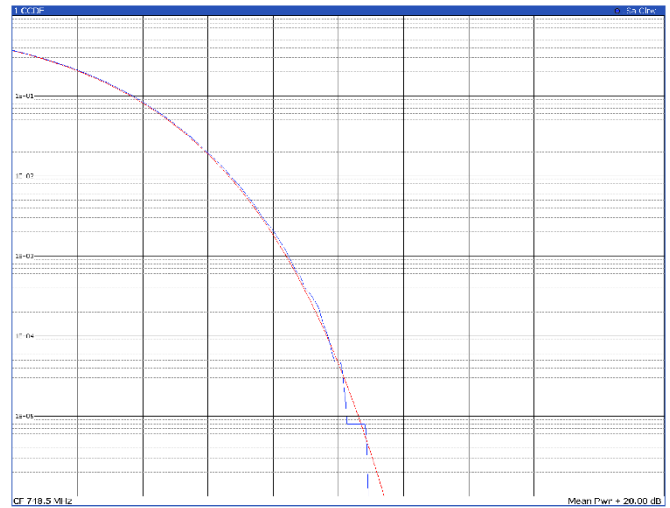
2 Result Summary		Sample: 100000	
Mean	Peak	Crest	10%
Trace 1	21.82 dBm	32.05 dBm	10.23 dB
			3.63 dB
			0.01%
			0.01%
			0.01%

TM3p1a, 5 MHz, high channel



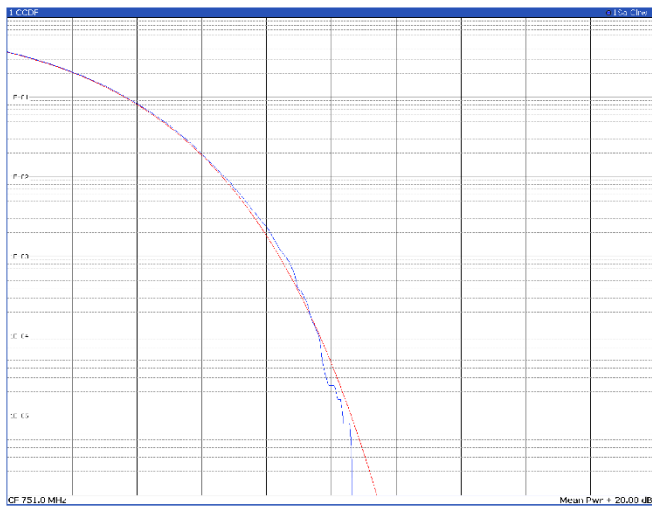
2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	21.65 dBm	31.62 dBm	9.97 dB
			5.70 dB
			0.63 dB
			0.46 dB
			0.40 dB

TM3p3, 5 MHz, low channel



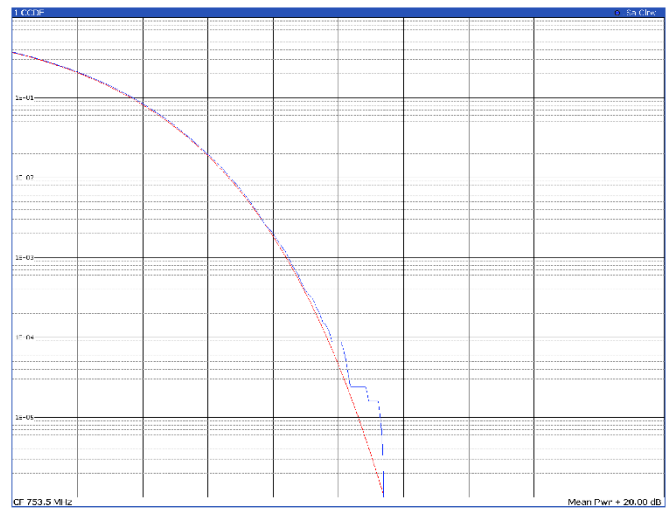
2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	21.77 dBm	32.63 dBm	10.86 dB
			5.63 dB
			0.63 dB
			0.46 dB
			0.40 dB

TM3p3, 5 MHz, mid channel



2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	21.84 dBm	32.42 dBm	10.58 dB
			5.66 dB
			0.72 dB
			0.58 dB
			0.40 dB

TM3p3, 5 MHz, high channel

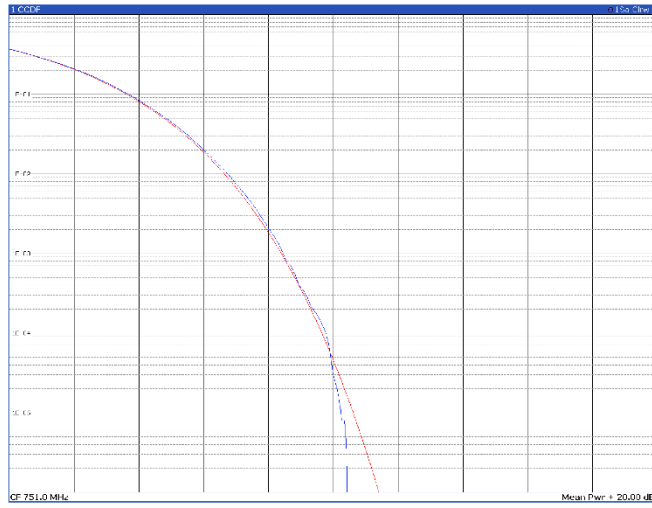


2 Result Summary		Samples: 100000	
Mean	Peak	Crest	10%
Trace 1	21.75 dBm	33.02 dBm	11.26 dB
			5.71 dB
			0.63 dB
			0.46 dB
			0.40 dB

Band n13

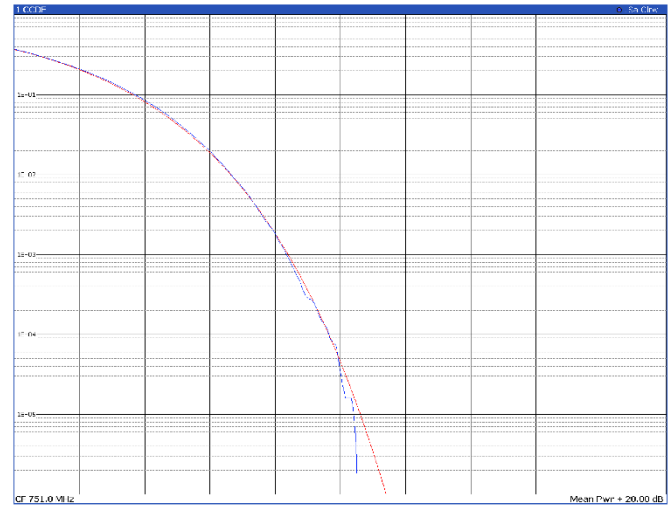
10 MHz

TM1.1, 10 MHz, mid channel



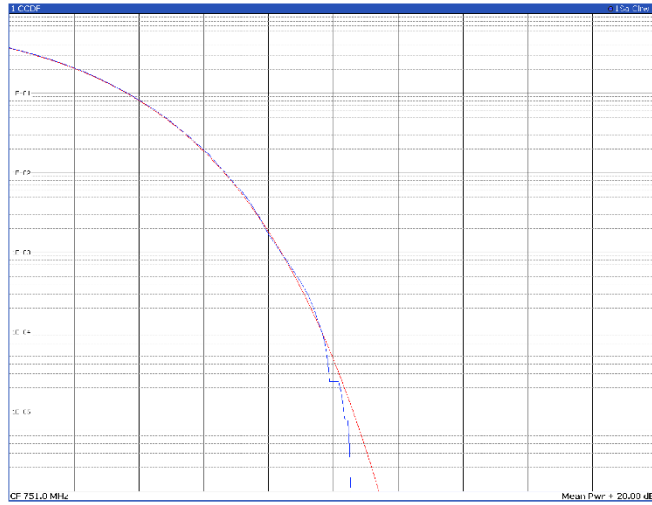
Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.49 dBm	28.76 dBm	10.29 dB	3.56 dB	6.74 dB	8.48 dB	9.56 dB

TM3p1, 10 MHz, mid channel



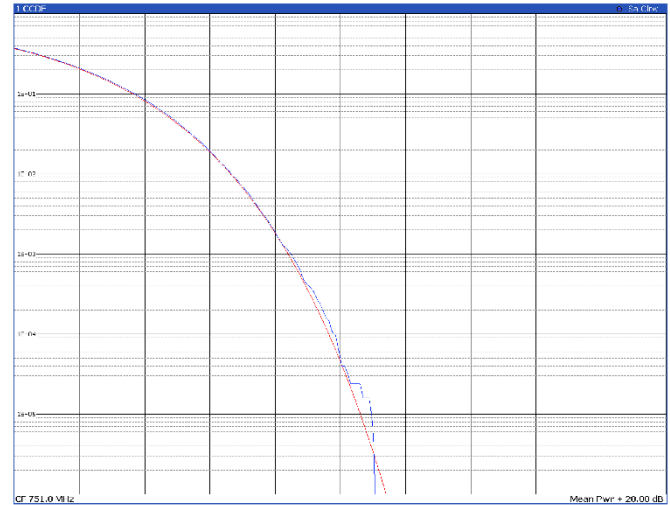
Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.49 dBm	28.96 dBm	10.46 dB	3.70 dB	6.64 dB	8.34 dB	9.64 dB

TM3p1a, 10 MHz, mid channel



Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.49 dBm	28.91 dBm	10.42 dB	3.64 dB	6.60 dB	8.38 dB	9.64 dB

TM3p3, 10 MHz, mid channel



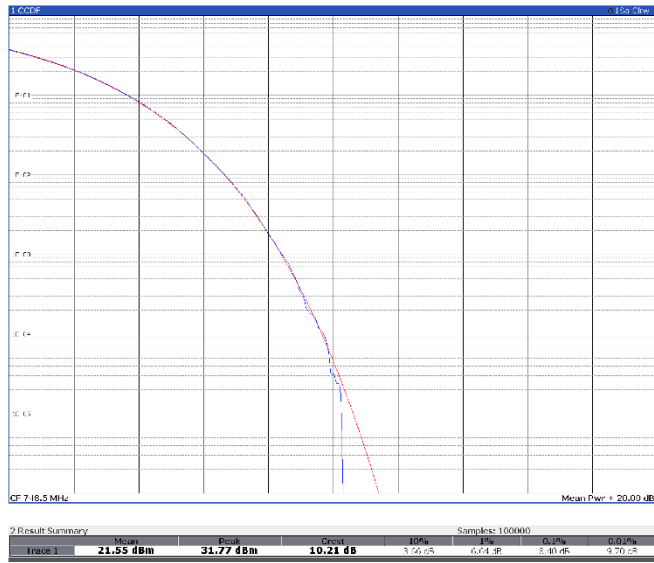
Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	10.49 dBm	29.86 dBm	10.97 dB	3.83 dB	6.60 dB	8.45 dB	9.60 dB

Antenna port 2

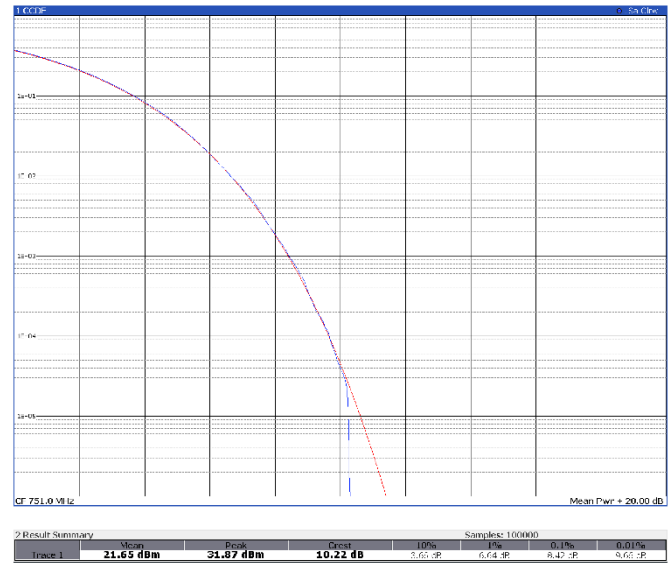
Band n13

5 MHz

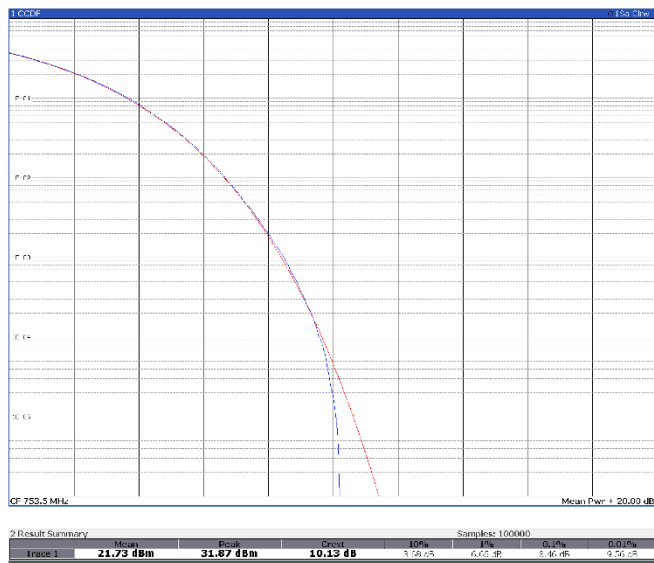
TM1.1, 5 MHz, low channel



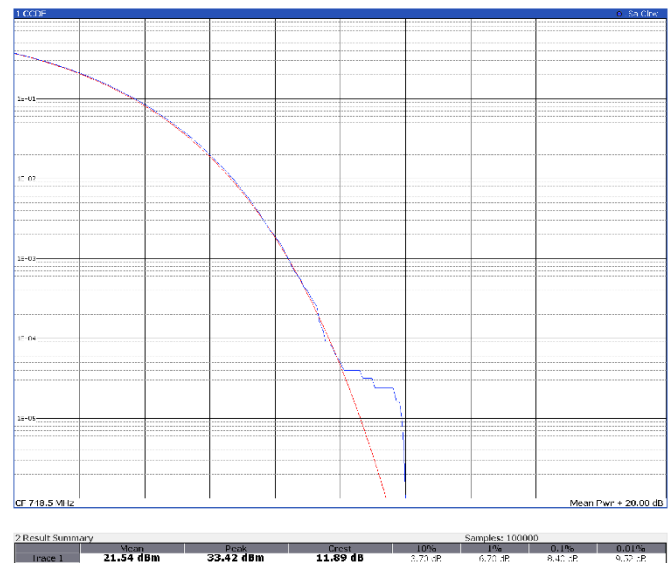
TM1.1, 5 MHz, mid channel



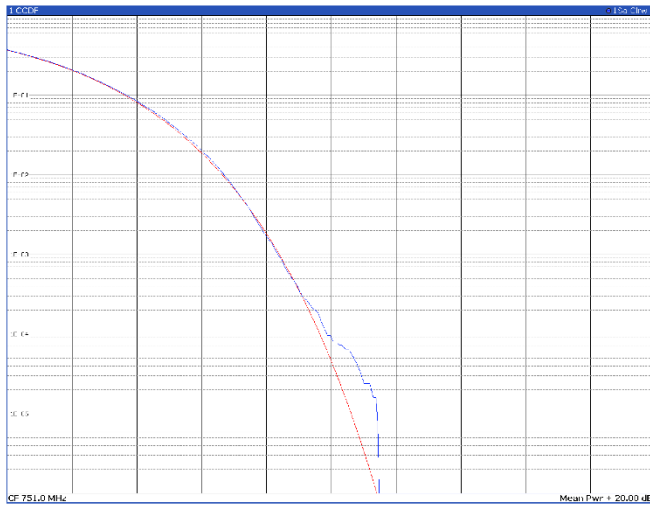
TM1.1, 5 MHz, high channel



TM3p1, 5 MHz, low channel

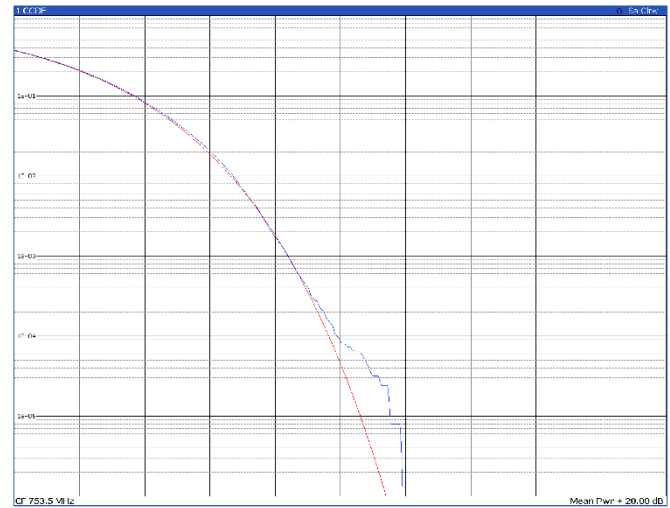


TM3p1, 5 MHz, mid channel



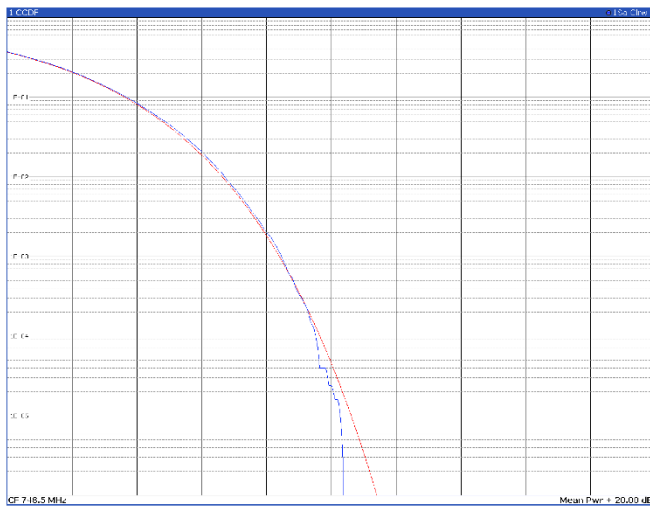
2 Result Summary		Sample: 100000	
Mean	Peak	Dist	10%
Trace 1	21.69 dBm	33.10 dBm	11.41 dB
			1.0%
			0.1%
			0.01%

TM3p1, 5 MHz, high channel



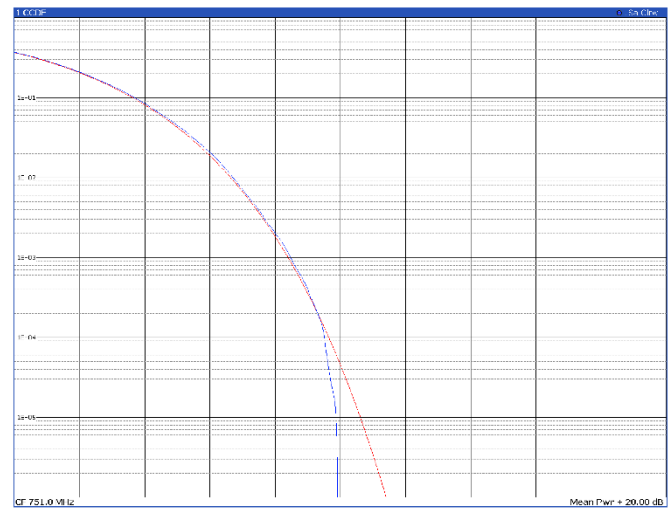
2 Result Summary		Sample: 100000	
Mean	Peak	Dist	10%
Trace 1	21.71 dBm	33.54 dBm	11.83 dB
			1.0%
			0.1%
			0.01%

TM3p1a, 5 MHz, low channel



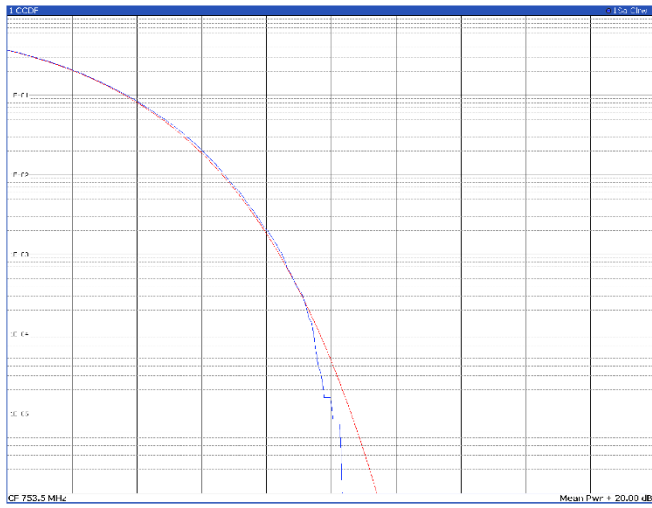
2 Result Summary		Sample: 100000	
Mean	Peak	Dist	10%
Trace 1	21.55 dBm	31.83 dBm	10.28 dB
			1.0%
			0.1%
			0.01%

TM3p1a, 5 MHz, mid channel



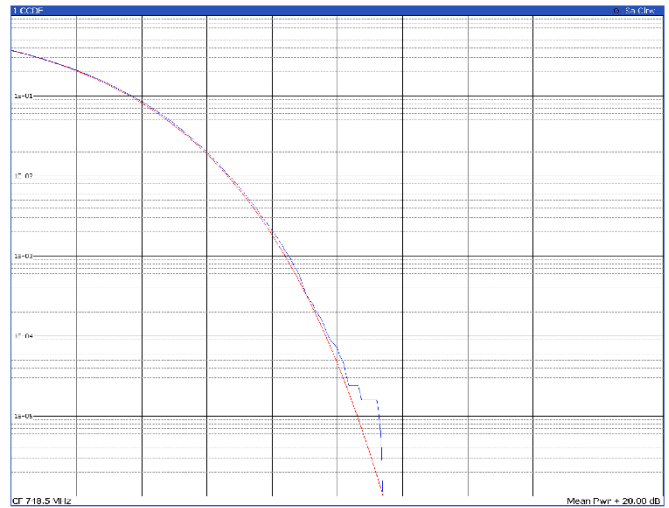
2 Result Summary		Sample: 100000	
Mean	Peak	Dist	10%
Trace 1	21.73 dBm	31.55 dBm	9.82 dB
			1.0%
			0.1%
			0.01%

TM3p1a, 5 MHz, high channel



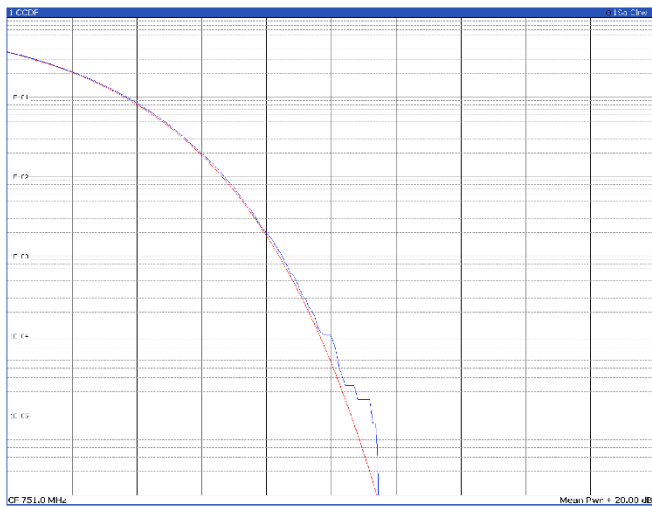
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.69 dBm	31.90 dBm	10.21 dB	5.70 dB	6.72 dB	5.48 dB

TM3p3, 5 MHz, low channel



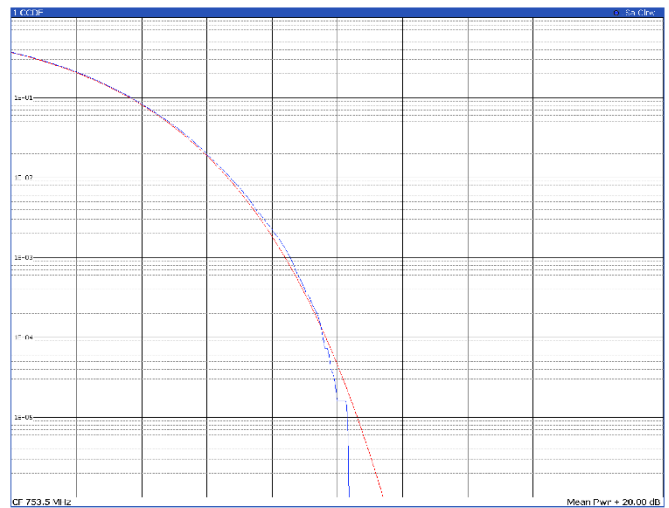
2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.67 dBm	33.00 dBm	11.33 dB	5.63 dB	6.63 dB	5.51 dB

TM3p3, 5 MHz, mid channel



2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.70 dBm	33.06 dBm	11.36 dB	5.70 dB	6.72 dB	5.48 dB

TM3p3, 5 MHz, high channel

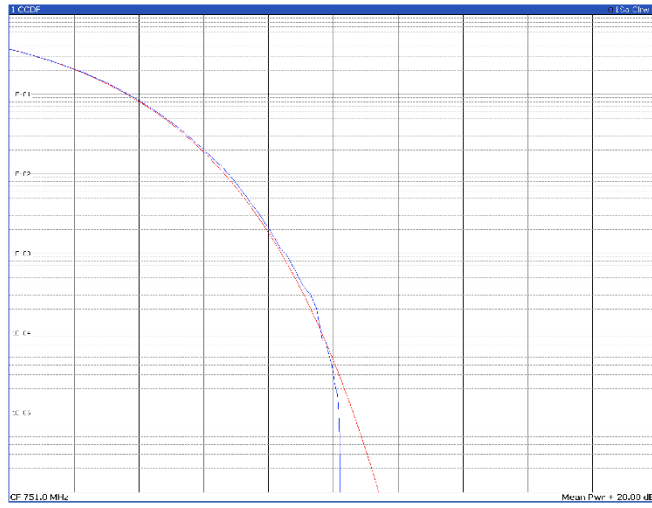


2 Result Summary						
	Mean	Peak	Crest	10%	1%	0.01%
Trace 1	21.85 dBm	32.12 dBm	10.27 dB	5.66 dB	6.72 dB	5.48 dB

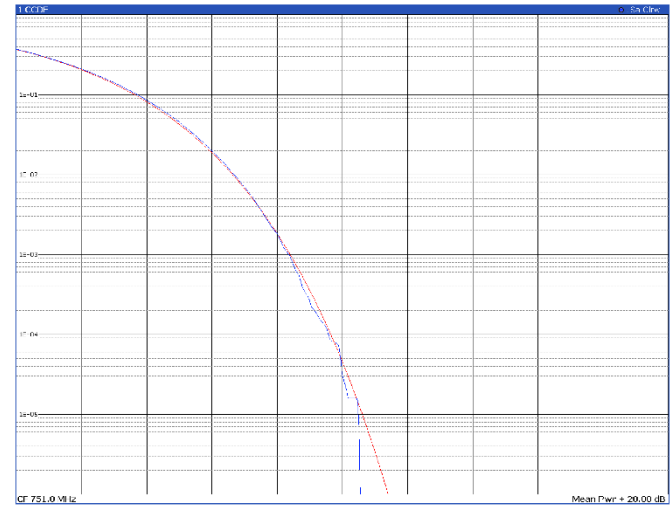
Band n13

10 MHz

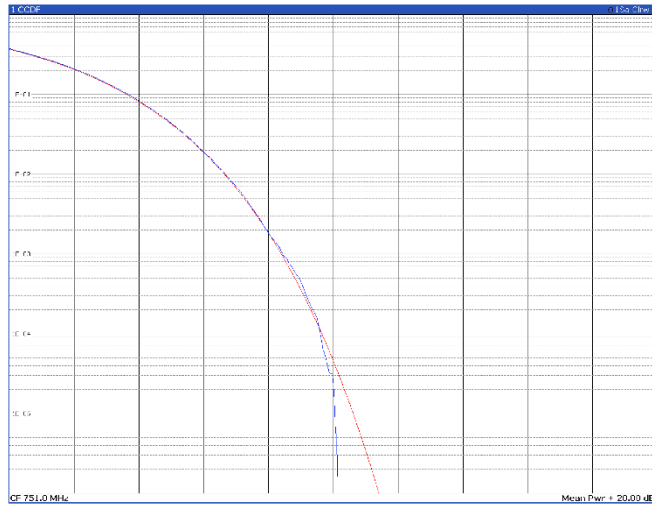
TM1.1, 10 MHz, mid channel



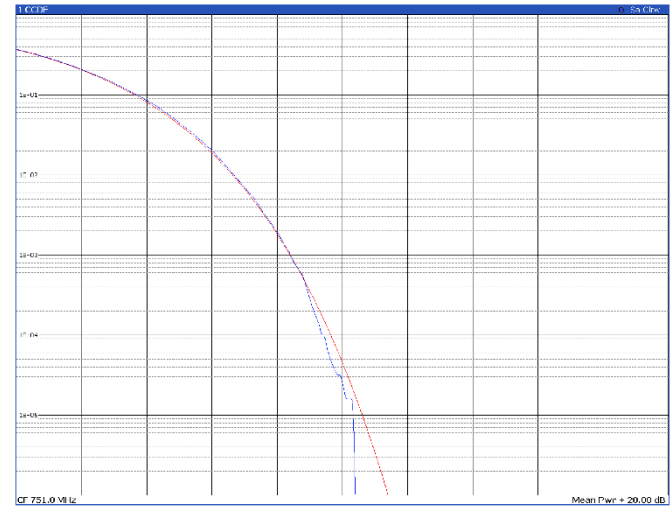
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel



TM3p3, 10 MHz, mid channel



8.6 FCC §27.53(m) Emission Limits

8.6.1 Definitions and limits

(m) For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(2) For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No. 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided that a documented interference complaint cannot be mutually resolved between the parties prior to the applicable deadline, then the following additional attenuation requirements shall apply:

(v) For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge.

(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

8.6.2 Test summary

Test start date	November 20, 2024	Temperature	21 °C
Test end date	December 13, 2024	Air pressure	1005 mbar
Test engineer	O. Frau	Relative humidity	64%
Verdict	Pass		

8.6.3 Observations, settings and special notes

EUT setup configuration	Table top
Test facility	3 m Semi anechoic chamber
Measuring distance	3m
Antenna height variation	1–4 m
Turn table position	0–360°
Measurement details	A preview measurement was generated with receiver in continuous scan or sweep mode while the EUT was rotated and antenna adjusted to maximize radiated emission. Emissions detected within 6 dB or above limit were re-measured with the appropriate detector against the correlating limit and recorded as the final measurement.

Receiver/spectrum analyzer settings for frequencies below 1 GHz:

Resolution bandwidth	120 kHz
Video bandwidth	300 kHz
Detector mode	– Peak (Preview measurement) – Quasi-peak (Final measurement)
Trace mode	Max Hold
Measurement time	– 100 ms (Peak preview measurement) – 5000 ms (Quasi-peak final measurement)

Receiver/spectrum analyzer settings for frequencies above 1 GHz:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Detector mode	Peak (Preview measurement) Peak and Coverage (Final measurement)
Trace mode	Max Hold
Measurement time	– 100 ms (Peak preview measurement) – 5000 ms (Peak and Coverage final measurement)

Spectrum analyzer settings (conducted test):

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	Sufficient for making an accurate measurement
Detector mode	RMS
Trace mode	Max Hold

This test was realized in two parts: one with a conducted setup and another one with a radiated setup.

The conducted test was made on one port at time, transmitting at max power and with the other one loaded with 50 Ω loads. For capturing the signal with the equipment, it was divided in two ranges, using a transducer factor to compensate the losses caused by a cable and attenuator used to protect the test equipment. The first range was measured from 30 MHz to 1 GHz where the fundamental signal is visible; the second range was selected from 1 GHz to 8 GHz. The evaluation was made using the three channels and all the modulations (TM1.1, TM3p1, TM3p1a, and TM3p3).

A 30 dB attenuator was placed between the EUT and spectrum analyzer and compensated for as a reference level offset. Additionally, to correct for MIMO consideration, an additional offset of $10\log(2) = -3.01$ dB was included to compensate for 2 correlated antennas output.

For band edge tests, in the 1 MHz region immediately outside of the authorized band, a resolution bandwidth of approximately 1 – 5 % of the 26 dB bandwidth measured was used.

The radiated test was made transmitting to max power too with the two ports terminated with 50 Ω loads. The scans were made from 30 MHz to 8 GHz considering all the channels but only the bandwidth and modulation with the highest power was showed.

Based on equation $43 + 10 \log_{10}(P)$ dB, the general emission limit is -13 dBm (conducted and radiated test) or the equivalent at 3m is 82.23 dB μ V/m above 1 GHz and 84.38 dB μ V/m below 1 GHz.

8.6.4 Test equipment used

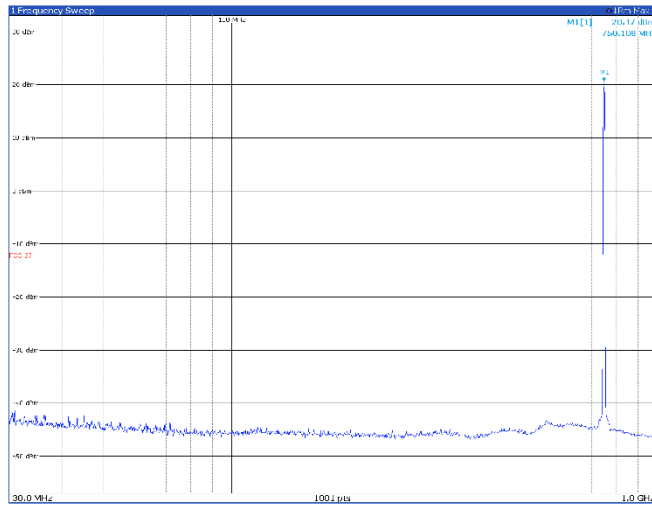
Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767
EMI Receiver	Rohde & Schwarz	ESW44	101620
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263254
RF Vector Signal Generator	Rohde & Schwarz	SMBV100A	263397
Antenna Trilog 25MHz – 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025
Antenna 1 – 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01
Controller	Maturo	FCU3.0	10041
Tilt antenna mast	Maturo	TAM4.0-E	10042
Turntable	Maturo	TT4.0-5T	2.527

8.6.5 Test data

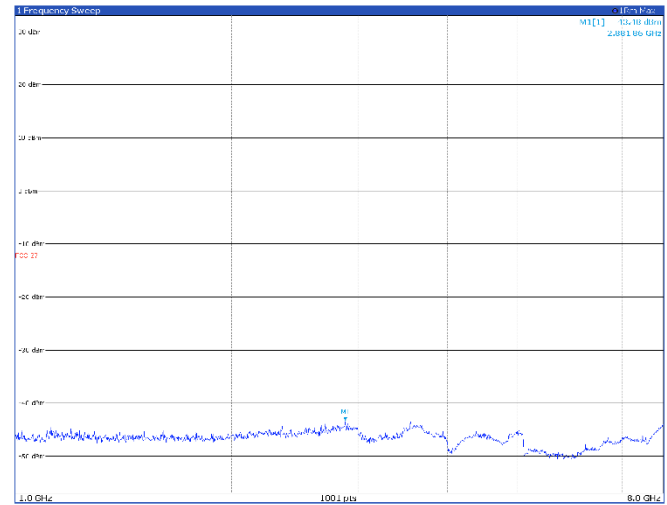
Band n13 – conducted emissions Antenna port 1

5 MHz

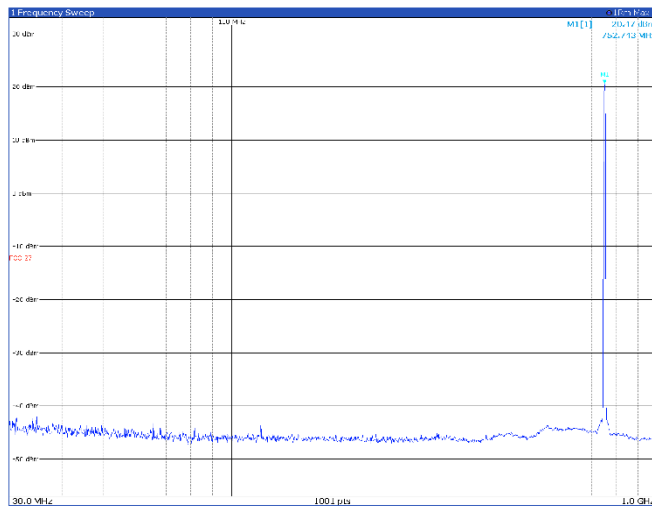
TM1.1, 5 MHz, low channel



Limit exceeded by the carrier



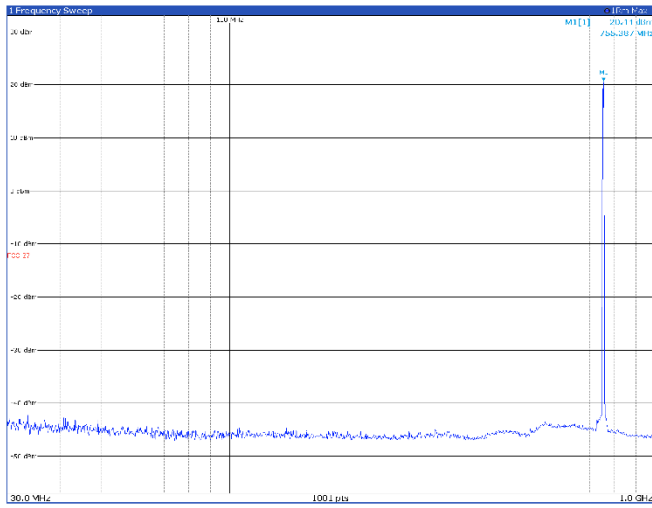
TM1.1, 5 MHz, mid channel



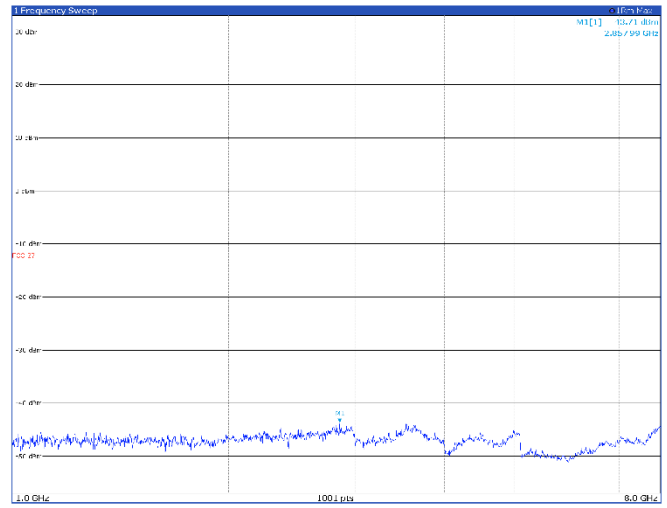
Limit exceeded by the carrier



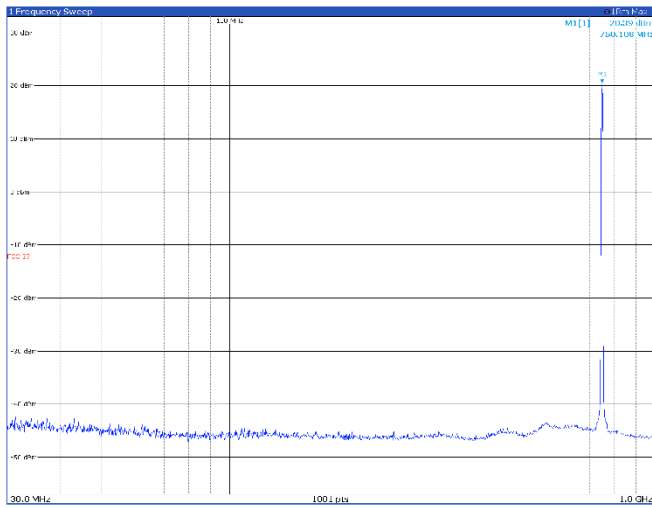
TM1.1, 5 MHz, high channel



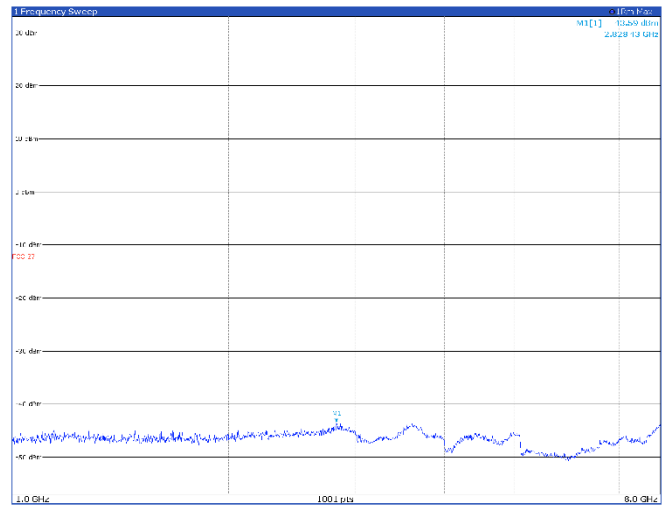
Limit exceeded by the carrier



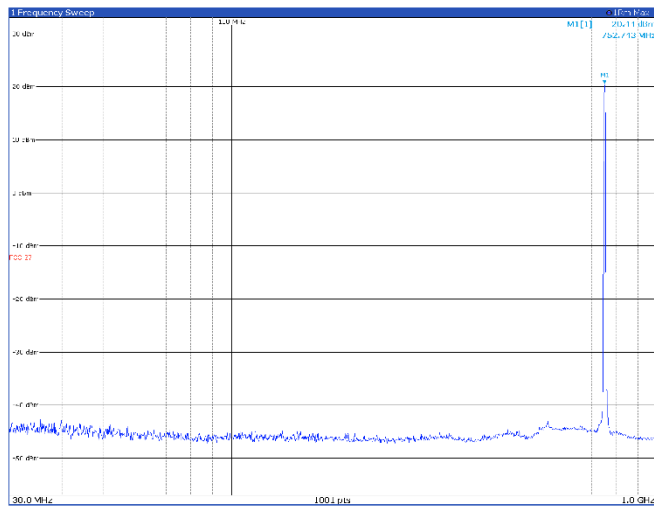
TM3p1, 5 MHz, low channel



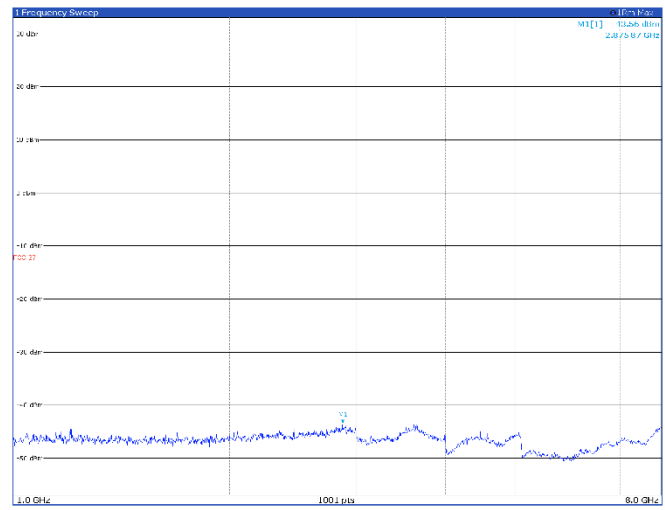
Limit exceeded by the carrier



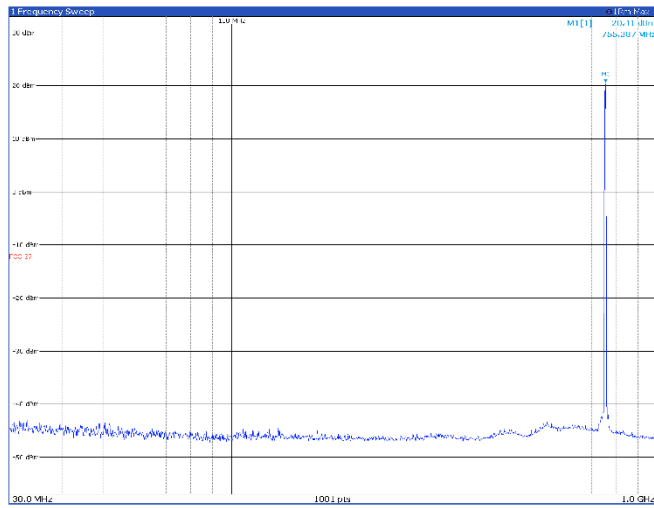
TM3p1, 5 MHz, mid channel



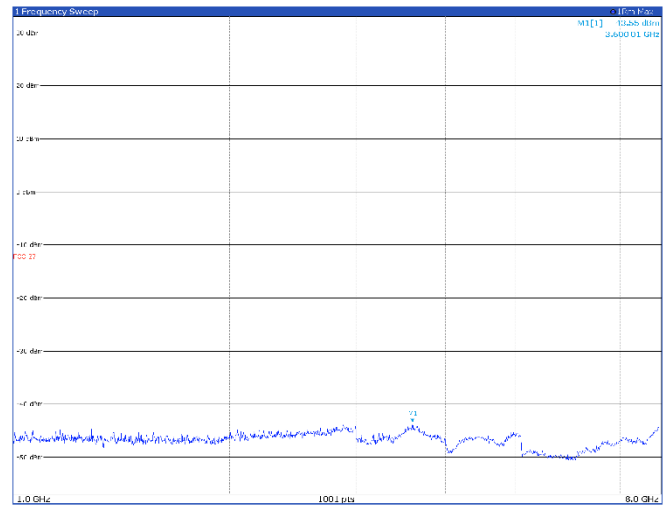
Limit exceeded by the carrier



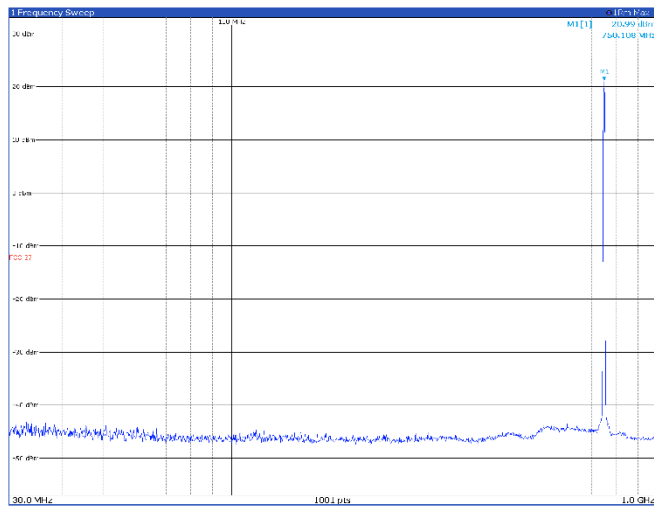
TM3p1, 5 MHz, high channel



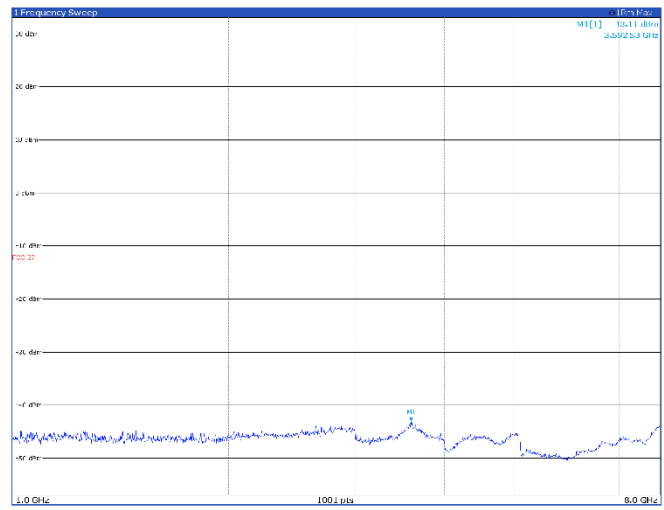
Limit exceeded by the carrier



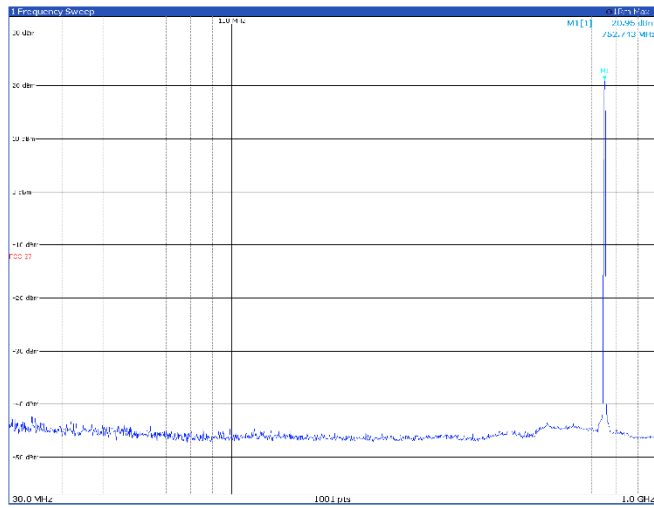
TM3p1a, 5 MHz, low channel



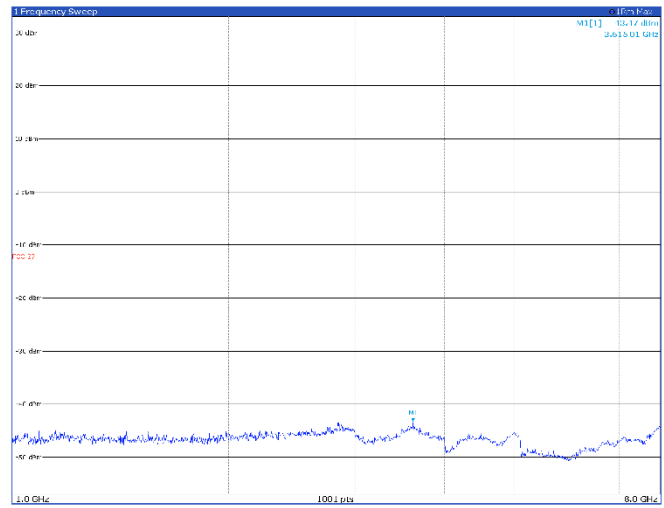
Limit exceeded by the carrier



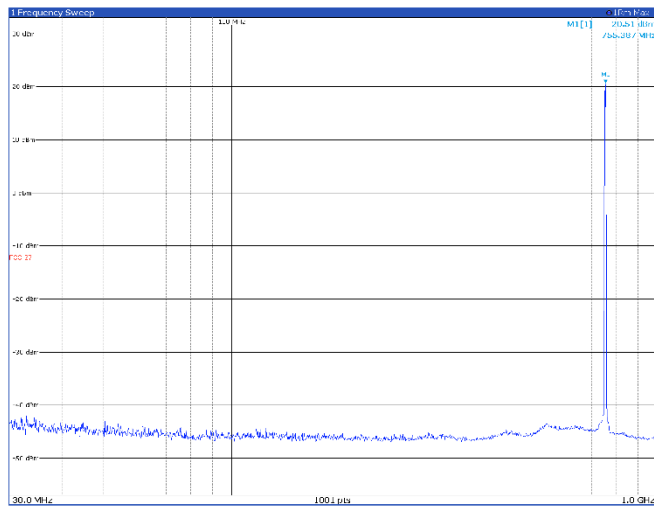
TM3p1a, 5 MHz, mid channel



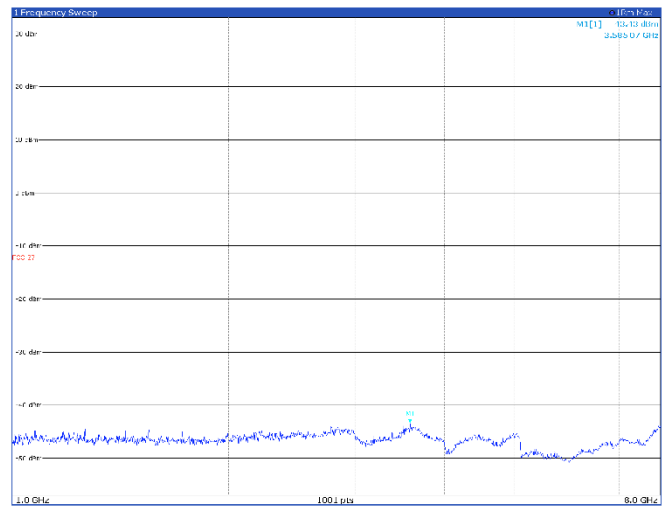
Limit exceeded by the carrier



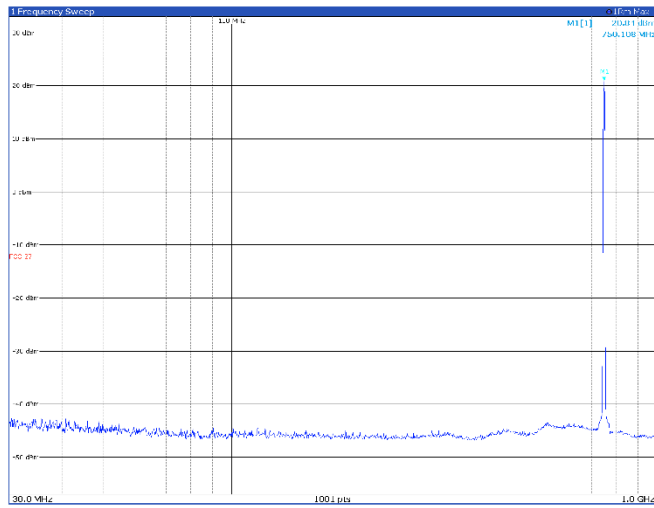
TM3p1a, 5 MHz, high channel



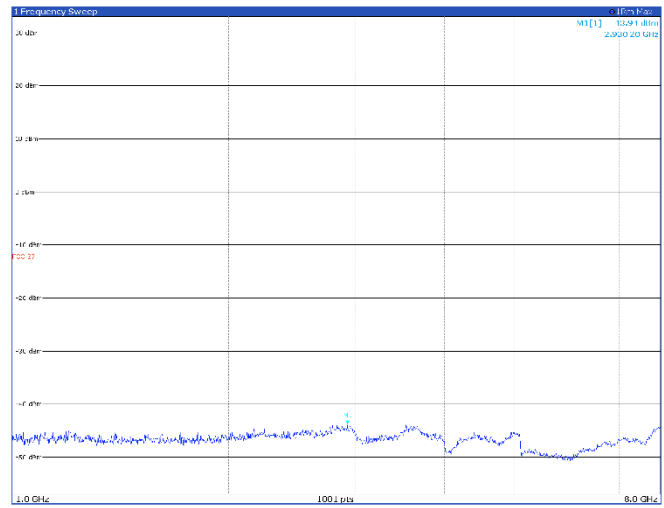
Limit exceeded by the carrier



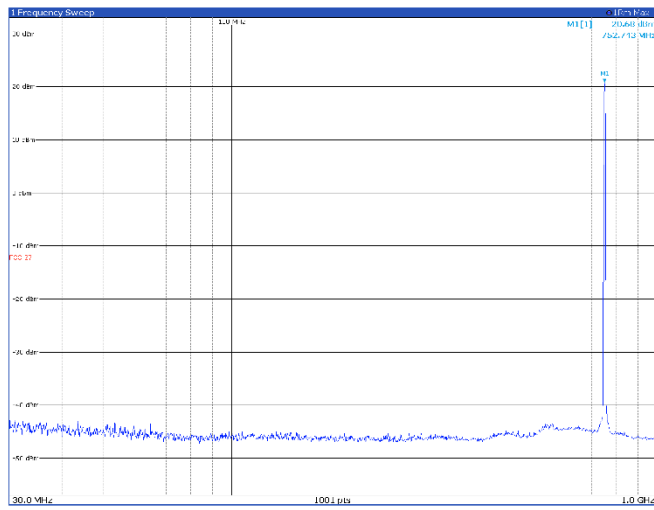
TM3p3, 5 MHz, low channel



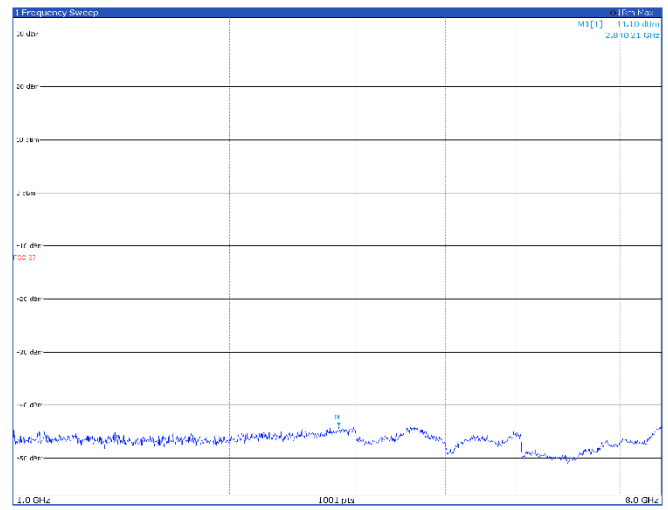
Limit exceeded by the carrier



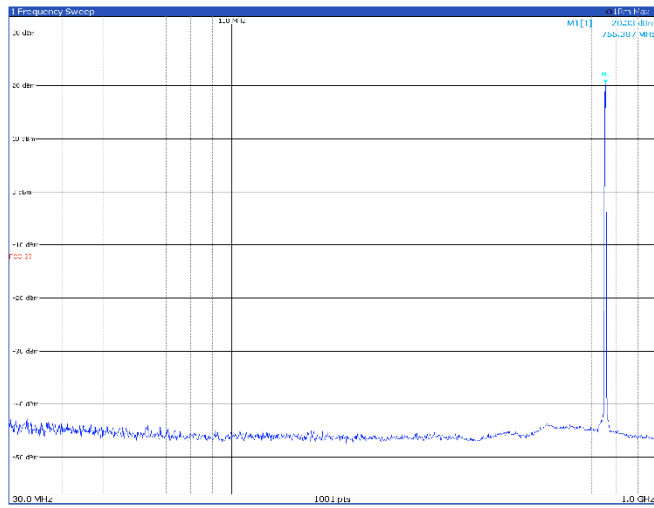
TM3p3, 5 MHz, mid channel



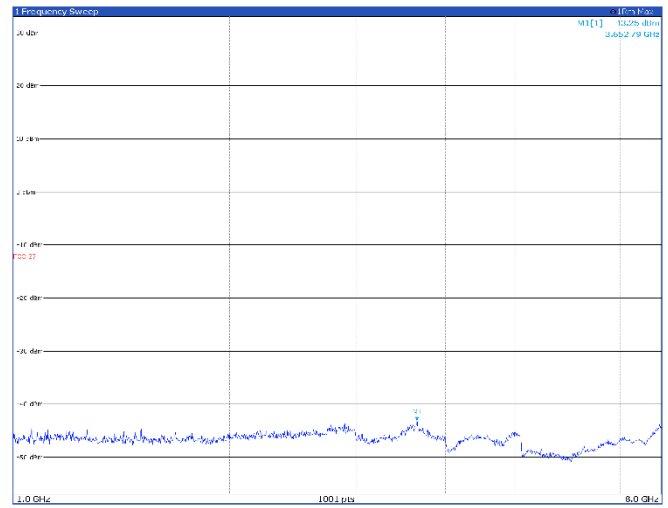
Limit exceeded by the carrier



TM3p3, 5 MHz, high channel



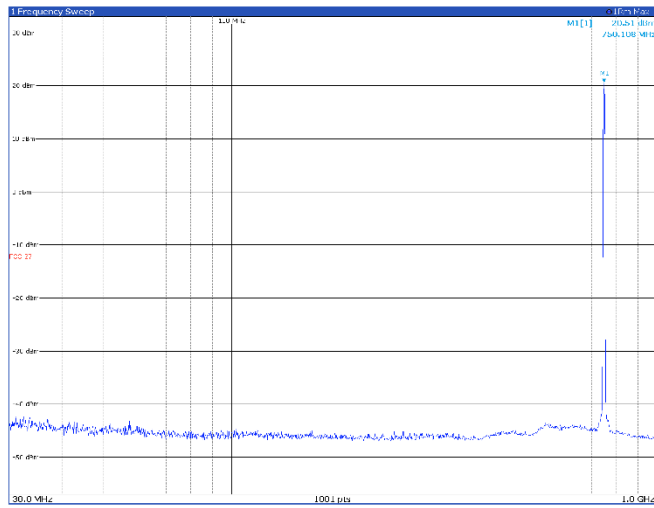
Limit exceeded by the carrier



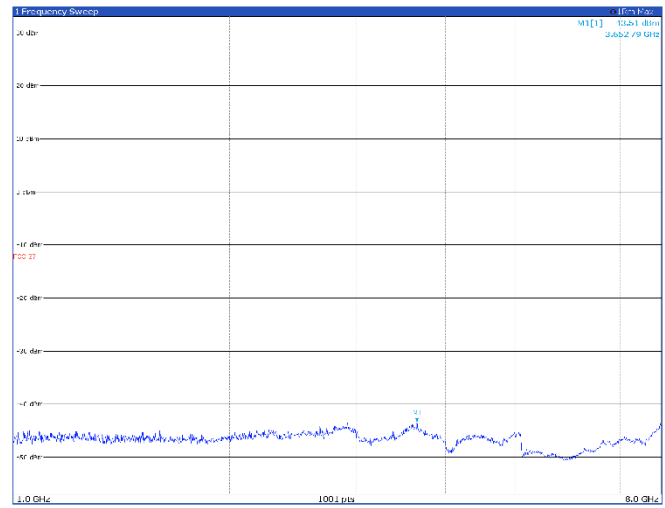
Band n13 – conducted emissions Antenna port 2

5 MHz

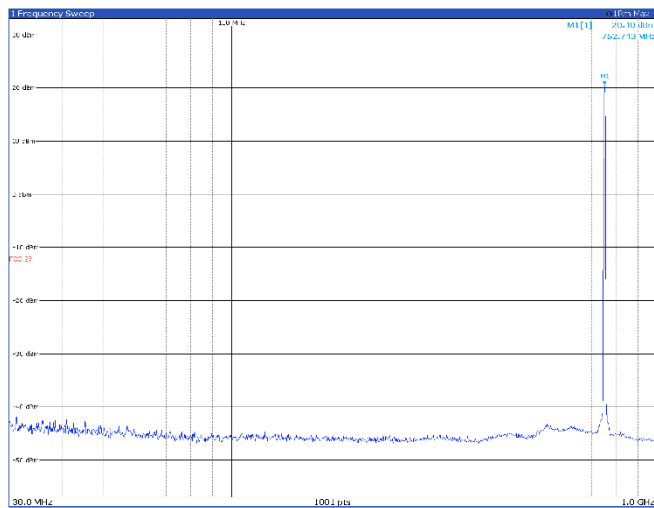
TM1.1, 5 MHz, low channel



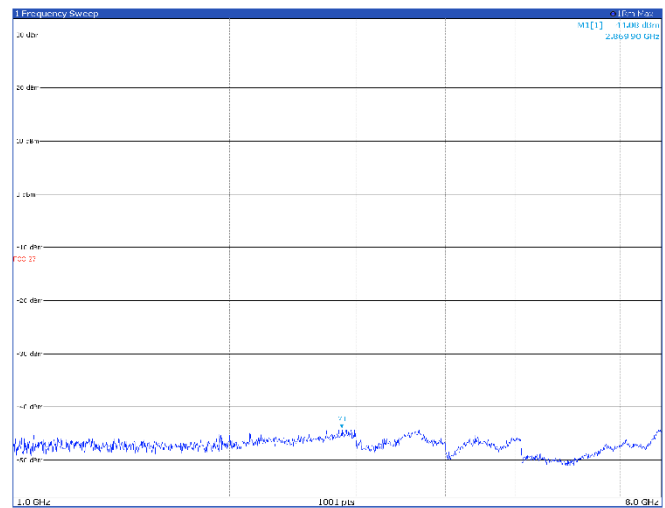
Limit exceeded by the carrier



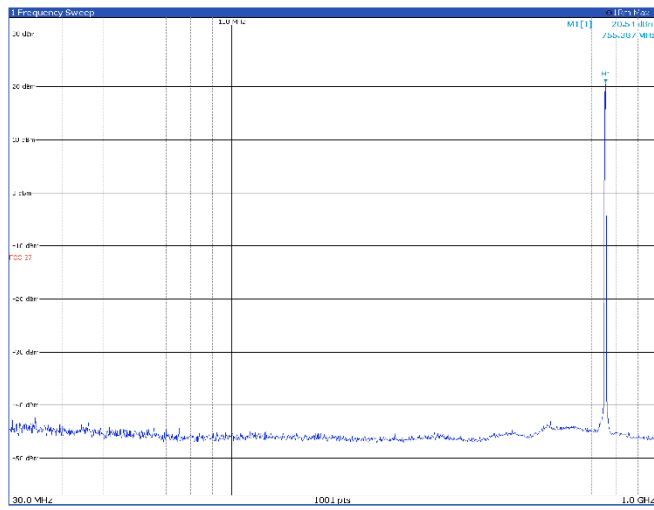
TM1.1, 5 MHz, mid channel



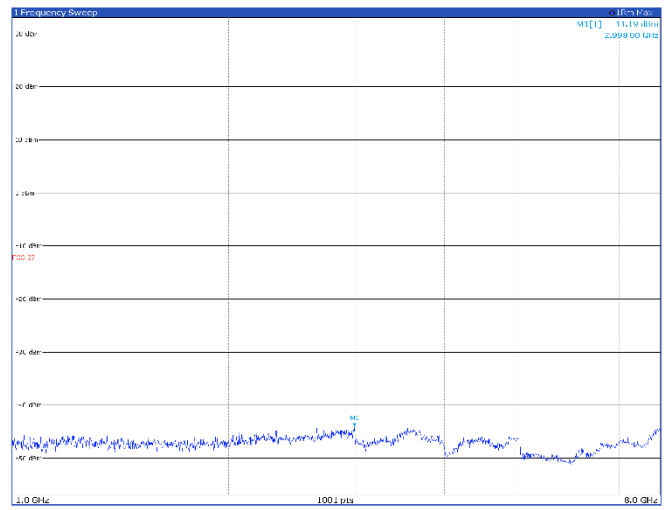
Limit exceeded by the carrier



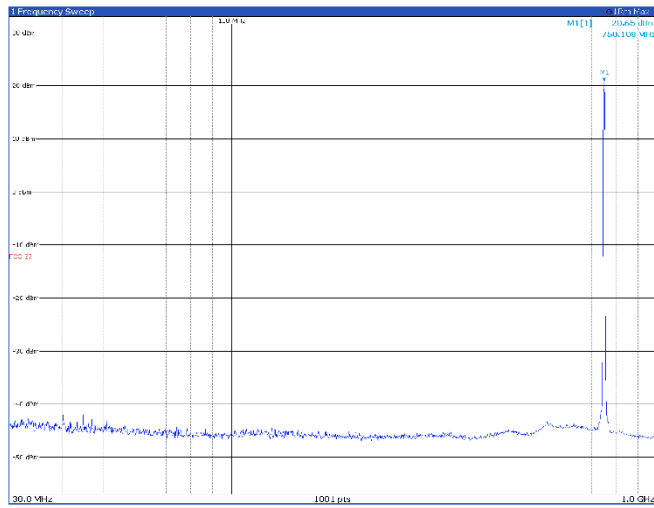
TM1.1, 5 MHz, high channel



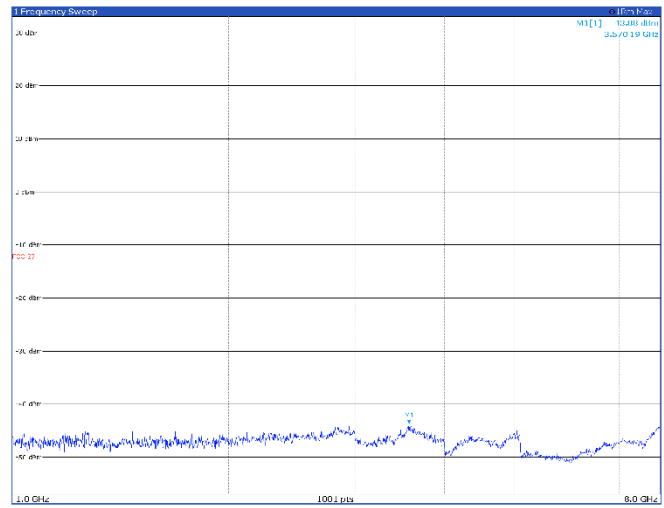
Limit exceeded by the carrier



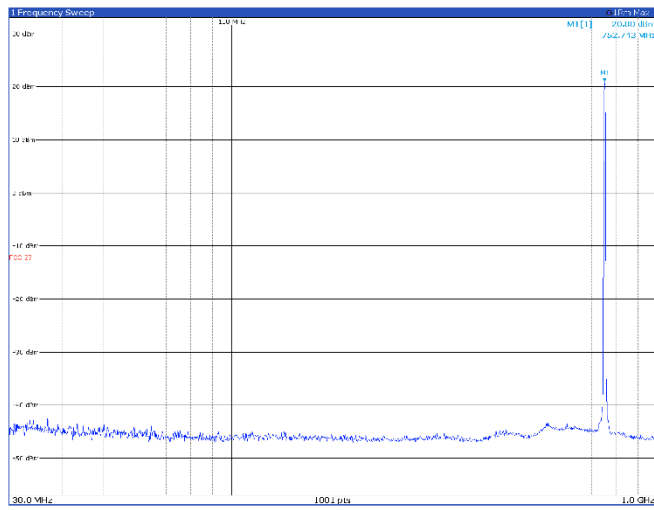
TM3p1, 5 MHz, low channel



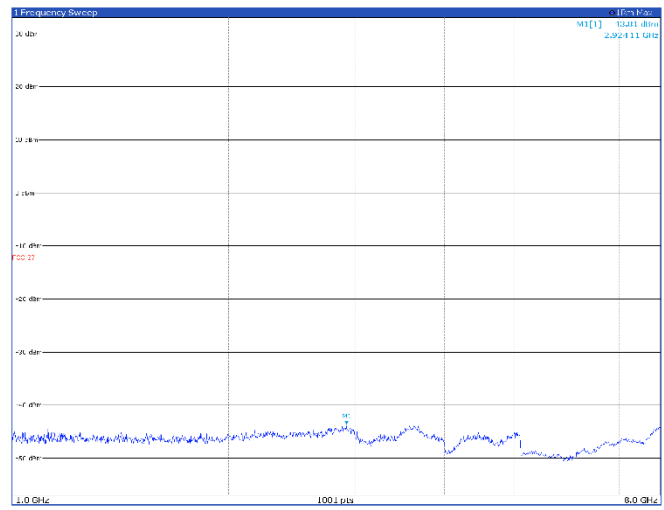
Limit exceeded by the carrier



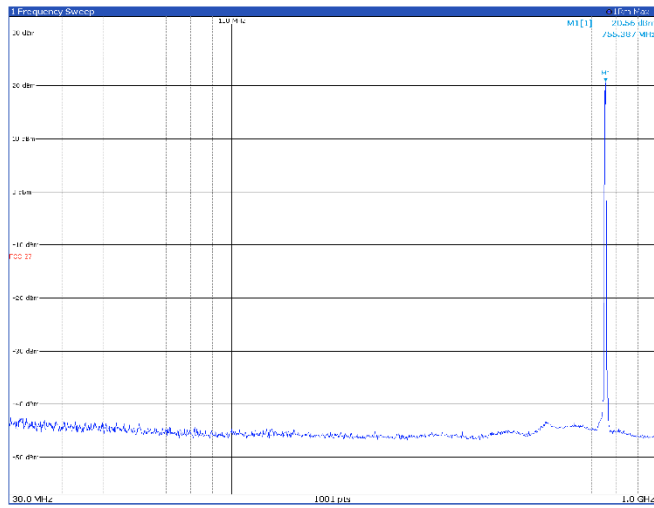
TM3p1, 5 MHz, mid channel



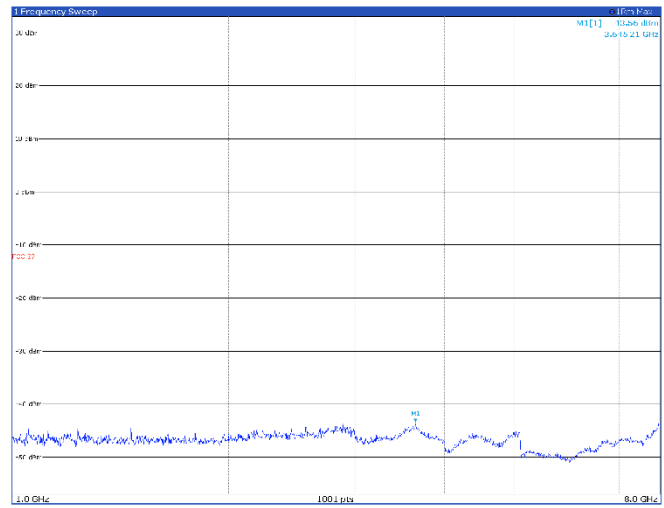
Limit exceeded by the carrier



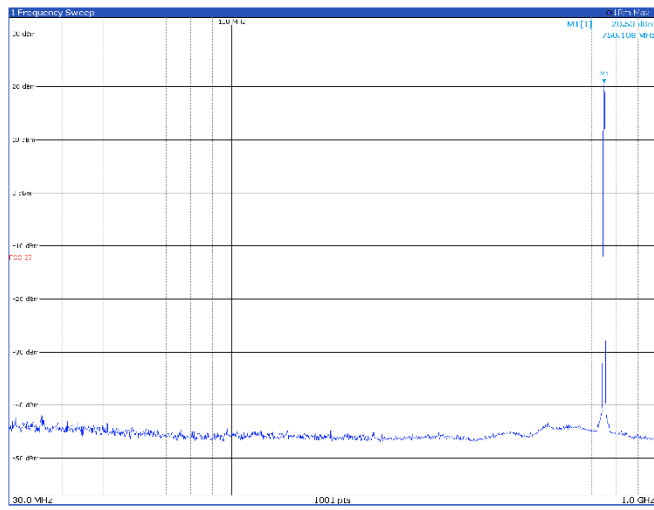
TM3p1, 5 MHz, high channel



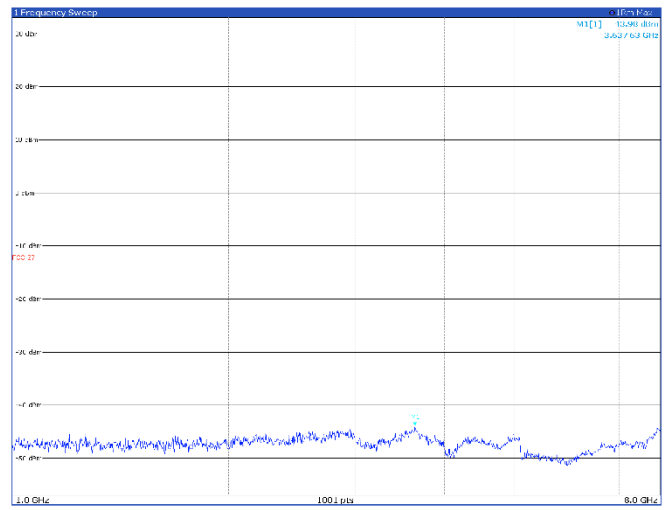
Limit exceeded by the carrier



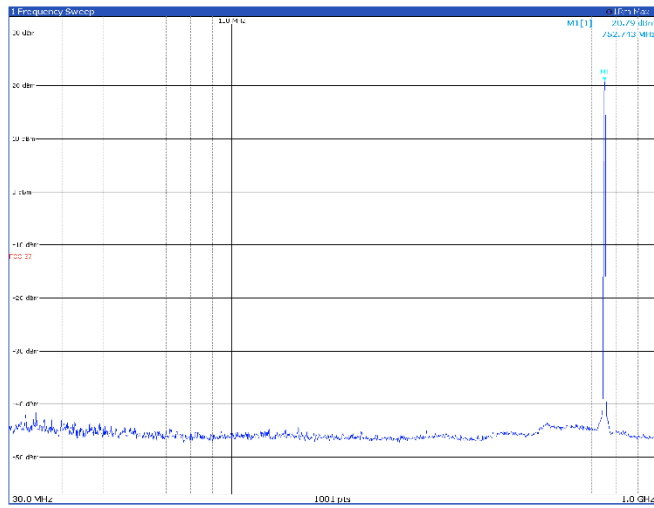
TM3p1a, 5 MHz, low channel



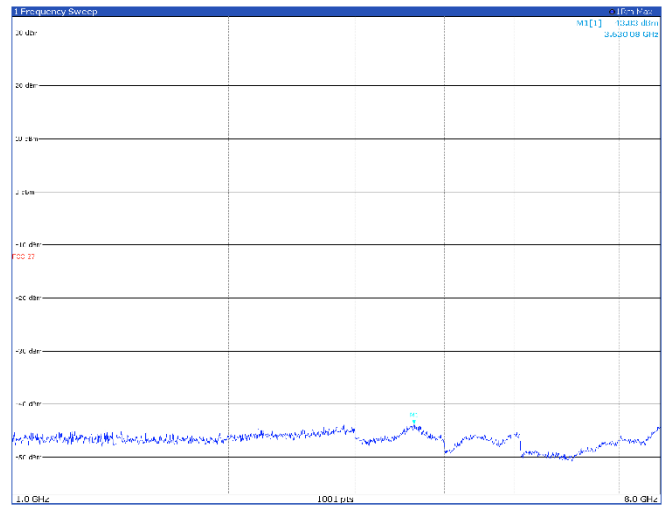
Limit exceeded by the carrier



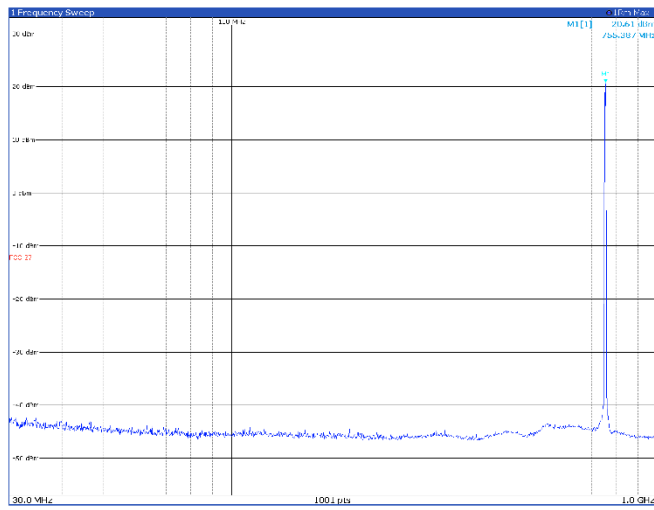
TM3p1a, 5 MHz, mid channel



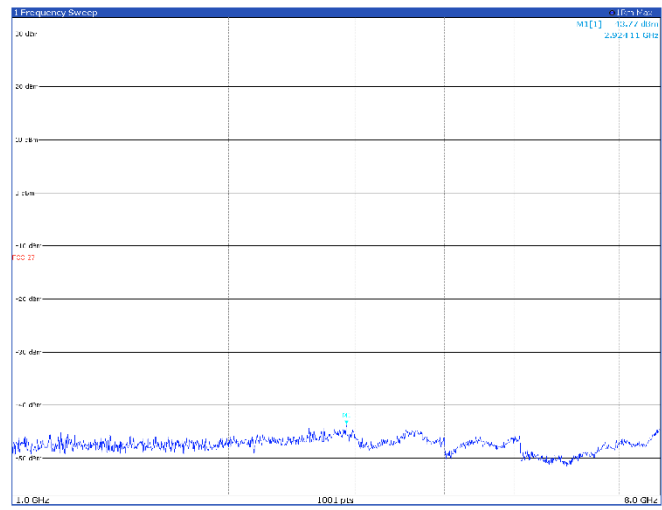
Limit exceeded by the carrier



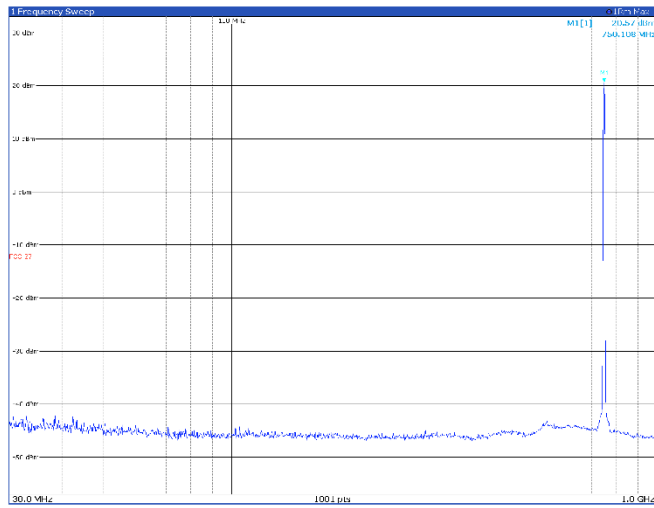
TM3p1a, 5 MHz, high channel



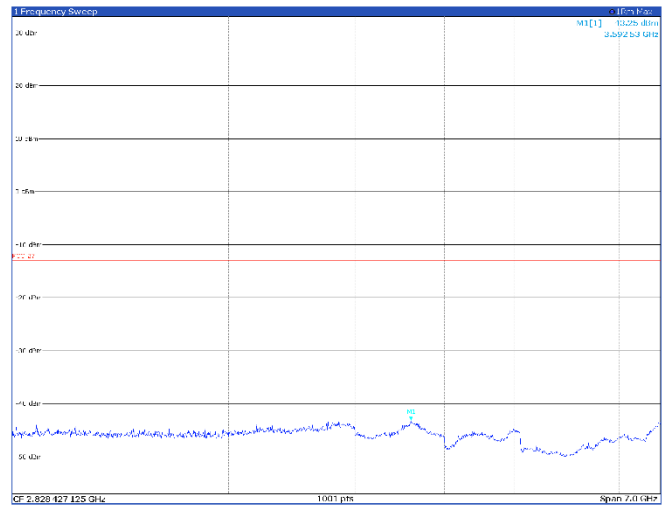
Limit exceeded by the carrier



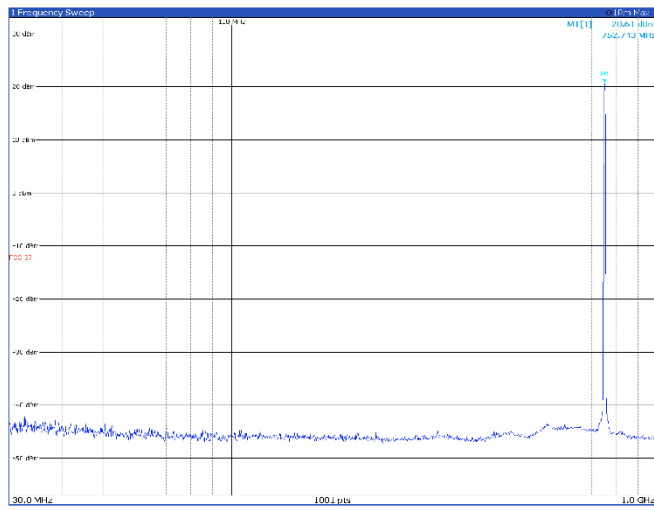
TM3p3, 5 MHz, low channel



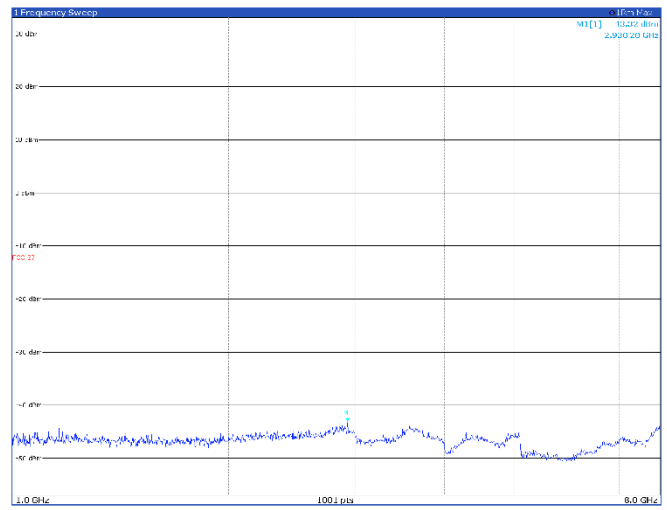
Limit exceeded by the carrier



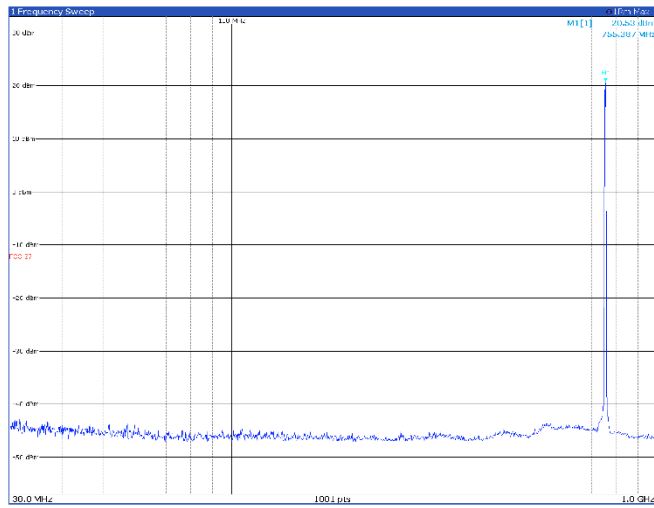
TM3p3, 5 MHz, mid channel



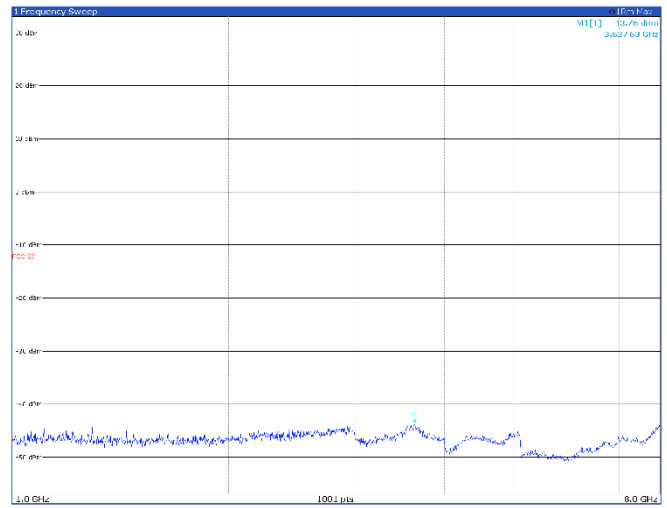
Limit exceeded by the carrier



TM3p3, 5 MHz, high channel



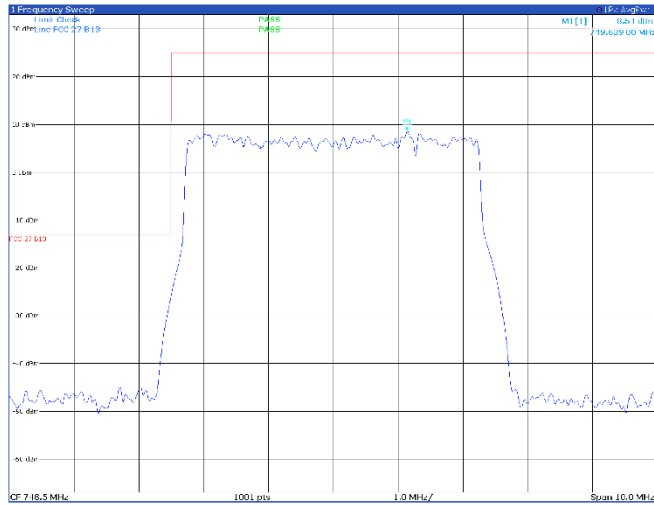
Limit exceeded by the carrier



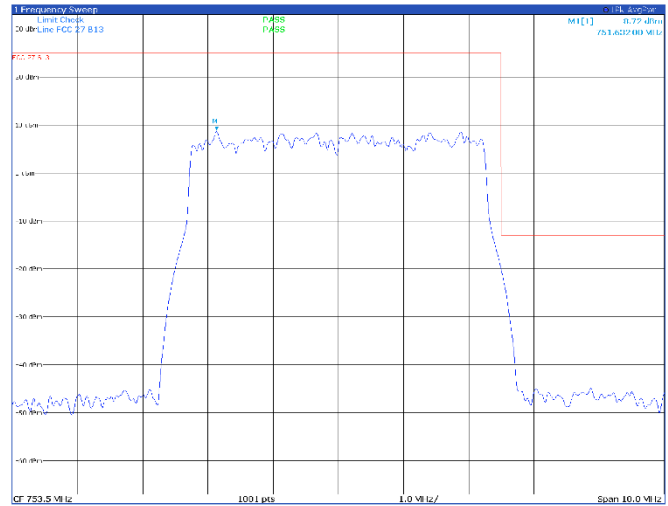
Band n13 – band edge Antenna port 1

5 MHz

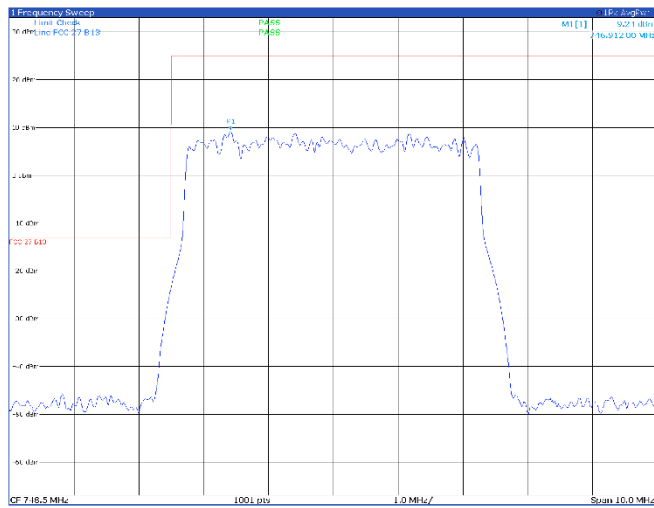
TM1.1, 5 MHz, low channel



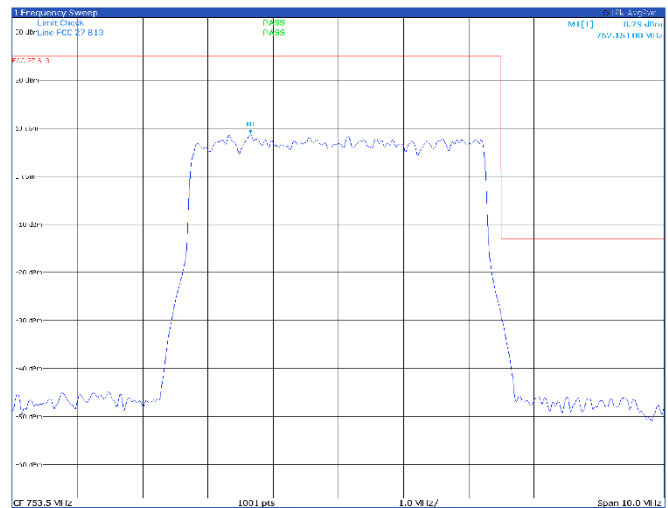
TM1.1, 5 MHz, high channel



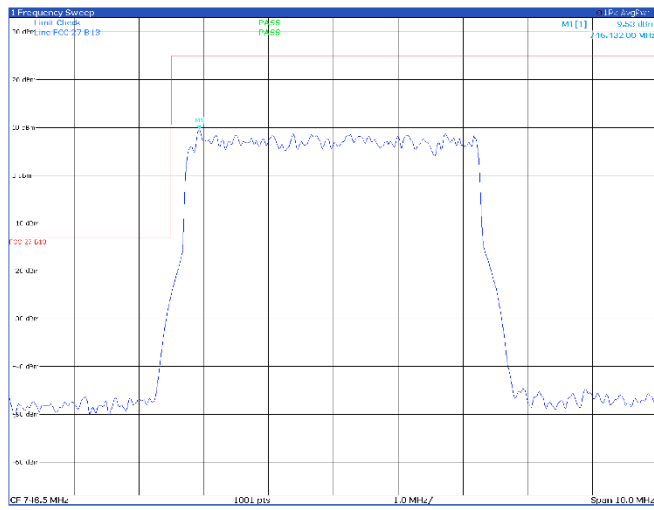
TM3p1, 5 MHz, low channel



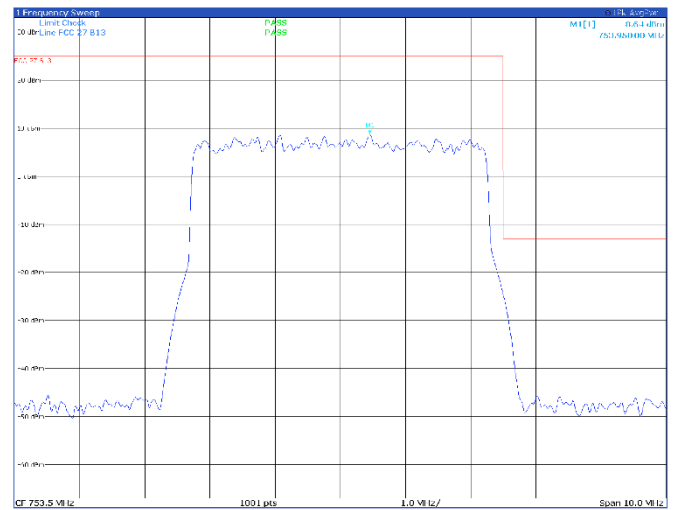
TM3p1, 5 MHz, high channel



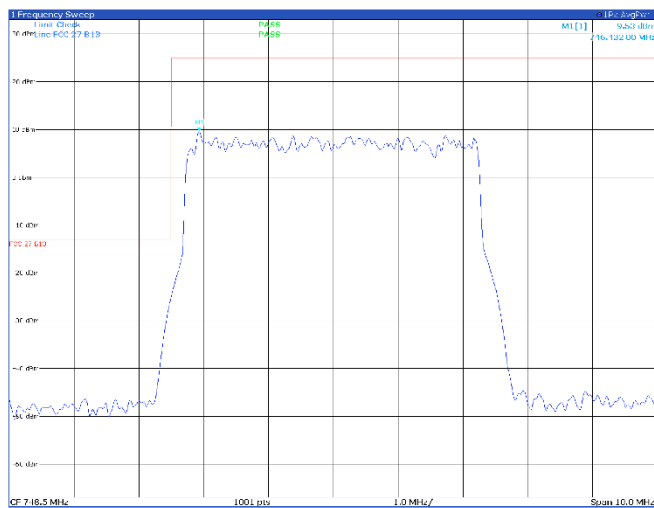
TM3p1a, 5 MHz, low channel



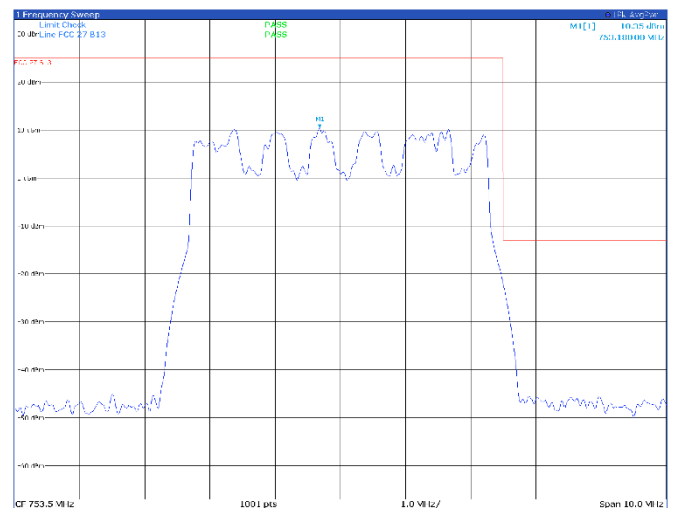
TM3p1a, 5 MHz, high channel



TM3p3, 5 MHz, low channel



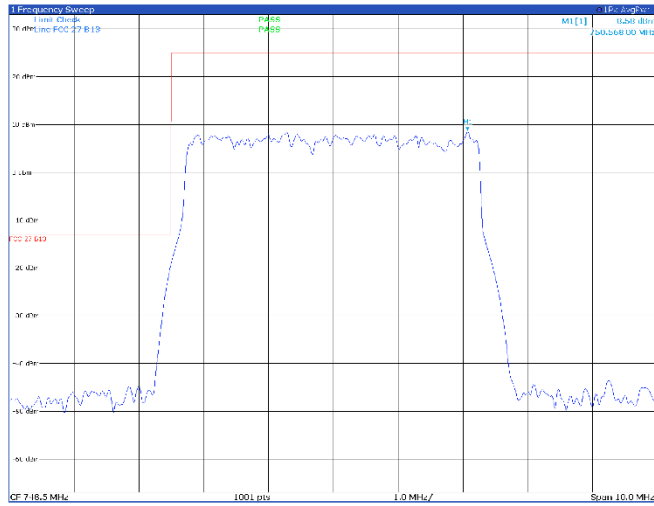
TM3p3, 5 MHz, high channel



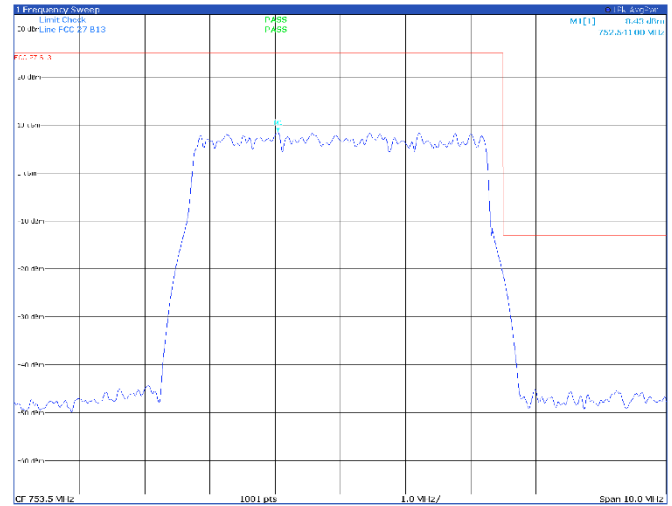
Band n13 – band edge Antenna port 2

5 MHz

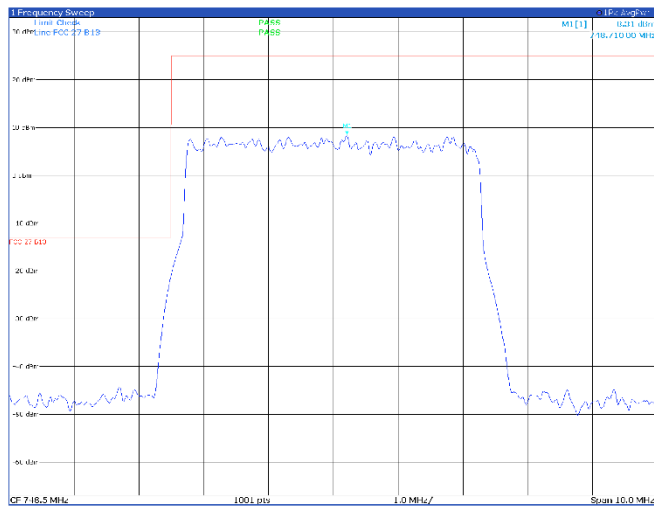
TM1.1, 5 MHz, low channel



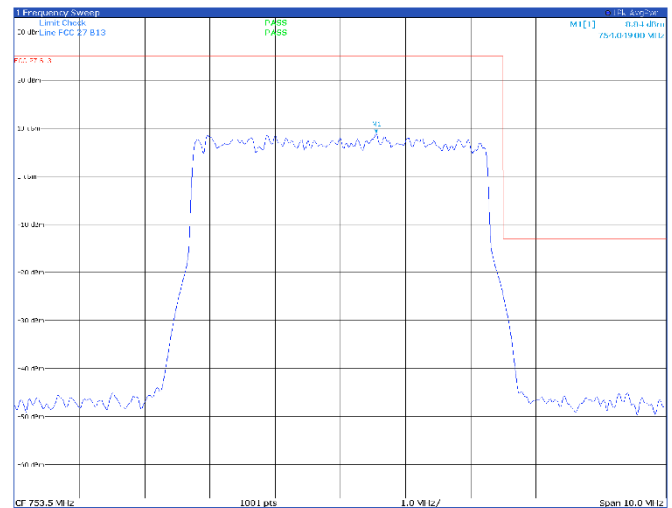
TM1.1, 5 MHz, high channel



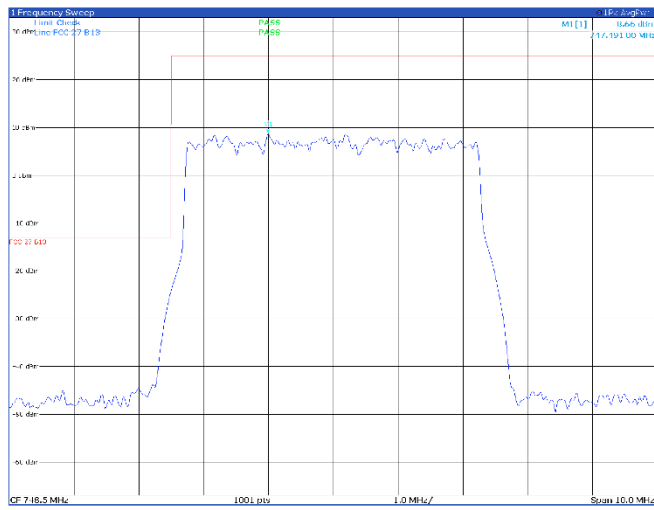
TM3p1, 5 MHz, low channel



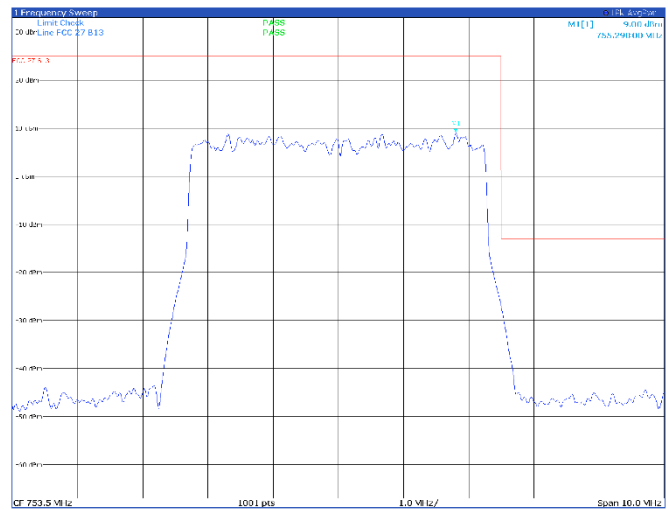
TM3p1, 5 MHz, high channel



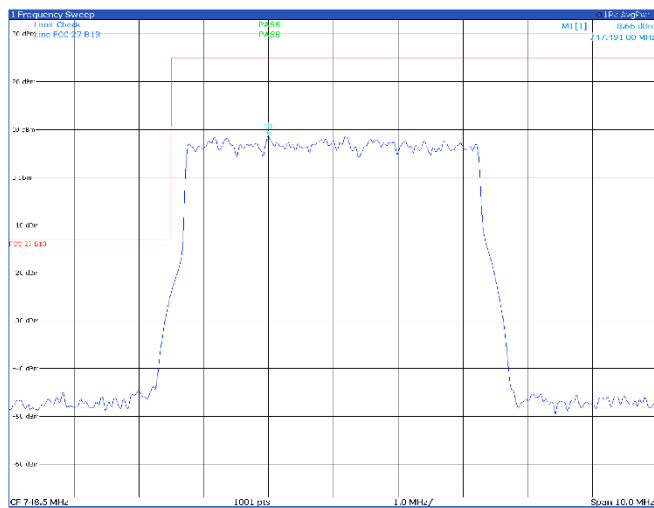
TM3p1a, 5 MHz, low channel



TM3p1a, 5 MHz, high channel



TM3p3, 5 MHz, low channel



TM3p3, 5 MHz, high channel

