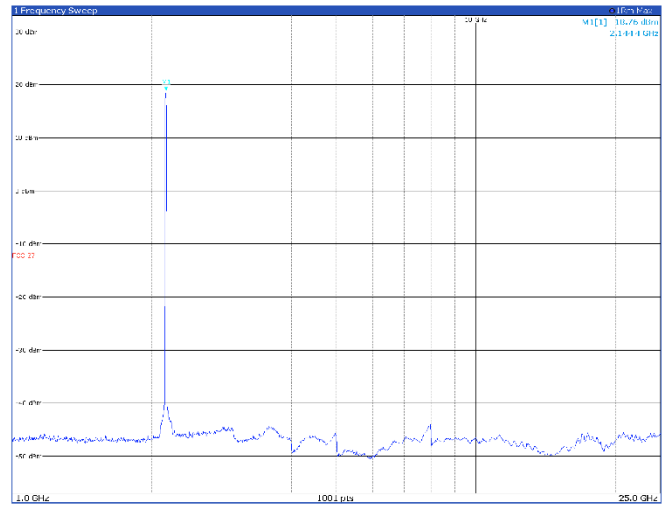
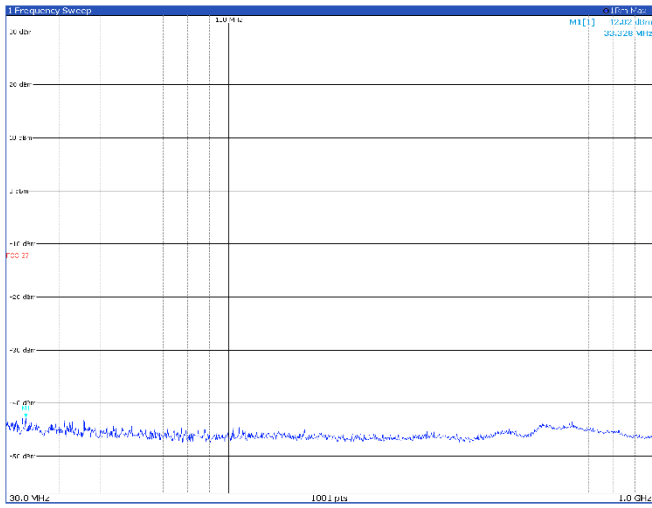
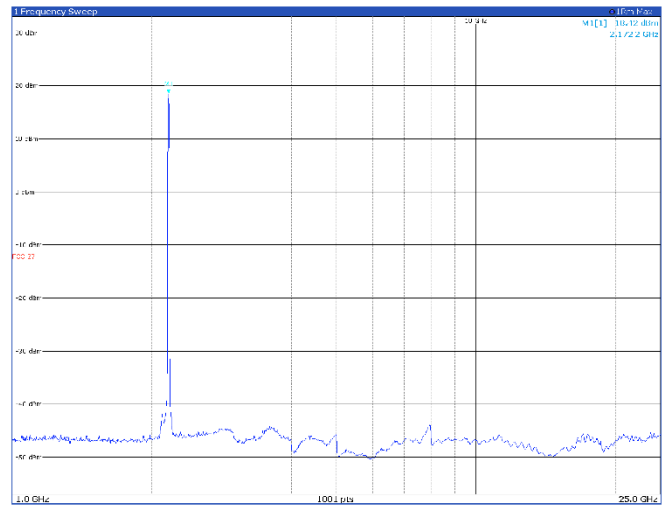
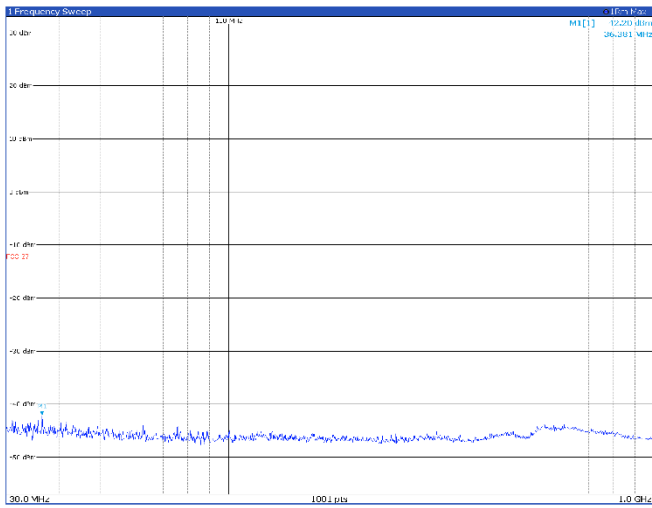


TM3p3, 15 MHz, mid channel



Limit exceeded by the carrier

TM3p3, 15 MHz, high channel

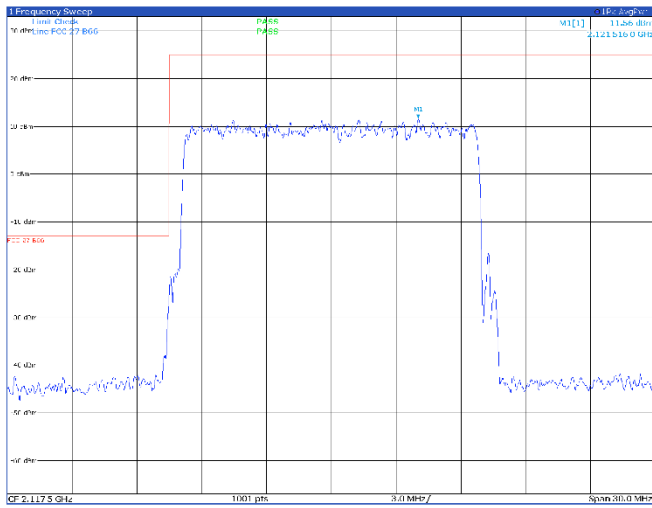


Limit exceeded by the carrier

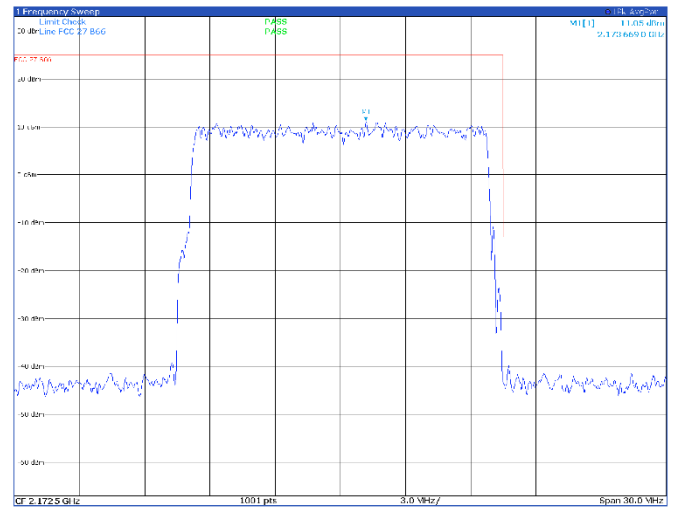
Band B66 – band edge Antenna port 1

15 MHz

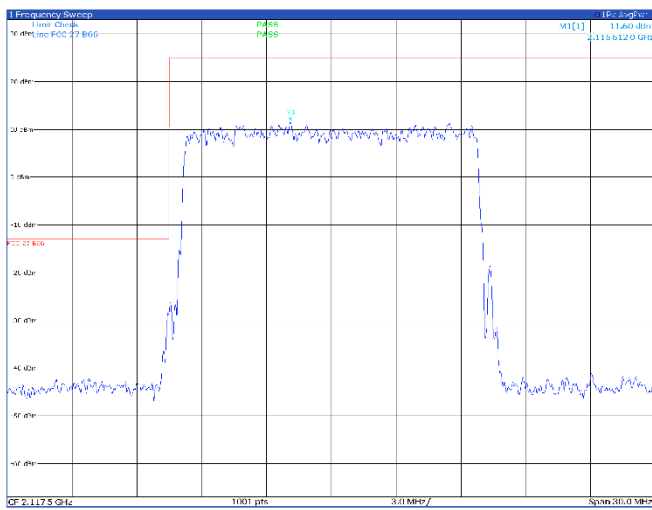
TM1.1, 15 MHz, low channel



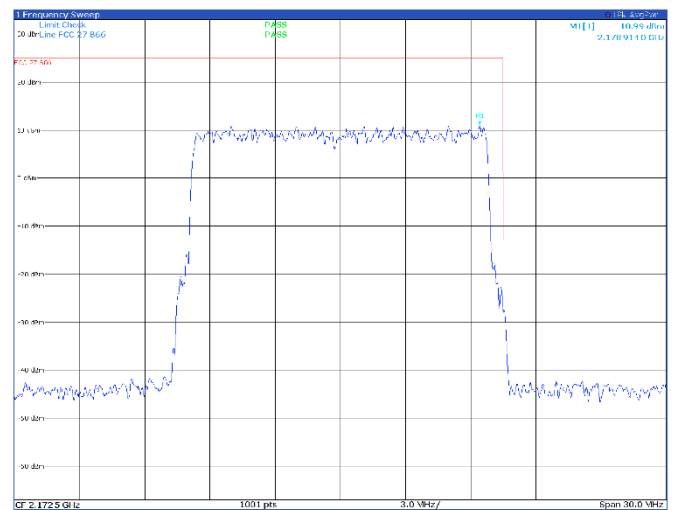
TM1.1, 15 MHz, high channel



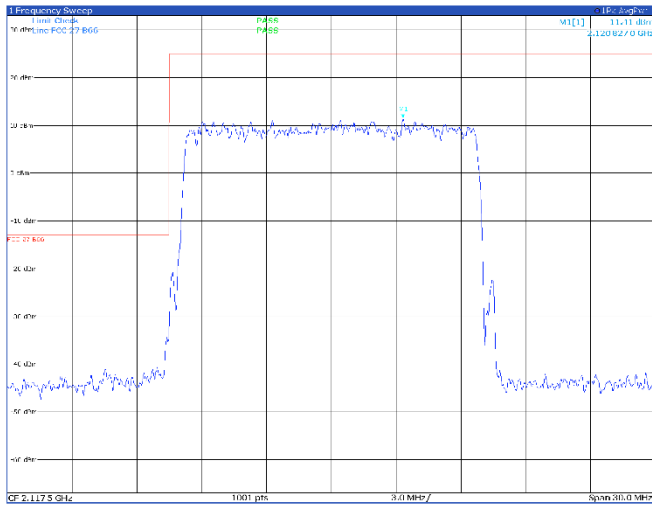
TM3p1, 15 MHz, low channel



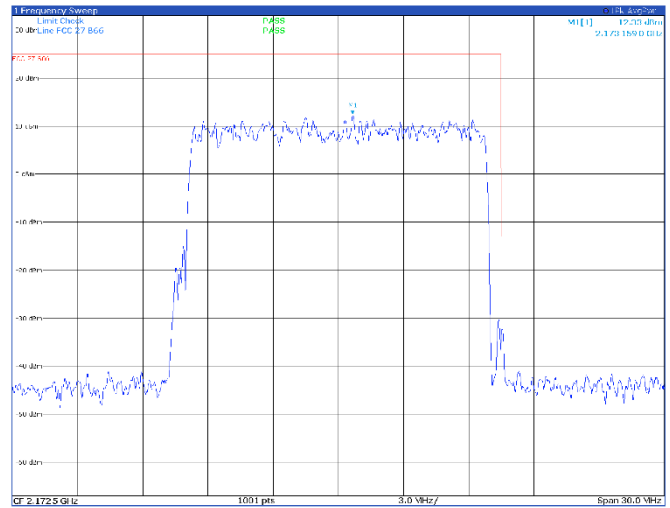
TM3p1, 15 MHz, high channel



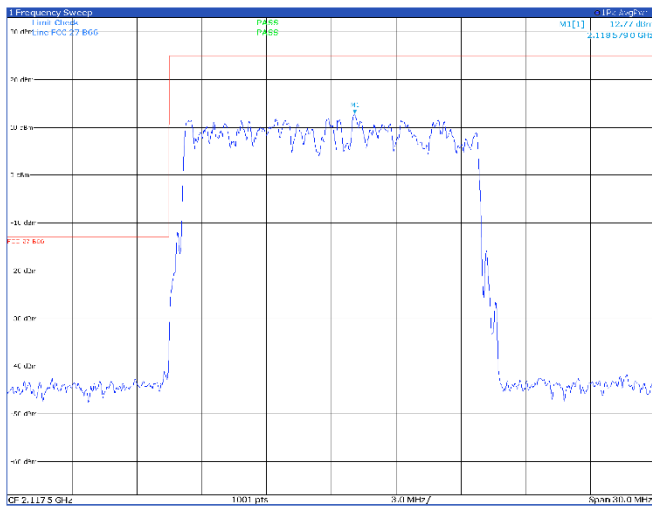
TM3p1a, 15 MHz, low channel



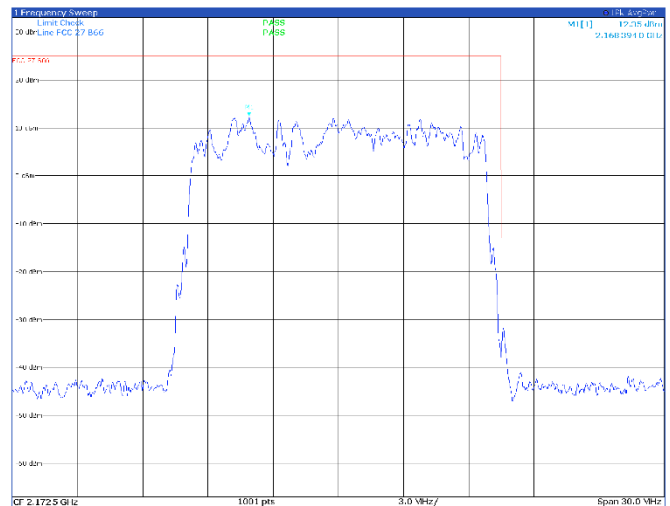
TM3p1a, 15 MHz, high channel



TM3p3, 15 MHz, low channel



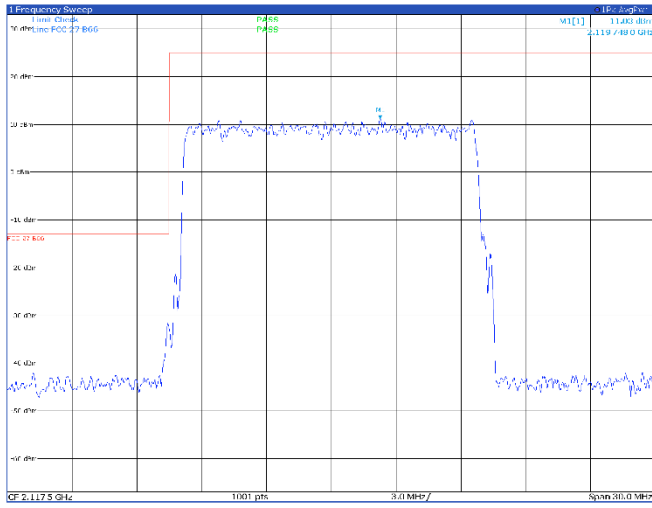
TM3p3, 15 MHz, high channel



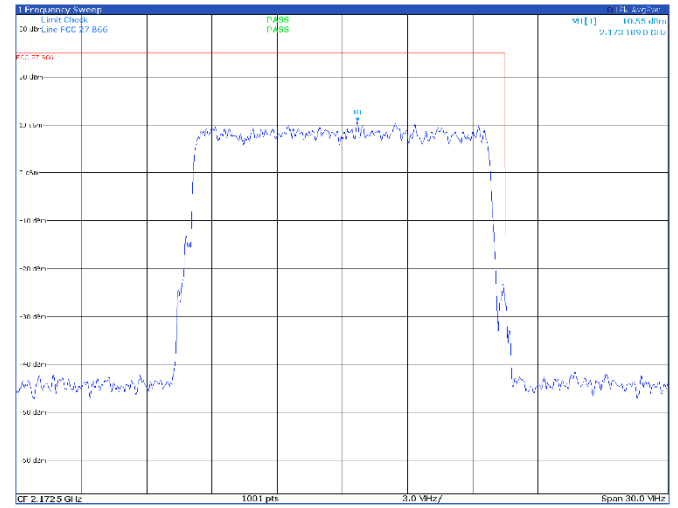
Band B66 – band edge Antenna port 2

15 MHz

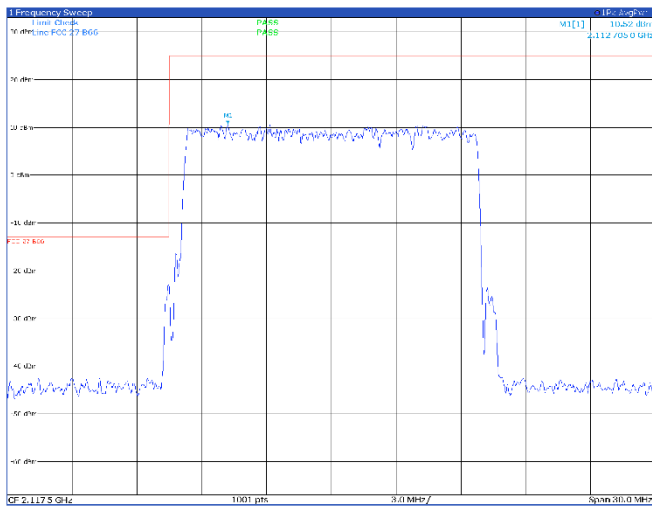
TM1.1, 15 MHz, low channel



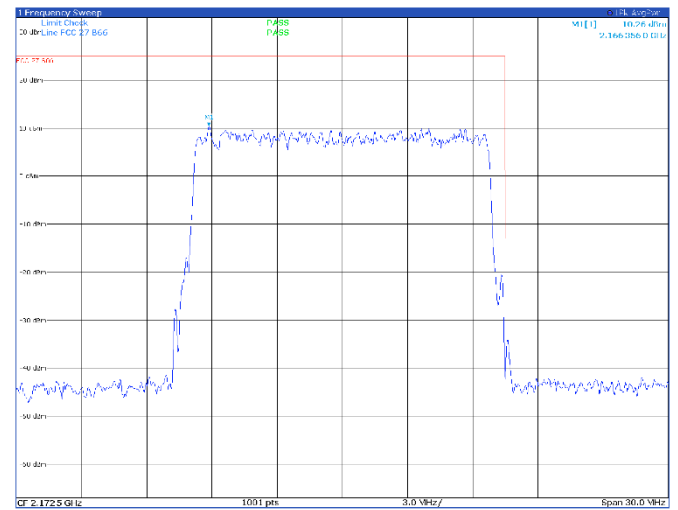
TM1.1, 15 MHz, high channel



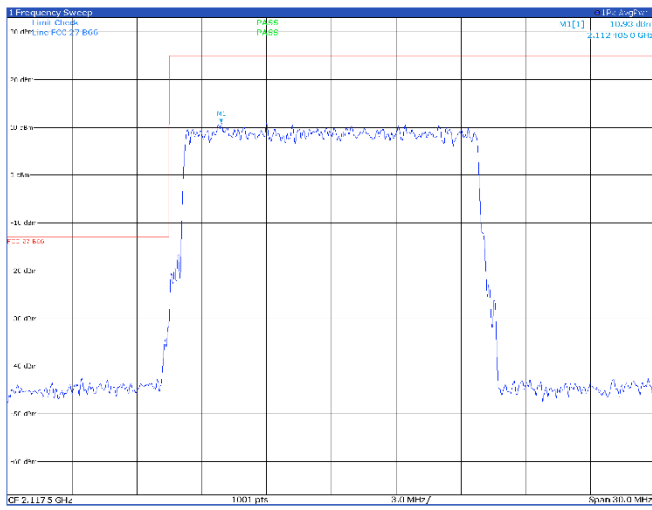
TM3p1, 15 MHz, low channel



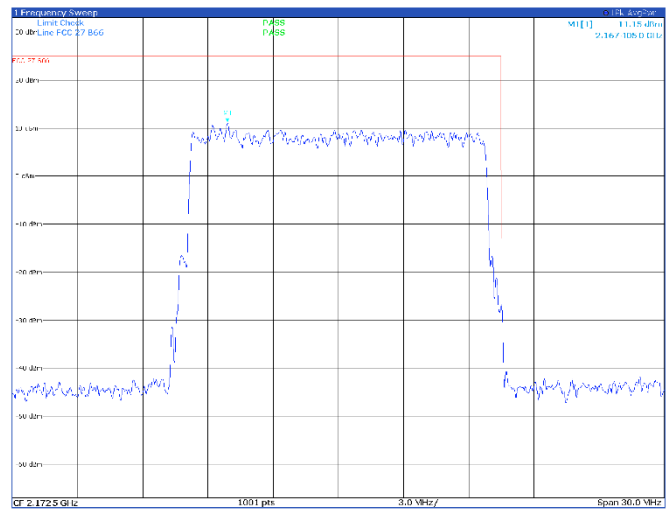
TM3p1, 15 MHz, high channel



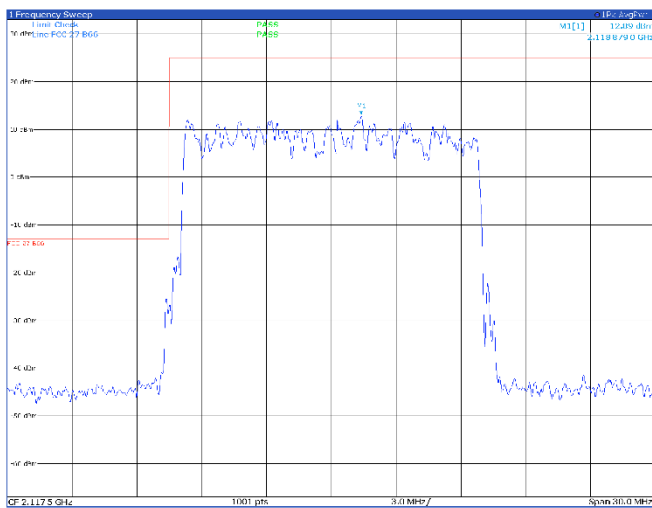
TM3p1a, 15 MHz, low channel



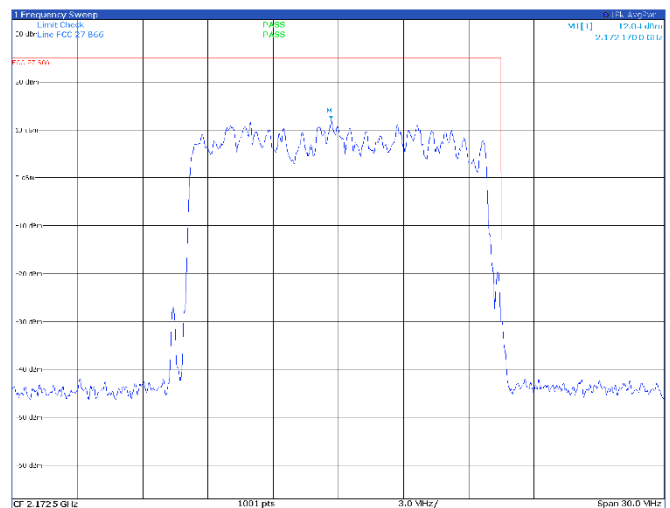
TM3p1a, 15 MHz, high channel



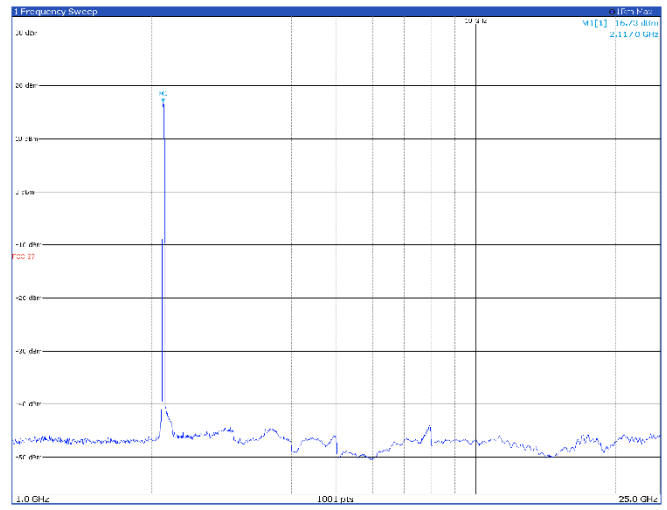
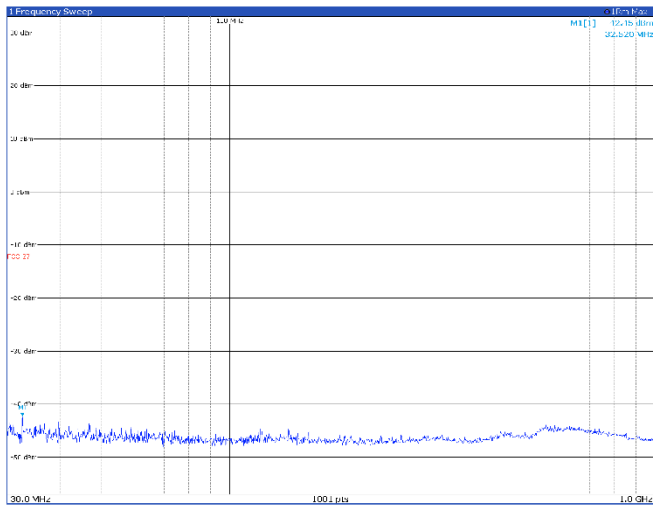
TM3p3, 15 MHz, low channel



TM3p3, 15 MHz, high channel

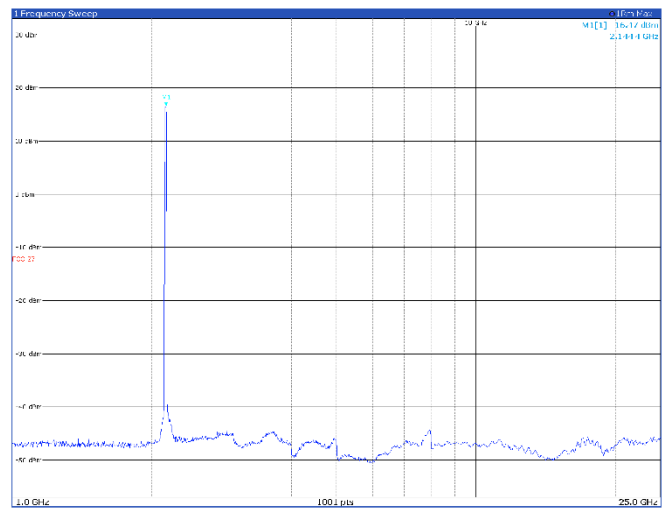
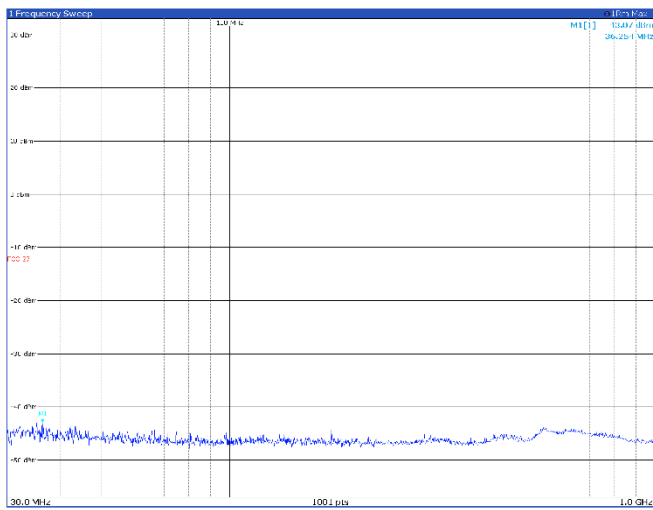


TM1.1, 20 MHz, low channel



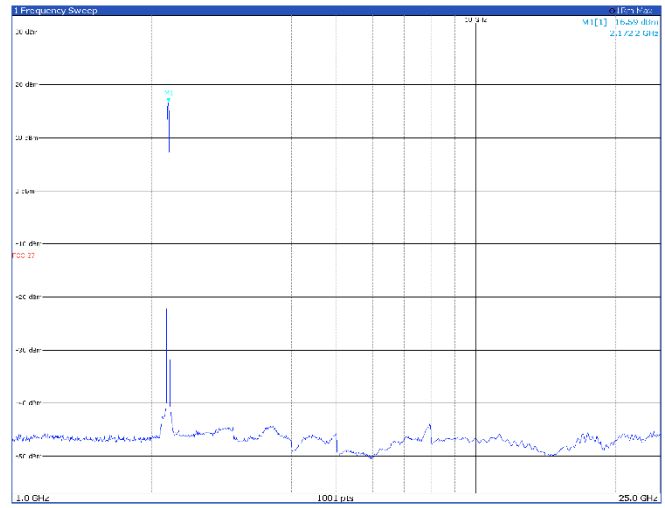
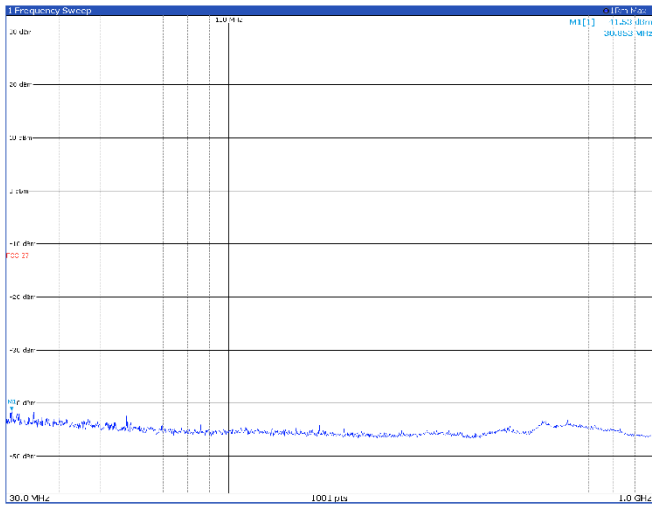
Limit exceeded by the carrier

TM1.1, 20 MHz, mid channel



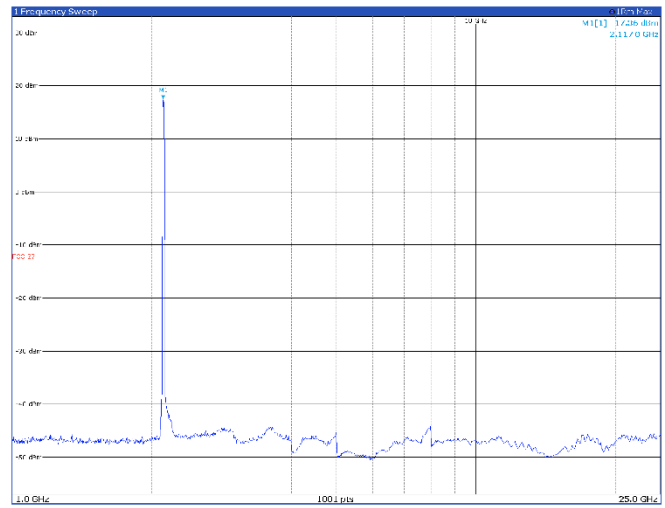
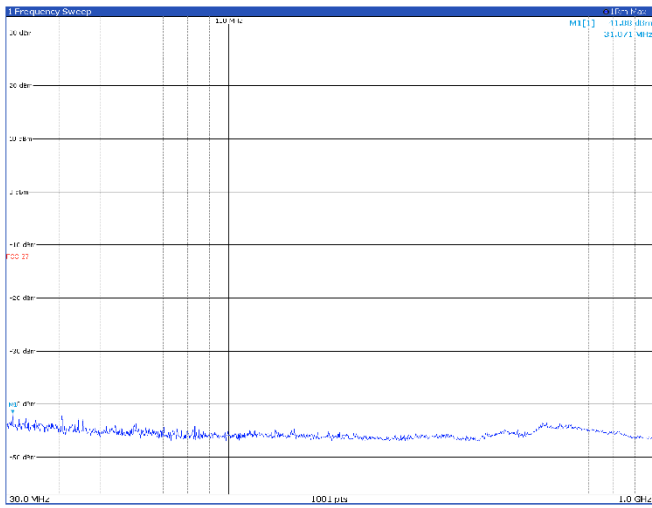
Limit exceeded by the carrier

TM1.1, 20 MHz, high channel



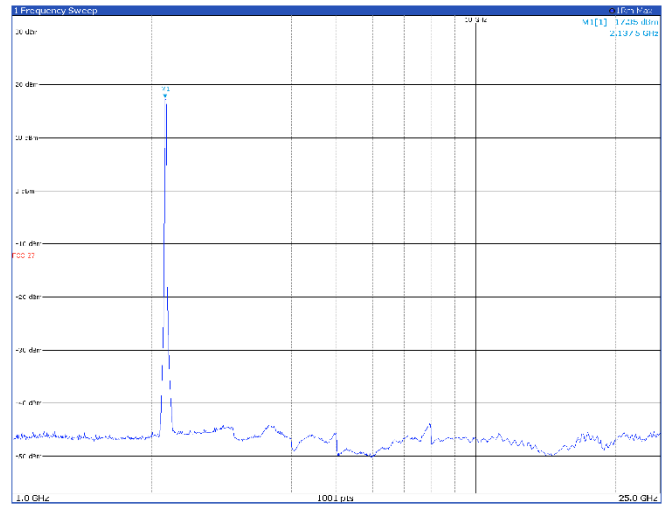
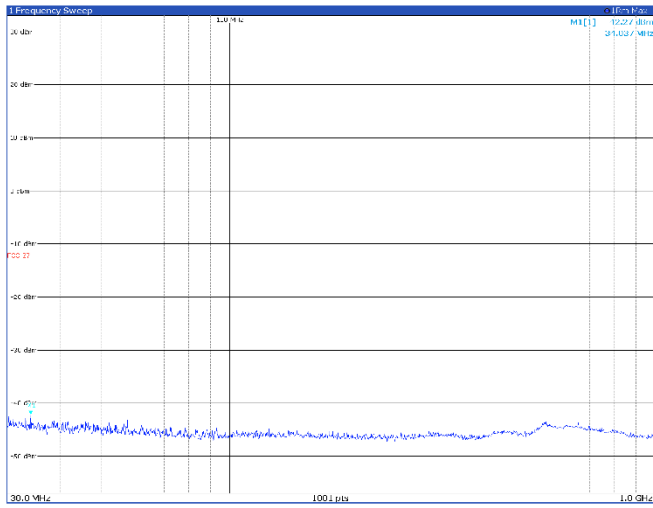
Limit exceeded by the carrier

TM3p1, 20 MHz, low channel



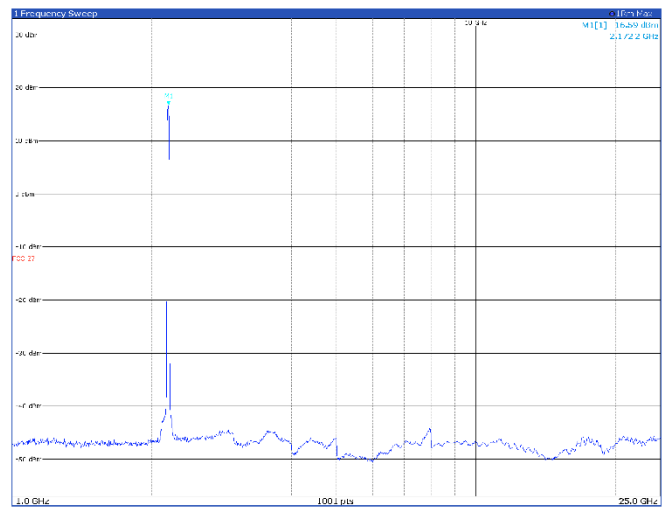
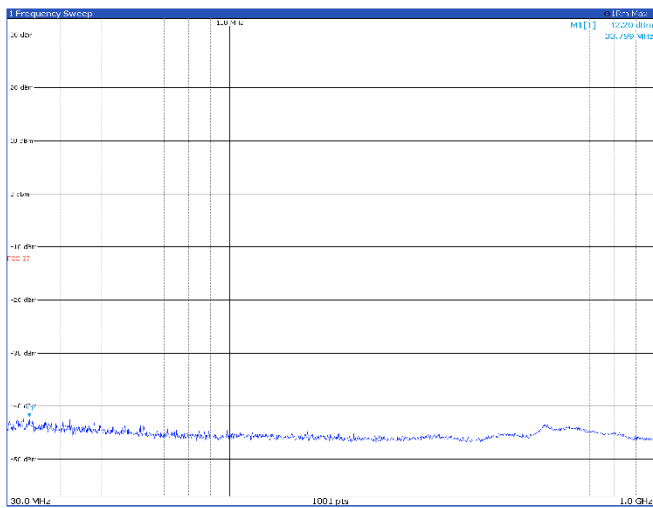
Limit exceeded by the carrier

TM3p1, 20 MHz, mid channel



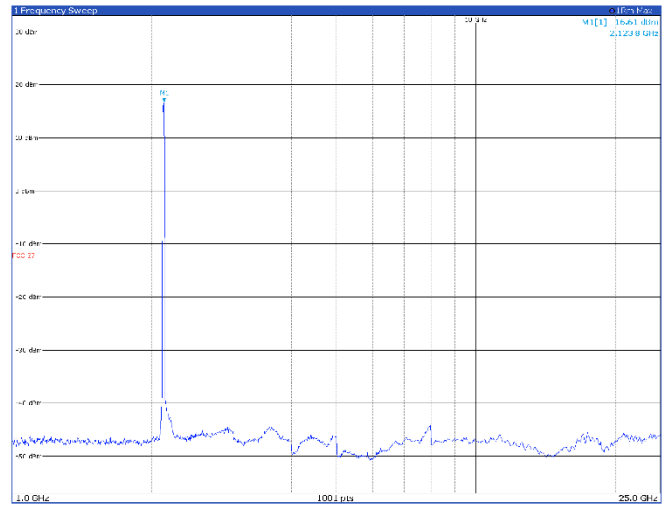
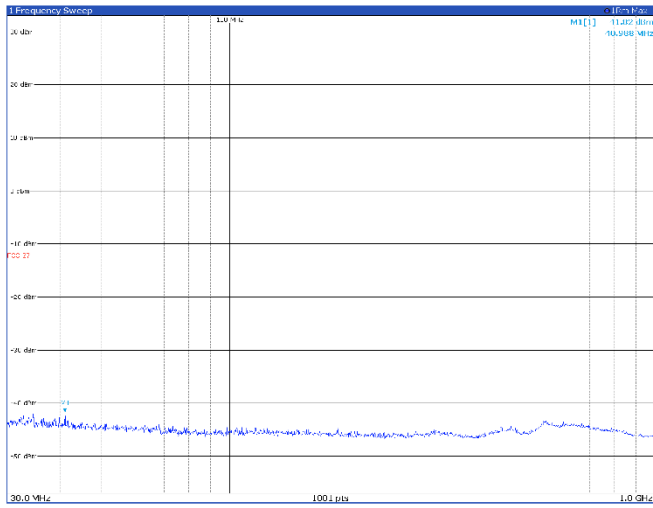
Limit exceeded by the carrier

TM3p1, 20 MHz, high channel



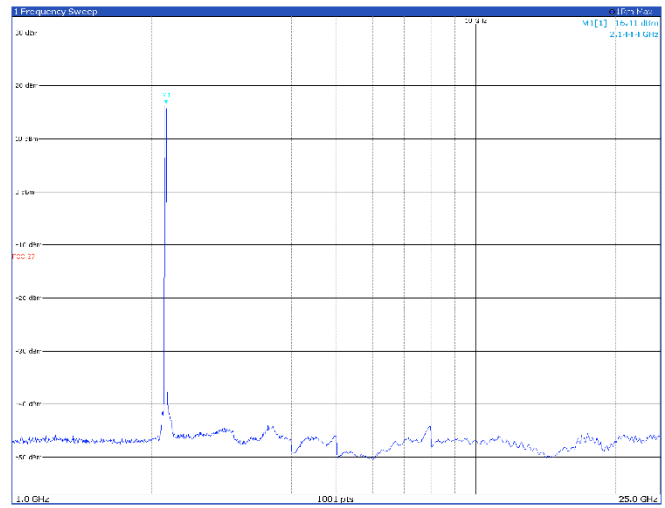
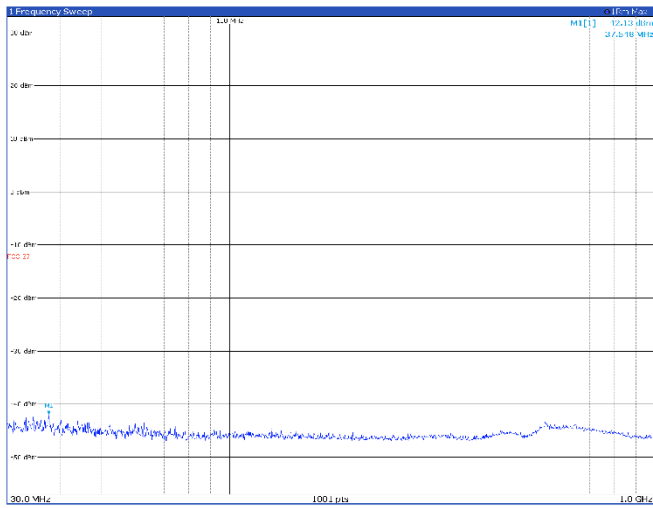
Limit exceeded by the carrier

TM3p1a, 20 MHz, low channel



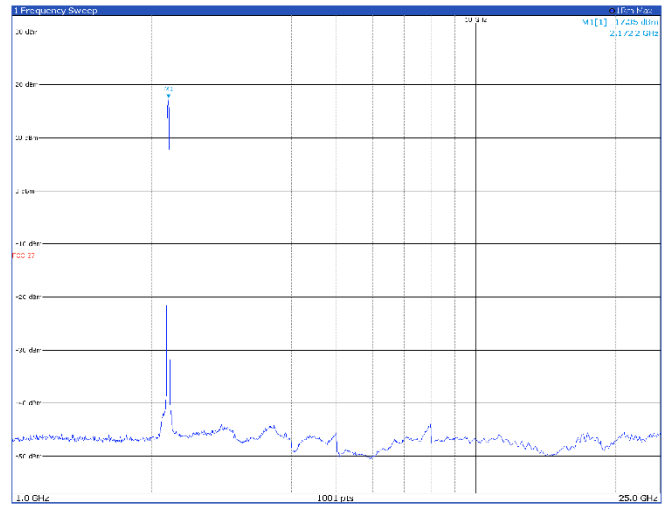
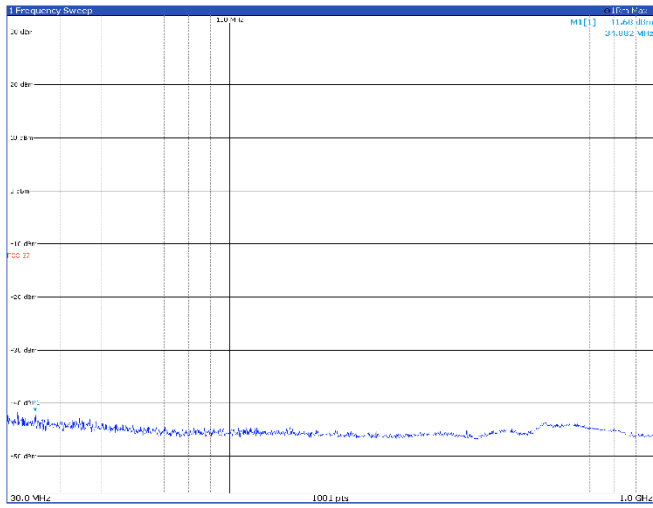
Limit exceeded by the carrier

TM3p1a, 20 MHz, mid channel



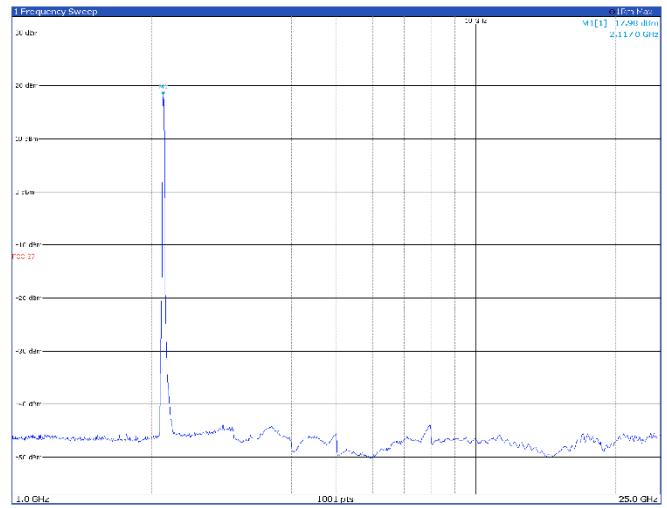
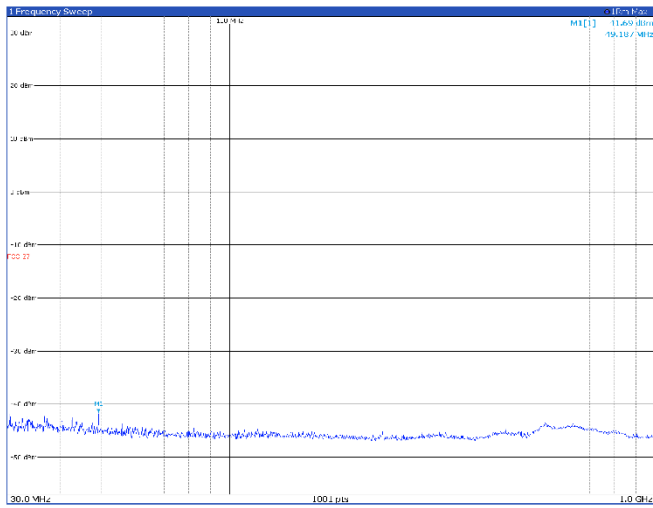
Limit exceeded by the carrier

TM3p1a, 20 MHz, high channel



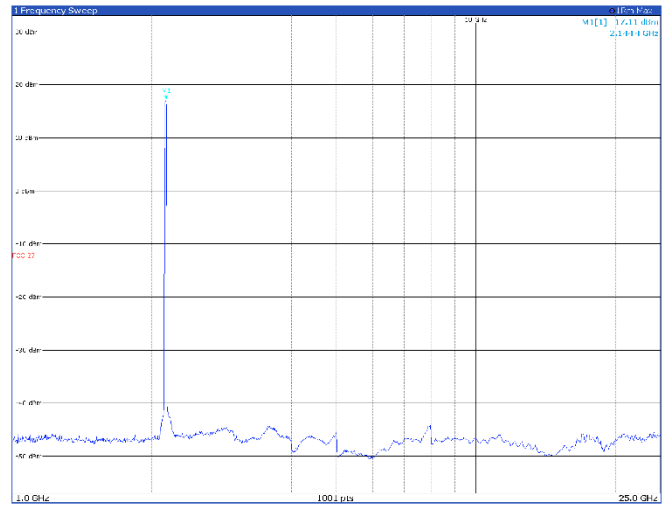
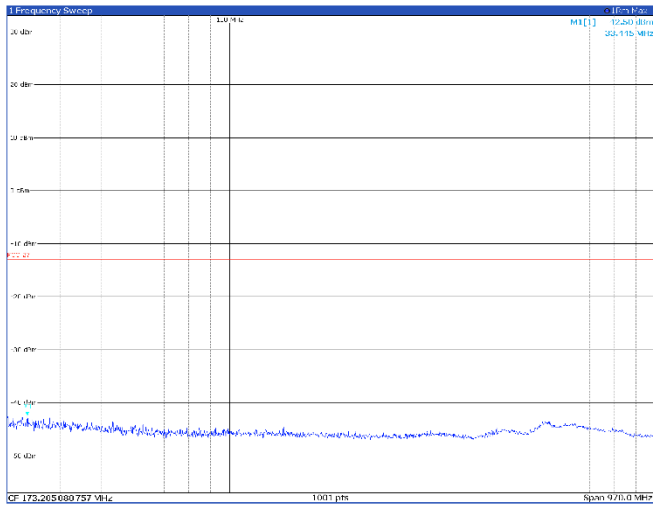
Limit exceeded by the carrier

TM3p3, 20 MHz, low channel



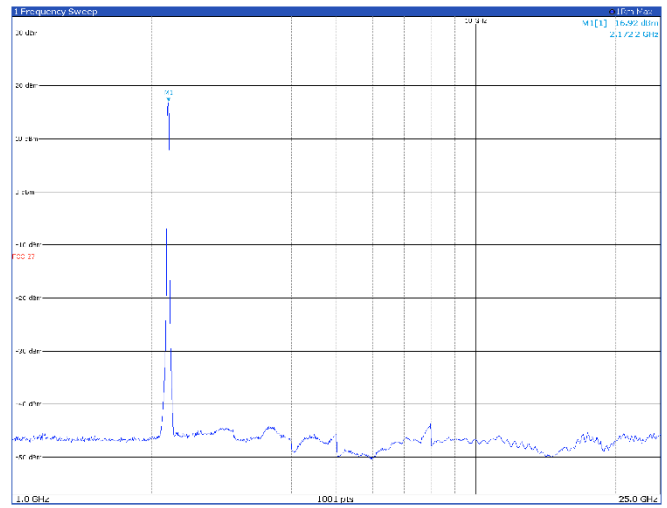
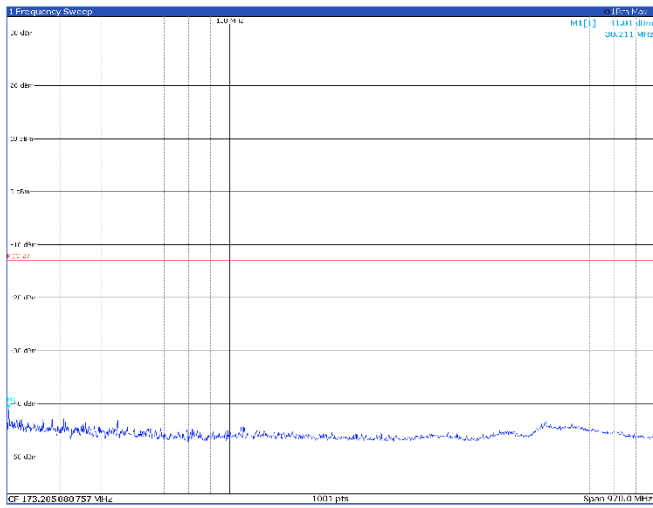
Limit exceeded by the carrier

TM3p3, 20 MHz, mid channel



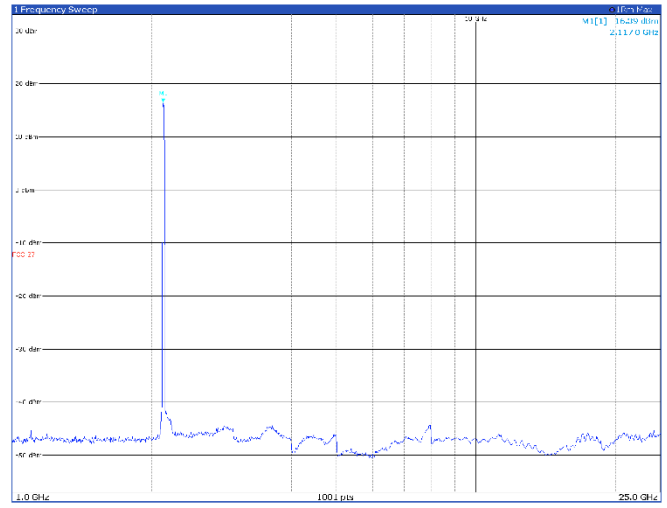
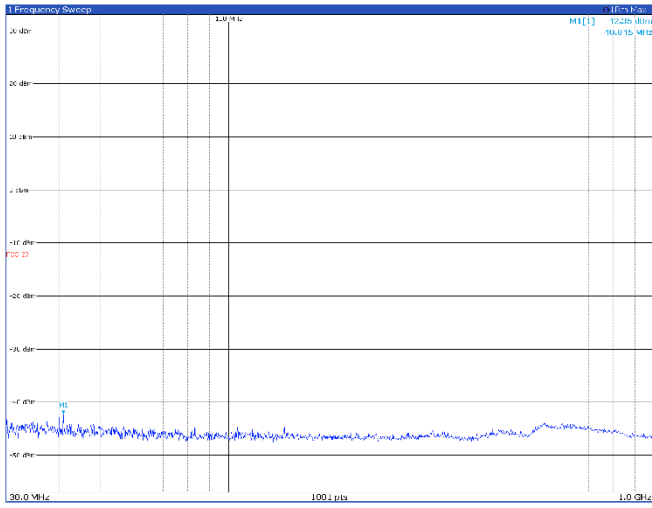
Limit exceeded by the carrier

TM3p3, 20 MHz, high channel



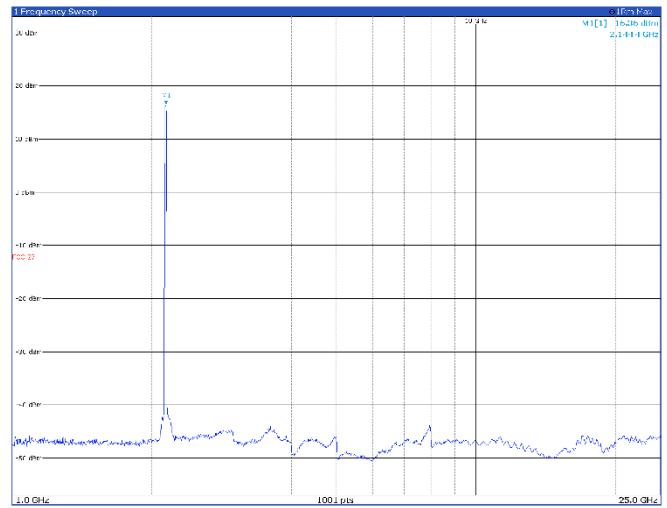
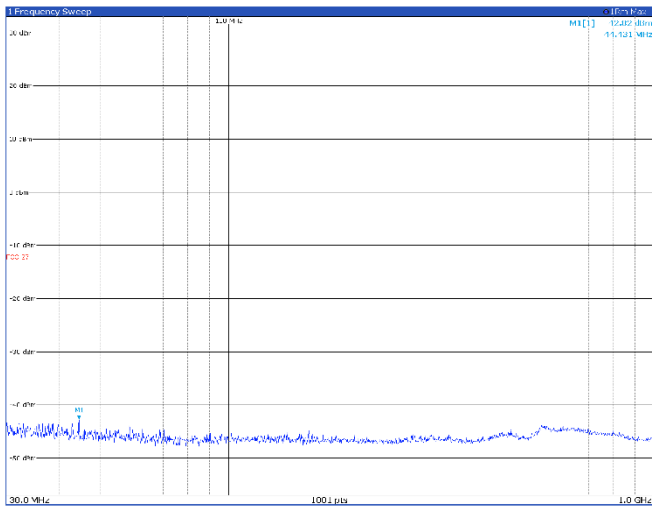
Limit exceeded by the carrier

TM1.1, 20 MHz, low channel



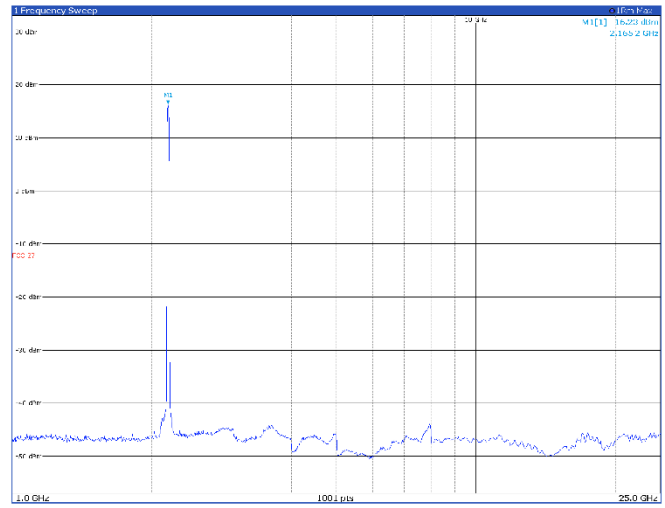
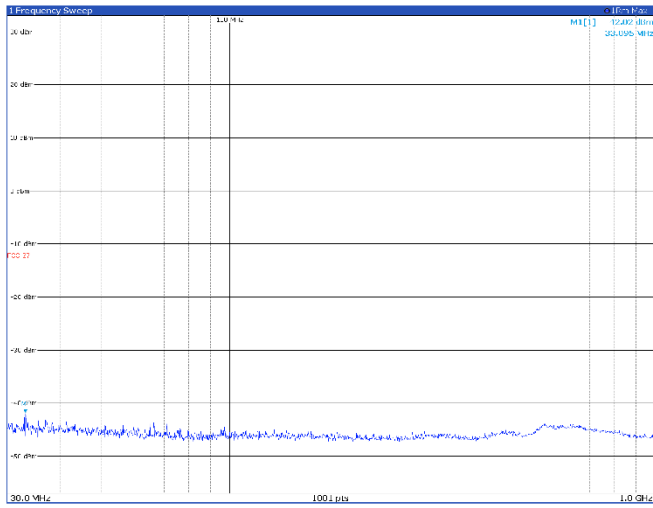
Limit exceeded by the carrier

TM1.1, 20 MHz, mid channel



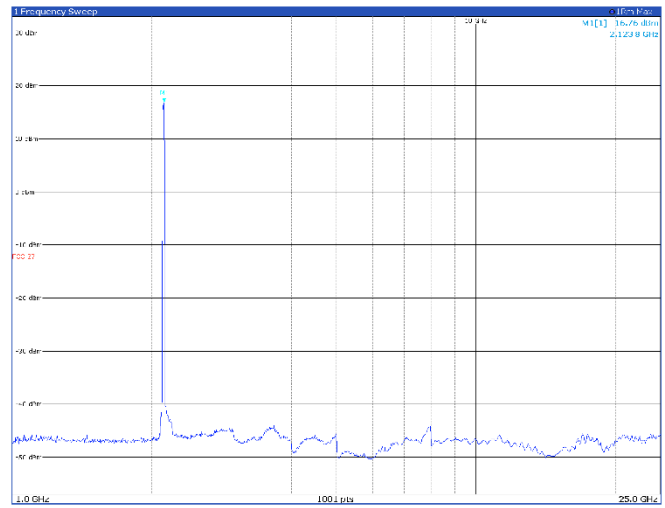
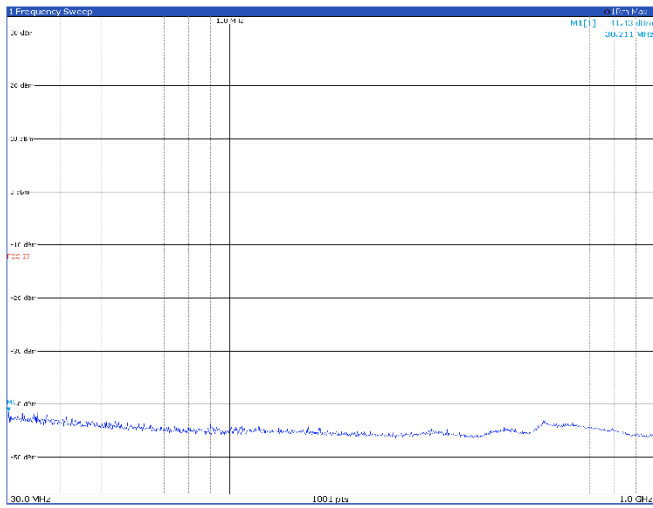
Limit exceeded by the carrier

TM1.1, 20 MHz, high channel



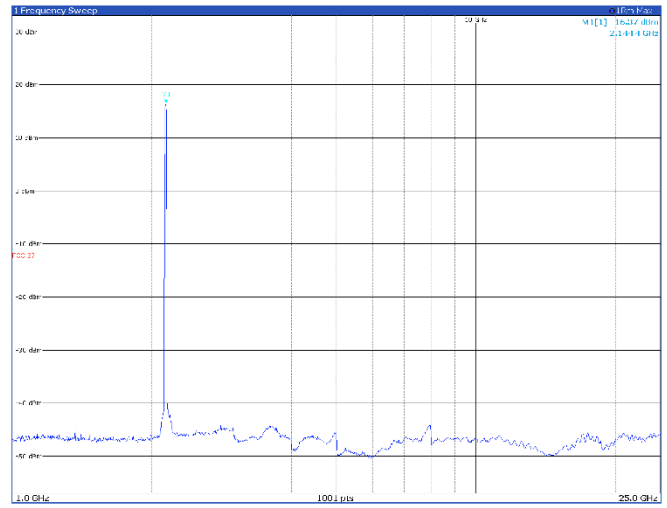
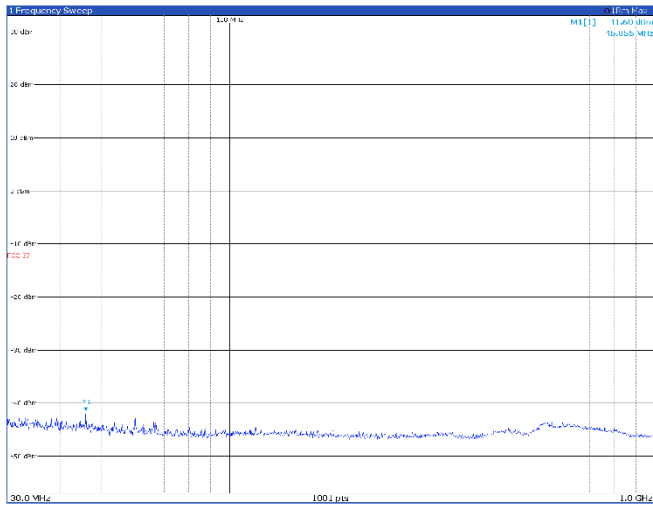
Limit exceeded by the carrier

TM3p1, 20 MHz, low channel



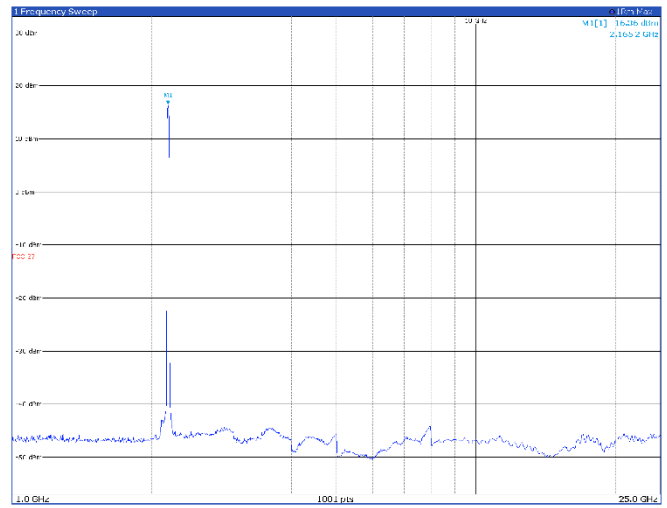
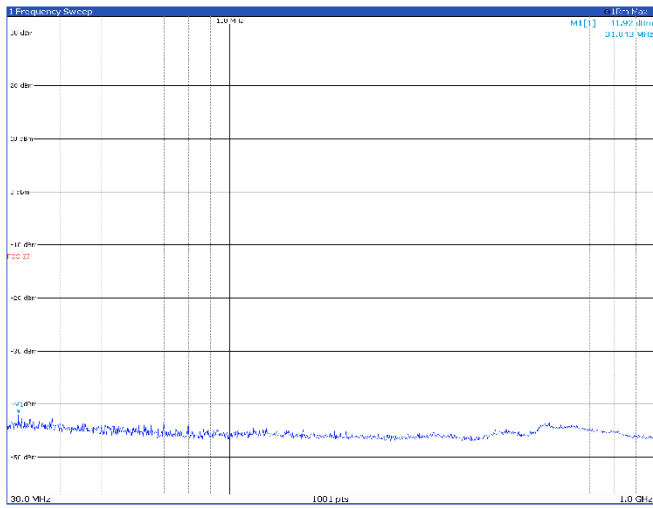
Limit exceeded by the carrier

TM3p1, 20 MHz, mid channel



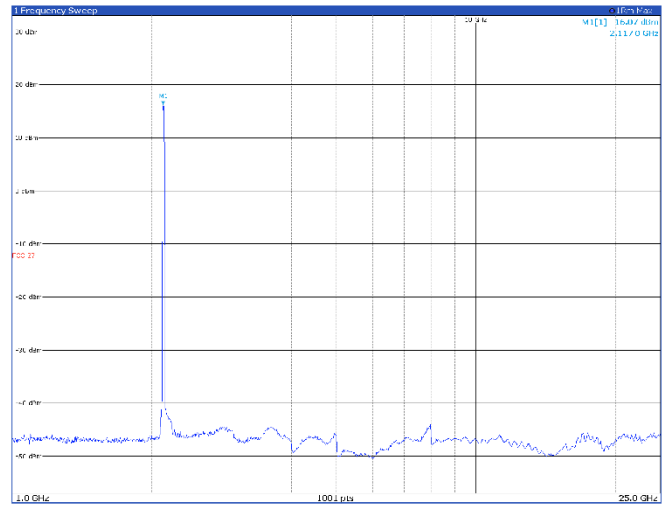
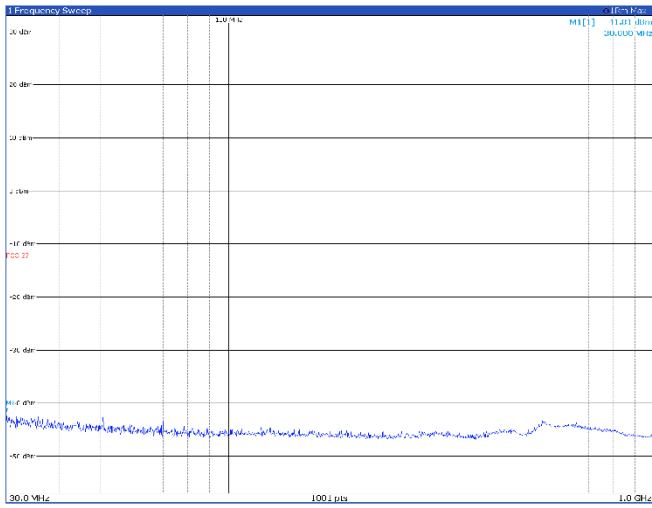
Limit exceeded by the carrier

TM3p1, 20 MHz, high channel



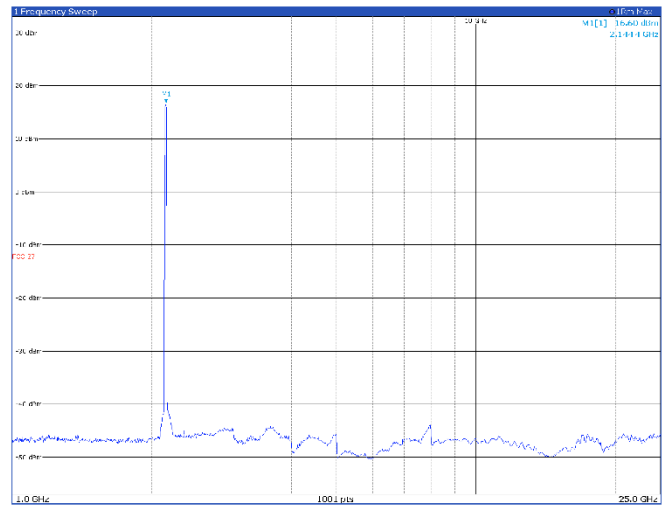
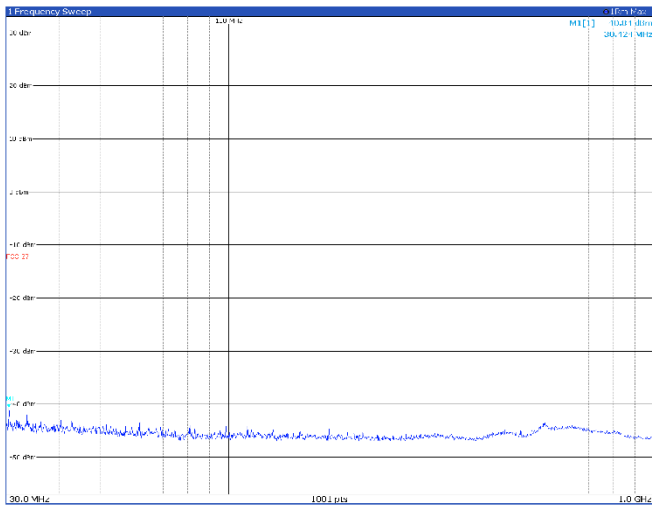
Limit exceeded by the carrier

TM3p1a, 20 MHz, low channel



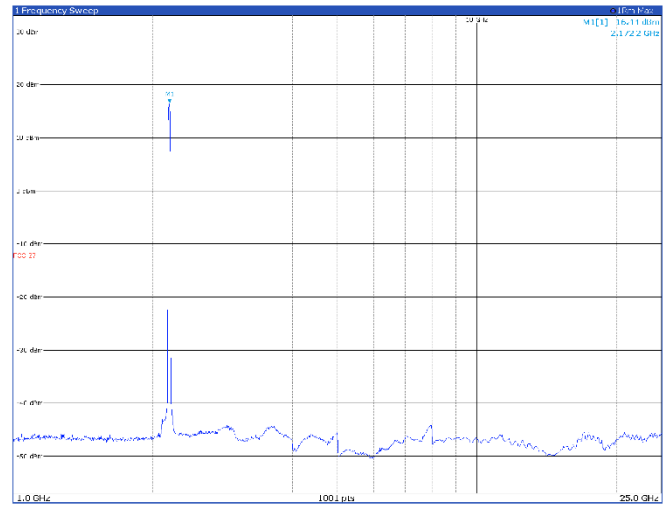
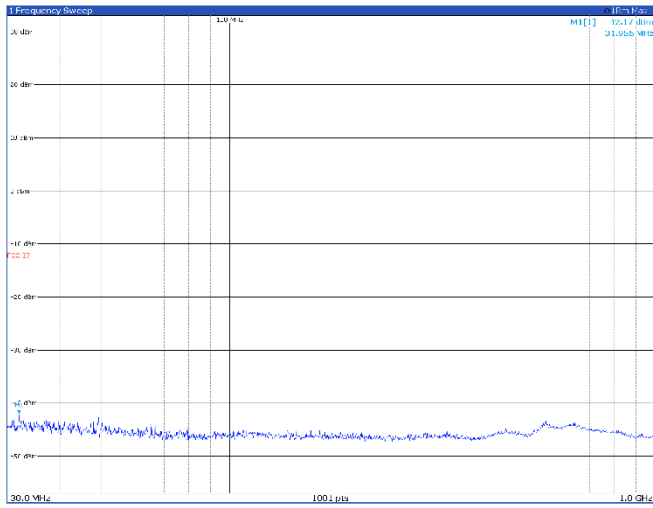
Limit exceeded by the carrier

TM3p1a, 20 MHz, mid channel



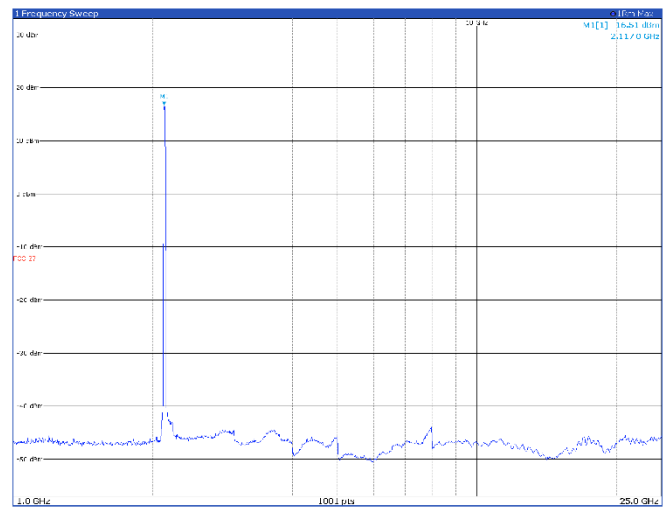
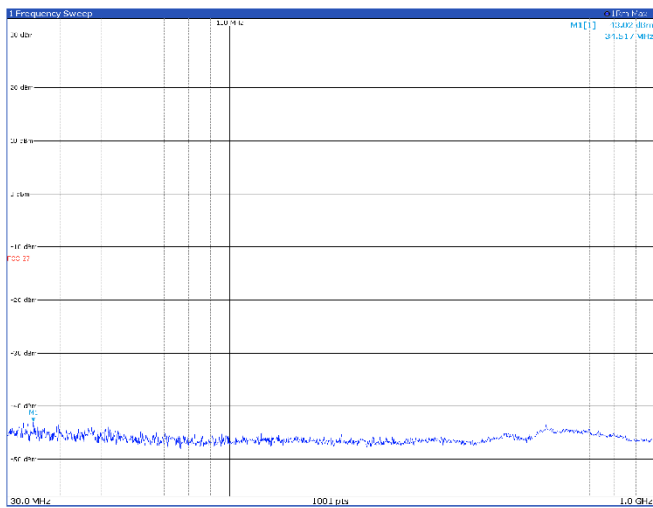
Limit exceeded by the carrier

TM3p1a, 20 MHz, high channel



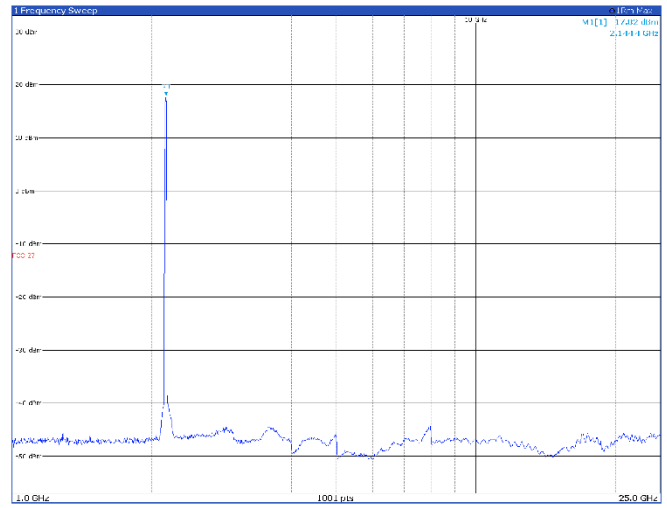
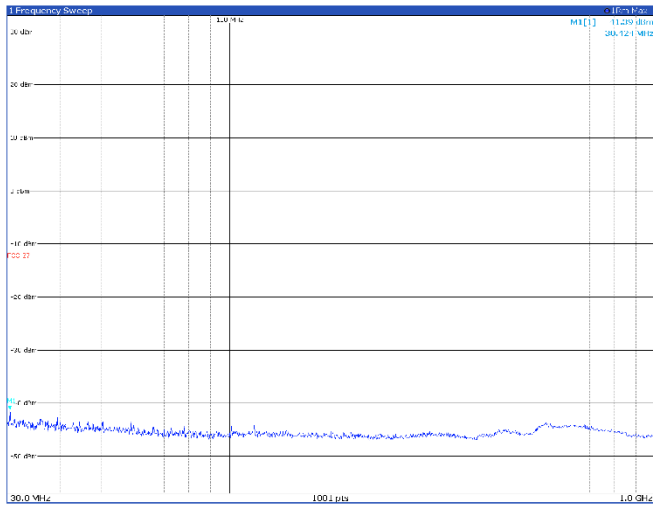
Limit exceeded by the carrier

TM3p3, 20 MHz, low channel



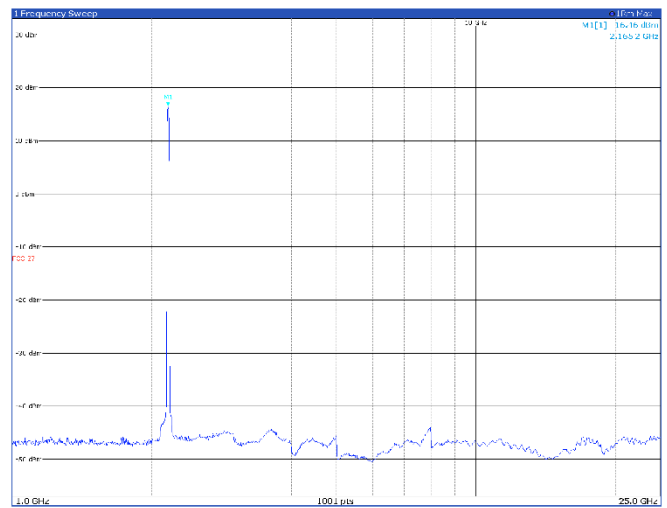
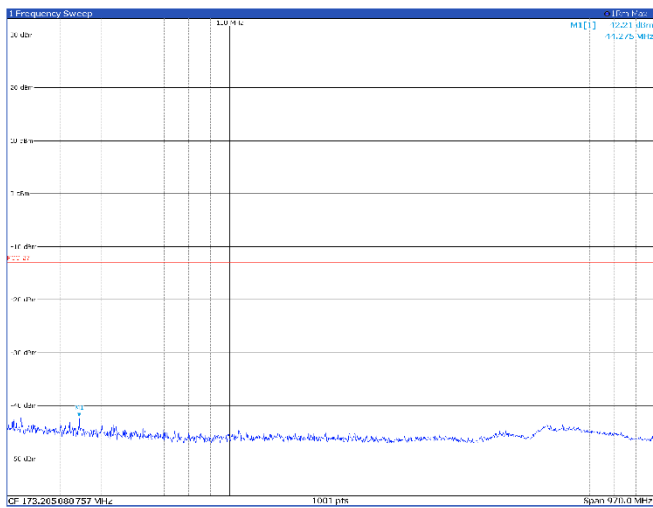
Limit exceeded by the carrier

TM3p3, 20 MHz, mid channel



Limit exceeded by the carrier

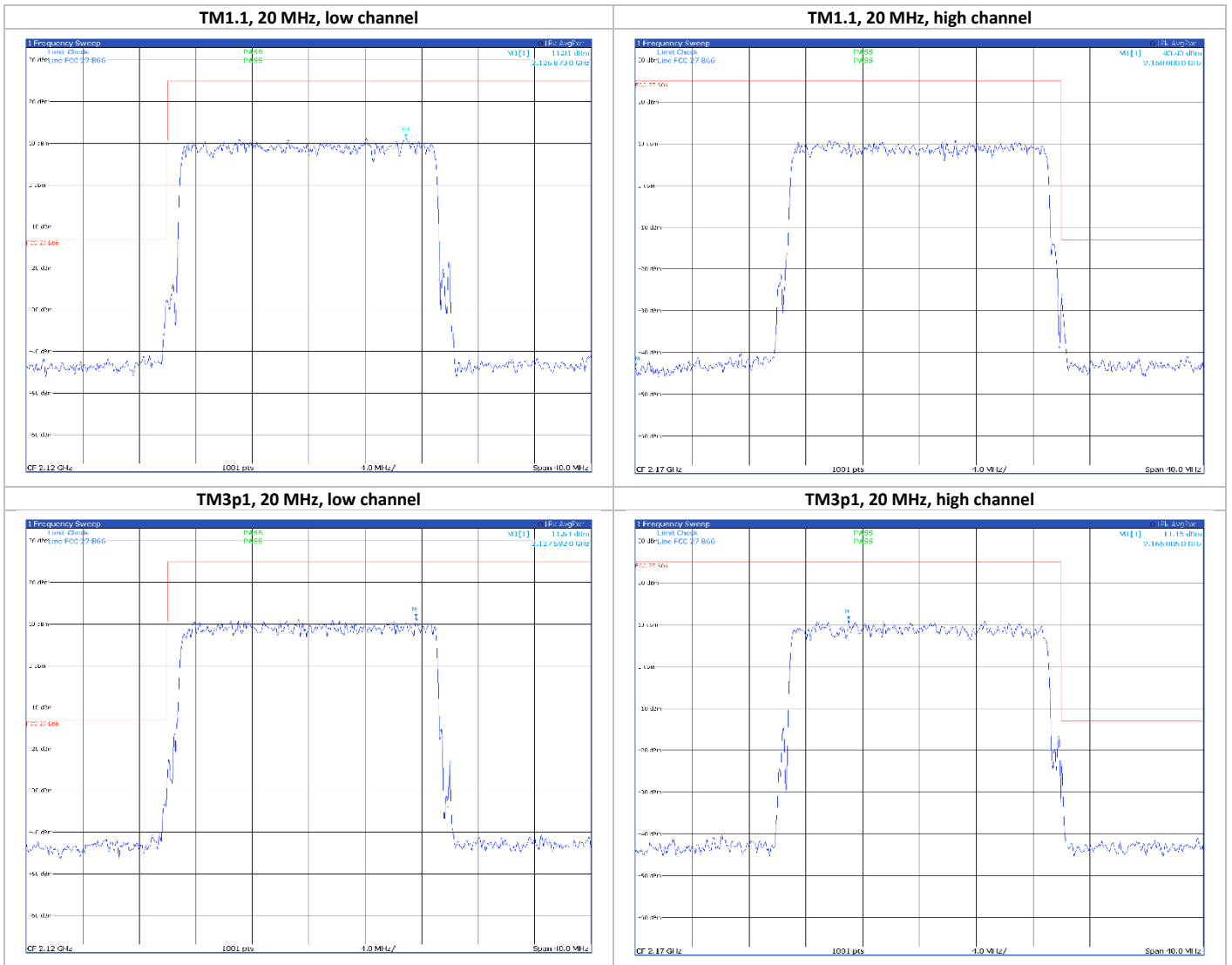
TM3p3, 20 MHz, high channel



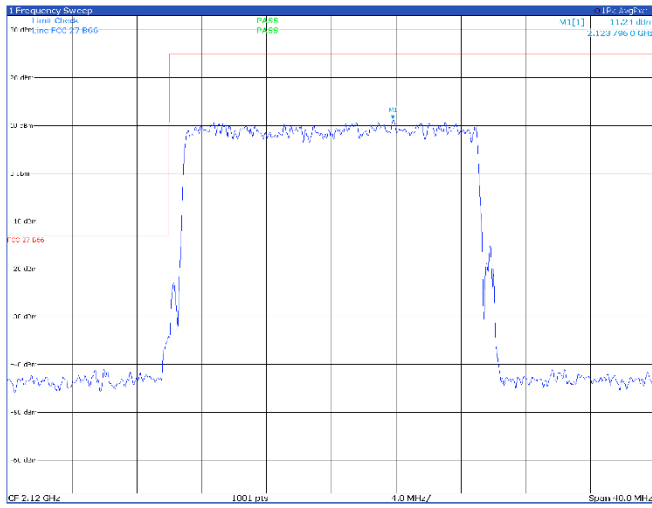
Limit exceeded by the carrier

Band B66 – band edge Antenna port 1

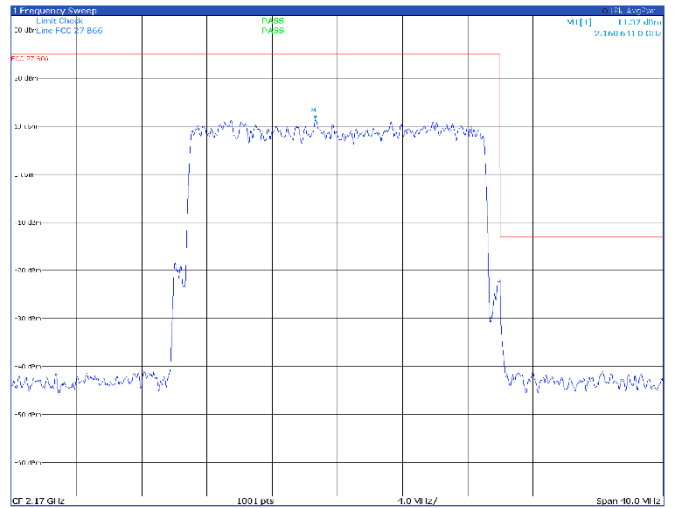
20 MHz



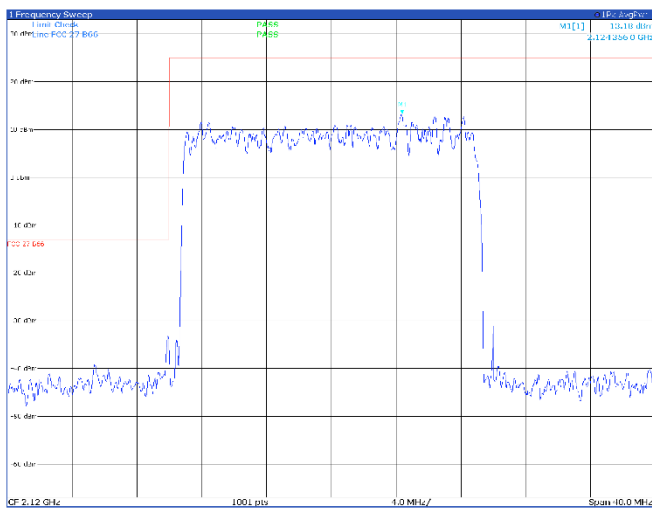
TM3p1a, 20 MHz, low channel



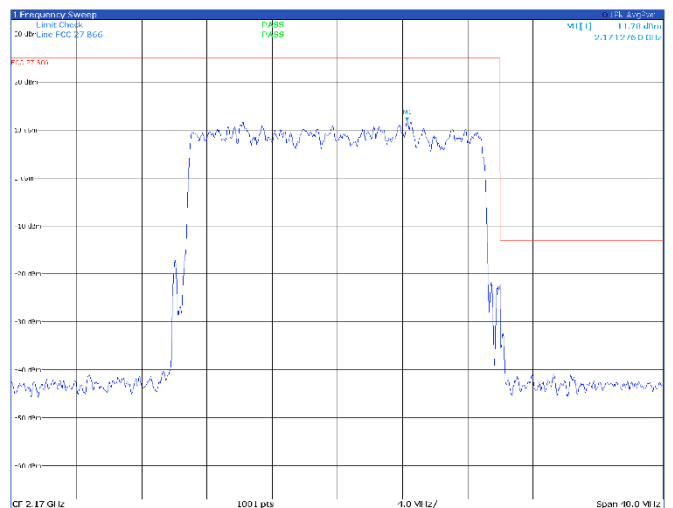
TM3p1a, 20 MHz, high channel



TM3p3, 20 MHz, low channel

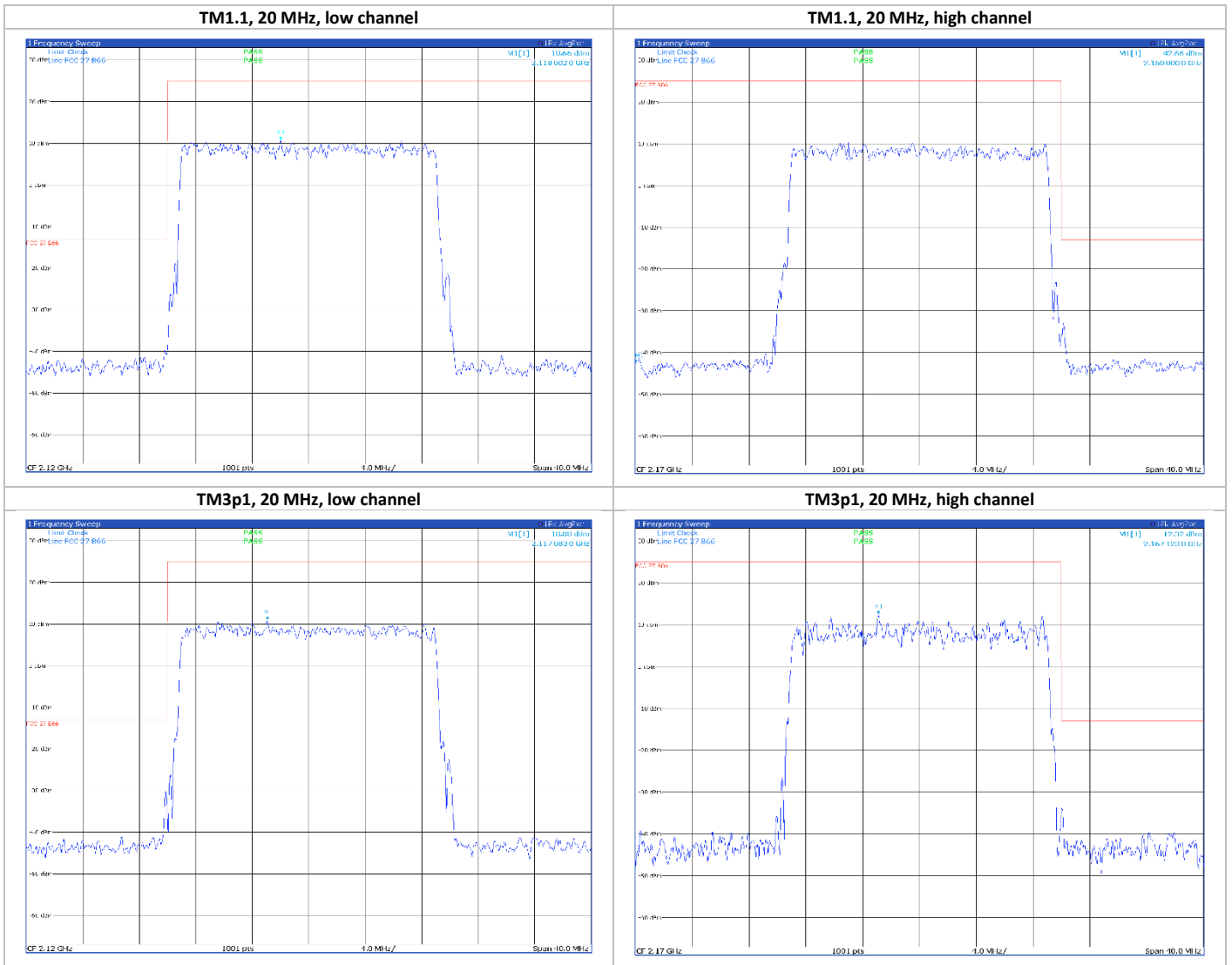


TM3p3, 20 MHz, high channel

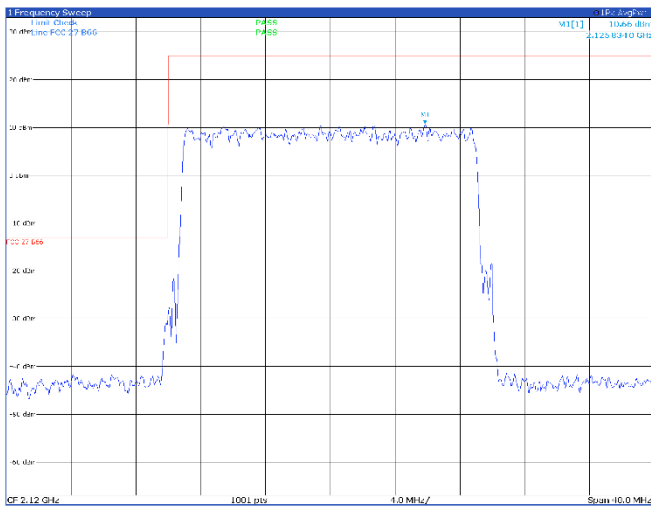


Band B66 – band edge Antenna port 2

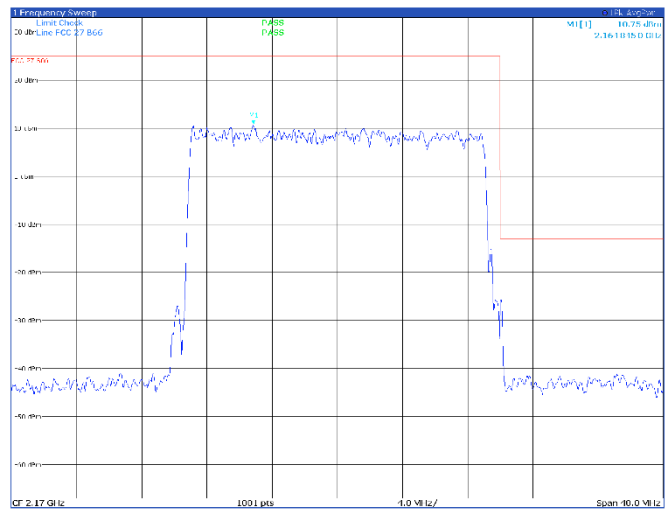
20 MHz



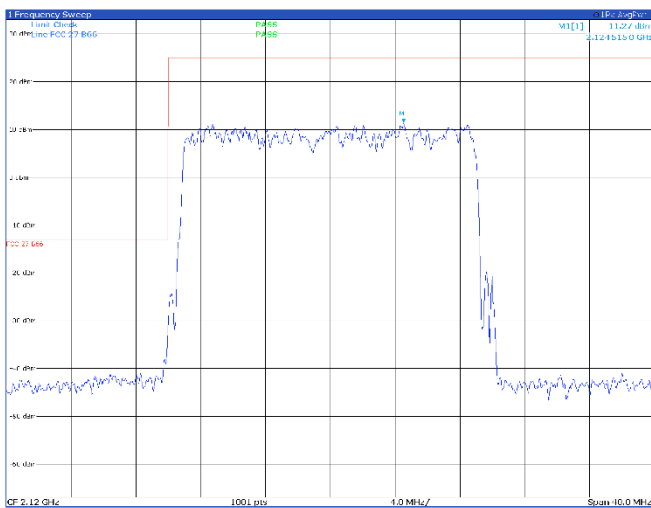
TM3p1a, 20 MHz, low channel



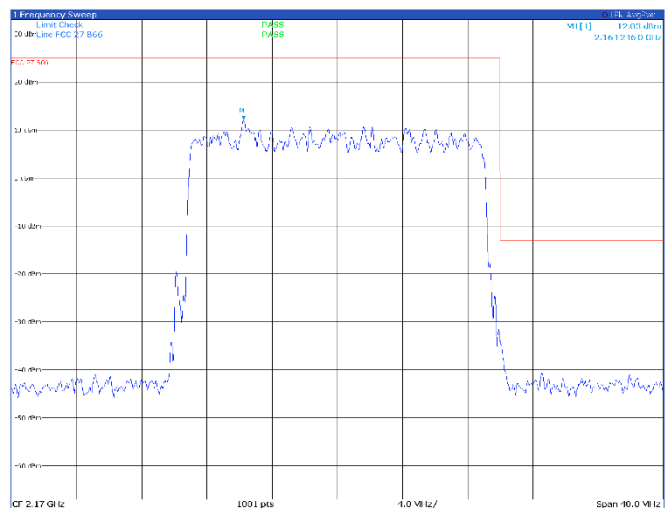
TM3p1a, 20 MHz, high channel



TM3p3, 20 MHz, low channel

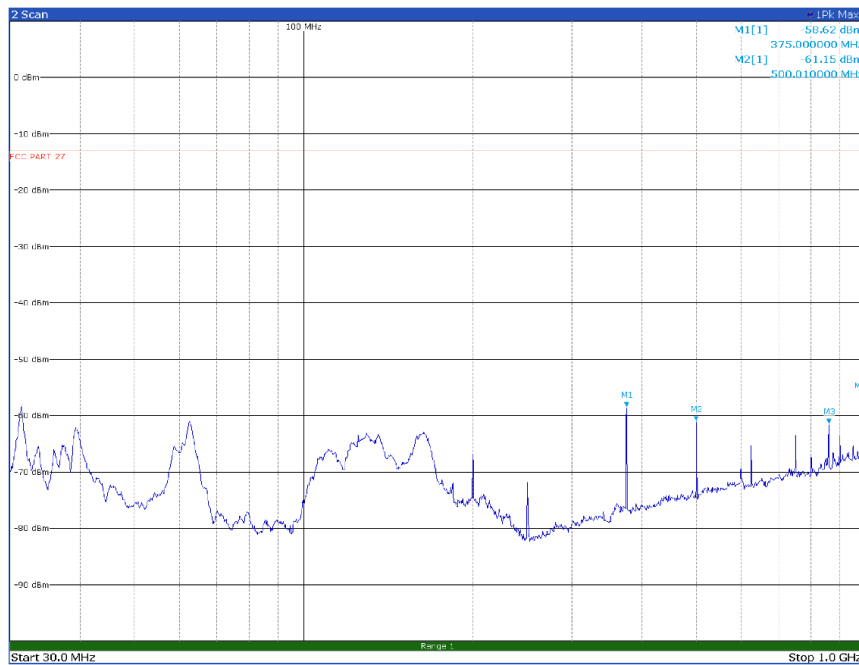


TM3p3, 20 MHz, high channel



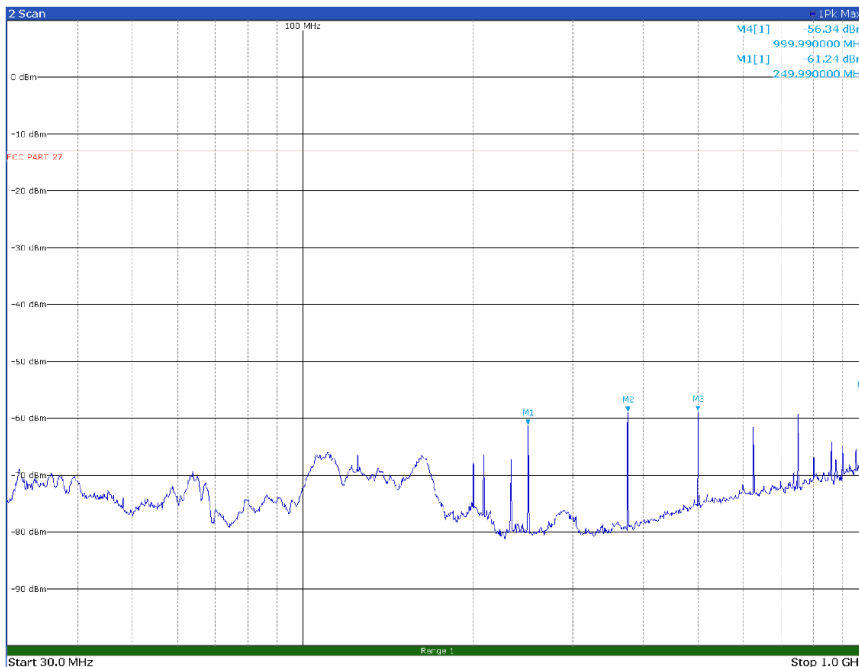
Band B66 – radiated spurious emissions

5 MHz



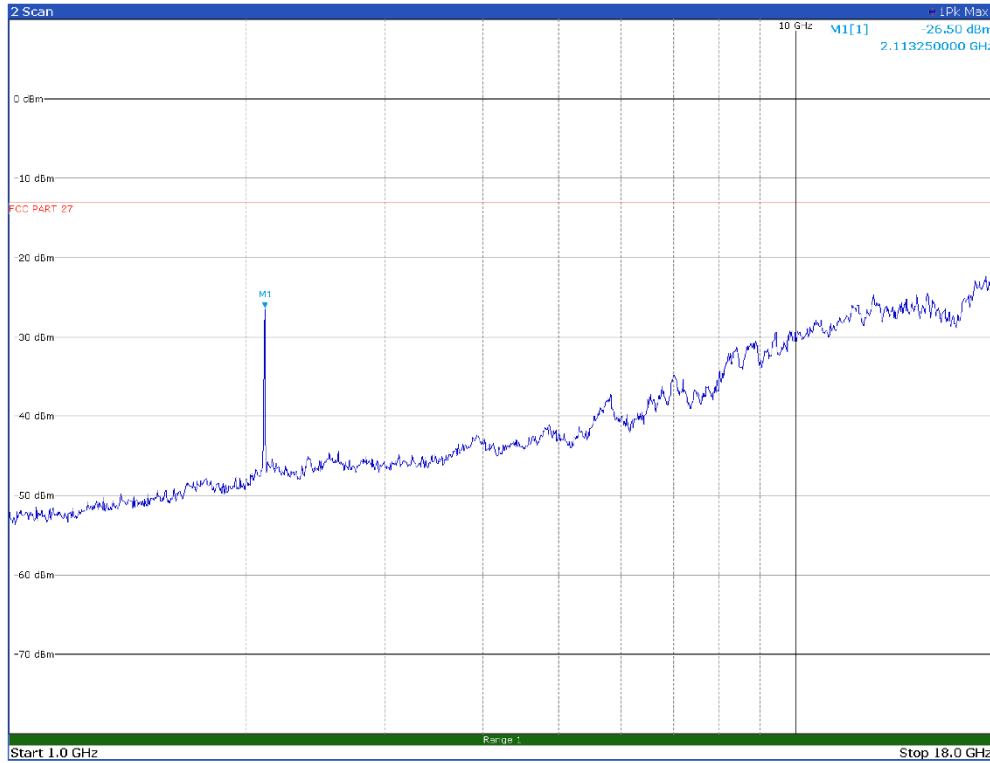
Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	375.0 MHz	-58.62 dBm
Scan	M2		1	500.01 MHz	-61.15 dBm
Scan	M3		1	860.16 MHz	-61.53 dBm
Scan	M4		1	999.99 MHz	-56.89 dBm

Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, low channel, TM3p1 modulation

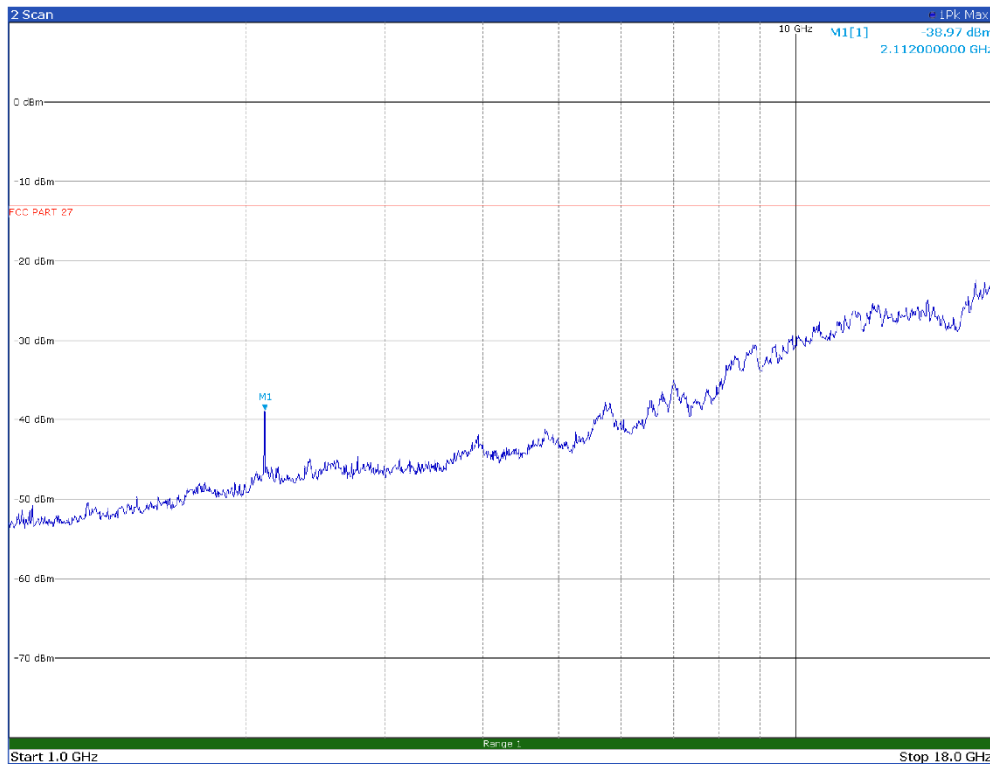


Wind	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	249.99 MHz	-61.24 dBm
Scan	M2		1	375.0 MHz	-58.96 dBm
Scan	M3		1	500.01 MHz	-58.88 dBm
Scan	M4		1	999.99 MHz	-56.34 dBm

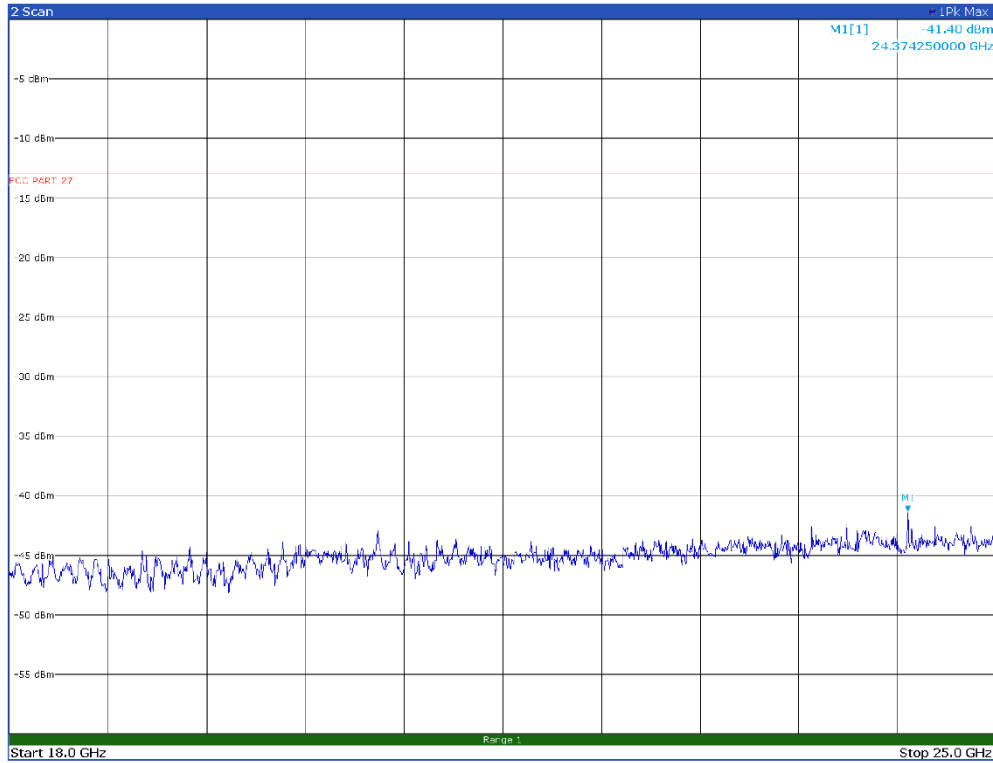
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, low channel, TM3p1 modulation



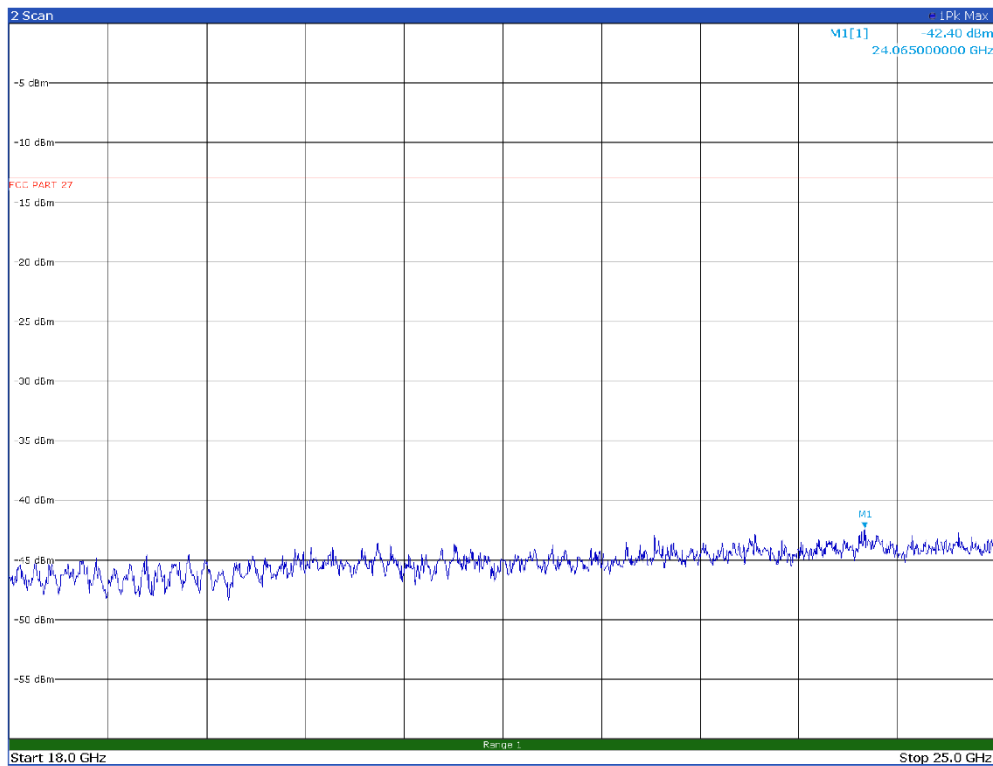
Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, low channel, TM3p1 modulation



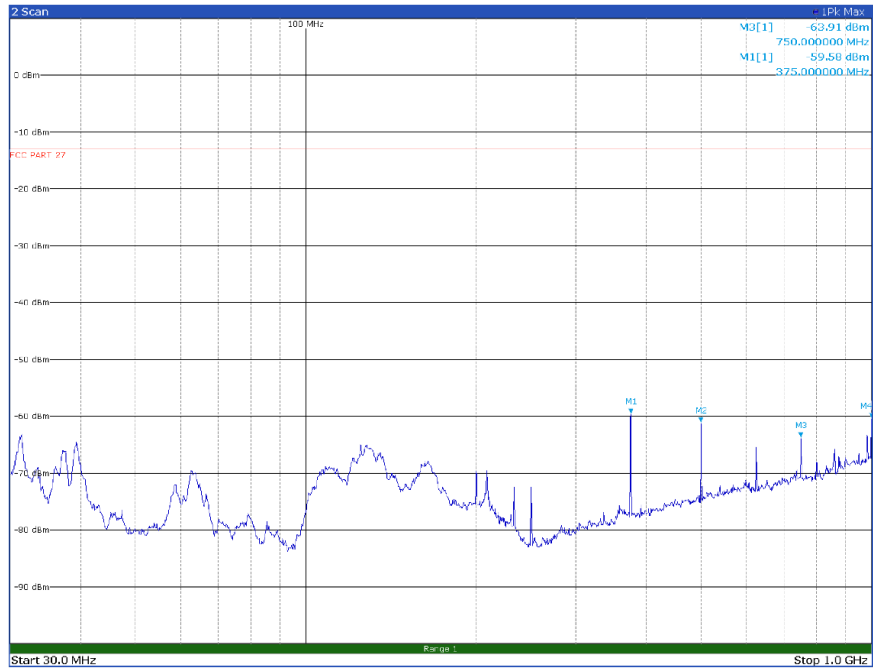
Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, low channel, TM3p1 modulation



Radiated emissions spectral plot (18 GHz - 25 GHz), vertical polarization, low channel, TM3p1 modulation

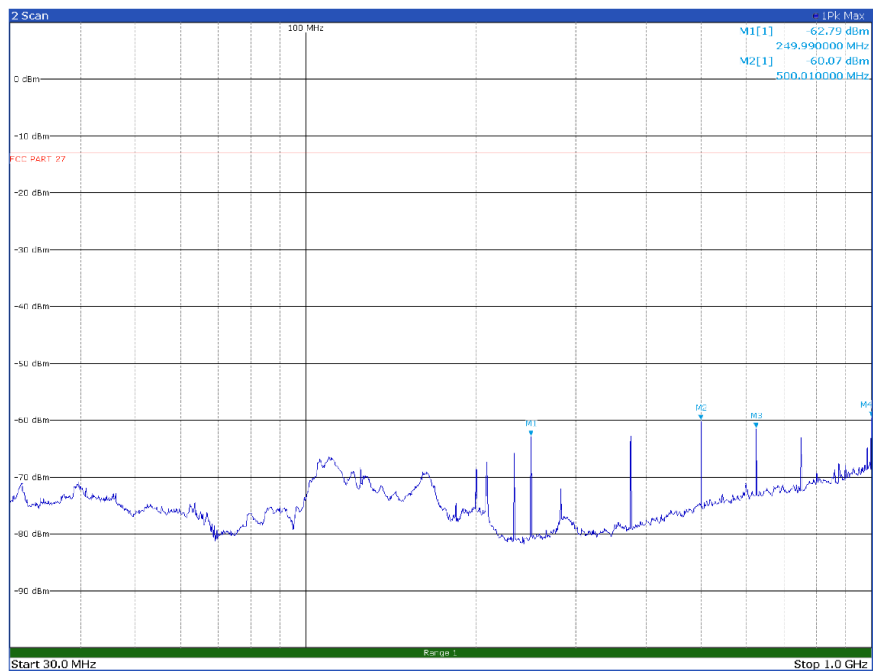


Radiated emissions spectral plot (18 GHz - 25 GHz), horizontal polarization, low channel, TM3p1 modulation



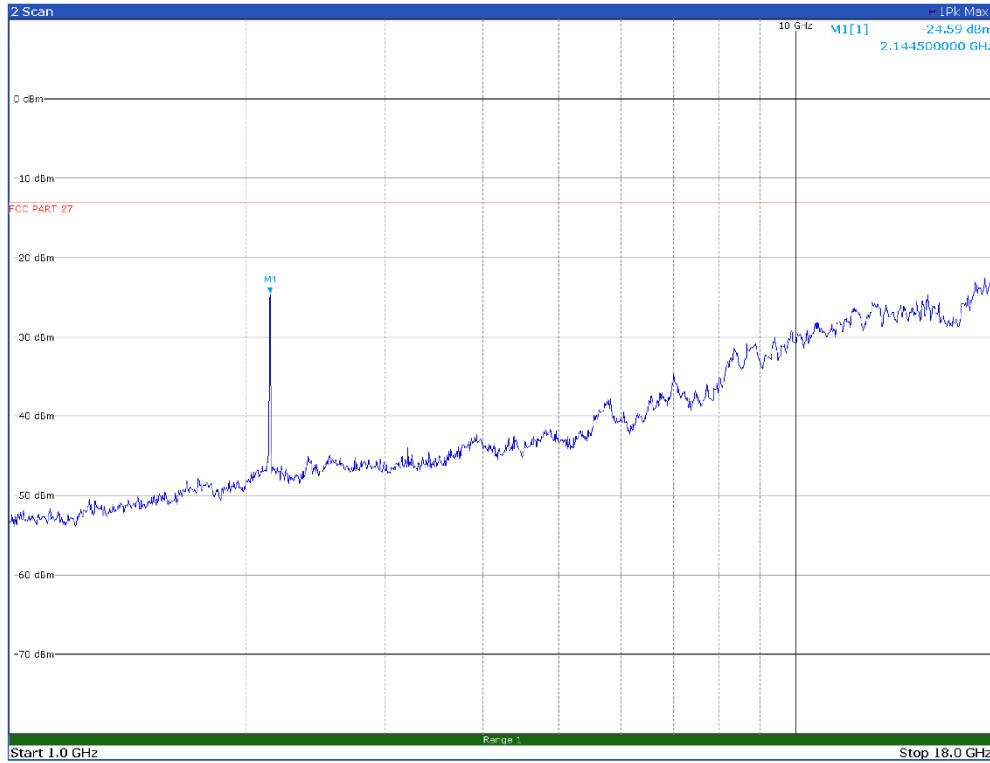
Wnd	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	375.0 MHz	-59.58 dBm
Scan	M2		1	500.01 MHz	-61.28 dBm
Scan	M3		1	750.0 MHz	-53.91 dBm
Scan	M4		1	999.99 MHz	-60.39 dBm

Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, mid channel, TM3p1 modulation

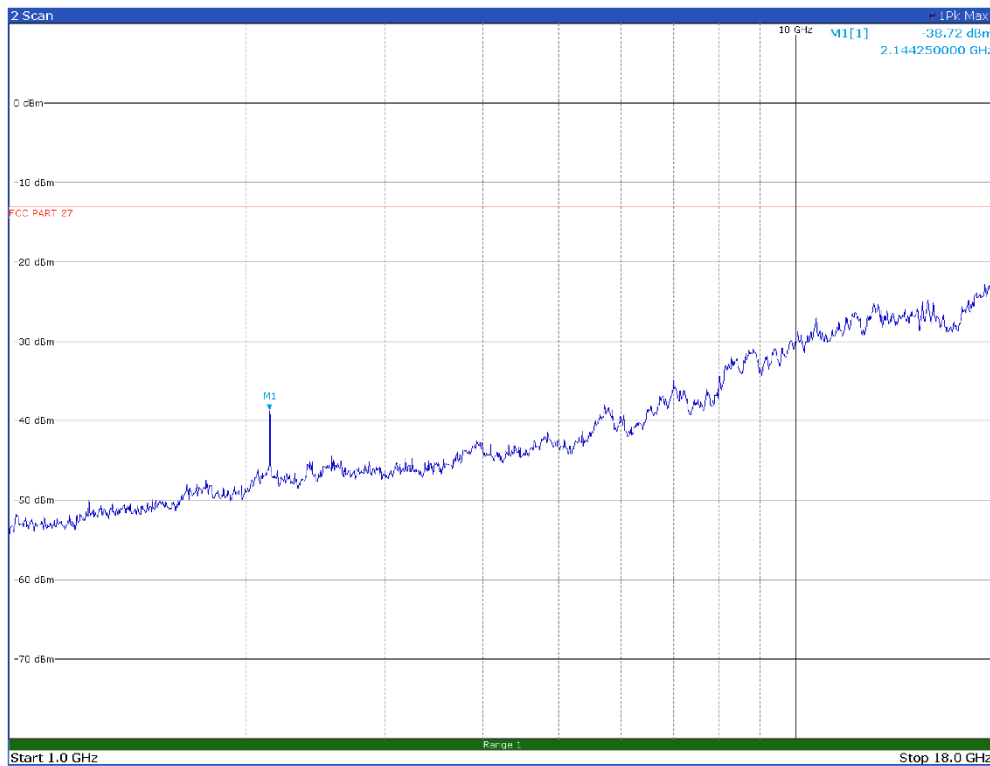


Wnd	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	249.99 MHz	-62.79 dBm
Scan	M2		1	500.01 MHz	-60.07 dBm
Scan	M3		1	624.99 MHz	-61.47 dBm
Scan	M4		1	999.99 MHz	-59.57 dBm

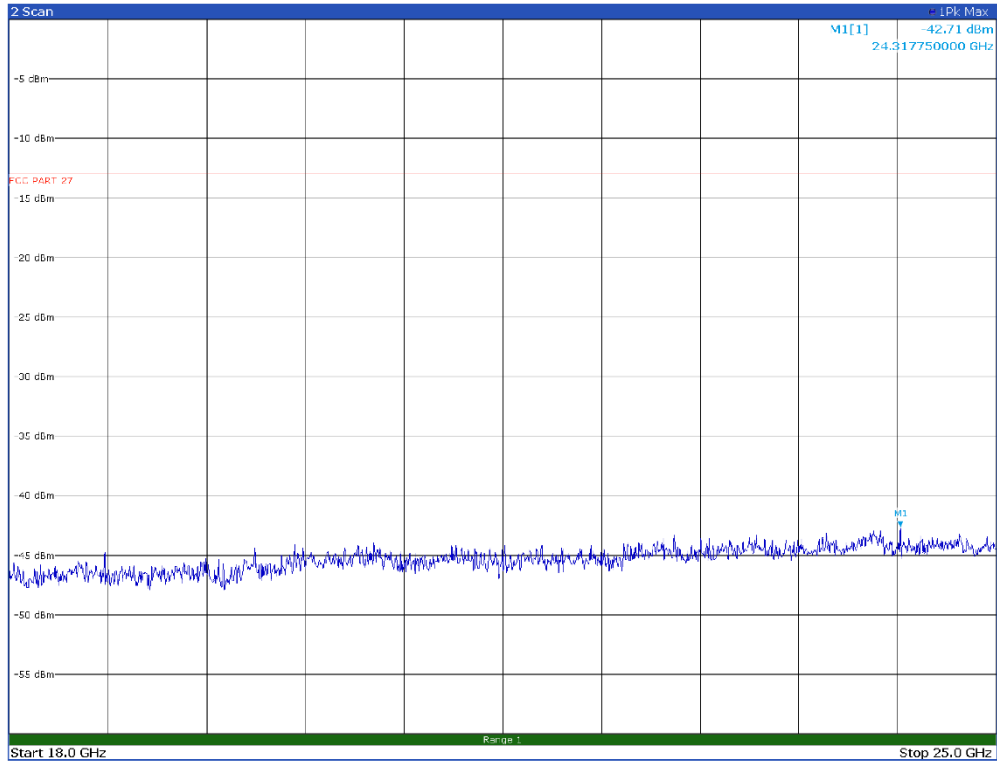
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, mid channel, TM3p1 modulation



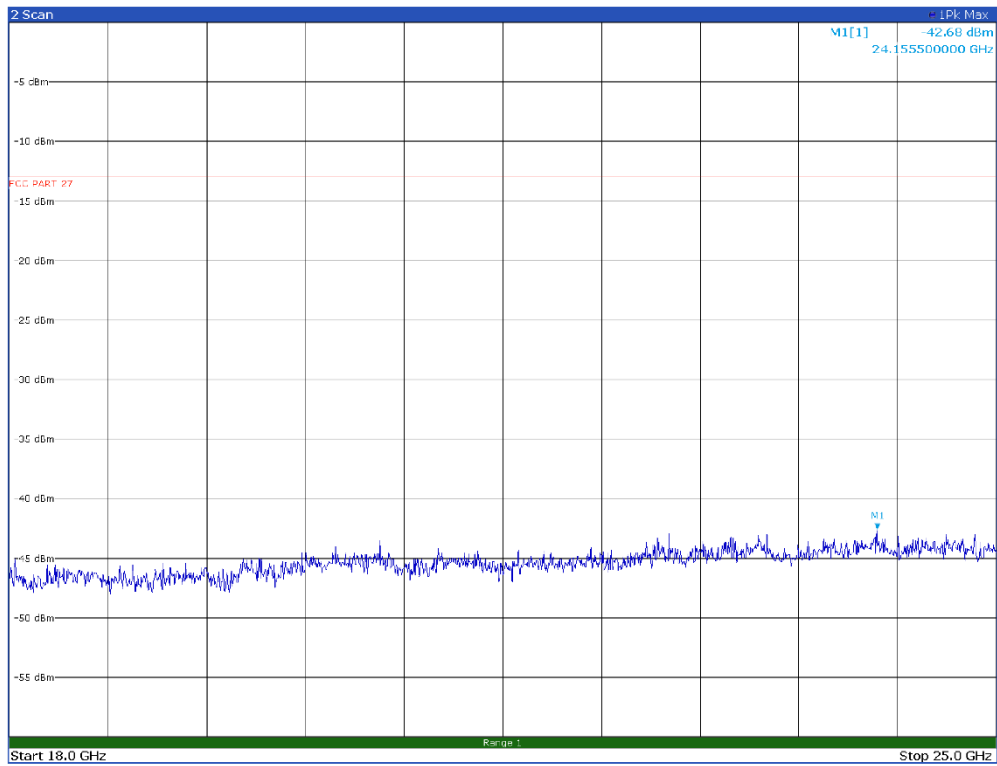
Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, mid channel, TM3p1 modulation



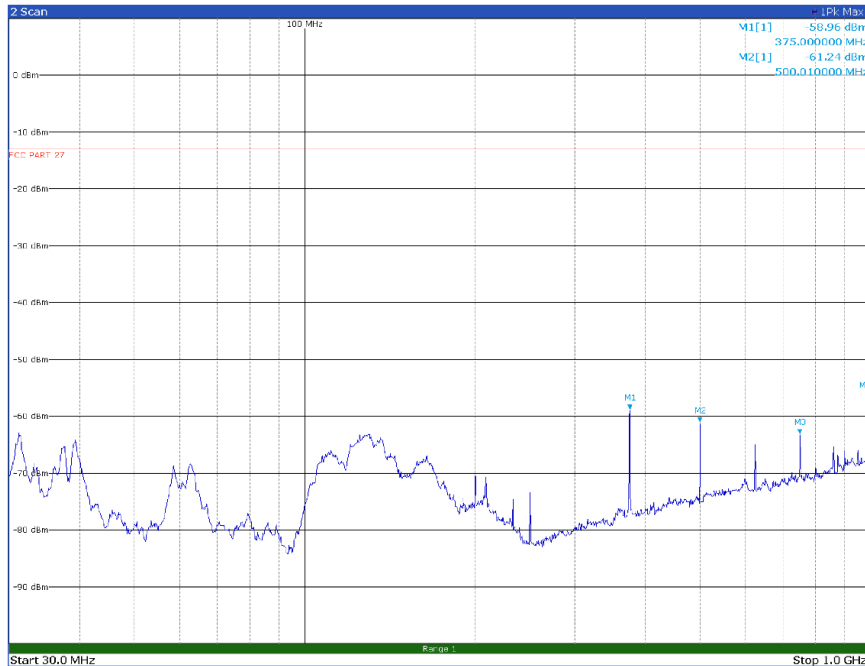
Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, mid channel, TM3p1 modulation



Radiated emissions spectral plot (18 GHz - 25 GHz), vertical polarization, mid channel, TM3p1 modulation

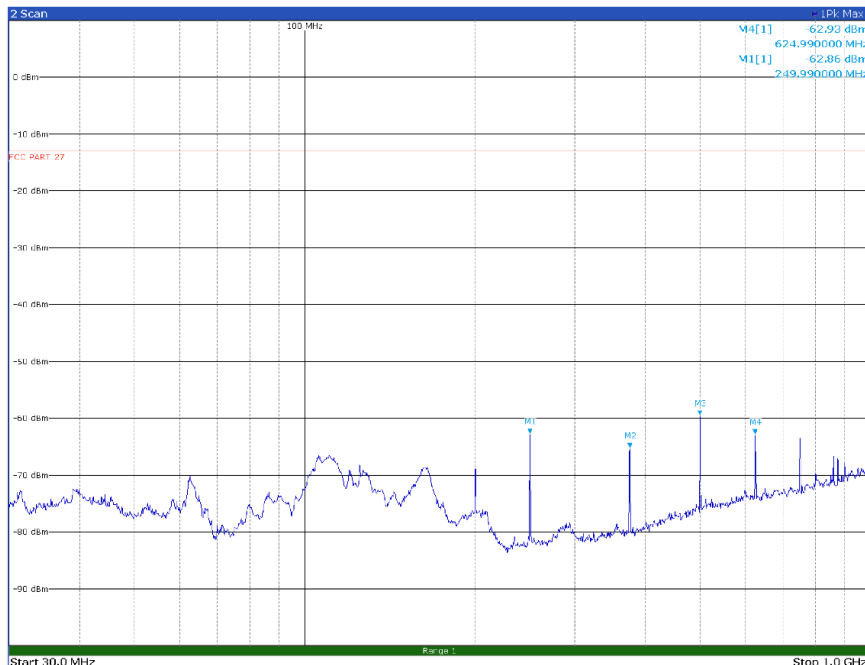


Radiated emissions spectral plot (18 GHz - 25 GHz), horizontal polarization, mid channel, TM3p1 modulation



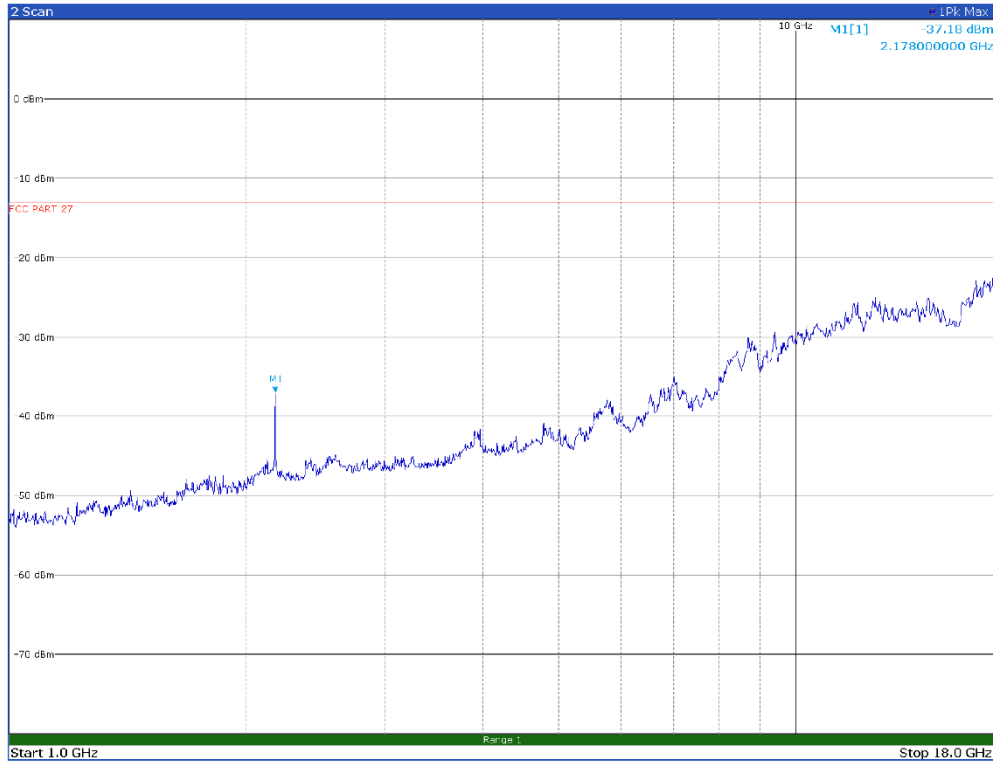
Wnd	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	375.0 MHz	-59.96 dBm
Scan	M2		1	500.01 MHz	-61.24 dBm
Scan	M3		1	750.0 MHz	-63.26 dBm
Scan	M4		1	999.99 MHz	-56.73 dBm

Radiated emissions spectral plot (30 MHz - 1GHz), vertical polarization, high channel, TM3p1 modulation

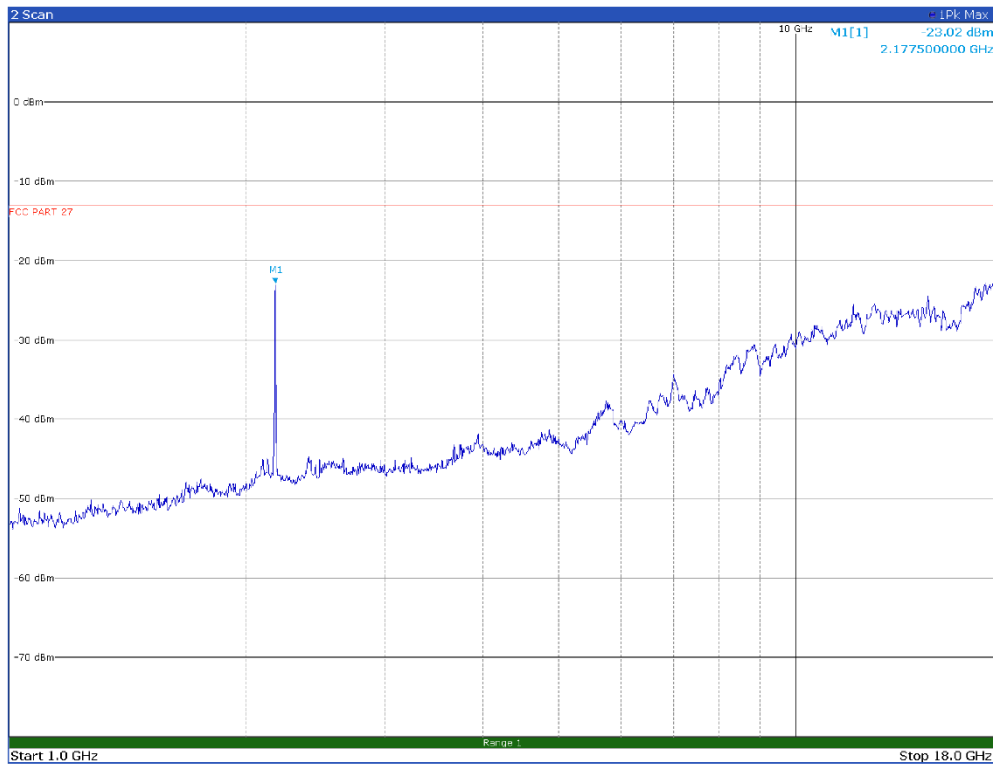


Wnd	Type	Ref	Trc	X-value	Y-value
Scan	M1		1	249.99 MHz	-62.86 dBm
Scan	M2		1	375.0 MHz	-65.35 dBm
Scan	M3		1	500.01 MHz	-59.63 dBm
Scan	M4		1	624.99 MHz	-62.93 dBm

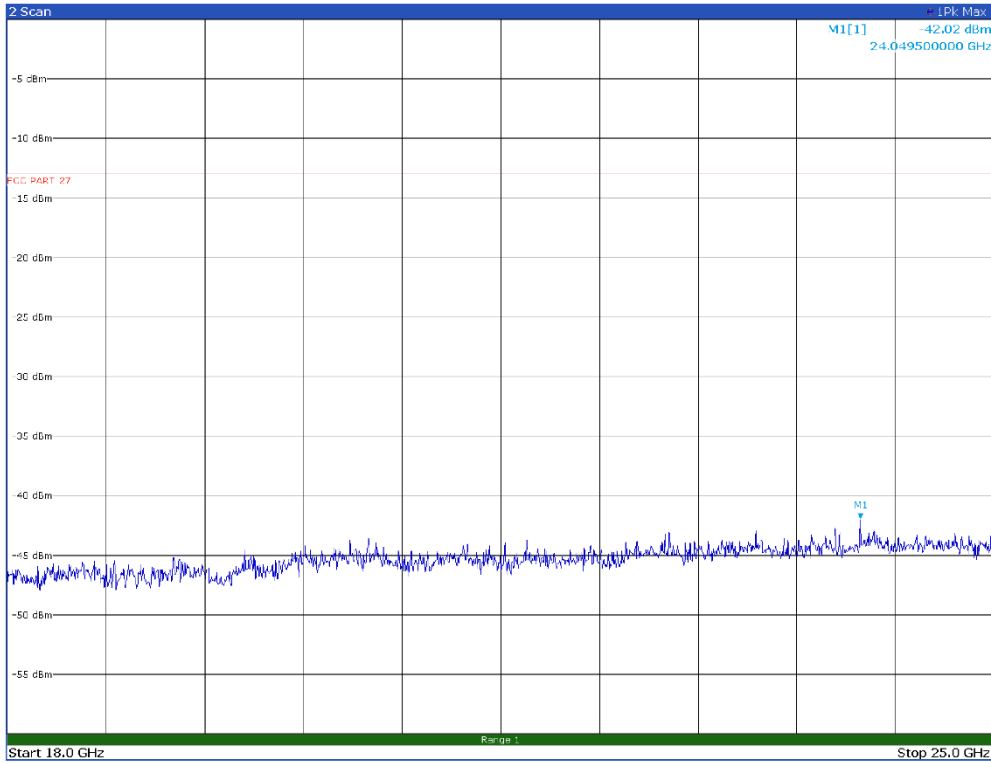
Radiated emissions spectral plot (30 MHz - 1GHz), horizontal polarization, high channel, TM3p1 modulation



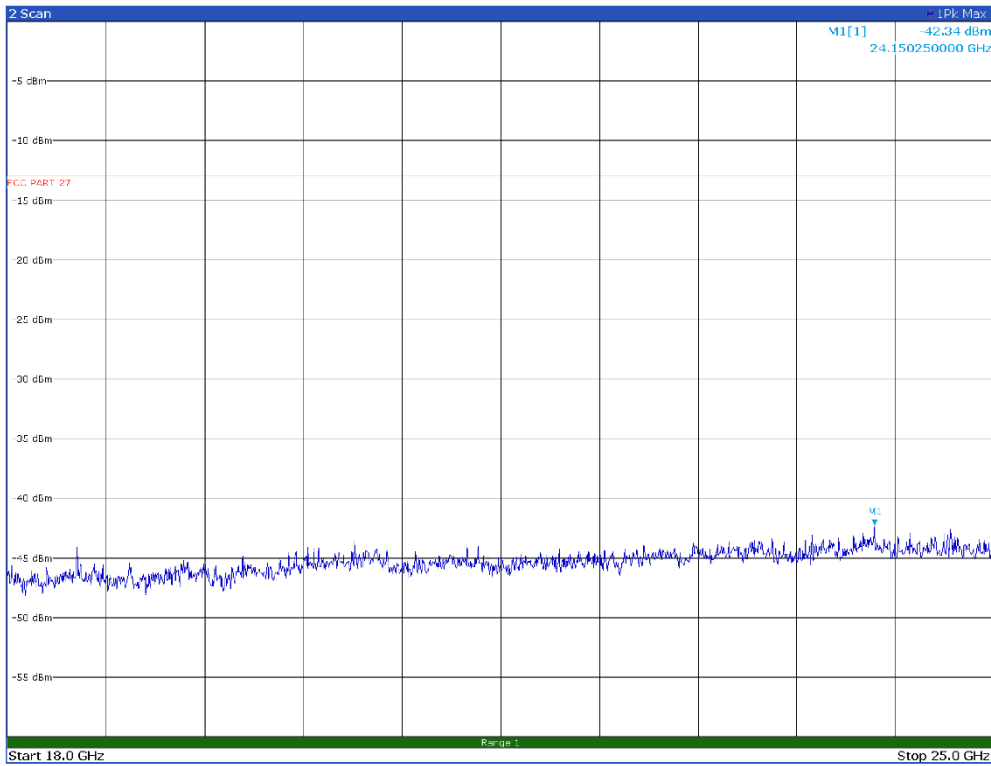
Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, high channel, TM3p1 modulation



Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, high channel, TM3p1 modulation



Radiated emissions spectral plot (18 GHz – 25 GHz), horizontal polarization, high channel, TM3p1 modulation



Radiated emissions spectral plot (18 GHz – 25 GHz), vertical polarization, high channel, TM3p1 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	September 3, 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 B66:

Table Errore. Per applicare Heading 2 al testo da visualizzare in questo punto, utilizzare la scheda Home.-1: Frequency stability results, band B66

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm
+50 °C, Nominal	2145002338.0	2288.0	1.07
+40 °C, Nominal	2145002975.0	2925.0	1.36
+30 °C, Nominal	2144999900.0	-150.0	-0.07
+20 °C, +15%	2145001125.0	1075.0	0.50
+20 °C, Nominal	2145000050.0	Reference	Reference
+20 °C, -15%	2144999897.0	-153.0	-0.07
+10 °C, Nominal	2145002828.0	2778.0	1.30
0 °C, Nominal	2144997025.0	-3025.0	-1.41
-10 °C, Nominal	2145003136.0	3086.0	1.44
-20 °C, Nominal	2145002482.0	2432.0	1.13
-30 °C, Nominal	2145001139.0	1089.0	0.51

Section 9. Block diagrams of test setups

9.1 Conducted emissions set-up

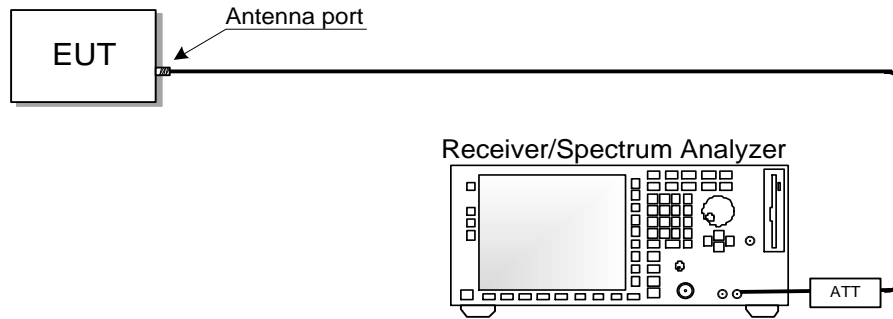


Figure 9.1-1: Conducted setup

9.2 Radiated emissions set-up

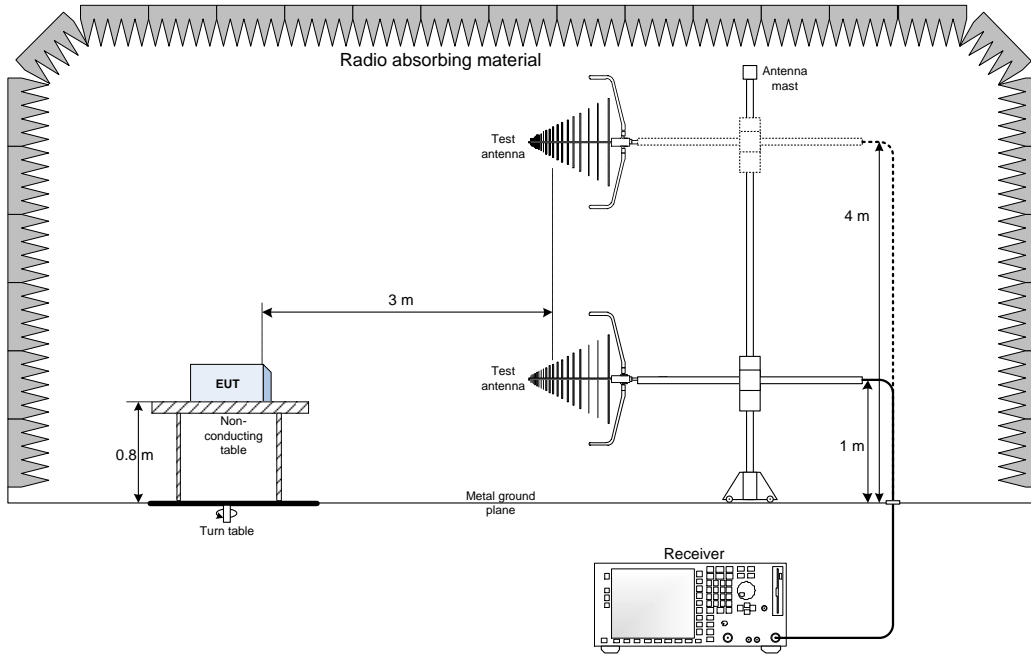


Figure 9.2-1: Below 1 GHz setup

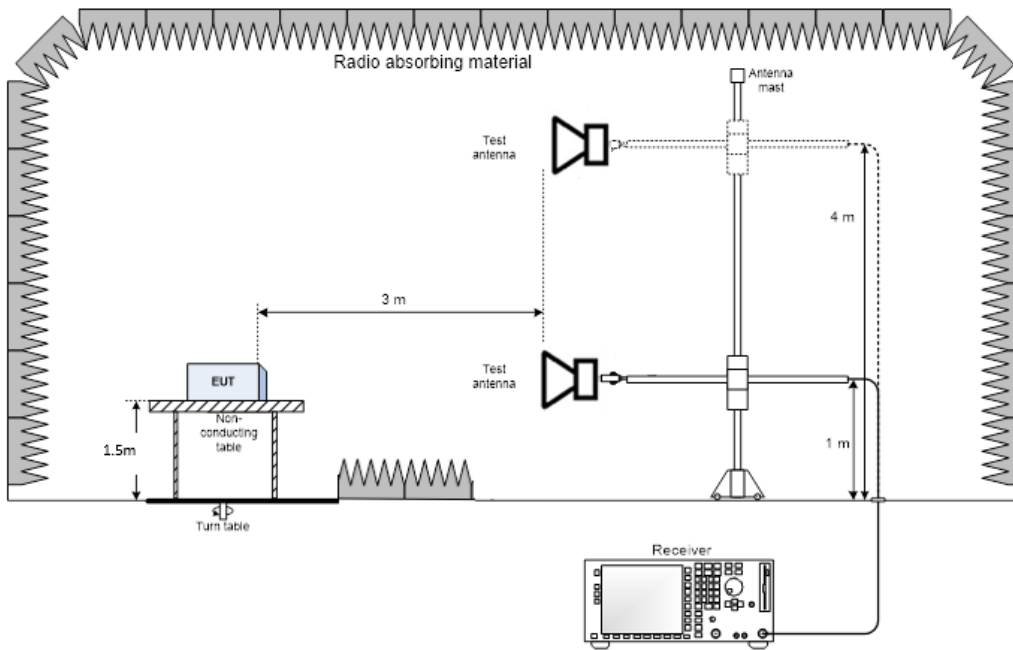


Figure 9.2-2: Above 1GHz setup

End of Report