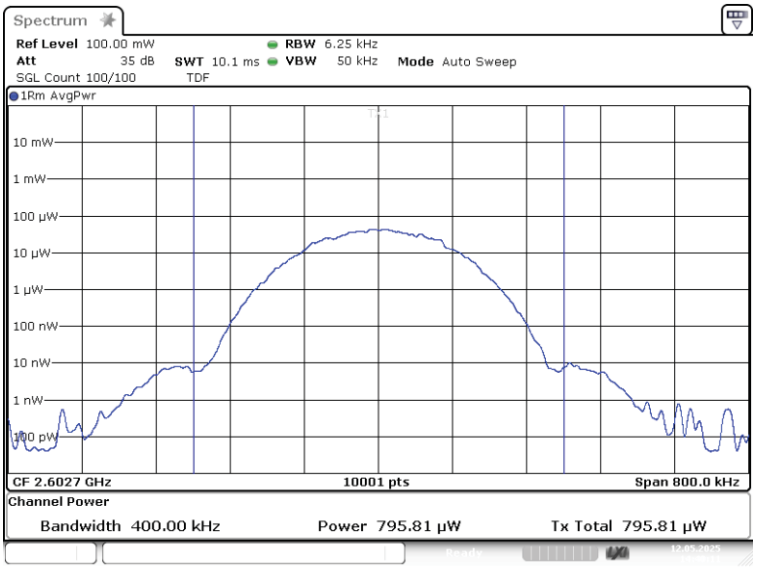
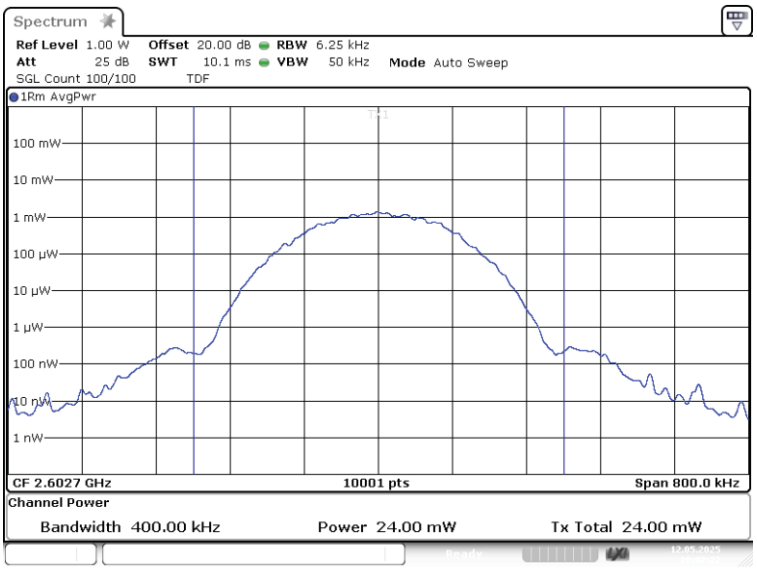
Band: BRS MBS, Antenna 1; Frequency: 2.6027 GHz; Band edge: f0; Mod: GSM;
Input power 0.3 dB < AGC



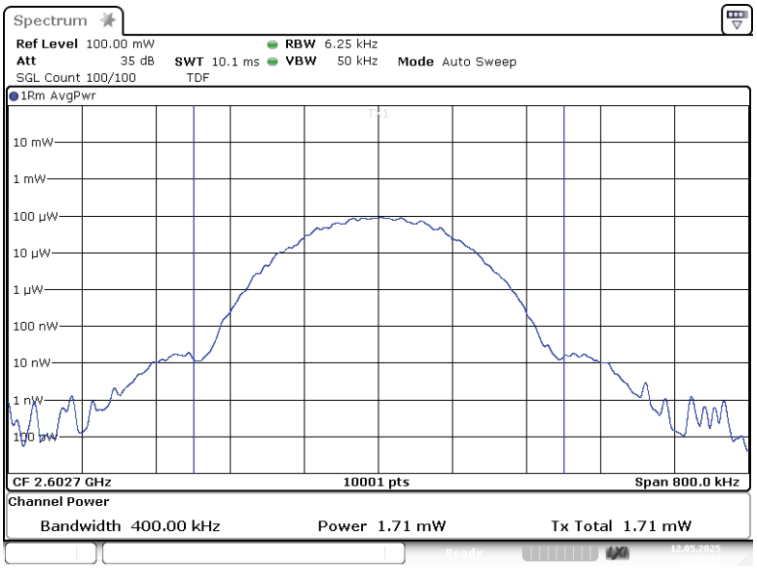
3.5.3 Power_W GSM In-0.3 2.60270G

Band: BRS MBS, Antenna 1; Frequency: 2.6027 GHz; Band edge: f0; Mod: GSM;
Output power 0.3 dB < AGC



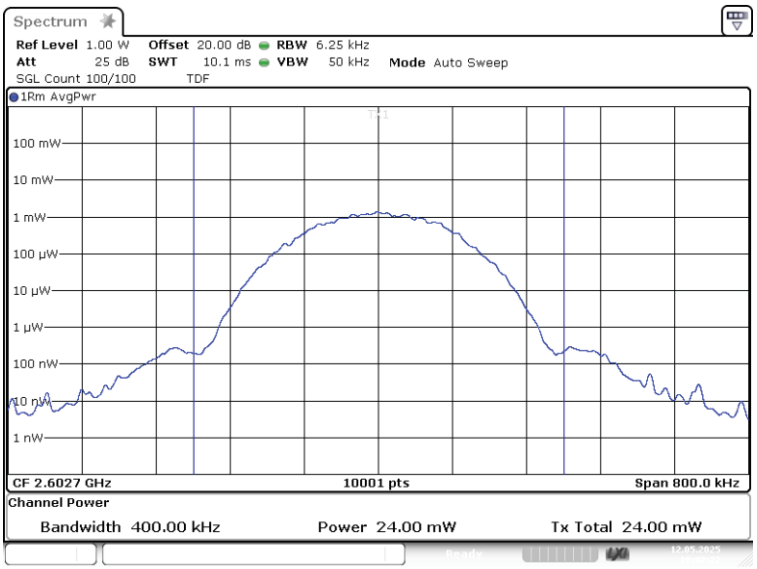
3.5.3 Power_W GSM Out +3 2.60270G

Band: BRS MBS, Antenna 1; Frequency: 2.6027 GHz; Band edge: f0; Mod: GSM;
Input power 3 dB > AGC



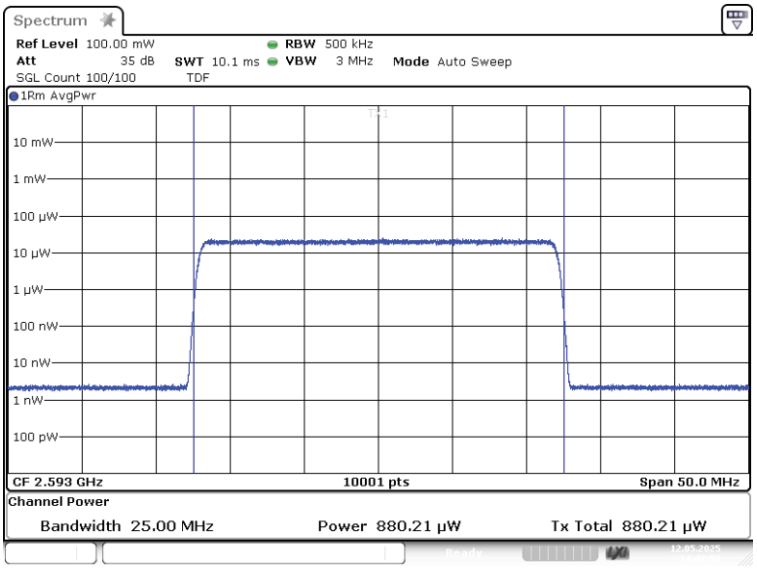
3.5.3 Power_W GSM In+3 2.60270G

Band: BRS MBS, Antenna 1; Frequency: 2.6027 GHz; Band edge: f0; Mod: GSM;
Output power 3 dB > AGC



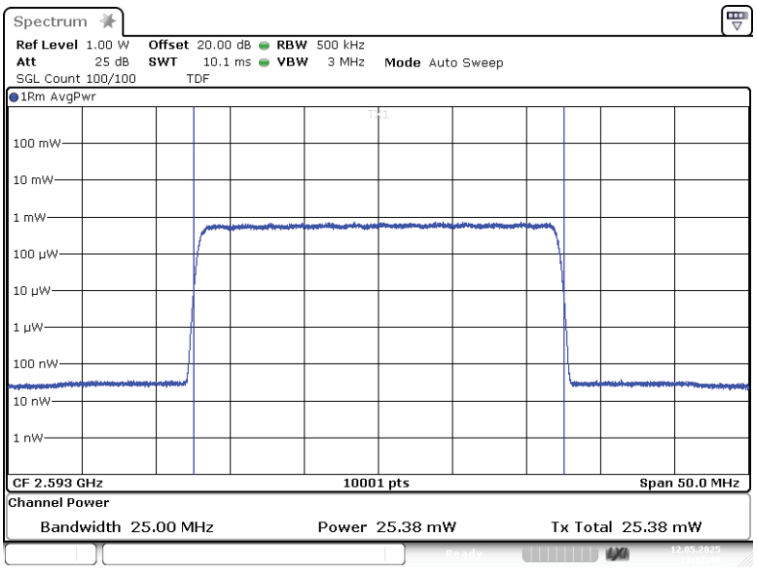
3.5.3 Power_W GSM Out +3 2.60270G

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Input power 0.3 dB < AGC



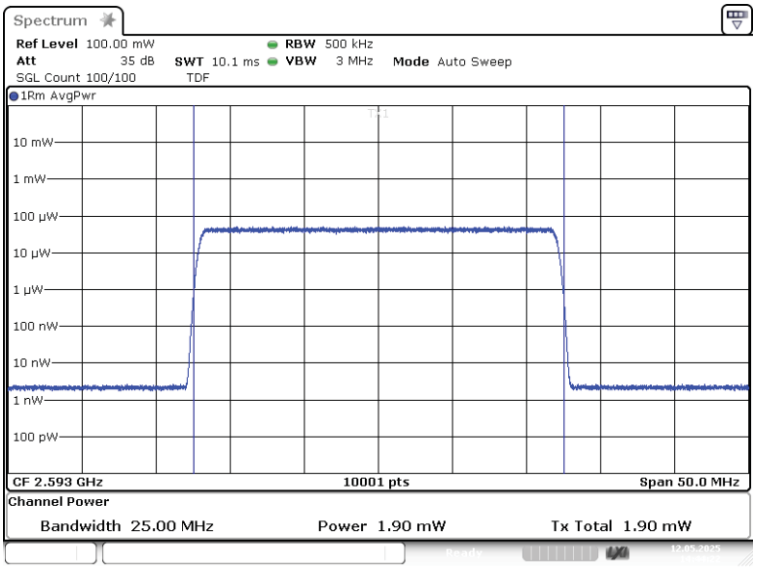
3.5.3 Power_W AWGN 25M In-0.3 2.59300G

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Output power 0.3 dB < AGC



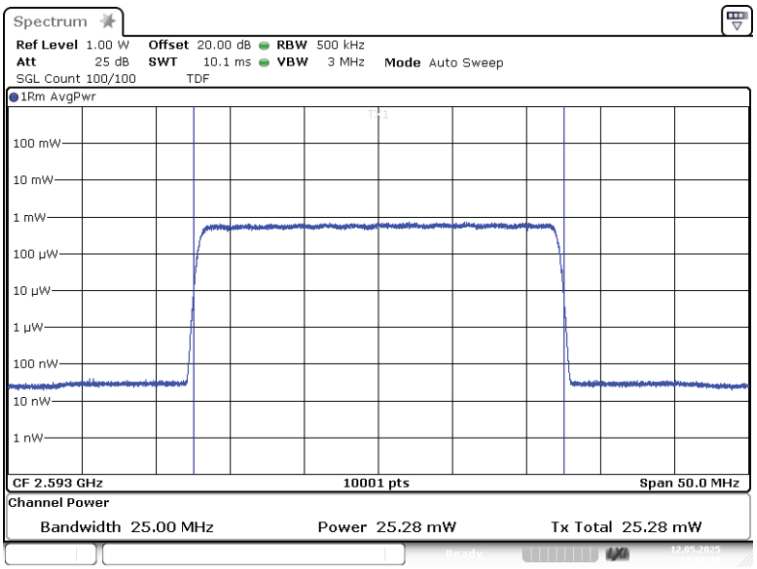
3.5.3 Power_W AWGN 25M Out -0.3 2.59300G

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Input power 3 dB > AGC



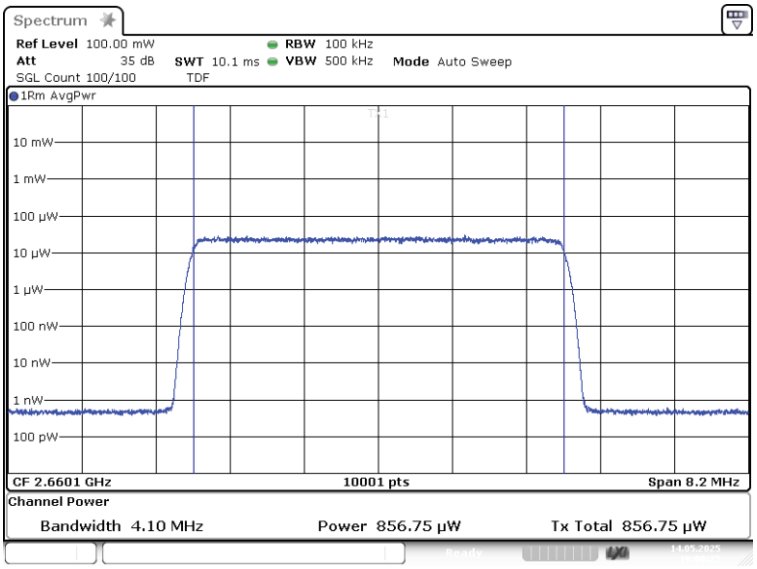
3.5.3 Power_W AWGN 25M In+3 2.59300G

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Output power 3 dB > AGC



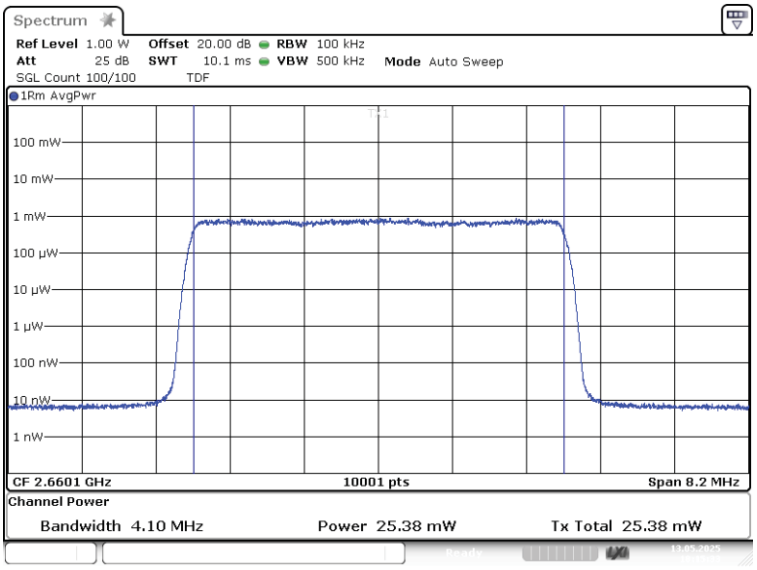
3.5.3 Power_W AWGN 25M Out +3 2.59300G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: AWGN;
Input power 0.3 dB < AGC



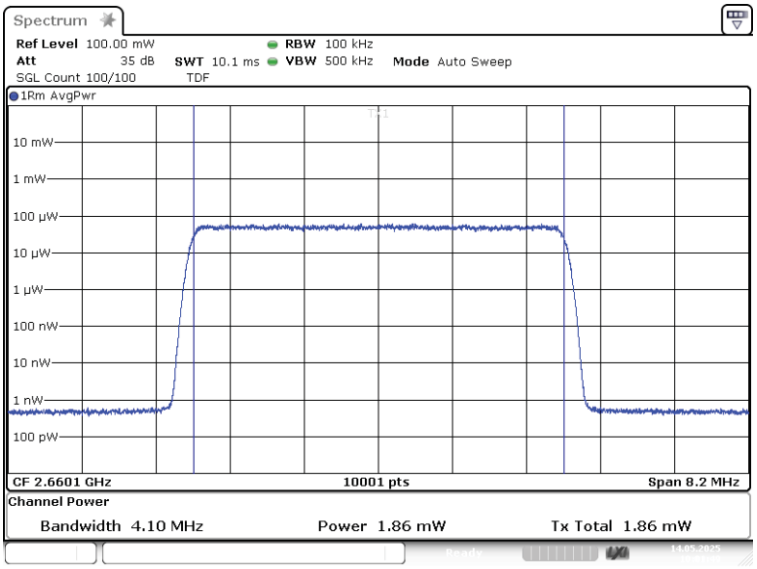
3.5.3 Power_W AWGN In-0.3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: AWGN;
Output power 0.3 dB < AGC



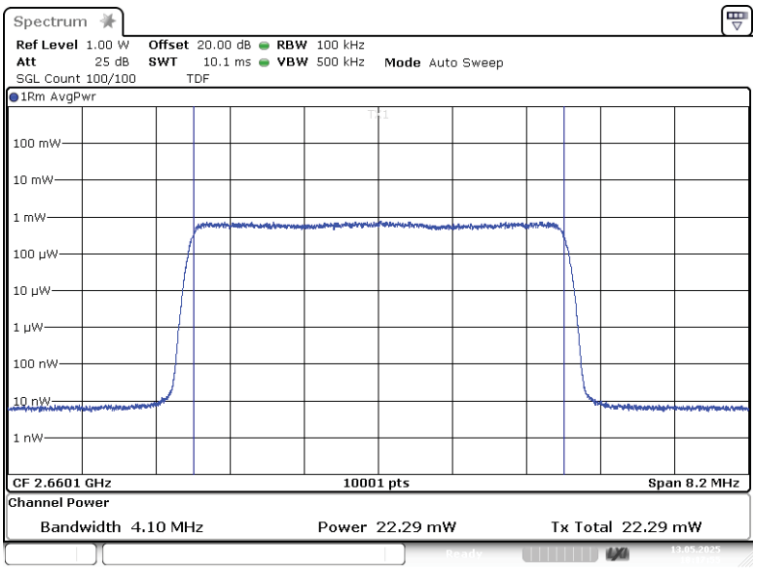
3.5.3 Power_W AWGN Out -0.3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: AWGN;
Input power 3 dB > AGC



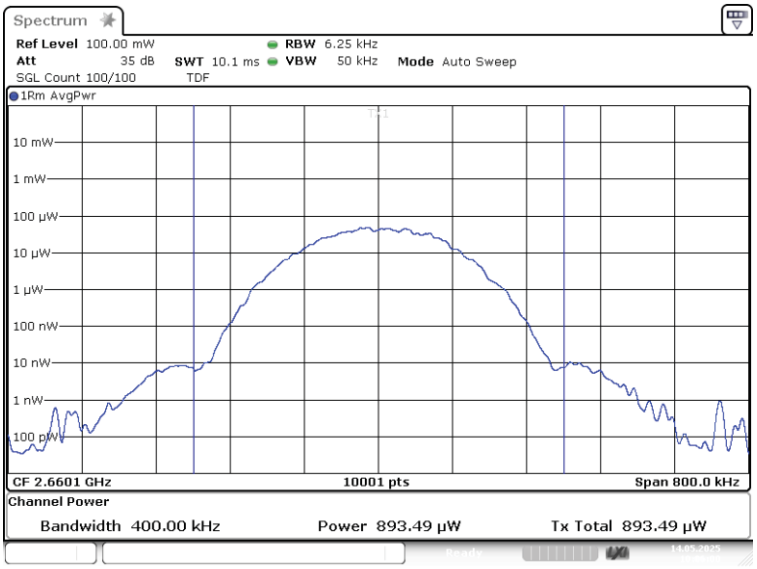
3.5.3 Power_W AWGN In+3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: AWGN;
Output power 3 dB > AGC



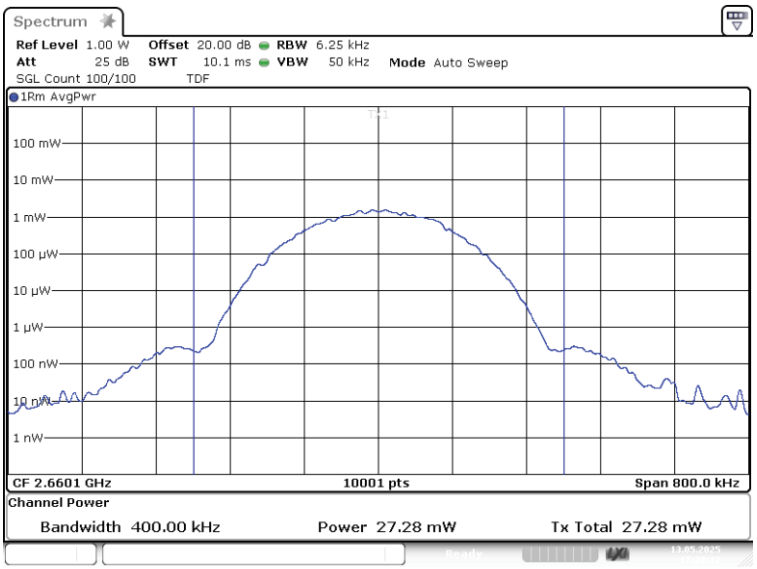
3.5.3 Power_W AWGN Out +3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: GSM;
Input power 0.3 dB < AGC



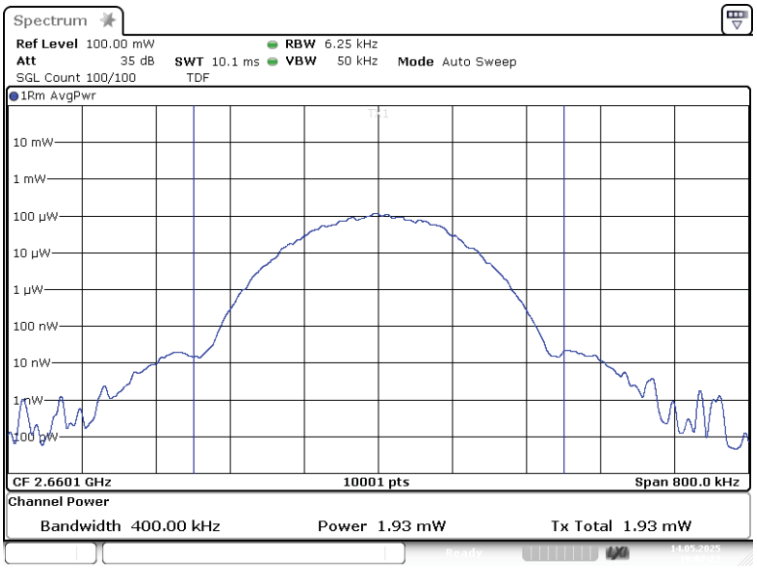
3.5.3 Power_W GSM In-0.3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: GSM;
Output power 0.3 dB < AGC



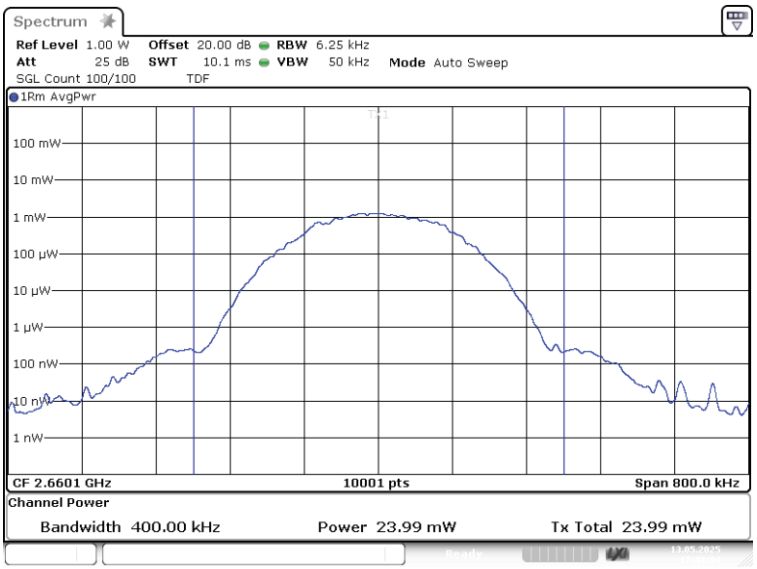
3.5.3 Power_W GSM Out -0.3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: GSM;
Input power 3 dB > AGC



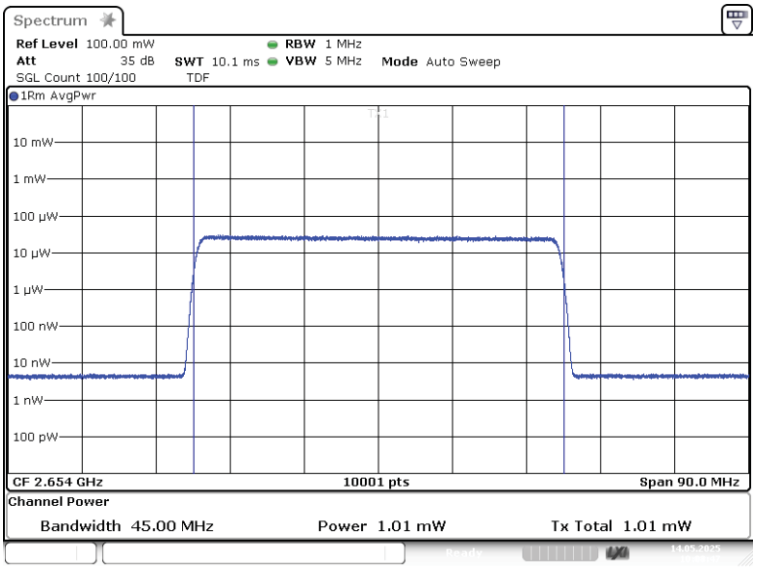
3.5.3 Power_W GSM In+3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6601 GHz; Band edge: f0; Mod: GSM;
Output power 3 dB > AGC



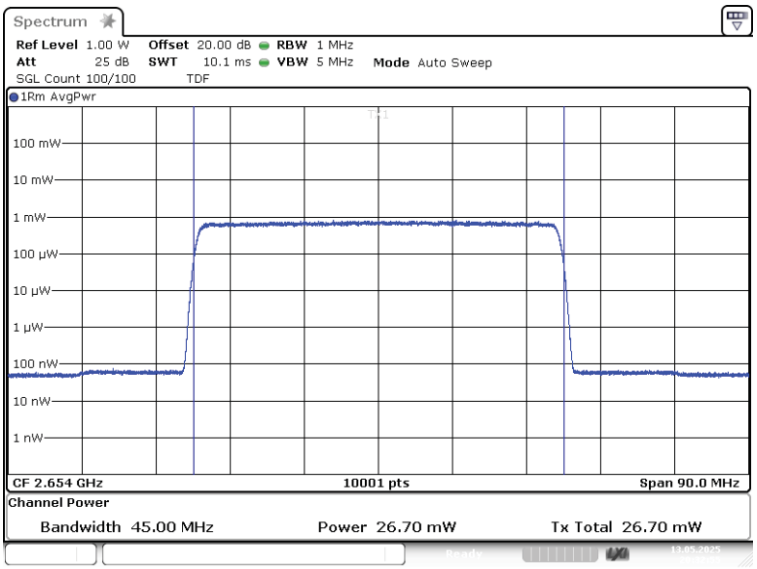
3.5.3 Power_W GSM Out +3 2.66010G

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Input power 0.3 dB < AGC



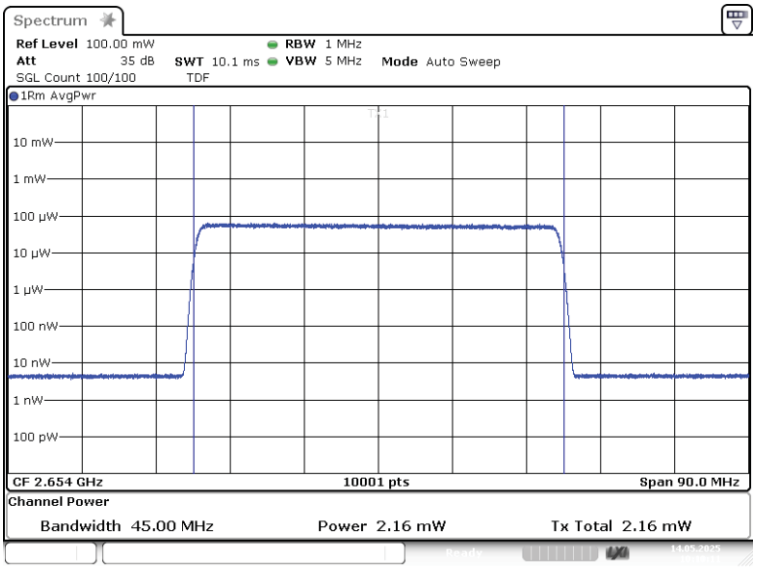
3.5.3 Power_W AWGN 45M In-0.3 2.65400G

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Output power 0.3 dB < AGC



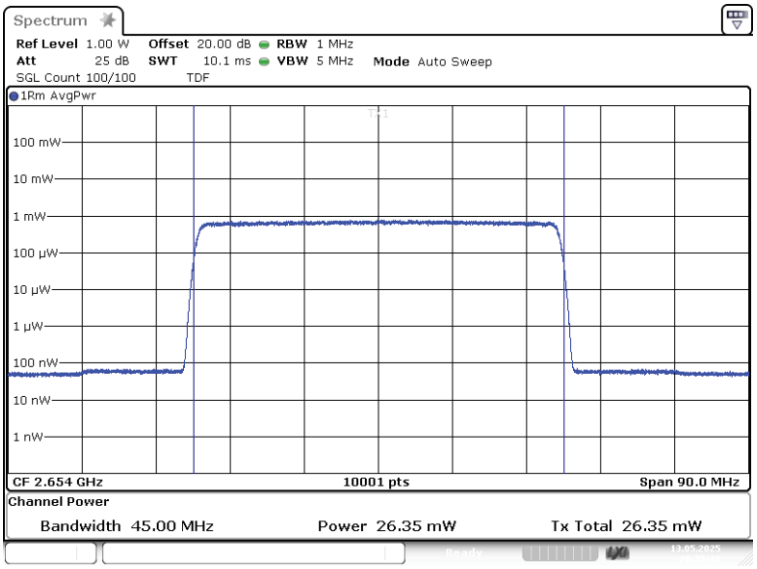
3.5.3 Power_W AWGN 45M Out -0.3 2.65400G

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Input power 3 dB > AGC



3.5.3 Power_W AWGN 45M In+3 2.65400G

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Output power 3 dB > AGC



3.5.3 Power_W AWGN 45M Out +3 2.65400G

5.1.6 TEST EQUIPMENT USED

- Conducted

5.2 OCCUPIED BANDWIDTH/INPUT-VERSUS-OUTPUT SPECTRUM

Standard FCC Part 2.1049; Occupied bandwidth

The test was performed according to:
ANSI C63.26, KDB 935210 D05 v01r04: 3.4

Test date: 2025-05-09 – 2025-05-14

Environmental conditions: 24.0 °C; 26 % r. H., average values of all test dates

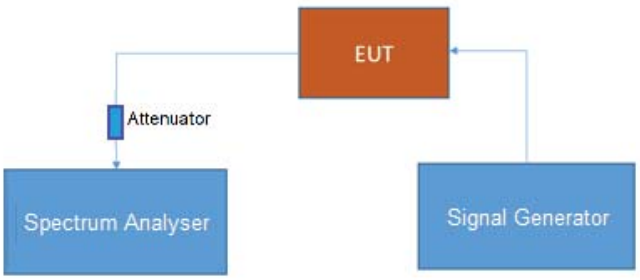
Test engineer: Thomas Hufnagel

5.2.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the applicable conducted spurious emission limits per FCC §2.1049, RSS-GEN 6.4 and RSS-131-5.2.2

The EUT was connected to the test setups according to the following diagram:

Test Setup step 1: Measuring characteristics of test signals



Test Setup step 2; Occupied Bandwidth/Input-versus-output spectrum

The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

5.2.2 TEST REQUIREMENTS/LIMITS

Abstract from FCC Part 2:

FCC Part 2.1051; Measurement required: Spurious emissions at antenna terminal:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

Part 27; Miscellaneous Wireless Communication Services

Subpart C – Technical standards

§27.53 – Emission limits

Band 41 BRS (LBS/UBS)

(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.

(1) Prior to the transition, and thereafter, solely within the MBS, for analog operations with an EIRP in excess of −9 dBW, the signal shall be attenuated at the channel edges by at least 38 dB relative to the peak visual carrier, then linearly sloping from that level to at least 60 dB of attenuation at 1 MHz below the lower band edge and 0.5 MHz above the upper band edge, and attenuated at least 60 dB at all other frequencies.

(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.

Abstract from ISED RSS-199:

RSS-199; 5.6 Unwanted emission limits

Unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 MHz band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2% for subscriber equipment other than fixed subscriber equipment. Beyond this 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 4: Unwanted emission limits for fixed station, base station and fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (MHz)	Unwanted emission limits
≤ 1	-13 dBm/(1% of OB*)
> 1	-13 dBm/MHz

*OB is the occupied bandwidth

Abstract from FCC Part 2:

FCC Part 2.1049; Occupied bandwidth:

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.3 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable:

(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 user.

(i) Transmitters designed for other types of modulation—when modulated by an appropriate signal of sufficient amplitude to be representative of the type of service in which used. A description of the input signal should be supplied.

Abstract from ISED RSS-131:

RSS-131; 92 Input-versus-output spectrum

The spectral growth of the 26 dB bandwidth of the output signal shall be less than 5% of the input signal spectrum.

5.2.3 TEST PROTOCOL

Band 41 BRS (LBS), downlink							
Signal Type	**Input power**	**Signal Frequency [MHz]**	**Occupied Bandwidth SG [kHz]**	**Occupied Bandwidth Booster [kHz]**	**Delta Occupied Bandwidth [kHz]**	**Limit Delta Occupied Bandwidth [kHz]**	**Margin to Limit [kHz]**
Wideband	0.3 dB < AGC	2532.0	4391.5	4389.7	1.9	205.0	203.2
Wideband	3 dB > AGC	2532.0	4386.0	4387.8	1.9	205.0	203.2
Narrowband	0.3 dB < AGC	2532.0	316.0	313.2	2.8	10.0	7.2
Narrowband	3 dB > AGC	2532.0	318.9	315.6	3.3	10.0	6.7
Wideband 5G	0.3 dB < AGC	2532.0	46066	46114	47	2180	2133
Wideband 5G	3 dB > AGC	2532.0	46046	45965	81	2180	2099

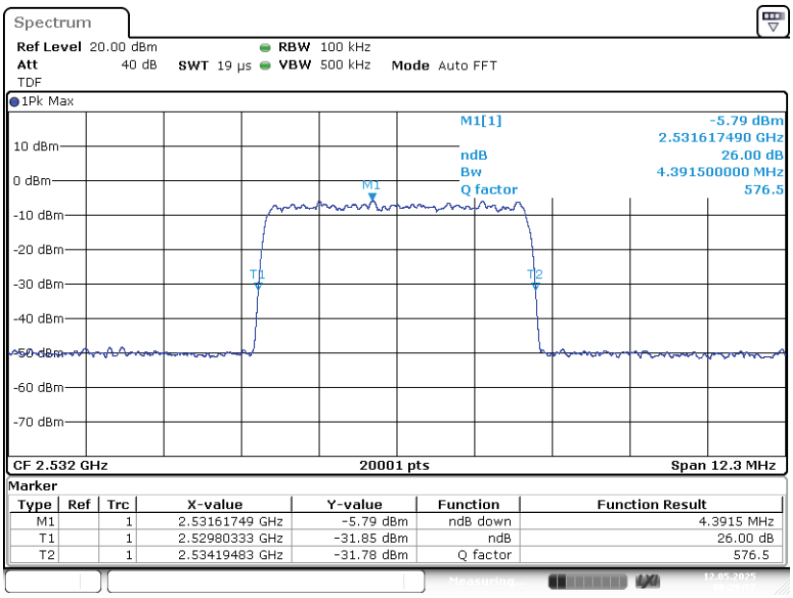
Band 41 BRS (MBS), downlink							
Signal Type	**Input power**	**Signal Frequency [MHz]**	**Occupied Bandwidth SG [kHz]**	**Occupied Bandwidth Booster [kHz]**	**Delta Occupied Bandwidth [kHz]**	**Limit Delta Occupied Bandwidth [kHz]**	**Margin to Limit [kHz]**
Wideband	0.3 dB < AGC	2593,0	4387.8	4390.3	2.5	205.0	202.5
Wideband	3 dB > AGC	2593,0	4390.3	4390.9	0.6	205.0	204.4
Narrowband	0.3 dB < AGC	2593,0	317.2	322.1	4.9	10.0	5.1
Narrowband	3 dB > AGC	2593,0	316.3	317.0	0.7	10.0	9.3
Wideband 5G	0.3 dB < AGC	2593,0	25154	25165	11	1195	1184
Wideband 5G	3 dB > AGC	2593,0	25154	25173	19	1195	1176

Band 41 BRS (UBS), downlink							
Signal Type	**Input power**	**Signal Frequency [MHz]**	**Occupied Bandwidth SG [kHz]**	**Occupied Bandwidth Booster [kHz]**	**Delta Occupied Bandwidth [kHz]**	**Limit Delta Occupied Bandwidth [kHz]**	**Margin to Limit [kHz]**
Wideband	0.3 dB < AGC	2654,0	4382.9	4392.1	9.2	205.0	195.8
Wideband	3 dB > AGC	2654,0	4390.3	4389.7	0.6	205.0	204.4
Narrowband	0.3 dB < AGC	2654,0	313.3	315.2	1.9	10.0	8.1
Narrowband	3 dB > AGC	2654,0	318.5	314.6	4.0	10.0	6.0
Wideband 5G	0.3 dB < AGC	2654,0	46006	45979	27	2180	2153
Wideband 5G	3 dB > AGC	2654,0	46107	46100	7	2180	2173

Remark: Please see next sub-clause for the measurement plot.

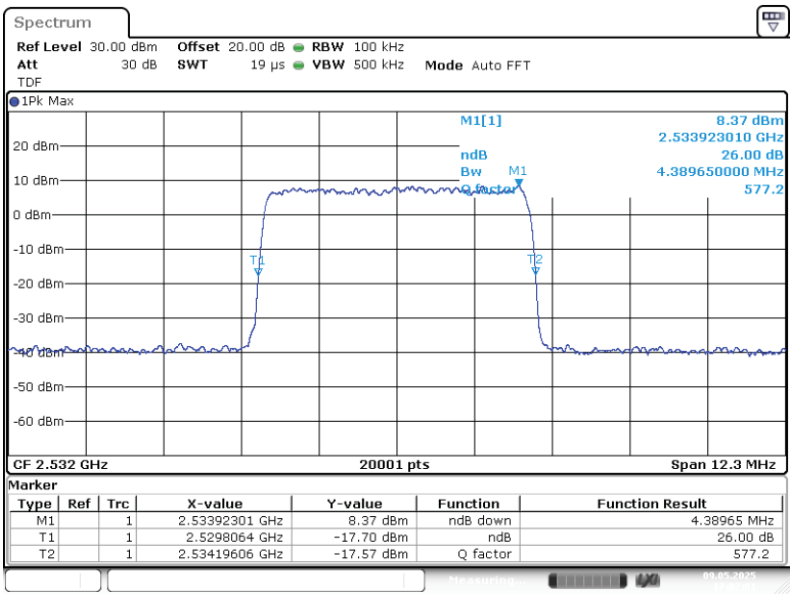
5.2.4 MEASUREMENT PLOT

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN;
Input OCBw 0.3 dB < AGC



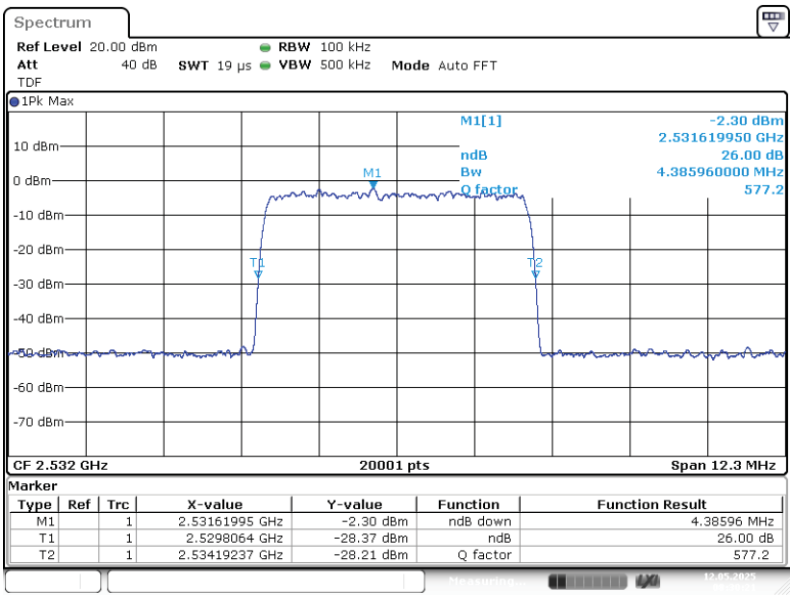
3.4 OCBw AWGN In-0.3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN;
Output OCBw 0.3 dB < AGC



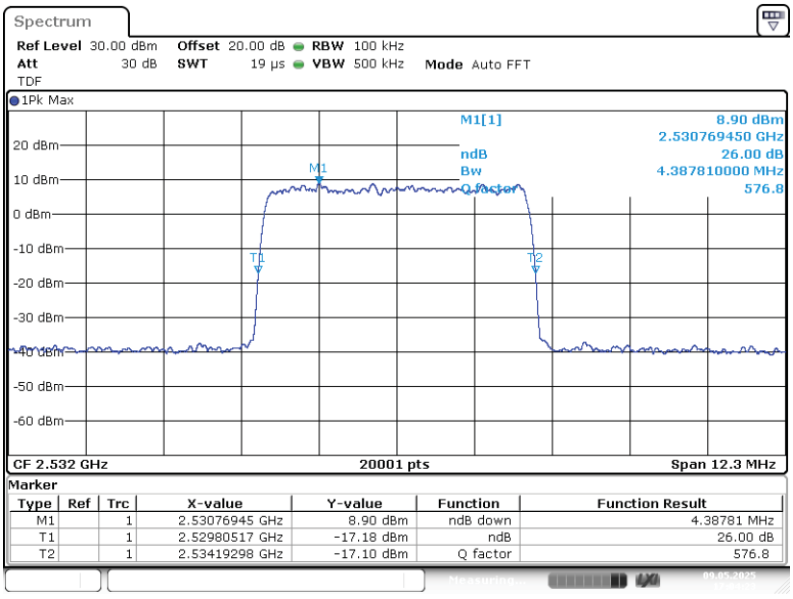
3.4 OCBw AWGN Out -0.3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN; Input OCBw 3 dB > AGC



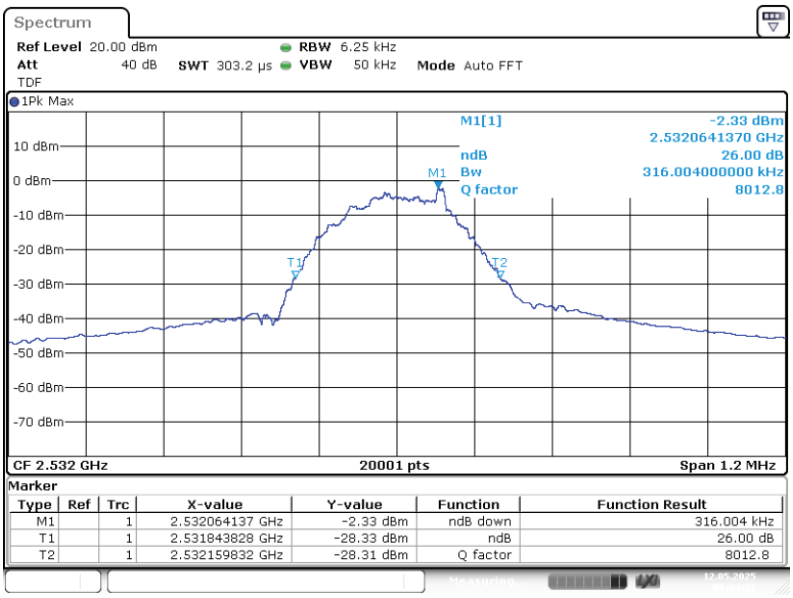
3.4 OCBw AWGN In+3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN; Output OCBw 3 dB > AGC



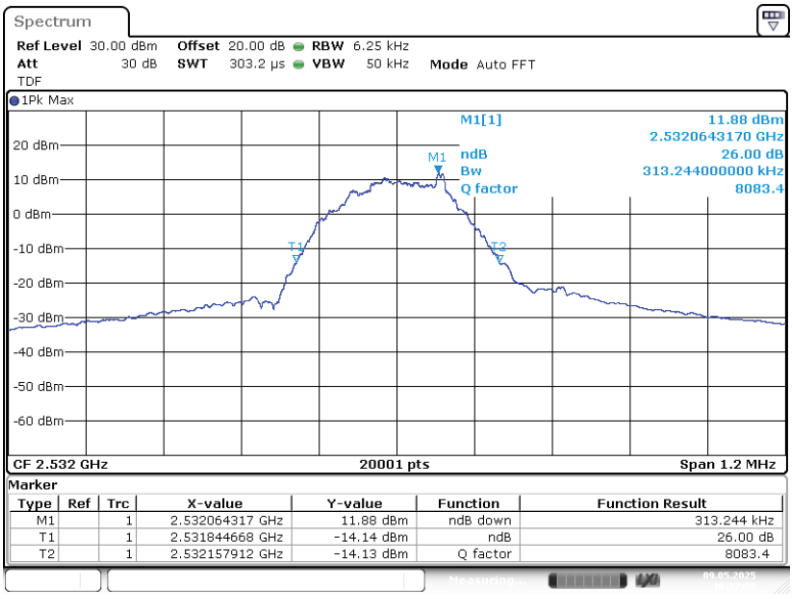
3.4 OCBw AWGN Out +3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: GSM;
Input OCBw 0.3 dB < AGC



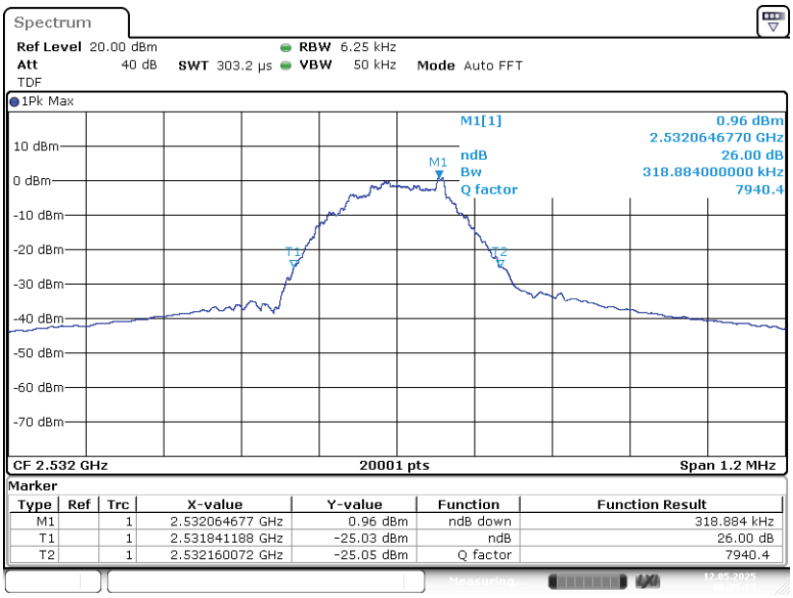
3.4 OCBw GSM In-0.3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: GSM;
Output OCBw 0.3 dB < AGC



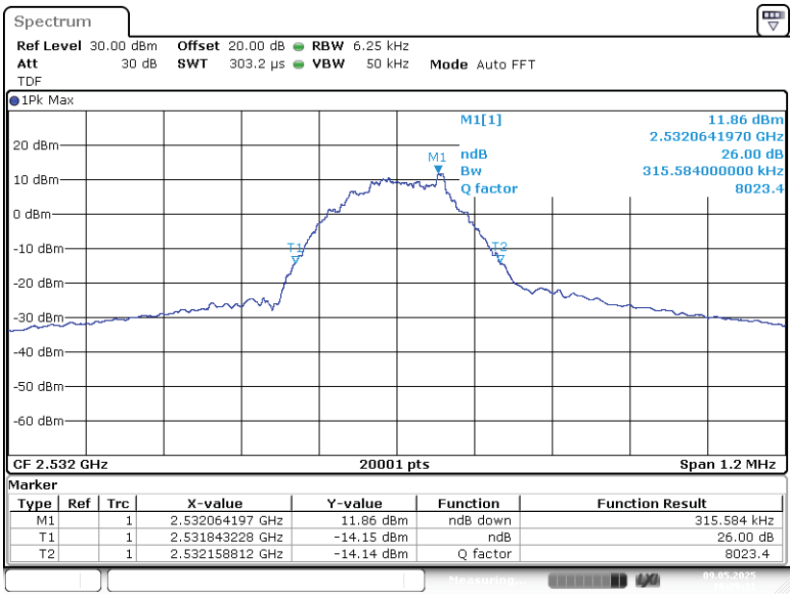
3.4 OCBw GSM Out -0.3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: GSM; Input OCBw 3 dB > AGC



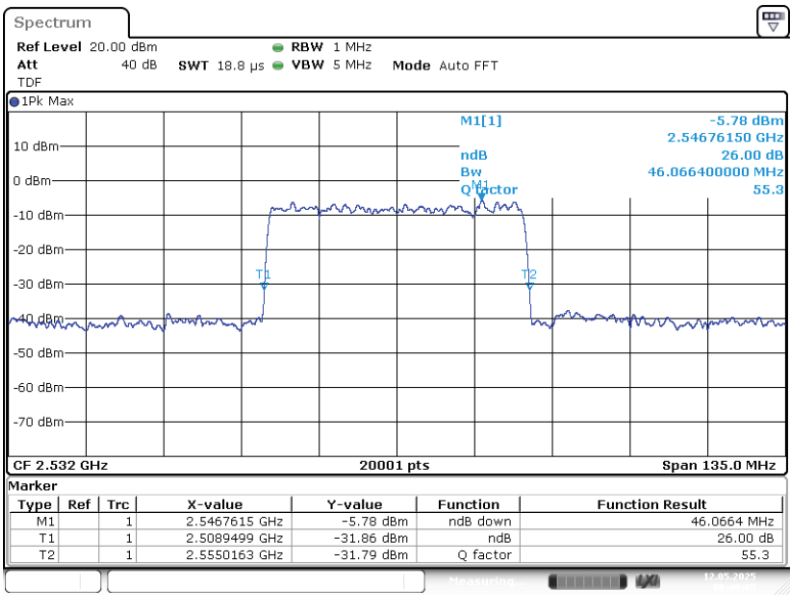
3.4 OCBw GSM In+3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: GSM; Output OCBw 3 dB > AGC



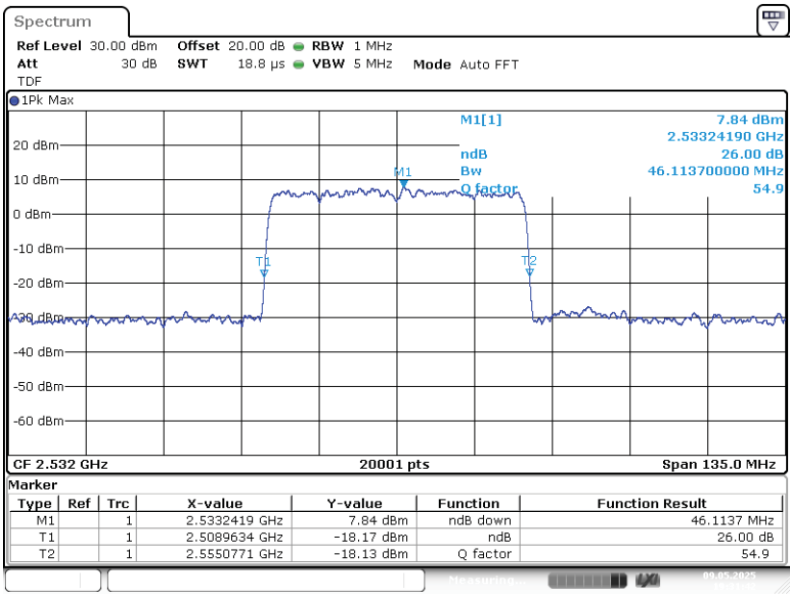
3.4 OCBw GSM Out +3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN 45M; Input OCBw 0.3 dB < AGC



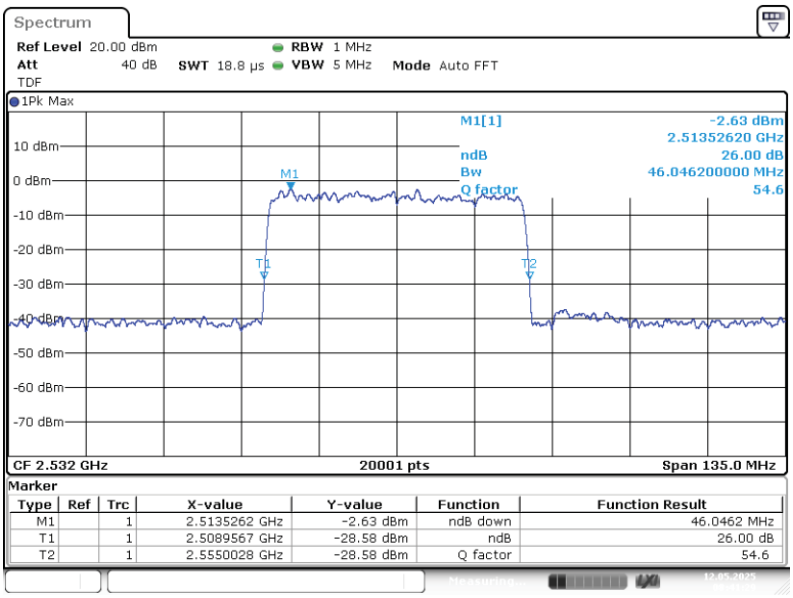
3.4 OCBw AWGN 45M In-0.3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN 45M; Output OCBw 0.3 dB < AGC



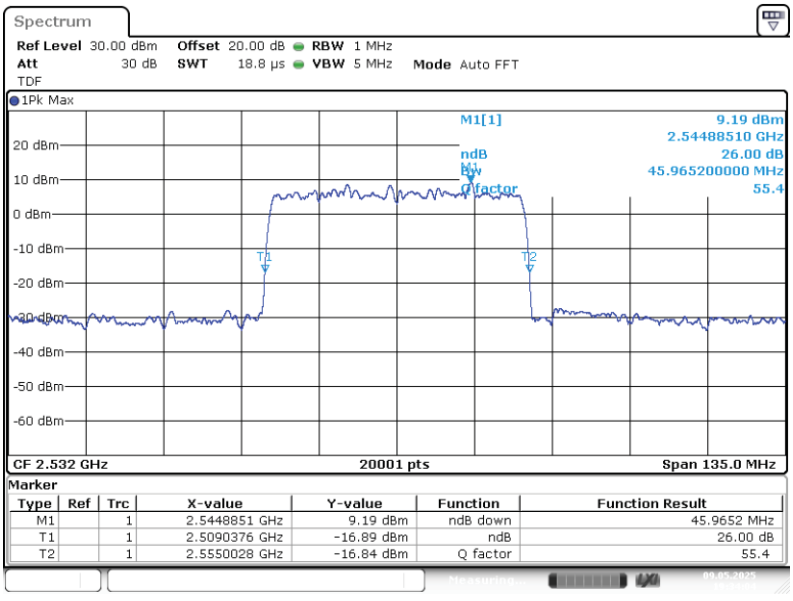
3.4 OCBw AWGN 45M Out -0.3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN 45M; Input OCBw 3 dB > AGC



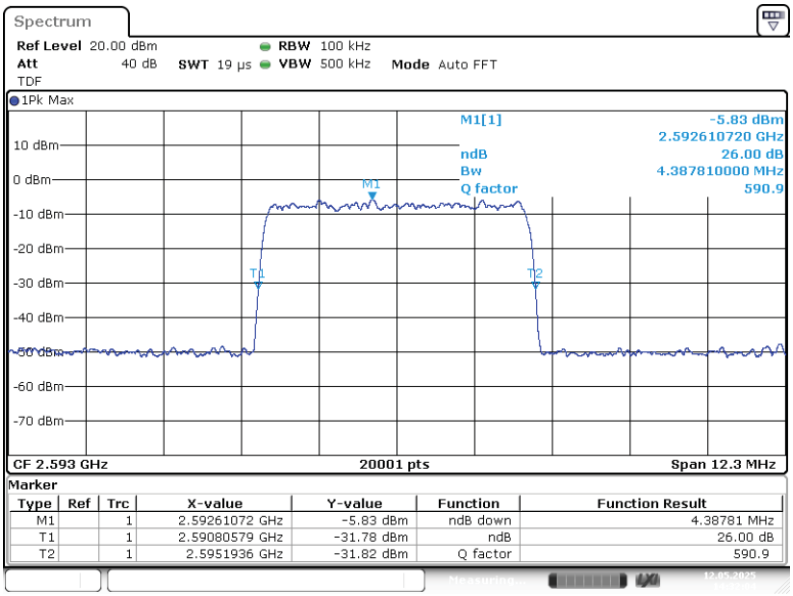
3.4 OCBw AWGN 45M In+3 2.5320G _26dB

Band: BRS LBS, Antenna 1; Frequency: 2.5320 GHz; Band edge: mid; Mod: AWGN 45M; Output OCBw 3 dB > AGC



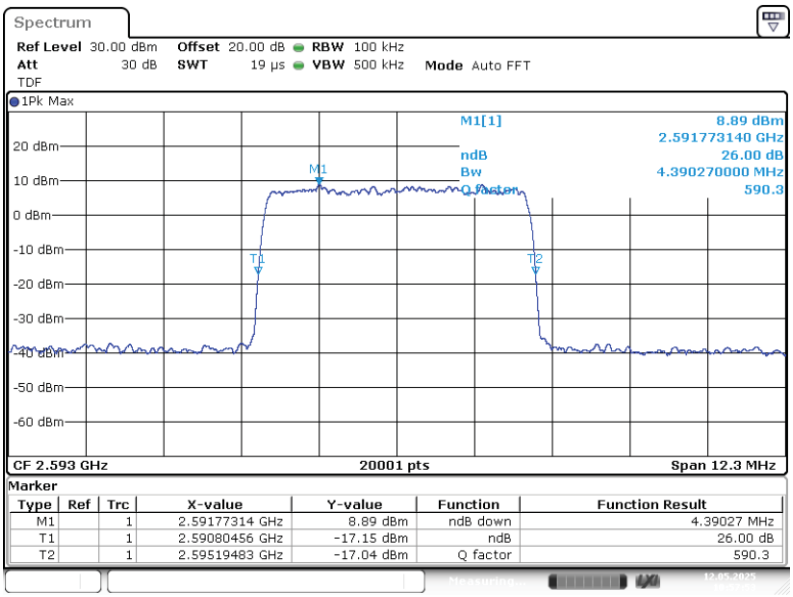
3.4 OCBw AWGN 45M Out +3 2.5320G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN;
Input OCBw 0.3 dB < AGC



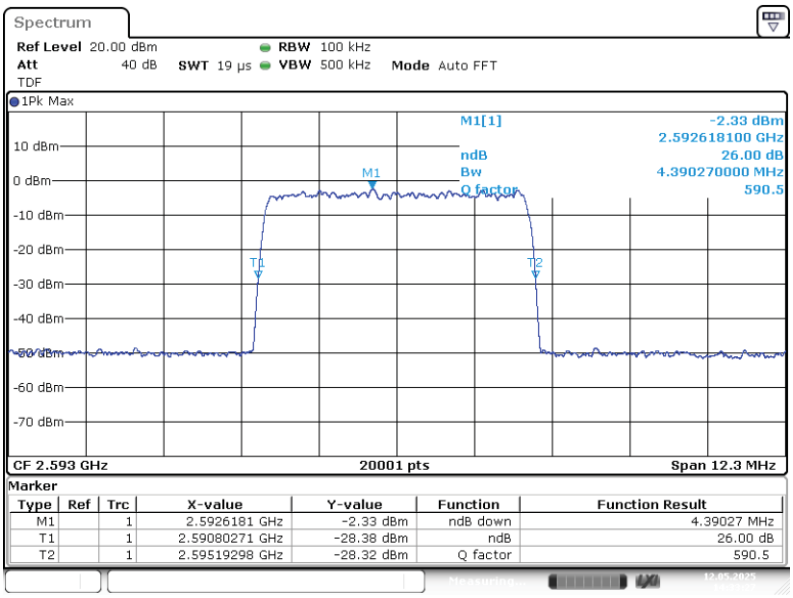
3.4 OCBw AWGN In-0.3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN;
Output OCBw 0.3 dB < AGC



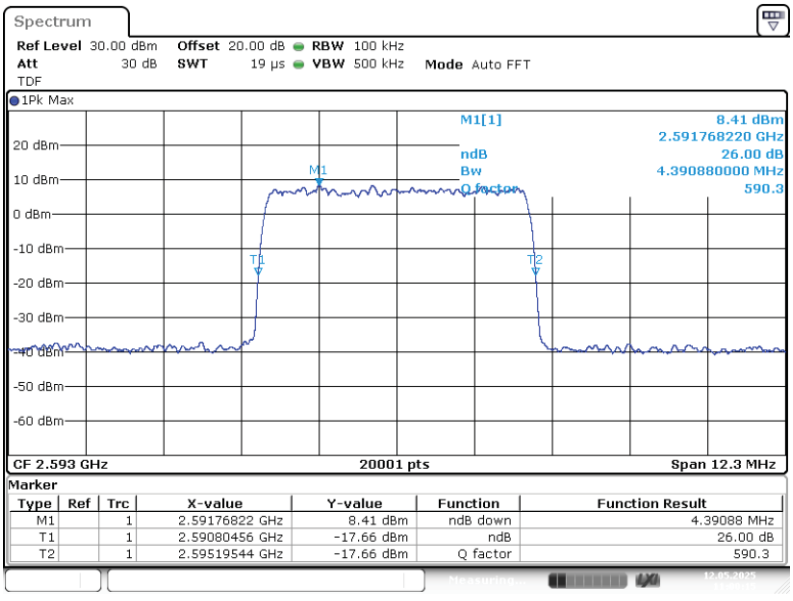
3.4 OCBw AWGN Out -0.3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN; Input OCBw 3 dB > AGC



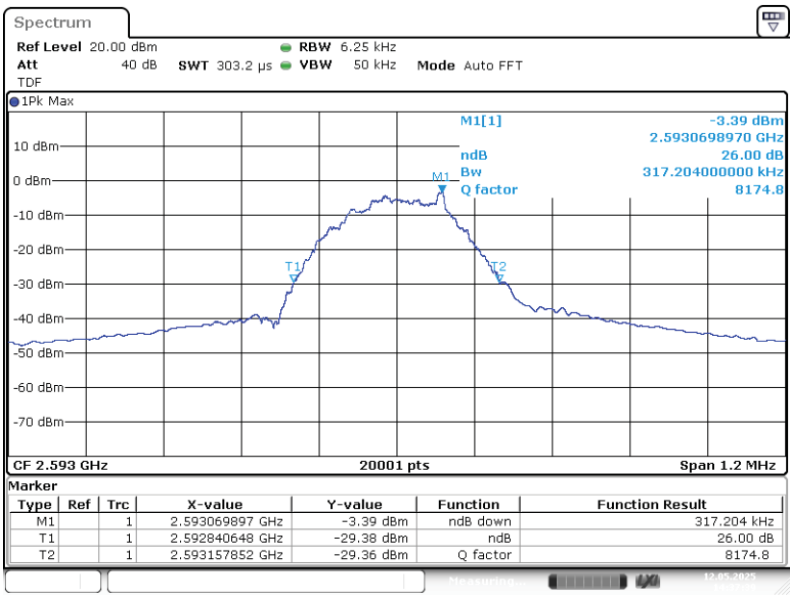
3.4 OCBw AWGN In+3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN; Output OCBw 3 dB > AGC



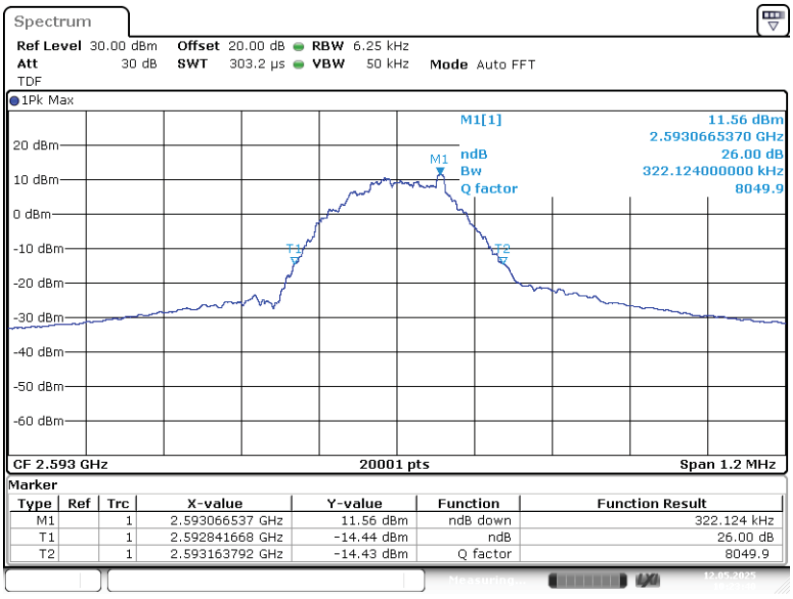
3.4 OCBw AWGN Out +3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: GSM; Input OCBw 0.3 dB < AGC



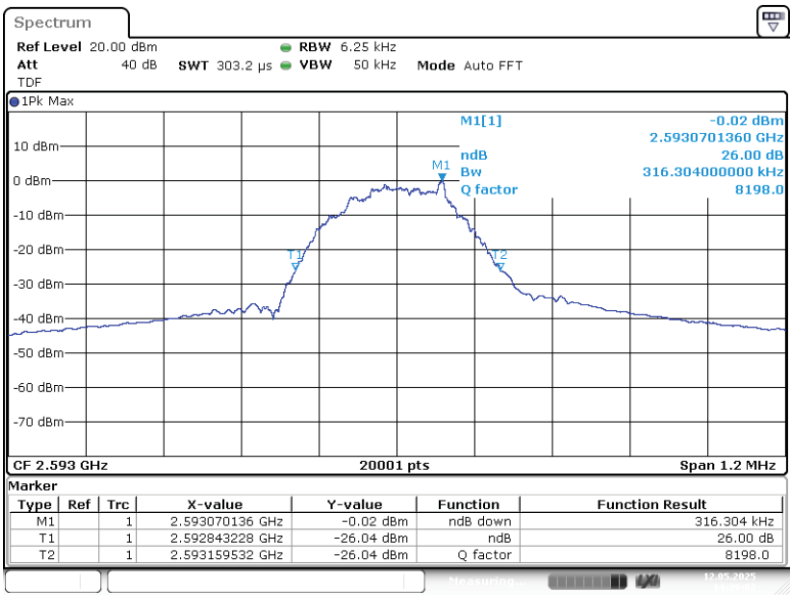
3.4 OCBw GSM In-0.3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: GSM; Output OCBw 0.3 dB < AGC



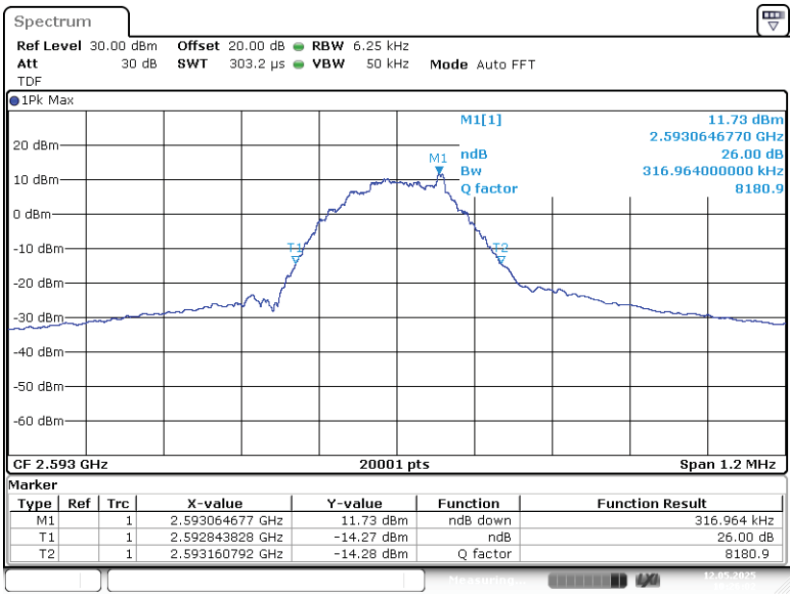
3.4 OCBw GSM Out -0.3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: GSM; Input OCBw 3 dB > AGC



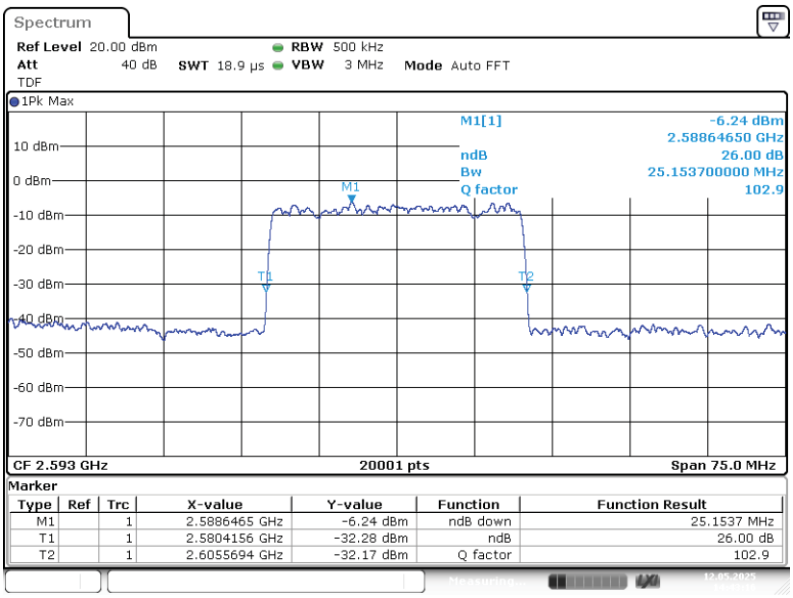
3.4 OCBw GSM In+3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: GSM; Output OCBw 3 dB > AGC



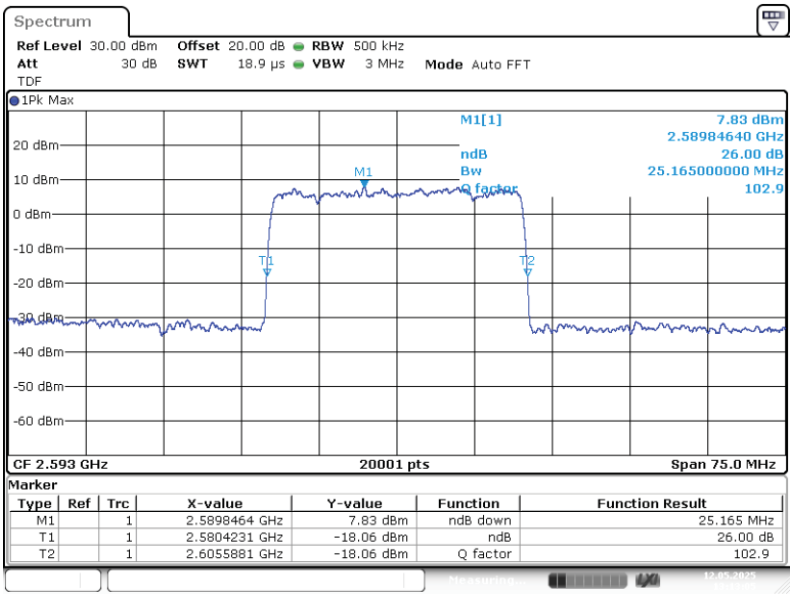
3.4 OCBw GSM Out +3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Input OCBw 0.3 dB < AGC



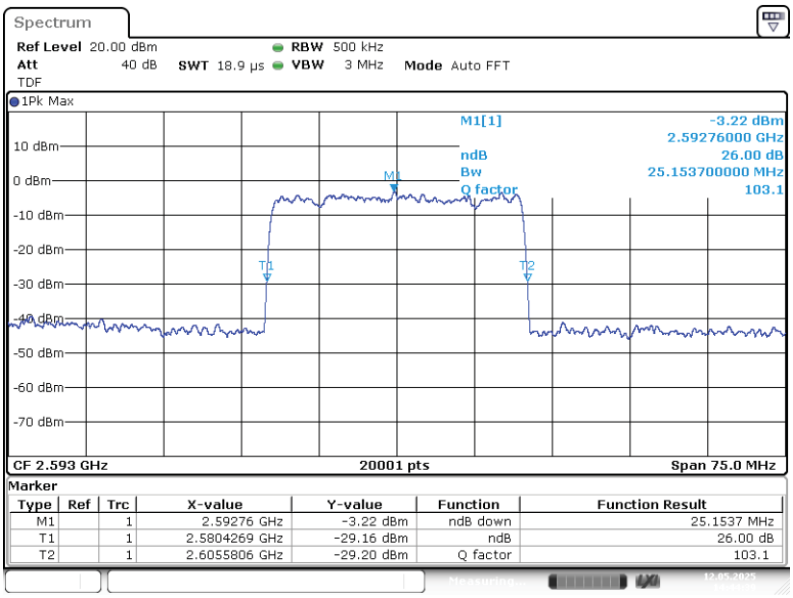
3.4 OCBw AWGN 25M In-0.3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Output OCBw 0.3 dB < AGC



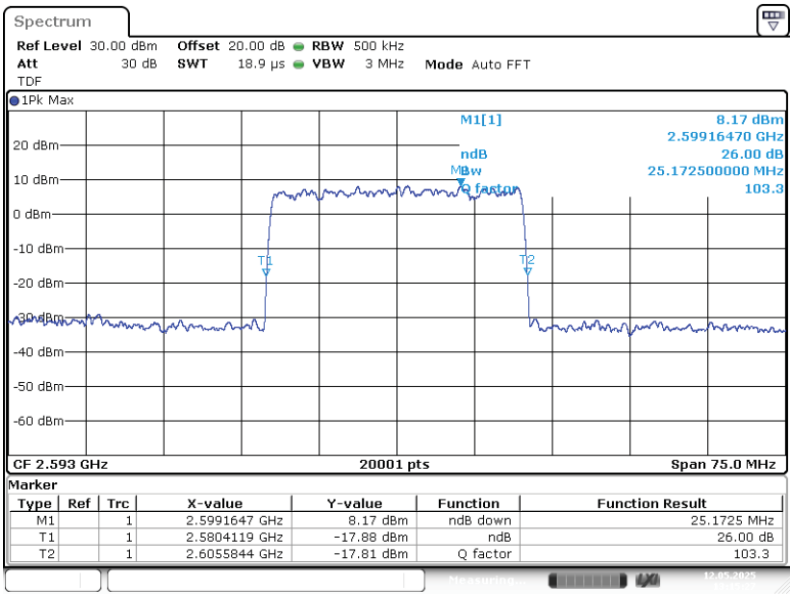
3.4 OCBw AWGN 25M Out -0.3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Input OCBw 3 dB > AGC



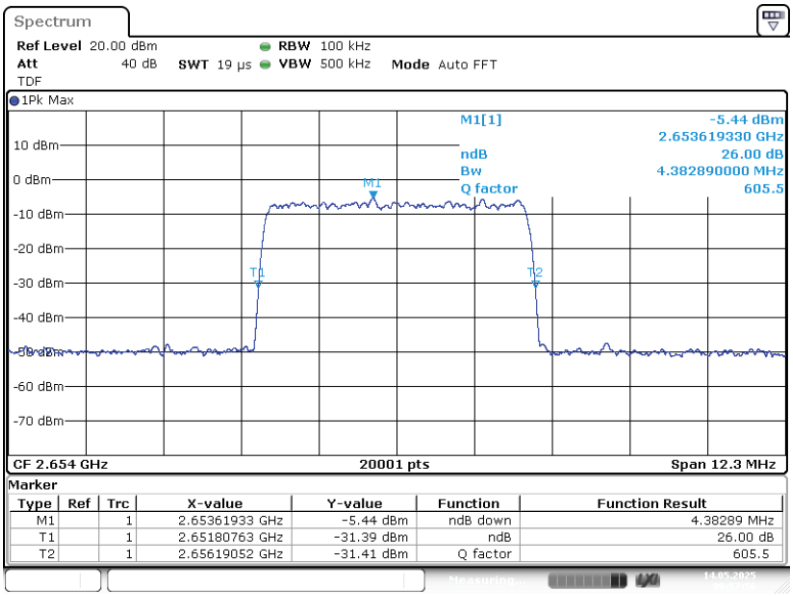
3.4 OCBw AWGN 25M In+3 2.5930G _26dB

Band: BRS MBS, Antenna 1; Frequency: 2.5930 GHz; Band edge: mid; Mod: AWGN 25M; Output OCBw 3 dB > AGC



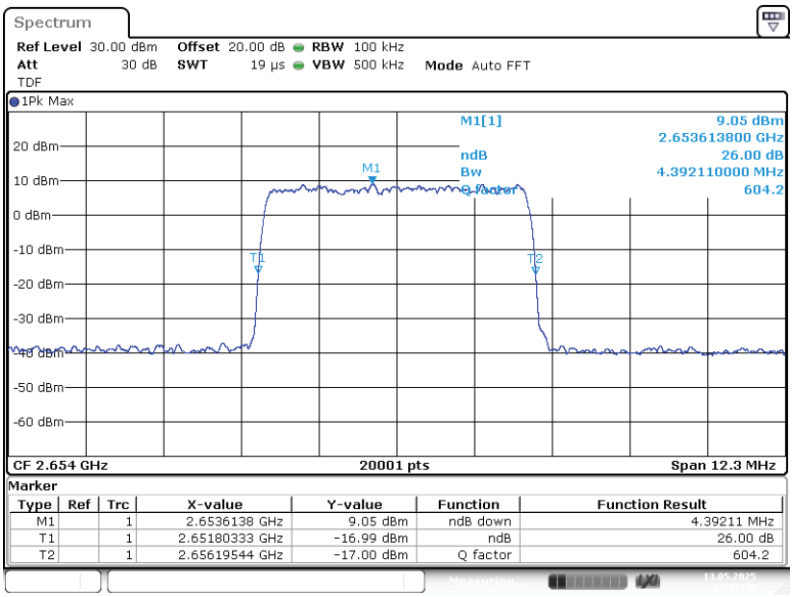
3.4 OCBw AWGN 25M Out +3 2.5930G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN;
Input OCBw 0.3 dB < AGC



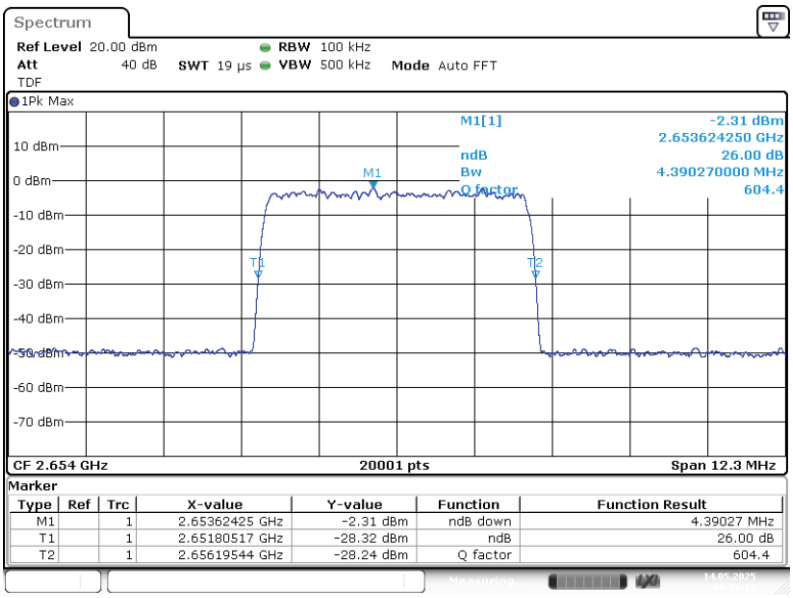
3.4 OCBw AWGN In-0.3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN;
Output OCBw 0.3 dB < AGC



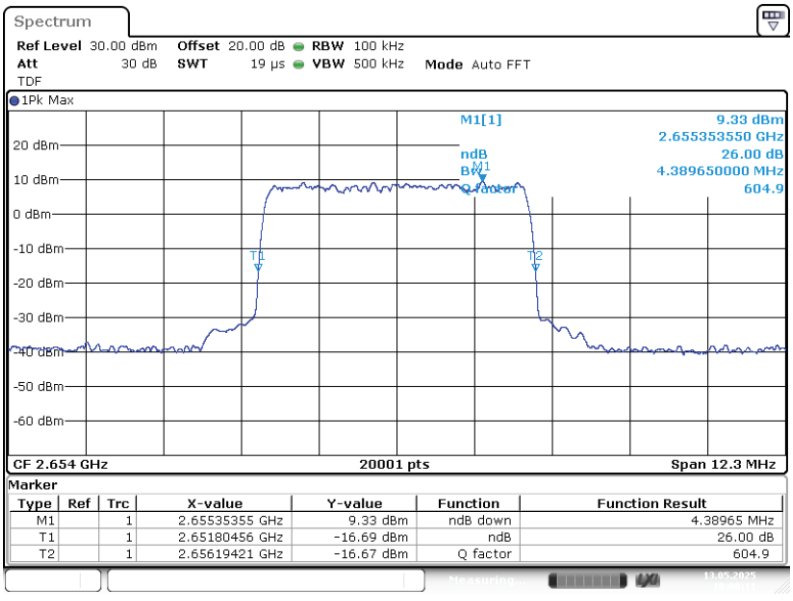
3.4 OCBw AWGN Out -0.3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN; Input OCBw 3 dB > AGC



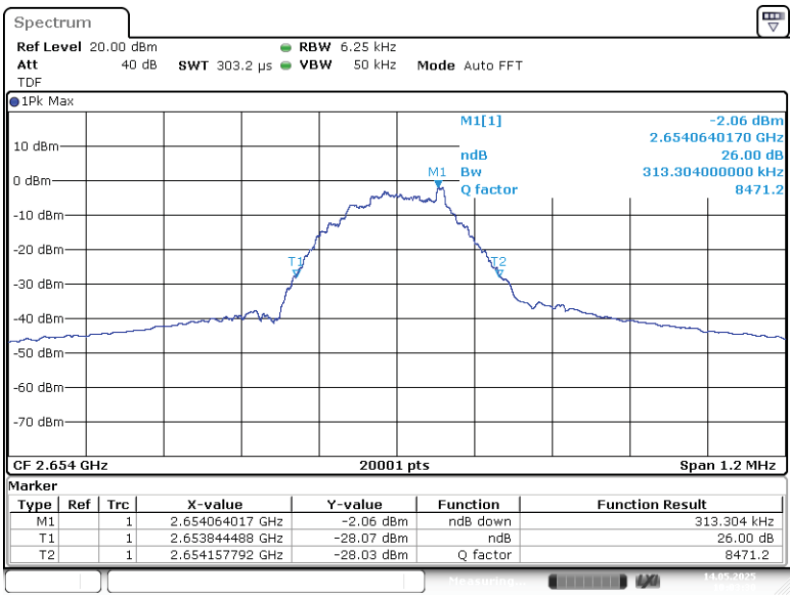
3.4 OCBw AWGN In+3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN; Output OCBw 3 dB > AGC



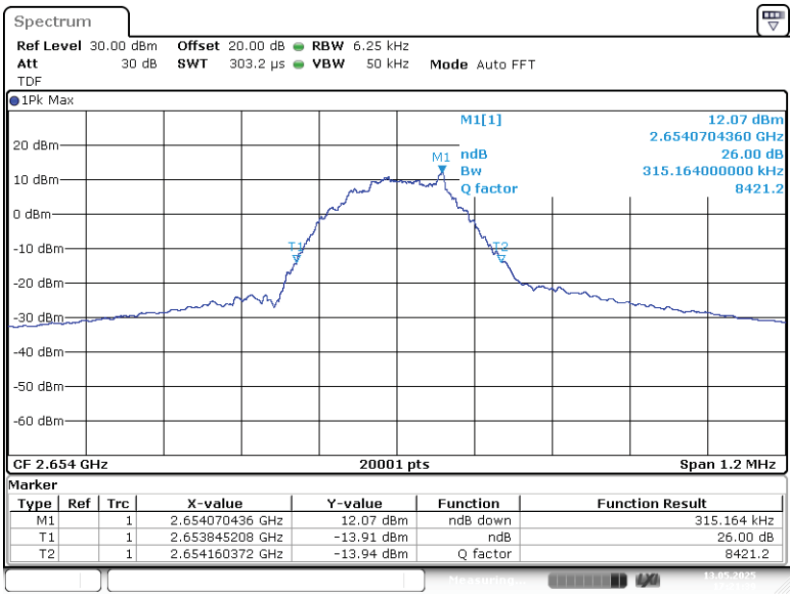
3.4 OCBw AWGN Out +3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: GSM; Input OCBw 0.3 dB < AGC



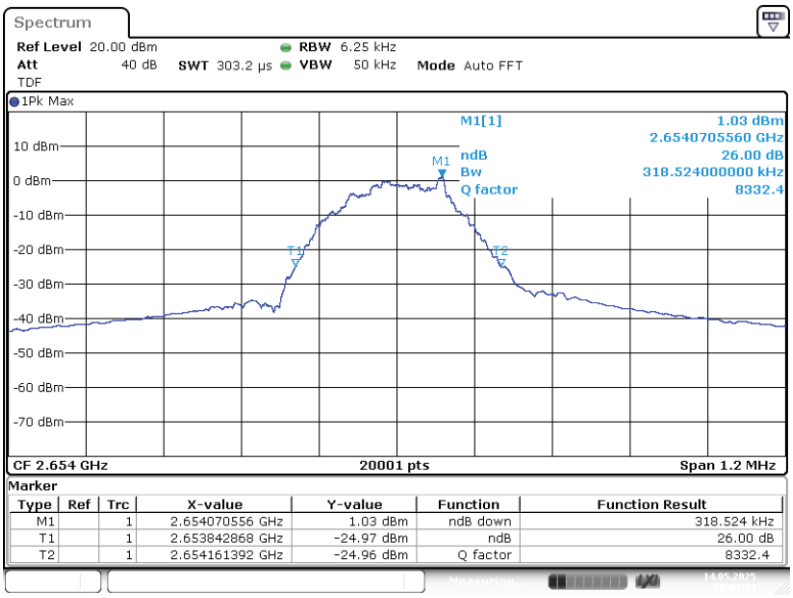
3.4 OCBw GSM In-0.3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: GSM; Output OCBw 0.3 dB < AGC



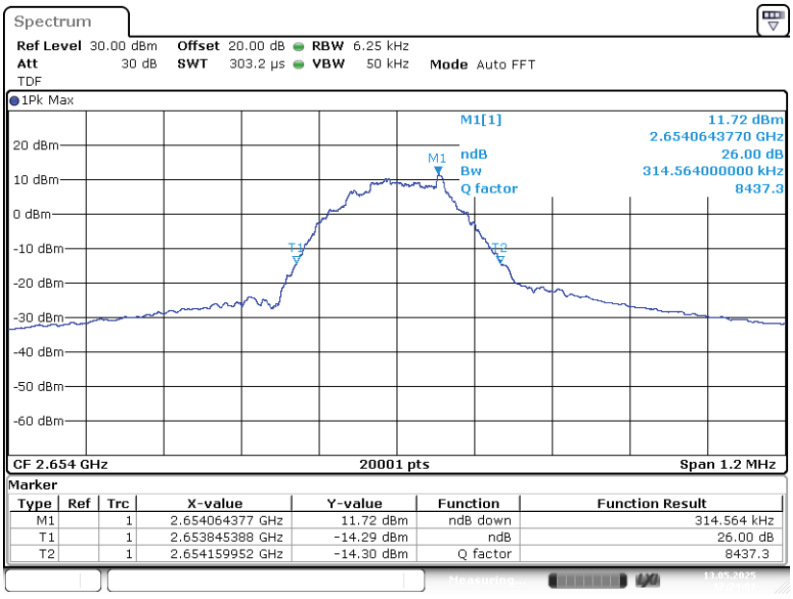
3.4 OCBw GSM Out -0.3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: GSM; Input OCBw 3 dB > AGC



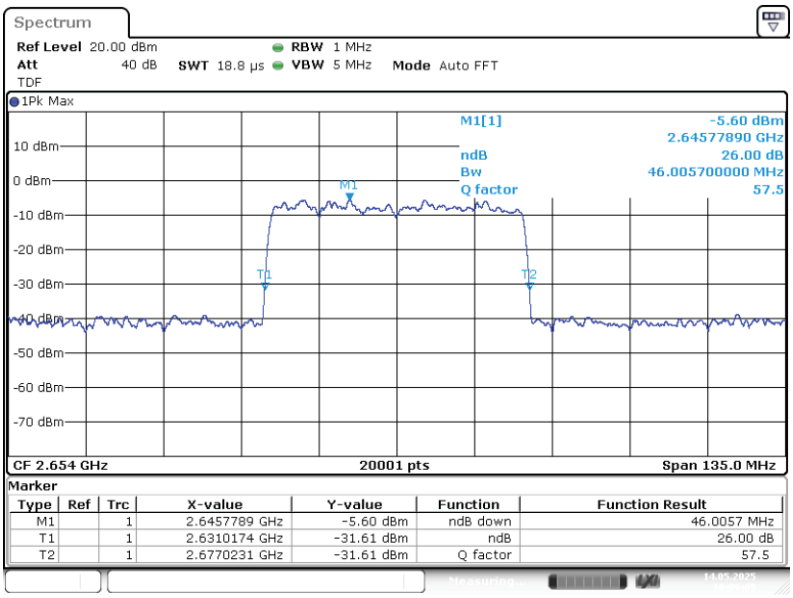
3.4 OCBw GSM In+3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: GSM; Output OCBw 3 dB > AGC



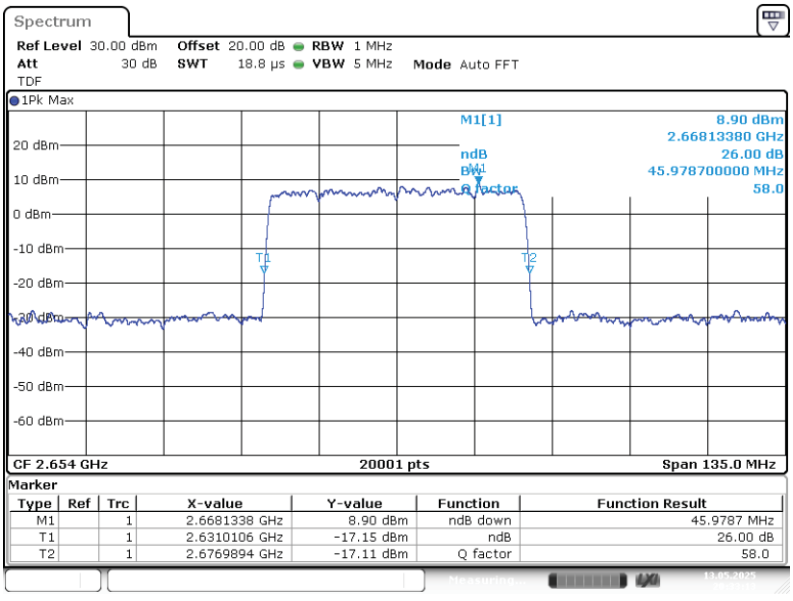
3.4 OCBw GSM Out +3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Input OCBw 0.3 dB < AGC



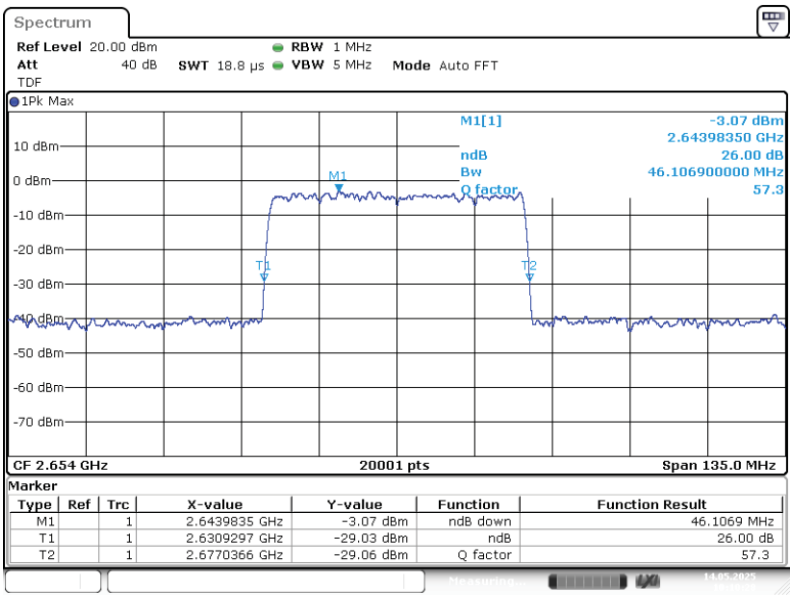
3.4 OCBw AWGN 45M In-0.3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Output OCBw 0.3 dB < AGC



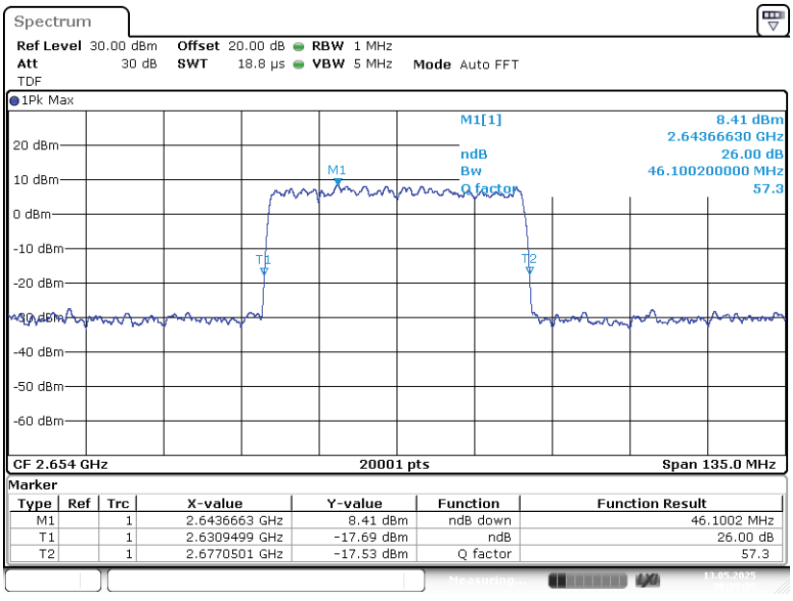
3.4 OCBw AWGN 45M Out -0.3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Input OCBw 3 dB > AGC



3.4 OCBw AWGN 45M In+3 2.6540G _26dB

Band: BRS UBS, Antenna 1; Frequency: 2.6540 GHz; Band edge: mid; Mod: AWGN 45M; Output OCBw 3 dB > AGC



3.4 OCBw AWGN 45M Out +3 2.6540G _26dB

5.2.5 TEST EQUIPMENT USED

- Conducted

5.3 CONDUCTED SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Standard FCC Part §2.1051, §27.53

The test was performed according to:
ANSI C63.26

Test date: 2025-05-09 – 2025-05-14

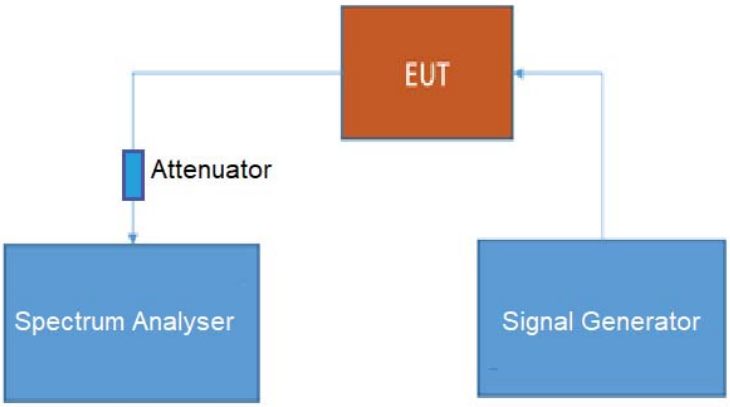
Environmental conditions: 24.0 °C; 26 % r. H., average values of all test dates

Test engineer: Thomas Hufnagel

5.3.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the occupied bandwith in comparison between the input and output signal of a bosster.

The EUT was connected to the test setup according to the following diagram:



The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

5.3.2 TEST REQUIREMENTS/LIMITS

Abstract from FCC Part 2:

FCC Part 2.1051; Measurement required: Spurious emissions at antenna terminal:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

Part 27; Miscellaneous Wireless Communication Services

Subpart C – Technical standards

§27.53 – Emission limits

Band 41 BRS (LBS/UBS)

(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.

(1) Prior to the transition, and thereafter, solely within the MBS, for analog operations with an EIRP in excess of −9 dBW, the signal shall be attenuated at the channel edges by at least 38 dB relative to the peak visual carrier, then linearly sloping from that level to at least 60 dB of attenuation at 1 MHz below the lower band edge and 0.5 MHz above the upper band edge, and attenuated at least 60 dB at all other frequencies.

(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.

Abstract from ISED RSS-199:

RSS-199; 5.6 Unwanted emission limits

Unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 MHz band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2% for subscriber equipment other than fixed subscriber equipment. Beyond this 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 4: Unwanted emission limits for fixed station, base station and fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (MHz)	Unwanted emission limits
≤ 1	-13 dBm/(1% of OB*)
> 1	-13 dBm/MHz

*OB is the occupied bandwidth

5.3.3 TEST PROTOCOL

General considerations concerning the limits:

The measuring bandwidth of 1 MHz was chosen according the test requirements exept at the band edges: At the band edges reducing of measurement bandwidth was necessary to prevent overlaying the RF-signal over the spurious emissions.
Also outside the Downlink frequency band at lower frequencies the measurement bandwidths were reduced to have the possibility to record the spurious emissions at these lower frequencies.

At frequencies were measuring bandwidths were reduced also the limit lines were reduced acoording the given formula:

$$p\ RBWreduced\ [dBm] = 10 * \log\left(\frac{RBWreduced\ [kHz]}{1000\ kHz}\right) + pRBW\ 1\ MHz[dBm]$$

Hereby "p" are the limit lines' values.

Band 41. BRS (LBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Wideband	0.00951	-79.0	RMS	1	-43.0	36.0
low	Wideband	0.12249	-71.3	RMS	10	-33.0	38.3
low	Wideband	949.5	-63.2	RMS	100	-23.0	40.2
low	Wideband	1600.0	-55.6	RMS	1000	-13.0	42.6
low	Wideband	2494.4	-61.9	RMS	100	-23.0	38.9
low	Wideband	2570.0	-50.8	RMS	100	-23.0	27.8
low	Wideband	2640.7	-48.7	RMS	1000	-13.0	35.7
low	Wideband	6883.1	-50.3	RMS	1000	-13.0	37.3
low	Wideband	19548.8	-51.6	RMS	1000	-13.0	38.6
low	Wideband	20294.7	-51.0	RMS	1000	-13.0	38.0
low	Wideband	30001.5	-51.7	RMS	1000	-13.0	38.7
low	Wideband	39998.8	-52.9	RMS	1000	-13.0	39.9
mid	Wideband	0.01480	-79.1	RMS	1	-43.0	36.1
mid	Wideband	0.15748	-71.7	RMS	10	-33.0	38.7
mid	Wideband	810.48480	-63.9	RMS	100	-23.0	40.9
mid	Wideband	1600.0	-56.1	RMS	1000	-13.0	43.1
mid	Wideband	2493.5	-65.3	RMS	100	-23.0	42.3
mid	Wideband	2570.0	-51.5	RMS	100	-23.0	28.5
mid	Wideband	2570.0	-51.5	RMS	100	-23.0	28.5
mid	Wideband	6879.1	-50.8	RMS	1000	-13.0	37.8
mid	Wideband	19986.8	-51.0	RMS	1000	-13.0	38.0
mid	Wideband	20017.7	-50.8	RMS	1000	-13.0	37.8
mid	Wideband	30301.5	-51.5	RMS	1000	-13.0	38.5
mid	Wideband	39966.3	-52.7	RMS	1000	-13.0	39.7
high	Wideband	0.01410	-79.0	RMS	1	-43.0	36.0
high	Wideband	0.20247	-72.9	RMS	10	-33.0	39.9
high	Wideband	951.27750	-63.1	RMS	100	-23.0	40.1
high	Wideband	1600.0	-56.3	RMS	1000	-13.0	43.3
high	Wideband	2490.1	-66.7	RMS	100	-23.0	43.7
high	Wideband	2882.2	-53.8	RMS	1000	-13.0	40.8
high	Wideband	6956.1	-50.8	RMS	1000	-13.0	37.8
high	Wideband	19859.3	-51.1	RMS	1000	-13.0	38.1
high	Wideband	20390.7	-51.0	RMS	1000	-13.0	38.0
high	Wideband	30270.0	-51.5	RMS	1000	-13.0	38.5
high	Wideband	39987.2	-52.8	RMS	1000	-13.0	39.8

Band 41. BRS (LBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Narrowband	0.01385	-81.4	RMS	1	-43.0	38.4
low	Narrowband	0.20247	-74.4	RMS	10	-33.0	41.4
low	Narrowband	812.5	-63.5	RMS	100	-23.0	40.5
low	Narrowband	1600.5	-55.4	RMS	1000	-13.0	42.4
low	Narrowband	2495.0	-65.2	RMS	100	-23.0	42.2
low	Narrowband	2570.0	-49.6	RMS	100	-23.0	26.6
low	Narrowband	2644.2	-44.1	RMS	1000	-13.0	31.1
low	Narrowband	6847.6	-50.7	RMS	1000	-13.0	37.7
low	Narrowband	19923.3	-51.1	RMS	1000	-13.0	38.1
low	Narrowband	20289.7	-50.9	RMS	1000	-13.0	37.9
low	Narrowband	30304.5	-51.3	RMS	1000	-13.0	38.3
low	Narrowband	39985.3	-52.9	RMS	1000	-13.0	39.9
mid	Narrowband	0.01287	-80.4	RMS	1	-43.0	37.4
mid	Narrowband	0.15748	-74.2	RMS	10	-33.0	41.2
mid	Narrowband	708.2	-64.0	RMS	100	-23.0	41.0
mid	Narrowband	1807.0	-56.0	RMS	1000	-13.0	43.0
mid	Narrowband	2494.0	-61.4	RMS	100	-23.0	38.4
mid	Narrowband	2570.0	-49.8	RMS	100	-23.0	26.8
mid	Narrowband	2608.2	-47.1	RMS	1000	-13.0	34.1
mid	Narrowband	6971.1	-50.7	RMS	1000	-13.0	37.7
mid	Narrowband	19989.3	-50.8	RMS	1000	-13.0	37.8
mid	Narrowband	20307.2	-50.7	RMS	1000	-13.0	37.7
mid	Narrowband	30279.5	-51.5	RMS	1000	-13.0	38.5
mid	Narrowband	39997.3	-52.3	RMS	1000	-13.0	39.3
high	Narrowband	0.01066	-81.1	RMS	1	-43.0	38.1
high	Narrowband	0.14248	-74.1	RMS	10	-33.0	41.1
high	Narrowband	951.3	-63.1	RMS	100	-23.0	40.1
high	Narrowband	1600.5	-56.5	RMS	1000	-13.0	43.5
high	Narrowband	2489.5	-66.5	RMS	100	-23.0	43.5
high	Narrowband	2570.0	-46.6	RMS	100	-23.0	23.6
high	Narrowband	4978.8	-53.6	RMS	1000	-13.0	40.6
high	Narrowband	6789.1	-50.5	RMS	1000	-13.0	37.5
high	Narrowband	19559.3	-50.9	RMS	1000	-13.0	37.9
high	Narrowband	20295.2	-50.7	RMS	1000	-13.0	37.7
high	Narrowband	30325.0	-51.2	RMS	1000	-13.0	38.2
high	Narrowband	39985.8	-52.7	RMS	1000	-13.0	39.7

Band 41. BRS (LBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Wideband 5G	0.01430	-81.3	RMS	1	-43.0	38.3
low	Wideband 5G	0.20247	-72.7	RMS	10	-33.0	39.7
low	Wideband 5G	951.0	-64.1	RMS	100	-23.0	41.1
low	Wideband 5G	1600.0	-56.0	RMS	1000	-13.0	43.0
low	Wideband 5G	2493.9	-64.7	RMS	100	-23.0	41.7
low	Wideband 5G	2570.0	-50.1	RMS	100	-23.0	27.1
low	Wideband 5G	4337.4	-53.7	RMS	1000	-13.0	40.7
low	Wideband 5G	6962.6	-50.9	RMS	1000	-13.0	37.9
low	Wideband 5G	19993.2	-51.0	RMS	1000	-13.0	38.0
low	Wideband 5G	20295.7	-51.1	RMS	1000	-13.0	38.1
low	Wideband 5G	30005.0	-51.7	RMS	1000	-13.0	38.7
low	Wideband 5G	39954.8	-53.2	RMS	1000	-13.0	40.2
mid	Wideband 5G	0.01222	-81.0	RMS	1	-43.0	38.0
mid	Wideband 5G	0.15748	-74.9	RMS	10	-33.0	41.9
mid	Wideband 5G	951.0	-63.7	RMS	100	-23.0	40.7
mid	Wideband 5G	1600.5	-55.2	RMS	1000	-13.0	42.2
mid	Wideband 5G	2488.9	-65.7	RMS	100	-23.0	42.7
mid	Wideband 5G	2570.0	-50.3	RMS	100	-23.0	27.3
mid	Wideband 5G	4774.8	-53.8	RMS	1000	-13.0	40.8
mid	Wideband 5G	6824.6	-50.5	RMS	1000	-13.0	37.5
mid	Wideband 5G	19546.3	-51.3	RMS	1000	-13.0	38.3
mid	Wideband 5G	20347.2	-50.7	RMS	1000	-13.0	37.7
mid	Wideband 5G	30283.0	-51.6	RMS	1000	-13.0	38.6
mid	Wideband 5G	39994.2	-52.8	RMS	1000	-13.0	39.8
high	Wideband 5G	0.00910	-79.8	RMS	1	-43.0	36.8
high	Wideband 5G	0.09749	-73.6	RMS	10	-33.0	40.6
high	Wideband 5G	814.5	-64.2	RMS	100	-23.0	41.2
high	Wideband 5G	1600.0	-56.2	RMS	1000	-13.0	43.2
high	Wideband 5G	2487.0	-66.5	RMS	100	-23.0	43.5
high	Wideband 5G	2570.0	-53.7	RMS	100	-23.0	30.7
high	Wideband 5G	4989.3	-53.7	RMS	1000	-13.0	40.7
high	Wideband 5G	6854.1	-51.0	RMS	1000	-13.0	38.0
high	Wideband 5G	19557.3	-50.8	RMS	1000	-13.0	37.8
high	Wideband 5G	20277.7	-50.9	RMS	1000	-13.0	37.9
high	Wideband 5G	30315.5	-51.3	RMS	1000	-13.0	38.3
high	Wideband 5G	39968.3	-52.9	RMS	1000	-13.0	39.9

Band 41. BRS (MBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Wideband	0.00902	-79.3	RMS	1	-43.0	36.3
low	Wideband	0.05250	-72.0	RMS	10	-33.0	39.0
low	Wideband	952.1	-63.5	RMS	100	-23.0	40.5
low	Wideband	1600.6	-55.1	RMS	1000	-13.0	42.1
low	Wideband	2570.8	-61.1	RMS	100	-23.0	38.1
low	Wideband	2655.7	-52.8	RMS	1000	-13.0	39.8
low	Wideband	6960.6	-50.9	RMS	1000	-13.0	37.9
low	Wideband	17874.9	-51.4	RMS	1000	-13.0	38.4
low	Wideband	20283.7	-50.8	RMS	1000	-13.0	37.8
low	Wideband	30300.0	-50.7	RMS	1000	-13.0	37.7
low	Wideband	39965.3	-52.8	RMS	1000	-13.0	39.8
mid	Wideband	0.00943	-79.7	RMS	1	-43.0	36.7
mid	Wideband	0.12749	-71.7	RMS	10	-33.0	38.7
mid	Wideband	948.3	-64.0	RMS	100	-23.0	41.0
mid	Wideband	1902.0	-56.7	RMS	1000	-13.0	43.7
mid	Wideband	2570.8	-63.6	RMS	100	-23.0	40.6
mid	Wideband	4251.4	-53.9	RMS	1000	-13.0	40.9
mid	Wideband	6927.6	-50.8	RMS	1000	-13.0	37.8
mid	Wideband	19981.3	-51.1	RMS	1000	-13.0	38.1
mid	Wideband	20297.7	-50.8	RMS	1000	-13.0	37.8
mid	Wideband	31036.4	-51.6	RMS	1000	-13.0	38.6
mid	Wideband	39995.2	-52.5	RMS	1000	-13.0	39.5
high	Wideband	0.01672	-79.7	RMS	1	-43.0	36.7
high	Wideband	0.13749	-72.0	RMS	10	-33.0	39.0
high	Wideband	948.9	-63.5	RMS	100	-23.0	40.5
high	Wideband	1600.1	-55.4	RMS	1000	-13.0	42.4
high	Wideband	2563.7	-64.5	RMS	100	-23.0	41.5
high	Wideband	2615.0	-49.7	RMS	100	-23.0	26.7
high	Wideband	4992.3	-53.9	RMS	1000	-13.0	40.9
high	Wideband	6825.1	-51.1	RMS	1000	-13.0	38.1
high	Wideband	19523.3	-51.2	RMS	1000	-13.0	38.2
high	Wideband	20285.7	-51.0	RMS	1000	-13.0	38.0
high	Wideband	30346.5	-51.2	RMS	1000	-13.0	38.2
high	Wideband	39970.3	-53.0	RMS	1000	-13.0	40.0

Band 41. BRS (MBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Narrowband	0.00902	-81.0	RMS	1	-43.0	38.0
low	Narrowband	0.08249	-74.7	RMS	10	-33.0	41.7
low	Narrowband	953.6	-64.3	RMS	100	-23.0	41.3
low	Narrowband	2529.8	-56.2	RMS	1000	-13.0	43.2
low	Narrowband	2570.9	-60.2	RMS	100	-23.0	37.2
low	Narrowband	2658.2	-49.6	RMS	1000	-13.0	36.6
low	Narrowband	6907.1	-50.5	RMS	1000	-13.0	37.5
low	Narrowband	19978.8	-51.2	RMS	1000	-13.0	38.2
low	Narrowband	20310.7	-50.5	RMS	1000	-13.0	37.5
low	Narrowband	30308.5	-51.1	RMS	1000	-13.0	38.1
low	Narrowband	39985.3	-52.3	RMS	1000	-13.0	39.3
mid	Narrowband	0.01267	-80.2	RMS	1	-43.0	37.2
mid	Narrowband	0.05250	-74.8	RMS	10	-33.0	41.8
mid	Narrowband	811.58470	-64.4	RMS	100	-23.0	41.4
mid	Narrowband	1713.5	-56.2	RMS	1000	-13.0	43.2
mid	Narrowband	2571.0	-60.8	RMS	100	-23.0	37.8
mid	Narrowband	2615.0	-55.1	RMS	100	-23.0	32.1
mid	Narrowband	2637.2	-51.0	RMS	1000	-13.0	38.0
mid	Narrowband	6946.6	-50.5	RMS	1000	-13.0	37.5
mid	Narrowband	19530.3	-50.7	RMS	1000	-13.0	37.7
mid	Narrowband	20330.7	-50.3	RMS	1000	-13.0	37.3
mid	Narrowband	30012.5	-51.4	RMS	1000	-13.0	38.4
mid	Narrowband	39980.3	-52.3	RMS	1000	-13.0	39.3
high	Narrowband	0.01357	-81.3	RMS	1	-43.0	38.3
high	Narrowband	0.06250	-74.6	RMS	10	-33.0	41.6
high	Narrowband	950.3	-63.7	RMS	100	-23.0	40.7
high	Narrowband	2130.4	-55.7	RMS	1000	-13.0	42.7
high	Narrowband	2564.8	-64.8	RMS	100	-23.0	41.8
high	Narrowband	4315.9	-53.9	RMS	1000	-13.0	40.9
high	Narrowband	6938.1	-50.9	RMS	1000	-13.0	37.9
high	Narrowband	19554.3	-51.2	RMS	1000	-13.0	38.2
high	Narrowband	20289.7	-50.7	RMS	1000	-13.0	37.7
high	Narrowband	30271.0	-51.2	RMS	1000	-13.0	38.2
high	Narrowband	39966.8	-52.7	RMS	1000	-13.0	39.7

Band 41. BRS (MBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Wideband 5G	0.00902	-79.9	RMS	1	-43.0	36.9
low	Wideband 5G	0.07250	-74.5	RMS	10	-33.0	41.5
low	Wideband 5G	950.7	-64.0	RMS	100	-23.0	41.0
low	Wideband 5G	1600.6	-56.1	RMS	1000	-13.0	43.1
low	Wideband 5G	2563.6	-63.8	RMS	100	-23.0	40.8
low	Wideband 5G	4288.9	-53.7	RMS	1000	-13.0	40.7
low	Wideband 5G	6884.6	-50.5	RMS	1000	-13.0	37.5
low	Wideband 5G	19544.8	-50.6	RMS	1000	-13.0	37.6
low	Wideband 5G	20298.2	-50.7	RMS	1000	-13.0	37.7
low	Wideband 5G	30738.9	-51.5	RMS	1000	-13.0	38.5
low	Wideband 5G	39987.7	-52.2	RMS	1000	-13.0	39.2
mid	Wideband 5G	0.01287	-80.0	RMS	1	-43.0	37.0
mid	Wideband 5G	0.05750	-74.4	RMS	10	-33.0	41.4
mid	Wideband 5G	949.9	-64.0	RMS	100	-23.0	41.0
mid	Wideband 5G	1600.1	-54.9	RMS	1000	-13.0	41.9
mid	Wideband 5G	2570.9	-64.1	RMS	100	-23.0	41.1
mid	Wideband 5G	4989.3	-54.1	RMS	1000	-13.0	41.1
mid	Wideband 5G	6877.1	-50.9	RMS	1000	-13.0	37.9
mid	Wideband 5G	19998.3	-50.7	RMS	1000	-13.0	37.7
mid	Wideband 5G	20286.2	-50.8	RMS	1000	-13.0	37.8
mid	Wideband 5G	30337.0	-51.5	RMS	1000	-13.0	38.5
mid	Wideband 5G	39978.3	-52.9	RMS	1000	-13.0	39.9
high	Wideband 5G	0.00968	-81.2	RMS	1	-43.0	38.2
high	Wideband 5G	0.15248	-74.4	RMS	10	-33.0	41.4
high	Wideband 5G	792.9	-62.8	RMS	100	-23.0	39.8
high	Wideband 5G	1600.6	-56.1	RMS	1000	-13.0	43.1
high	Wideband 5G	2570.9	-65.0	RMS	100	-23.0	42.0
high	Wideband 5G	2615.0	-54.5	RMS	100	-23.0	31.5
high	Wideband 5G	4222.9	-53.8	RMS	1000	-13.0	40.8
high	Wideband 5G	6908.6	-50.7	RMS	1000	-13.0	37.7
high	Wideband 5G	19530.8	-51.1	RMS	1000	-13.0	38.1
high	Wideband 5G	20314.7	-50.8	RMS	1000	-13.0	37.8
high	Wideband 5G	30008.5	-51.4	RMS	1000	-13.0	38.4
high	Wideband 5G	39979.2	-52.5	RMS	1000	-13.0	39.5

Band 41. BRS (UBS). downlink

Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Wideband	0.01430	-79.1	RMS	1	-43.0	36.1
low	Wideband	0.05750	-72.0	RMS	10	-33.0	39.0
low	Wideband	950.7	-63.2	RMS	100	-23.0	40.2
low	Wideband	1732.0	-55.7	RMS	1000	-13.0	42.7
low	Wideband	2616.9	-61.9	RMS	100	-23.0	38.9
low	Wideband	2691.7	-66.4	RMS	100	-23.0	43.4
low	Wideband	2761.2	-32.5	RMS	1000	-13.0	19.5
low	Wideband	6908.1	-50.4	RMS	1000	-13.0	37.4
low	Wideband	19988.8	-51.0	RMS	1000	-13.0	38.0
low	Wideband	20297.7	-50.2	RMS	1000	-13.0	37.2
low	Wideband	30293.0	-51.5	RMS	1000	-13.0	38.5
low	Wideband	39998.3	-52.2	RMS	1000	-13.0	39.2
mid	Wideband	0.00943	-79.5	RMS	1	-43.0	36.5
mid	Wideband	0.06250	-71.3	RMS	10	-33.0	38.3
mid	Wideband	948.8	-63.4	RMS	100	-23.0	40.4
mid	Wideband	1600.6	-55.1	RMS	1000	-13.0	42.1
mid	Wideband	2611.6	-66.2	RMS	100	-23.0	43.2
mid	Wideband	2696.9	-65.8	RMS	100	-23.0	42.8
mid	Wideband	2726.7	-35.9	RMS	1000	-13.0	22.9
mid	Wideband	6809.6	-50.6	RMS	1000	-13.0	37.6
mid	Wideband	19567.3	-51.3	RMS	1000	-13.0	38.3
mid	Wideband	20327.7	-50.2	RMS	1000	-13.0	37.2
mid	Wideband	30320.5	-51.1	RMS	1000	-13.0	38.1
mid	Wideband	39967.8	-52.5	RMS	1000	-13.0	39.5
high	Wideband	0.01508	-80.1	RMS	1	-43.0	37.1
high	Wideband	0.21747	-73.0	RMS	10	-33.0	40.0
high	Wideband	795.3	-64.0	RMS	100	-23.0	41.0
high	Wideband	1600.6	-55.3	RMS	1000	-13.0	42.3
high	Wideband	2613.1	-66.4	RMS	100	-23.0	43.4
high	Wideband	2692.9	-50.3	RMS	100	-23.0	27.3
high	Wideband	4299.4	-53.7	RMS	1000	-13.0	40.7
high	Wideband	6908.1	-50.7	RMS	1000	-13.0	37.7
high	Wideband	19539.8	-50.9	RMS	1000	-13.0	37.9
high	Wideband	20322.2	-50.7	RMS	1000	-13.0	37.7
high	Wideband	30302.5	-51.3	RMS	1000	-13.0	38.3
high	Wideband	39987.2	-52.5	RMS	1000	-13.0	39.5

Band 41. BRS (UBS). downlink

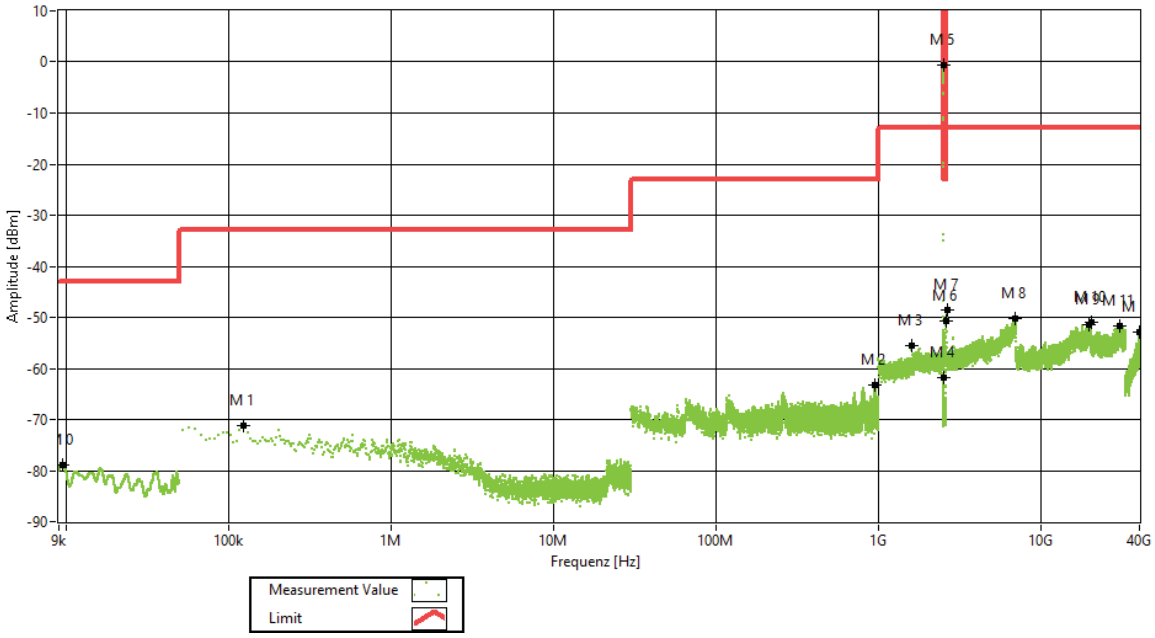
Test Frequency	Signal Type	Spurious Freq. [MHz]	Spurious Level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
low	Narrowband	0.01222	-80.6	RMS	1	-43.0	37.6
low	Narrowband	0.14748	-75.0	RMS	10	-33.0	42.0
low	Narrowband	949.1	-64.3	RMS	100	-23.0	41.3
low	Narrowband	1782.0	-55.8	RMS	1000	-13.0	42.8
low	Narrowband	2616.9	-63.3	RMS	100	-23.0	40.3
low	Narrowband	2696.5	-66.2	RMS	100	-23.0	43.2
low	Narrowband	2762.2	-28.0	RMS	1000	-13.0	15.0
low	Narrowband	6848.1	-50.7	RMS	1000	-13.0	37.7
low	Narrowband	19511.8	-51.3	RMS	1000	-13.0	38.3
low	Narrowband	20312.7	-49.9	RMS	1000	-13.0	36.9
low	Narrowband	30305.5	-51.0	RMS	1000	-13.0	38.0
low	Narrowband	39953.3	-52.9	RMS	1000	-13.0	39.9
mid	Narrowband	0.01029	-80.9	RMS	1	-43.0	37.9
mid	Narrowband	0.07250	-74.7	RMS	10	-33.0	41.7
mid	Narrowband	948.4	-64.3	RMS	100	-23.0	41.3
mid	Narrowband	1600.6	-55.6	RMS	1000	-13.0	42.6
mid	Narrowband	2609.3	-66.5	RMS	100	-23.0	43.5
mid	Narrowband	2694.2	-66.5	RMS	100	-23.0	43.5
mid	Narrowband	2726.2	-30.3	RMS	1000	-13.0	17.3
mid	Narrowband	6879.6	-50.7	RMS	1000	-13.0	37.7
mid	Narrowband	19986.2	-50.9	RMS	1000	-13.0	37.9
mid	Narrowband	20270.2	-50.8	RMS	1000	-13.0	37.8
mid	Narrowband	30301.0	-51.8	RMS	1000	-13.0	38.8
mid	Narrowband	39977.3	-52.7	RMS	1000	-13.0	39.7
high	Narrowband	0.00992	-79.9	RMS	1	-43.0	36.9
high	Narrowband	0.08749	-74.9	RMS	10	-33.0	41.9
high	Narrowband	949.3	-63.4	RMS	100	-23.0	40.4
high	Narrowband	1600.6	-54.6	RMS	1000	-13.0	41.6
high	Narrowband	2615.0	-66.2	RMS	100	-23.0	43.2
high	Narrowband	2691.4	-61.9	RMS	100	-23.0	38.9
high	Narrowband	4984.8	-53.7	RMS	1000	-13.0	40.7
high	Narrowband	6870.6	-50.8	RMS	1000	-13.0	37.8
high	Narrowband	19534.3	-50.9	RMS	1000	-13.0	37.9
high	Narrowband	20318.7	-50.7	RMS	1000	-13.0	37.7
high	Narrowband	30300.5	-51.3	RMS	1000	-13.0	38.3
high	Narrowband	39981.3	-52.8	RMS	1000	-13.0	39.8

Band 41. BRS (UBS). downlink							
Test Frequency	**Signal Type**	**Spurious Freq. [MHz]**	**Spurious Level [dBm]**	**Detector**	**RBW [kHz]**	**Limit [dBm]**	**Margin to Limit [dB]**
low	Wideband 5G	0.01287	-80.8	RMS	1	-43.0	37.8
low	Wideband 5G	0.15248	-74.7	RMS	10	-33.0	41.7
low	Wideband 5G	952.9	-63.6	RMS	100	-23.0	40.6
low	Wideband 5G	1600.6	-55.7	RMS	1000	-13.0	42.7
low	Wideband 5G	2609.7	-64.6	RMS	100	-23.0	41.6
low	Wideband 5G	2692.8	-66.0	RMS	100	-23.0	43.0
low	Wideband 5G	2754.7	-43.0	RMS	1000	-13.0	30.0
low	Wideband 5G	6881.1	-50.5	RMS	1000	-13.0	37.5
low	Wideband 5G	19982.8	-50.6	RMS	1000	-13.0	37.6
low	Wideband 5G	20339.2	-50.3	RMS	1000	-13.0	37.3
low	Wideband 5G	30011.0	-51.5	RMS	1000	-13.0	38.5
low	Wideband 5G	39997.8	-52.2	RMS	1000	-13.0	39.2
mid	Wideband 5G	0.01082	-79.6	RMS	1	-43.0	36.6
mid	Wideband 5G	0.05250	-74.2	RMS	10	-33.0	41.2
mid	Wideband 5G	952.6	-63.4	RMS	100	-23.0	40.4
mid	Wideband 5G	1600.6	-55.5	RMS	1000	-13.0	42.5
mid	Wideband 5G	2610.3	-65.0	RMS	100	-23.0	42.0
mid	Wideband 5G	2692.1	-65.8	RMS	100	-23.0	42.8
mid	Wideband 5G	2739.2	-44.3	RMS	1000	-13.0	31.3
mid	Wideband 5G	6882.6	-50.8	RMS	1000	-13.0	37.8
mid	Wideband 5G	19936.3	-51.5	RMS	1000	-13.0	38.5
mid	Wideband 5G	20300.2	-50.4	RMS	1000	-13.0	37.4
mid	Wideband 5G	30316.5	-51.5	RMS	1000	-13.0	38.5
mid	Wideband 5G	39980.8	-52.7	RMS	1000	-13.0	39.7
high	Wideband 5G	0.00992	-80.1	RMS	1	-43.0	37.1
high	Wideband 5G	0.14748	-74.6	RMS	10	-33.0	41.6
high	Wideband 5G	810.5	-63.7	RMS	100	-23.0	40.7
high	Wideband 5G	1698.0	-56.1	RMS	1000	-13.0	43.1
high	Wideband 5G	2614.1	-66.2	RMS	100	-23.0	43.2
high	Wideband 5G	2698.7	-59.0	RMS	100	-23.0	36.0
high	Wideband 5G	2728.2	-44.7	RMS	1000	-13.0	31.7
high	Wideband 5G	6811.6	-50.8	RMS	1000	-13.0	37.8
high	Wideband 5G	19564.3	-50.7	RMS	1000	-13.0	37.7
high	Wideband 5G	20291.7	-50.6	RMS	1000	-13.0	37.6
high	Wideband 5G	30297.5	-51.1	RMS	1000	-13.0	38.1
high	Wideband 5G	39975.8	-52.6	RMS	1000	-13.0	39.6

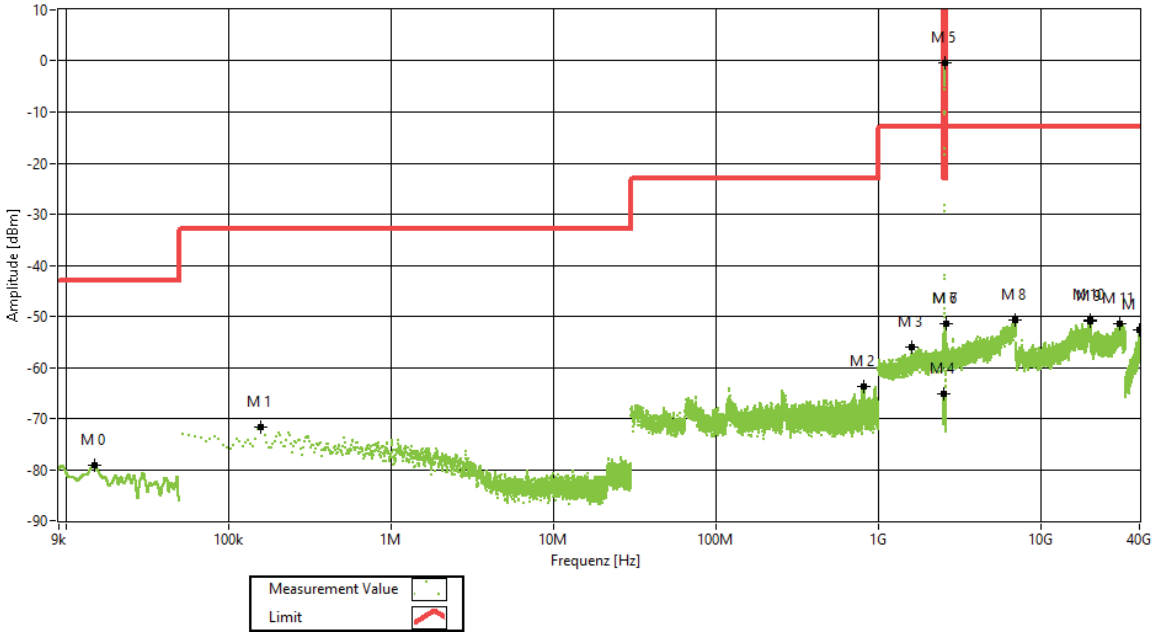
Remark: Please see next sub-clause for the measurement plot.

5.3.4 MEASUREMENT PLOT

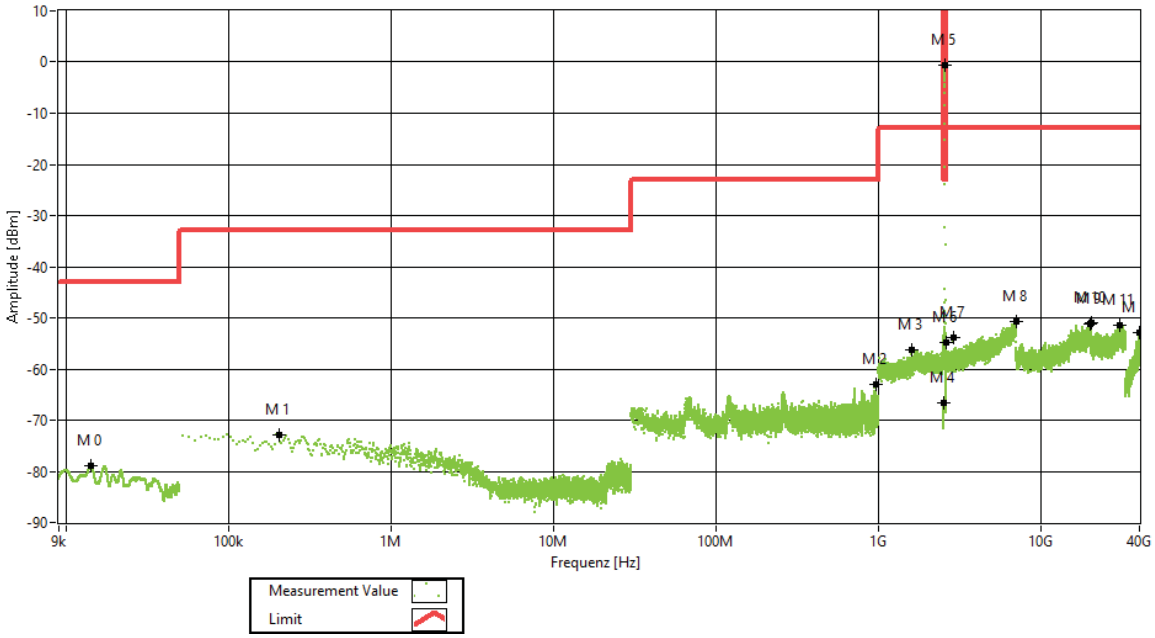
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = low,
Direction = RF downlink, Signal type = AWGN



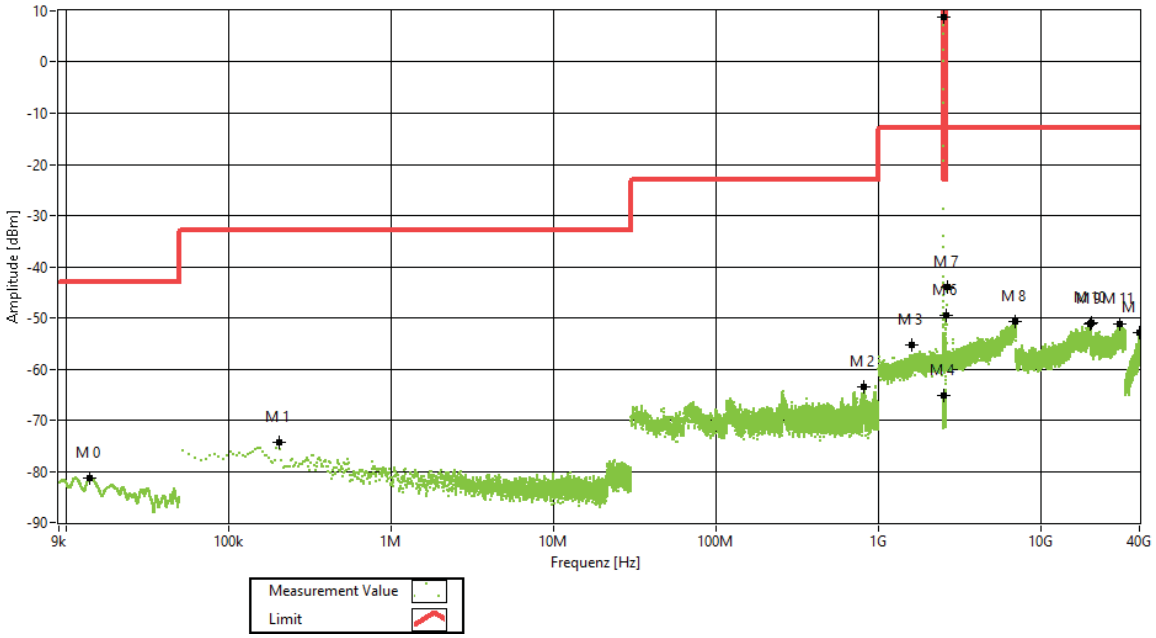
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = mid,
Direction = RF downlink, Signal type = AWGN



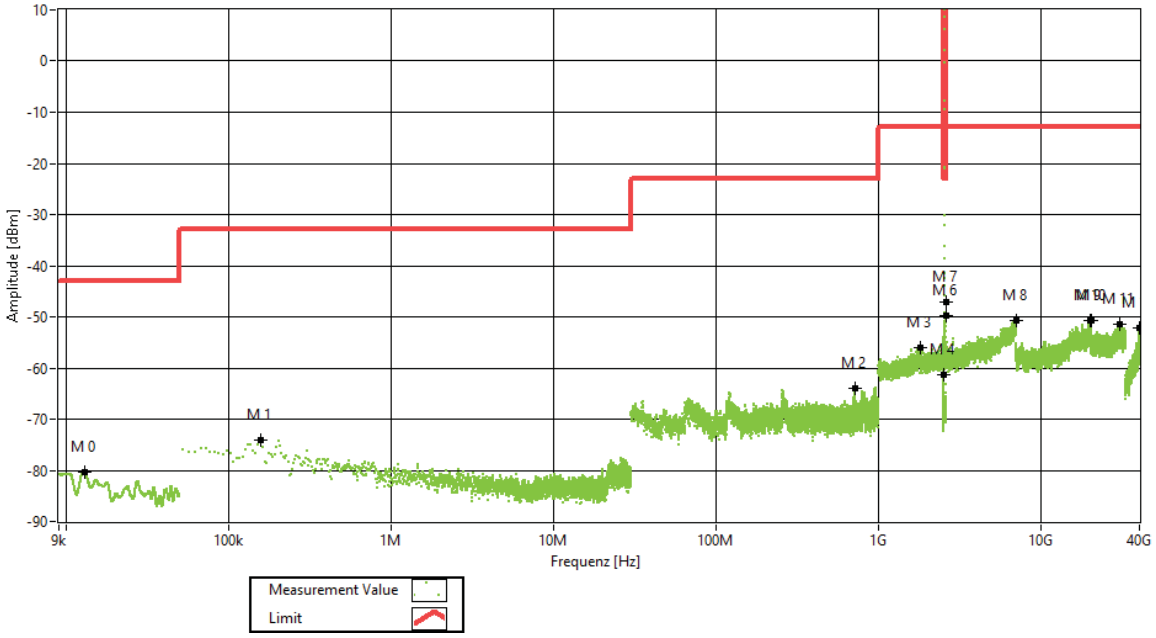
Frequency band = Band 41 BRS (LBS), Antenna 1,Test frequency = high,
Direction = RF downlink, Signal type = AWGN



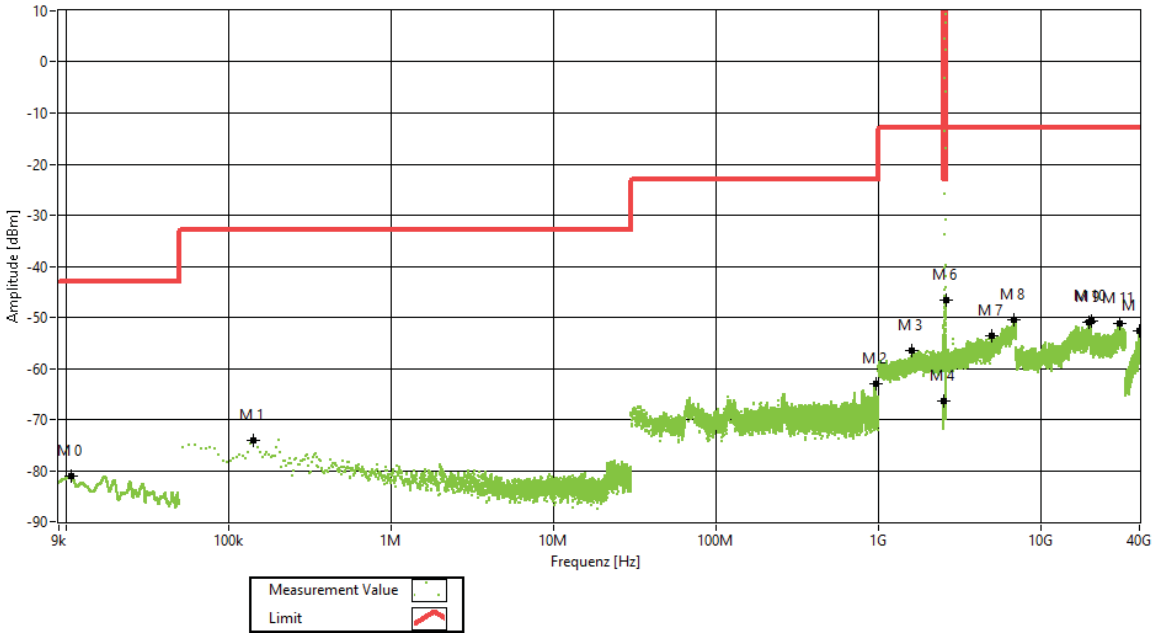
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = low,
Direction = RF downlink, Signal type = Narrowband



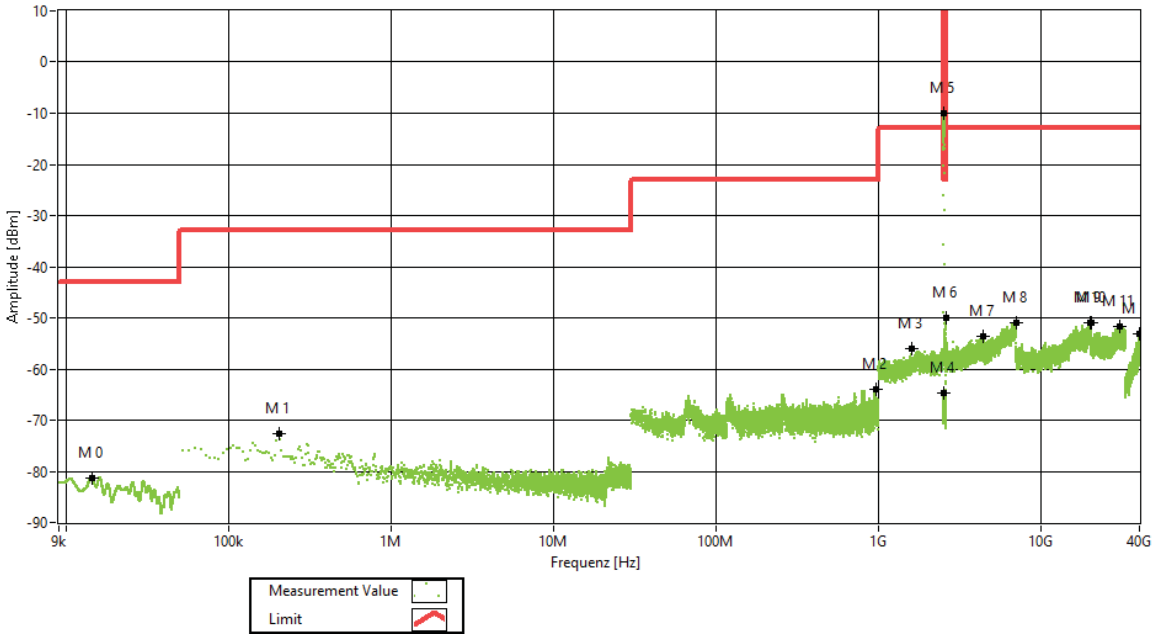
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = mid,
Direction = RF downlink, Signal type = Narrowband



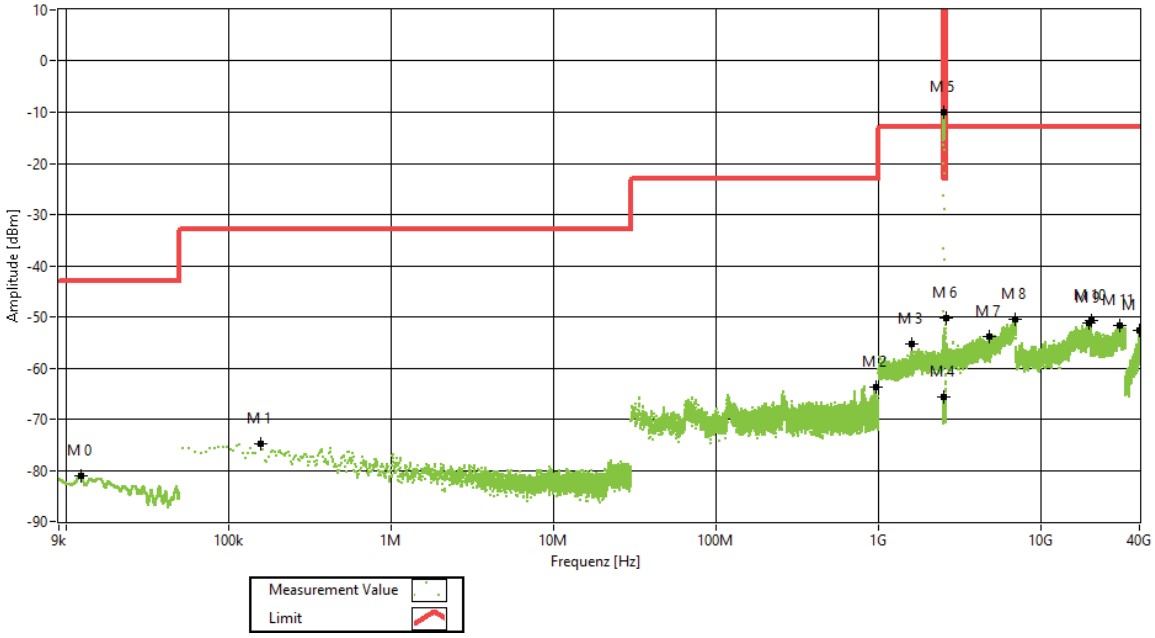
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = high,
Direction = RF downlink, Signal type = Narrowband



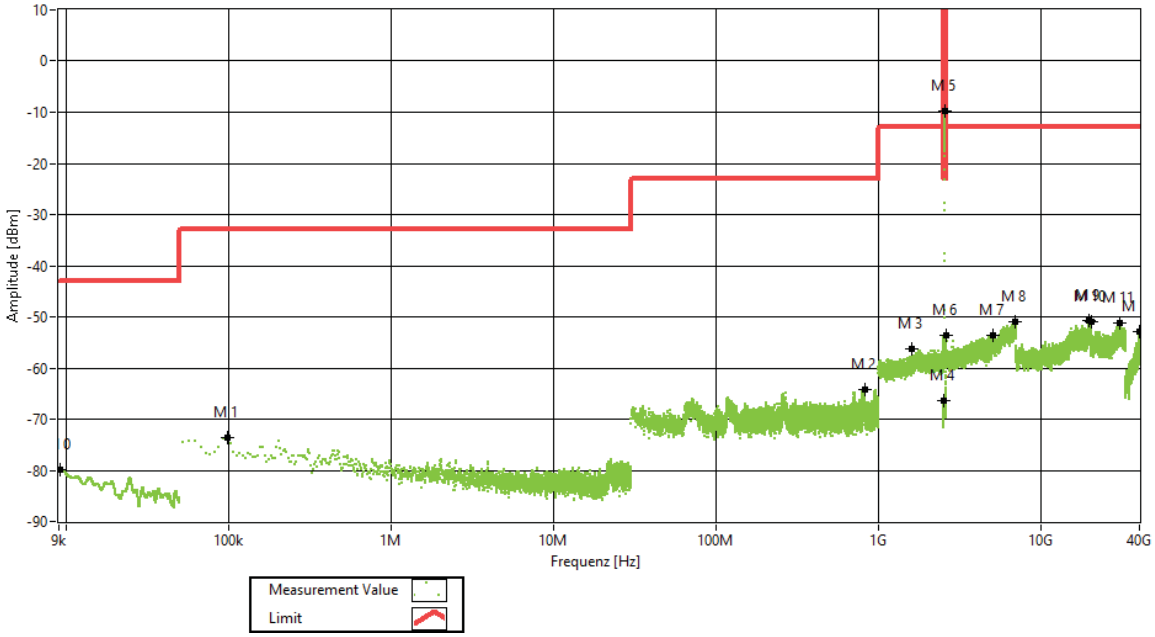
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = low,
Direction = RF downlink, Signal type = AWGN 45M



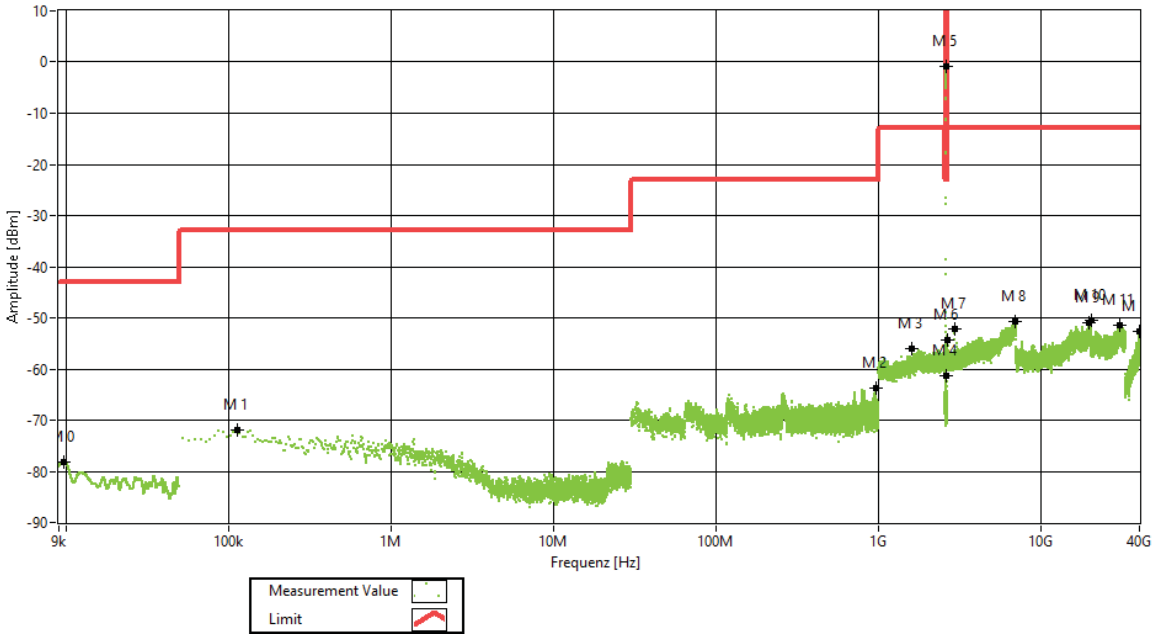
Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = mid,
Direction = RF downlink, Signal type = AWGN 45M



Frequency band = Band 41 BRS (LBS), Antenna 1, Test frequency = high,
Direction = RF downlink, Signal type = AWGN 45M



Frequency band = Band 41 BRS (MBS), Antenna 1, Test frequency = low,
Direction = RF downlink, Signal type = AWGN



Frequency band = Band 41 BRS (MBS), Antenna 1, Test frequency = mid,
Direction = RF downlink, Signal type = AWGN