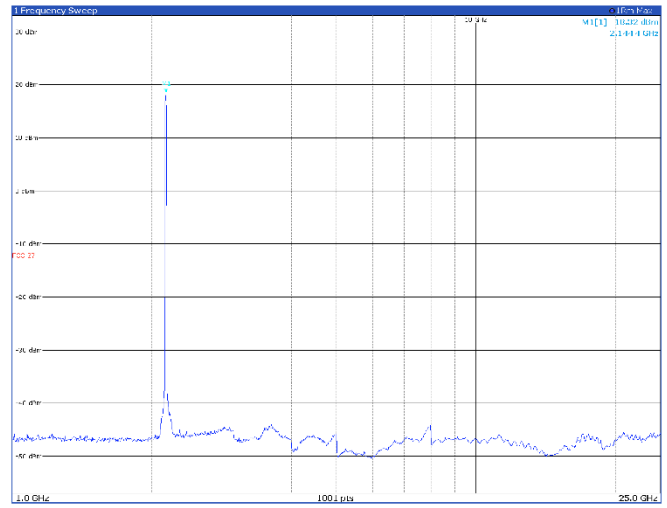
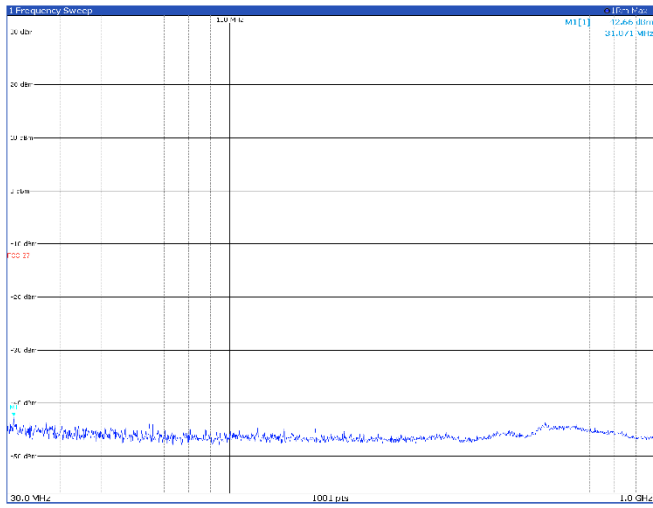
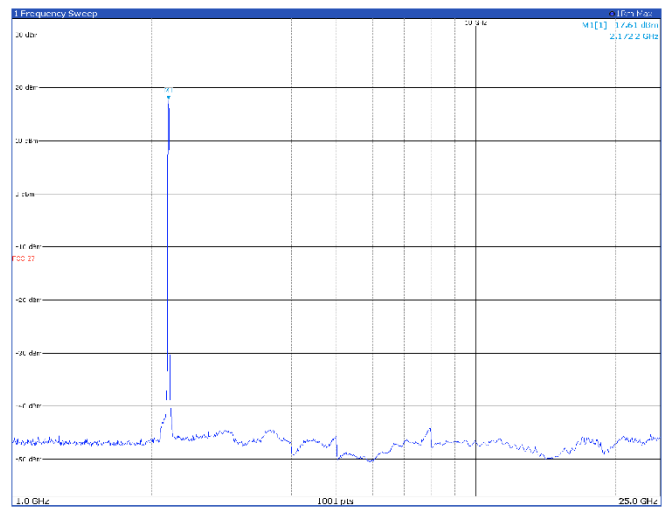
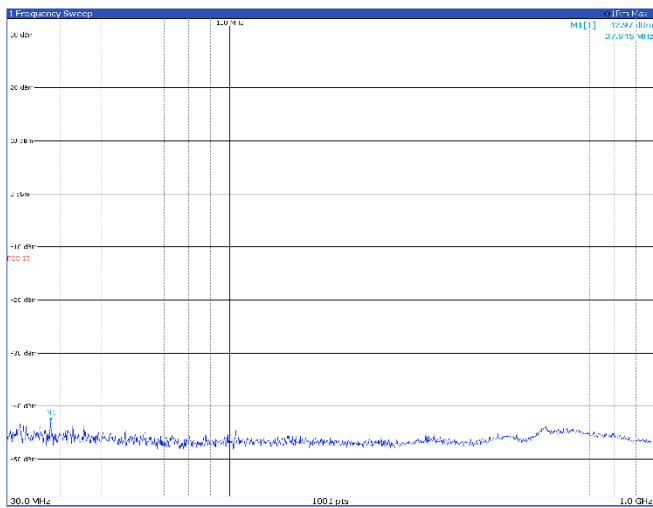


**TM3p3, 15 MHz, mid channel**



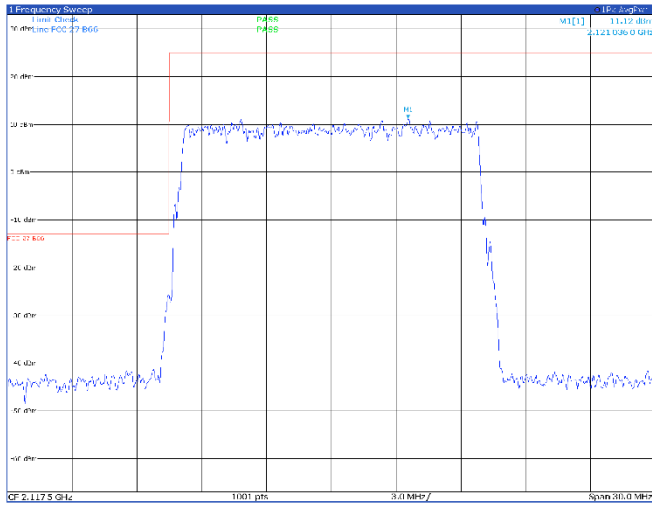
Limit exceeded by the carrier

**TM3p3, 15 MHz, high channel**

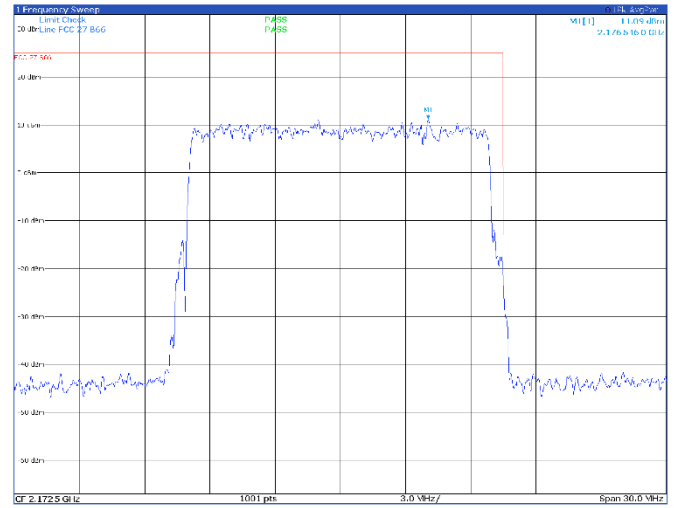


Limit exceeded by the carrier

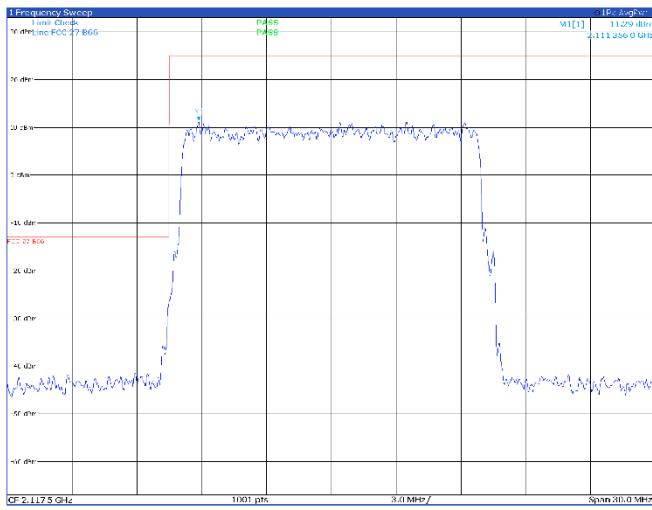
TM1.1, 15 MHz, low channel



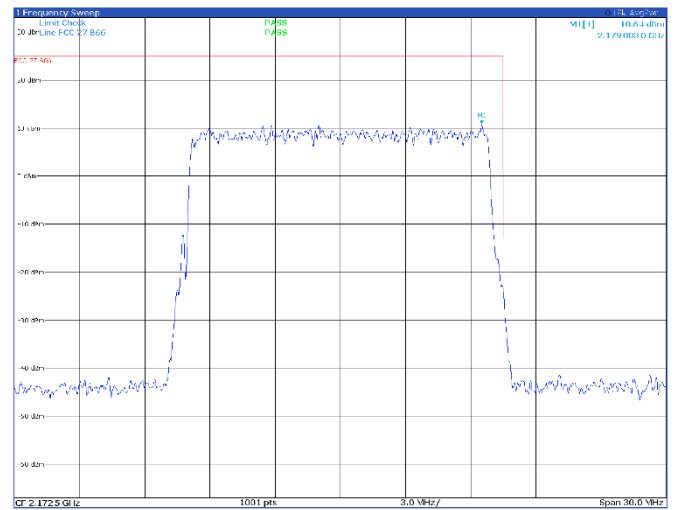
TM1.1, 15 MHz, high channel



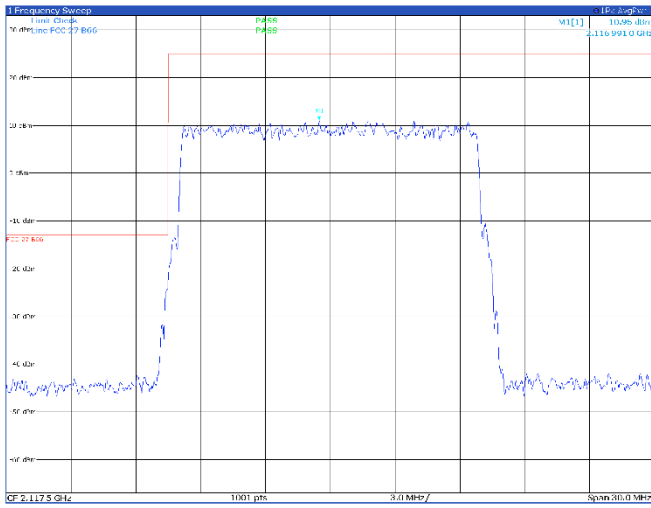
TM3p1, 15 MHz, low channel



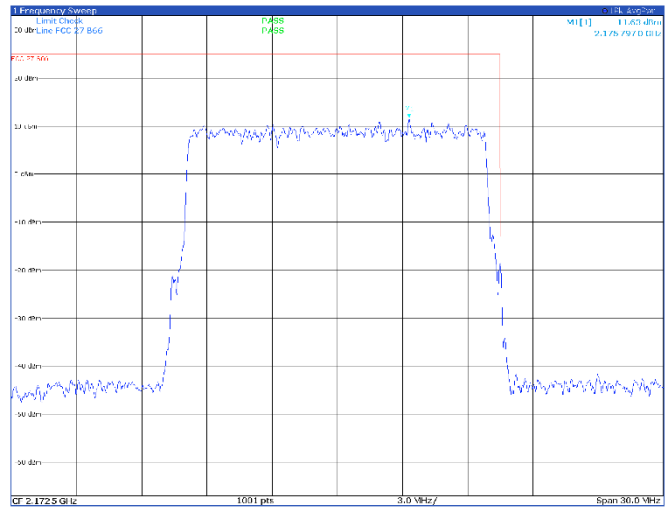
TM3p1, 15 MHz, high channel



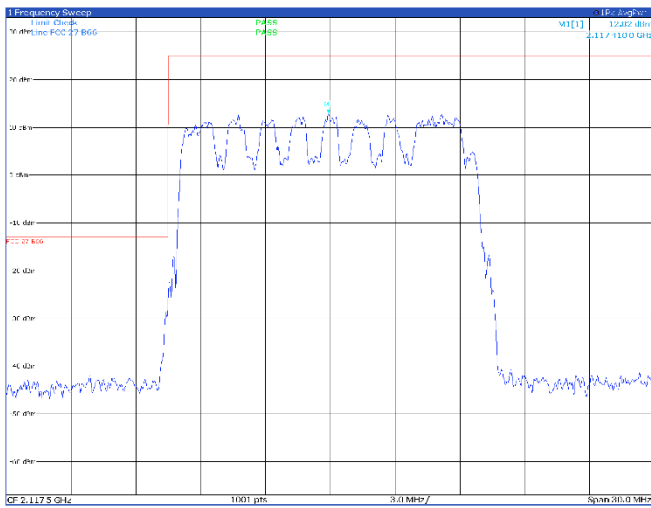
TM3p1a, 15 MHz, low channel



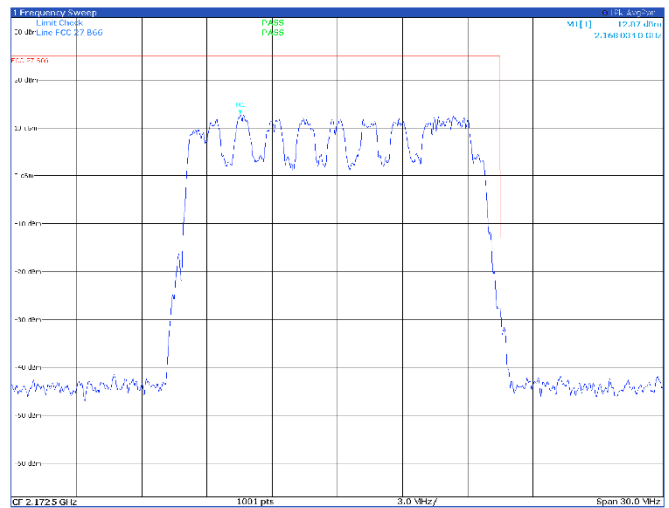
TM3p1a, 15 MHz, high channel



TM3p3, 15 MHz, low channel

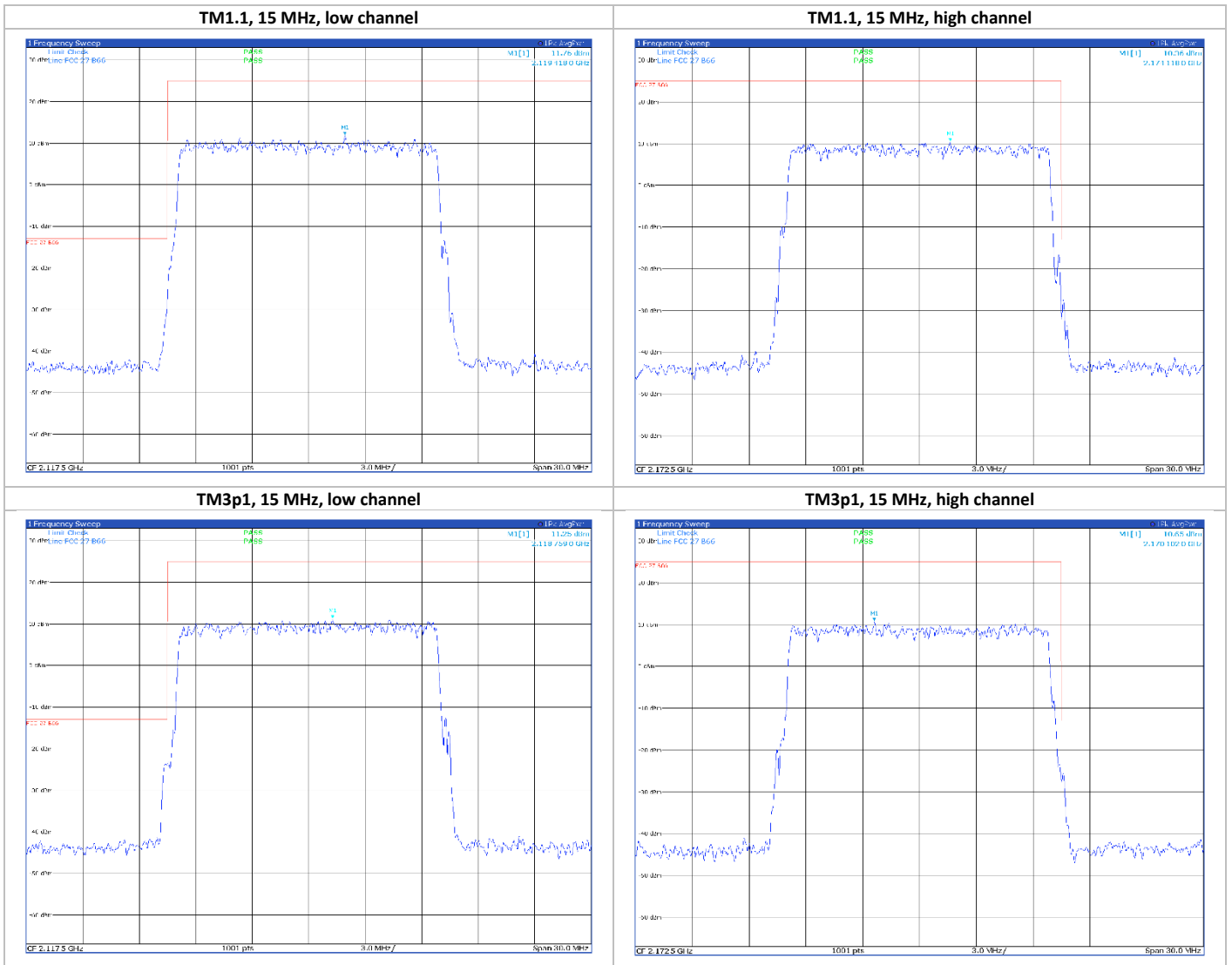


TM3p3, 15 MHz, high channel

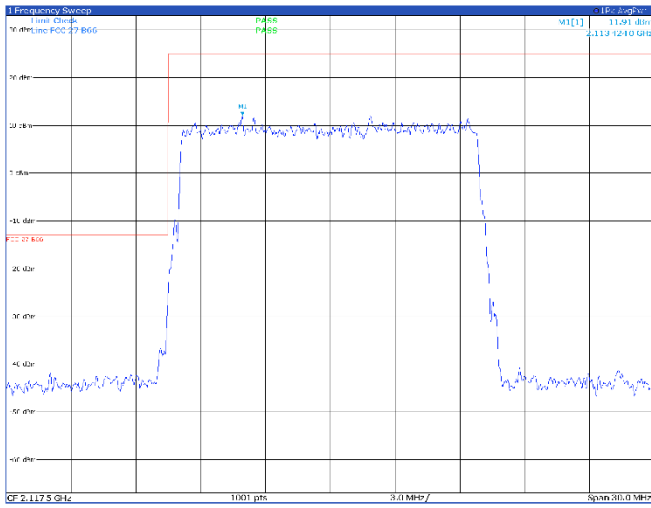


Band n66 – band edge Antenna port 2

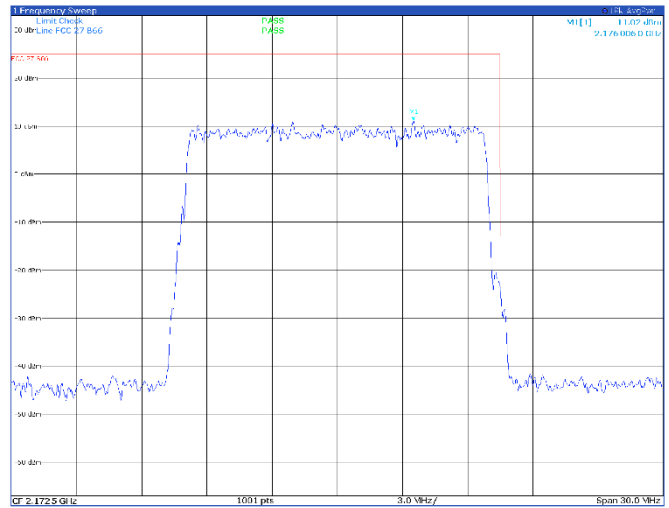
15 MHz



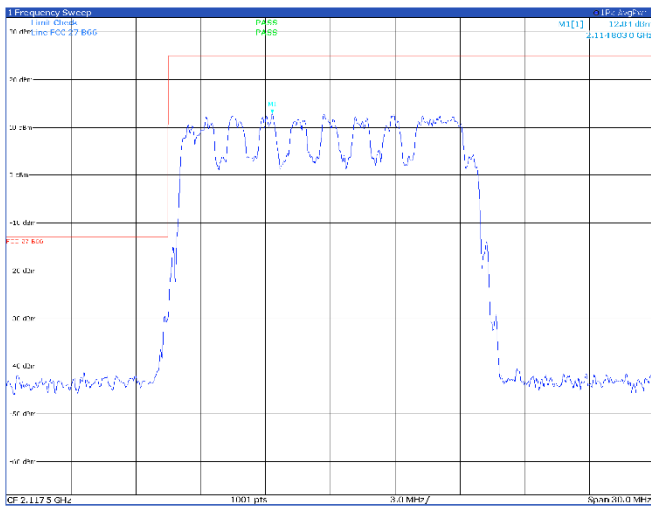
TM3p1a, 15 MHz, low channel



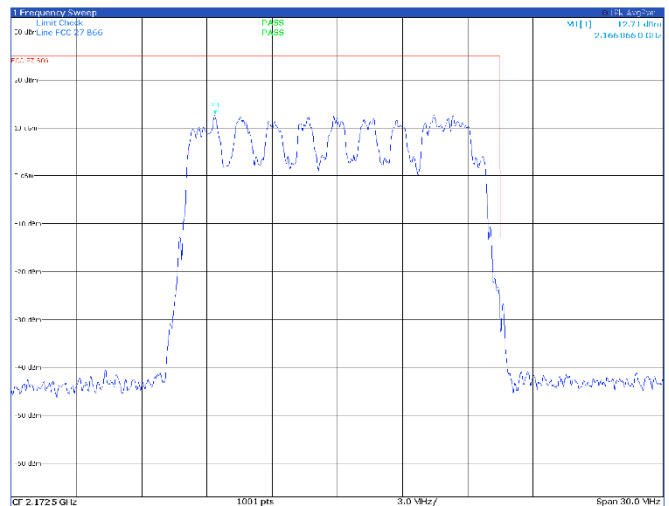
TM3p1a, 15 MHz, high channel



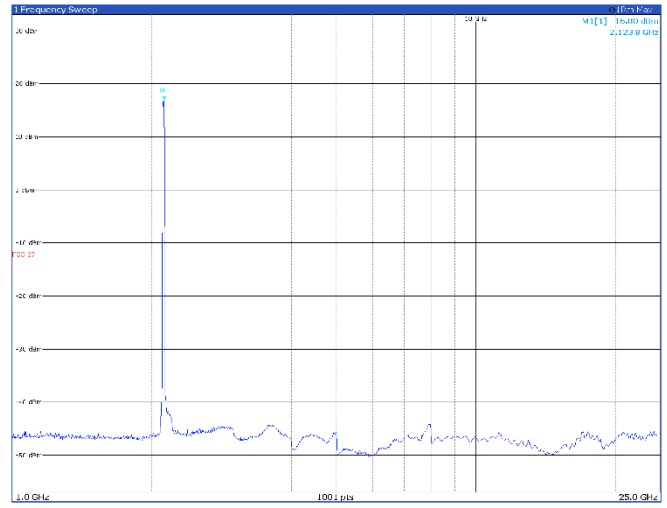
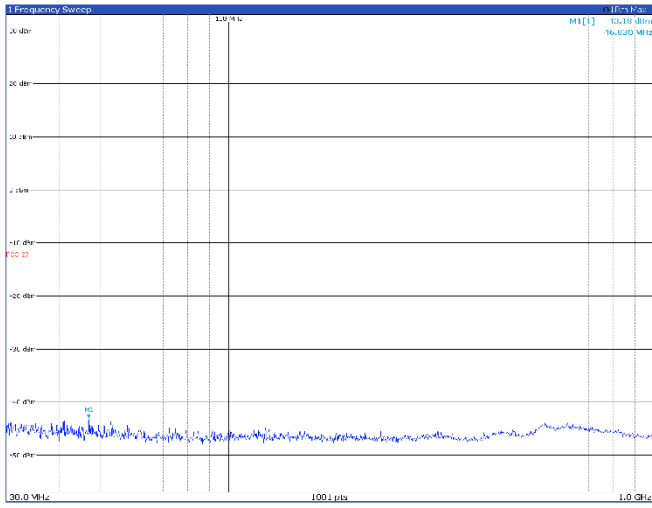
TM3p3, 15 MHz, low channel



TM3p3, 15 MHz, high channel

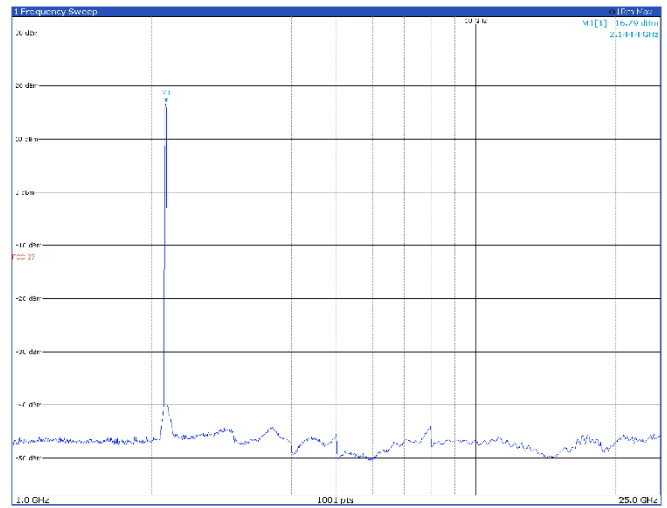
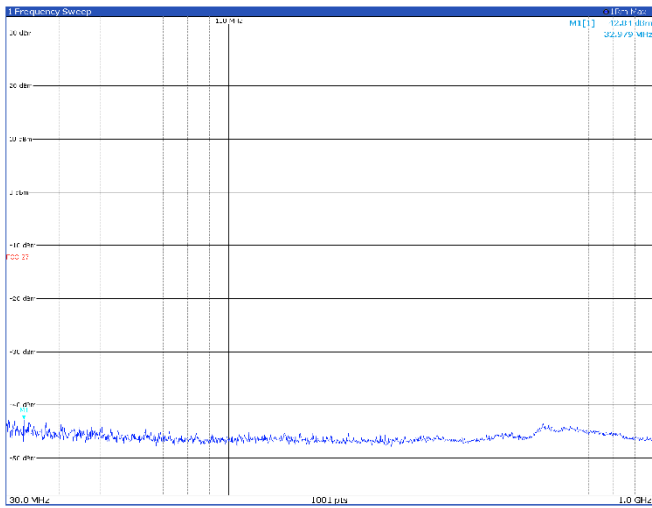


TM1.1, 20 MHz, low channel



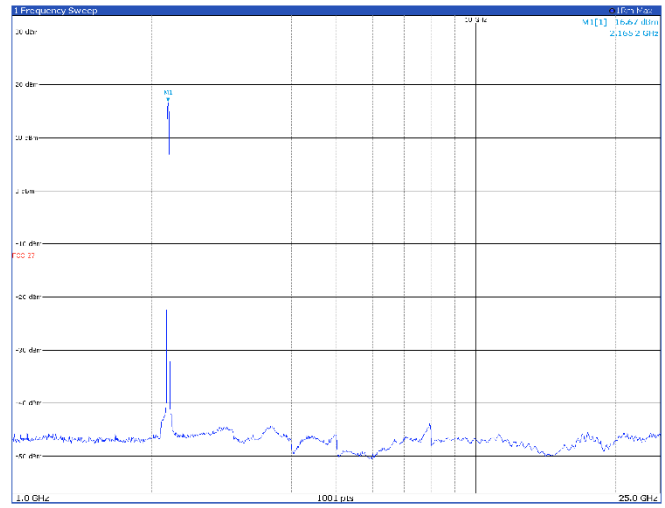
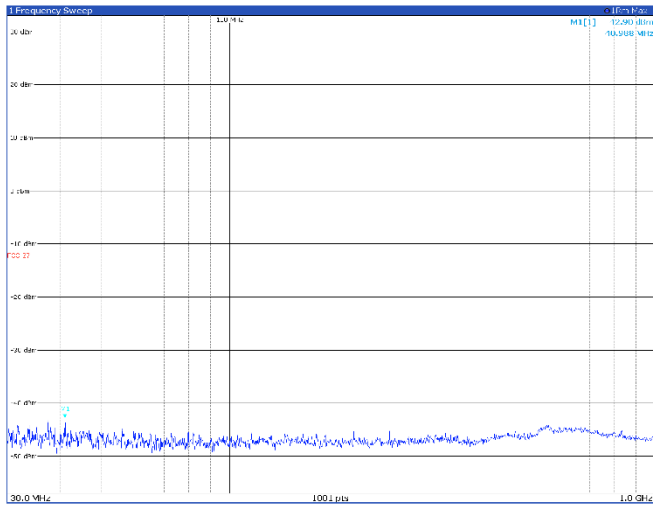
Limit exceeded by the carrier

TM1.1, 20 MHz, mid channel



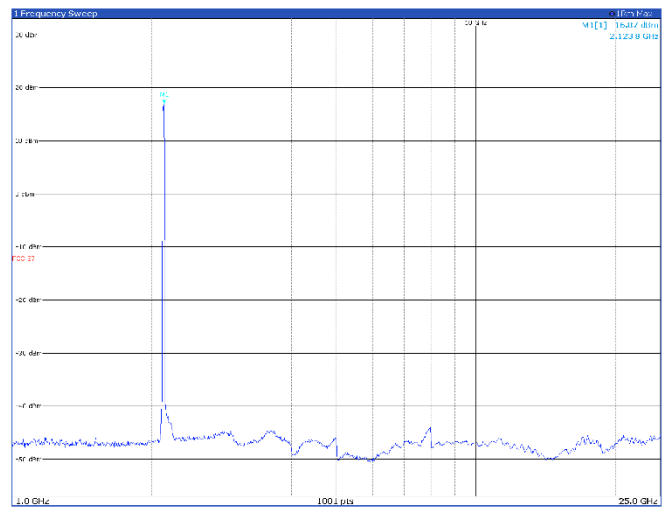
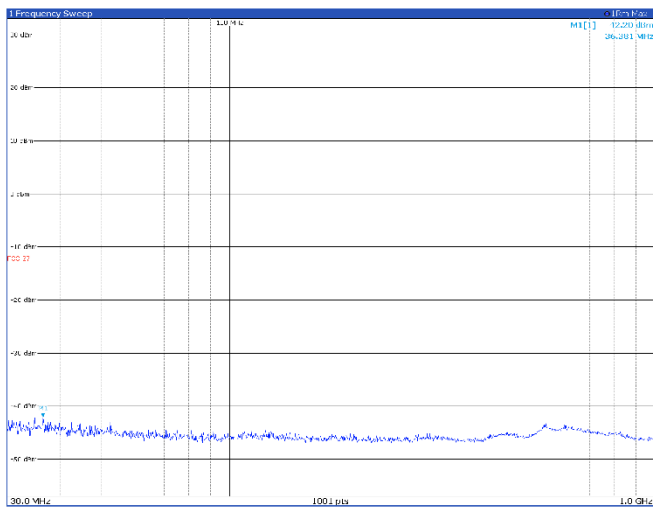
Limit exceeded by the carrier

**TM1.1, 20 MHz, high channel**



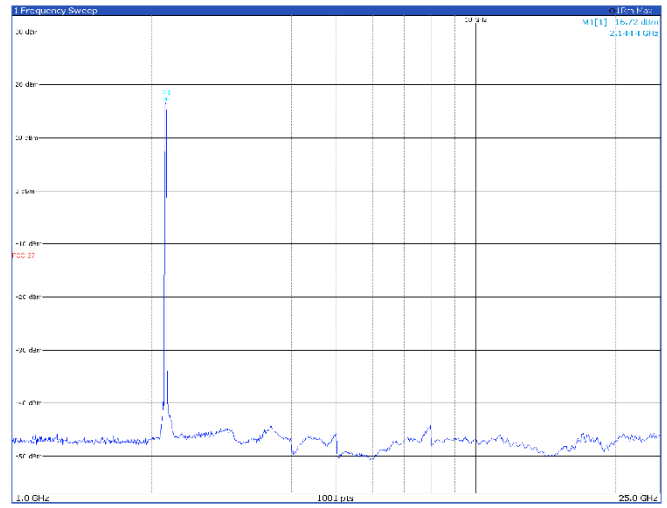
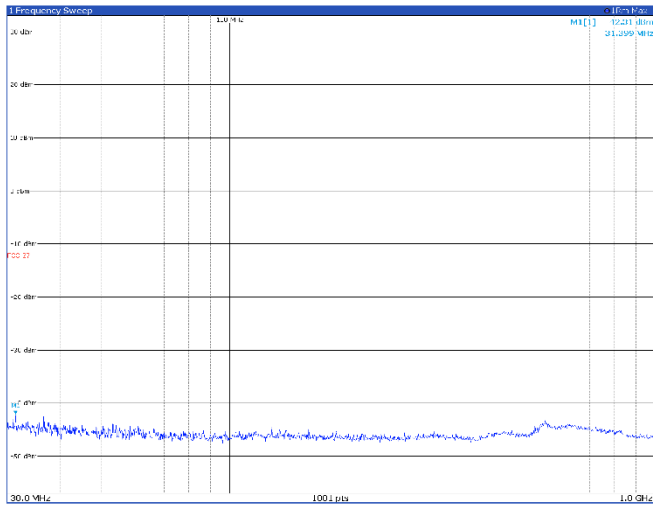
Limit exceeded by the carrier

**TM3p1, 20 MHz, low channel**



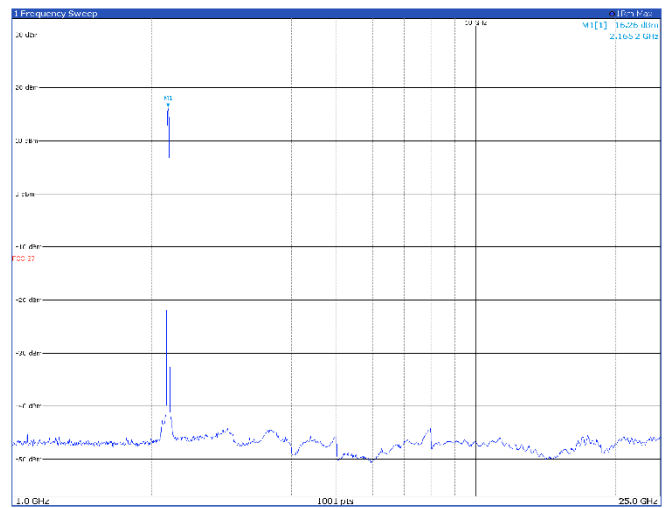
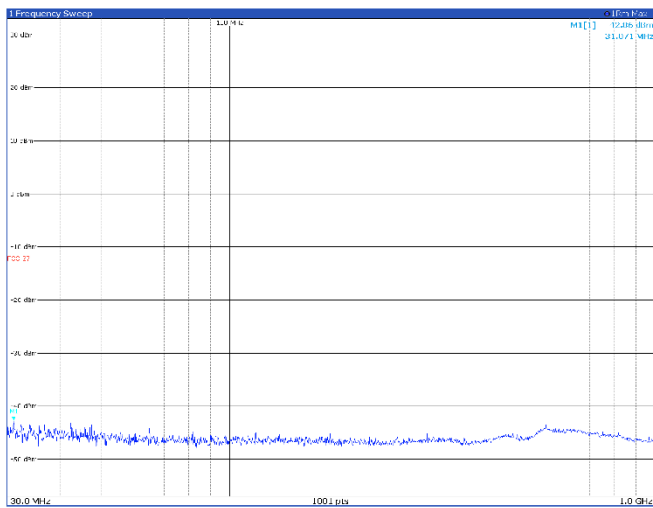
Limit exceeded by the carrier

**TM3p1, 20 MHz, mid channel**



Limit exceeded by the carrier

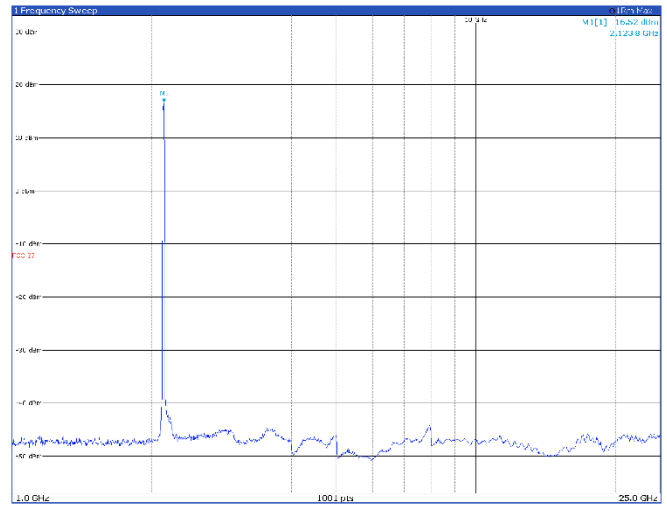
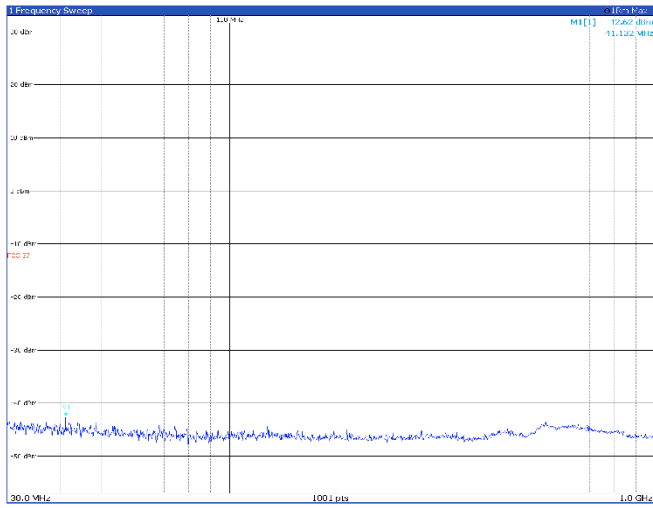
**TM3p1, 20 MHz, high channel**



Limit exceeded by the carrier

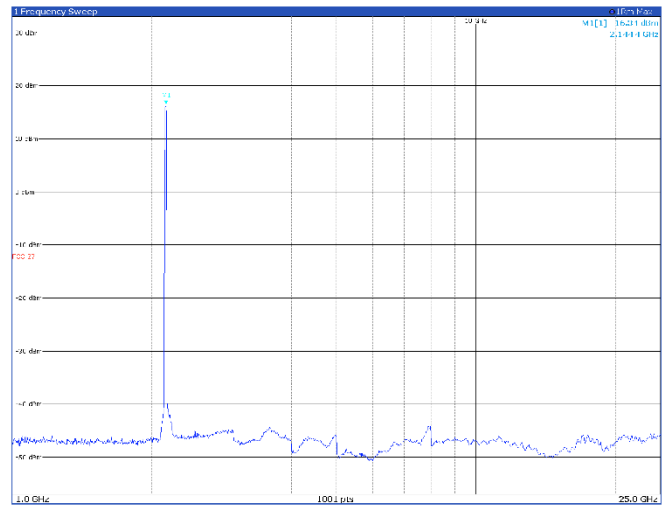
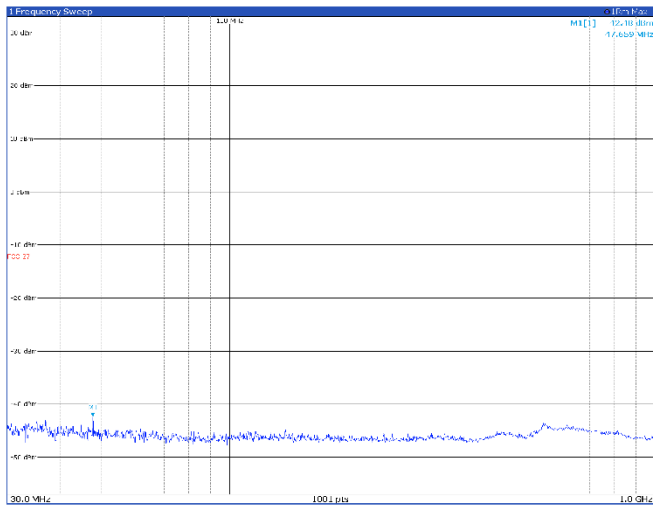


**TM3p1a, 20 MHz, low channel**



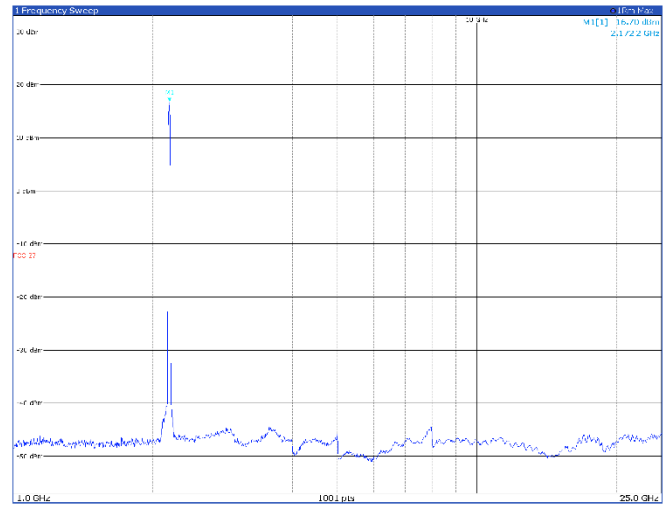
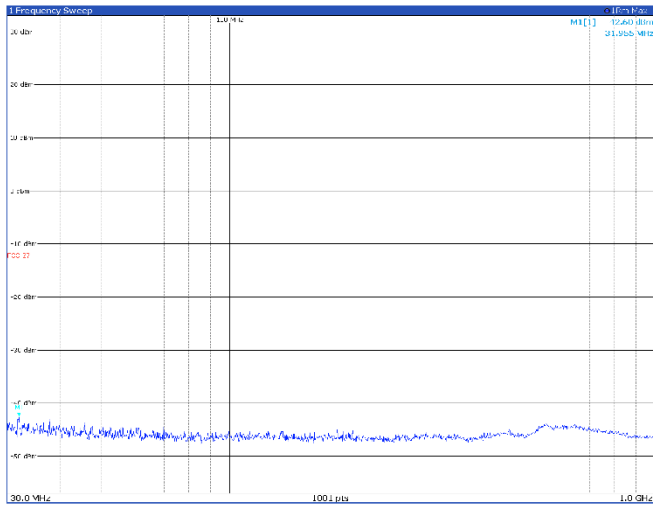
Limit exceeded by the carrier

**TM3p1a, 20 MHz, mid channel**



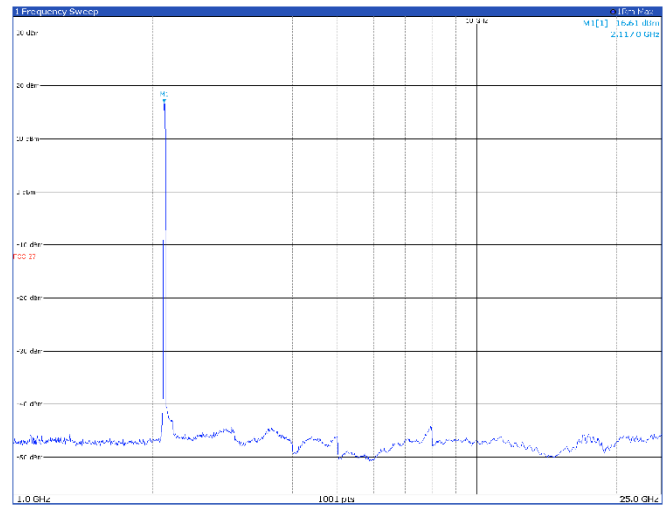
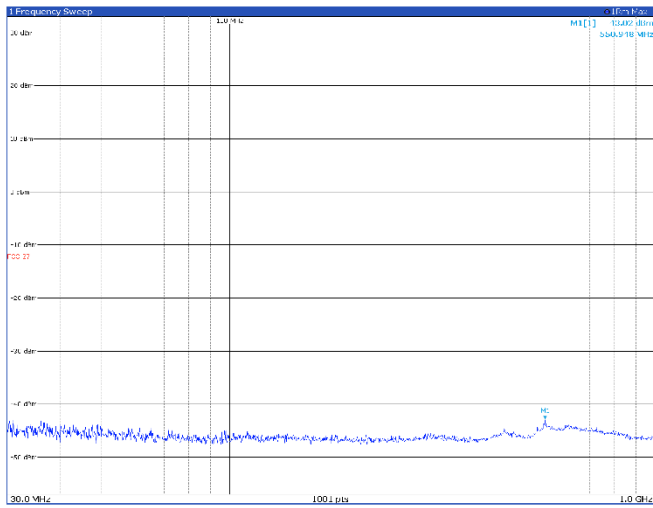
Limit exceeded by the carrier

**TM3p1a, 20 MHz, high channel**



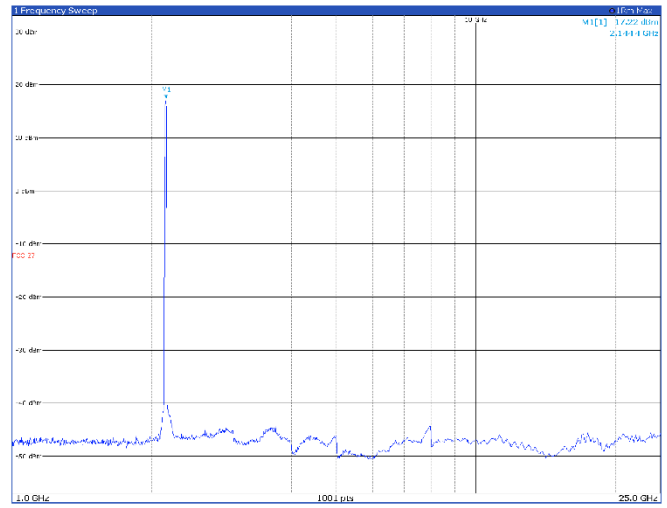
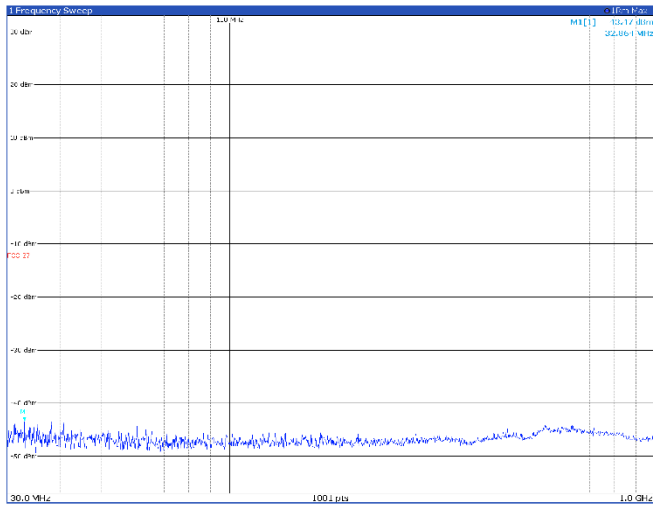
Limit exceeded by the carrier

**TM3p3, 20 MHz, low channel**



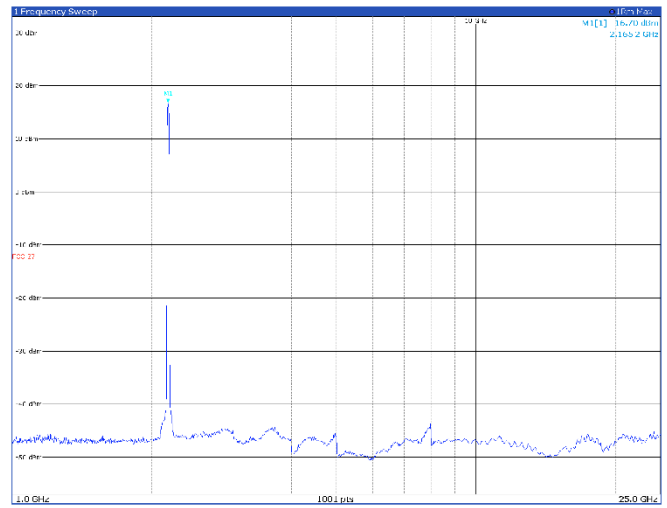
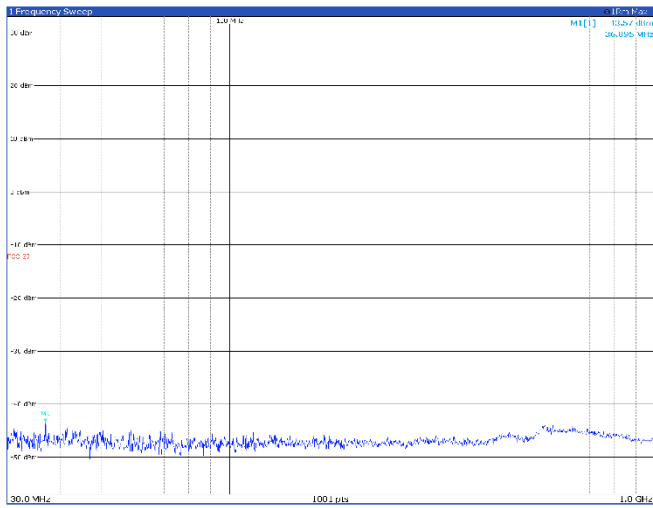
Limit exceeded by the carrier

**TM3p3, 20 MHz, mid channel**



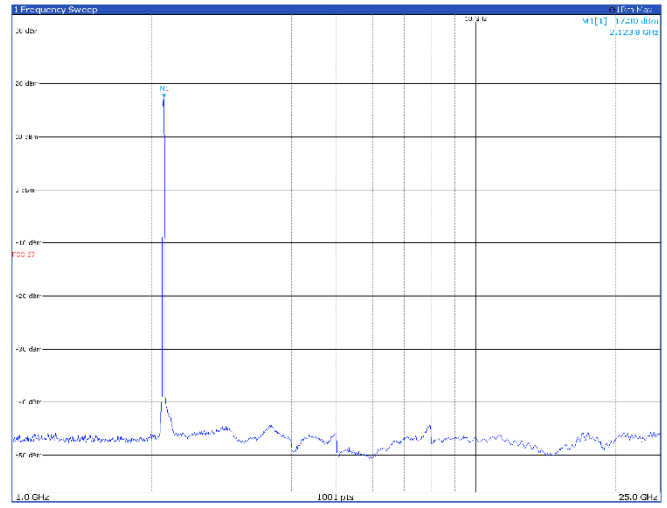
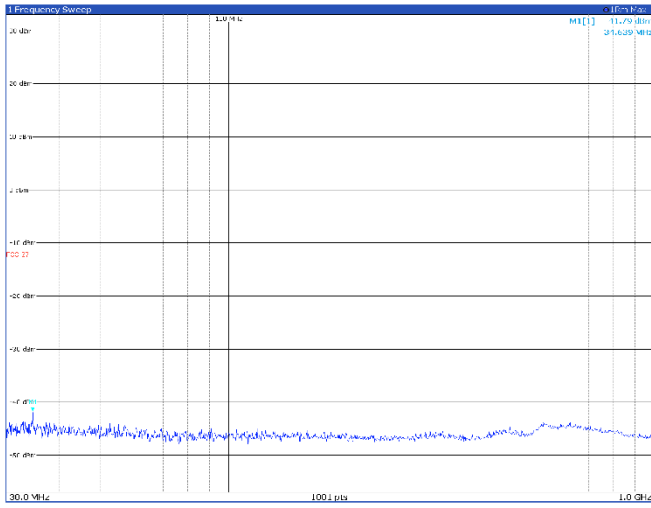
Limit exceeded by the carrier

**TM3p3, 20 MHz, high channel**



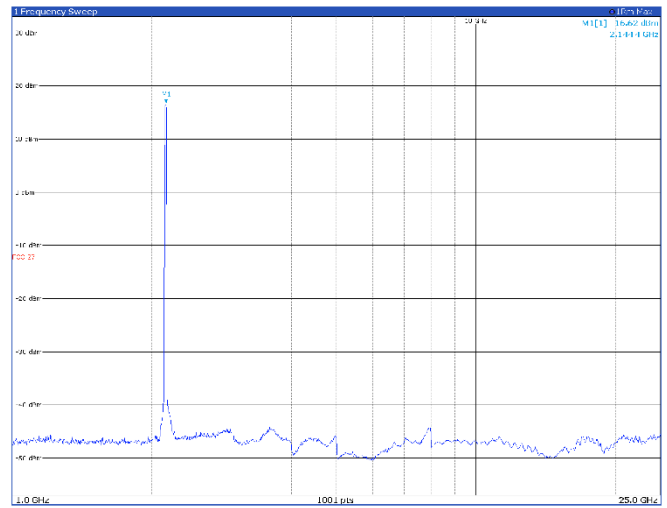
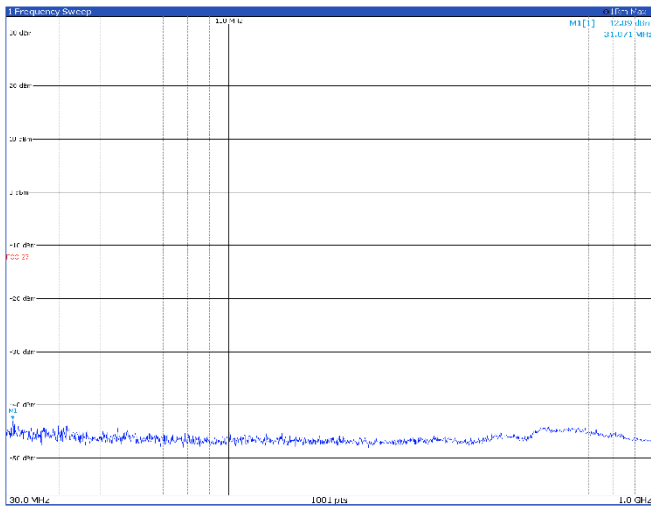
Limit exceeded by the carrier

TM1.1, 20 MHz, low channel



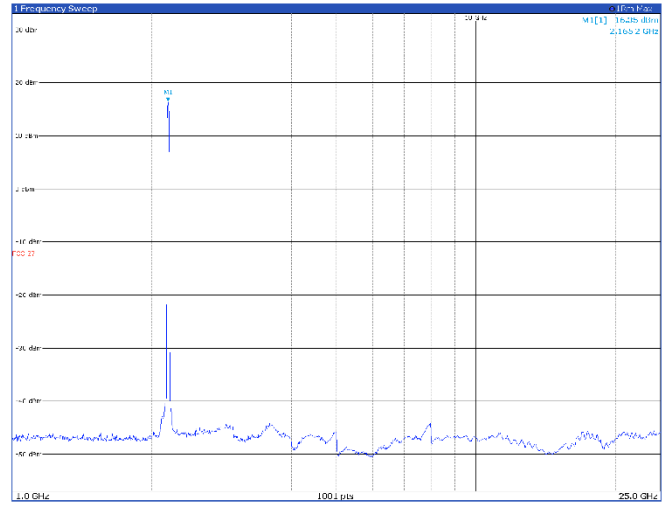
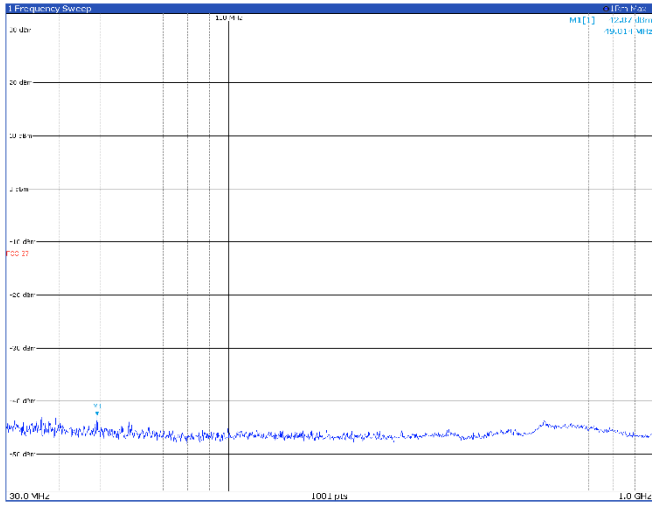
Limit exceeded by the carrier

TM1.1, 20 MHz, mid channel



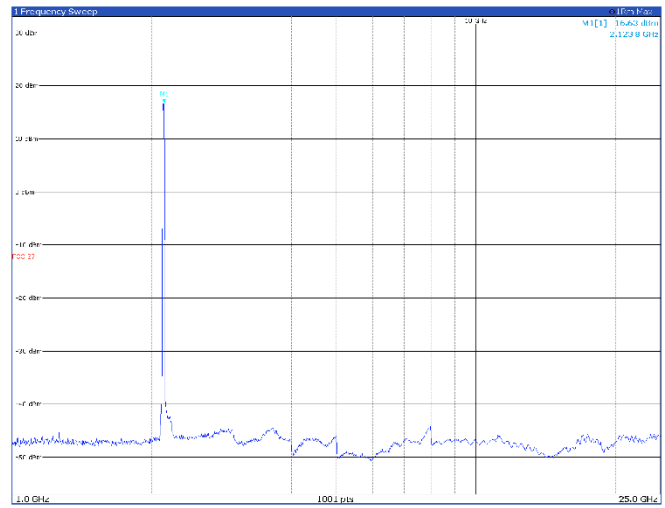
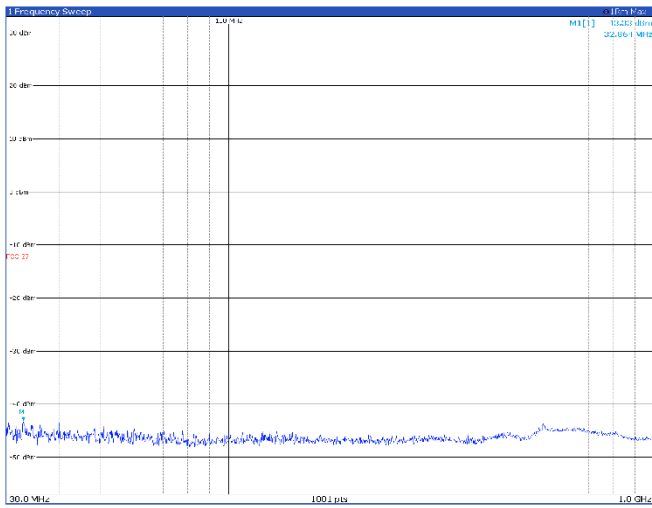
Limit exceeded by the carrier

**TM1.1, 20 MHz, high channel**



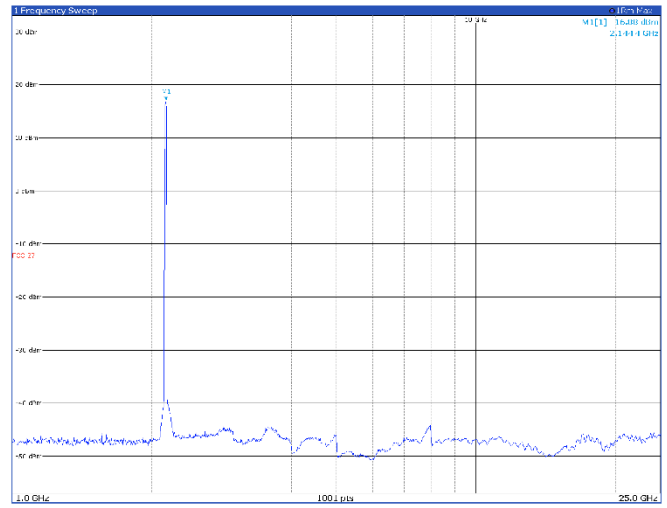
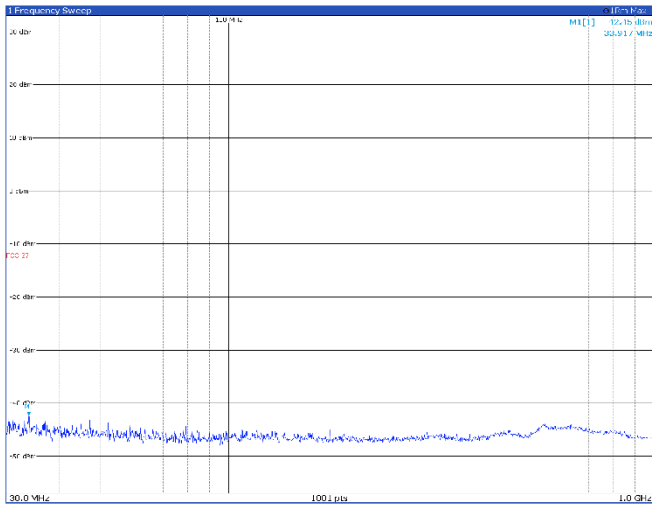
Limit exceeded by the carrier

**TM3p1, 20 MHz, low channel**



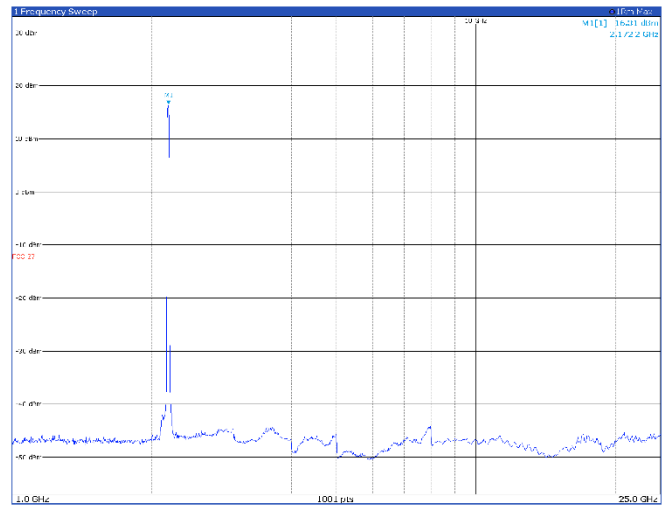
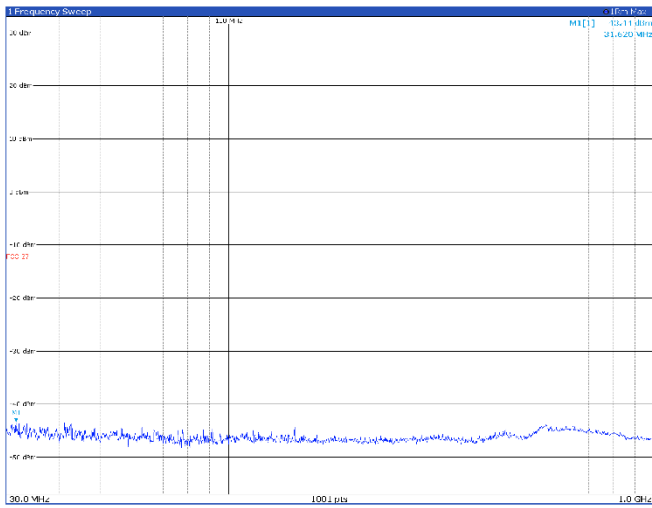
Limit exceeded by the carrier

TM3p1, 20 MHz, mid channel



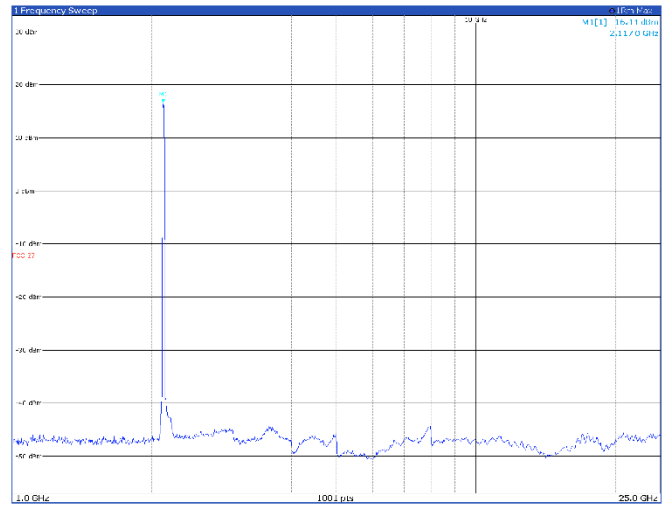
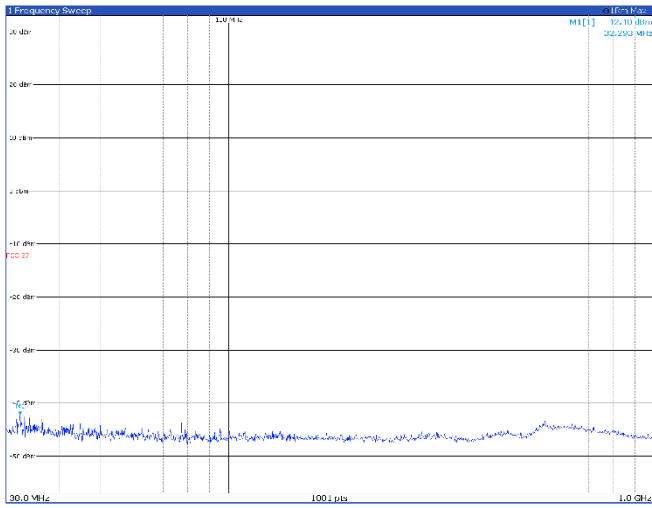
Limit exceeded by the carrier

TM3p1, 20 MHz, high channel



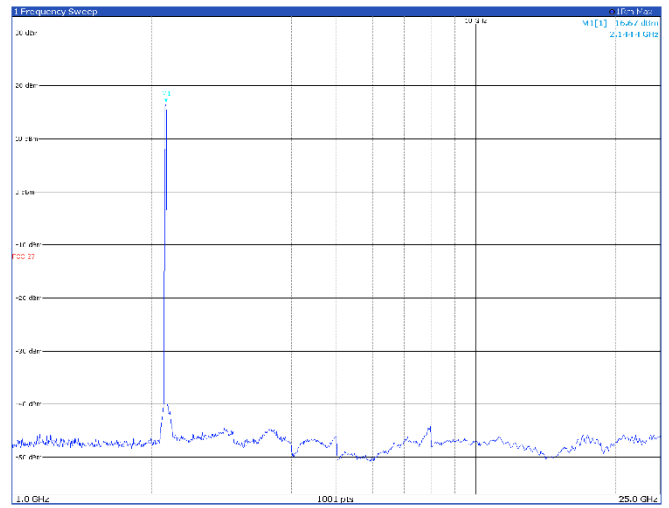
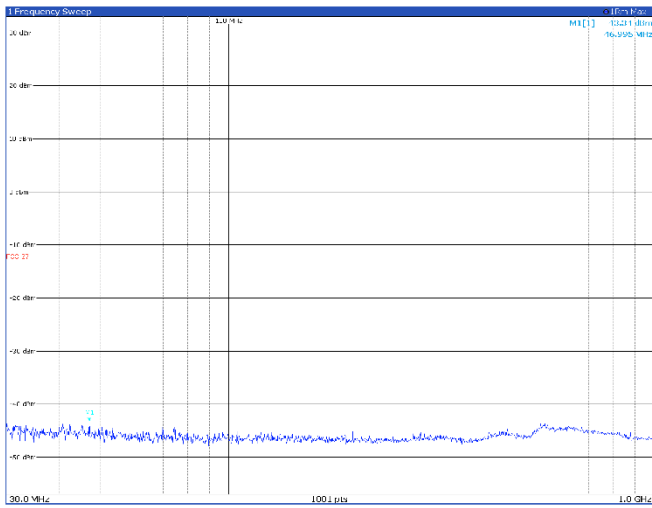
Limit exceeded by the carrier

**TM3p1a, 20 MHz, low channel**



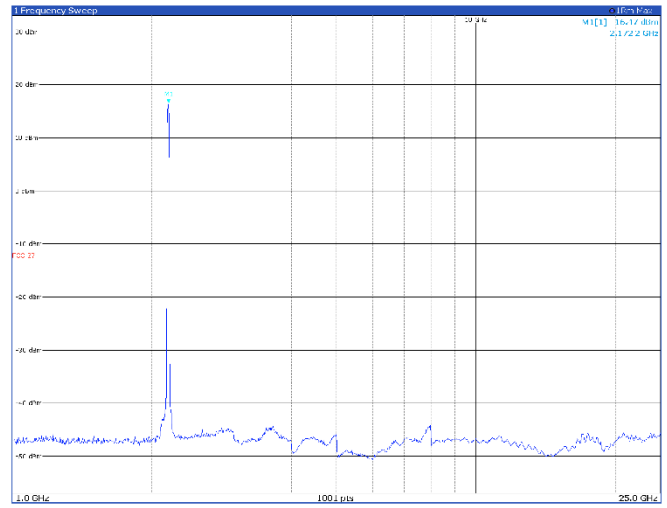
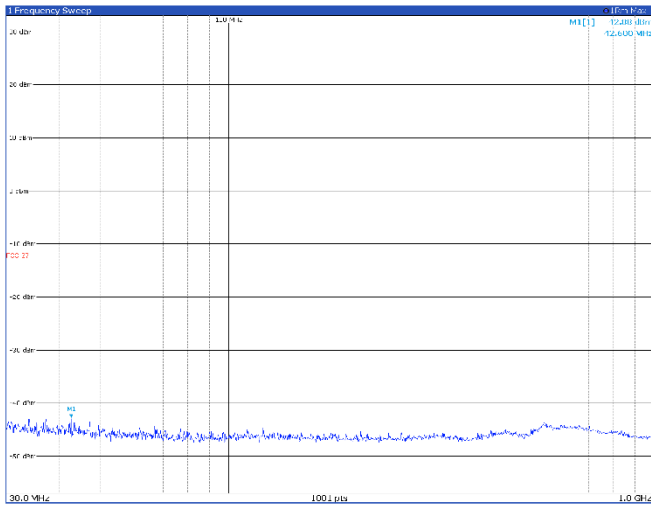
Limit exceeded by the carrier

**TM3p1a, 20 MHz, mid channel**



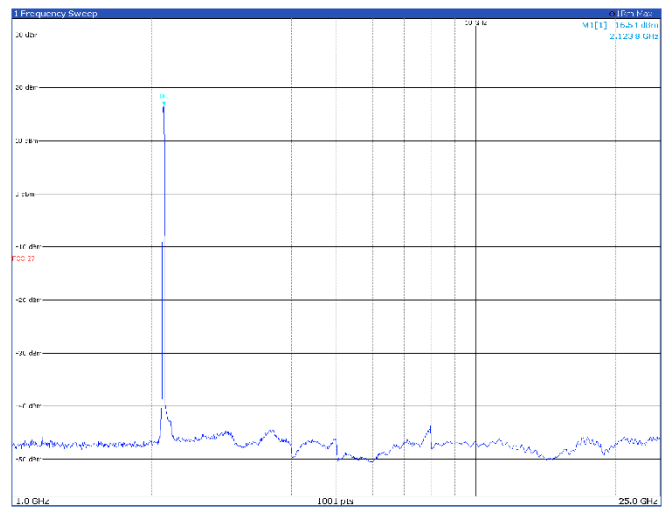
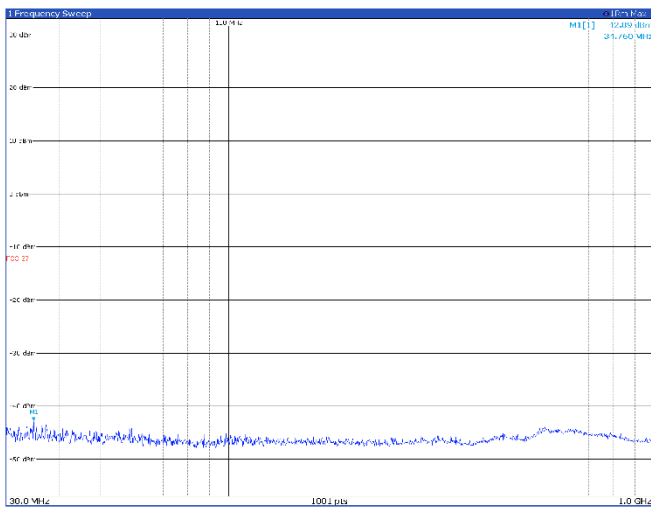
Limit exceeded by the carrier

**TM3p1a, 20 MHz, high channel**



Limit exceeded by the carrier

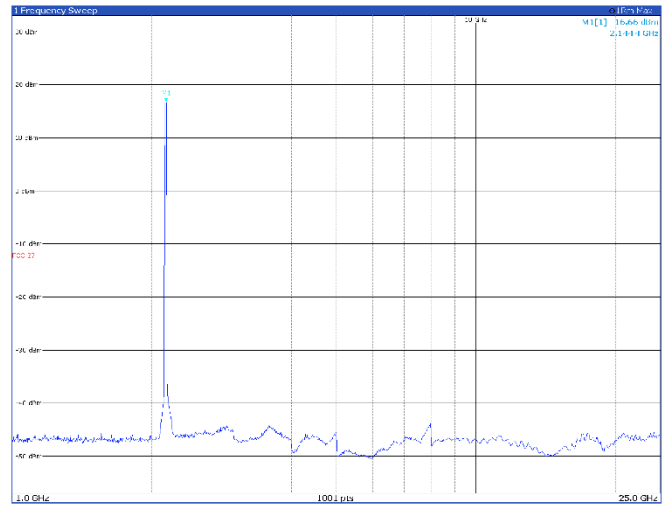
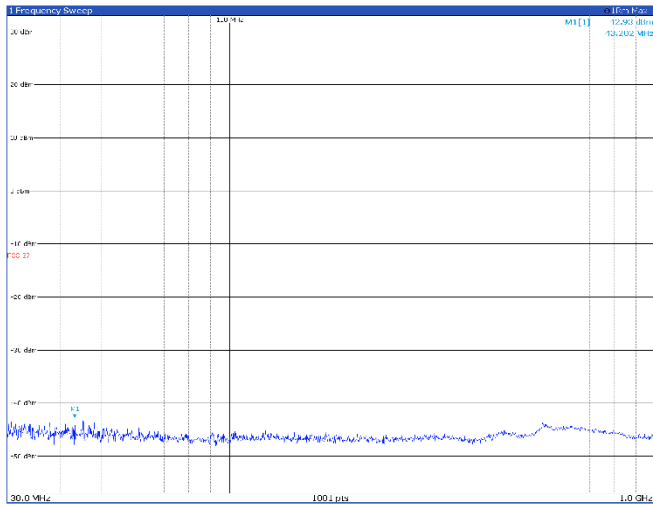
**TM3p3, 20 MHz, low channel**



Limit exceeded by the carrier

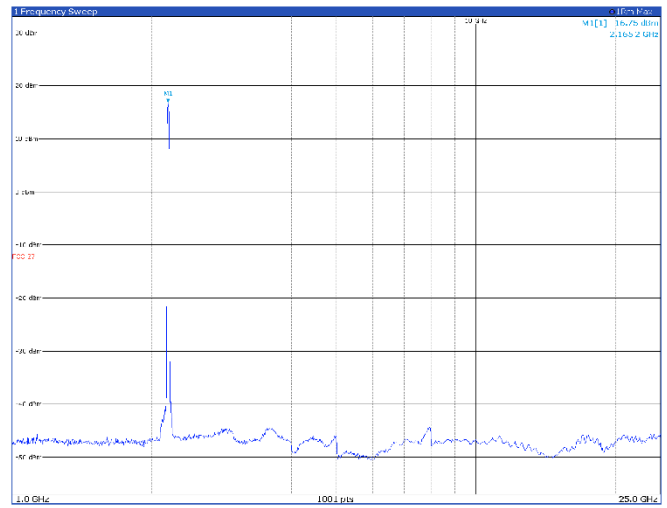
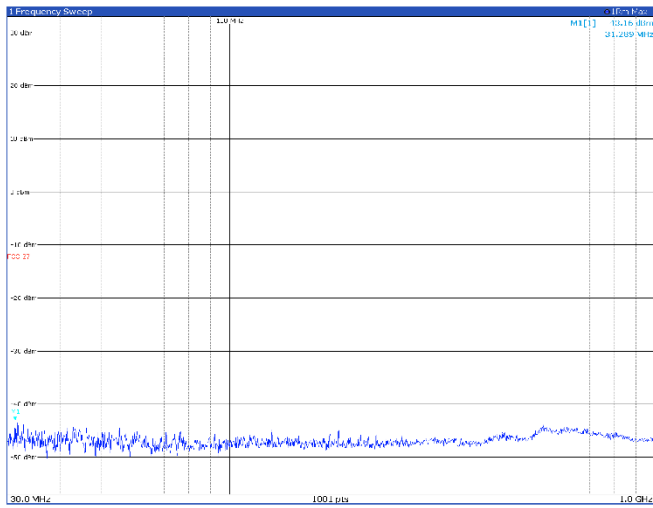


**TM3p3, 20 MHz, mid channel**



Limit exceeded by the carrier

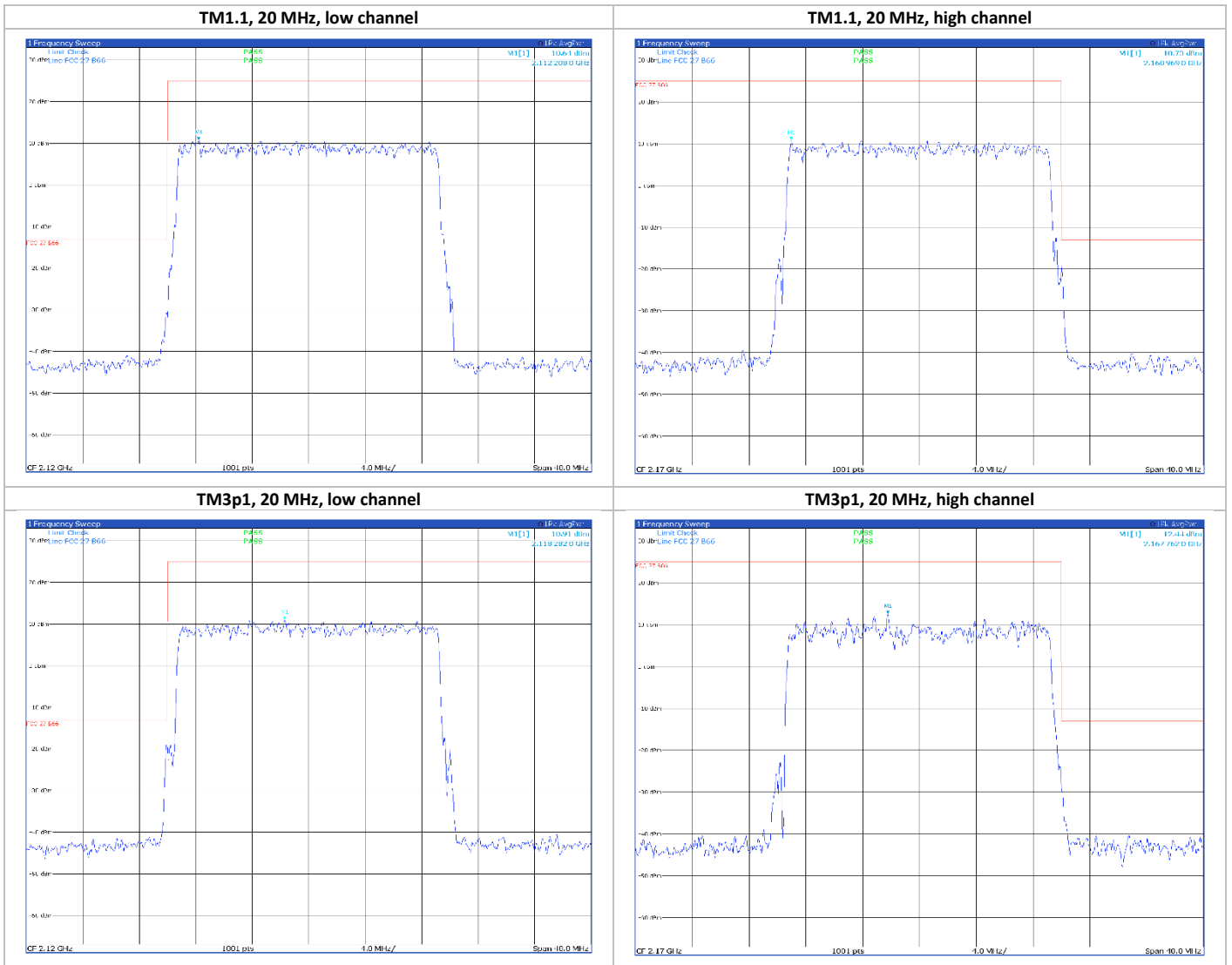
**TM3p3, 20 MHz, high channel**



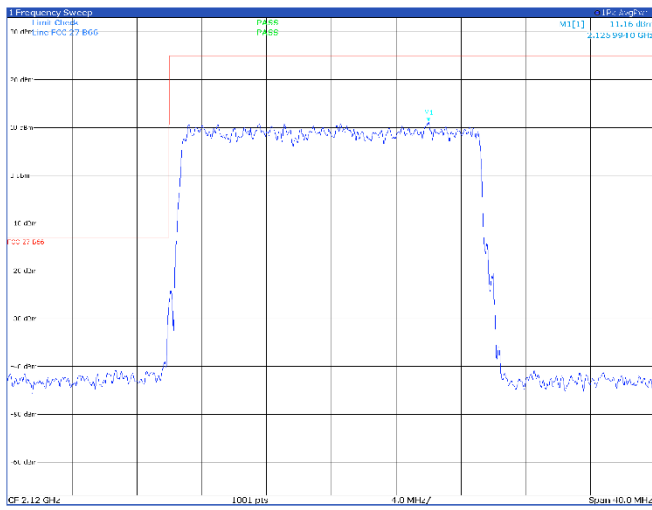
Limit exceeded by the carrier

Band n66 – band edge Antenna port 1

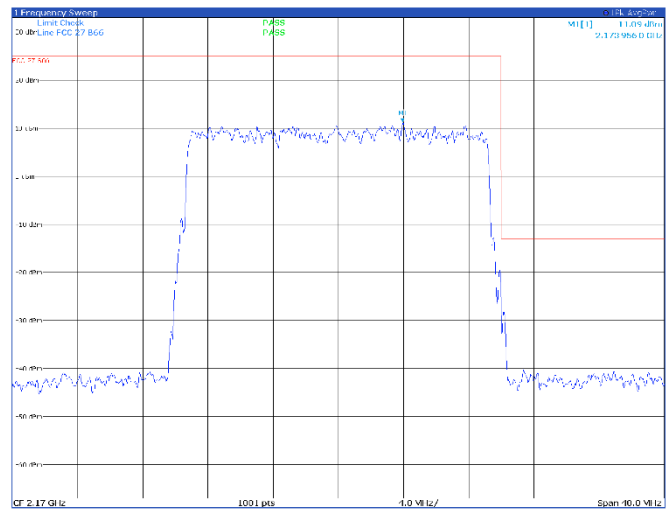
20 MHz



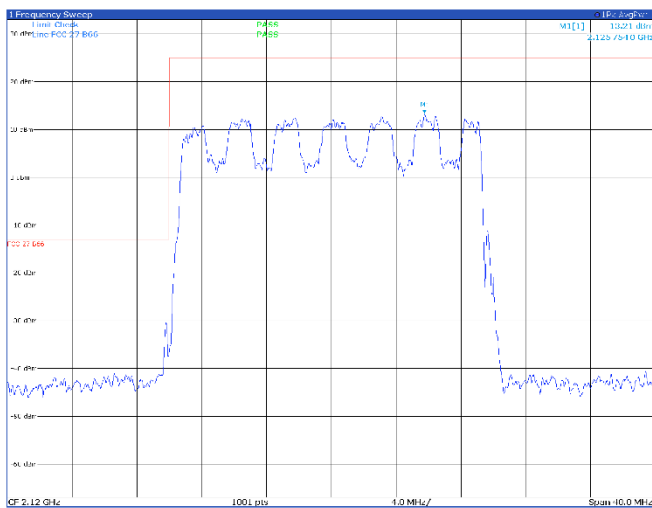
TM3p1a, 20 MHz, low channel



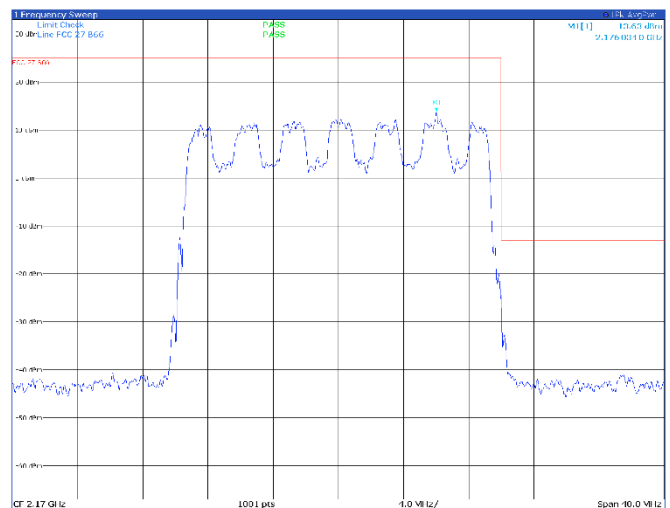
TM3p1a, 20 MHz, high channel



TM3p3, 20 MHz, low channel

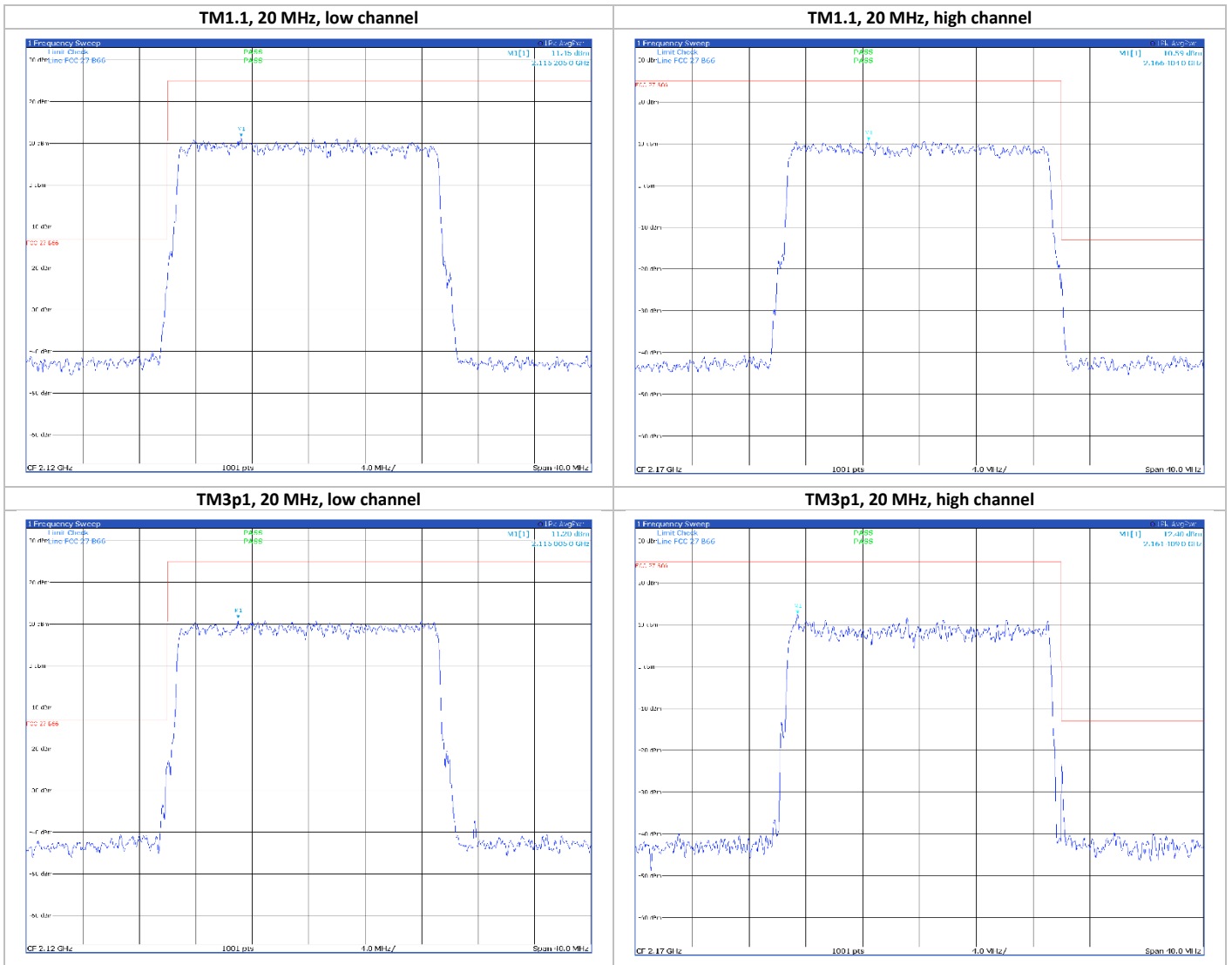


TM3p3, 20 MHz, high channel

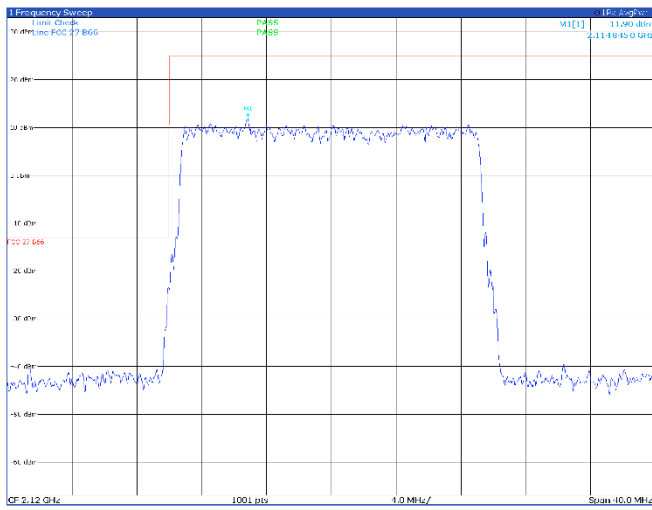


Band n66 – band edge Antenna port 2

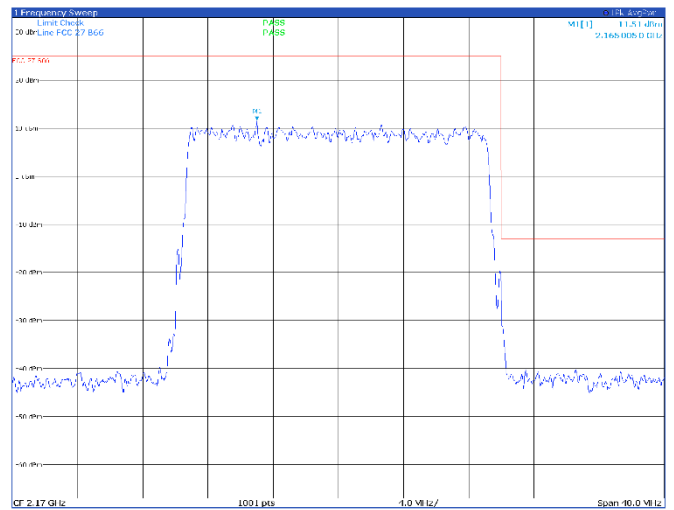
20 MHz



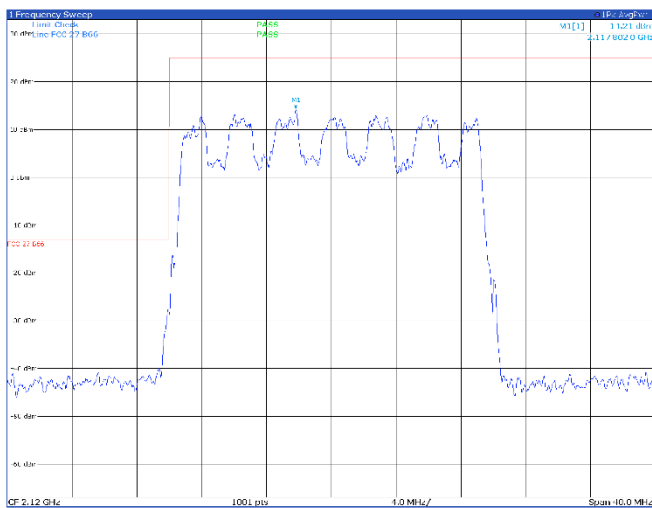
TM3p1a, 20 MHz, low channel



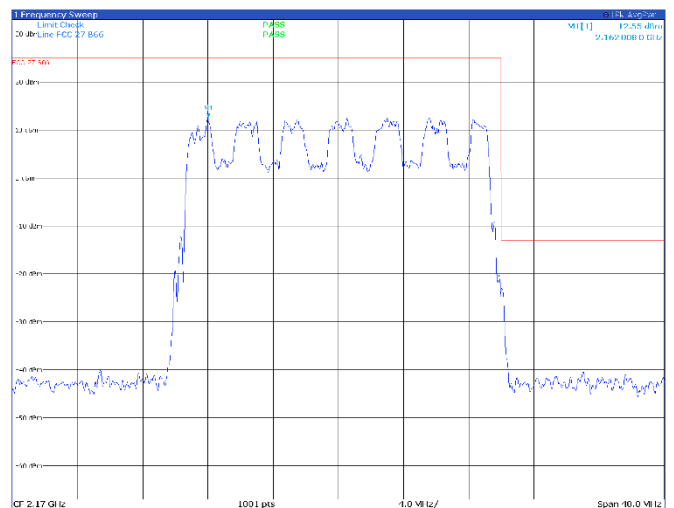
TM3p1a, 20 MHz, high channel



TM3p3, 20 MHz, low channel

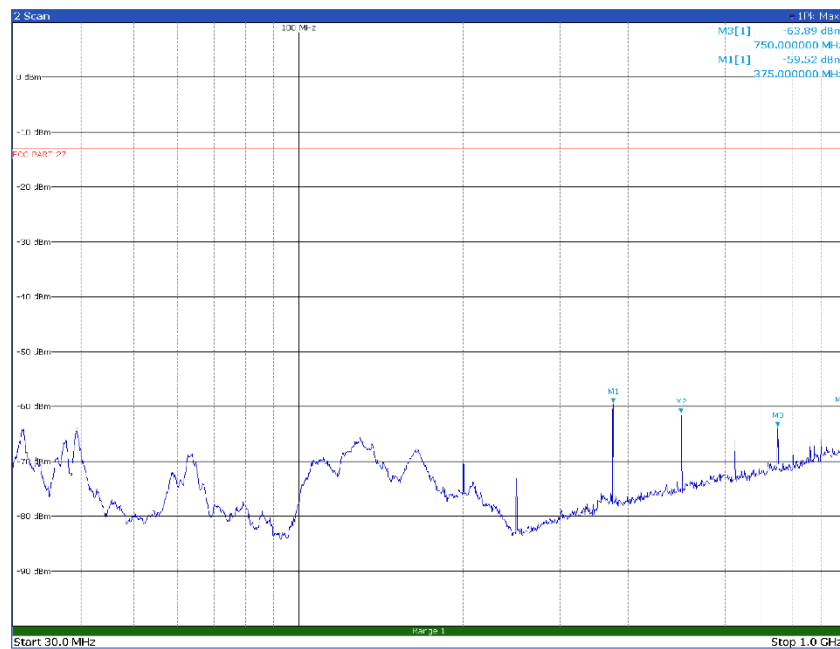


TM3p3, 20 MHz, high channel



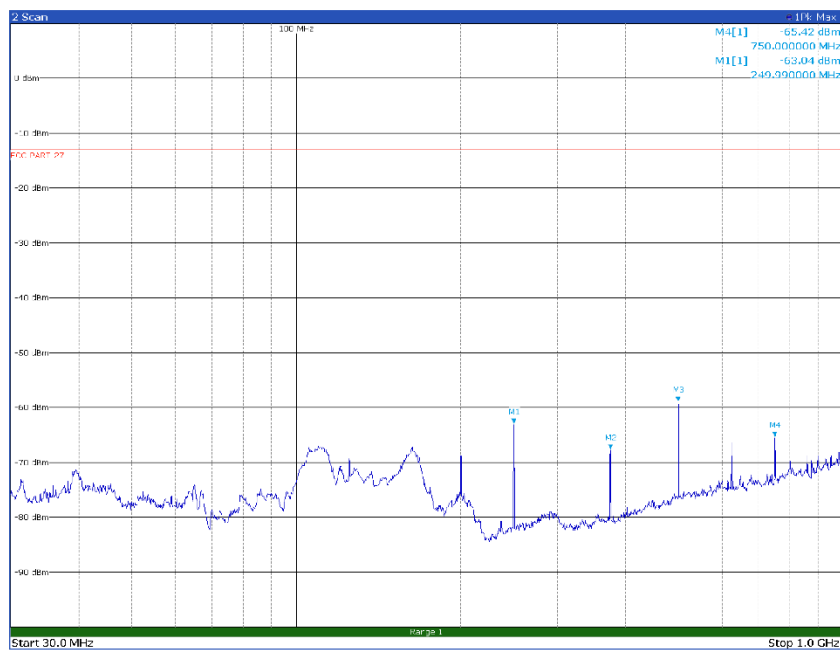
## Band n66 – radiated spurious emissions

5 MHz



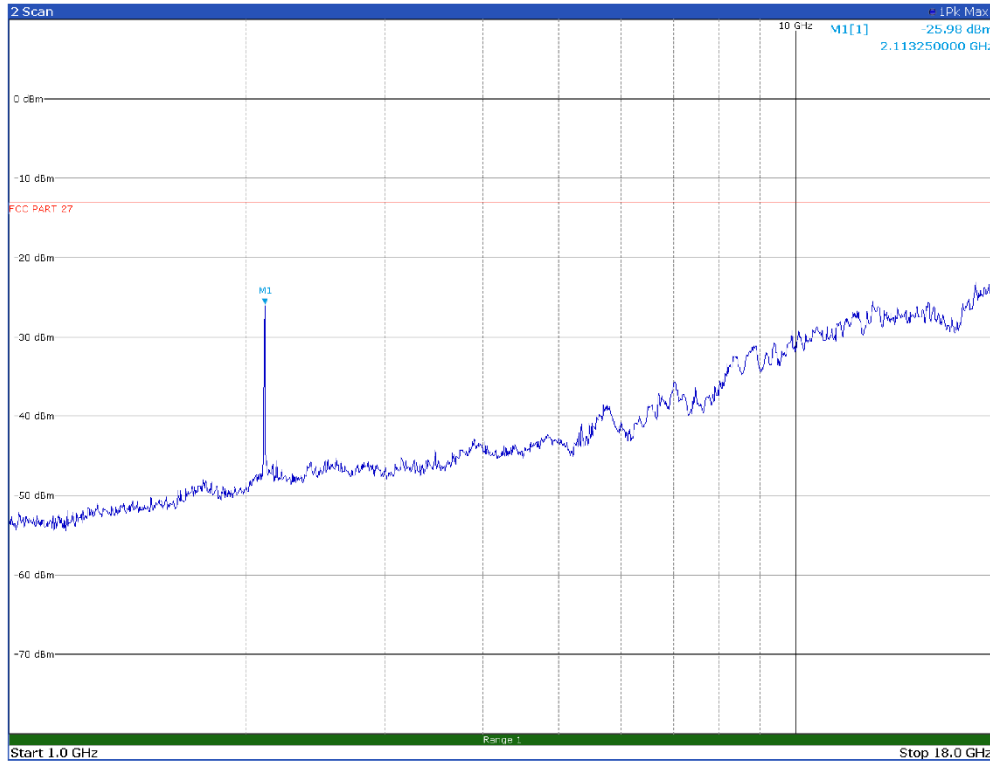
Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	375.0 MHz	-59.52 dBm
Scan	M2		1	500.01 MHz	-61.38 dBm
Scan	M3		1	750.0 MHz	-63.59 dBm
Scan	M4		1	999.99 MHz	-60.95 dBm

Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, low channel, TM3p3 modulation

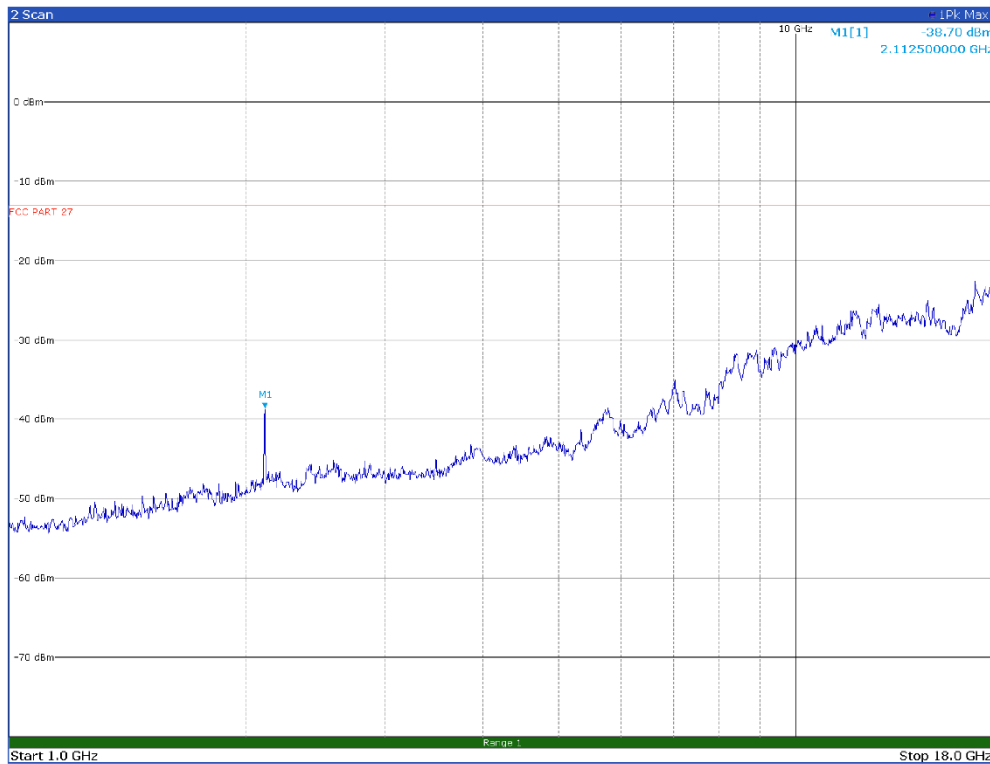


Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	249.99 MHz	-63.04 dBm
Scan	M2		1	375.0 MHz	-67.76 dBm
Scan	M3		1	500.01 MHz	-59.02 dBm
Scan	M4		1	750.0 MHz	-65.42 dBm

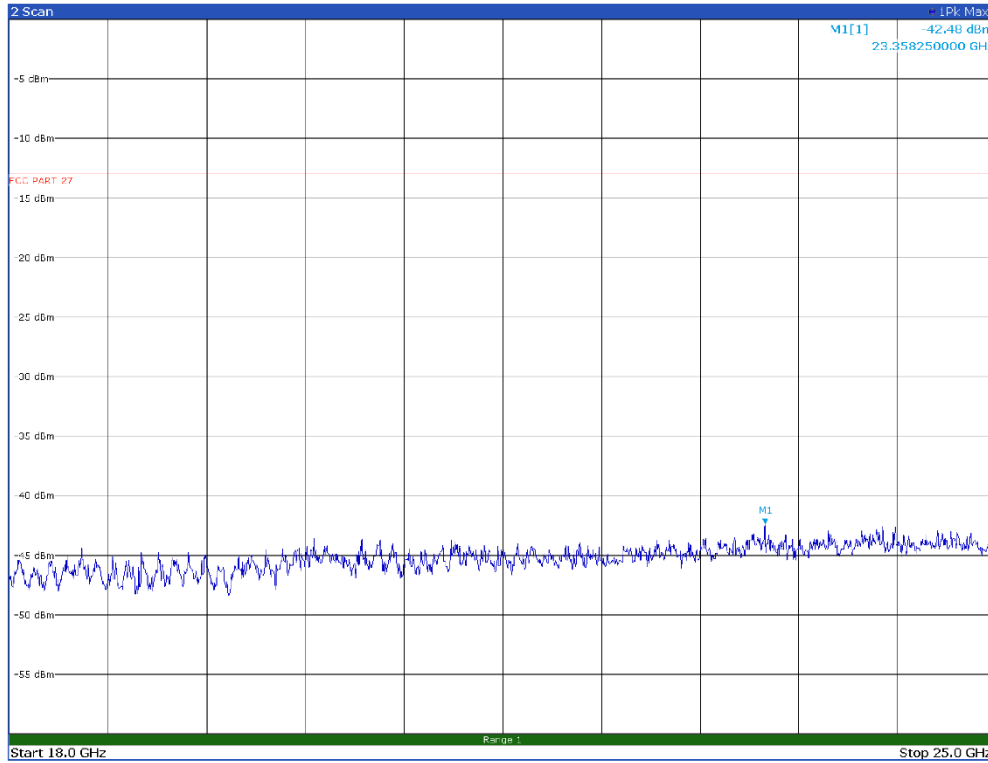
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, low channel, TM3p3 modulation



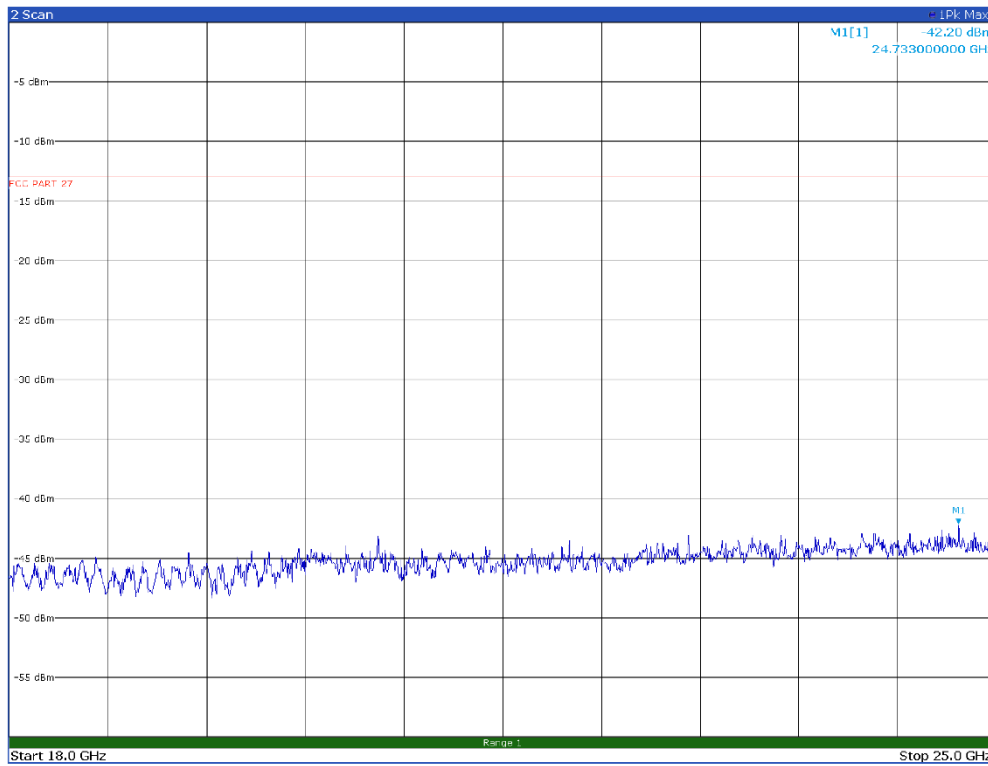
Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, low channel, TM3p3 modulation



Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, low channel, TM3p3 modulation

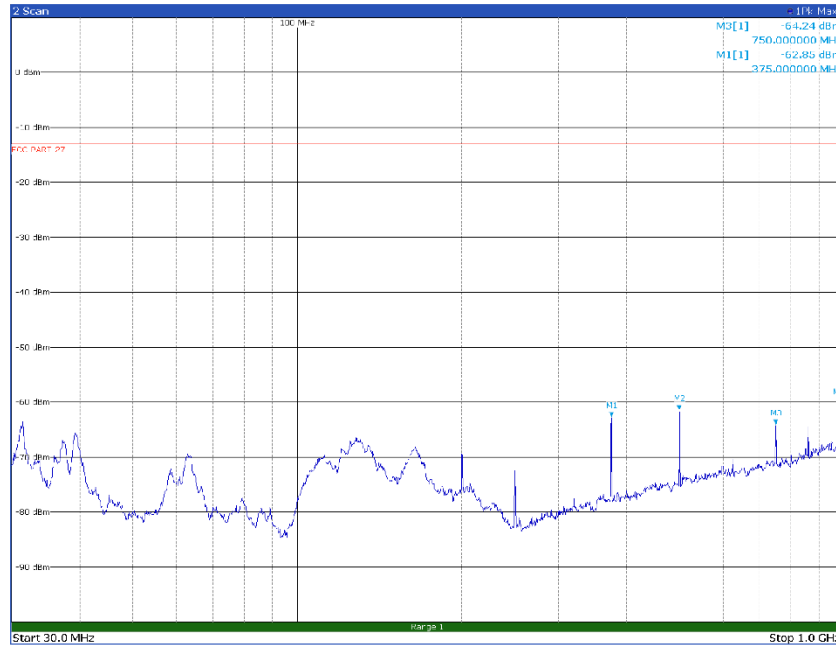


*Radiated emissions spectral plot (18 GHz - 25 GHz), vertical polarization, low channel, TM3p3 modulation*



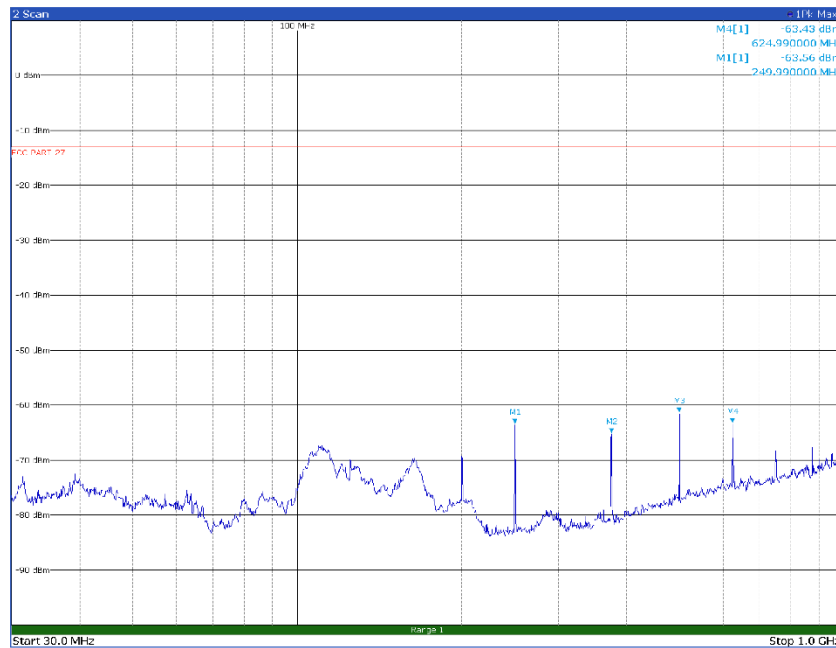
*Radiated emissions spectral plot (18 GHz - 25 GHz), horizontal polarization, low channel, TM3p3 modulation*





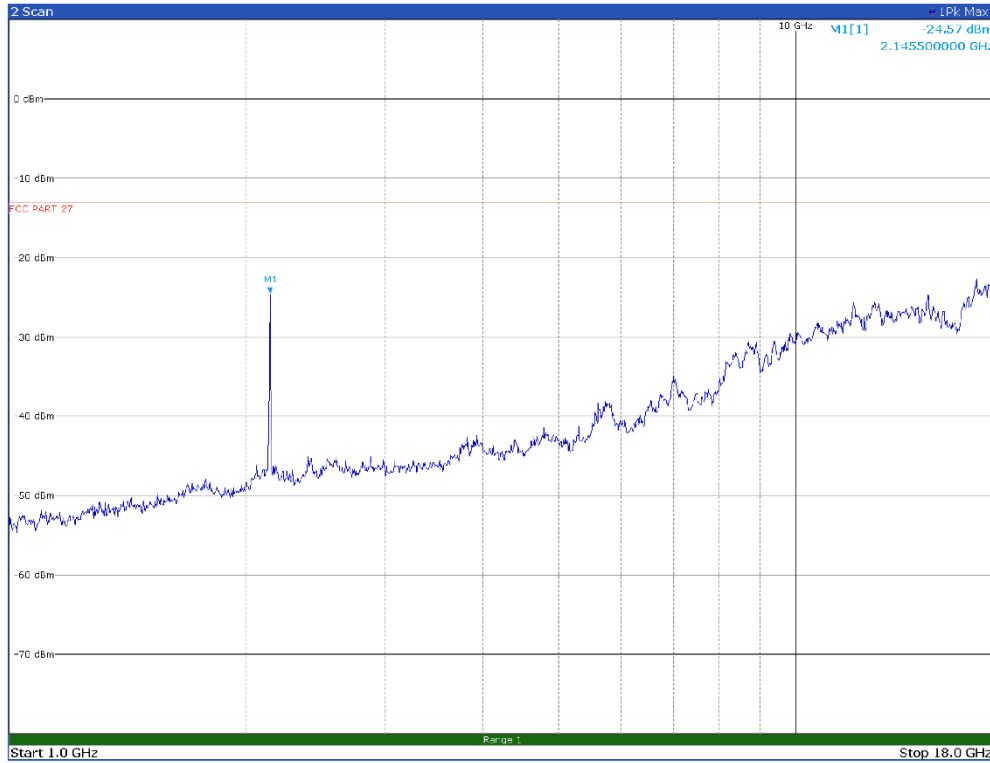
Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1	1	1	375.0 MHz	-62.55 dBm
Scan	M2	1	1	500.01 MHz	-61.53 dBm
Scan	M3	1	1	750.0 MHz	-64.24 dBm
Scan	M4	1	1	999.99 MHz	-60.28 dBm

Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, mid channel, TM3p3 modulation

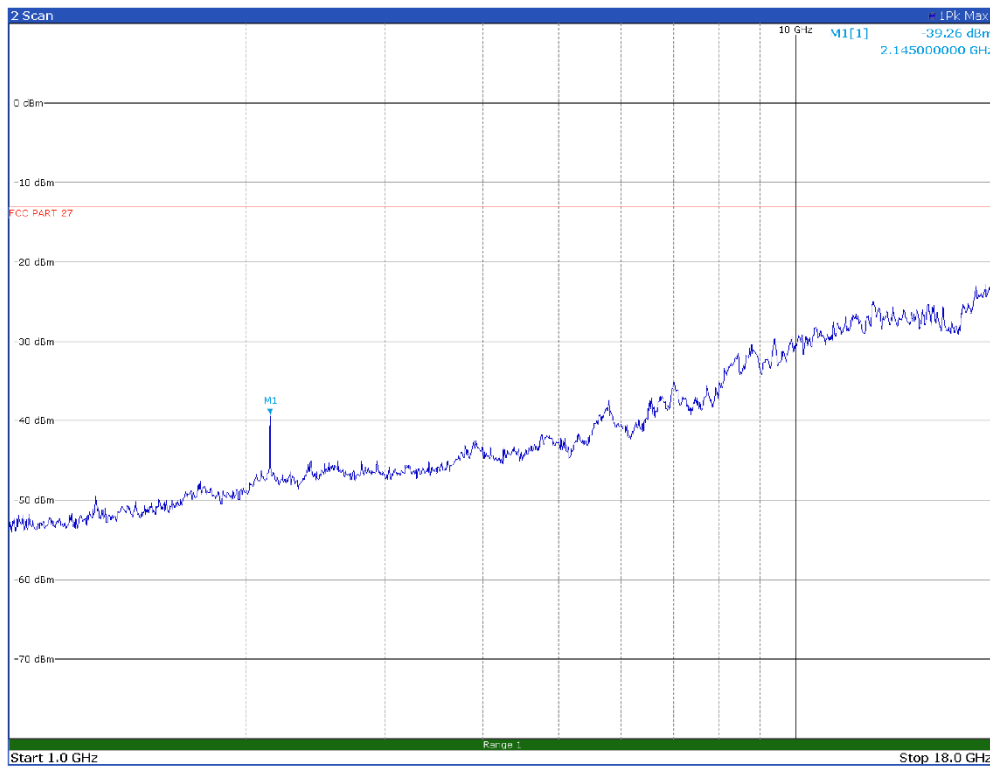


Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1	1	1	249.99 MHz	-63.56 dBm
Scan	M2	1	1	375.0 MHz	-65.26 dBm
Scan	M3	1	1	500.01 MHz	-61.44 dBm
Scan	M4	1	1	624.99 MHz	-63.43 dBm

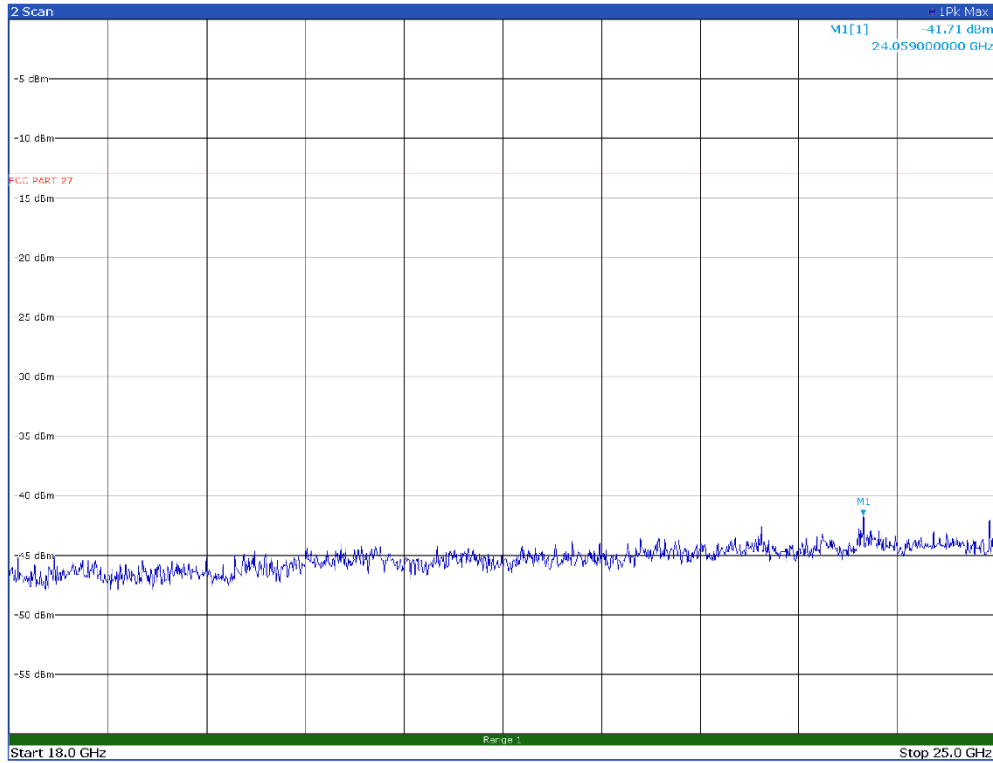
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, mid channel, TM3p3 modulation



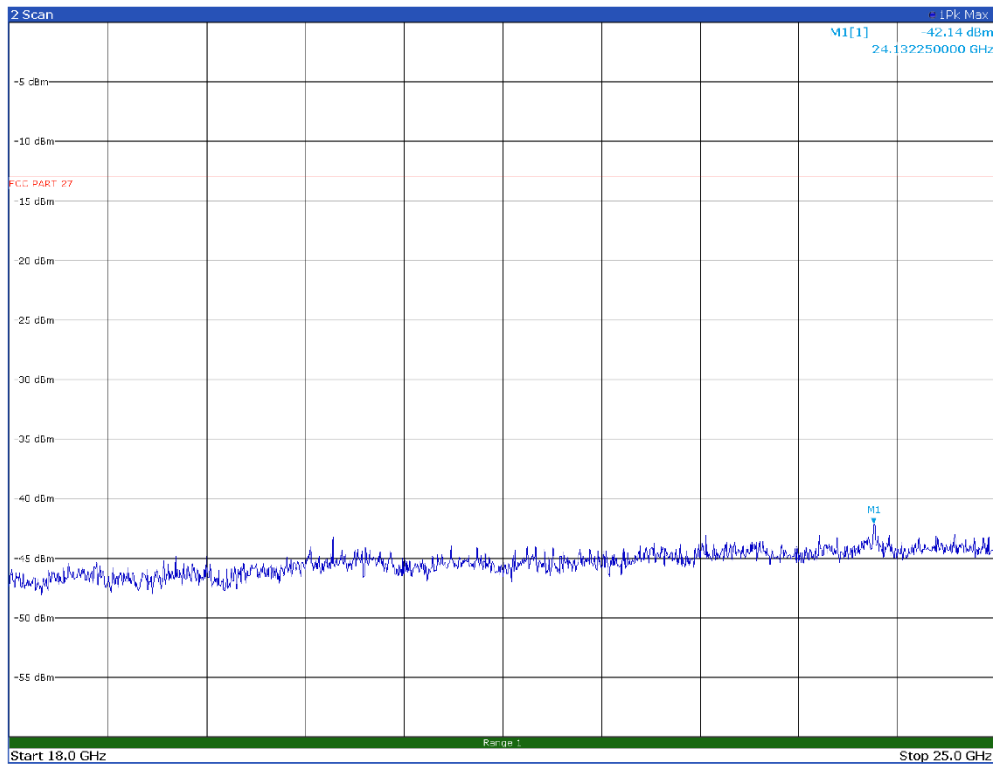
Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, mid channel, TM3p3 modulation



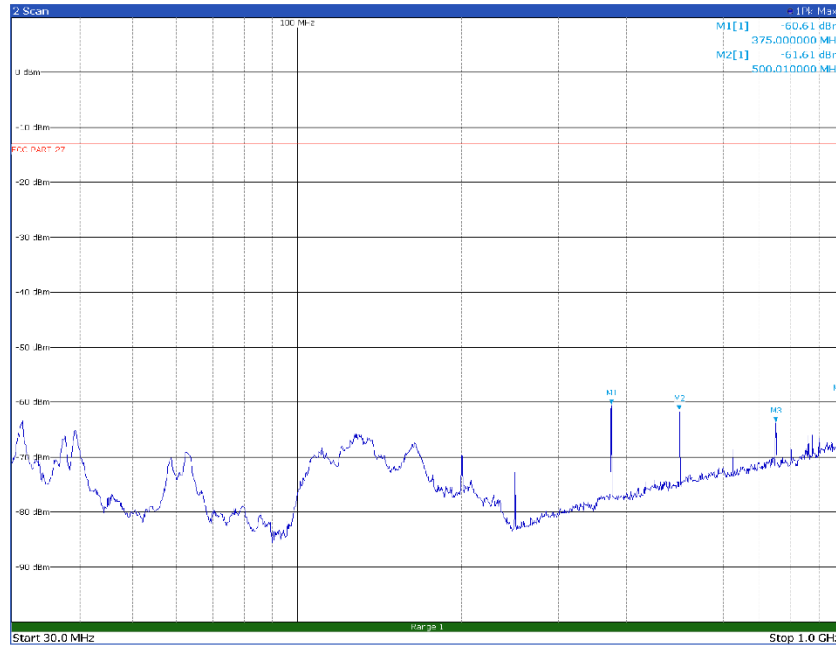
Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, mid channel, TM3p3 modulation



*Radiated emissions spectral plot (18 GHz - 25 GHz), vertical polarization, mid channel, TM3p3 modulation*

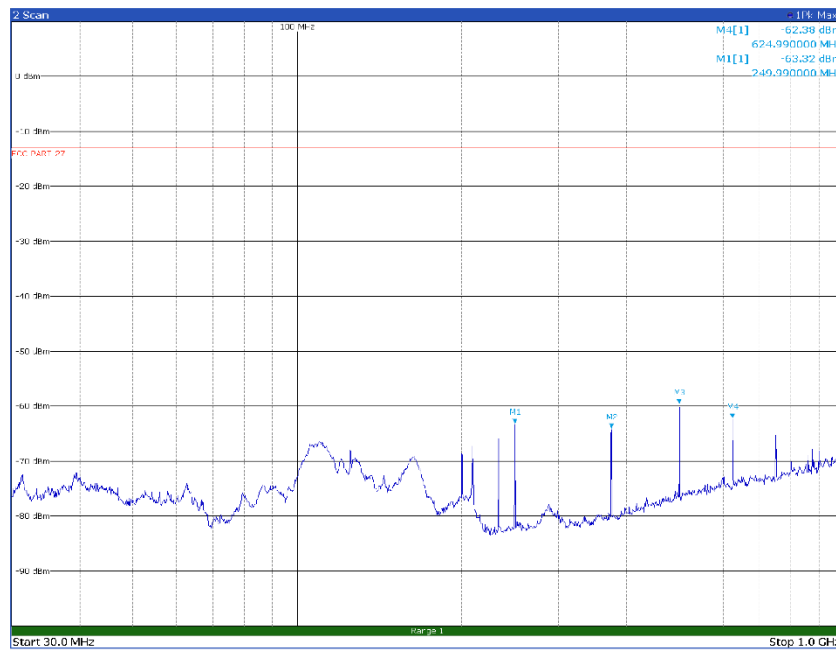


*Radiated emissions spectral plot (18 GHz - 25 GHz), horizontal polarization, mid channel, TM3p3 modulation*



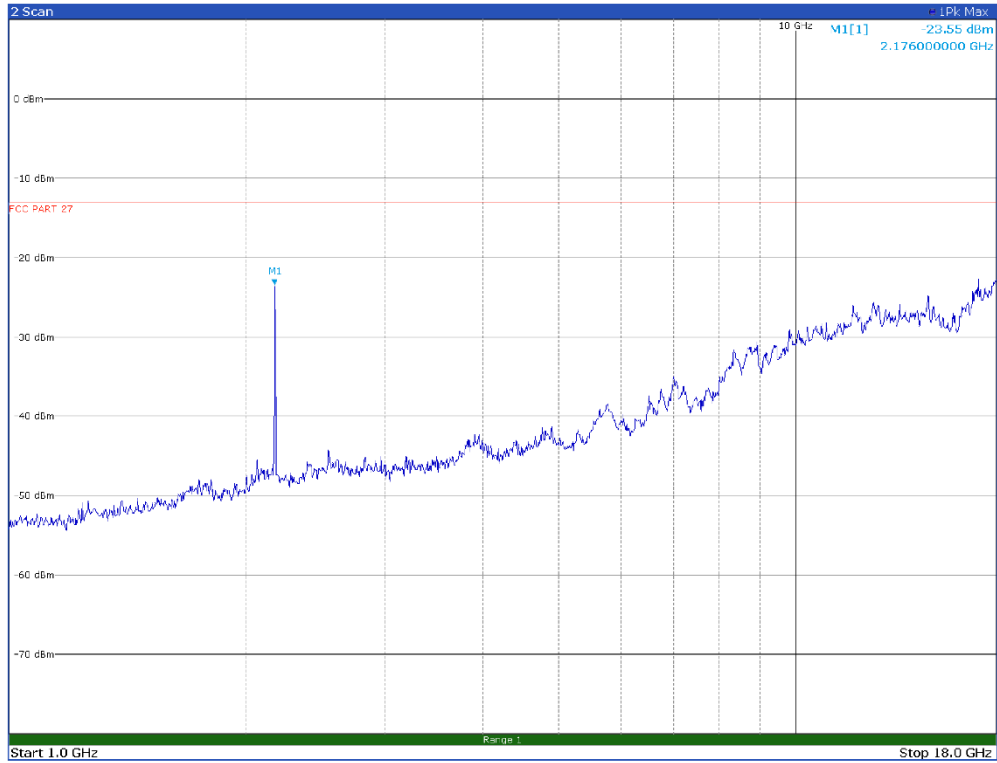
Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1	1	1	375.0 MHz	-60.61 dBm
Scan	M2	1	1	500.01 MHz	-61.61 dBm
Scan	M3	1	1	750.0 MHz	-63.75 dBm
Scan	M4	1	1	999.99 MHz	-59.62 dBm

Radiated emissions spectral plot (30 MHz - 1GHz), vertical polarization, high channel, TM3p3 modulation

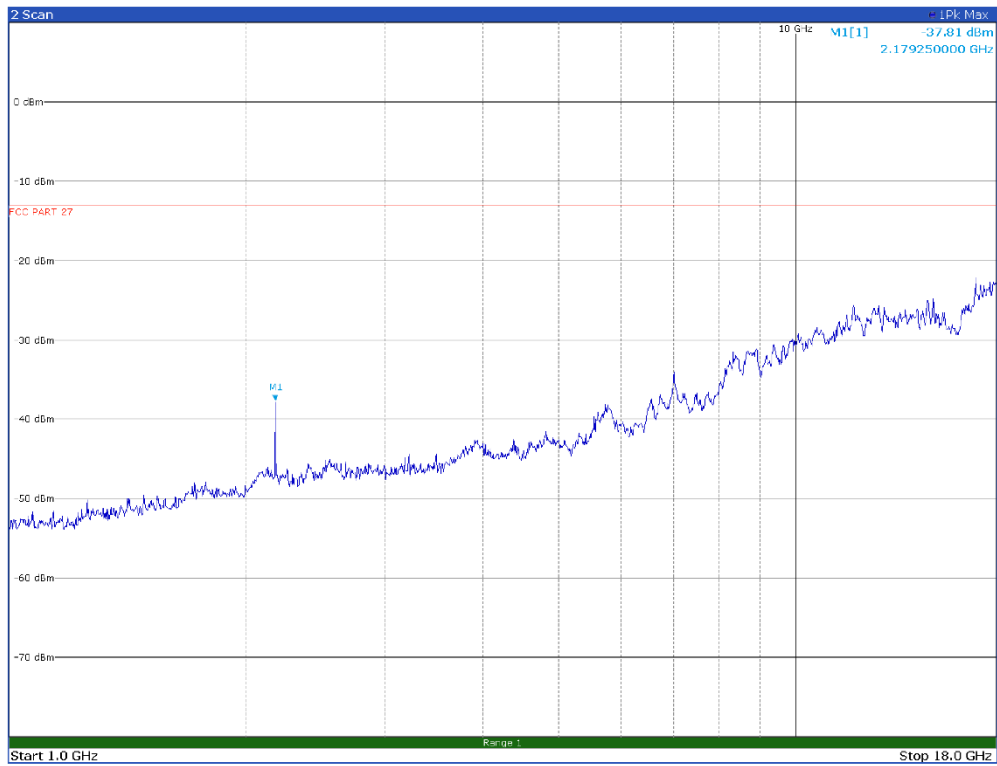


Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1	1	1	249.99 MHz	-63.32 dBm
Scan	M2	1	1	375.0 MHz	-64.21 dBm
Scan	M3	1	1	500.01 MHz	-59.8 dBm
Scan	M4	1	1	624.99 MHz	-62.38 dBm

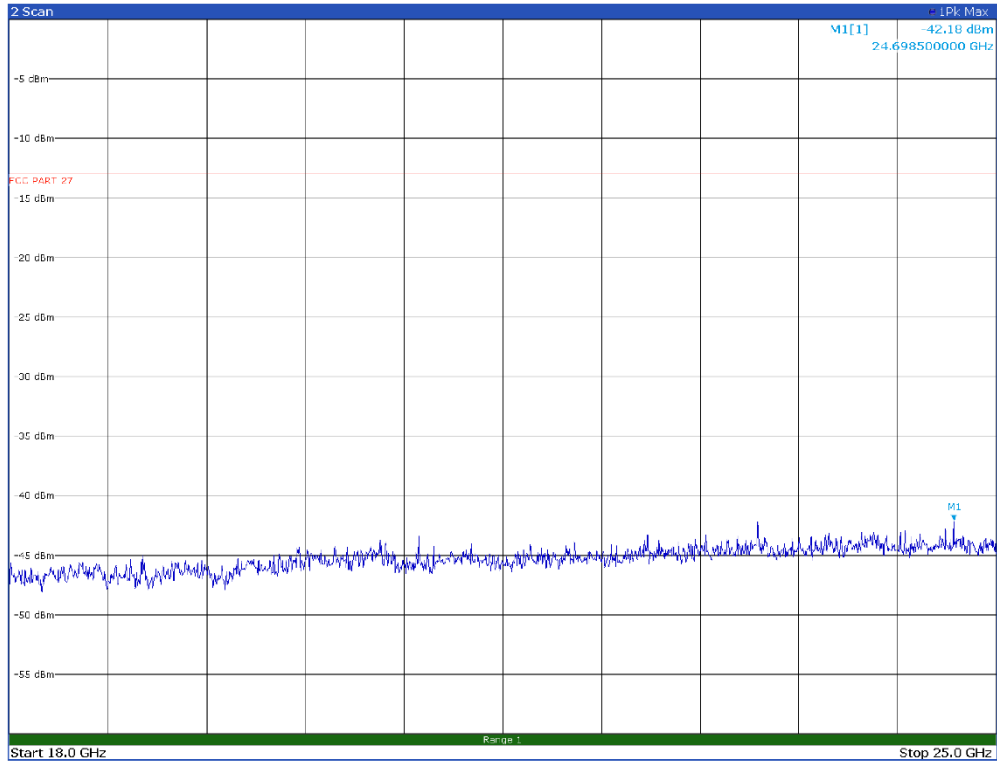
Radiated emissions spectral plot (30 MHz - 1GHz), horizontal polarization, high channel, TM3p3 modulation



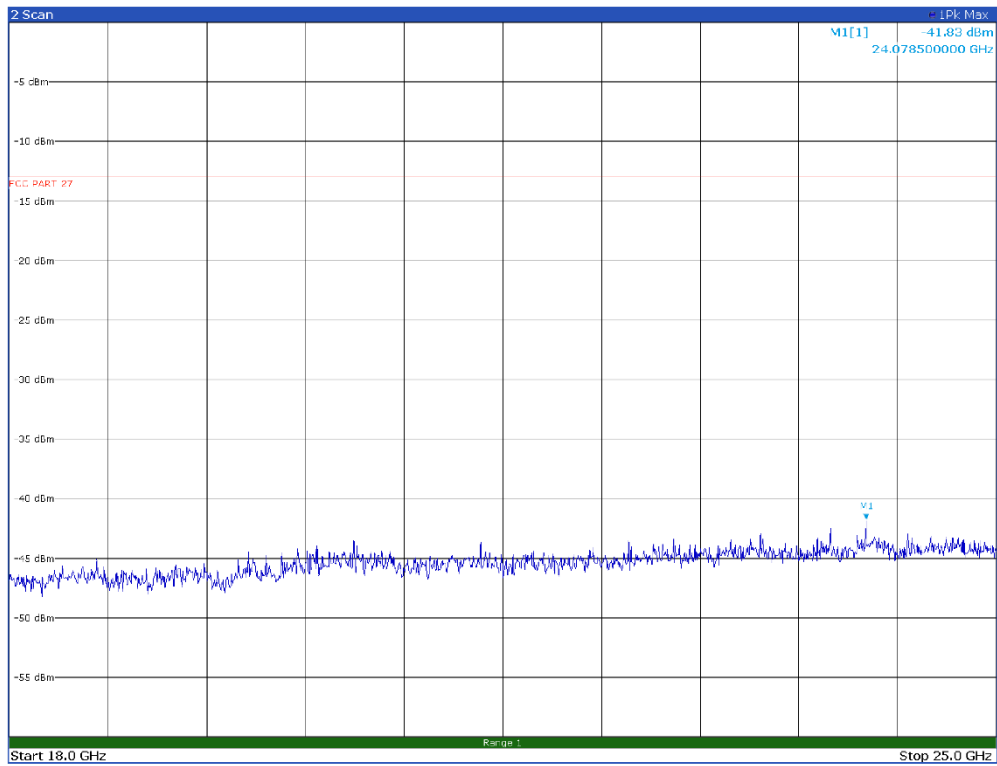
*Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, high channel, TM3p3 modulation*



*Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, high channel, TM3p3 modulation*



*Radiated emissions spectral plot (18 GHz – 25 GHz), vertical polarization, high channel, TM3p3 modulation*



*Radiated emissions spectral plot (18 GHz – 25 GHz), horizontal polarization, high channel, TM3p3 modulation*

## 8.7 FCC 27.54 Frequency Stability

### 8.7.1 Definitions and limits

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

### 8.7.2 Test summary

Test date	October 10, 2024	Temperature	21 °C
Test engineer	O. Frau	Air pressure	1005 mbar
Verdict	Pass	Relative humidity	64%

### 8.7.3 Observations, settings and special notes

The EUT was configured to continuously transmit an un-modulated continuous wave signal. The frequency measurement was performed using the marker-signal count functionality of the spectrum analyzer. The only requirement from Part 27 is that the carrier stays within the allocated band.

### 8.7.4 Test data

#### Band n66:

*Table Errore. Per applicare Heading 2 al testo da visualizzare in questo punto, utilizzare la scheda Home.-1: Frequency stability results, band n66*

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm
+50 °C, Nominal	2145001785.0	1999.0	0.93
+40 °C, Nominal	2145001897.0	2111.0	0.98
+30 °C, Nominal	2144999433.0	-353.0	-0.16
+20 °C, +15%	2145000788.0	1002.0	0.47
+20 °C, Nominal	2144999786.0	Reference	Reference
+20 °C, -15%	2144999548.0	-238.0	-0.11
+10 °C, Nominal	2145000760.0	974.0	0.45
0 °C, Nominal	2144997245.0	-2541.0	-1.18
-10 °C, Nominal	2145002024.0	2238.0	1.04
-20 °C, Nominal	2145001787.0	2001.0	0.93
-30 °C, Nominal	2145000775.0	989.0	0.46

## Section 9. Block diagrams of test setups

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### 9.1 Conducted emissions set-up

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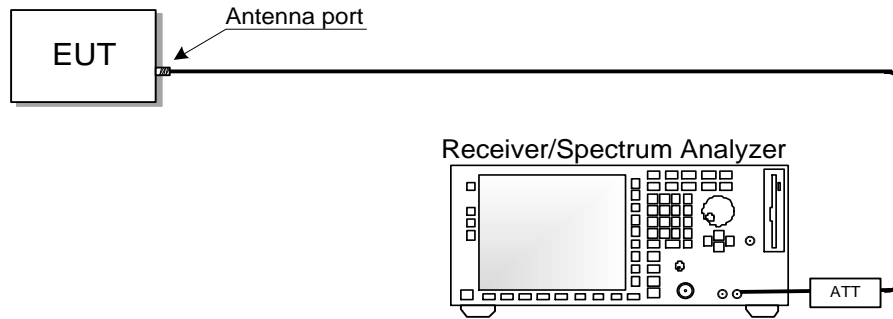


Figure 9.1-1: Conducted setup



9.2 Radiated emissions set-up

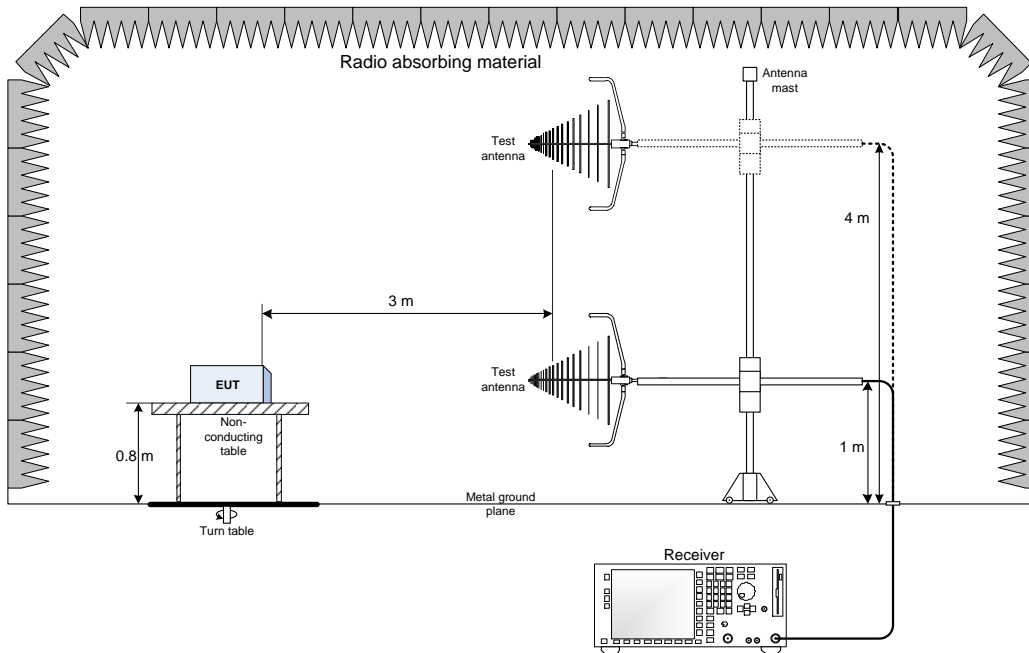


Figure 9.2-1: Below 1 GHz setup

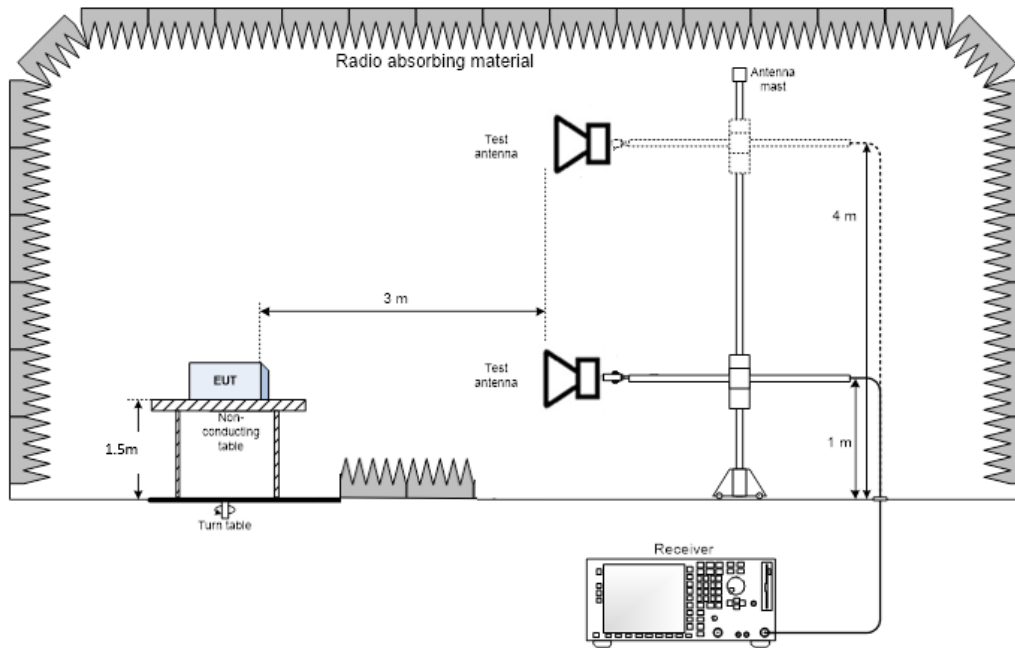


Figure 9.2-2: Above 1GHz setup

End of Report