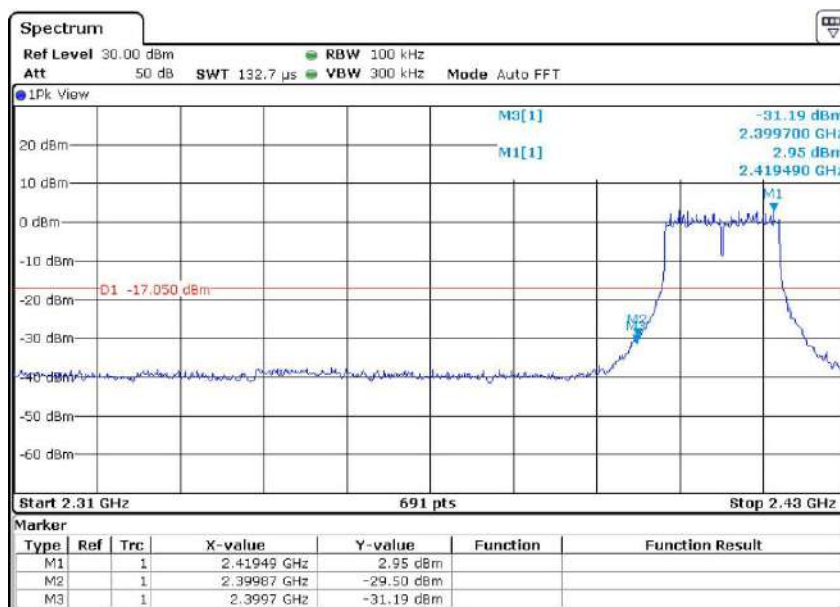


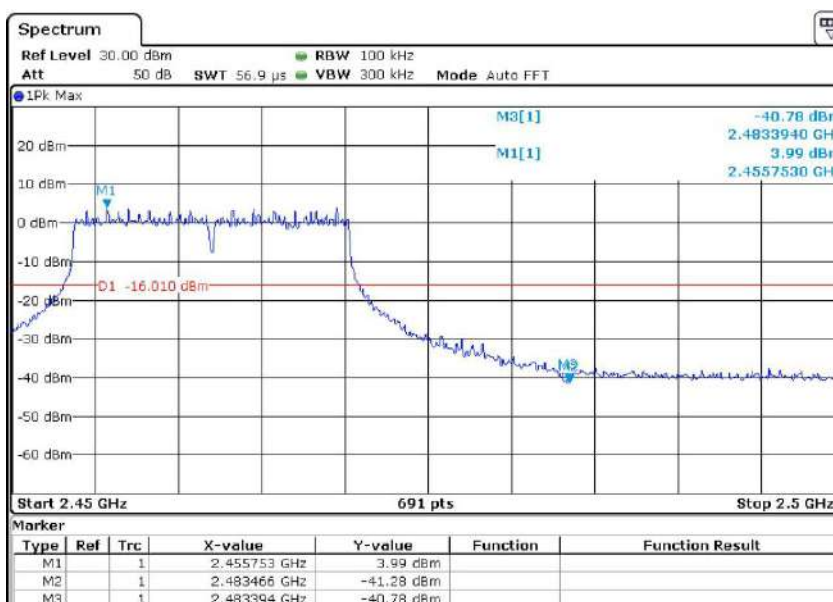
802.11g mode with 54 Mbps data rate

Channel1: 2.412 GHz



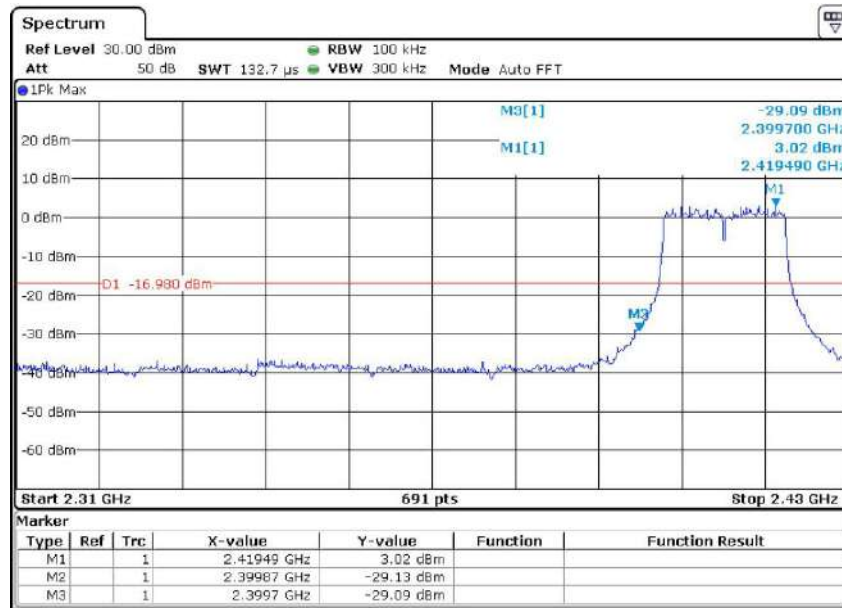
802.11g mode with 54 Mbps data rate

Channel11: 2.462 GHz



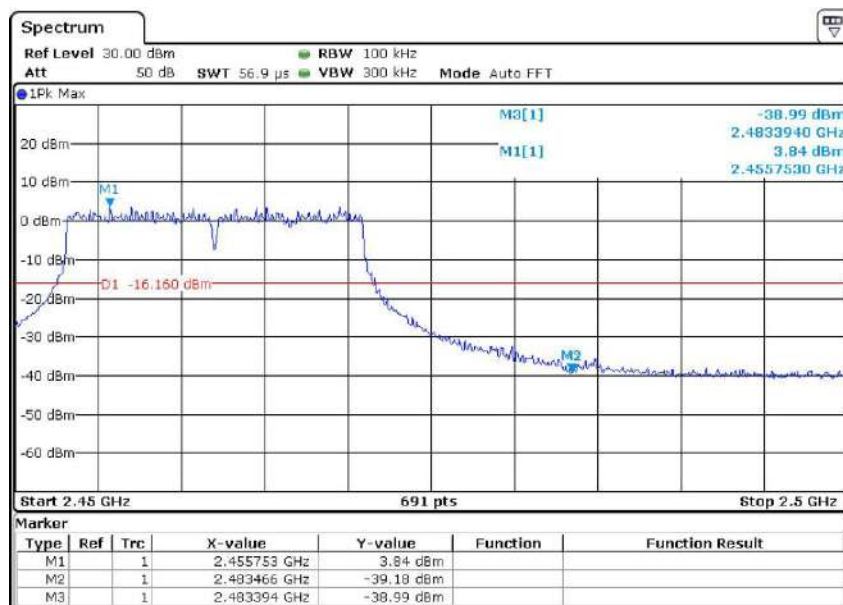
802.11n(HT20) mode with 72.2Mbps data rate

Channel1: 2.412 GHz



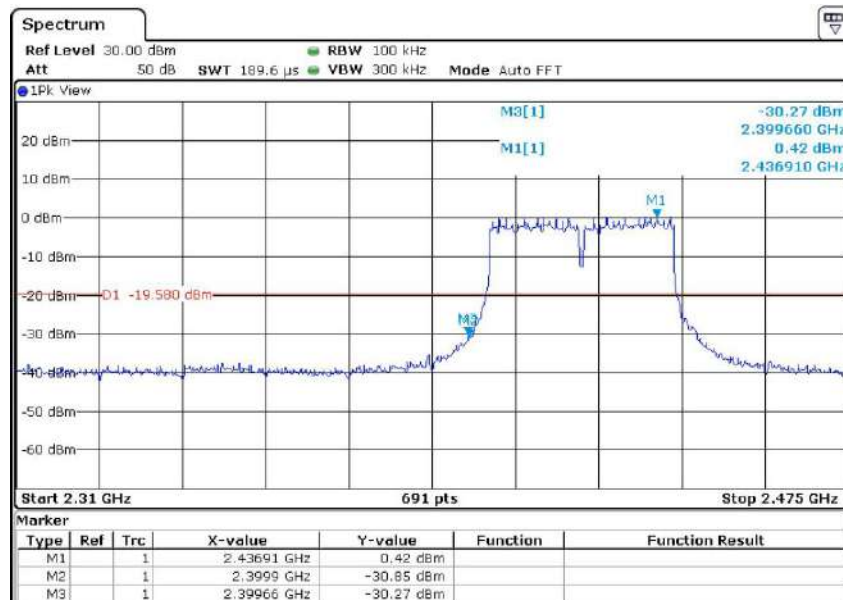
802.11n(HT20) mode with 72.2Mbps data rate

Channel1: 2.462 GHz



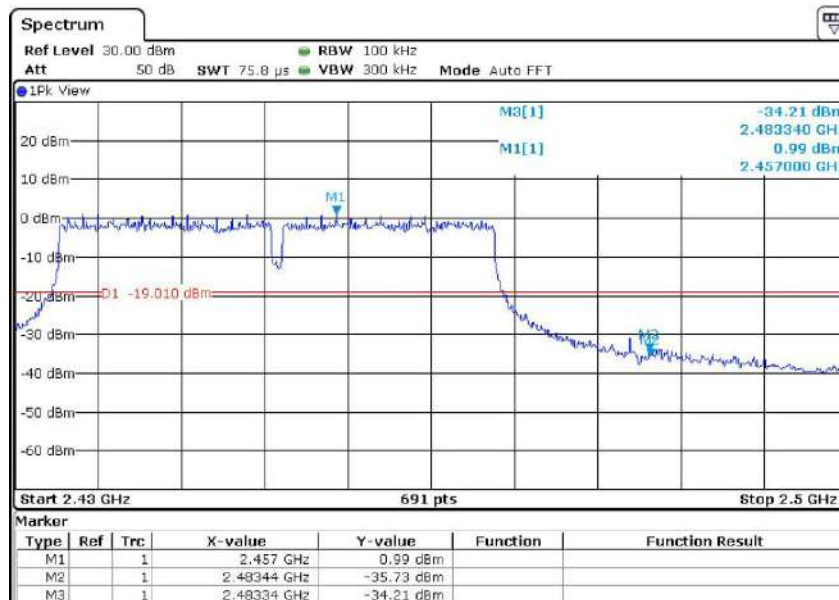
802.11n(HT40) mode with 150Mbps data rate

Channel 3: 2.422 GHz



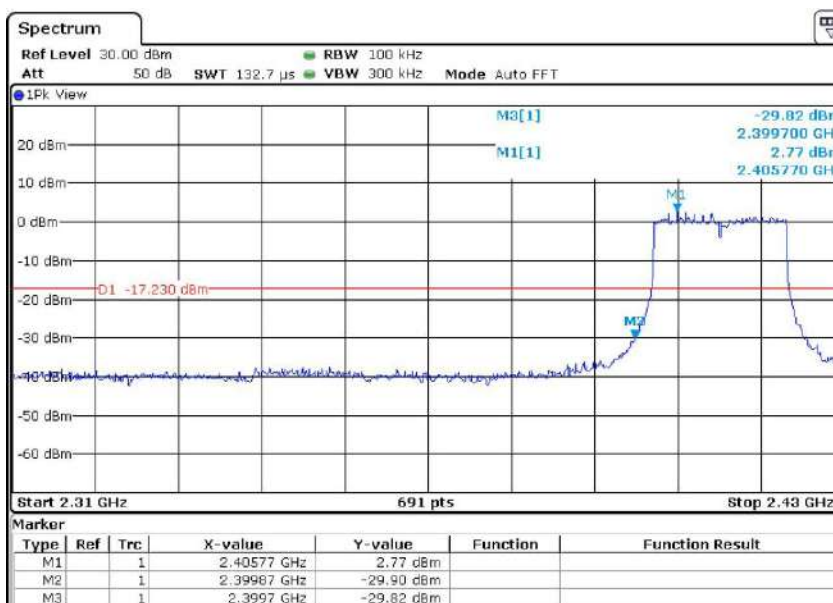
802.11n(HT40) mode with 150Mbps data rate

Channel 9: 2.452 GHz

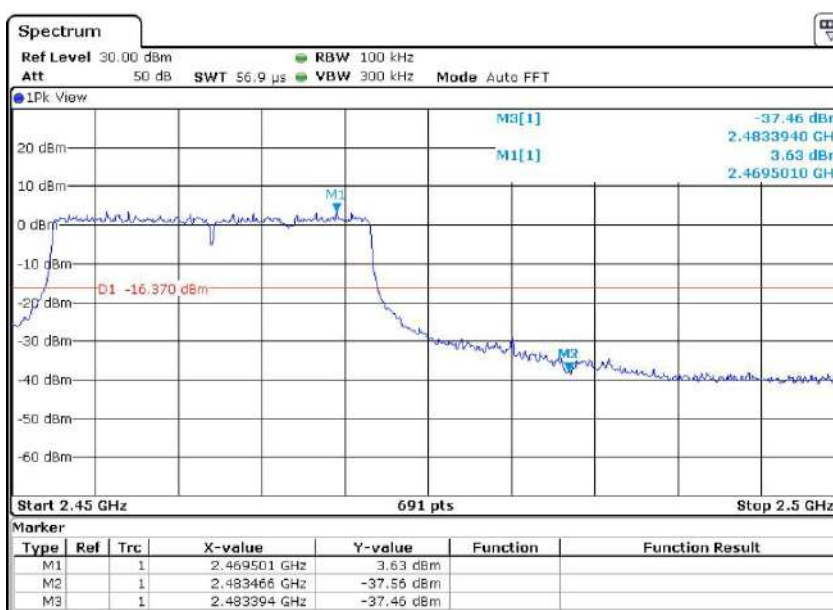


802.11ax(HE20) mode with MCS11 data rate

Channel1: 2.412 GHz

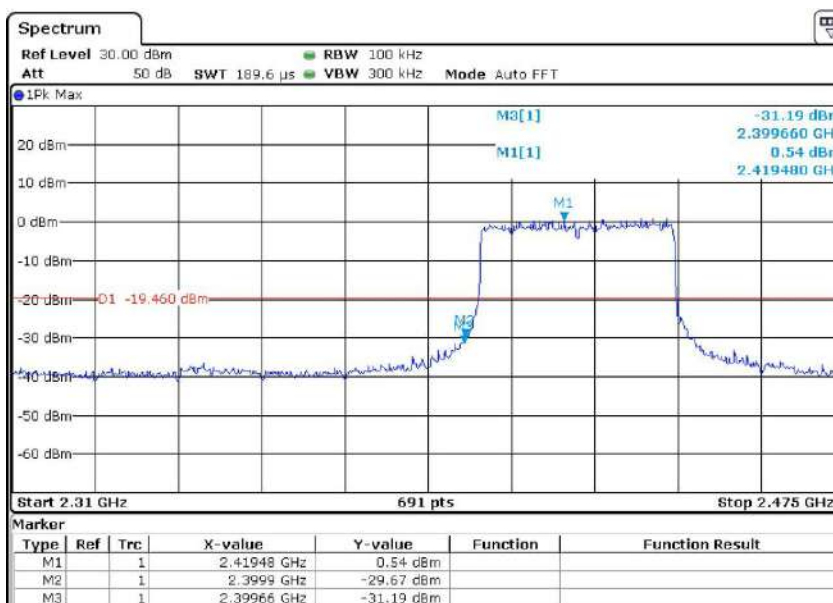


Channel11: 2.462 GHz

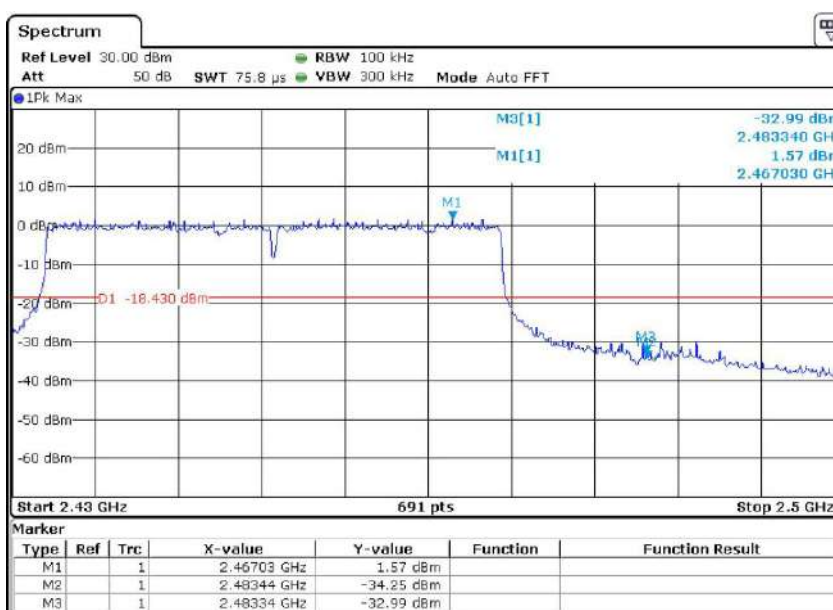


802.11ax (HE40) mode with MCS11 data rate

Channel 3: 2.422 GHz



Channel 9: 2.452 GHz



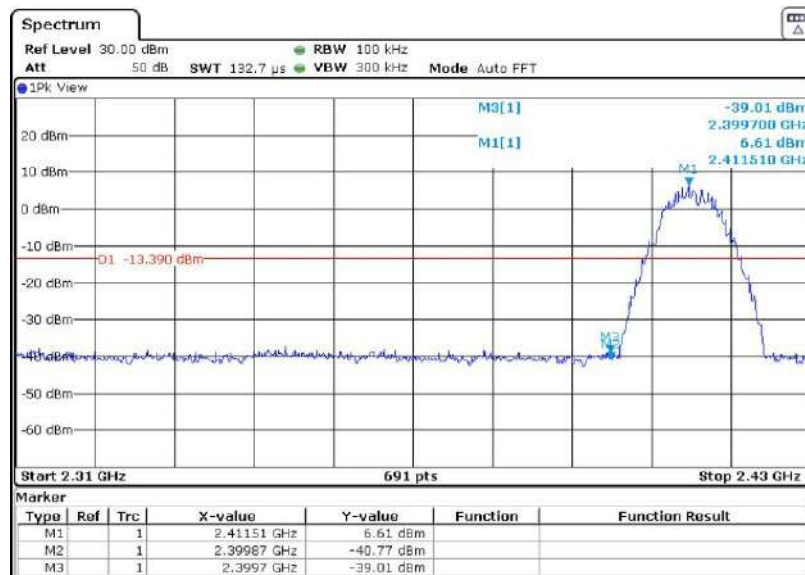
Test result with plots as follows: Chain 1

Compare with the output power of the lowest frequency, the Lower Edges attenuated more than 20dB

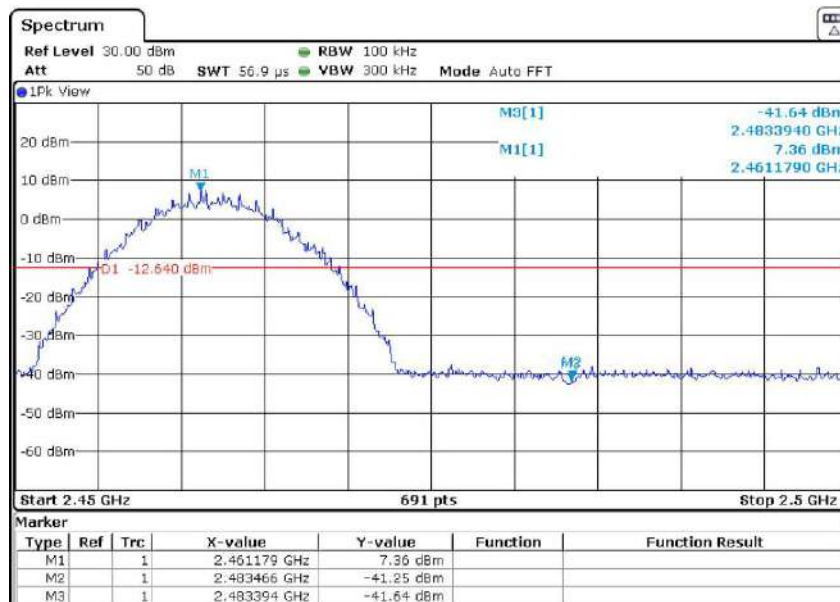
Compare with the output power of the highest frequency, the Upper Edges attenuated more than 20dB.

802.11b mode with 11Mbps data rate

Channel1: 2.412 GHz

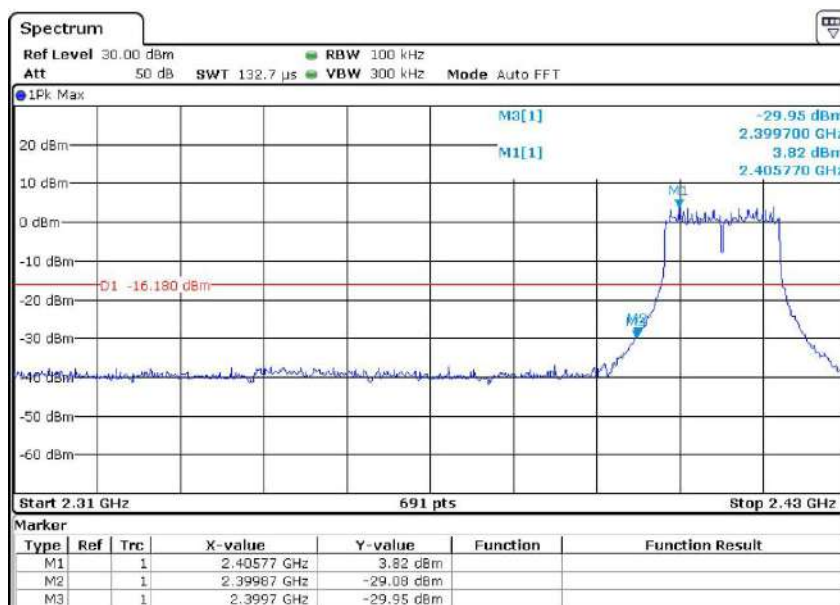


Channel11: 2.462 GHz



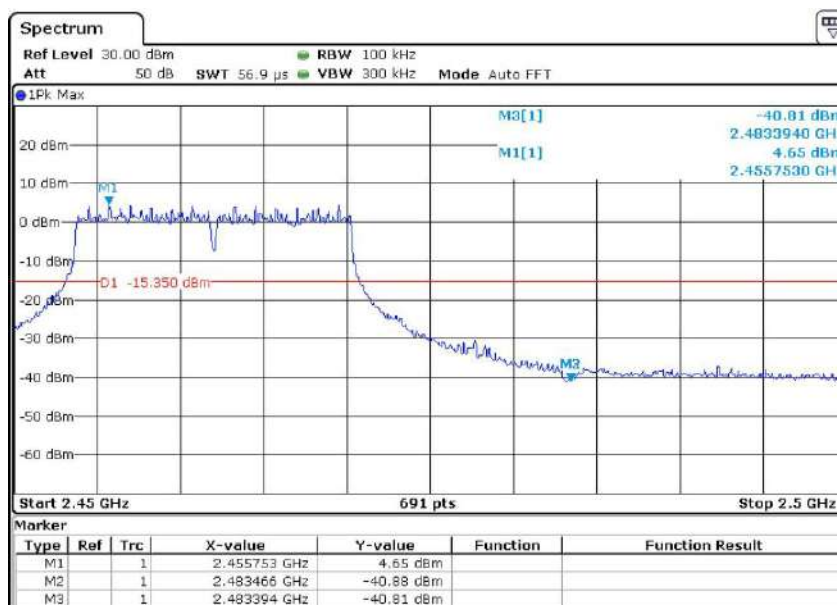
802.11g mode with 54 Mbps data rate

Channel1: 2.412 GHz



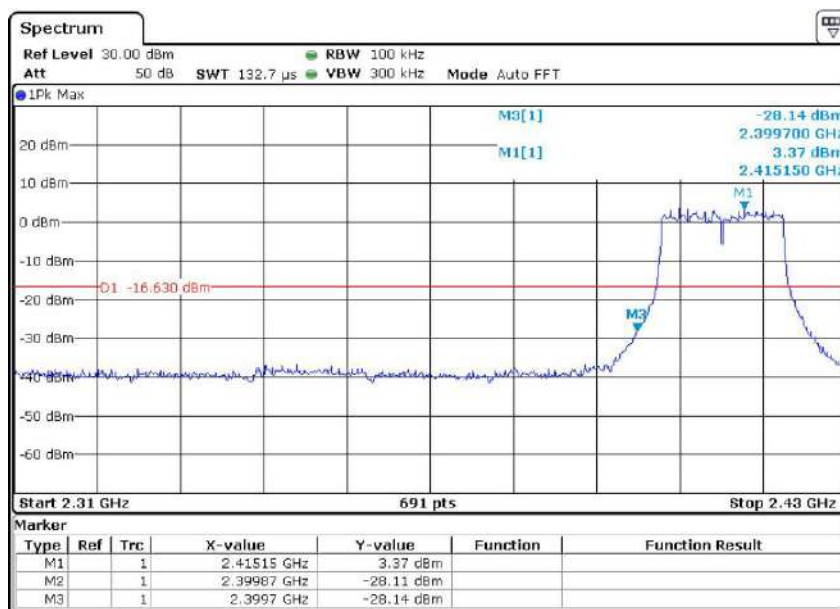
802.11g mode with 54 Mbps data rate

Channel11: 2.462 GHz



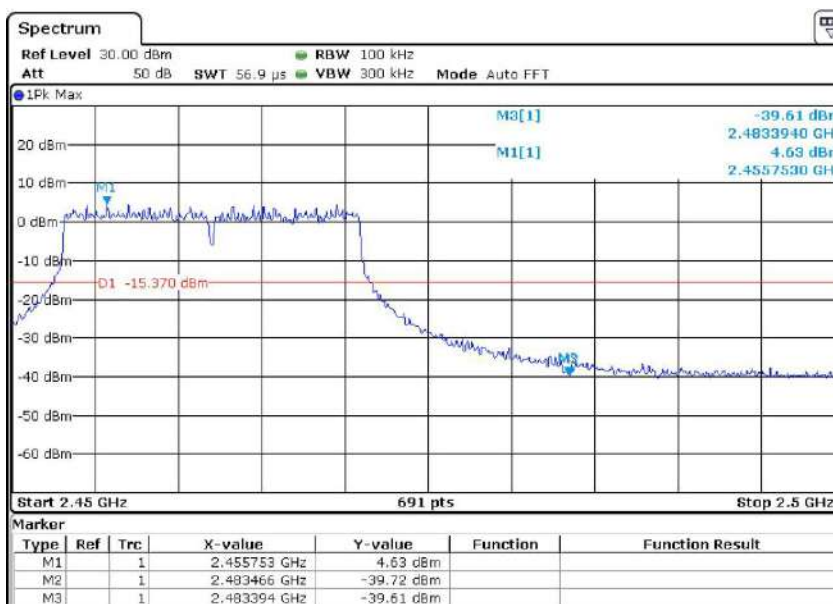
802.11n(HT20) mode with 72.2Mbps data rate

Channel1: 2.412 GHz



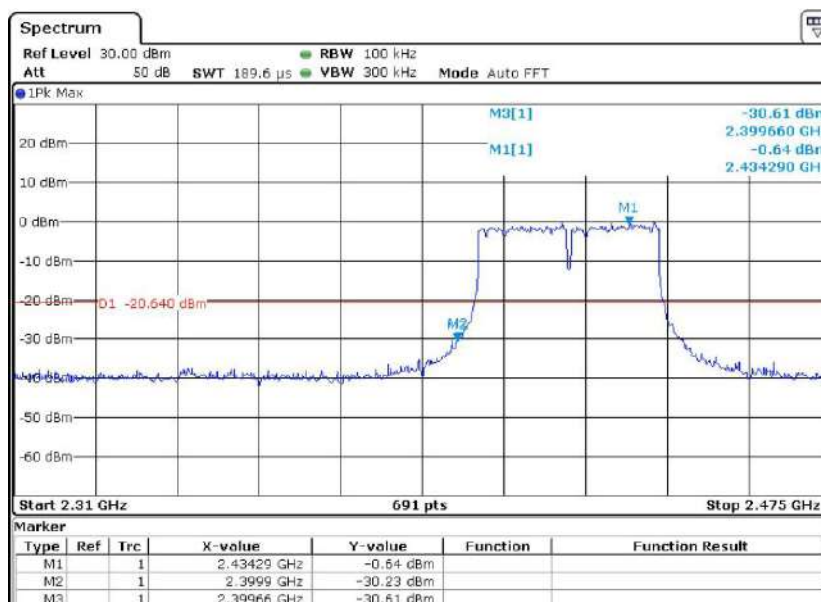
802.11n(HT20) mode with 72.2Mbps data rate

Channel11: 2.462 GHz



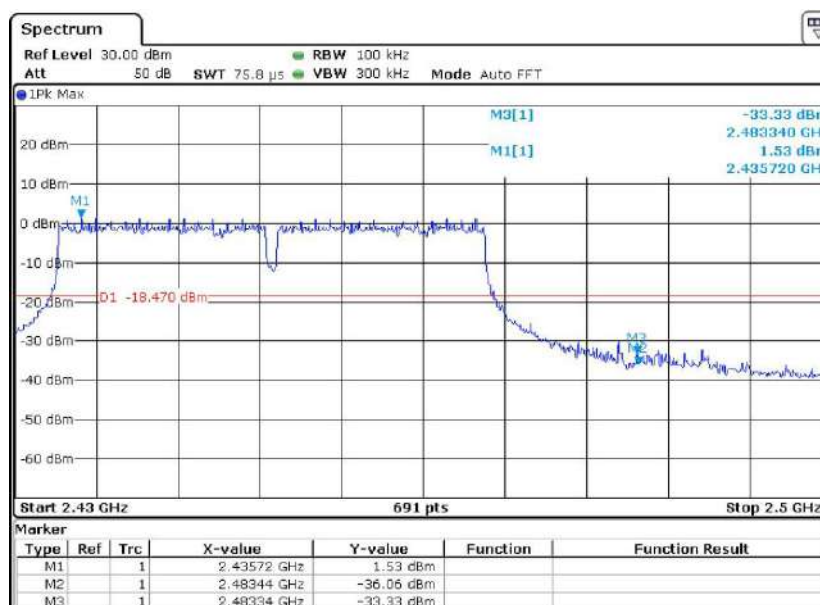
802.11n(HT40) mode with 150Mbps data rate

Channel 3: 2.422 GHz



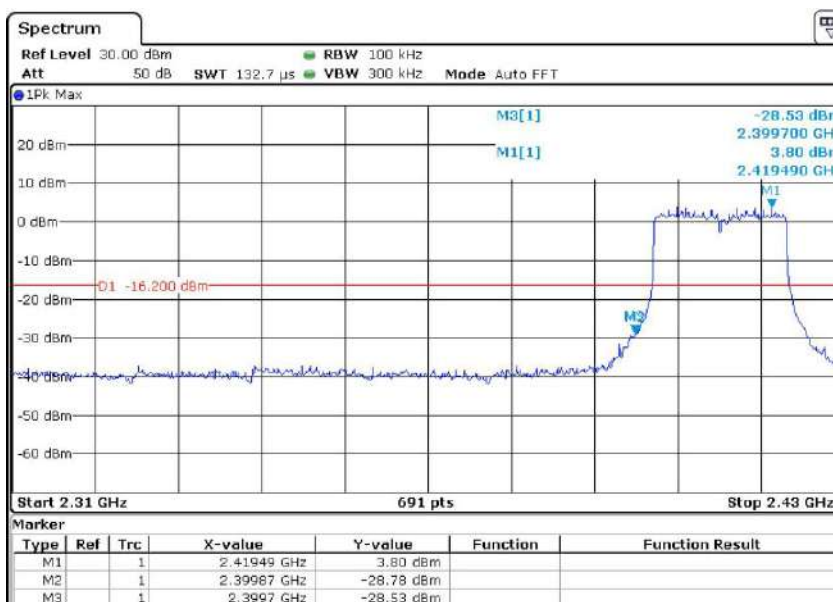
802.11n(HT40) mode with 150Mbps data rate

Channel 9: 2.452 GHz

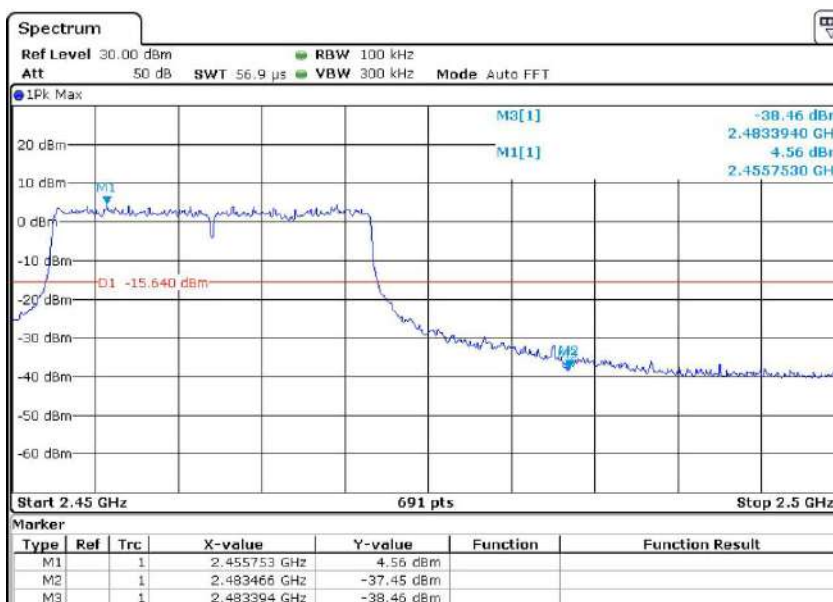


802.11ax (HE20) mode with MCS11 data rate

Channel1: 2.412 GHz

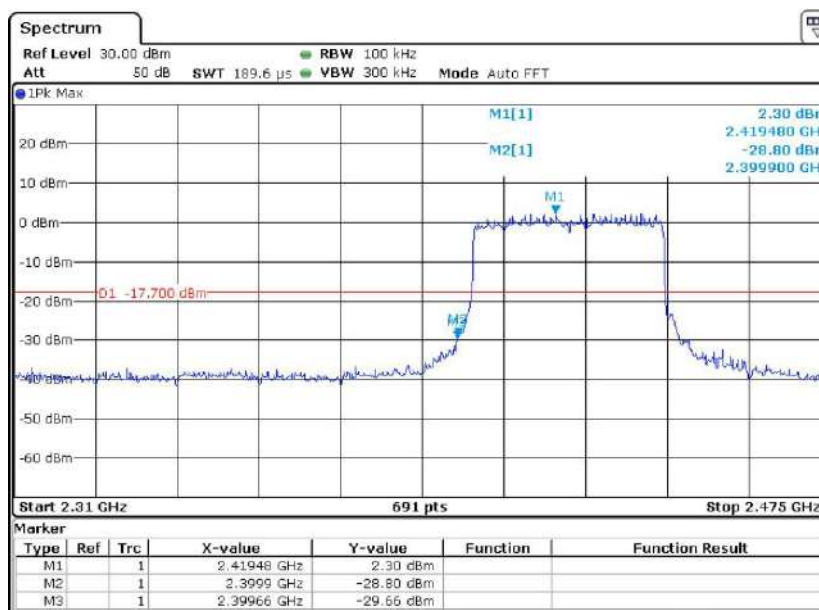


Channel1: 2.462 GHz

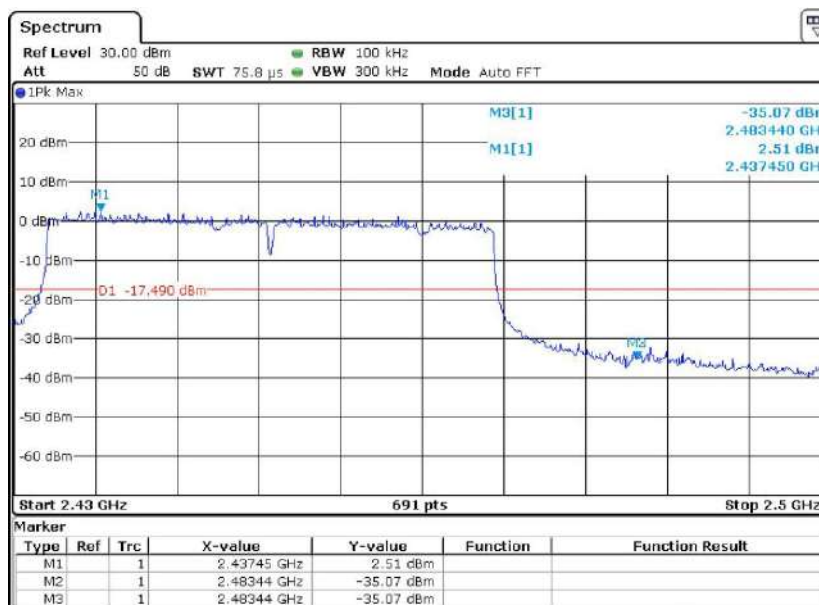


802.11ax (HE40) mode with MCS11 data rate

Channel 3: 2.422 GHz



Channel 9: 2.452 GHz



7.9 Conducted Spurious Emissions

Test Requirement:

FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method:

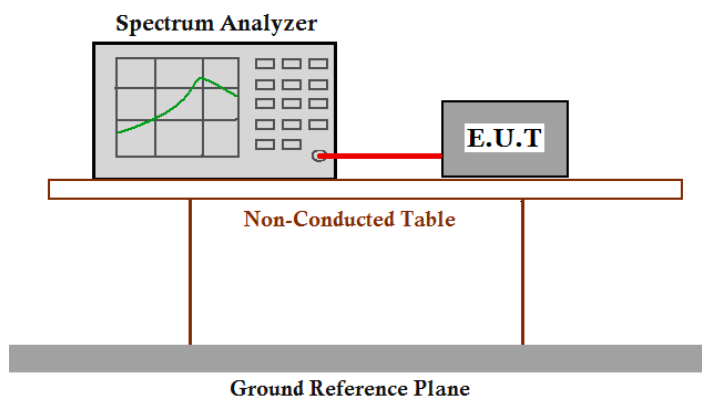
ANSI C63.10: Clause 6.7

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Pre-Test the EUT using external Standard DC power source for powering on the board.

Test Configuration:



Test Procedure:

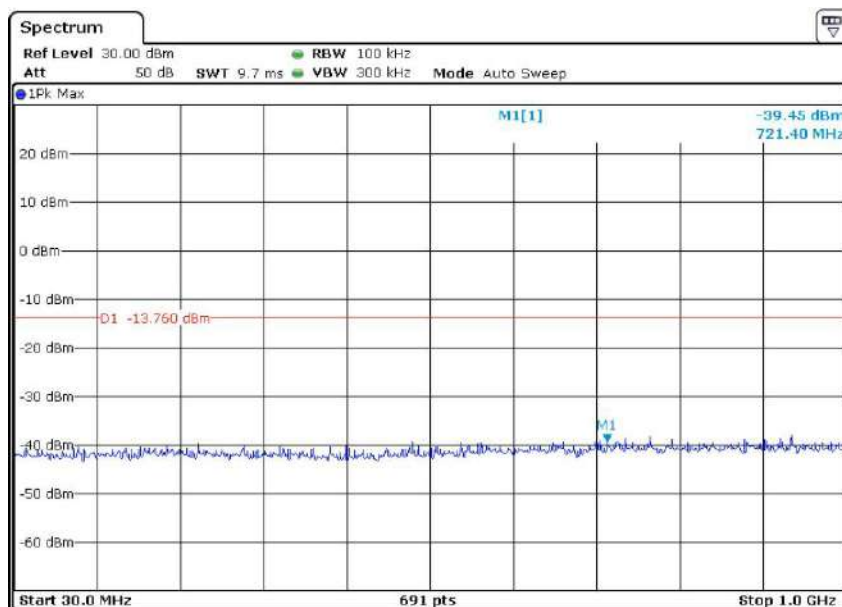
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse case.

Result plot as follows: Chain 0

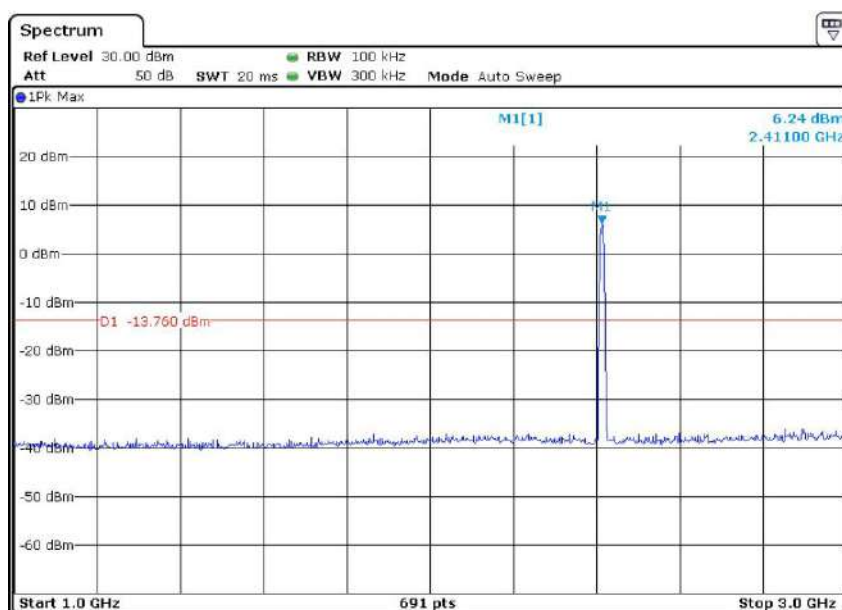
802.11b mode with 11Mbps data rate

Channel 1: 2.412GHz:

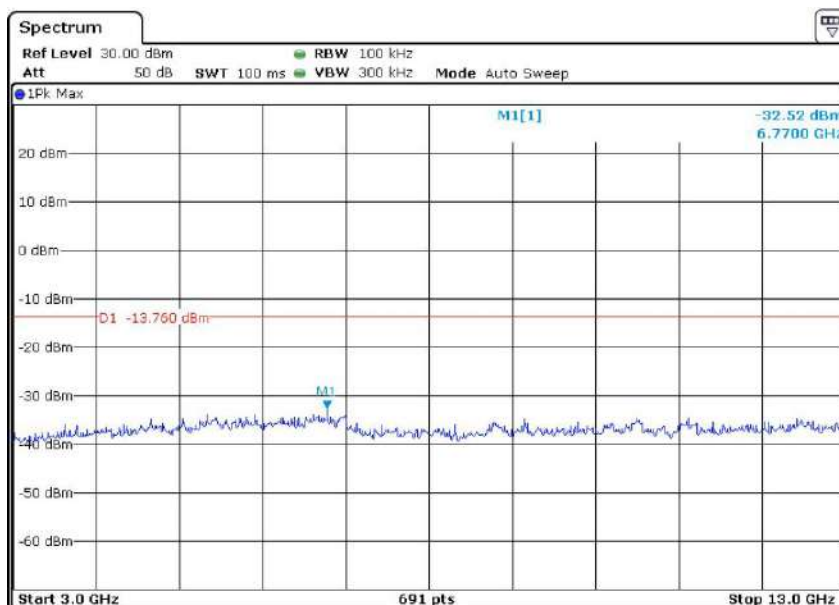
30 MHz to 1 GHz



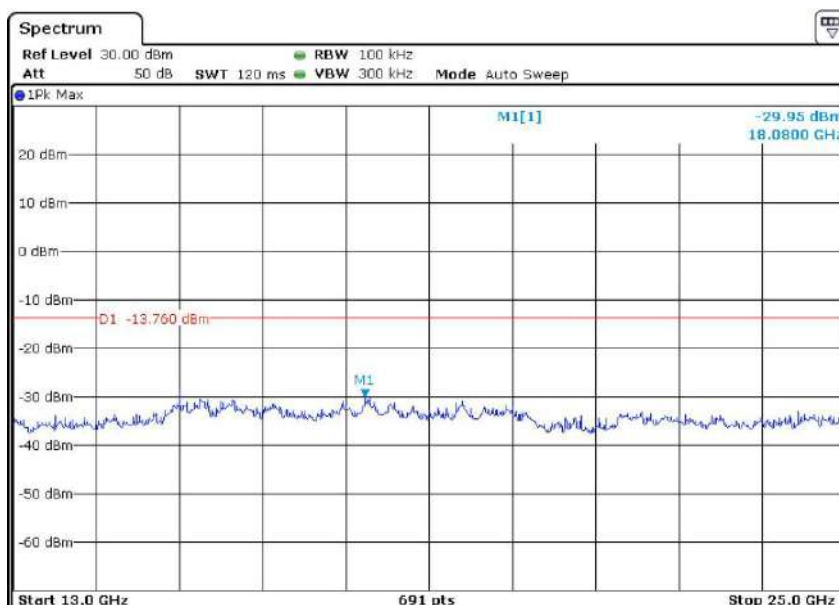
1 G to 3 GHz



3 G to 13 GHz

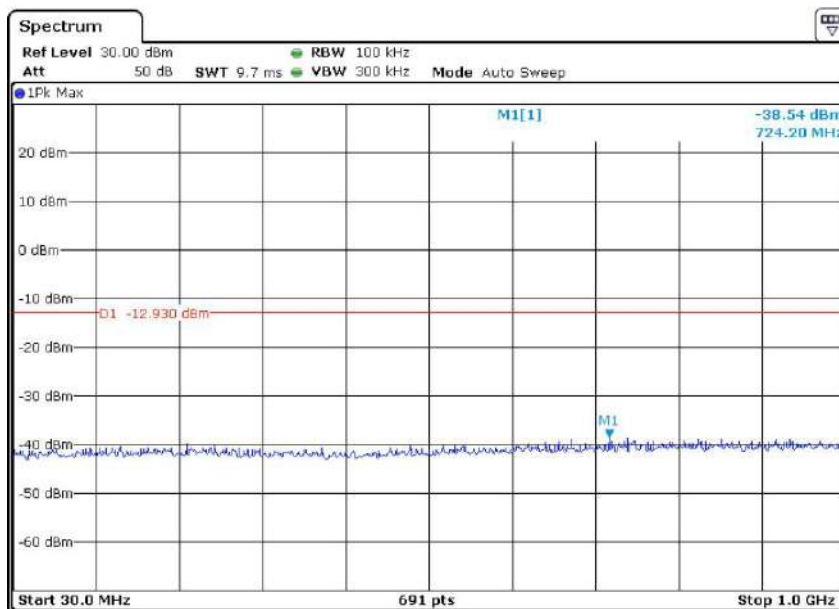


13 G to 25 GHz

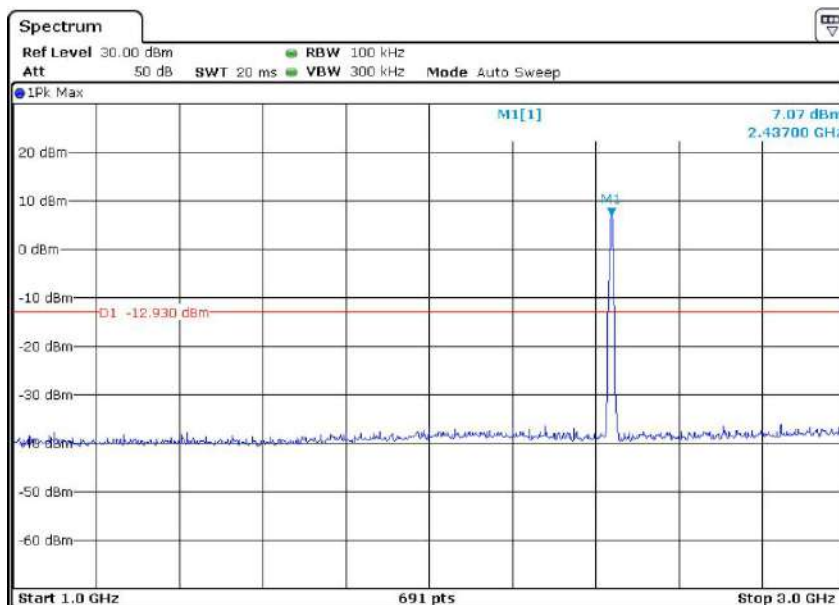


Channel 6: 2.437GHz:

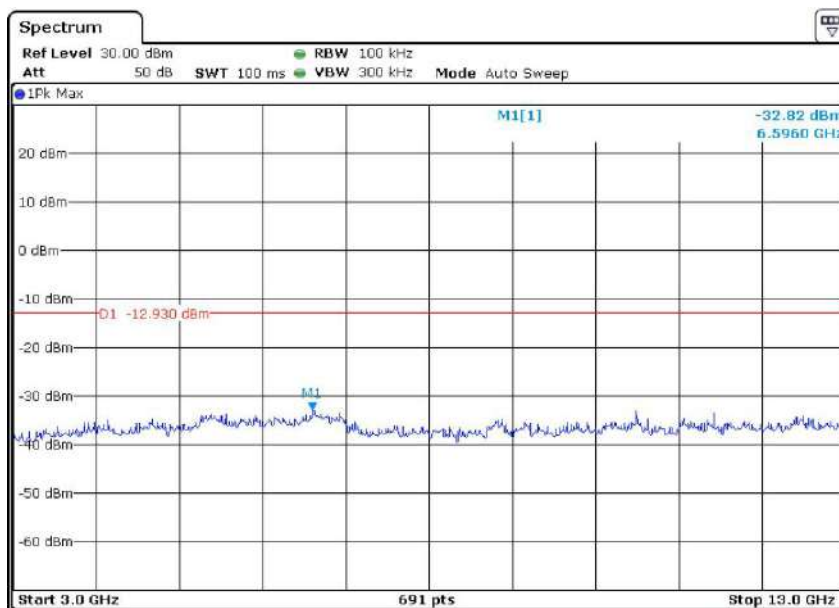
30 MHz to 1 GHz



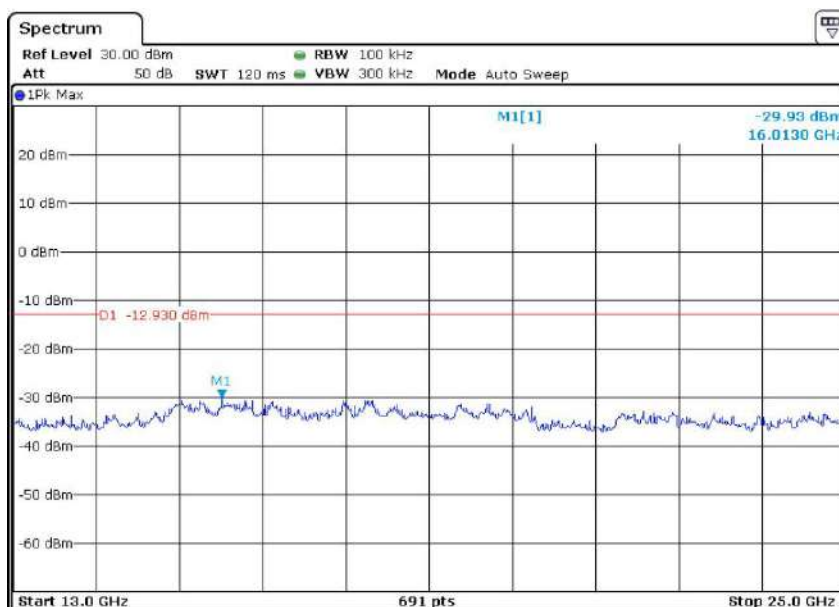
1 G to 3 GHz



3 G to 13 GHz

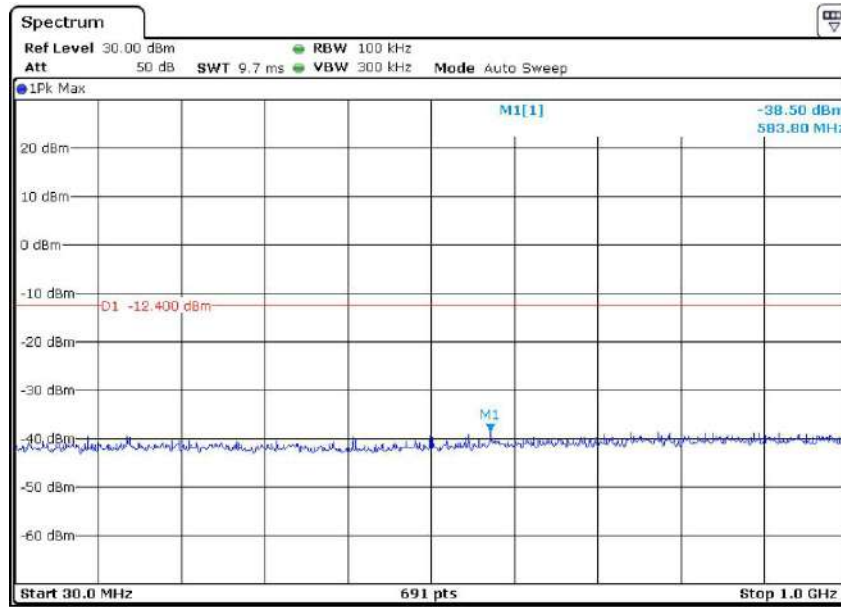


13 G to 25 GHz

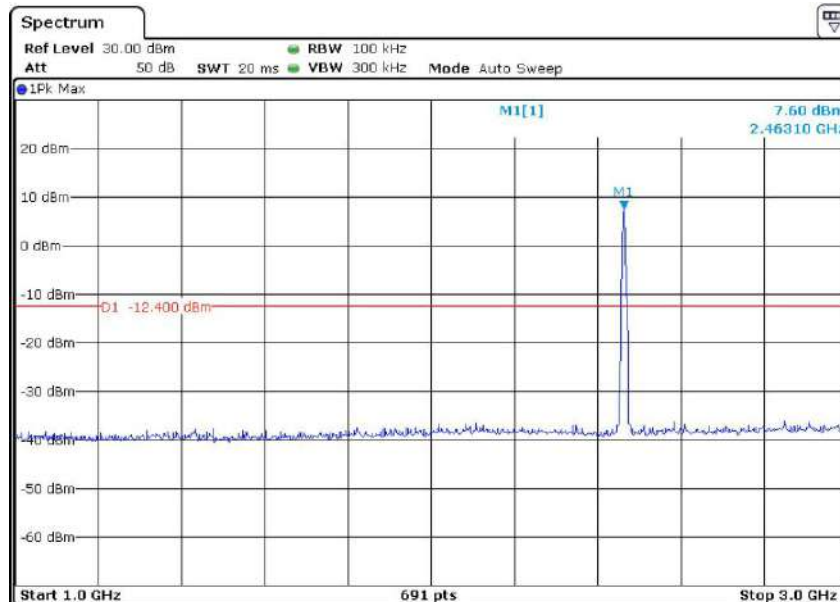


Channel 11:2.462 GHz

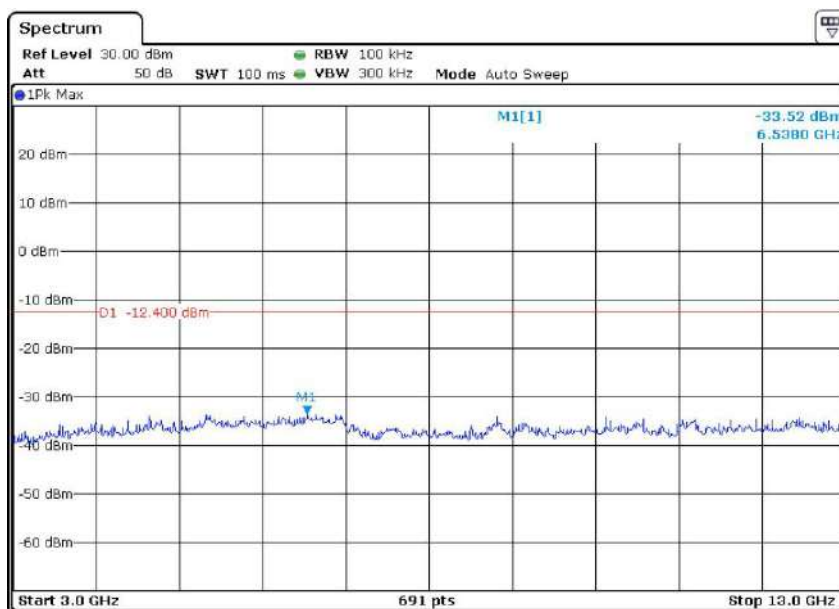
30 MHz to 1 GHz



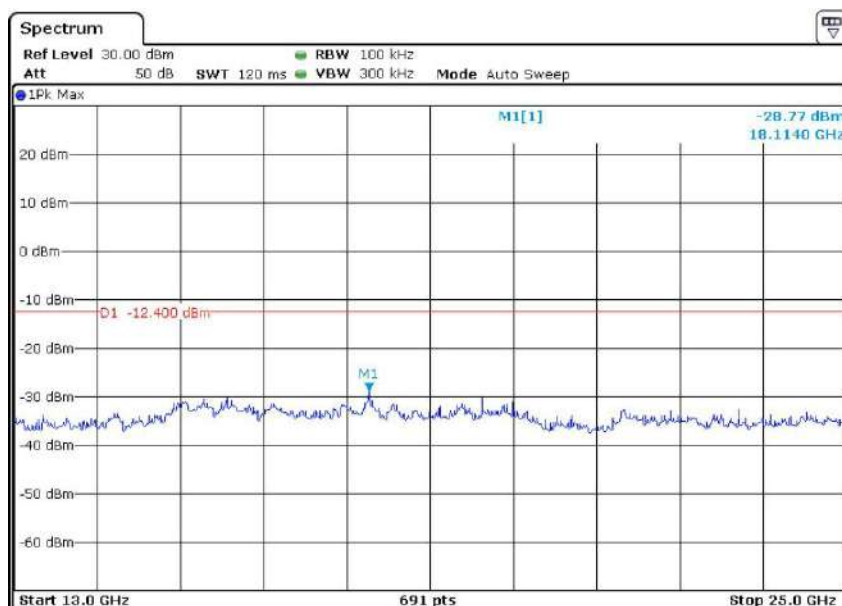
1 G to 3 GHz



3 G to 13 GHz



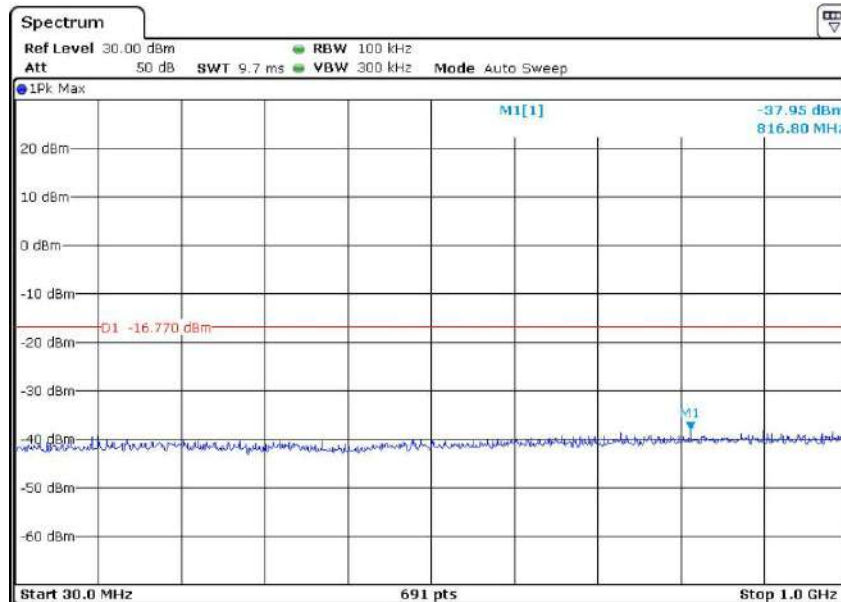
13 G to 25 GHz



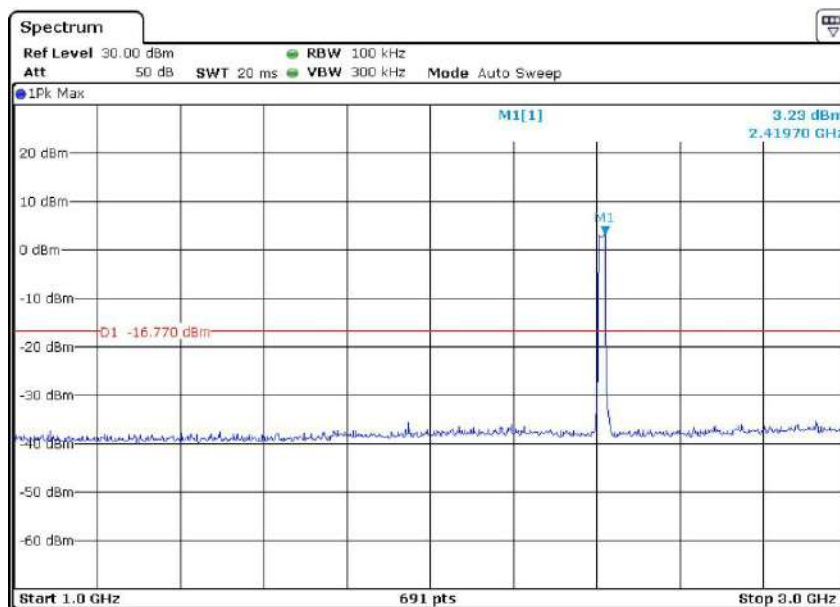
802.11g mode with 54Mbps data rate

Channel 1: 2.412GHz:

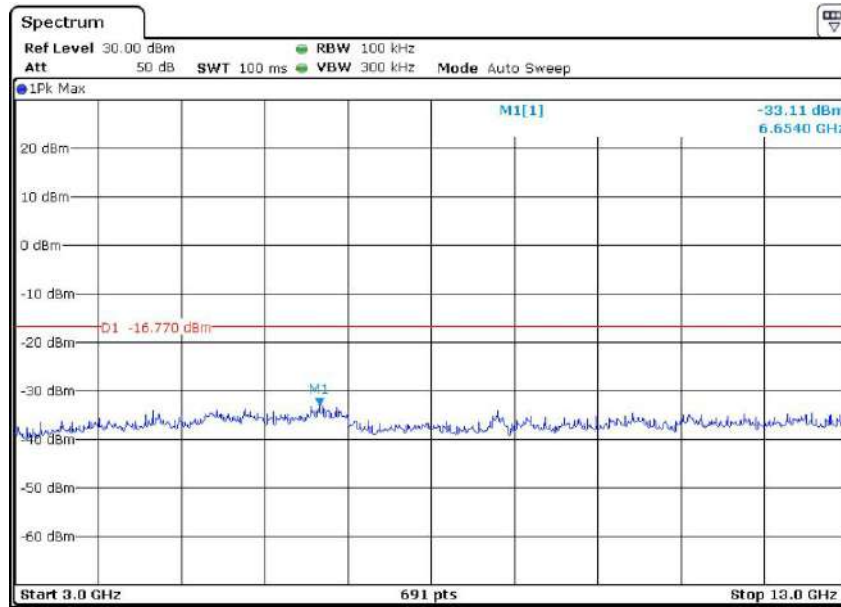
30 MHz to 1 GHz



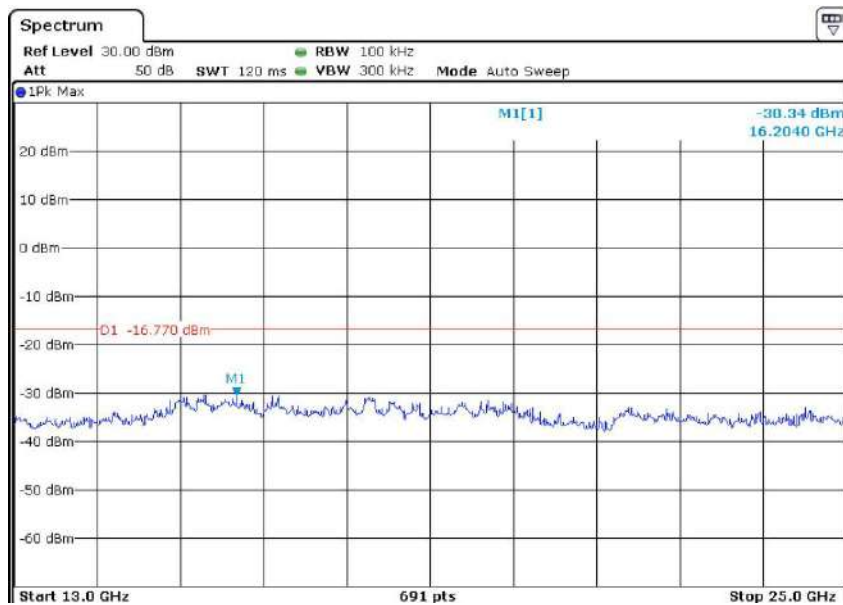
1 G to 3 GHz



3 G to 13 GHz

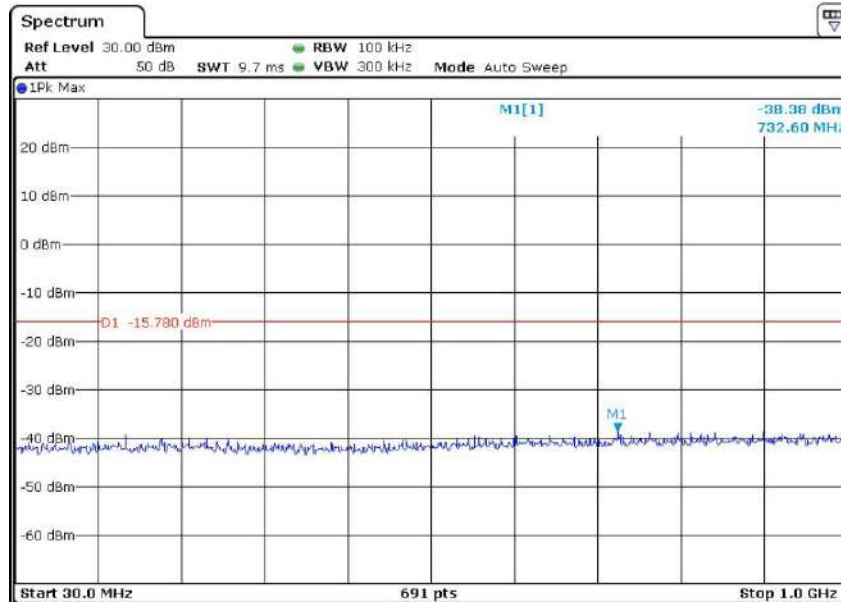


13 G to 25 GHz

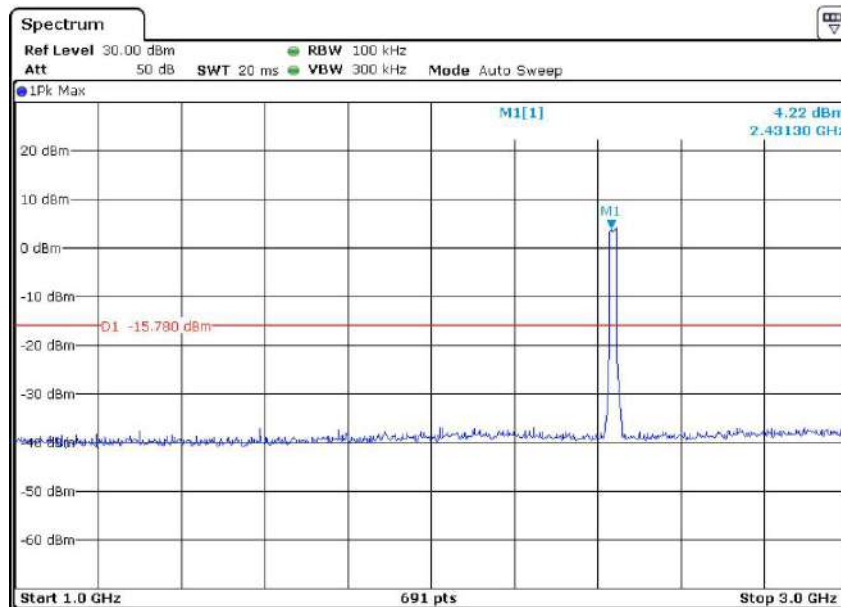


Channel 6: 2.437GHz:

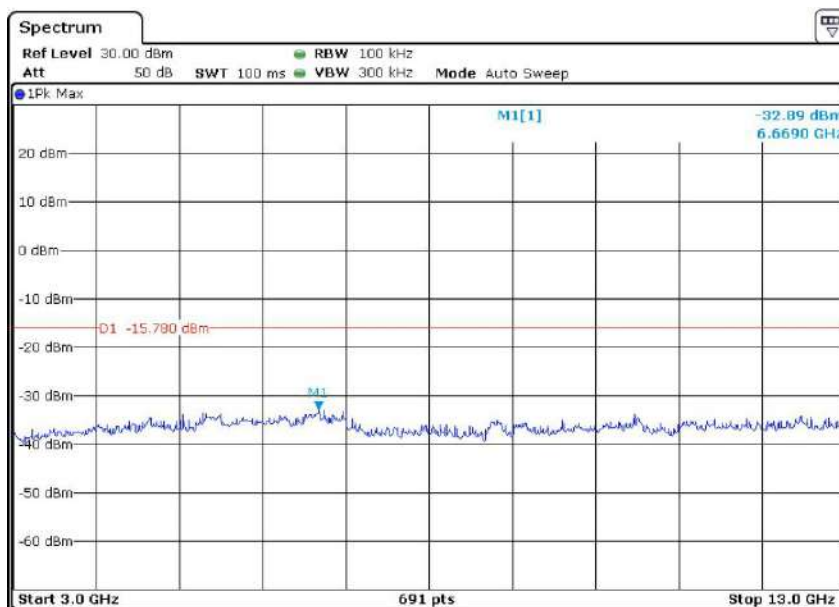
30 MHz to 1 GHz



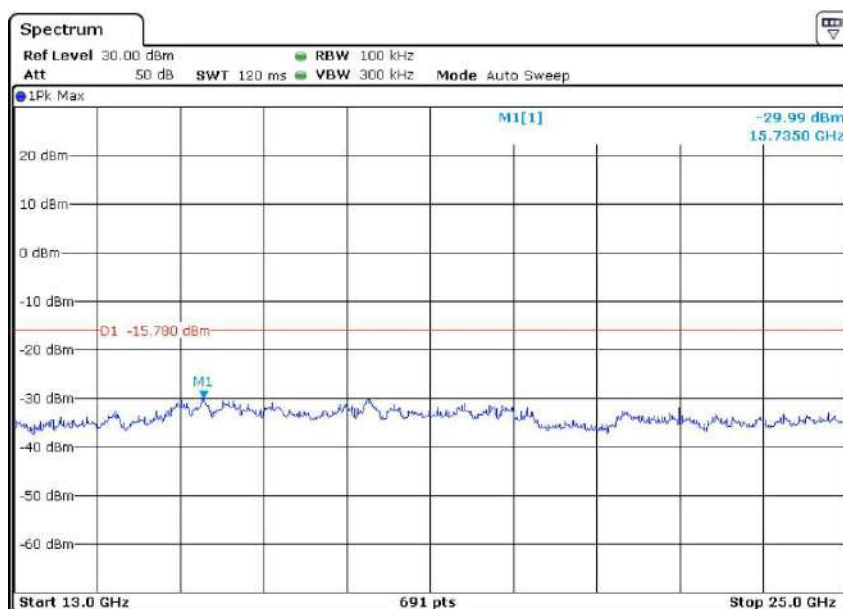
1 G to 3 GHz



3 G to 13 GHz

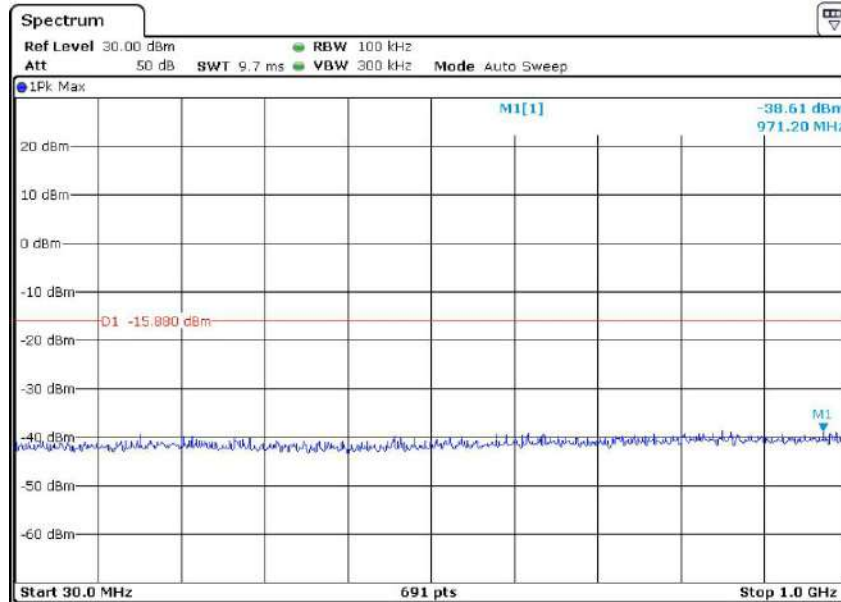


13 G to 25 GHz

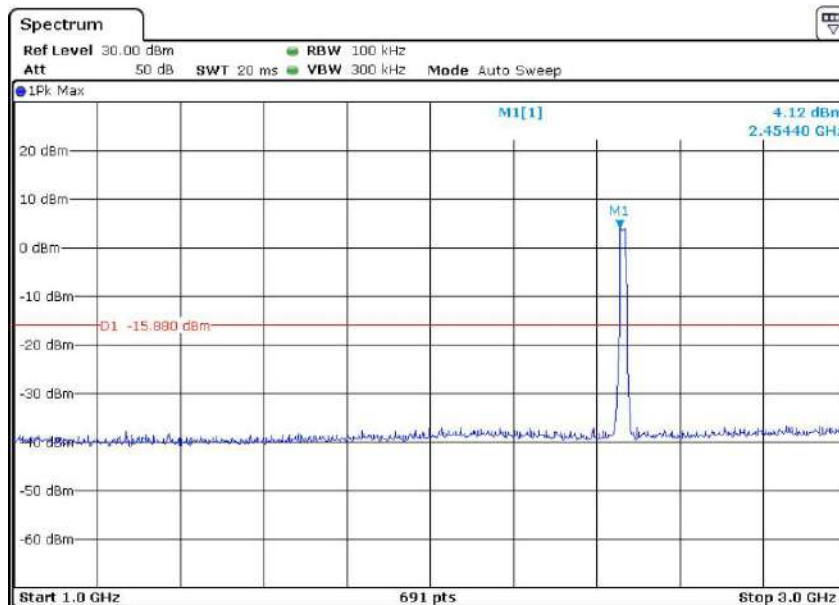


Channel 11:2.462 GHz

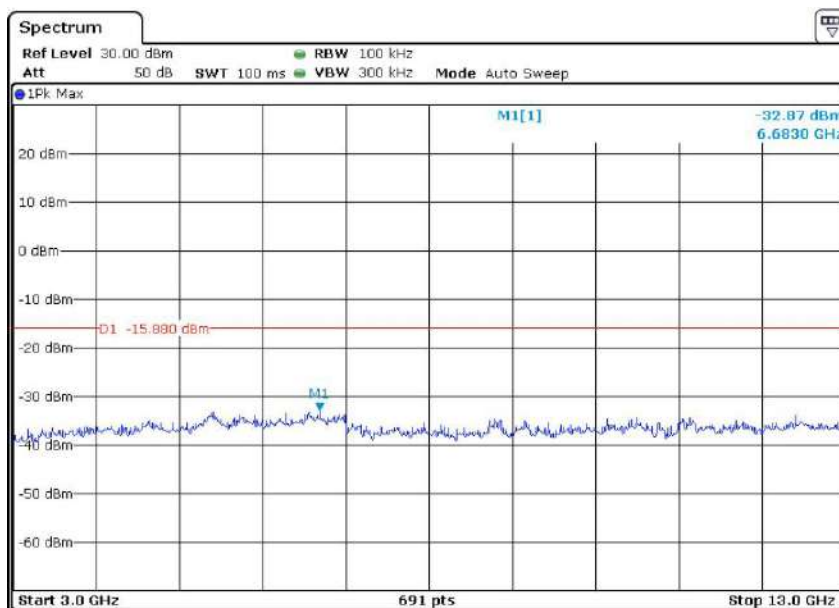
30 MHz to 1 GHz



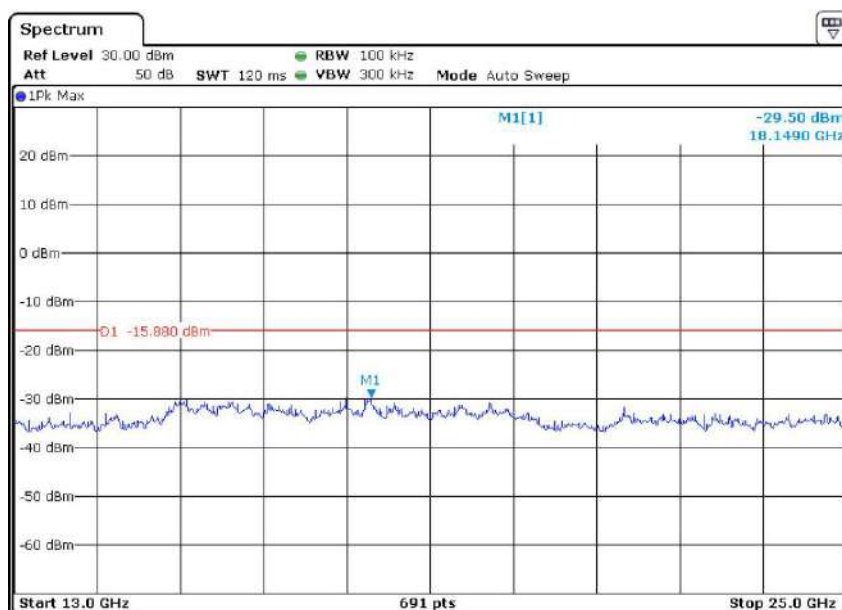
1 G to 3 GHz



3 G to 13 GHz



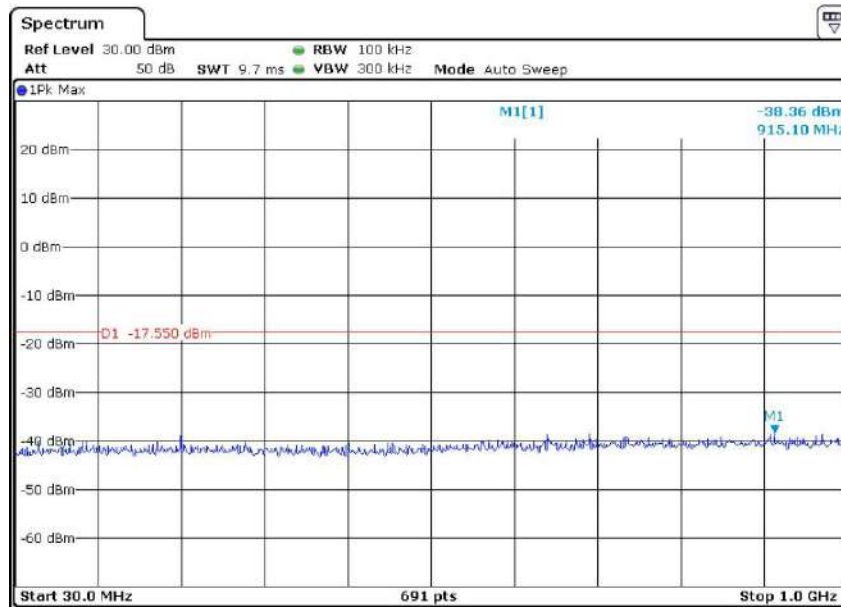
13 G to 25 GHz



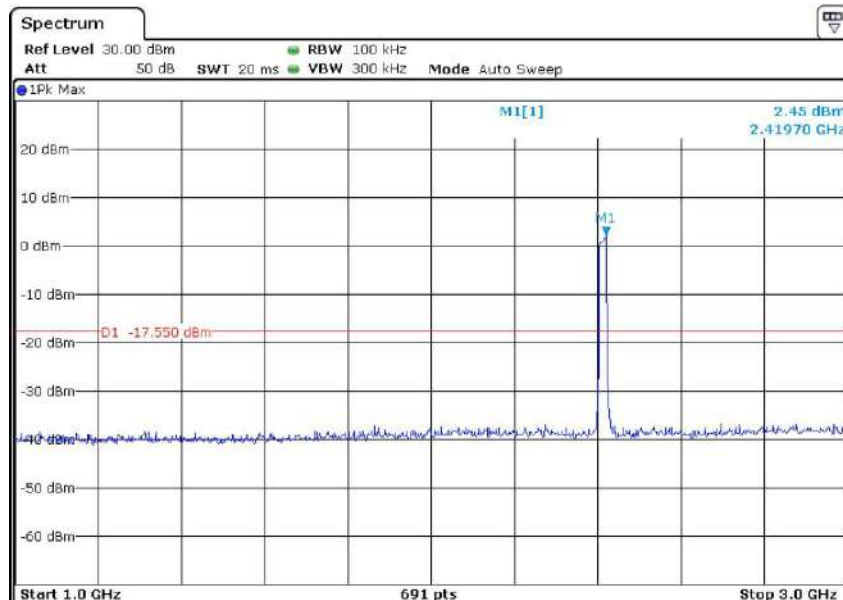
802.11n(HT20) mode with 72.2Mbps data rate

Channel 1: 2.412GHz:

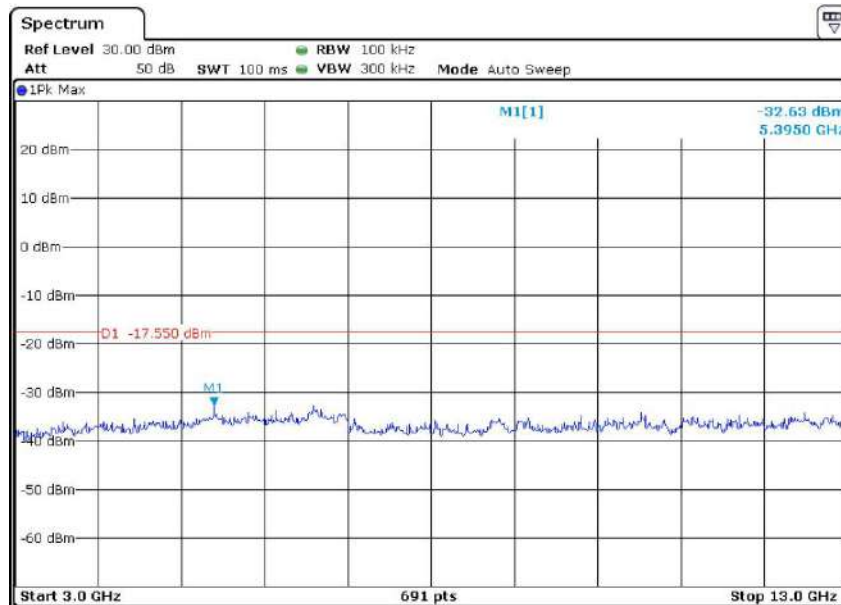
30 MHz to 1 GHz



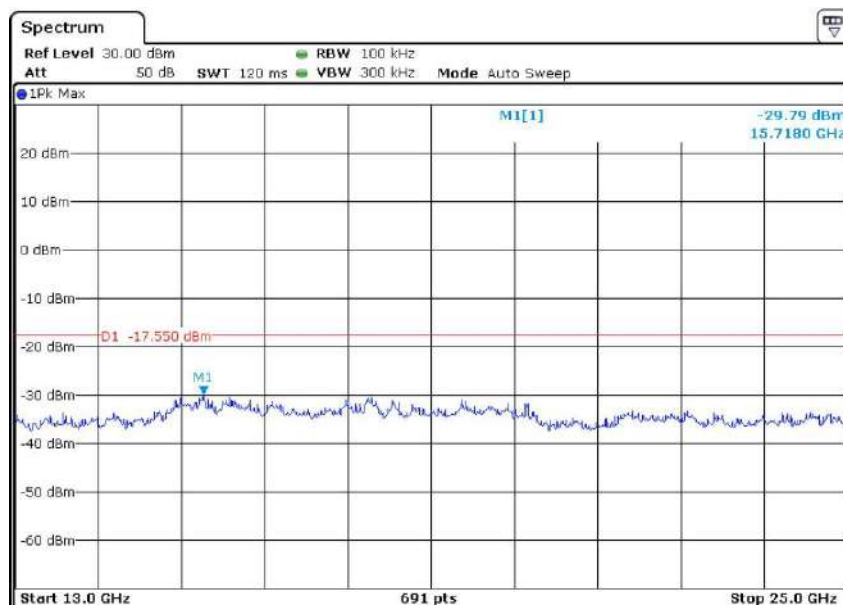
1 G to 3 GHz



3 G to 13 GHz

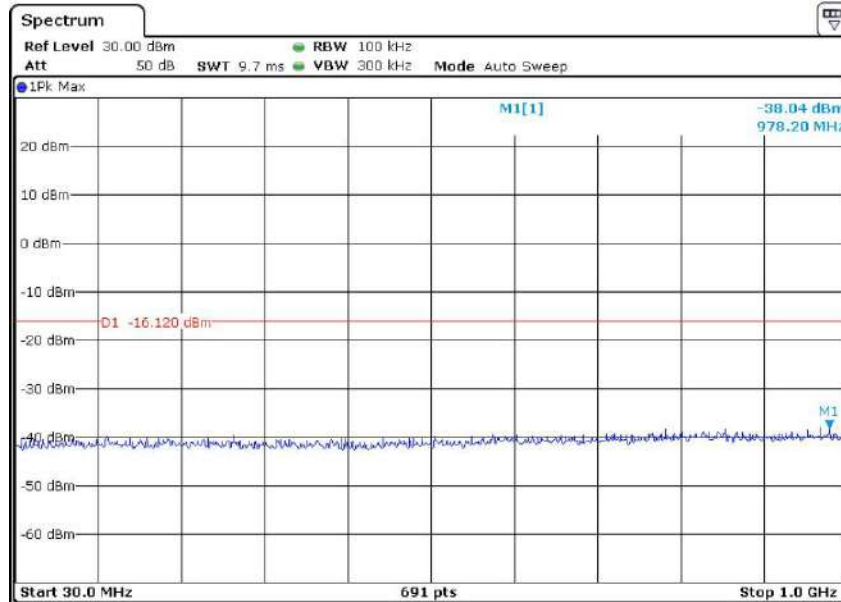


13 G to 25 GHz

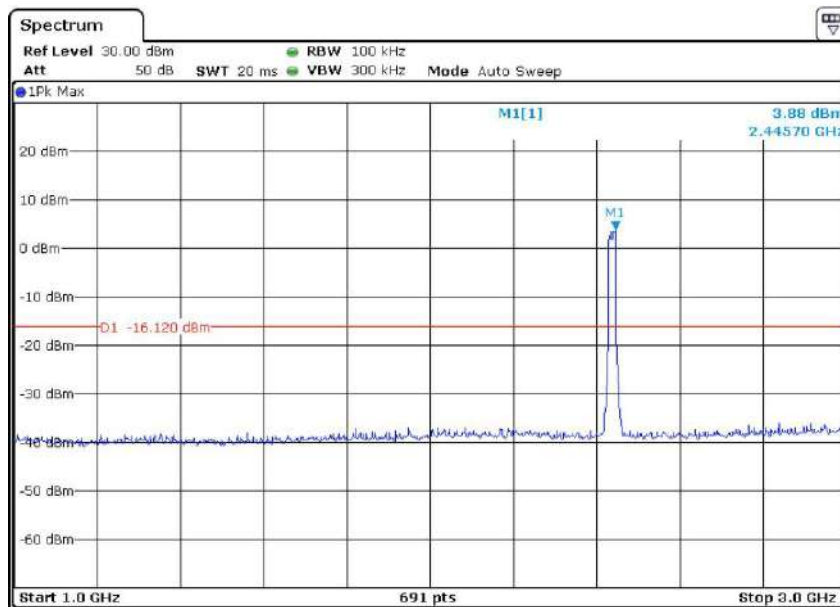


Channel 6: 2.437GHz:

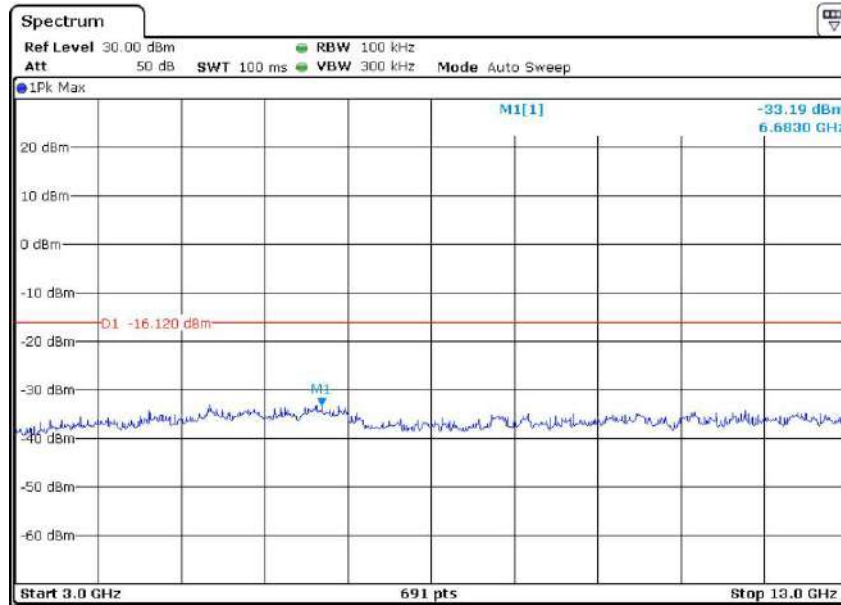
30 MHz to 1 GHz



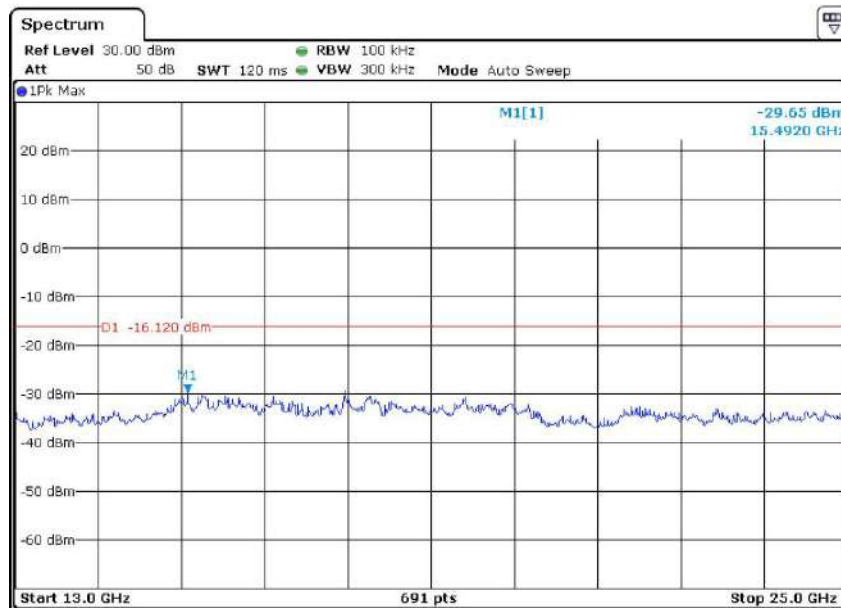
1 G to 3 GHz



3 G to 13 GHz

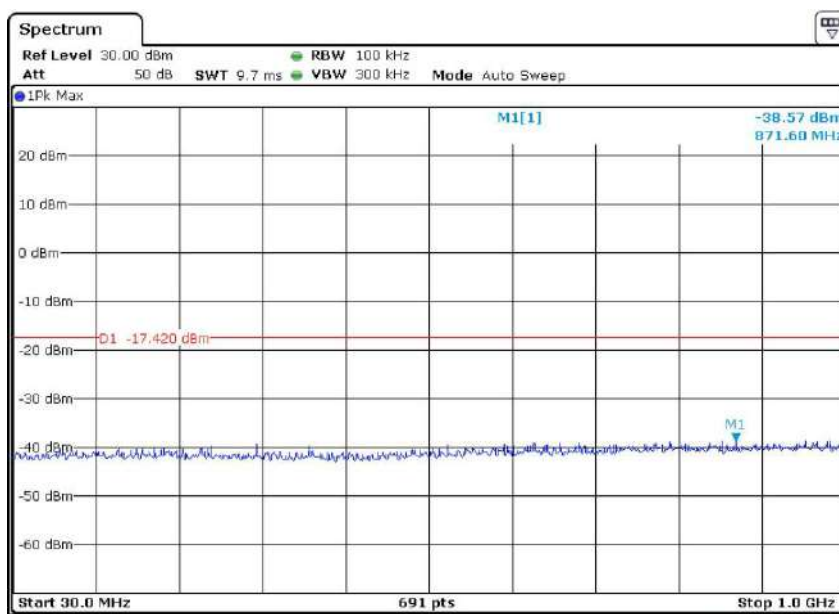


13 G to 25 GHz

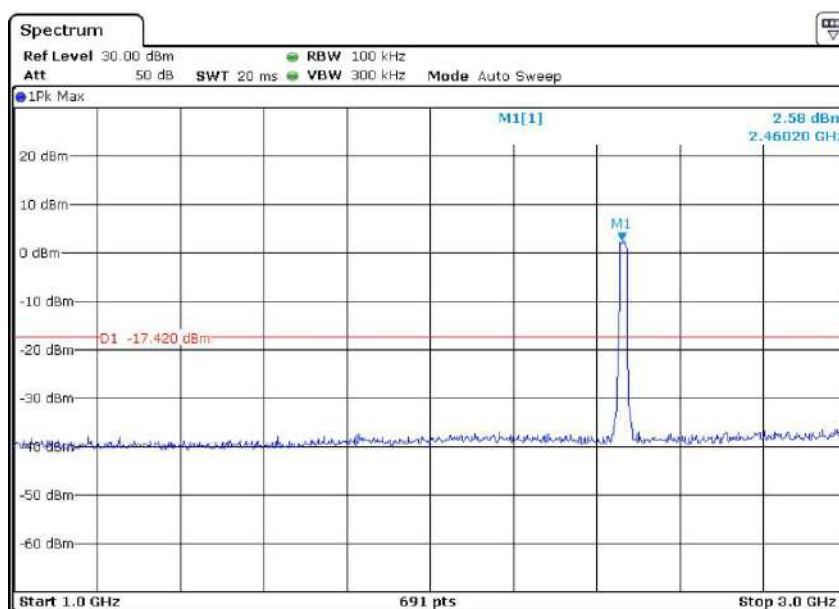


Channel 11:2.462 GHz

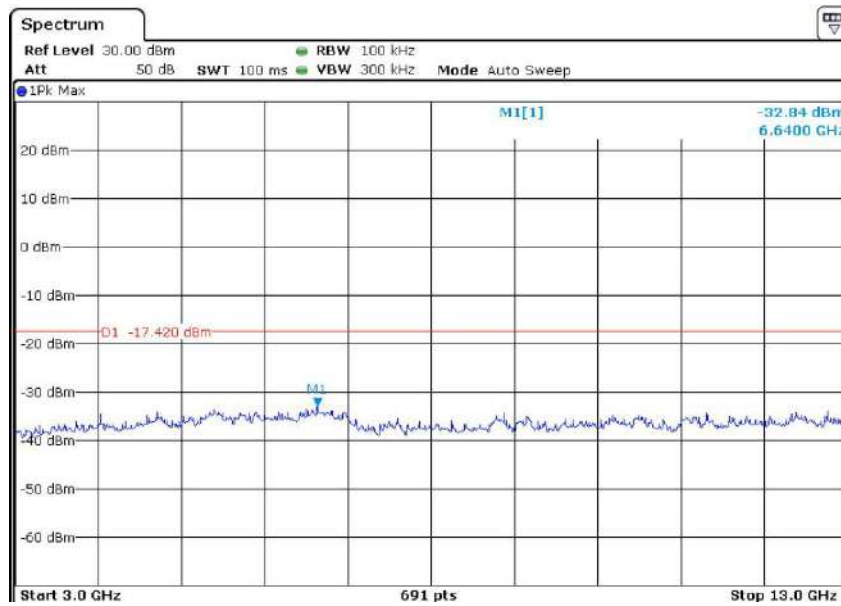
30 MHz to 1 GHz



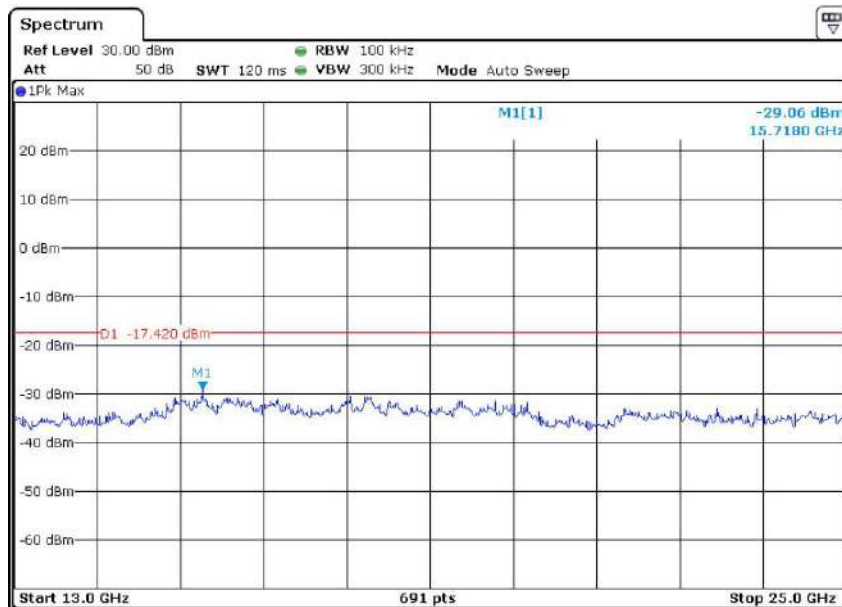
1 G to 3 GHz



3 G to 13 GHz



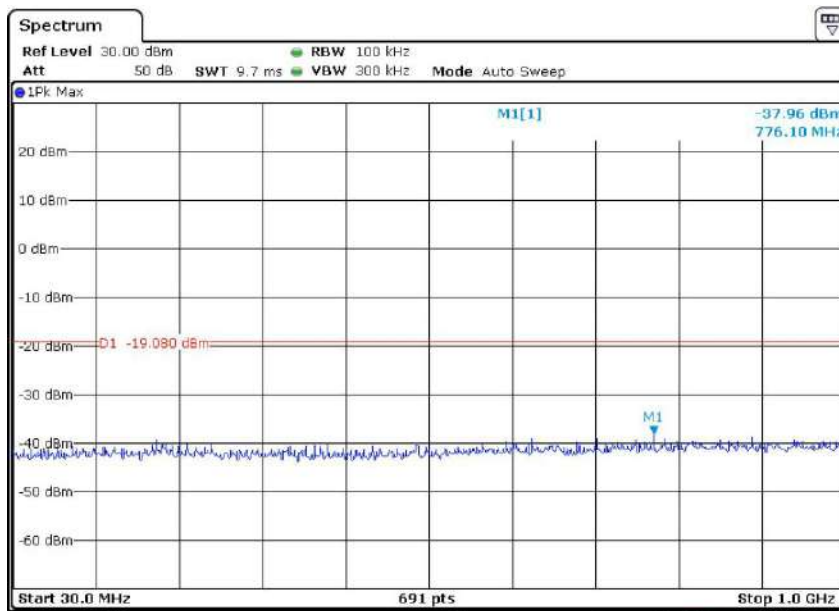
13 G to 25 GHz



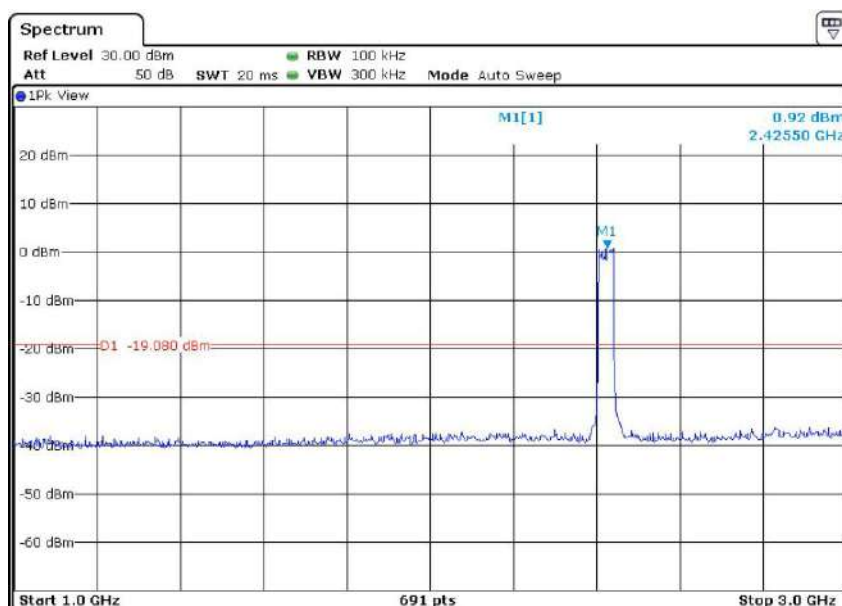
802.11n(HT40) mode with 150Mbps data rate

Channel 3: 2.422GHz:

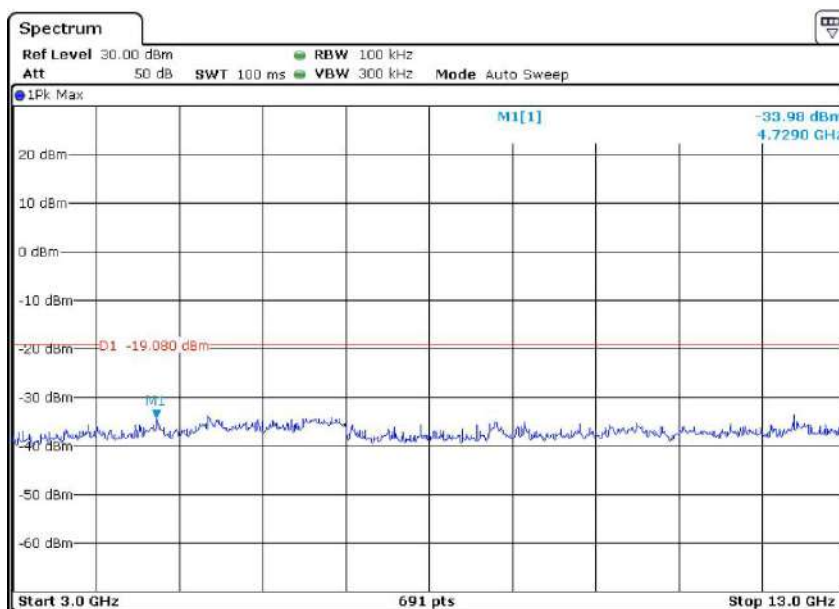
30 MHz to 1 GHz



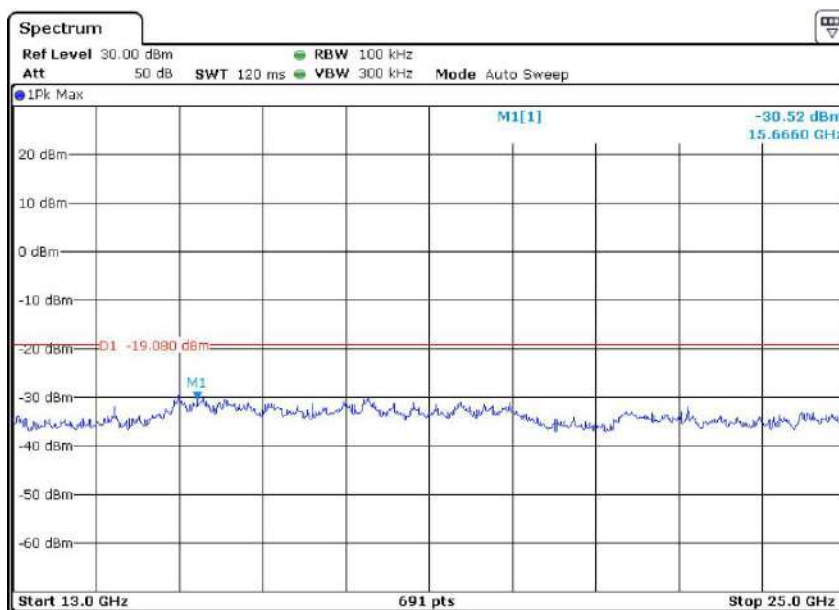
1 G to 3 GHz



3 G to 13 GHz

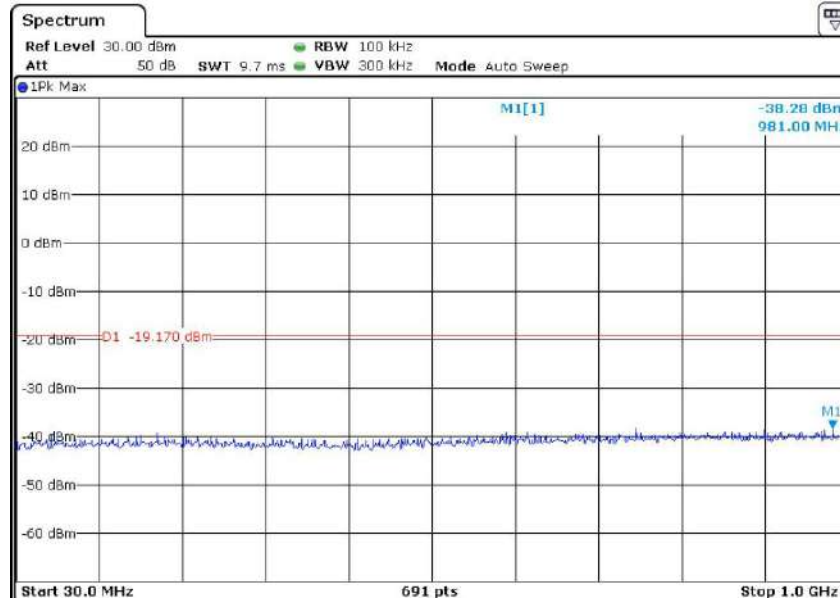


13 G to 25 GHz

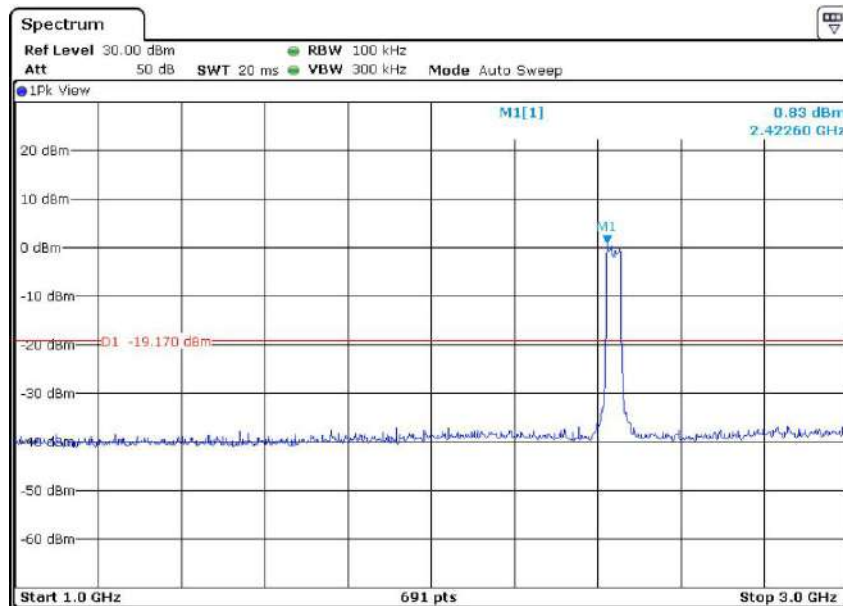


Channel 6: 2.437GHz:

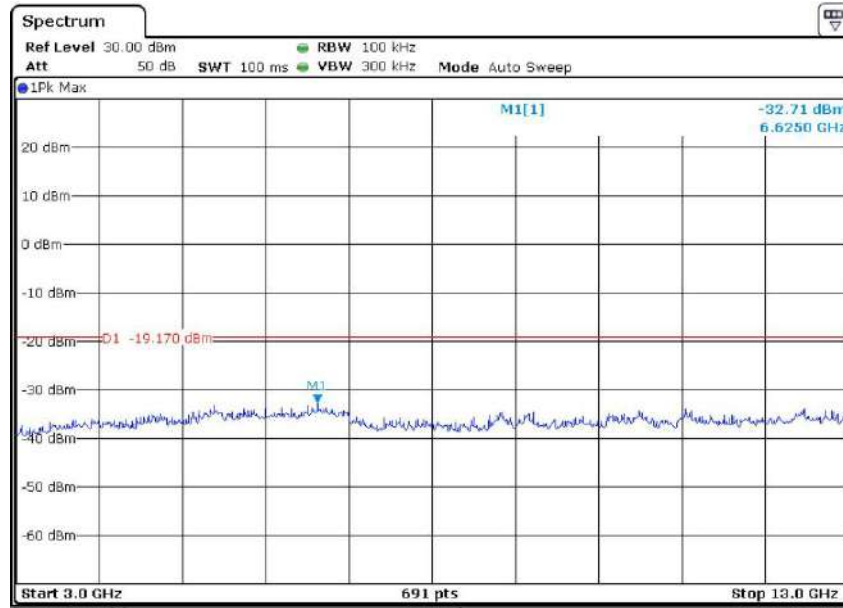
30 MHz to 1 GHz



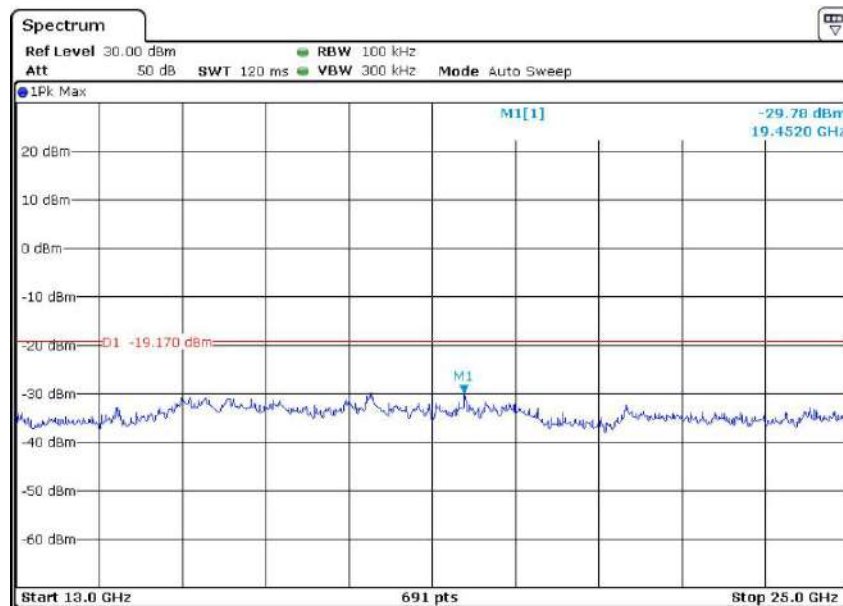
1 G to 3 GHz



3 G to 13 GHz

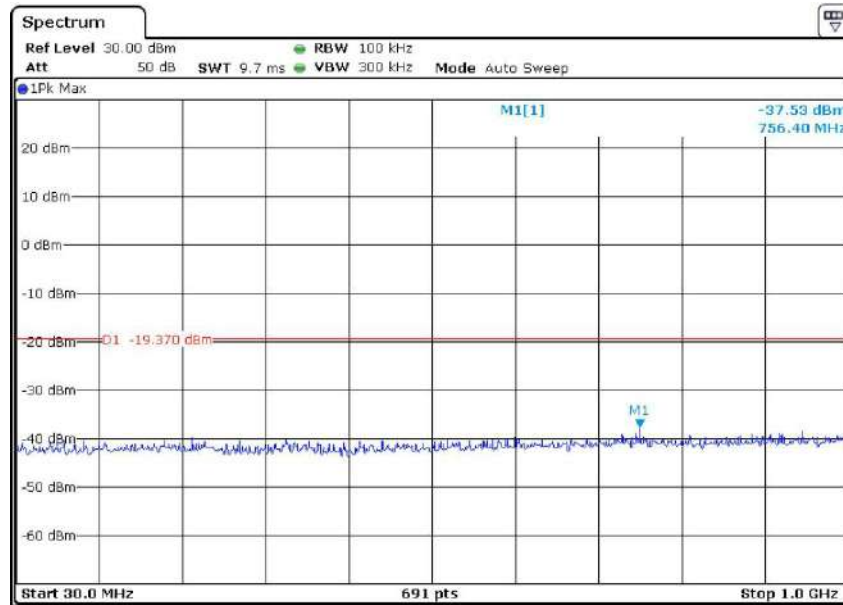


13 G to 25 GHz

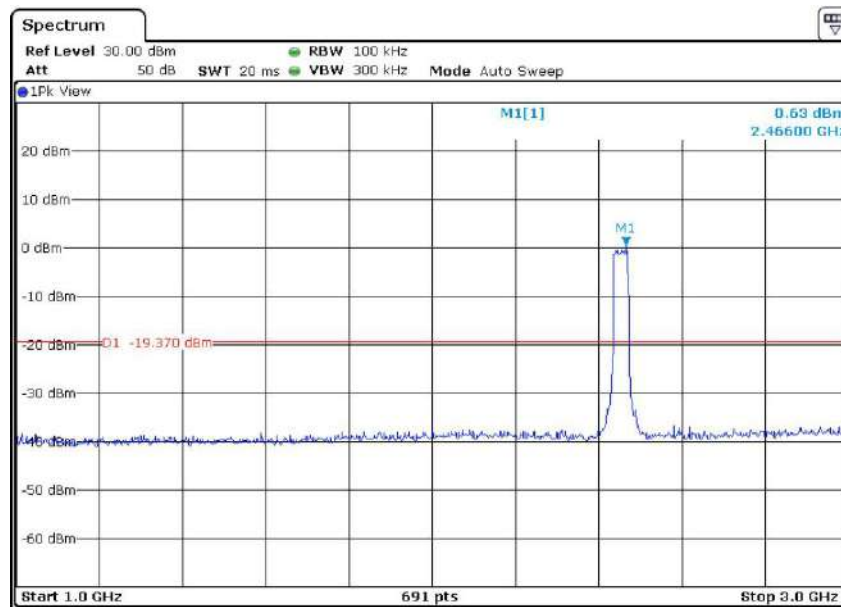


Channel 9:2.452 GHz

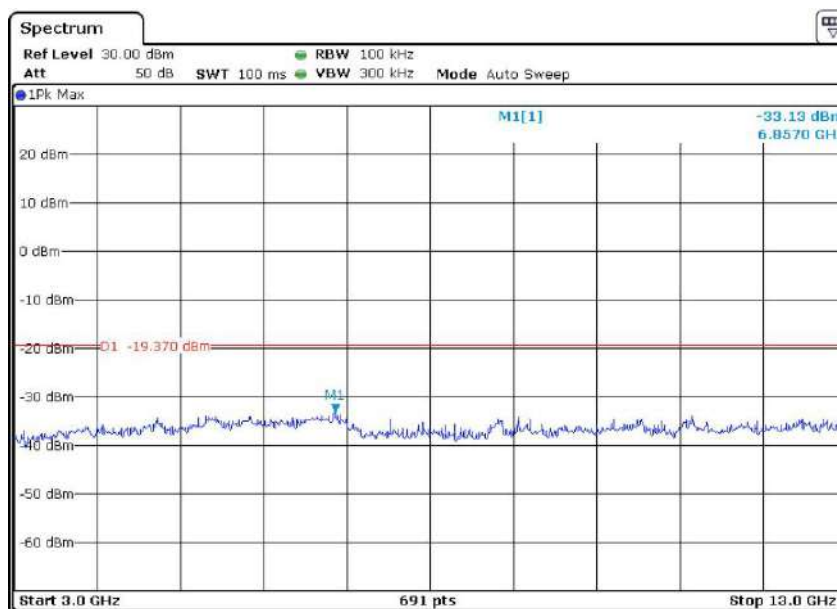
30 MHz to 1 GHz



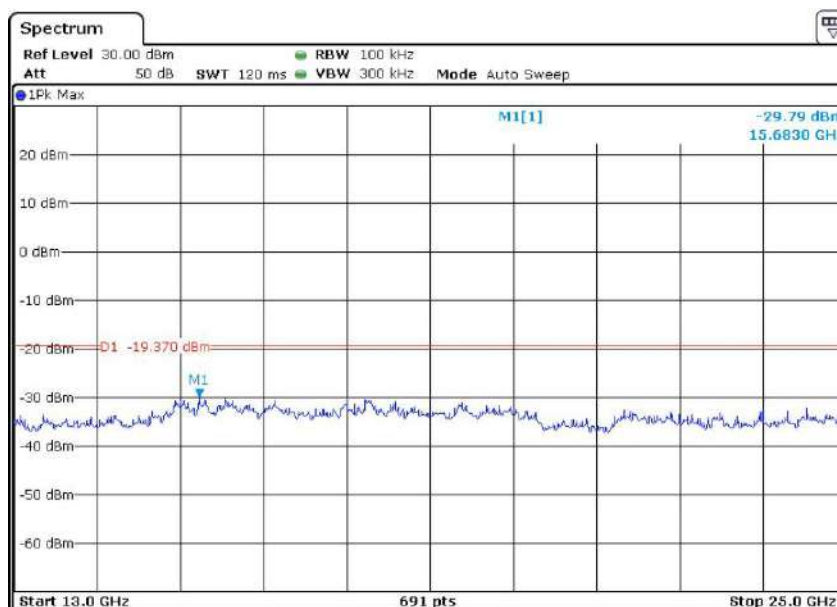
1 G to 3 GHz



3 G to 13 GHz



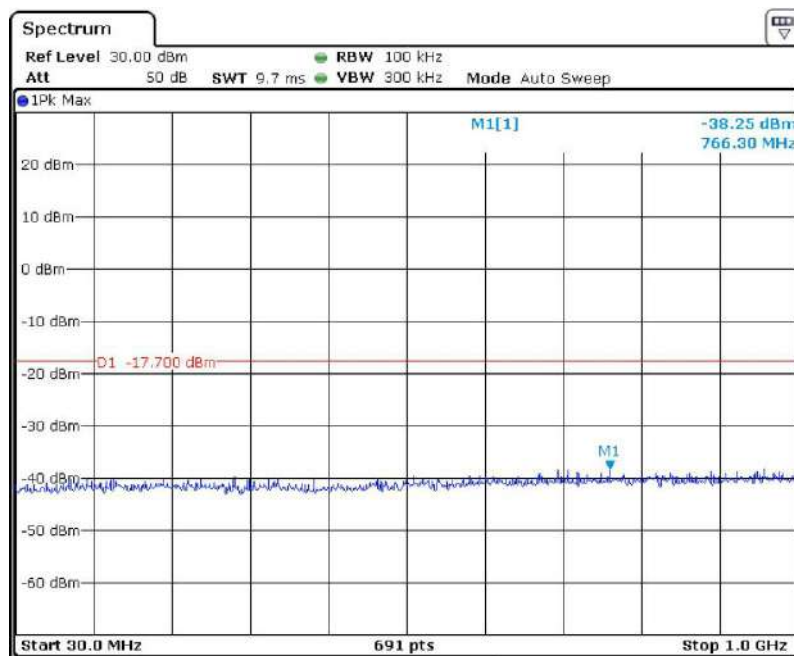
13 G to 25 GHz



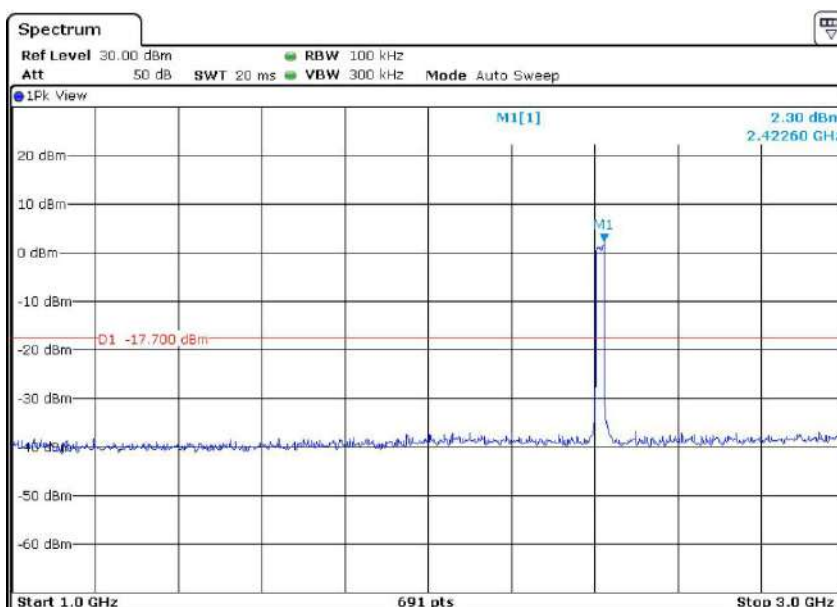
802.11ax(HE20) mode with MCS11 data rate

Channel 1: 2.412GHz:

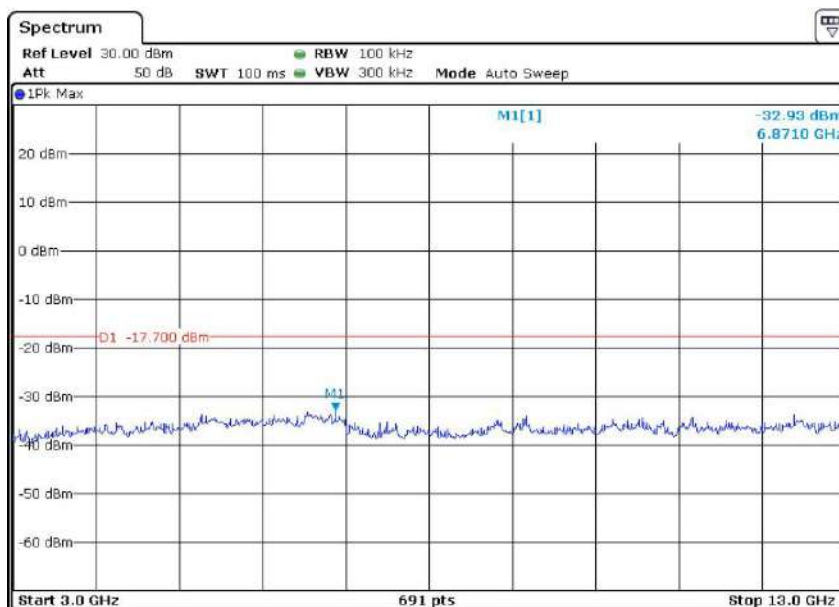
30 MHz to 1 GHz



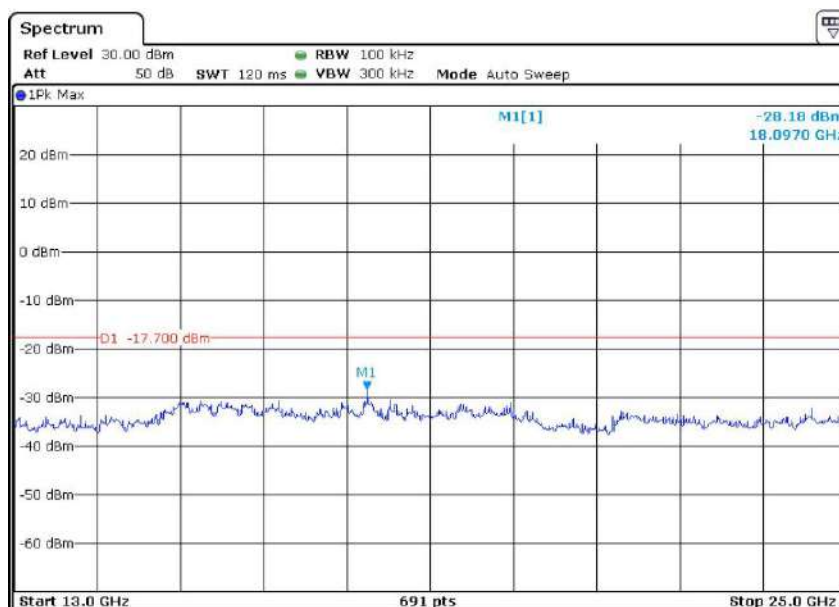
1 G to 3 GHz



3 G to 13 GHz

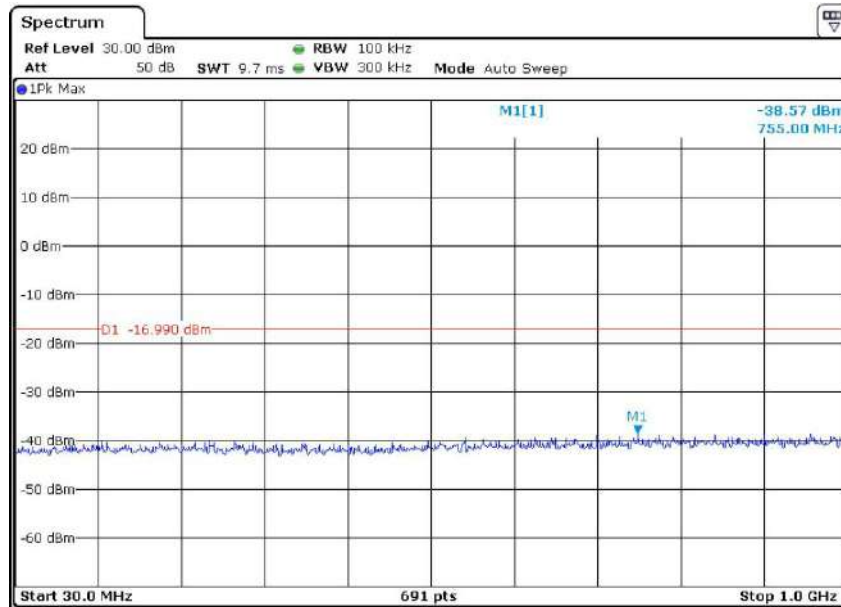


13 G to 25 GHz

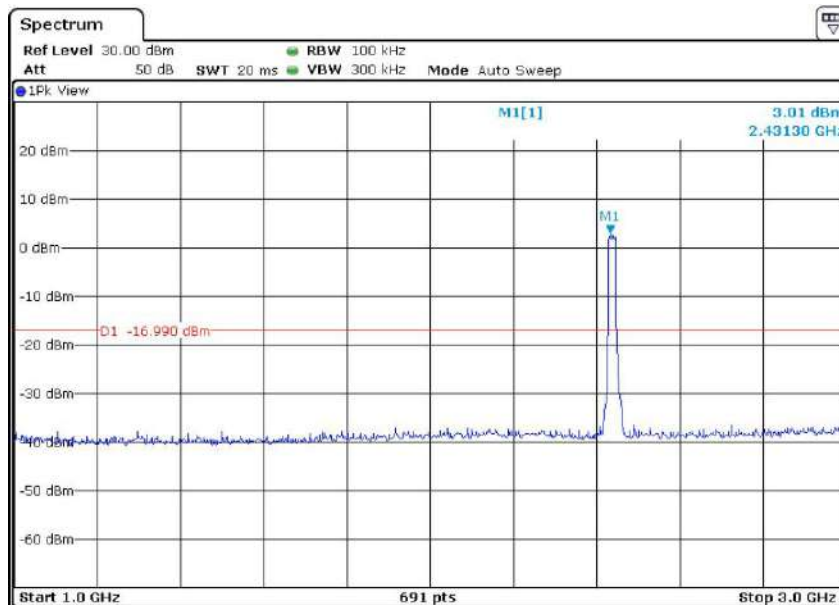


Channel 6: 2.437GHz:

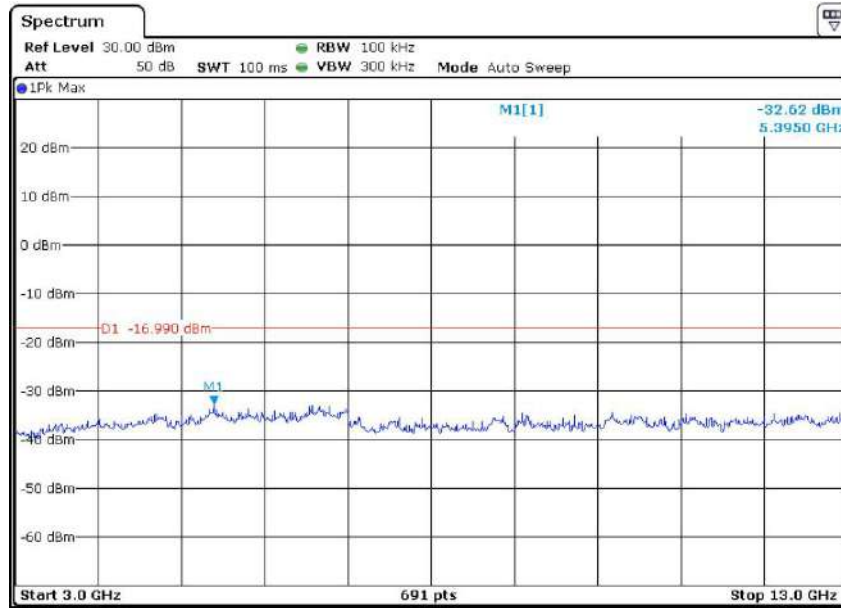
30 MHz to 1 GHz



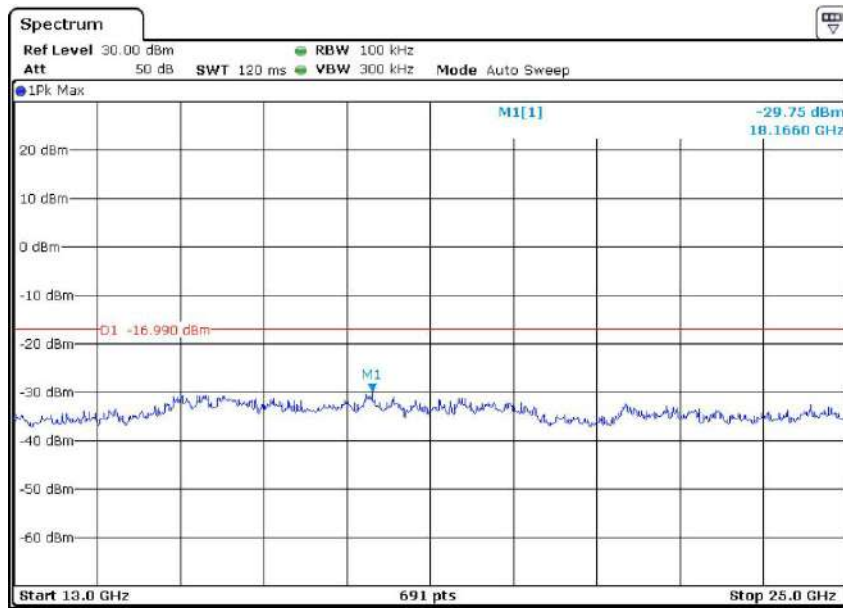
1 G to 3 GHz



3 G to 13 GHz

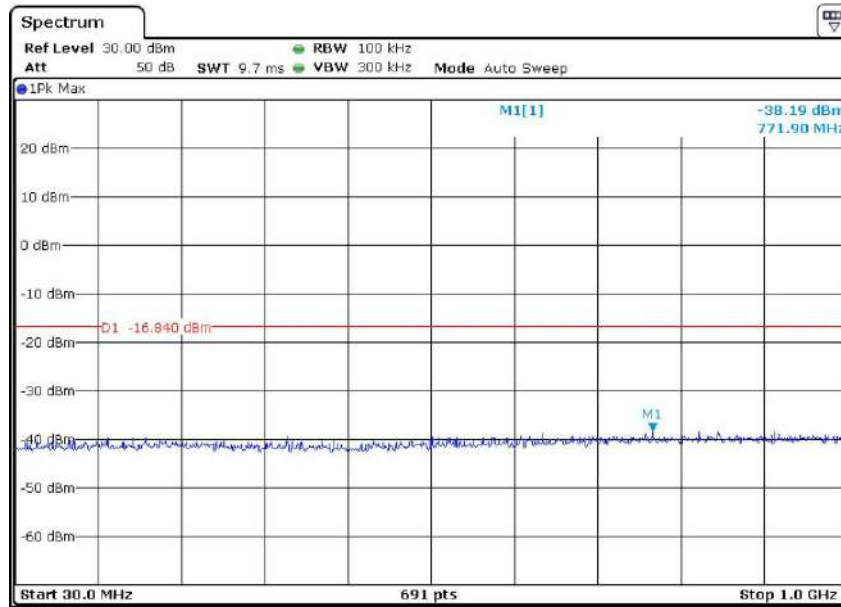


13 G to 25 GHz

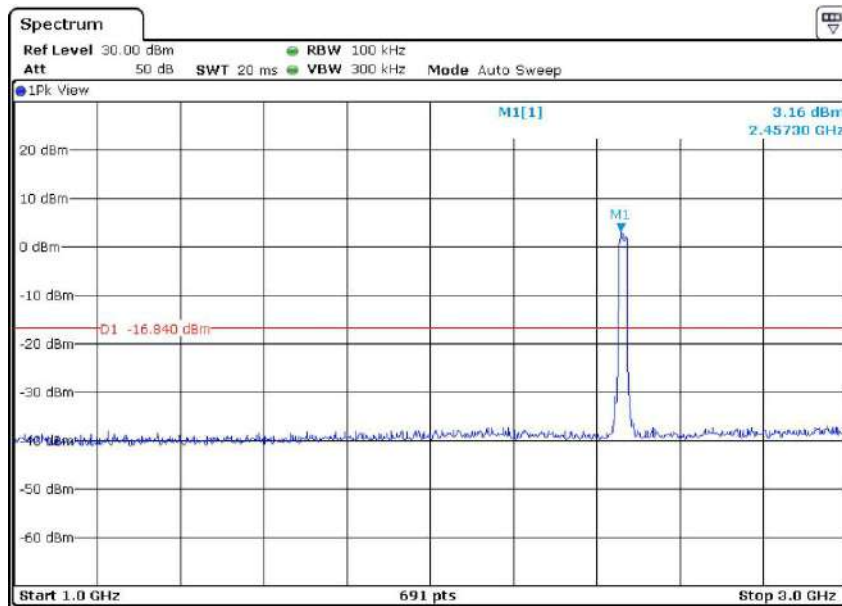


Channel 11:2.462 GHz

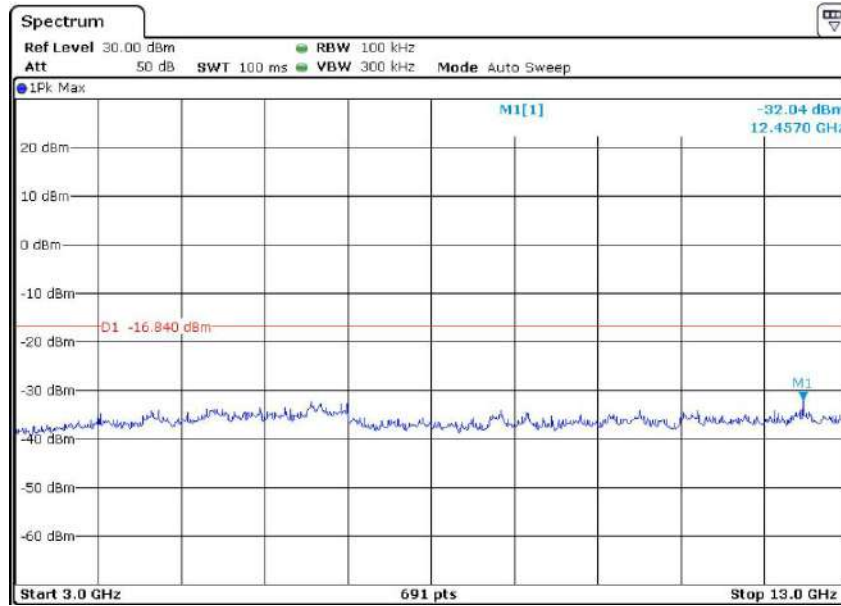
30 MHz to 1 GHz



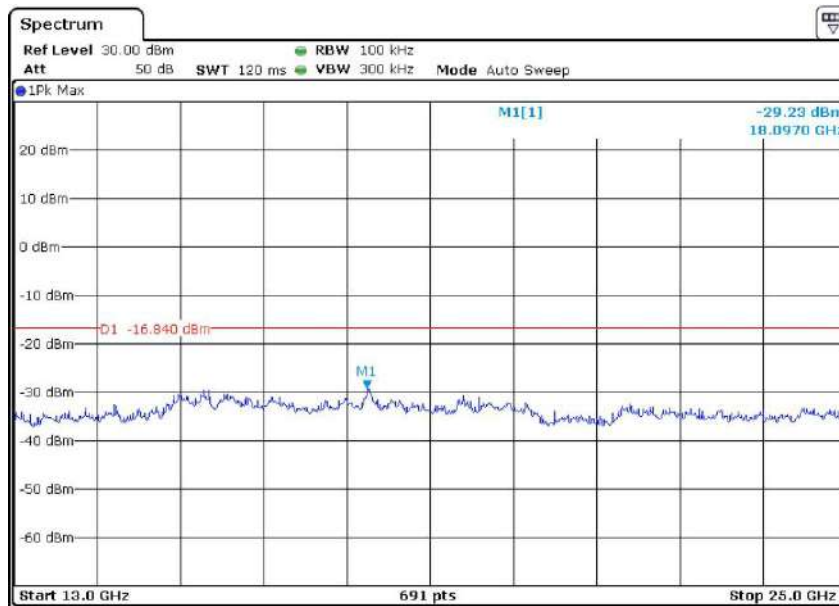
1 G to 3 GHz



3 G to 13 GHz



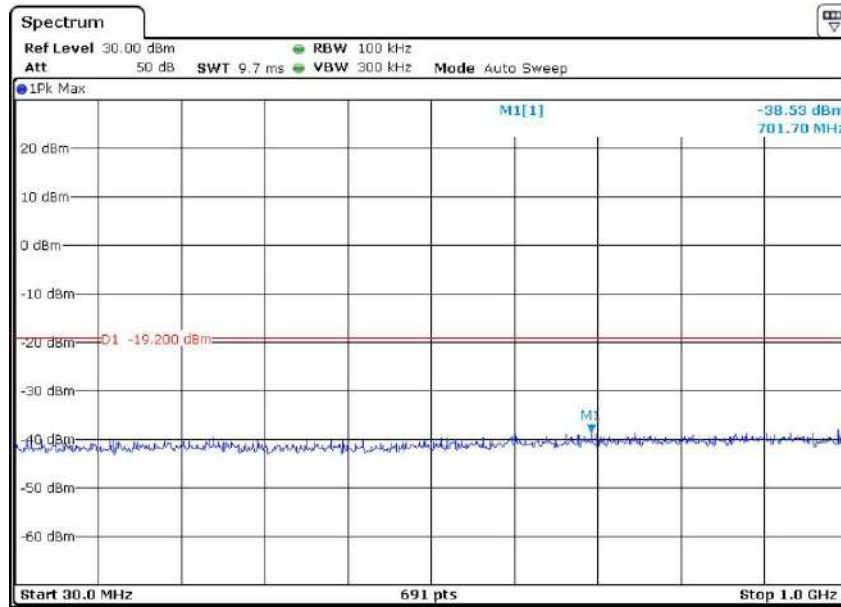
13 G to 25 GHz



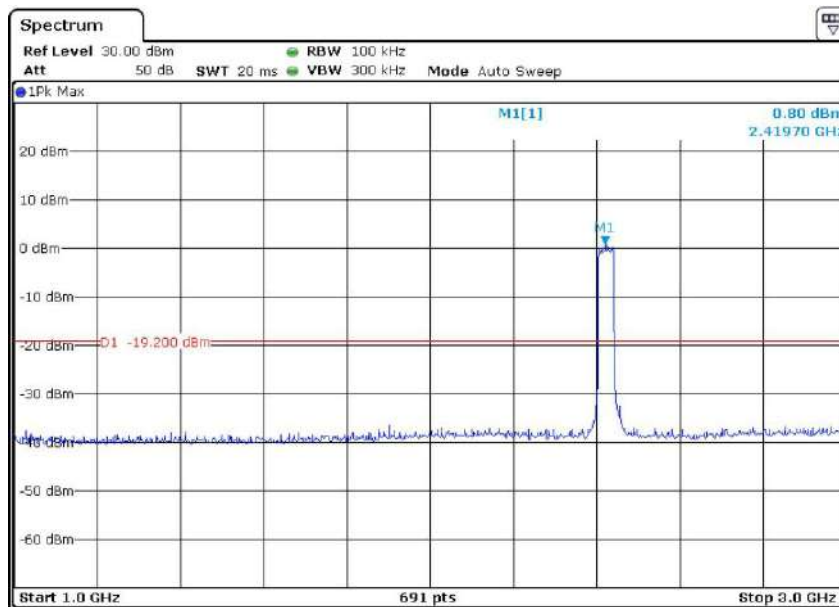
802.11ax(HE40) mode with MCS11 data rate

Channel 3: 2.422GHz:

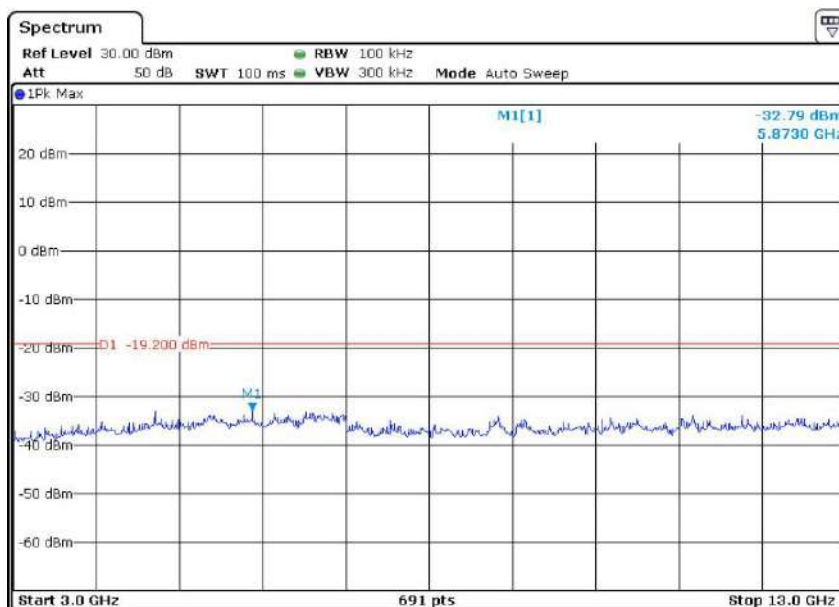
30 MHz to 1 GHz



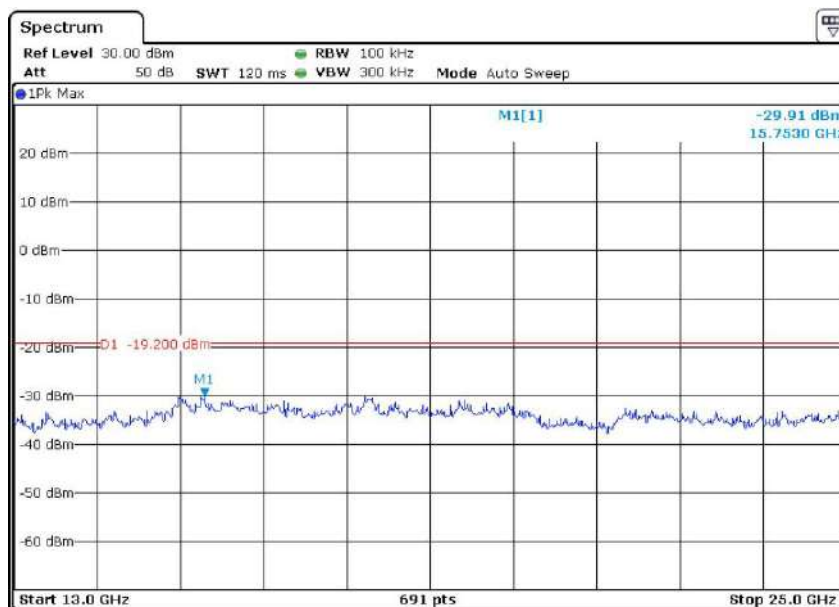
1 G to 3 GHz



3 G to 13 GHz

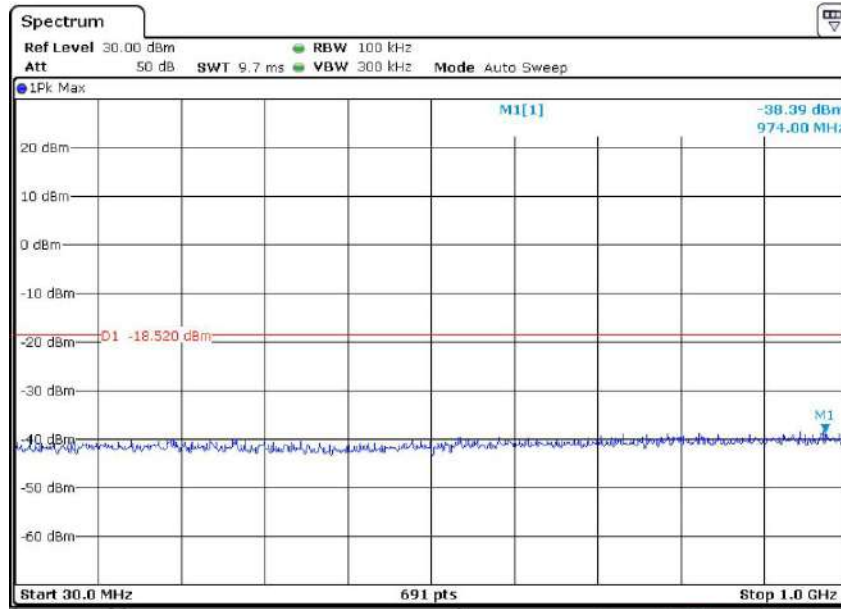


13 G to 25 GHz

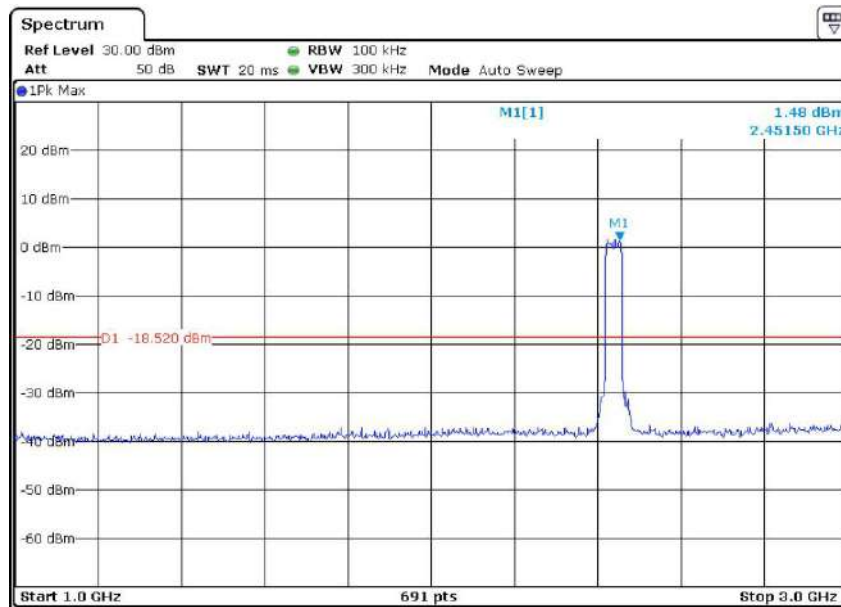


Channel 6: 2.437GHz:

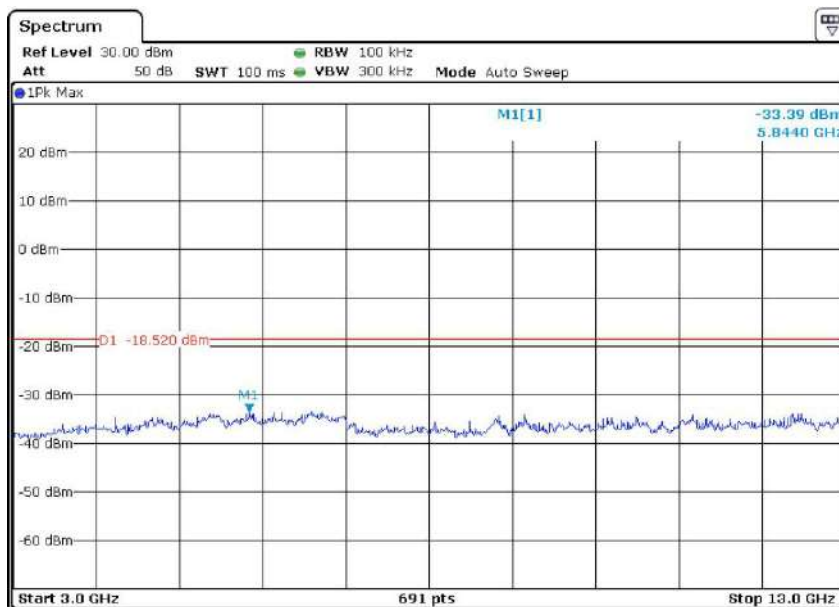
30 MHz to 1 GHz



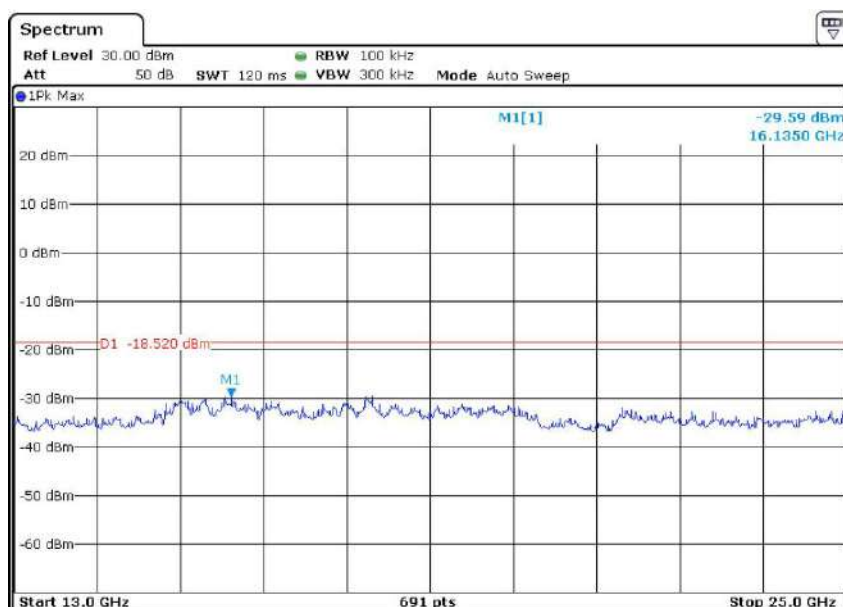
1 G to 3 GHz



3 G to 13 GHz

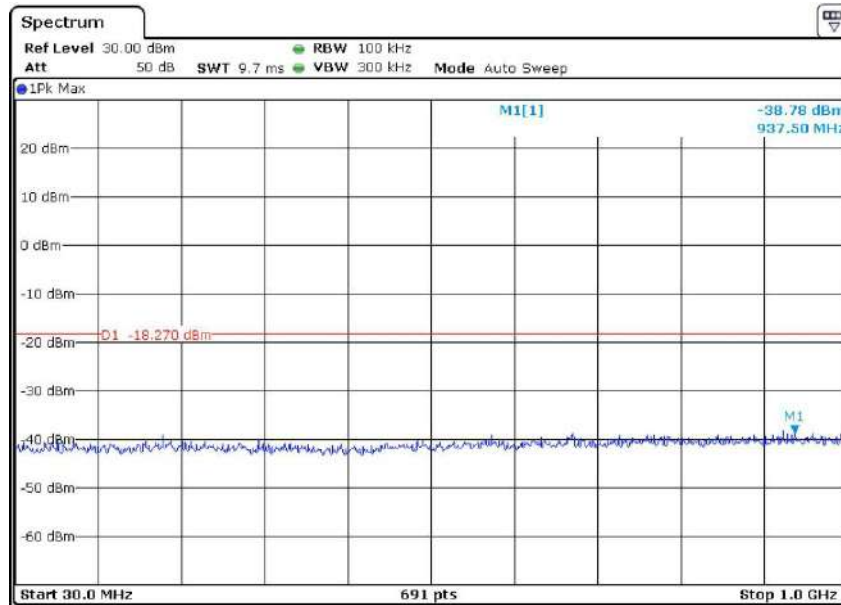


13 G to 25 GHz

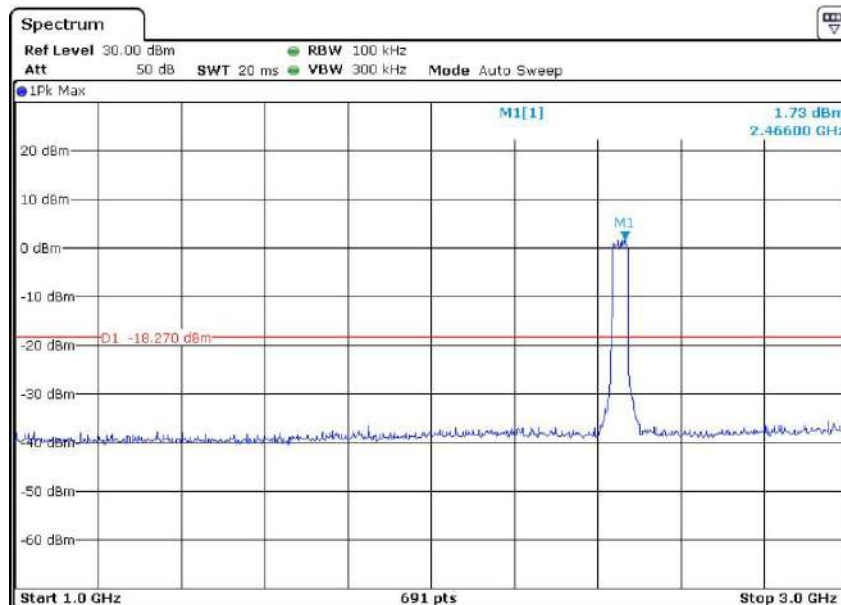


Channel 9:2.452 GHz

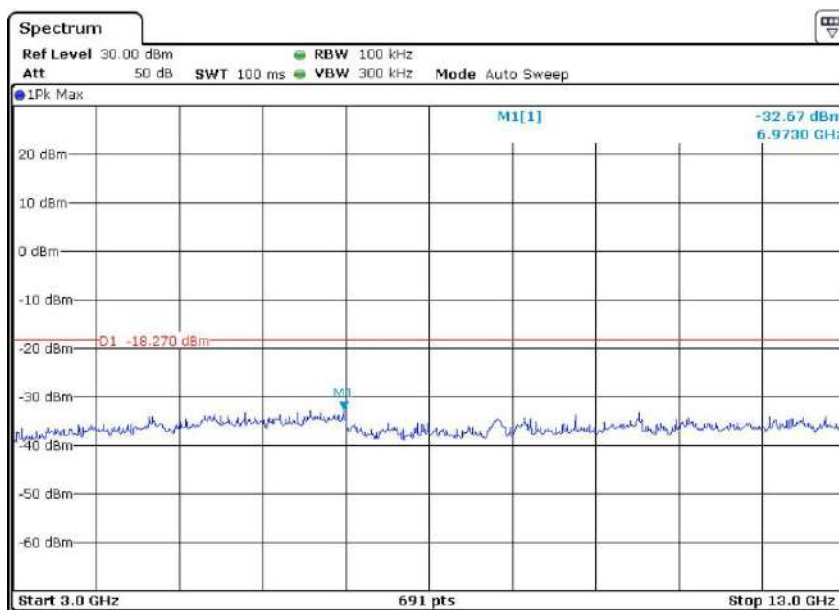
30 MHz to 1 GHz



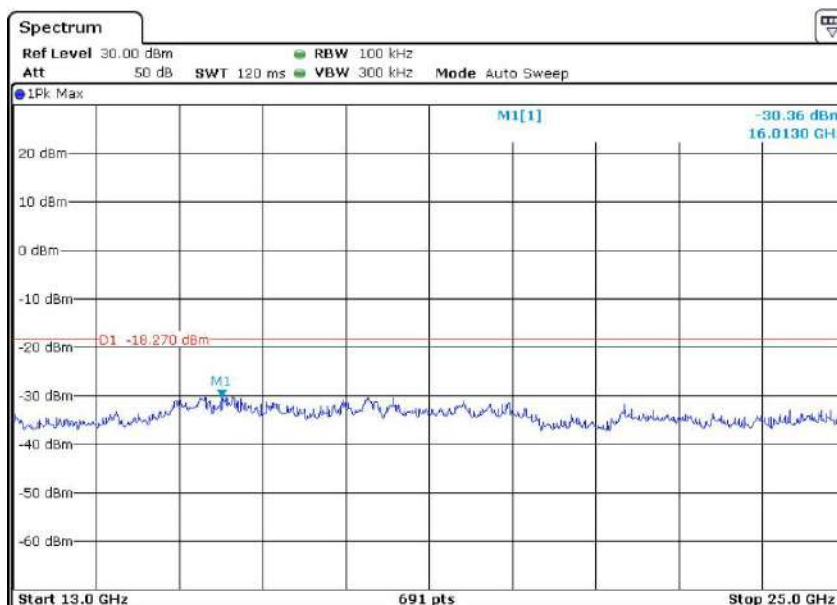
1 G to 3 GHz



3 G to 13 GHz



13 G to 25 GHz

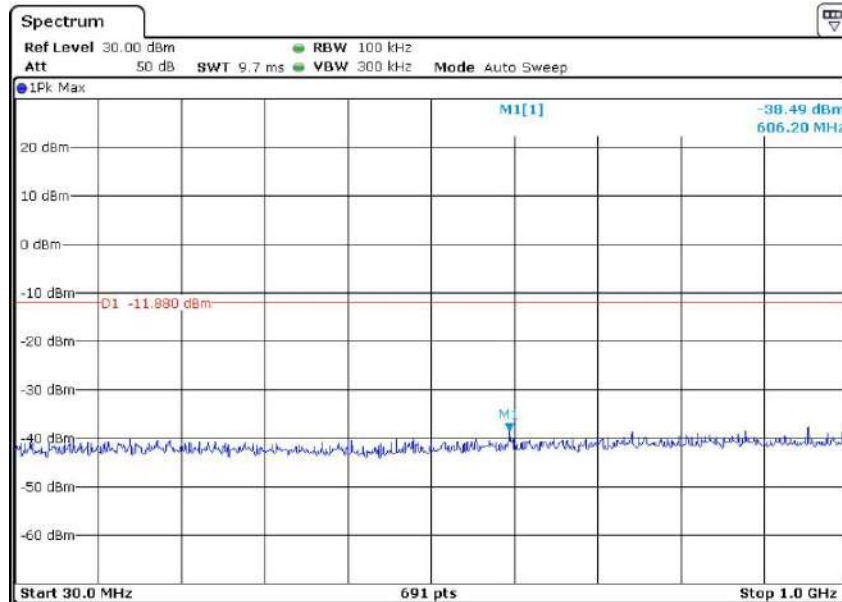


Result plot as follows: Chain 1

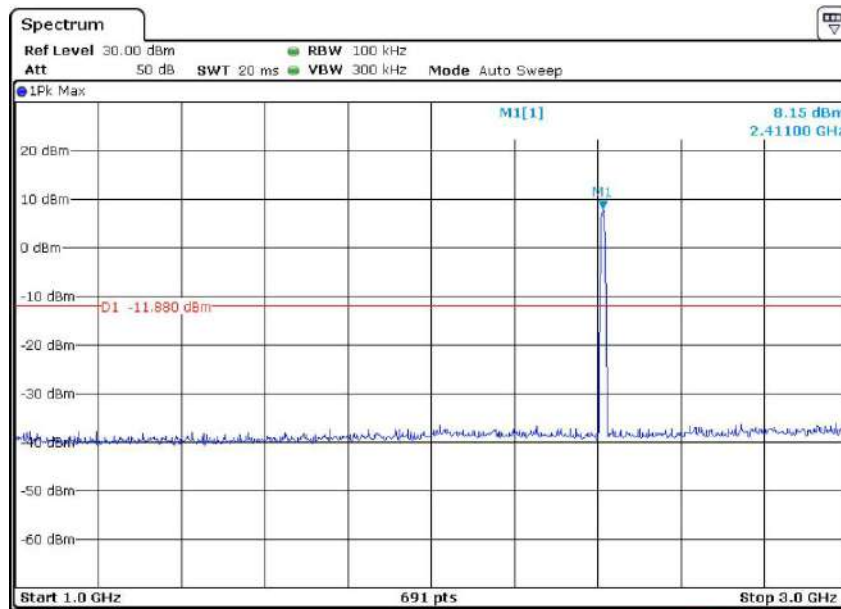
802.11b mode with 11Mbps data rate

Channel 1: 2.412GHz:

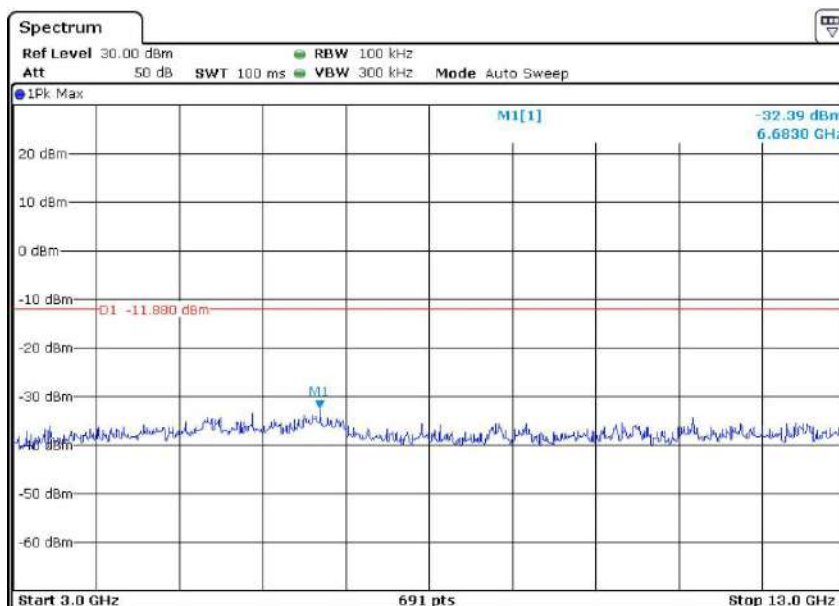
30 MHz to 1 GHz



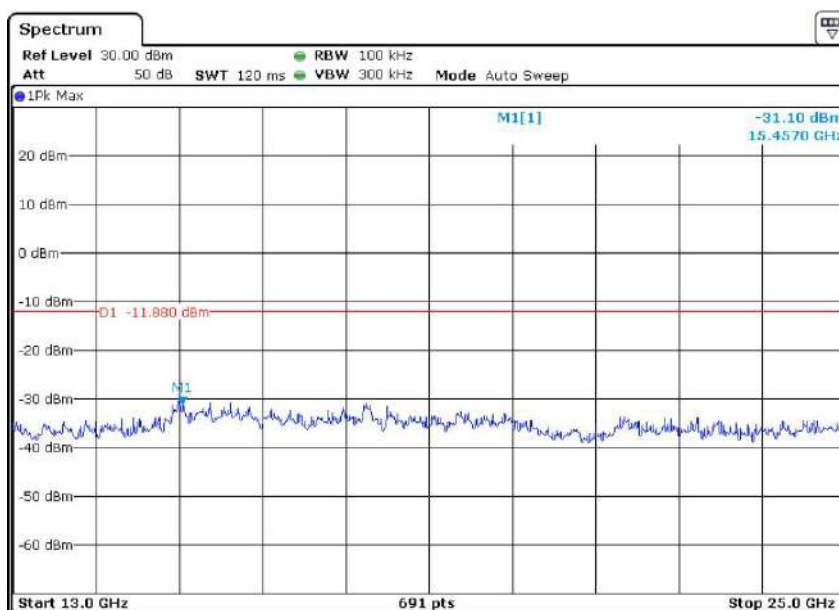
1 G to 3 GHz



3 G to 13 GHz

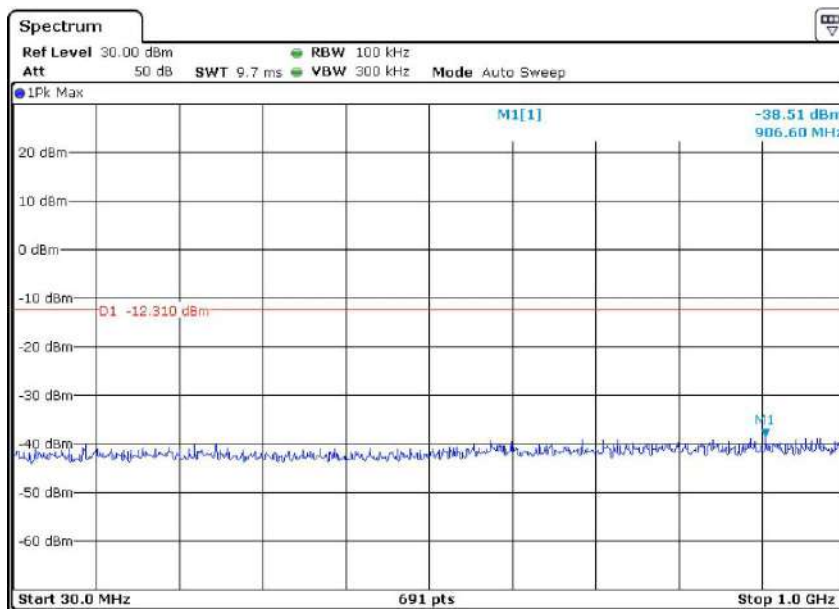


13 G to 25 GHz

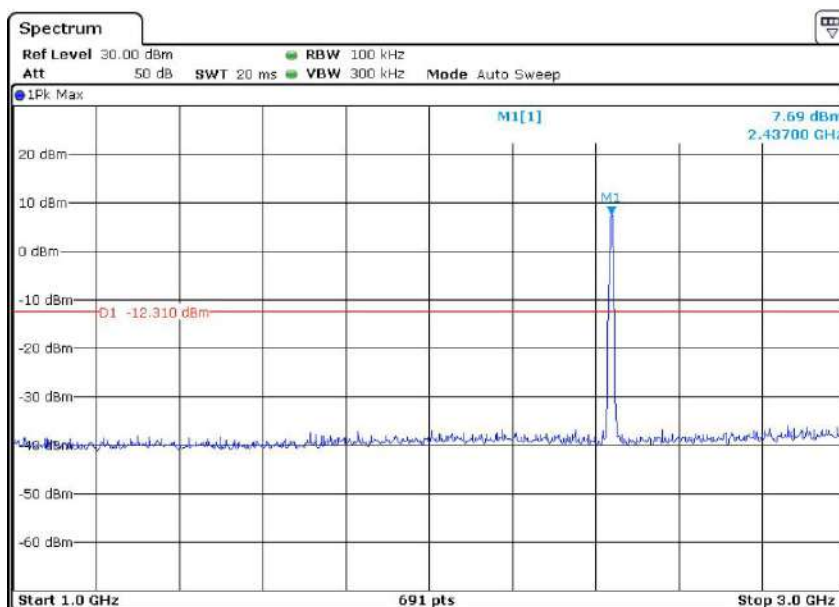


Channel 6: 2.437GHz:

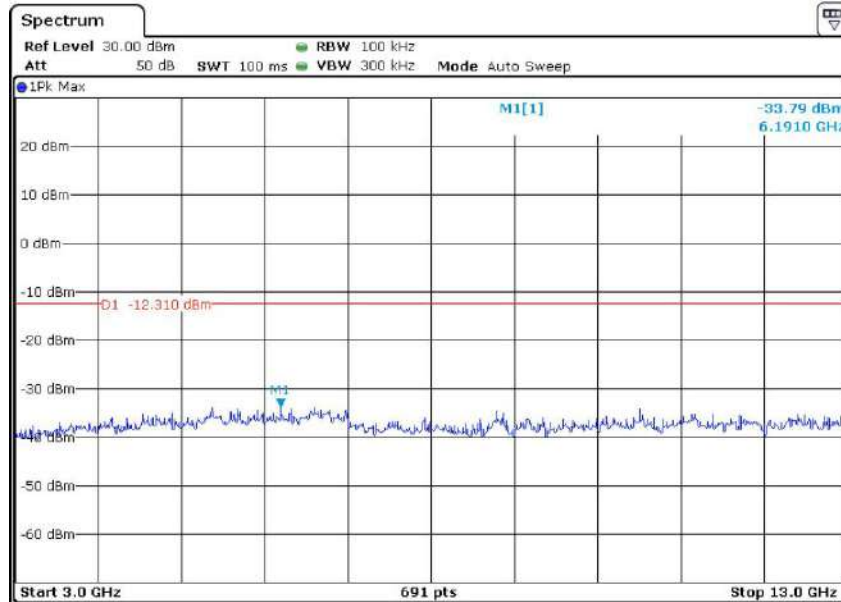
30 MHz to 1 GHz



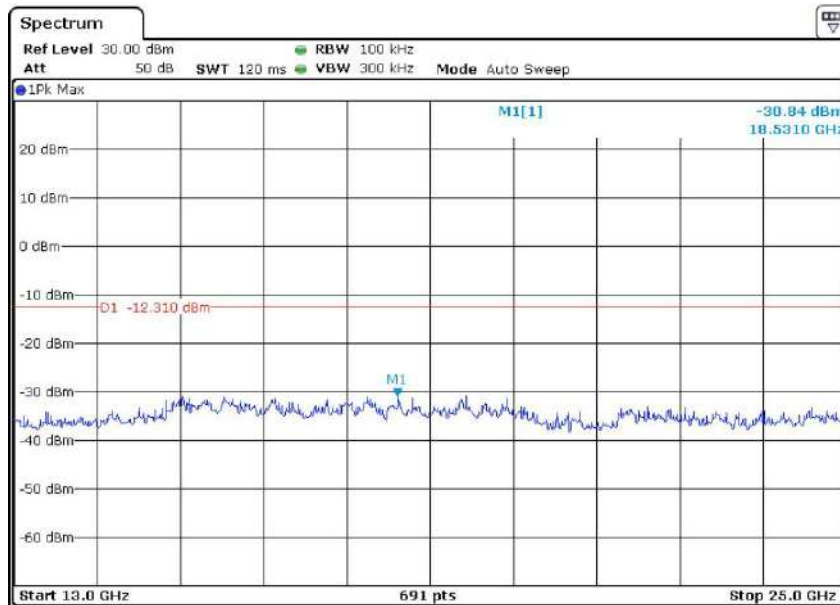
1 G to 3 GHz



3 G to 13 GHz

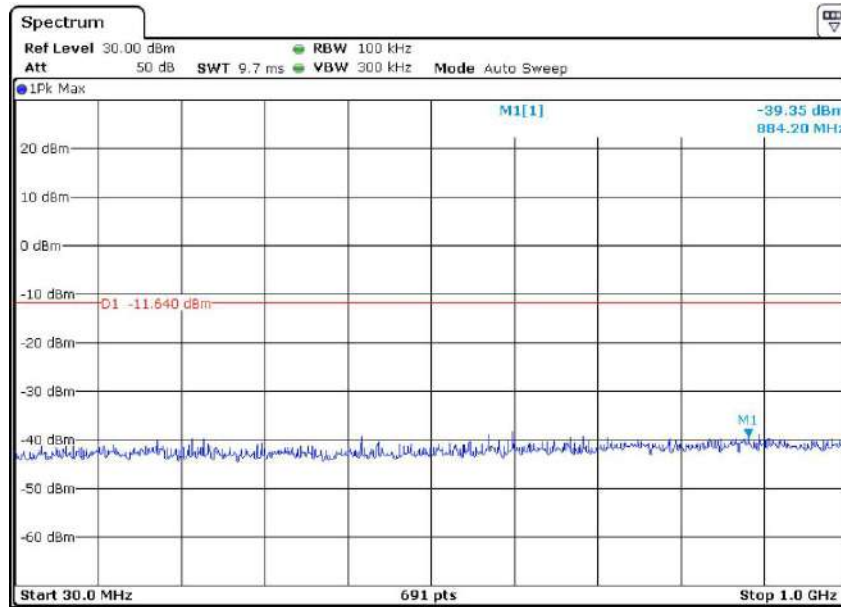


13 G to 25 GHz

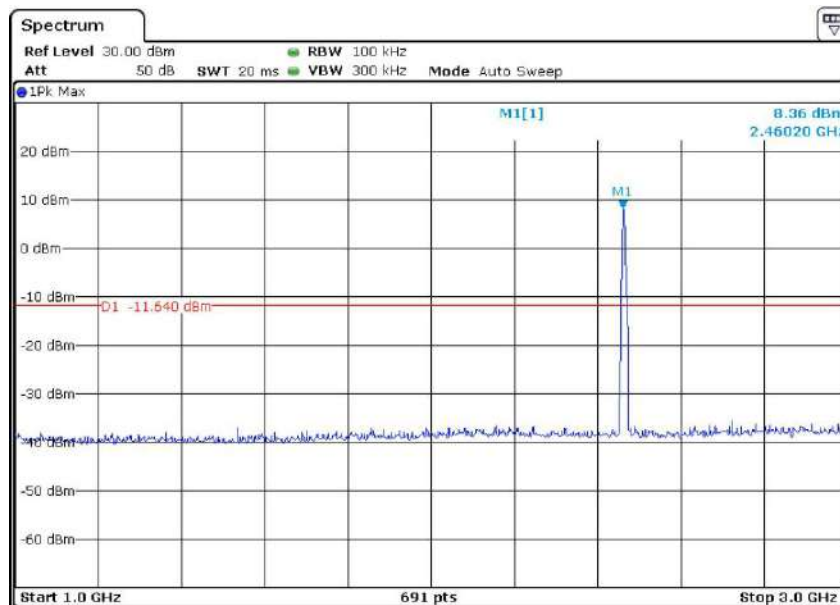


Channel 11:2.462 GHz

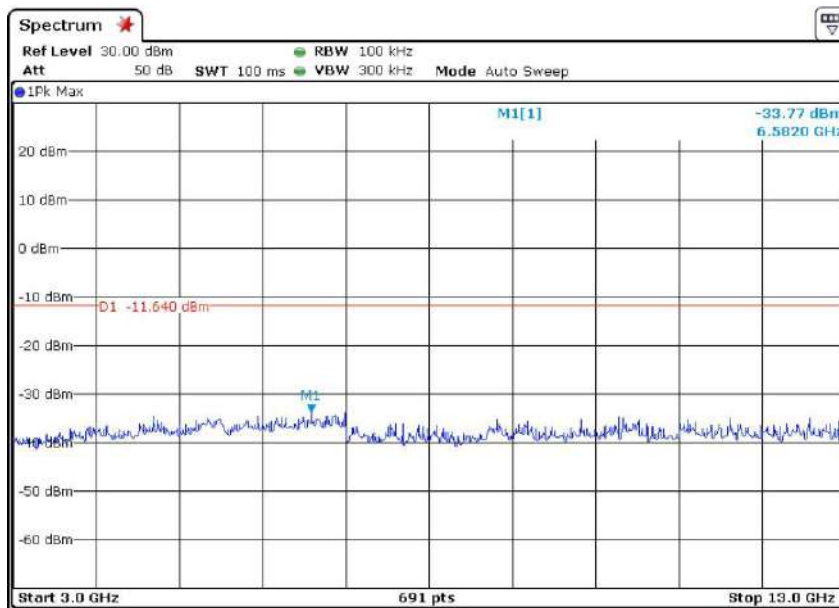
30 MHz to 1 GHz



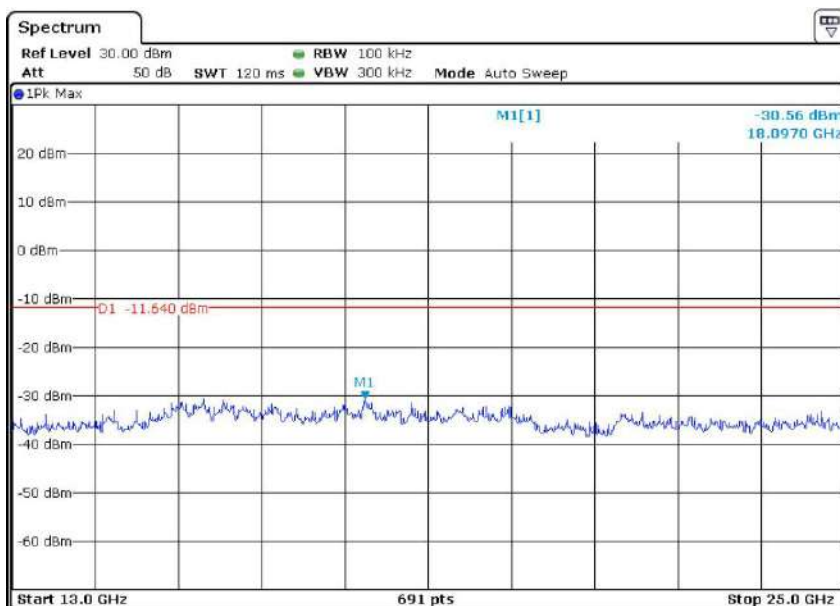
1 G to 3 GHz



3 G to 13 GHz



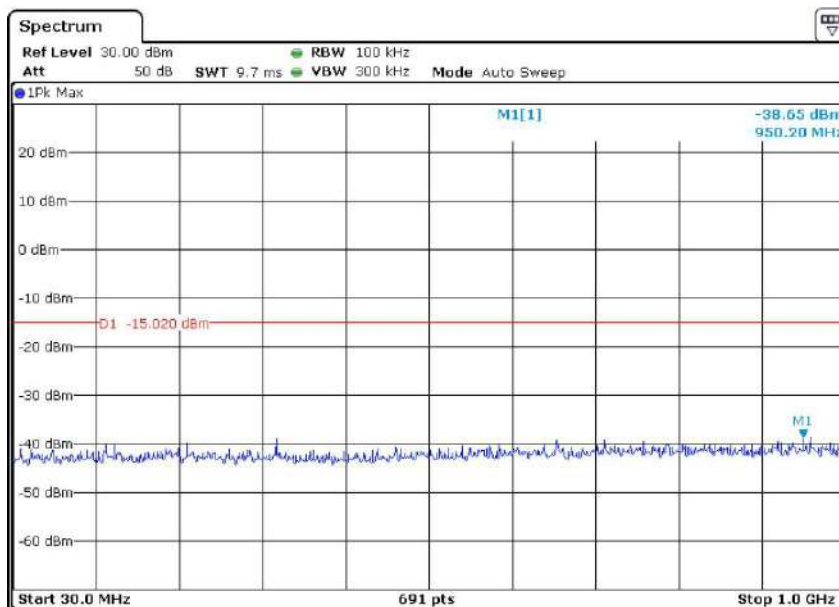
13 G to 25 GHz



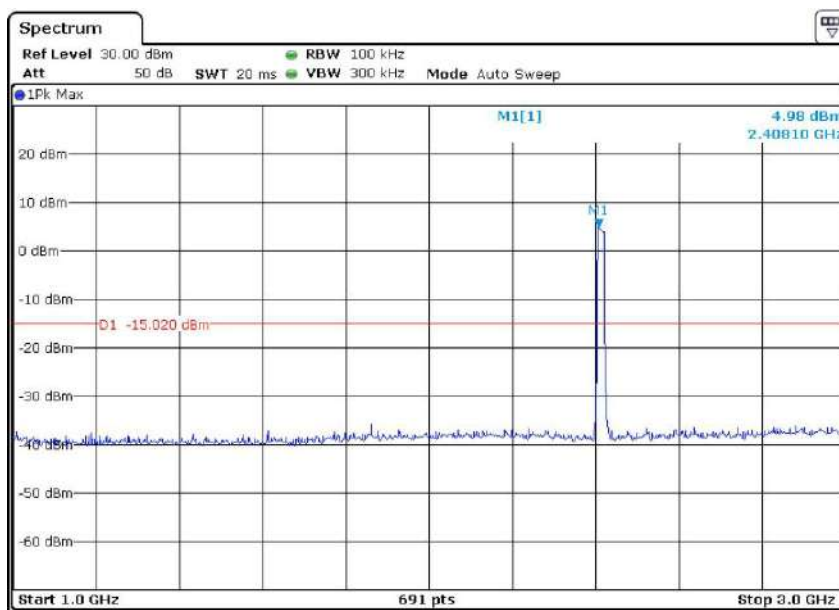
802.11g mode with 54Mbps data rate

Channel 1: 2.412GHz:

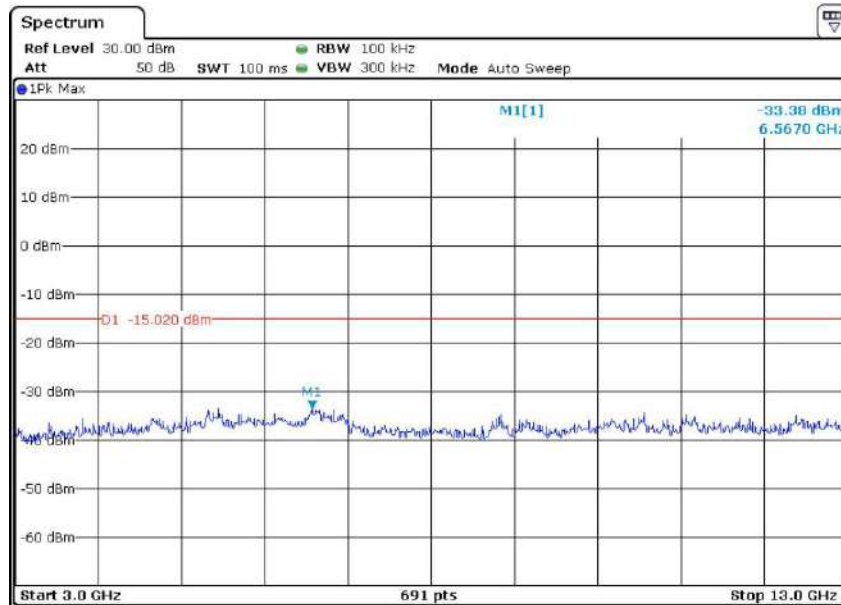
30 MHz to 1 GHz



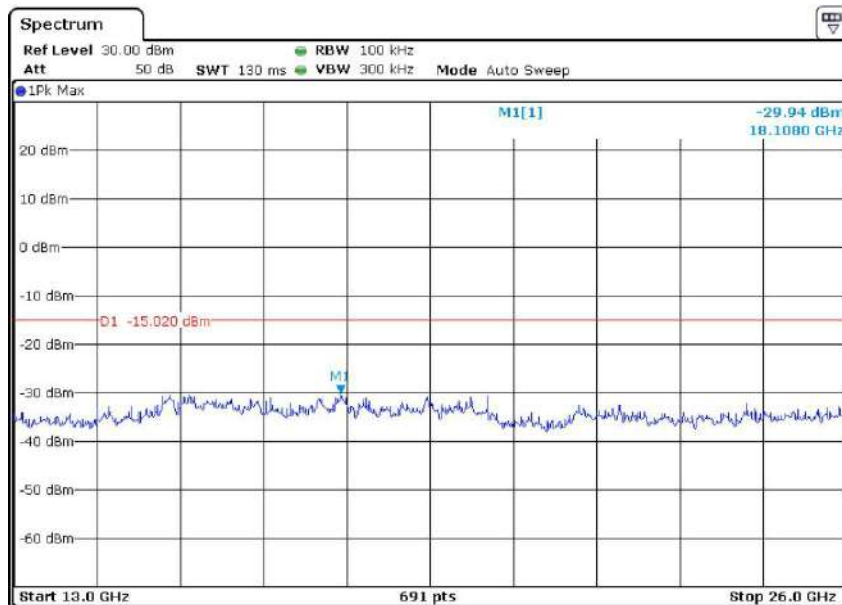
1 G to 3 GHz



3 G to 13 GHz

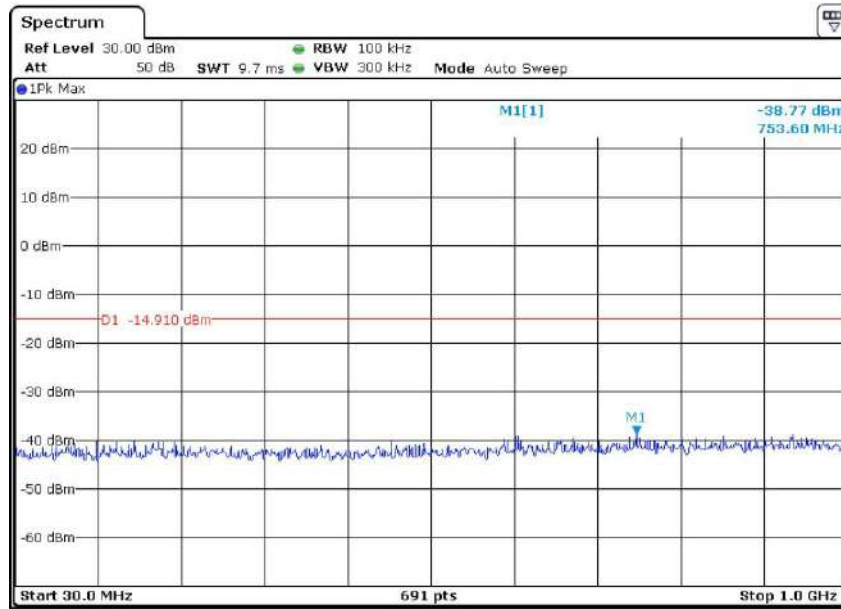


13 G to 25 GHz

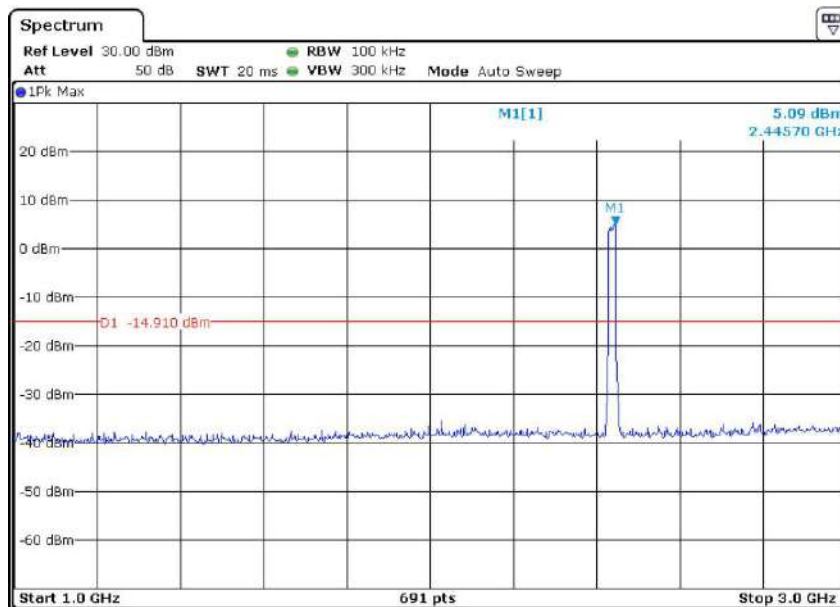


Channel 6: 2.437GHz:

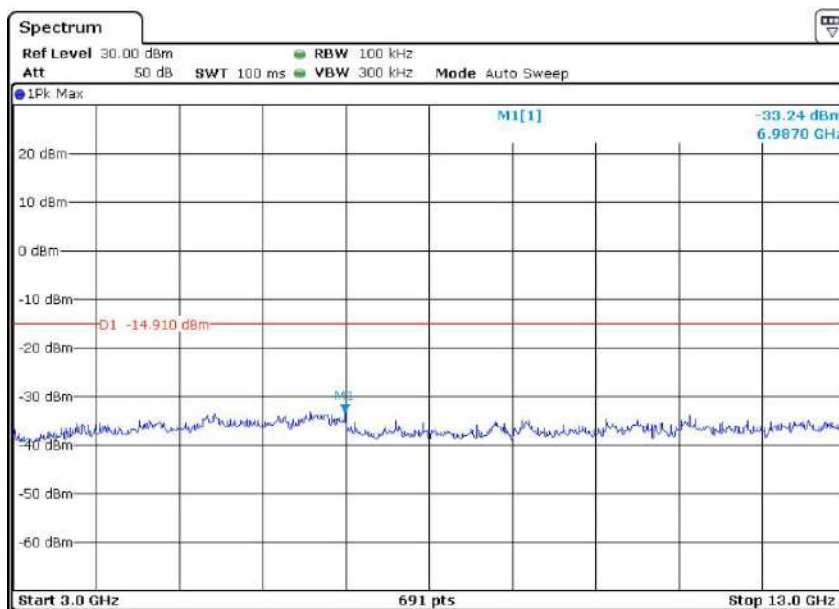
30 MHz to 1 GHz



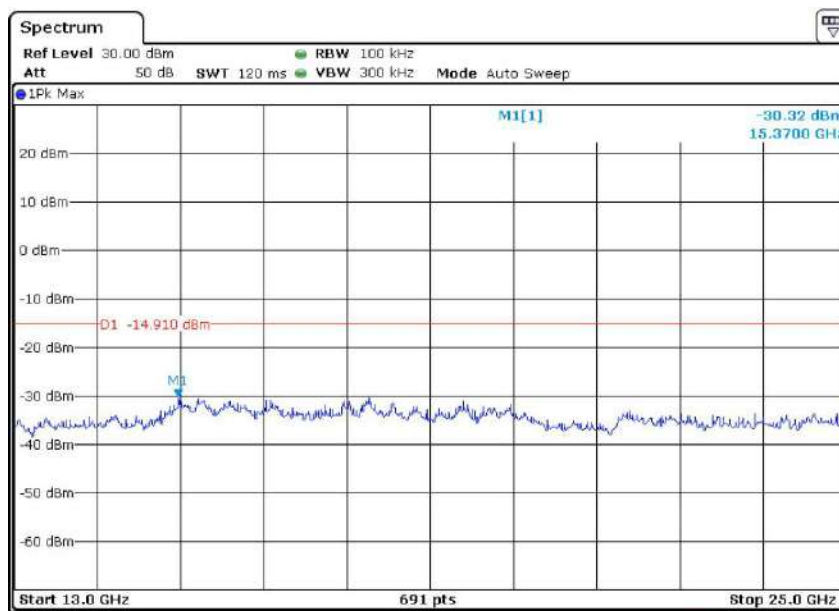
1 G to 3 GHz



3 G to 13 GHz

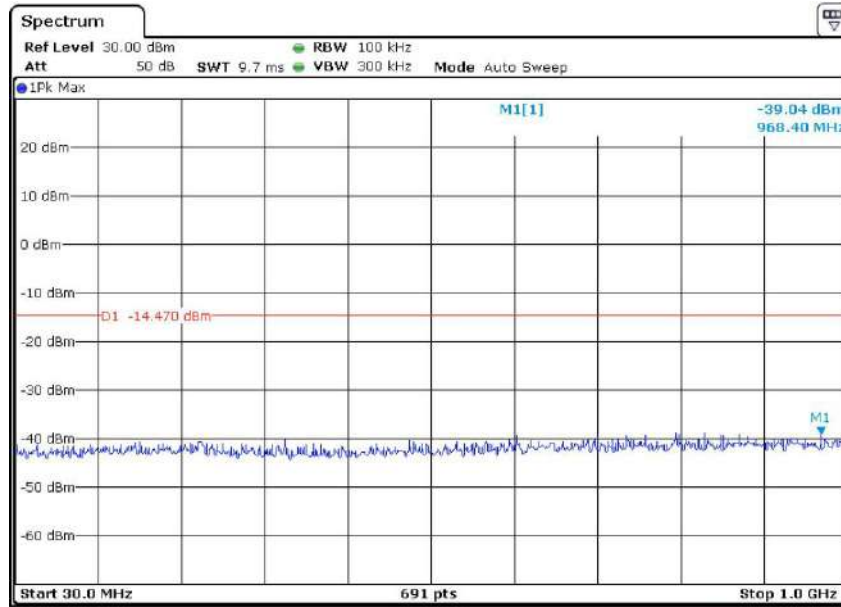


13 G to 25 GHz

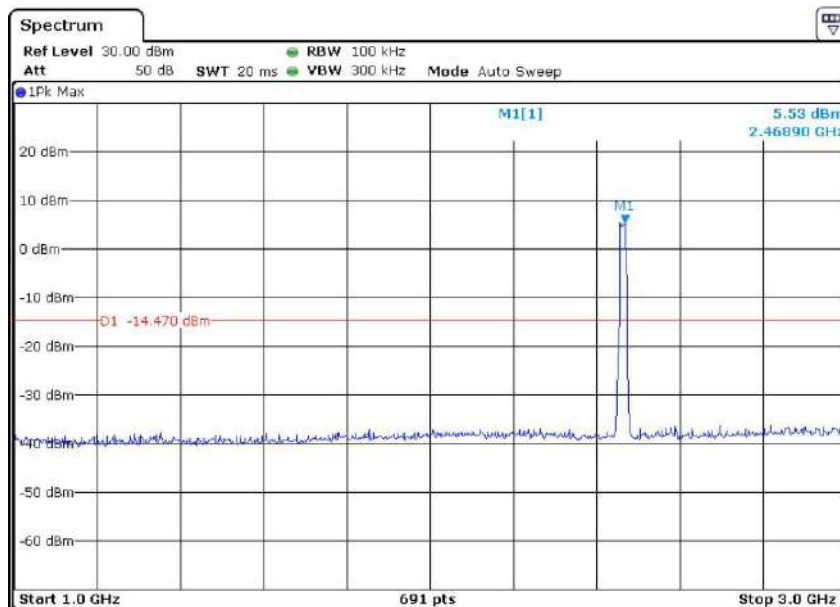


Channel 11:2.462 GHz

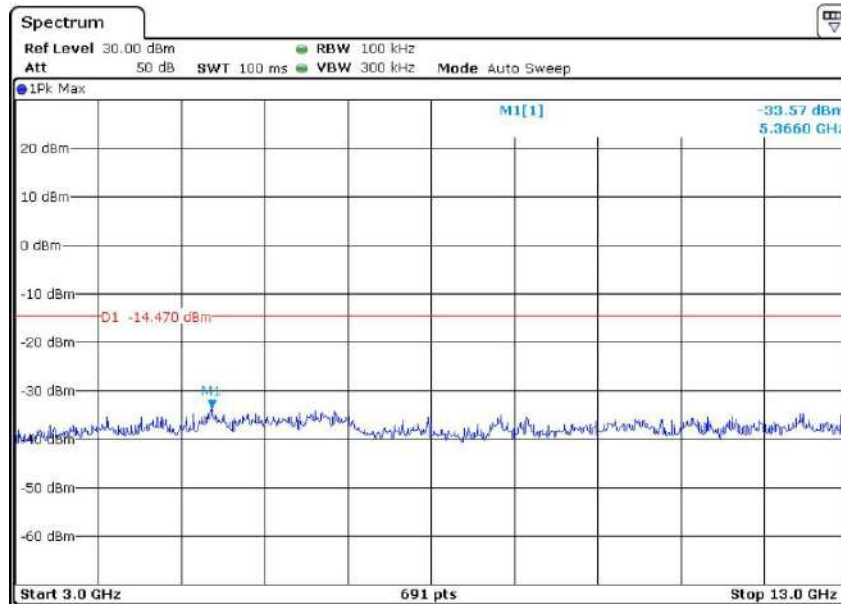
30 MHz to 1 GHz



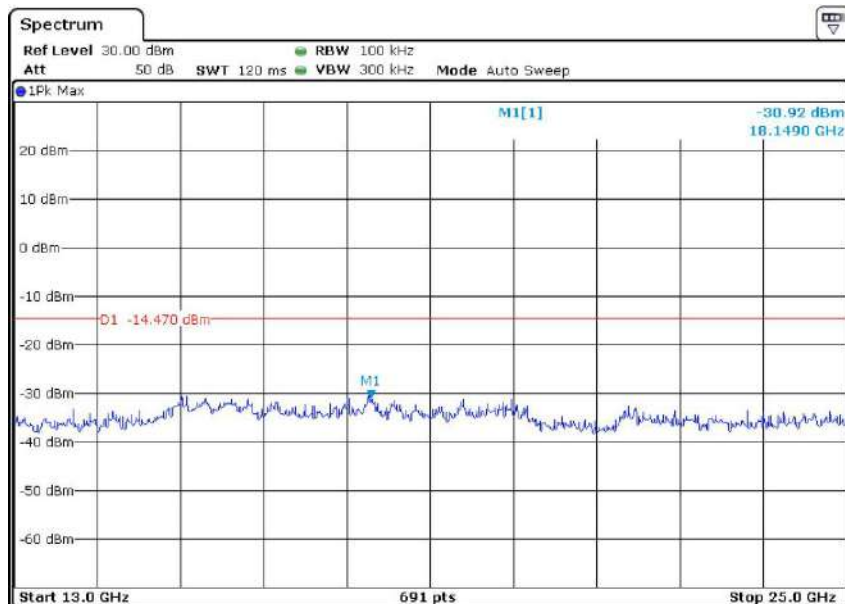
1 G to 3 GHz



3 G to 13 GHz



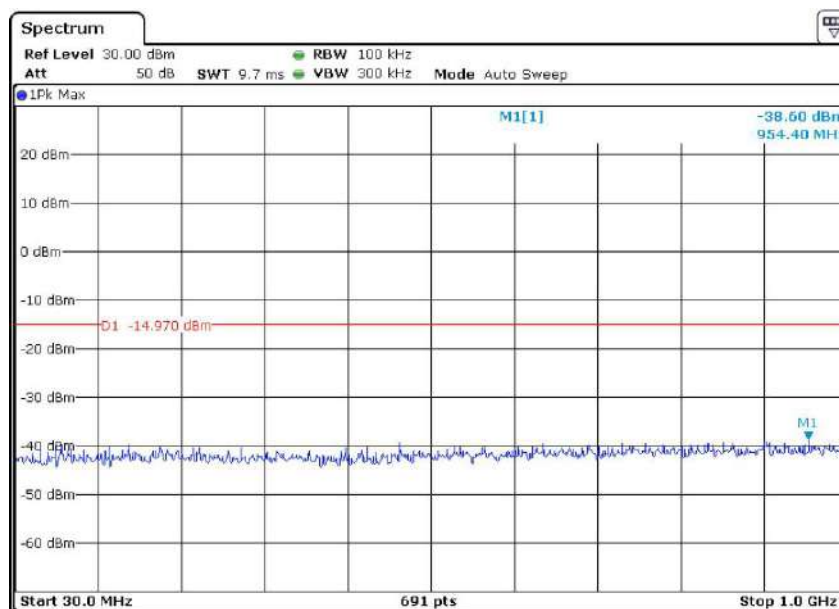
13 G to 25 GHz



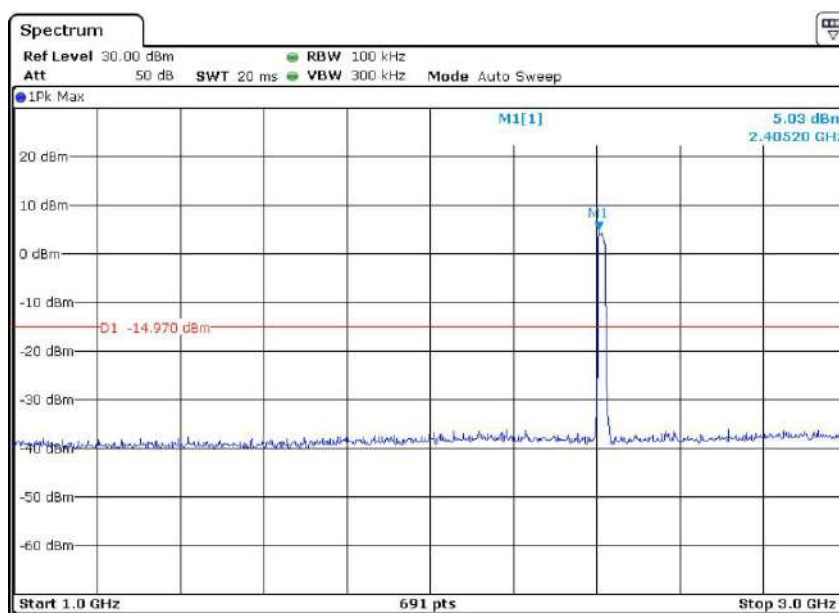
802.11n(HT20) mode with 72.2Mbps data rate

Channel 1: 2.412GHz:

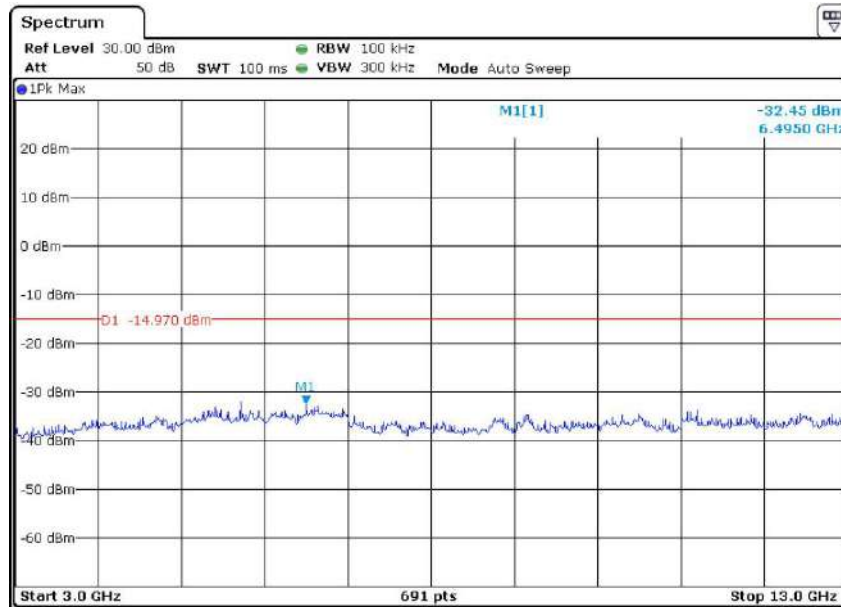
30 MHz to 1 GHz



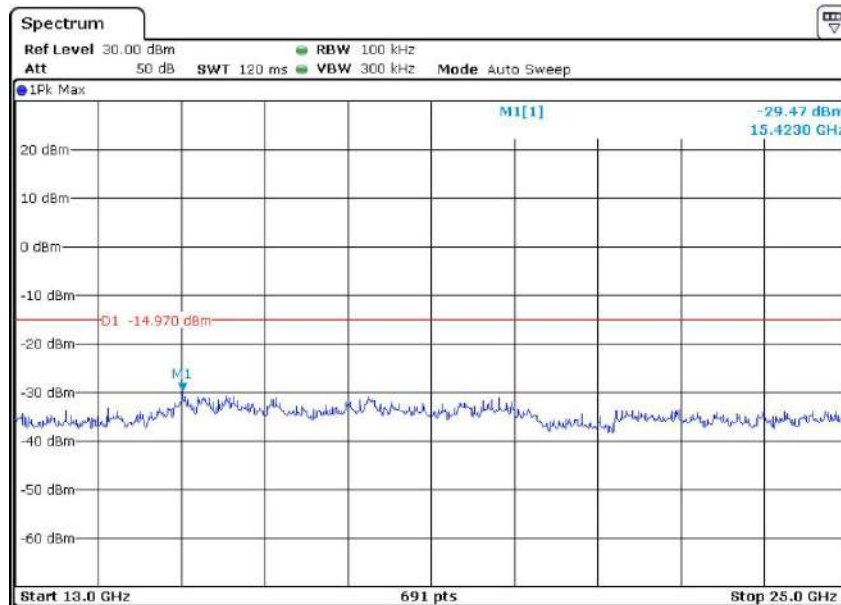
1 G to 3 GHz



3 G to 13 GHz

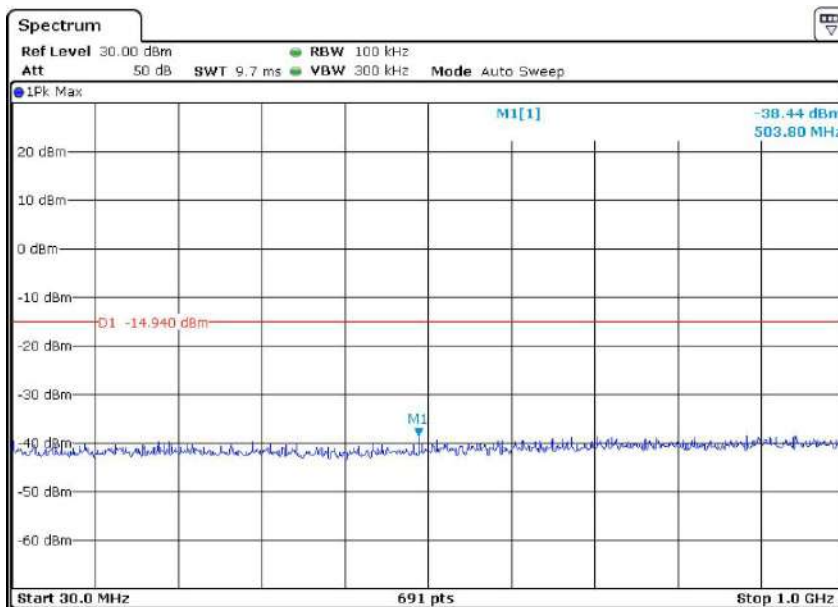


13 G to 25 GHz

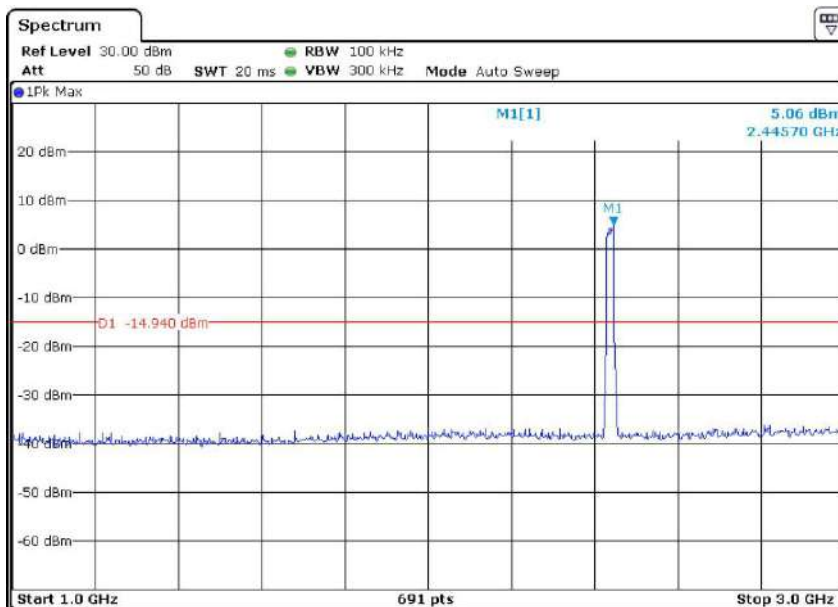


Channel 6: 2.437GHz:

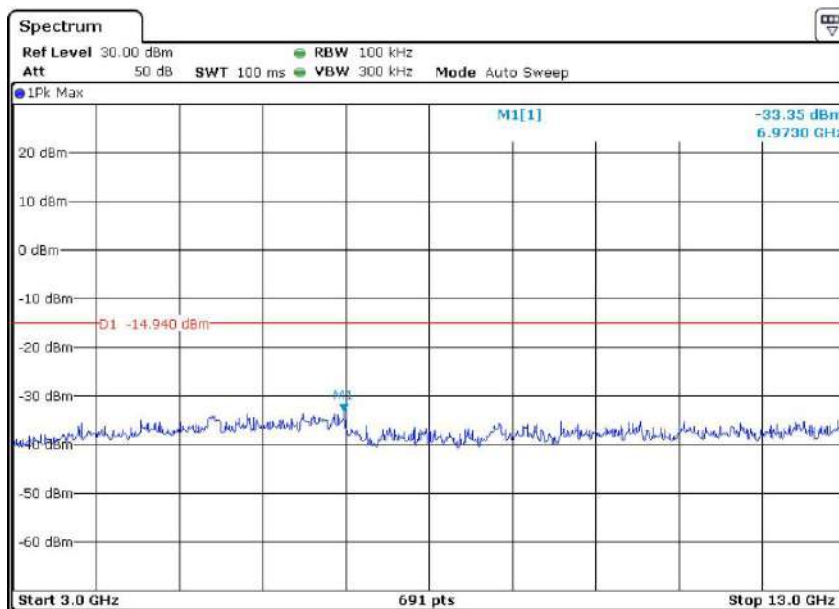
30 MHz to 1 GHz



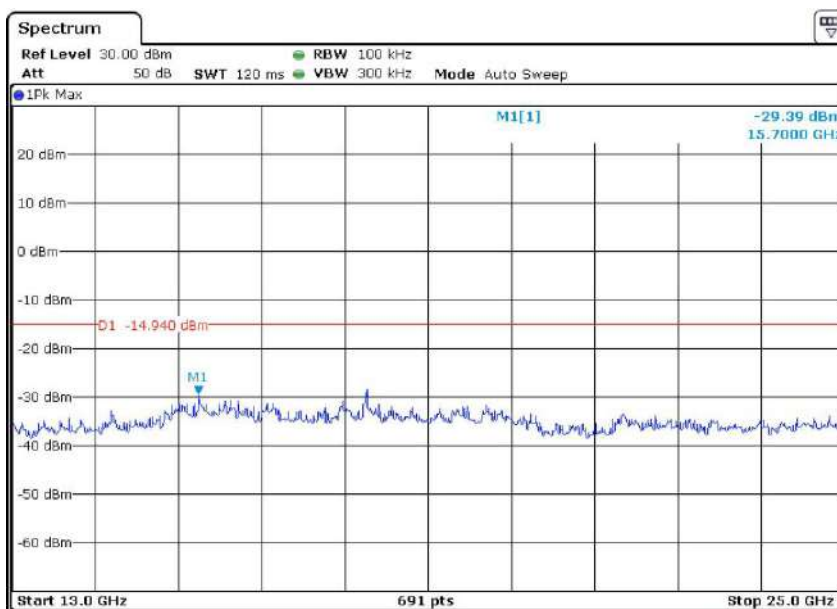
1 G to 3 GHz



3 G to 13 GHz

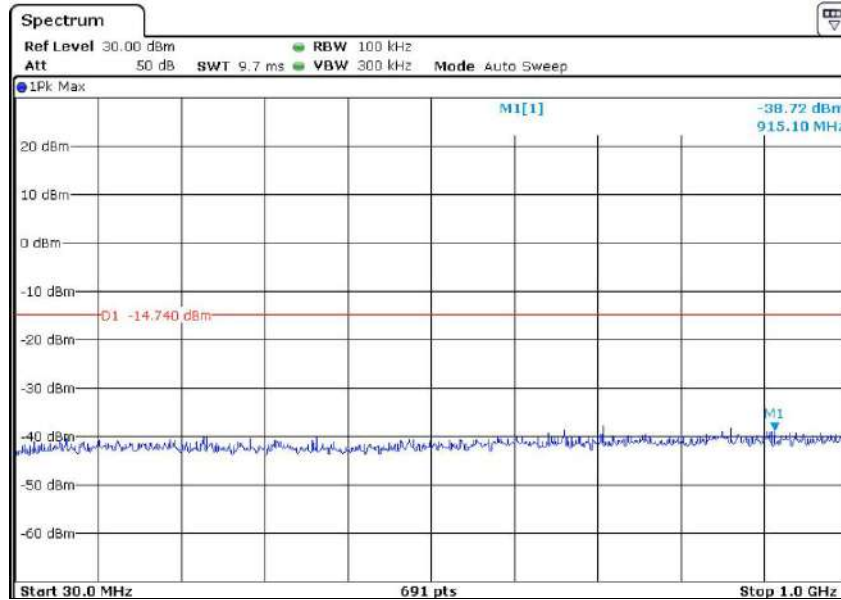


13 G to 25 GHz

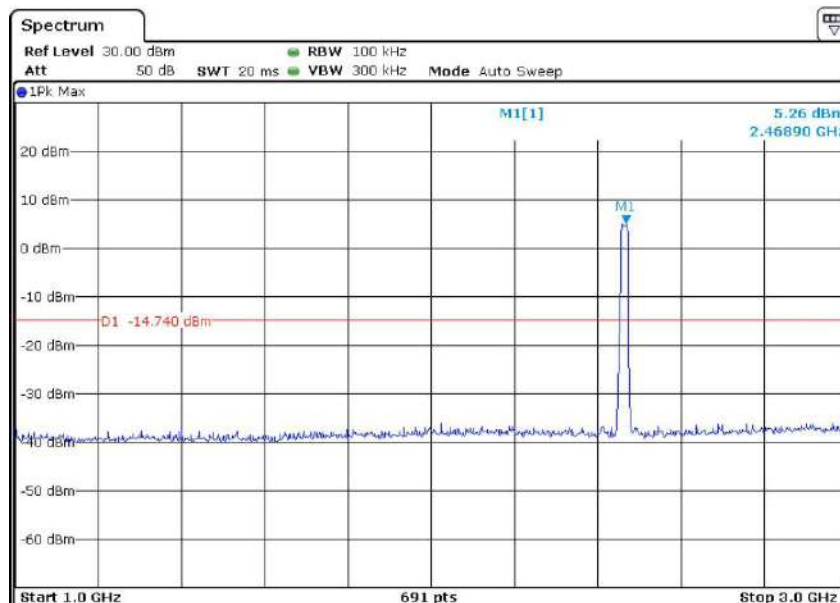


Channel 11:2.462 GHz

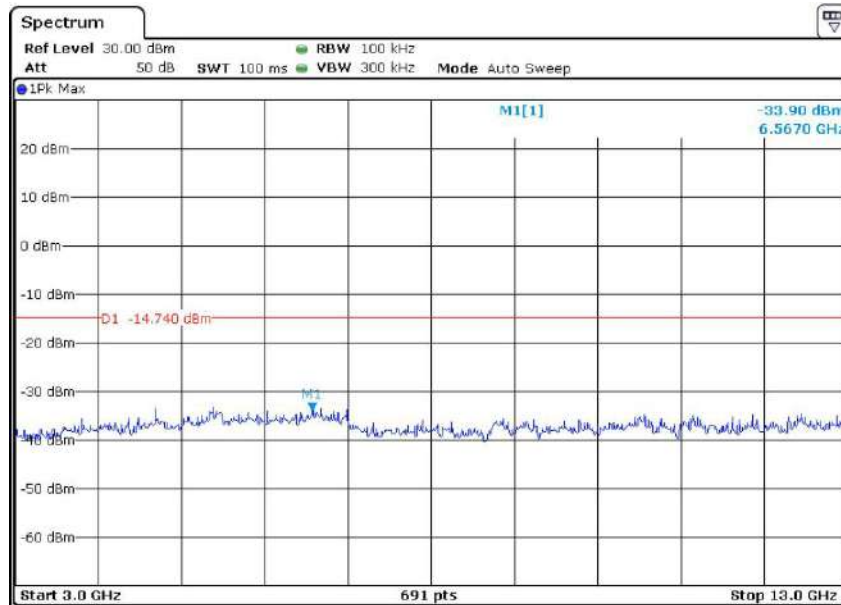
30 MHz to 1 GHz



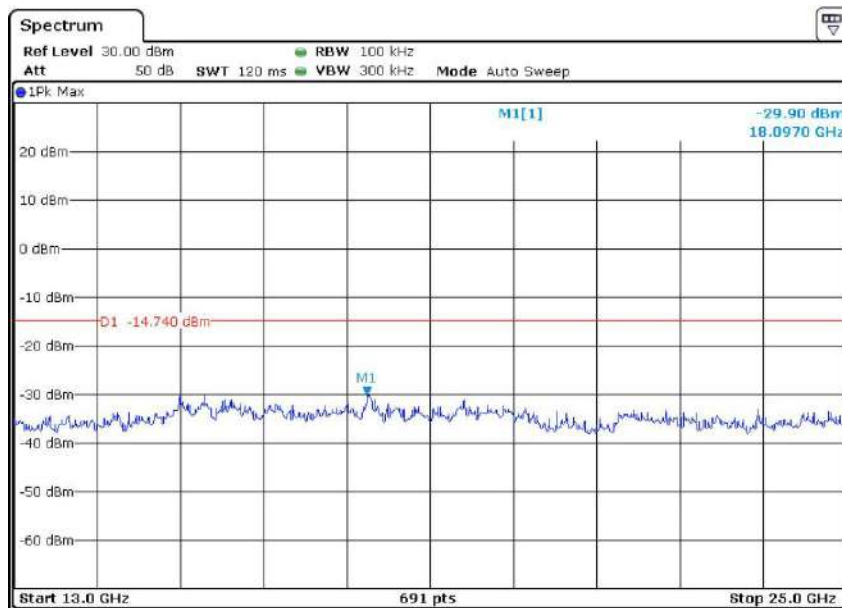
1 G to 3 GHz



3 G to 13 GHz



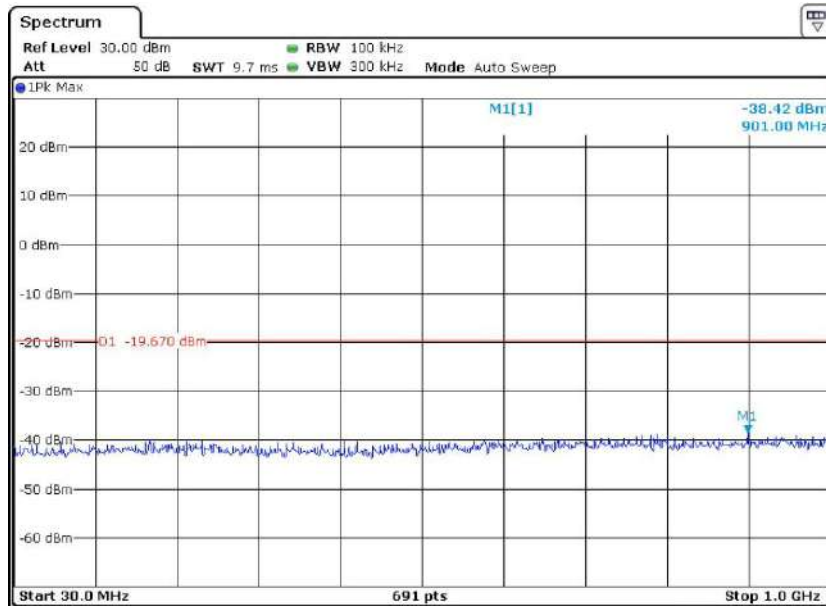
13 G to 25 GHz



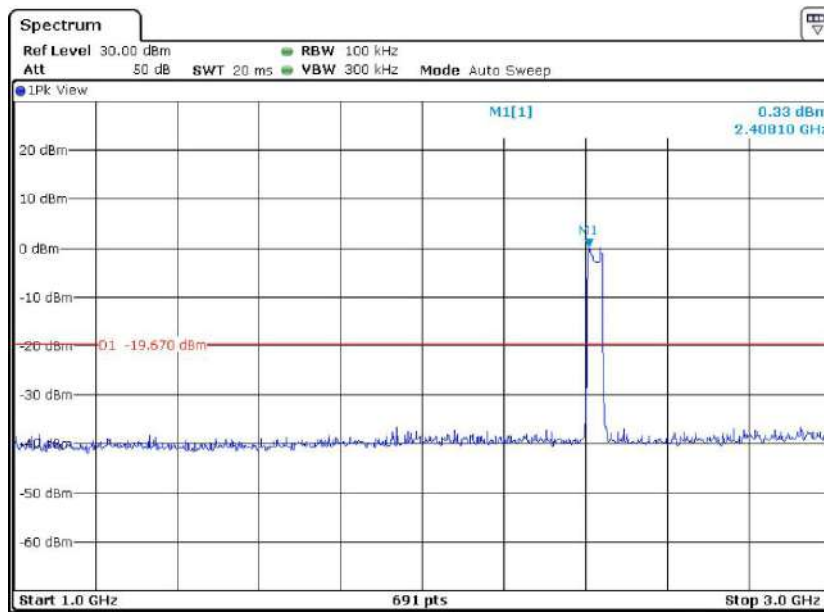
802.11n(HT40) mode with 150Mbps data rate

Channel 3: 2.422GHz:

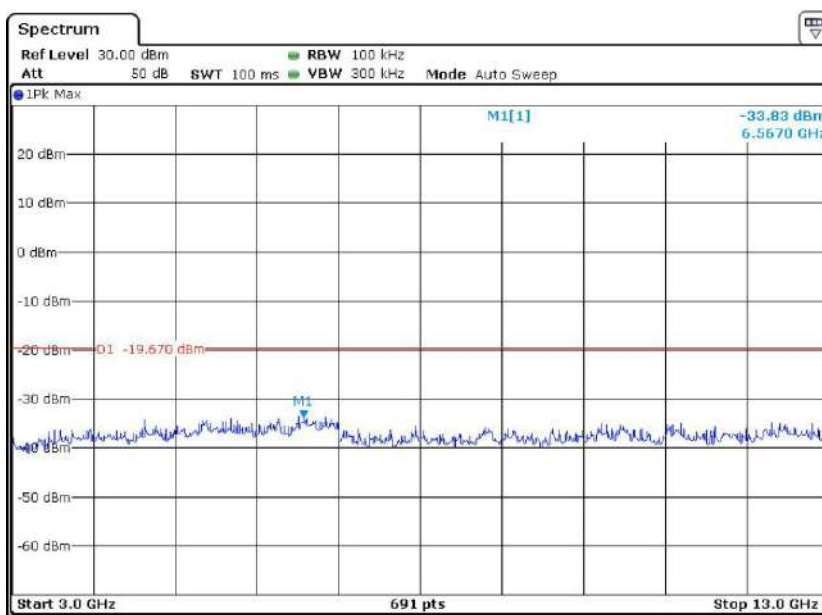
30 MHz to 1 GHz



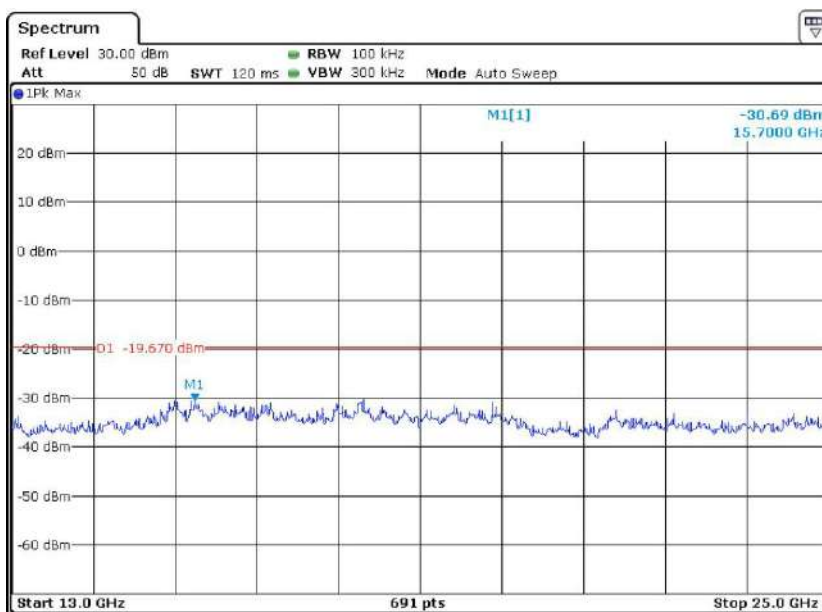
1 G to 3 GHz



3 G to 13 GHz

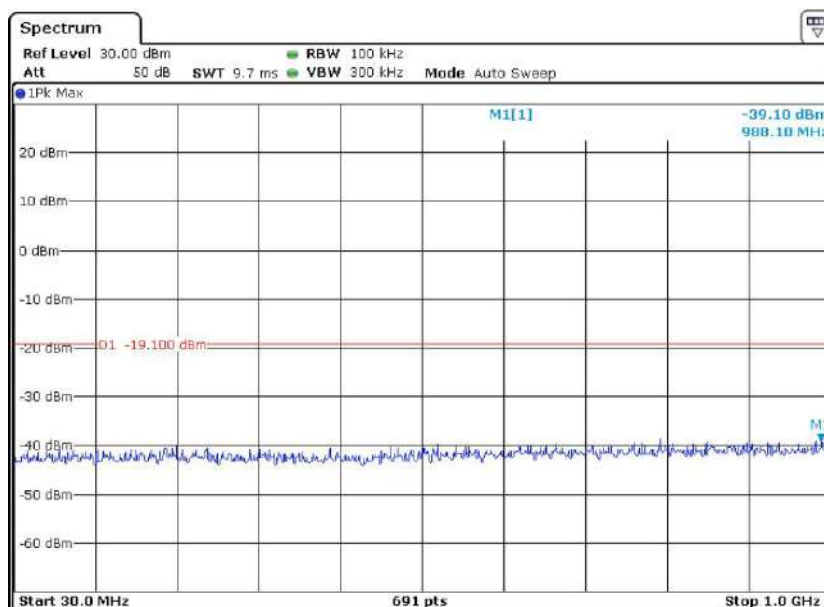


13 G to 25 GHz

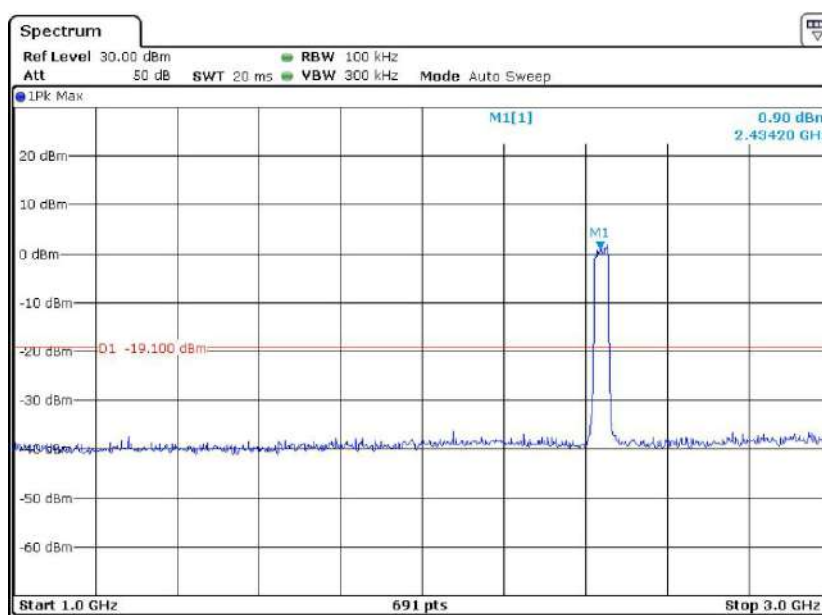


Channel 6: 2.437GHz:

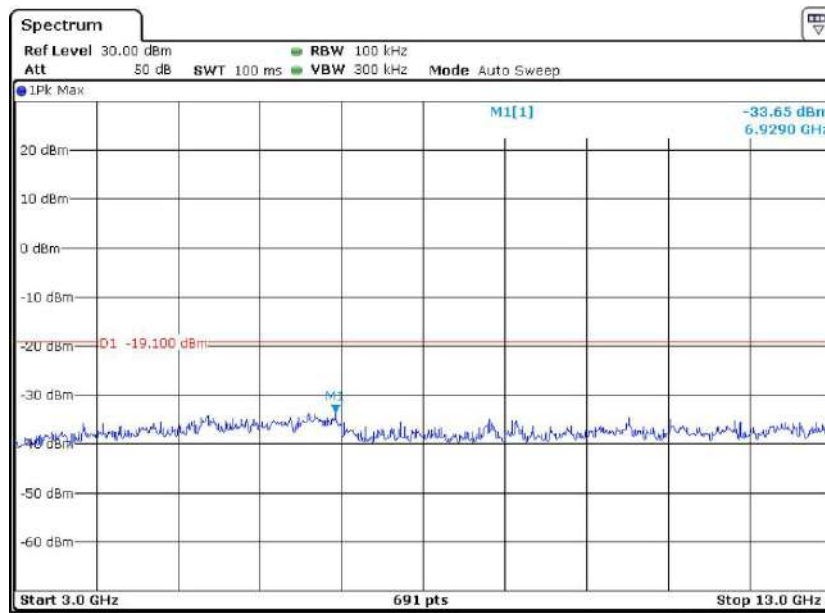
30 MHz to 1 GHz



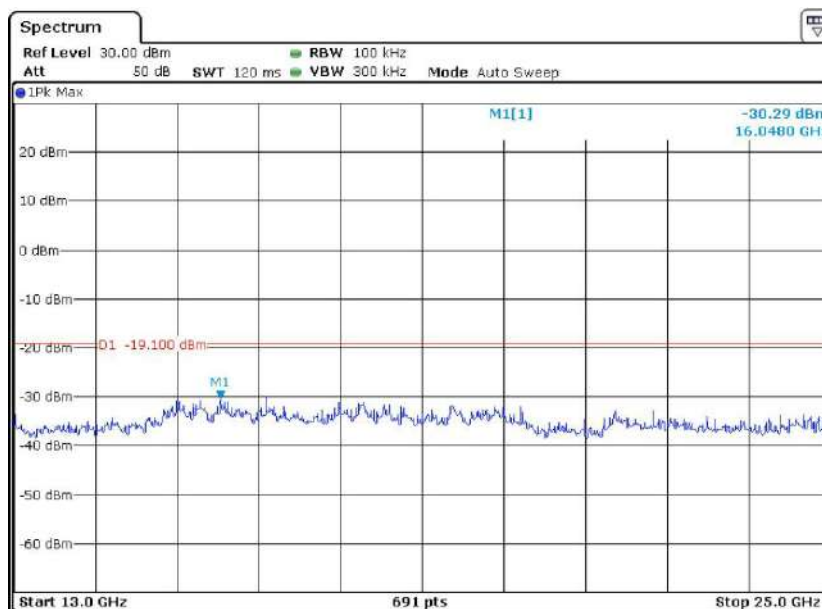
1 G to 3 GHz



3 G to 13 GHz

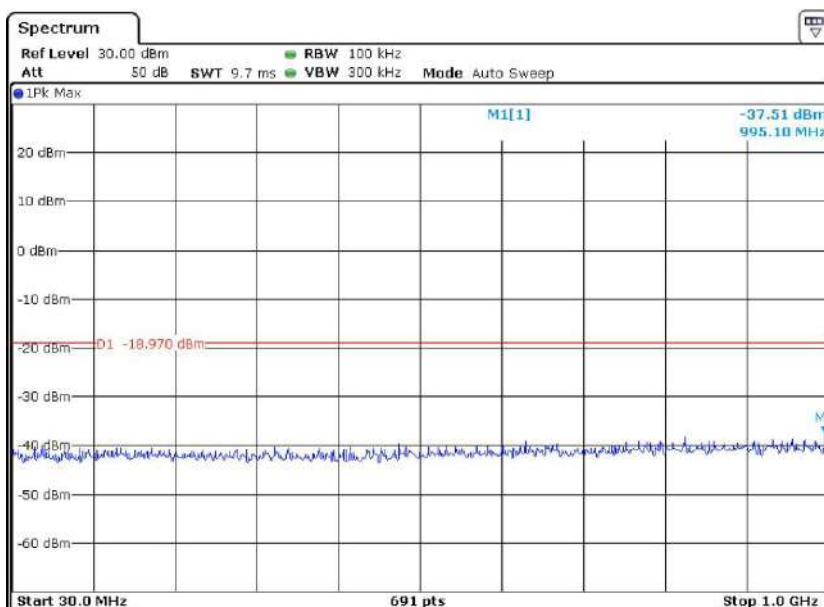


13 G to 25 GHz

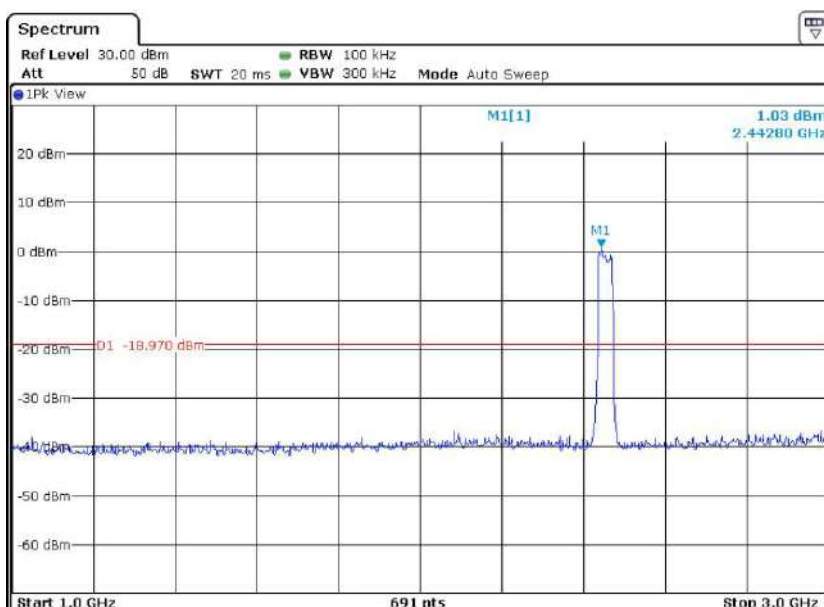


Channel 9:2.452 GHz

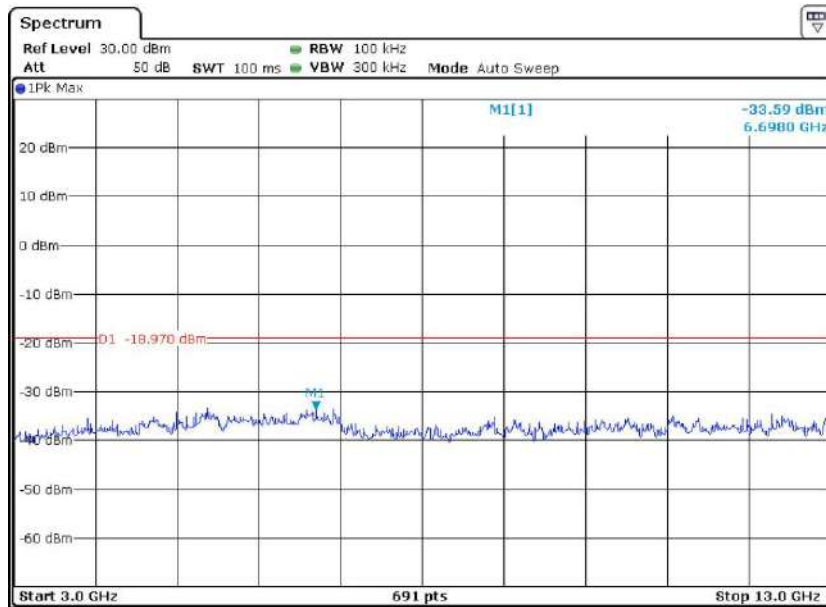
30 MHz to 1 GHz



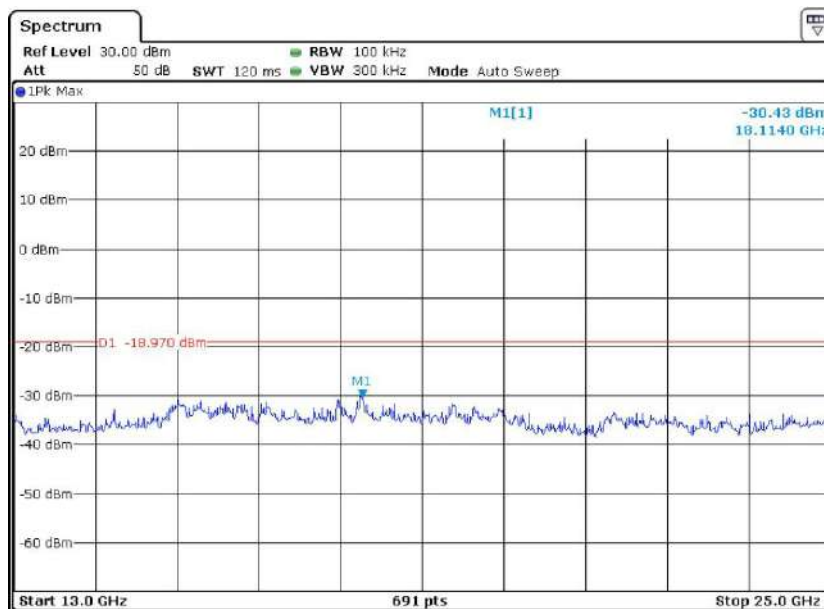
1 G to 3 GHz



3 G to 13 GHz



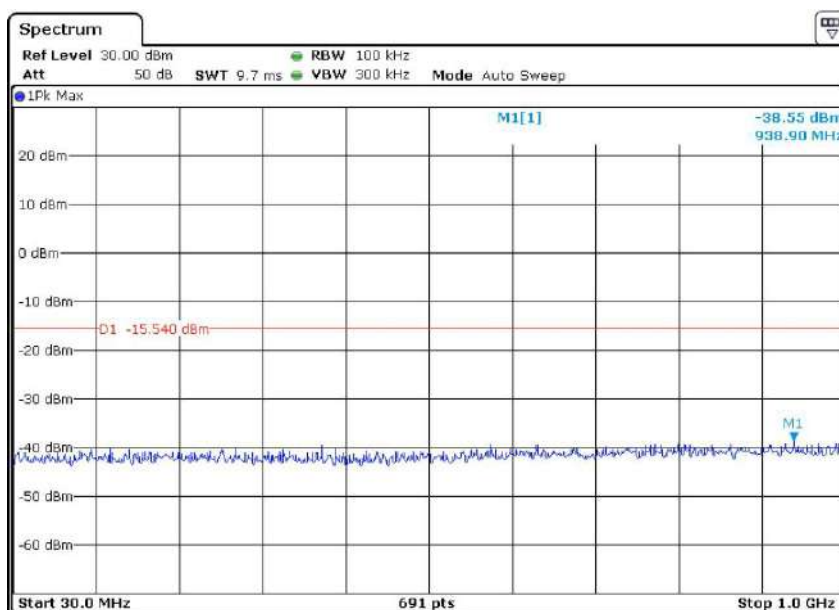
13 G to 25 GHz



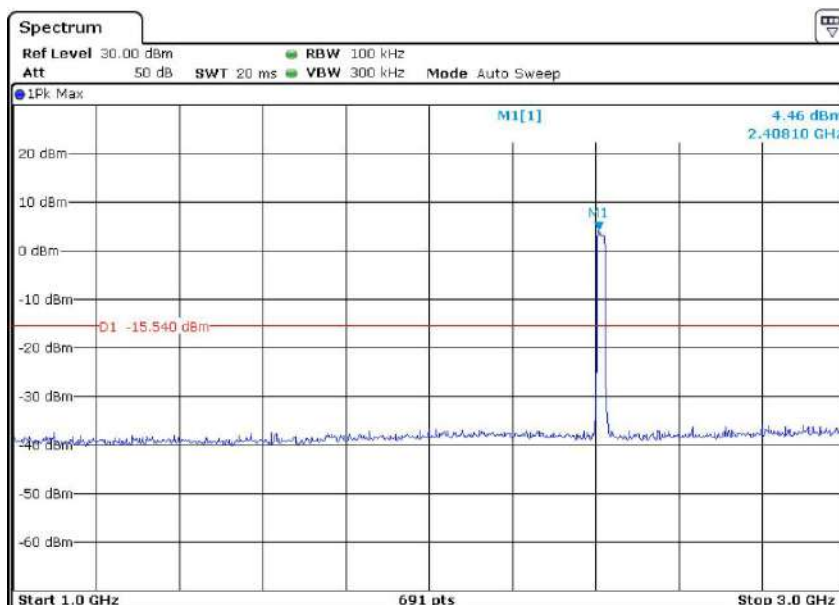
802.11ax(HE20) mode with MCS11 data rate

Channel 1: 2.412GHz:

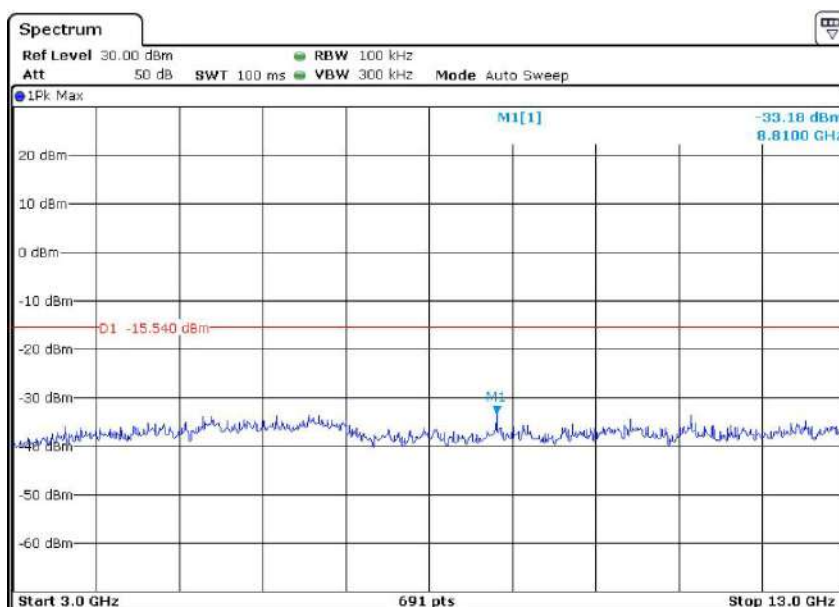
30 MHz to 1 GHz



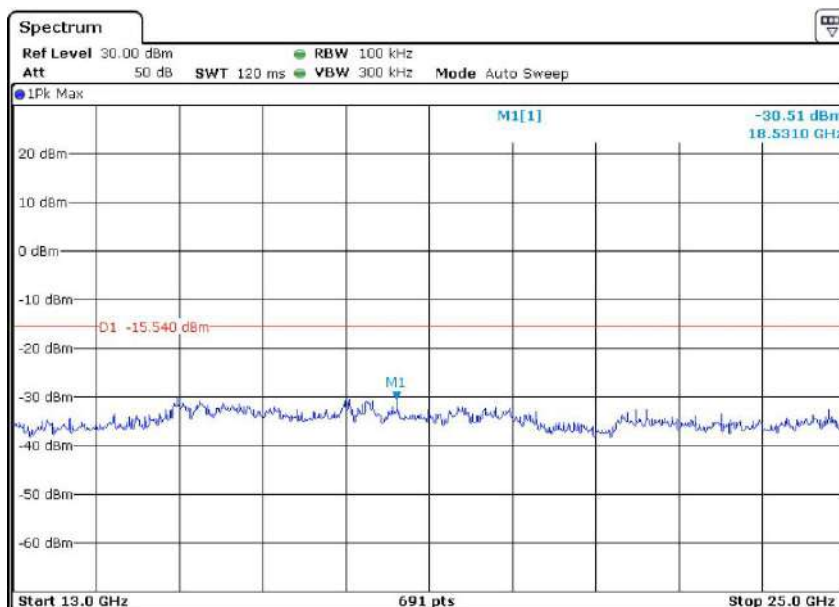
1 G to 3 GHz



3 G to 13 GHz

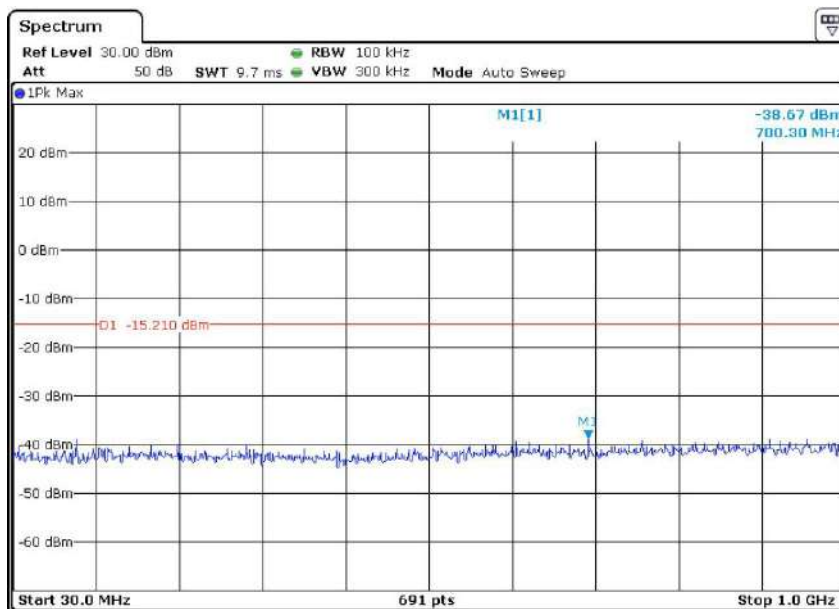


13 G to 25 GHz

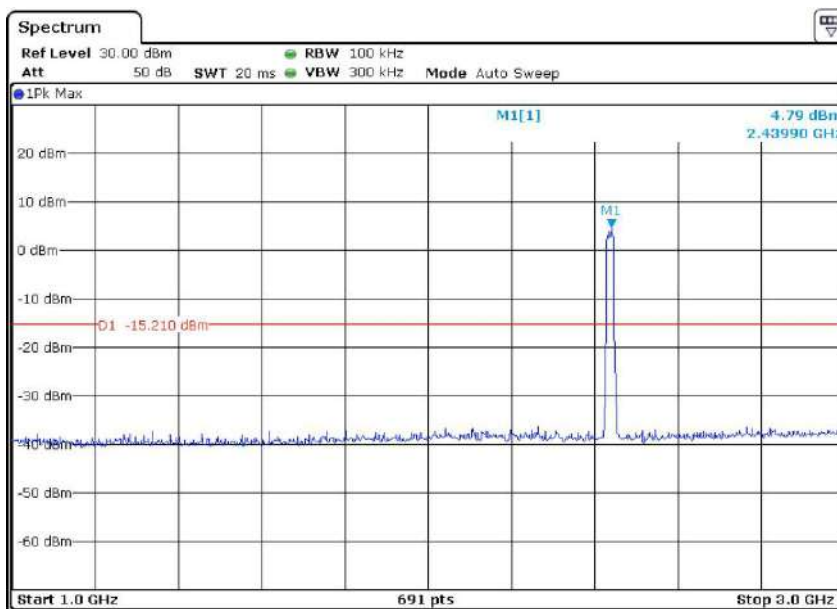


Channel 6: 2.437GHz:

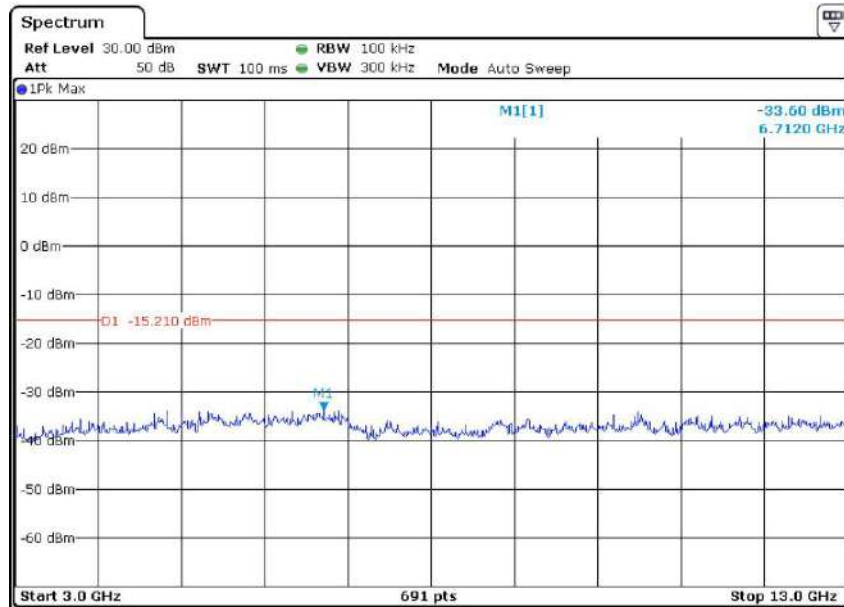
30 MHz to 1 GHz



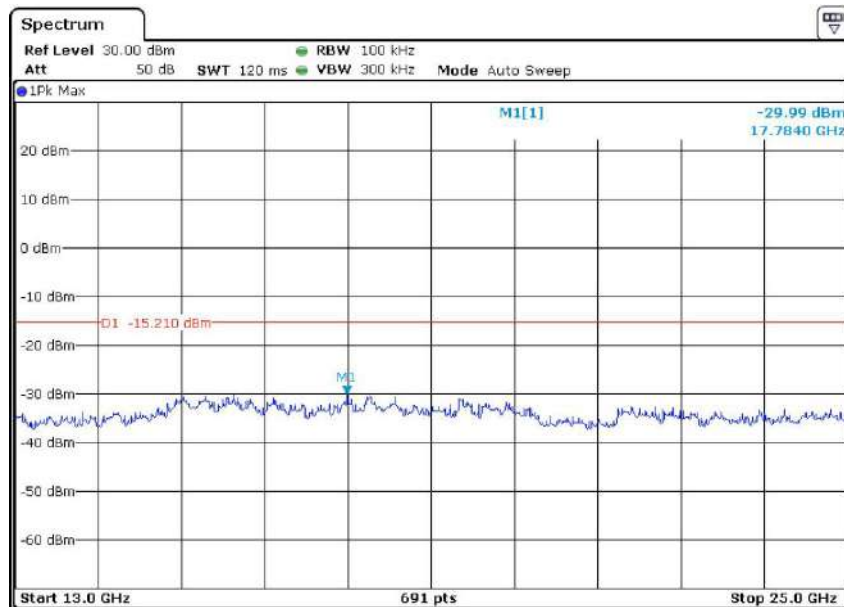
1 G to 3 GHz



3 G to 13 GHz

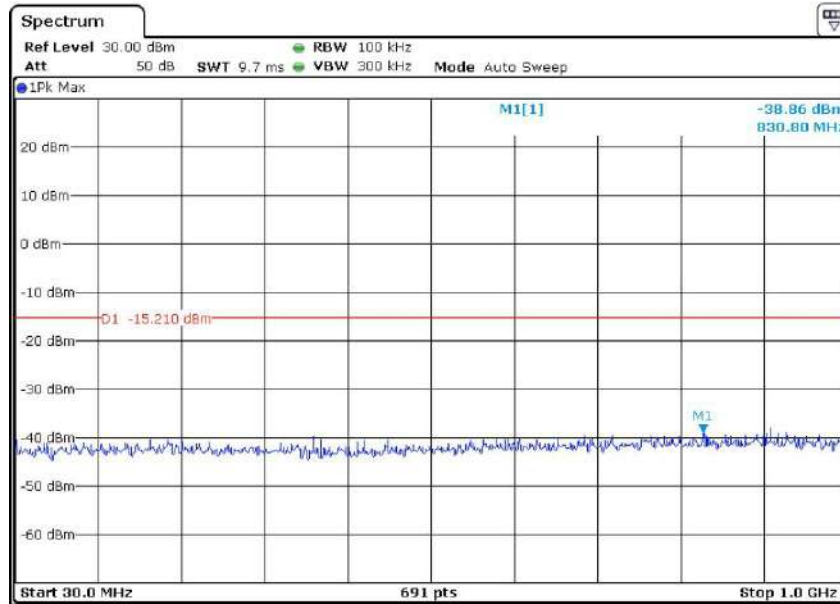


13 G to 25 GHz

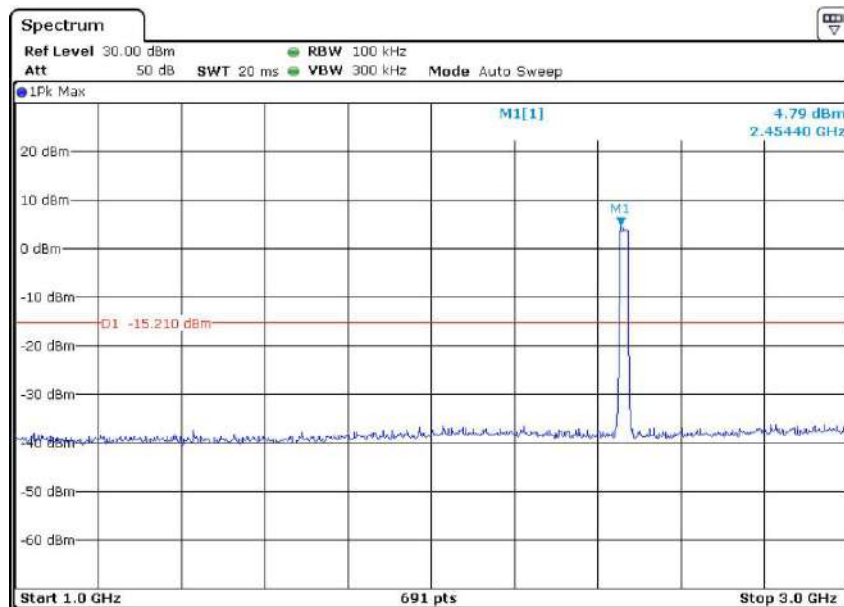


Channel 11:2.462 GHz

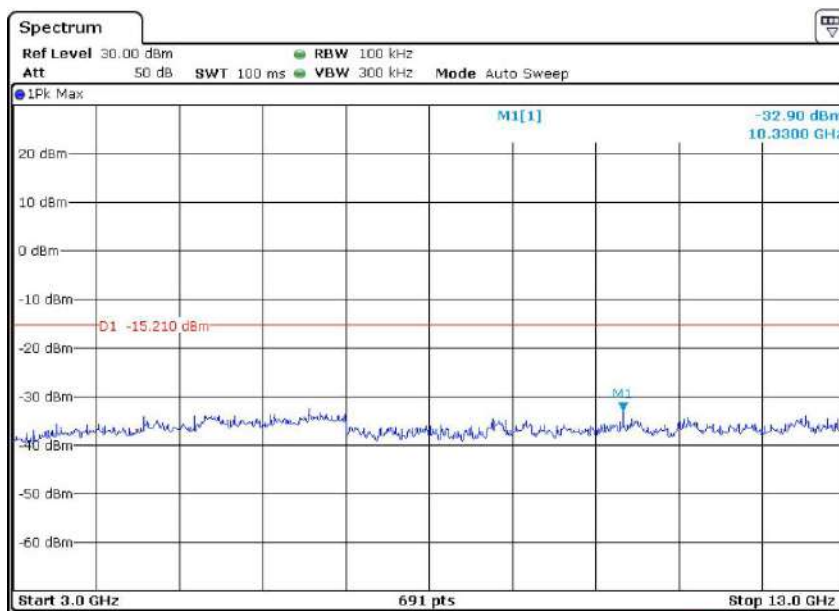
30 MHz to 1 GHz



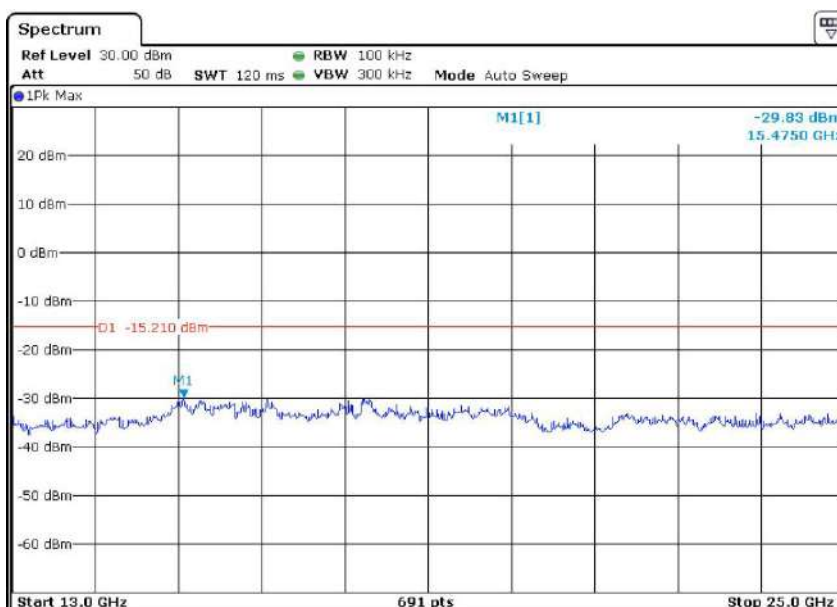
1 G to 3 GHz



3 G to 13 GHz



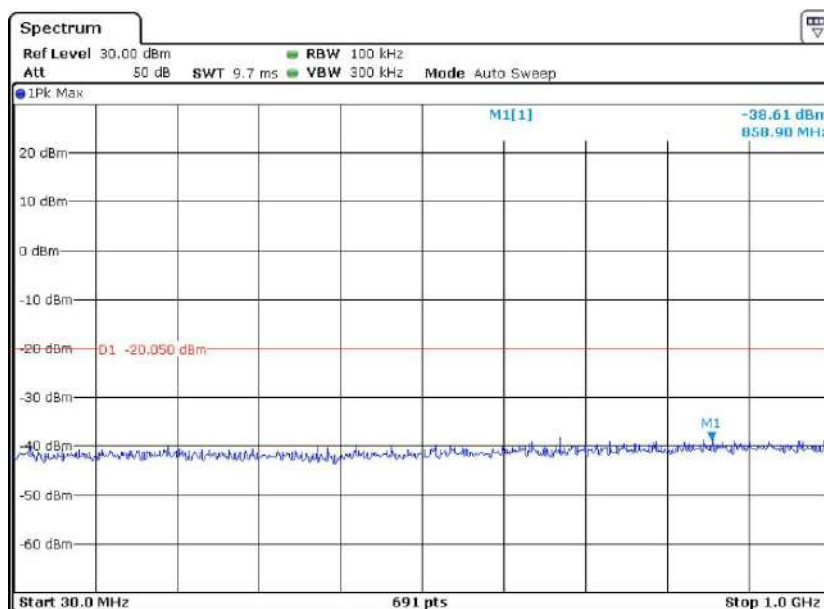
13 G to 25 GHz



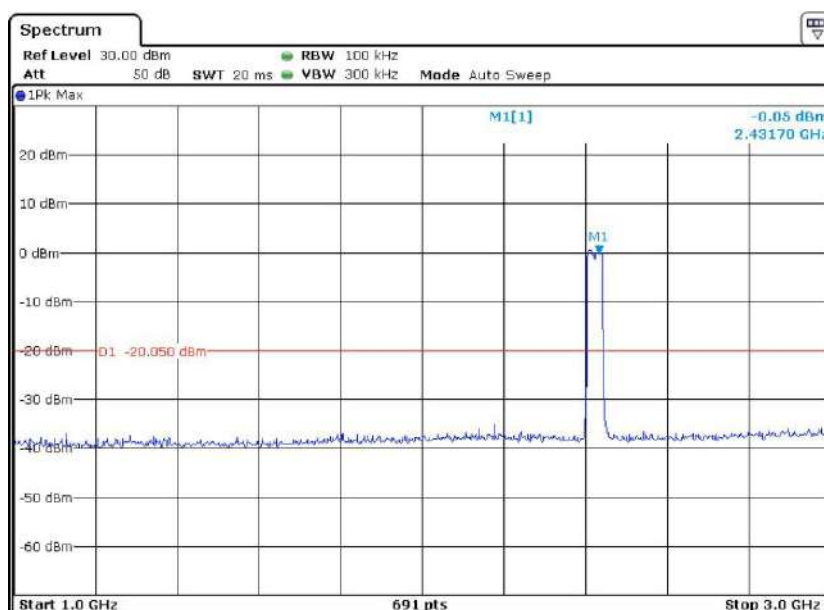
802.11ax(HE40) mode with MCS11 data rate

Channel 3: 2.422GHz:

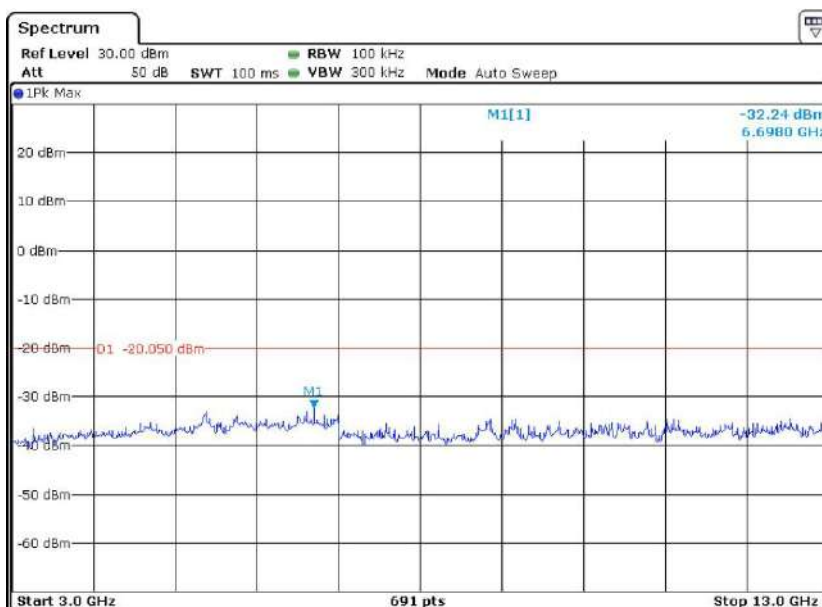
30 MHz to 1 GHz



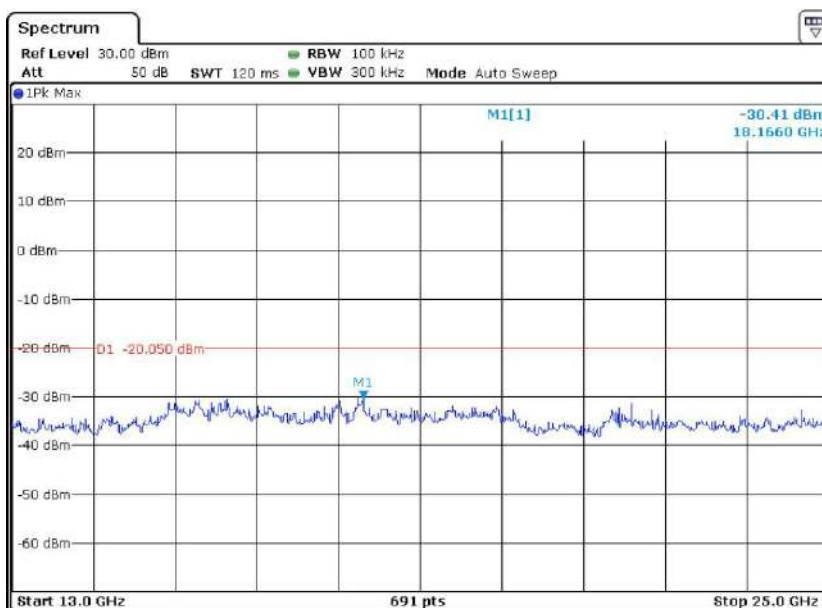
1 G to 3 GHz



3 G to 13 GHz

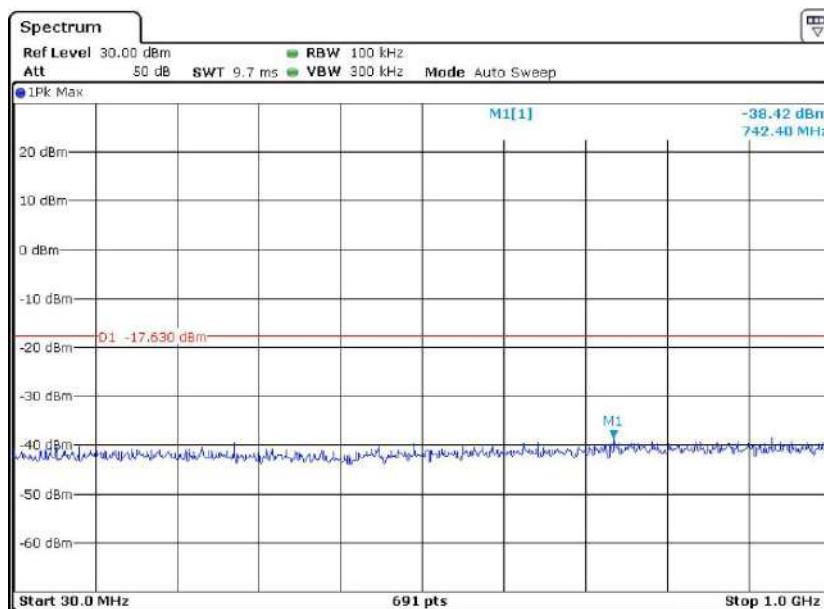


13 G to 25 GHz

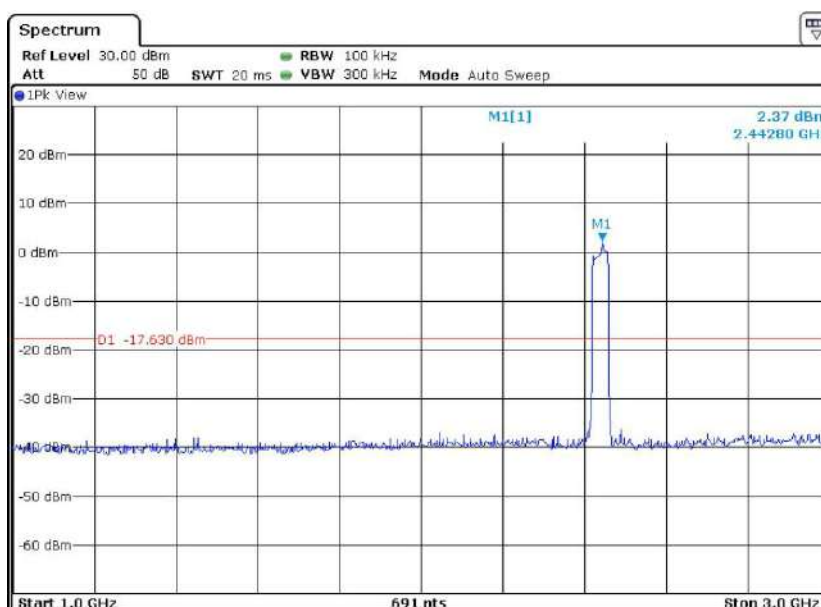


Channel 6: 2.437GHz:

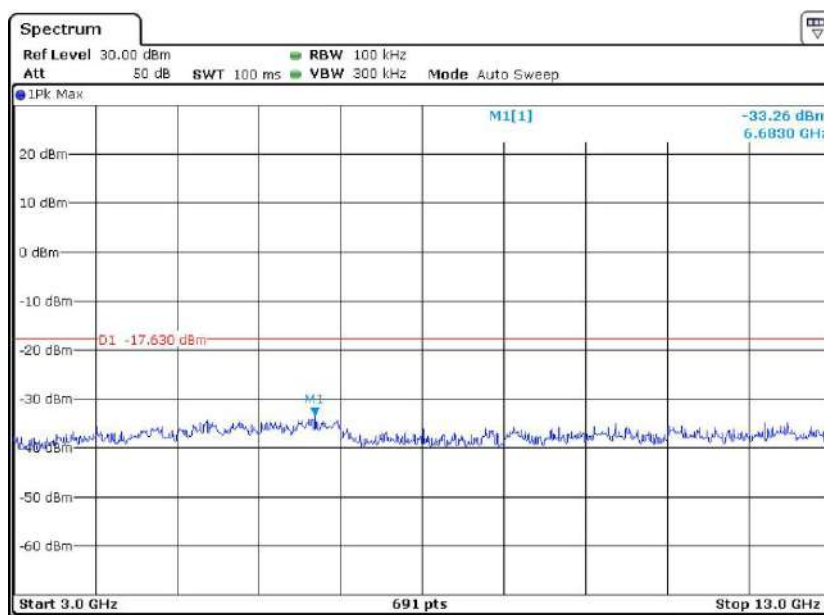
30 MHz to 1 GHz



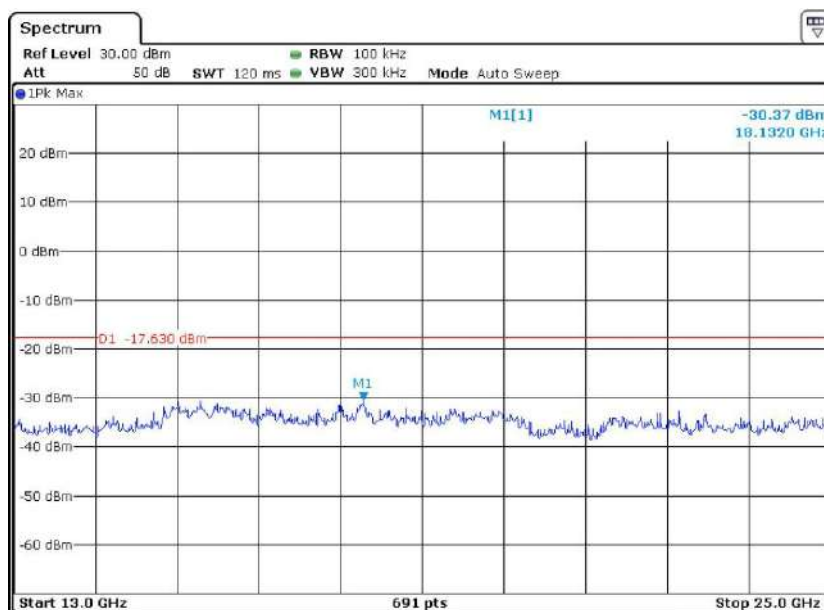
1 G to 3 GHz



3 G to 13 GHz

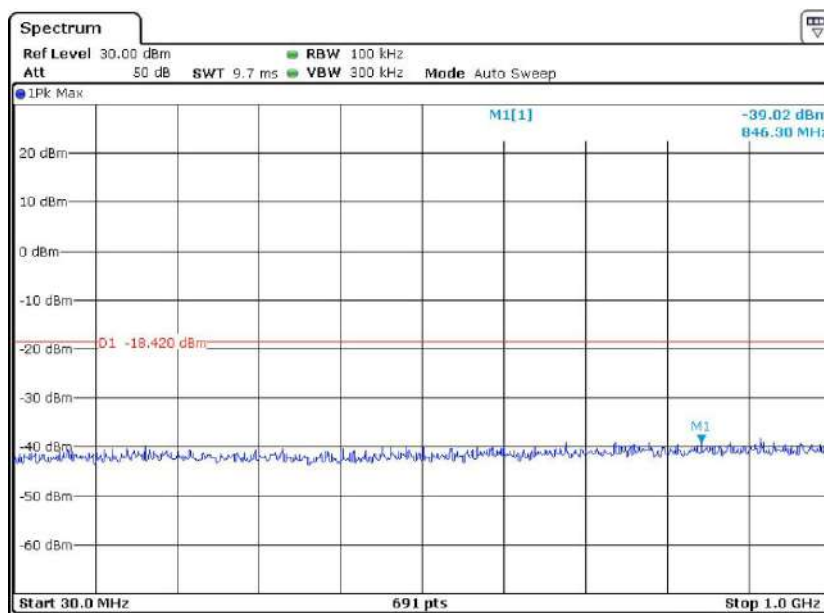


13 G to 25 GHz

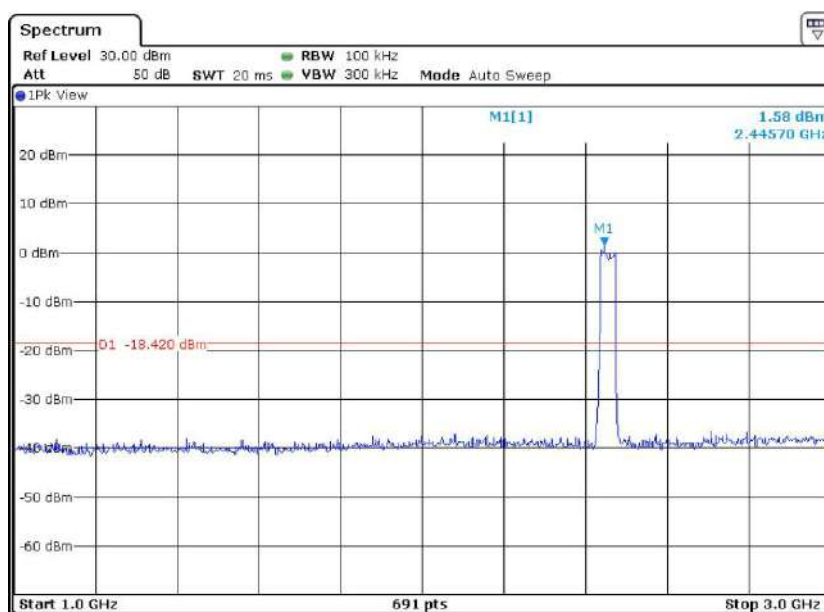


Channel 9:2.452 GHz

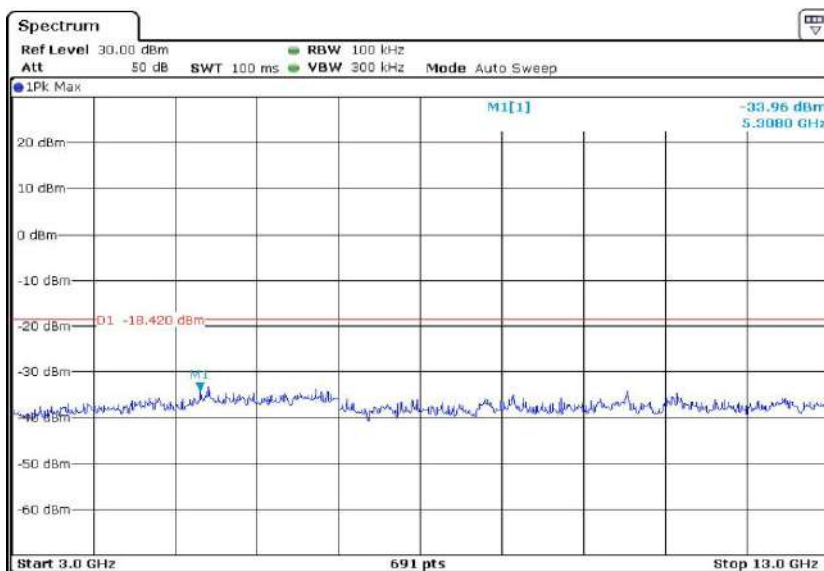
30 MHz to 1 GHz



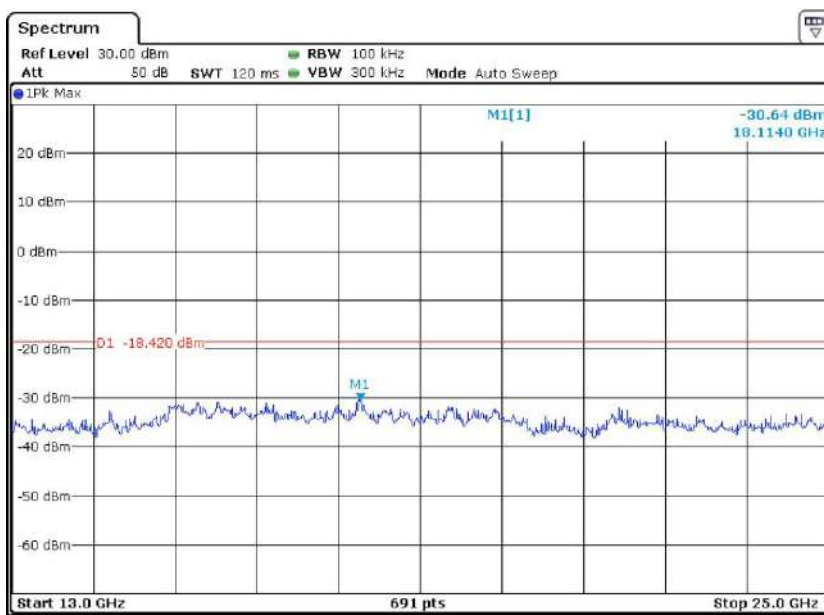
1 G to 3 GHz



3 G to 13 GHz



13 G to 25 GHz



****End of report****