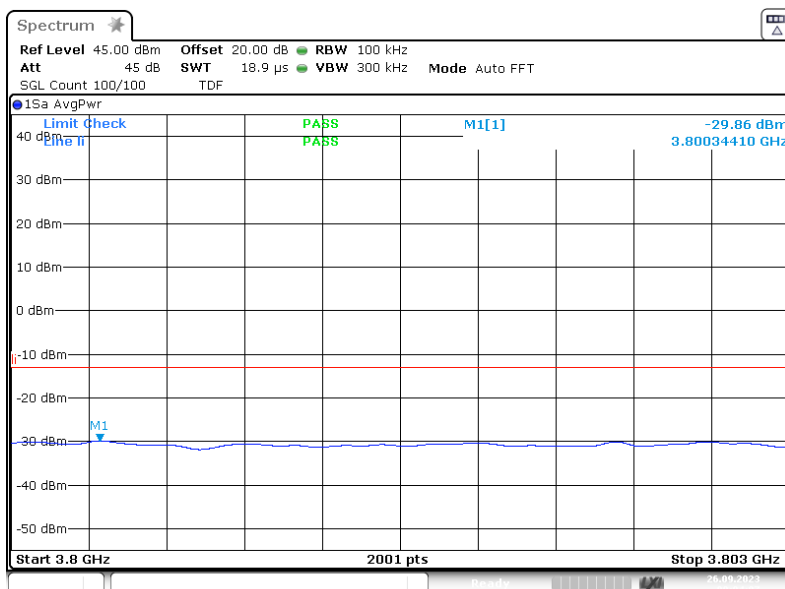




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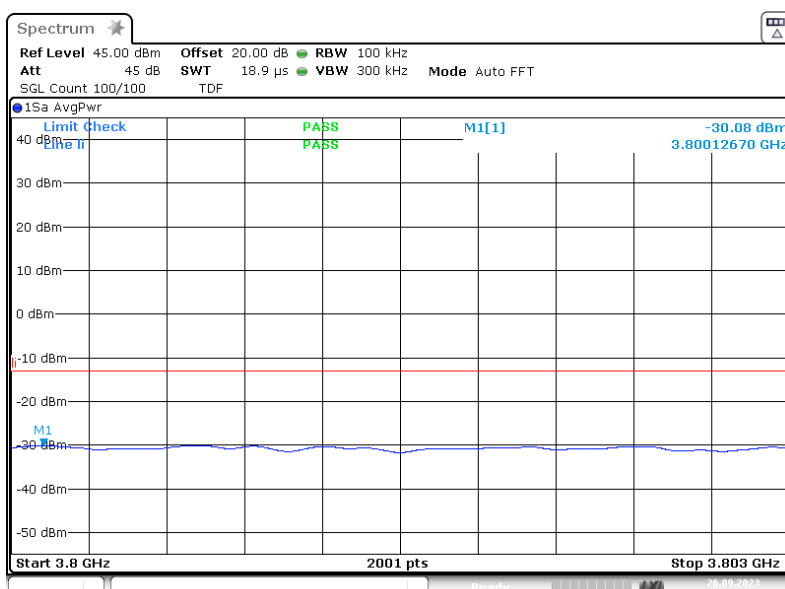
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: AWGN100; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C low A2 AWGN100 upper 1carrier -
0.3 dB 3.800G 3.803G

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: AWGN100; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C low A2 AWGN100 upper 1carrier +
3.0 dB 3.800G 3.803G

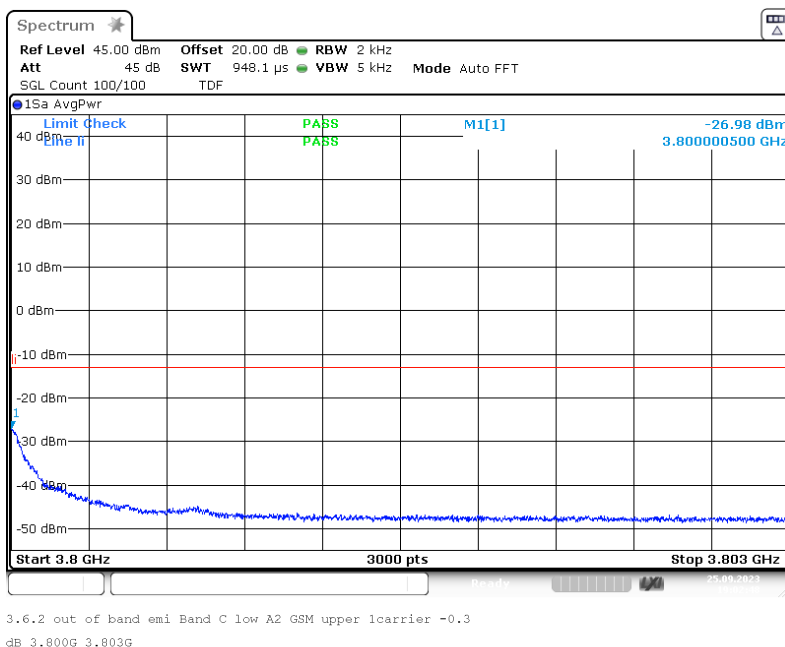
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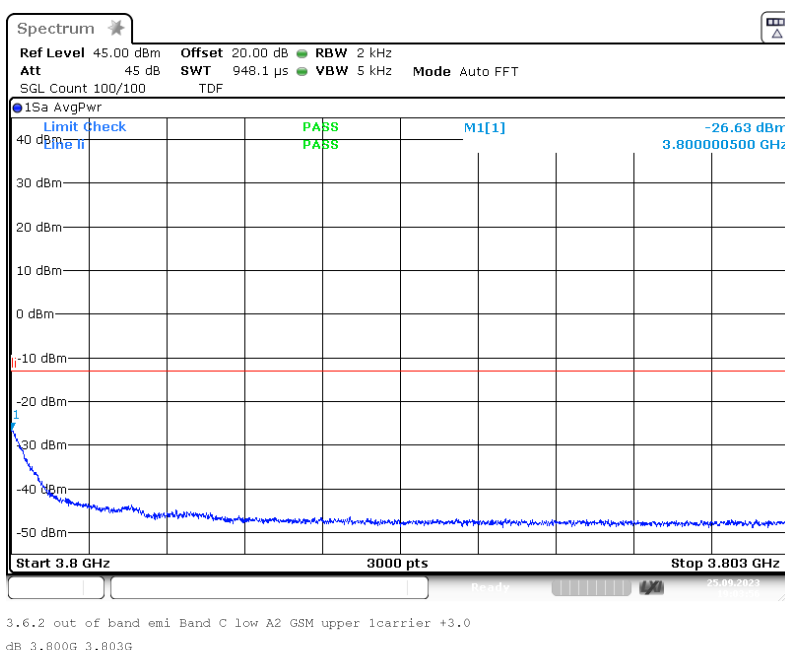
EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 1



Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 1



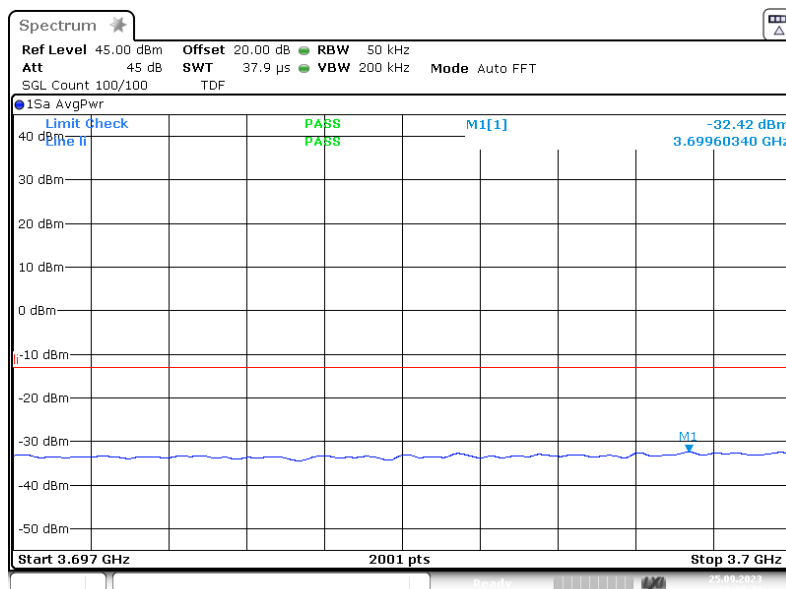
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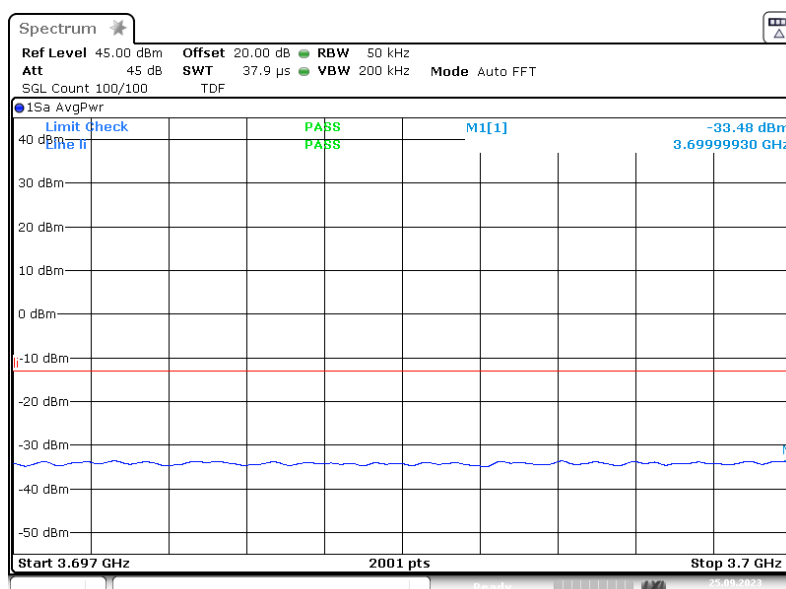
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C low A2 AWGN lower lcarrier -0.3
dB 3.697G 3.700G

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C low A2 AWGN lower lcarrier +3.0
dB 3.697G 3.700G

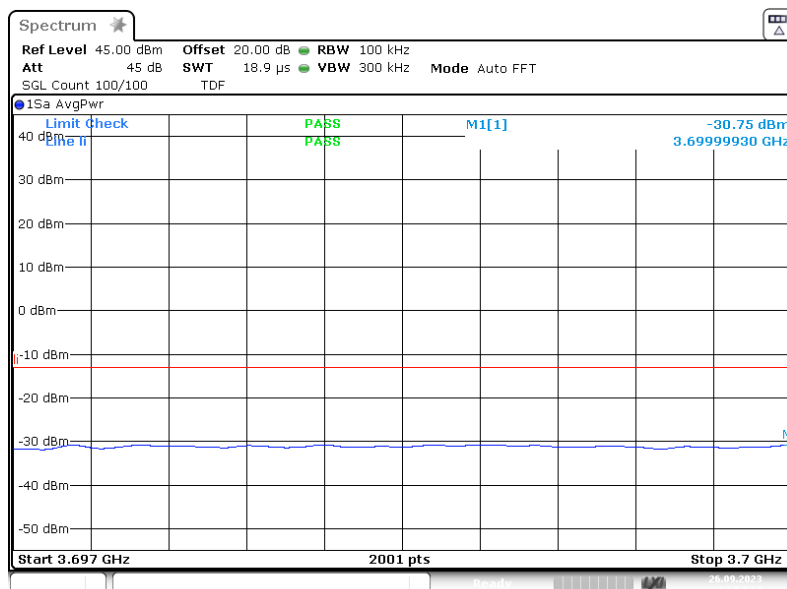
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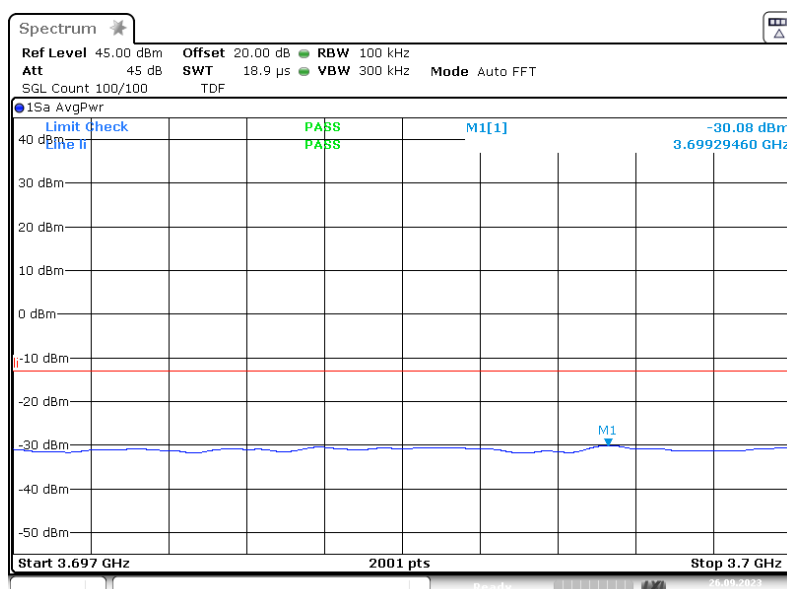
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: AWGN100; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C low A2 AWGN100 lower lcarrier -
0.3 dB 3.697G 3.700G

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: AWGN100; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C low A2 AWGN100 lower lcarrier +
3.0 dB 3.697G 3.700G

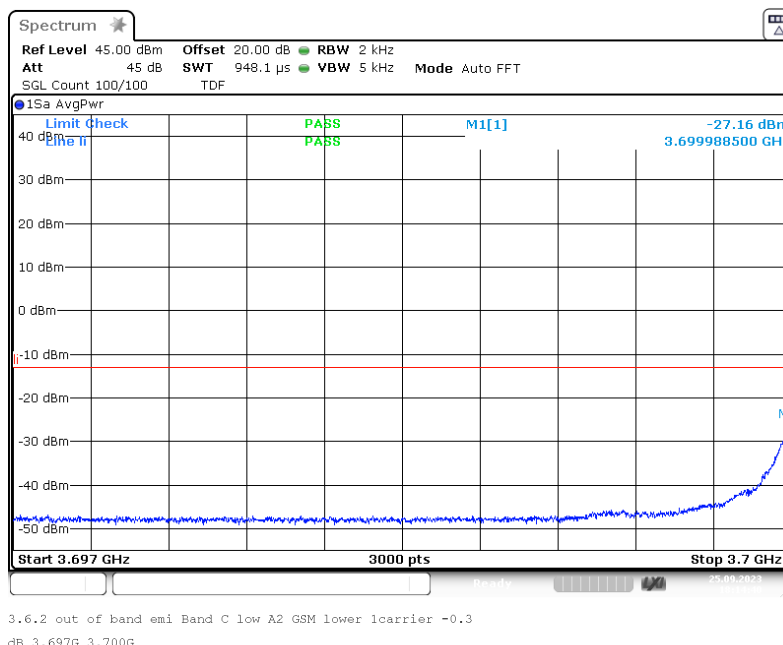
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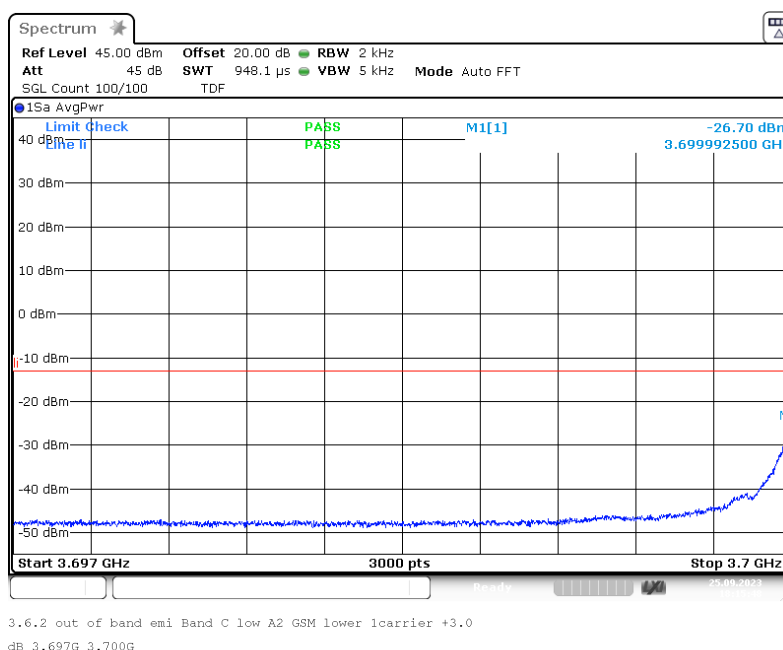
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EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 1



Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 1



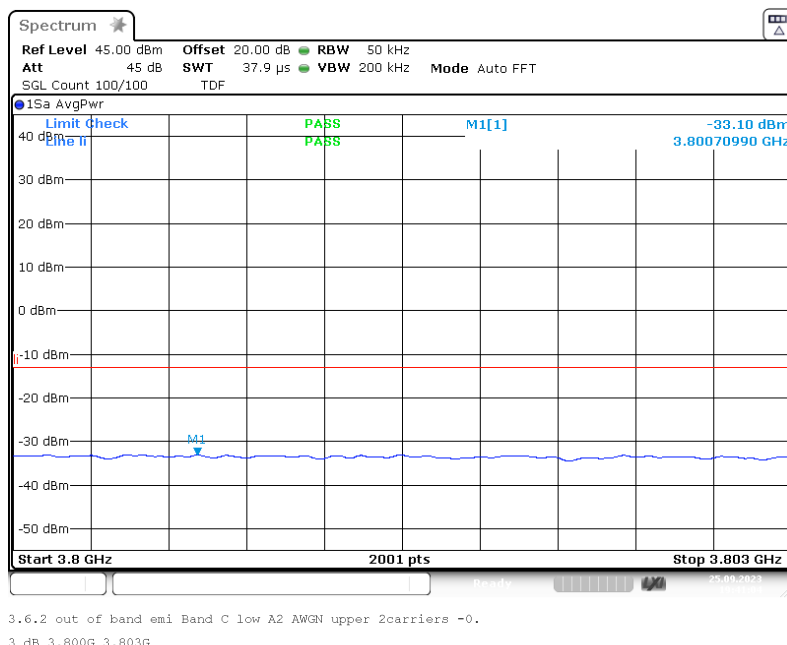
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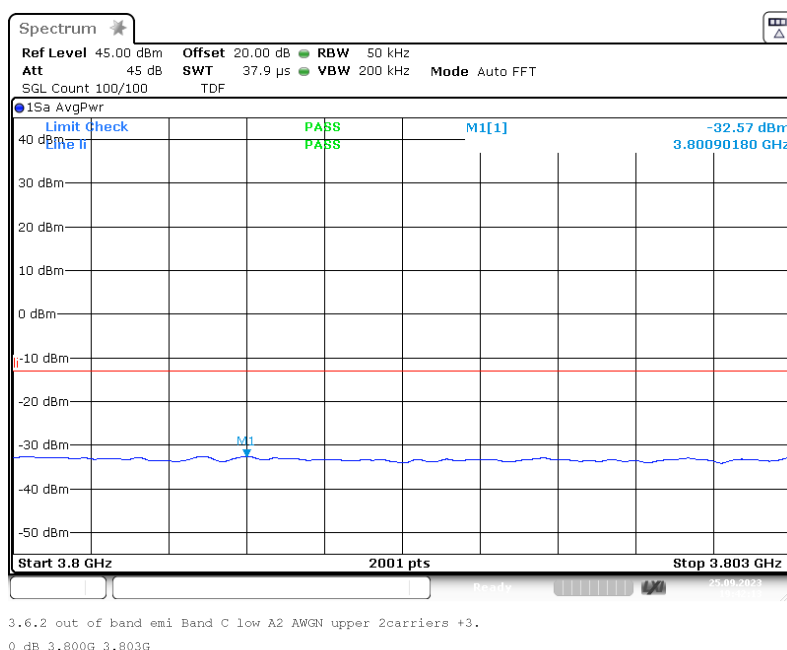
EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 2



Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 2



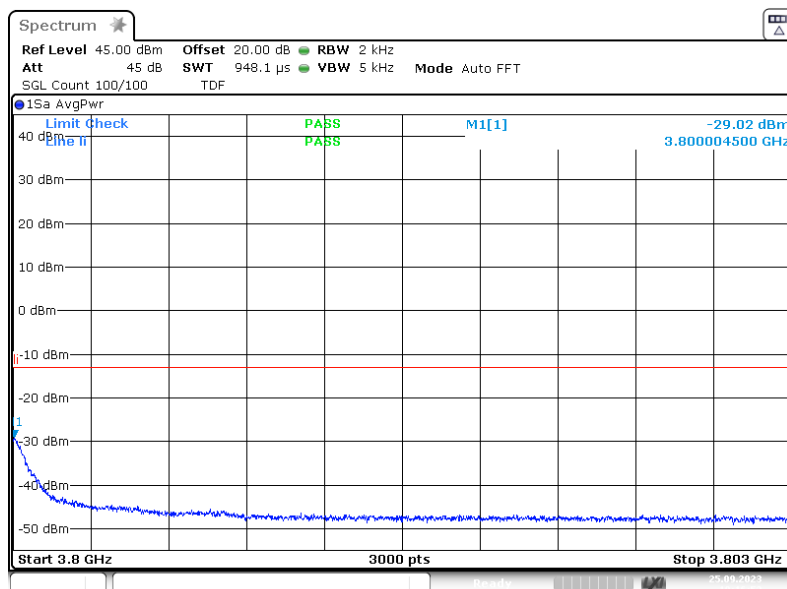
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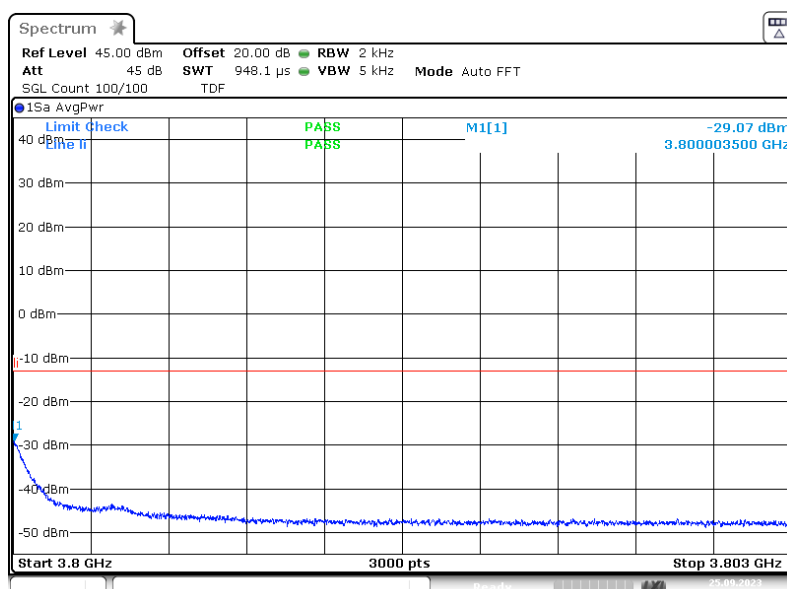
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C low A2 GSM upper 2carriers -0.3 dB 3.800G 3.803G

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C low A2 GSM upper 2carriers +3.0 dB 3.800G 3.803G

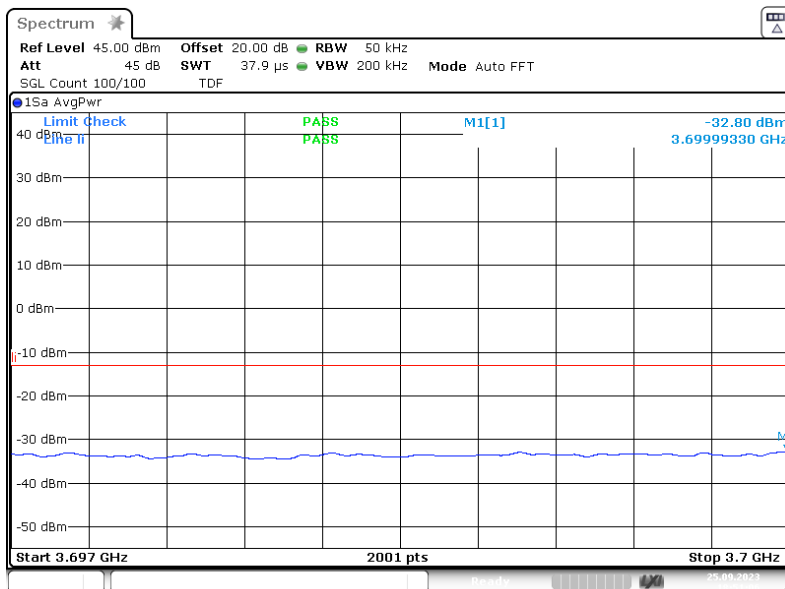
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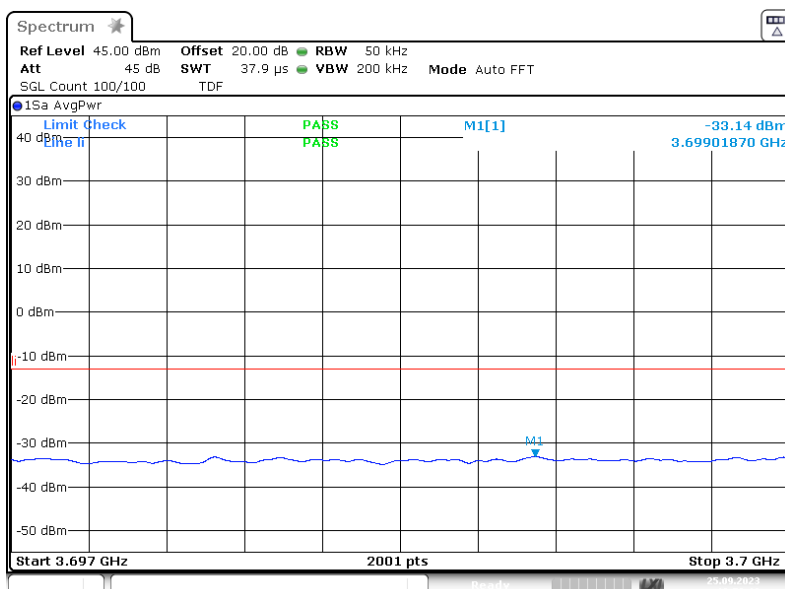
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C low A2 AWGN lower 2carriers -0.
3 dB 3.697G 3.700G

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C low A2 AWGN lower 2carriers +3.
0 dB 3.697G 3.700G

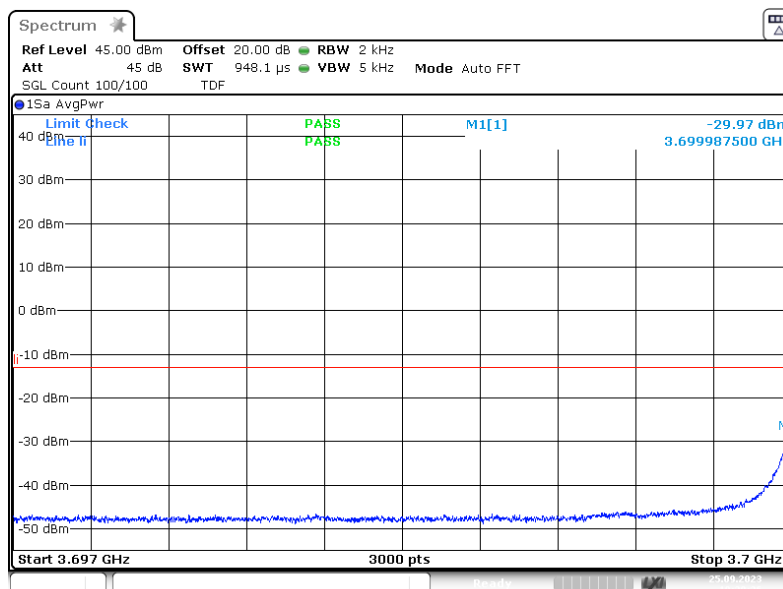
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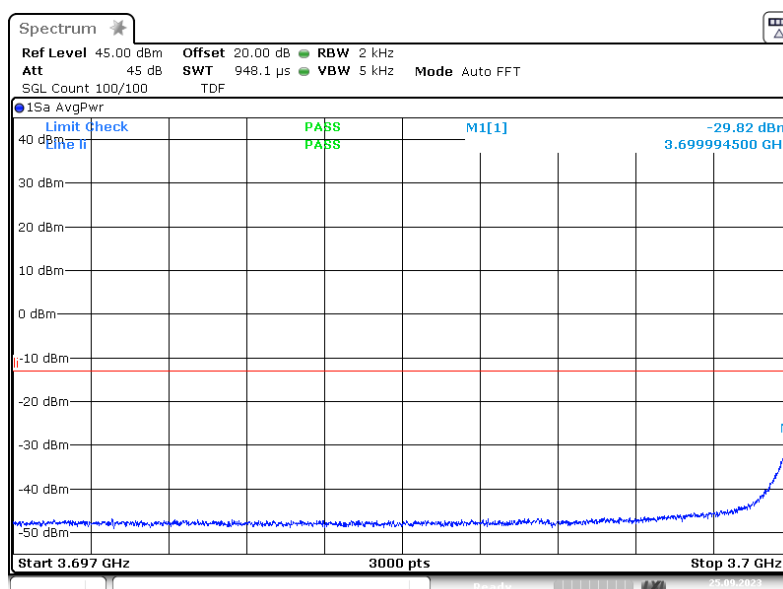
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C low A2 GSM lower 2carriers -0.3
dB 3.697G 3.700G

Band: Band C low A2; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C low A2 GSM lower 2carriers +3.0
dB 3.697G 3.700G

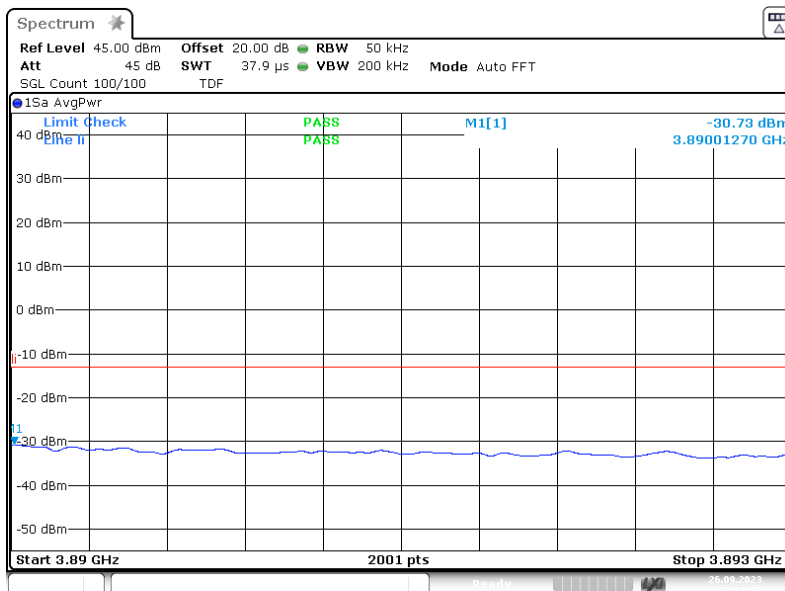
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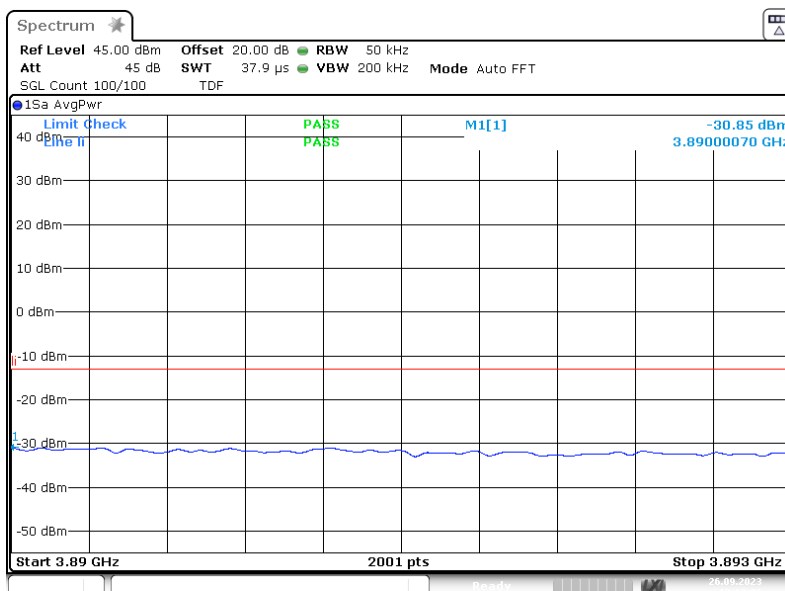
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN upper 1carrier -0.3
dB 3.890G 3.893G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN upper 1carrier +3.0
dB 3.890G 3.893G

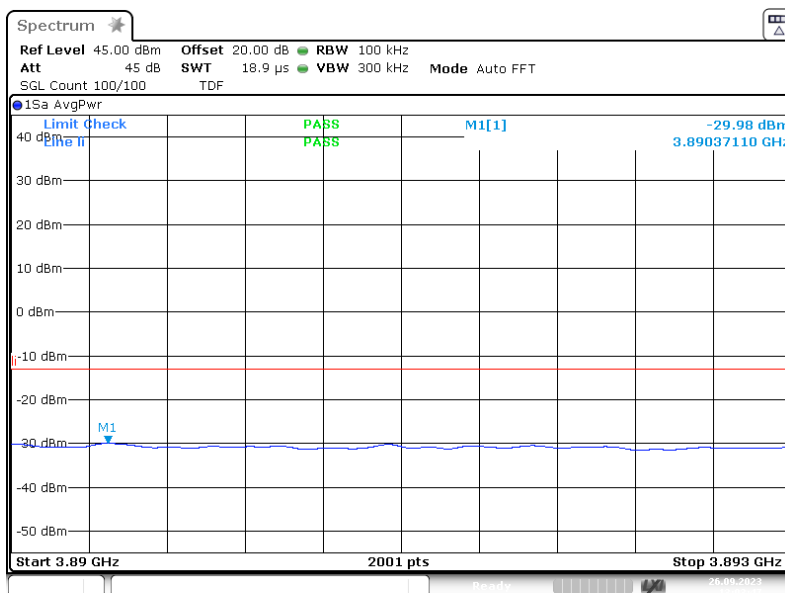
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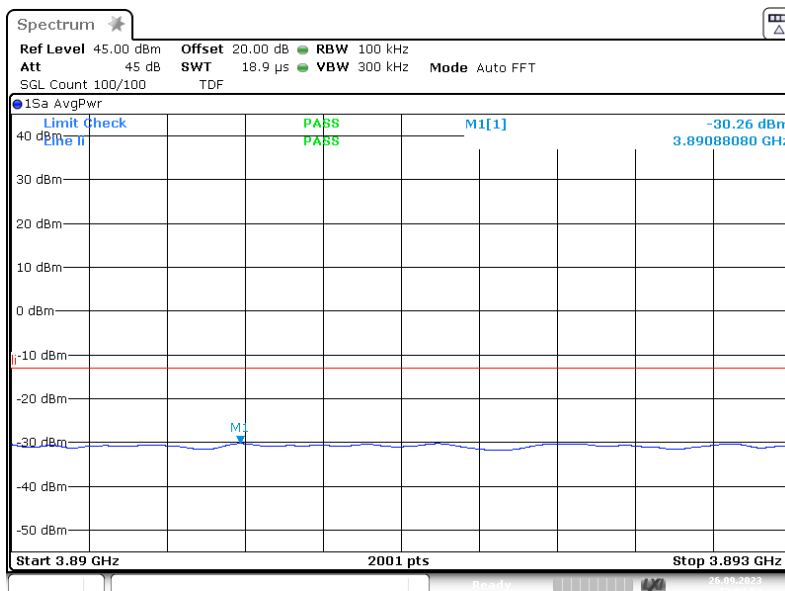
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: AWGN100; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN100 upper lcarrier -
0.3 dB 3.890G 3.893G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: AWGN100; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN100 upper lcarrier +
3.0 dB 3.890G 3.893G

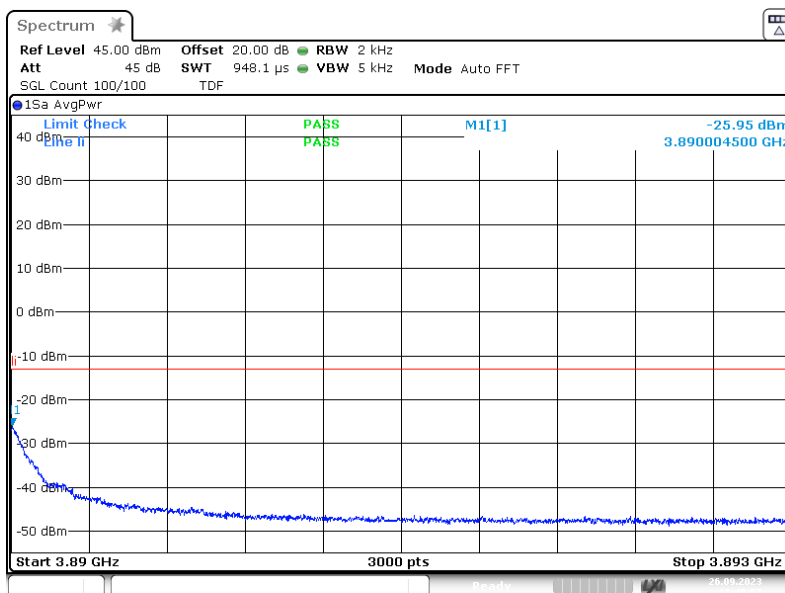
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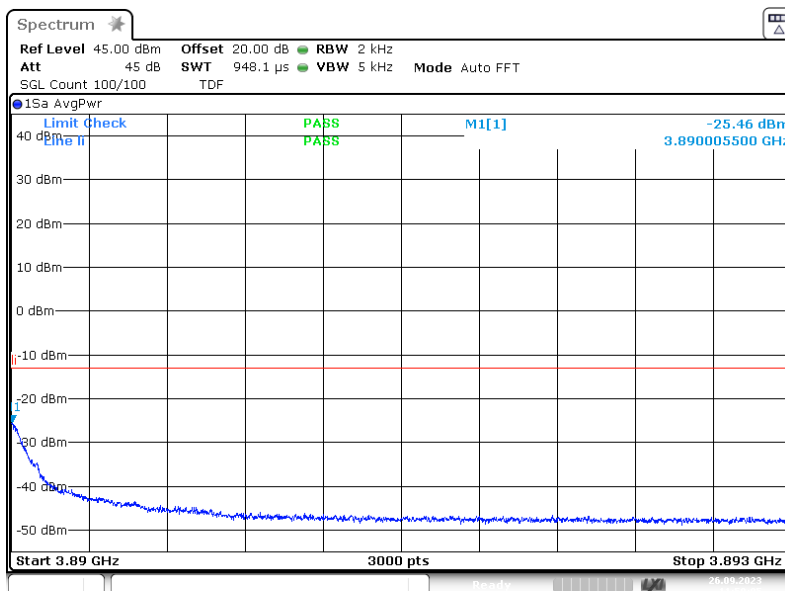
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 GSM upper 1carrier -0.3
dB 3.890G 3.893G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 GSM upper 1carrier +3.0
dB 3.890G 3.893G

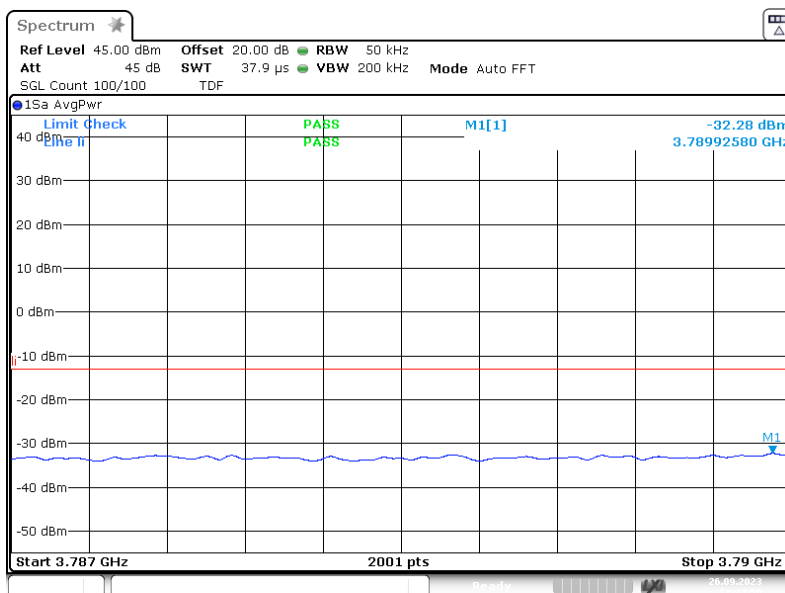
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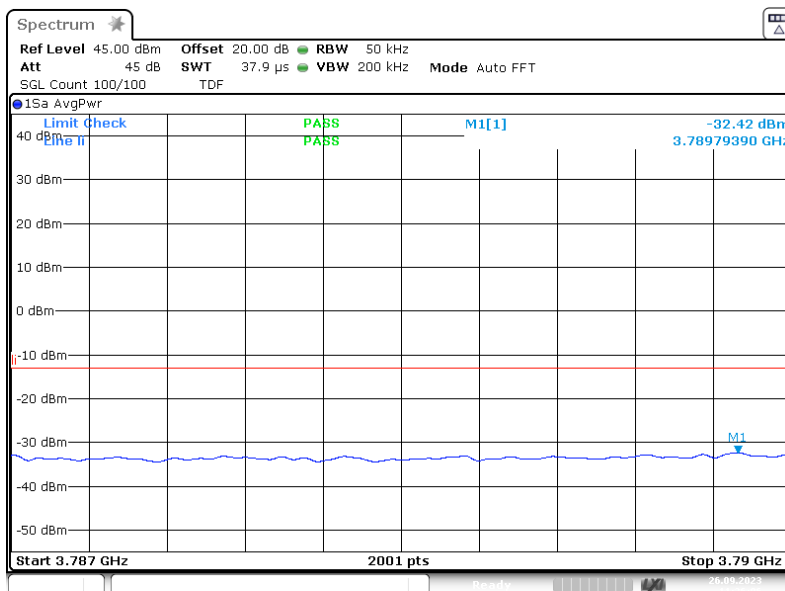
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN lower lcarrier -0.3
dB 3.787G 3.790G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN lower lcarrier +3.0
dB 3.787G 3.790G

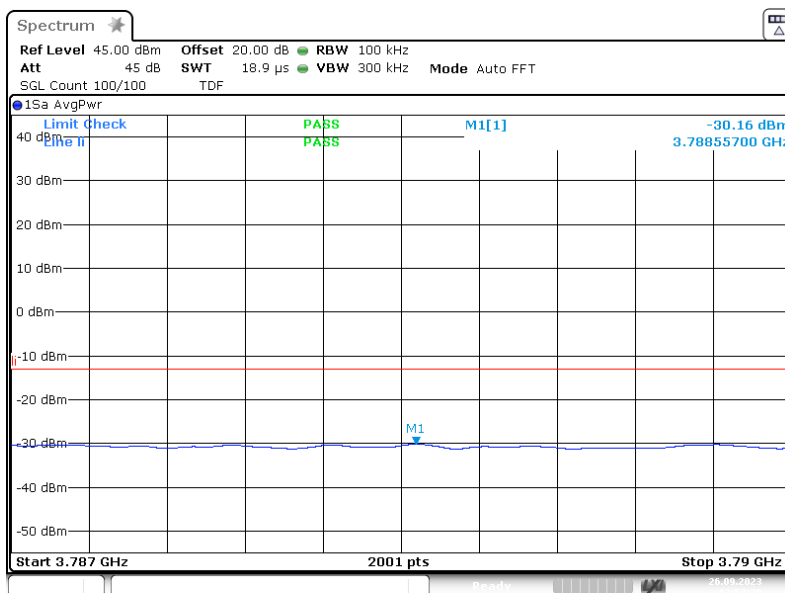
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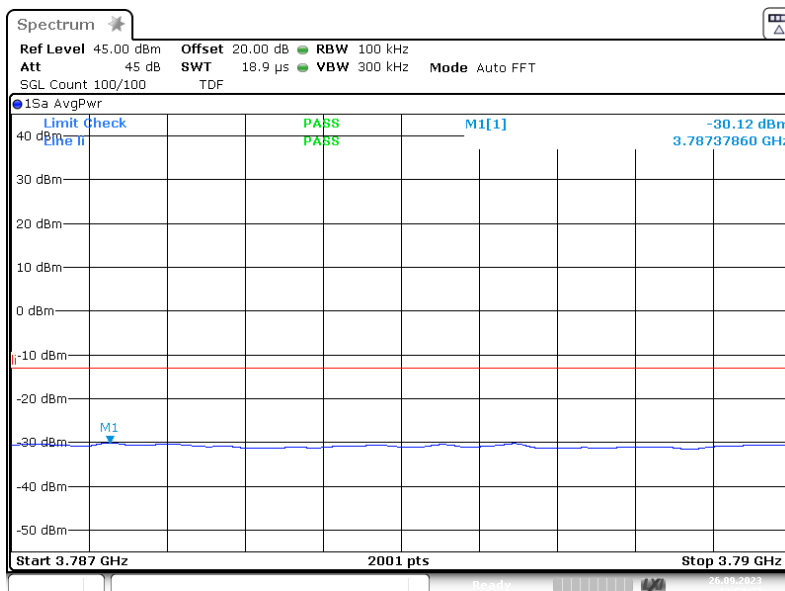
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: AWGN100; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN100 lower lcarrier -
0.3 dB 3.7876 3.7900

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: AWGN100; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C mid A2 AWGN100 lower lcarrier +
3.0 dB 3.7876 3.7900

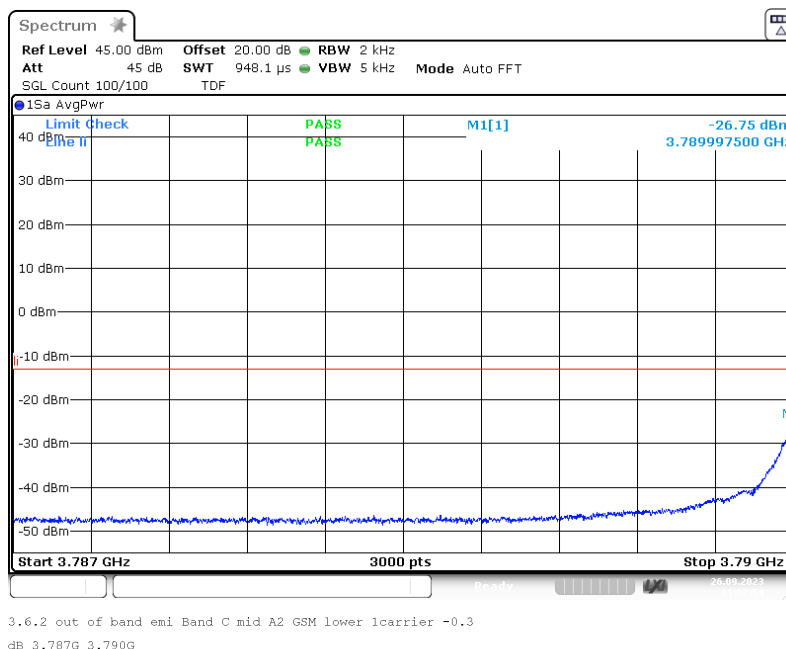
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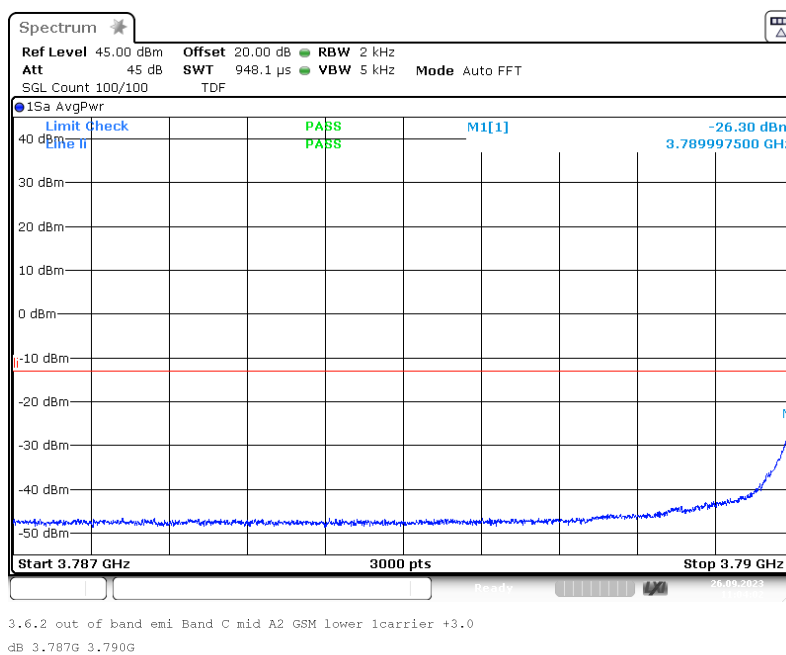
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EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 1



Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 1



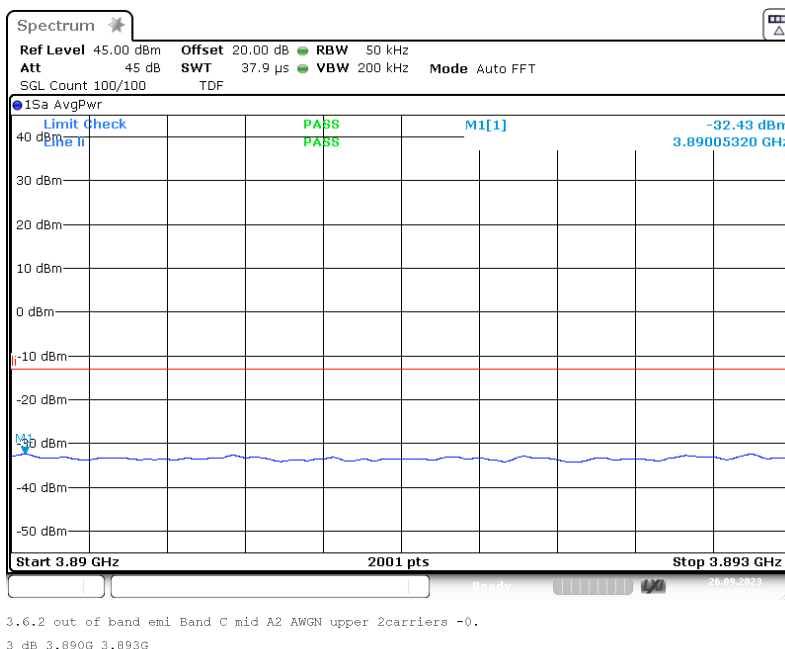
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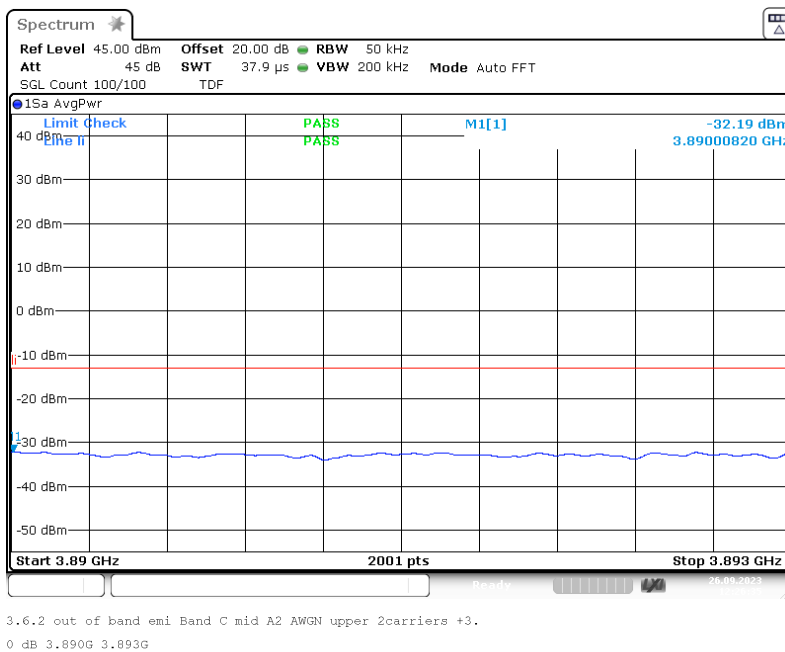
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EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 2



Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 2



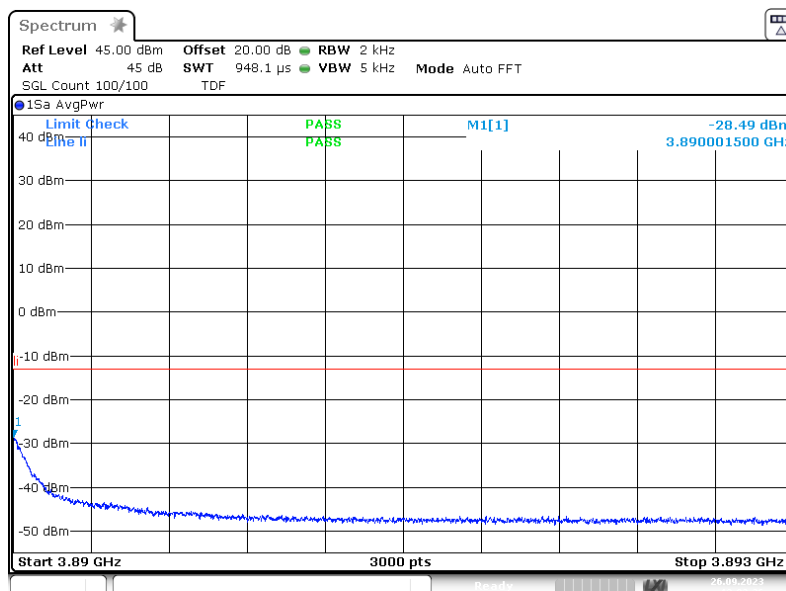
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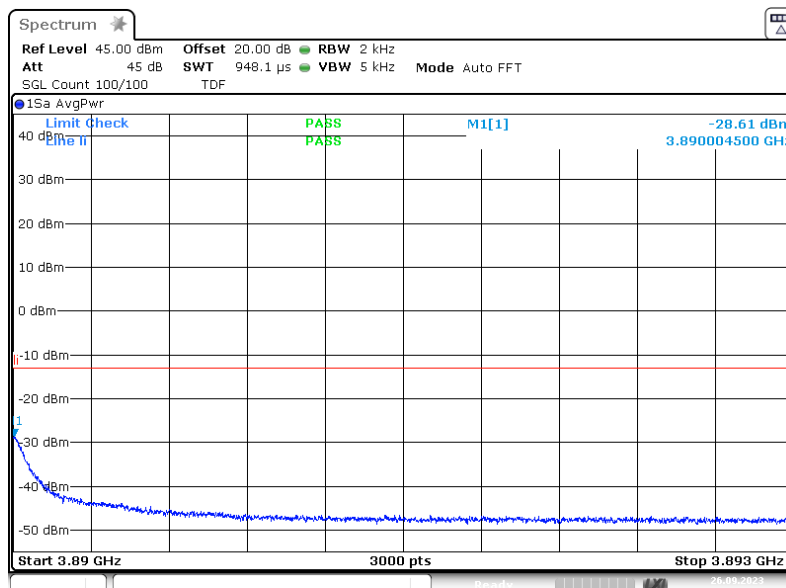
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C mid A2 GSM upper 2carriers -0.3 dB 3.890G 3.893G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C mid A2 GSM upper 2carriers +3.0 dB 3.890G 3.893G

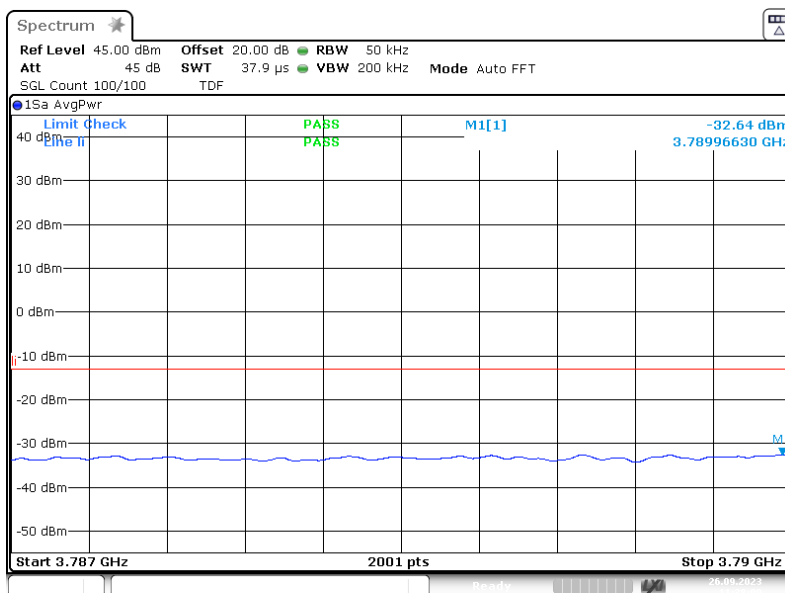
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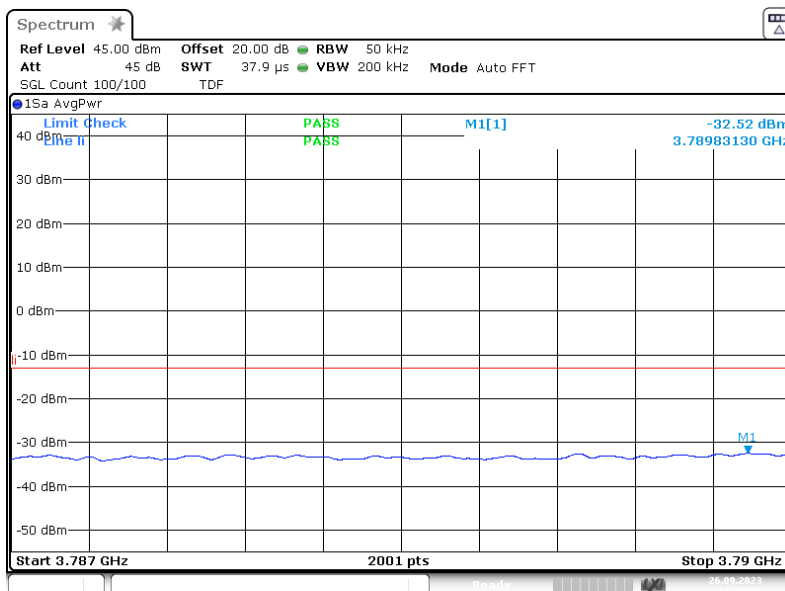
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C mid A2 AWGN lower 2carriers -0.
3 dB 3.787G 3.790G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C mid A2 AWGN lower 2carriers +3.
0 dB 3.787G 3.790G

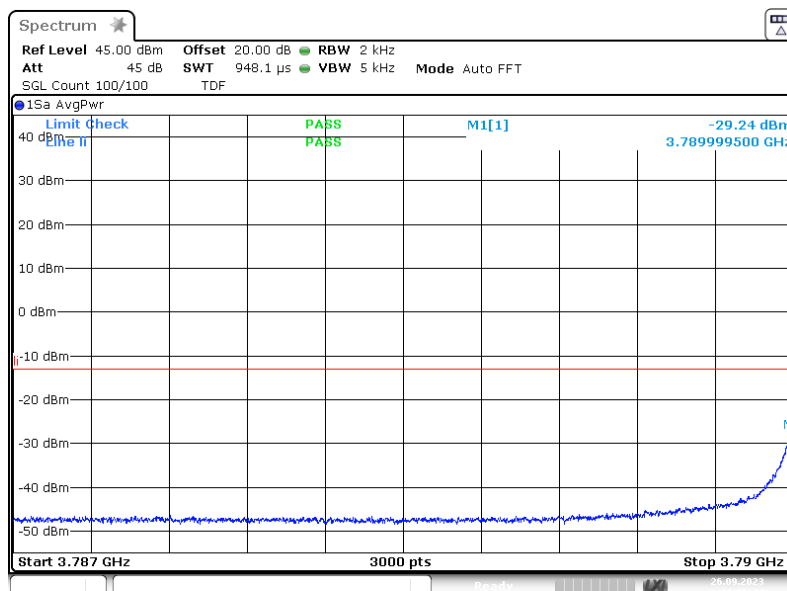
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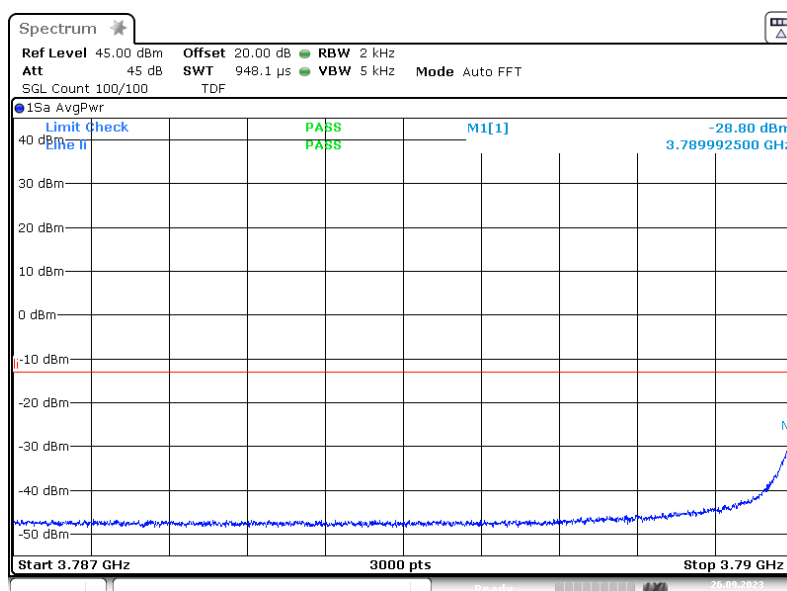
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C mid A2 GSM lower 2carriers -0.3 dB 3.787G 3.790G

Band: Band C mid A2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C mid A2 GSM lower 2carriers +3.0 dB 3.787G 3.790G

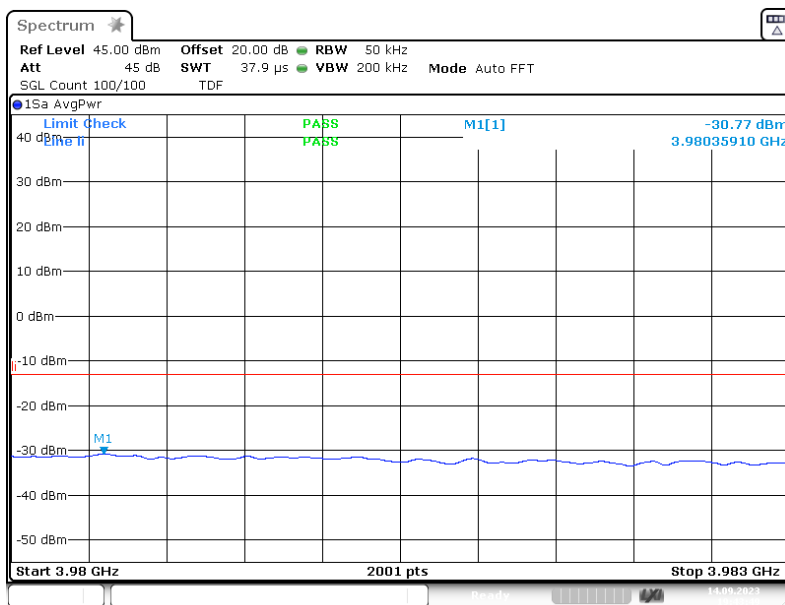
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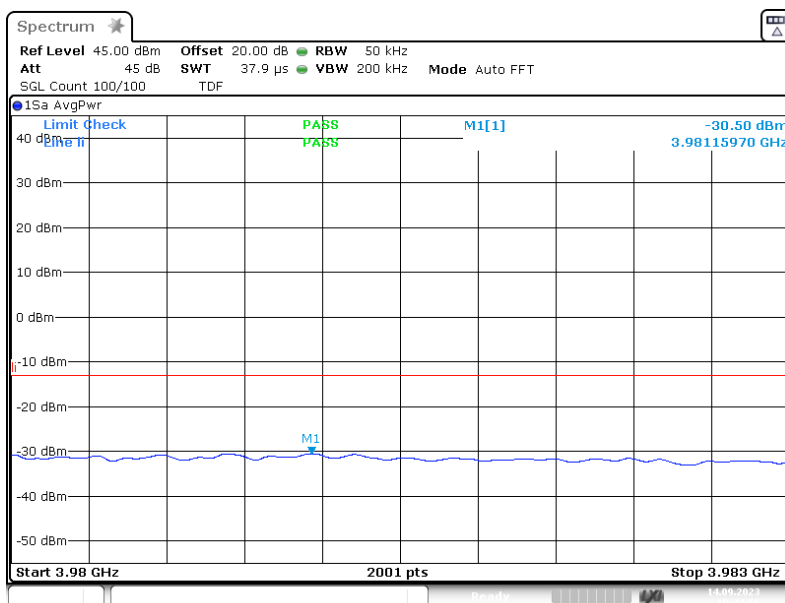
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN upper lo carrier -0.
3 dB 3.980G 3.983G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN upper lo carrier +3.
0 dB 3.980G 3.983G

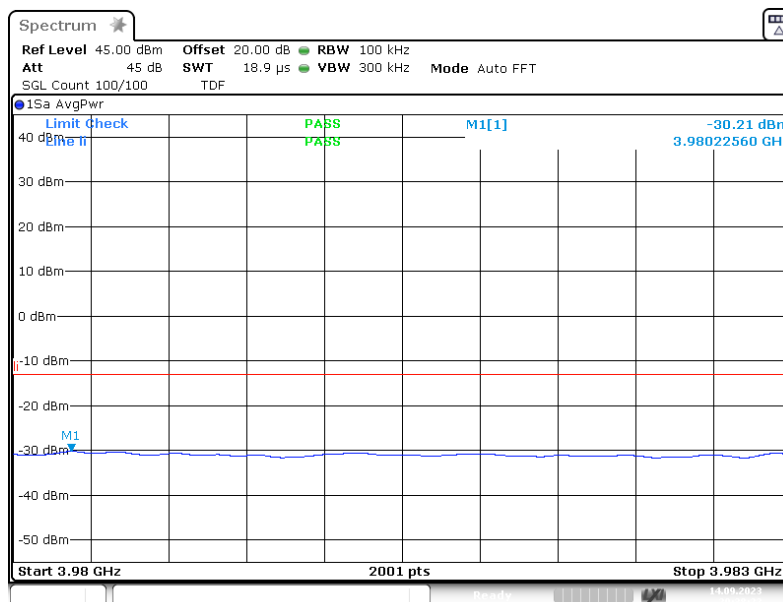
The test results relate only to the tested item. The sample has been provided by the client.
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EMC Test Report No.: 23-0199

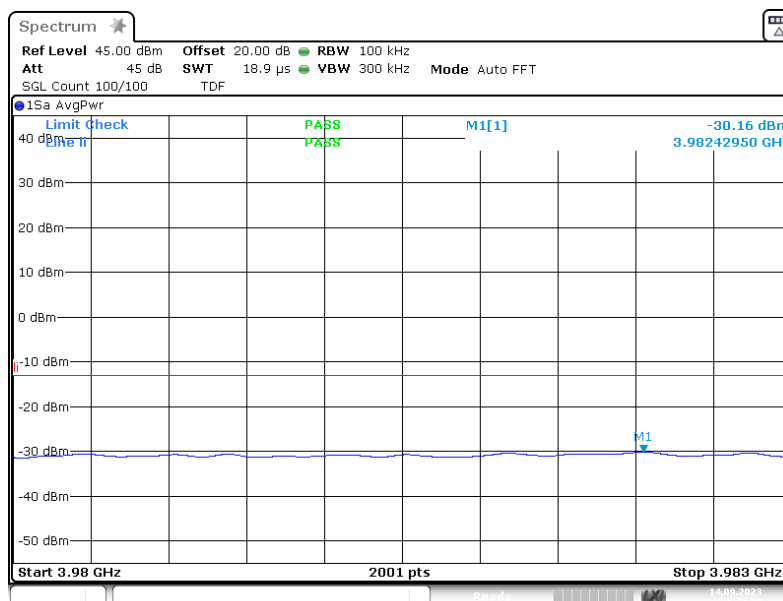
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: AWGN100; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN100 upper lcarrier
-0.3 dB 3.980G 3.983G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: AWGN100; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN100 upper lcarrier
+3.0 dB 3.980G 3.983G

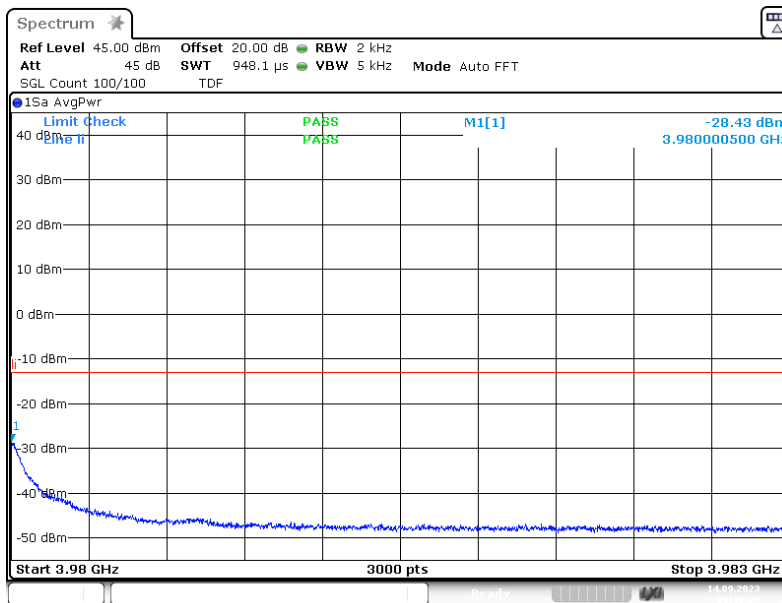
The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.



EMC Test Report No.: 23-0199

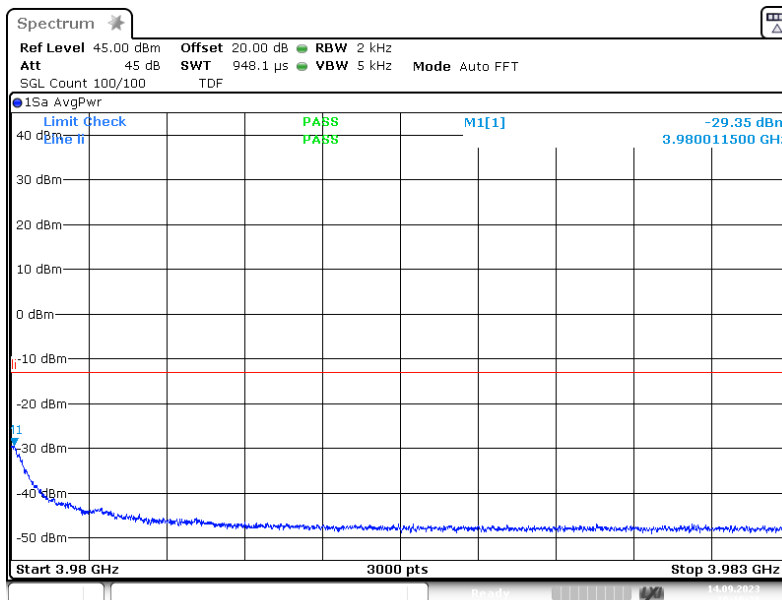
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 GSM upper lcarrier -0.3 dB 3.980G 3.983G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: GSM; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 GSM upper lcarrier +3.0 dB 3.980G 3.983G

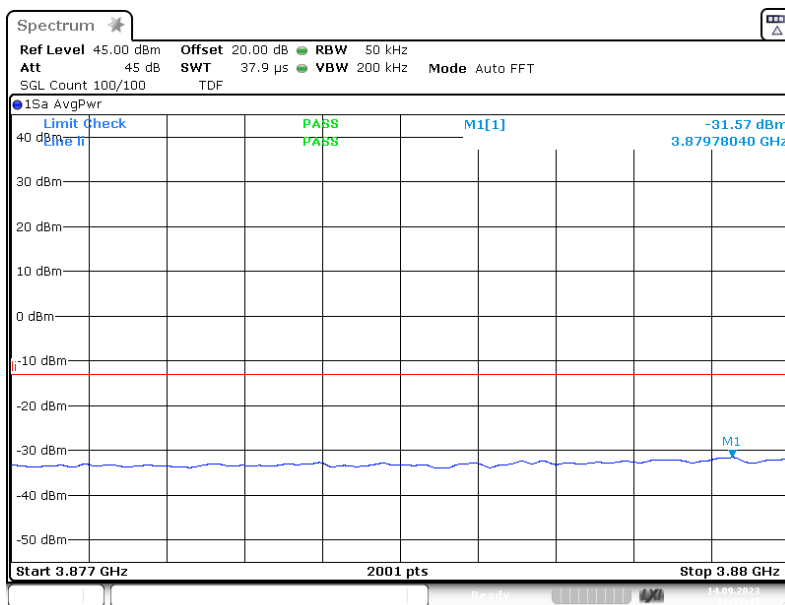
The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.



EMC Test Report No.: 23-0199

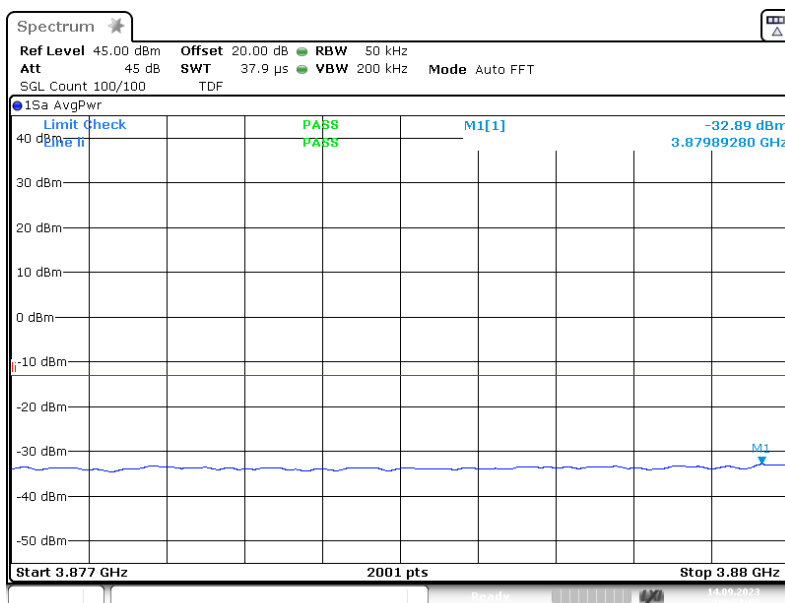
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN lower lo carrier -0.
3 dB 3.877G 3.880G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN lower lo carrier +3.
0 dB 3.877G 3.880G

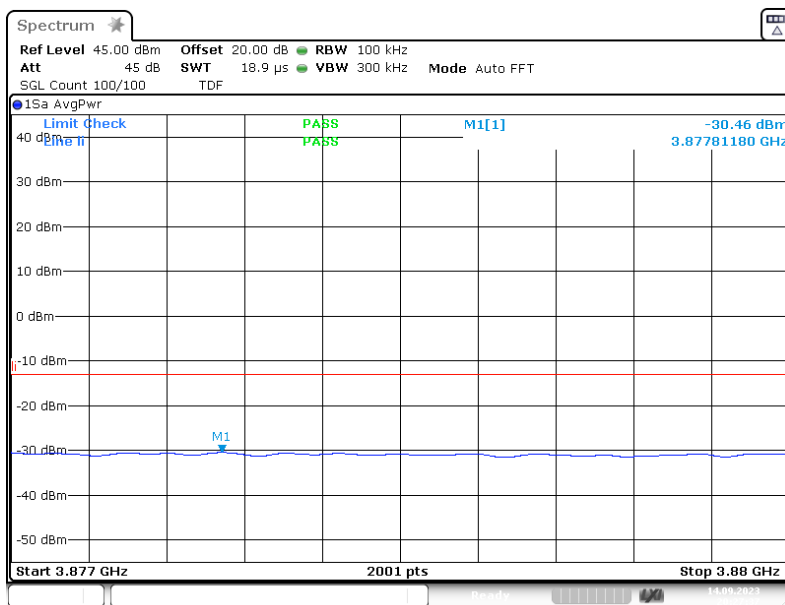
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EMC Test Report No.: 23-0199

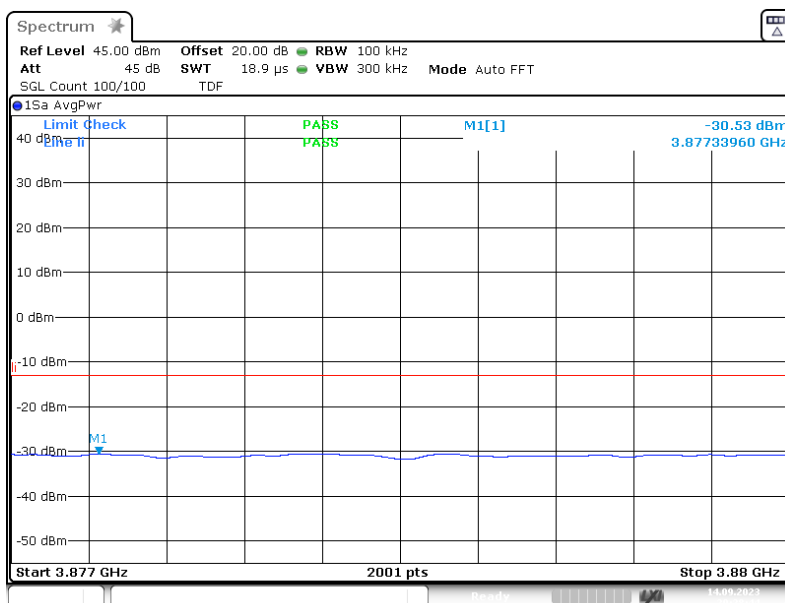
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: AWGN100; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN100 lower lcarrier
-0.3 dB 3.877G 3.880G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: AWGN100; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 AWGN100 lower lcarrier
+3.0 dB 3.877G 3.880G

The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

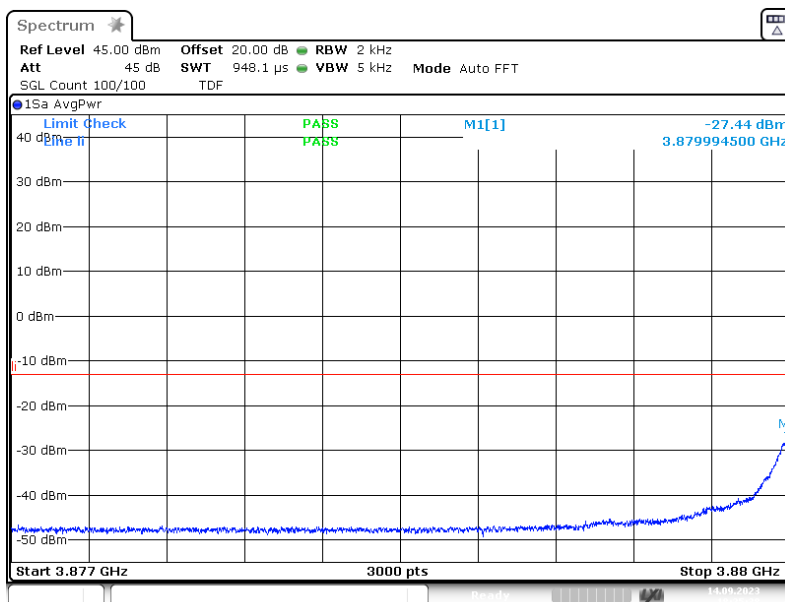


EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

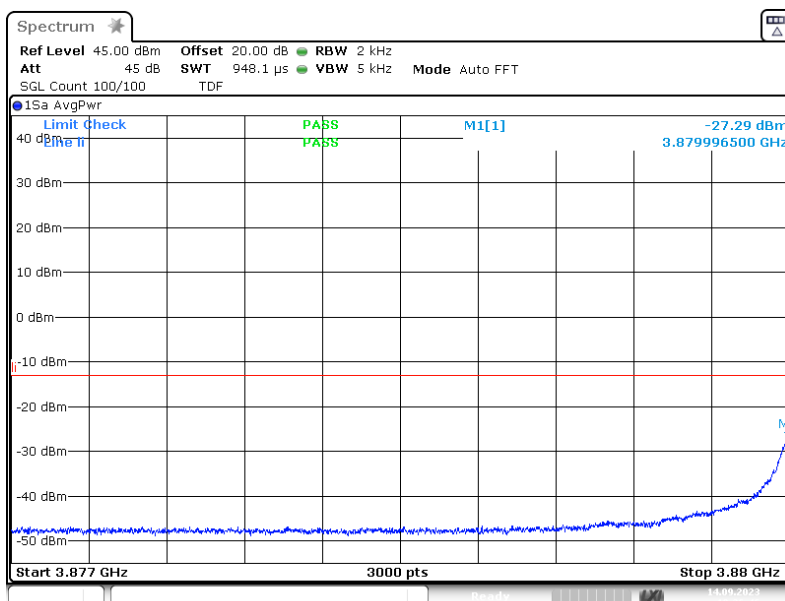


Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 GSM lower lcarrier -0.3 dB 3.877G 3.880G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: GSM; Input Power = 3 dB > AGC; Number of signals 1



3.6.2 out of band emi Band C high A2 GSM lower lcarrier +3.0 dB 3.877G 3.880G

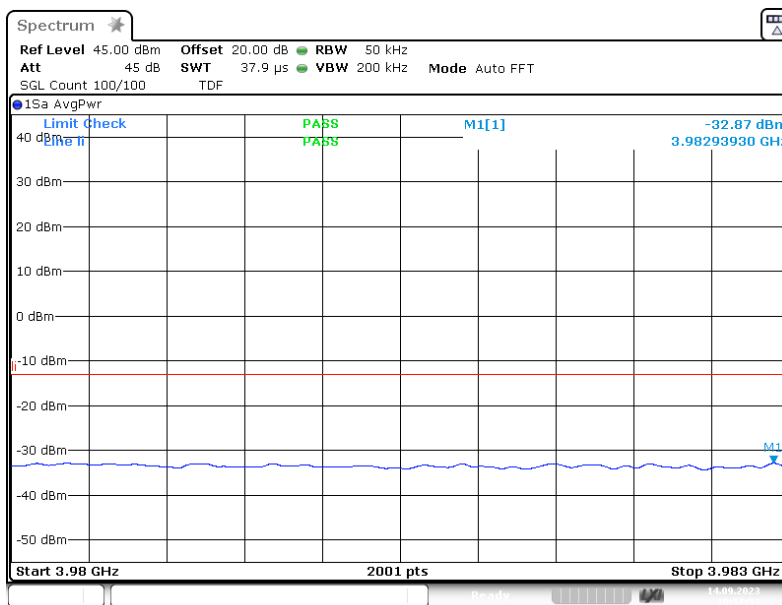
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EMC Test Report No.: 23-0199

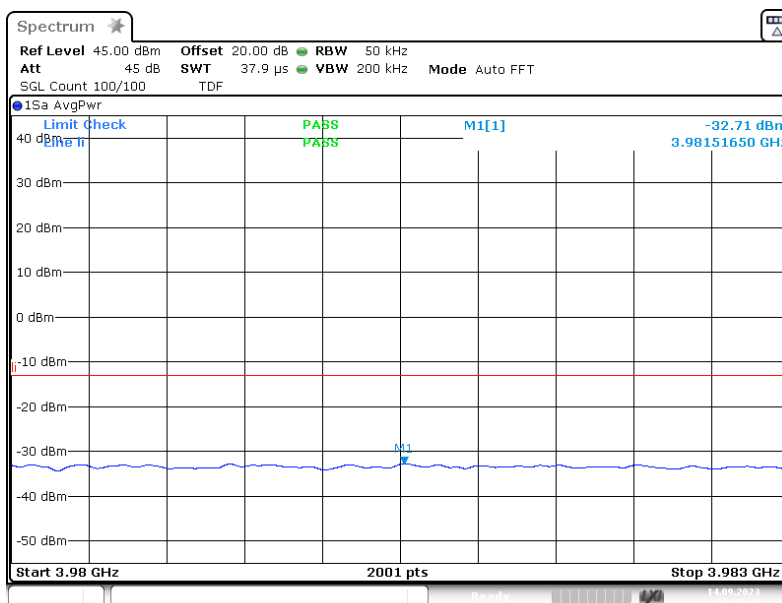
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 AWGN upper 2carriers -0
.3 dB 3.980G 3.983G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 AWGN upper 2carriers +3
.0 dB 3.980G 3.983G

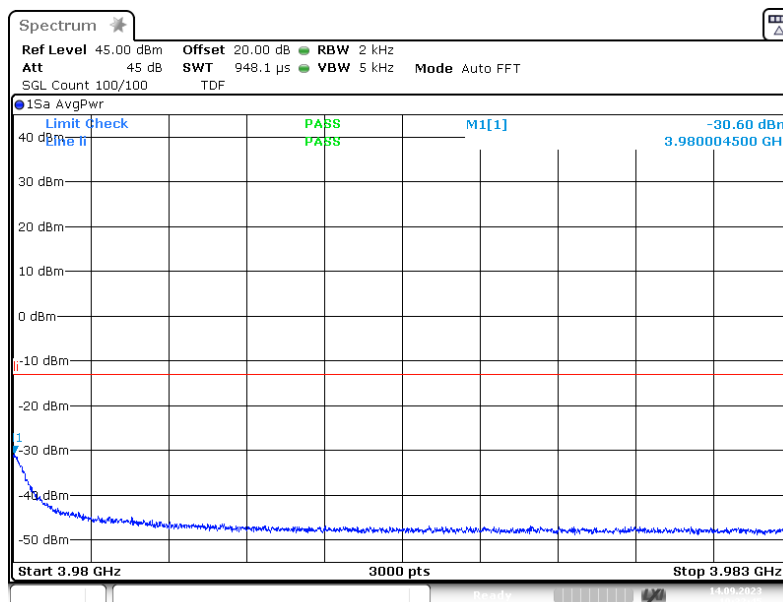
The test results relate only to the tested item. The sample has been provided by the client.
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EMC Test Report No.: 23-0199

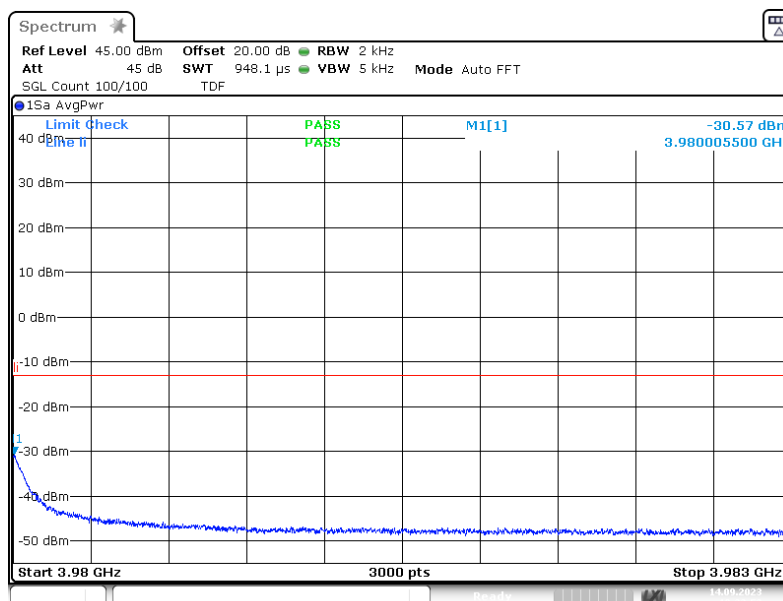
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 GSM upper 2carriers -0.
3 dB 3.980G 3.983G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 GSM upper 2carriers +3.
0 dB 3.980G 3.983G

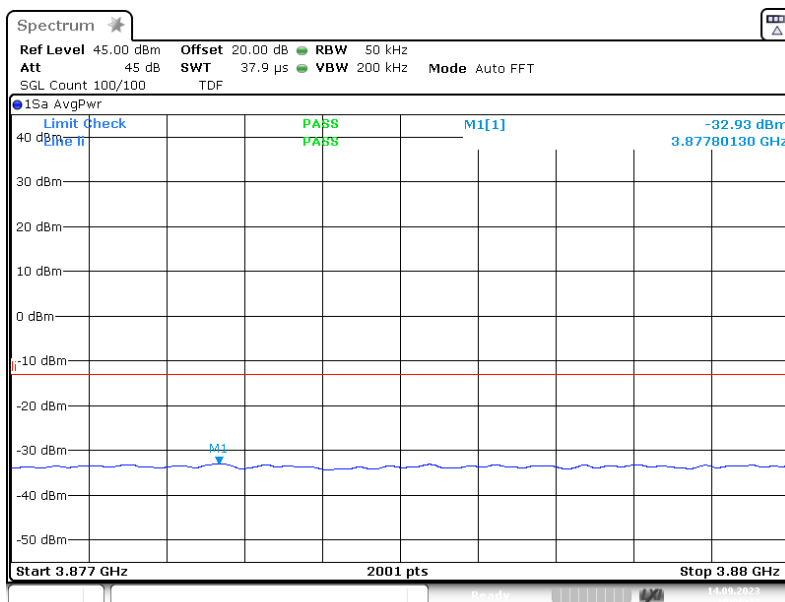
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EMC Test Report No.: 23-0199

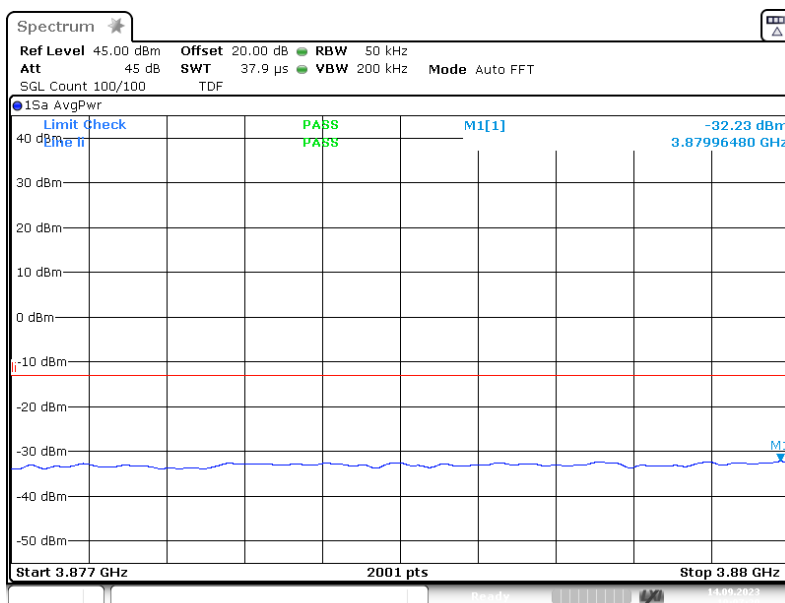
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 AWGN lower 2carriers -0
.3 dB 3.877G 3.880G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower;
Mod: AWGN; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 AWGN lower 2carriers +3
.0 dB 3.877G 3.880G

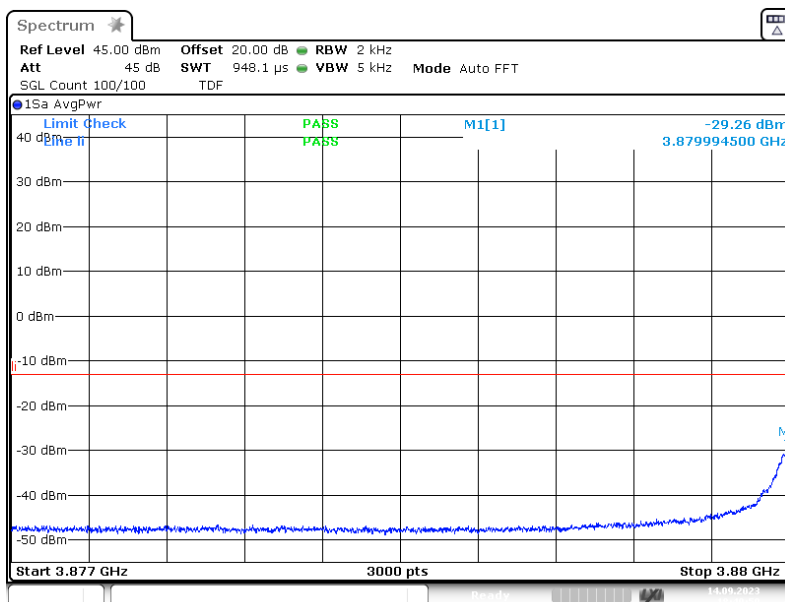
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EMC Test Report No.: 23-0199

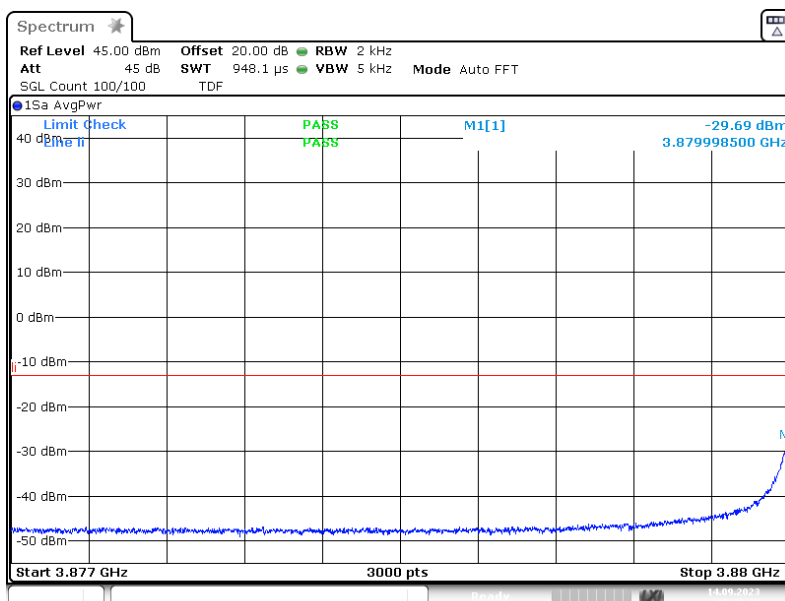
EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower;
Mod: GSM; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 GSM lower 2carriers -0.
3 dB 3.877G 3.880G

Band: Band C high A2; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower;
Mod: GSM; Input Power = 3 dB > AGC; Number of signals 2



3.6.2 out of band emi Band C high A2 GSM lower 2carriers +3.
0 dB 3.877G 3.880G

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VERITAS**

EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

4.5.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.
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2023-0313-EMC-TR-23-0199-V02

EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

4.6 OUT-OF-BAND REJECTION

Standard FCC Part 27

The test was performed according to:

ANSI C63.26

Test date: 2023-09-06 – 2023-11-14

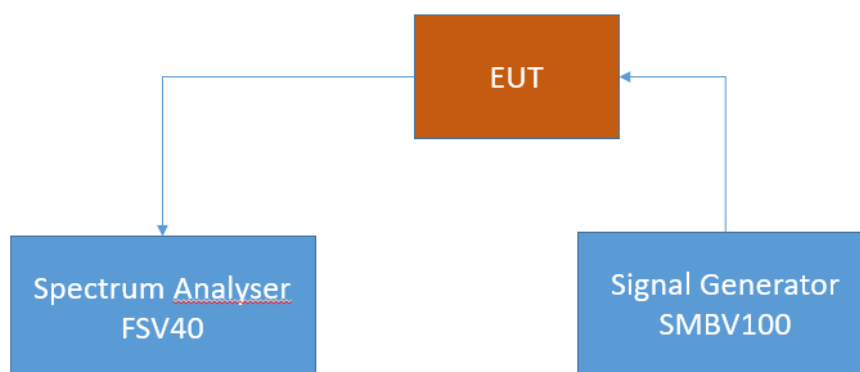
Environmental conditions: 23 ° C ± 5 K; 40 % r. F. ± 20 % r. F.

Test engineer: Thomas Hufnagel

4.6.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the out-of-band rejection test case for industrial signal boosters.

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



FCC Part 22/24/27/90 Industrial signal booster – Test Setup; Out-of-band rejection

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.

4.6.2 TEST REQUIREMENTS/LIMITS

For this test case exists no applicable limit



EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

4.6.3 TEST PROTOCOL

C-Band. segment 1. downlink				
Highest Power Frequency [MHz]	Output Power [dBm]	Lower Highest Power -20 dB Frequency [MHz]	Upper Highest Power -20 dB Frequency [MHz]	20 dB Bandwidth [MHz]
3712.800	26.09	3696.325	3803.725	107.25

C-Band. segment 2. downlink				
Highest Power Frequency [MHz]	Output Power [dBm]	Lower Highest Power -20 dB Frequency [MHz]	Upper Highest Power -20 dB Frequency [MHz]	20 dB Bandwidth [MHz]
3887.00	26.08	3786.275	3893.725	107.45

C-Band. segment 3. downlink				
Highest Power Frequency [MHz]	Output Power [dBm]	Lower Highest Power -20 dB Frequency [MHz]	Upper Highest Power -20 dB Frequency [MHz]	20 dB Bandwidth [MHz]
3886.70	23.68	3876.175	3983.825	107.65

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



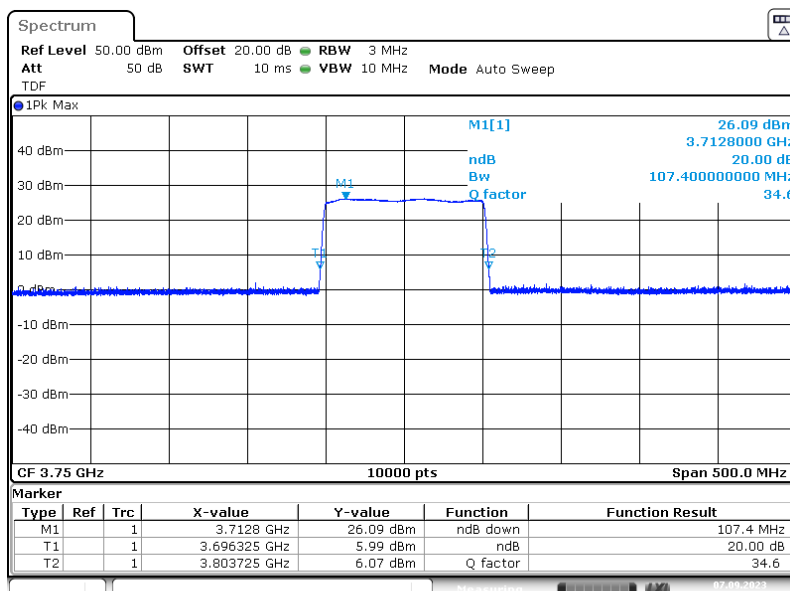
EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]



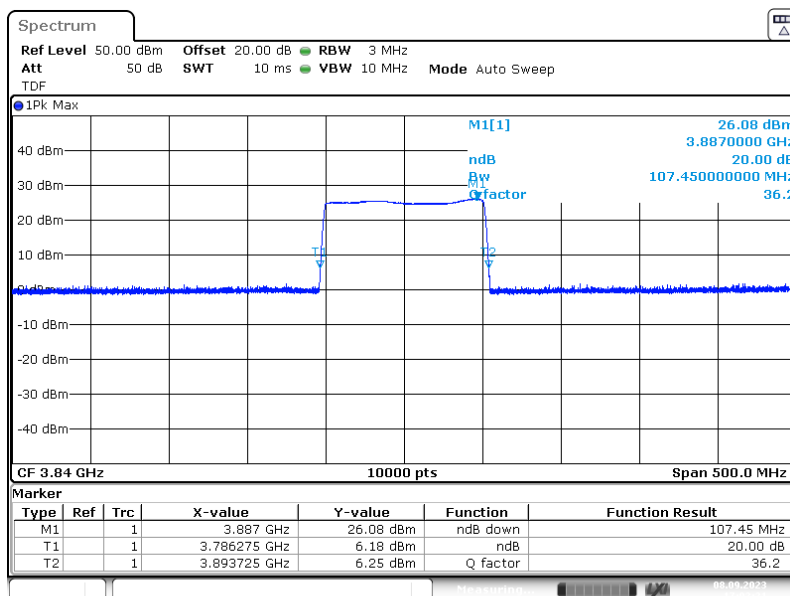
4.6.4 MEASUREMENT PLOTS

Frequency band = C-Band. segment 1. Direction = RF downlink



3.3 Out of band rejection Band C low A2 3.75000G
_20dB

Frequency band = C-Band. segment 2. Direction = RF downlink



3.3 Out of band rejection Band C mid A2 3.84000G
_20dB

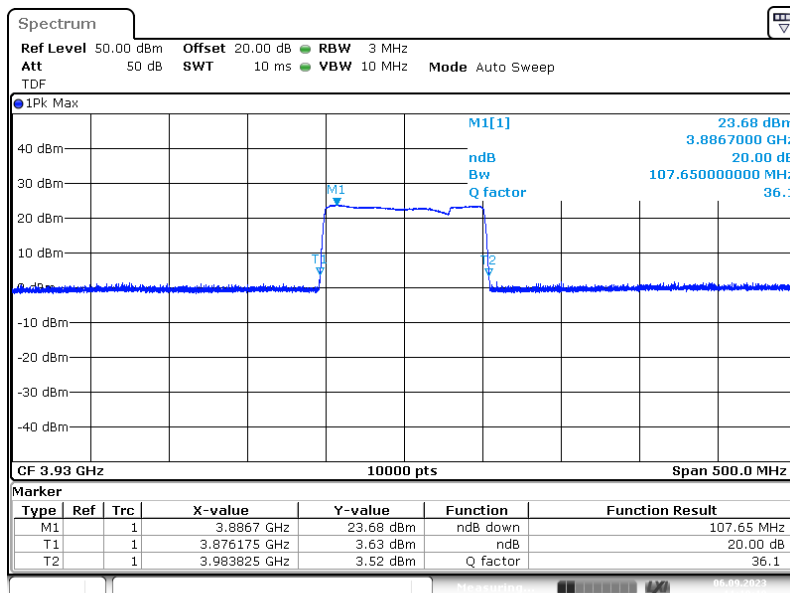
The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.



EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

Frequency band = C-Band. segment 3. Direction = RF downlink



3.3 Out of band rejection Band C high A2 3.93000G
_20dB

4.6.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.



EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

4.7 FREQUENCY STABILITY

The frequency stability test case was not carried out, as any frequency errors are eliminated by the given system architecture. This is achieved by generating the LOs in the head-end station and the LOs in the remote unit with a common reference clock. This reference clock is transmitted from the head-end station to the remote unit and regenerated there. This means that the same reference frequency is used for all signal conversions (up- and down-conversion as well as analog-to-digital and digital-to-analog conversion) and any frequency error in the reference clock is compensated therefore. This is already clear from the measurement markings for the occupied bandwidth (26dB bandwidth). It can be seen that the DUT has no influence on the frequency (comparison between input and output signal). In addition, it is operationally necessary for the frequency deviation to be significantly smaller than the spectral distance between the transmission bandwidth edge and the channel bandwidth edge in order to meet the signal quality requirement (signal purity) and such ensure that the fundamental emissions remain within the authorized bands of operation.

EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

4.8 FIELD STRENGTH OF SPURIOUS RADIATION

Standard FCC Part 27. §27.53

The test was performed according to:
ANSI C63.26

Test date: 2023-10-04. 2023-12-06

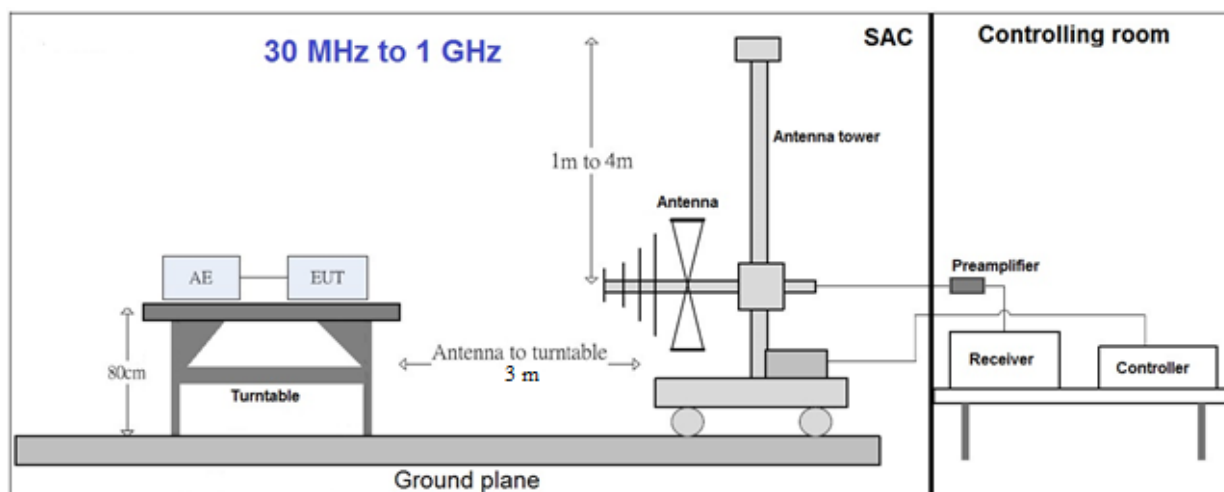
Environmental conditions: 23 ° C ± 5 K; 40 % r. F. ± 20 % r. F.

Test engineer: Thomas Hufnagel, Gerhard Gass

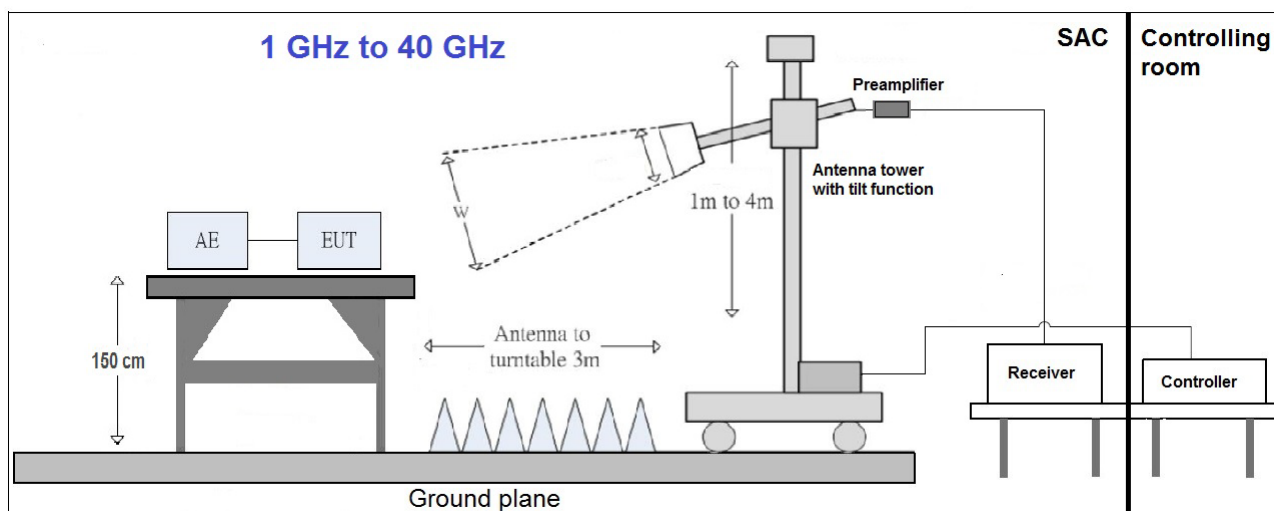
4.8.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the applicable radiated spurious emission measurements per § 2.1053

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



The test results relate only to the tested item. The sample has been provided by the client.
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The test set-up was made in accordance to the general provisions of ANSI C63.4 in a typical installation configuration. The Equipment Under Test (EUT) was set up on a non-conductive table 1.5 x 1.5 m² in the semi-anechoic chamber. 0.8 meter above the ground or floor-standing arrangement shall be placed on the horizontal ground reference plane. The influence of the EUT support table that is used between 30–1000 MHz was evaluated. For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. The highest emissions between 30 MHz to 1000 MHz were analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions.

The measurement procedure is implemented into the EMI test software BAT EMC from NEXIO. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is also performed at 3 axes. A pre-check is performed while the EUT is powered by a DC power source.



1. Measurement above 30 MHz and up to 1 GHz

Step 1: Preliminary scan

This is a preliminary test to identify the highest amplitudes relative to the limit.

Settings for step 1:

- Antenna distance: 3 m
- Detector: PEAK
- Frequency range: 30 – 1000 MHz
- Frequency steps: 30 kHz
- IF-Bandwidth: 100 kHz
- Turntable angle range: -180° to 180°
- Turntable step size: 15°
- Height variation range: 1 – 4 m
- Height variation step size: 1 m
- Polarisation: Horizontal + Vertical

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: Adjustment measurement

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will slowly vary by $\pm 15^{\circ}$ around this value. During this action, the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position, the antenna height will also slowly vary by ± 100 cm around the antenna height determined. During this action, the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

- Detector: PEAK
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 100 kHz
- Turntable angle range: $\pm 15^{\circ}$ around the determined value
- Antenna Polarisation: max. value determined in step 1

Step 3: Final measurement with PEAK detector

With the settings determined in step 3, the final measurement will be performed:

EMI receiver settings for step 4:

- Detector: PEAK (< 1 GHz)
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 100 kHz

After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.



EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

3. Measurement above 1 GHz

The following modifications apply to the measurement procedure for the frequency range above 1 GHz:

Step 1:

The Equipment Under Test (EUT) was set up on a non-conductive support at 1.5 m height in the semi-anechoic chamber. Absorbers are placed around and between the turn table and the antenna tower.

All steps were performed with one height (1.5 m) of the receiving antenna only.

The EUT is turned during the preliminary measurement across the elevation axis. with a step size of 15 °.

The turn table step size (azimuth angle) for the preliminary measurement is 15 °.

Step 2:

The maximum RFI field strength was determined during the measurement by rotating the turntable (± 180 degrees) and varying the height of the receive antenna ($h = 1 \dots 4$ m) with a additional tilt function of the antenna. The turn table azimuth will slowly vary by $\pm 15^\circ$.

EMI receiver settings (for all steps):

- Detector: PEAK
- IF Bandwidth = 1 MHz

Step 3:

Spectrum analyser settings for step 3:

- Detector: PEAK
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 1 MHz



4.8.2 TEST REQUIREMENTS/LIMITS

FCC Part 2.1053; Measurement required: Field strength of spurious radiation:

Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate.

Part 27; Miscellaneous Wireless Communication Services

Subpart C – Technical standards

§27.53 – Emission limits

(I) 3.7 GHz Service.

The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

- (1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.



EMC Test Report No.: 23-0199

EMC tests on Andrew CAP M2 34T/37T/37T F-DC-F1 [37T]

4.8.3 TEST PROTOCOL

General considerations concerning the limits:

The measuring bandwidth of 1 MHz was chosen according the test requirements except at the bands from 30 MHz to 1 GHz: At these bands reducing of measurement bandwidth was done.

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 where measuring bandwidths were reduced also the limit lines were reduced according the given formula:

$$p_{RBW_{reduced}} [dBm] = 10 * \log \left(RBW_{reduced} [kHz] - 1000 kHz \right) + p_{RBW 1000 kHz} [dBm]$$

Hereby "p" are the limit lines' values.

Considerations to MIMO operation:

At this test the two output ports ANT 2 and ANT 4 are together in function according KDB 935210 D02 v04r02 chapter II (o) (2).

Measurement tables (showing the highest value “worst case”) whit one antenna

At this tables the highest peak value of spurious radiation per frequency test band is shown.

C-Band. segment 1. downlink;						
Spurious Freq. [MHz]	Spurious Level [dBm]	Pin [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
176.9/vert.	-61.0	-5.2	RMS	100	-23.0	38.0
500/hor.	-62.5	-5.2	RMS	100	-23.0	39.5
17755/hor.	-23.6	-5.2	RMS	1000	-13.0	10.6
39916/hor.	-45.7	-5.2	RMS	1000	-13.0	32.7

C-Band. segment 2. downlink;						
Spurious Freq. [MHz]	Spurious Level [dBm]	Pin [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
177.6/vert.	-59.8	-5.0	RMS	100	-23.0	36.8
500/vert.	-60.6	-5.0	RMS	100	-23.0	37.6
17784/hor.	-23.9	-5.0	RMS	1000	-13.0	10.9
39876/hor.	-45.9	-5.0	RMS	1000	-13.0	32.9

C-Band. segment 3. downlink;						
Spurious Freq. [MHz]	Spurious Level [dBm]	Pin [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
195.7/vert.	-61.0	-4.2	RMS	100	-23.0	38.0
500/vert.	-60.7	-4.2	RMS	100	-23.0	37.7
17747/vert.	-22.6	-4.2	RMS	1000	-13.0	9.6
39929/vert.	-45.6	-4.2	RMS	1000	-13.0	32.6

Abbreviations:

Hor.: horizontal position

Vert.: vertical position

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

Measurement tables (showing the highest value “worst case”) whit two antennas (MIMO)

At this tables the highest peak value of spurious radiation per frequency test band is shown.

C-Band. segment 1. downlink;						
Spurious Freq. [MHz]	Spurious Level [dBm]	Pin [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
178.4/vert.	-62.3	-5.2	RMS	100	-23.0	39.3
500/vert.	-61.6	-5.2	RMS	100	-23.0	38.6
17749/vert.	-22.8	-5.2	RMS	1000	-13.0	9.8
39926/hor.	-45.2	-5.2	RMS	1000	-13.0	32.2

C-Band. segment 2. downlink;						
Spurious Freq. [MHz]	Spurious Level [dBm]	Pin [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
177.2/vert.	-61.7	-5.0	RMS	100	-23.0	38.7
500/hor.	-62.3	-5.0	RMS	100	-23.0	39.3
17591/vert.	-23.5	-5.0	RMS	1000	-13.0	10.5
39877/hor.	-45.7	-5.0	RMS	1000	-13.0	32.7

C-Band. segment 3. downlink;						
Spurious Freq. [MHz]	Spurious Level [dBm]	Pin [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to Limit [dB]
178.4/vert.	-62.4	-4.2	RMS	100	-23.0	39.4
391.8/hor.	-64.6	-4.2	RMS	100	-23.0	41.6
500/vert.	-62.4	-4.2	RMS	100	-23.0	39.4
17788/hor.	-23.1	-4.2	RMS	1000	-13.0	10.1
39916/hor.	-45.5	-4.2	RMS	1000	-13.0	32.5

Abbreviations:

Hor.: horizontal position

Vert.: vertical position

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

The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.