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FCC Part 15, Subpart C, Section 15.247
Test Report

On

Set Top Box
FCC ID: ACQ-XI6

Customer Name:	Arris
Customer P.O:	AR1123756
Date of Report Revision:	March 29, 2018
Test Report No:	R-6288N-7, Rev. A
Test Start Date:	January 3, 2018
Test Finish Date:	February 8, 2018
Test Technician:	M. Seamans
Report Revision Approved By:	T. Hannemann
Report Revision Prepared By:	J. Ramsey

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Technical Information

Report Number:	R-6288N-7, Rev. A
Customer:	Arris
Address:	101 Tournament Drive Horsham, PA 19044
Manufacturer:	Arris
Manufacturer Address:	101 Tournament Drive Horsham, PA 19044
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Numbers:	M11742TK0116 (Radiated) M11742TK0102 (Conducted)
FCC ID:	ACQ-XI6
Type:	Digital Transmission - Direct Sequence Spread Spectrum Transmitter
Power Requirements:	5 VDC via 115 VAC, 60 Hz AC/DC Power Adapter
Power Supply:	AC Adapter, ARRIS, Model: NBC15B050300VU
Frequency of Operation:	CCK + HT20 2412.0 MHz to 2462.0 MHz; HT40 2432.0 to 2442.0 to 2442.0 MHz
Equipment Class:	DTS
Antenna Type:	2 Patch Antennas, Peak Gains, 2.7 dBi and 4.4 dBi
Equipment Use:	Television Set-Top Box

Test Specification:
FCC Rules and Regulations Part 15, Subpart C, Section 15.247

Test Procedure:
ANSI C63.4:2014
ANSI C63.10:2013
FCC 558074 D01 DTS Meas Guidance V04, April 5, 2017

Test Facility:
Retlif Testing Laboratories
101 New Boston Road
Goffstown, NH 03045

FCC Designation Number: US5327

Tests Performed

FCC Part 15, Subpart C	Test Method
15.247(a)(2)	Occupied Bandwidth (6dB Bandwidth)
15.247(b)(3)	Power Output
15.247(c)	Conducted Band Edge/Out of Band Emissions
15.247(d)	Antenna Port, Conducted Emissions
15.247(e)	Antenna Port, Power Density
15.247(d) / 15.209(a)	Spurious Radiated Emissions
15.207(b)	Conducted Emissions, Power Leads

EUT Operation:

- For CCK and HT20 modulations, the EUT was transmitting a Wifi signal at 2.412 GHz (Low Band), 2.442 GHz (Mid Band) and 2.462 GHz (High Band). For HT40 modulation the EUT was transmitting a Wifi signal at 2.432 GHz (Low Band) and 2.442 GHz (High Band).
- For AC Line Conducted Emissions and Spurious Radiated Emissions the EUT was transmitting a modulated signal with all transmitters operating simultaneously.

The EUT was evaluated for OFDM, DSSS modulations at all data rates; the worst case test results are contained in this report.

EUT Description:
The EUT is a Set Top Box which is used for streaming content to televisions for home entertainment purposes. The EUT contains the following transmitters: RF4CE, Bluetooth Classic, Bluetooth Low Energy, 2.4 GHz Wifi and 5 GHz Wifi. The EUT is constructed of plastic with the following connections: DC Power, Ethernet, HDMI Input and HDMI Output.

All equipment that was utilized to achieve the EUT operating state is specified in the table below:

Support Equipment

Description	Manufacturer	Part Number	Model Number
Test PC	Dell	D400	Latitude
USB to Serial Adapter	SIIG	N/A	N/A

Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Todd Hannemann
EMC Test Engineer
iNARTE Certified Technician ATL-0255-T

Dean F. Landers
EMC Test Engineer
NVLAP Approved Signatory

Non-Warranty Provision
The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement
This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document:

Revision	Date	Pages Affected
-	March 15, 2018	Original Release
A	March 29, 2018	Global Changes: • Document changed from R-6288N-7 to R-6288N-7, Rev. A • Revised test data • Corrected Frequency of operation 12: • Updated Conducted / Band Edge equipment list

Requirements and Test Results

Requirement:
FCC Section 15.247(a)(2)
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands. The minimum 6 dB bandwidths shall be at least 500 kHz.

- **Results**:
  The minimum 6 dB bandwidth measured 8.116 MHz which complies with the requirement that the Bandwidth be no less than 500 kHz.

Requirement:
FCC Sections 15.247(b)(3)
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antenna and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antenna and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

- **Results**:
  The maximum measured peak conducted output power was summed on both CH0 and CH1 was 407.141 mW. The maximum directional antenna gain of the antennas is 4.8 dBi. The device was found to meet the power output requirements of 15.247 (b)(3) including de facto EIRP.

Requirements and Test Results (con't)

Requirement:
FCC Section 15.247(d):
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) must also comply with the radiated emissions limits specified in Section 15.209(a) (see Section 15.205(c)).

- **Results**:
  In any 100 kHz bandwidth outside the frequency band in which the Spread spectrum intentional radiator was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below that in the 100 kHz bandwidth within the band that contained the highest level of the desired power. All emissions, which fell within the restricted bands specified in 15.205(a), were measured and found to be in compliance with the limits specified in 15.209(a).

Requirements and Test Results (con't)

Requirement:
FCC Section 15.247(e):
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

- **Results**:
  The power spectral density conducted from the intentional radiator to the antenna was not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density was determined in accordance with Section 15.247(b)(3), herein.

Requirement:
FCC Section 15.209(a) - Radiated Emission Limits, General Requirements
Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 1.

Table 1 - Radiated Emission Limits

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

- **Results**:
  The field strength of spurious radiated emissions did not exceed the limits specified in Table 1.

Requirements and Test Results (con't)

Requirement:
FCC Section 15.207(a) - Conducted Limits
For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 2, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Table 2 - Conducted Emission Limits

Frequency of Emission (MHz)	**Conducted Limit (dBµV)**	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
*Decreases due to logarithm of the frequency		

- **Results**:
  The conducted emissions observed did not exceed the limits specified in Table 2.

Requirements and Test Results (con't)

Field Strength Calculation/Conversion:

The maximized field strength of the emission was obtained as follows:

$C_R = M_R + C_F$

Where:
C_R = Corrected Reading in dBµV/m
M_R = Uncorrected Meter Reading in dBµV
C_F = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

M_R = 15.35 dBµV
C_F = 16.85 dB
C_R = 15.35 dBuV + 16.85 = 32.2 dBµV/m

dBµV/M is converted to uV/M for comparison to the specified limit using the formula:

invLog dBµV/M/20

32.2 dBuV/m = 40.74 uV/m

RF Power Conversion:

Power readings in dBm may be converted to mW using the formula:

InvLog dBm/10

Example: 20dBm = 100mW

Requirements and Test Results (con't)

FCC Section 15.247 (i)
RF Exposure Limits

Spread Spectrum Transmitters operating under 15.247 must be operated in a manner that ensures the public is not exposed to RF energy levels in access of the commission's guidelines. Based on the transmitter power and maximum antenna gain (see calculation below) the minimum separation distance was calculated to determine the distance for acceptable MPE power density levels to meet both the Occupational/Controlled Exposure and the General Population/Uncontrolled Exposure requirements of FCC Part 1.1310. The calculation below uses the more stringent General Population MPE Limits.

$$S = \frac{PG}{4\prod Dsq}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For the Frequency of 2400 MHz S = 1 mW/cmsq

Power = Max Power Input to Antenna = 407.14mW

Gain = Max Power Gain of Antenna = 4.8 dBi = 3.02 numeric

$$1 \text{ mW/cmsq} = \frac{407.14 \times 3.02}{4 \times (3.14) \times D^2} = \frac{1229.56}{12.56 \times D^2}$$

$$D^2 = \frac{1229.56}{12.56 \text{ X } 1}$$

$$D = \sqrt{97.9} = 9.89 \text{ cm}$$

NOTE: The maximum measured RF power output and maximum antenna gain was utilized in the RF Exposure calculation.

Equipment List

FCC Section 15.247(a)(2)
Occupied Bandwidth (6 dB Bandwidth)

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/17/2017	10/31/2018
5134	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	12/6/2017	12/31/2018

FCC Section 15.247(b)(3)
Power Output

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
R493	AGILENT / HP	ANALYZER, PEAK POWER	50 MHz - 40 GHz	8990B	2/5/2018	2/28/2019
R493A	AGILENT / HP	SENSOR, WIDEBAND PEAK POWER	50 MHz - 18 GHz	N1923A	2/5/2018	2/28/2019

FCC Section 15.247(d)
Antenna Port, Conducted Emissions / Band Edge

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/17/2017	10/31/2018
5134	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	12/6/2017	12/31/2018
R495	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 50 GHz	E4448A	3/20/2018	3/20/2019

FCC Section 15.247(e)
Antenna Port, Power Density

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/17/2017	10/31/2018
5134	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	12/6/2017	12/31/2018

FCC Section 15.247(d) \ 15.209(a)
Spurious Radiated Emissions, 30 MHz to 40 GHz

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
012	ETS / EMCO	ANTENNA, ACTIVE LOOP	10 kHz - 30 MHz	6502	9/29/2017	9/30/2018
1232	AGILENT / HP	PRE-AMPLIFIER	1 - 26.5 GHz	8449B	5/23/2017	5/31/2018
3258	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3115	10/13/2016	4/30/2018
3427B	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	9/21/2017	3/31/2019
3430	MCS	ANTENNA, HORN	18 - 26.5 GHz	K-5039	No Calibration Required	
3430A	MCS	ANTENNA, HORN	26.5 - 40 GHz	R-5041	No Calibration Required	
4029B	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3 / 10 Meters	RNH	4/13/2016	4/30/2018
443	ELECTRO-METRICS	ANTENNA, LOG PERIODIC	200 MHz - 1000 MHz	LPA-25	10/6/2016	4/30/2018
4972	PHILCO	TERMINATION, COAXIAL	50 OHM, DC - 1 GHz	1608-150	10/26/2017	10/31/2018
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/17/2017	10/31/2018
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibration Required	
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	10/13/2017	10/31/2018
5234	PASTERNACK	CABLE, COAXIAL	10 kHz - 18 GHz	PE302-230	7/24/2017	7/31/2018

FCC Section 15.207(b)
Conducted Emissions, Power Leads, 150 kHz to 30 MHz

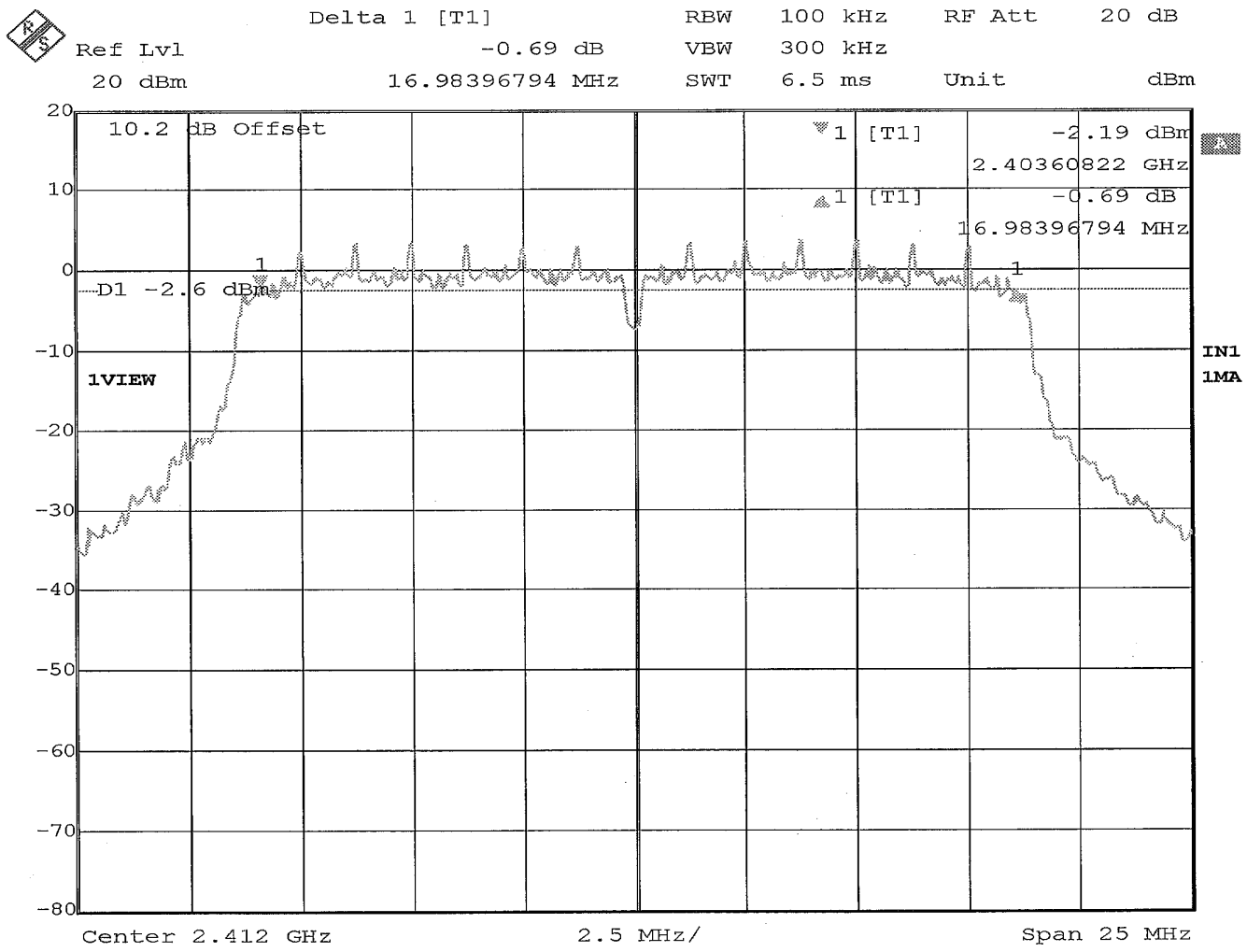
EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5030B	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	3/7/2017	3/31/2018
5209	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	4/4/2017	4/30/2018
5210	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	4/4/2017	4/30/2018
5231	AGILENT / HP	ANALYZER, SPECTRUM	3 Hz - 26.5 GHz	E4440A	5/24/2017	5/31/2018

Test Photographs
Occupied Bandwidth (6dB Bandwidth)

Test Setup

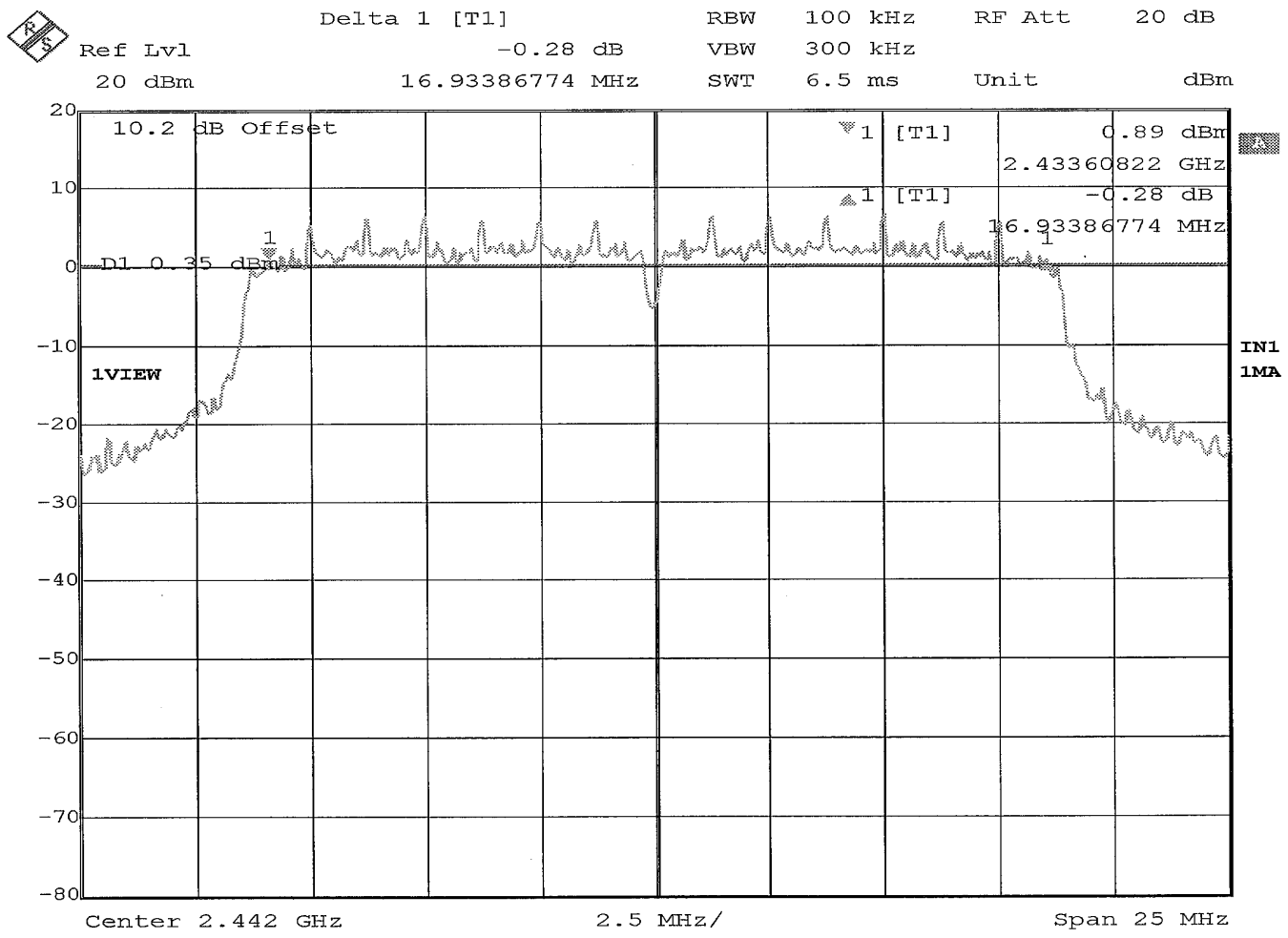
FCC Part 15, Subpart C, Section 15.247(a)(2)
Occupied Bandwidth (6 dB Bandwidth)
Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 16.983 MHz



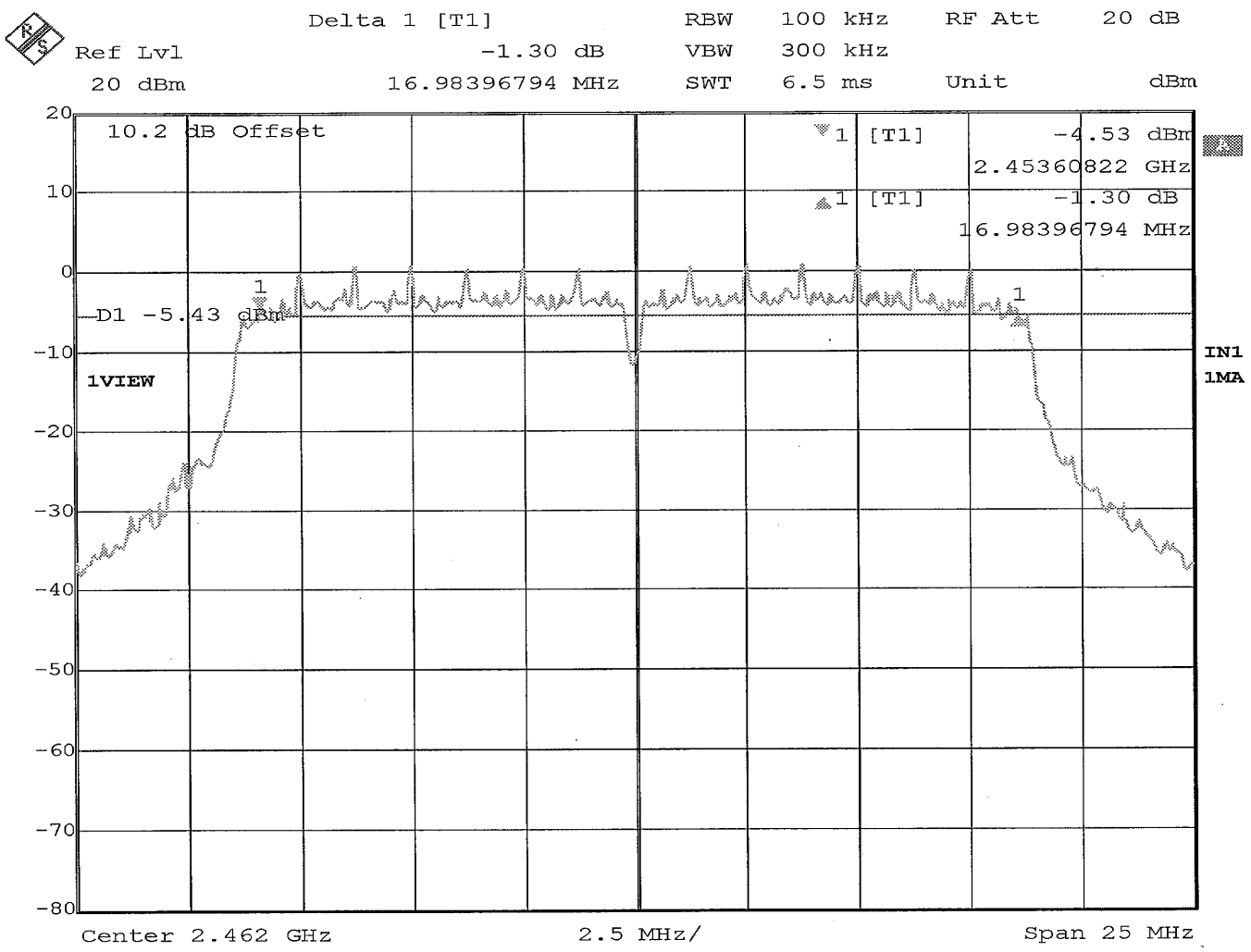
Port: Ch0 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 16.933 MHz



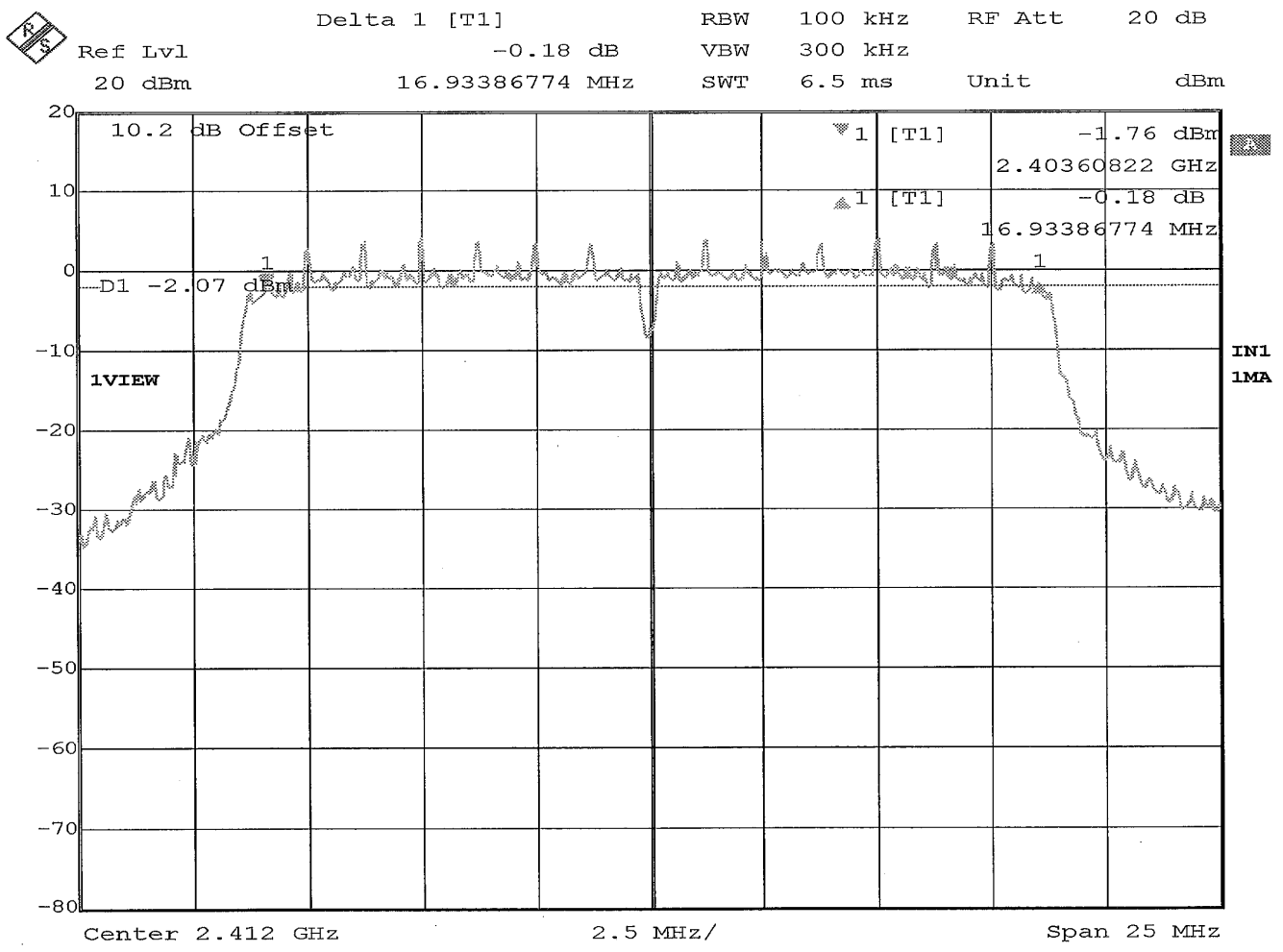
Port: Ch0 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 16.983 MHz



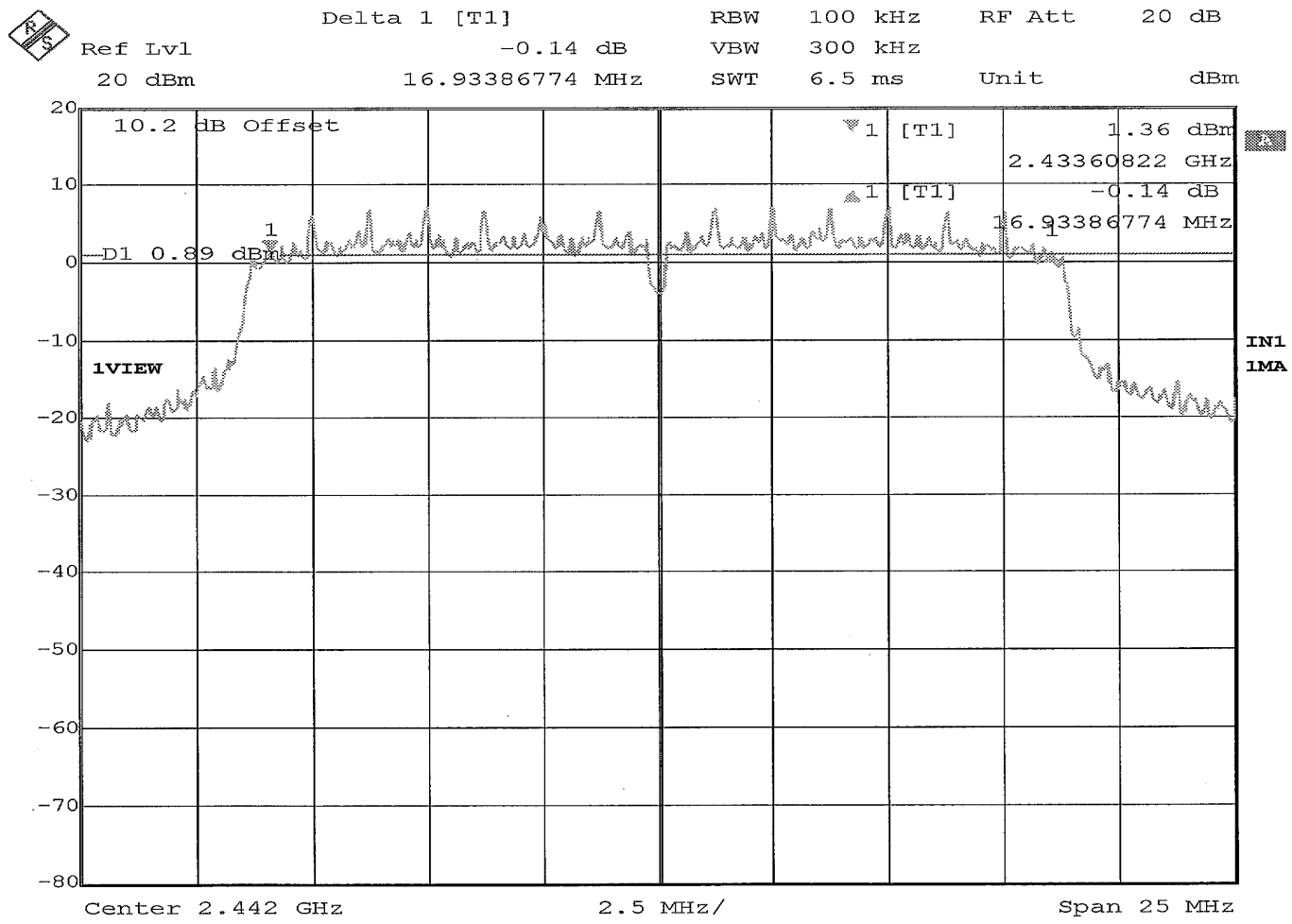
Port: Ch0 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 16.933 MHz



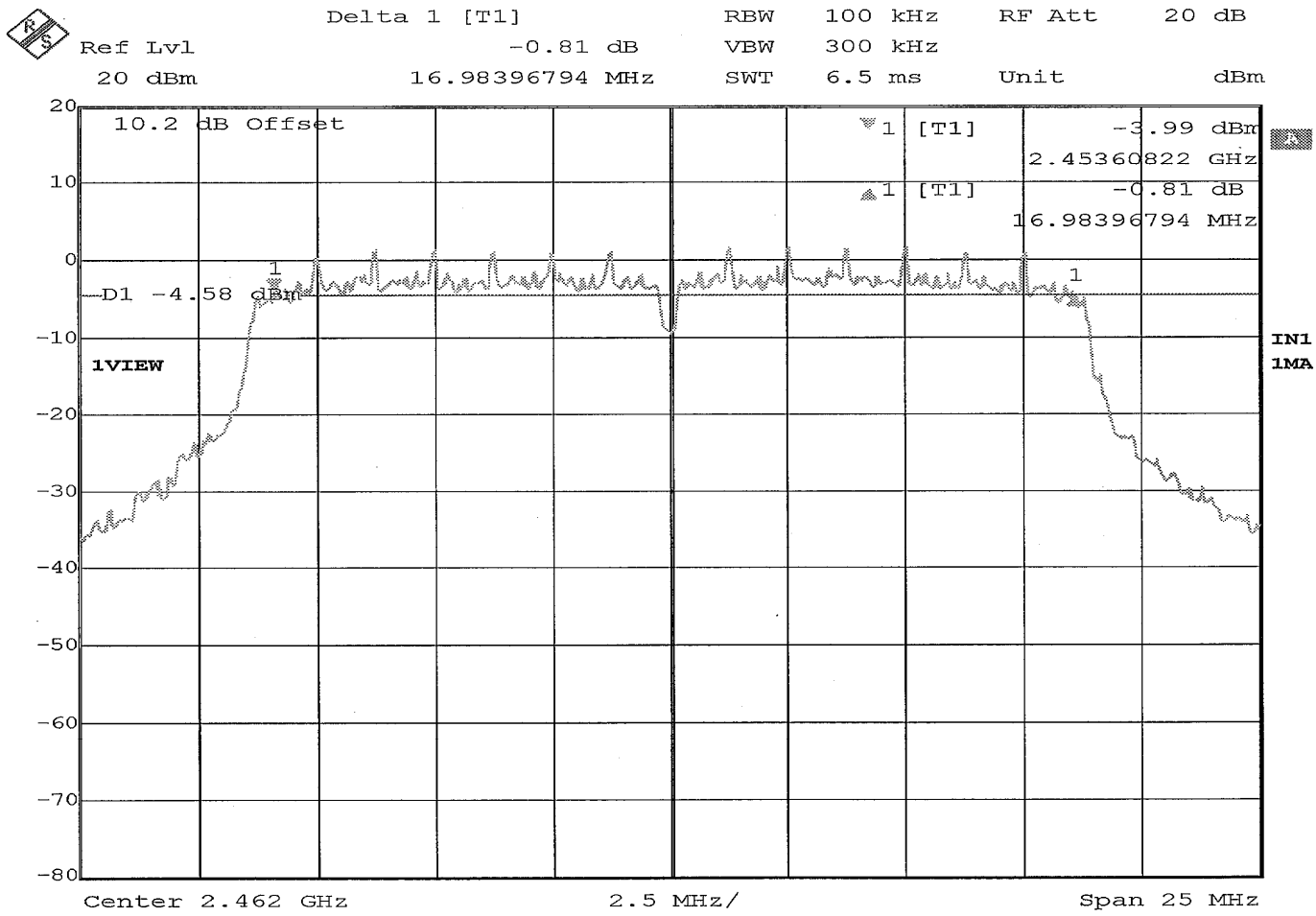
Port: Ch1 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 16.933 MHz



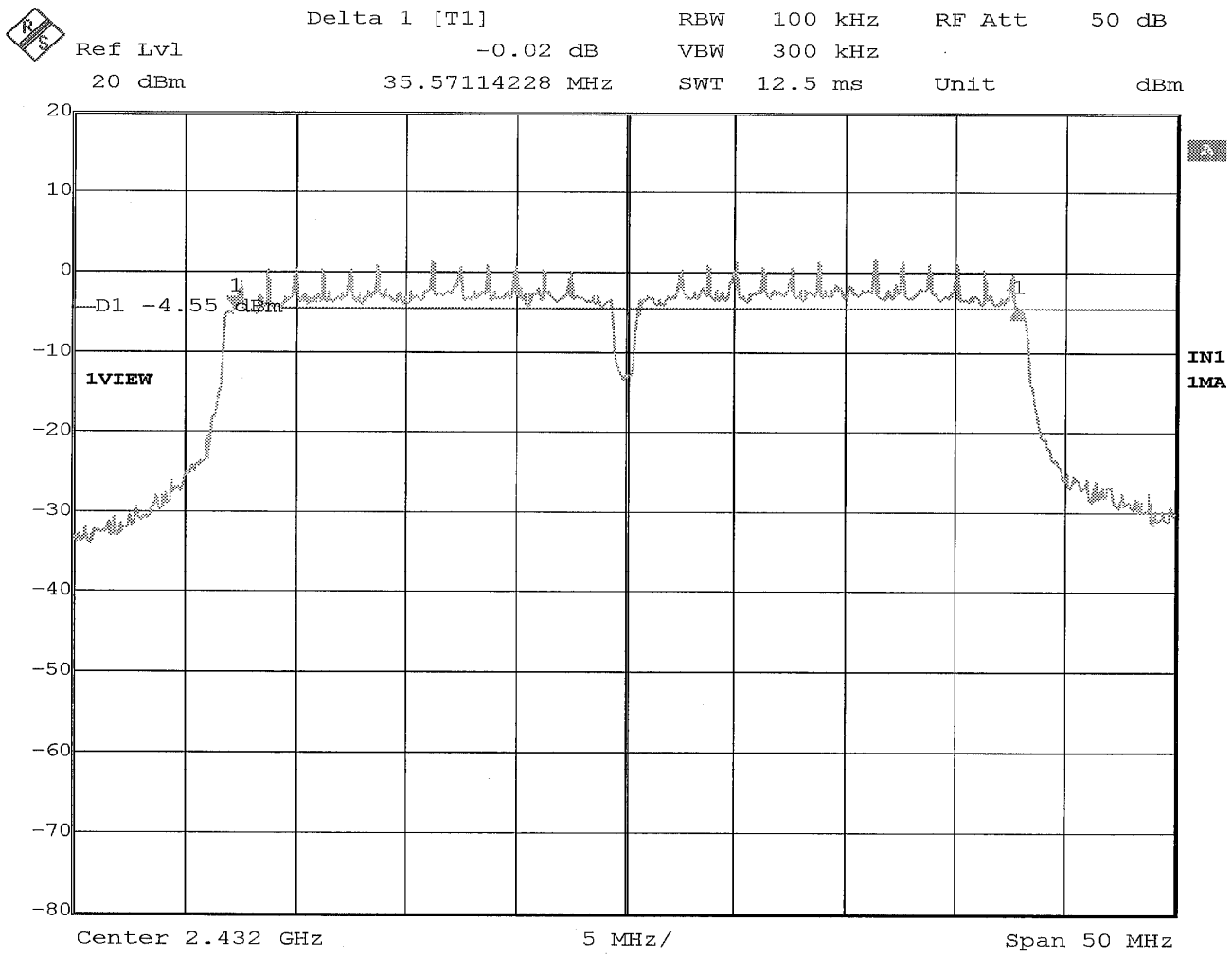
Port: Ch1 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 16.983 MHz



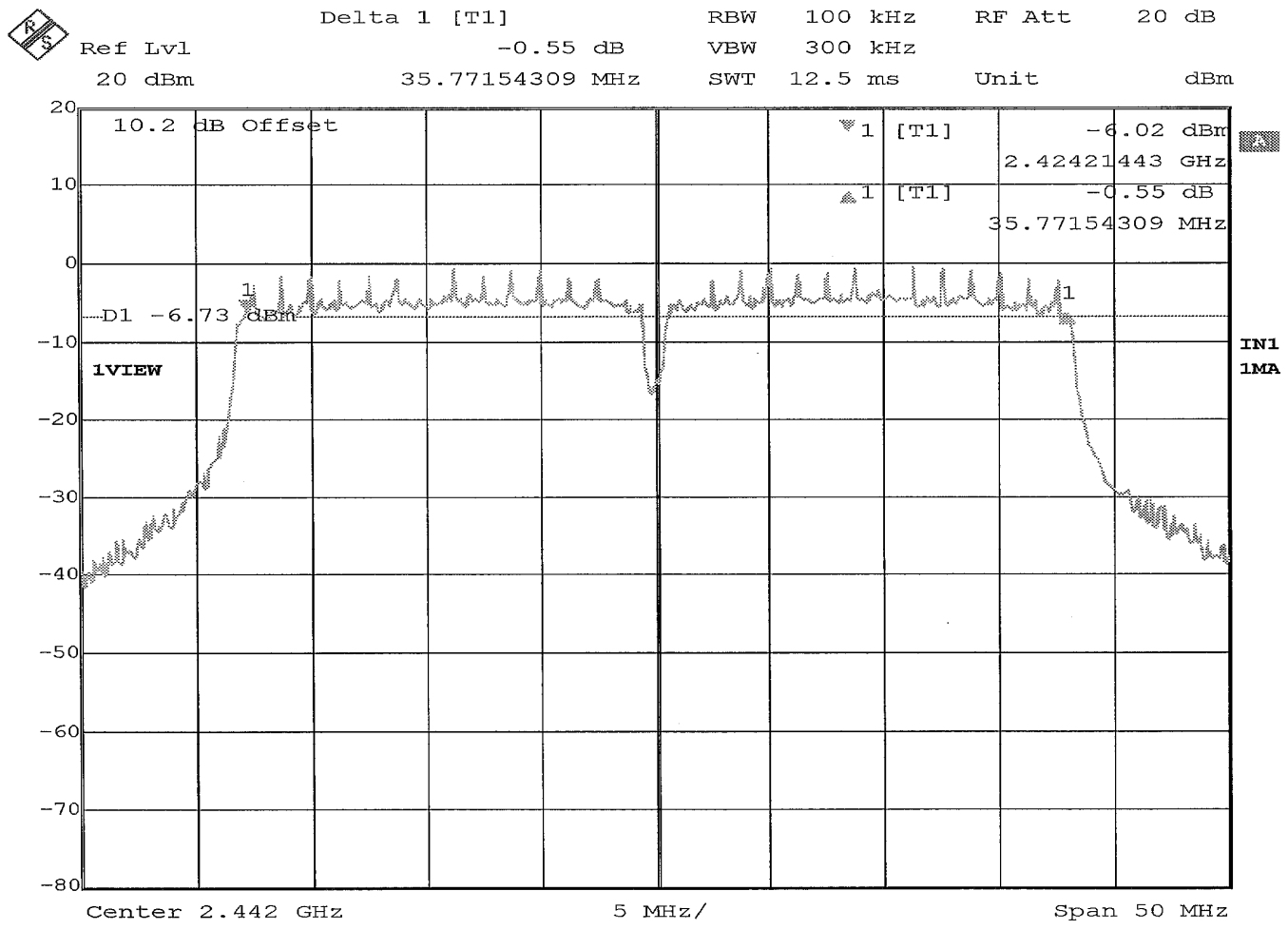
Port: Ch1 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 35.571 MHz



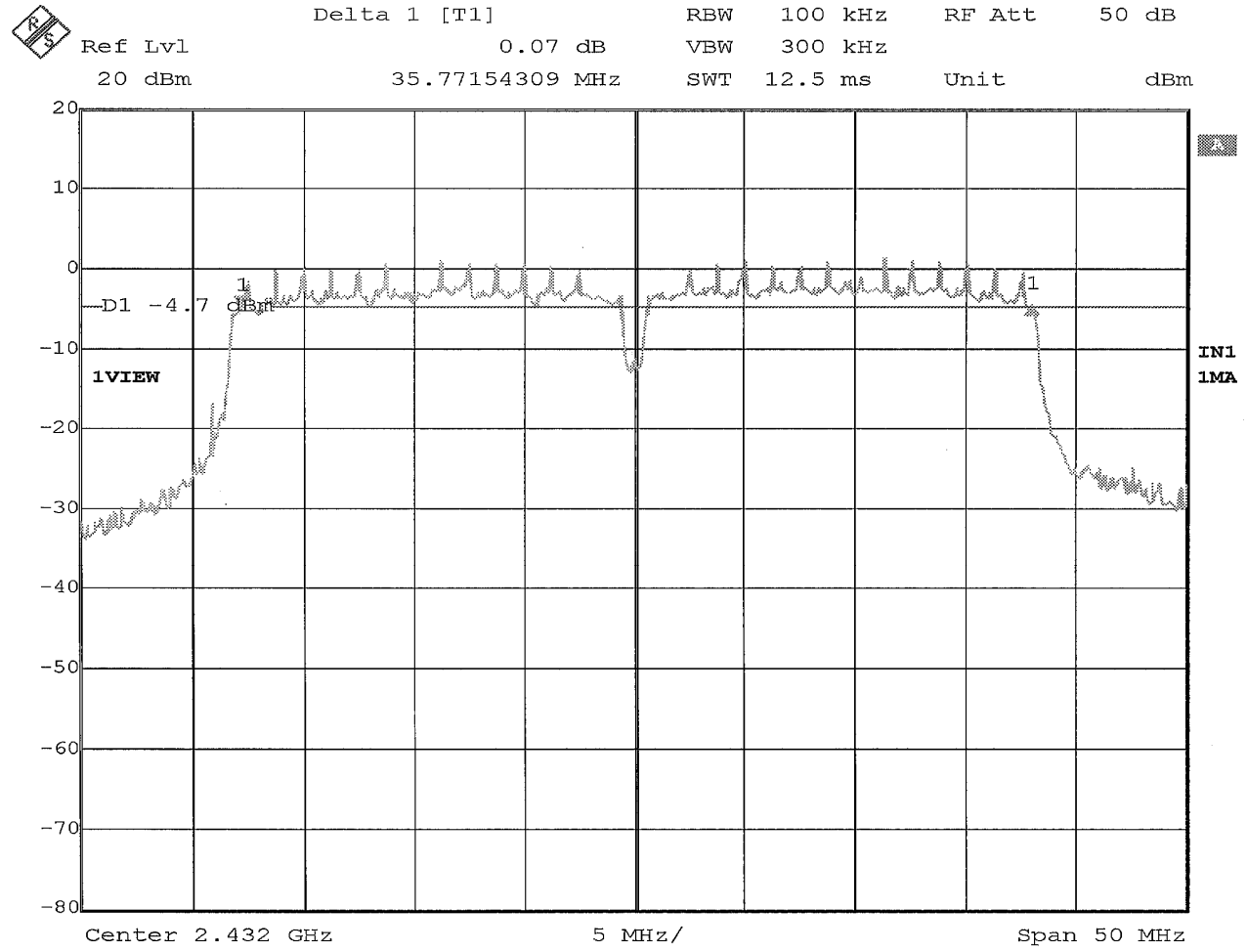
Port: Ch0 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 35.771 MHz



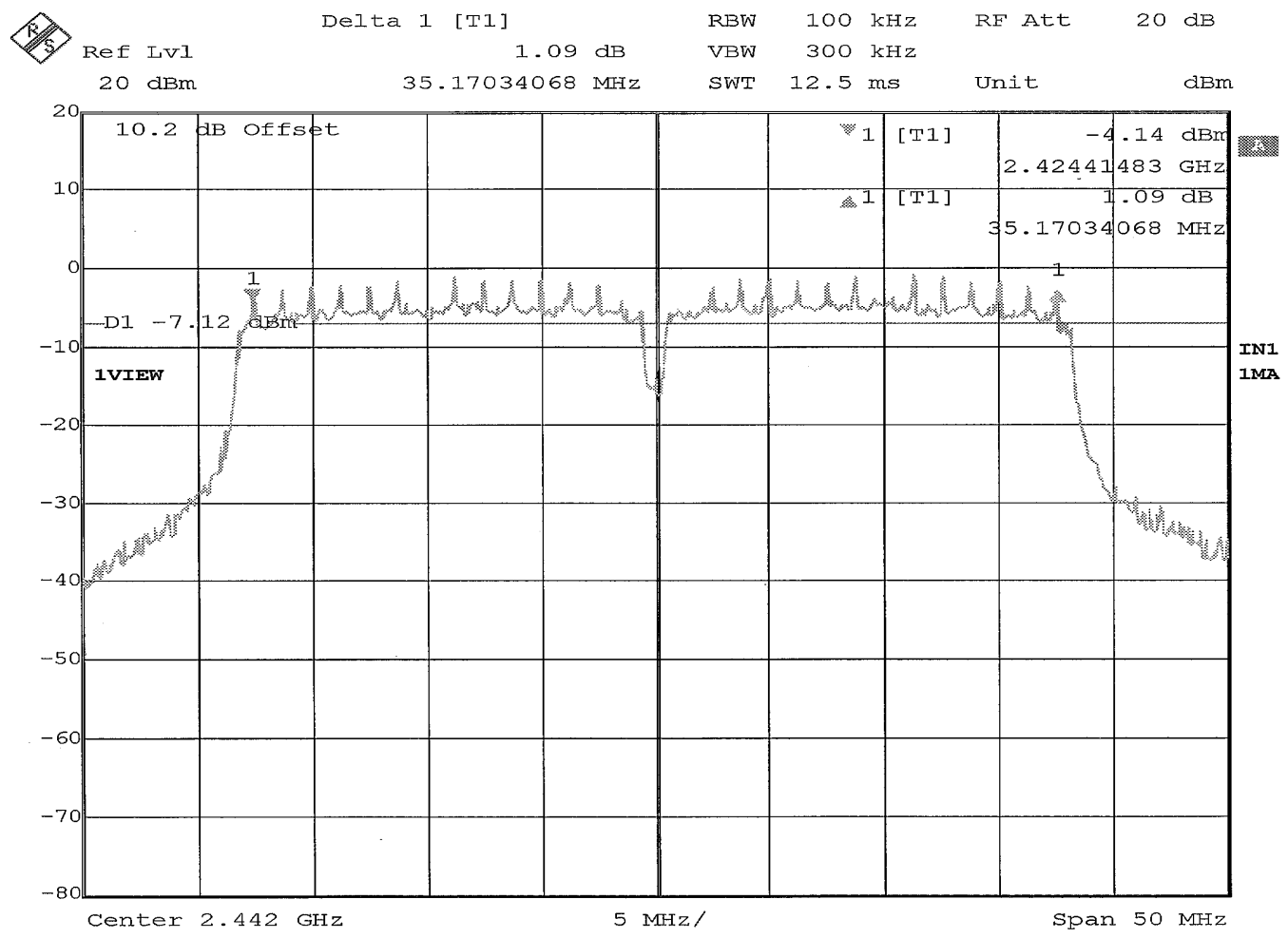
Port: Ch0 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 35.771 MHz



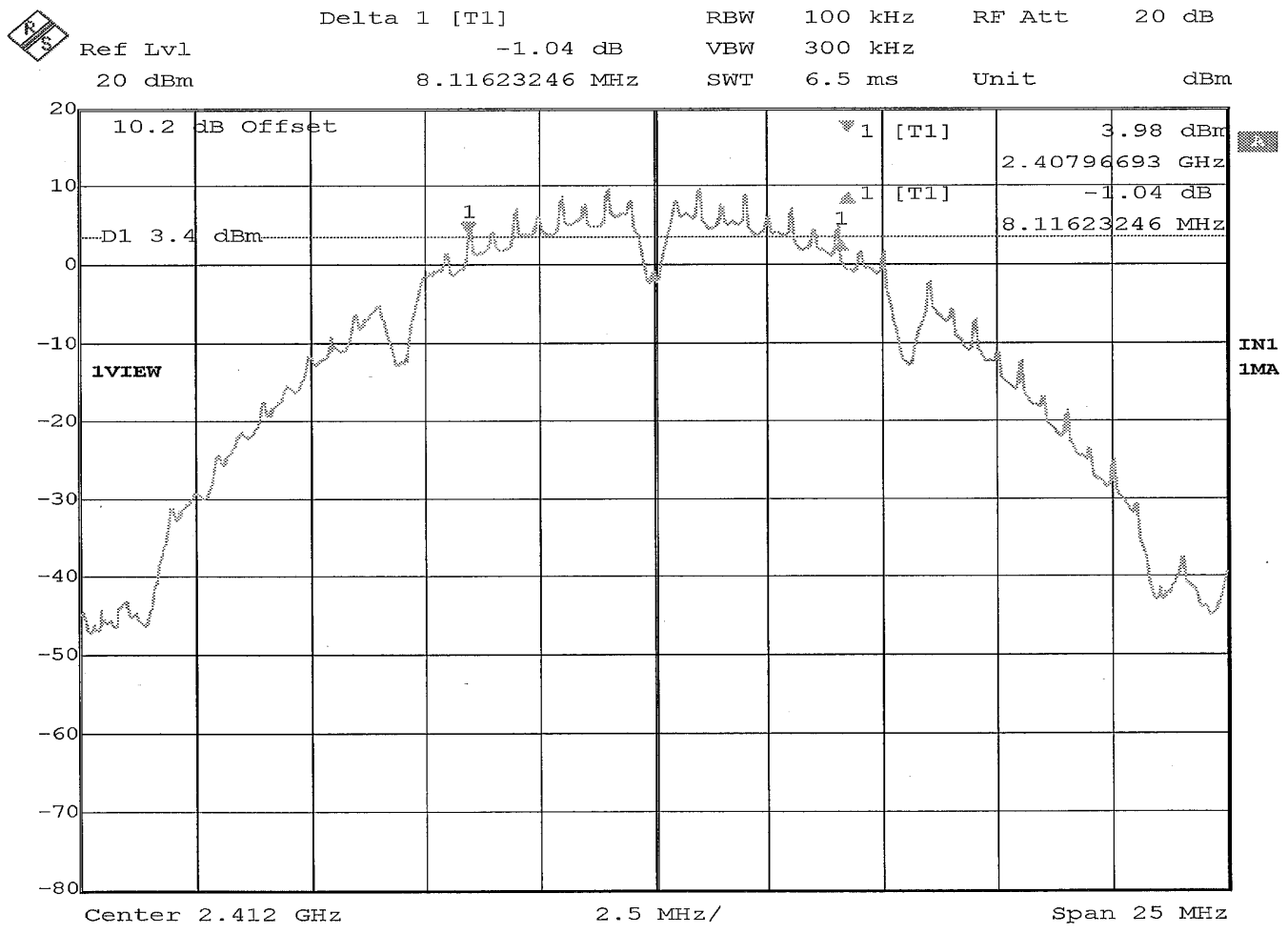
Port: Ch1 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 35.170 MHz



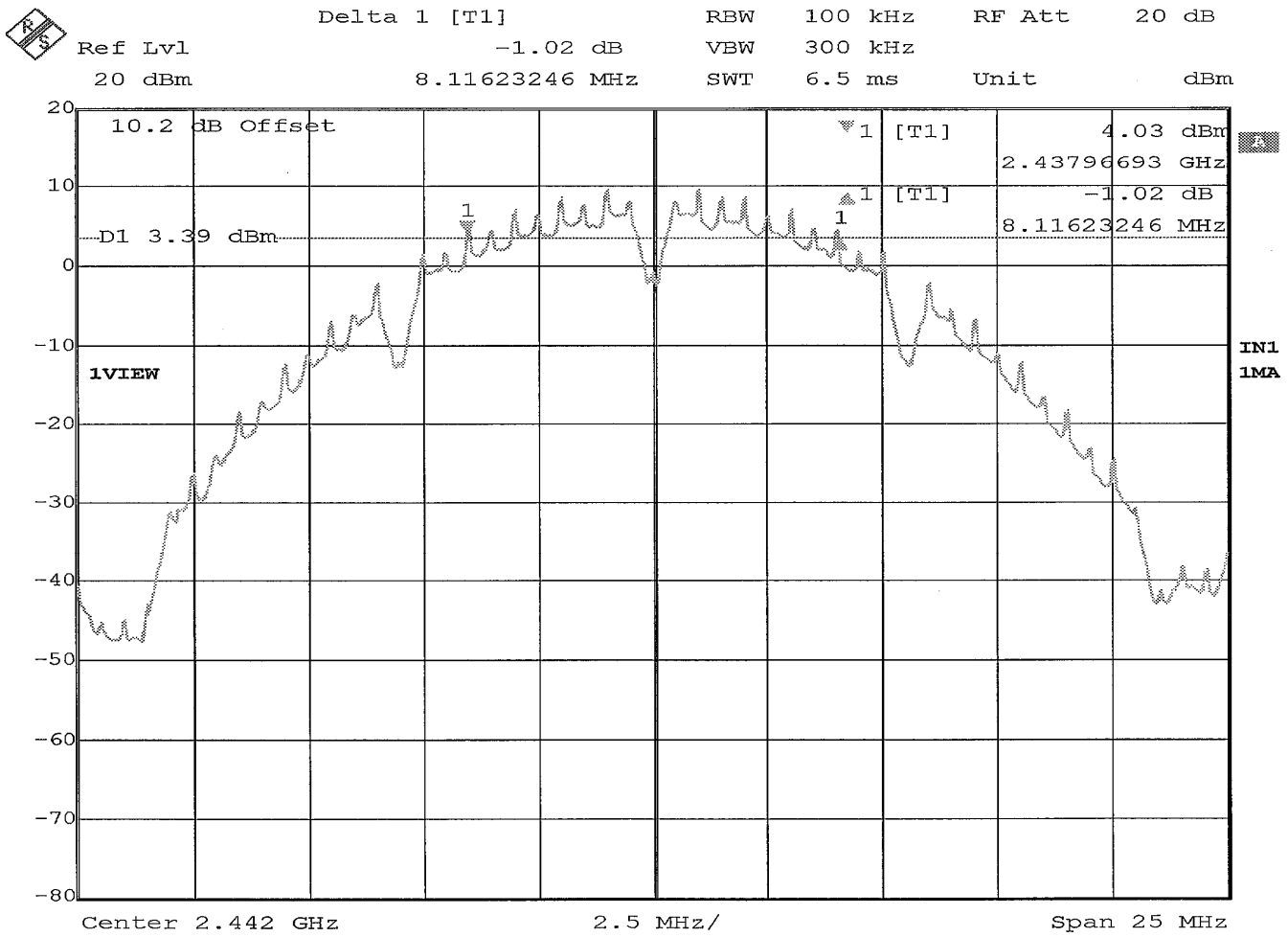
Port: Ch1 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 8.116 MHz



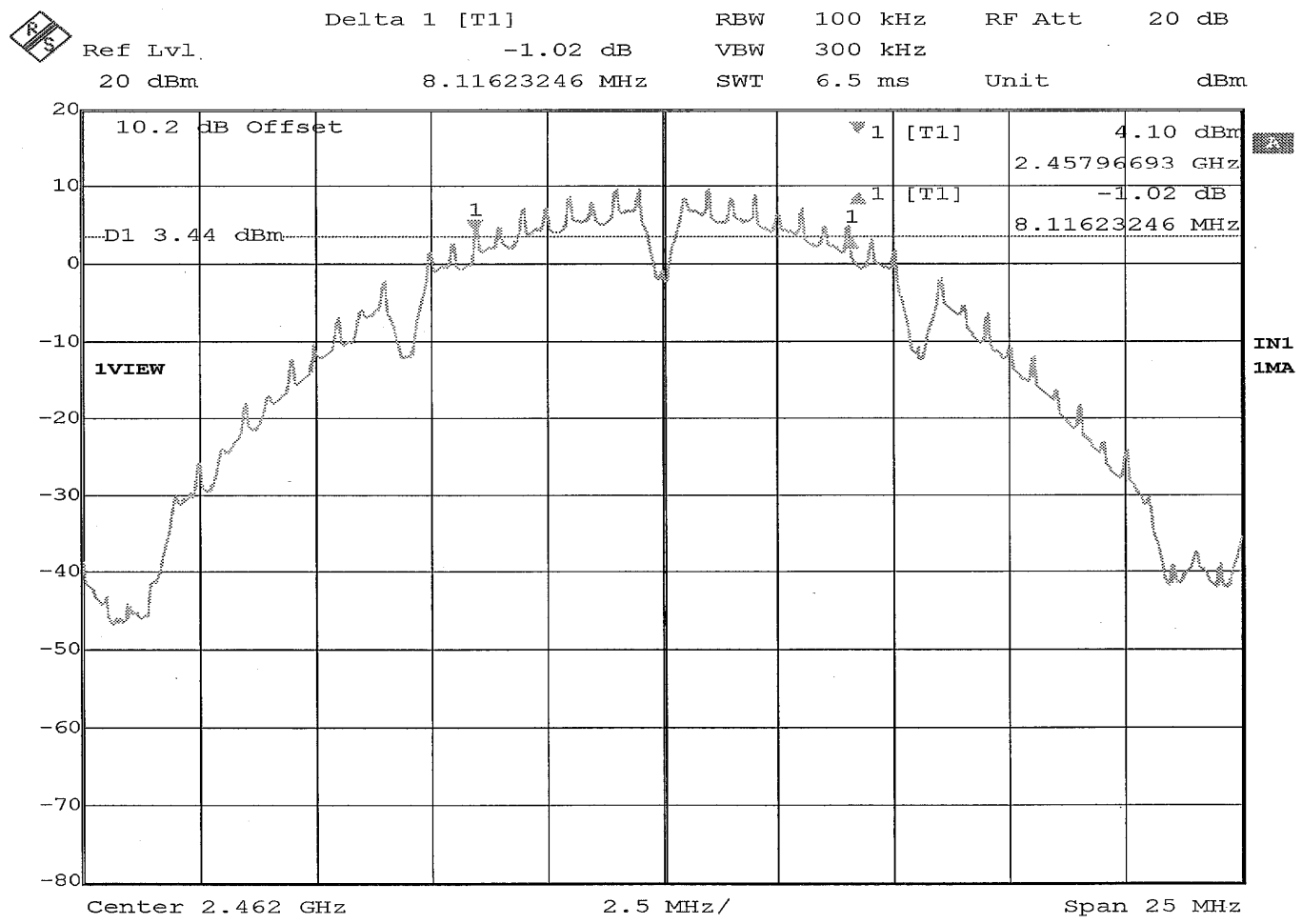
Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 8.116 MHz



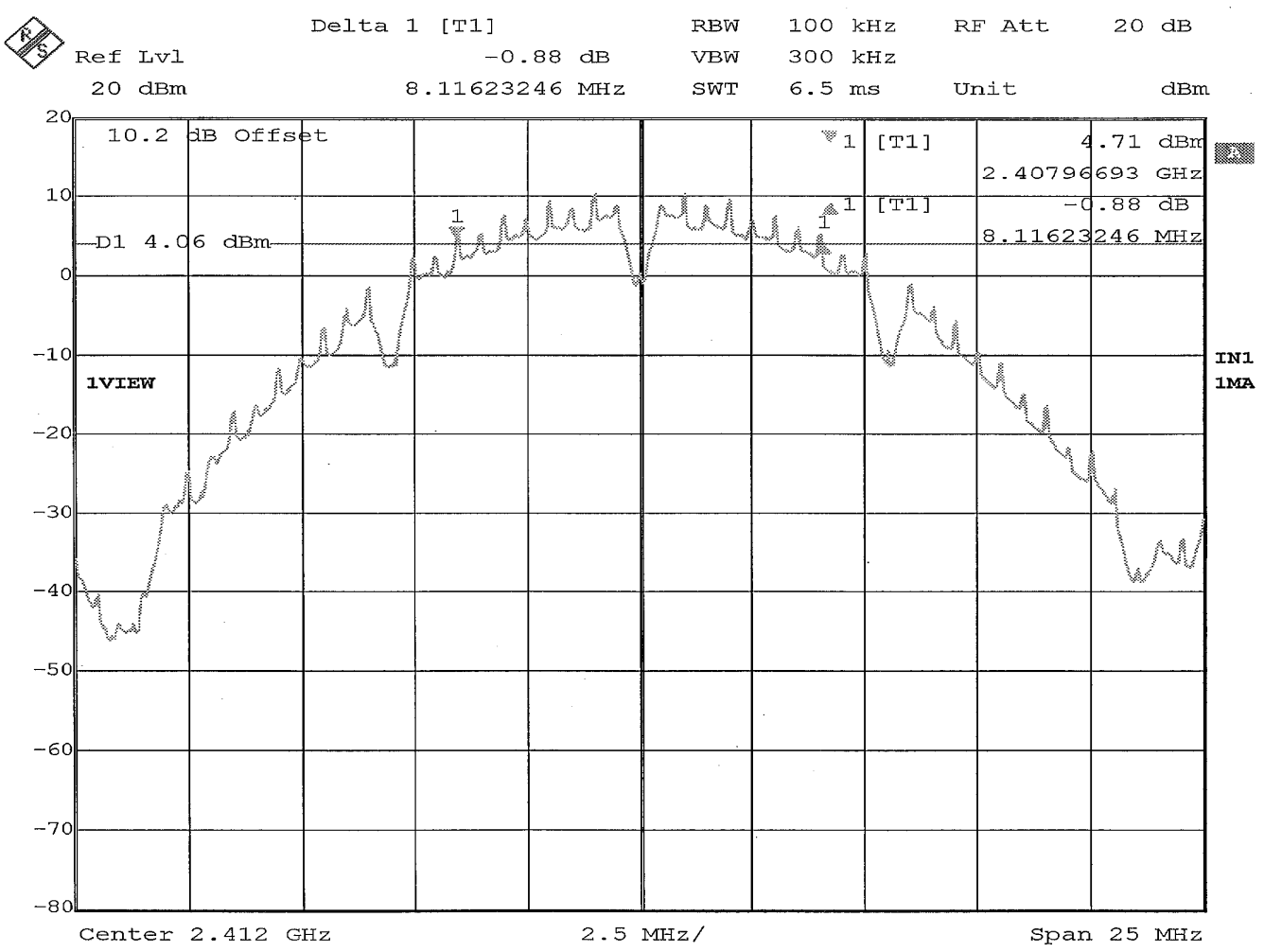
Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 8.116 MHz



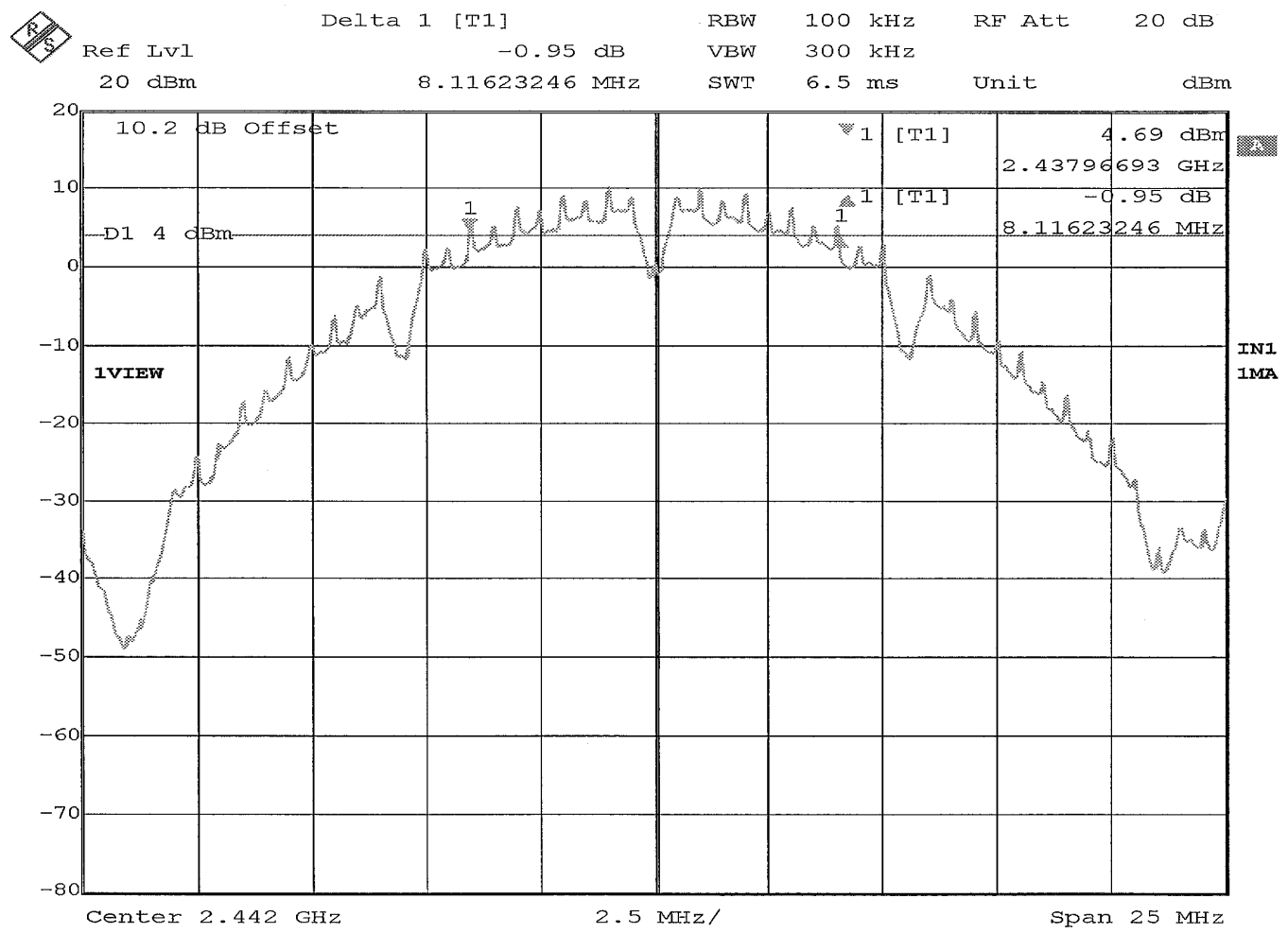
Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 8.116 MHz



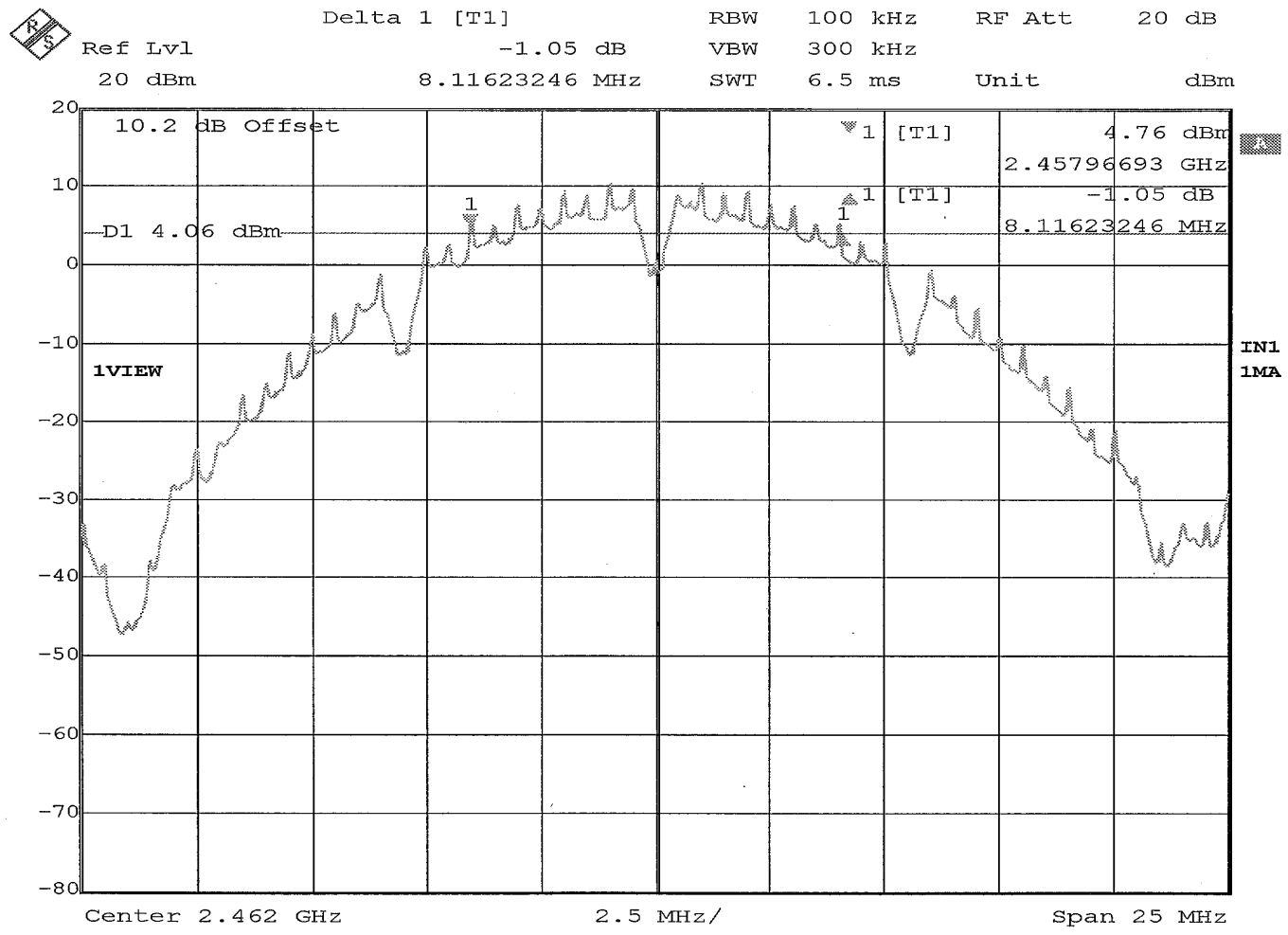
Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 8.116 MHz



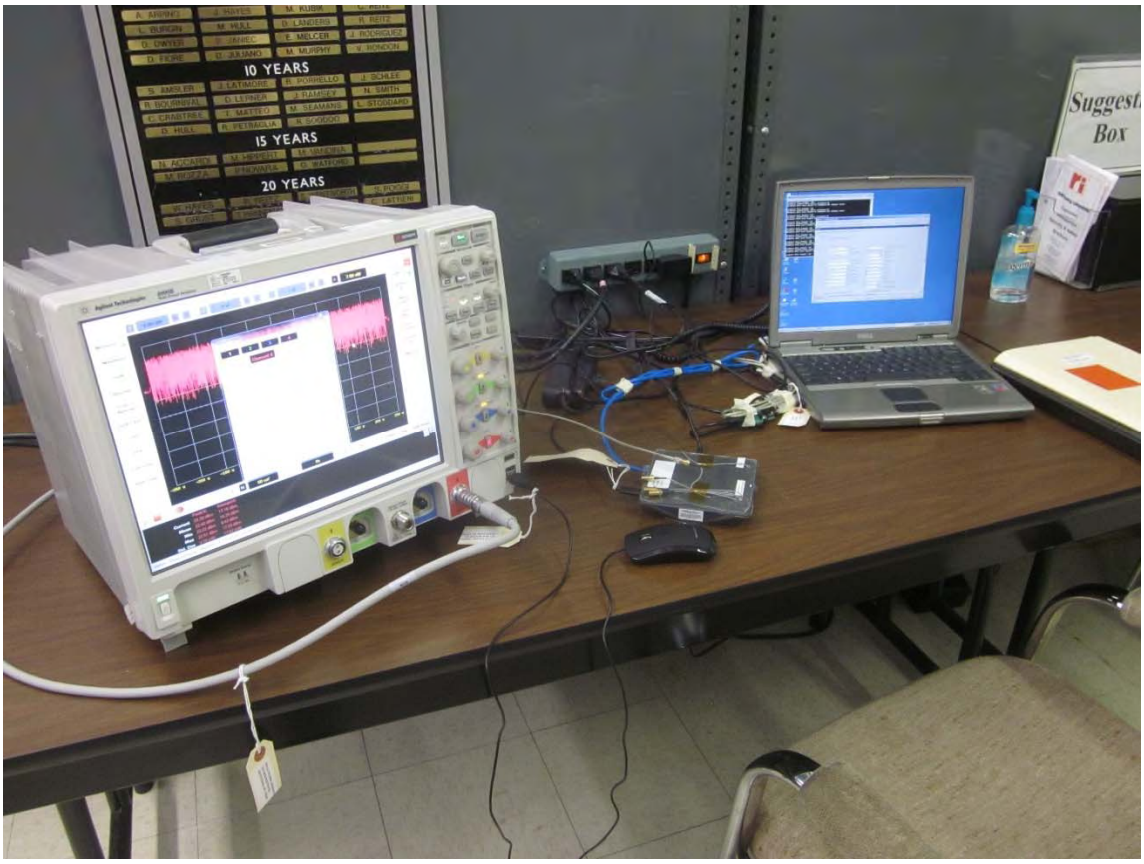
Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Occupied Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 19th, 2018
Temp/ Relative Humidity:	21.0 °C / 20.5 %
Result:	6dB Bandwidth: 8.116 MHz



Port: Ch1 Modulation: CCK

Test Photographs
Power Output



Test Setup

FCC Part 15, Subpart C, Section 15.247(b)(3)
Power Output
Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Peak Power Output**
Test Specification:	FCC Part 15.247(b)(3)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	February 8th, 2018
Temp / Relative Humidity:	23.3 ºC / 20.4 %
Notes:	Ch0 2.4G/BT and CH1 2.4G

TEST PARAMETERS

Frequency	Channel(s)	Modulation		Peak Power Output	Peak Power Output	Limit
MHz				**dBm**	**mW**	**mW**
2412	CH0	CCK		20.30	107.151	1000.00
2442	CH0	CCK		20.53	112.979	1000.00
2462	CH0	CCK		20.81	120.503	1000.00

TEST PARAMETERS

Frequency	Channel(s)	Modulation		Peak Power Output	Peak Power Output	Limit
MHz				**dBm**	**mW**	**mW**
2412	CH1	CCK		21.61	144.877	1000.00
2442	CH1	CCK		21.67	146.892	1000.00
2462	CH1	CCK		21.54	142.560	1000.00

EMISSIONS TEST DATA SHEET	
Method:	**Peak Power Output**
Test Specification:	FCC Part 15.247(b)(3)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	February 8th, 2018
Temp / Relative Humidity:	23.3 ºC / 20.4 %
Notes:	Ch0 2.4G/BT and CH1 2.4G

TEST PARAMETERS

Frequency	Modulation	CH 0 Peak Power Output	Ch 1 Peak Power Output	Summed Peak Power Output	Peak Power Output	Limit
MHz		**dBm**	**dBm**	**dBm**	**mW**	**mW**
2412	20 MHz	20.61	21.94	24.336	271.394	1000.00
2437	20 MHz	22.75	23.40	26.097	407.141	1000.00
2462	20 MHz	17.43	19.27	21.457	139.862	1000.00

TEST PARAMETERS

Frequency	Modulation	CH 0 Peak Power Output	Ch 1 Peak Power Output	Peak Power Output	Peak Power Output	Limit
MHz		**dBm**	**dBm**	**dBm**	**mW**	**mW**
2432	40 MHz	21.92	20.47	24.960	313.357	1000.00
2442	40 MHz	21.98	22.52	25.268	336.409	1000.00

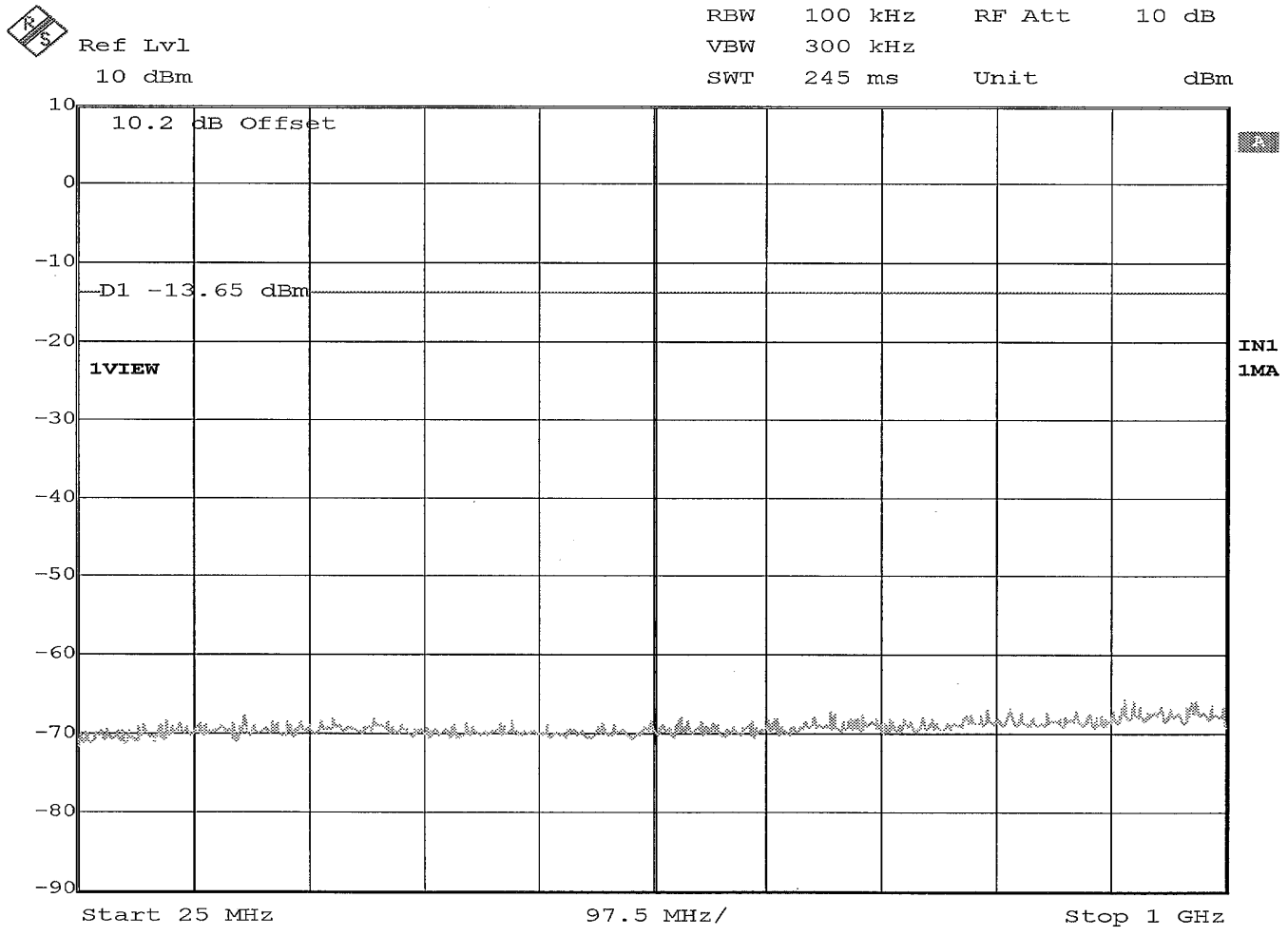
Test Photographs
Antenna Port, Conducted Emissions / Band Edge

Test Setup

FCC Part 15, Subpart C, Section 15.247(d)
Antenna Port, Conducted Emissions
Band Edge Test Data

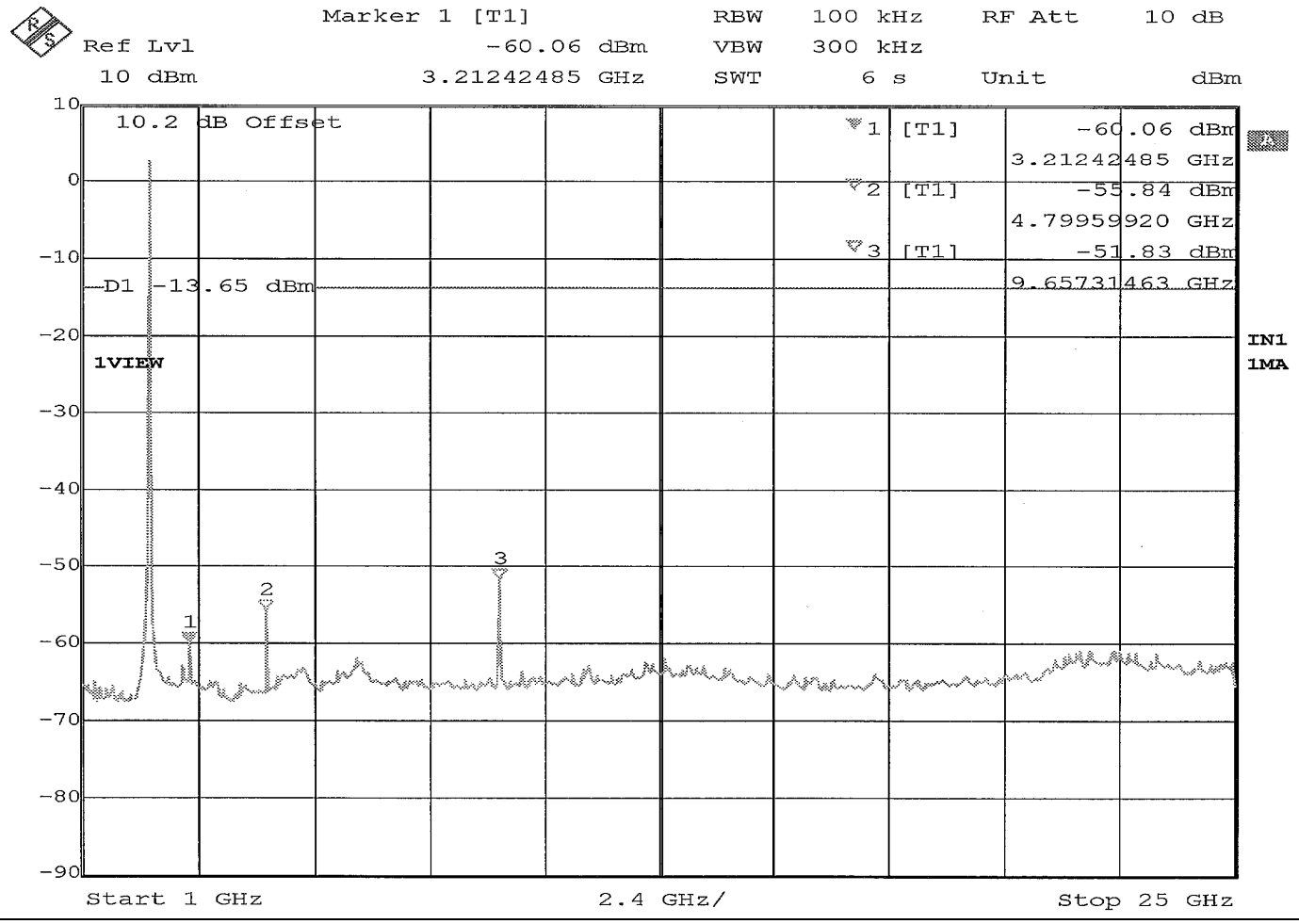
Conducted Out of Band
Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.65 dBm



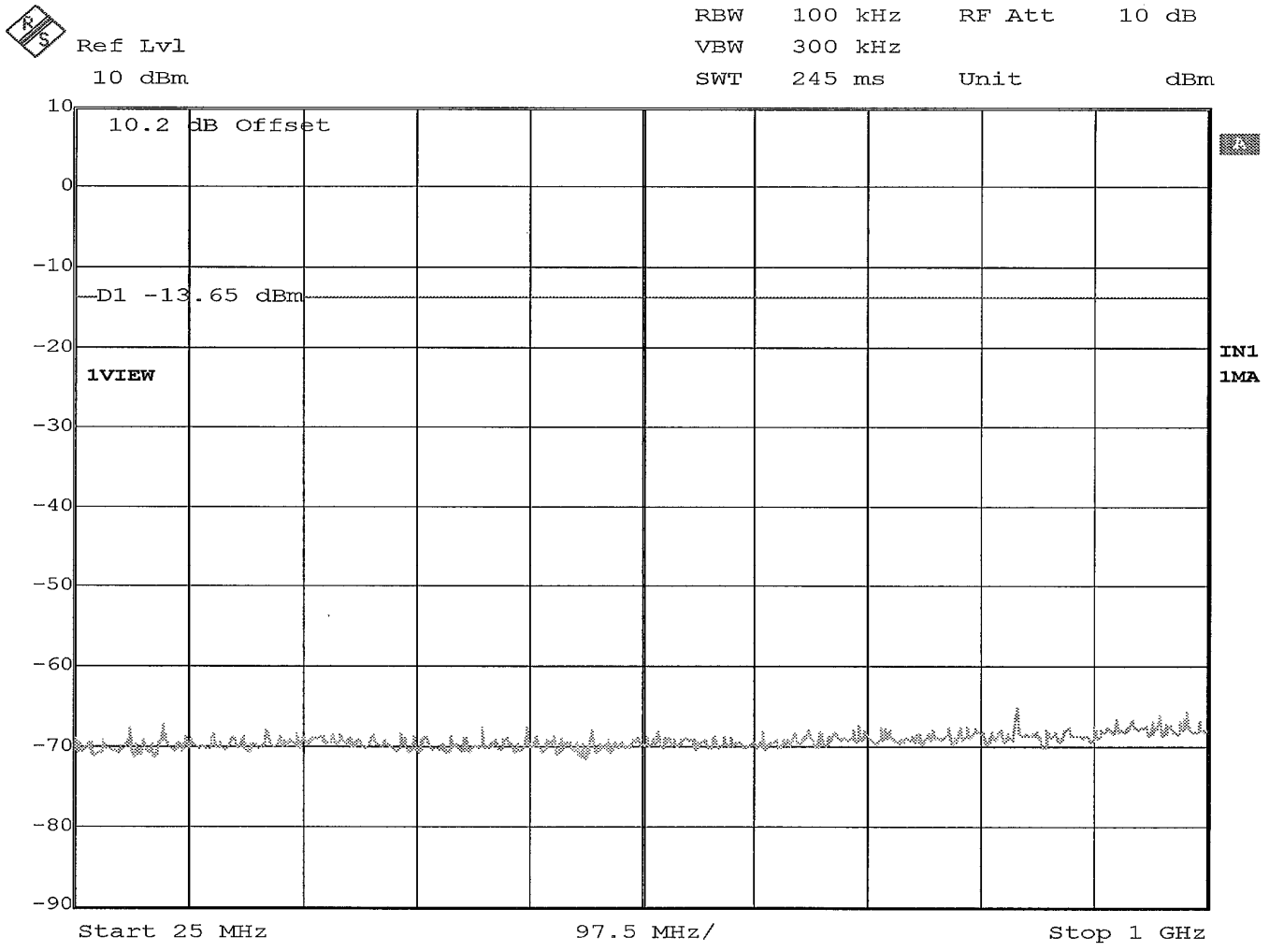
25MHz to 1GHz Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.65 dBm



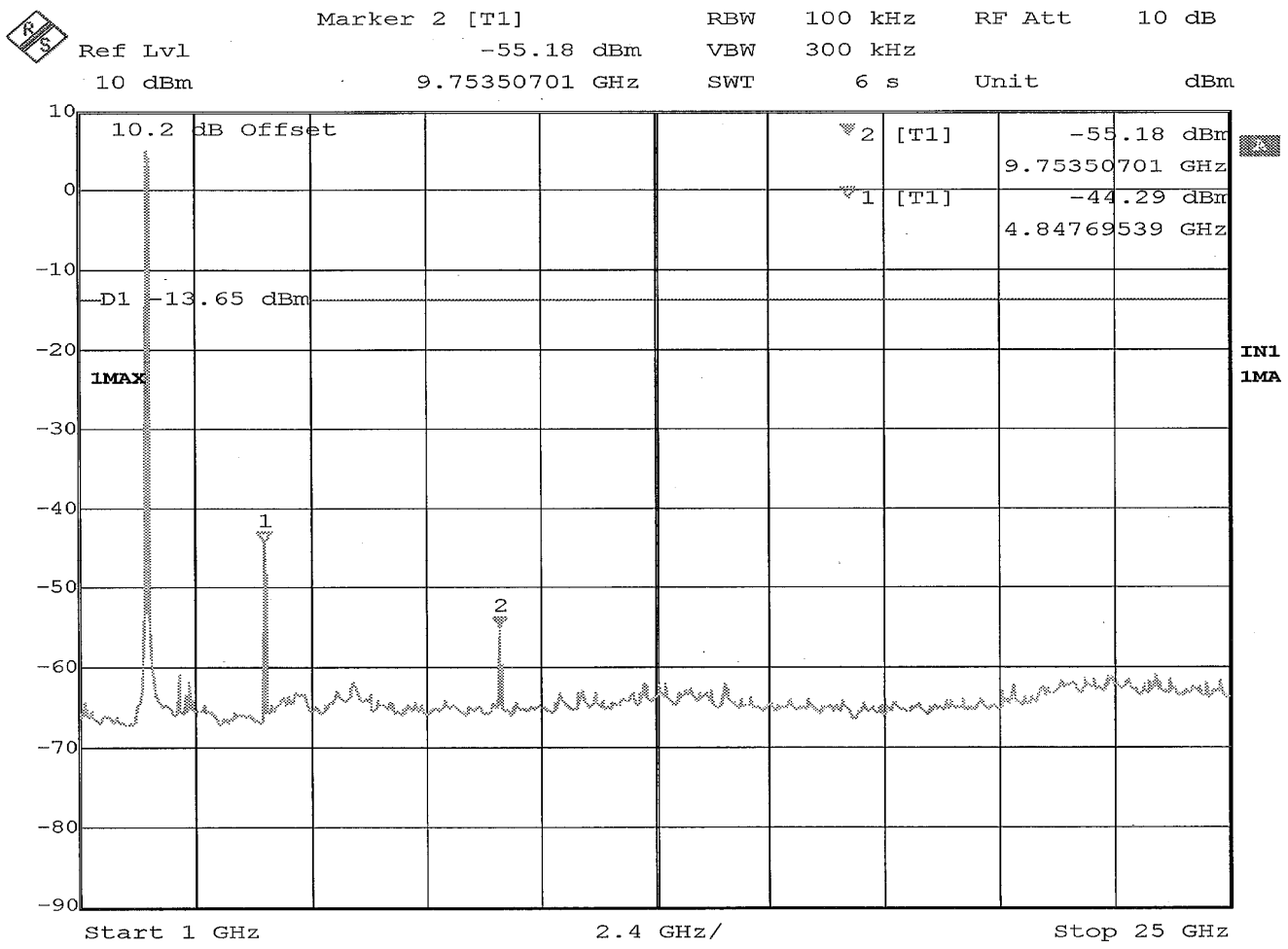
1GHz to 25GHz Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.65 dBm



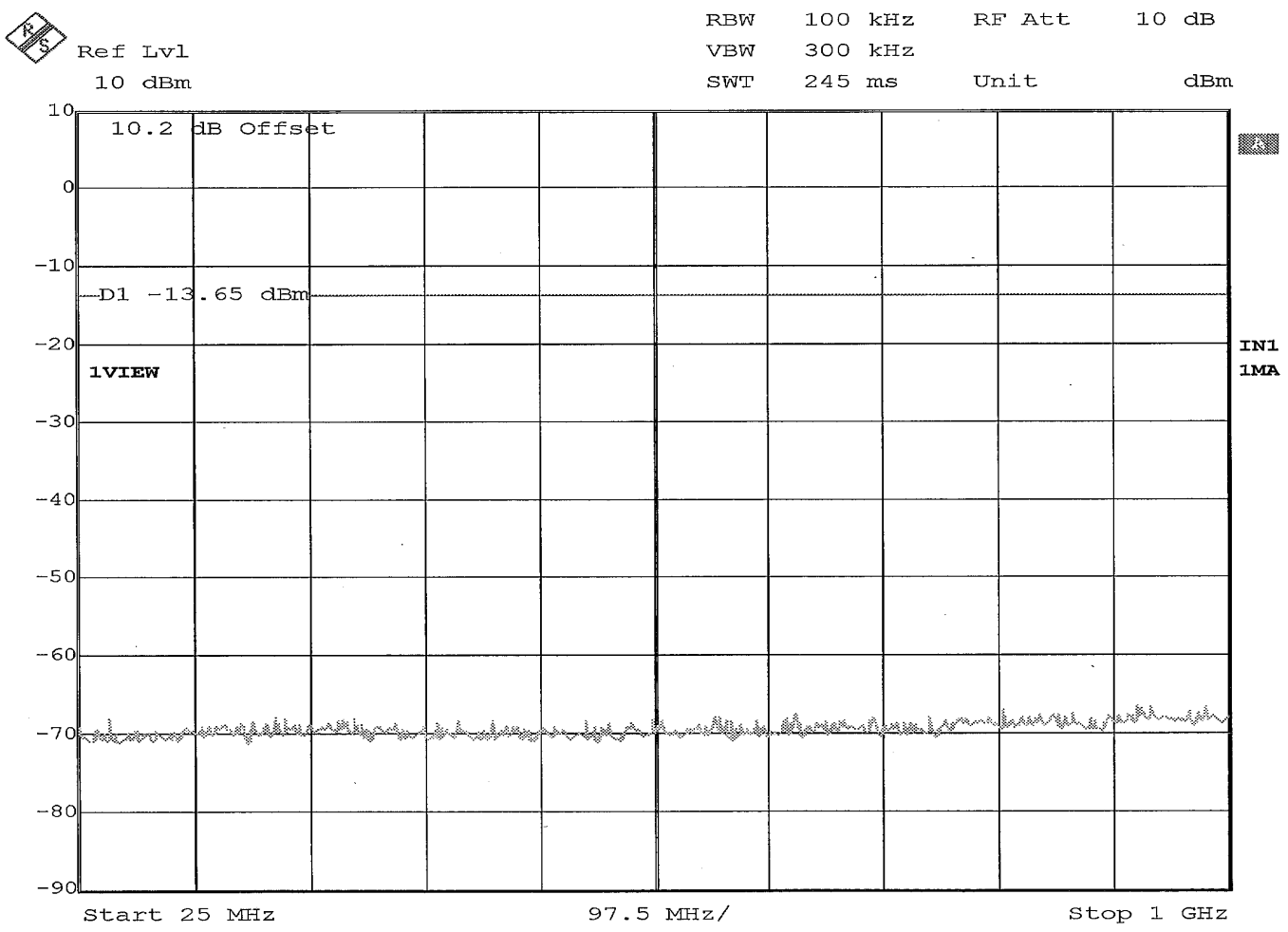
25MHz to 1GHz Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.65 dBm



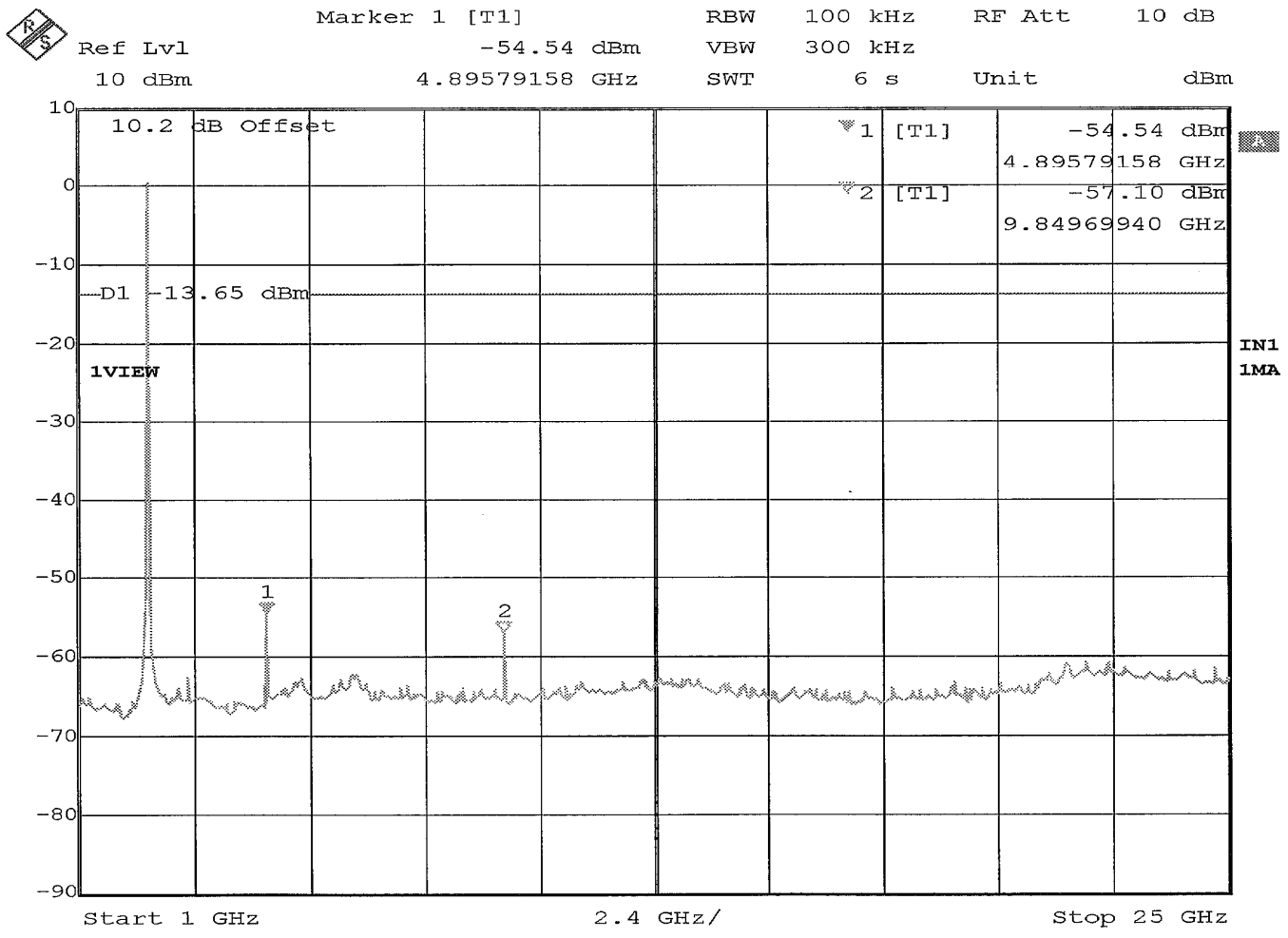
1GHz to 25GHz Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.65 dBm



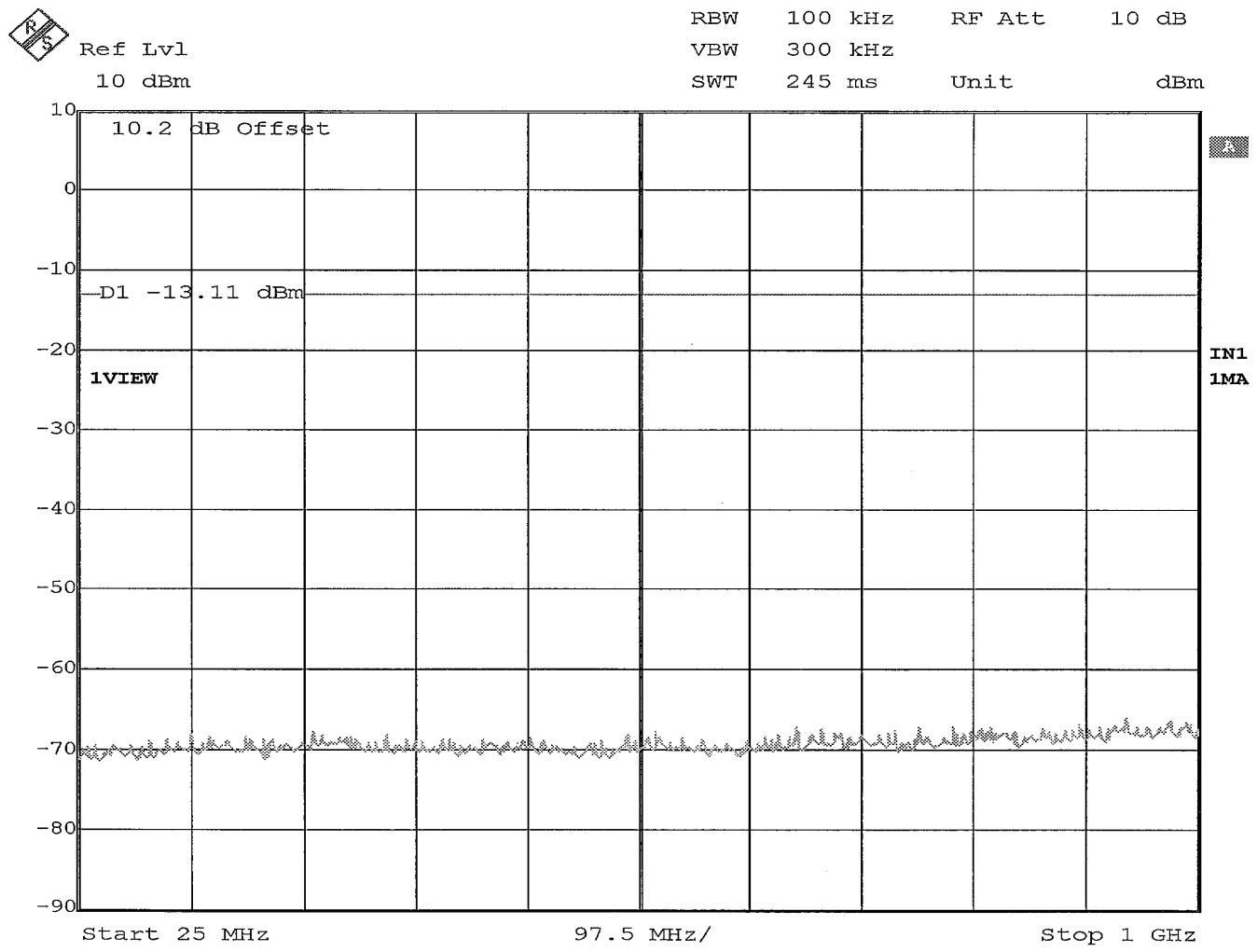
25MHz to 1GHz Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-1
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 20th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.65 dBm



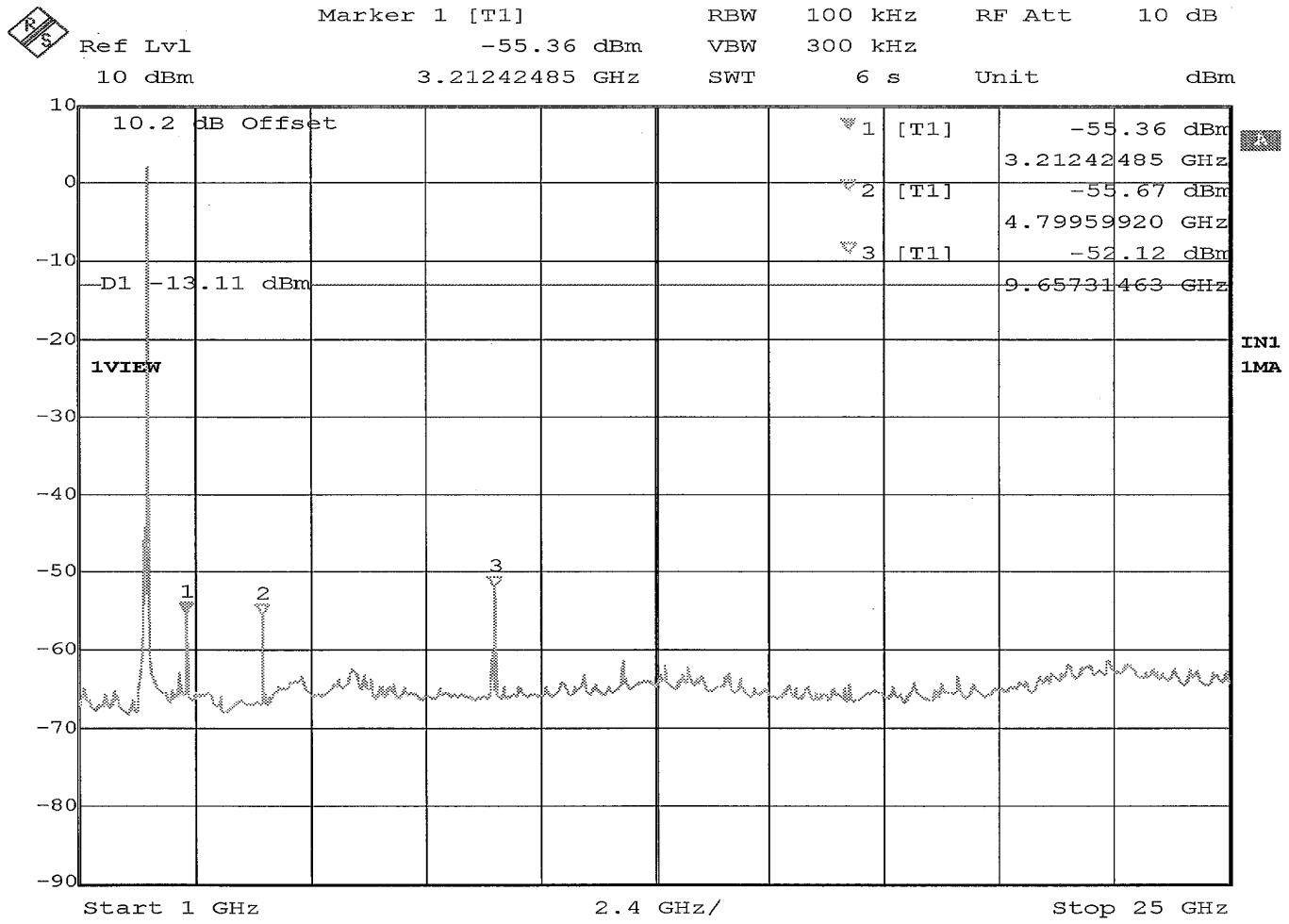
1GHz to 25GHz Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.11 dBm



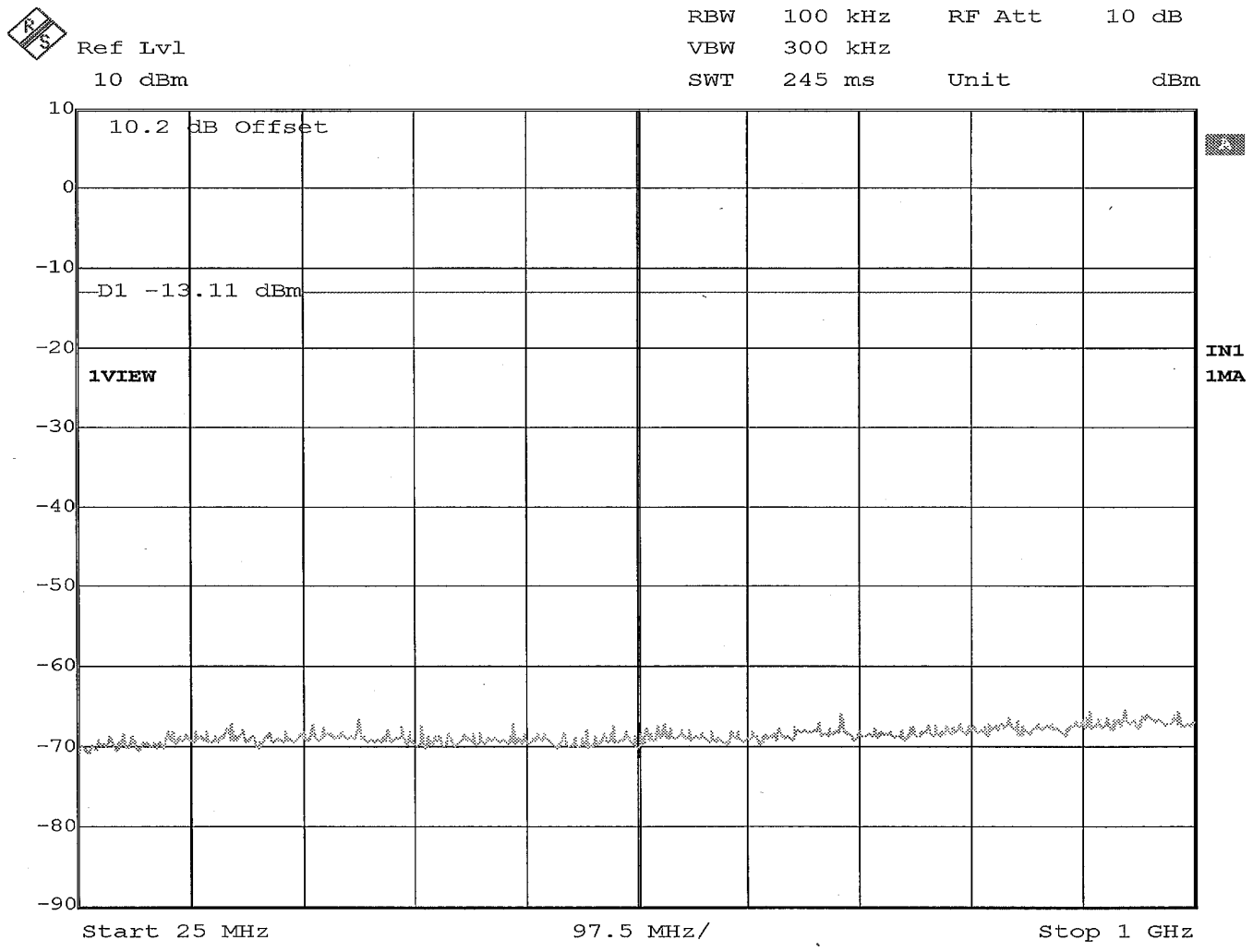
25MHz to 1GHz Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.11 dBm



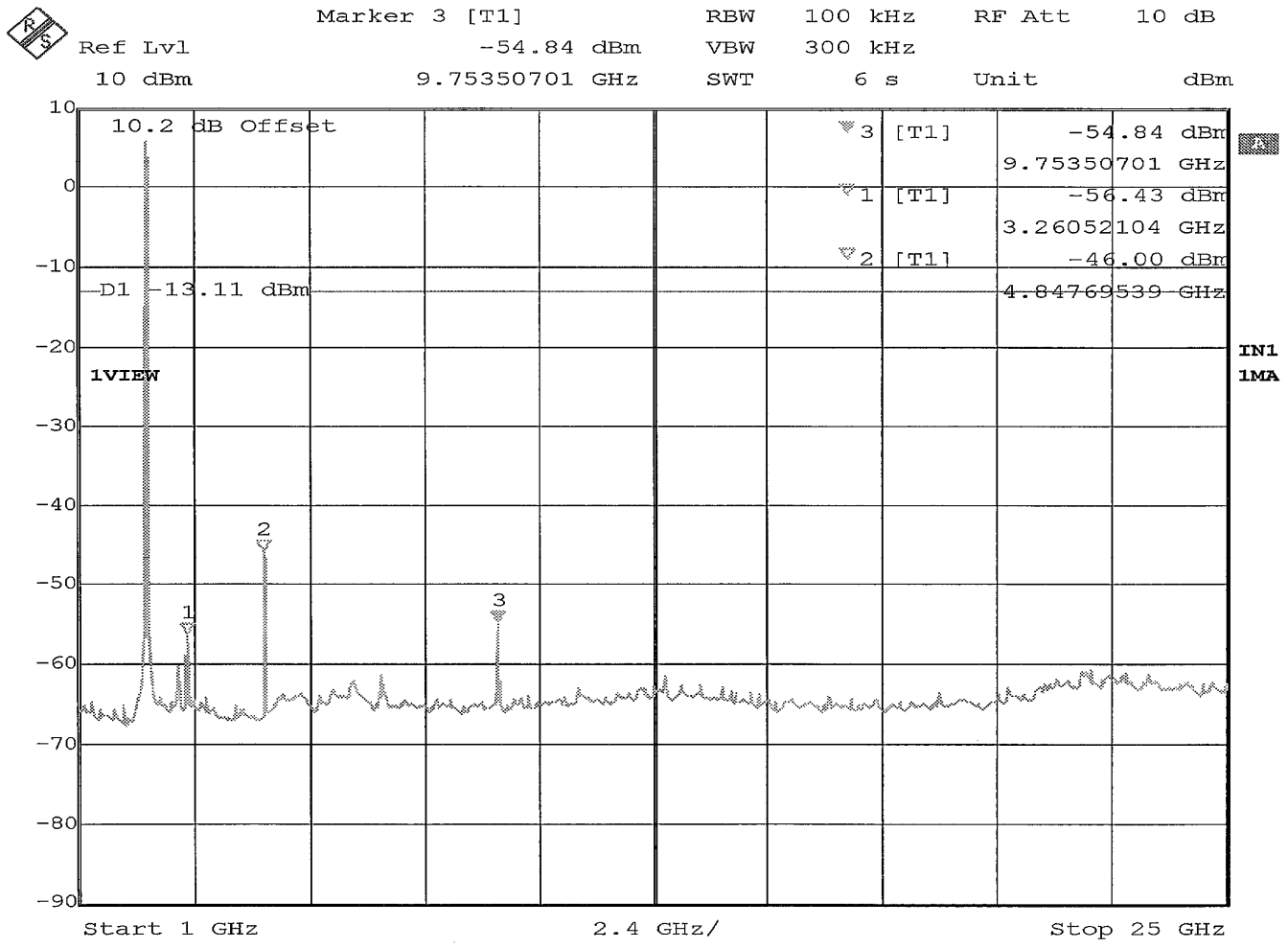
1GHz to 25GHz Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.11 dBm



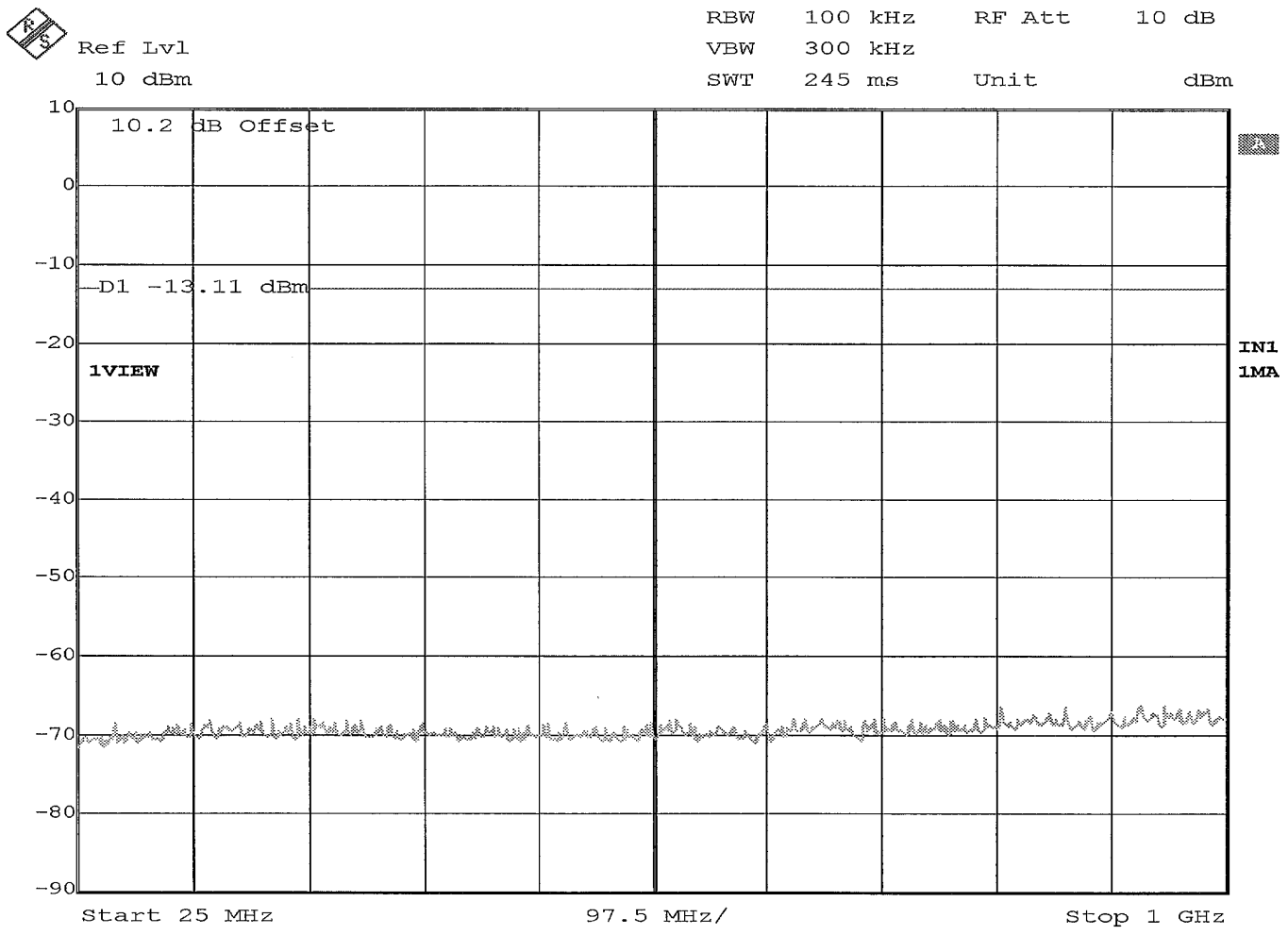
25MHz to 1GHz Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.11 dBm



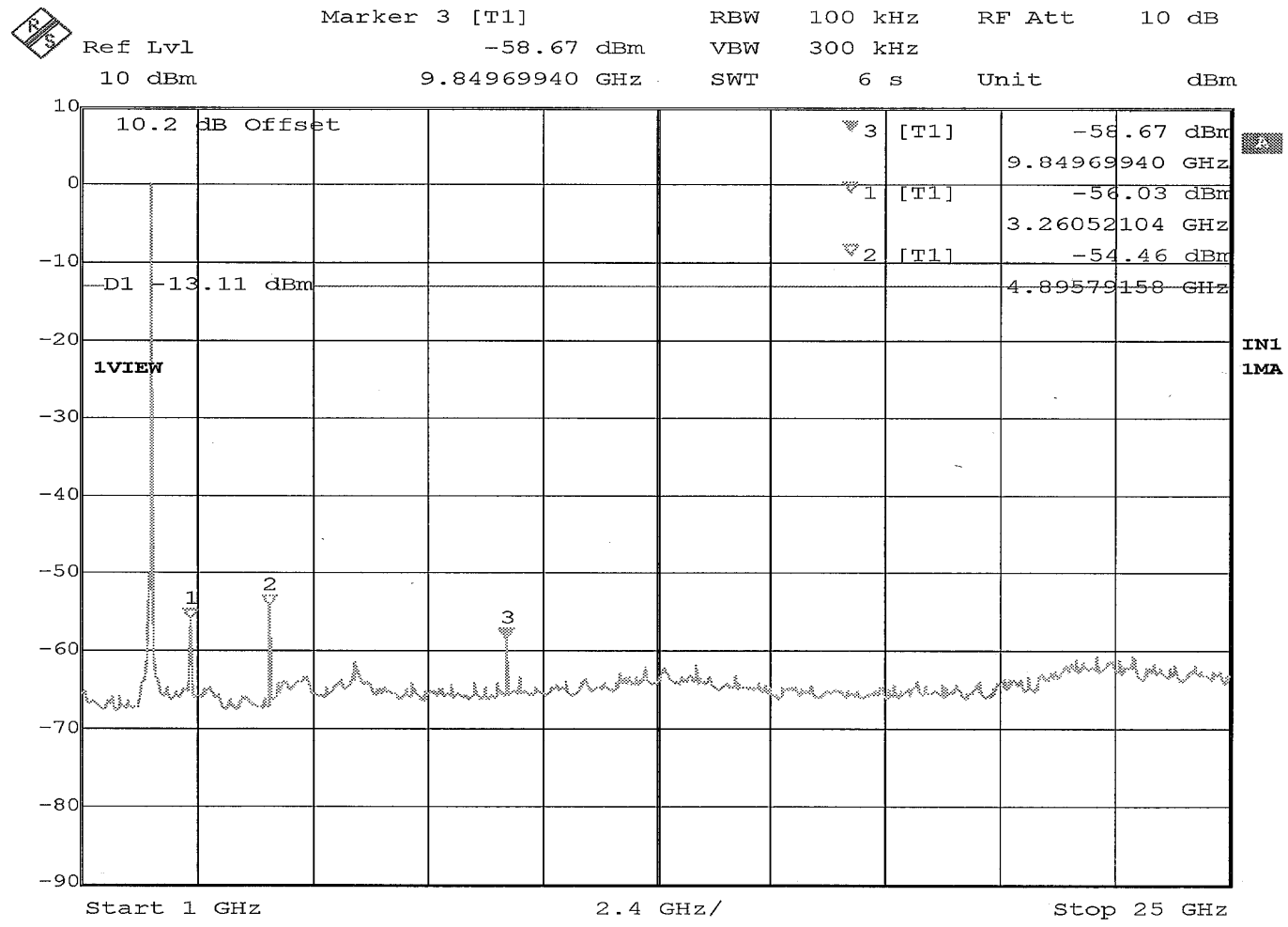
1GHz to 25GHz Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.11 dBm



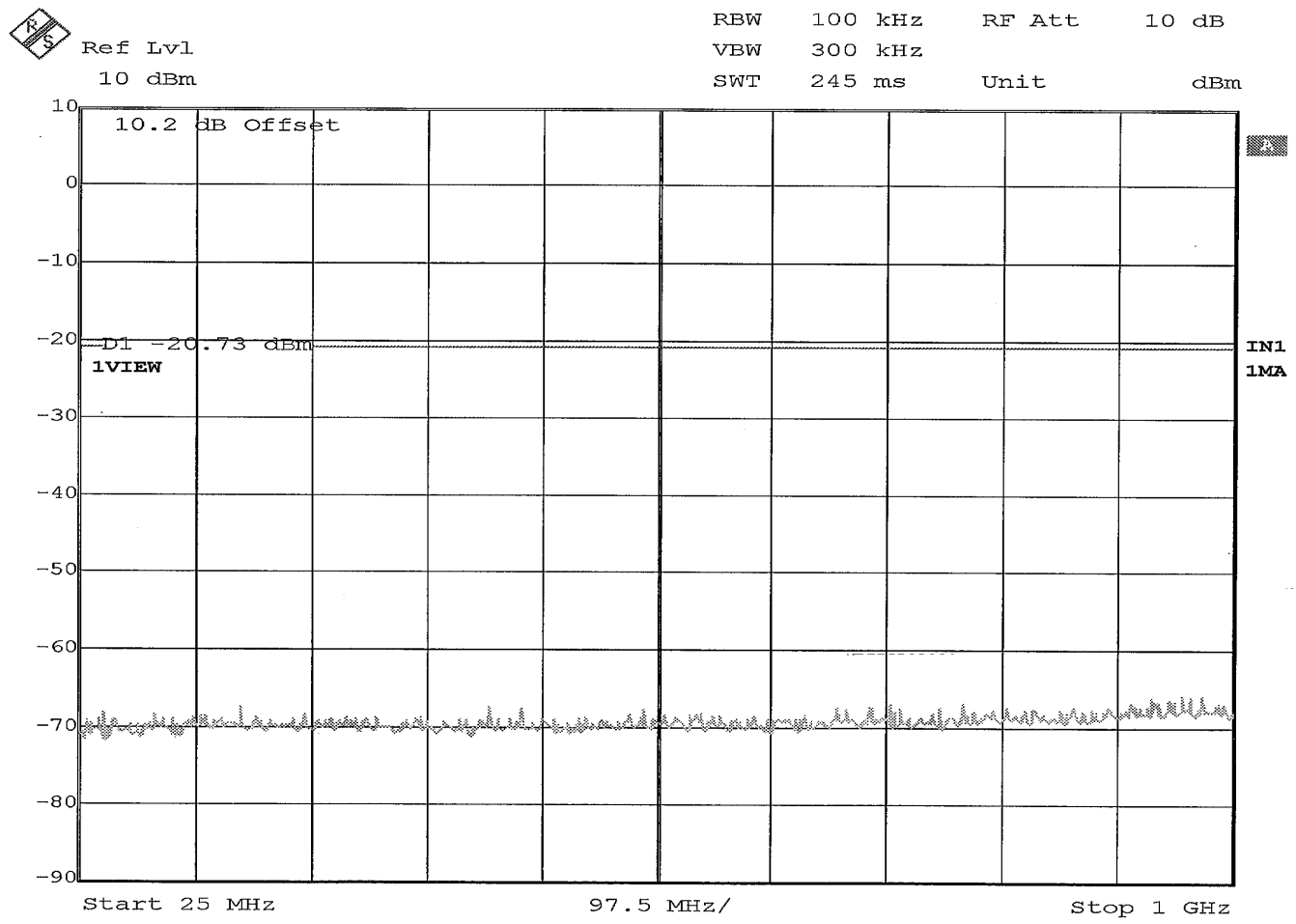
25MHz to 1GHz Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-1
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 20th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -13.11 dBm



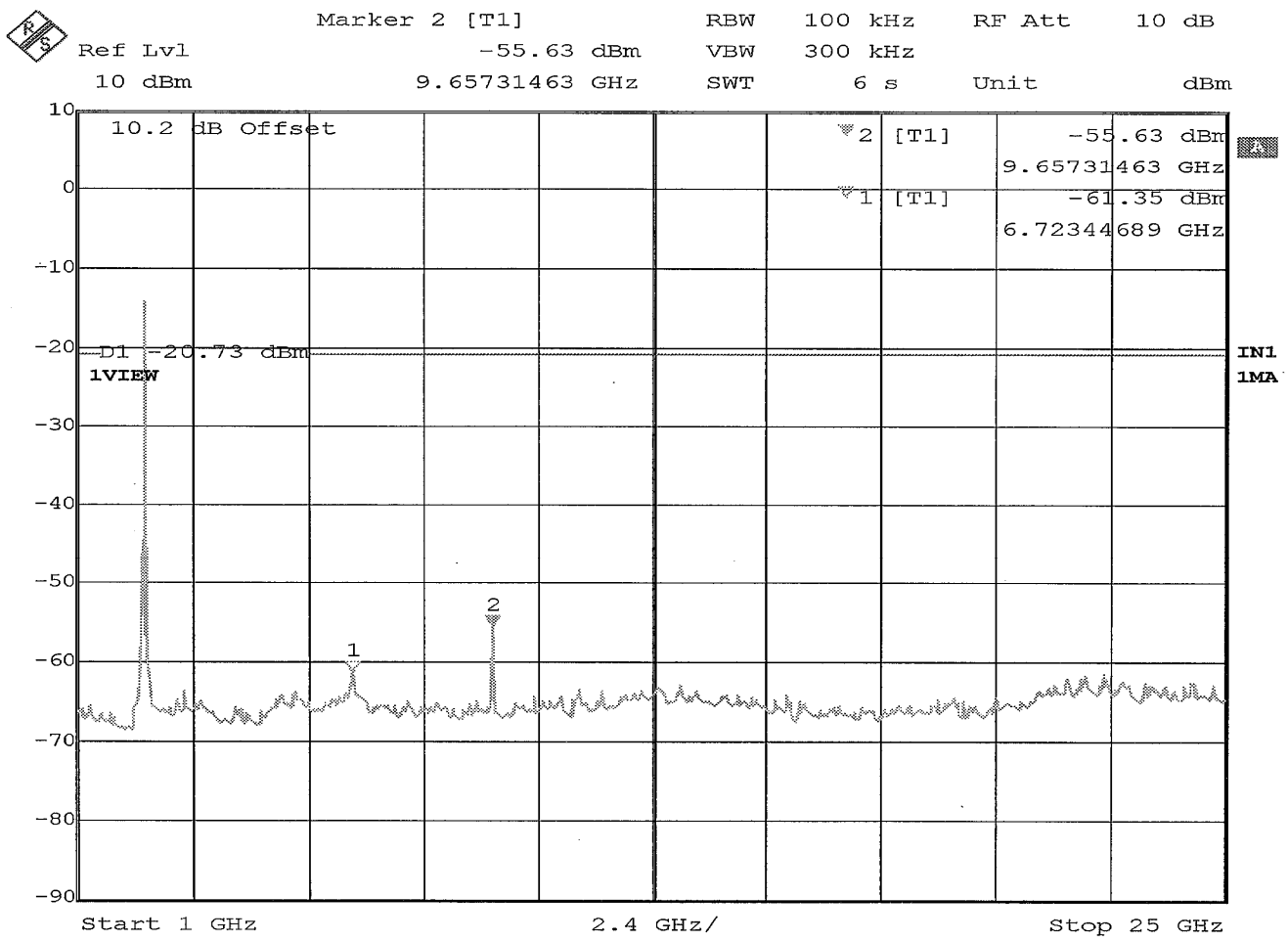
1GHz to 25GHz Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -20.73 dBm



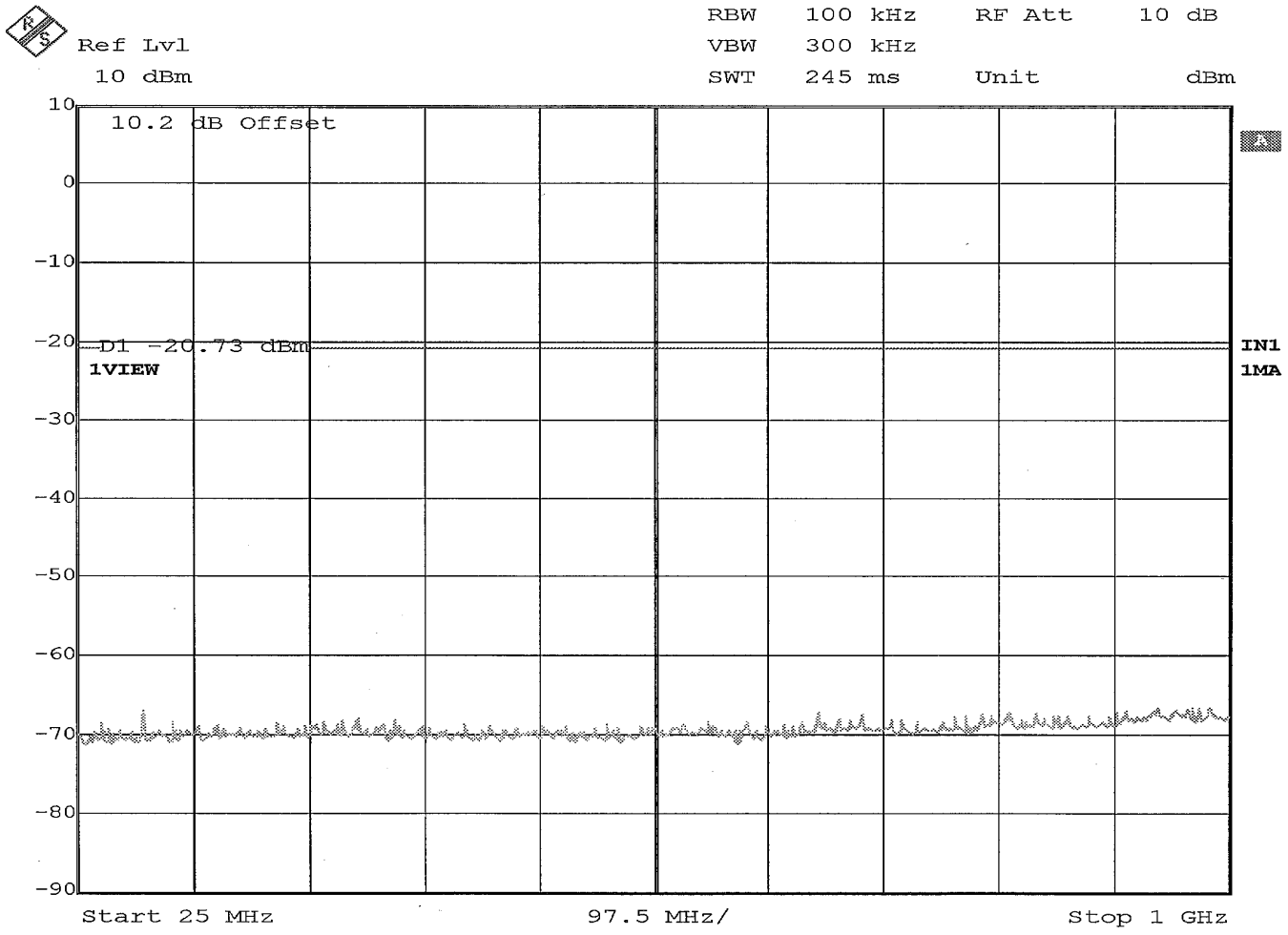
25MHz to 1GHz Port: Ch0 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -20.73 dBm



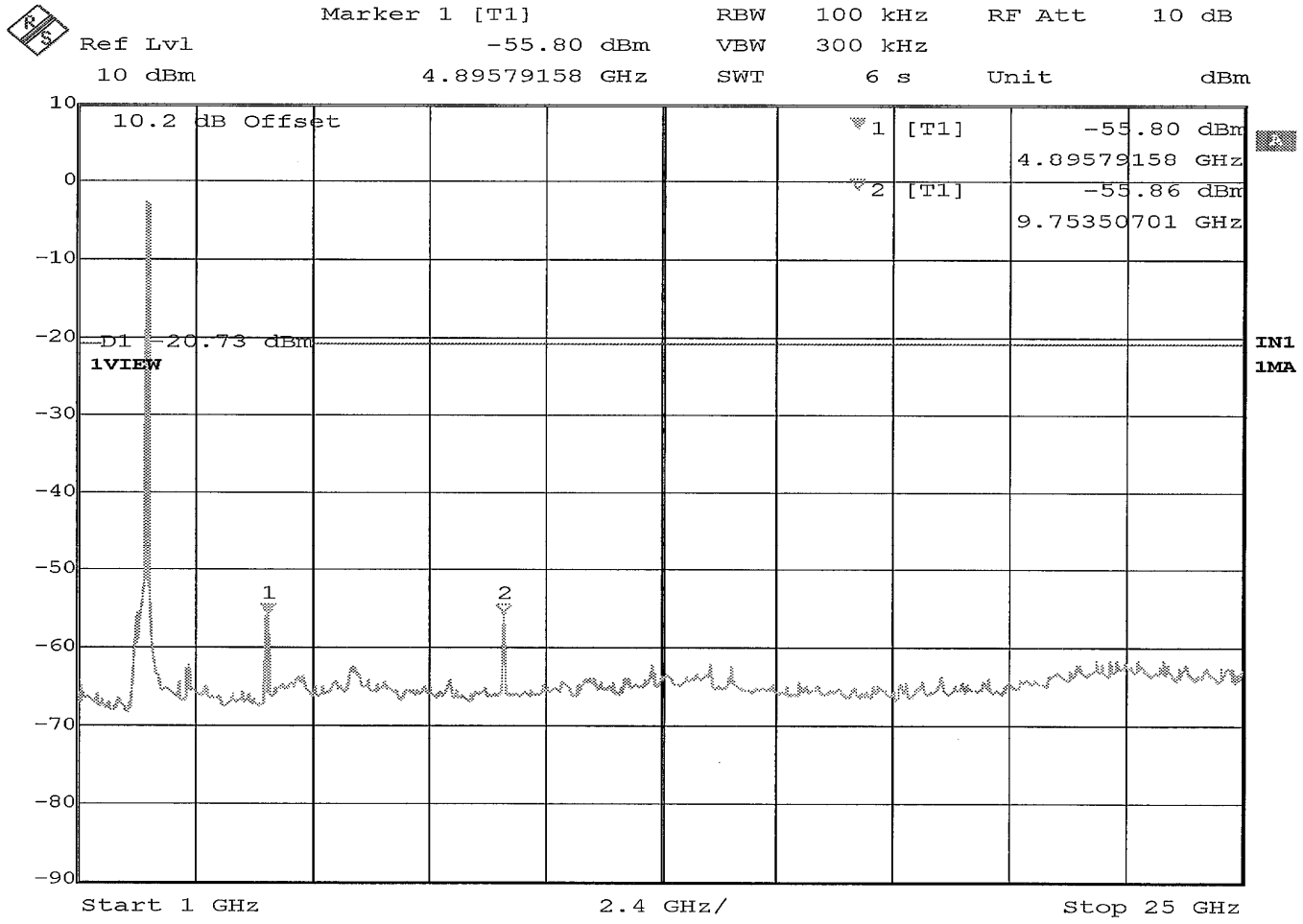
1GHz to 25GHz Port: Ch0 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -20.73 dBm



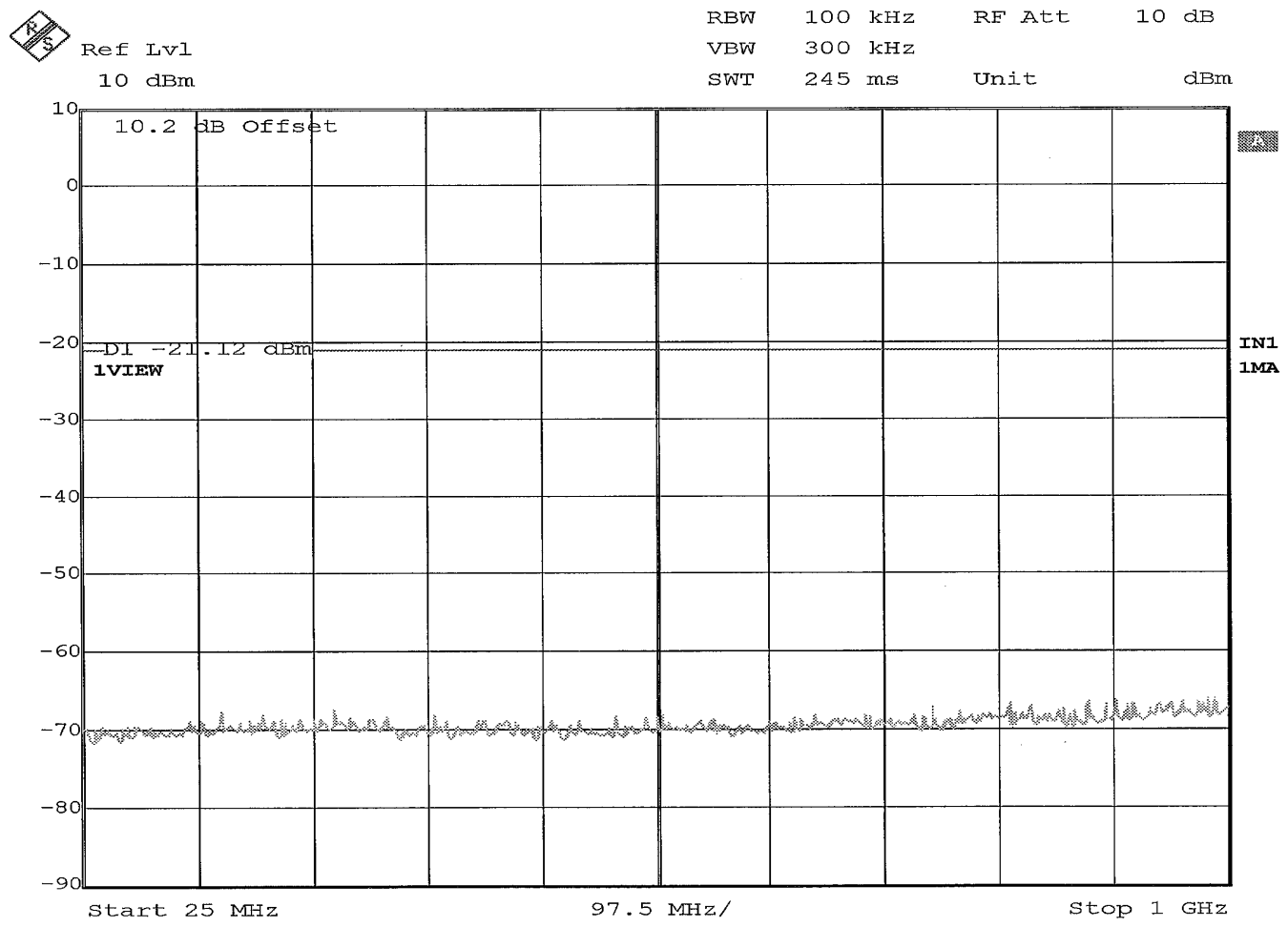
25MHz to 1GHz Port: Ch0 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -20.73 dBm



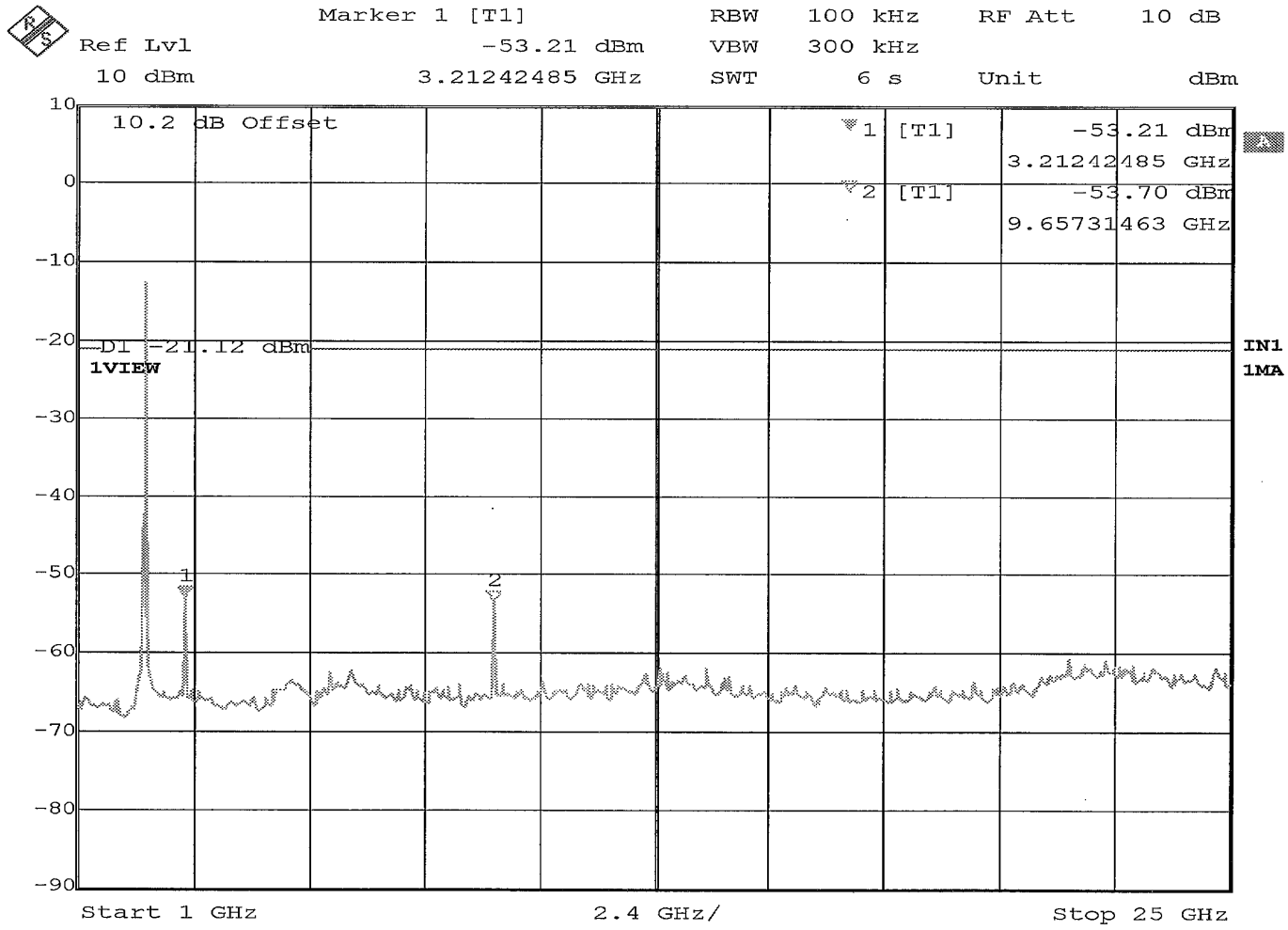
1GHz to 25GHz Port: Ch0 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -21.12 dBm



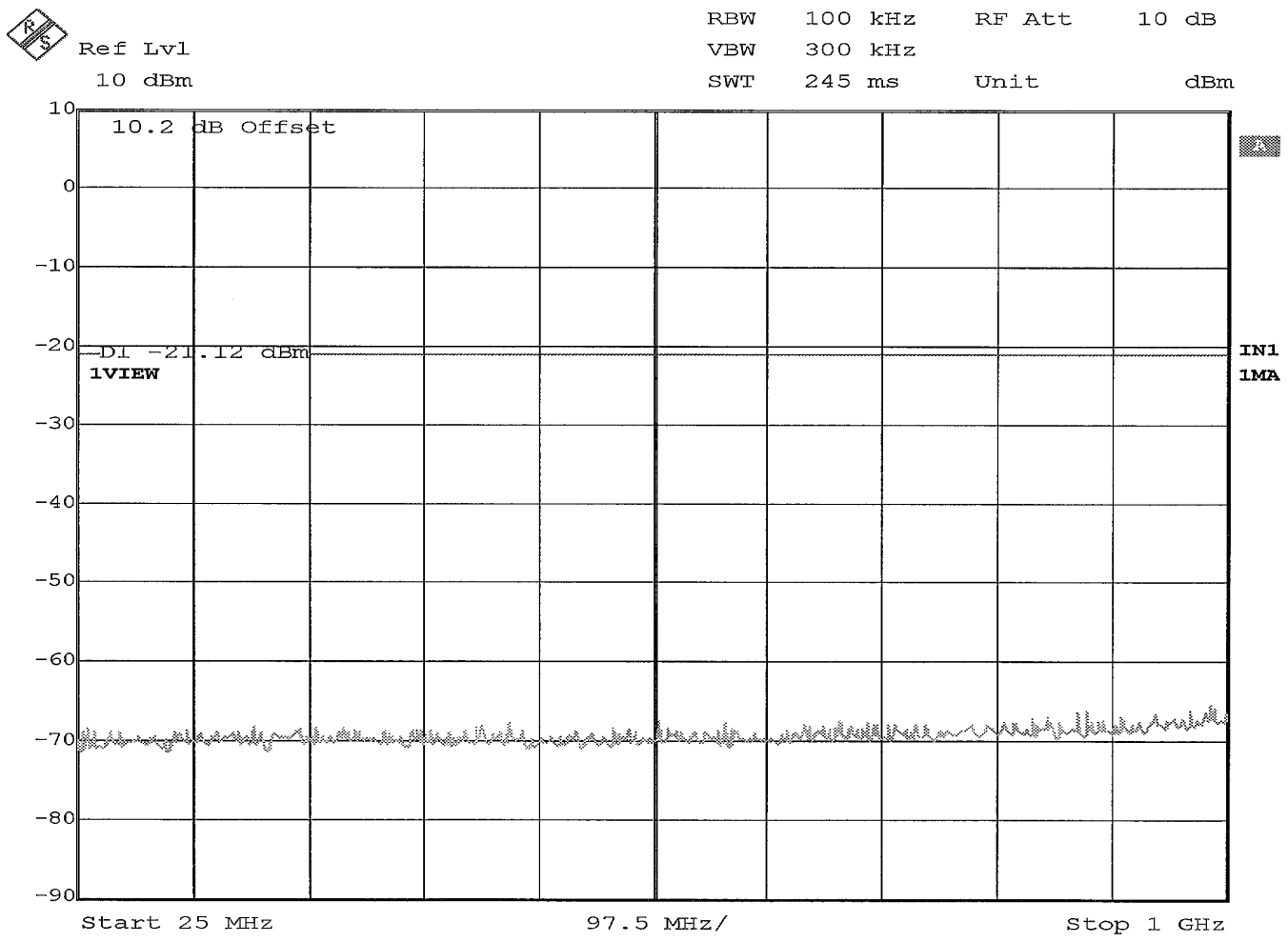
25MHz to 1GHz Port: Ch1 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -21.12 dBm



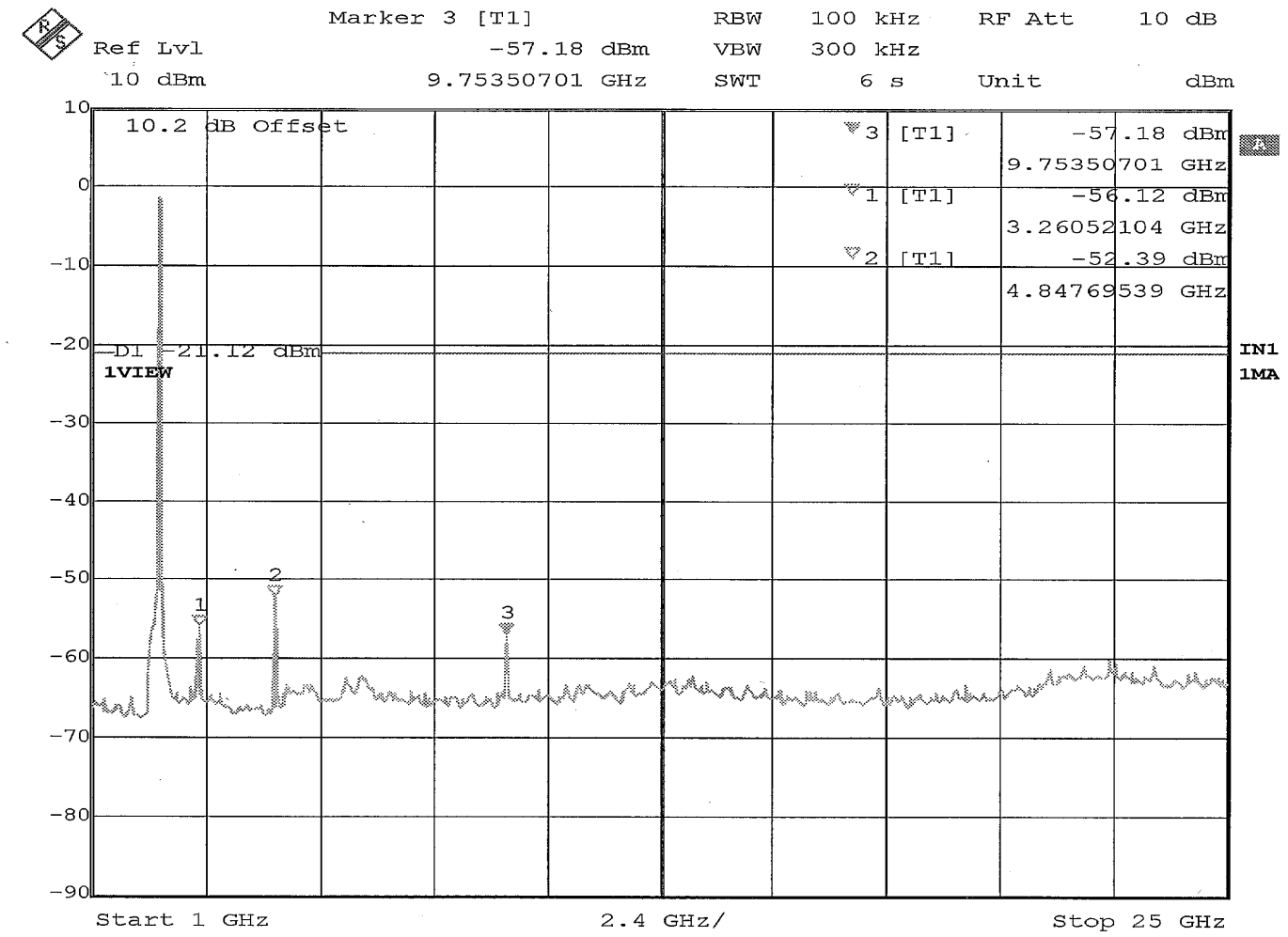
1GHz to 25GHz Port: Ch1 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -21.12 dBm



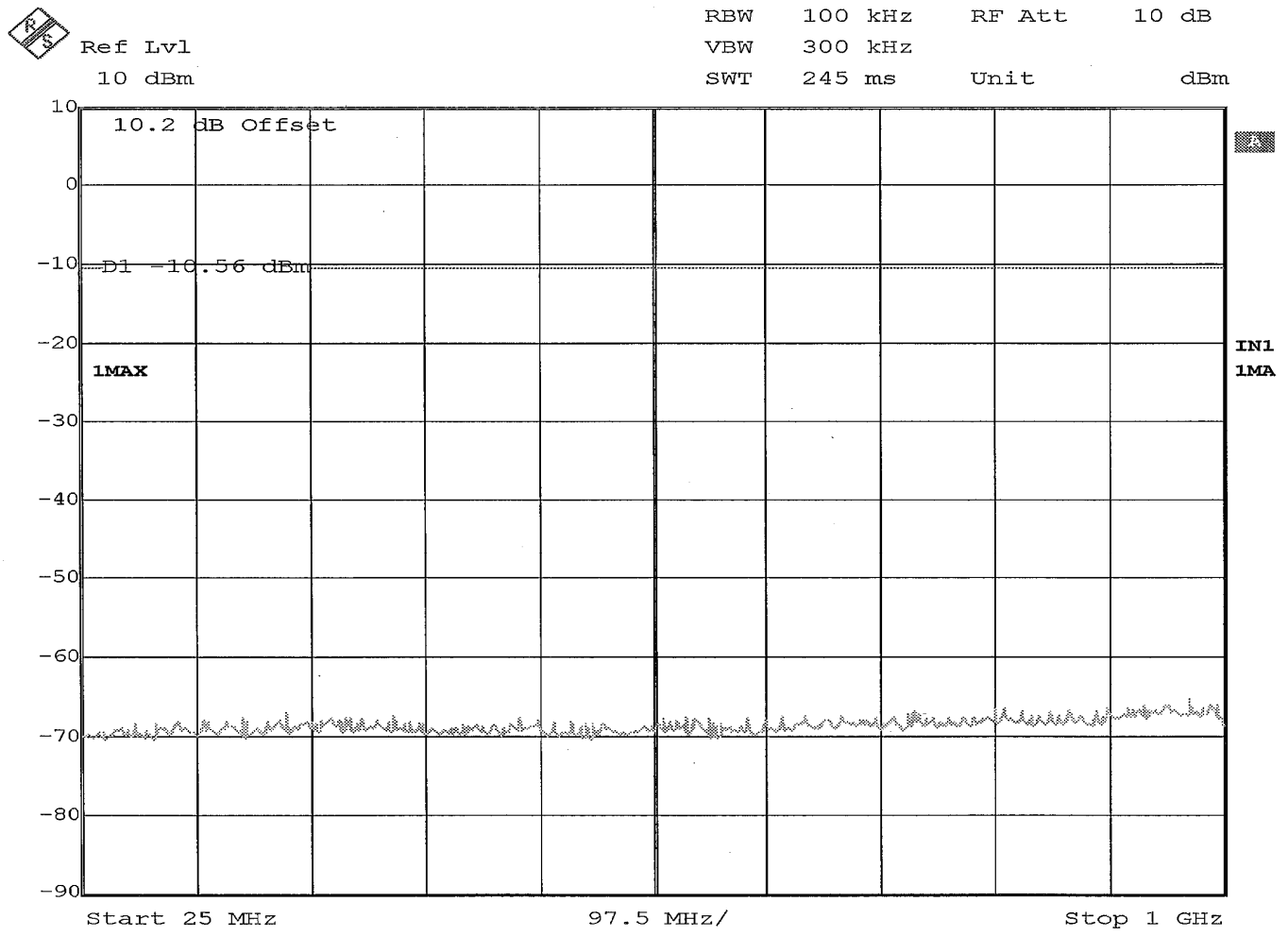
25MHz to 1GHz Port: Ch1 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -21.12 dBm



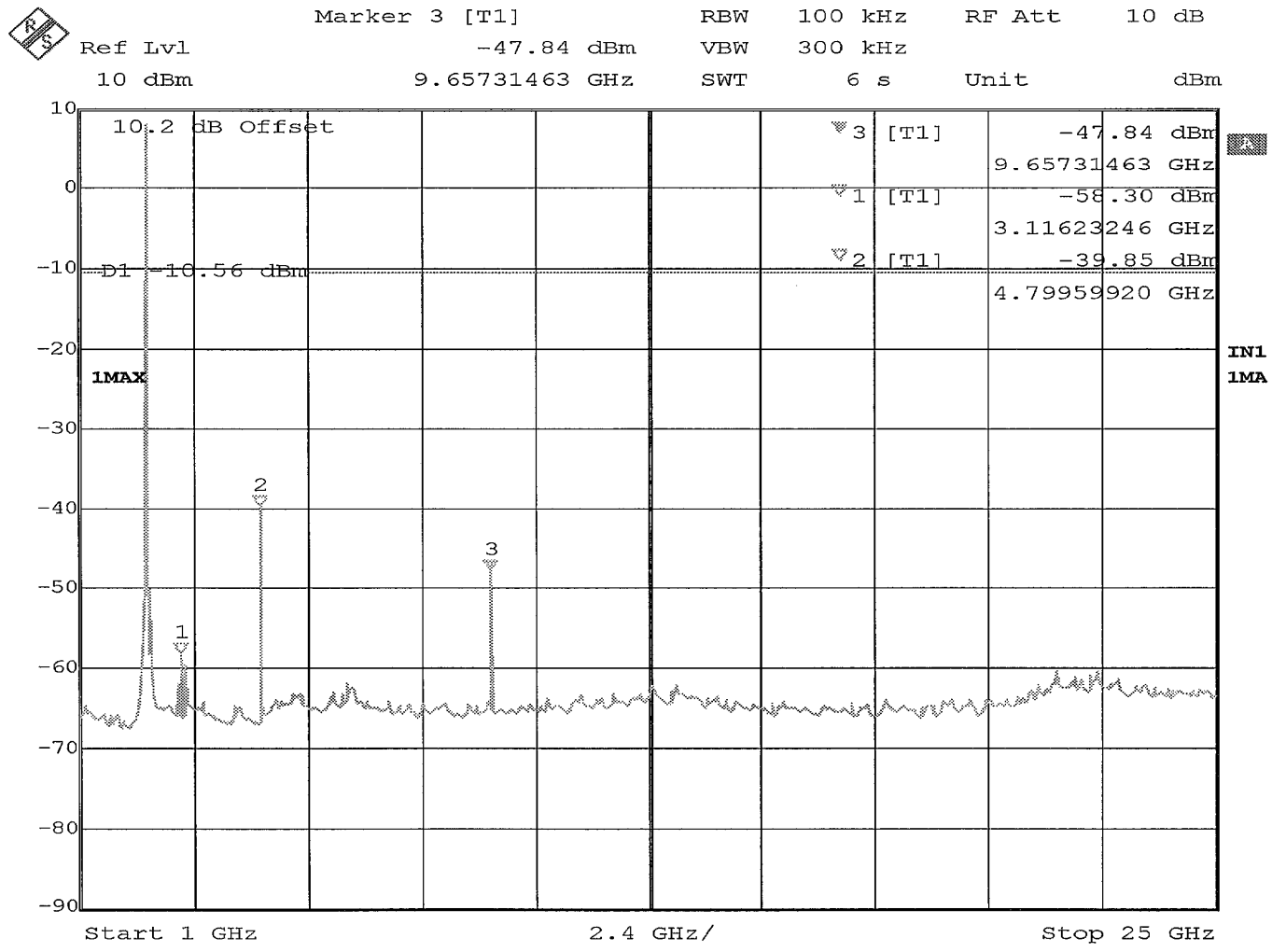
1GHz to 25GHz Port: Ch1 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -10.56 dBm



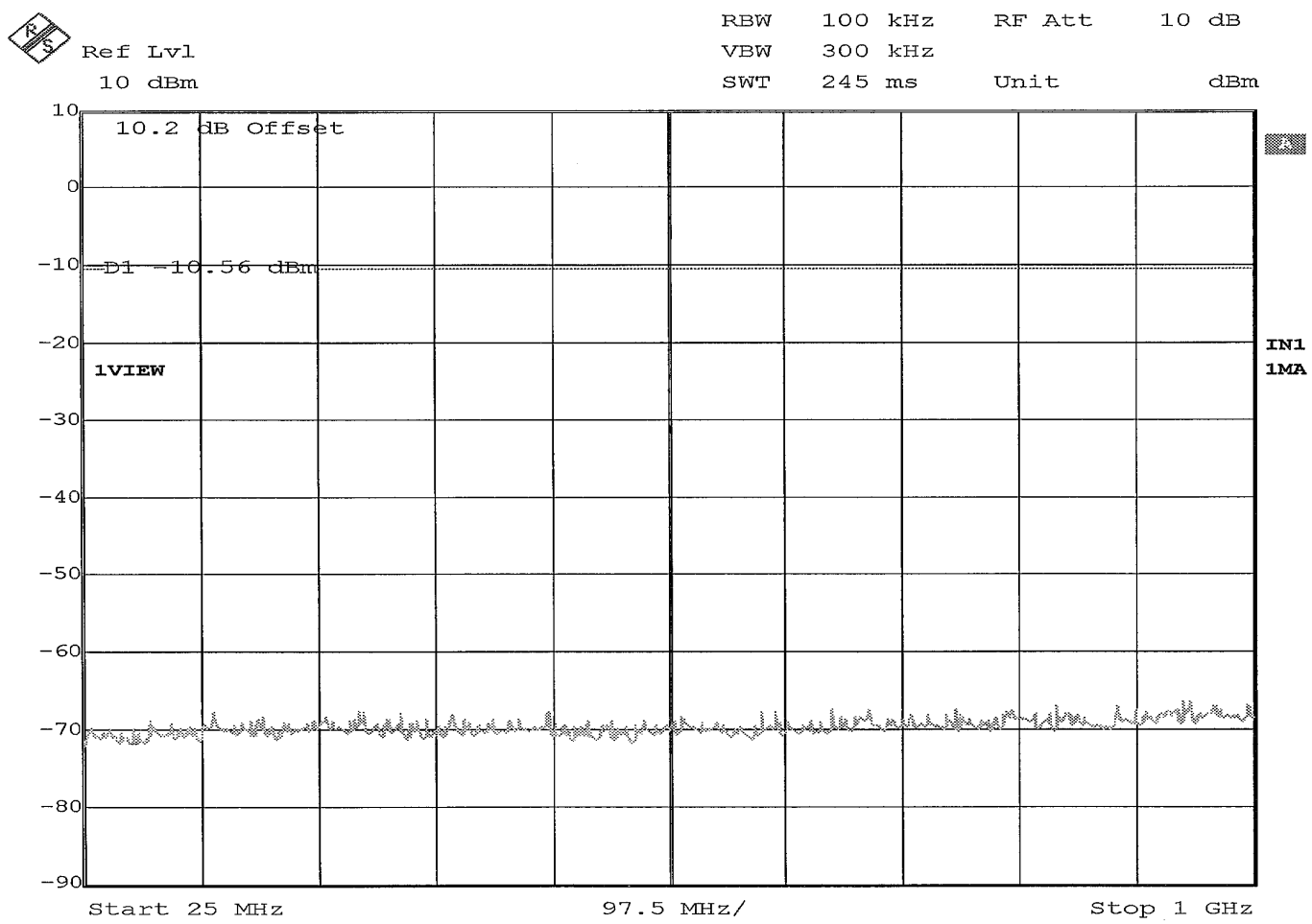
25MHz to 1GHz Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -10.56 dBm



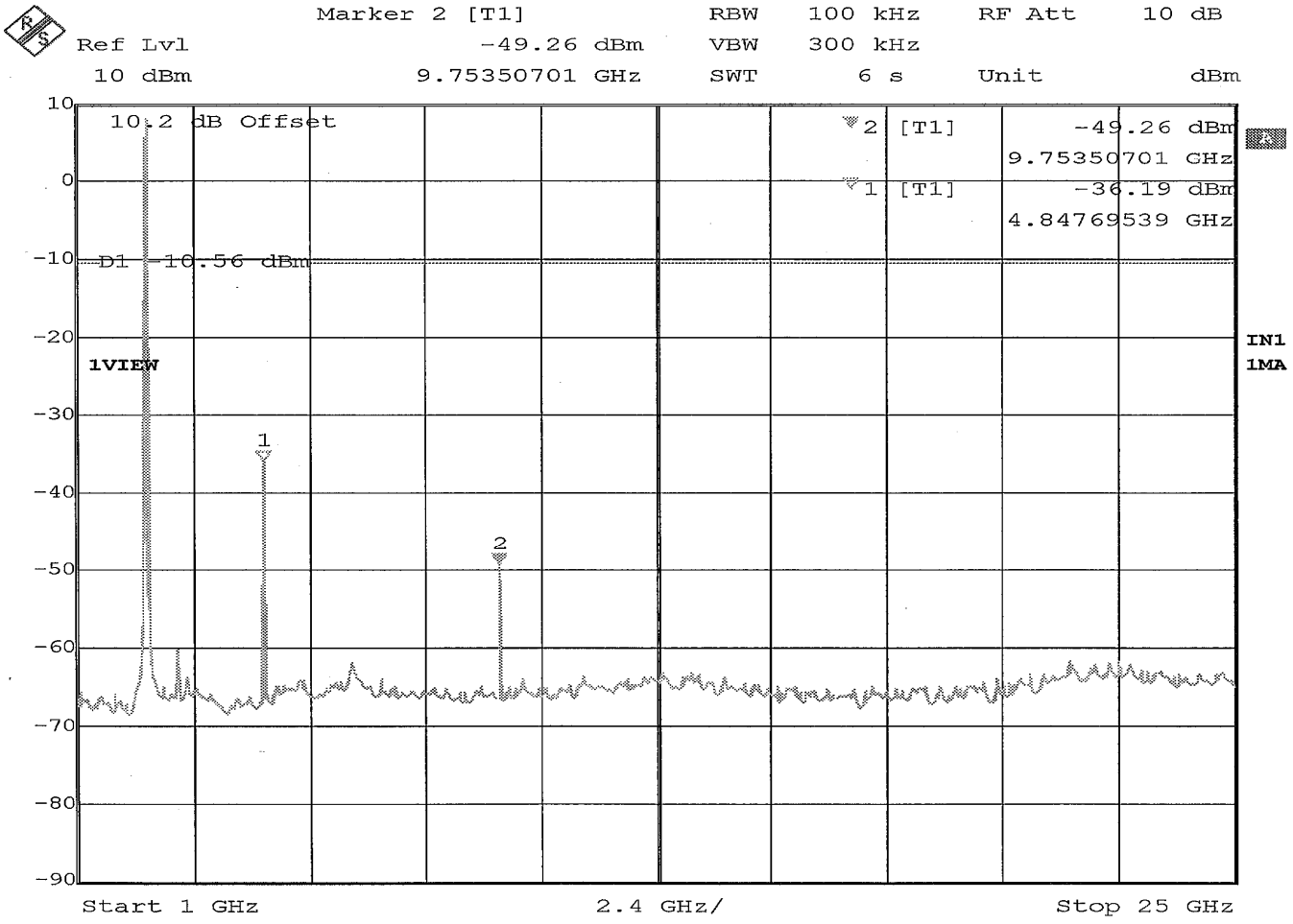
1GHz to 25GHz Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -10.56 dBm



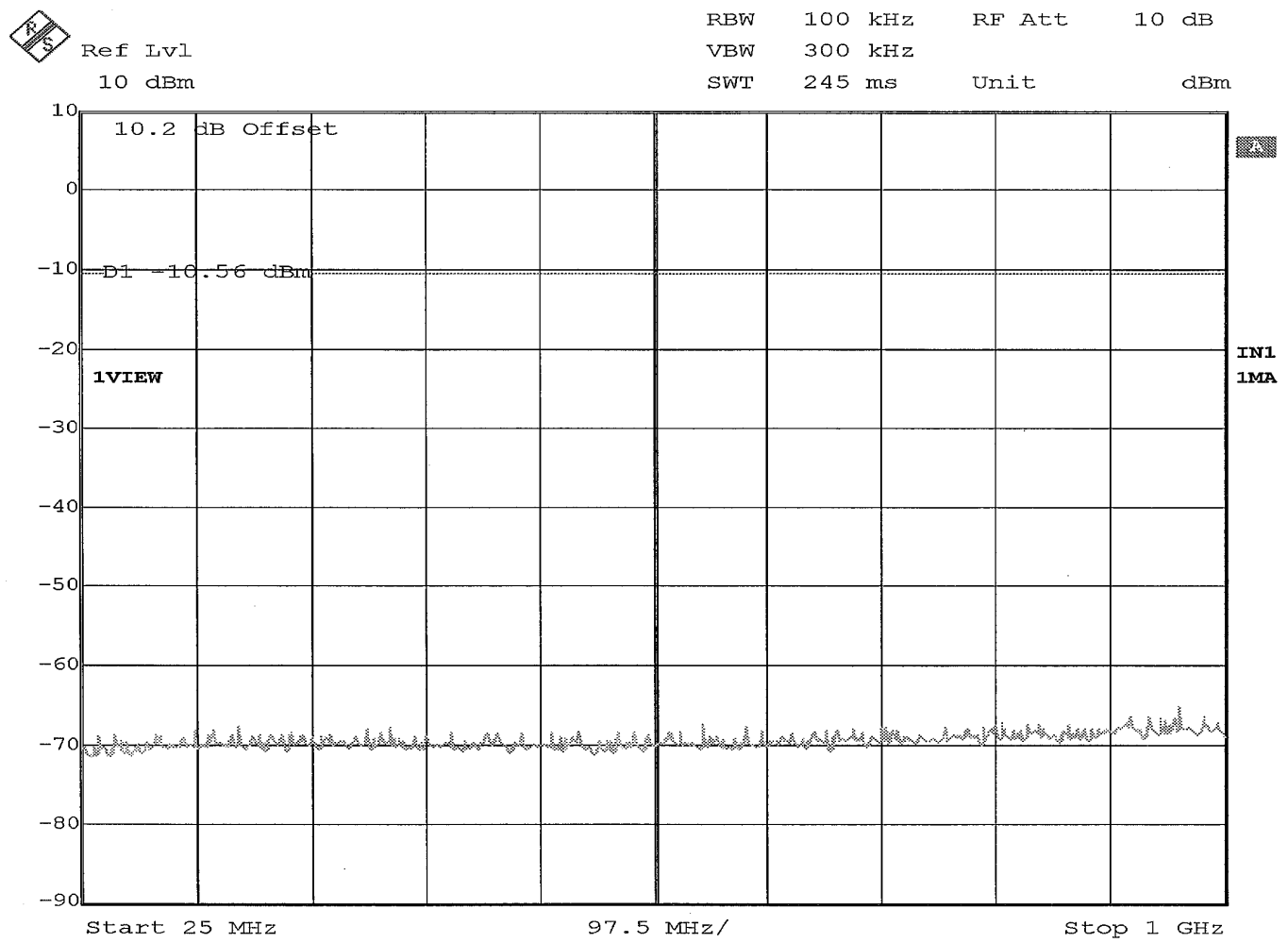
25MHz to 1GHz Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -10.56 dBm



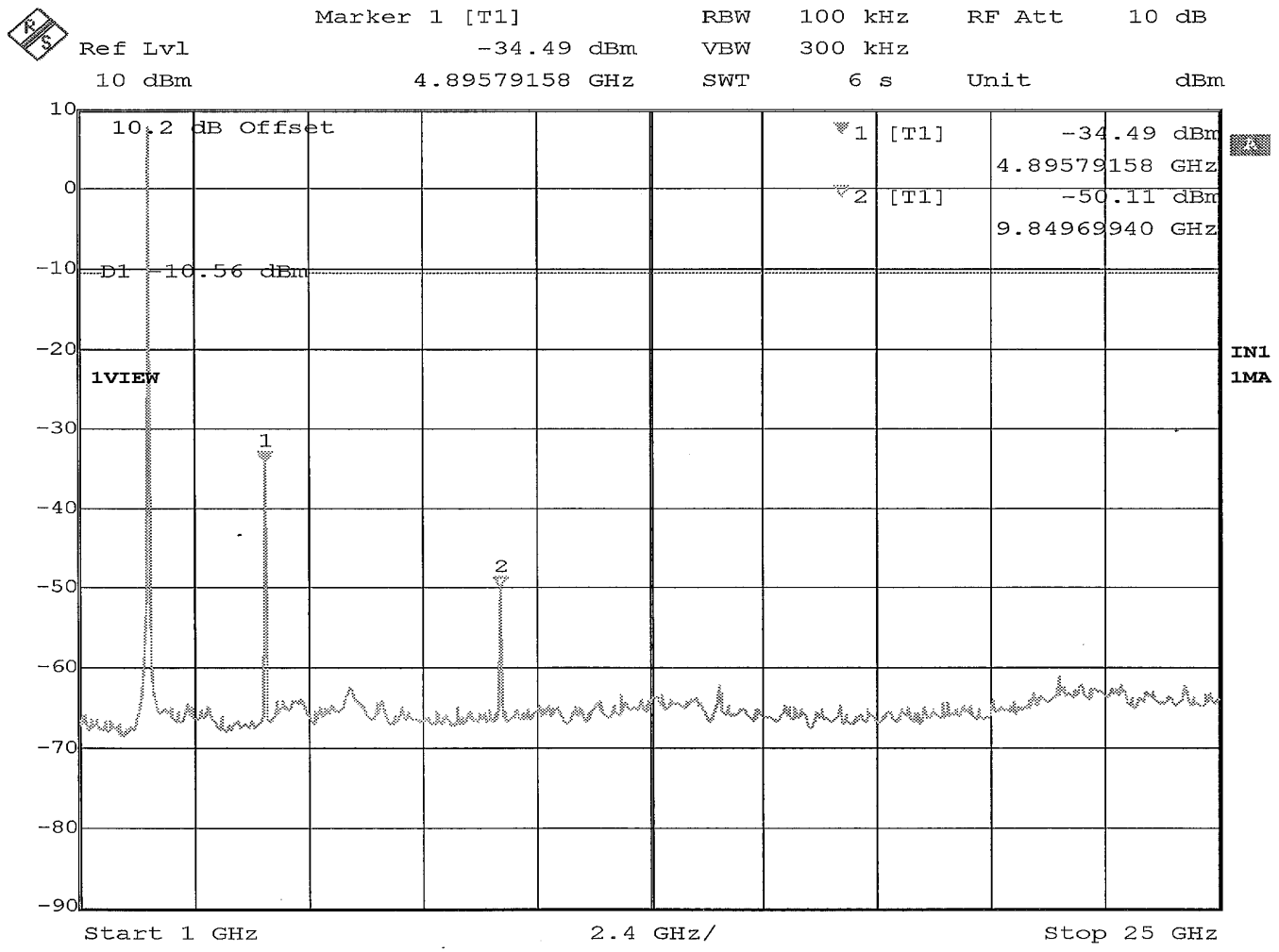
1GHz to 25GHz Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -10.56 dBm



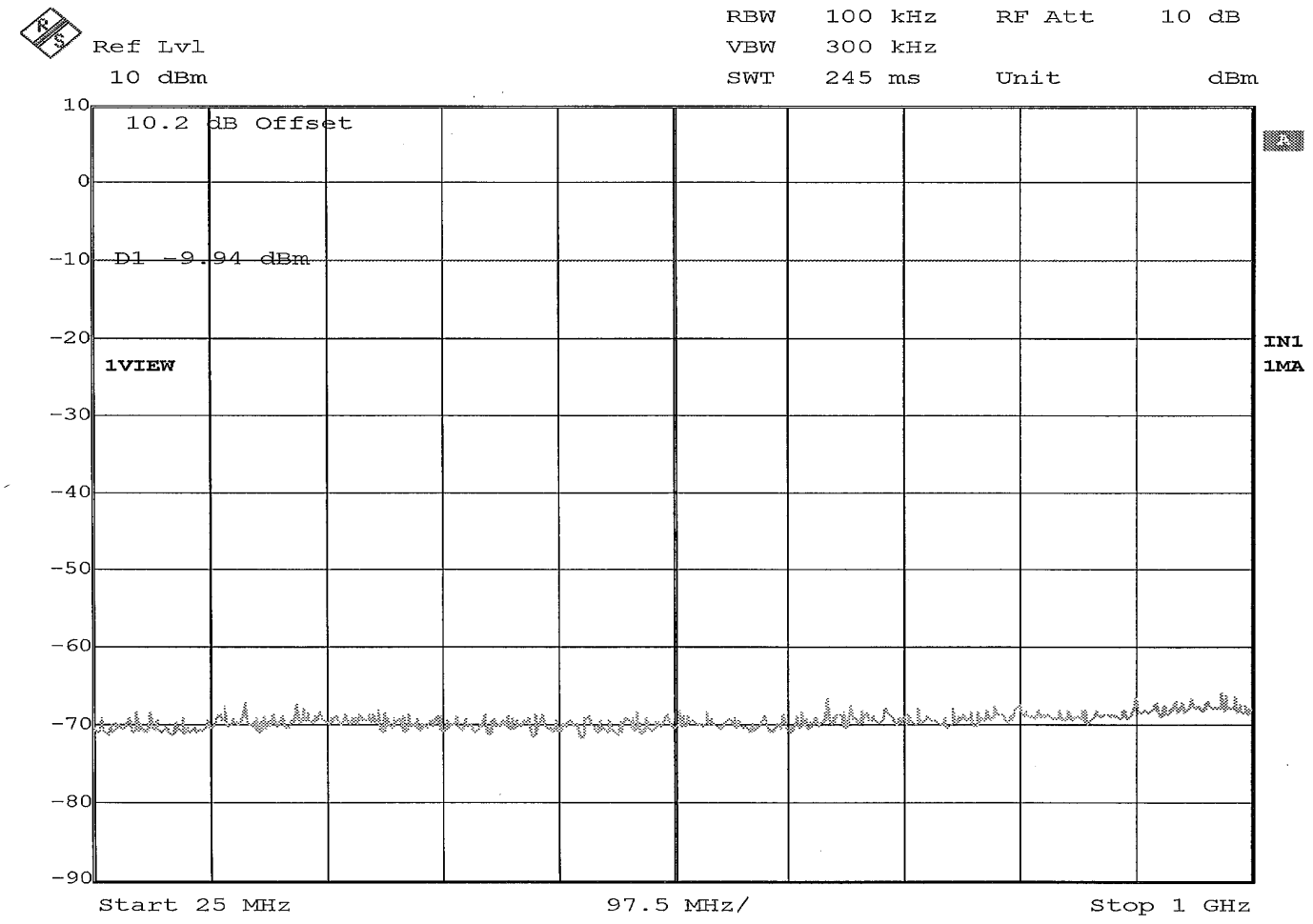
25MHz to 1GHz Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-1
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 20th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



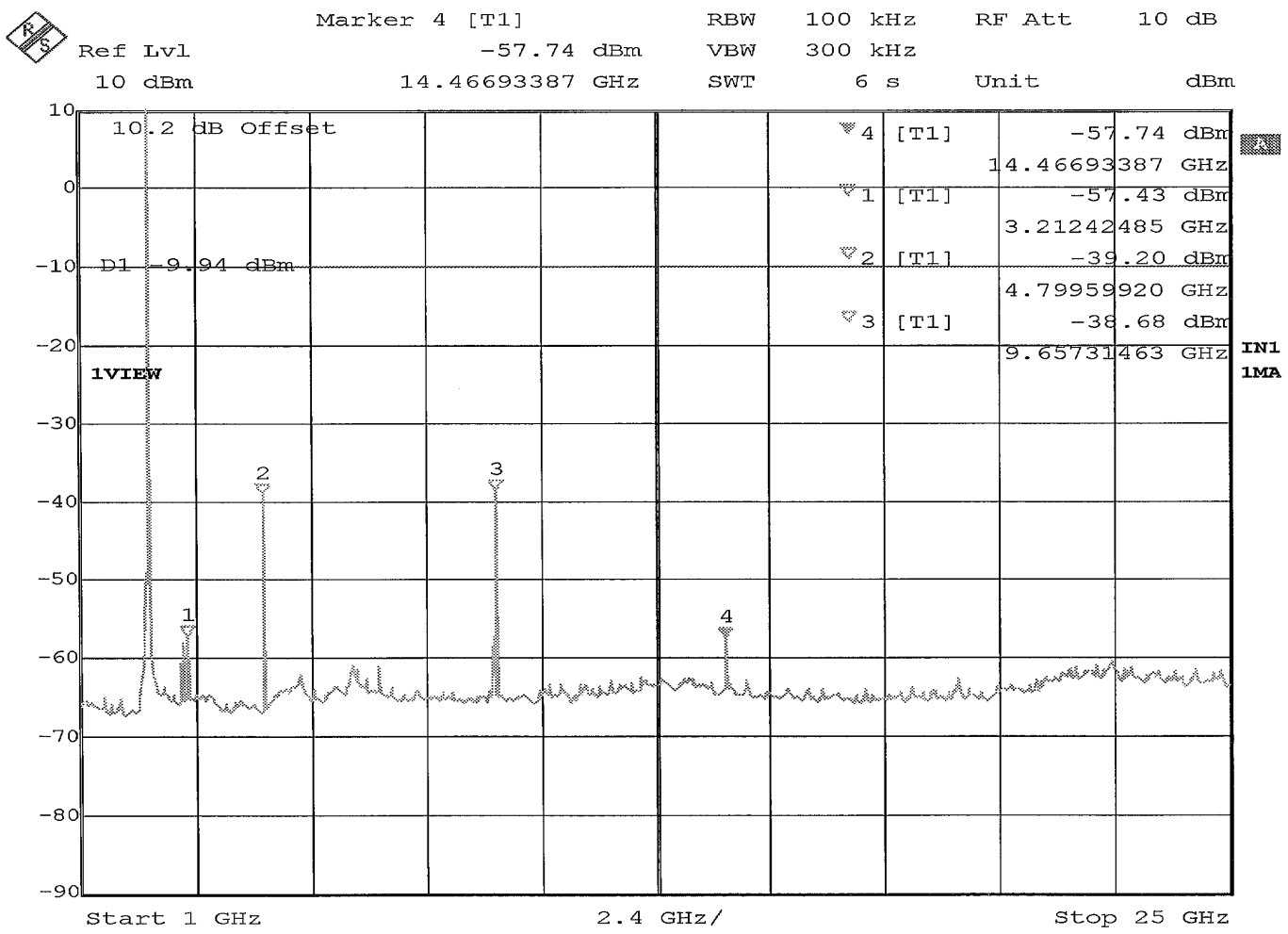
1GHz to 25GHz Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



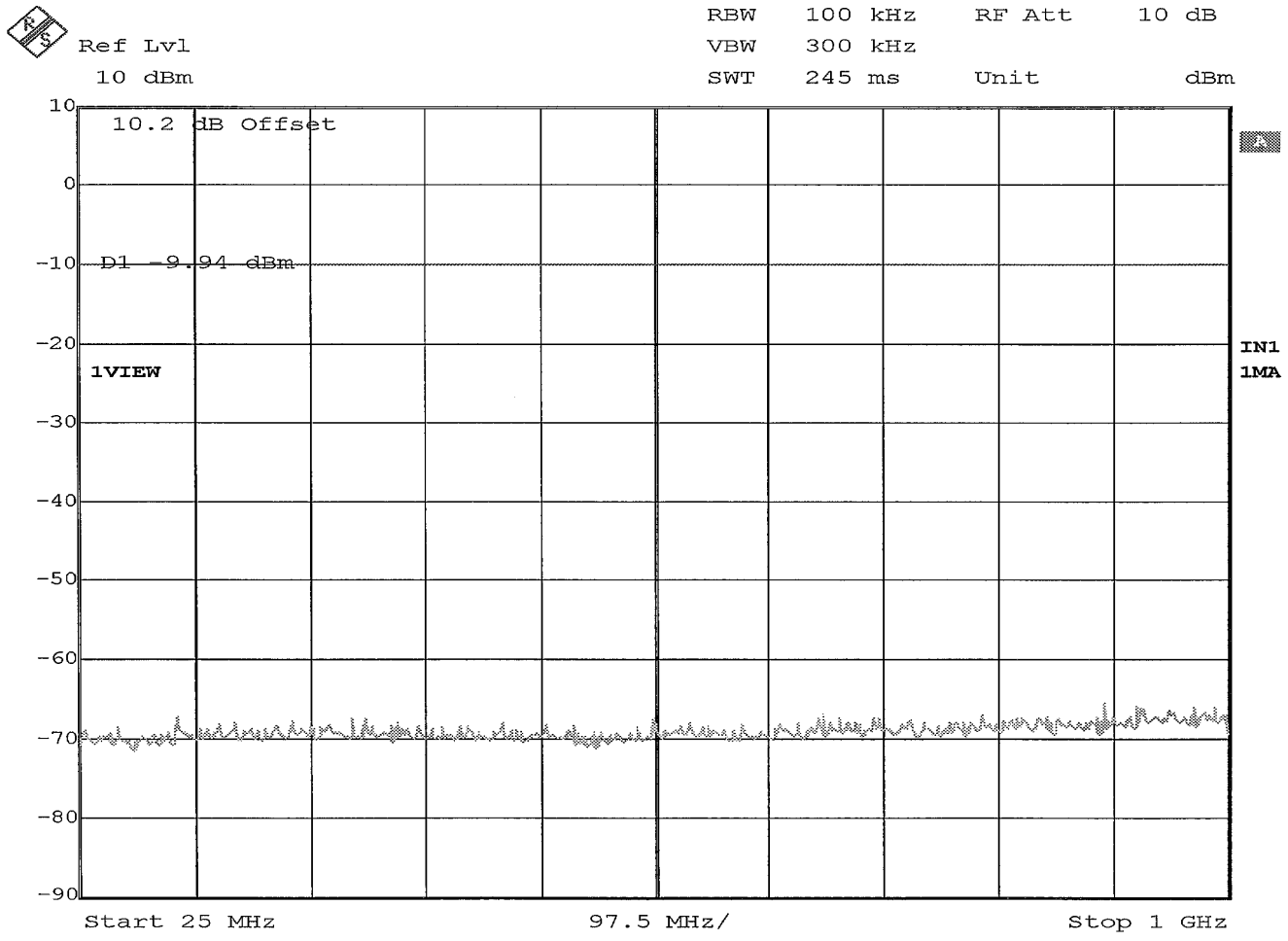
25MHz to 1GHz Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



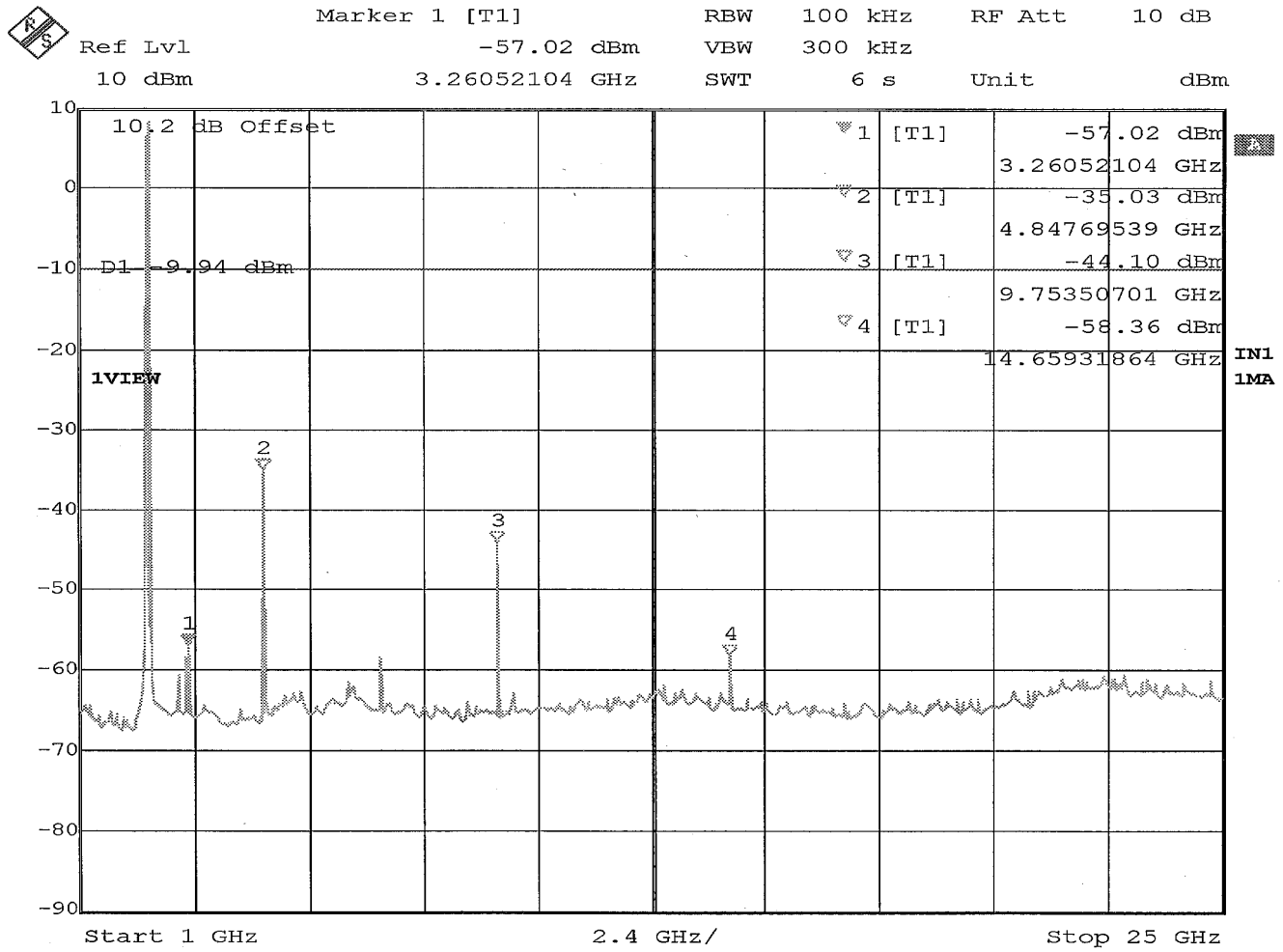
1GHz to 25GHz Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



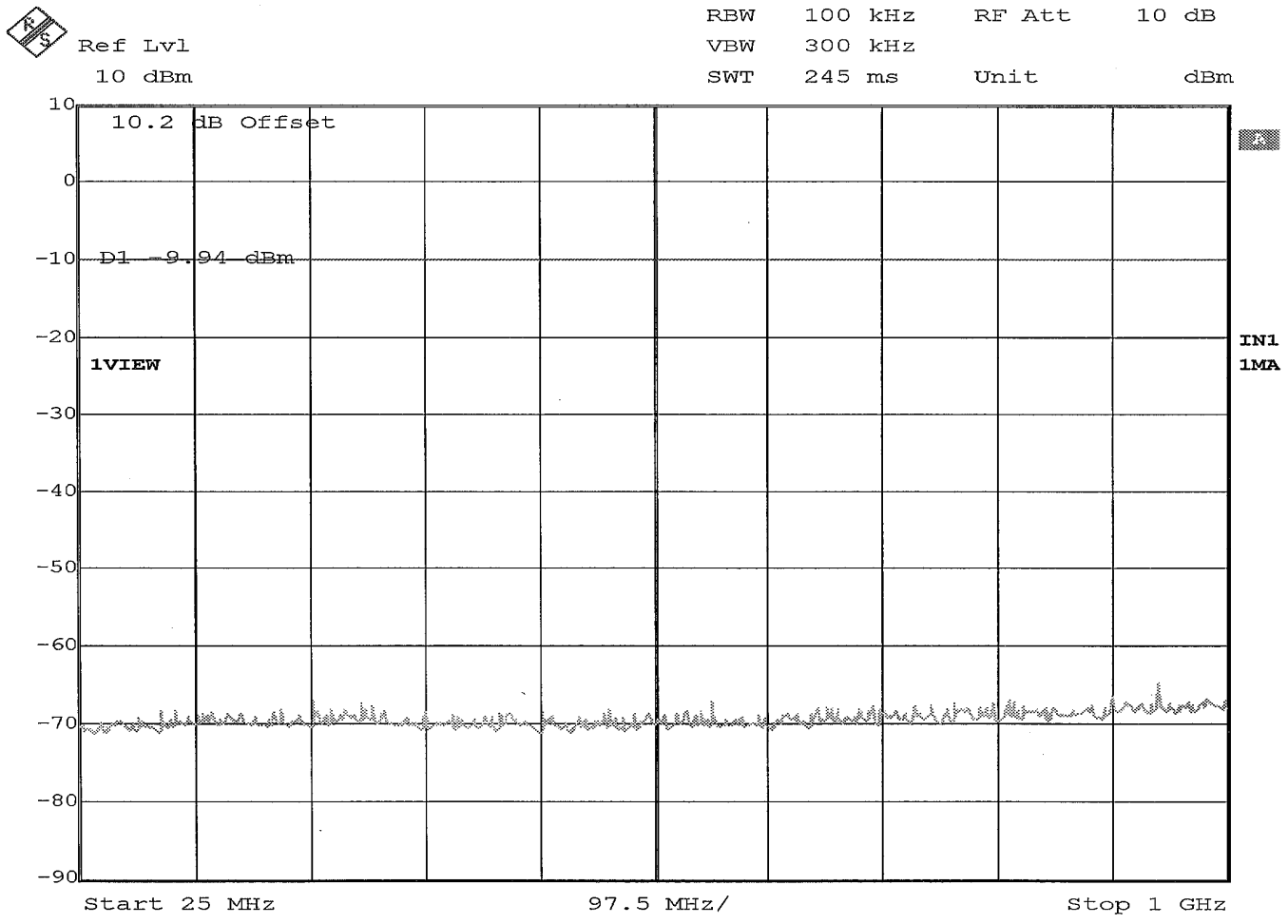
25MHz to 1GHz Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



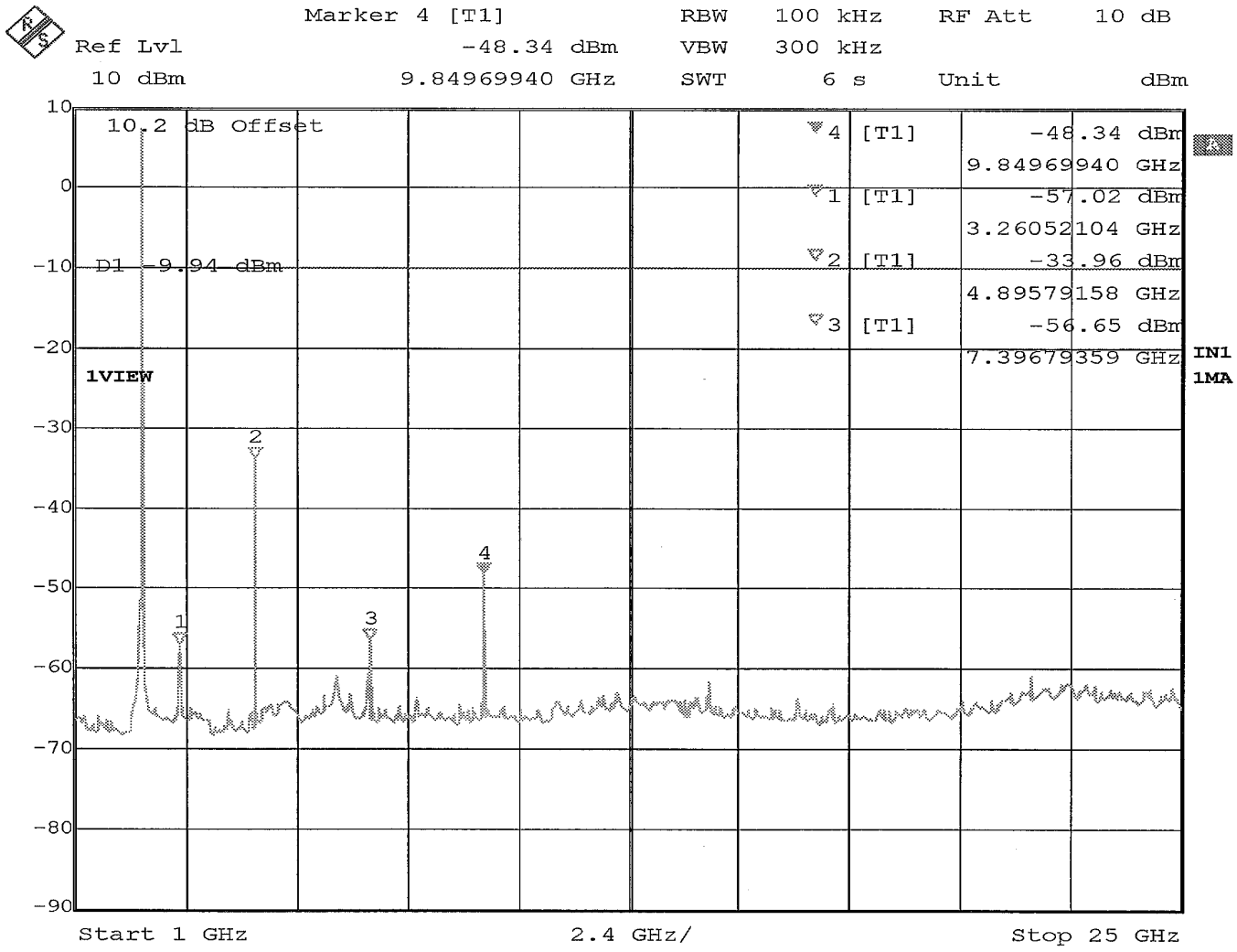
1GHz to 25GHz Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 29th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



25MHz to 1GHz Port: Ch1 Modulation: CCK

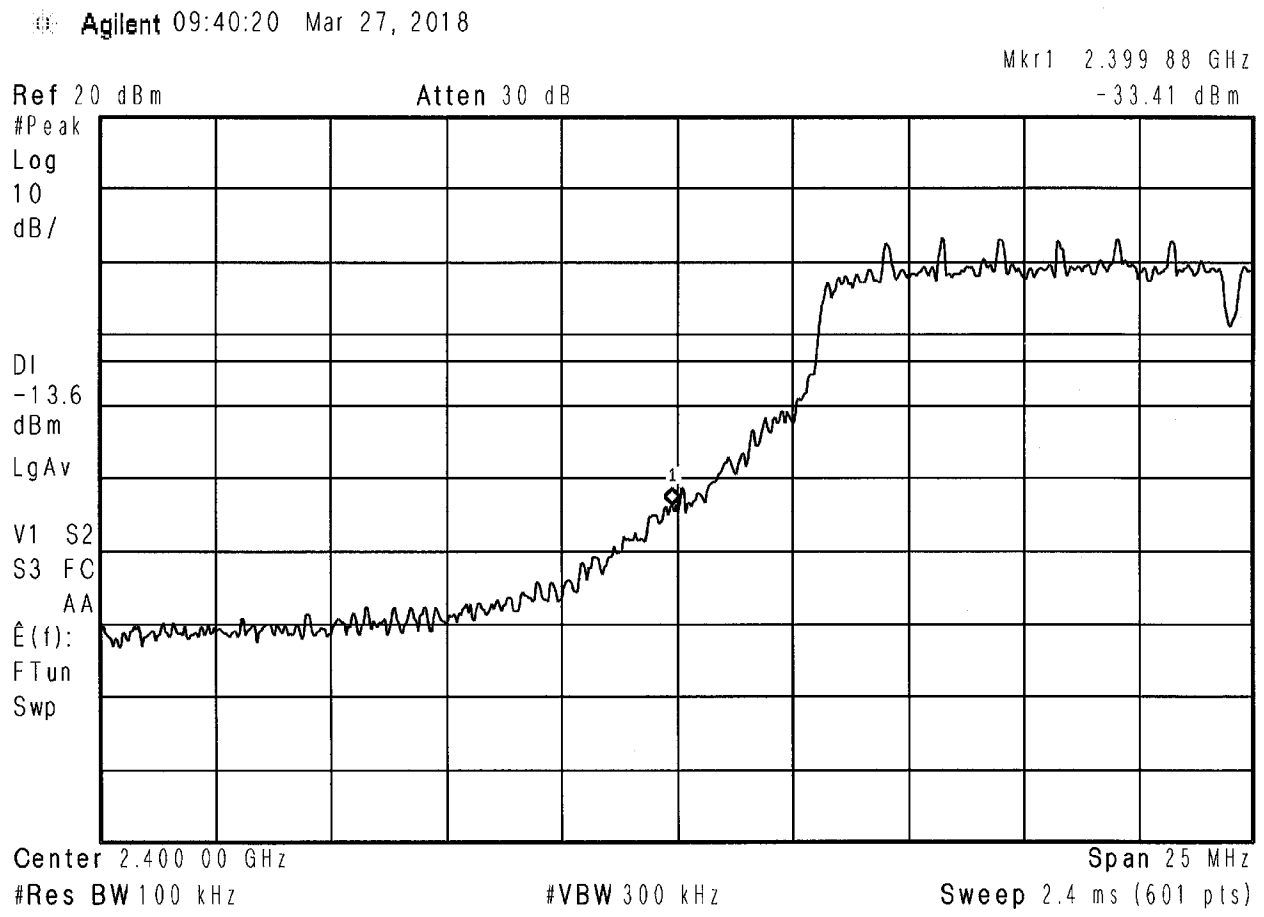
EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-1
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	December 20th, 2017
Temp/ Relative Humidity:	20.8 °C / 19.6 %
Notes:	Limit: -9.94 dBm



1GHz to 25GHz Port: Ch1 Modulation: CCK

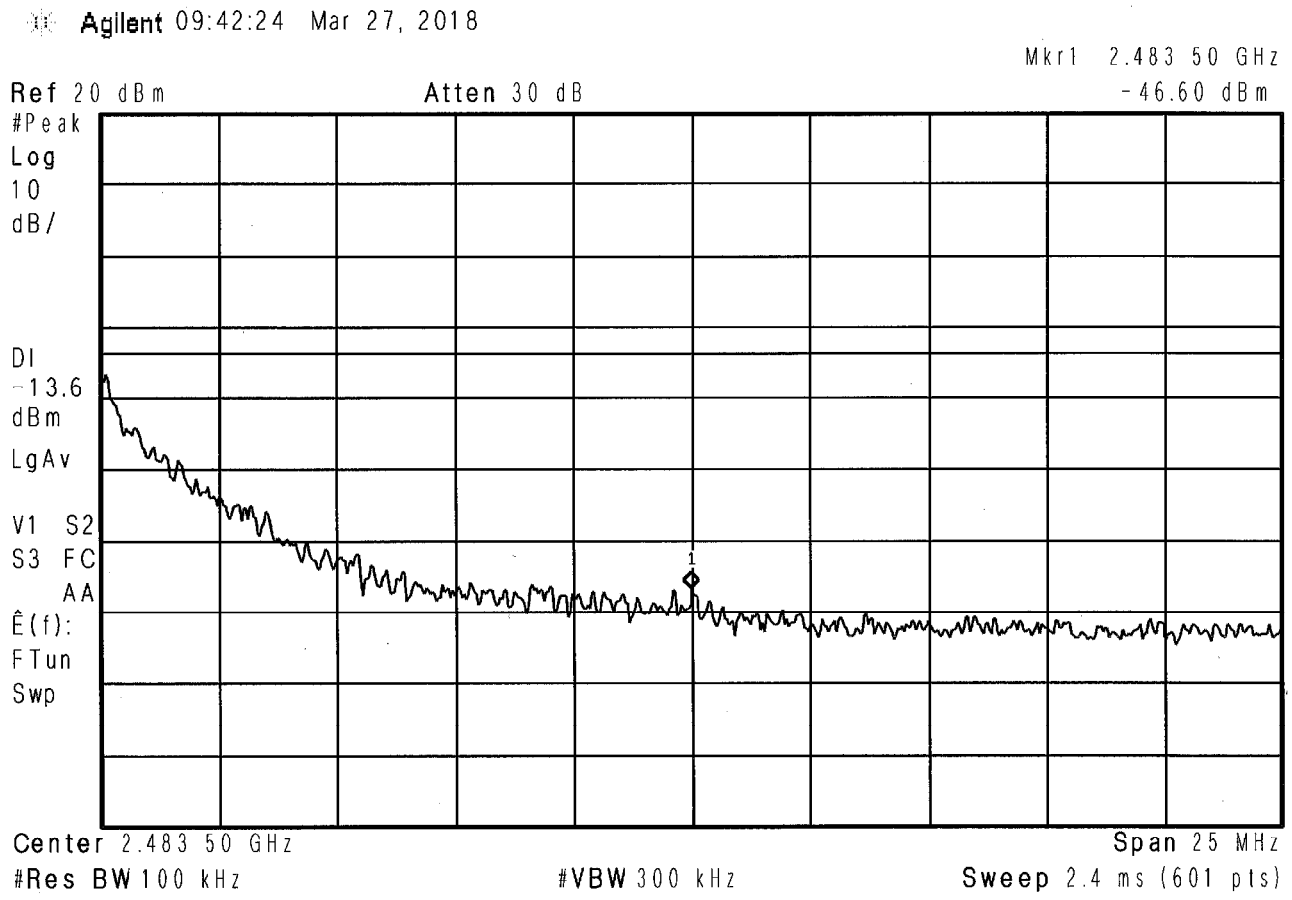
Band Edge
Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-13.65 dBm



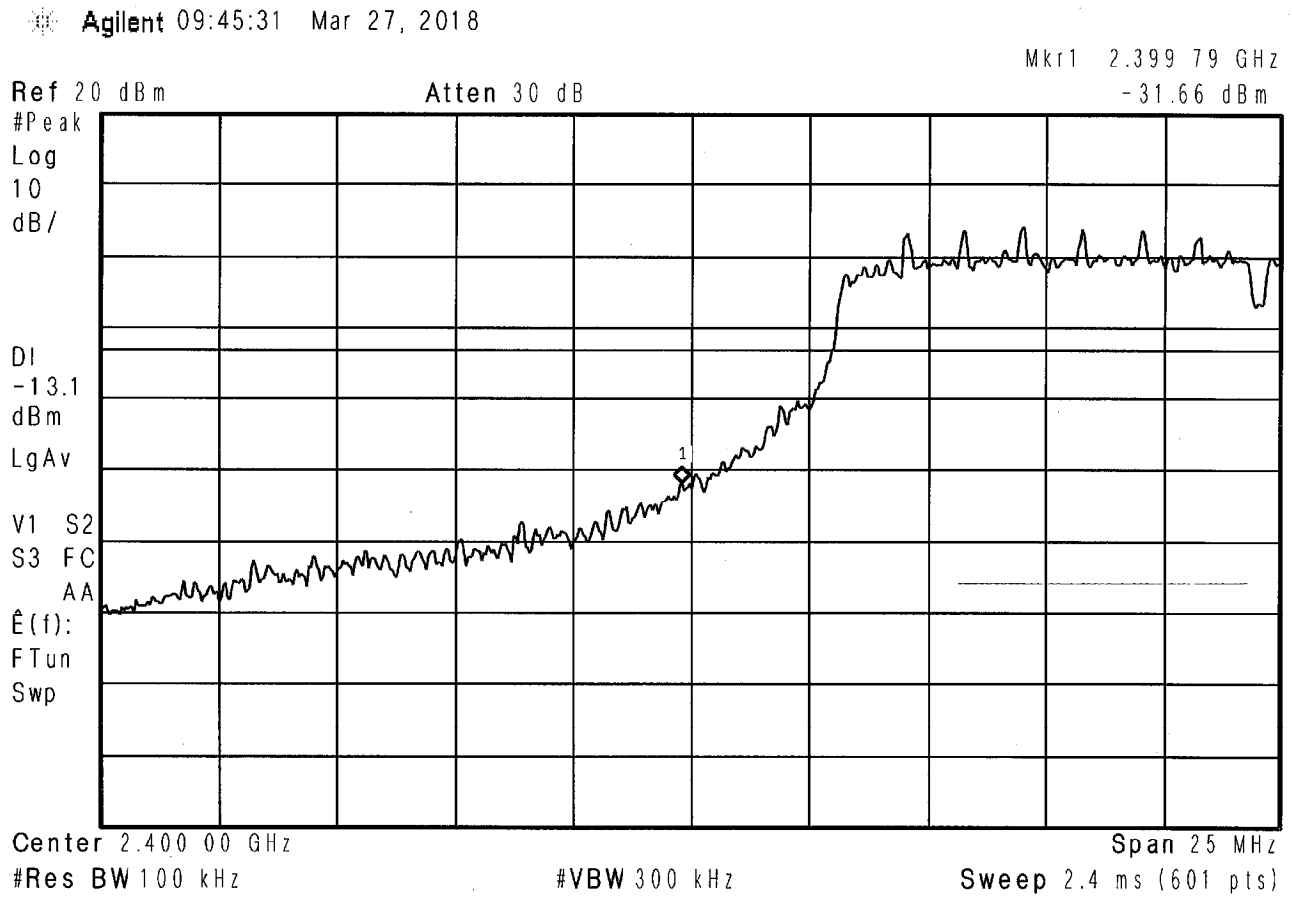
Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-13.65 dBm



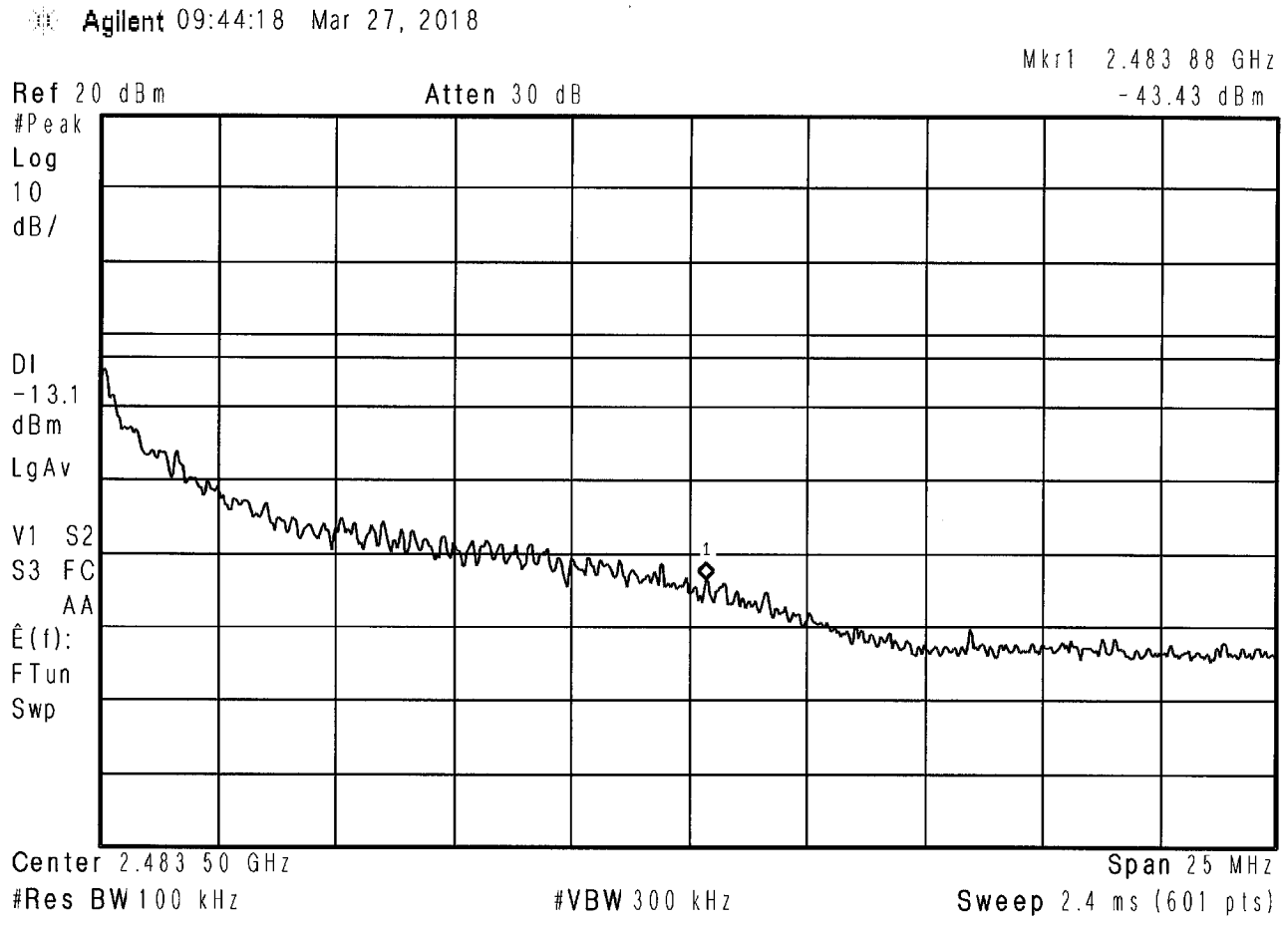
Port: Ch0 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit: -13.11 dBm



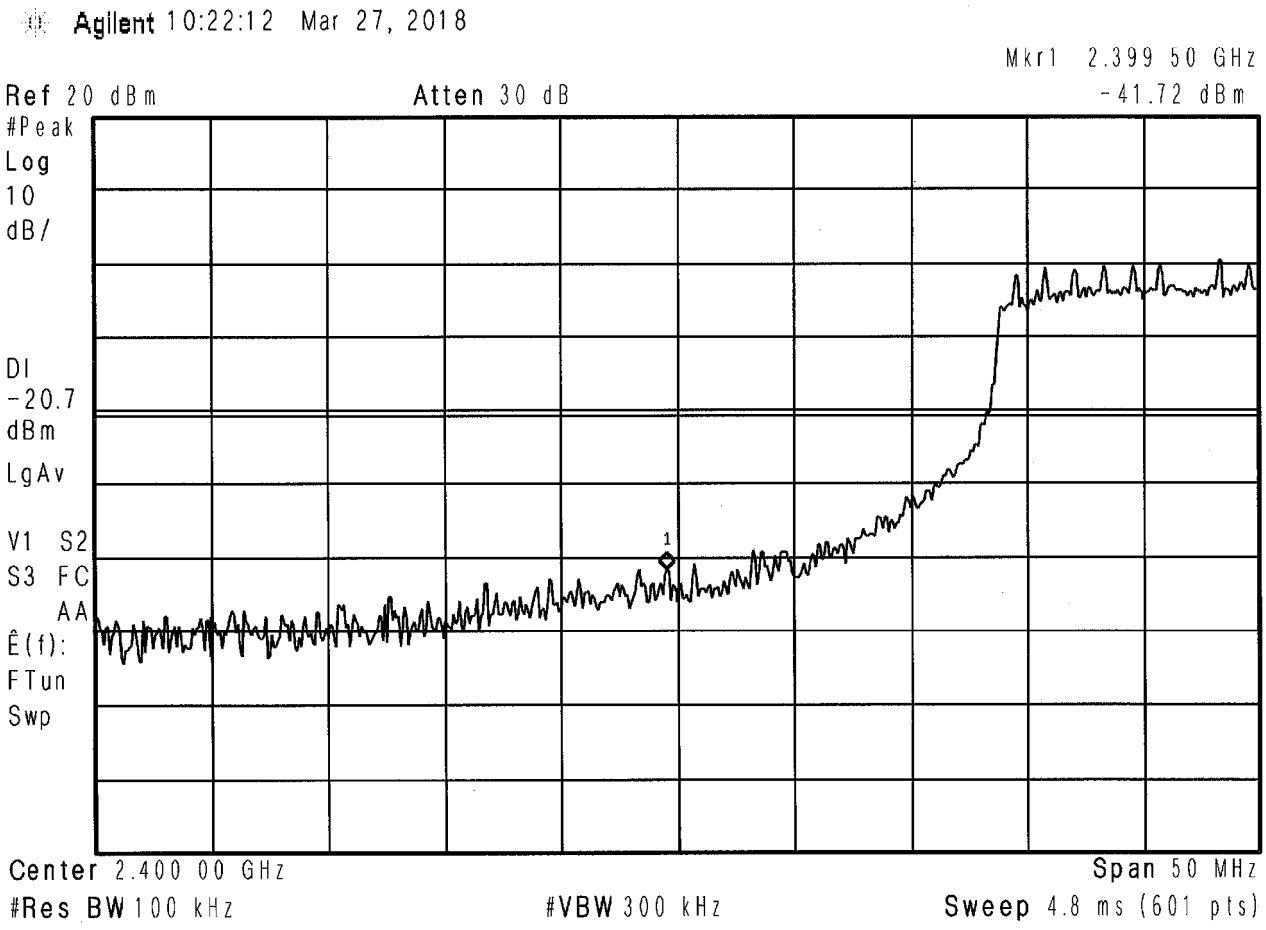
Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit: -13.11 dBm



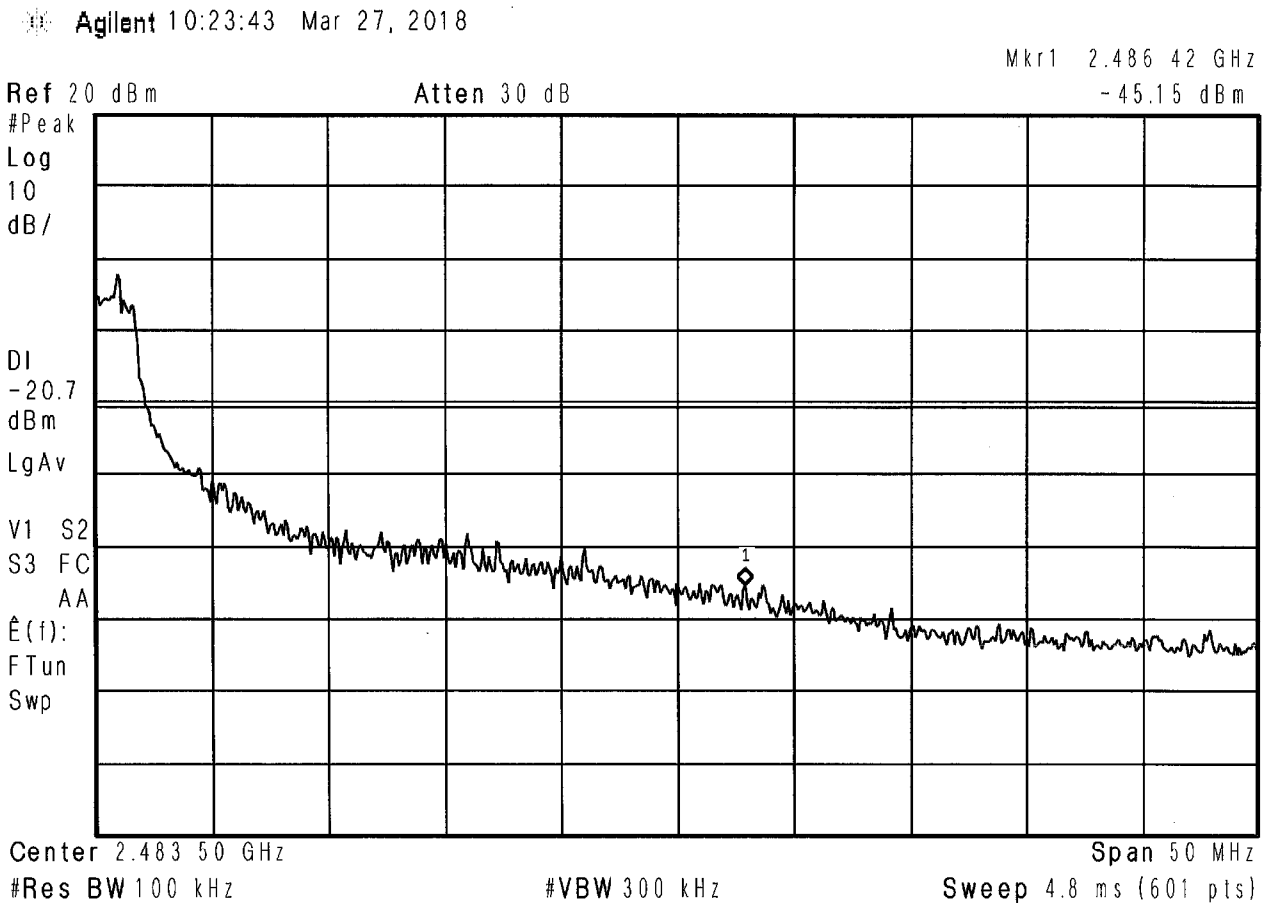
Port: Ch1 Channel Bandwidth: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-20.73 dBm



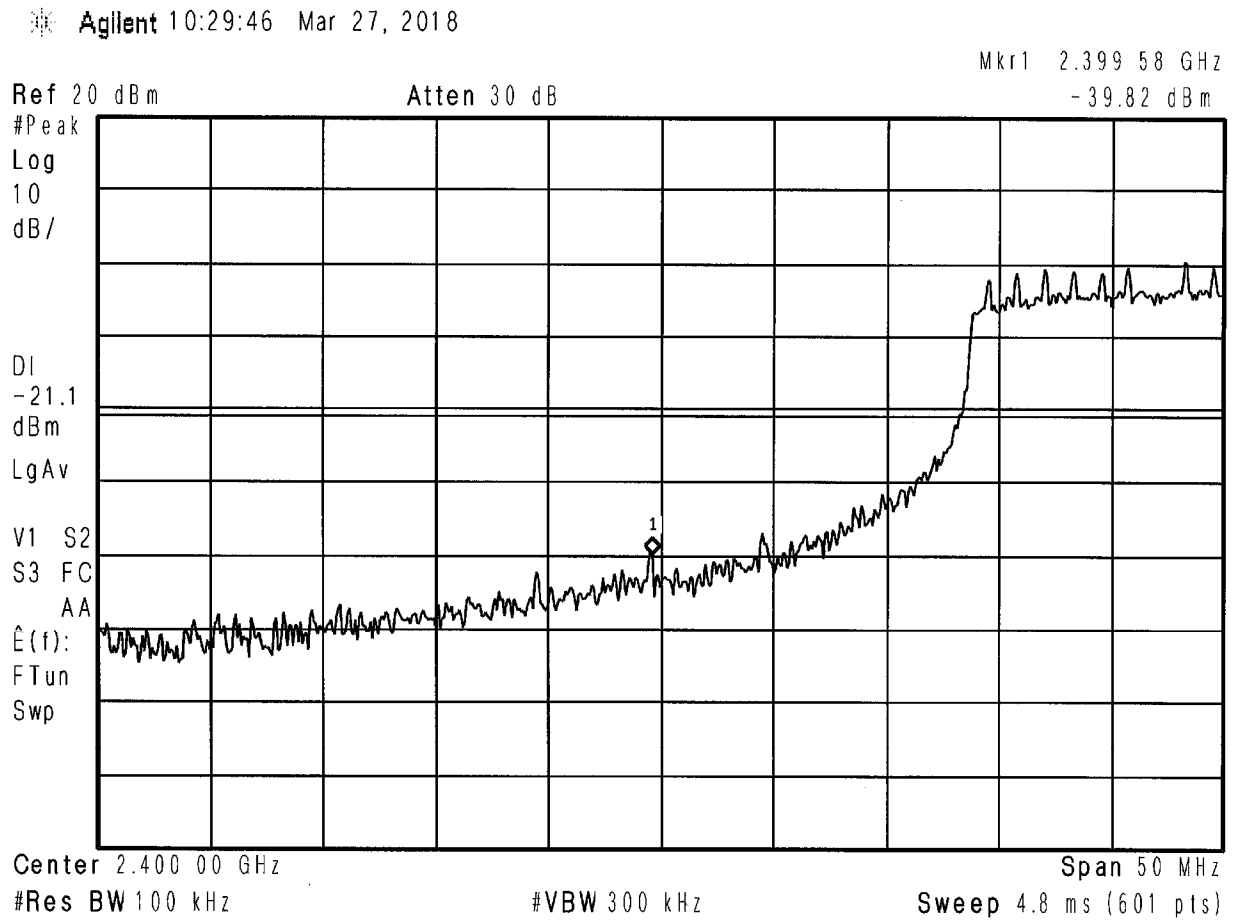
Port: Ch0 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-20.73 dBm



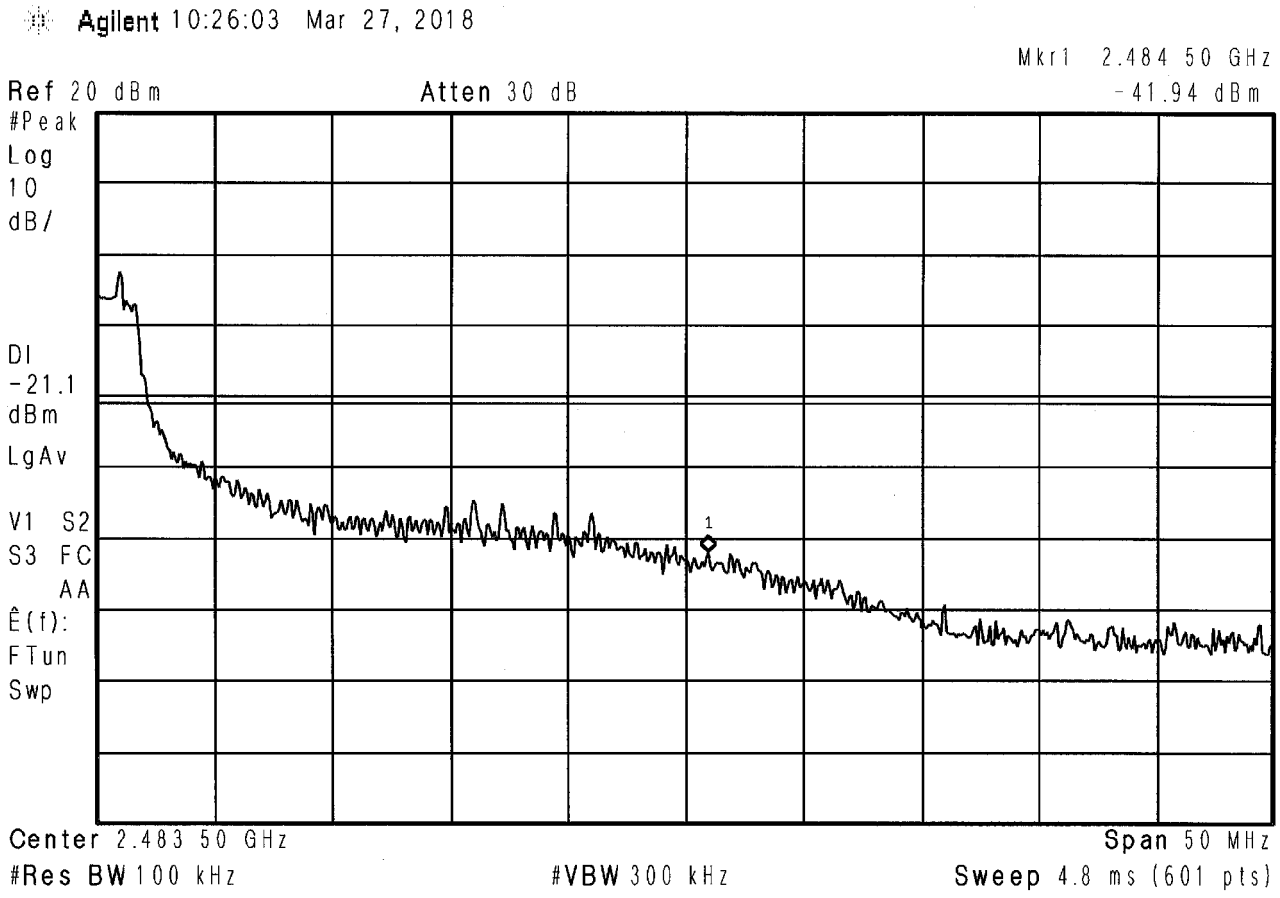
Port: Ch0 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-21.12 dBm



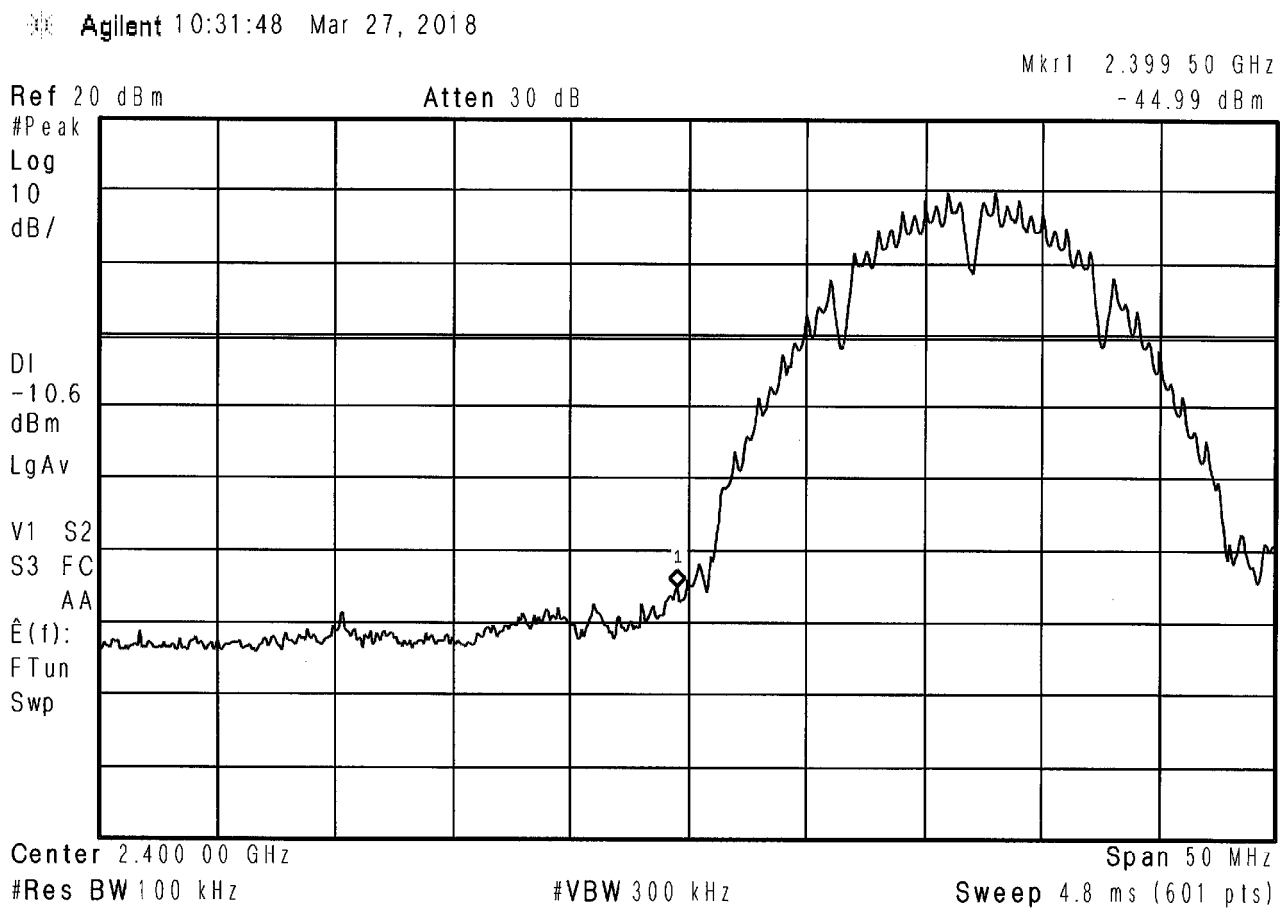
Port: Ch1 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-21.12 dBm



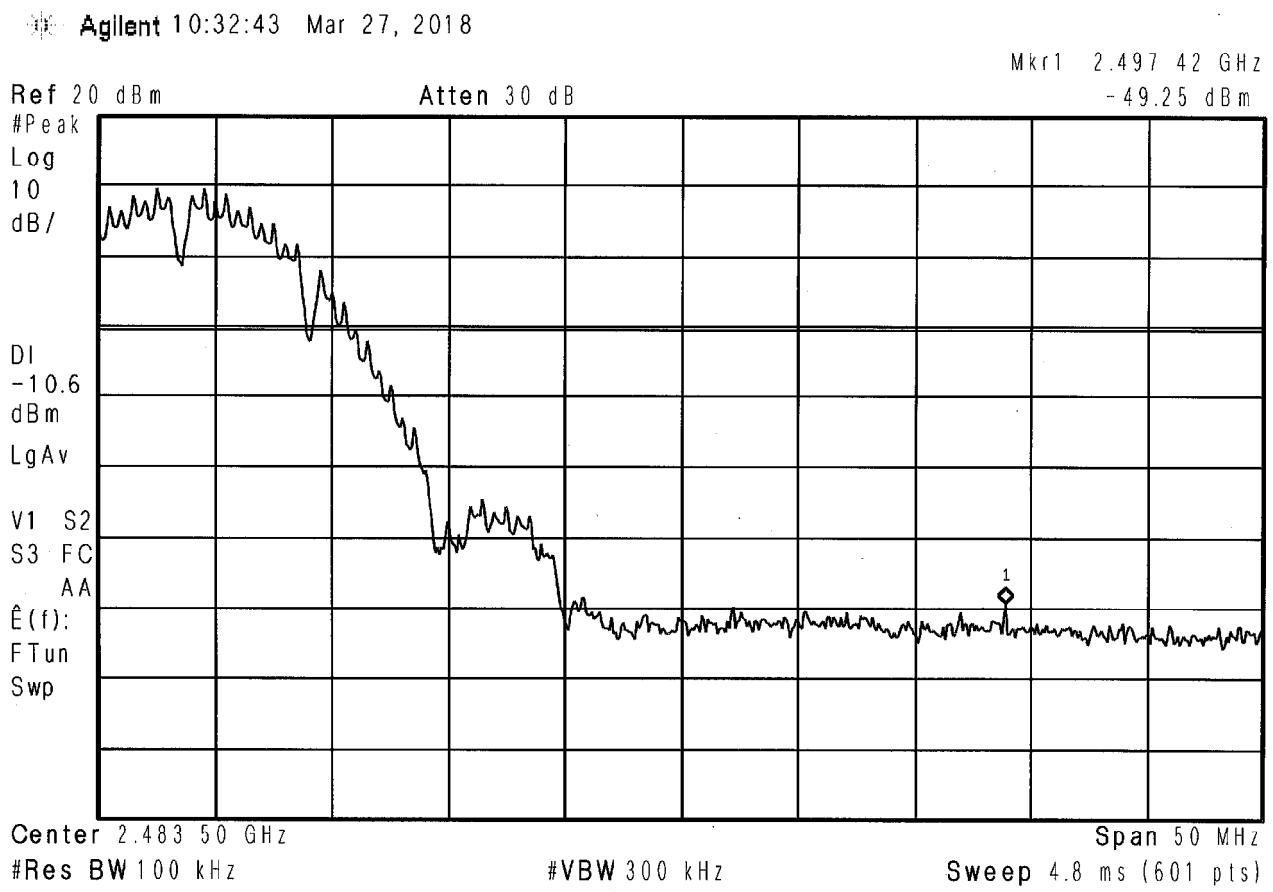
Port: Ch1 Channel Bandwidth: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-10.56 dBm



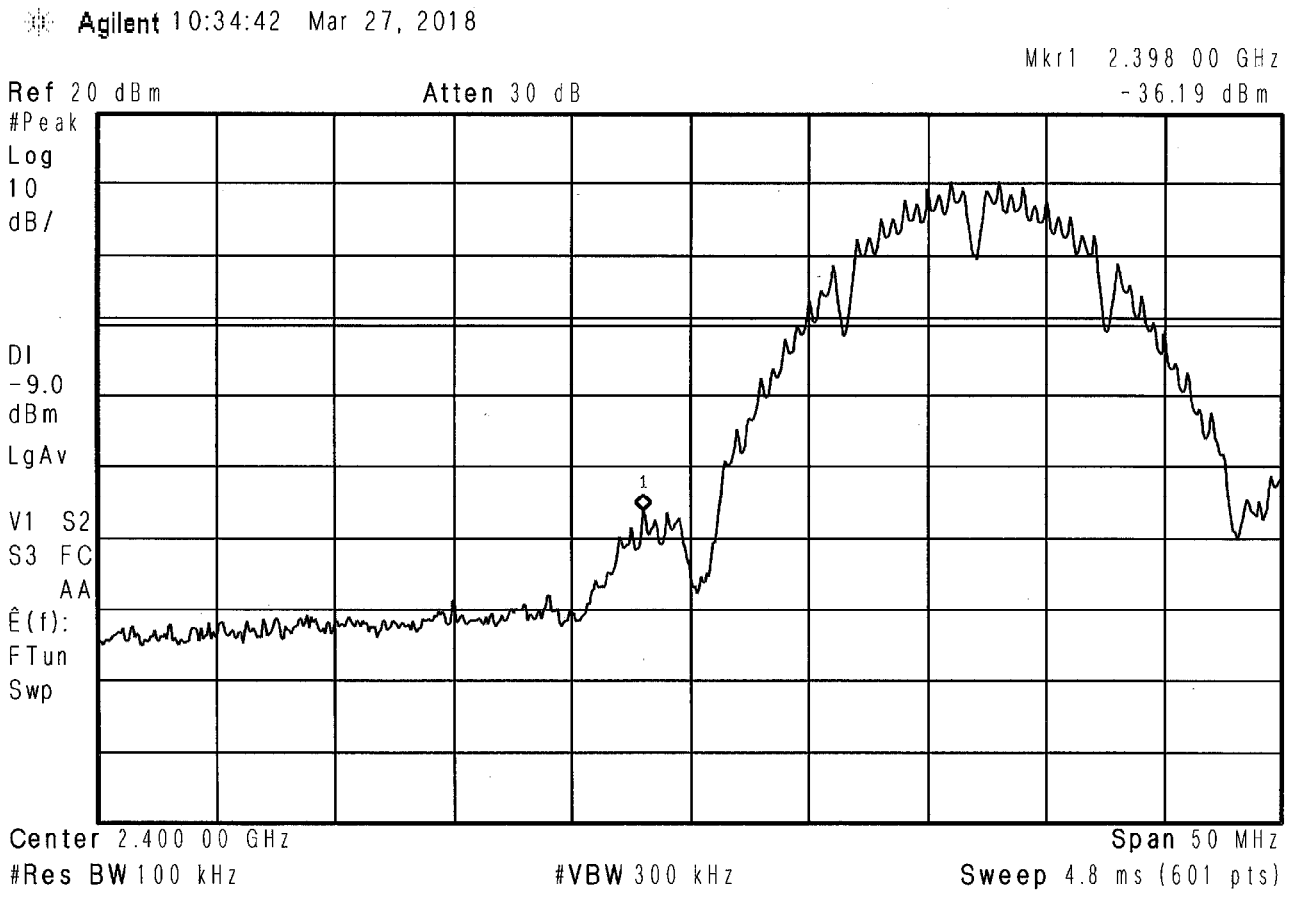
Port: Ch0 Channel Bandwidth: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-10.56 dBm



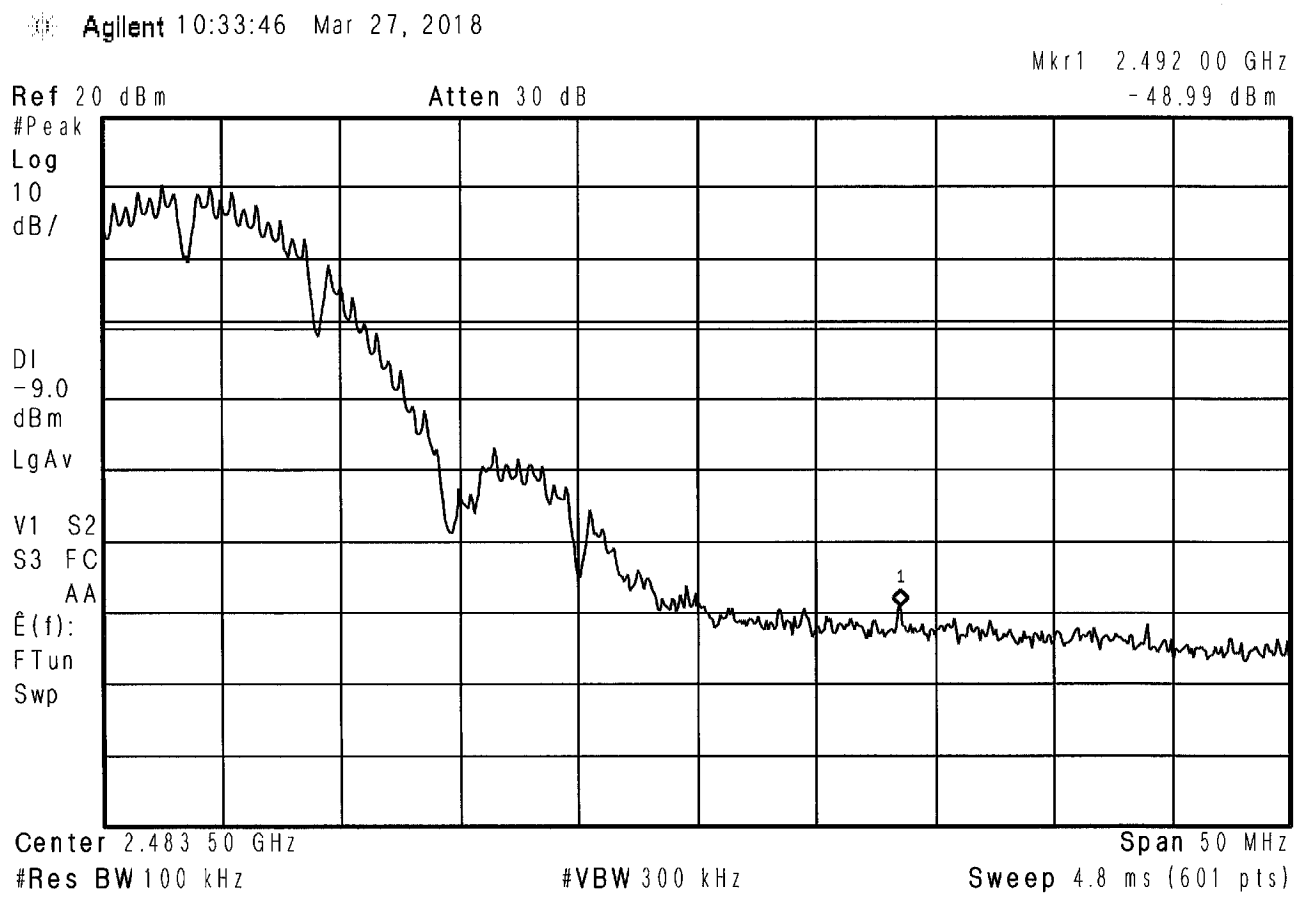
Port: Ch0 Channel Bandwidth: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-9.04 dBm



Port: Ch1 Channel Bandwidth: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Notes:	Limit:-9.04 dBm



Port: Ch1 Channel Bandwidth: CCK

Test Photographs
Spurious Emissions, 30 MHz to 25 GHz

Test Setup

Test Photographs
Spurious Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 30 MHz – 200 MHz, Biconical Antenna

Vertical Polarization, 30 MHz – 200 MHz, Biconical Antenna

Test Photographs
Spurious Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 200 MHz - 1 GHz, Log Periodic

Vertical Polarization, 200 MHz - 1 GHz, Log Periodic

Test Photographs
Spurious Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 1- 18 GHz, Double Ridge Guide

Vertical Polarization, 1- 18 GHz, Double Ridge Guide

Test Photographs
Spurious Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 18- 25 GHz, High Gain Horn

Vertical Polarization, 18- 25 GHz, High Gain Horn

Unwanted Emissions into Restricted Frequency Bands
Spurious Emissions Test Data

Unwanted Emissions into Restricted Frequency Bands
25 MHz to 25 GHz
Test Data

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
37.50	-	-	-	-	-	-	-	-	100.00
|	38.00*	-75.01	-	-	-	-75.01	20.247	10.289	|
38.25	-	-	-	-	-	-	-	-	100.00
73.00	-	-	-	-	-	-	-	-	100.00
|	74.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
74.60	-	-	-	-	-	-	-	-	100.00
74.80	-	-	-	-	-	-	-	-	100.00
|	75.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
75.20	-	-	-	-	-	-	-	-	100.00
108.00	-	-	-	-	-	-	-	-	100.00
|	115.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
121.94	-	-	-	-	-	-	-	-	100.00
123.00	-	-	-	-	-	-	-	-	100.00
|	130.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
138.00	-	-	-	-	-	-	-	-	100.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-	-	-	-	-	-	100.00
|	150.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
150.05	-	-	-	-	-	-	-	-	100.00
156.52	-	-	-	-	-	-	-	-	100.00
|	156.52*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.52	-	-	-	-	-	-	-	-	100.00
156.70	-	-	-	-	-	-	-	-	100.00
|	156.80*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.90	-	-	-	-	-	-	-	-	100.00
162.01	-	-	-	-	-	-	-	-	150.00
|	165.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
167.17	-	-	-	-	-	-	-	-	150.00
167.72	-	-	-	-	-	-	-	-	150.00
|	170.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
173.20	-	-	-	-	-	-	-	-	150.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
240.00	-	-	-	-	-	-	-	-	200.00
|	260.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
285.00	-	-	-	-	-	-	-	-	200.00
322.80	-	-	-	-	-	-	-	-	200.00
|	330.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
335.40	-	-	-	-	-	-	-	-	200.00
399.90	-	-	-	-	-	-	-	-	200.00
|	405.00*	-71.61	-	-	-	-71.61	23.647	15.218	|
410.00	-	-	-	-	-	-	-	-	200.00
608.00	-	-	-	-	-	-	-	-	200.00
|	611.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
614.00	-	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	-	500.00
|	975.00*	-70.00	-	-	-	-70.00	25.257	18.318	|
1240.00	-	-	-	-	-	-	-	-	500.00
1300.00	-	-	-	-	-	-	-	-	500.00
|	1350.00*	-72.80	-	-	-	-72.80	22.457	13.270	|
1427.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1435.00	-	-	-	-	-	-	-	-	500.00
|	1500.00*	-72.33	-	-	-	-72.33	22.928	14.008	|
1646.50	-	-	-	-	-	-	-	-	500.00
1660.00	-	-	-	-	-	-	-	-	500.00
|	1680.00*	-73.58	-	-	-	-73.58	21.678	12.131	|
1710.00	-	-	-	-	-	-	-	-	500.00
1718.80	-	-	-	-	-	-	-	-	500.00
|	1720.00*	-73.91	-	-	-	-73.91	21.348	11.678	|
1722.20	-	-	-	-	-	-	-	-	500.00
2200.00	-	-	-	-	-	-	-	-	500.00
|	2250.00*	-72.83	-	-	-	-72.83	22.428	13.224	|
2300.00	-	-	-	-	-	-	-	-	500.00
2310.00	-	-	-	-	-	-	-	-	500.00
|	2390.00	-50.81	4.4	-	-	-46.41	48.847	276.936	|
2390.00	-	-	-	-	-	-	-	-	500.00
2483.50	-	-	-	-	-	-	-	-	500.00
|	2483.50	-57.12	4.4	-	-	-52.72	42.537	133.930	|
2500.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET		
Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2690.00	-	-	-	-	-	-	-	-	500.00
|	2750.00*	-71.85	-	-	-	-71.85	23.408	14.804	|
2900.00	-	-	-	-	-	-	-	-	500.00
3260.00	-	-	-	-	-	-	-	-	500.00
|	3263.00*	-71.68	-	-	-	-71.68	23.578	15.097	|
3267.00	-	-	-	-	-	-	-	-	500.00
3332.00	-	-	-	-	-	-	-	-	500.00
|	3336.00*	-71.94	-	-	-	-71.94	23.318	14.651	|
3339.00	-	-	-	-	-	-	-	-	500.00
3345.00	-	-	-	-	-	-	-	-	500.00
|	3350.00*	-70.76	-	-	-	-70.76	24.498	16.783	|
3358.00	-	-	-	-	-	-	-	-	500.00
3600.00	-	-	-	-	-	-	-	-	500.00
|	3700.00*	-70.48	-	-	-	-70.48	24.778	17.333	|
4400.00	-	-	-	-	-	-	-	-	500.00
4500.00	-	-	-	-	-	-	-	-	500.00
|	4944.00	-50.78	4.4	-	-	-46.38	48.877	277.894	|
5150.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
5350.00	-	-	-	-	-	-	-	-	500.00
|	5400.00*	-69.17	-	-	-	-69.17	26.088	20.155	|
5460.00	-	-	-	-	-	-	-	-	500.00
7250.00	-	-	-	-	-	-	-	-	500.00
|	7425.00	-58.70	4.4	-	-	-54.30	40.957	111.655	|
7750.00	-	-	-	-	-	-	-	-	500.00
8025.00	-	-	-	-	-	-	-	-	500.00
|	8300.00*	-67.60	-	-	-	-67.60	27.658	24.148	|
8500.00	-	-	-	-	-	-	-	-	500.00
9000.00	-	-	-	-	-	-	-	-	500.00
|	9100.00*	-69.51	-	-	-	-69.51	25.538	19.381	|
9200.00	-	-	-	-	-	-	-	-	500.00
9300.00	-	-	-	-	-	-	-	-	500.00
|	9400.00*	-67.72	-	-	-	-67.72	27.838	23.817	|
9500.00	-	-	-	-	-	-	-	-	500.00
10600.00	-	-	-	-	-	-	-	-	500.00
|	12060.00	-72.58	4.4	-	-	-68.18	27.077	22.588	|
12700.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
13250.00	-	-	-	-	-	-	-	-	500.00
|	15800.00*	-67.90	-	-	-	-67.90	27.358	23.328	|
16200.00	-	-	-	-	-	-	-	-	500.00
17700.00	-	-	-	-	-	-	-	-	500.00
|	19240.00*	-67.95	-	-	-	-67.95	27.308	23.194	|
21400.00	-	-	-	-	-	-	-	-	500.00
22010.00	-	-	-	-	-	-	-	-	500.00
|	22320.00*	-68.05	-	-	-	-68.05	27.208	22.929	|
23120.00	-	-	-	-	-	-	-	-	500.00
23000.00	-	-	-	-	-	-	-	-	500.00
|	23800.00*	-65.93	-	-	-	-65.93	29.328	29.267	|
24000.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1300.00	-	-	-	-	-	-	-	-	5000.00
|	1350.00*	-59.19	-	-	-	-59.19	36.068	63.589	|
1427.00	-	-	-	-	-	-	-	-	5000.00
1435.00	-	-	-	-	-	-	-	-	5000.00
|	1500.00*	-58.75	-	-	-	-58.75	36.508	66.893	|
1646.50	-	-	-	-	-	-	-	-	5000.00
1660.00	-	-	-	-	-	-	-	-	5000.00
|	1680.00*	-59.84	-	-	-	-59.84	35.418	59.004	|
1710.00	-	-	-	-	-	-	-	-	5000.00
1718.80	-	-	-	-	-	-	-	-	5000.00
|	1720.00*	-60.06	-	-	-	-60.06	35.198	57.528	|
1722.20	-	-	-	-	-	-	-	-	5000.00
2200.00	-	-	-	-	-	-	-	-	5000.00
|	2250.00*	-60.17	-	-	-	-60.17	35.088	56.804	|
2300.00	-	-	-	-	-	-	-	-	5000.00
2310.00	-	-	-	-	-	-	-	-	5000.00
|	2390.00	-39.89	4.4	-	-	-35.49	59.767	973.596	|
2390.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
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Test Sample	Set Top Box	
Model Number	AX061AEI	
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Notes: Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2483.50	-	-	-	-	-	-	-	-	5000.00
|	2483.50	-40.70	4.4	-	-	-36.30	58.957	886.908	|
2500.00	-	-	-	-	-	-	-	-	5000.00
2690.00	-	-	-	-	-	-	-	-	5000.00
|	2750.00*	-58.93	-	-	-	-58.93	36.328	65.521	|
2900.00	-	-	-	-	-	-	-	-	5000.00
3260.00	-	-	-	-	-	-	-	-	5000.00
|	3263.00*	-58.36	-	-	-	-58.36	36.898	69.965	|
3267.00	-	-	-	-	-	-	-	-	5000.00
3332.00	-	-	-	-	-	-	-	-	5000.00
|	3336.00*	-58.35	-	-	-	-58.35	36.908	70.045	|
3339.00	-	-	-	-	-	-	-	-	5000.00
3345.00	-	-	-	-	-	-	-	-	5000.00
|	3350.00*	-58.39	-	-	-	-58.39	36.868	69.723	|
3358.00	-	-	-	-	-	-	-	-	5000.00
3600.00	-	-	-	-	-	-	-	-	5000.00
|	3700.00*	-58.37	-	-	-	-58.37	36.888	69.884	|
4400.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
4500.00	-	-	-	-	-	-	-	-	5000.00
|	4994.00	-47.90	4.4	-	-	-43.50	51.757	387.150	|
5150.00	-	-	-	-	-	-	-	-	5000.00
5350.00	-	-	-	-	-	-	-	-	5000.00
|	5400.00*	-57.85	-	-	-	-57.85	37.408	74.196	|
5460.00	-	-	-	-	-	-	-	-	5000.00
7250.00	-	-	-	-	-	-	-	-	5000.00
|	7416.00	-51.56	4.4	-	-	-47.16	48.097	254.026	|
7750.00	-	-	-	-	-	-	-	-	5000.00
8025.00	-	-	-	-	-	-	-	-	5000.00
|	8300.00*	-55.78	-	-	-	-55.78	39.478	94.163	|
8500.00	-	-	-	-	-	-	-	-	5000.00
9000.00	-	-	-	-	-	-	-	-	5000.00
|	9100.00*	-56.52	-	-	-	-56.52	38.738	86.473	|
9200.00	-	-	-	-	-	-	-	-	5000.00
9300.00	-	-	-	-	-	-	-	-	5000.00
|	9400.00*	-55.92	-	-	-	-55.92	39.338	92.657	|
9500.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated (CCK) signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
10600.00	-	-	-	-	-	-	-	-	5000.00
|	12400.00*	-54.42	-	-	-	-54.42	40.837	110.123	|
12700.00	-	-	-	-	-	-	-	-	5000.00
13250.00	-	-	-	-	-	-	-	-	5000.00
|	15800.00*	-55.58	-	-	-	-55.58	39.678	96.356	|
16200.00	-	-	-	-	-	-	-	-	5000.00
17700.00	-	-	-	-	-	-	-	-	5000.00
|	19240.00*	-55.74	-	-	-	-55.74	39.518	94.597	|
21400.00	-	-	-	-	-	-	-	-	5000.00
22010.00	-	-	-	-	-	-	-	-	5000.00
|	22320.00*	-56.19	-	-	-	-56.19	39.068	89.821	|
23120.00	-	-	-	-	-	-	-	-	5000.00
23000.00	-	-	-	-	-	-	-	-	5000.00
|	23800.00*	-53.95	-	-	-	-53.95	41.308	116.25	|
24000.00	-	-	-	-	-	-	-	-	5000.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
37.50	-	-	-	-	-	-	-	-	100.00
|	38.00*	-75.01	-	-	-	-75.01	20.247	10.289	|
38.25	-	-	-	-	-	-	-	-	100.00
73.00	-	-	-	-	-	-	-	-	100.00
|	74.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
74.60	-	-	-	-	-	-	-	-	100.00
74.80	-	-	-	-	-	-	-	-	100.00
|	75.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
75.20	-	-	-	-	-	-	-	-	100.00
108.00	-	-	-	-	-	-	-	-	100.00
|	115.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
121.94	-	-	-	-	-	-	-	-	100.00
123.00	-	-	-	-	-	-	-	-	100.00
|	130.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
138.00	-	-	-	-	-	-	-	-	100.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-	-	-	-	-	-	100.00
|	150.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
150.05	-	-	-	-	-	-	-	-	100.00
156.52	-	-	-	-	-	-	-	-	100.00
|	156.52*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.52	-	-	-	-	-	-	-	-	100.00
156.70	-	-	-	-	-	-	-	-	100.00
|	156.80*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.90	-	-	-	-	-	-	-	-	100.00
162.01	-	-	-	-	-	-	-	-	150.00
|	165.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
167.17	-	-	-	-	-	-	-	-	150.00
167.72	-	-	-	-	-	-	-	-	150.00
|	170.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
173.20	-	-	-	-	-	-	-	-	150.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
240.00	-	-	-	-	-	-	-	-	200.00
|	260.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
285.00	-	-	-	-	-	-	-	-	200.00
322.80	-	-	-	-	-	-	-	-	200.00
|	330.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
335.40	-	-	-	-	-	-	-	-	200.00
399.90	-	-	-	-	-	-	-	-	200.00
|	405.00*	-71.61	-	-	-	-71.61	23.647	15.218	|
410.00	-	-	-	-	-	-	-	-	200.00
608.00	-	-	-	-	-	-	-	-	200.00
|	611.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
614.00	-	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	-	500.00
|	975.00*	-70.00	-	-	-	-70.00	25.257	18.318	|
1240.00	-	-	-	-	-	-	-	-	500.00
1300.00	-	-	-	-	-	-	-	-	500.00
|	1350.00*	-72.80	-	-	-	-72.80	22.457	13.270	|
1427.00	-	-	-	-	-	-	-	-	500.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1435.00	-	-	-	-	-	-	-	-	500.00
|	1500.00*	-72.33	-	-	-	-72.33	22.928	14.008	|
1646.50	-	-	-	-	-	-	-	-	500.00
1660.00	-	-	-	-	-	-	-	-	500.00
|	1680.00*	-73.58	-	-	-	-73.58	21.678	12.131	|
1710.00	-	-	-	-	-	-	-	-	500.00
1718.80	-	-	-	-	-	-	-	-	500.00
|	1720.00*	-73.91	-	-	-	-73.91	21.348	11.678	|
1722.20	-	-	-	-	-	-	-	-	500.00
2200.00	-	-	-	-	-	-	-	-	500.00
|	2250.00*	-72.83	-	-	-	-72.83	22.428	13.224	|
2300.00	-	-	-	-	-	-	-	-	500.00
2310.00	-	-	-	-	-	-	-	-	500.00
|	2390.00	-52.59	4.4	-	-	-48.19	47.068	225.620	|
2390.00	-	-	-	-	-	-	-	-	500.00
2483.50	-	-	-	-	-	-	-	-	500.00
|	2483.50	-50.93	4.4	-	-	-46.53	48.728	273.140	|
2500.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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Test Sample	Set Top Box	
Model Number	AX061AEI	
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Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
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Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2690.00	-	-	-	-	-	-	-	-	500.00
|	2750.00*	-71.85	-	-	-	-71.85	23.408	14.804	|
2900.00	-	-	-	-	-	-	-	-	500.00
3260.00	-	-	-	-	-	-	-	-	500.00
|	3263.00*	-71.68	-	-	-	-71.68	23.578	15.097	|
3267.00	-	-	-	-	-	-	-	-	500.00
3332.00	-	-	-	-	-	-	-	-	500.00
|	3336.00*	-71.94	-	-	-	-71.94	23.318	14.651	|
3339.00	-	-	-	-	-	-	-	-	500.00
3345.00	-	-	-	-	-	-	-	-	500.00
|	3350.00*	-70.76	-	-	-	-70.76	24.498	16.783	|
3358.00	-	-	-	-	-	-	-	-	500.00
3600.00	-	-	-	-	-	-	-	-	500.00
|	3700.00*	-70.48	-	-	-	-70.48	24.778	17.333	|
4400.00	-	-	-	-	-	-	-	-	500.00
4500.00	-	-	-	-	-	-	-	-	500.00
|	4944.00	-66.07	4.4	-	-	-61.67	33.588	47.795	|
5150.00	-	-	-	-	-	-	-	-	500.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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Test Sample	Set Top Box	
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Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
5350.00	-	-	-	-	-	-	-	-	500.00
|	5400.00*	-69.17	-	-	-	-69.17	26.088	20.155	|
5460.00	-	-	-	-	-	-	-	-	500.00
7250.00	-	-	-	-	-	-	-	-	500.00
|	7425.00	-68.18	4.4	-	-	-63.78	31.478	37.487	|
7750.00	-	-	-	-	-	-	-	-	500.00
8025.00	-	-	-	-	-	-	-	-	500.00
|	8300.00*	-67.60	-	-	-	-67.60	27.658	24.148	|
8500.00	-	-	-	-	-	-	-	-	500.00
9000.00	-	-	-	-	-	-	-	-	500.00
|	9100.00*	-69.51	-	-	-	-69.51	25.538	19.381	|
9200.00	-	-	-	-	-	-	-	-	500.00
9300.00	-	-	-	-	-	-	-	-	500.00
|	9400.00*	-67.72	-	-	-	-67.72	27.838	23.817	|
9500.00	-	-	-	-	-	-	-	-	500.00
10600.00	-	-	-	-	-	-	-	-	500.00
|	12200.00*	-67.50	-	-	-	-67.50	27.757	24.427	|
12700.00	-	-	-	-	-	-	-	-	500.00

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Technician	M. Seamans	
Date	January 22nd, 2018	

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TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
13250.00	-	-	-	-	-	-	-	-	500.00
|	15800.00*	-67.90	-	-	-	-67.90	27.358	23.328	|
16200.00	-	-	-	-	-	-	-	-	500.00
17700.00	-	-	-	-	-	-	-	-	500.00
|	19240.00*	-67.95	-	-	-	-67.95	27.308	23.194	|
21400.00	-	-	-	-	-	-	-	-	500.00
22010.00	-	-	-	-	-	-	-	-	500.00
|	22320.00*	-68.05	-	-	-	-68.05	27.208	22.929	|
23120.00	-	-	-	-	-	-	-	-	500.00
23000.00	-	-	-	-	-	-	-	-	500.00
|	23800.00*	-65.93	-	-	-	-65.93	29.328	29.267	|
24000.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch0 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1300.00	-	-	-	-	-	-	-	-	5000.00
|	1350.00*	-59.19	-	-	-	-59.19	36.068	63.589	|
1427.00	-	-	-	-	-	-	-	-	5000.00
1435.00	-	-	-	-	-	-	-	-	5000.00
|	1500.00*	-58.75	-	-	-	-58.75	36.508	66.893	|
1646.50	-	-	-	-	-	-	-	-	5000.00
1660.00	-	-	-	-	-	-	-	-	5000.00
|	1680.00*	-59.84	-	-	-	-59.84	35.418	59.004	|
1710.00	-	-	-	-	-	-	-	-	5000.00
1718.80	-	-	-	-	-	-	-	-	5000.00
|	1720.00*	-60.06	-	-	-	-60.06	35.198	57.528	|
1722.20	-	-	-	-	-	-	-	-	5000.00
2200.00	-	-	-	-	-	-	-	-	5000.00
|	2250.00*	-60.17	-	-	-	-60.17	35.088	56.804	|
2300.00	-	-	-	-	-	-	-	-	5000.00
2310.00	-	-	-	-	-	-	-	-	5000.00
|	2390.00	-37.95	4.4	-	-	-33.55	61.708	1217.200	|
2390.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2483.50	-	-	-	-	-	-	-	-	5000.00
|	2483.50	-36.46	4.4	-	-	-32.06	63.198	1445.000	|
2500.00	-	-	-	-	-	-	-	-	5000.00
2690.00	-	-	-	-	-	-	-	-	5000.00
|	2750.00*	-58.93	-	-	-	-58.93	36.328	65.521	|
2900.00	-	-	-	-	-	-	-	-	5000.00
3260.00	-	-	-	-	-	-	-	-	5000.00
|	3263.00*	-58.36	-	-	-	-58.36	36.898	69.965	|
3267.00	-	-	-	-	-	-	-	-	5000.00
3332.00	-	-	-	-	-	-	-	-	5000.00
|	3336.00*	-58.35	-	-	-	-58.35	36.908	70.045	|
3339.00	-	-	-	-	-	-	-	-	5000.00
3345.00	-	-	-	-	-	-	-	-	5000.00
|	3350.00*	-58.39	-	-	-	-58.39	36.868	69.723	|
3358.00	-	-	-	-	-	-	-	-	5000.00
3600.00	-	-	-	-	-	-	-	-	5000.00
|	3700.00*	-58.37	-	-	-	-58.37	36.888	69.884	|
4400.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
4500.00	-	-	-	-	-	-	-	-	5000.00
|	4994.00	-53.70	4.4	-	-	-49.30	45.958	198.550	|
5150.00	-	-	-	-	-	-	-	-	5000.00
5350.00	-	-	-	-	-	-	-	-	5000.00
|	5400.00*	-57.85	-	-	-	-57.85	37.408	74.196	|
5460.00	-	-	-	-	-	-	-	-	5000.00
7250.00	-	-	-	-	-	-	-	-	5000.00
|	7416.00	-55.11	4.4	-	-	-50.71	44.548	168.800	|
7750.00	-	-	-	-	-	-	-	-	5000.00
8025.00	-	-	-	-	-	-	-	-	5000.00
|	8300.00*	-55.78	-	-	-	-55.78	39.478	94.163	|
8500.00	-	-	-	-	-	-	-	-	5000.00
9000.00	-	-	-	-	-	-	-	-	5000.00
|	9100.00*	-56.52	-	-	-	-56.52	38.738	86.473	|
9200.00	-	-	-	-	-	-	-	-	5000.00
9300.00	-	-	-	-	-	-	-	-	5000.00
|	9400.00*	-55.92	-	-	-	-55.92	39.338	92.657	|
9500.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch0 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
10600.00	-	-	-	-	-	-	-	-	5000.00
|	12400.00*	-54.42	-	-	-	-54.42	40.837	110.123	|
12700.00	-	-	-	-	-	-	-	-	5000.00
13250.00	-	-	-	-	-	-	-	-	5000.00
|	15800.00*	-55.58	-	-	-	-55.58	39.678	96.356	|
16200.00	-	-	-	-	-	-	-	-	5000.00
17700.00	-	-	-	-	-	-	-	-	5000.00
|	19240.00*	-55.74	-	-	-	-55.74	39.518	94.597	|
21400.00	-	-	-	-	-	-	-	-	5000.00
22010.00	-	-	-	-	-	-	-	-	5000.00
|	22320.00*	-56.19	-	-	-	-56.19	39.068	89.821	|
23120.00	-	-	-	-	-	-	-	-	5000.00
23000.00	-	-	-	-	-	-	-	-	5000.00
|	23800.00*	-53.95	-	-	-	-53.95	41.308	116.25	|
24000.00	-	-	-	-	-	-	-	-	5000.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
37.50	-	-	-	-	-	-	-	-	100.00
|	38.00*	-75.01	-	-	-	-75.01	20.247	10.289	|
38.25	-	-	-	-	-	-	-	-	100.00
73.00	-	-	-	-	-	-	-	-	100.00
|	74.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
74.60	-	-	-	-	-	-	-	-	100.00
74.80	-	-	-	-	-	-	-	-	100.00
|	75.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
75.20	-	-	-	-	-	-	-	-	100.00
108.00	-	-	-	-	-	-	-	-	100.00
|	115.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
121.94	-	-	-	-	-	-	-	-	100.00
123.00	-	-	-	-	-	-	-	-	100.00
|	130.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
138.00	-	-	-	-	-	-	-	-	100.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-	-	-	-	-	-	100.00
|	150.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
150.05	-	-	-	-	-	-	-	-	100.00
156.52	-	-	-	-	-	-	-	-	100.00
|	156.52*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.52	-	-	-	-	-	-	-	-	100.00
156.70	-	-	-	-	-	-	-	-	100.00
|	156.80*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.90	-	-	-	-	-	-	-	-	100.00
162.01	-	-	-	-	-	-	-	-	150.00
|	165.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
167.17	-	-	-	-	-	-	-	-	150.00
167.72	-	-	-	-	-	-	-	-	150.00
|	170.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
173.20	-	-	-	-	-	-	-	-	150.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
240.00	-	-	-	-	-	-	-	-	200.00
|	260.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
285.00	-	-	-	-	-	-	-	-	200.00
322.80	-	-	-	-	-	-	-	-	200.00
|	330.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
335.40	-	-	-	-	-	-	-	-	200.00
399.90	-	-	-	-	-	-	-	-	200.00
|	405.00*	-71.61	-	-	-	-71.61	23.647	15.218	|
410.00	-	-	-	-	-	-	-	-	200.00
608.00	-	-	-	-	-	-	-	-	200.00
|	611.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
614.00	-	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	-	500.00
|	975.00*	-70.00	-	-	-	-70.00	25.257	18.318	|
1240.00	-	-	-	-	-	-	-	-	500.00
1300.00	-	-	-	-	-	-	-	-	500.00
|	1350.00*	-72.80	-	-	-	-72.80	22.457	13.270	|
1427.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1435.00	-	-	-	-	-	-	-	-	500.00
|	1500.00*	-72.33	-	-	-	-72.33	22.928	14.008	|
1646.50	-	-	-	-	-	-	-	-	500.00
1660.00	-	-	-	-	-	-	-	-	500.00
|	1680.00*	-73.58	-	-	-	-73.58	21.678	12.131	|
1710.00	-	-	-	-	-	-	-	-	500.00
1718.80	-	-	-	-	-	-	-	-	500.00
|	1720.00*	-73.91	-	-	-	-73.91	21.348	11.678	|
1722.20	-	-	-	-	-	-	-	-	500.00
2200.00	-	-	-	-	-	-	-	-	500.00
|	2250.00*	-72.83	-	-	-	-72.83	22.428	13.224	|
2300.00	-	-	-	-	-	-	-	-	500.00
2310.00	-	-	-	-	-	-	-	-	500.00
|	2390.00	-48.19	2.7	-	-	-45.49	49.768	307.880	|
2390.00	-	-	-	-	-	-	-	-	500.00
2483.50	-	-	-	-	-	-	-	-	500.00
|	2483.50	-45.97	2.7	-	-	-43.27	51.988	397.540	|
2500.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2690.00	-	-	-	-	-	-	-	-	500.00
|	2750.00*	-71.85	-	-	-	-71.85	23.408	14.804	|
2900.00	-	-	-	-	-	-	-	-	500.00
3260.00	-	-	-	-	-	-	-	-	500.00
|	3263.00*	-71.68	-	-	-	-71.68	23.578	15.097	|
3267.00	-	-	-	-	-	-	-	-	500.00
3332.00	-	-	-	-	-	-	-	-	500.00
|	3336.00*	-71.94	-	-	-	-71.94	23.318	14.651	|
3339.00	-	-	-	-	-	-	-	-	500.00
3345.00	-	-	-	-	-	-	-	-	500.00
|	3350.00*	-70.76	-	-	-	-70.76	24.498	16.783	|
3358.00	-	-	-	-	-	-	-	-	500.00
3600.00	-	-	-	-	-	-	-	-	500.00
|	3700.00*	-70.48	-	-	-	-70.48	24.778	17.333	|
4400.00	-	-	-	-	-	-	-	-	500.00
4500.00	-	-	-	-	-	-	-	-	500.00
|	4944.00	-65.56	2.7	-	-	-62.86	32.398	41.675	|
5150.00	-	-	-	-	-	-	-	-	500.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
5350.00	-	-	-	-	-	-	-	-	500.00
|	5400.00*	-69.17	-	-	-	-69.17	26.088	20.155	|
5460.00	-	-	-	-	-	-	-	-	500.00
7250.00	-	-	-	-	-	-	-	-	500.00
|	7425.00	-67.31	2.7	-	-	-64.61	30.648	34.071	|
7750.00	-	-	-	-	-	-	-	-	500.00
8025.00	-	-	-	-	-	-	-	-	500.00
|	8300.00*	-67.60	-	-	-	-67.60	27.658	24.148	|
8500.00	-	-	-	-	-	-	-	-	500.00
9000.00	-	-	-	-	-	-	-	-	500.00
|	9100.00*	-69.51	-	-	-	-69.51	25.538	19.381	|
9200.00	-	-	-	-	-	-	-	-	500.00
9300.00	-	-	-	-	-	-	-	-	500.00
|	9400.00*	-67.72	-	-	-	-67.72	27.838	23.817	|
9500.00	-	-	-	-	-	-	-	-	500.00
10600.00	-	-	-	-	-	-	-	-	500.00
|	12200.00*	-67.50	-	-	-	-67.50	27.757	24.427	|
12700.00	-	-	-	-	-	-	-	-	500.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
13250.00	-	-	-	-	-	-	-	-	500.00
|	15800.00*	-67.90	-	-	-	-67.90	27.358	23.328	|
16200.00	-	-	-	-	-	-	-	-	500.00
17700.00	-	-	-	-	-	-	-	-	500.00
|	19240.00*	-67.95	-	-	-	-67.95	27.308	23.194	|
21400.00	-	-	-	-	-	-	-	-	500.00
22010.00	-	-	-	-	-	-	-	-	500.00
|	22320.00*	-68.05	-	-	-	-68.05	27.208	22.929	|
23120.00	-	-	-	-	-	-	-	-	500.00
23000.00	-	-	-	-	-	-	-	-	500.00
|	23800.00*	-65.93	-	-	-	-65.93	29.328	29.267	|
24000.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1300.00	-	-	-	-	-	-	-	-	5000.00
|	1350.00*	-59.19	-	-	-	-59.19	36.068	63.589	|
1427.00	-	-	-	-	-	-	-	-	5000.00
1435.00	-	-	-	-	-	-	-	-	5000.00
|	1500.00*	-58.75	-	-	-	-58.75	36.508	66.893	|
1646.50	-	-	-	-	-	-	-	-	5000.00
1660.00	-	-	-	-	-	-	-	-	5000.00
|	1680.00*	-59.84	-	-	-	-59.84	35.418	59.004	|
1710.00	-	-	-	-	-	-	-	-	5000.00
1718.80	-	-	-	-	-	-	-	-	5000.00
|	1720.00*	-60.06	-	-	-	-60.06	35.198	57.528	|
1722.20	-	-	-	-	-	-	-	-	5000.00
2200.00	-	-	-	-	-	-	-	-	5000.00
|	2250.00*	-60.17	-	-	-	-60.17	35.088	56.804	|
2300.00	-	-	-	-	-	-	-	-	5000.00
2310.00	-	-	-	-	-	-	-	-	5000.00
|	2390.00	-36.53	2.7	-	-	-33.83	61.428	1178.600	|
2390.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch1 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2483.50	-	-	-	-	-	-	-	-	5000.00
|	2483.50	-35.90	2.7	-	-	-33.20	62.058	1267.300	|
2500.00	-	-	-	-	-	-	-	-	5000.00
2690.00	-	-	-	-	-	-	-	-	5000.00
|	2750.00*	-58.93	-	-	-	-58.93	36.328	65.521	|
2900.00	-	-	-	-	-	-	-	-	5000.00
3260.00	-	-	-	-	-	-	-	-	5000.00
|	3263.00*	-58.36	-	-	-	-58.36	36.898	69.965	|
3267.00	-	-	-	-	-	-	-	-	5000.00
3332.00	-	-	-	-	-	-	-	-	5000.00
|	3336.00*	-58.35	-	-	-	-58.35	36.908	70.045	|
3339.00	-	-	-	-	-	-	-	-	5000.00
3345.00	-	-	-	-	-	-	-	-	5000.00
|	3350.00*	-58.39	-	-	-	-58.39	36.868	69.723	|
3358.00	-	-	-	-	-	-	-	-	5000.00
3600.00	-	-	-	-	-	-	-	-	5000.00
|	3700.00*	-58.37	-	-	-	-58.37	36.888	69.884	|
4400.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
4500.00	-	-	-	-	-	-	-	-	5000.00
|	4994.00	-52.36	2.7	-	-	-49.66	45.598	190.490	|
5150.00	-	-	-	-	-	-	-	-	5000.00
5350.00	-	-	-	-	-	-	-	-	5000.00
|	5400.00*	-57.85	-	-	-	-57.85	37.408	74.196	|
5460.00	-	-	-	-	-	-	-	-	5000.00
7250.00	-	-	-	-	-	-	-	-	5000.00
|	7416.00	-54.66	2.7	-	-	-51.96	43.298	146.180	|
7750.00	-	-	-	-	-	-	-	-	5000.00
8025.00	-	-	-	-	-	-	-	-	5000.00
|	8300.00*	-55.78	-	-	-	-55.78	39.478	94.163	|
8500.00	-	-	-	-	-	-	-	-	5000.00
9000.00	-	-	-	-	-	-	-	-	5000.00
|	9100.00*	-56.52	-	-	-	-56.52	38.738	86.473	|
9200.00	-	-	-	-	-	-	-	-	5000.00
9300.00	-	-	-	-	-	-	-	-	5000.00
|	9400.00*	-55.92	-	-	-	-55.92	39.338	92.657	|
9500.00	-	-	-	-	-	-	-	-	5000.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 20MHz signal at 2412 MHz, 2442 MHz and 2462 MHz	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
10600.00	-	-	-	-	-	-	-	-	5000.00
|	12400.00*	-54.42	-	-	-	-54.42	40.837	110.123	|
12700.00	-	-	-	-	-	-	-	-	5000.00
13250.00	-	-	-	-	-	-	-	-	5000.00
|	15800.00*	-55.58	-	-	-	-55.58	39.678	96.356	|
16200.00	-	-	-	-	-	-	-	-	5000.00
17700.00	-	-	-	-	-	-	-	-	5000.00
|	19240.00*	-55.74	-	-	-	-55.74	39.518	94.597	|
21400.00	-	-	-	-	-	-	-	-	5000.00
22010.00	-	-	-	-	-	-	-	-	5000.00
|	22320.00*	-56.19	-	-	-	-56.19	39.068	89.821	|
23120.00	-	-	-	-	-	-	-	-	5000.00
23000.00	-	-	-	-	-	-	-	-	5000.00
|	23800.00*	-53.95	-	-	-	-53.95	41.308	116.25	|
24000.00	-	-	-	-	-	-	-	-	5000.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
37.50	-	-	-	-	-	-	-	-	100.00
|	38.00*	-75.01	-	-	-	-75.01	20.247	10.289	|
38.25	-	-	-	-	-	-	-	-	100.00
73.00	-	-	-	-	-	-	-	-	100.00
|	74.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
74.60	-	-	-	-	-	-	-	-	100.00
74.80	-	-	-	-	-	-	-	-	100.00
|	75.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
75.20	-	-	-	-	-	-	-	-	100.00
108.00	-	-	-	-	-	-	-	-	100.00
|	115.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
121.94	-	-	-	-	-	-	-	-	100.00
123.00	-	-	-	-	-	-	-	-	100.00
|	130.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
138.00	-	-	-	-	-	-	-	-	100.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-	-	-	-	-	-	100.00
|	150.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
150.05	-	-	-	-	-	-	-	-	100.00
156.52	-	-	-	-	-	-	-	-	100.00
|	156.52*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.52	-	-	-	-	-	-	-	-	100.00
156.70	-	-	-	-	-	-	-	-	100.00
|	156.80*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.90	-	-	-	-	-	-	-	-	100.00
162.01	-	-	-	-	-	-	-	-	150.00
|	165.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
167.17	-	-	-	-	-	-	-	-	150.00
167.72	-	-	-	-	-	-	-	-	150.00
|	170.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
173.20	-	-	-	-	-	-	-	-	150.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
240.00	-	-	-	-	-	-	-	-	200.00
|	260.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
285.00	-	-	-	-	-	-	-	-	200.00
322.80	-	-	-	-	-	-	-	-	200.00
|	330.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
335.40	-	-	-	-	-	-	-	-	200.00
399.90	-	-	-	-	-	-	-	-	200.00
|	405.00*	-71.61	-	-	-	-71.61	23.647	15.218	|
410.00	-	-	-	-	-	-	-	-	200.00
608.00	-	-	-	-	-	-	-	-	200.00
|	611.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
614.00	-	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	-	500.00
|	975.00*	-70.00	-	-	-	-70.00	25.257	18.318	|
1240.00	-	-	-	-	-	-	-	-	500.00
1300.00	-	-	-	-	-	-	-	-	500.00
|	1350.00*	-72.80	-	-	-	-72.80	22.457	13.270	|
1427.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1435.00	-	-	-	-	-	-	-	-	500.00
|	1500.00*	-72.33	-	-	-	-72.33	22.928	14.008	|
1646.50	-	-	-	-	-	-	-	-	500.00
1660.00	-	-	-	-	-	-	-	-	500.00
|	1680.00*	-73.58	-	-	-	-73.58	21.678	12.131	|
1710.00	-	-	-	-	-	-	-	-	500.00
1718.80	-	-	-	-	-	-	-	-	500.00
|	1720.00*	-73.91	-	-	-	-73.91	21.348	11.678	|
1722.20	-	-	-	-	-	-	-	-	500.00
2200.00	-	-	-	-	-	-	-	-	500.00
|	2250.00*	-72.83	-	-	-	-72.83	22.428	13.224	|
2300.00	-	-	-	-	-	-	-	-	500.00
2310.00	-	-	-	-	-	-	-	-	500.00
|	2390.00	-50.46	4.4	-	-	-46.06	49.198	288.320	|
2390.00	-	-	-	-	-	-	-	-	500.00
2483.50	-	-	-	-	-	-	-	-	500.00
|	2483.50	-46.14	4.4	-	-	-41.74	53.518	474.110	|
2500.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2690.00	-	-	-	-	-	-	-	-	500.00
|	2750.00*	-71.85	-	-	-	-71.85	23.408	14.804	|
2900.00	-	-	-	-	-	-	-	-	500.00
3260.00	-	-	-	-	-	-	-	-	500.00
|	3263.00*	-71.68	-	-	-	-71.68	23.578	15.097	|
3267.00	-	-	-	-	-	-	-	-	500.00
3332.00	-	-	-	-	-	-	-	-	500.00
|	3336.00*	-71.94	-	-	-	-71.94	23.318	14.651	|
3339.00	-	-	-	-	-	-	-	-	500.00
3345.00	-	-	-	-	-	-	-	-	500.00
|	3350.00*	-70.76	-	-	-	-70.76	24.498	16.783	|
3358.00	-	-	-	-	-	-	-	-	500.00
3600.00	-	-	-	-	-	-	-	-	500.00
|	3700.00*	-70.48	-	-	-	-70.48	24.778	17.333	|
4400.00	-	-	-	-	-	-	-	-	500.00
4500.00	-	-	-	-	-	-	-	-	500.00
|	4944.00	-70.14	4.4	-	-	-65.74	29.518	29.914	|
5150.00	-	-	-	-	-	-	-	-	500.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
5350.00	-	-	-	-	-	-	-	-	500.00
|	5400.00*	-69.17	-	-	-	-69.17	26.088	20.155	|
5460.00	-	-	-	-	-	-	-	-	500.00
7250.00	-	-	-	-	-	-	-	-	500.00
|	7425.00*	-68.49	-	-	-	-68.49	26.767	21.796	|
7750.00	-	-	-	-	-	-	-	-	500.00
8025.00	-	-	-	-	-	-	-	-	500.00
|	8300.00*	-67.60	-	-	-	-67.60	27.658	24.148	|
8500.00	-	-	-	-	-	-	-	-	500.00
9000.00	-	-	-	-	-	-	-	-	500.00
|	9100.00*	-69.51	-	-	-	-69.51	25.538	19.381	|
9200.00	-	-	-	-	-	-	-	-	500.00
9300.00	-	-	-	-	-	-	-	-	500.00
|	9400.00*	-67.72	-	-	-	-67.72	27.838	23.817	|
9500.00	-	-	-	-	-	-	-	-	500.00
10600.00	-	-	-	-	-	-	-	-	500.00
|	12200.00*	-67.50	-	-	-	-67.50	27.757	24.427	|
12700.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
13250.00	-	-	-	-	-	-	-	-	500.00
|	15800.00*	-67.90	-	-	-	-67.90	27.358	23.328	|
16200.00	-	-	-	-	-	-	-	-	500.00
17700.00	-	-	-	-	-	-	-	-	500.00
|	19240.00*	-67.95	-	-	-	-67.95	27.308	23.194	|
21400.00	-	-	-	-	-	-	-	-	500.00
22010.00	-	-	-	-	-	-	-	-	500.00
|	22320.00*	-68.05	-	-	-	-68.05	27.208	22.929	|
23120.00	-	-	-	-	-	-	-	-	500.00
23000.00	-	-	-	-	-	-	-	-	500.00
|	23800.00*	-65.93	-	-	-	-65.93	29.328	29.267	|
24000.00	-	-	-	-	-	-	-	-	500.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch0 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1300.00	-	-	-	-	-	-	-	-	5000.00
|	1350.00*	-59.19	-	-	-	-59.19	36.068	63.589	|
1427.00	-	-	-	-	-	-	-	-	5000.00
1435.00	-	-	-	-	-	-	-	-	5000.00
|	1500.00*	-58.75	-	-	-	-58.75	36.508	66.893	|
1646.50	-	-	-	-	-	-	-	-	5000.00
1660.00	-	-	-	-	-	-	-	-	5000.00
|	1680.00*	-59.84	-	-	-	-59.84	35.418	59.004	|
1710.00	-	-	-	-	-	-	-	-	5000.00
1718.80	-	-	-	-	-	-	-	-	5000.00
|	1720.00*	-60.06	-	-	-	-60.06	35.198	57.528	|
1722.20	-	-	-	-	-	-	-	-	5000.00
2200.00	-	-	-	-	-	-	-	-	5000.00
|	2250.00*	-60.17	-	-	-	-60.17	35.088	56.804	|
2300.00	-	-	-	-	-	-	-	-	5000.00
2310.00	-	-	-	-	-	-	-	-	5000.00
|	2390.00	-30.53	4.4	-	-	-26.13	69.128	2860.100	|
2390.00	-	-	-	-	-	-	-	-	5000.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch0 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2483.50	-	-	-	-	-	-	-	-	5000.00
|	2483.50	-28.43	4.4	-	-	-24.03	71.228	3642.300	|
2500.00	-	-	-	-	-	-	-	-	5000.00
2690.00	-	-	-	-	-	-	-	-	5000.00
|	2750.00*	-58.93	-	-	-	-58.93	36.328	65.521	|
2900.00	-	-	-	-	-	-	-	-	5000.00
3260.00	-	-	-	-	-	-	-	-	5000.00
|	3263.00*	-58.36	-	-	-	-58.36	36.898	69.965	|
3267.00	-	-	-	-	-	-	-	-	5000.00
3332.00	-	-	-	-	-	-	-	-	5000.00
|	3336.00*	-58.35	-	-	-	-58.35	36.908	70.045	|
3339.00	-	-	-	-	-	-	-	-	5000.00
3345.00	-	-	-	-	-	-	-	-	5000.00
|	3350.00*	-58.39	-	-	-	-58.39	36.868	69.723	|
3358.00	-	-	-	-	-	-	-	-	5000.00
3600.00	-	-	-	-	-	-	-	-	5000.00
|	3700.00*	-58.37	-	-	-	-58.37	36.888	69.884	|
4400.00	-	-	-	-	-	-	-	-	5000.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch0 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
4500.00	-	-	-	-	-	-	-	-	5000.00
|	4884.00	-58.33	4.4	-	-	-53.93	41.328	116.510	|
5150.00	-	-	-	-	-	-	-	-	5000.00
5350.00	-	-	-	-	-	-	-	-	5000.00
|	5400.00*	-57.85	-	-	-	-57.85	37.408	74.196	|
5460.00	-	-	-	-	-	-	-	-	5000.00
7250.00	-	-	-	-	-	-	-	-	5000.00
|	7425.00*	-52.26	-	-	-	-52.26	42.997	141.214	|
7750.00	-	-	-	-	-	-	-	-	5000.00
8025.00	-	-	-	-	-	-	-	-	5000.00
|	8300.00*	-55.78	-	-	-	-55.78	39.478	94.163	|
8500.00	-	-	-	-	-	-	-	-	5000.00
9000.00	-	-	-	-	-	-	-	-	5000.00
|	9100.00*	-56.52	-	-	-	-56.52	38.738	86.473	|
9200.00	-	-	-	-	-	-	-	-	5000.00
9300.00	-	-	-	-	-	-	-	-	5000.00
|	9400.00*	-55.92	-	-	-	-55.92	39.338	92.657	|
9500.00	-	-	-	-	-	-	-	-	5000.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
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Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch0 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
10600.00	-	-	-	-	-	-	-	-	5000.00
|	12400.00*	-54.42	-	-	-	-54.42	40.837	110.123	|
12700.00	-	-	-	-	-	-	-	-	5000.00
13250.00	-	-	-	-	-	-	-	-	5000.00
|	15800.00*	-55.58	-	-	-	-55.58	39.678	96.356	|
16200.00	-	-	-	-	-	-	-	-	5000.00
17700.00	-	-	-	-	-	-	-	-	5000.00
|	19240.00*	-55.74	-	-	-	-55.74	39.518	94.597	|
21400.00	-	-	-	-	-	-	-	-	5000.00
22010.00	-	-	-	-	-	-	-	-	5000.00
|	22320.00*	-56.19	-	-	-	-56.19	39.068	89.821	|
23120.00	-	-	-	-	-	-	-	-	5000.00
23000.00	-	-	-	-	-	-	-	-	5000.00
|	23800.00*	-53.95	-	-	-	-53.95	41.308	116.25	|
24000.00	-	-	-	-	-	-	-	-	5000.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
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Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
37.50	-	-	-	-	-	-	-	-	100.00
|	38.00*	-75.01	-	-	-	-75.01	20.247	10.289	|
38.25	-	-	-	-	-	-	-	-	100.00
73.00	-	-	-	-	-	-	-	-	100.00
|	74.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
74.60	-	-	-	-	-	-	-	-	100.00
74.80	-	-	-	-	-	-	-	-	100.00
|	75.00*	-71.05	-	-	-	-71.05	24.207	16.232	|
75.20	-	-	-	-	-	-	-	-	100.00
108.00	-	-	-	-	-	-	-	-	100.00
|	115.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
121.94	-	-	-	-	-	-	-	-	100.00
123.00	-	-	-	-	-	-	-	-	100.00
|	130.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
138.00	-	-	-	-	-	-	-	-	100.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

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Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
149.90	-	-	-	-	-	-	-	-	100.00
|	150.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
150.05	-	-	-	-	-	-	-	-	100.00
156.52	-	-	-	-	-	-	-	-	100.00
|	156.52*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.52	-	-	-	-	-	-	-	-	100.00
156.70	-	-	-	-	-	-	-	-	100.00
|	156.80*	-71.59	-	-	-	-71.59	23.667	15.253	|
156.90	-	-	-	-	-	-	-	-	100.00
162.01	-	-	-	-	-	-	-	-	150.00
|	165.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
167.17	-	-	-	-	-	-	-	-	150.00
167.72	-	-	-	-	-	-	-	-	150.00
|	170.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
173.20	-	-	-	-	-	-	-	-	150.00

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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
240.00	-	-	-	-	-	-	-	-	200.00
|	260.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
285.00	-	-	-	-	-	-	-	-	200.00
322.80	-	-	-	-	-	-	-	-	200.00
|	330.00*	-71.25	-	-	-	-71.25	24.007	15.862	|
335.40	-	-	-	-	-	-	-	-	200.00
399.90	-	-	-	-	-	-	-	-	200.00
|	405.00*	-71.61	-	-	-	-71.61	23.647	15.218	|
410.00	-	-	-	-	-	-	-	-	200.00
608.00	-	-	-	-	-	-	-	-	200.00
|	611.00*	-71.59	-	-	-	-71.59	23.667	15.253	|
614.00	-	-	-	-	-	-	-	-	200.00
960.00	-	-	-	-	-	-	-	-	500.00
|	975.00*	-70.00	-	-	-	-70.00	25.257	18.318	|
1240.00	-	-	-	-	-	-	-	-	500.00
1300.00	-	-	-	-	-	-	-	-	500.00
|	1350.00*	-72.80	-	-	-	-72.80	22.457	13.270	|
1427.00	-	-	-	-	-	-	-	-	500.00

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TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1435.00	-	-	-	-	-	-	-	-	500.00
|	1500.00*	-72.33	-	-	-	-72.33	22.928	14.008	|
1646.50	-	-	-	-	-	-	-	-	500.00
1660.00	-	-	-	-	-	-	-	-	500.00
|	1680.00*	-73.58	-	-	-	-73.58	21.678	12.131	|
1710.00	-	-	-	-	-	-	-	-	500.00
1718.80	-	-	-	-	-	-	-	-	500.00
|	1720.00*	-73.91	-	-	-	-73.91	21.348	11.678	|
1722.20	-	-	-	-	-	-	-	-	500.00
2200.00	-	-	-	-	-	-	-	-	500.00
|	2250.00*	-72.83	-	-	-	-72.83	22.428	13.224	|
2300.00	-	-	-	-	-	-	-	-	500.00
2310.00	-	-	-	-	-	-	-	-	500.00
|	2390.00	-51.39	2.7	-	-	-48.69	46.568	213.000	|
2390.00	-	-	-	-	-	-	-	-	500.00
2483.50	-	-	-	-	-	-	-	-	500.00
|	2483.50	-46.55	2.7	-	-	-43.85	51.408	371.860	|
2500.00	-	-	-	-	-	-	-	-	500.00

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Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2690.00	-	-	-	-	-	-	-	-	500.00
|	2750.00*	-71.85	-	-	-	-71.85	23.408	14.804	|
2900.00	-	-	-	-	-	-	-	-	500.00
3260.00	-	-	-	-	-	-	-	-	500.00
|	3263.00*	-71.68	-	-	-	-71.68	23.578	15.097	|
3267.00	-	-	-	-	-	-	-	-	500.00
3332.00	-	-	-	-	-	-	-	-	500.00
|	3336.00*	-71.94	-	-	-	-71.94	23.318	14.651	|
3339.00	-	-	-	-	-	-	-	-	500.00
3345.00	-	-	-	-	-	-	-	-	500.00
|	3350.00*	-70.76	-	-	-	-70.76	24.498	16.783	|
3358.00	-	-	-	-	-	-	-	-	500.00
3600.00	-	-	-	-	-	-	-	-	500.00
|	3700.00*	-70.48	-	-	-	-70.48	24.778	17.333	|
4400.00	-	-	-	-	-	-	-	-	500.00
4500.00	-	-	-	-	-	-	-	-	500.00
|	4884.00	-70.09	2.7	-	-	-67.39	27.868	24.739	|
5150.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
5350.00	-	-	-	-	-	-	-	-	500.00
|	5400.00*	-69.17	-	-	-	-69.17	26.088	20.155	|
5460.00	-	-	-	-	-	-	-	-	500.00
7250.00	-	-	-	-	-	-	-	-	500.00
|	7425.00*	-68.49	-	-	-	-68.49	26.767	21.796	|
7750.00	-	-	-	-	-	-	-	-	500.00
8025.00	-	-	-	-	-	-	-	-	500.00
|	8300.00*	-67.60	-	-	-	-67.60	27.658	24.148	|
8500.00	-	-	-	-	-	-	-	-	500.00
9000.00	-	-	-	-	-	-	-	-	500.00
|	9100.00*	-69.51	-	-	-	-69.51	25.538	19.381	|
9200.00	-	-	-	-	-	-	-	-	500.00
9300.00	-	-	-	-	-	-	-	-	500.00
|	9400.00*	-67.72	-	-	-	-67.72	27.838	23.817	|
9500.00	-	-	-	-	-	-	-	-	500.00
10600.00	-	-	-	-	-	-	-	-	500.00
|	12200.00*	-67.50	-	-	-	-67.50	27.757	24.427	|
12700.00	-	-	-	-	-	-	-	-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Quasi-Peak <1GHz, Average >1GHz X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
13250.00	-	-	-	-	-	-	-	-	500.00
|	15800.00*	-67.90	-	-	-	-67.90	27.358	23.328	|
16200.00	-	-	-	-	-	-	-	-	500.00
17700.00	-	-	-	-	-	-	-	-	500.00
|	19240.00*	-67.95	-	-	-	-67.95	27.308	23.194	|
21400.00	-	-	-	-	-	-	-	-	500.00
22010.00	-	-	-	-	-	-	-	-	500.00
|	22320.00*	-68.05	-	-	-	-68.05	27.208	22.929	|
23120.00	-	-	-	-	-	-	-	-	500.00
23000.00	-	-	-	-	-	-	-	-	500.00
|	23800.00*	-65.93	-	-	-	-65.93	29.328	29.267	|
24000.00	-	-	-	-	-	-	-	-	500.00

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch1 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
1300.00	-	-	-	-	-	-	-	-	5000.00
|	1350.00*	-59.19	-	-	-	-59.19	36.068	63.589	|
1427.00	-	-	-	-	-	-	-	-	5000.00
1435.00	-	-	-	-	-	-	-	-	5000.00
|	1500.00*	-58.75	-	-	-	-58.75	36.508	66.893	|
1646.50	-	-	-	-	-	-	-	-	5000.00
1660.00	-	-	-	-	-	-	-	-	5000.00
|	1680.00*	-59.84	-	-	-	-59.84	35.418	59.004	|
1710.00	-	-	-	-	-	-	-	-	5000.00
1718.80	-	-	-	-	-	-	-	-	5000.00
|	1720.00*	-60.06	-	-	-	-60.06	35.198	57.528	|
1722.20	-	-	-	-	-	-	-	-	5000.00
2200.00	-	-	-	-	-	-	-	-	5000.00
|	2250.00*	-60.17	-	-	-	-60.17	35.088	56.804	|
2300.00	-	-	-	-	-	-	-	-	5000.00
2310.00	-	-	-	-	-	-	-	-	5000.00
|	2390.00	-29.88	2.7	-	-	-27.18	68.078	2534.400	|
2390.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	

Notes: Ch1 Detector: Peak X= 0.0

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
2483.50	-	-	-	-	-	-	-	-	5000.00
|	2483.50	-29.35	2.7	-	-	-26.65	68.608	2693.900	|
2500.00	-	-	-	-	-	-	-	-	5000.00
2690.00	-	-	-	-	-	-	-	-	5000.00
|	2750.00*	-58.93	-	-	-	-58.93	36.328	65.521	|
2900.00	-	-	-	-	-	-	-	-	5000.00
3260.00	-	-	-	-	-	-	-	-	5000.00
|	3263.00*	-58.36	-	-	-	-58.36	36.898	69.965	|
3267.00	-	-	-	-	-	-	-	-	5000.00
3332.00	-	-	-	-	-	-	-	-	5000.00
|	3336.00*	-58.35	-	-	-	-58.35	36.908	70.045	|
3339.00	-	-	-	-	-	-	-	-	5000.00
3345.00	-	-	-	-	-	-	-	-	5000.00
|	3350.00*	-58.39	-	-	-	-58.39	36.868	69.723	|
3358.00	-	-	-	-	-	-	-	-	5000.00
3600.00	-	-	-	-	-	-	-	-	5000.00
|	3700.00*	-58.37	-	-	-	-58.37	36.888	69.884	|
4400.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch1 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
4500.00	-	-	-	-	-	-	-	-	5000.00
|	4884.00	-58.10	2.7	-	-	-55.40	39.858	98.374	|
5150.00	-	-	-	-	-	-	-	-	5000.00
5350.00	-	-	-	-	-	-	-	-	5000.00
|	5400.00*	-57.85	-	-	-	-57.85	37.408	74.196	|
5460.00	-	-	-	-	-	-	-	-	5000.00
7250.00	-	-	-	-	-	-	-	-	5000.00
|	7425.00*	-52.26	-	-	-	-52.26	42.997	141.214	|
7750.00	-	-	-	-	-	-	-	-	5000.00
8025.00	-	-	-	-	-	-	-	-	5000.00
|	8300.00*	-55.78	-	-	-	-55.78	39.478	94.163	|
8500.00	-	-	-	-	-	-	-	-	5000.00
9000.00	-	-	-	-	-	-	-	-	5000.00
|	9100.00*	-56.52	-	-	-	-56.52	38.738	86.473	|
9200.00	-	-	-	-	-	-	-	-	5000.00
9300.00	-	-	-	-	-	-	-	-	5000.00
|	9400.00*	-55.92	-	-	-	-55.92	39.338	92.657	|
9500.00	-	-	-	-	-	-	-	-	5000.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	ARRIS	
Job Number	R-6288N-7	
Test Sample	Set Top Box	
Model Number	AX061AEI	
Serial Number	M11742TK0102	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting modulated 40MHz signal at 2432 MHz and 2442MHz consecutively.	
Technician	M. Seamans	
Date	January 22nd, 2018	
Notes: Ch1 Detector: Peak X= 0.0		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Antenna Gain	Duty Cycle Factor 10log(1/x)	Duty Cycle Factor 20log(x)	Corrected Reading	Converted Field Strength	Converted Reading	Limit at 3M
MHz	MHz	dBm	dB	dB	dBm	dBm	dBuV/m	uV/m	uV/m
10600.00	-	-	-	-	-	-	-	-	5000.00
|	12400.00*	-54.42	-	-	-	-54.42	40.837	110.123	|
12700.00	-	-	-	-	-	-	-	-	5000.00
13250.00	-	-	-	-	-	-	-	-	5000.00
|	15800.00*	-55.58	-	-	-	-55.58	39.678	96.356	|
16200.00	-	-	-	-	-	-	-	-	5000.00
17700.00	-	-	-	-	-	-	-	-	5000.00
|	19240.00*	-55.74	-	-	-	-55.74	39.518	94.597	|
21400.00	-	-	-	-	-	-	-	-	5000.00
22010.00	-	-	-	-	-	-	-	-	5000.00
|	22320.00*	-56.19	-	-	-	-56.19	39.068	89.821	|
23120.00	-	-	-	-	-	-	-	-	5000.00
23000.00	-	-	-	-	-	-	-	-	5000.00
|	23800.00*	-53.95	-	-	-	-53.95	41.308	116.25	|
24000.00	-	-	-	-	-	-	-	-	5000.00

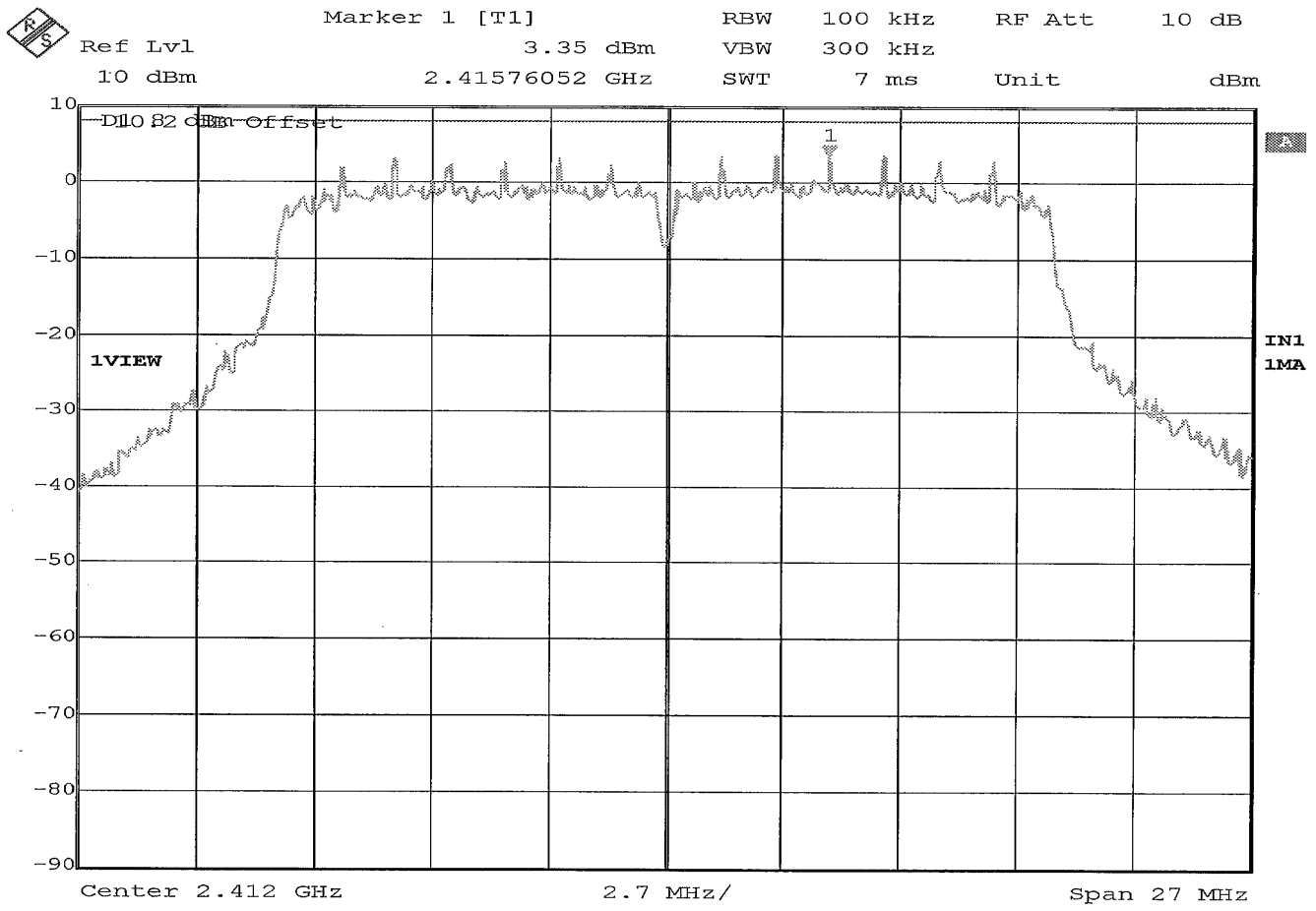
No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Test Photographs
Antenna Port, Power Density

Test Setup

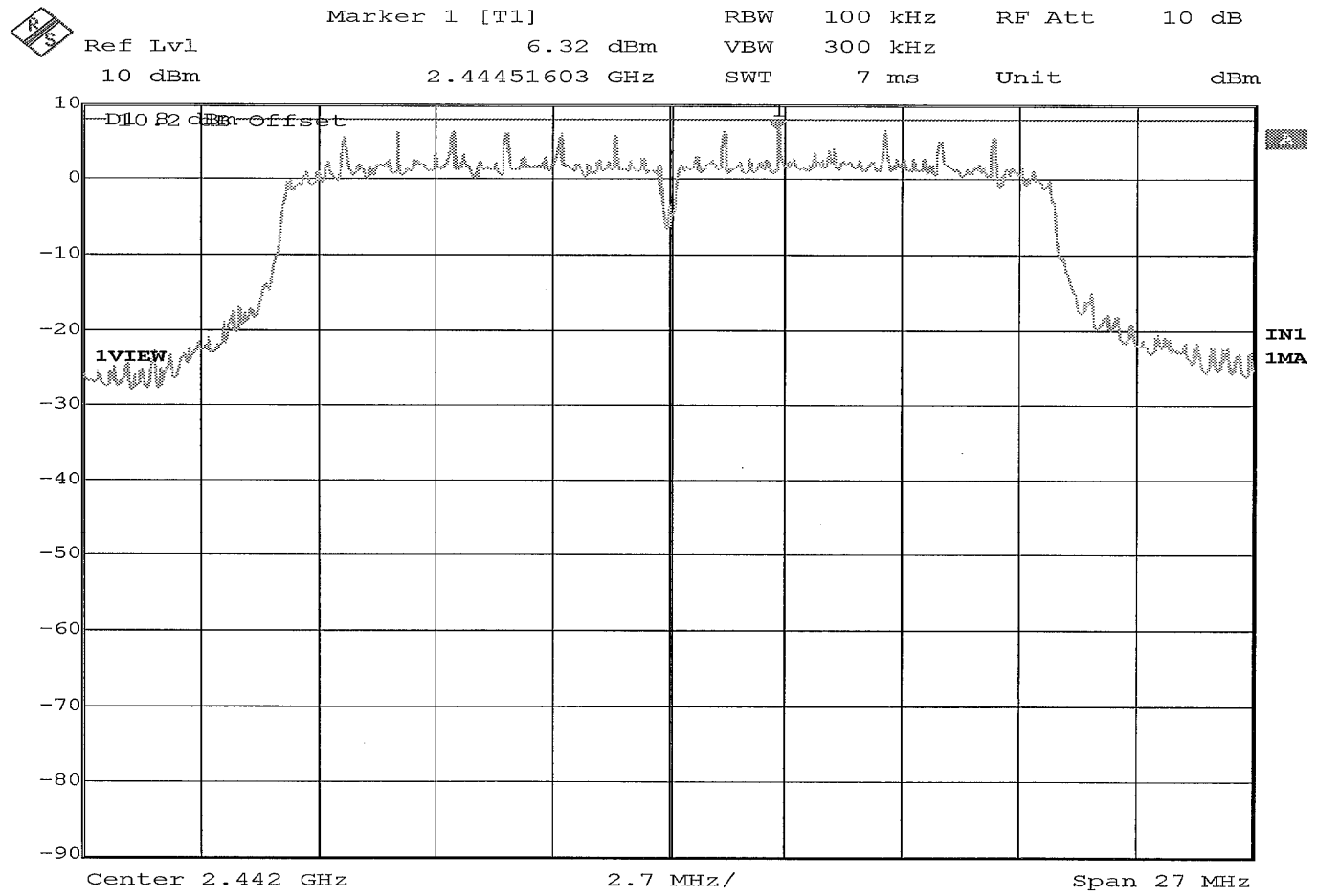
FCC Part 15, Subpart C, Section 15.247(e)
Antenna Port, Power Density
Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: 3.35 dBm



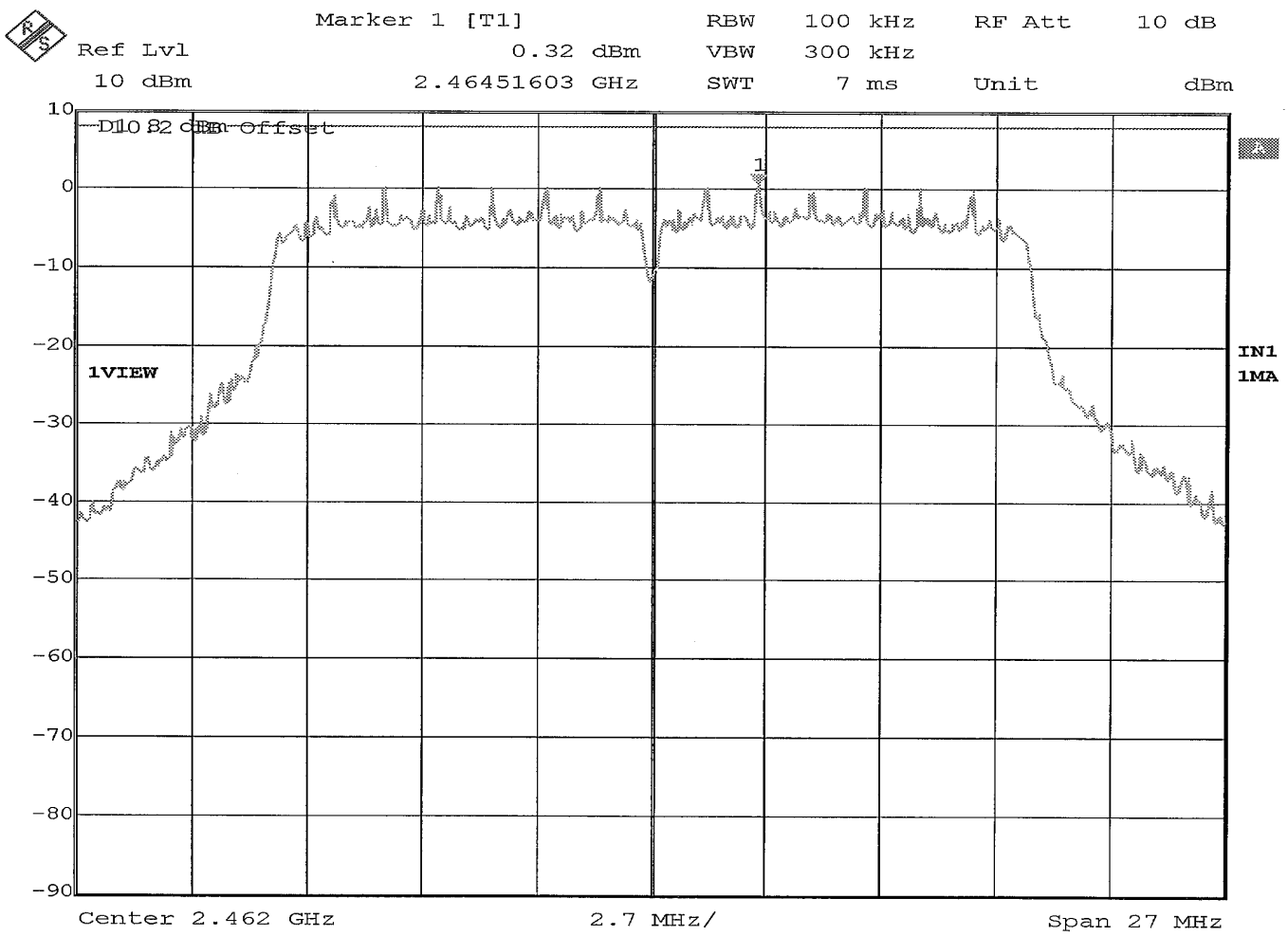
Port: Ch0 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: 6.32 dBm



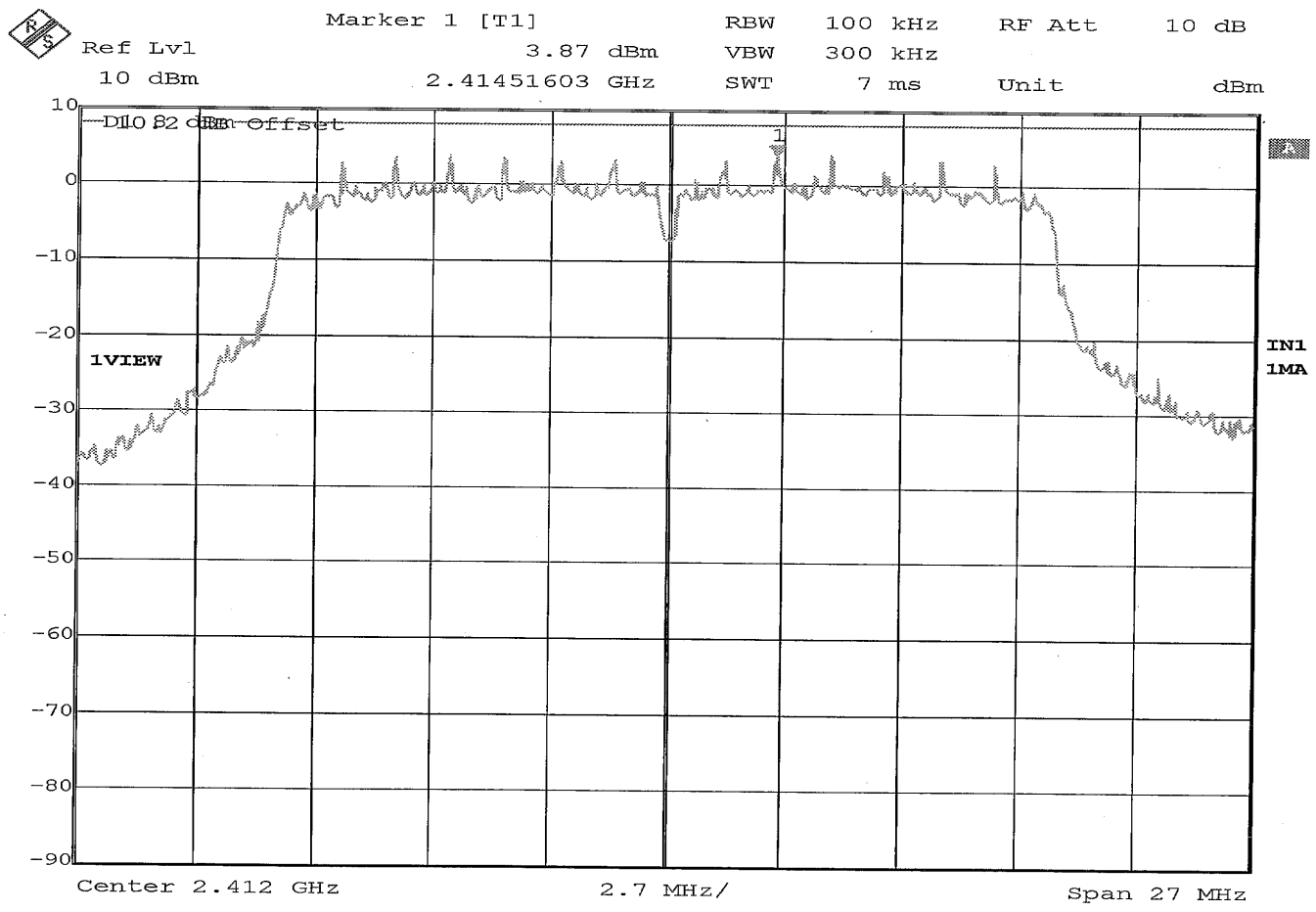
Port: Ch0 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: 0.32 dBm



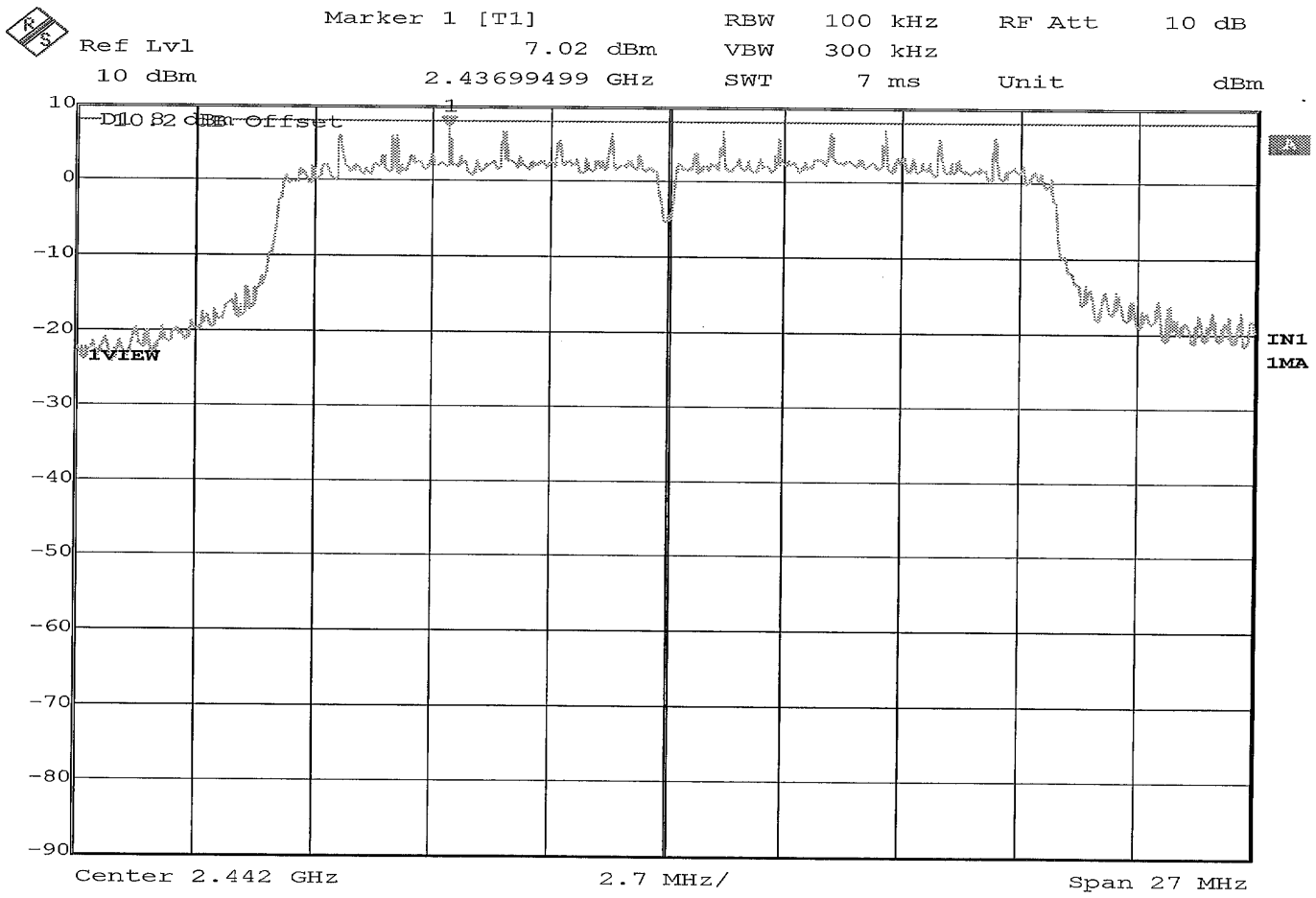
Port: Ch0 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: 3.87 dBm



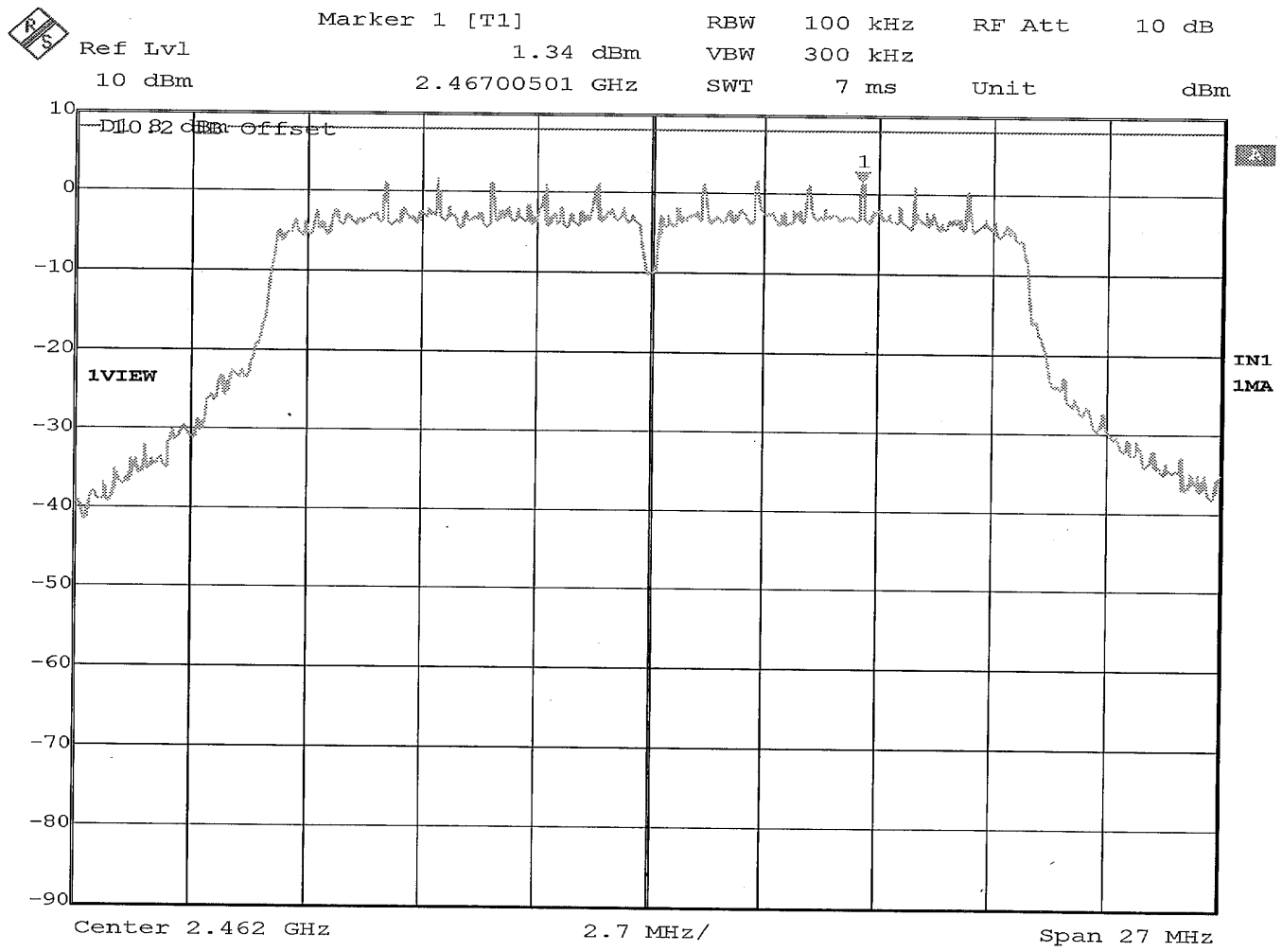
Port: Ch1 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: 7.02 dBm



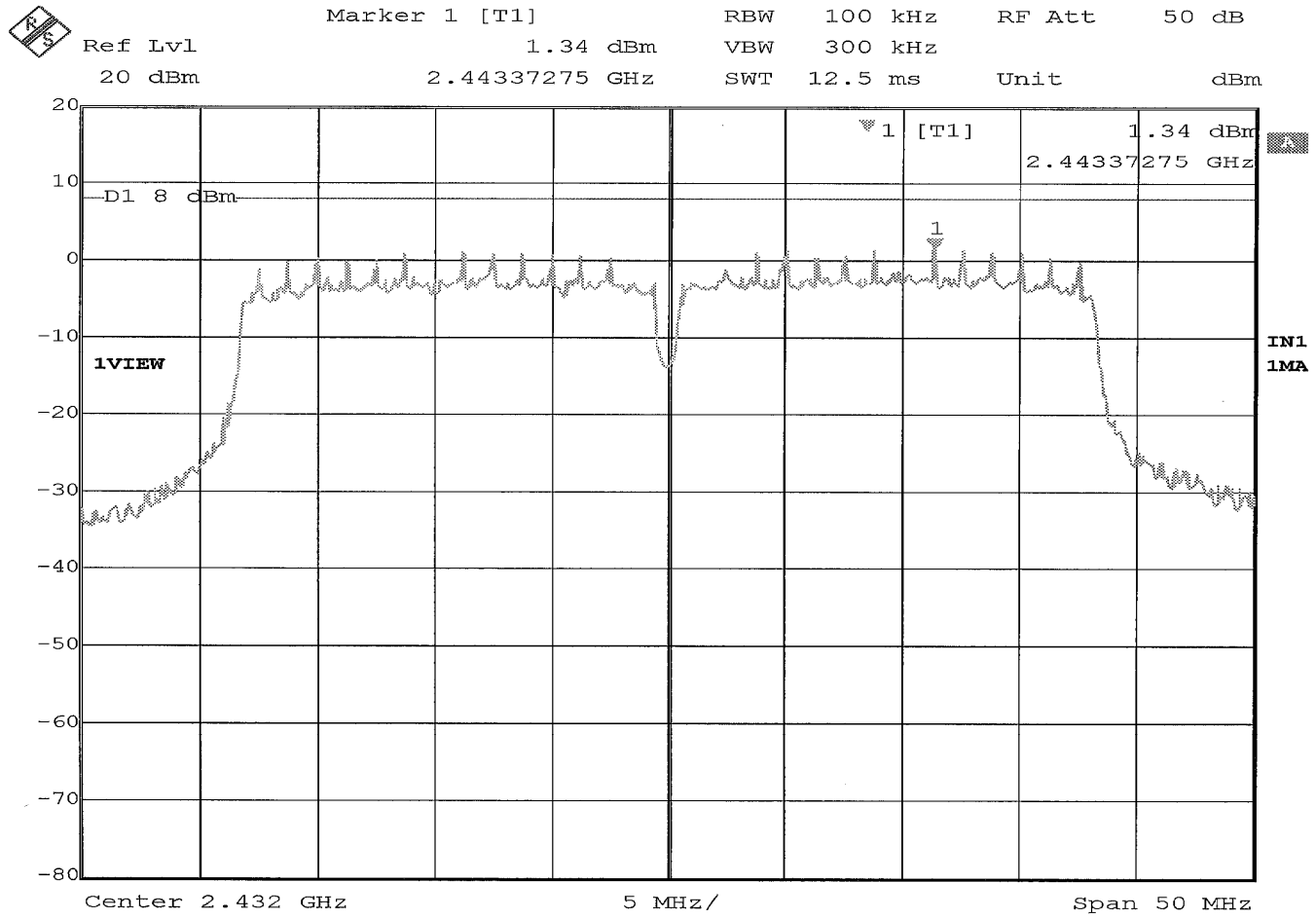
Port: Ch1 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: 1.34 dBm



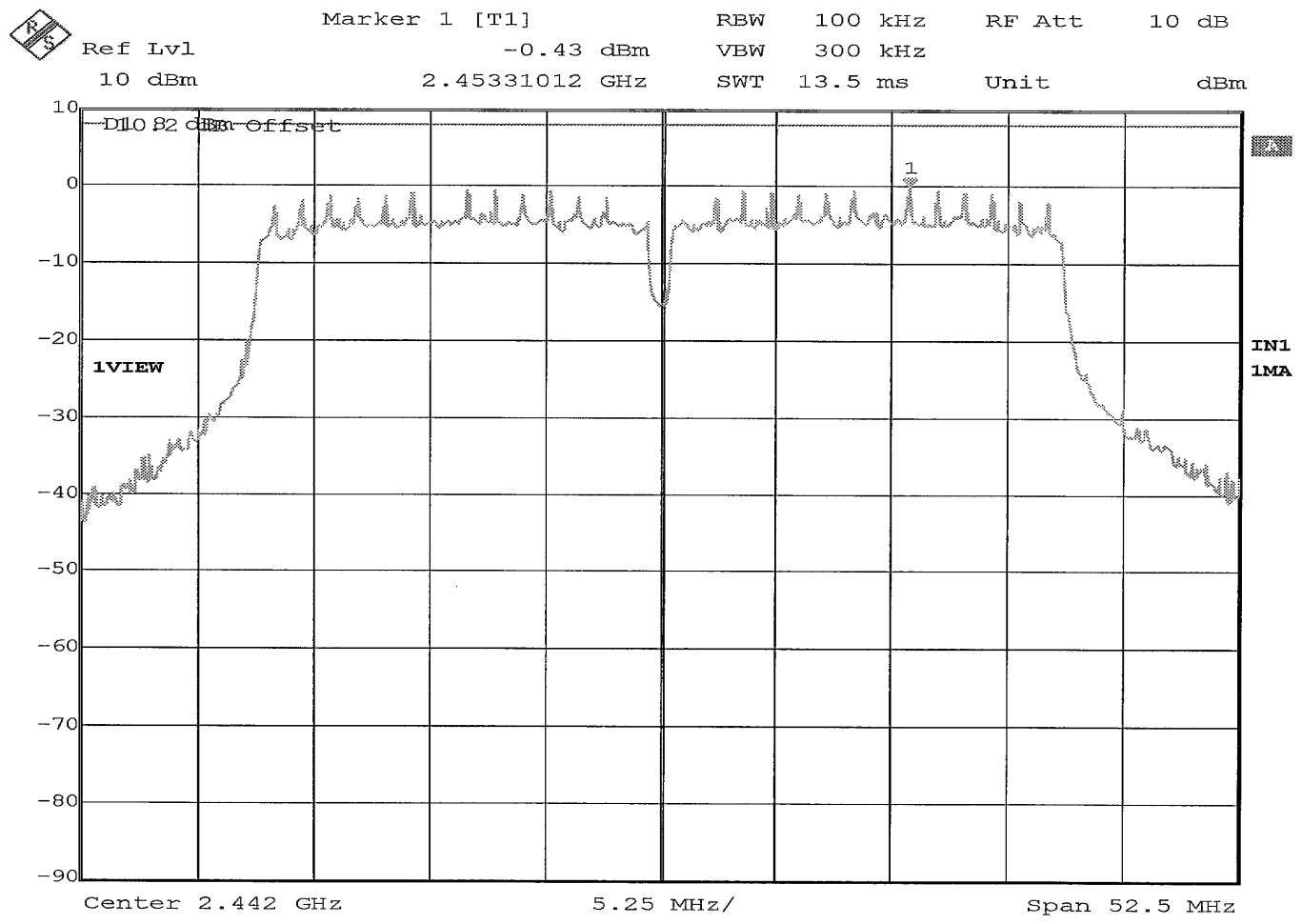
Port: Ch1 Channel Width: 20MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Results:	Power Spectral Density: 1.34 dBm



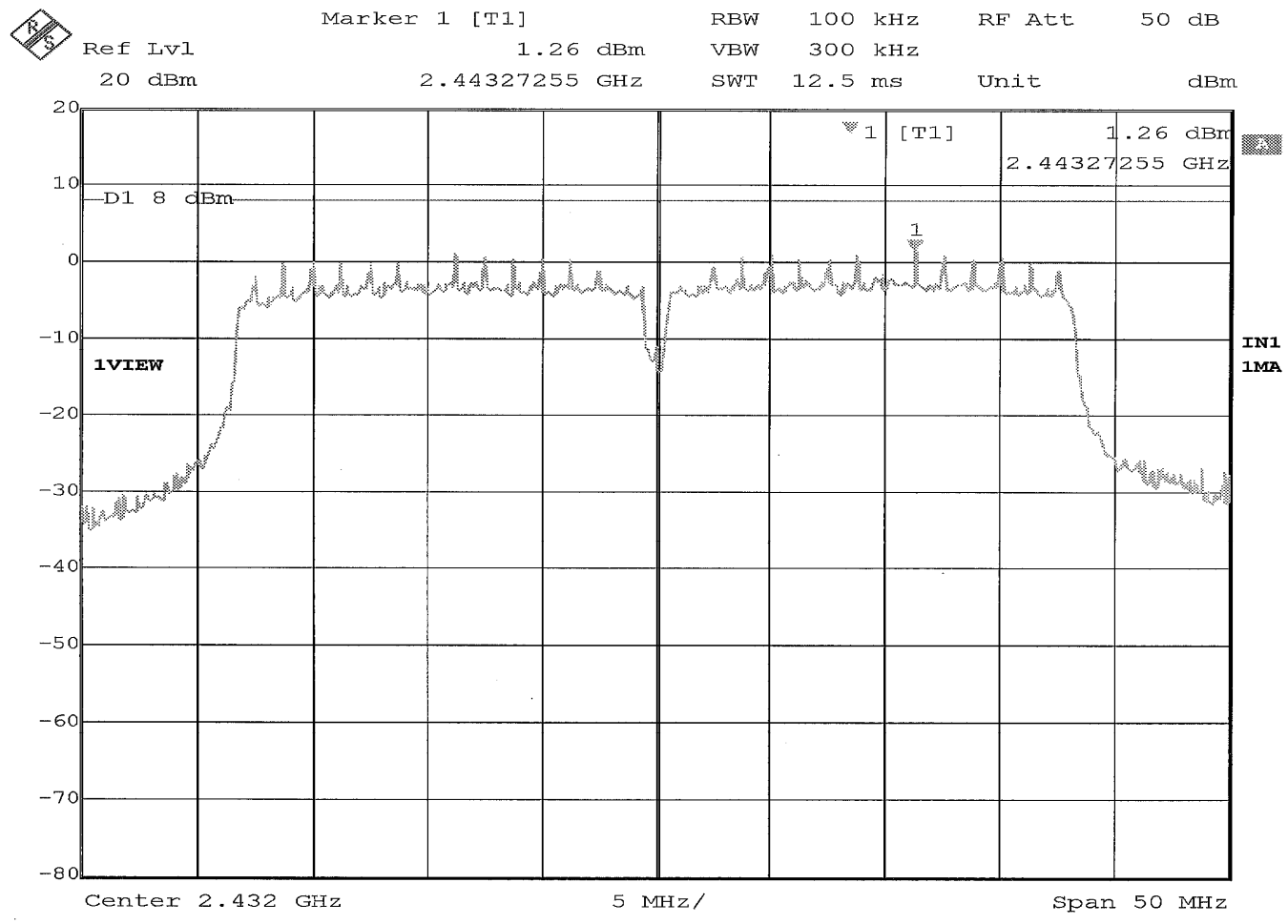
Port: Ch0 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -0.43 dBm



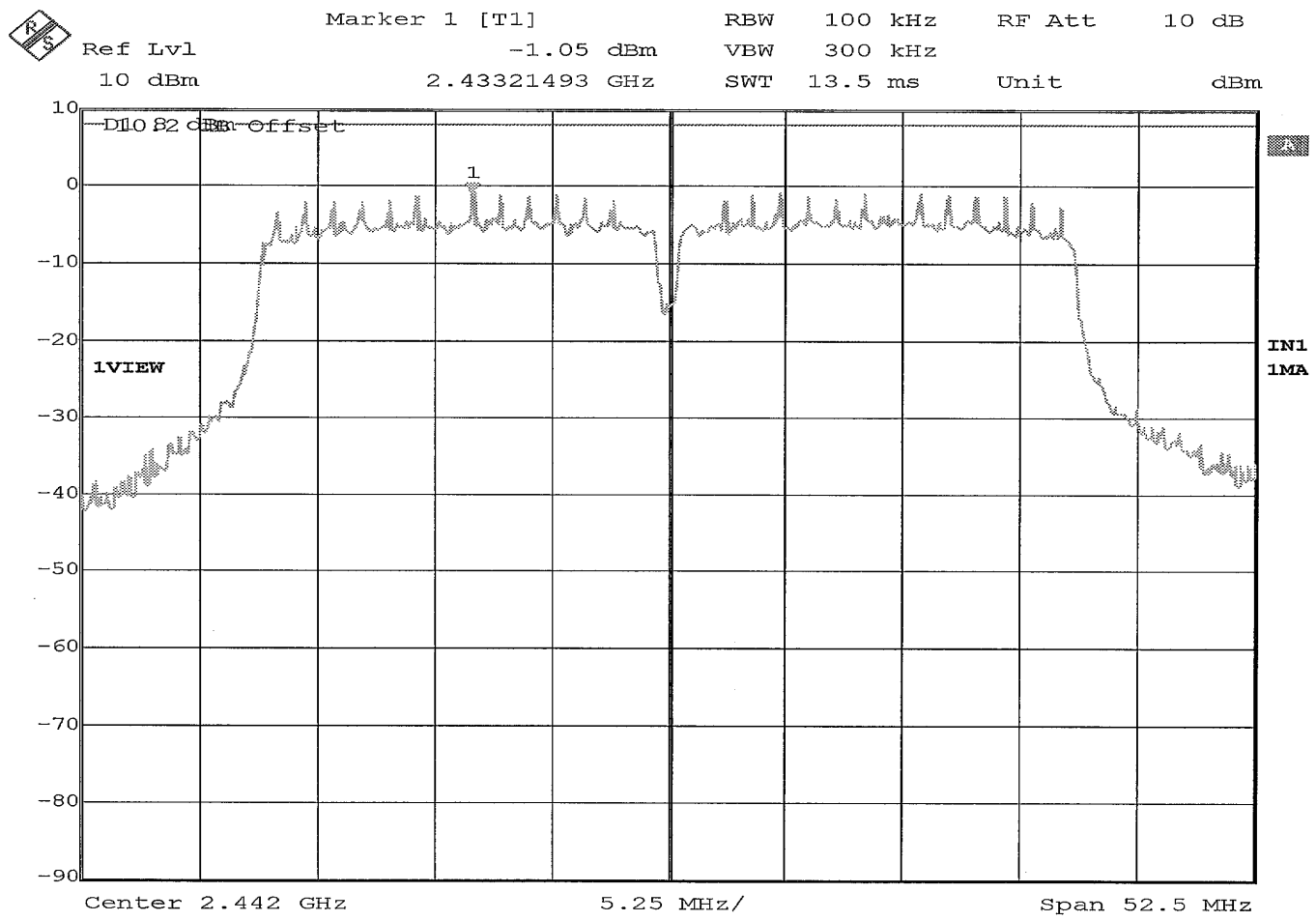
Port: Ch0 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.432 GHz
Technician:	M.Seamans
Date(s):	March 27th, 2018
Temp/ Relative Humidity:	21.5 °C / 20.5 %
Results:	Power Spectral Density: 1.26 dBm



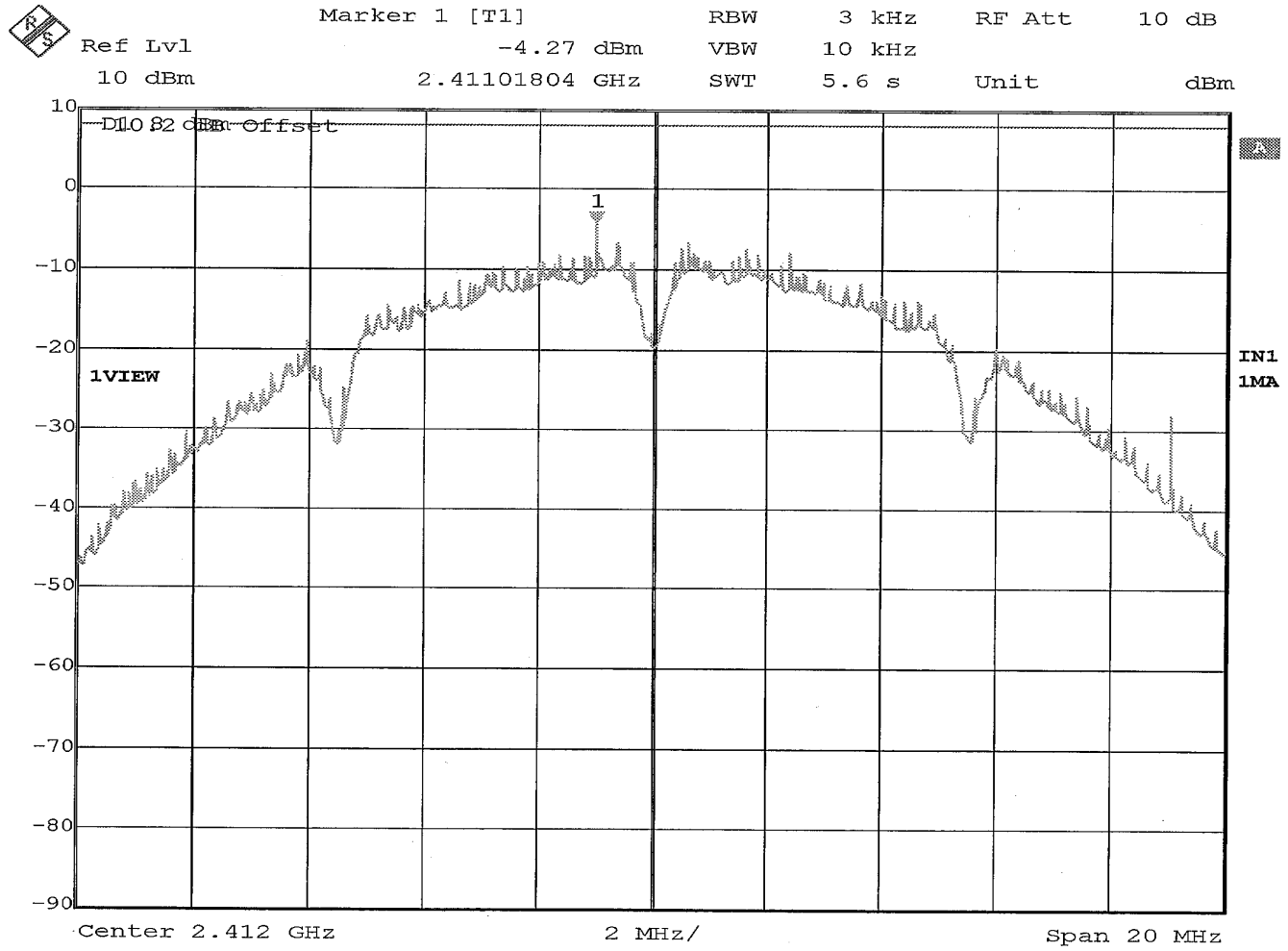
Port: Ch1 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -1.05 dBm



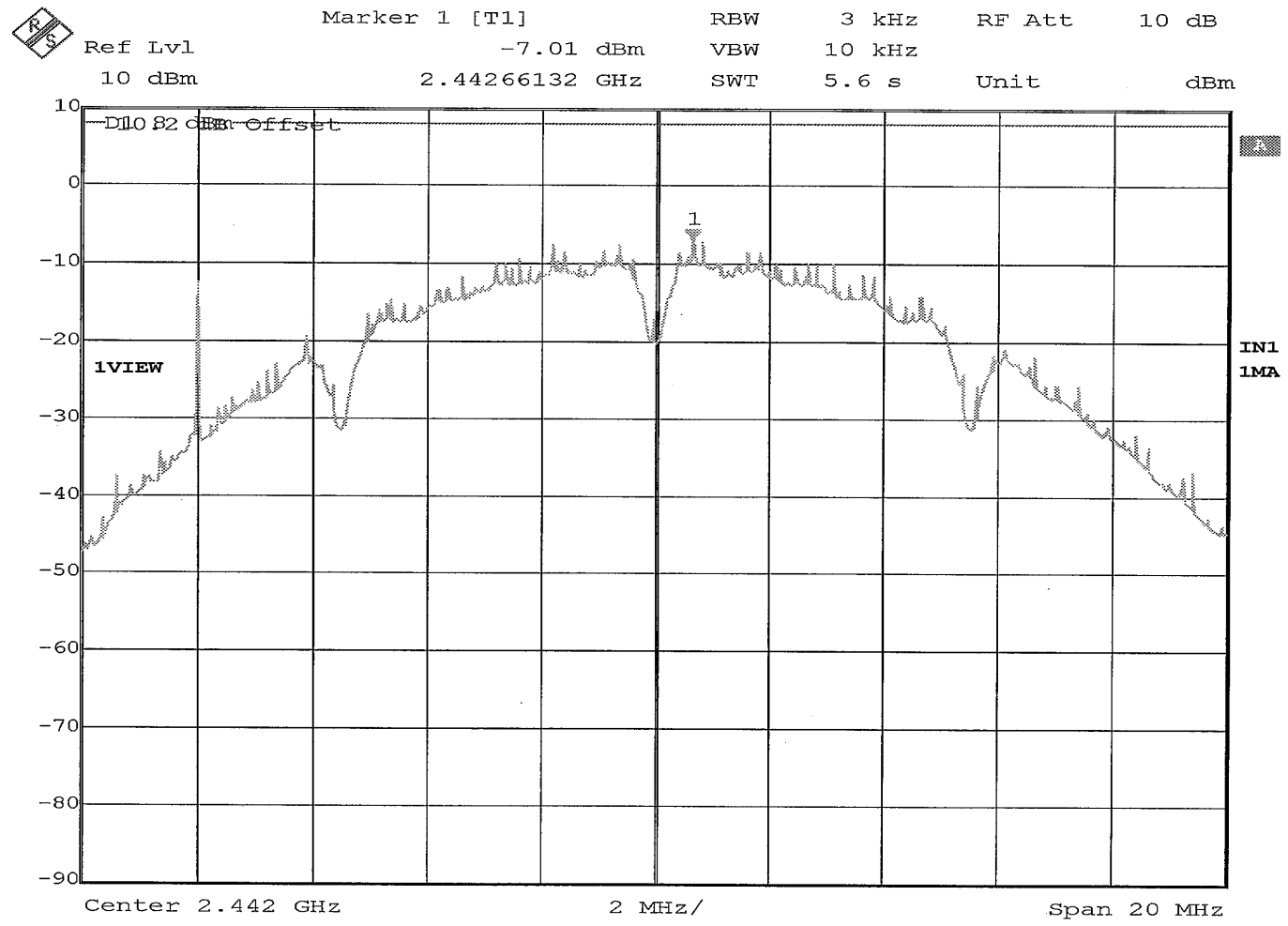
Port: Ch1 Channel Width: 40MHz

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -4.27 dBm



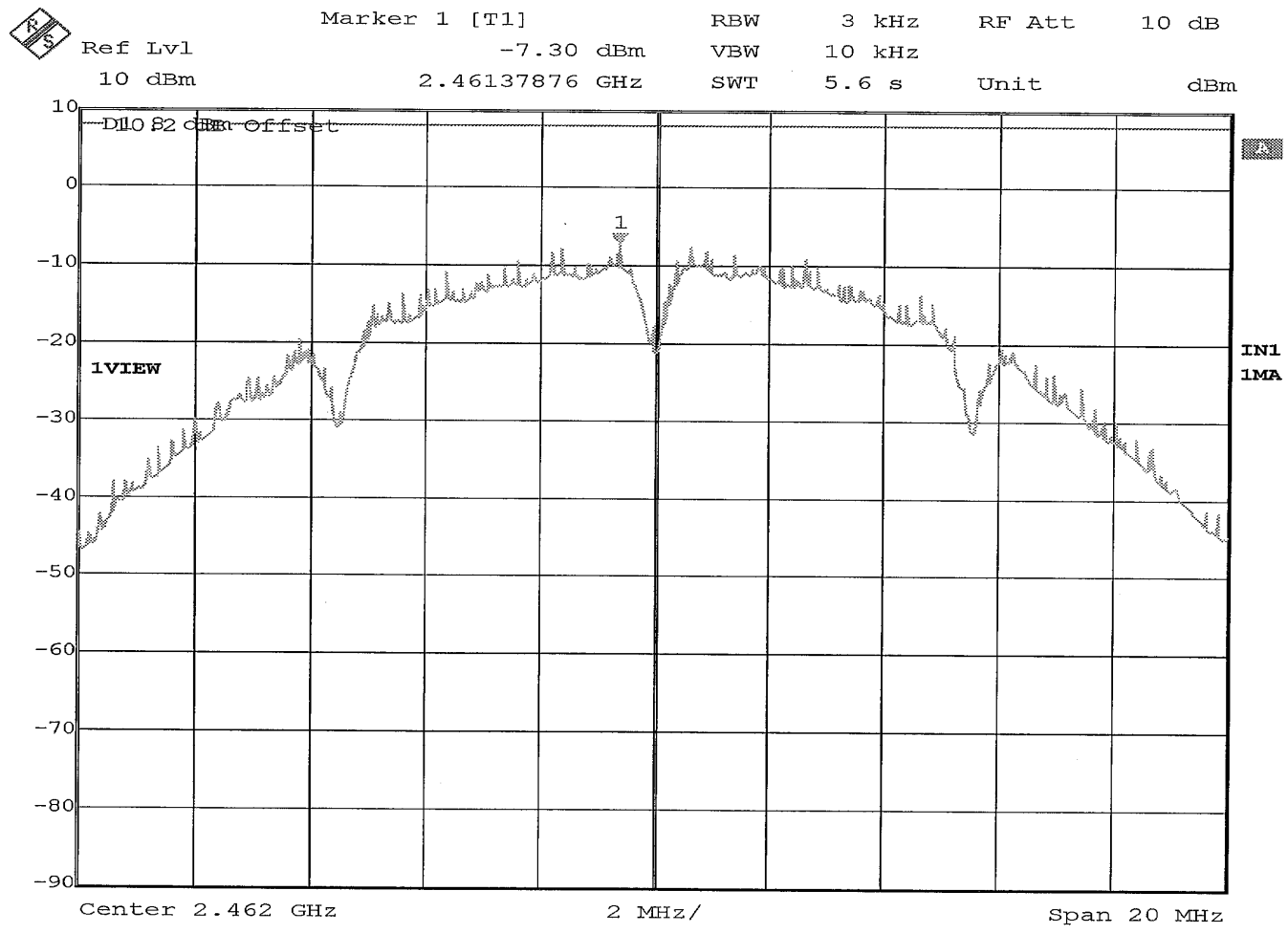
Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -7.01 dBm



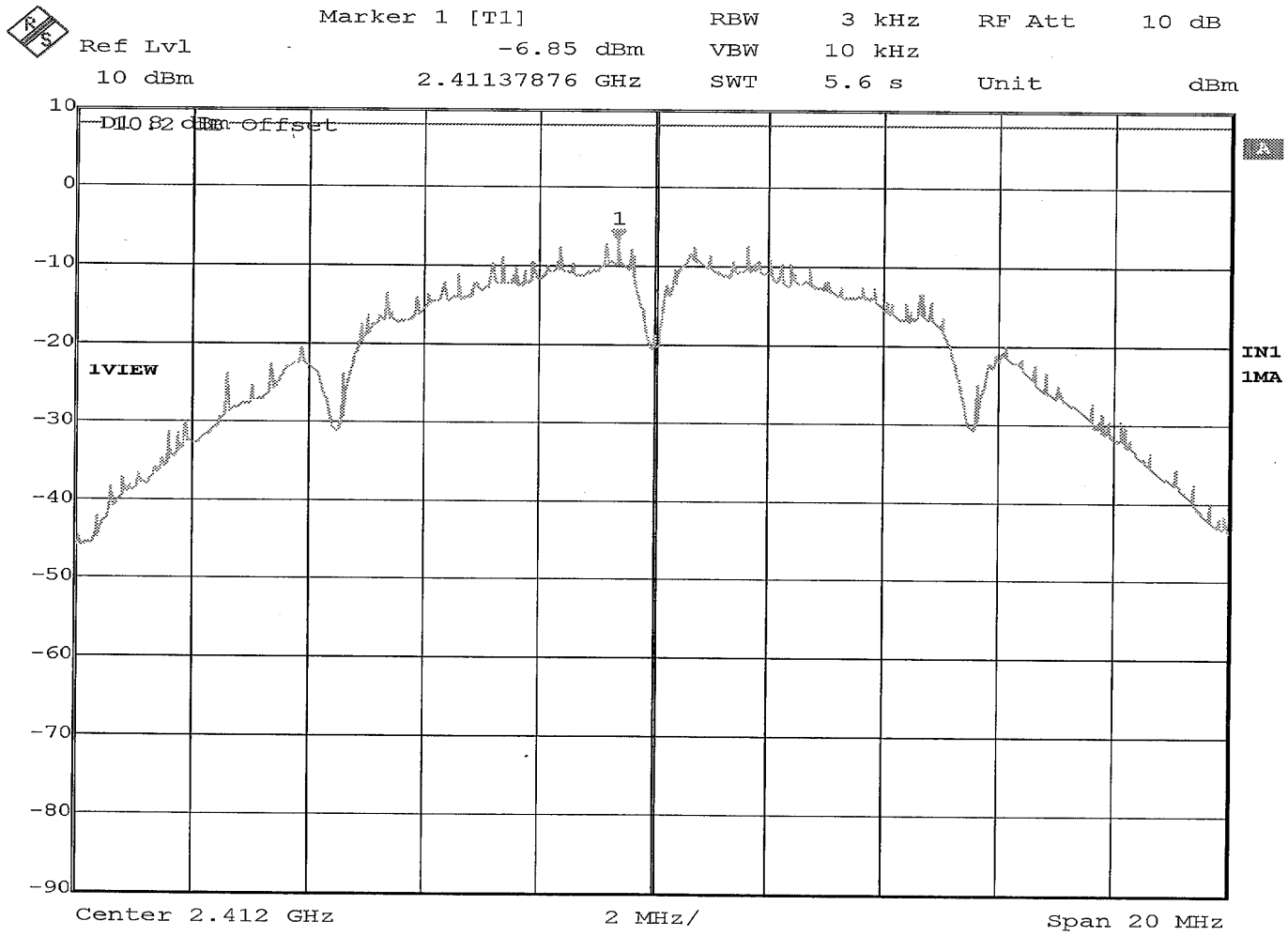
Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density:-7.30 dBm



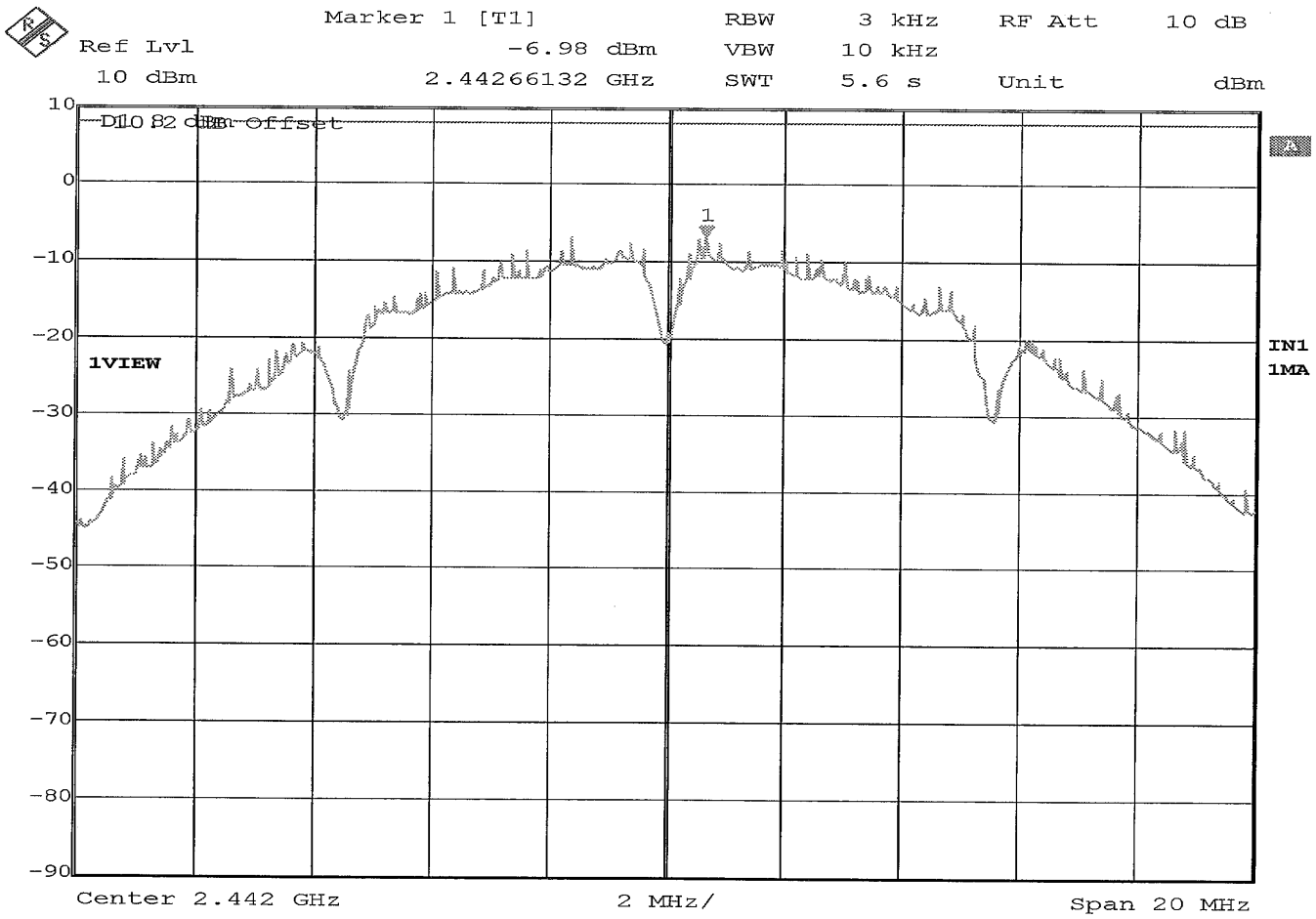
Port: Ch0 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.412 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -6.85 dBm



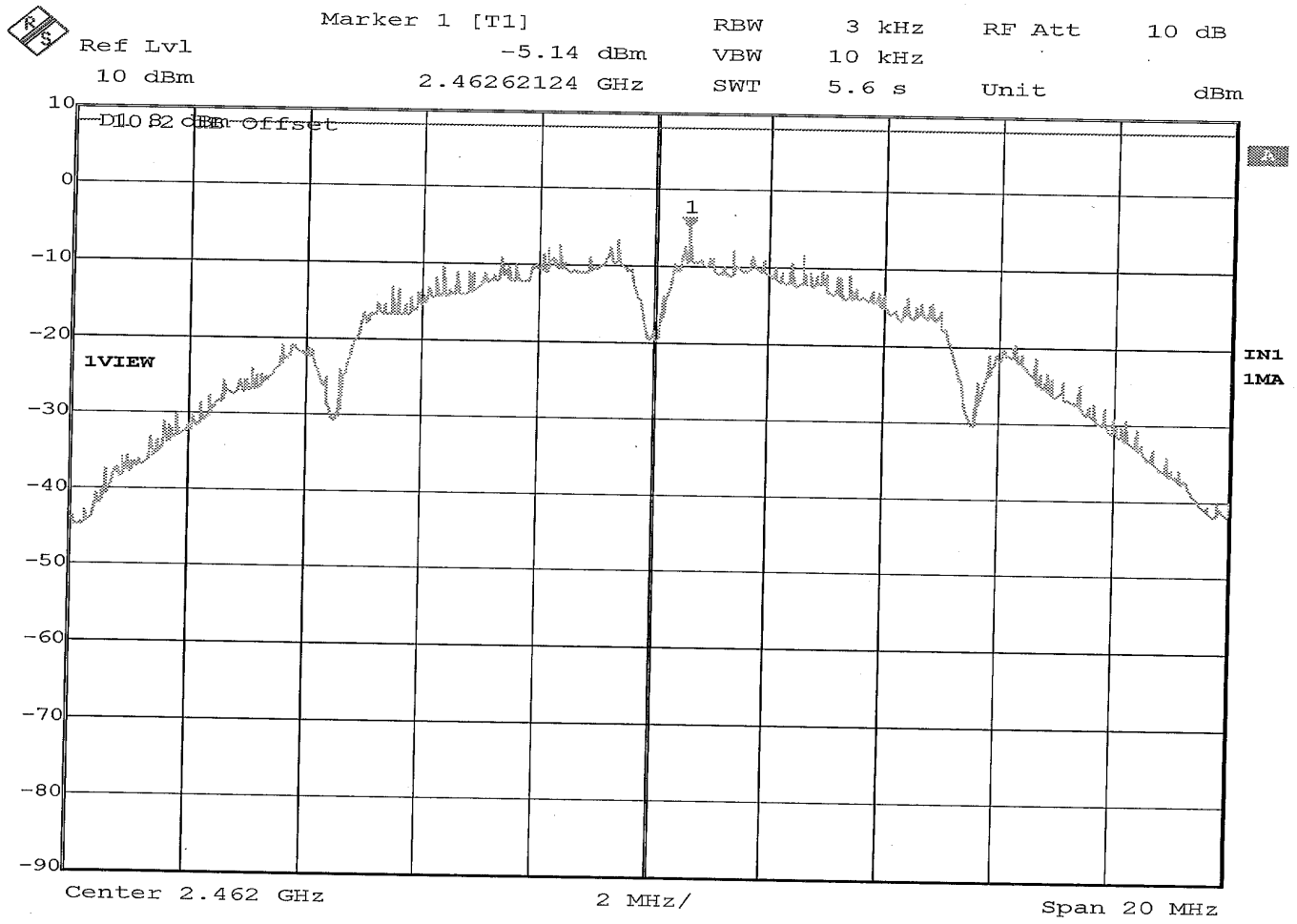
Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.442 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -6.98 dBm



Port: Ch1 Modulation: CCK

EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6288N-7
Customer:	ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Serial Number:	M11742TK0102
Operating Mode:	Transmitting modulated signal at 2.462 GHz
Technician:	M.Seamans
Date(s):	January 22nd, 2018
Temp/ Relative Humidity:	20.5 °C / 19.8 %
Results:	Power Spectral Density: -5.14 dBm



Port: Ch1 Modulation: CCK

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

EUT Configuration

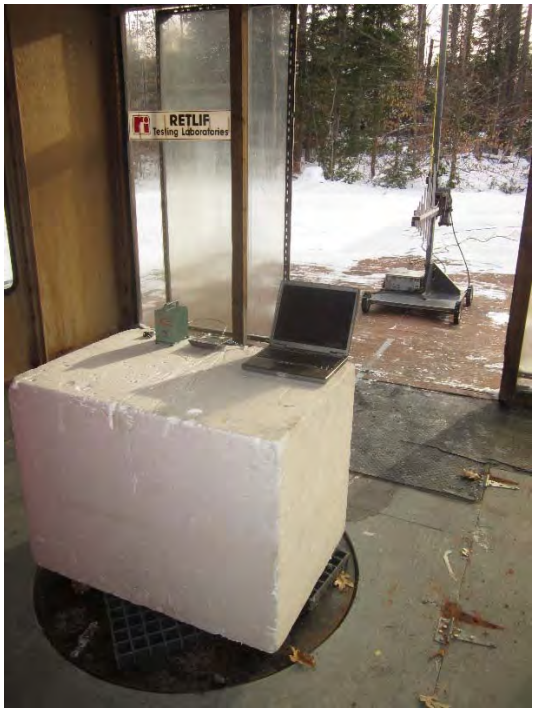
Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 30 MHz – 200 MHz, Biconical Antenna

Vertical Polarization, 30 MHz – 200 MHz, Biconical Antenna

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 200 MHz - 1 GHz, Log Periodic



Vertical Polarization, 200 MHz - 1 GHz, Log Periodic

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 1- 18 GHz, Double Ridge Guide

Vertical Polarization, 1- 18 GHz, Double Ridge Guide

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 18- 25 GHz, High Gain Horn

Vertical Polarization, 18- 25 GHz, High Gain Horn

Test Photographs
Spurious Radiated Emissions, 9 kHz to 40 GHz

Loop Antenna, 9 kHz to 30 MHz

Test Photographs
Spurious Radiated Emissions, 9 kHz to 40 GHz

Horizontal Polarization, 30 MHz – 200 MHz, Biconical Antenna

Vertical Polarization, 30 MHz – 200 MHz, Biconical Antenna

Test Photographs
Spurious Radiated Emissions, 9 kHz to 40 GHz

Horizontal Polarization, 200 MHz - 1 GHz, Log Periodic

Vertical Polarization, 200 MHz - 1 GHz, Log Periodic

Test Photographs
Spurious Radiated Emissions, 9 kHz to 40 GHz

Horizontal Polarization, 1- 18 GHz, Double Ridge Guide

Vertical Polarization, 1- 18 GHz, Double Ridge Guide

Test Photographs
Spurious Radiated Emissions, 9 kHz to 40 GHz

Horizontal Polarization, 18- 26 GHz, High Gain Horn

Vertical Polarization, 18- 26 GHz, High Gain Horn

Test Photographs
Spurious Radiated Emissions, 9 kHz to 40 GHz

Horizontal Polarization, 26 - 40 GHz, High Gain Horn

Horizontal Polarization, 26 - 40 GHz, High Gain Horn

Spurious Radiated Emissions, 9 kHz to 40 GHz
Test Data

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Radiated Emissions 9 kHz to 40 GHz**
Customer	ARRIS
Job Number	R-6288N-7
Test Sample	Set Top Box
Model Number	AX061AEI
Serial Number	M11742TK0116
Test Specification	FCC 15.209
Operating Mode	All Radios Active
Technician	M. Seamans
Date	January 3rd, 2018

Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak < 1GHz; Average > 1GHz

Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted to 300M	Converted Reading	Limit at 300M
MHz	(H/V) / Height	Degrees	dBuV	dB	dBuV/m	dBuV/m	uV/m	uV/m
0.009	-	-	-	-	-	-	-	266.67
|	-	-	-	-	-	-	-	|
|	-	-	-	-	-	-	-	|
|	-	-	-	-	-	-	-	|
0.490	-	-	-	-	-	-	-	4.89

No EUT emissions were observed at the stated test distance throughout the given frequency spectrum.

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Radiated Emissions 9 kHz to 40 GHz**
Customer	ARRIS
Job Number	R-6288N-7
Test Sample	Set Top Box
Model Number	AX061AEI
Serial Number	M11742TK0116
Test Specification	FCC 15.209
Operating Mode	All Radios Active
Technician	M. Seamans
Date	January 3rd, 2018

Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak < 1GHz; Average > 1GHz

Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted to 30M	Converted Reading	Limit at 30M
MHz	(H/V) / Height	Degrees	dBuV	dB	dBuV/m	dBuV/m	uV/m	uV/m
0.490	-	-	-	-	-	-	-	48.98
|	-	-	-	-	-	-	-	|
1.705	-	-	-	-	-	-	-	14.08
1.705	-	-	-	-	-	-	-	30.00
|	-	-	-	-	-	-	-	|
13.110	-	-	-	-	-	-	-	30.00
13.110	-	-	-	-	-	-	-	106.00
|	-	-	-	-	-	-	-	|
13.410	-	-	-	-	-	-	-	106.00
13.410	-	-	-	-	-	-	-	334.00
|	-	-	-	-	-	-	-	|
13.553	-	-	-	-	-	-	-	334.00
13.553	-	-	-	-	-	-	-	15848.00
|	-	-	-	-	-	-	-	|
13.567	-	-	-	-	-	-	-	15848.00
13.567	-	-	-	-	-	-	-	334.00
|	-	-	-	-	-	-	-	|
13.710	-	-	-	-	-	-	-	334.00
13.710	-	-	-	-	-	-	-	106.00
|	-	-	-	-	-	-	-	|
14.010	-	-	-	-	-	-	-	106.00

No EUT emissions were observed at the stated test distance throughout the given frequency spectrum.

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Radiated Emissions 9 kHz to 40 GHz**
Customer	ARRIS
Job Number	R-6288N-7
Test Sample	Set Top Box
Model Number	AX061AEI
Serial Number	M11742TK0116
Test Specification	FCC 15.209
Operating Mode	All Radios Active
Technician	M. Seamans
Date	January 3rd, 2018

Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak < 1GHz; Average > 1GHz

Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted to 30M	Converted Reading	Limit at 30M
MHz	(H/V) / Height	Degrees	dBuV	dB	dBuV/m	dBuV/m	uV/m	uV/m
14.010	-	-	-	-	-	-	-	30.00
|	-	-	-	-	-	-	-	|
|	-	-	-	-	-	-	-	|
|	-	-	-	-	-	-	-	|
|	-	-	-	-	-	-	-	|
|	-	-	-	-	-	-	-	|
30.00	-	-	-	-	-	-	-	30.00

No EUT emissions were observed at the stated test distance throughout the given frequency spectrum.

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

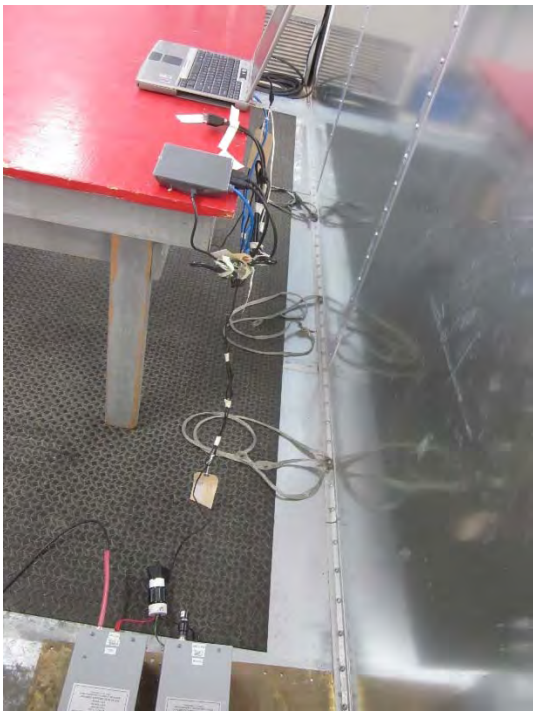
Test Method	**Radiated Emissions 9 kHz to 40 GHz**
Customer	ARRIS
Job Number	R-6288N-7
Test Sample	Set Top Box
Model Number	AX061AEI
Serial Number	M11742TK0116
Test Specification	FCC 15.209
Operating Mode	All radios operating simultaneously
Technician	M. Seamans
Date	January 3rd, 2018

Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak < 1GHz; Average > 1GHz

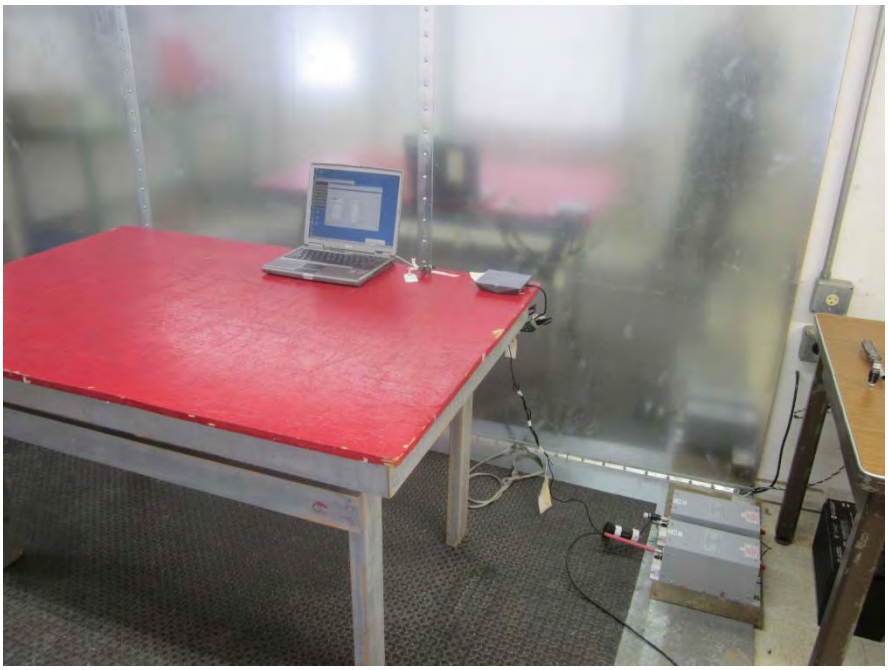
Frequency	Antenna Position	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading			Limit at 3M
MHz	(H/V) / Height	Degrees	dBuV	dB	dBuV/m			dBuV/m
30.00	-	-	-	-	-			40.0
|	-	-	-	-	-			|
37.75	V-1m	180.0	17.88	14.32	32.20			|
78.39	V-1.5m	180.0	17.83	8.37	26.20			|
|	-	-	-	-	-			|
88.00	-	-	-	-	-			40.0
88.00	-	-	-	-	-			43.5
|	-	-	-	-	-			|
128.95	H-1.5m	180.0	26.97	9.33	36.30			|
135.56	V-1m	225.0	24.40	9.80	34.20			|
209.40	H-1m	180.0	15.17	13.93	29.10			|
|	-	-	-	-	-			|
216.00	-	-	-	-	-			43.5
216.00	-	-	-	-	-			46.0
|	-	-	-	-	-			|
242.31	H-1m	180.0	10.39	15.81	26.20			|
|	-	-	-	-	-			|
960.00	-	-	-	-	-			46.0
960.00	-	-	-	-	-			54.0
|	-	-	-	-	-			|
5400.00	V-1m	0.0	30.44	0.92	31.36	*		|
12200.00	V-1m	0.0	32.75	8.37	41.12	*		|
22320.00	V-1m	0.0	35.42	-5.30	30.12	*		|
|	-	-	-	-	-			|
40000.00	-	-	-	-	-			54.0

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Test Photographs
Conducted Emissions, Power Leads, 150 kHz to 30 MHz



EUT Configuration



Test Setup

FCC Part 15, Subpart B, Section 15.207(a)
Conducted Emissions, Power Leads, 150 kHz to 30 MHz
Test Data

EMISSIONS TEST DATA SHEET

Test Specification:	FCC Part 15, Subpart B, Section 15.207(a), Conducted Emissions
Method:	ANSI C63.4, Section 7, AC power-line conducted emission measurements
Job Number/Customer:	R-6288N-7 / ARRIS
Test Sample:	Set Top Box
Model Number:	AX061AEI
Part Number:	N/A
Serial Number:	M11742TK0116
Operating Mode:	All Radios Active
Technician:	M.Seamans
Date(s):	January 8th, 2017
Temperature:	20.8 ºC
Relative Humidity:	16.4 %
Lead Tested:	120 VAC 60 Hz

Frequency	Lead Tested	Peak Meter Reading	Quasi-Peak Meter Reading	Average Meter Reading	Quasi-Peak Limit	Average Limit
MHz		dBuV	dBuv	dBuV	dBuV	dBuV
0.152	Hot	50.09	44.16	32.82	65.89	55.89
0.152	Neutral	53.24	45.91	31.88	65.89	55.89
0.227	Hot	45.99	40.12	28.78	62.56	52.56
0.246	Neutral	48.73	41.09	26.65	61.89	51.89
0.290	Hot	41.39	35.88	24.22	60.52	50.52
0.429	Neutral	39.38	30.09	15.51	57.27	47.27
1.244	Hot	45.58	34.73	27.06	56	46
0.899	Neutral	40.62	36.78	26.28	56	46
3.404	Hot	36.46	31.73	23.07	56	46
3.500	Neutral	35.05	25.99	16.20	56	46
24.003	Hot	37.65	33.96	30.23	60	50
24.000	Neutral	33.91	31.01	23.94	60	50

The frequency range was scanned from 0.15 MHz to 30 MHz.
The six highest emissions relative to the limit are presented.
The emissions observed from the EUT do not exceed the specified limits.