



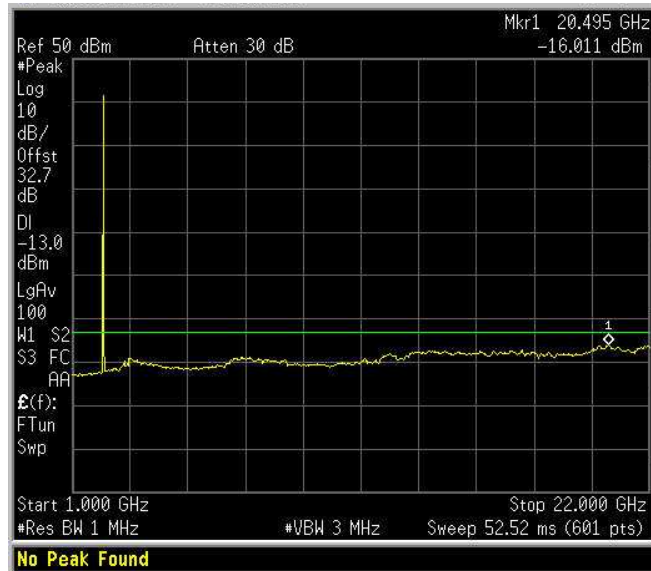
Product: TRU8A19AWVV/AC-WS

PART 2

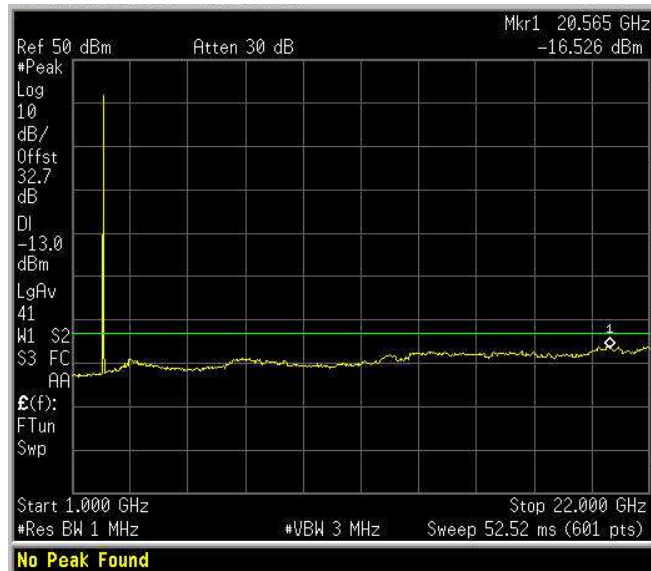


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Downlink – 1,4 QAM
1-22 GHz



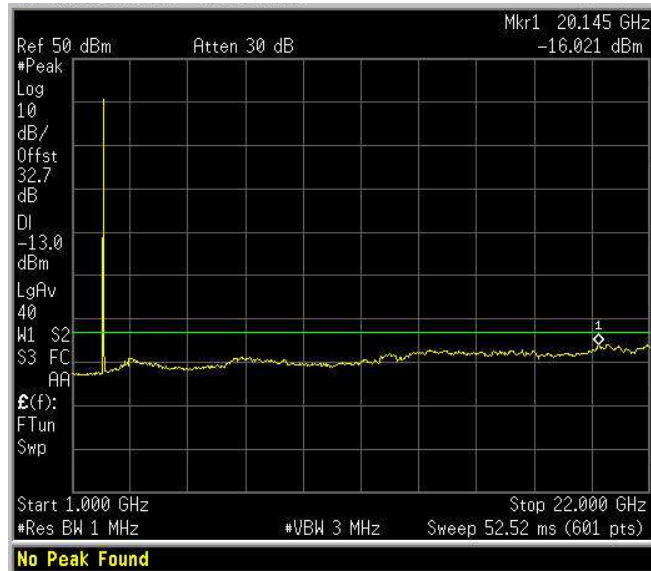
Spurious Emissions at Antenna Terminals
Downlink – 1,4 QPSK
1-22 GHz



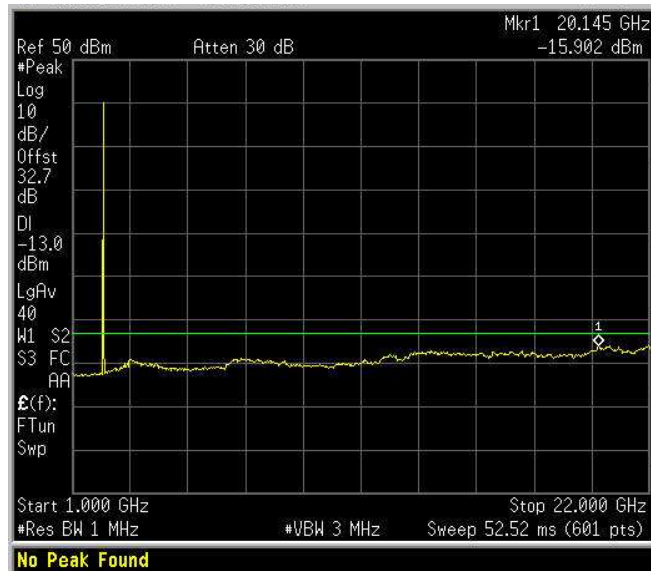


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Downlink – 3 QAM
1-22 GHz



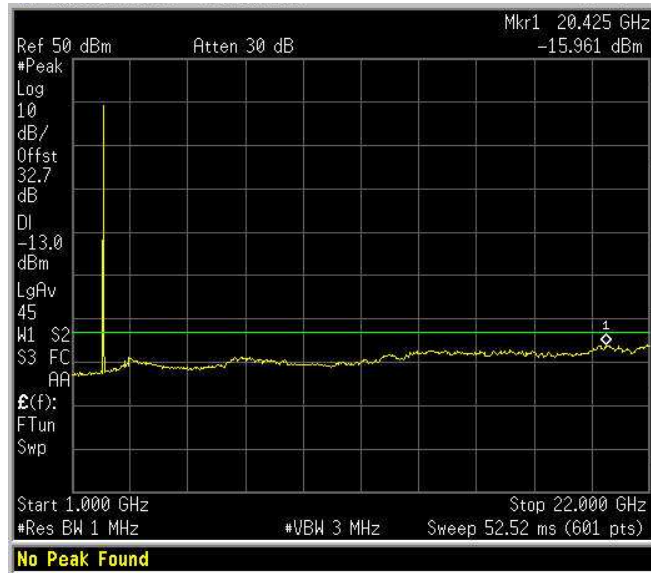
Spurious Emissions at Antenna Terminals
Downlink – 3 QPSK
1-22 GHz



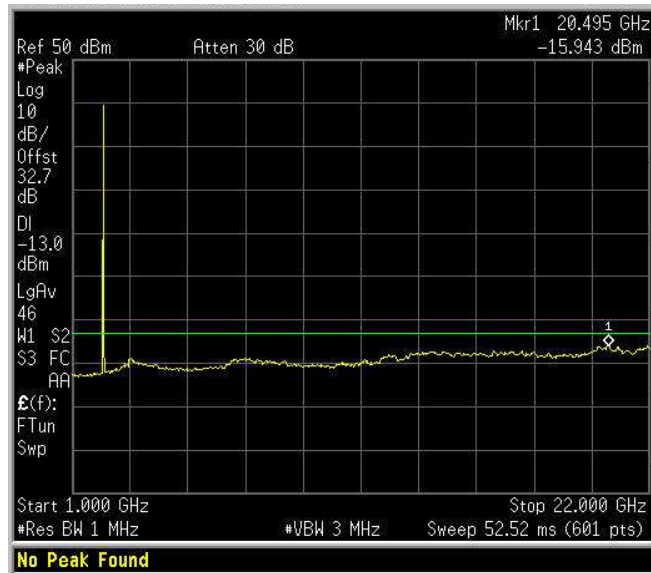


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Downlink – 5 QAM
1-22 GHz



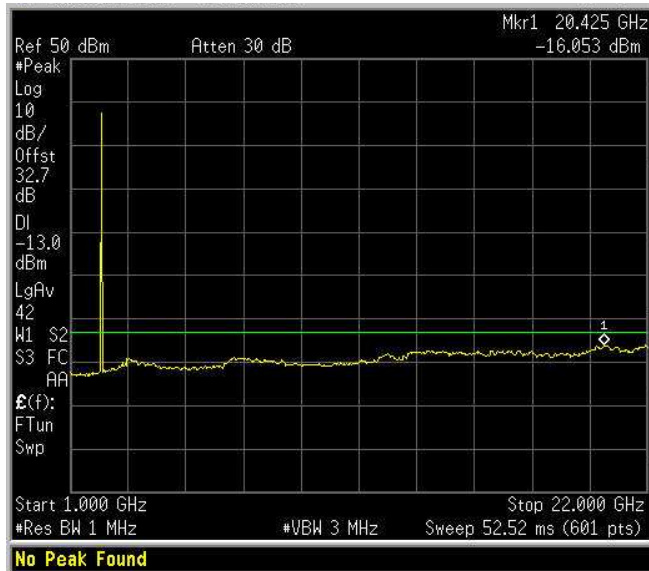
Spurious Emissions at Antenna Terminals
Downlink – 5 QPSK
1-20 GHz



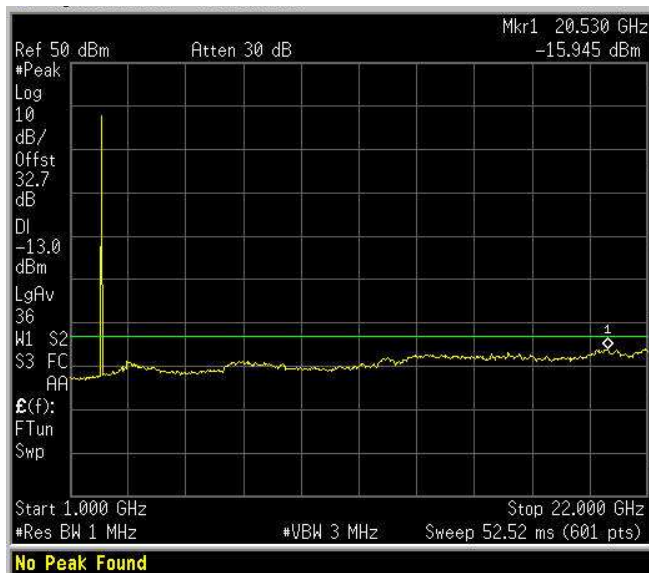


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Downlink – 10 QAM
1-22 GHz



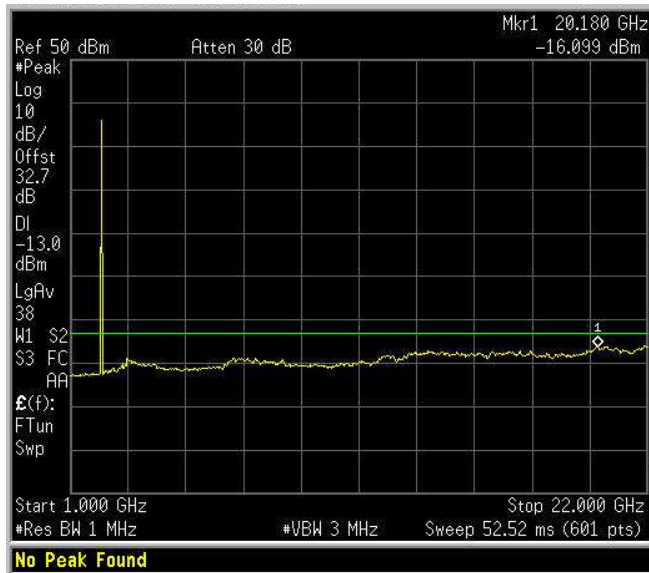
Spurious Emissions at Antenna Terminals
Downlink – 10 QPSK
1-22 GHz



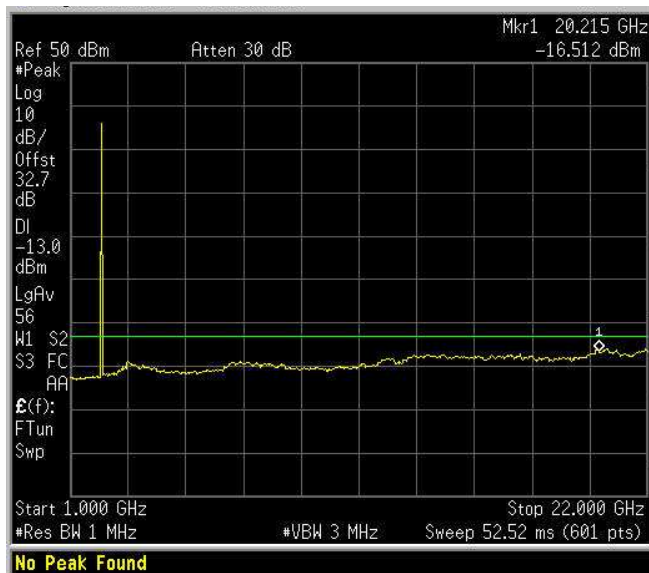


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Downlink – 15 QAM
1-22GHz



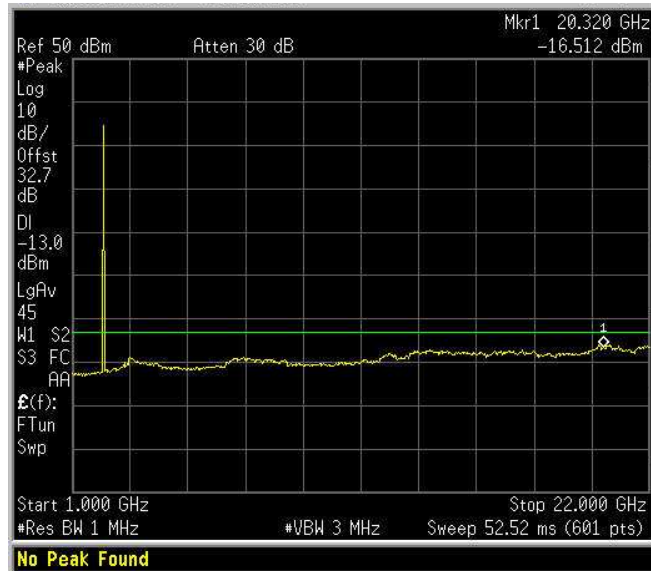
Spurious Emissions at Antenna Terminals
Downlink – 15 QPSK
1-22GHz



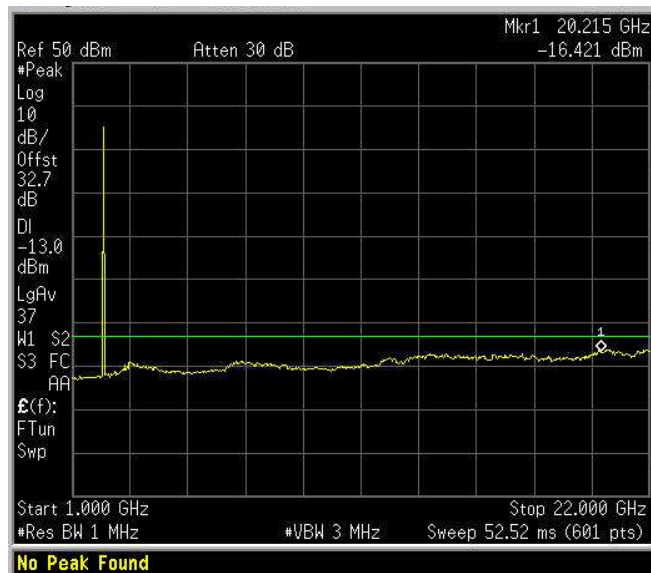



Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Downlink – 20 QAM
1-22GHz



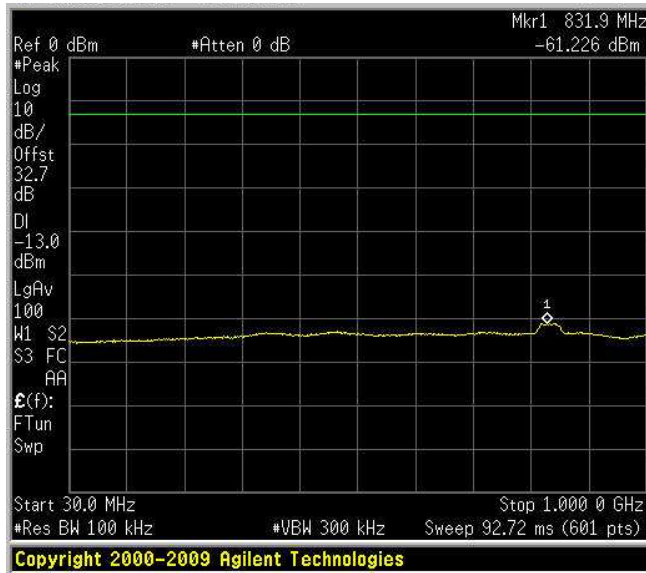
Spurious Emissions at Antenna Terminals
Downlink – 20 QPSK
1-22GHz



	Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
	Test name: Clause 27. 53(h) Spurious emissions		
	Test date: 20-27 Sept 2010		Test engineer: G. Curioni
	Verdict: Pass		Supply input: 100-240 Vac
	Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27			

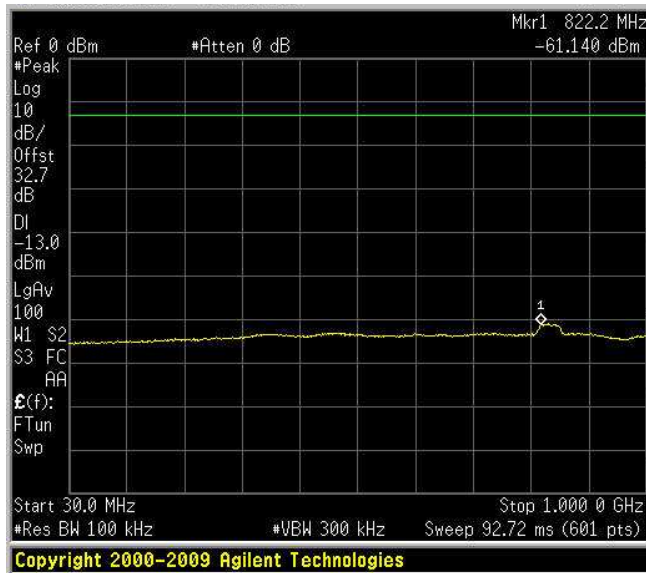
Spurious Emissions at Antenna Terminals

Uplink 1.4 QAM
30MHz – 1 GHz



Spurious Emissions at Antenna Terminals

Uplink – 1,4 QPSK
30MHz – 1 GHz

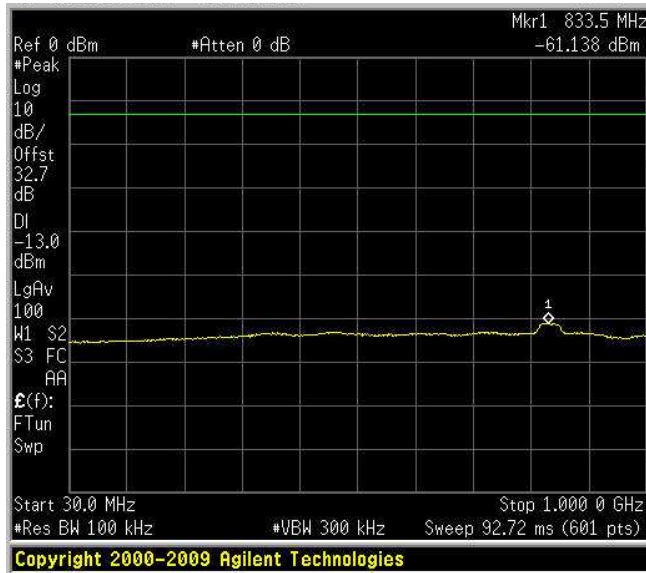




Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

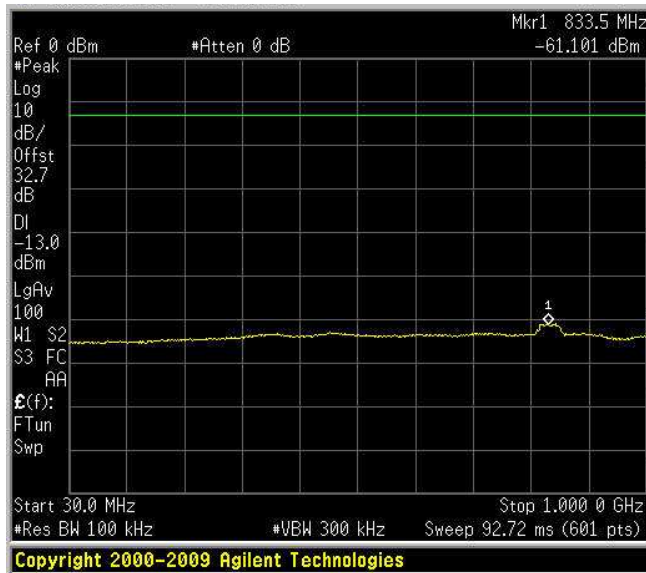
Spurious Emissions at Antenna Terminals

Uplink – 3 QAM
30MHz – 1 GHz



Spurious Emissions at Antenna Terminals

Uplink – 3 QPSK
30MHz – 1 GHz

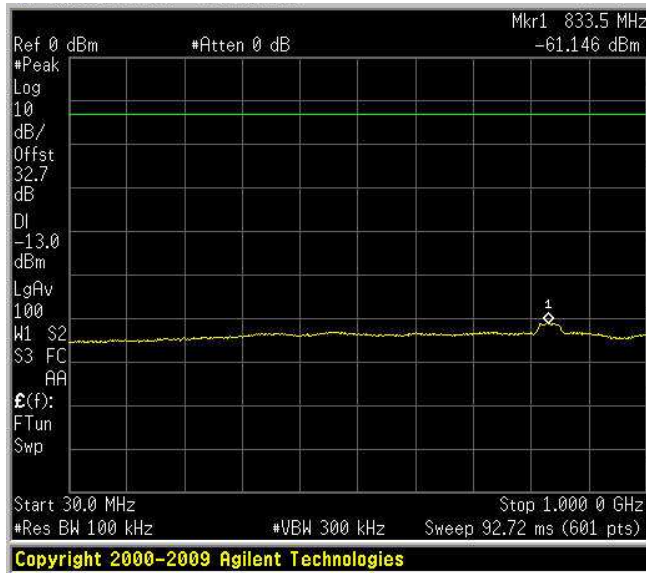




Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

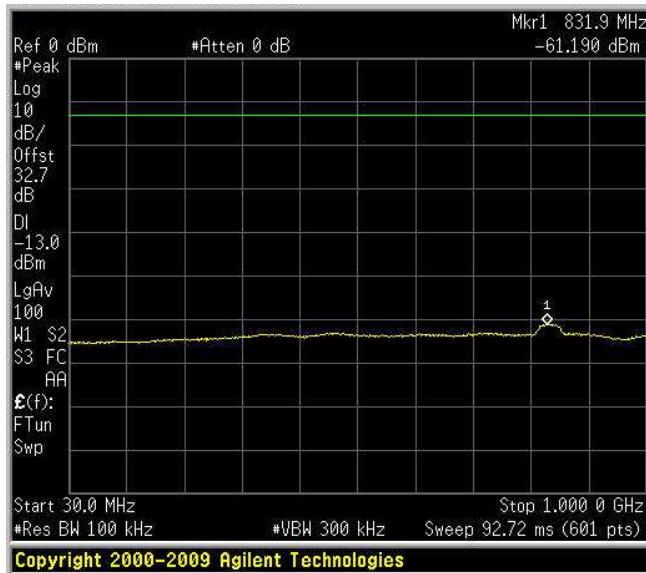
Spurious Emissions at Antenna Terminals

Uplink – 5 QAM
30MHz – 1 GHz



Spurious Emissions at Antenna Terminals

Uplink – 5 QPSK
30MHz – 1 GHz

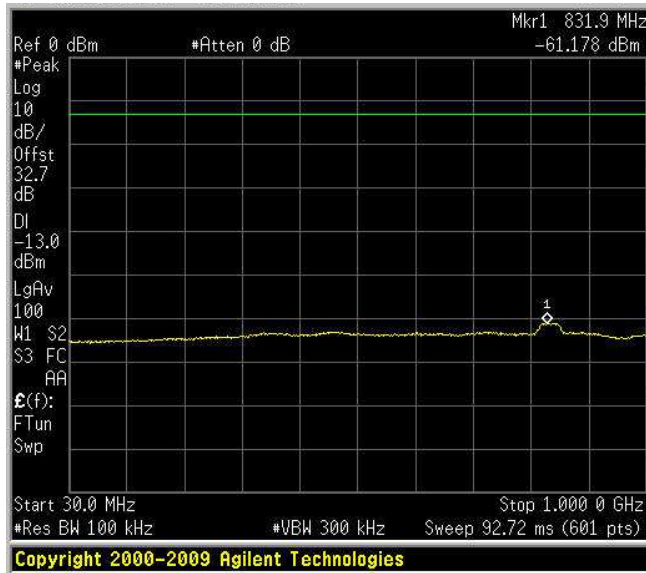




Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

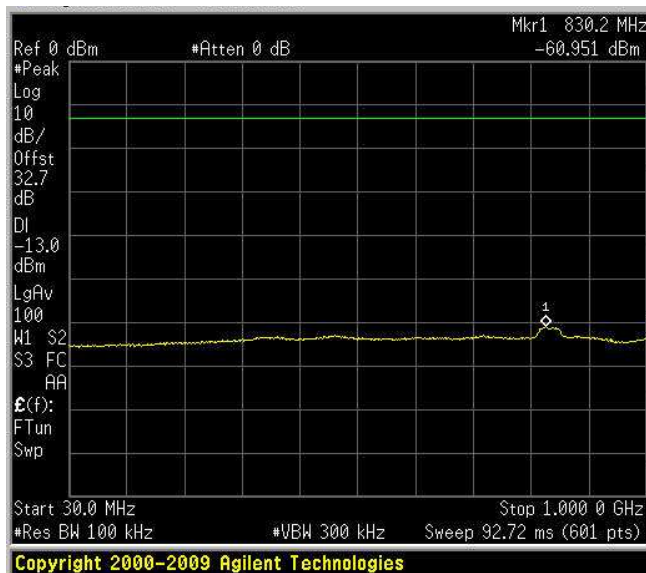
Spurious Emissions at Antenna Terminals


Uplink – 10 QAM
30MHz – 1 GHz



Spurious Emissions at Antenna Terminals

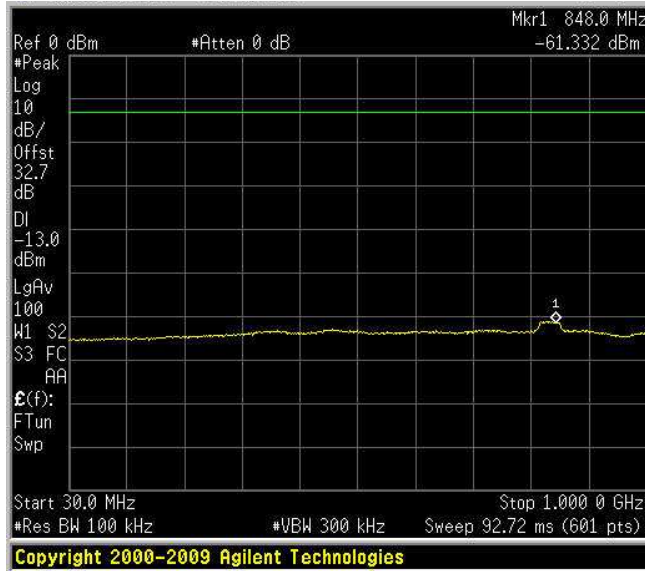
Uplink – 10 QPSK
30MHz – 1 GHz



	Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
	Test name: Clause 27. 53(h) Spurious emissions		
	Test date: 20-27 Sept 2010		Test engineer: G. Curioni
	Verdict: Pass		Supply input: 100-240 Vac
	Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27			

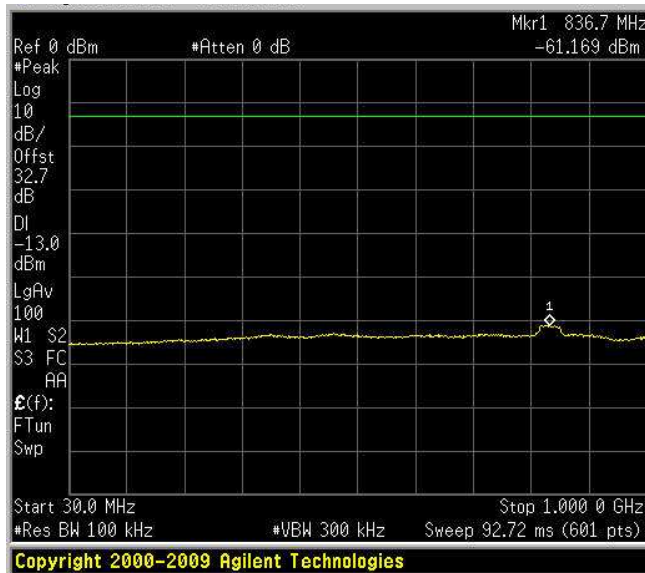
Spurious Emissions at Antenna Terminals

Uplink – 15 QAM
30MHz – 1 GHz



Spurious Emissions at Antenna Terminals

Uplink – 15 QPSK
30MHz – 1 GHz

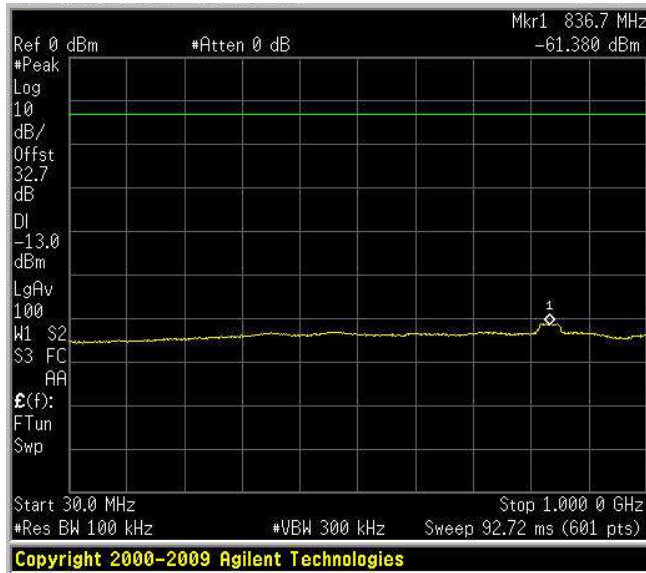




Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

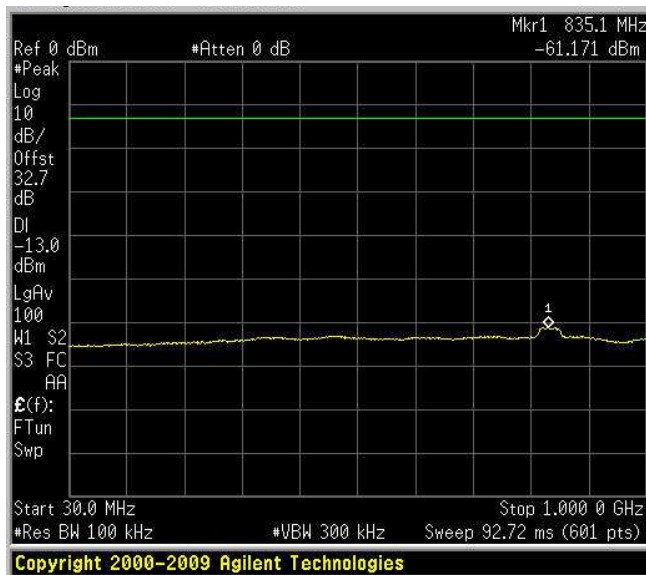
Spurious Emissions at Antenna Terminals

Uplink – 20 QAM
30MHz – 1 GHz



Spurious Emissions at Antenna Terminals

Uplink – 20 QPSK
30MHz – 1 GHz



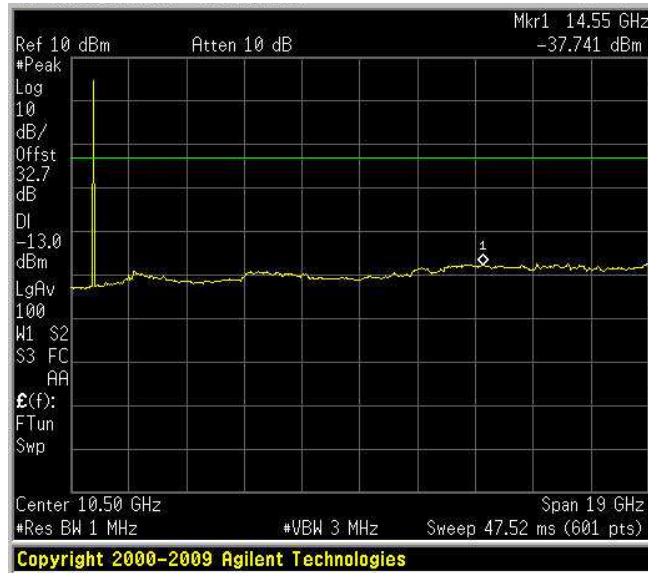


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals

Uplink – 1,4 QAM

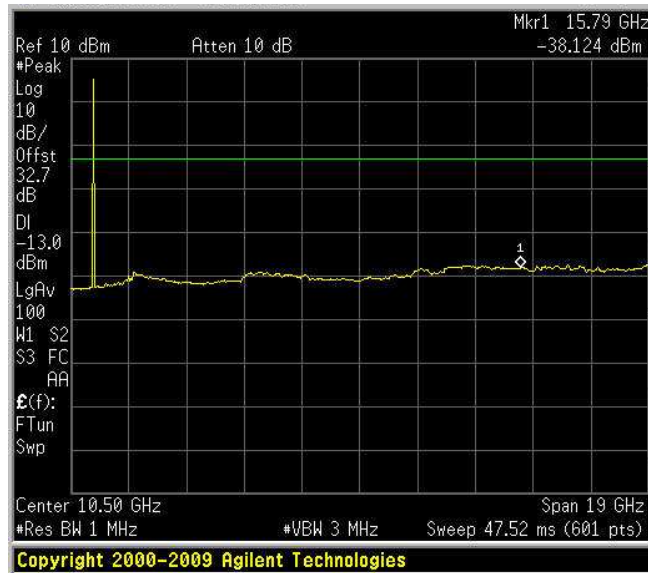
1-20 GHz



Spurious Emissions at Antenna Terminals

Uplink – 1,4 QPSK

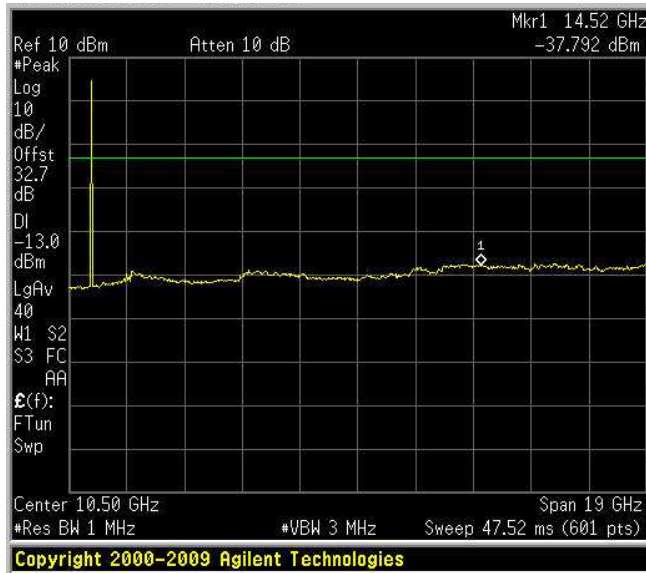
1-20 GHz



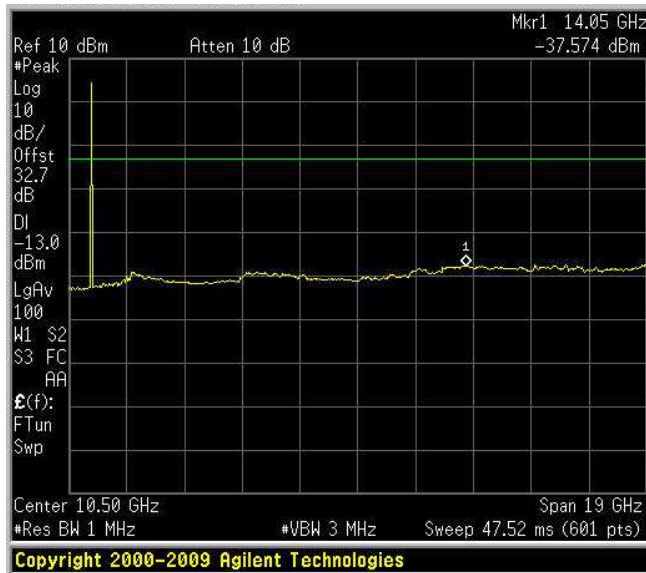


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Uplink – 3 QAM
1-20 GHz



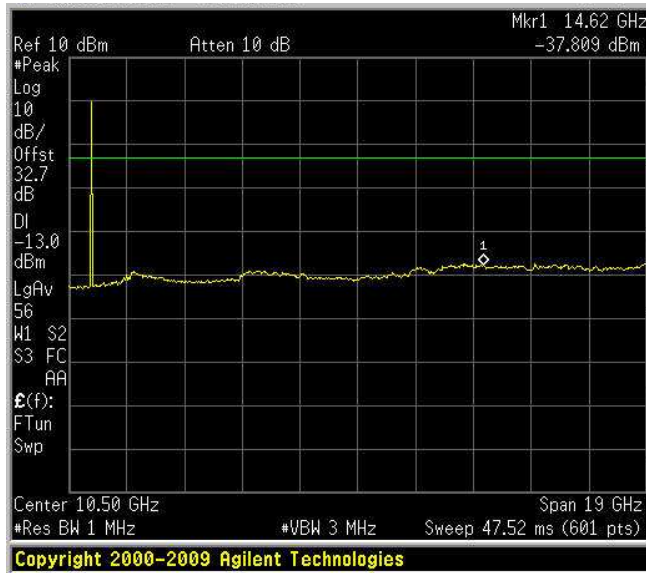
Spurious Emissions at Antenna Terminals
Uplink – 3 QPSK
1-20 GHz



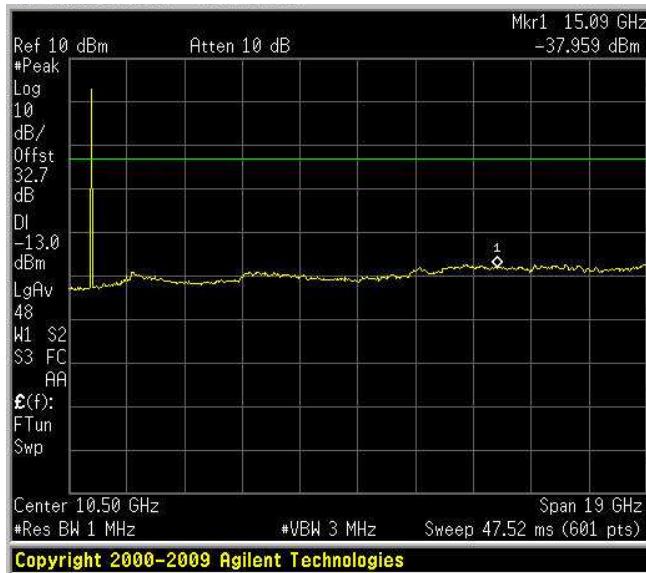


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Uplink – 5 QAM
1-20 GHz



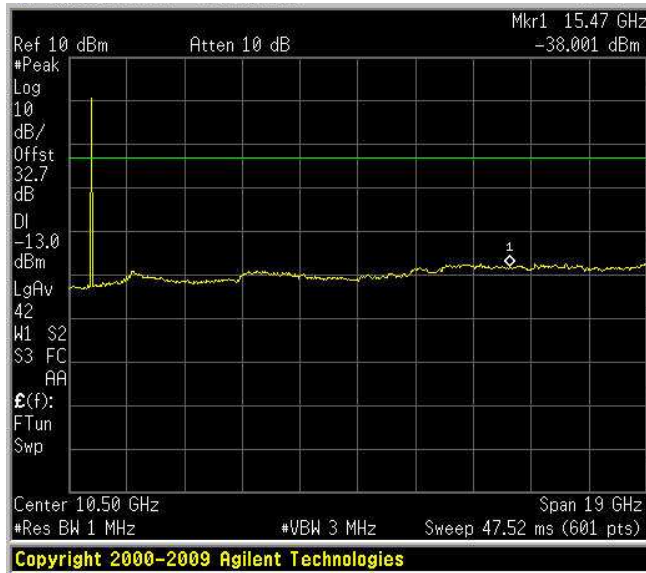
Spurious Emissions at Antenna Terminals
Uplink – 5 QPSK
1-20 GHz



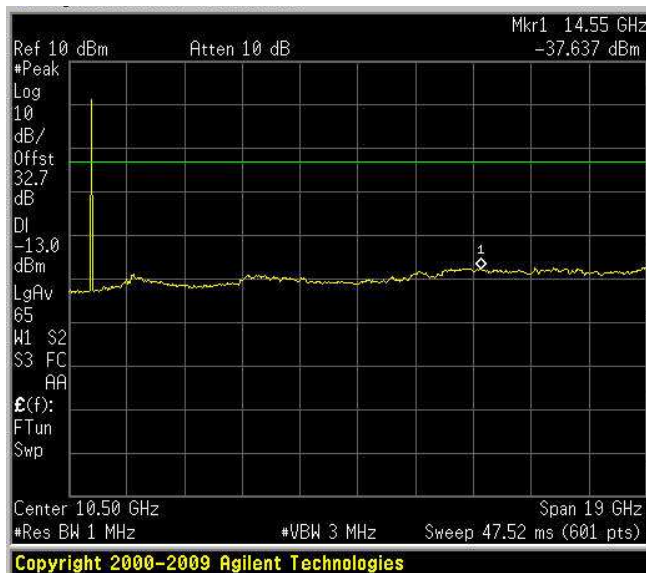


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Uplink – 10 QAM
1-20 GHz



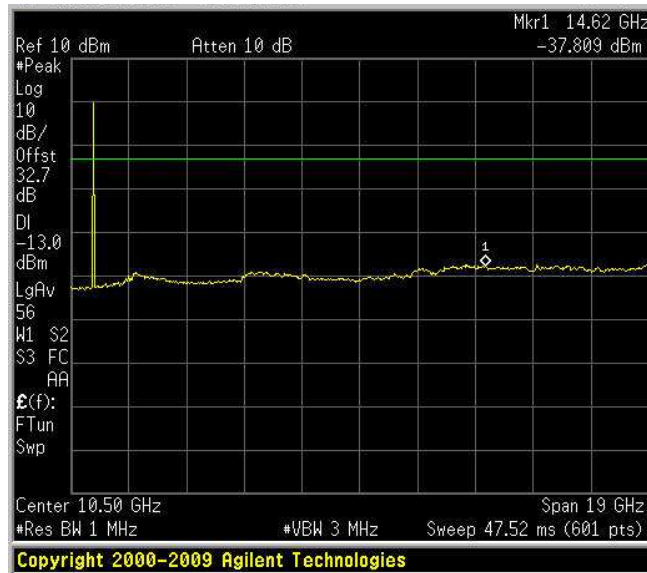
Spurious Emissions at Antenna Terminals
Uplink – 10 QPSK
1-20 GHz



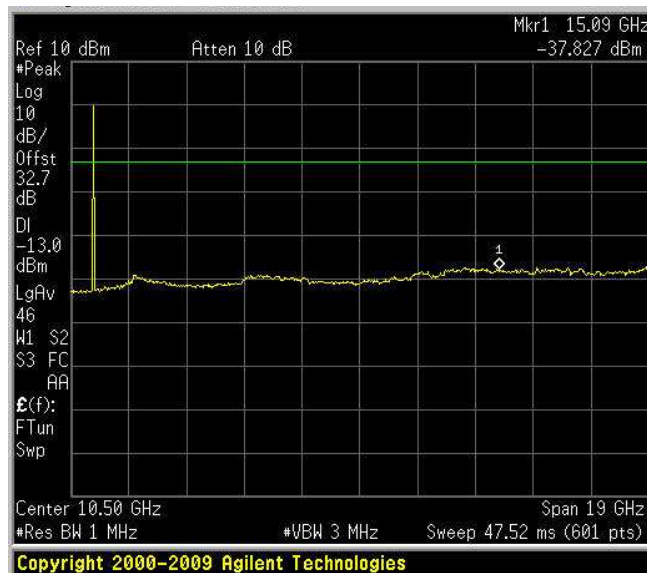


Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Uplink – 15 QAM
1-20 GHz



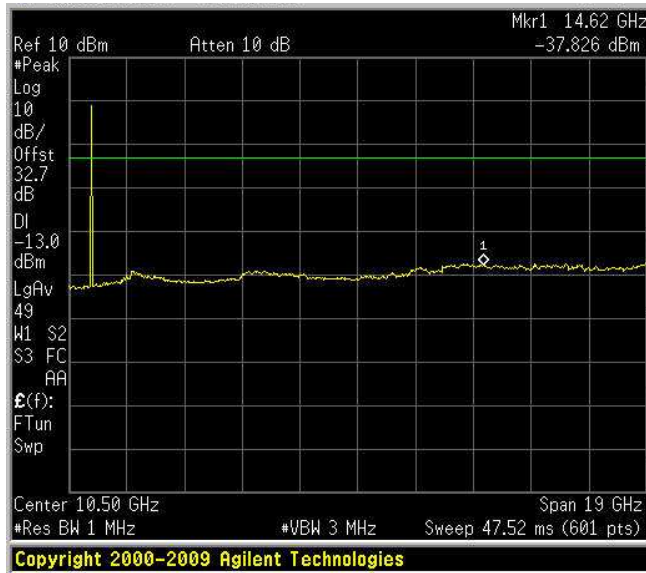
Spurious Emissions at Antenna Terminals
Uplink – 15 QPSK
1-20 GHz



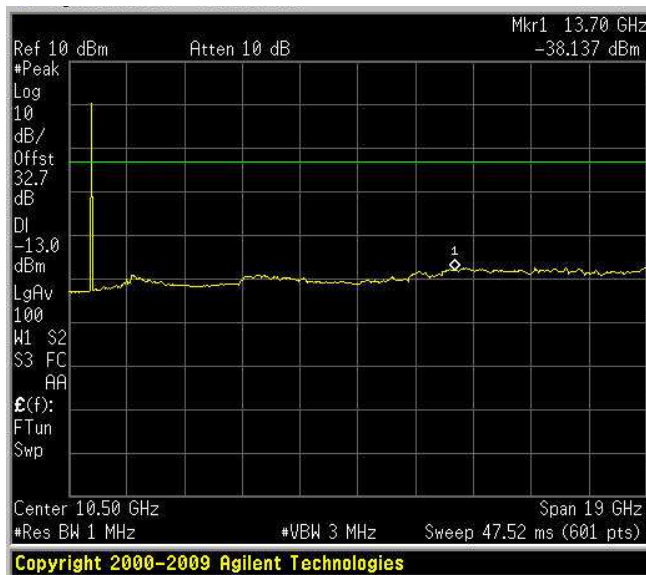



Section 8: Testing data		Product: TRU8A19AWV/AC-WS
Test name: Clause 27. 53(h) Spurious emissions		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Spurious Emissions at Antenna Terminals
Uplink – 20 QAM
1-20 GHz



Spurious Emissions at Antenna Terminals
Uplink – 20 QPSK
1-20 GHz



	Section 8: Testing data		Product: TRU8A19AWWV/AC-WS
	Test name: Clause 27. 53(h) Spurious emissions		
	Test date: 20-27 Sept 2010		Test engineer: G. Curioni
	Verdict: Pass		Supply input: 100-240 Vac
	Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27			

8.1 Clause 27.53 (g) Radiated spurious emissions

For operations in the 1710-1755 MHz and 2110-2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

(1) Compliance with the provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz 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.


(2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.

(3) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

Special notes

- The spectrum was searched from 30 MHz to the 10th harmonic.
- All measurements were performed using a peak detector.
- The measurements were performed at the distance of 3 m.
- RBW within 30–1000 MHz was 100 kHz and 1 MHz above 1 GHz. VBW was wider than RBW.

Result: PASS, See test report 131640-5TRFEMC.

	Section 8: Testing data		Product: TRU8A19AWWV/AC-WS	
	Test name: Clause 27. 53(h) Spurious emissions			
	Test date: 20-27 Sept 2010		Test engineer: G. Curioni	
	Verdict: Pass		Supply input: 100-240 Vac	
	Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %	
Specification: FCC Part 27				

8.2 Clause 27.53(f) Radiated spurious emissions within 1559–1610 MHz band

(f) For operations in the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to –70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and –80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.


Special notes

- The spectrum was searched from 1559–1610 MHz.
- All measurements were performed using a peak detector.
- The measurements were performed at the distance of 3 m.
- RBW was set to 1 MHz and VBW was wider than RBW.

Test data

Insert plots here				
Spurious emissions measurement results:				
Frequency (MHz)	Polarization. V/H	Field strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Low channel				
Mid channel				
High channel				
Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.				

NOT APPLICABLE: AWS band.

	Section 8: Testing data		Product: TRU8A19AWWV/AC-WS	
	Test name: Clause 27. 53(h) Spurious emissions			
	Test date: 20-27 Sept 2010		Test engineer: G. Curioni	
	Verdict: Pass		Supply input: 100-240 Vac	
	Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %	
	Specification: FCC Part 27			

8.3 Clause 27.54 Frequency stability

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

Special notes

- 26 dBc points including frequency tolerance were assessed to remain within assigned band.
- RBW was set to 300 Hz.

Test data

26 dBc points measurement:

[Insert plots here](#)


Frequency tolerance measurements:

Test conditions	Frequency (Hz)	Offset (Hz)
+50 °C, Nominal		
+40 °C, Nominal		
+30 °C, Nominal		
+20 °C, +15 %		
+20 °C, Nominal		Reference
+20 °C, -15 %		
+10 °C, Nominal		
0 °C, Nominal		
-10 °C, Nominal		
-20 °C, Nominal		
-30 °C, Nominal		

Operating range including frequency drift measurements:

Assigned frequency (MHz)	Measured 26 dBc (MHz)	Frequency drift, (Hz)		25 dBc including drift (MHz)
		Negative	Positive	

NOT APPLICABLE; Frequency Stability testing was not performed since the E.U.T. does not contain modulation circuitry

	Section 8: Testing data		Product TRU8A19AWWV/AC-WS
	Test name: Clause 2.1049 Occupied bandwidth		
	Test date: 20-27 Sept 2010		Test engineer: G. Curioni
	Verdict: Pass		Supply input: 100-240 Vac
	Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27			

8.7 Clause 2.1049 Occupied bandwidth

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.

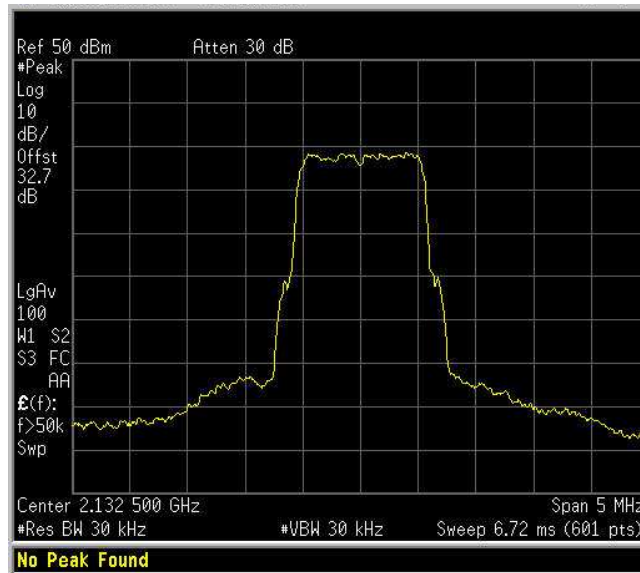
Special notes

- 26 dBc points provided in terms of attenuation below unmodulated carrier.
- RBW was set to 1 % of emissions bandwidth.

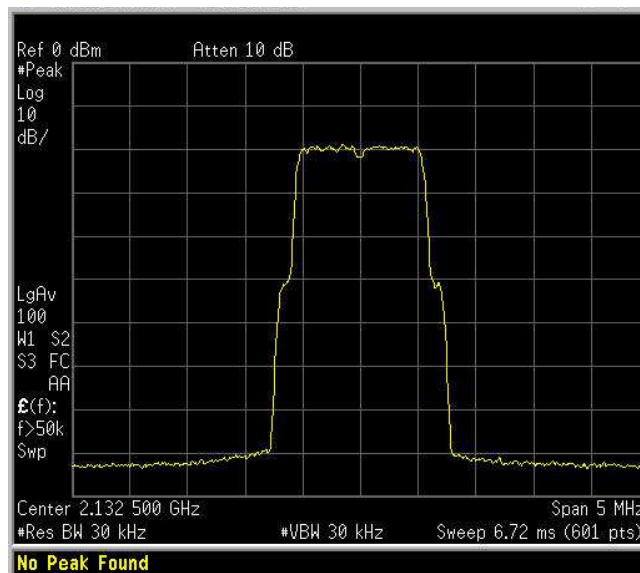


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 1.4 QAM
OUTPUT



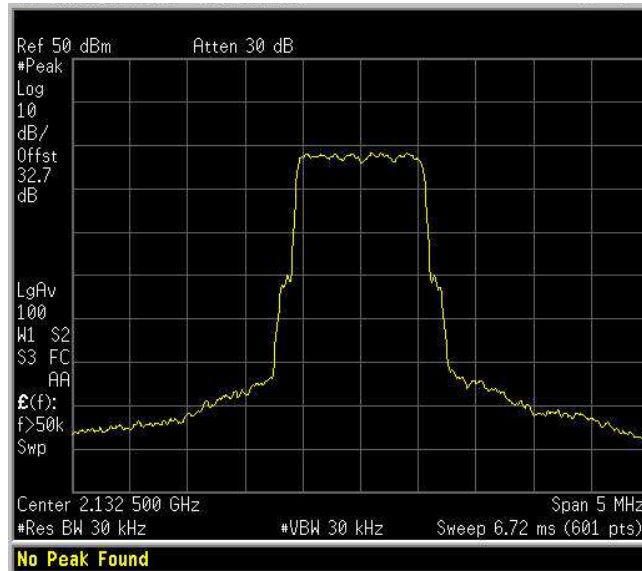
Occupied Bandwidth
Downlink – 1.4 QAM
INPUT



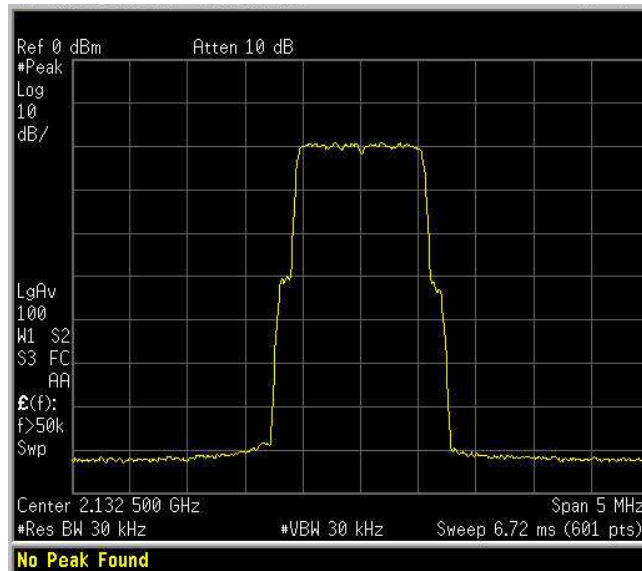


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 1.4 QPSK
OUTPUT



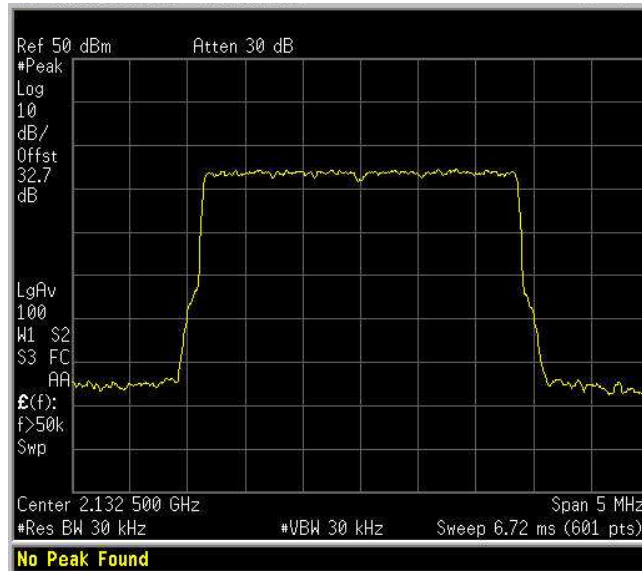
Occupied Bandwidth
Downlink – 1.4 QPSK
INPUT



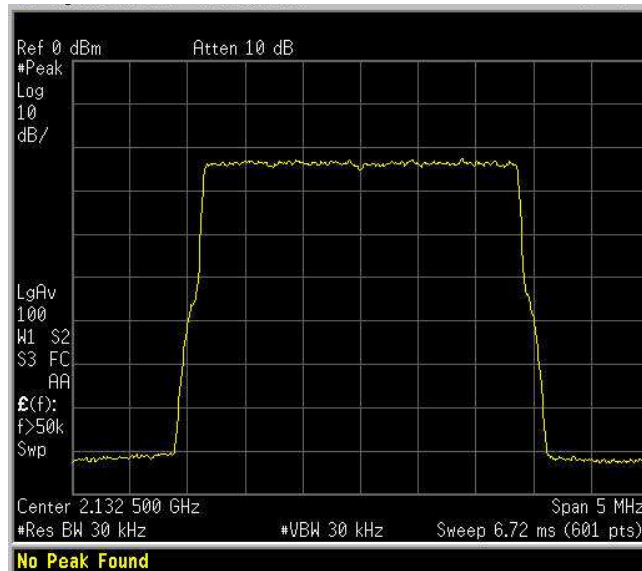


Section 8: Testing data		Product TRU8A19AWVWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 3 QAM
OUTPUT



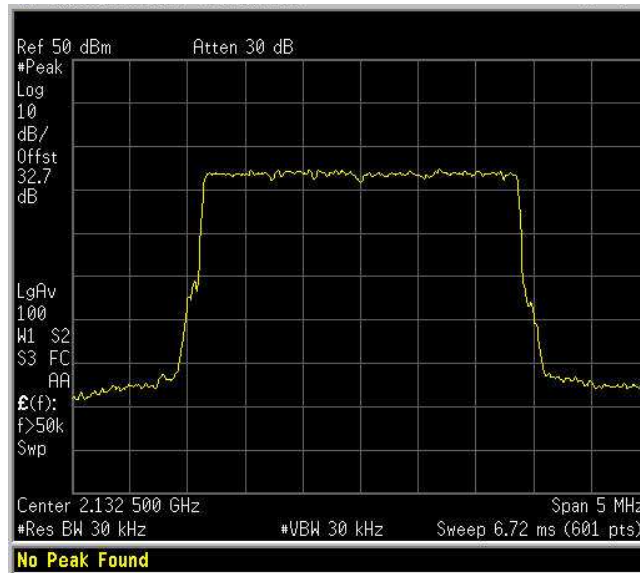
Occupied Bandwidth
Downlink – 3 QAM
INPUT



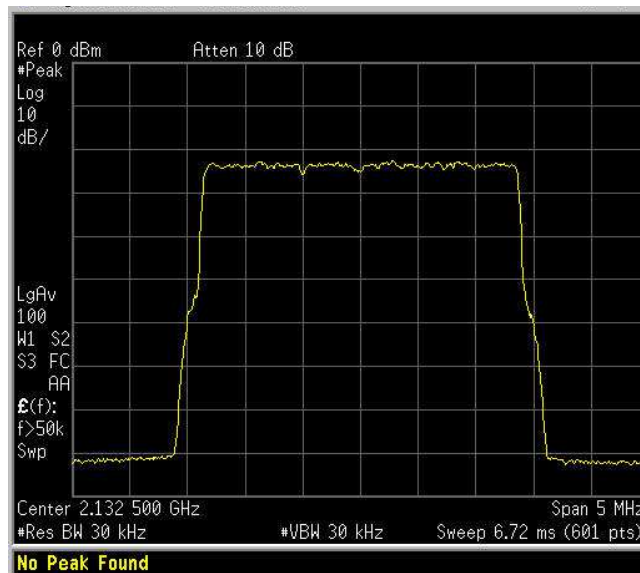


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 3 QPSK
OUTPUT



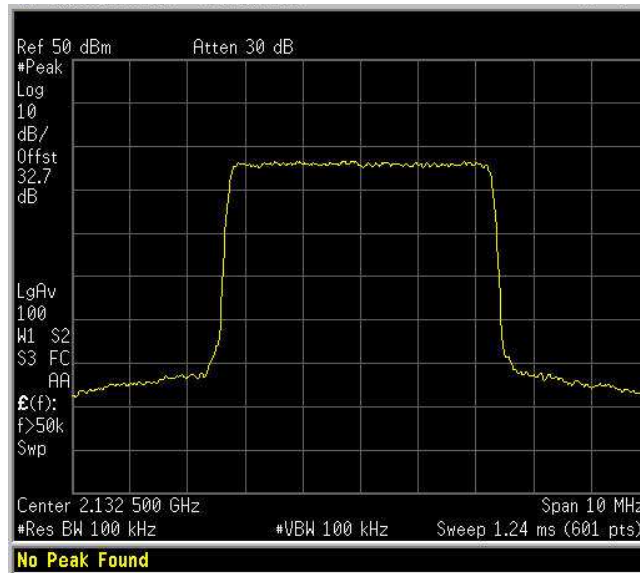
Occupied Bandwidth
Downlink – 3 QPSK
INPUT



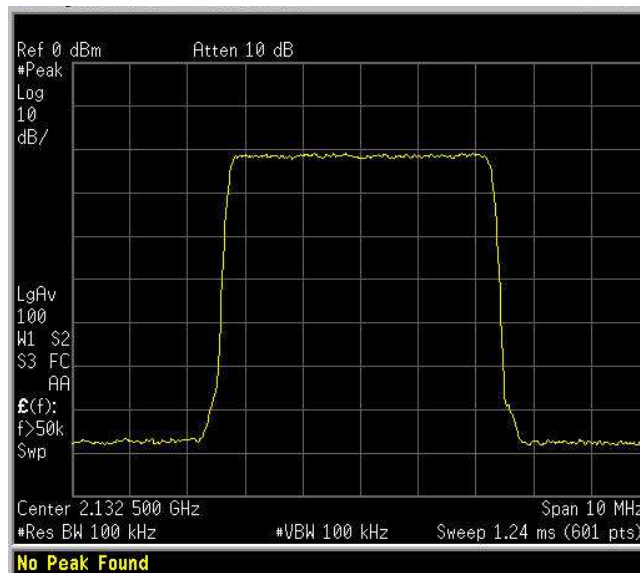


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 5 QAM
OUTPUT



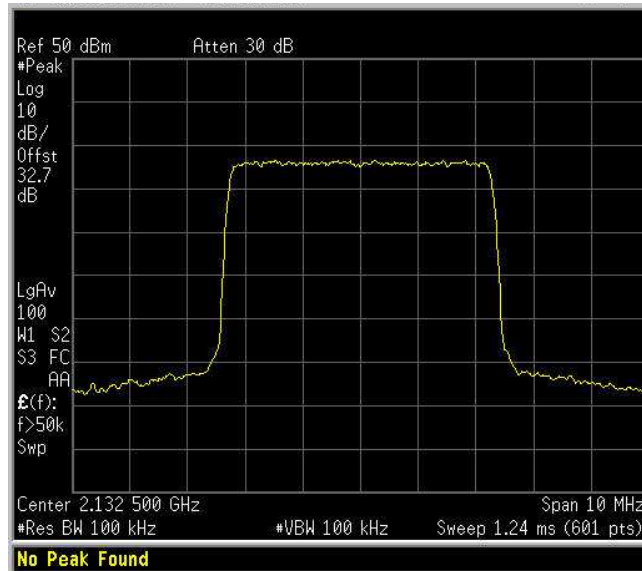
Occupied Bandwidth
Downlink – 5 QAM
INPUT



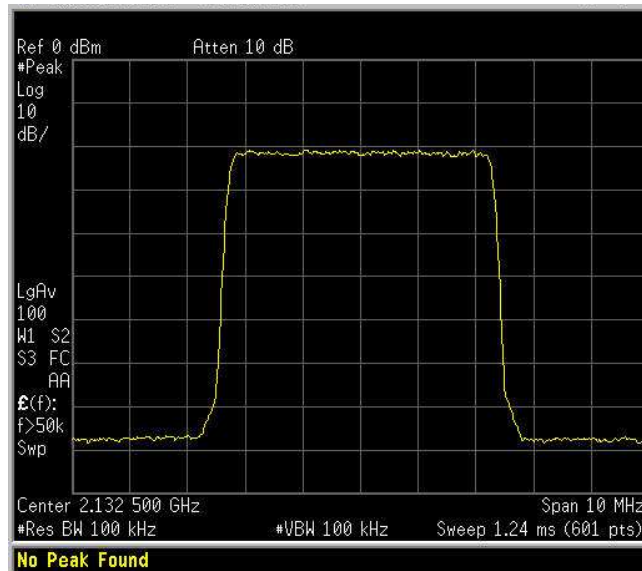


Section 8: Testing data		Product TRU8A19AWVWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 5 QPSK
OUTPUT



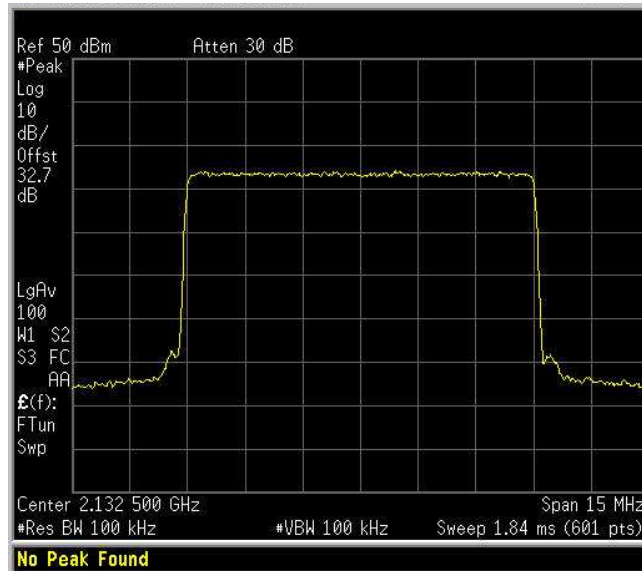
Occupied Bandwidth
Downlink – 5 QPSK
INPUT



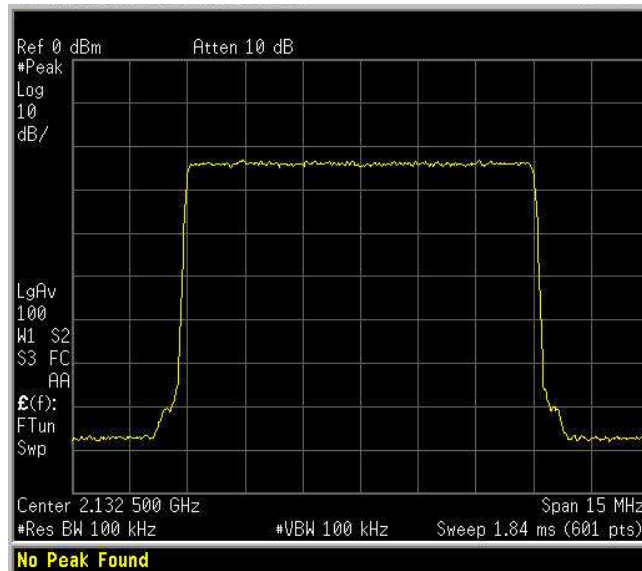


Section 8: Testing data		Product TRU8A19AWVWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 10 QAM
OUTPUT



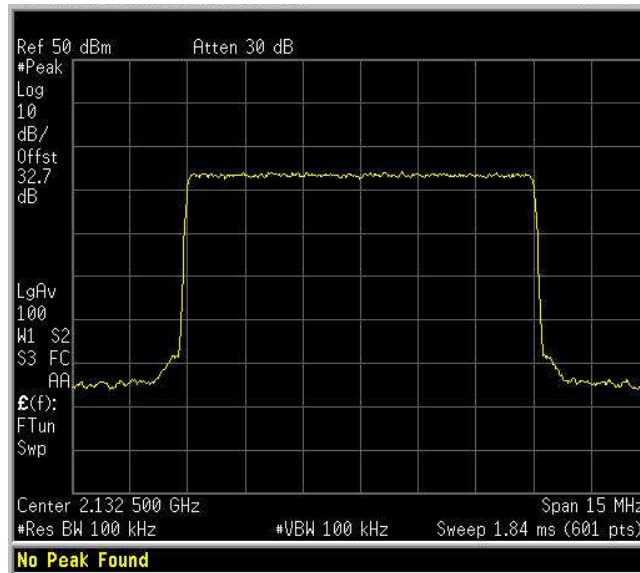
Occupied Bandwidth
Downlink – 10 QAM
INPUT



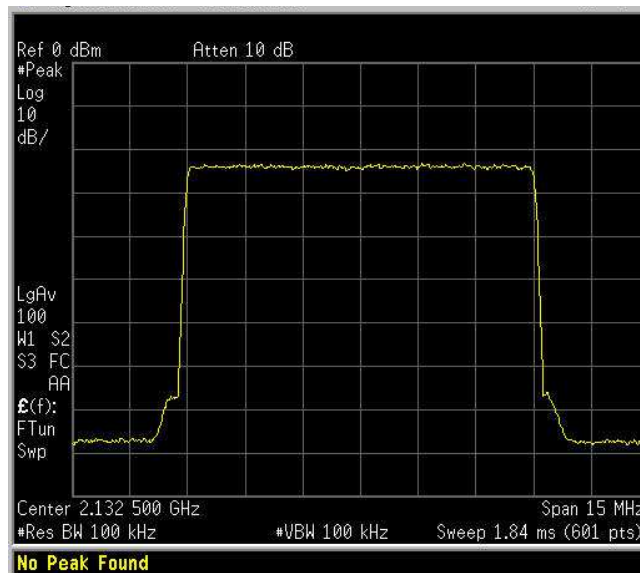


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 10 QPSK
OUTPUT



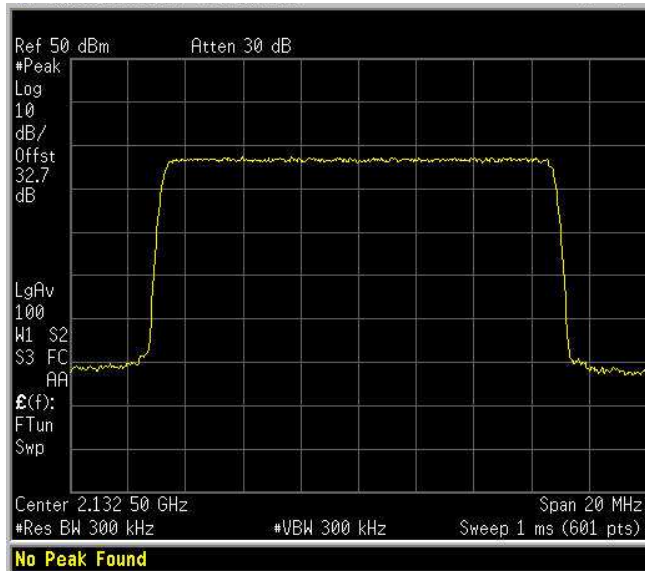
Occupied Bandwidth
Downlink – 10 QPSK
INPUT





Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 15 QAM
OUTPUT



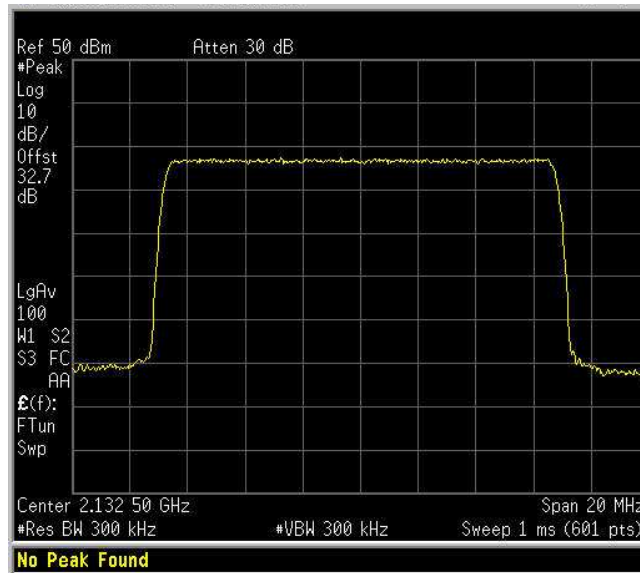
Occupied Bandwidth
Downlink – 15 QAM
INPUT



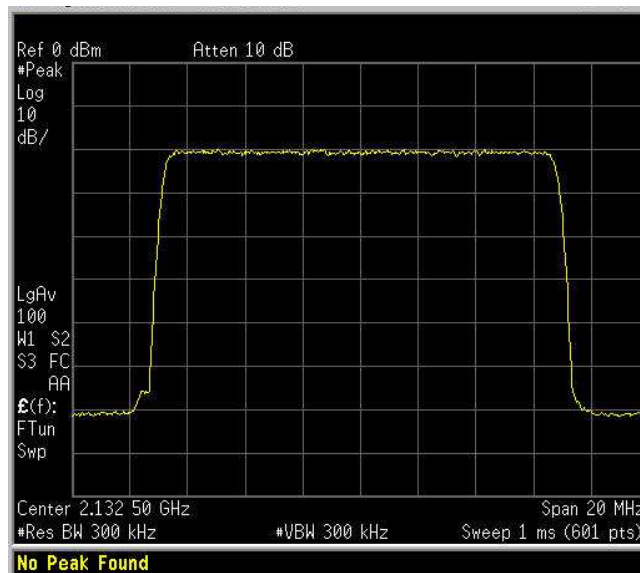


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 15 QPSK
OUTPUT



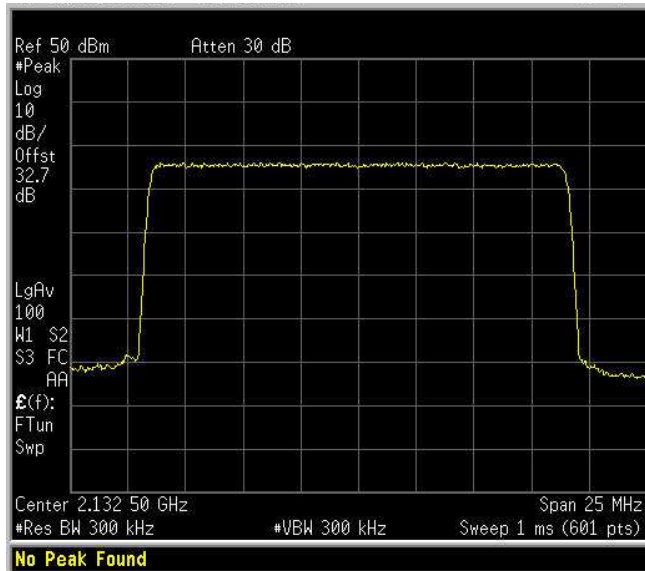
Occupied Bandwidth
Downlink – 15 QPSK
INPUT



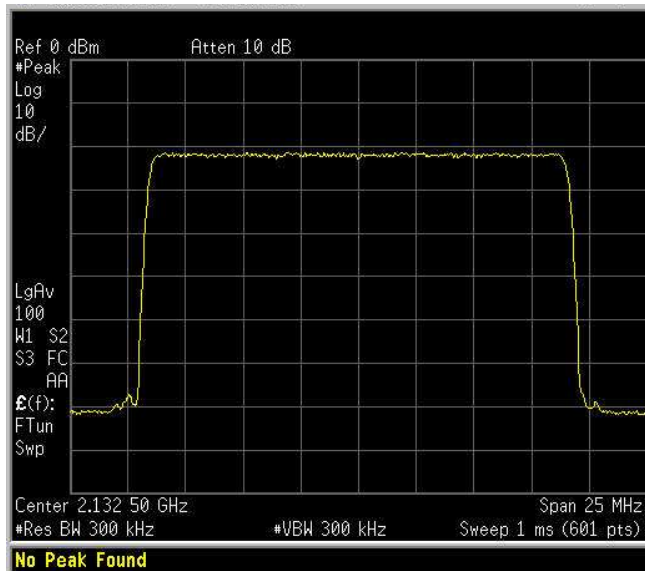


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 20 QAM
OUTPUT



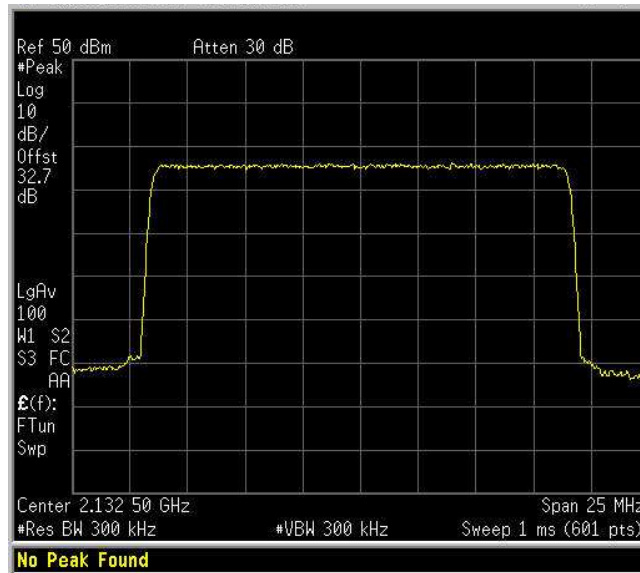
Occupied Bandwidth
Downlink – 20 QAM
INPUT



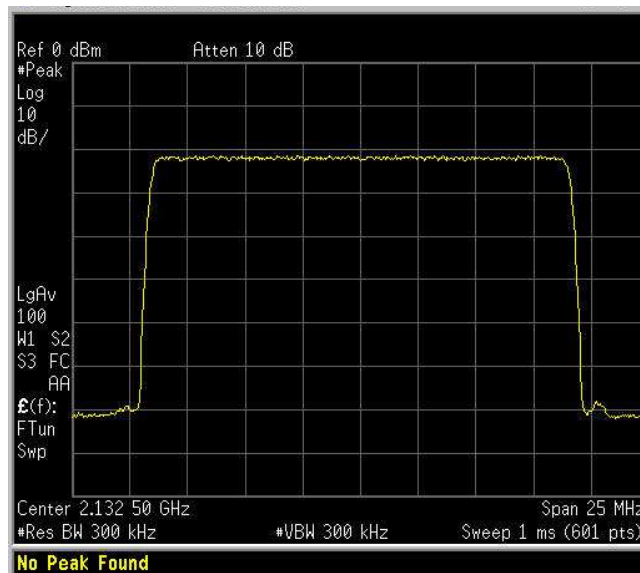


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Downlink – 20 QPSK
OUTPUT



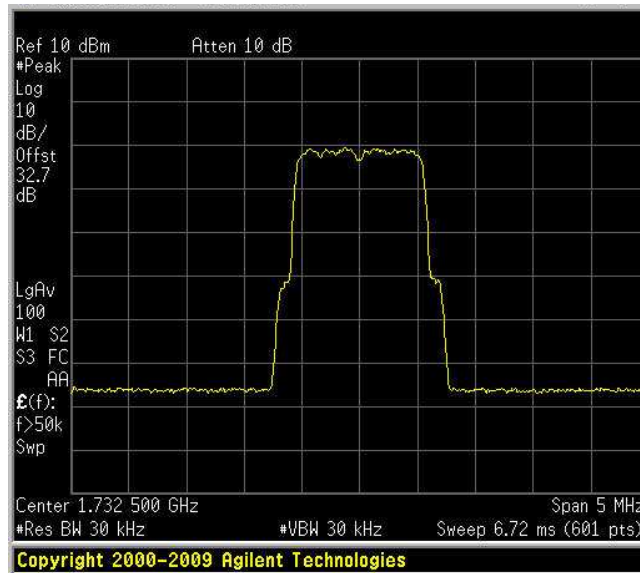
Occupied Bandwidth
Downlink – 20 QPSK
INPUT



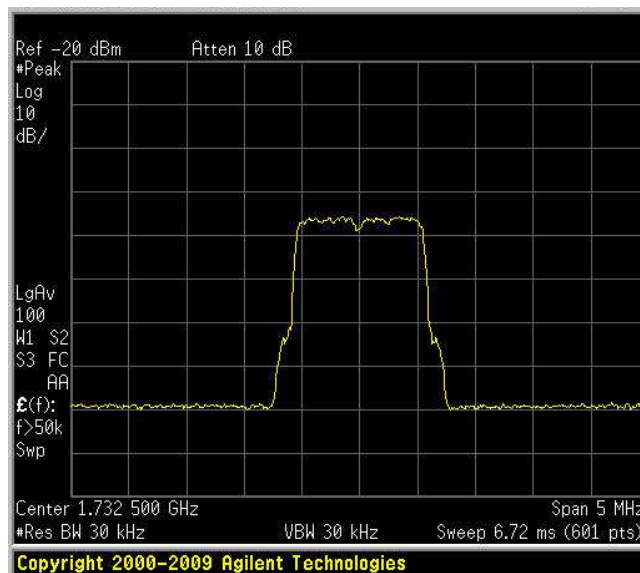


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 1,4 QAM
OUTPUT



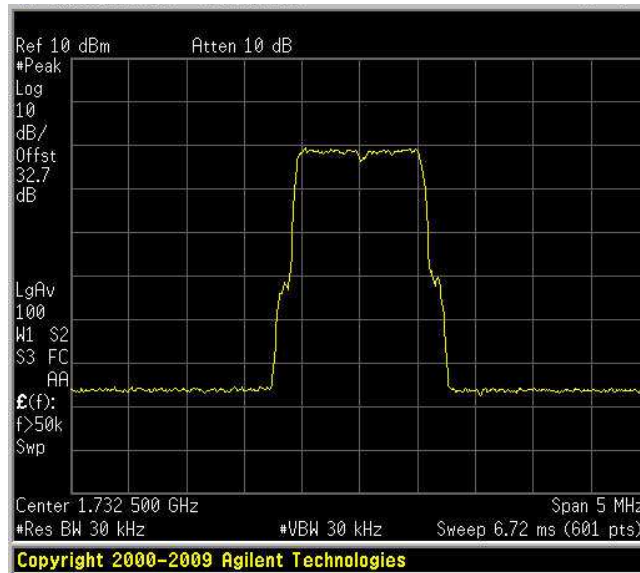
Occupied Bandwidth
Uplink – 1,4 QAM
INPUT



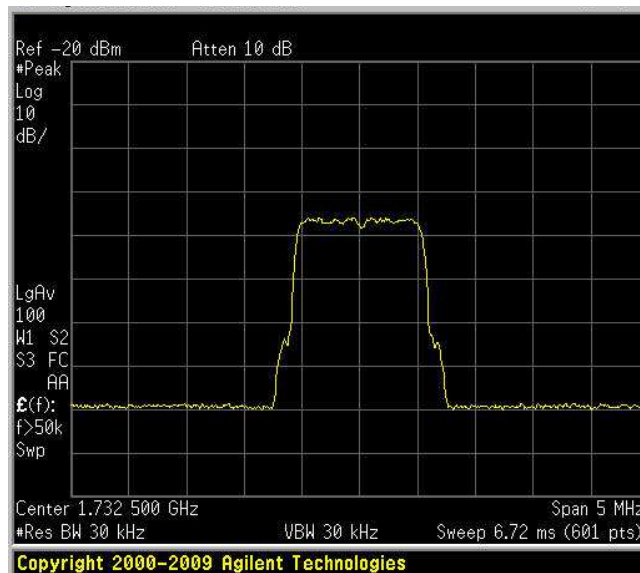


Section 8: Testing data		Product TRU8A19AWVWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 1,4 QPSK
OUTPUT



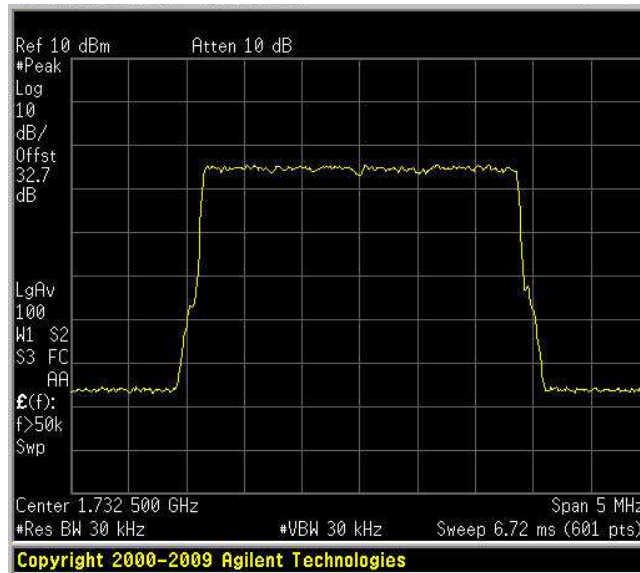
Occupied Bandwidth
Uplink – 1,4 QPSK
INPUT



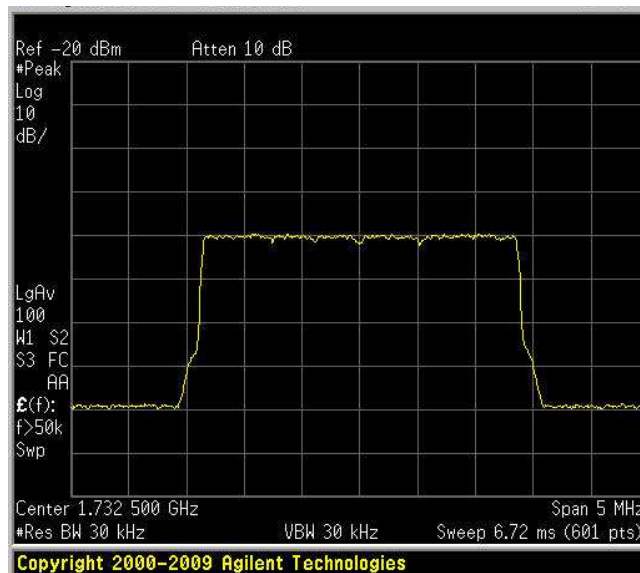


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 3 QAM
OUTPUT



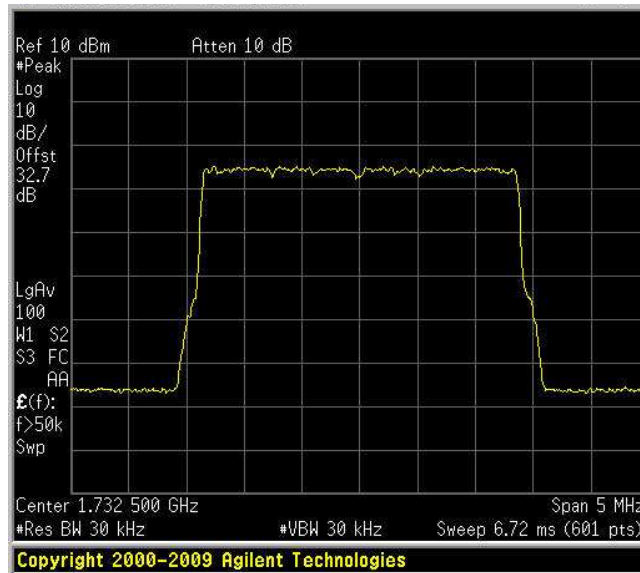
Occupied Bandwidth
Uplink – 3 QAM
INPUT



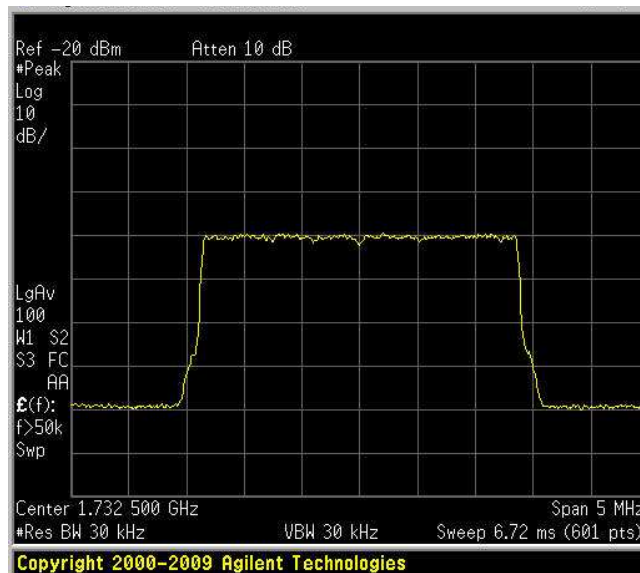


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 3 QPSK
OUTPUT



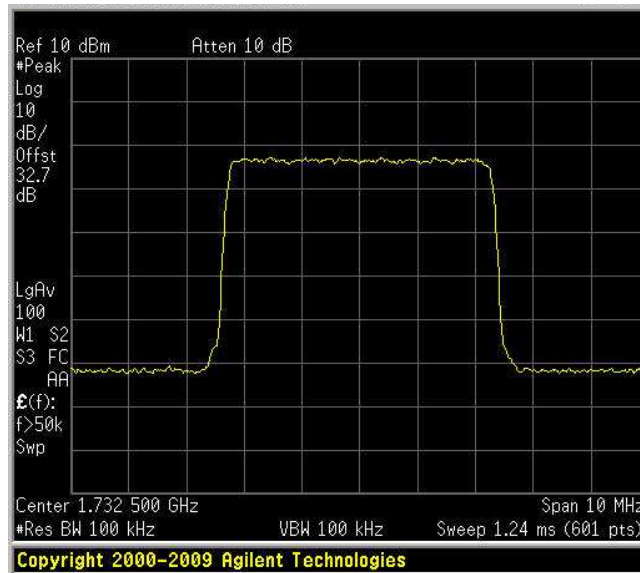
Occupied Bandwidth
Uplink – 3 QPSK
INPUT



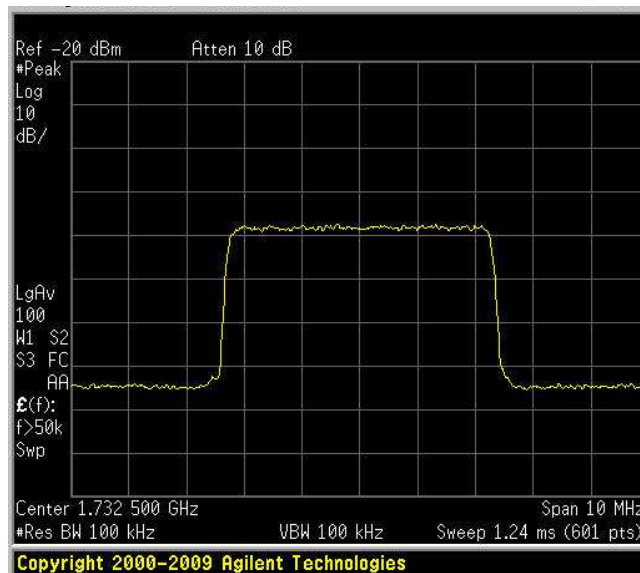


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 5 QAM
OUTPUT



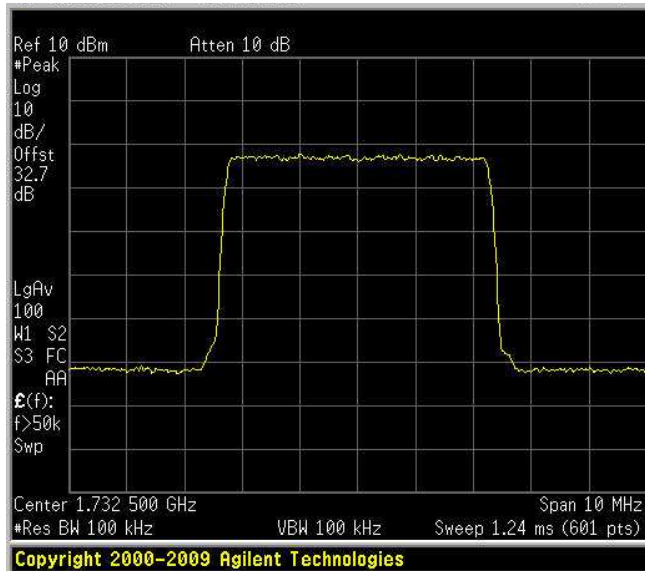
Occupied Bandwidth
Uplink – 5 QAM
INPUT



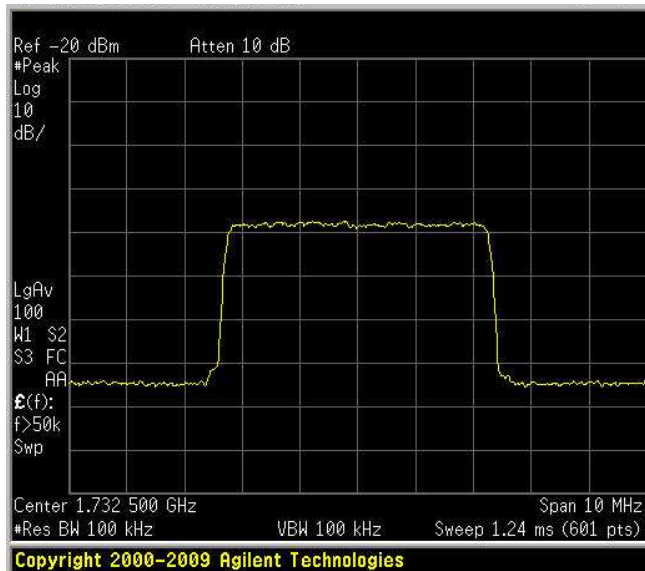


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 5 QPSK
OUTPUT



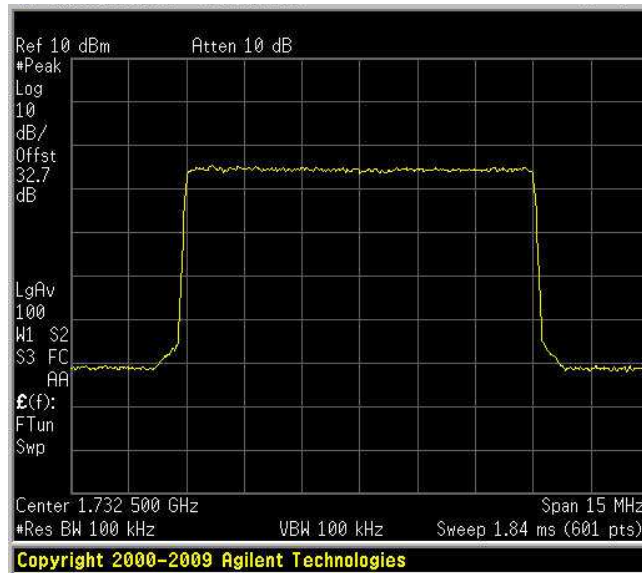
Occupied Bandwidth
Uplink – 5 QPSK
INPUT



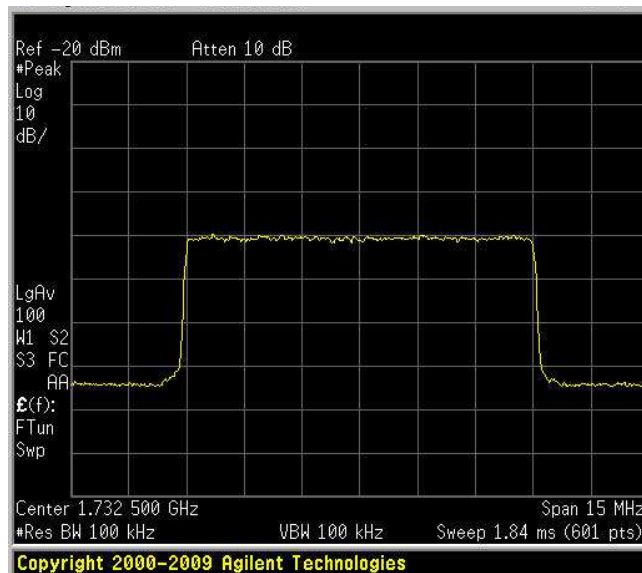


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 10 QAM
OUTPUT



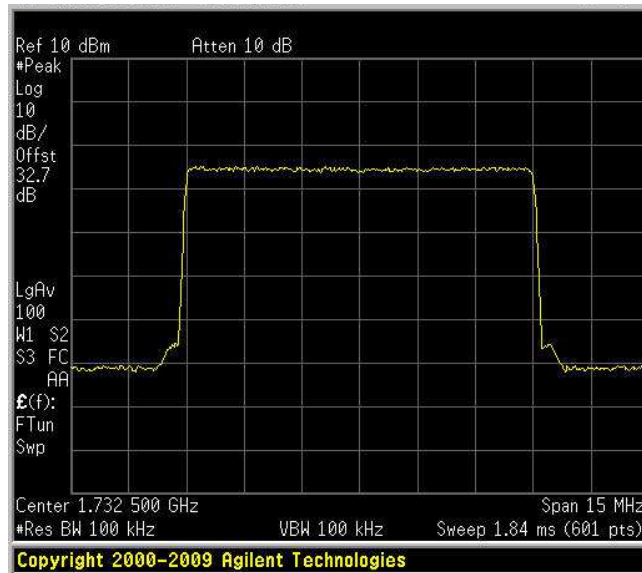
Occupied Bandwidth
Uplink – 10 QAM
INPUT



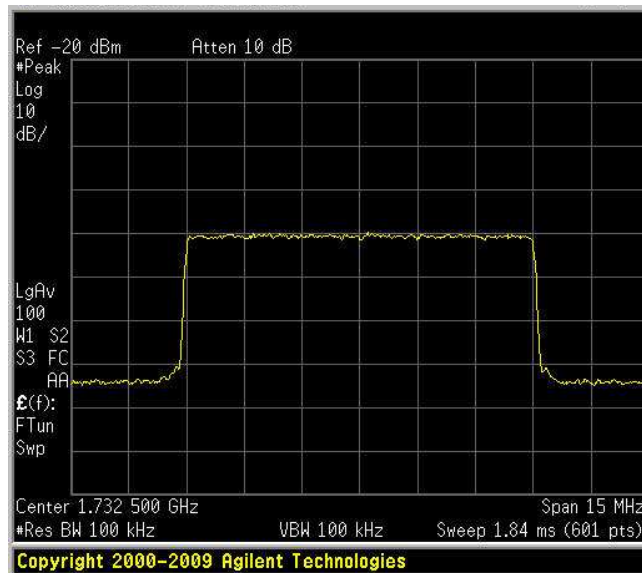


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 10 QPSK
OUTPUT



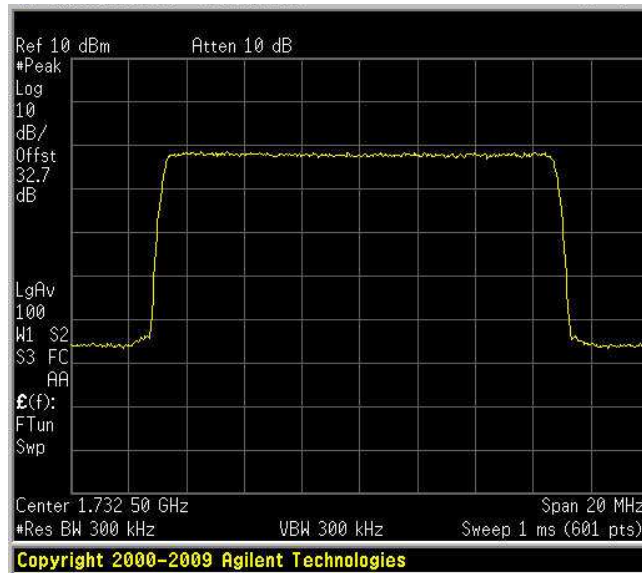
Occupied Bandwidth
Uplink – 10 QPSK
INPUT



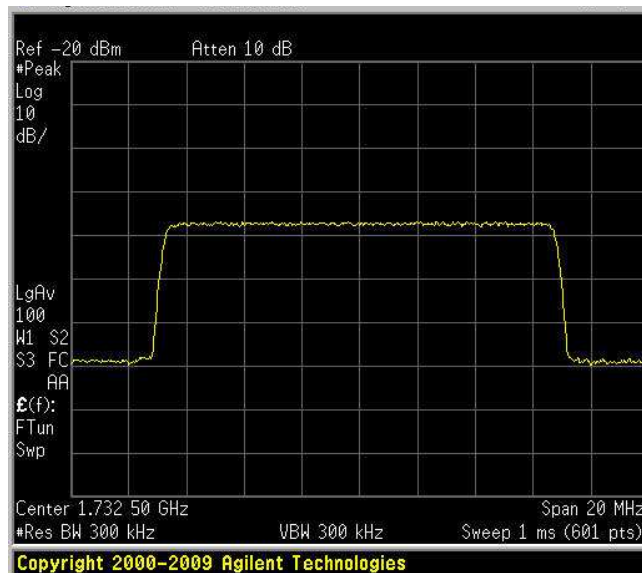


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 15 QAM
OUTPUT



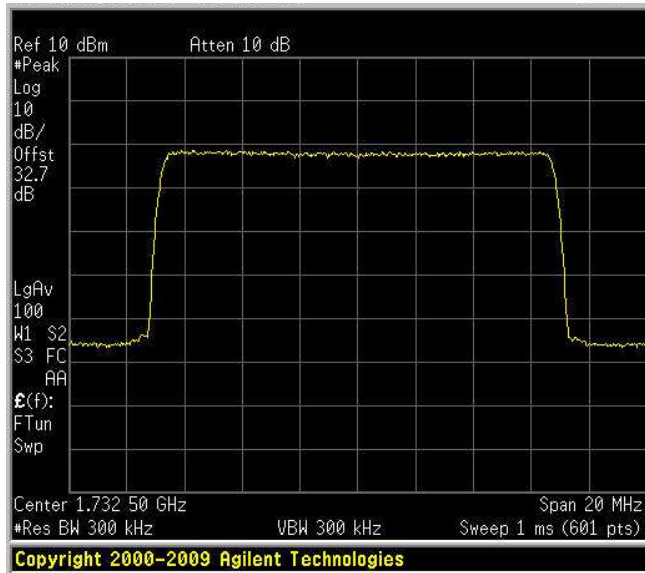
Occupied Bandwidth
Uplink – 15 QAM
INPUT



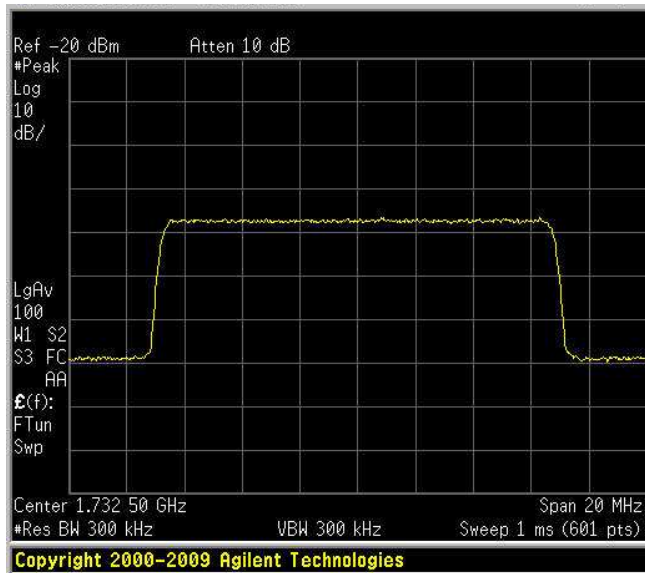


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 15 QPSK
OUTPUT



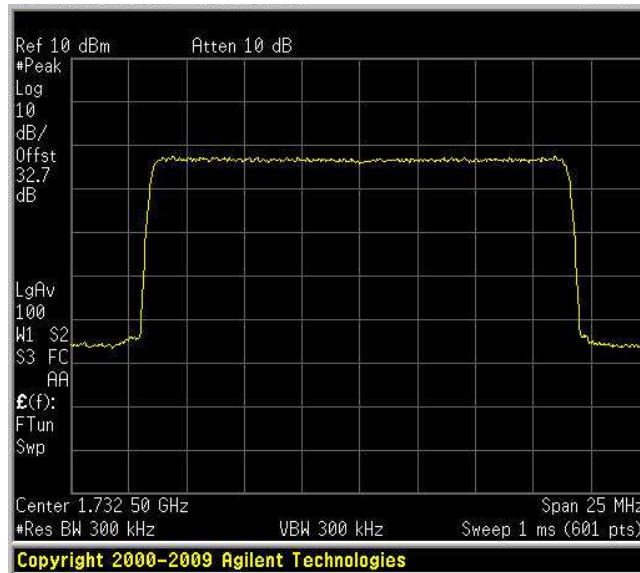
Occupied Bandwidth
Uplink – 15 QPSK
INPUT



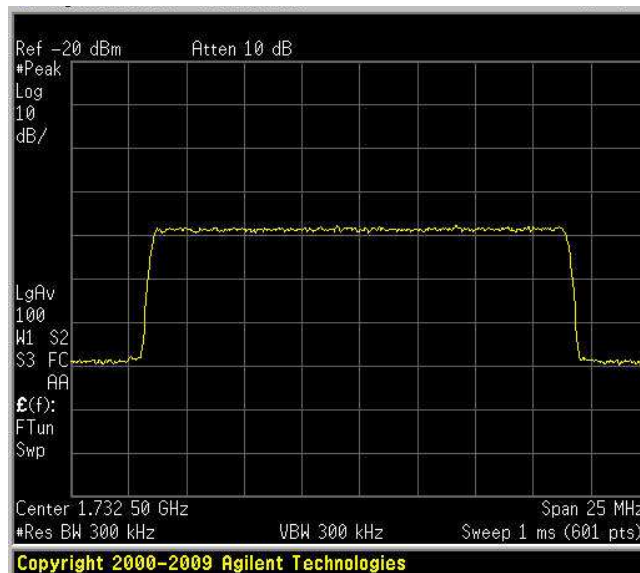


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 20 QAM
OUTPUT



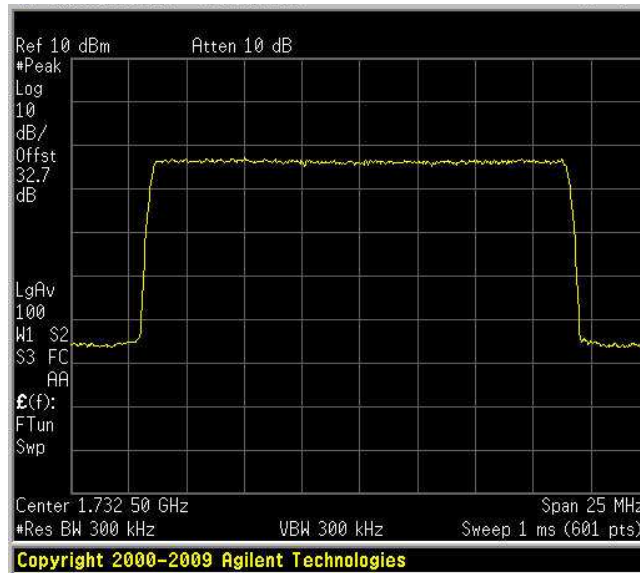
Occupied Bandwidth
Uplink – 20 QAM
INPUT



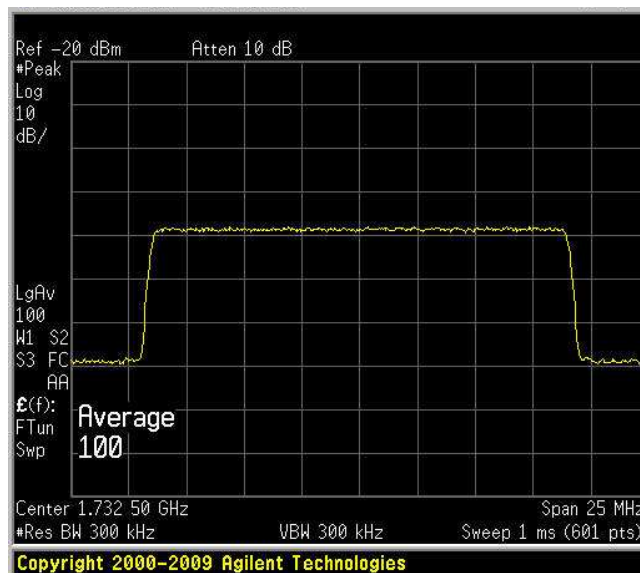


Section 8: Testing data		Product TRU8A19AWWV/AC-WS
Test name: Clause 2.1049 Occupied bandwidth		
Test date: 20-27 Sept 2010		Test engineer: G. Curioni
Verdict: Pass		Supply input: 100-240 Vac
Temperature: 25 °C	Air pressure: 860-1060 hPa	Relative humidity: 50 %
Specification: FCC Part 27		

Occupied Bandwidth
Uplink – 20 QPSK
OUTPUT



Occupied Bandwidth
Uplink – 20 QPSK
INPUT





Section 9: Filter Frequency Response

Product: TRU8A19AWWV/AC-WS

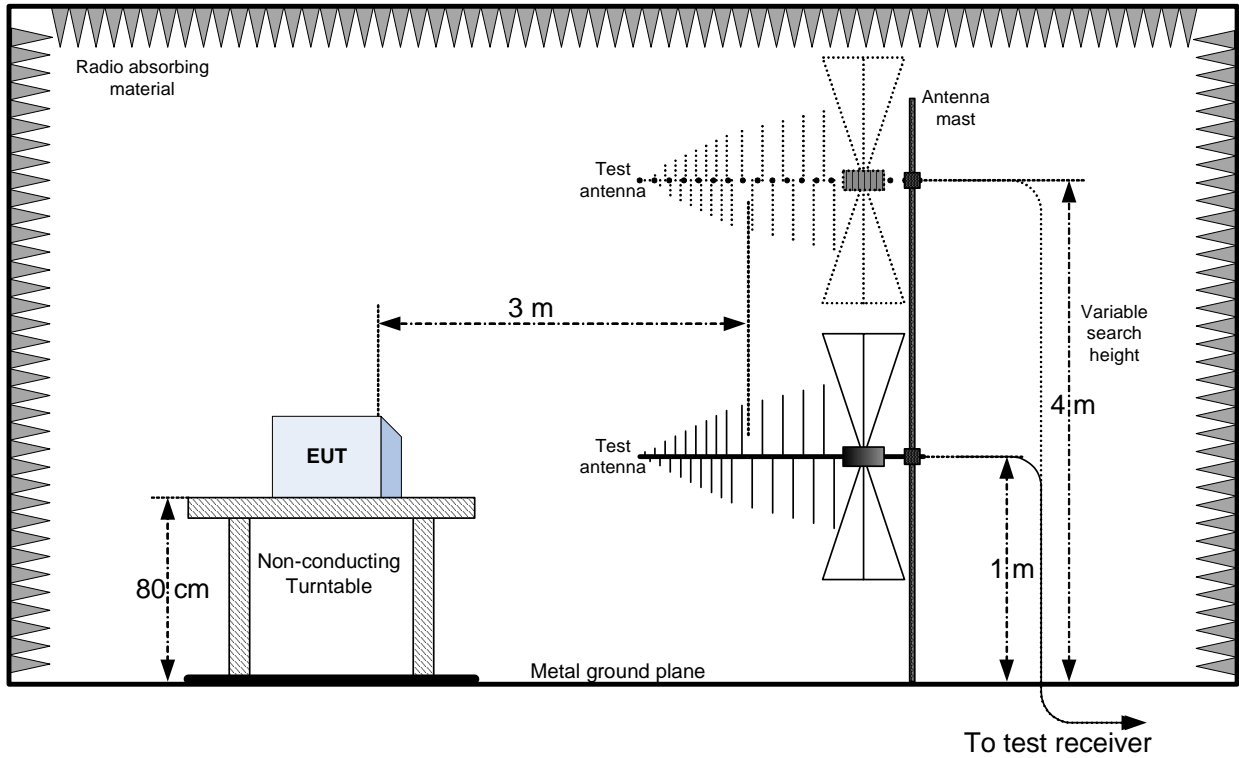
Section 9: Filter Frequency Response

Test date: 2009-09-28, t.r 131640-5TRFEMC.

Test results: [Pass, see previous test report 131640-5TRFEMC](#)

Section 10: Block diagrams of test set-ups

Radiated emissions set-up



Section 11: EUT photos

EUT
SETUP



Photo EUT

REMOTE



MASTER



