

Test Report

FCCID: QMP-M605AC

Date of issue: Nov. 13, 2019

Report number: MTi19091904-1E1

Sample description: Wireless XDSL Modem Router

Model(s): M605v AC, M605v Series

Applicant: DQ Technology, Inc.

Address: 1343 Columbia Drive, Suite 415, Richardson, TX, 75081

Date of Test: Sept. 26, 2019 to Oct. 22, 2019

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

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Test Result Certification

Applicant's name: DQ Technology, Inc.

Address: 1343 Columbia Drive, Suite 415, Richardson, TX, 75081

Manufacture's Name: DCOM Technology CO., LTD

Address: 8004, Building 51, Block 2, Shangtang Songzi Park, MinZhi St., Longhua Dist, Shenzhen, China

Product name: Wireless XDSL Modem Router

Trademark: VisionNet

Model name: M605v AC, M605v Series

Standards: FCC Part 15.247

Test Procedure: ANSI C63.10-2013
KDB 558074 D01 DTS Meas Guidance v05r02

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:

Demi Mu

Oct. 22, 2019

Reviewed by:

Blue Zheng

Nov. 13, 2019

Approved by:

Smith Chen

Nov. 13, 2019

1 General information

1.1 Description of EUT

Product name:	Wireless XDSL Modem Router
Model name:	M605v AC
Serial Model:	M605v Series
Model difference:	All the model are the same circuit and RF module, except the appearance, color and model No.
Operation frequency:	802.11b/g/n20:2412~2462 MHz 802.11n40:2422~2452 MHz
Modulation type:	IEEE 802.11b : DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Bit Rate of transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz) use 800 ns GI: 65.0/58.5/52.0/39.0/26.0/19.5/13.0/6.5 Mbps (MCS0~MCS7) 802.11n(40MHz) use 800 ns GI: 13.5/27/40.5/54/81/108/121.5/135Mbps
Antenna type:	PIFA Antenna
Antenna gain:	For 802.11b/g, working in SISO mode, then the antenna gain as below: 802.11b/g: Antenna A :3dBi 802.11b/g: Antenna B :3dBi
	For 802.11n, working in MIMO mode, the antenna gains should be calculated by the formula: Directional Gain = $G_{ANT} + 10 \cdot \log(N_{ANT})$ dBi = 3 dBi + $10 \cdot \log(2)$ dBi = 6.01dBi
Max. output power:	15.95dBm
Power supply:	DC 12V from adapter AC 120V/60Hz
Battery:	N/A
Adapter information:	Model:MAUS-1201501801 Input:100-240V~ 50/60Hz 0.5A Output:12V 1.5A



Hardware version:	WVD_C5572T_V0.2
Software version:	V2.48c

1.2 Operation channel list

Channel List for 802.11b/g/n(20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	\	\

Channel List for 802.11n(40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	07	2442
04	2427	08	2447
05	2432	09	2452
06	2437	\	\

1.3 Test channel list

Channel List for 802.11b/g/n(20)

Channel	Channel	Frequency (MHz)
Low	01	2412
Middle	06	2437
High	11	2462

Channel List for 802.11n(40)

Channel	Channel	Frequency (MHz)
Low	03	2422
Middle	06	2437
High	09	2452

1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
/	/	/	/	/

1.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.



Item	Equipment	Brand	Model/Type No.	Series No.	Note
1	Adapter	/	MAUS-1201501801	/	/
/	/	/	/	/	/

Note:

(1)The support equipment was authorized by Declaration of Confirmation.

(2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2 Summary of Test Results

Test procedures according to the technical standards:

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna Requirement	Pass	
2	15.247 (b)	Peak Output Power	Pass	
3	15.247 (e)	Power Spectral Density	Pass	
4	15.207	Conducted Emission	Pass	
5	15.247 (d) & 15.209	Radiated Spurious Emission	Pass	
6	15.205	Band Edge Emission	Pass	
7	15.247 (a)(2)	6dB Bandwidth	Pass	
8	15.205	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

The reported uncertainty of measurement $y \pm U$ where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ providing a level of confidence of approximately 95 %

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

3.4 Test software

Software Name	Manufacturer	Model	Version
Bluetooth and WiFi Test System	Shenzhen JS tonscond co., ltd	JS1120-3	2.5.77.0418

4 Equipment list

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E004	EMI Test Receiver	Rohde&schwarz	ESPI7	100314	2019/10/09	2020/10/08
MTI-E006	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-872	2019/10/15	2020/10/14
MTI-E014	amplifier	Hewlett-Packard	8447D	3113A06150	2019/10/09	2020/10/08
MTI-E036	Single path vehicle AMN(LISN)	Schwarzbeck	NNBM 8124	01175	2019/10/09	2020/10/08
MTI-E038	Low noise active vertical monopole antenna	Schwarzbeck	VAMP 9243	#565	2019/10/16	2020/10/15
MTI-E039	Biconical antenna	Schwarzbeck	BBA 9106	#164	2019/10/15	2020/10/14
MTI-E041	MXG Vector Signal Generator	Agilent	N5182A	MY49060455	2019/04/16	2020/04/15
MTI-E042	ESG Series Analog signal generator	Agilent	E4421B	GB40051240	2019/05/21	2020/05/20
MTI-E044	Thermometer clock humidity monitor	-	HTC-1	/	2019/04/17	2020/04/16
MTI-E062	Log Periodic Antenna	Schwarzbeck	VUSLP 9111B	#312	2018/04/11	2020/04/10
MTI-E063	Log Periodic Dipole Array Antenna	ETS-LINDGREN	3148B	00224524	2018/04/11	2020/04/10
MTI-E065	Amplifier	EMtrace	RP06A	00117	2019/04/29	2020/04/28
MTI-E071	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2018/10/25	2019/10/24
MTI-E076	EMI Test Receiver	Rohde&schwarz	ESIB26	100273	2019/04/16	2020/04/15
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A01957	2019/04/16	2020/04/15
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027695	2019/04/16	2020/04/15
MTI-E093	Artificial mains network	3ctest	LISN J50	ES3911805	2019/04/16	2020/04/15
MTI-E096	Power amplifier	Space-Dtronics	EWLNA0118G-P40	1852001	2019/04/29	2020/04/28
MTI-E097	Current Probe	SOLAR ELECTRONICS CO.	9207-1	220095-1	2019/04/17	2020/04/16
MTI-E098	Loop Sensor	SOLAR ELECTRONICS CO.	7334-1	220095-2	2019/04/21	2020/04/20

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).



5 Test Result

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 EUT Antenna

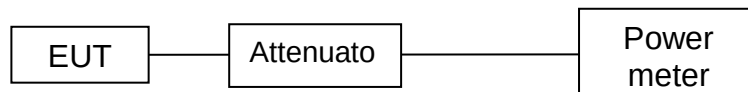
The EUT antenna is PIFA antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Peak output power

5.2.1 Limit

Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.2.2 Test setup



5.2.3 Test procedure

The EUT was directly connected to the Power meter.

5.2.4 Test results

802.11b

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)		Limit (dBm)
		ANT A	ANT B	
CH01	2412	14.53	14.39	30
CH06	2437	15.14	15.37	30
CH11	2462	14.37	15.95	30

802.11g

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)		Limit (dBm)
		ANT A	ANT B	
CH01	2412	12.43	12.66	30
CH06	2437	12.82	13.48	30
CH11	2462	12.51	12.52	30

802.11n20

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)			Limit (dBm)
		ANT A	ANT B	ANT A + ANT B	
CH01	2412	11.85	11.05	14.48	29.99
CH06	2437	12.28	11.87	15.09	29.99
CH11	2462	11.97	12.35	15.17	29.99

Note: Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

Because the directional gain = 6.01dB > 6.0 dBi, the limit should be calculated as below:

Limit = 30 dBm - (ANT Gain + 10*Log(N=2) - 6dBi)

= 30 dBm - (3 + 3.01 - 6) dBi = 29.99dBm

802.11n40

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)			Limit (dBm)
		ANT A	ANT B	ANT A + ANT B	
CH03	2422	11.76	10.22	14.07	29.99
CH06	2437	11.93	10.79	14.41	29.99
CH09	2452	11.80	11.16	14.50	29.99

Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

Because the directional gain = 6.01dB > 6.0 dBi, the limit should be calculated as below:

Limit = 30 dBm - (ANT Gain + 10*Log(N=2) - 6dBi)

= 30 dBm - (3 + 3.01 - 6) dBi = 29.99dBm

5.3 Power spectral density

5.3.1 Limit

Section	Test Item	Limit	Frequency Range (MHz)
15.247(e)	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5

5.3.2 Test Setup



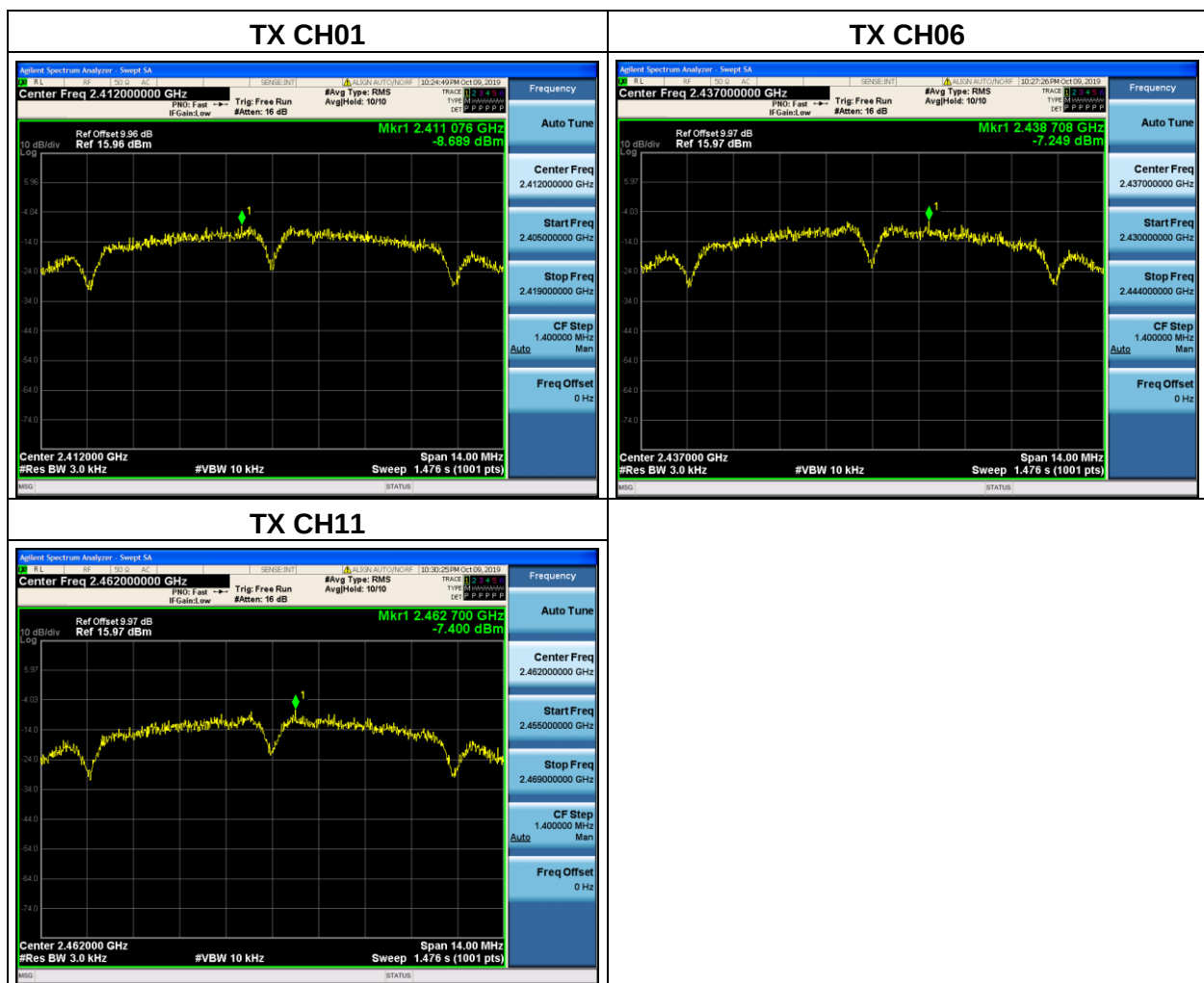
5.3.3 Test Procedure

- The EUT tested system was configured as the statements of 2.1 unless otherwise a special operating condition is specified in the follows during the testing.
- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS channel bandwidth.
- Set the RBW ≥ 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3.4 Test Results

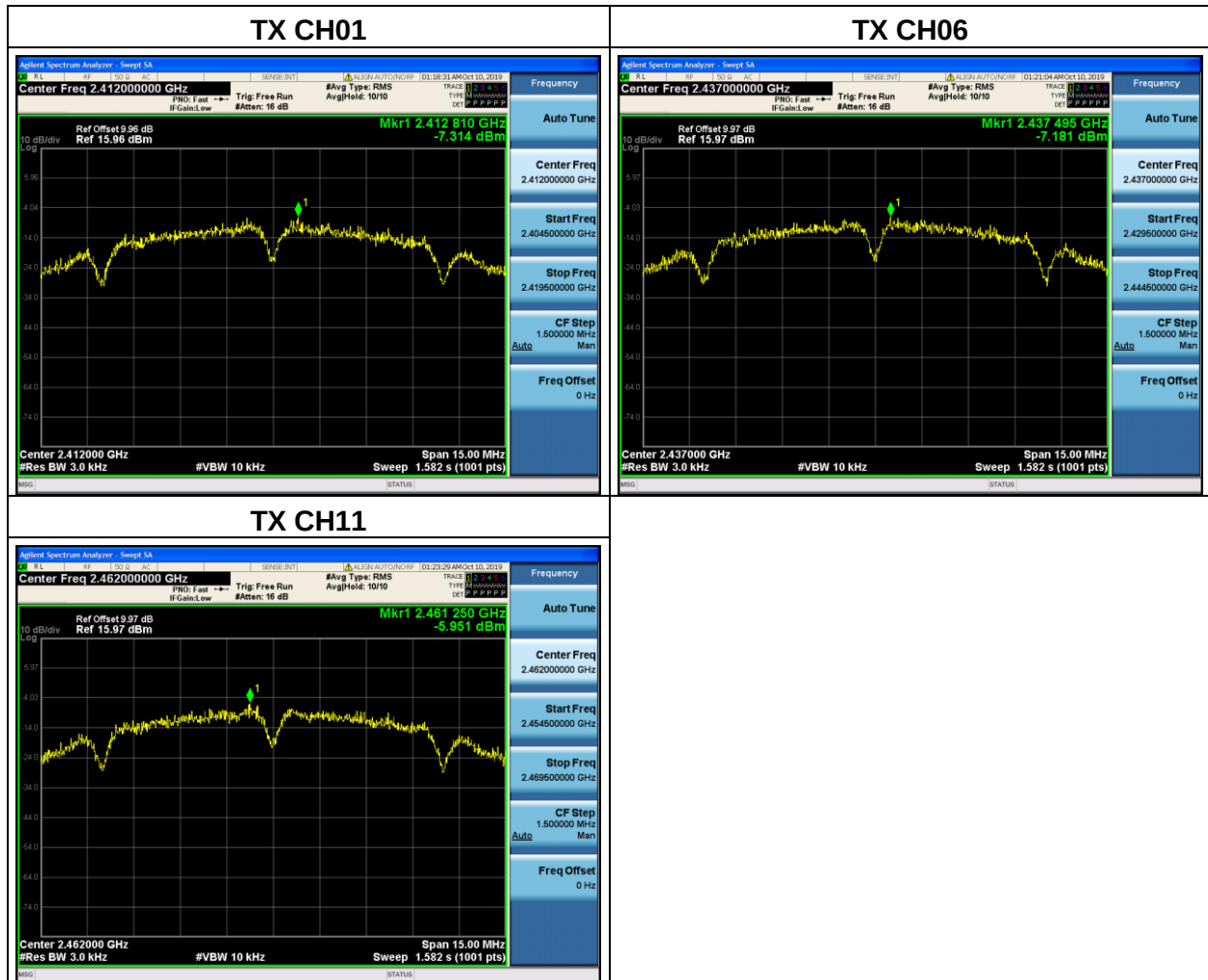
ANT A:

802.11b			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-8.689	8	Pass
2437 MHz	-7.249	8	Pass
2462 MHz	-7.400	8	Pass



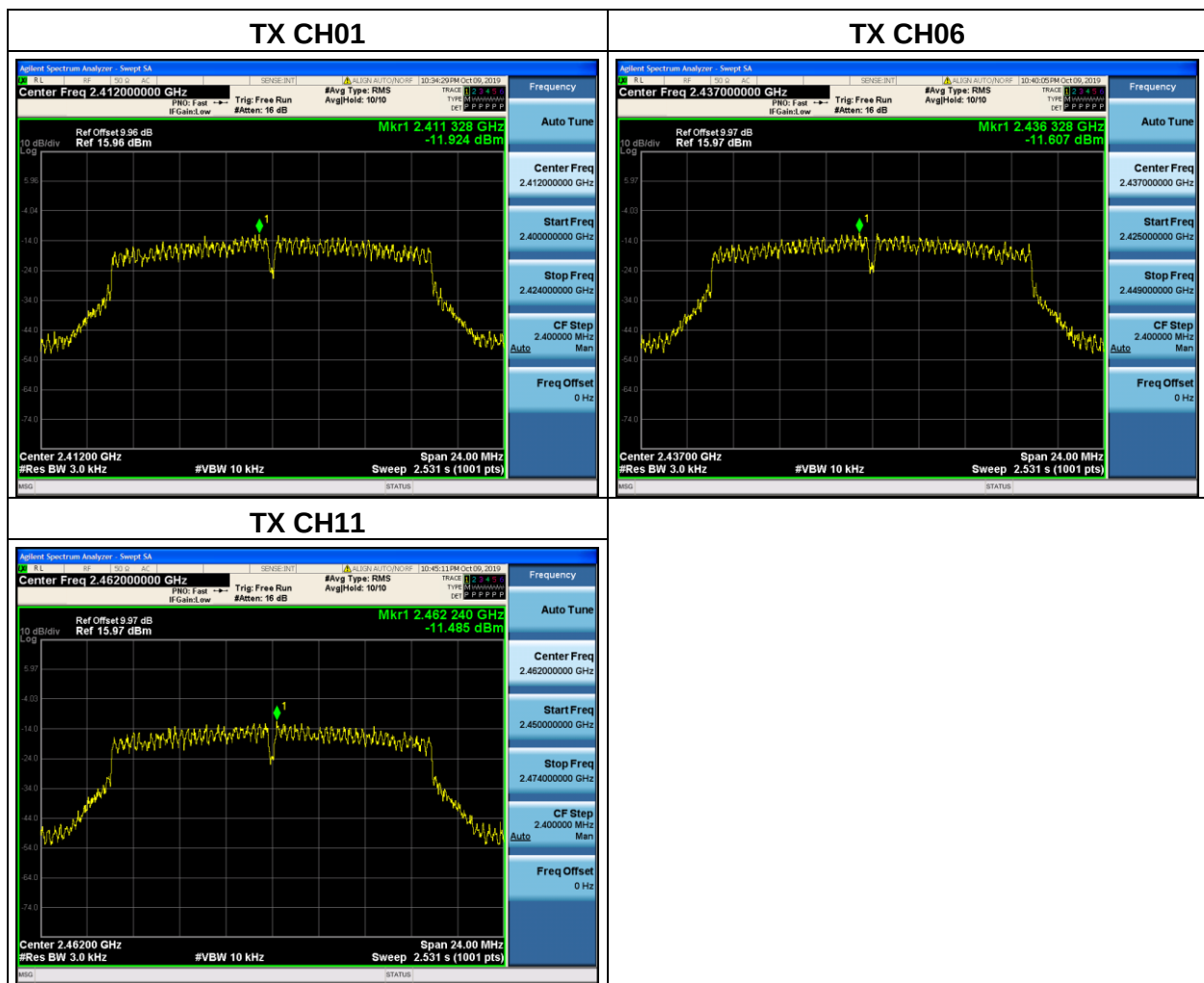
ANT B:

802.11b			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-7.314	8	Pass
2437 MHz	-7.181	8	Pass
2462 MHz	-5.951	8	Pass



ANT A:

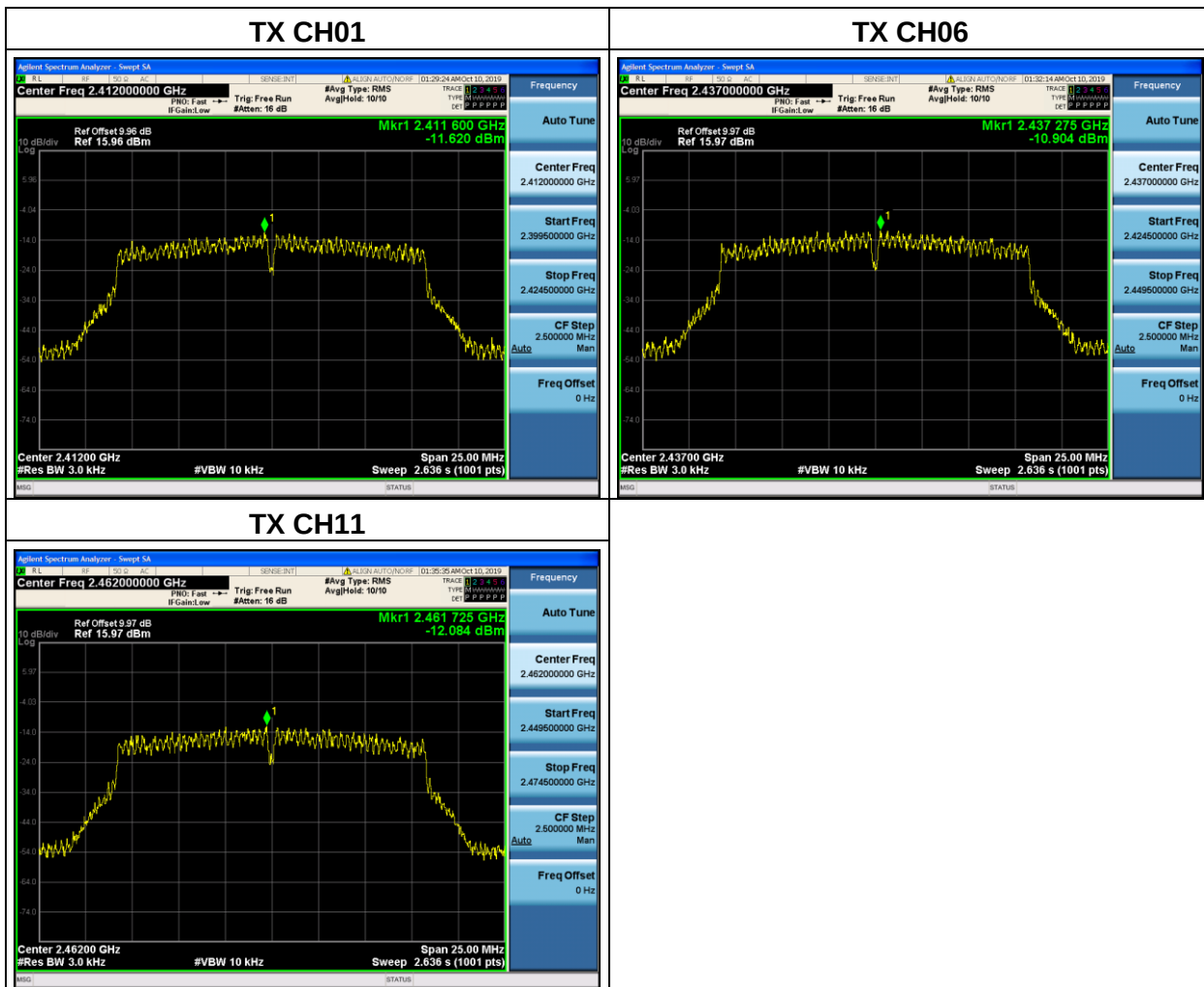
802.11g			
Frequency	Power Density (dBm/3kHz)	Limit 8(dBm/3kHz)	Result
2412 MHz	-11.924	8	Pass
2437 MHz	-11.607	8	Pass
2462 MHz	-11.485	8	Pass





ANT B:

802.11g			
Frequency	Power Density (dBm/3kHz)	Limit 8(dBm/3kHz)	Result
2412 MHz	-11.620	8	Pass
2437 MHz	-10.904	8	Pass
2462 MHz	-12.084	8	Pass



802.11n20

ANT A+ANT B

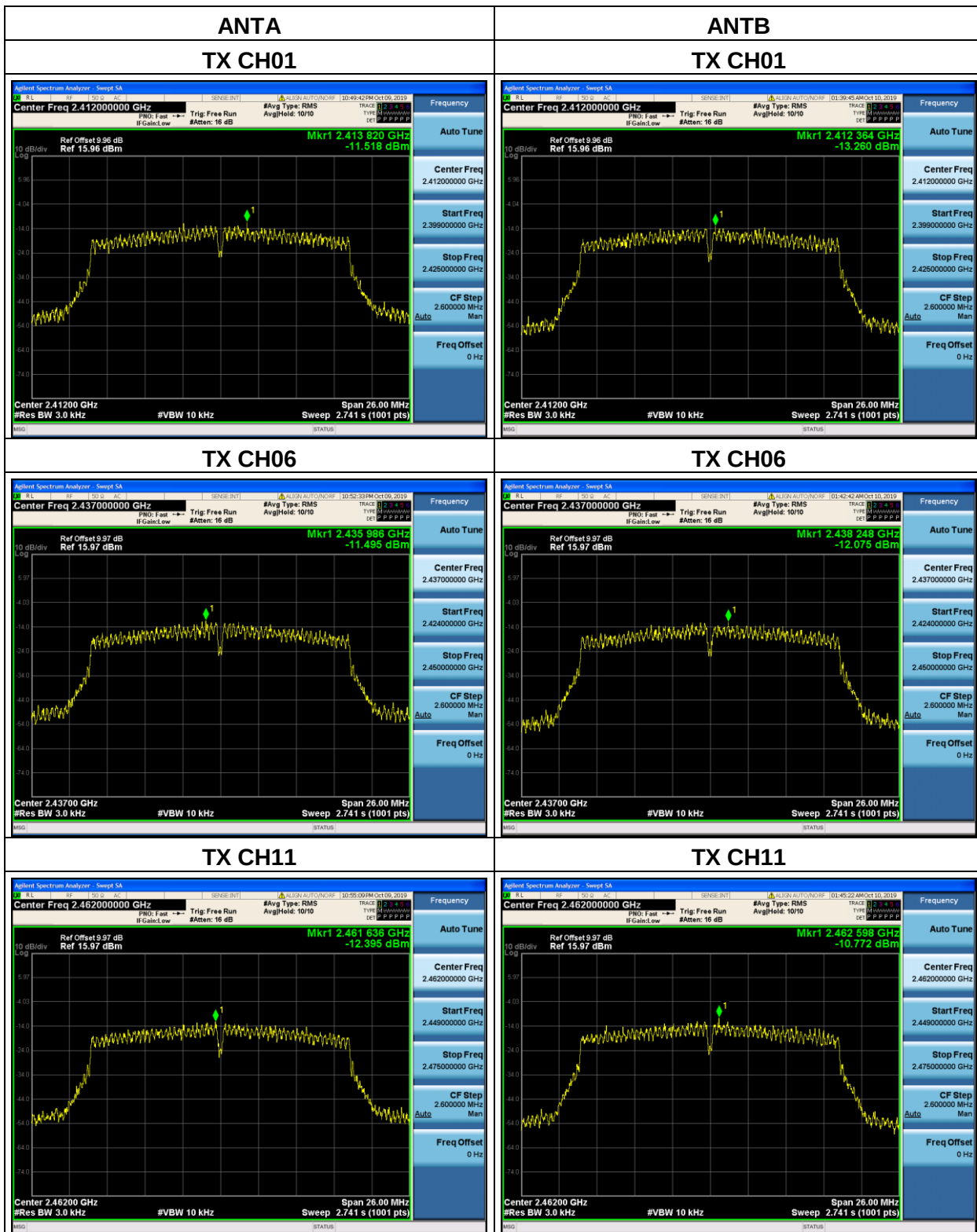
Test Channel	Frequency (MHz)	Power Density of ANT A (dBm/3kHz)	Power Density of ANT B (dBm/3kHz)	Total Power Density of (ANT A + ANT B) (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-11.518	-13.260	-9.29	7.99	Pass
CH06	2437	-11.495	-12.075	-8.77	7.99	Pass
CH11	2462	-12.395	-10.772	-8.50	7.99	Pass

Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

Because the directional gain = 6.01dB > 6.0 dBi, the limit should be calculated as below:

Limit = 8 dBm/3kHz - (ANT Gain + 10*Log(N=2) - 6dBi)

= 8 dBm/3kHz - (3 + 3.01 - 6) dBi = 7.99 dBm/3kHz



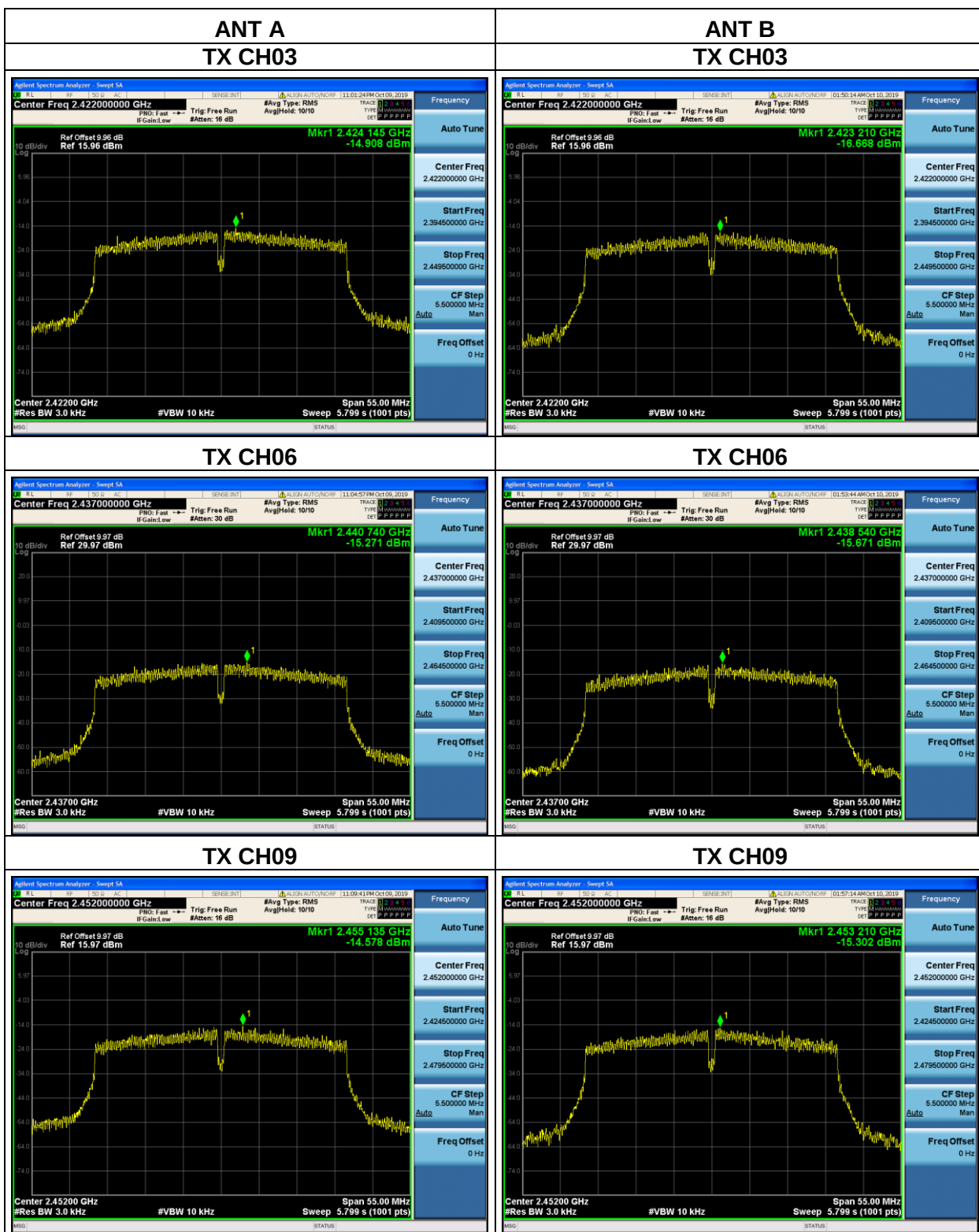
802.11n40

Test Channel	Frequency (MHz)	Power Density of ANTA (dBm/3kHz)	Power Density of ANTB (dBm/3kHz)	Total Power Density of (ANTA + ANTB) (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH03	2422	-14.908	-16.668	-12.69	7.99	Pass
CH06	2437	-15.271	-15.671	-12.46	7.99	Pass
CH09	2452	-14.578	-15.302	-11.91	7.99	Pass

Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced. Because the directional gain = 6.01dB > 6.0 dBi, the limit should be calculated as below:

Limit = 8 dBm/3kHz - (ANT Gain + 10*Log(N=2) - 6dBi)

= 8 dBm/3kHz - (3 + 3.01 - 6) dBi = 7.99 dBm/3kHz





5.4 Conducted emission

5.4.1 Limits

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01.

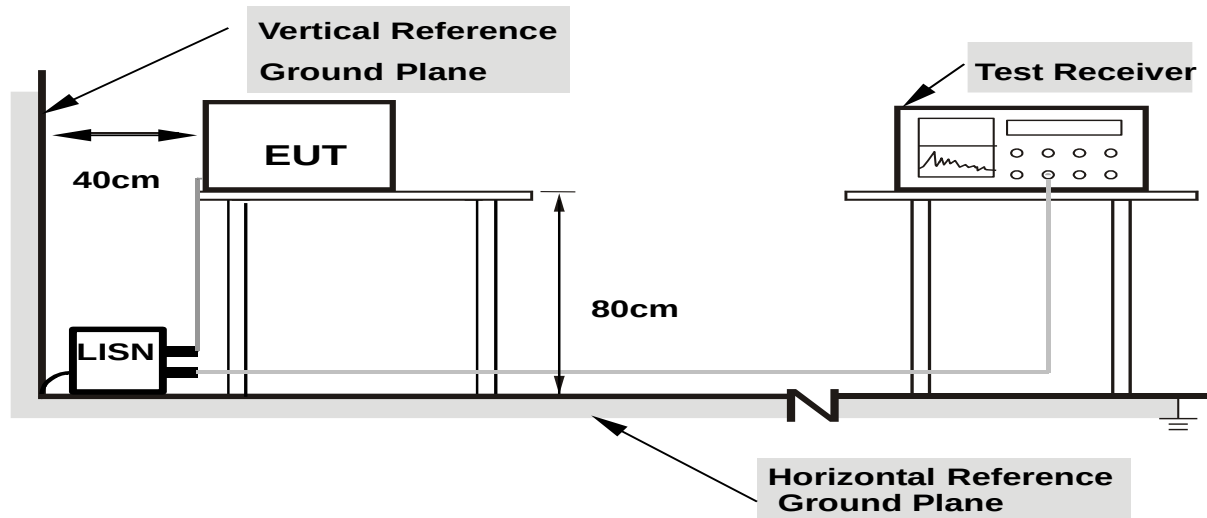
FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note

(1)The tighter limit applies at the band edges.

(2)The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.4.2 Test setup



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.4.3 Test procedure

a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b. The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f. LISN at least 80 cm from nearest part of EUT chassis.

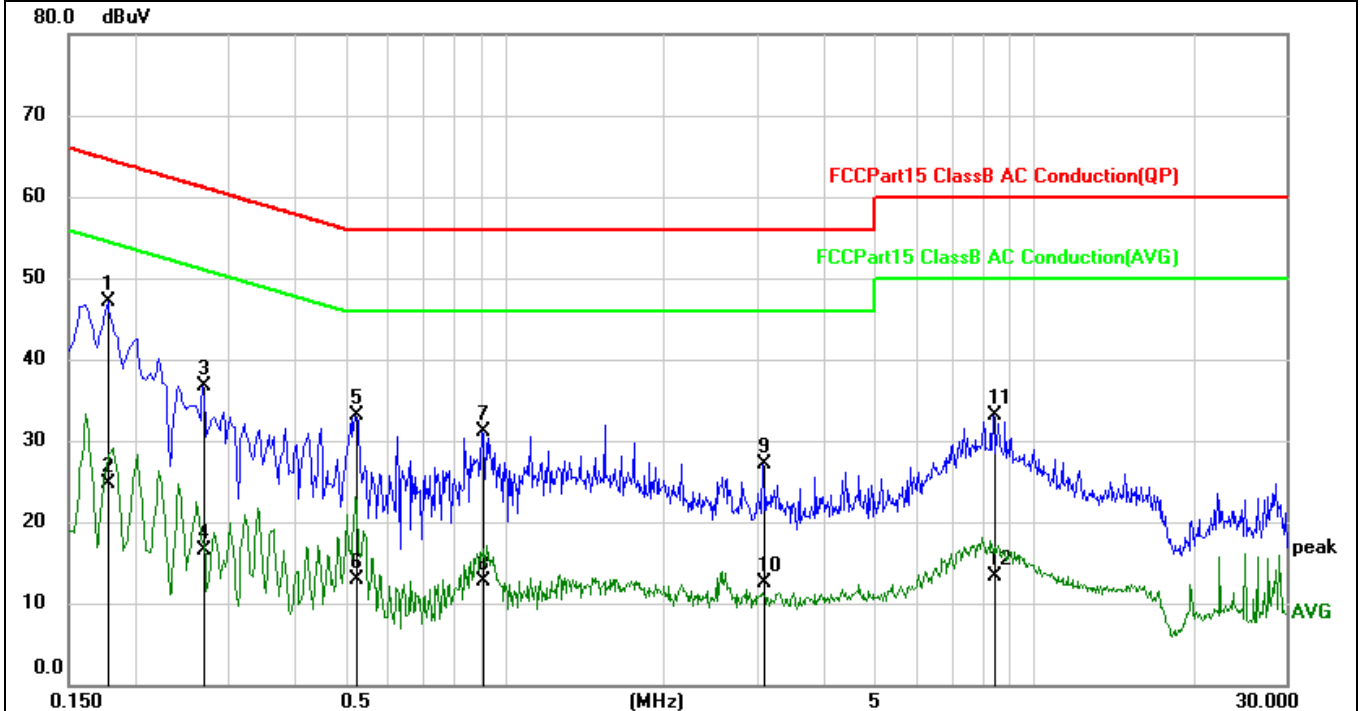
For the actual test configuration, please refer to the related Item –EUT Test Photos.



5.4.4 Test results

EUT has two different voltage supports, reporting only the worst voltage mode.

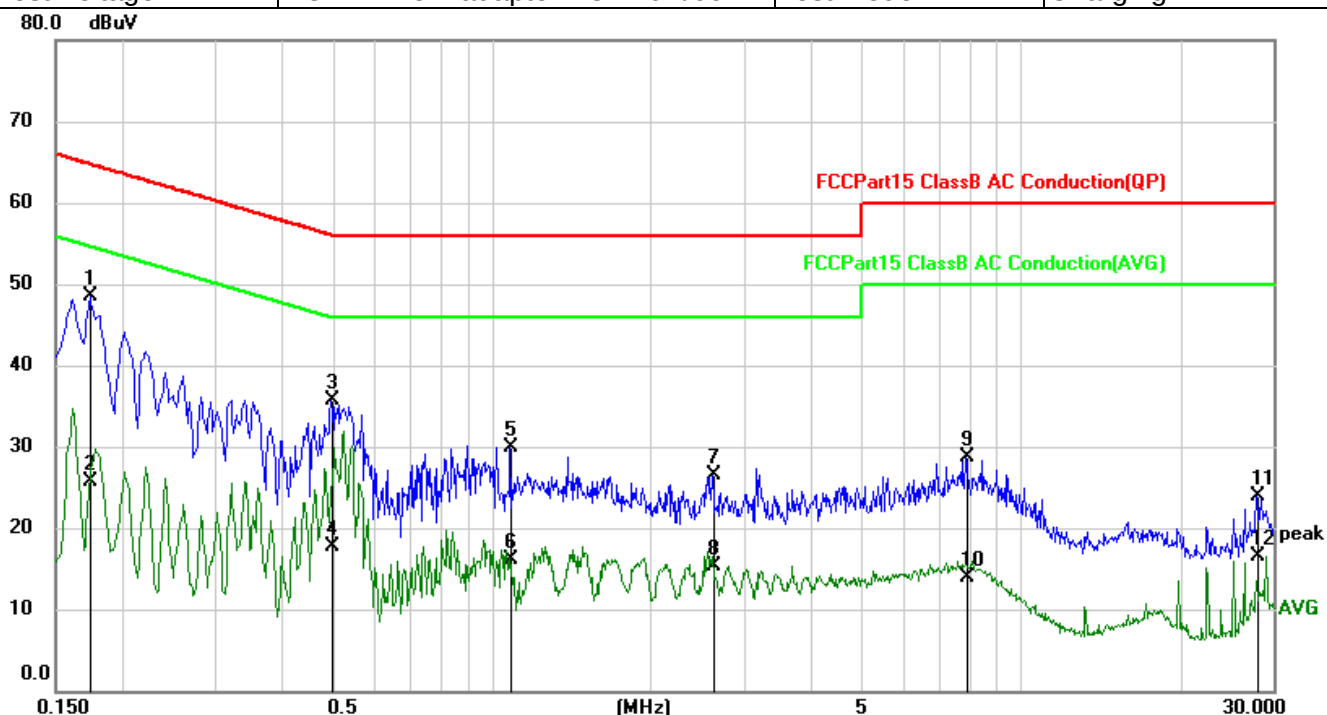
EUT:	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 12V from adapter AC 120V/60Hz	Test Mode:	Charging+TX



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1780	37.36	9.73	47.09	64.58	-17.49	QP
2		0.1780	14.96	9.73	24.69	54.58	-29.89	AVG
3		0.2700	26.98	9.75	36.73	61.12	-24.39	QP
4		0.2700	6.71	9.75	16.46	51.12	-34.66	AVG
5		0.5220	23.18	9.92	33.10	56.00	-22.90	QP
6		0.5220	3.01	9.92	12.93	46.00	-33.07	AVG
7		0.9060	21.05	9.97	31.02	56.00	-24.98	QP
8		0.9060	2.73	9.97	12.70	46.00	-33.30	AVG
9		3.0820	17.12	10.03	27.15	56.00	-28.85	QP
10		3.0820	2.38	10.03	12.41	46.00	-33.59	AVG
11		8.3780	22.88	10.25	33.13	60.00	-26.87	QP
12		8.3780	3.06	10.25	13.31	50.00	-36.69	AVG



EUT:	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 12V from adapter AC 120V/60Hz	Test Mode:	Charging+TX



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1740	38.79	9.73	48.52	64.77	-16.25	QP
2		0.1740	16.04	9.73	25.77	54.77	-29.00	AVG
3		0.4980	25.80	9.92	35.72	56.03	-20.31	QP
4		0.4980	7.78	9.92	17.70	46.03	-28.33	AVG
5		1.0859	20.00	9.98	29.98	56.00	-26.02	QP
6		1.0859	6.18	9.98	16.16	46.00	-29.84	AVG
7		2.6180	16.56	10.02	26.58	56.00	-29.42	QP
8		2.6180	5.22	10.02	15.24	46.00	-30.76	AVG
9		7.8620	18.39	10.22	28.61	60.00	-31.39	QP
10		7.8620	3.71	10.22	13.93	50.00	-36.07	AVG
11		27.8780	13.45	10.43	23.88	60.00	-36.12	QP
12		27.8780	5.98	10.43	16.41	50.00	-33.59	AVG



5.5 Radiated spurious

5.5.1 Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

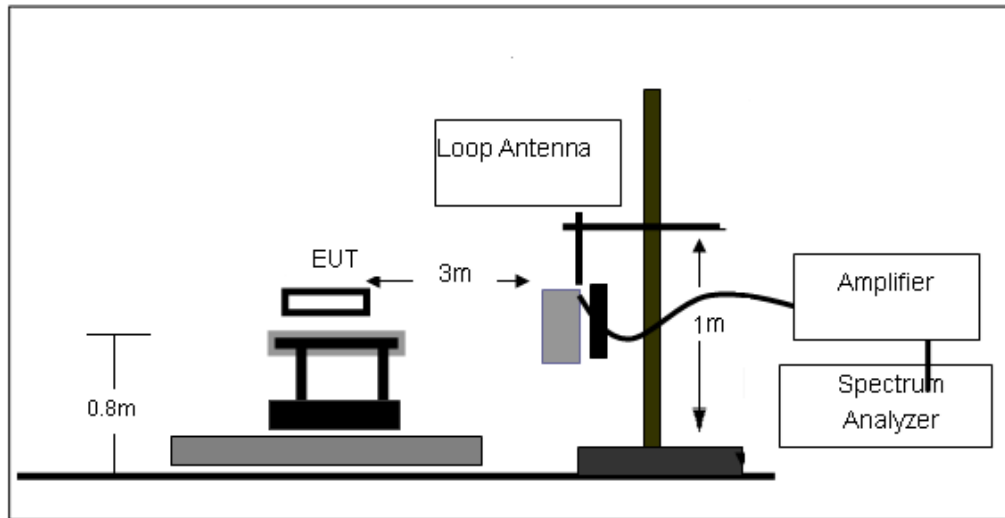
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

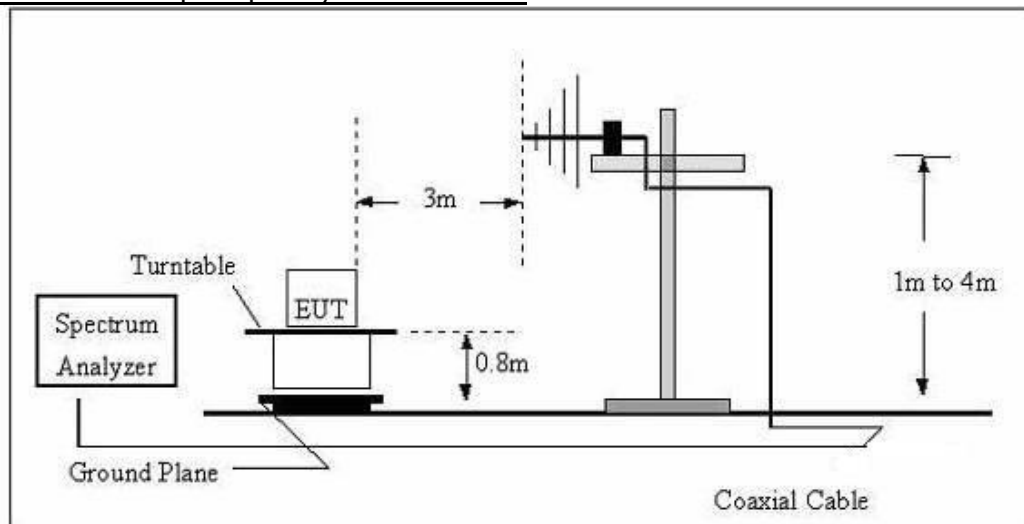


5.5.2 Test setup

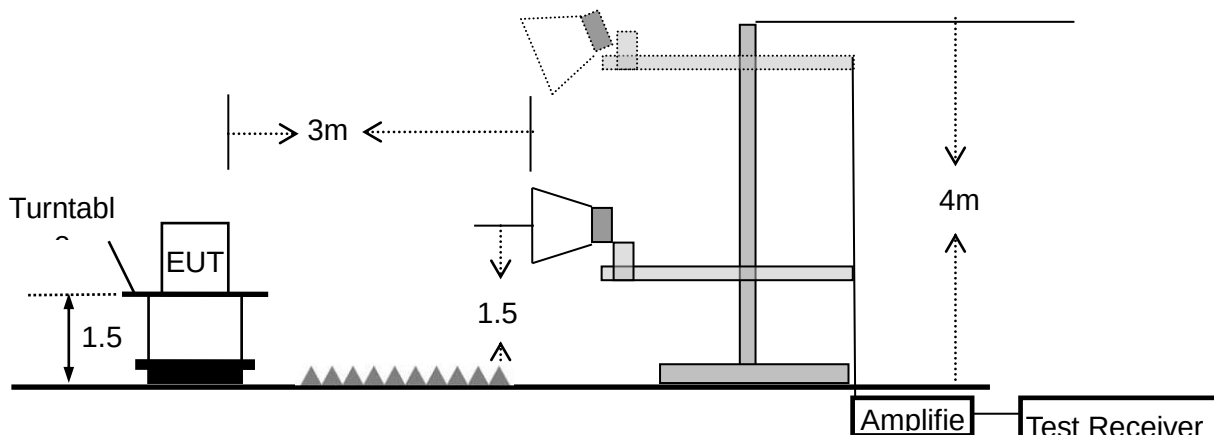
Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.5.3 Test procedure

- a. EUT operating conditions. The EUT tested system was configured as the statements of 2.4 unless otherwise a special operating condition is specified in the follows during the testing.
- b. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- c. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the floor on a support that is RF transparent for the frequencies of interest. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m.
- f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- h. For the actual test configuration, please refer to the related Item –EUT Test photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.5.4 Test results

5.5.4.1 Radiation emission

Below 30MHz

EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure:	1010 hPa	Phase:	H
Test Mode :	TX	Test Voltage :	DC 12V from adapter AC 120V/60Hz

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

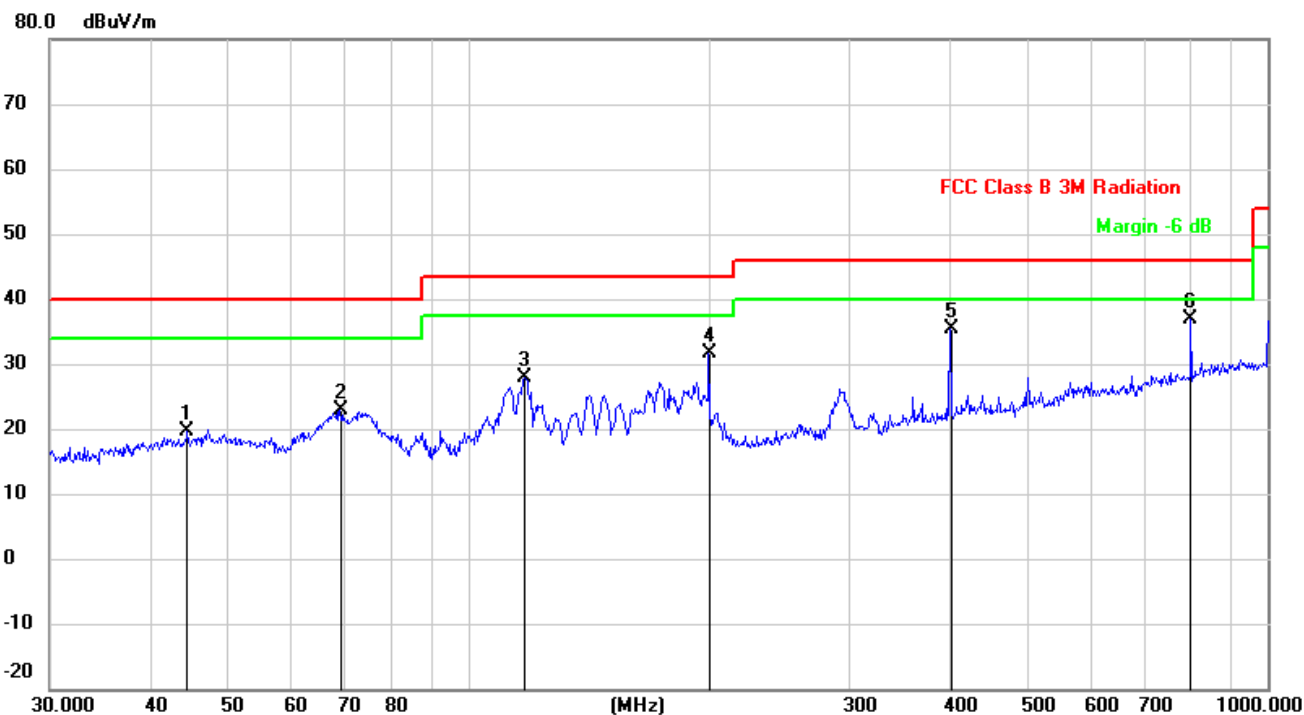
Limit line = specific limits(dBuV) + distance extrapolation factor.

Between 30MHz – 1GHz

All the modulation modes have been tested, the report only shows the worst mode.

The worst mode is 802.11b CH11, the worst result was report as below:

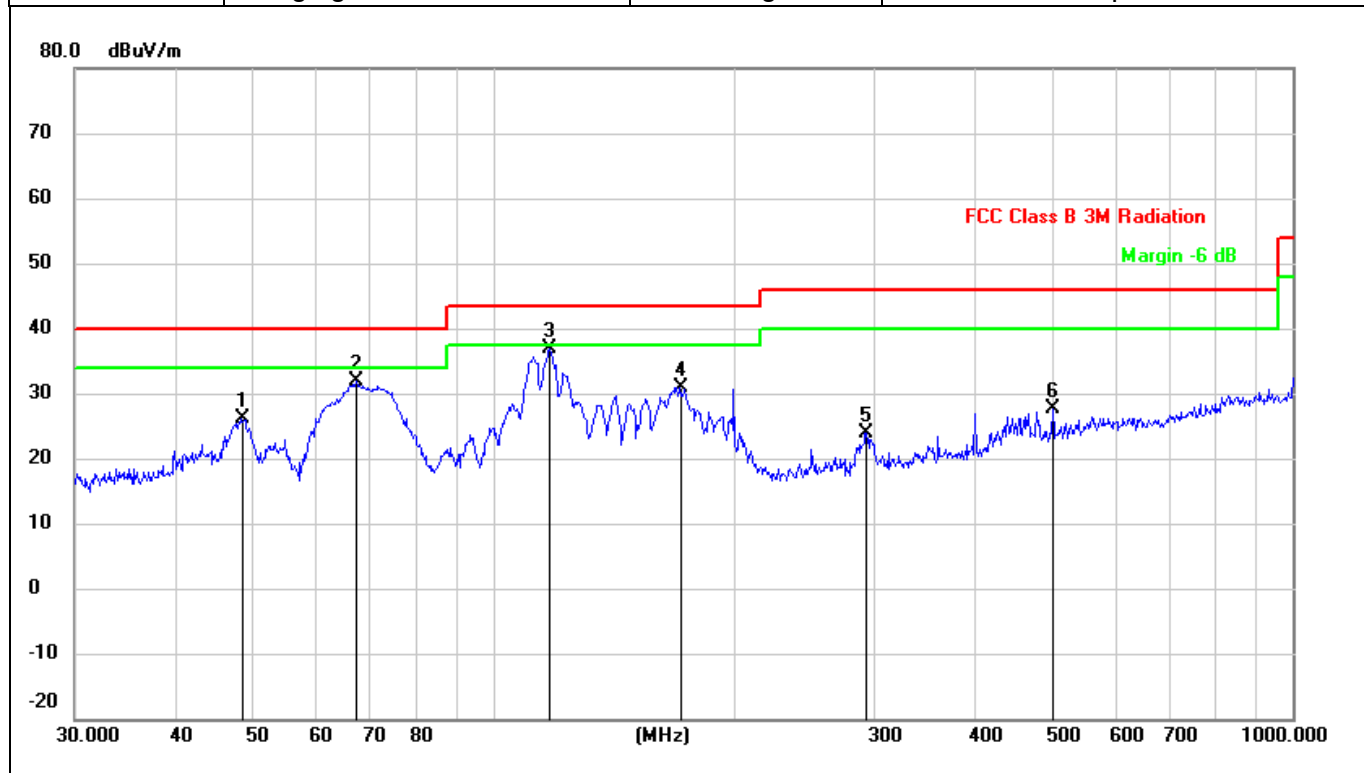
EUT:	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure:	1010 hPa	Phase:	H
Test Mode:	Charging+TX	Test Voltage :	DC 12V from adapter AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		44.5868	26.24	-6.66	19.58	40.00	-20.42	QP
2		69.1141	32.45	-9.62	22.83	40.00	-17.17	QP
3		117.7725	36.28	-8.40	27.88	43.50	-15.62	QP
4		199.9856	38.62	-7.04	31.58	43.50	-11.92	QP
5		400.4319	39.45	-3.95	35.50	46.00	-10.50	QP
6	*	801.7863	35.35	1.50	36.85	46.00	-9.15	QP



EUT:	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure:	1010 hPa	Phase:	V
Test Mode:	Charging+TX	Test Voltage:	DC 12V from adapter AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB	Detector
1		48.5016	32.68	-6.54	26.14	40.00	-13.86	QP
2		67.4382	41.14	-9.36	31.78	40.00	-8.22	QP
3	*	117.7725	45.25	-8.40	36.85	43.50	-6.65	QP
4		171.3926	40.38	-9.43	30.95	43.50	-12.55	QP
5		293.0842	29.04	-5.10	23.94	46.00	-22.06	QP
6		501.1790	29.95	-2.30	27.65	46.00	-18.35	QP

1G-25GHz

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
 (3) All other emissions more than 20dB below the limit.

Note1: The antenna A and antenna B have been tested. The report only shows the worst antenna. The worst case is ANT B.

ANT B
For 802.11b

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2412 MHz)(802.11b)--Above 1G									
4824.161	62.60	4.36	32.92	45.53	54.35	74.00	-19.65	Pk	Vertical
4824.161	43.92	4.36	32.92	45.53	35.67	54.00	-18.33	AV	Vertical
7236.396	59.67	5.02	37.63	45.56	56.76	74.00	-17.24	Pk	Vertical
7236.396	40.33	5.02	37.63	45.56	37.42	54.00	-16.58	AV	Vertical
4824.154	62.72	4.36	32.92	45.53	54.47	74.00	-19.53	Pk	Horizontal
4824.154	42.79	4.36	32.92	45.53	34.54	54.00	-19.46	AV	Horizontal
7236.168	63.56	5.02	37.63	45.56	60.65	74.00	-13.35	Pk	Horizontal
7236.168	43.26	5.02	37.63	45.56	40.35	54.00	-13.65	AV	Horizontal
Middle Channel (2437 MHz)(802.11b)--Above 1G									
4874.112	62.78	4.41	33.01	45.76	54.44	74.00	-19.56	Pk	Vertical
4874.112	43.50	4.41	33.01	45.76	35.16	54.00	-18.84	AV	Vertical
7311.247	59.72	5.02	37.68	45.59	56.83	74.00	-17.17	Pk	Vertical
7311.247	41.47	5.02	37.68	45.59	38.58	54.00	-15.42	AV	Vertical
4874.132	63.23	4.41	33.01	45.76	54.89	74.00	-19.11	Pk	Horizontal
4874.132	44.39	4.41	33.01	45.76	36.05	54.00	-17.95	AV	Horizontal
7311.085	61.52	5.02	37.68	45.59	58.63	74.00	-15.37	Pk	Horizontal
7311.085	42.72	5.02	37.68	45.59	39.83	54.00	-14.17	AV	Horizontal
High Channel (2462 MHz)(802.11b)--Above 1G									
4924.169	63.33	4.50	33.26	46.07	55.02	74.00	-18.98	Pk	Vertical
4924.169	43.28	4.50	33.26	46.07	34.97	54.00	-19.03	AV	Vertical
7386.215	60.64	5.02	37.78	45.77	57.67	74.00	-16.33	Pk	Vertical
7386.215	40.67	5.02	37.78	45.77	37.70	54.00	-16.30	AV	Vertical
4924.045	63.62	4.50	33.26	46.07	55.31	74.00	-18.69	Pk	Horizontal
4924.045	45.26	4.50	33.26	46.07	36.95	54.00	-17.05	AV	Horizontal
7386.132	60.81	5.02	37.78	45.77	57.84	74.00	-16.16	Pk	Horizontal
7386.132	43.03	5.02	37.78	45.77	40.06	54.00	-13.94	AV	Horizontal

5.5.4.2 Band edge - radiated

Note1: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

(2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(3) All other emissions more than 20dB below the limit.

Note2: The antenna A and antenna B have been tested. The report only shows the worst antenna. The worst case is ANT B.

ANT B

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
802.11b									
2310.00	58.87	2.40	27.70	40.40	48.57	74	-25.43	Pk	Horizontal
2310.00	43.32	2.40	27.70	40.40	33.02	54	-20.98	AV	Horizontal
2310.00	58.46	2.40	27.70	40.40	48.16	74	-25.84	Pk	Vertical
2310.00	42.14	2.40	27.70	40.40	31.84	54	-22.16	AV	Vertical
2390.00	57.56	2.44	28.30	40.10	48.20	74	-25.80	Pk	Vertical
2390.00	42.13	2.44	28.30	40.10	32.77	54	-21.23	AV	Vertical
2390.00	56.72	2.44	28.30	40.10	47.36	74	-26.64	Pk	Horizontal
2390.00	41.17	2.44	28.30	40.10	31.81	54	-22.19	AV	Horizontal
2483.50	58.37	2.48	28.70	39.80	49.75	74	-24.25	Pk	Vertical
2483.50	43.44	2.48	28.70	39.80	34.82	54	-19.18	AV	Vertical
2483.50	58.94	2.48	28.70	39.80	50.32	74	-23.68	Pk	Horizontal
2483.50	41.87	2.48	28.70	39.80	33.25	54	-20.75	AV	Horizontal
2500.00	58.92	2.48	29.05	39.80	50.65	74	-23.35	Pk	Vertical
2500.00	41.98	2.48	29.05	39.80	33.71	54	-20.29	AV	Vertical
2500.00	59.22	2.48	29.05	39.80	50.95	74	-23.05	Pk	Horizontal
2500.00	41.36	2.48	29.05	39.80	33.09	54	-20.91	AV	Horizontal
802.11g									
2310.00	58.71	2.40	27.70	40.40	48.41	74	-25.59	Pk	Horizontal
2310.00	44.55	2.40	27.70	40.40	34.25	54	-19.75	AV	Horizontal
2310.00	57.02	2.40	27.70	40.40	46.72	74	-27.28	Pk	Vertical
2310.00	42.46	2.40	27.70	40.40	32.16	54	-21.84	AV	Vertical
2390.00	57.85	2.44	28.30	40.10	48.49	74	-25.51	Pk	Vertical
2390.00	41.79	2.44	28.30	40.10	32.43	54	-21.57	AV	Vertical
2390.00	58.13	2.44	28.30	40.10	48.77	74	-25.23	Pk	Horizontal
2390.00	43.87	2.44	28.30	40.10	34.51	54	-19.49	AV	Horizontal
2483.50	58.75	2.48	28.70	39.80	50.13	74	-23.87	Pk	Vertical
2483.50	43.91	2.48	28.70	39.80	35.29	54	-18.71	AV	Vertical
2483.50	58.51	2.48	28.70	39.80	49.89	74	-24.11	Pk	Horizontal
2483.50	42.28	2.48	28.70	39.80	33.66	54	-20.34	AV	Horizontal
2500.00	58.93	2.48	29.05	39.80	50.66	74	-23.34	Pk	Vertical



2500.00	42.22	2.48	29.05	39.80	33.95	54	-20.05	AV	Vertical
2500.00	58.86	2.48	29.05	39.80	50.59	74	-23.41	Pk	Horizontal
2500.00	41.73	2.48	29.05	39.80	33.46	54	-20.54	AV	Horizontal
802.11n20									
2310.00	57.77	2.40	27.70	40.40	47.47	74	-26.53	Pk	Horizontal
2310.00	44.26	2.40	27.70	40.40	33.96	54	-20.04	AV	Horizontal
2310.00	59.11	2.40	27.70	40.40	48.81	74	-25.19	Pk	Vertical
2310.00	42.72	2.40	27.70	40.40	32.42	54	-21.58	AV	Vertical
2390.00	57.39	2.44	28.30	40.10	48.03	74	-25.97	Pk	Vertical
2390.00	42.49	2.44	28.30	40.10	33.13	54	-20.87	AV	Vertical
2390.00	56.81	2.44	28.30	40.10	47.45	74	-26.55	Pk	Horizontal
2390.00	41.99	2.44	28.30	40.10	32.63	54	-21.37	AV	Horizontal
2483.50	57.69	2.48	28.70	39.80	49.07	74	-24.93	Pk	Vertical
2483.50	42.26	2.48	28.70	39.80	33.64	54	-20.36	AV	Vertical
2483.50	58.61	2.48	28.70	39.80	49.99	74	-24.01	Pk	Horizontal
2483.50	42.25	2.48	28.70	39.80	33.63	54	-20.37	AV	Horizontal
2500.00	58.60	2.48	29.05	39.80	50.33	74	-23.67	Pk	Vertical
2500.00	41.87	2.48	29.05	39.80	33.60	54	-20.40	AV	Vertical
2500.00	58.93	2.48	29.05	39.80	50.66	74	-23.34	Pk	Horizontal
2500.00	42.21	2.48	29.05	39.80	33.94	54	-20.06	AV	Horizontal
802.11n40									
2310.00	59.54	2.40	27.70	40.40	49.24	74	-24.76	Pk	Horizontal
2310.00	44.43	2.40	27.70	40.40	34.13	54	-19.87	AV	Horizontal
2310.00	56.55	2.40	27.70	40.40	46.25	74	-27.75	Pk	Vertical
2310.00	43.04	2.40	27.70	40.40	32.74	54	-21.26	AV	Vertical
2390.00	57.73	2.44	28.30	40.10	48.37	74	-25.63	Pk	Vertical
2390.00	42.44	2.44	28.30	40.10	33.08	54	-20.92	AV	Vertical
2390.00	57.94	2.44	28.30	40.10	48.58	74	-25.42	Pk	Horizontal
2390.00	44.12	2.44	28.30	40.10	34.76	54	-19.24	AV	Horizontal
2483.50	58.75	2.48	28.70	39.80	50.13	74	-23.87	Pk	Vertical
2483.50	44.33	2.48	28.70	39.80	35.71	54	-18.29	AV	Vertical
2483.50	58.38	2.48	28.70	39.80	49.76	74	-24.24	Pk	Horizontal
2483.50	42.55	2.48	28.70	39.80	33.93	54	-20.07	AV	Horizontal
2500.00	58.68	2.48	29.05	39.80	50.41	74	-23.59	Pk	Vertical
2500.00	41.93	2.48	29.05	39.80	33.66	54	-20.34	AV	Vertical
2500.00	59.14	2.48	29.05	39.80	50.87	74	-23.13	Pk	Horizontal
2500.00	41.58	2.48	29.05	39.80	33.31	54	-20.69	AV	Horizontal

5.5.4.3 Spurious Emission in Restricted Band 3260MHz-18000MHz

Note1: The antenna A and antenna B have been tested. The report only shows the worst antenna.
 The worst case is ANT B.

ANT B

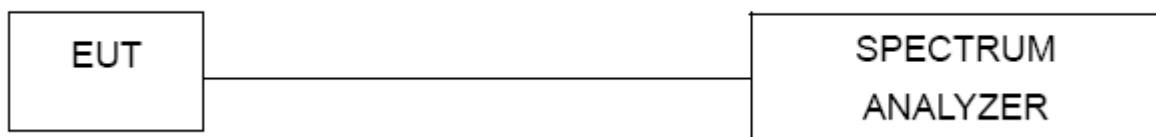
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3260	60.34	3.27	30.02	38.05	55.58	74	-18.42	Pk	Vertical
3260	39.26	3.27	30.02	38.05	34.50	54	-19.50	AV	Vertical
3260	59.24	3.27	30.02	38.05	54.48	74	-19.52	Pk	Horizontal
3260	36.87	3.27	30.02	38.05	32.11	54	-21.89	AV	Horizontal
3332	60.81	3.31	30.00	37.91	56.21	74	-17.79	Pk	Vertical
3332	38.42	3.31	30.00	37.91	33.82	54	-20.18	AV	Vertical
3332	59.48	3.31	30.00	37.91	54.88	74	-19.12	Pk	Horizontal
3332	35.60	3.31	30.00	37.91	31.00	54	-23.00	AV	Horizontal
17797	42.75	8.63	44.23	39.60	56.01	74	-17.99	Pk	Vertical
17797	28.74	8.63	44.23	39.60	42.00	54	-12.00	AV	Vertical
17788	42.77	8.63	44.23	39.60	56.03	74	-17.97	Pk	Horizontal
17788	27.56	8.63	44.23	39.60	40.82	54	-13.18	AV	Horizontal

5.6 Band edge - Conducted

5.6.1 Limits

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 §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.6.2 Test setup



5.6.3 Test procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- Repeat above procedures until all measured frequencies were complete.

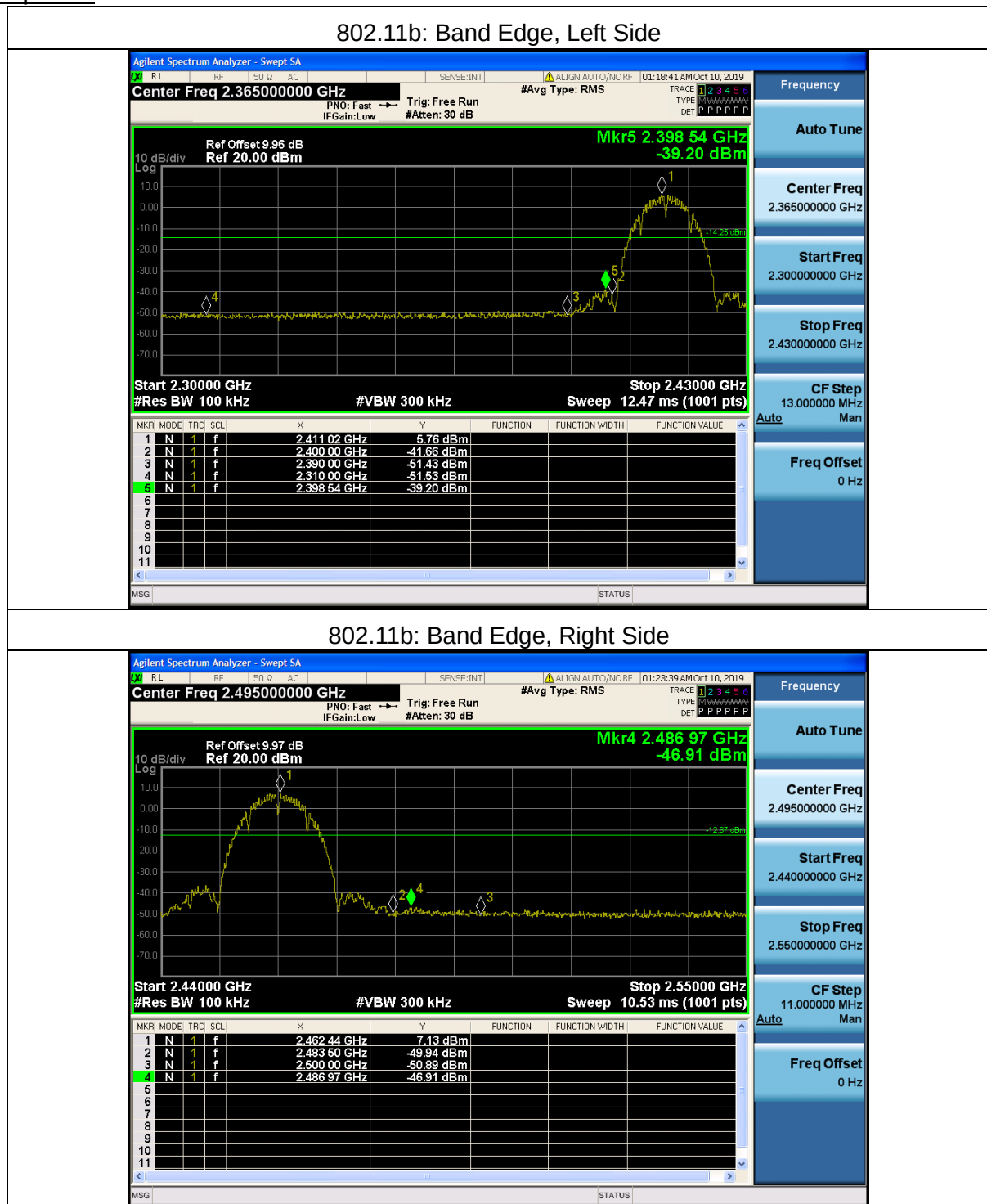
EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 unless otherwise a special operating condition is specified in the follows during the testing.

Note1: The antenna A and antenna B have been tested. The report only shows the worst antenna. The worst case is ANT B.

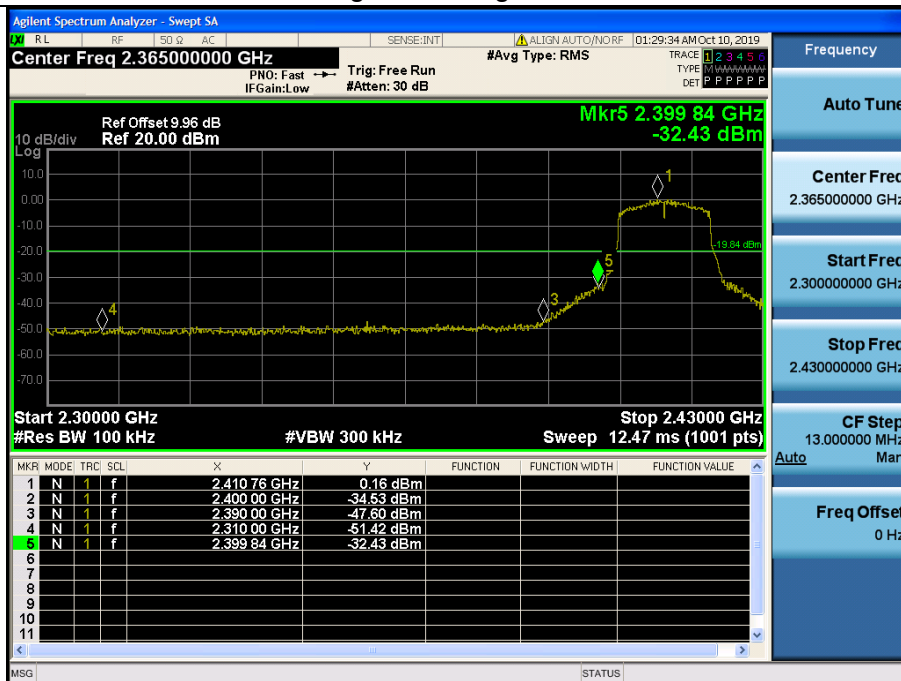
5.6.4 Test results

Test plots:

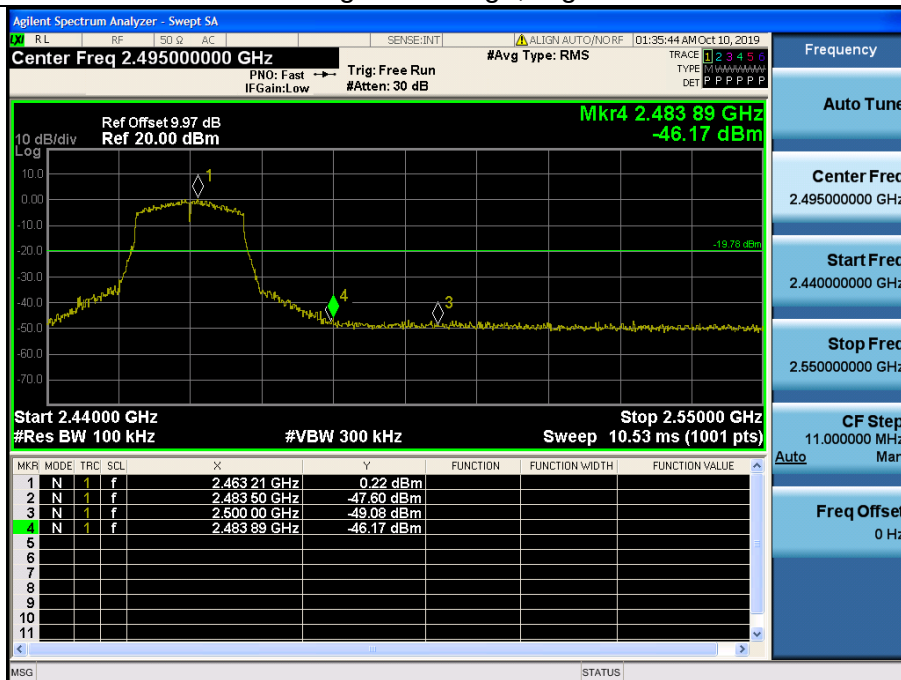




802.11g: Band Edge, Left Side

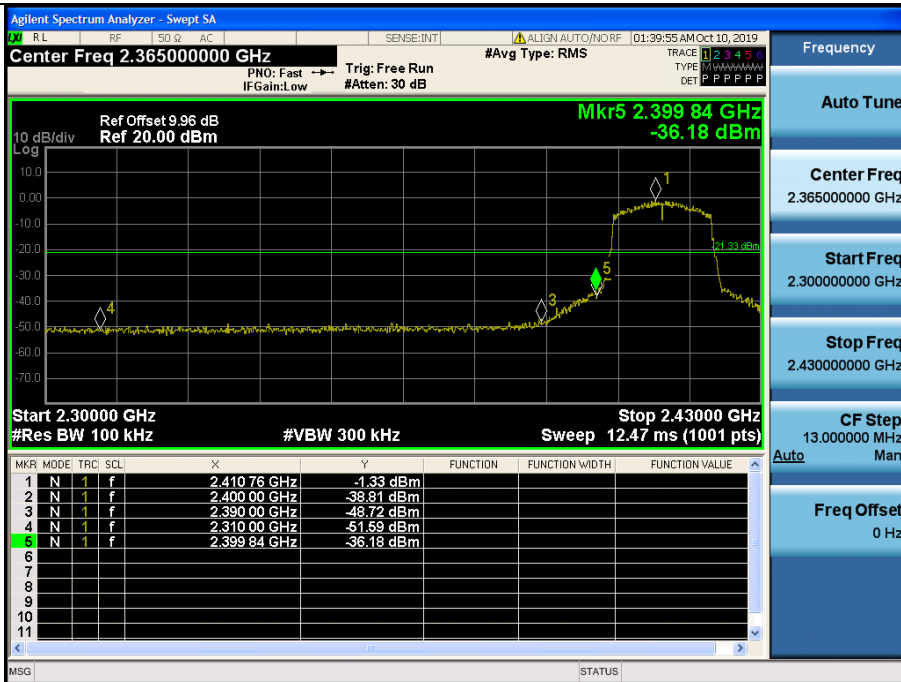


802.11g: Band Edge, Right Side

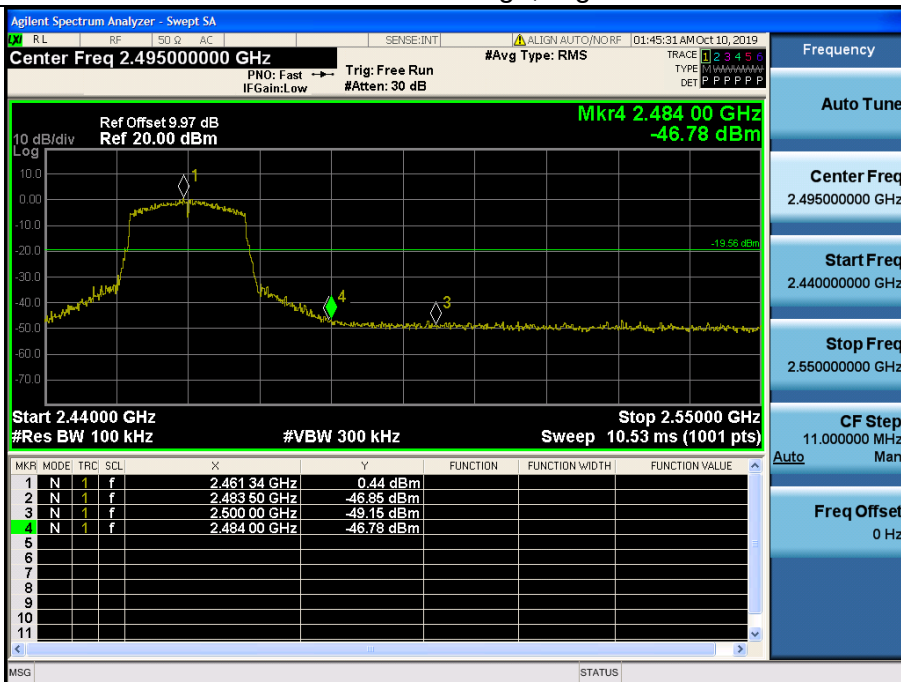




802.11n20: Band Edge, Left Side

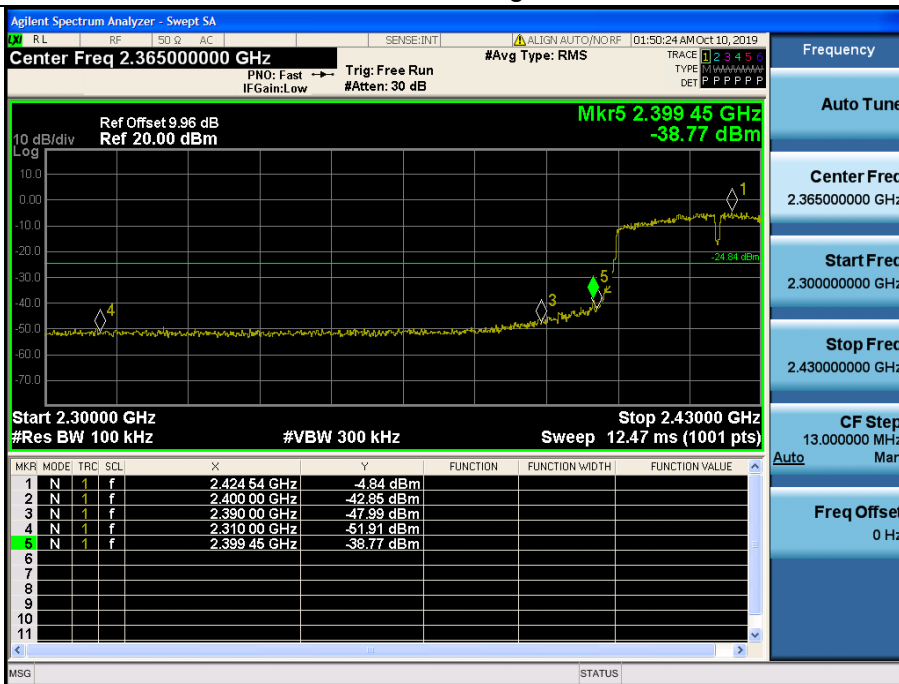


802.11n20: Band Edge, Right Side

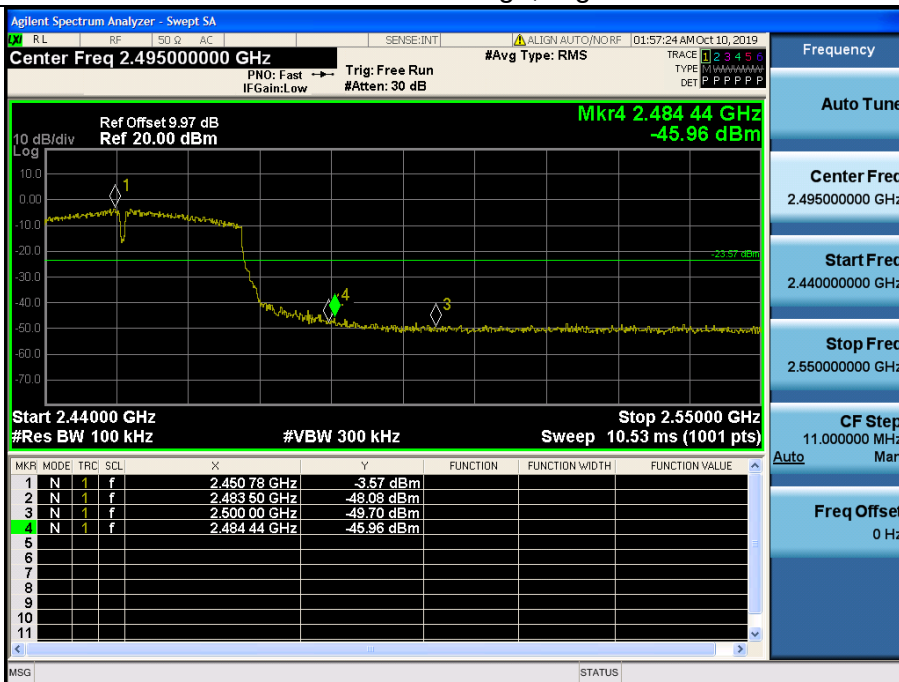




802.11n40: Band Edge, Left Side



802.11n40: Band Edge, Right Side

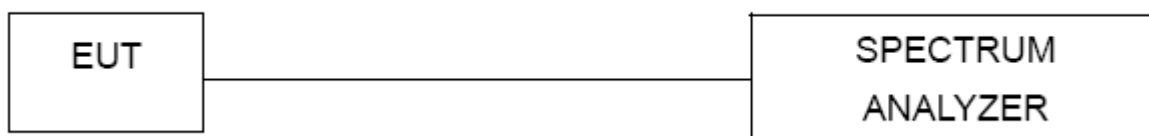


5.7 6dB bandwidth

5.7.1 Limit

Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5

5.7.2 Test setup



5.7.3 Test procedure

- Set RBW= 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

EUT Operation Conditions

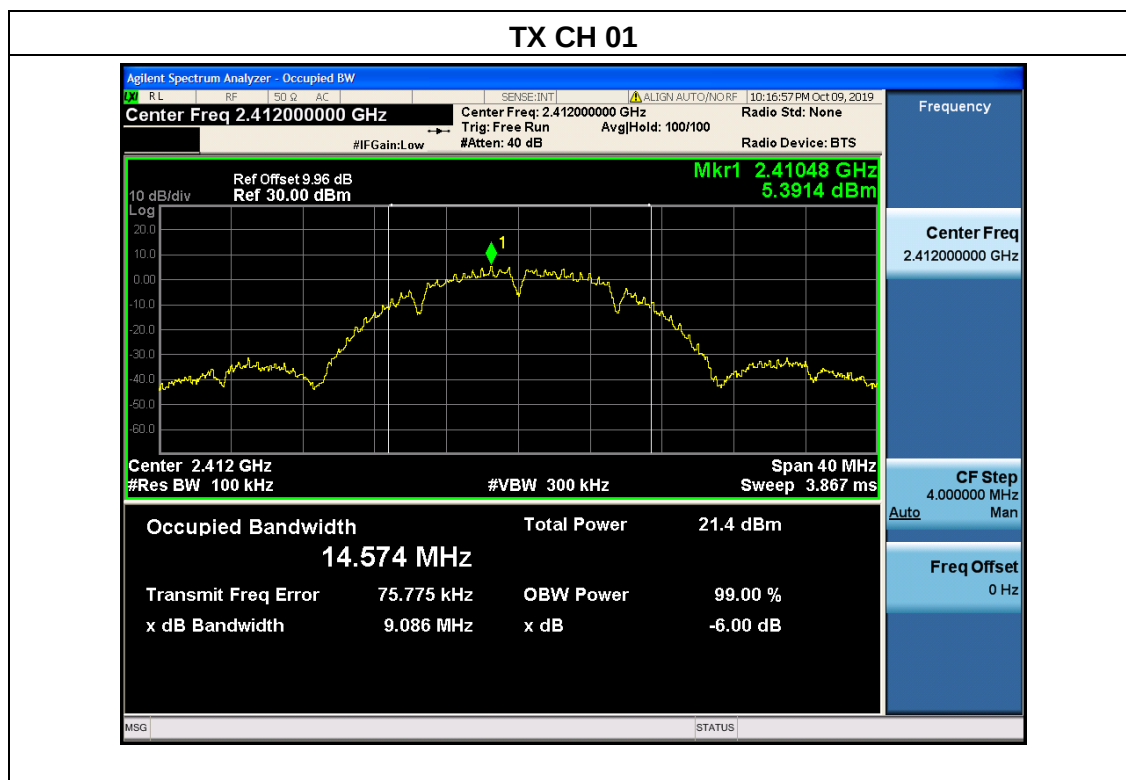
The EUT tested system was configured as the statements of 2.4 unless otherwise a special operating condition is specified in the follows during the testing.

5.7.4 Test results

ANT A

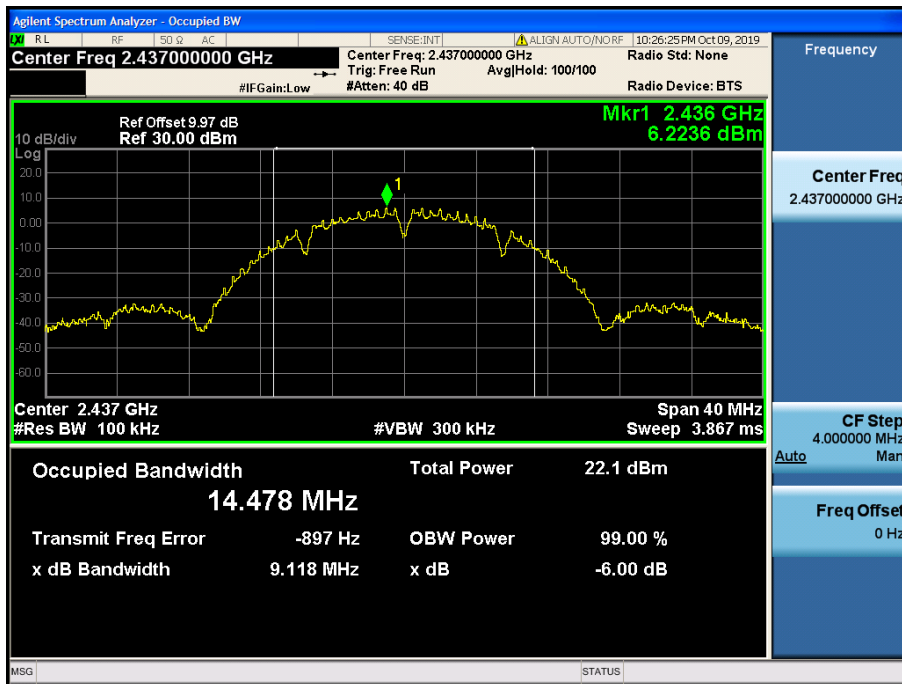
EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.086	500	Pass
Middle	2437	9.118	500	Pass
High	2462	9.081	500	Pass

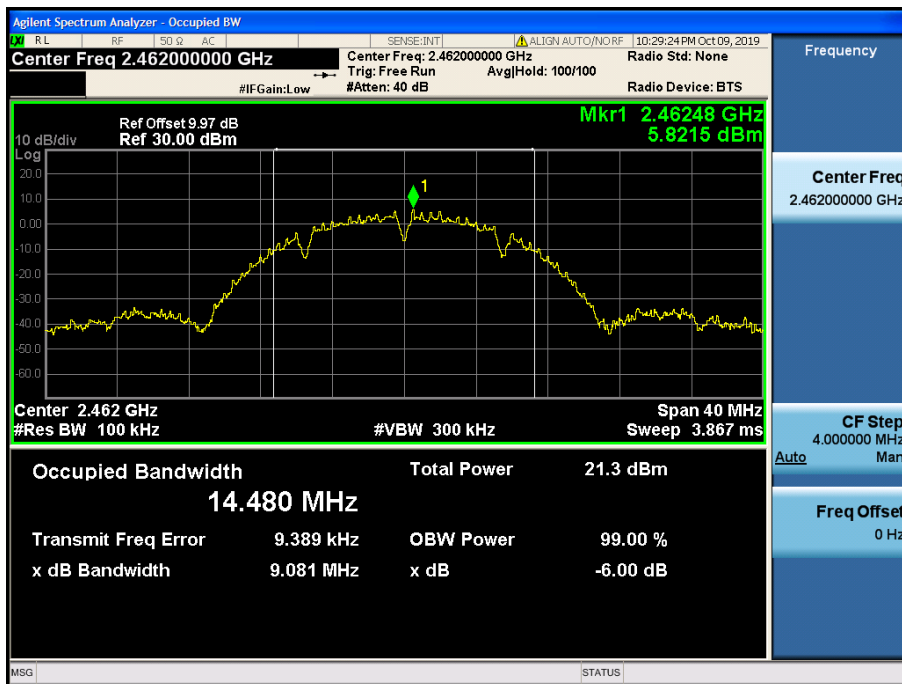




TX CH 06



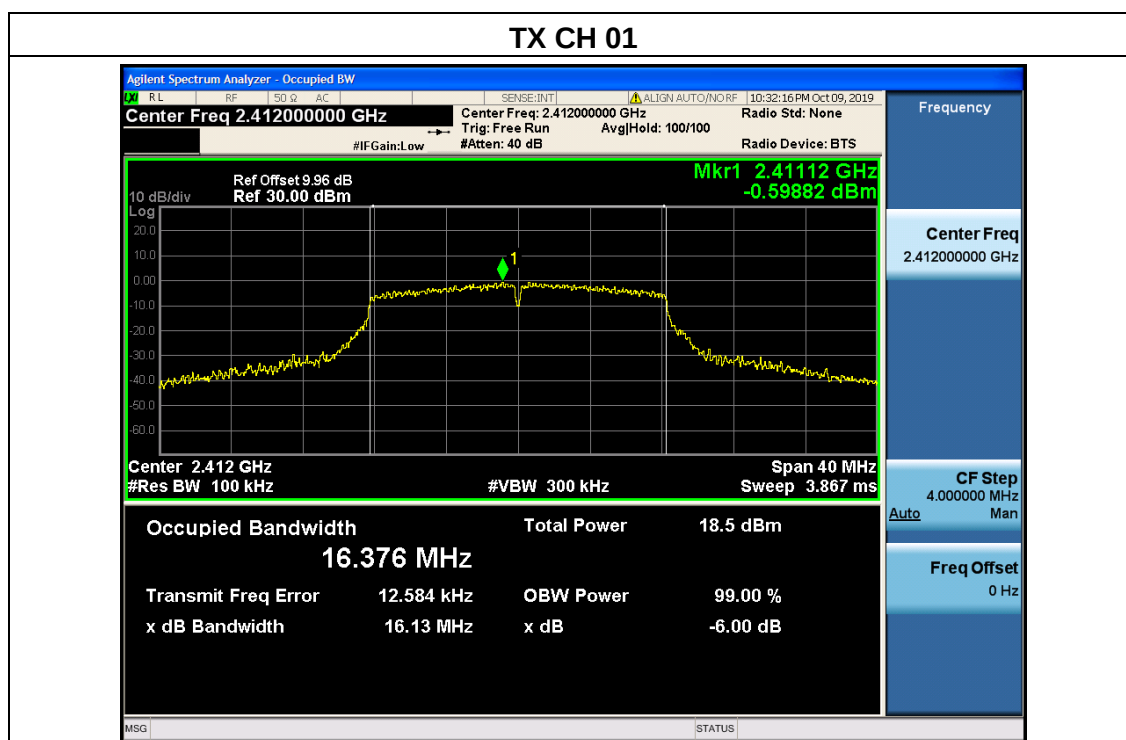
TX CH 11

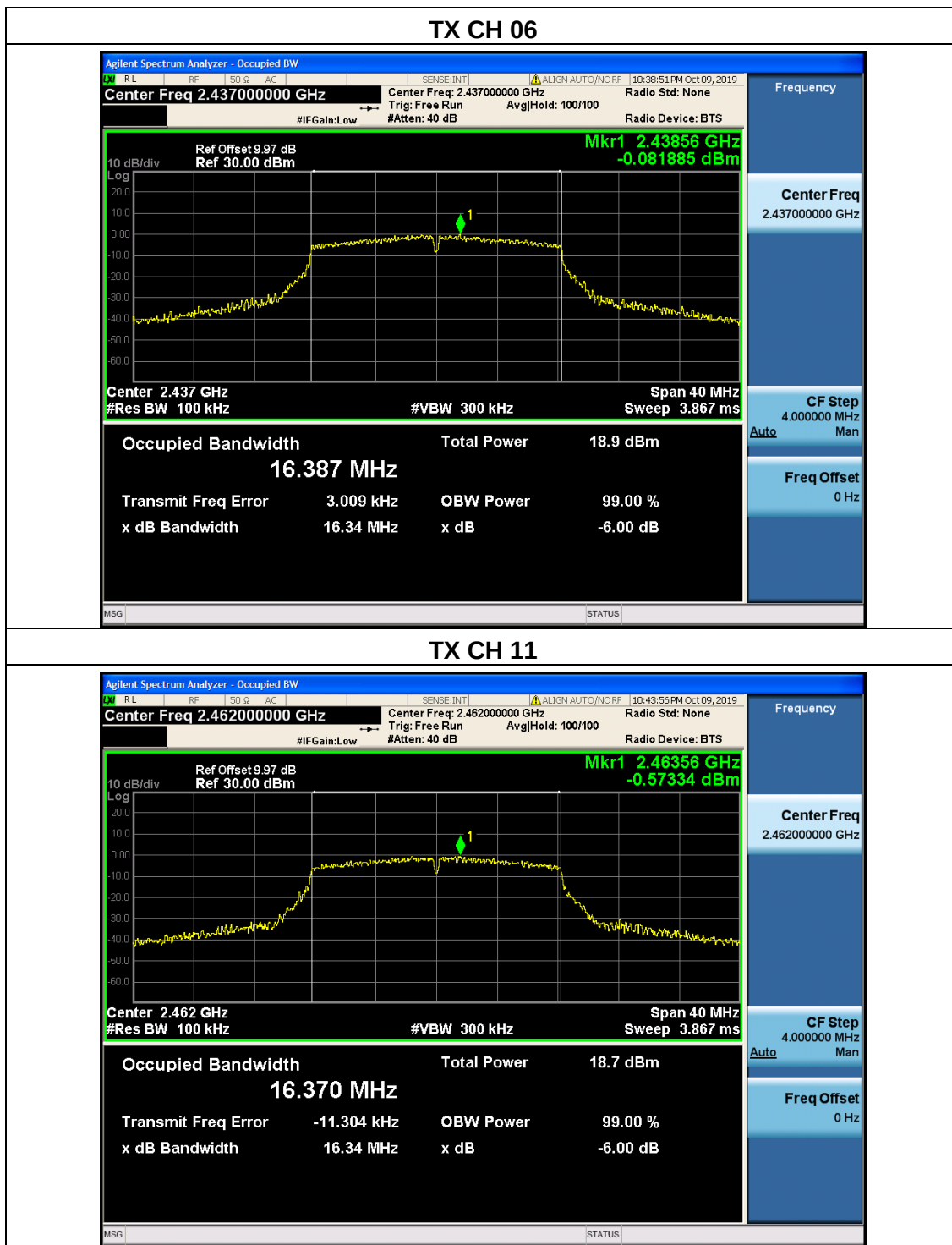




EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.13	500	Pass
Middle	2437	16.34	500	Pass
High	2462	16.34	500	Pass

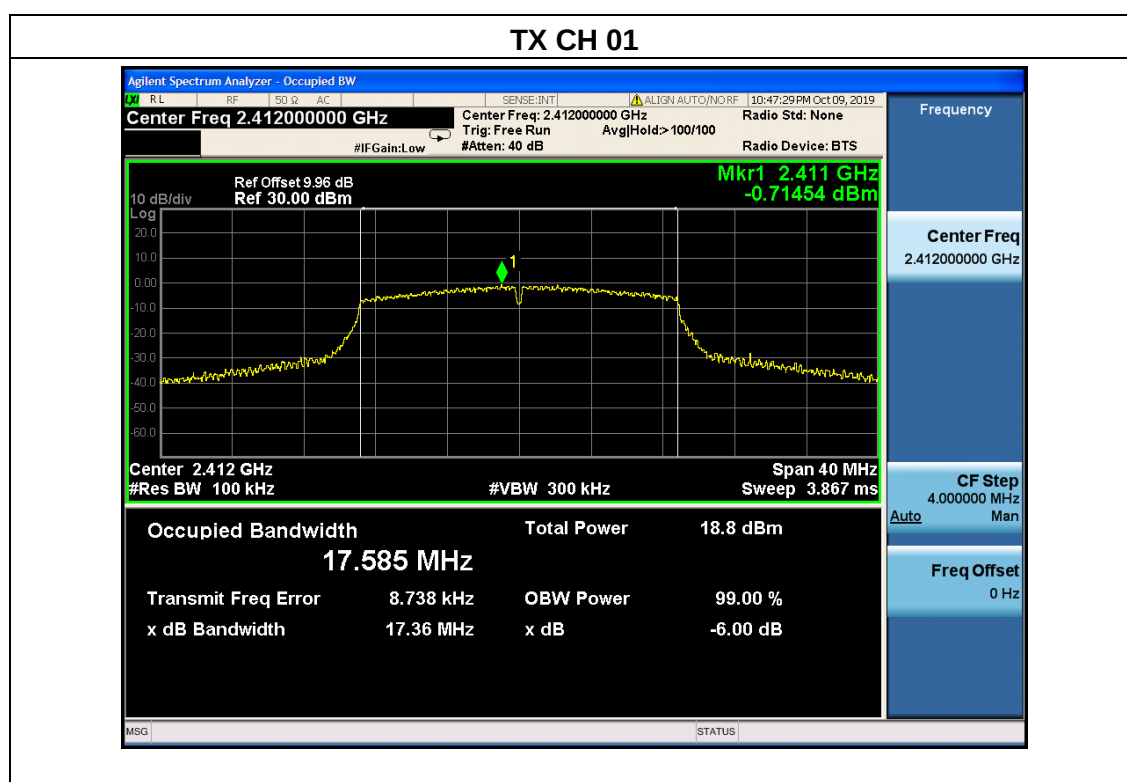






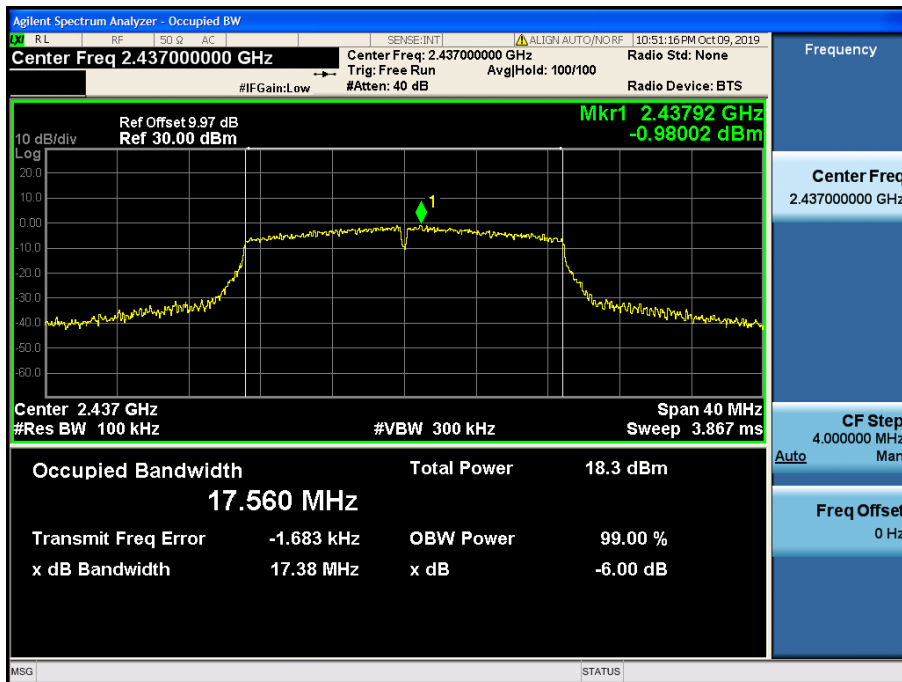
EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.36	500	Pass
Middle	2437	17.38	500	Pass
High	2462	17.62	500	Pass

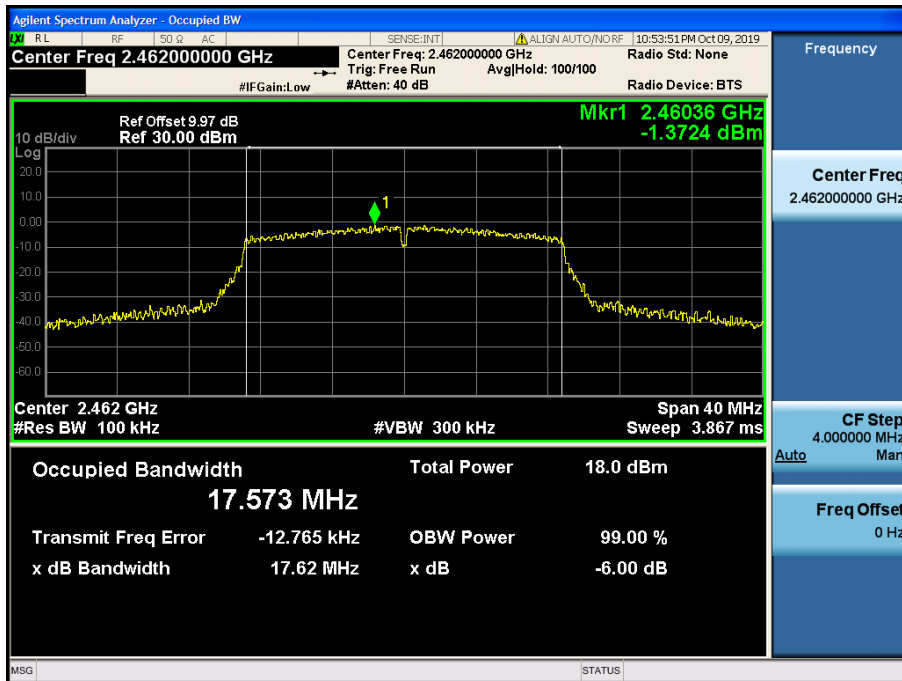




TX CH 06



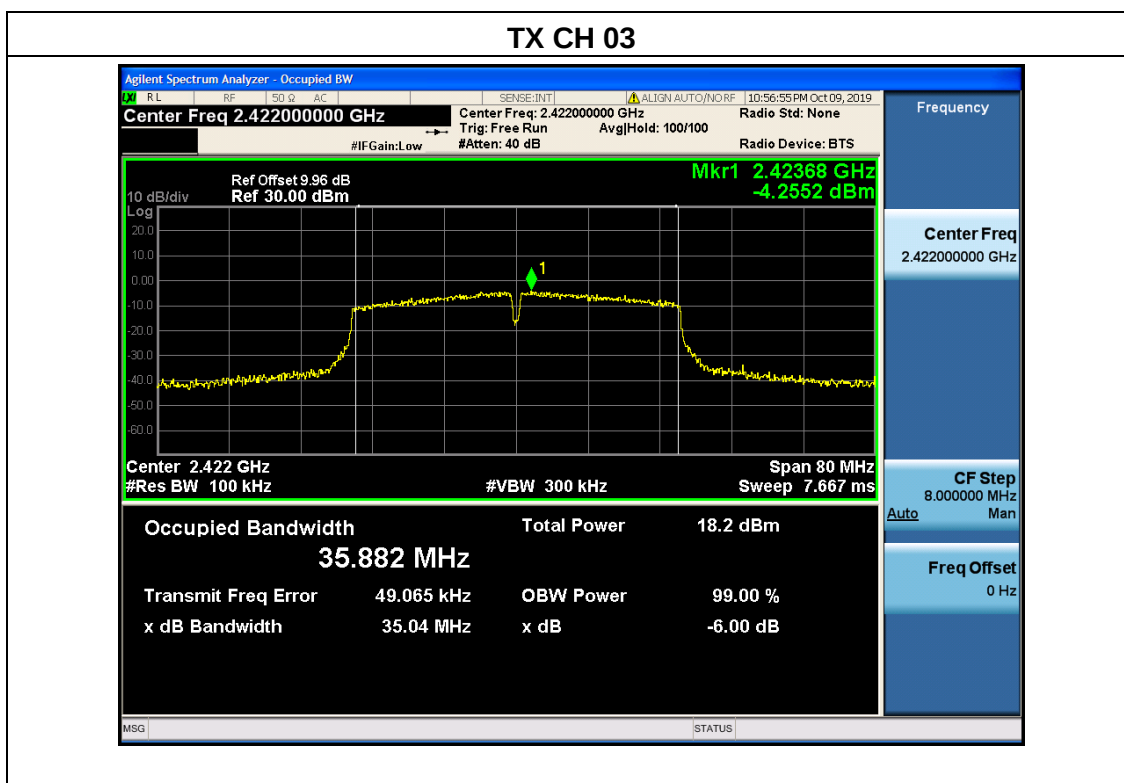
TX CH 11

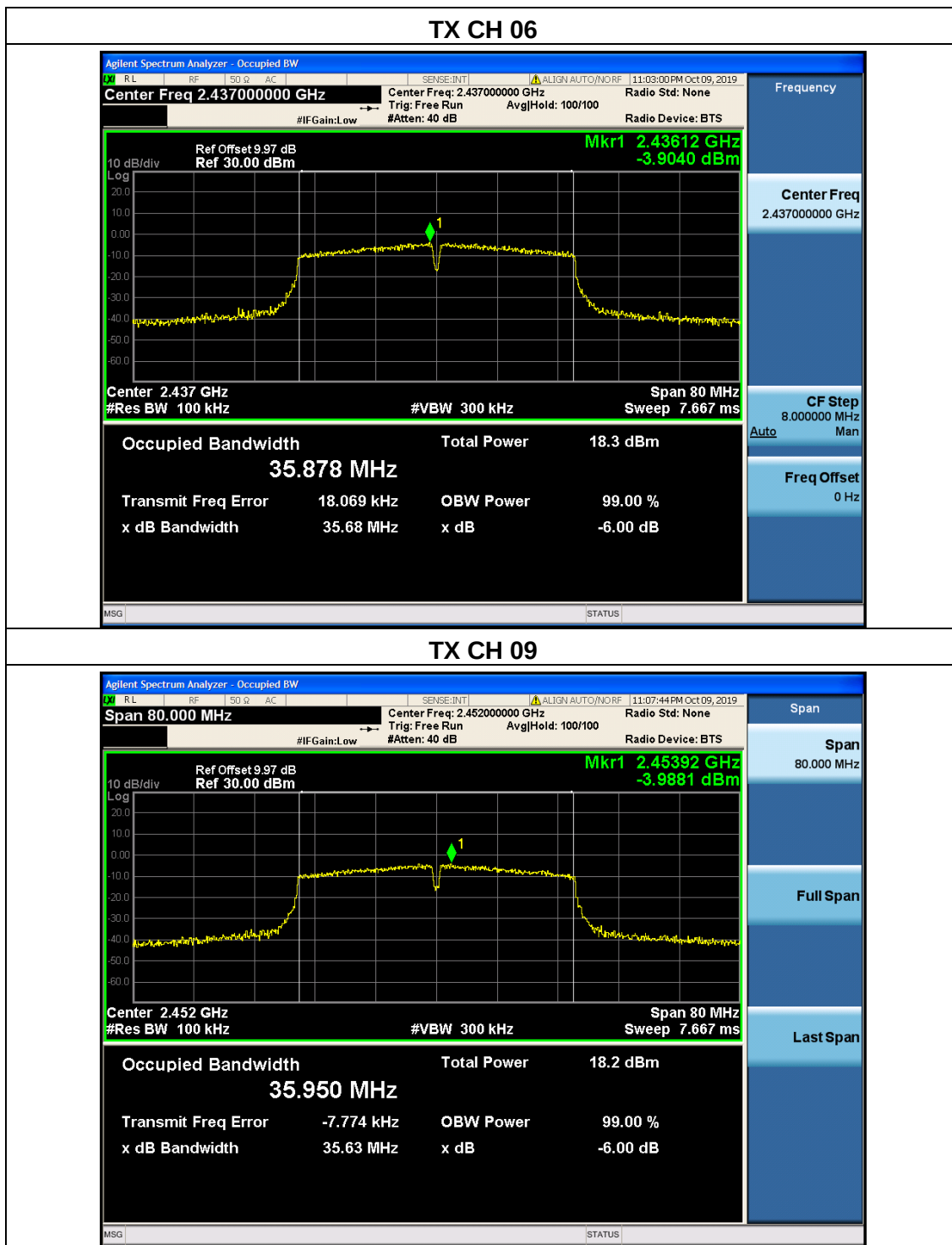




EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX n40 Mode /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.04	500	Pass
Middle	2437	35.68	500	Pass
High	2452	35.63	500	Pass

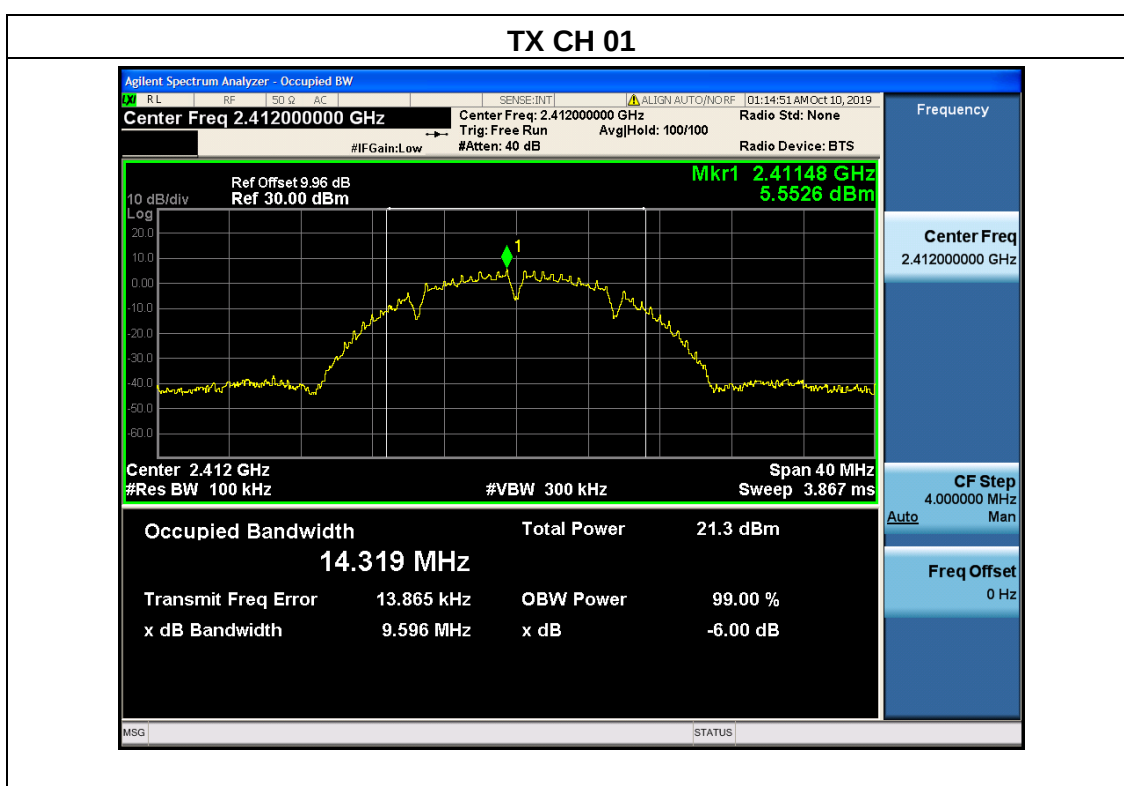




ANT B

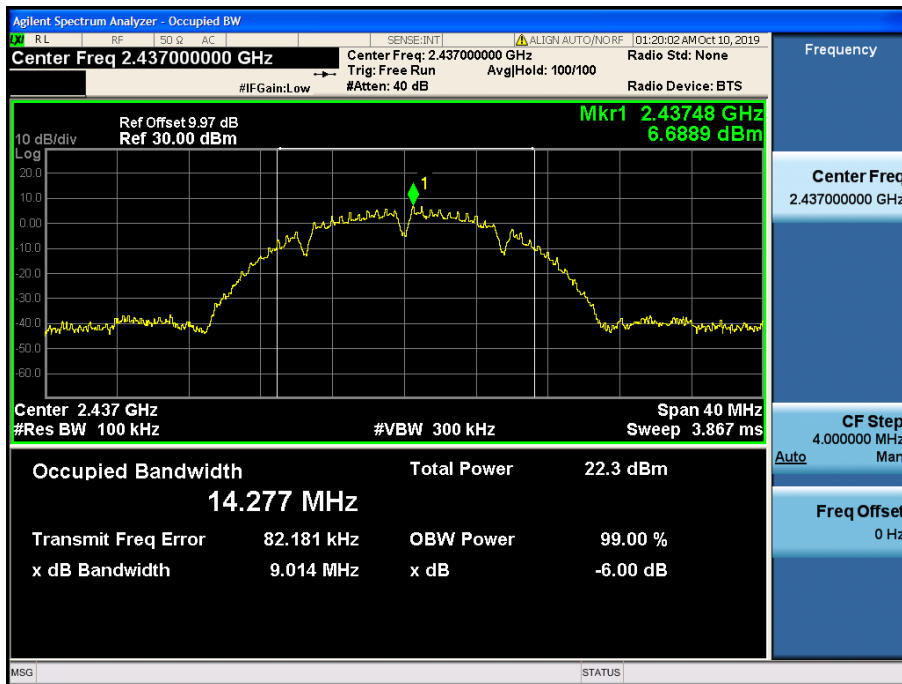
EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.596	500	Pass
Middle	2437	9.014	500	Pass
High	2462	9.082	500	Pass

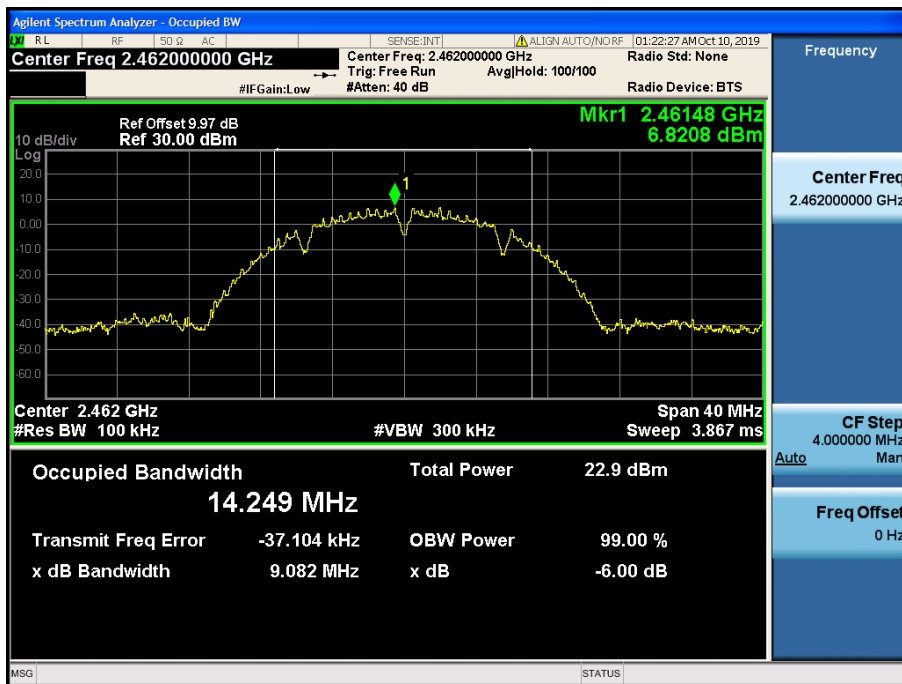




TX CH 06



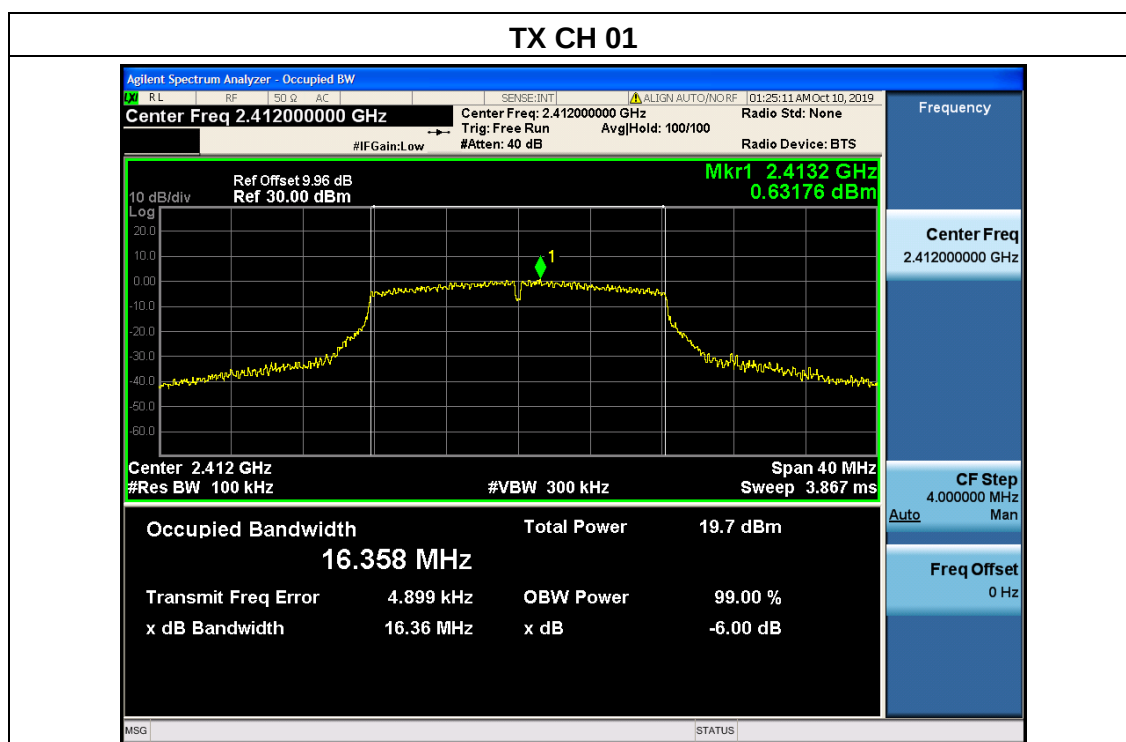
TX CH 11

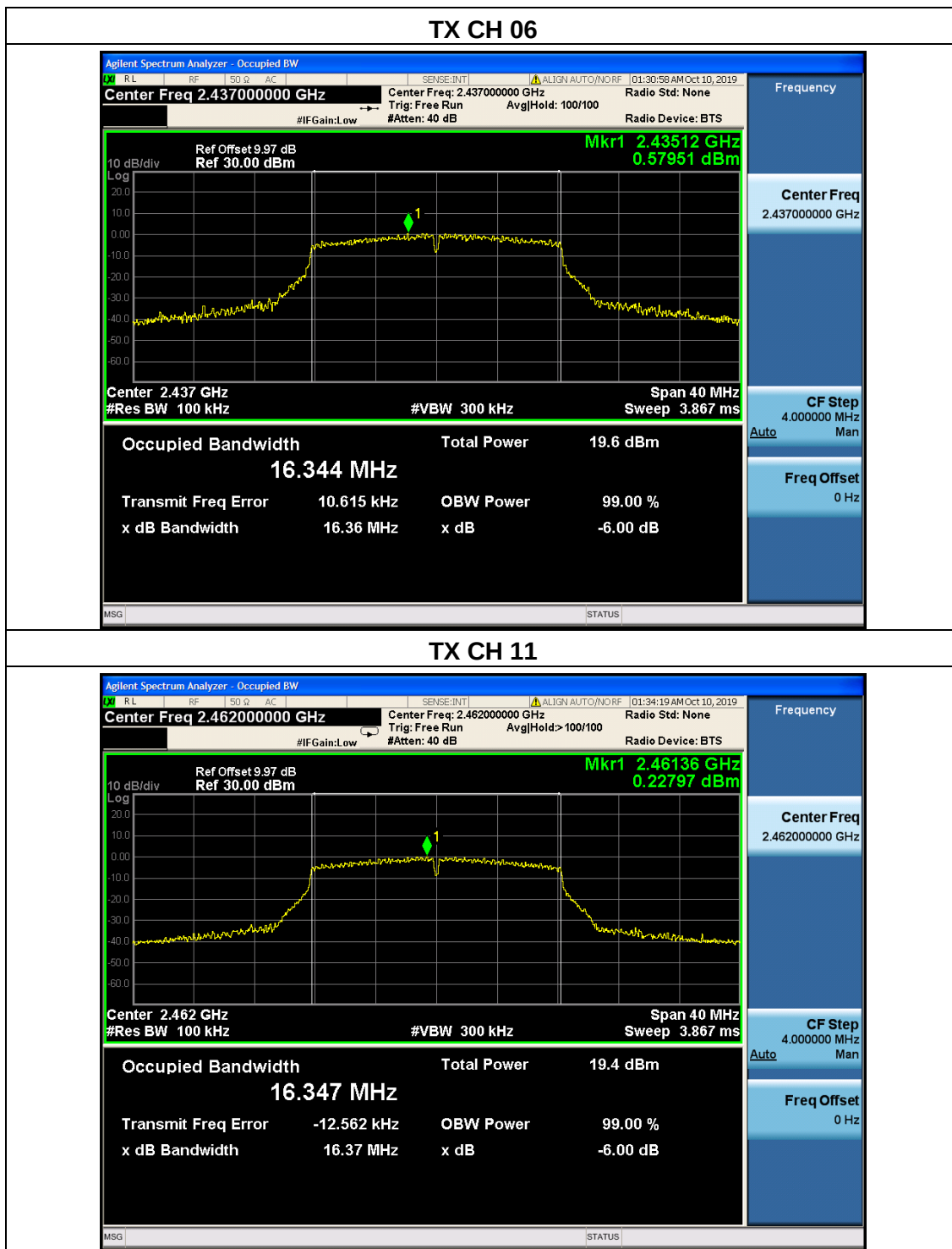




EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.36	500	Pass
Middle	2437	16.36	500	Pass
High	2462	16.37	500	Pass

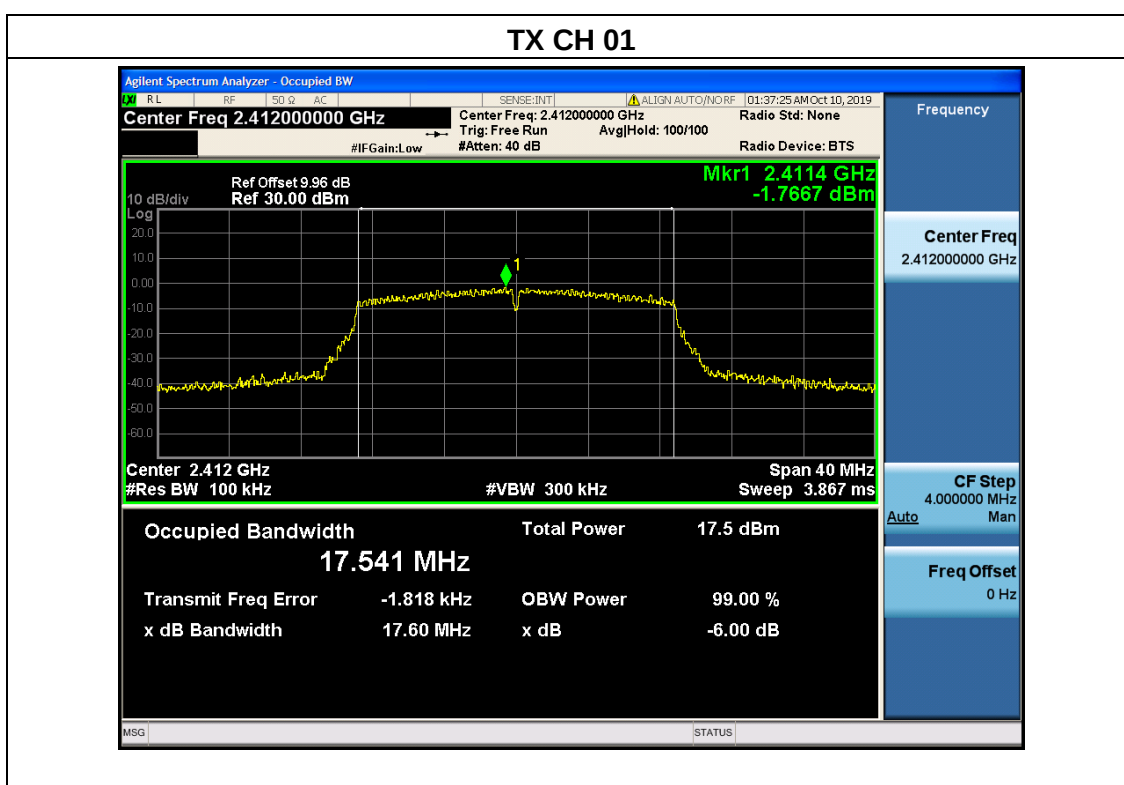


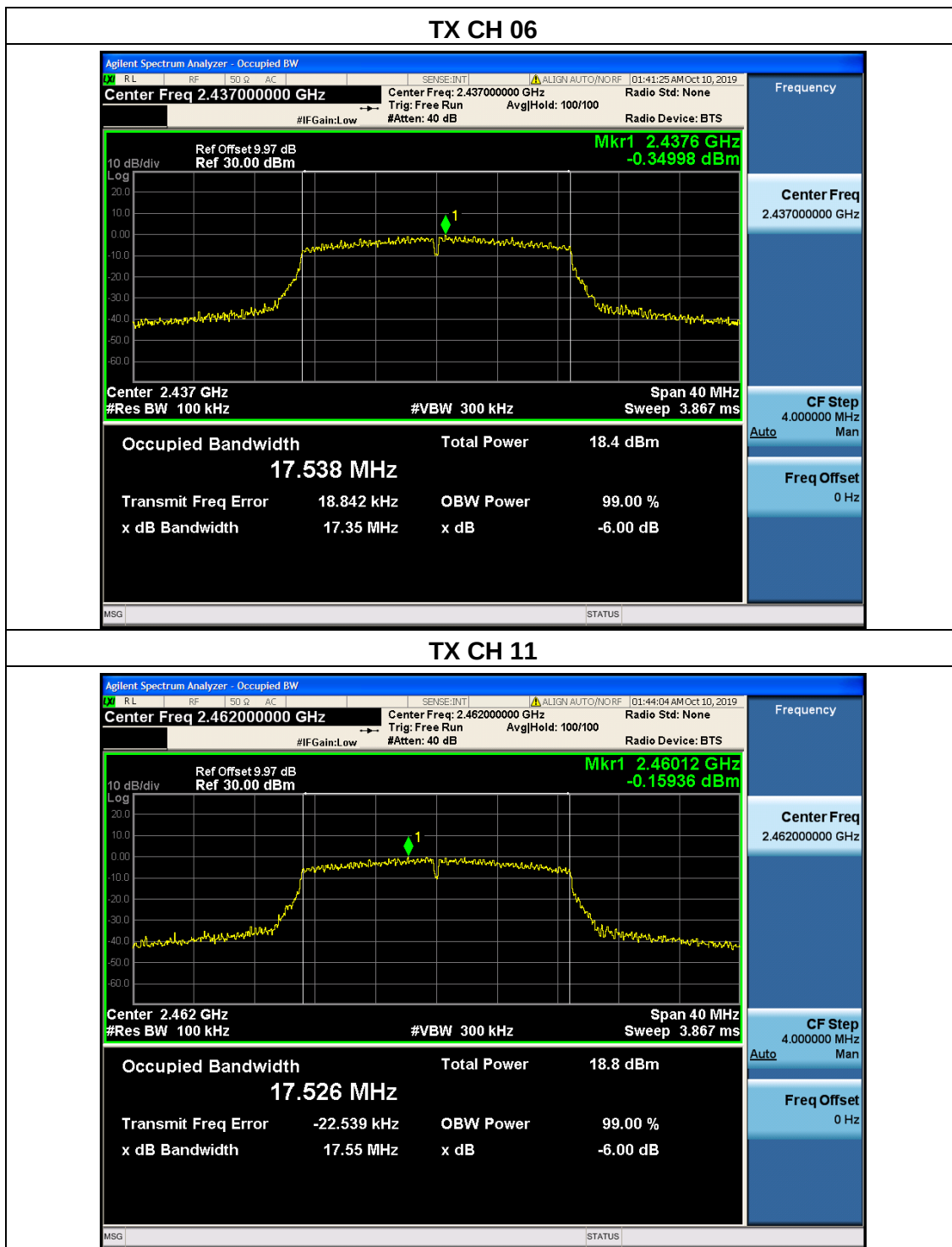




EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.60	500	Pass
Middle	2437	17.35	500	Pass
High	2462	17.55	500	Pass

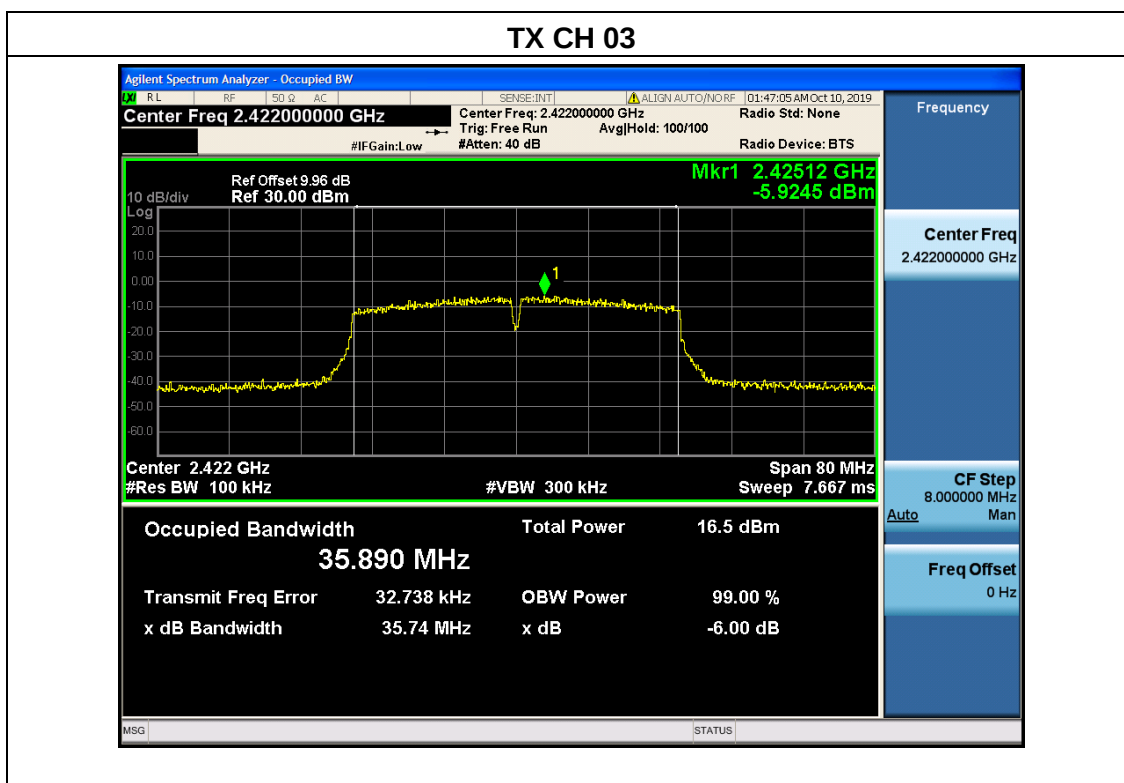


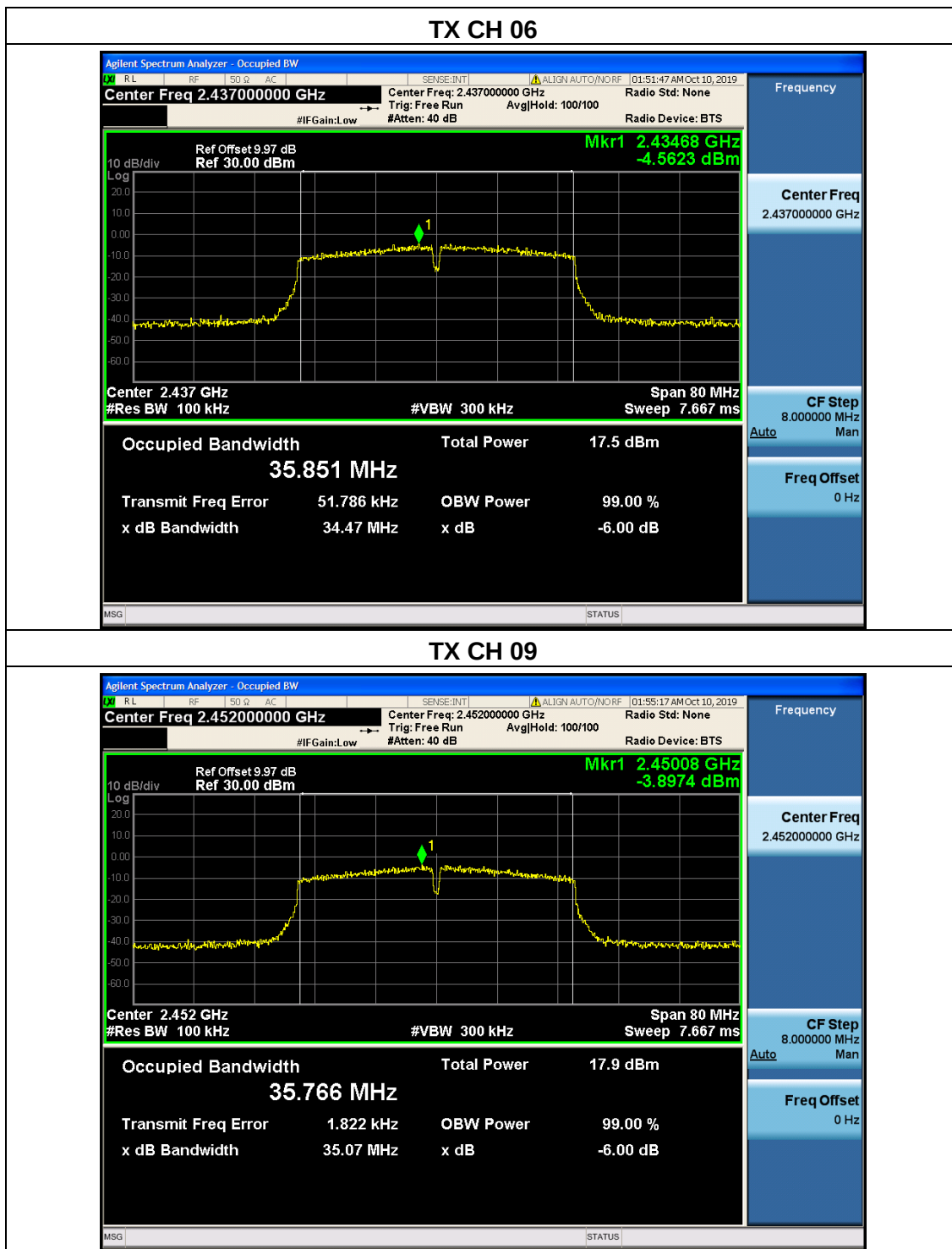




EUT :	Wireless XDSL Modem Router	Model Name. :	M605v AC
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter AC 120V/60Hz
Test Mode :	TX n40 Mode /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.74	500	Pass
Middle	2437	34.47	500	Pass
High	2452	35.07	500	Pass





5.8 Spurious RF Conducted Emissions

5.8.1 Conformance Limit

Below -20dB of the highest emission level in operating band.

5.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

5.8.3 Test Setup

Please refer to Section 6.1 of this test report.

5.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW=300kHz to measure the peak field strength, and measure frequency range from 9kHz to 26.5GHz.

5.8.5 Test Results

Remark: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

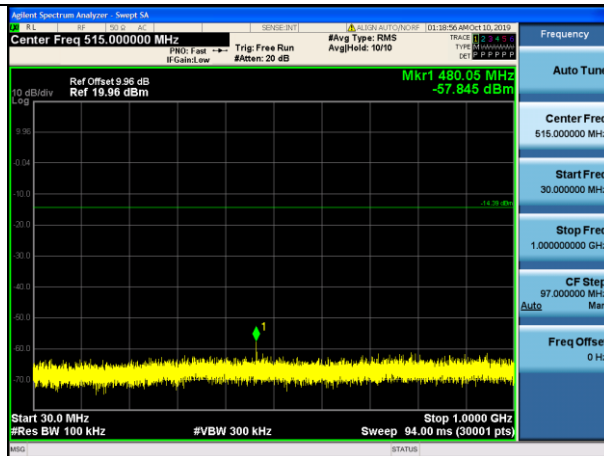
Note1: The antenna A and antenna B have been tested. The report only shows the worst antenna. The worst case is ANT B 802.11b.



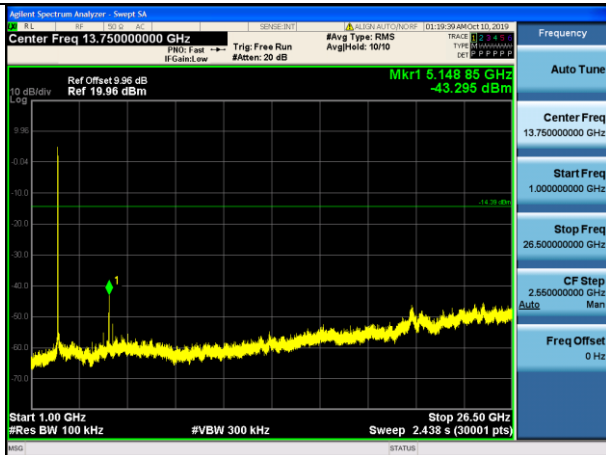
802.11b on Channel 01



802.11b on Channel 01



802.11b on Channel 01

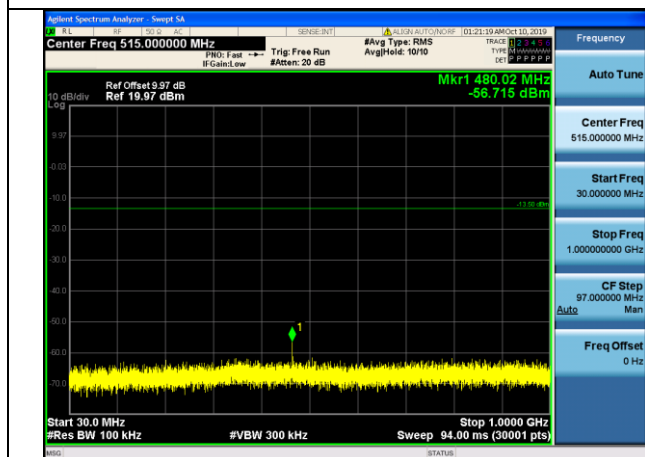


802.11b on Channel 06

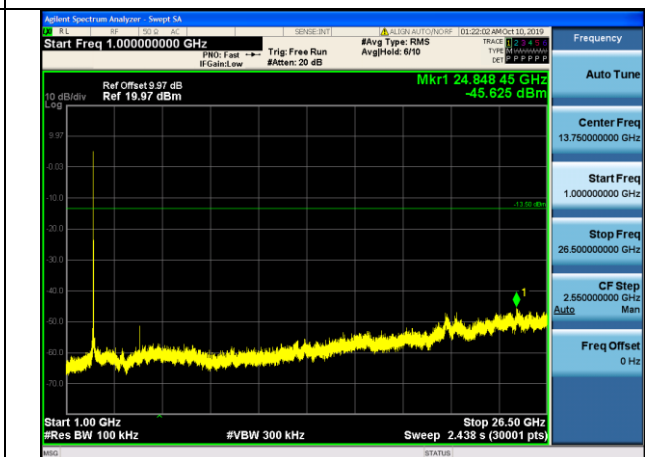




802.11b on Channel 06



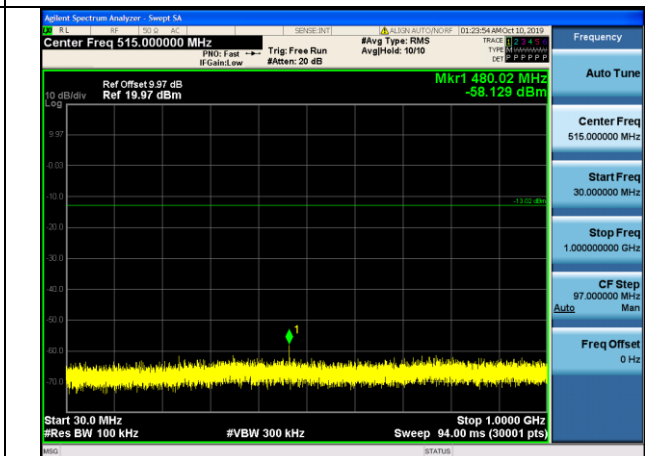
802.11b on Channel 06



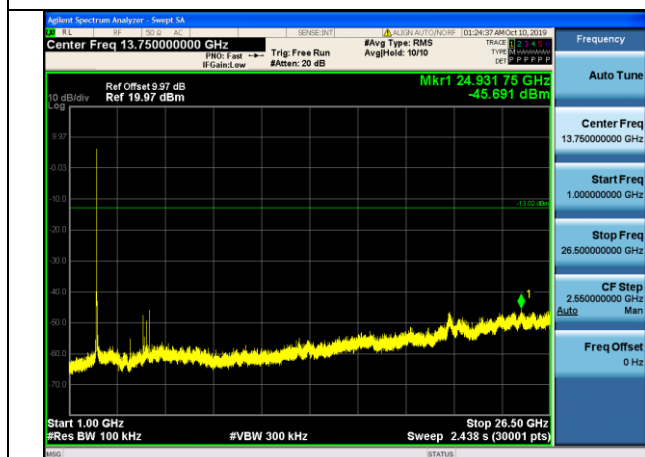
802.11b on Channel 11



802.11b on Channel 11



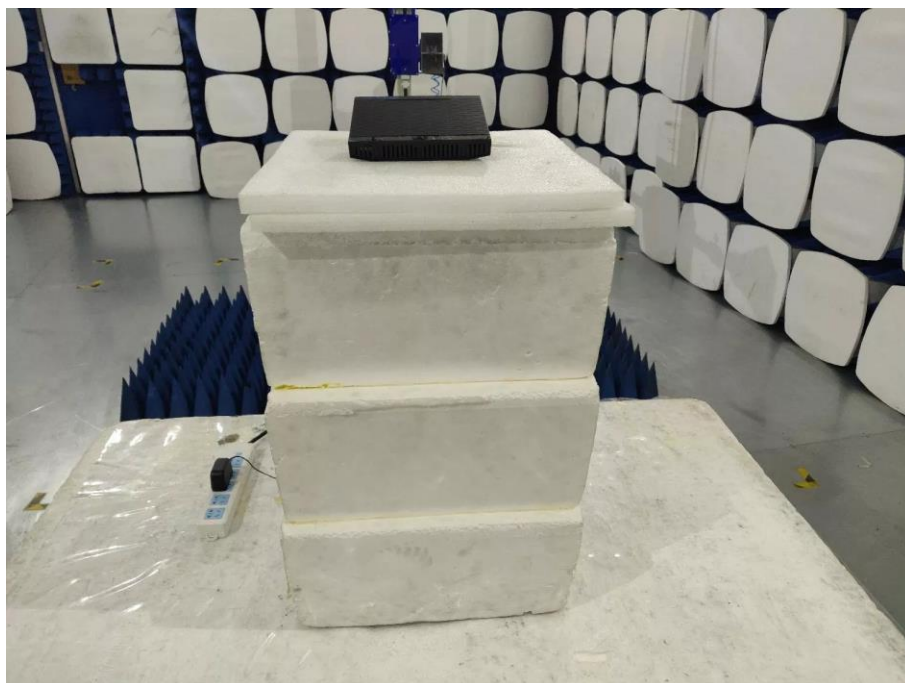
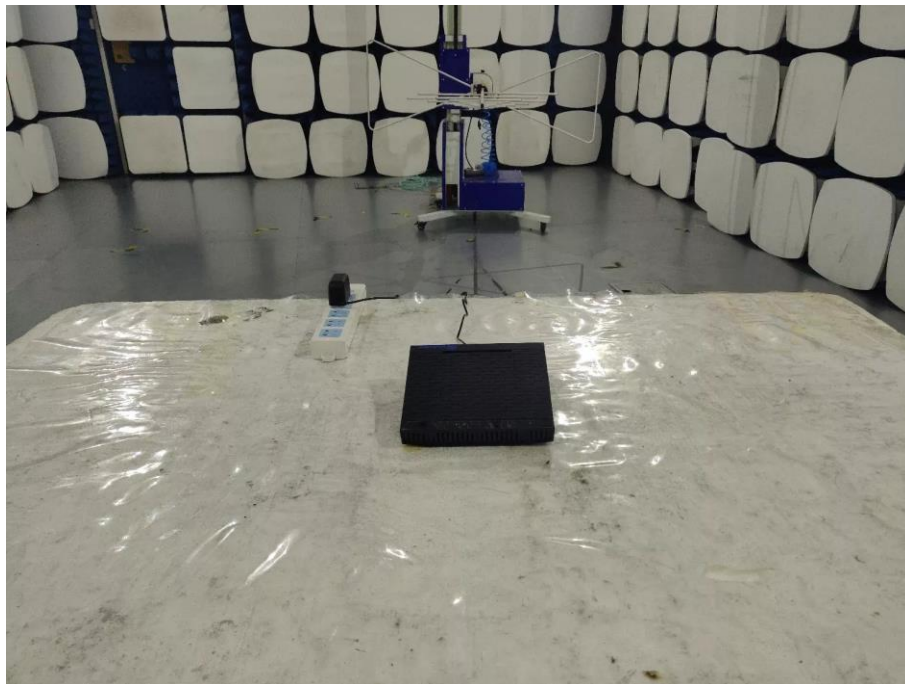
802.11b on Channel 11





Photographs of the Test Setup

Radiated emission





Conducted emission





Photographs of the EUT

See the APPENDIX 1: EUT PHOTO in the report No.: MTi19091904-1E1-1.

----END OF REPORT----