



FCC Radio Test Report

FCC ID: MCLCSE300APK9

This report concerns (check one) : Original Grant Class II Change

Issued Date : Sep. 01, 2011
Project No. : 1108C254
Equipment : Cisco Edge 300
Model Name : CS-E300-AP-K9;HS-E300-AP-K9
Applicant : Hon Hai Precision Ind., Co.,Ltd.
Address : 5F-1, 5, Hsin-An Road, Hsinchu Science-Based
Industrial Park Hsinchu Taiwan
Manufacturer : Cisco Systems, Inc.
Address : 170 West Tasman Drive, San Jose, CA 95134-1706
U.S.A

Tested by:

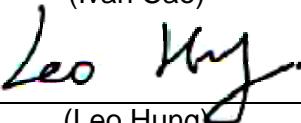
Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Aug. 10, 2011

Date of Test:

Aug. 10, 2011 ~ Aug. 31, 2011

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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1. CERTIFICATION

Equipment: Cisco Edge 300

Brand Name : Cisco

Model Name : CS-E300-AP-K9;HS-E300-AP-K9

Applicant: Hon Hai Precision Ind., Co.,Ltd.

Factory: HONG FU JIN PRECISION INDUSTRY (SHEN ZHEN) CO LTD
Bldg. D10, F21, No. 2, 2ND DONGHUAN ROAD, 10TH YOUSONG

Address: INDUSTRIAL DISTRICT, LONGHUA TOWN, BAOAN, SHENZHEN,
GUANGDONG, CHINA

Date of Test: Aug. 10, 2011 ~ Aug. 31, 2011

Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.247) / ANSI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-2-1108C254) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test result included in this report for the 802.11b/g/n (MIMO) approval part



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard	Section	Test Item	Judgment	Remark
	15.207	Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -6.28 dB at 0.619 MHz.
	15.247(d)	Antenna conducted Spurious Emission	PASS	Meets the requirements
	15.247(a)(2)	6dB Bandwidth	PASS	Meets the requirements
	15.247(b)(3)	Peak Output Power	PASS	Meets the requirements
	15.209/15.205	Radiated Spurious Emission	PASS	Meet the requirement of limit. Minimum passing margin is -5.05 dB at 668.26 MHz.
	15.247(e)	Power Spectral Density	PASS	Meets the requirements
	15.203	Antenna Requirement	PASS	Meets the requirements

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-CB03/DG-C01** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

DG-C01 : (VCCI RN: C-3893/T-2013; FCC RN: 248549)

DG-CB03 : (VCCI RN: G-95; FCC RN: 319330; IC Assigned Code: 4428B-1)

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C01	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	30MHz ~ 1000MHz	V	3.42	
		30MHz ~ 1000MHz	H	3.54	
		1GHz~26.5GHz	V	3.12	
		1GHz~26.5GHz	H	3.68	



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Cisco Edge 300														
Brand Name	Cisco														
Model Name	CS-E300-AP-K9;HS-E300-AP-K9														
OEM Brand/Model Name	N/A														
Model Difference	Hardware design are all the same just for different customer usage.														
Product Description	<p>The EUT is a Cisco Edge 300.</p> <table border="1"><tr><td>Operation Frequency:</td><td>2412~2462 MHz</td></tr><tr><td>Modulation Type:</td><td>802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM (2TX/2RX)</td></tr><tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps Draft 802.11n:up to +300Mbps</td></tr><tr><td>Number of Channel</td><td>11 CH, Please see Note 2. (please see page 9)</td></tr><tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr><tr><td>Antenna Gain(Peak)</td><td>(please see page 9)</td></tr><tr><td>Output Power:</td><td>802.11b: 18.50dBm 802.11g: 20.30dBm 802.11n(20MHz): 21.36 dBm 802.11n(40MHz): 19.19 dBm</td></tr></table>	Operation Frequency:	2412~2462 MHz	Modulation Type:	802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM (2TX/2RX)	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps Draft 802.11n:up to +300Mbps	Number of Channel	11 CH, Please see Note 2. (please see page 9)	Antenna Designation:	Please see Note 3.	Antenna Gain(Peak)	(please see page 9)	Output Power:	802.11b: 18.50dBm 802.11g: 20.30dBm 802.11n(20MHz): 21.36 dBm 802.11n(40MHz): 19.19 dBm
Operation Frequency:	2412~2462 MHz														
Modulation Type:	802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM (2TX/2RX)														
Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps Draft 802.11n:up to +300Mbps														
Number of Channel	11 CH, Please see Note 2. (please see page 9)														
Antenna Designation:	Please see Note 3.														
Antenna Gain(Peak)	(please see page 9)														
Output Power:	802.11b: 18.50dBm 802.11g: 20.30dBm 802.11n(20MHz): 21.36 dBm 802.11n(40MHz): 19.19 dBm														
	<p>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</p>														
Power Source	#1 DC Voltage supplied from AC/DC adapter Brand name: LITEON ; Model name:PA-1600-2A-LF #2 DC Voltage supplied from AC/DC adapter Brand name: DELTA ; Model name: EADP-60MB B														
Power Rating	#1 I/P 100-240VAC~ 50-60Hz, 2A O/P 12V, 5A #2 I/P 100-240VAC~ 50-60Hz, 1.5A O/P 12V, 5A														



Connecting I/O Port(s)	USB ports HDMI port Audio out port Audio in port Gigabit Ethernet (uplink) port Ethernet (downlink) port Power
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)
CH 03 – CH 09 for 802.11n(40MHz)

Channel List

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

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Length (mm)
BT	FOXCON N	FX01B88-OG-EF-H	PCB	U.FL	3.10	41
WLAN	FOXCON N	FX01B89-OG-EF-H	PCB	U.FL	2.92	75
WLAN	FOXCON N	FX01B90-OG-EF-H	PCB	U.FL	2.98	175

4. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT2 or ANT3)	-
802.11g	V (ANT2 or ANT3)	-
802.11n(20MHz)	-	V (ANT2 & ANT3)
802.11n(40MHz)	-	V (ANT2 & ANT3)



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Test	
Final Test Mode	Description
Mode 5	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) During the output power test, all data rates have been investigated and the highest output powers were recorded are as follows:
 - 802.11b mode: DBPSK (1Mbps)
 - 802.11g mode: OFDM (6Mbps)
 - 802.11n HT20/HT40 mode : MCS8 (6Mbps)For radiated emission tests, the highest output powers were set for final test.
- (3) Worst-case mode and channel used for 30-1000 MHz radiated and power line conducted emissions was the mode and channel with the highest output power, that was determined to be 11n HT20 Channel 01



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

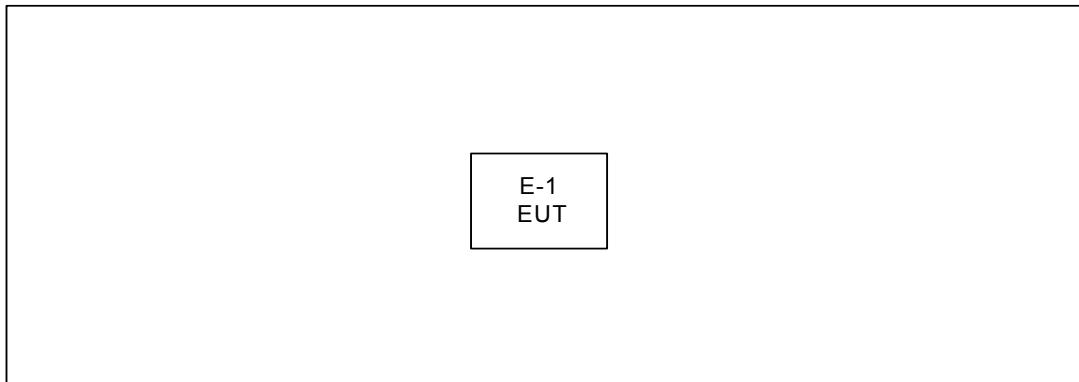
Test software Version	Test Program: RT537XQA		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	13	14	16
IEEE 802.11g OFDM	13	14	15

Test software Version	Test Program: RT537XQA		
Frequency (MHz)	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n (20MHz)	13(ANT1)	14(ANT1)	16(ANT1)
	13(ANT2)	14(ANT2)	16(ANT2)
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	OC(ANT1)	OE(ANT1)	OE(ANT1)
	OC(ANT2)	OE(ANT2)	OE(ANT2)



3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation:



**3.2 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)**

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	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Cisco Edge 300	Cisco	CS-E300-AP-K9	MCLCSE300APK9	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
	N/A	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Conformity.
- (2) For detachable type I/O cable should be specified the length in m in 『Length』 column.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	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.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2SH	00052766	May.26.2012
2	LISN	R&S	ENV216	100526	May.26.2012
3	Test Cable	N/A	RG400 12m	N/A	Mar.18.2012
4	EMI TEST RECEIVER	R&S	ESCI	100895	May.26.2012
5	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2012

Remark: " N/A" denotes No Model Name. , Serial No. or No Calibration specified.

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



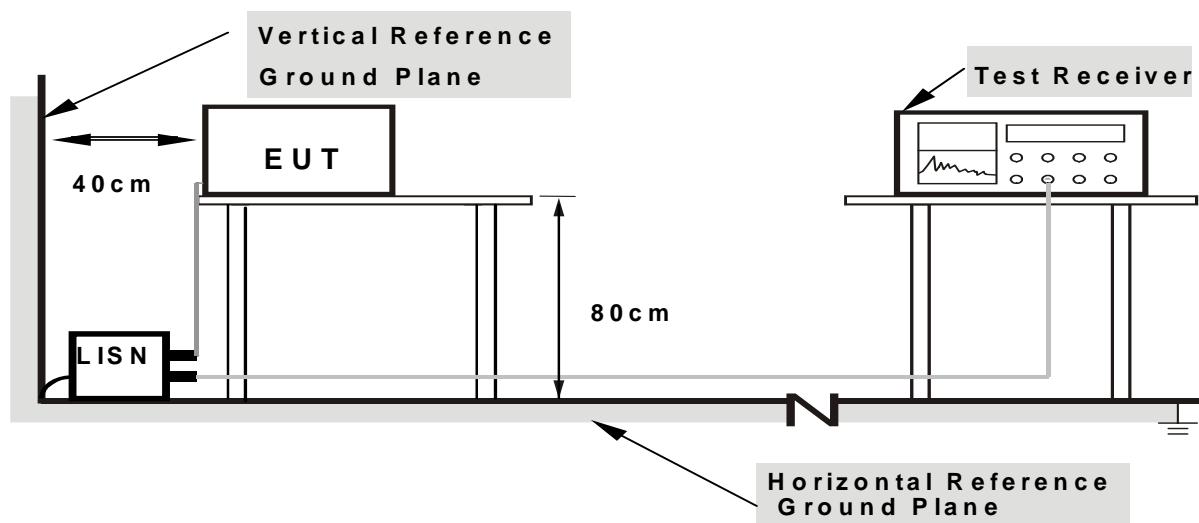
4.1.3 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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 cm from other units and other metal planes

4.1.6 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.

The EUT was programmed to be in continuously transmitting / Hopping on mode.

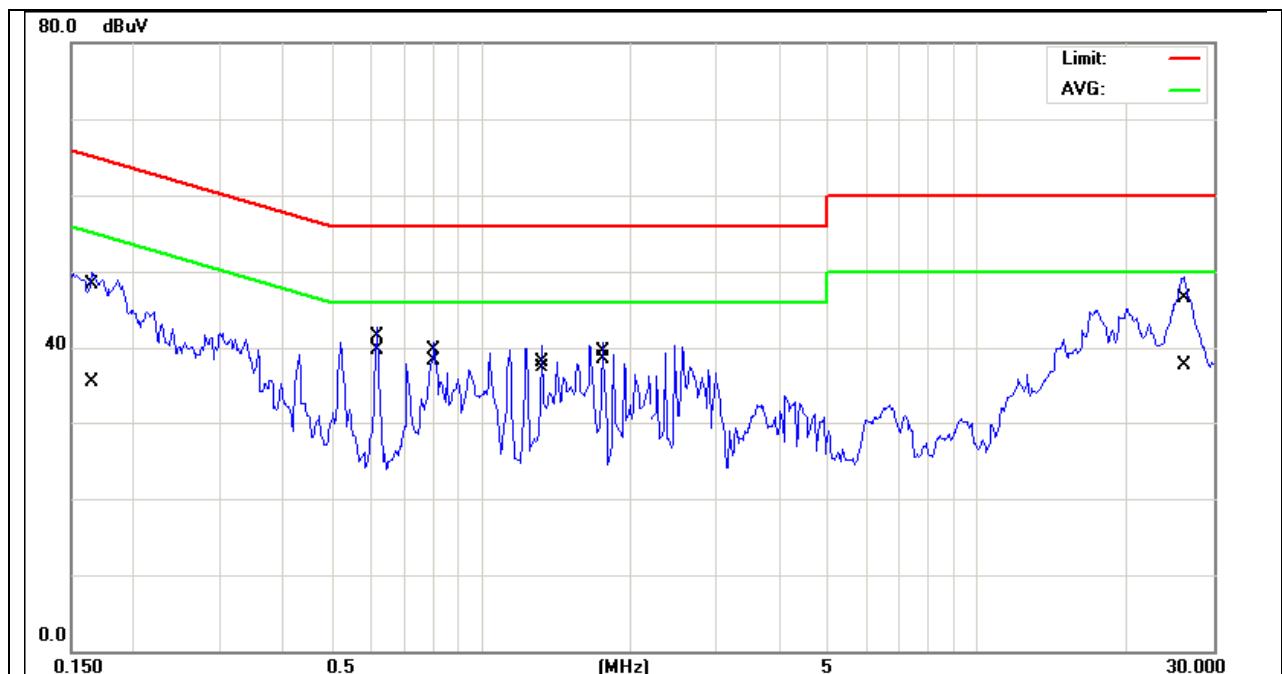
**4.1.7 TEST RESULTS**

EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	20 °C		Relative Humidity :	50 %	
Pressure :	1010hPa		Test Power :	AC 120V/60Hz	
Test Mode :	TX Mode (Adapter: PA-1600-2A-LF)				

Freq. (MHz)	Terminal L/N	Reading Level(dBuV)		Correct Factor(dB)	Measurement(dBuV)		Limit(dBuV)		Margin(dB)	
		QP-Mode	AV-Mode		QP-Mode	AV-Mode	QP-Mode	AV-Mode	QP-Mode	AV-Mode
0.165	Line	38.67	25.69	9.70	48.37	35.39	65.21	55.21	-16.84	-19.82
0.619	Line	31.86	29.98	9.74	41.60	39.72	56.00	46.00	-14.40	- 6.28
0.806	Line	29.86	28.51	9.75	39.61	38.26	56.00	46.00	-16.39	- 7.74
1.330	Line	28.36	27.43	9.82	38.18	37.25	56.00	46.00	-17.82	- 8.75
1.756	Line	29.68	28.62	9.90	39.58	38.52	56.00	46.00	-16.42	- 7.48
26.160	Line	35.20	26.35	11.36	46.56	37.71	60.00	50.00	-13.44	-12.29

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.2 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz.
- (2) Margin value = Measurement level – Limit value.
Correct factor = Insertion loss + Cable loss.
Measurement level = Correct factor + Reading level.
- (3) Measuring frequency range from 150KHz to 30MHz.



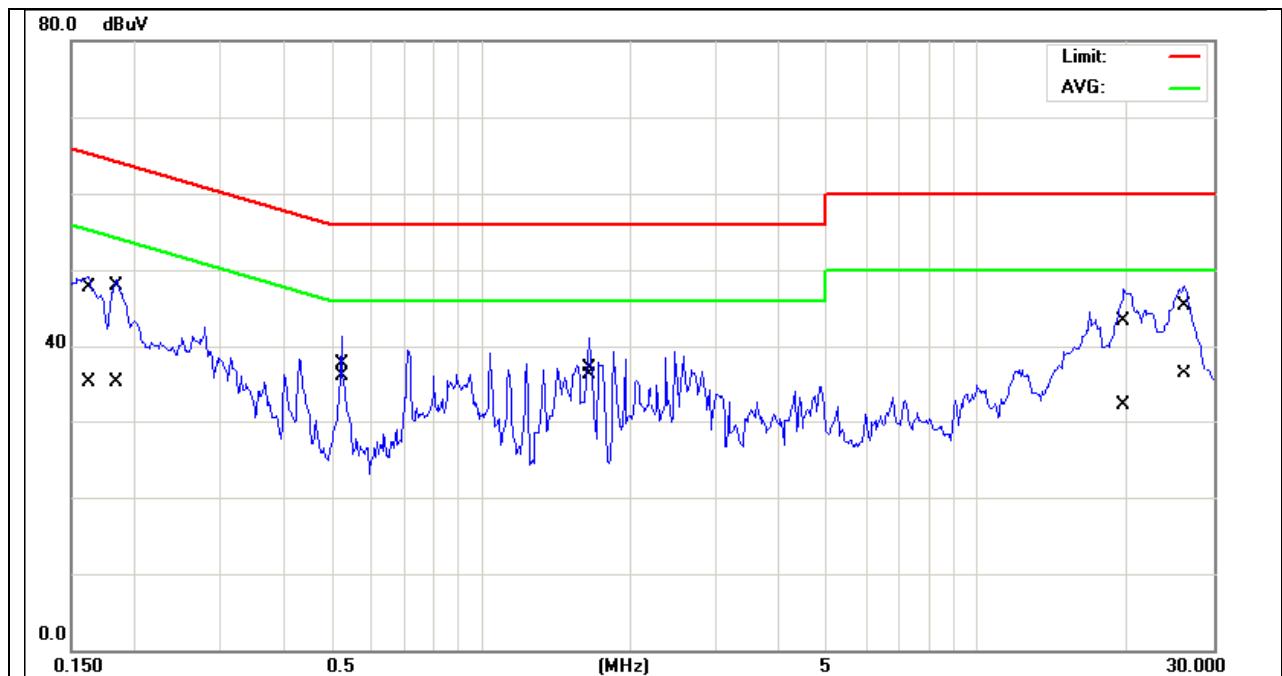


EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9		
Temperature :	20 °C		Relative Humidity :	50 %		
Pressure :	1010hPa		Test Power :	AC 120V/60Hz		
Test Mode :	TX Mode (Adapter: PA-1600-2A-LF)					

Freq. (MHz)	Terminal L/N	Reading Level(dBuV)		Correct Factor(dB)	Measurement(dBuV)		Limit(dBuV)		Margin(dB)	
		QP-Mode	AV-Mode		QP-Mode	AV-Mode	QP-Mode	AV-Mode	QP-Mode	AV-Mode
0.162	Neutral	38.02	25.36	9.69	47.71	35.05	65.36	55.36	-17.65	-20.31
0.184	Neutral	38.26	25.35	9.70	47.96	35.05	64.29	54.29	-16.33	-19.24
0.525	Neutral	27.96	26.13	9.73	37.69	35.86	56.00	46.00	-18.31	-10.14
1.645	Neutral	27.32	26.21	9.88	37.20	36.09	56.00	46.00	-18.80	-9.91
19.801	Neutral	32.21	21.01	11.15	43.36	32.16	60.00	50.00	-16.64	-17.84
26.215	Neutral	33.98	25.02	11.36	45.34	36.38	60.00	50.00	-14.66	-13.62

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.2 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz, VBW=10KHz, Swp. Time =0.2 sec./MHz.
- (2) Margin value = Measurement level – Limit value.
Correct factor = Insertion loss + Cable loss.
Measurement level = Correct factor + Reading level.
- (3) Measuring frequency range from 150KHz to 30MHz.



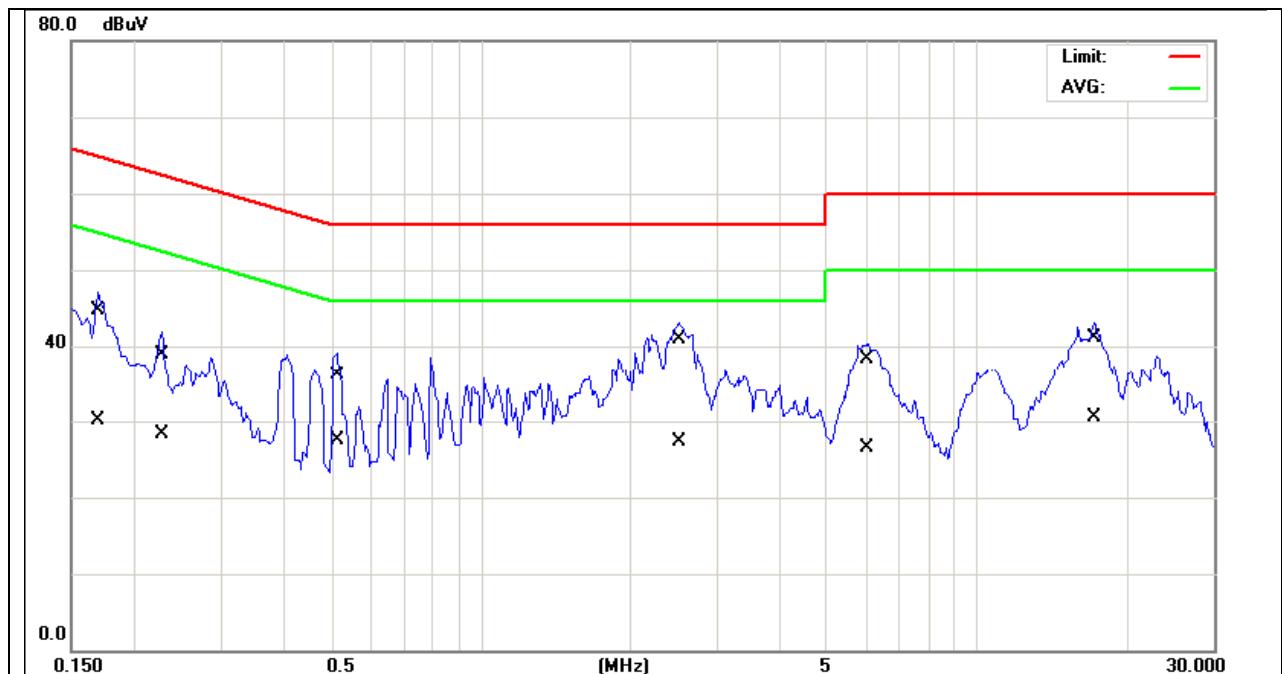


EUT :	Cisco Edge 300			Model Name :	CS-E300-AP-K9			
Temperature :	20 °C			Relative Humidity :	50 %			
Pressure :	1010hPa			Test Power :	AC 120V/60Hz			
Test Mode :	TX Mode (Adapter: EADP-60MB B)							

Freq. (MHz)	Terminal L/N	Reading Level(dBuV)		Correct Factor(dB)	Measurement(dBuV)		Limit(dBuV)		Margin(dB)	
		QP-Mode	AV-Mode		QP-Mode	AV-Mode	QP-Mode	AV-Mode	QP-Mode	AV-Mode
0.169	Line	35.02	20.35	9.70	44.72	30.05	64.99	54.99	-20.27	-24.94
0.228	Line	29.11	18.63	9.71	38.82	28.34	62.52	52.52	-23.70	-24.18
0.513	Line	26.43	17.86	9.73	36.16	27.59	56.00	46.00	-19.84	-18.41
2.521	Line	31.02	17.35	9.96	40.98	27.31	56.00	46.00	-15.02	-18.69
6.024	Line	28.31	16.38	10.06	38.37	26.44	60.00	50.00	-21.63	-23.56
17.199	Line	30.25	19.68	10.86	41.11	30.54	60.00	50.00	-18.89	-19.46

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.2 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz, VBW=10KHz, Swp. Time =0.2 sec./MHz.
- (2) Margin value = Measurement level – Limit value.
Correct factor = Insertion loss + Cable loss.
Measurement level = Correct factor + Reading level.
- (3) Measuring frequency range from 150KHz to 30MHz.



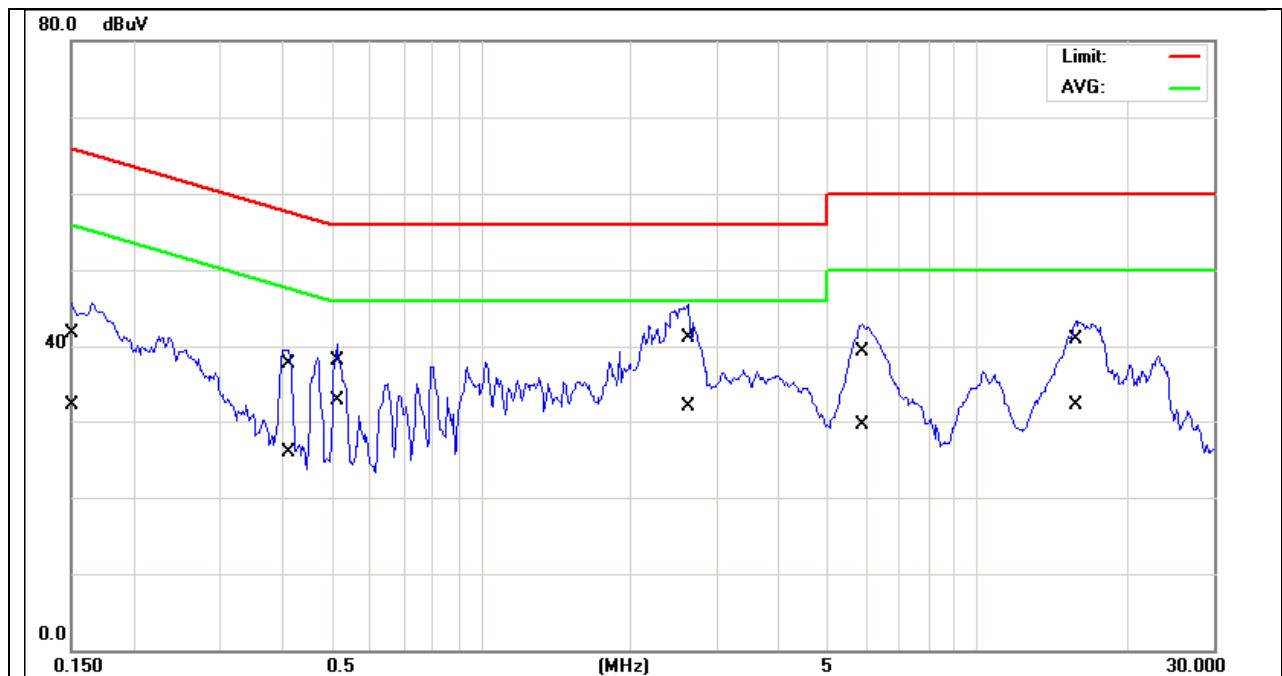


EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9		
Temperature :	20 °C		Relative Humidity :	50 %		
Pressure :	1010hPa		Test Power :	AC 120V/60Hz		
Test Mode :	TX Mode (Adapter: EADP-60MB B)					

Freq. (MHz)	Terminal L/N	Reading Level(dBuV)		Correct Factor(dB)	Measurement(dBuV)		Limit(dBuV)		Margin(dB)	
		QP-Mode	AV-Mode		QP-Mode	AV-Mode	QP-Mode	AV-Mode	QP-Mode	AV-Mode
0.150	Neutral	32.01	22.35	9.69	41.70	32.04	66.00	56.00	-24.30	-23.96
0.412	Neutral	28.02	16.24	9.72	37.74	25.96	57.64	47.64	-19.90	-21.68
0.513	Neutral	28.35	23.02	9.73	38.08	32.75	56.00	46.00	-17.92	-13.25
2.630	Neutral	31.12	22.01	9.96	41.08	31.97	56.00	46.00	-14.92	-14.03
5.914	Neutral	29.35	19.36	10.05	39.40	29.41	60.00	50.00	-20.60	-20.59
15.801	Neutral	30.25	21.35	10.70	40.95	32.05	60.00	50.00	-19.05	-17.95

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.2 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz, VBW=10KHz, Swp. Time =0.2 sec./MHz.
- (2) Margin value = Measurement level – Limit value.
Correct factor = Insertion loss + Cable loss.
Measurement level = Correct factor + Reading level.
- (3) Measuring frequency range from 150KHz to 30MHz.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

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.

Frequencies (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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3m)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

**4.2.2 MEASUREMENT INSTRUMENTS LIST AND SETTING**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.26.2012
2	Bi-log Antenna	Schwarbeck	VULB9160	9160-3232	May.25.2012
3	Horn Antenna	ETS	3115	00075789	May.11.2012
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170340	Dec.15.2011
5	Amplifier	HP	8447D	2944A09673	May.25.2012
6	Amplifier	Agilent	8449B	3008A02274	May.25.2012
7	Amplifier	EMC	EMC2654045	980039	Aug.11.2012
8	Test Receiver	R&S	ESCI	100895	May.25.2012
9	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011
10	Test Cable	N/A	C-01_CB03	N/A	Jul.04.2012
11	Test Cable	HUBER+SUHNER	SUCOFLEX_8 m	313794/4	Apr.11.2012
12	Controller	CT	SC100	N/A	N/A

Note

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in DG-CB03 (Below 1GHz/Above 1GHz)
3. The Horn antenna and HP preamplifier (model: 8449B) /EMC preamplifier (model: EMC2654045) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is 4428B-1 (DG-CB03)
5. The FCC Site Registration No. is 319330 (DG-CB03)

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz 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



4.2.3 TEST PROCEDURE

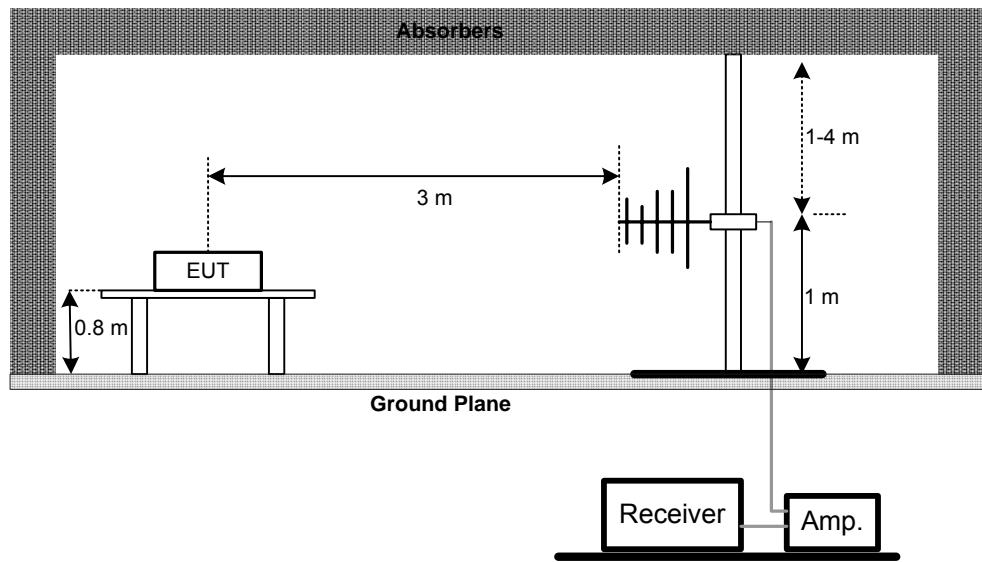
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

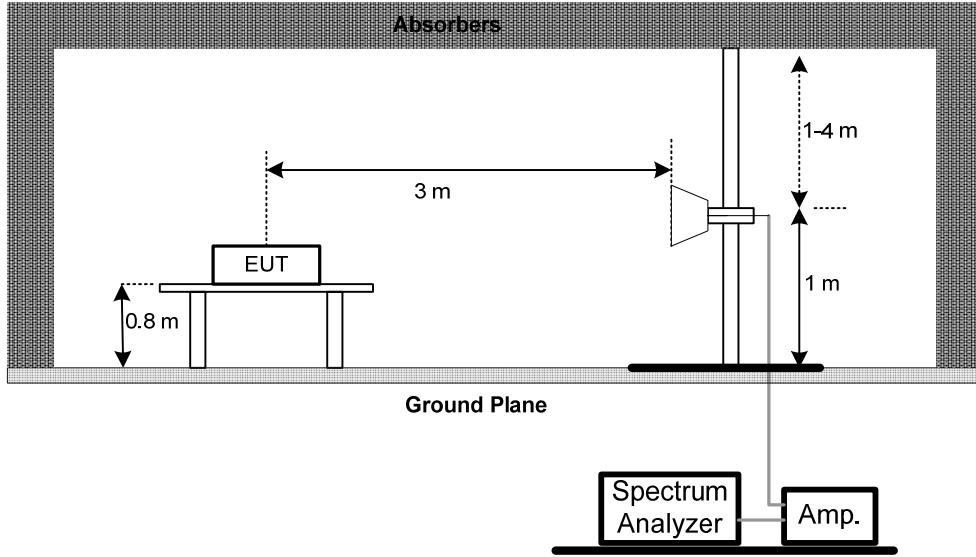
No deviation

4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

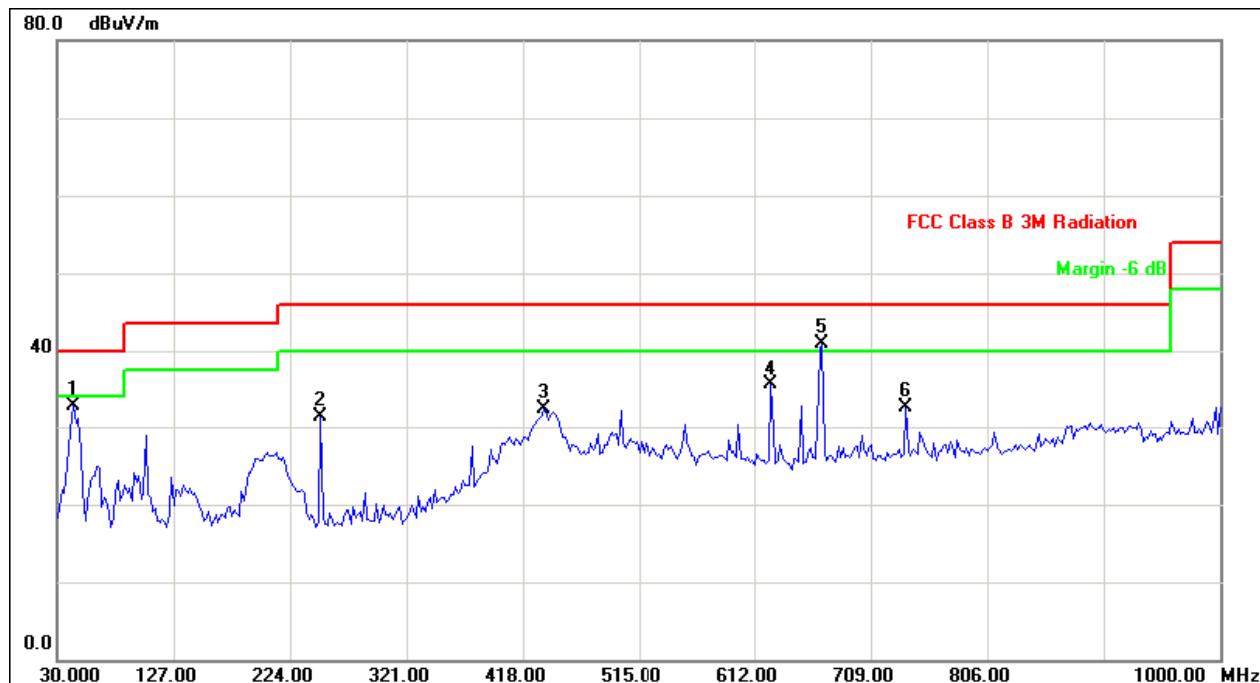
**4.2.7 TEST RESULTS (BETWEEN 30 – 1000 MHZ)**

EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 11N 20M MODE CHANNEL 01 (Adapter: PA-1600-2A-LF)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
43.58	V	49.57	-16.88	32.69	40.00	- 7.31	
249.22	V	45.84	-14.62	31.22	46.00	- 14.78	
435.46	V	40.73	-8.38	32.35	46.00	- 13.65	
625.58	V	39.31	-3.80	35.51	46.00	- 10.49	
668.26	V	44.23	-3.28	40.95	46.00	- 5.05	
738.10	V	35.22	-2.71	32.51	46.00	- 13.49	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) Measuring frequency range from 30MHz to 1000MHz .
- (3) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m). Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB). Margin value = Emission level – Limit value.
- (4) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (5) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



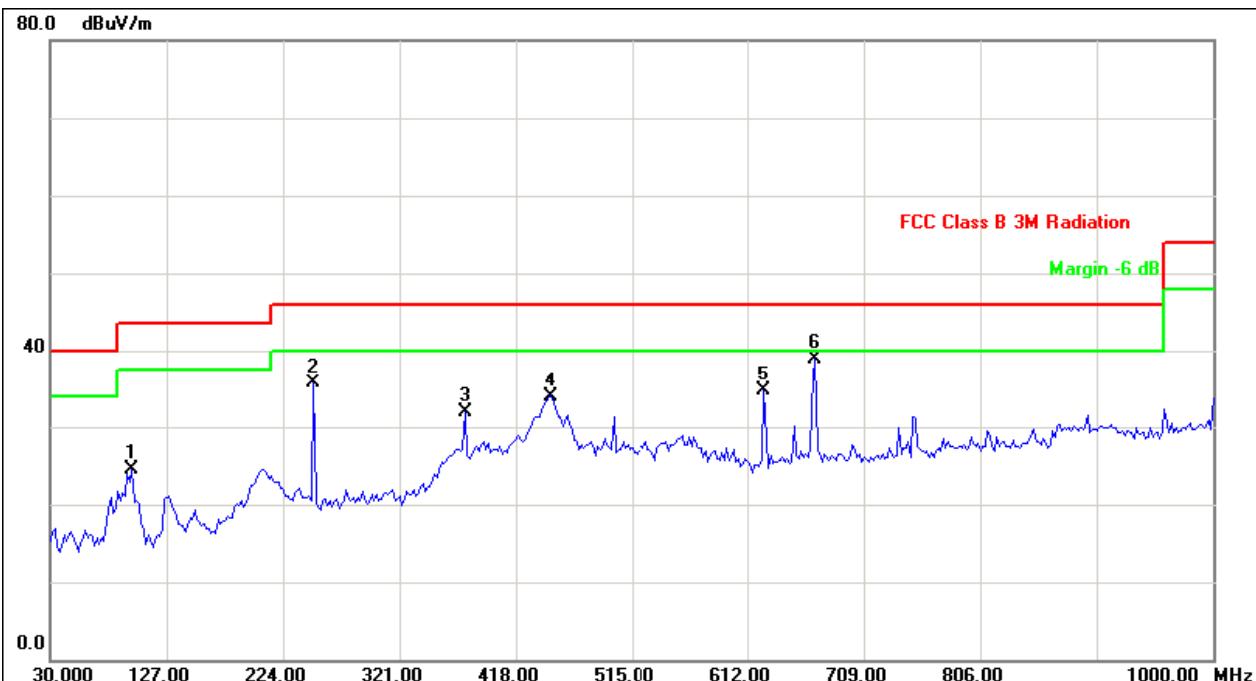


EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 11N 20M MODE CHANNEL 01 (Adapter: PA-1600-2A-LF)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	H	42.87	-18.45	24.42	43.50	- 19.08	
249.22	H	50.26	-14.62	35.64	46.00	- 10.36	
375.32	H	41.86	-9.92	31.94	46.00	- 14.06	
447.10	H	42.17	-8.17	34.00	46.00	- 12.00	
625.58	H	38.50	-3.80	34.70	46.00	- 11.30	
668.26	H	42.16	-3.28	38.88	46.00	- 7.12	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) Measuring frequency range from 30MHz to 1000MHz .
- (3) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.
- (4) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (5) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



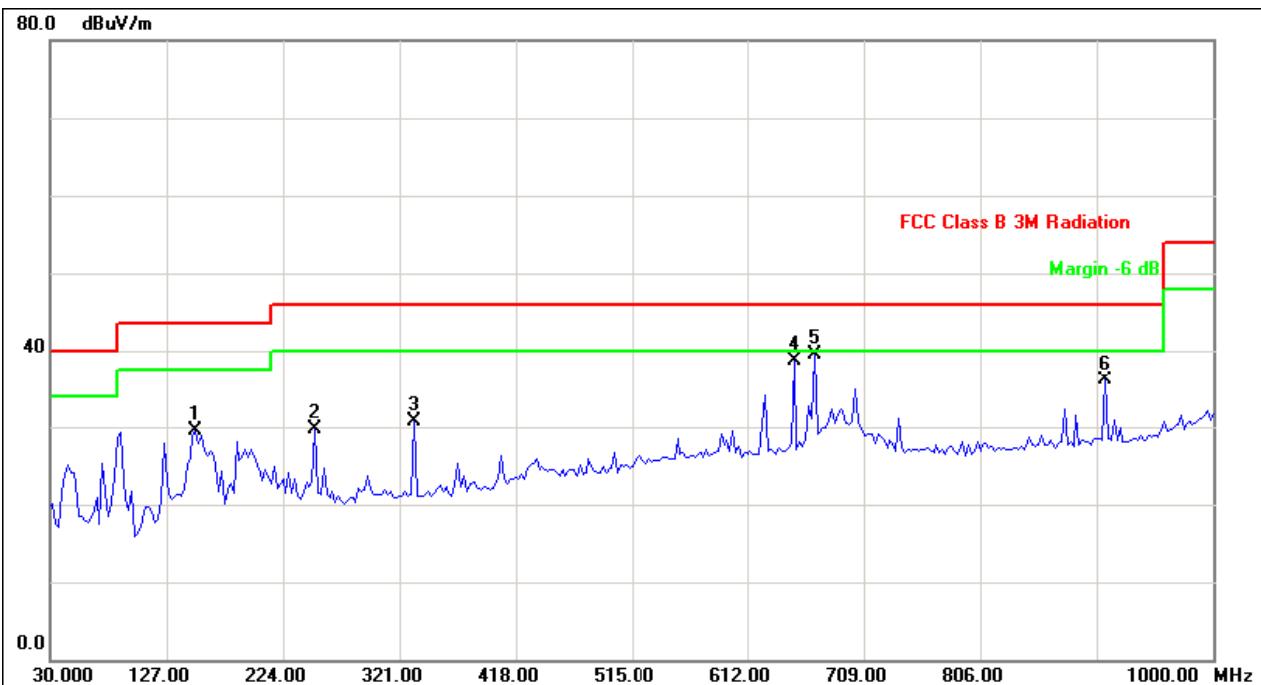


EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 11N 20M MODE CHANNEL 01 (Adapter: EADP-60MB B)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
151.25	V	44.13	-14.63	29.50	43.50	- 14.00	
250.68	V	42.80	-13.12	29.68	46.00	- 16.32	
333.13	V	41.28	-10.62	30.66	46.00	- 15.34	
650.80	V	43.95	-5.34	38.61	46.00	- 7.39	
667.78	V	44.62	-5.21	39.41	46.00	- 6.59	
910.28	V	39.59	-3.45	36.14	46.00	- 9.86	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) Measuring frequency range from 30MHz to 1000MHz.
- (3) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m). Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB). Margin value = Emission level – Limit value.
- (4) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (5) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



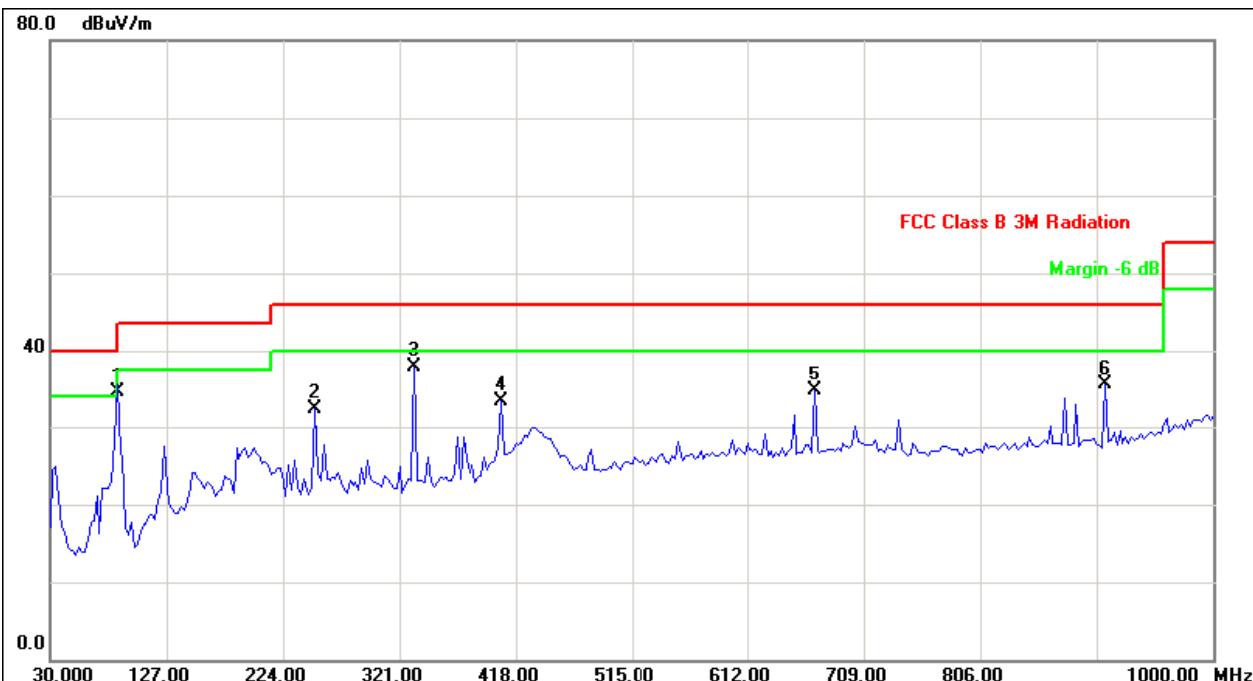


EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 11N 20M MODE CHANNEL 01 (Adapter: EADP-60MB B)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
85.78	H	53.41	-18.84	34.57	40.00	- 5.43	
250.68	H	45.52	-13.12	32.40	46.00	- 13.60	
333.13	H	48.53	-10.62	37.91	46.00	- 8.09	
405.88	H	42.96	-9.62	33.34	46.00	- 12.66	
667.78	H	39.89	-5.21	34.68	46.00	- 11.32	
910.28	H	38.94	-3.45	35.49	46.00	- 10.51	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) Measuring frequency range from 30MHz to 1000MHz .
- (3) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.
- (4) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (5) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .





4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Cisco Edge 300		Model Name :		CS-E300-AP-K9		
Temperature :	25 °C		Relative Humidity :			58 %	
Pressure :	1010 hPa		Test Voltage :			AC 120V/60Hz	
Test Mode :	TX B MODE 2412MHz						

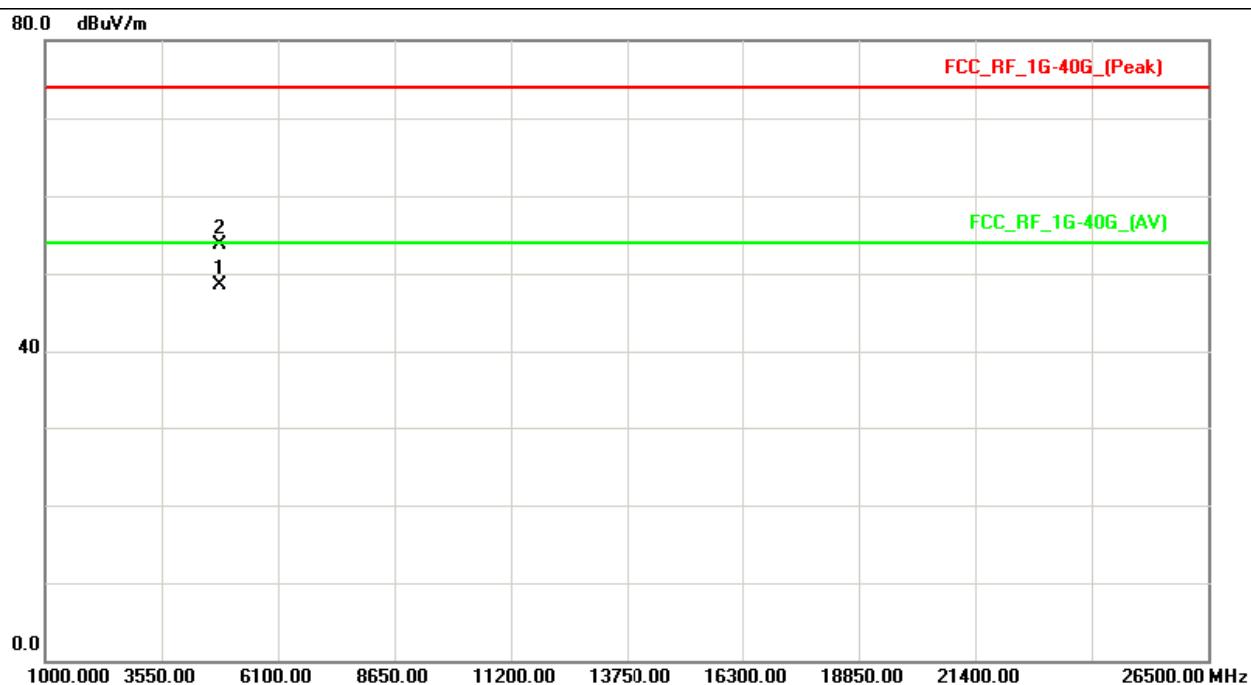
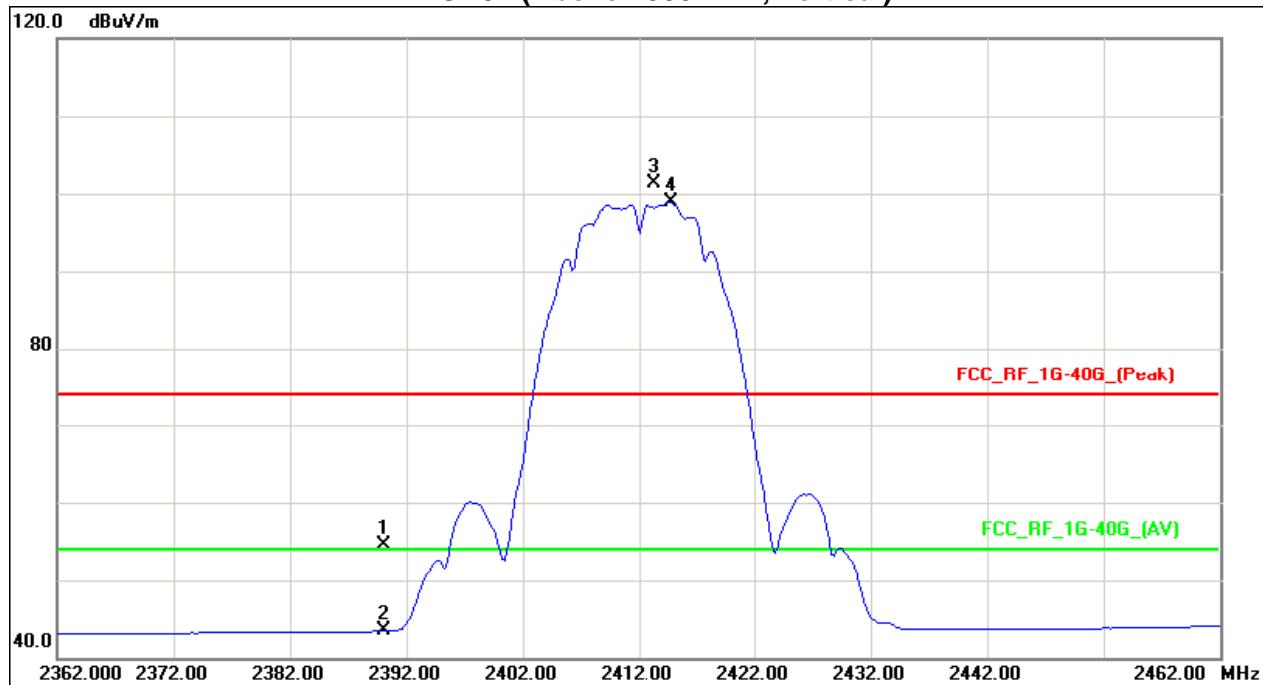
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	22.51	11.54	31.91	54.42	43.45	74.00	54.00	X/E
2413.40	V	69.48	67.05	31.88	101.36	98.93			X/F
4823.95	V	48.37	43.20	5.29	53.66	48.49	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH01 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

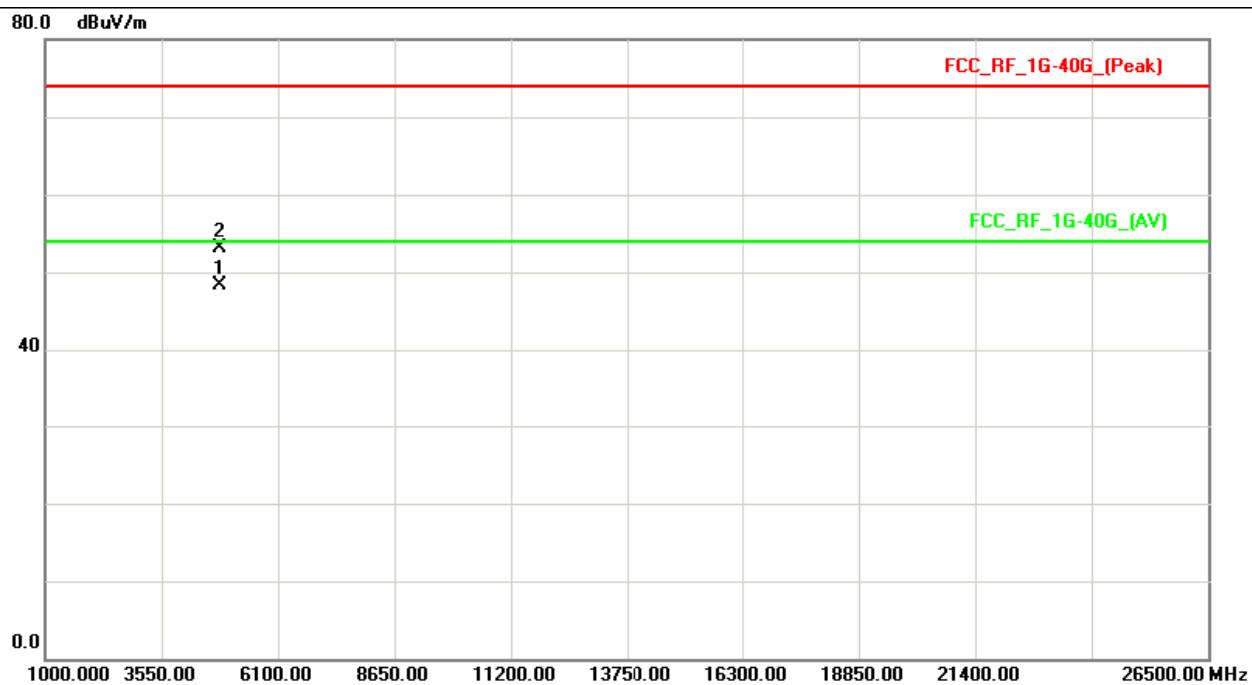
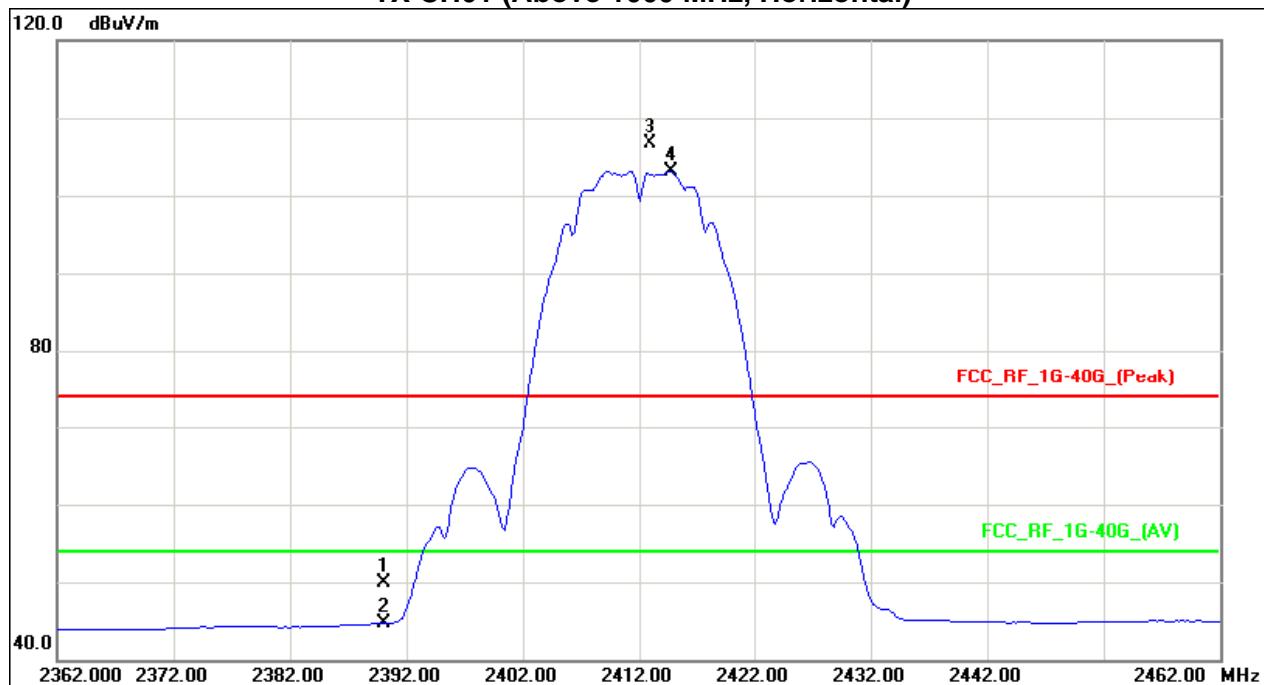
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	18.08	12.80	31.91	49.99	44.71	74.00	54.00	X/E
2413.00	H	74.91	71.28	31.88	106.79	103.16			X/F
4823.98	H	47.73	43.03	5.29	53.02	48.32	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
 - "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz.
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH01 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

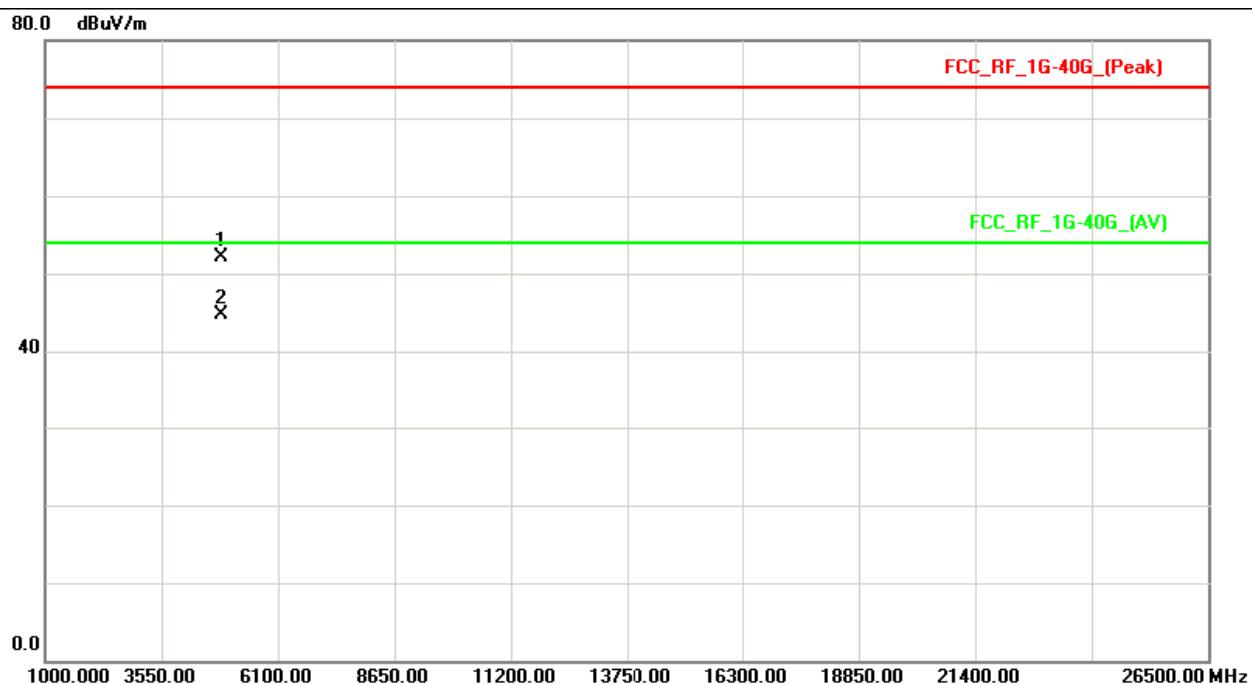
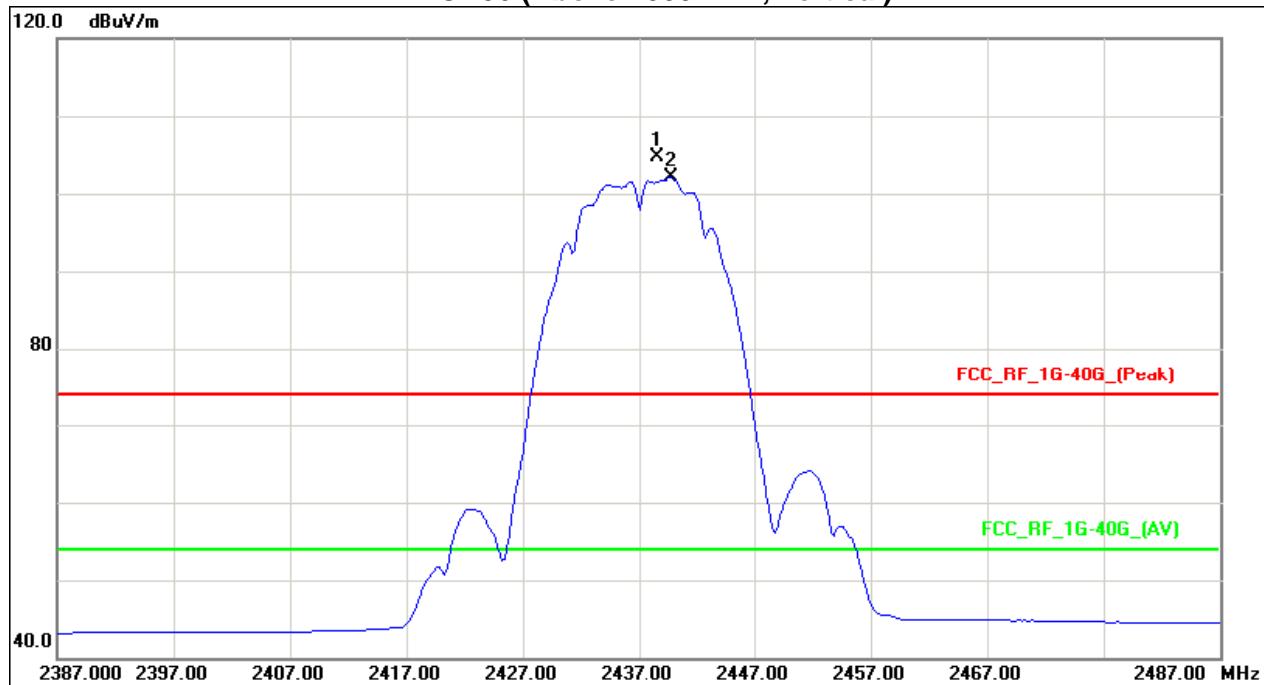
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2438.60	V	72.93	70.25	31.85	104.78	102.10			X/F
4873.94	V	46.68	39.25	5.47	52.15	44.72	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE 2437MHz				

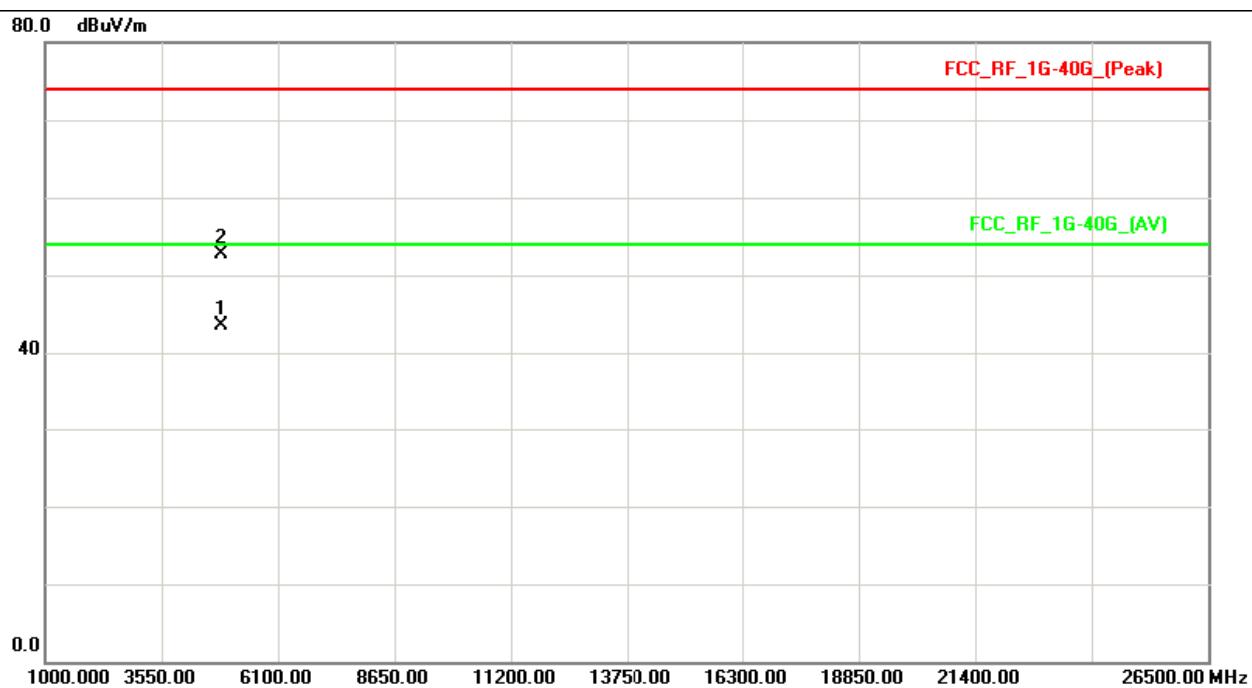
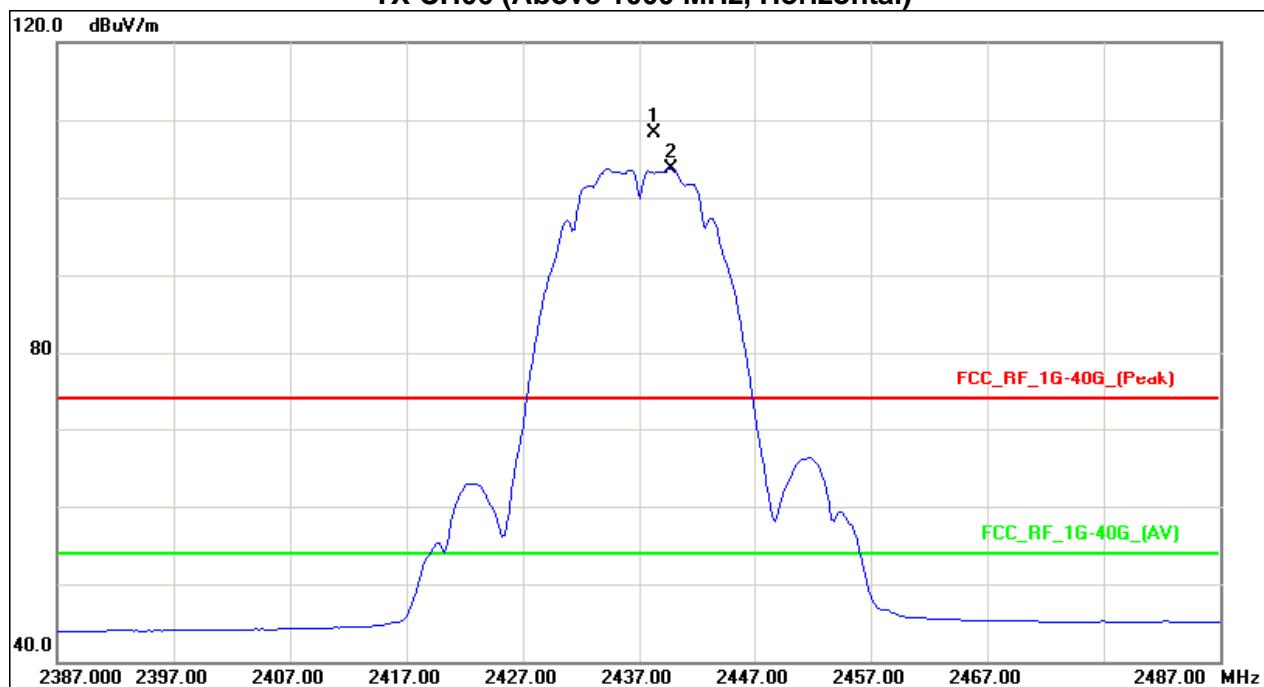
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2438.40	H	76.51	71.93	31.85	108.36	103.78			X/F
4873.97	H	47.15	37.97	5.47	52.62	43.44	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE 2462MHz				

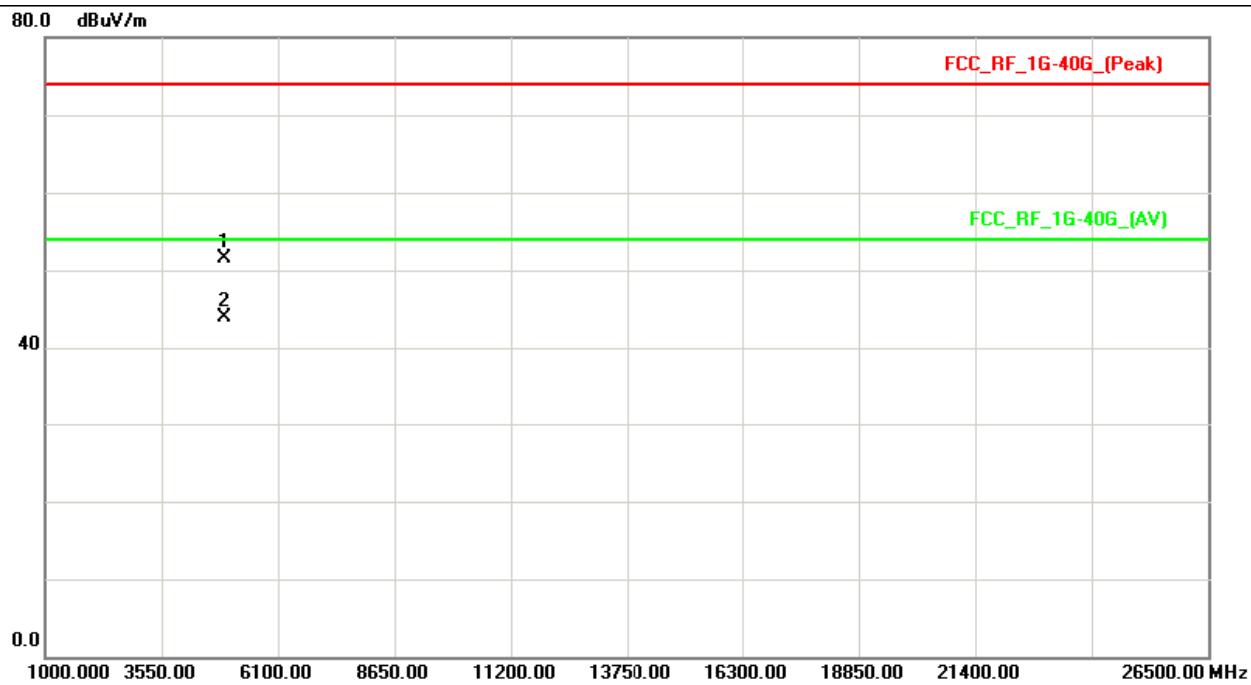
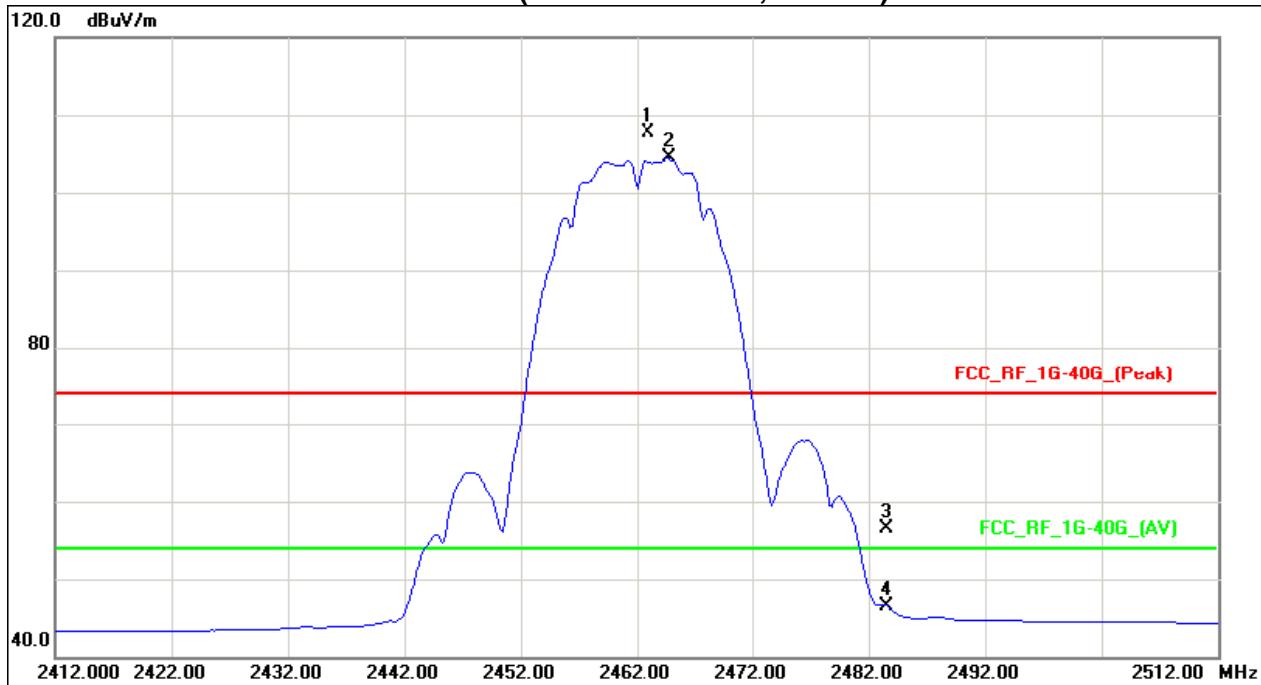
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2463.00	V	75.95	72.66	31.82	107.77	104.48			X/F
2483.50	V	24.71	14.70	31.80	56.51	46.50	74.00	54.00	X/E
4923.83	V	45.77	38.33	5.65	51.42	43.98	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH11 (Above 1000 MHz, Vertical)



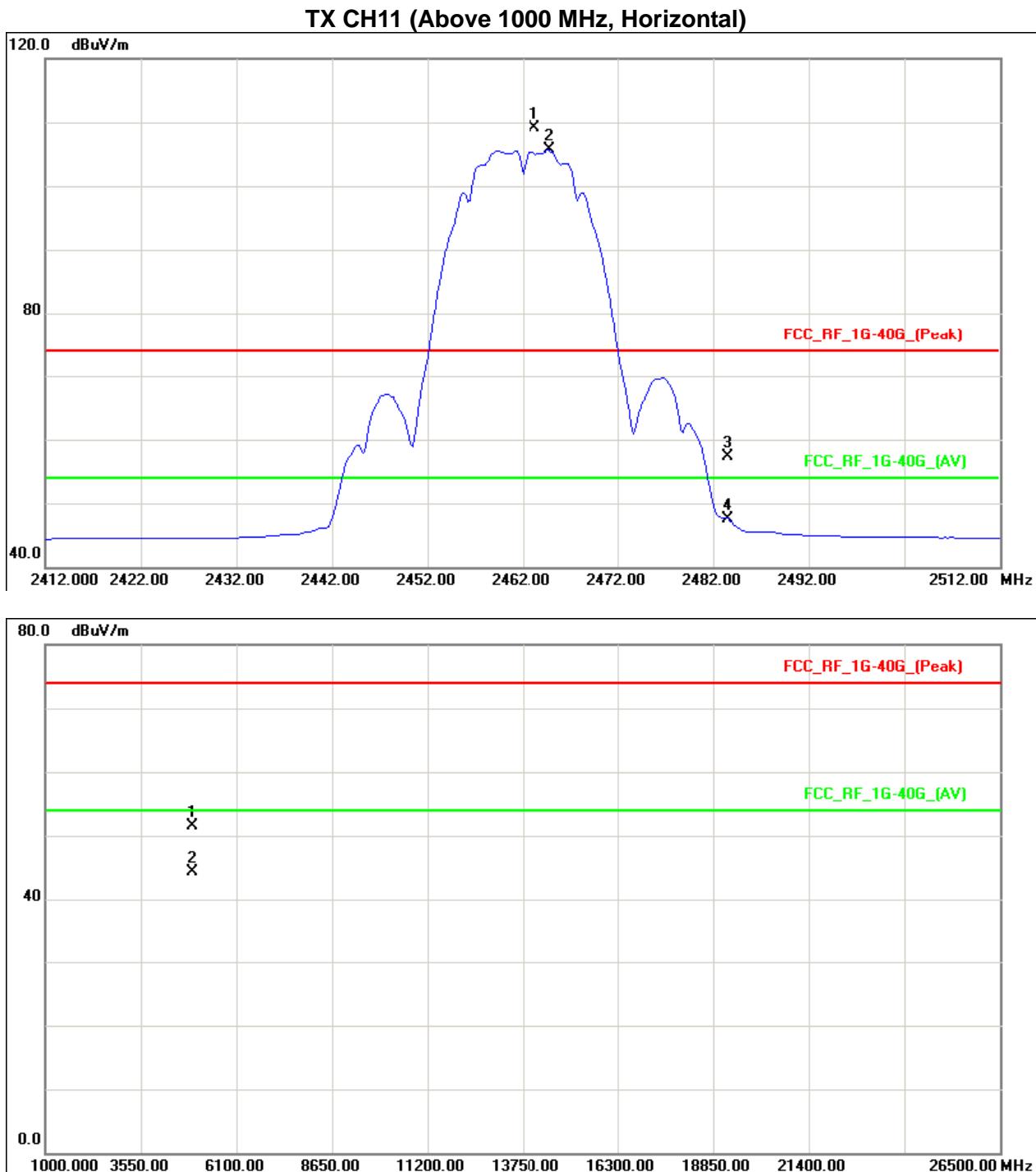


EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE 2462MHz				

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2463.20	H	77.37	73.82	31.82	109.19	105.64			X/F
2483.50	H	25.53	15.70	31.80	57.33	47.50	74.00	54.00	X/E
4923.95	H	45.92	38.62	5.65	51.56	44.27	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE 2412MHz				

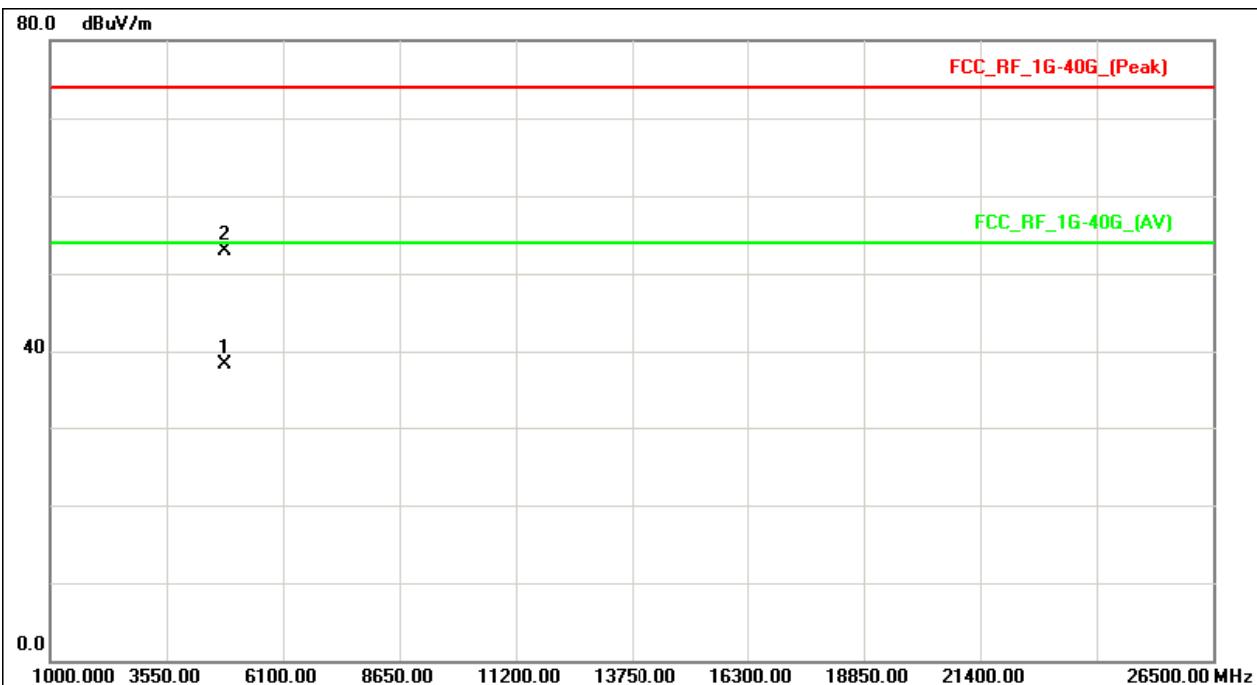
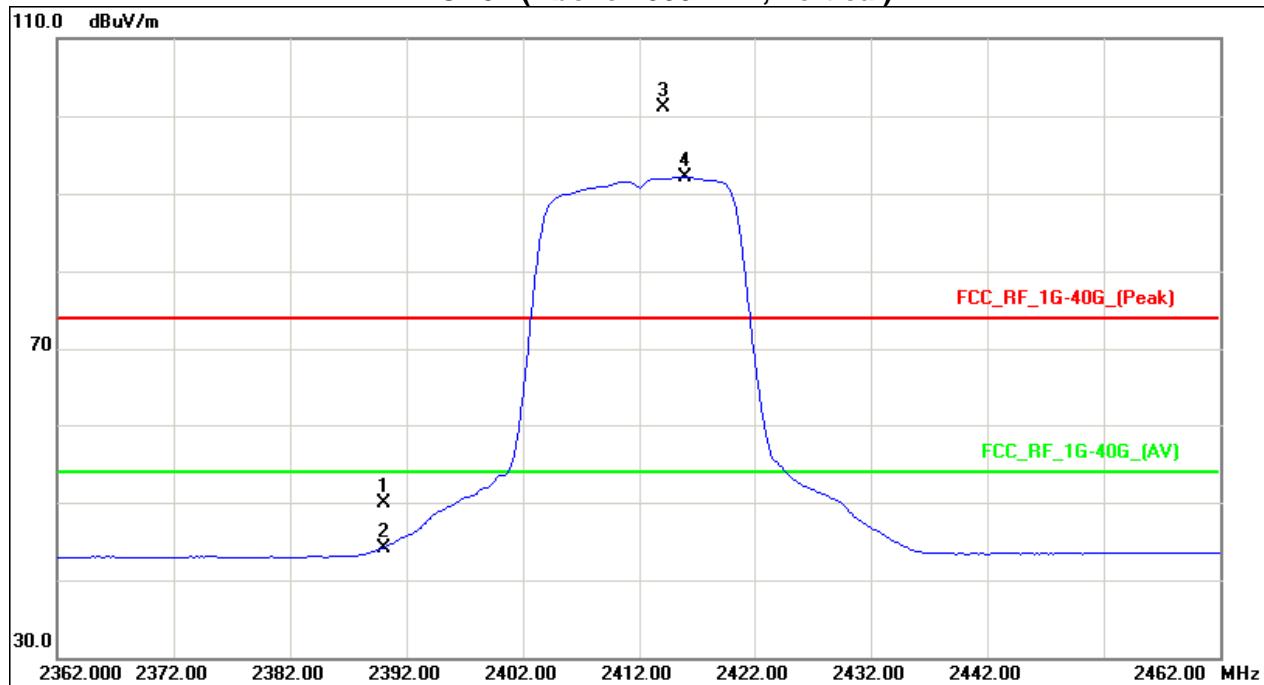
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	18.02	12.25	31.91	49.93	44.16	74.00	54.00	X/E
2414.20	V	69.19	60.20	31.88	101.07	92.08			X/F
4824.04	V	47.55	32.98	5.29	52.84	38.27	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH01 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE 2412MHz				

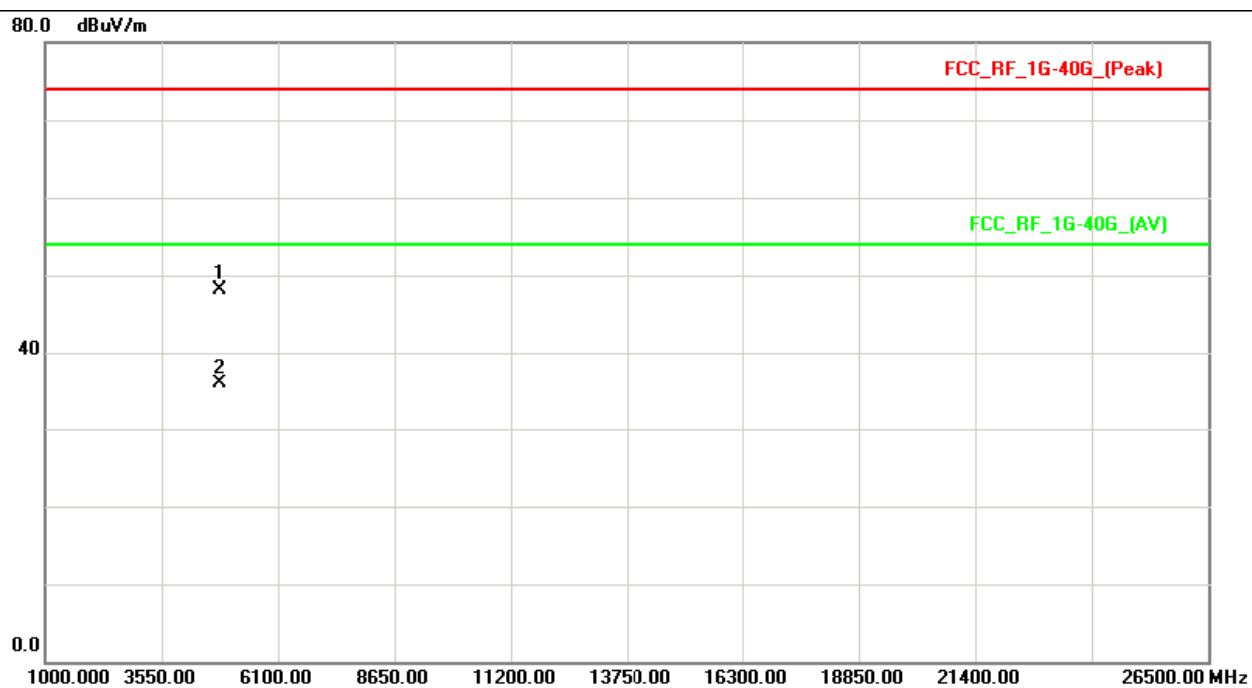
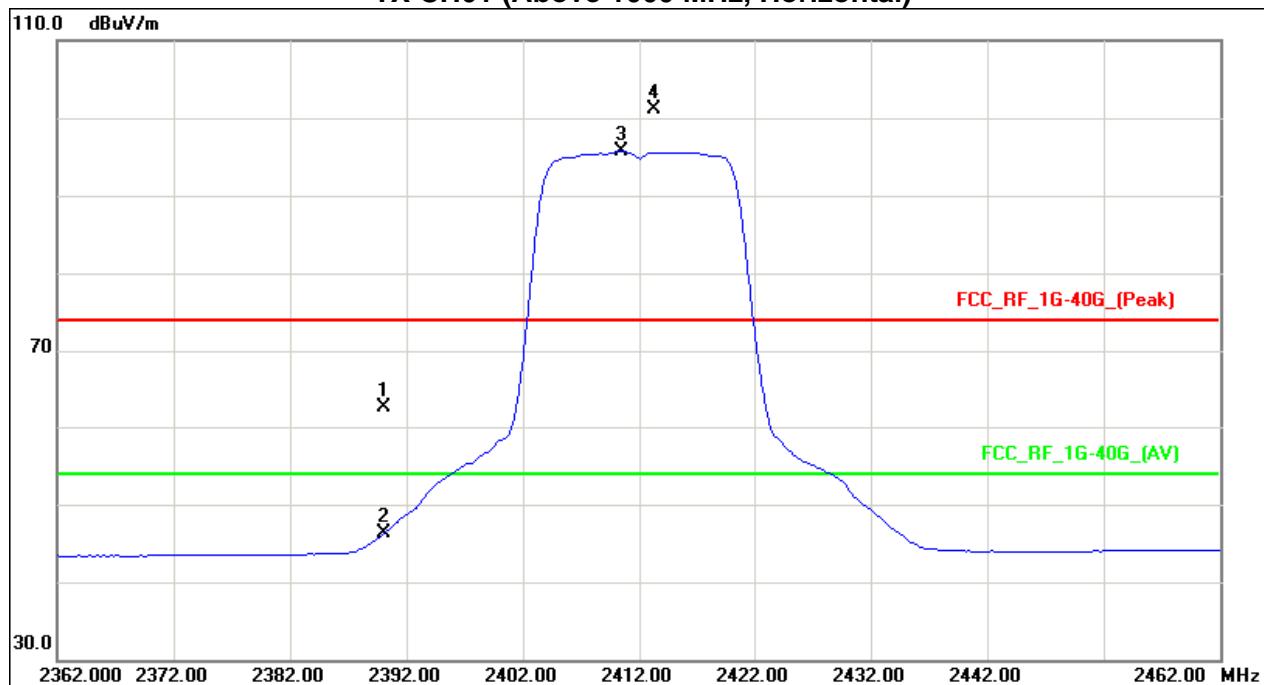
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	30.53	14.32	31.91	62.44	46.23	74.00	54.00	X/E
2410.40	H	69.31	63.76	31.89	101.19	95.65			X/F
4823.96	H	42.87	30.59	5.29	48.16	35.88	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH01 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE 2437MHz				

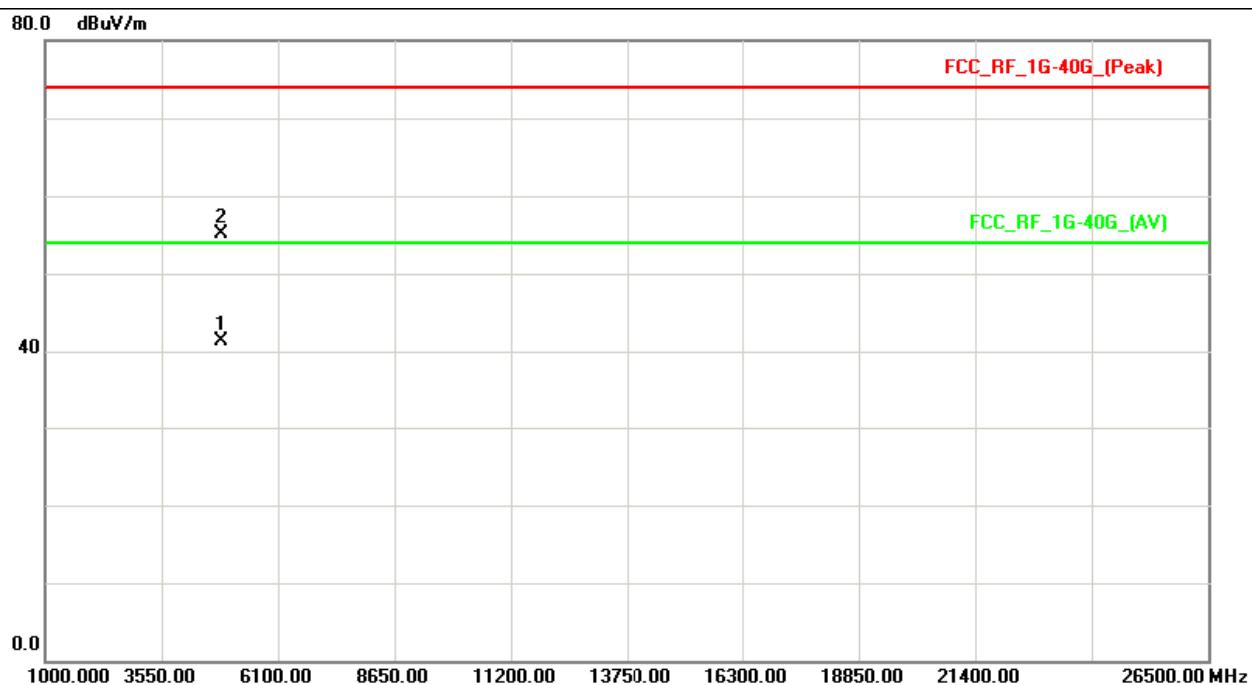
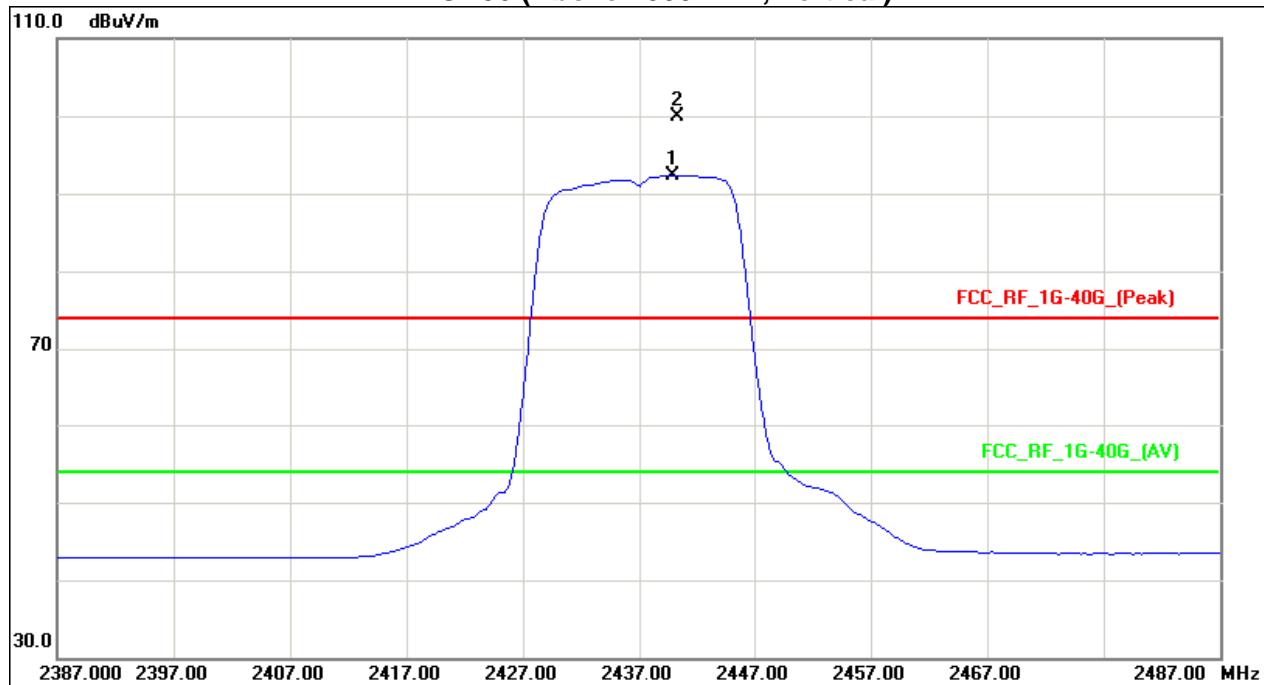
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2440.00	V	68.01	60.53	31.85	99.86	92.38			X/F
4874.16	V	49.69	35.88	5.47	55.16	41.35	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE 2437MHz				

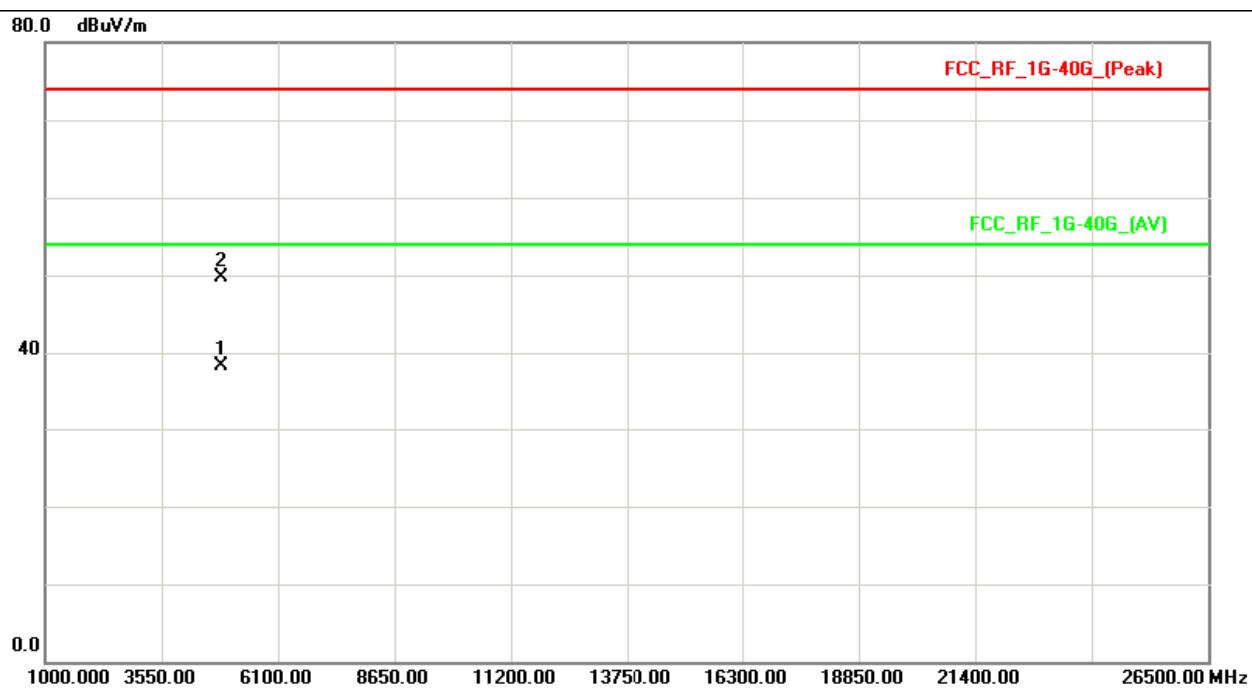
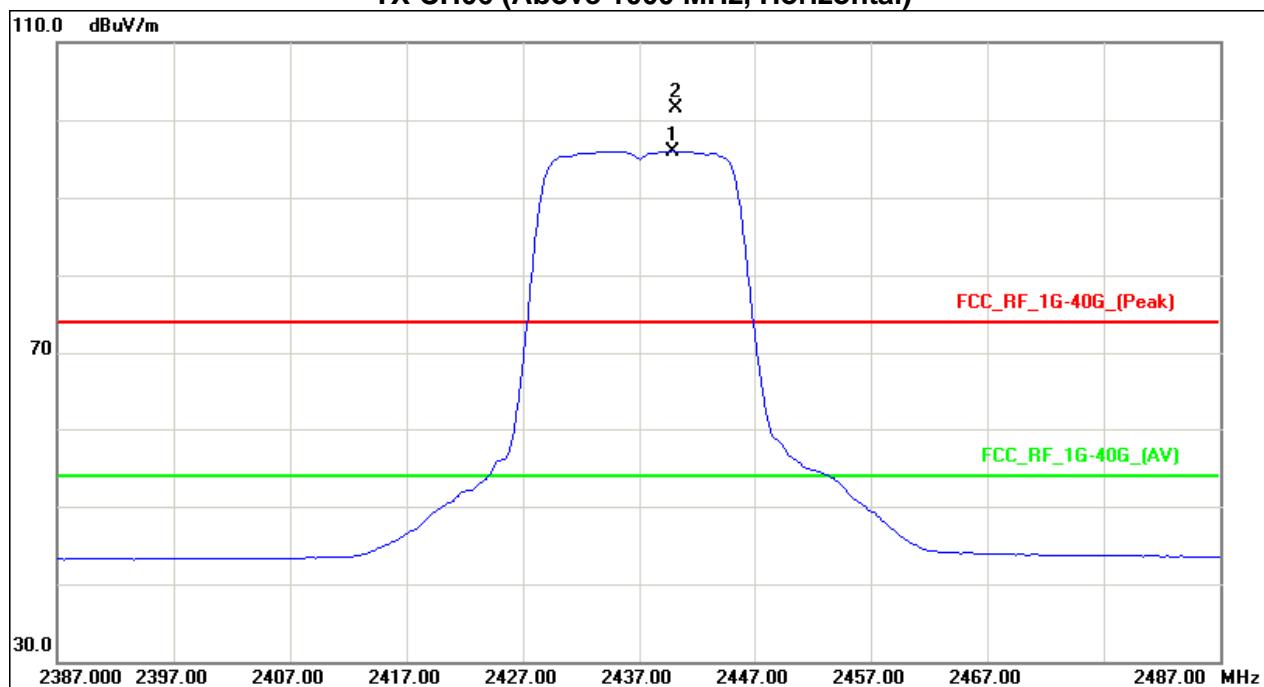
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2440.00	H	69.73	64.15	31.85	101.58	96.00			X/F
4874.00	H	44.24	32.85	5.47	49.71	38.32	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE 2462MHz				

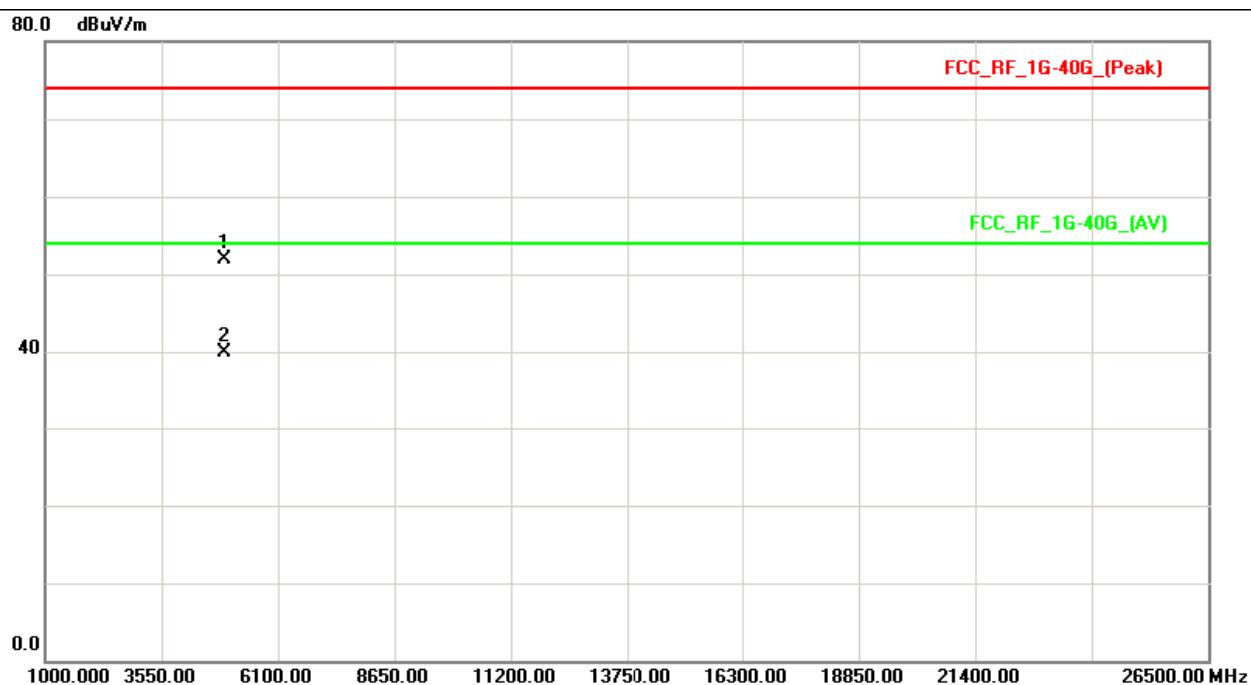
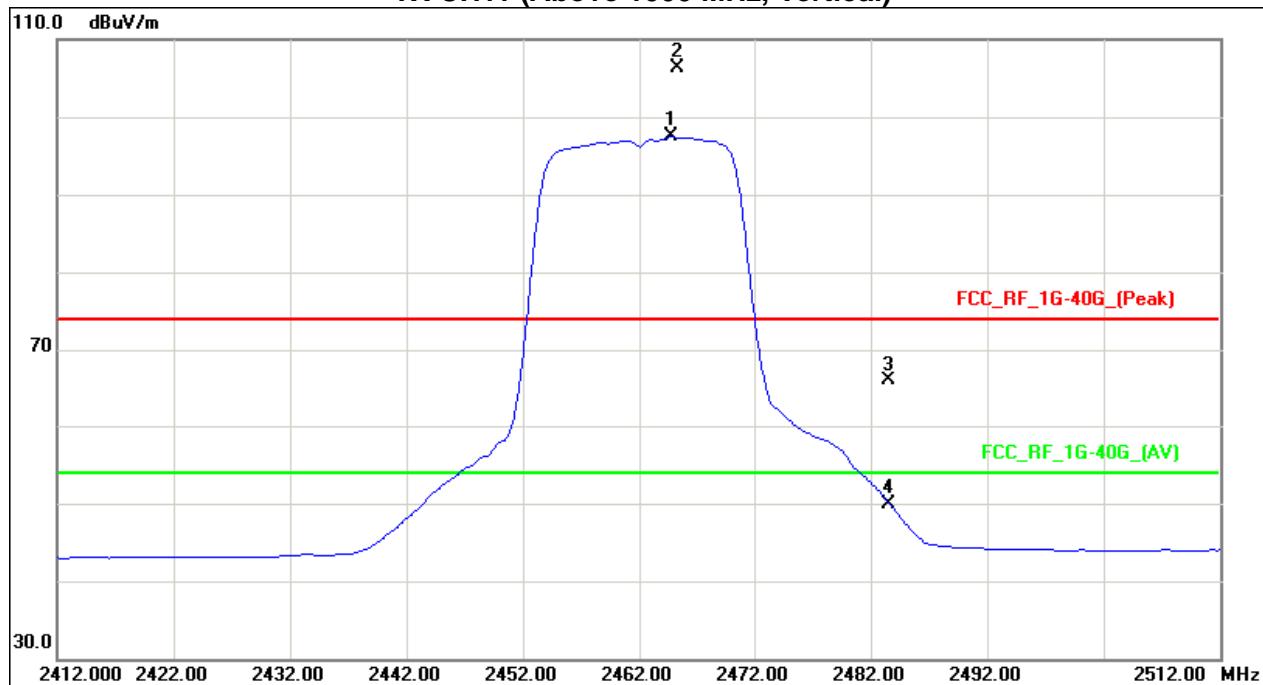
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2465.40	V	74.54	65.60	31.82	106.36	97.42			X/F
2483.50	V	34.04	18.17	31.80	65.84	49.97	74.00	54.00	X/E
4923.32	V	46.23	34.21	5.65	51.88	39.86	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH11 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE 2462MHz				

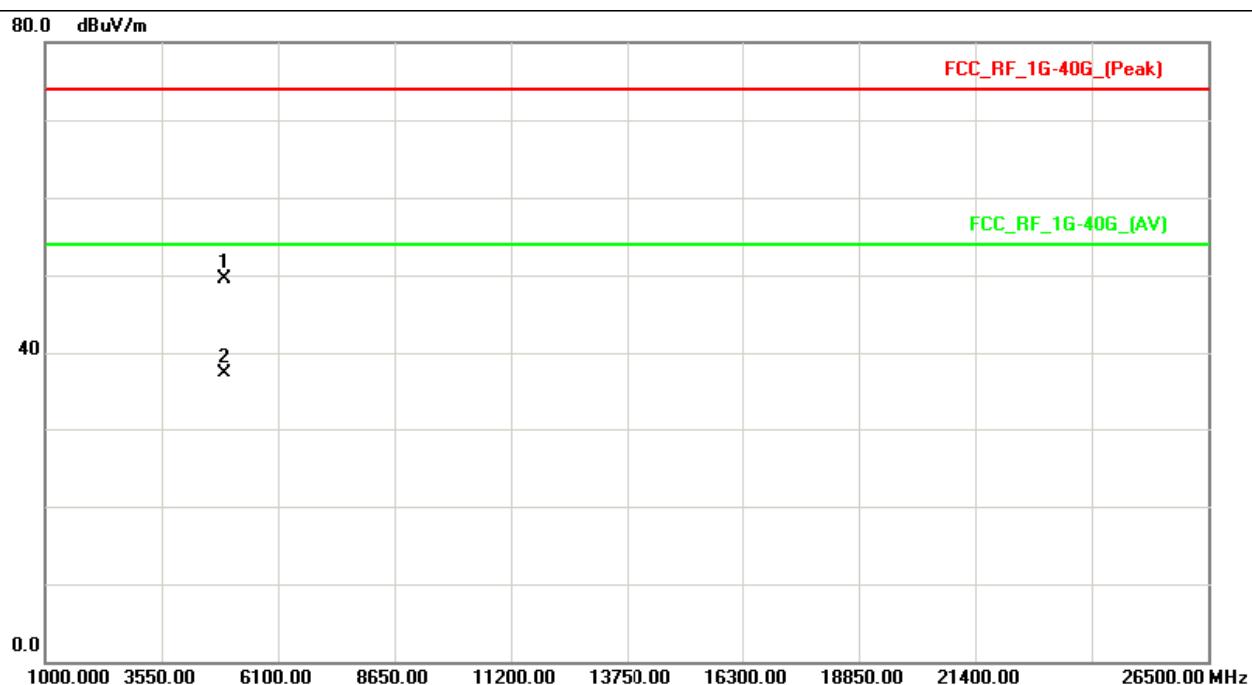
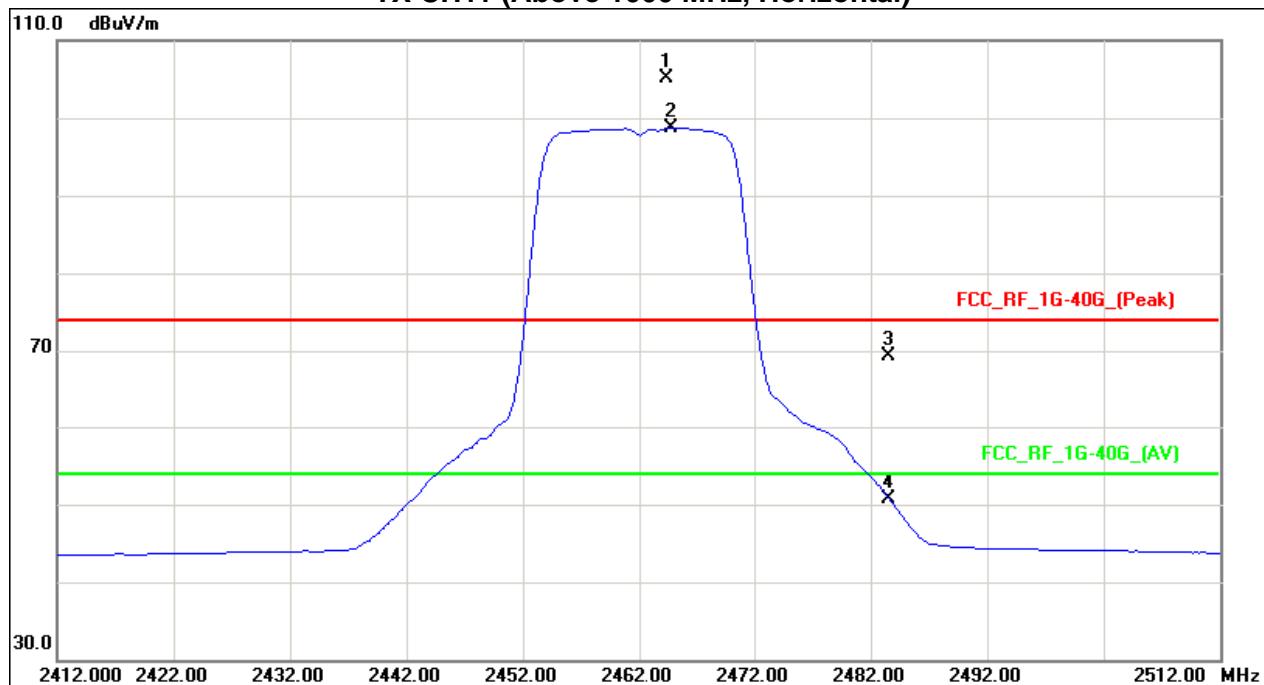
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.40	H	73.24	66.98	31.82	105.06	98.80			X/F
2483.50	H	37.41	18.84	31.80	69.21	50.64	74.00	54.00	X/E
4925.01	H	43.91	31.68	5.66	49.57	37.34	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
 - "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH11 (Above 1000 MHz, Horizontal)



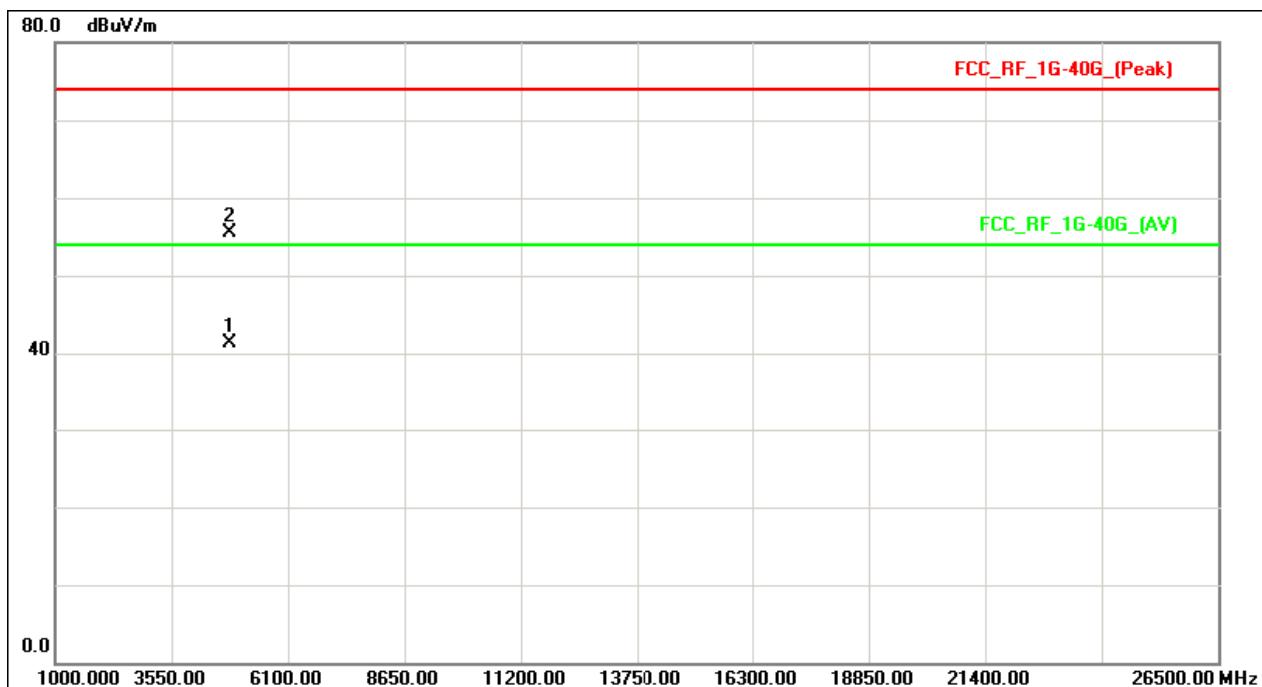
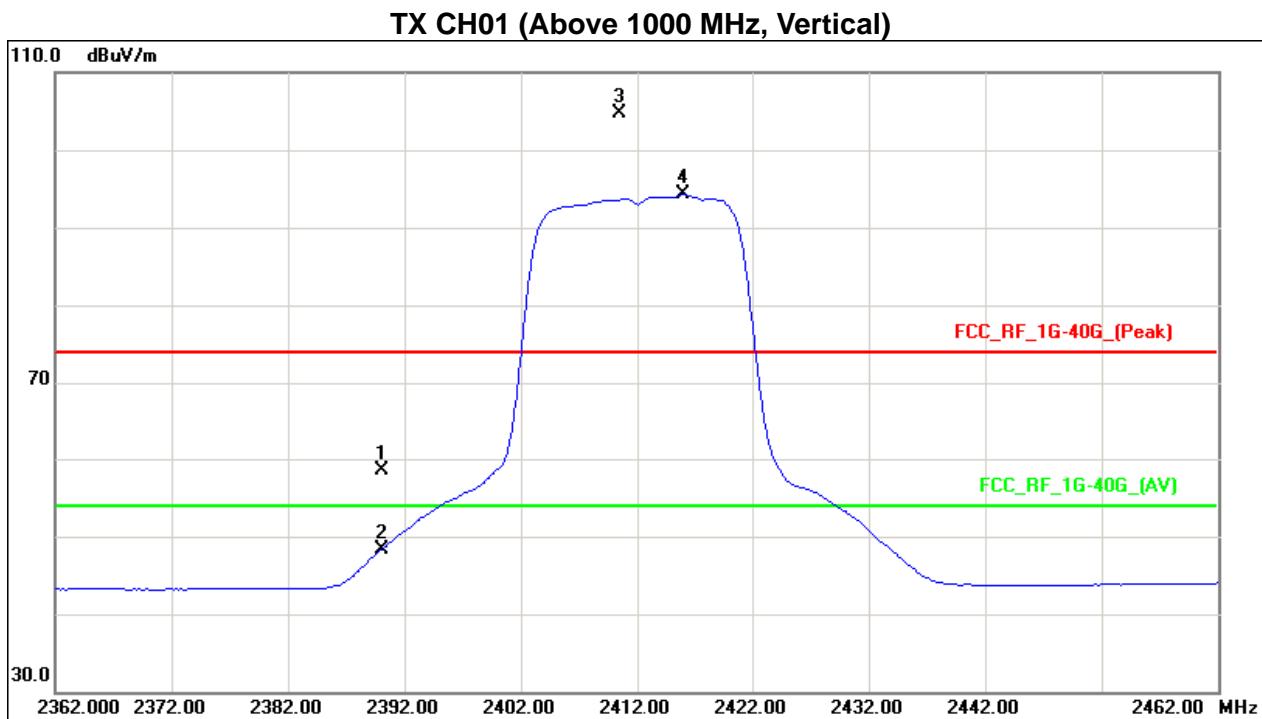


EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE 2412MHz				

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	26.55	16.40	31.91	58.46	48.31	74.00	54.00	X/E
2410.40	V	72.83	62.33	31.89	104.72	94.21			X/F
4823.53	V	50.15	35.96	5.29	55.44	41.25	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE 2412MHz				

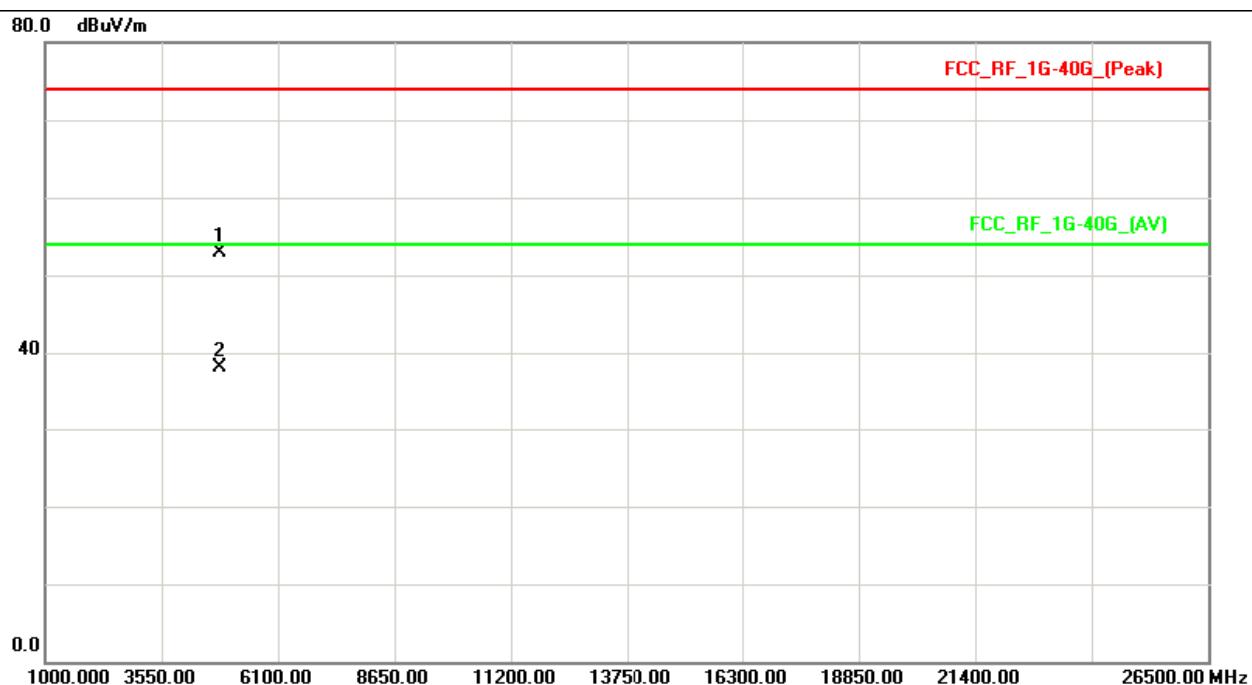
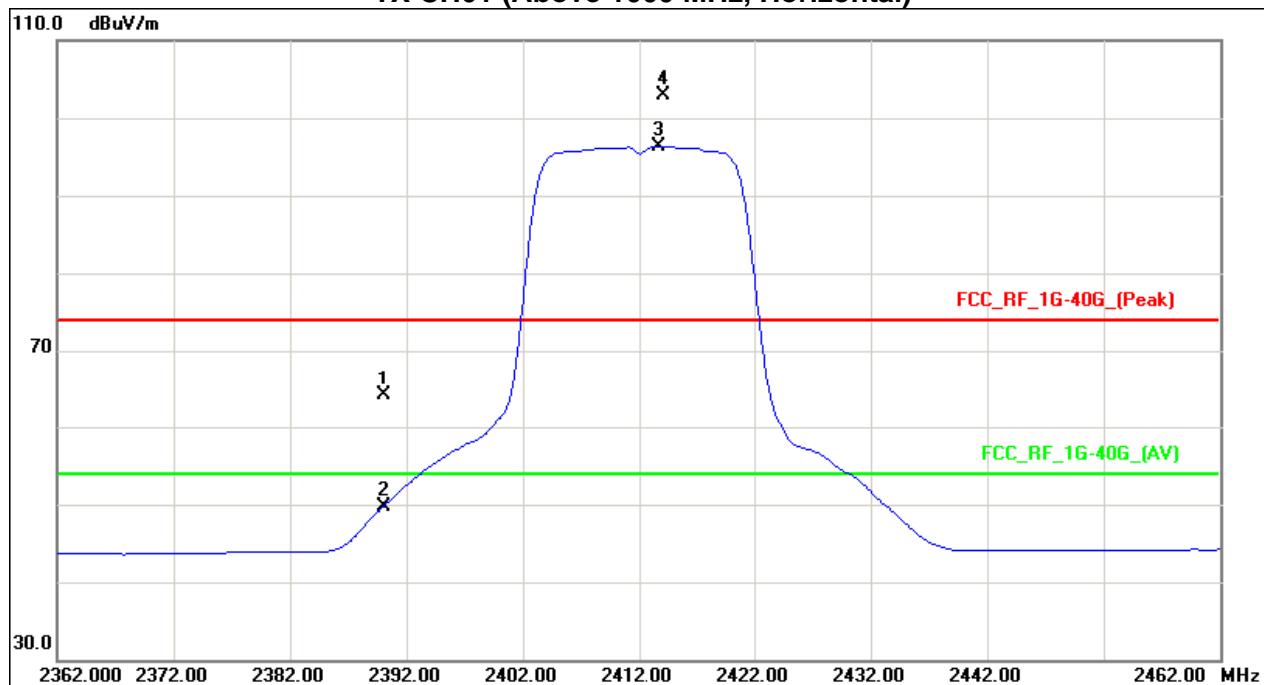
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	32.20	17.87	31.91	64.11	49.78	74.00	54.00	X/E
2413.80	H	70.94	64.45	31.88	102.82	96.33			X/F
4824.48	H	47.61	23.84	5.29	52.90	38.13	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH01 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

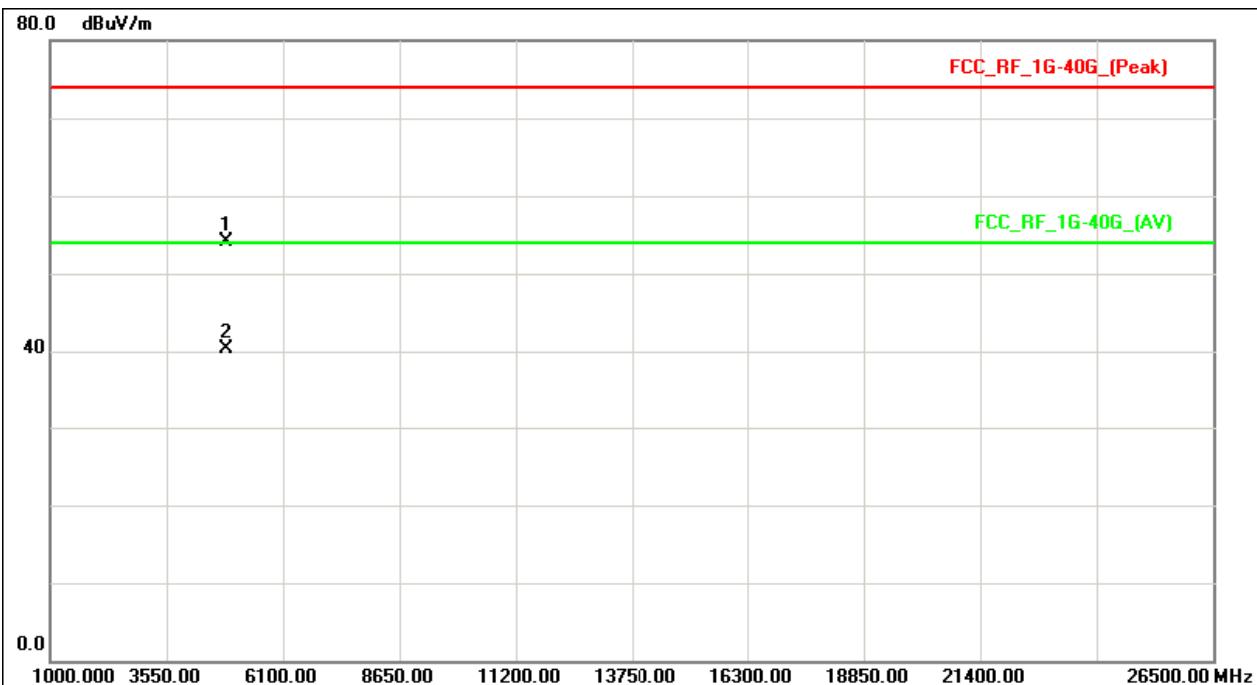
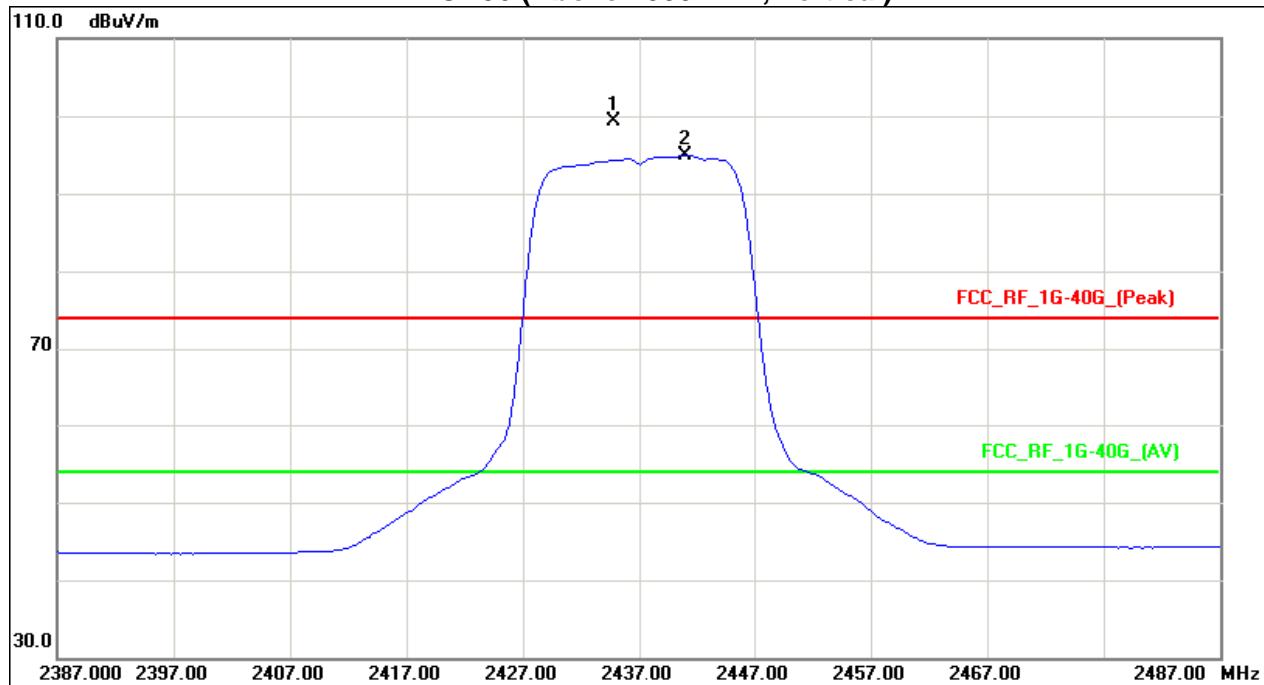
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.80	V	67.44	63.11	31.86	99.30	94.96			X/F
4874.18	V	48.60	34.92	5.47	54.07	40.39	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE 2437MHz				

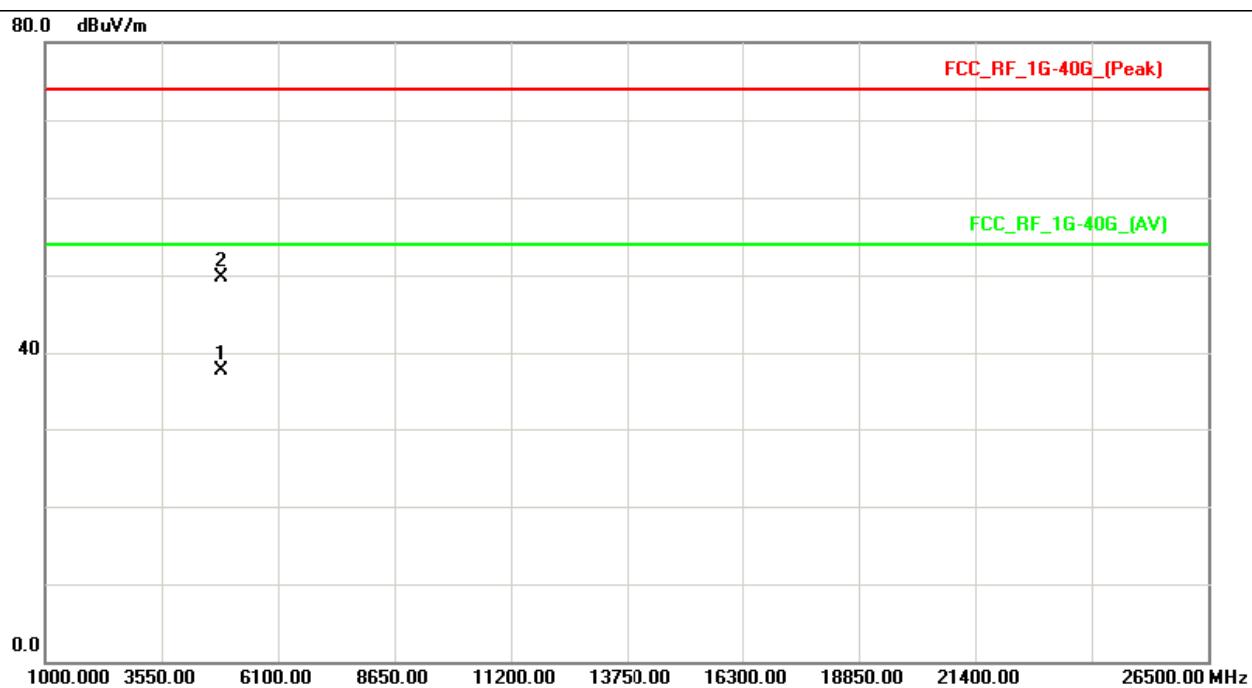
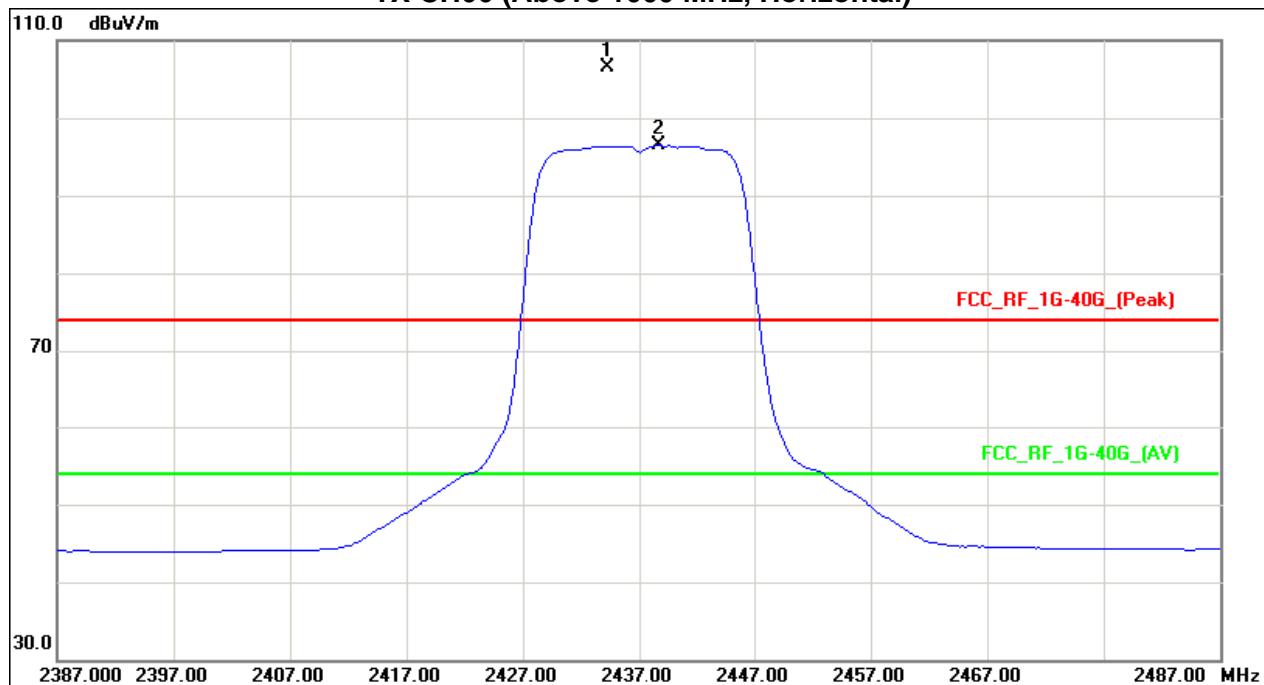
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.20	H	74.69	65.58	31.86	106.55	96.43			X/F
4874.18	H	44.20	32.14	5.47	49.67	37.61	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE 2462MHz				

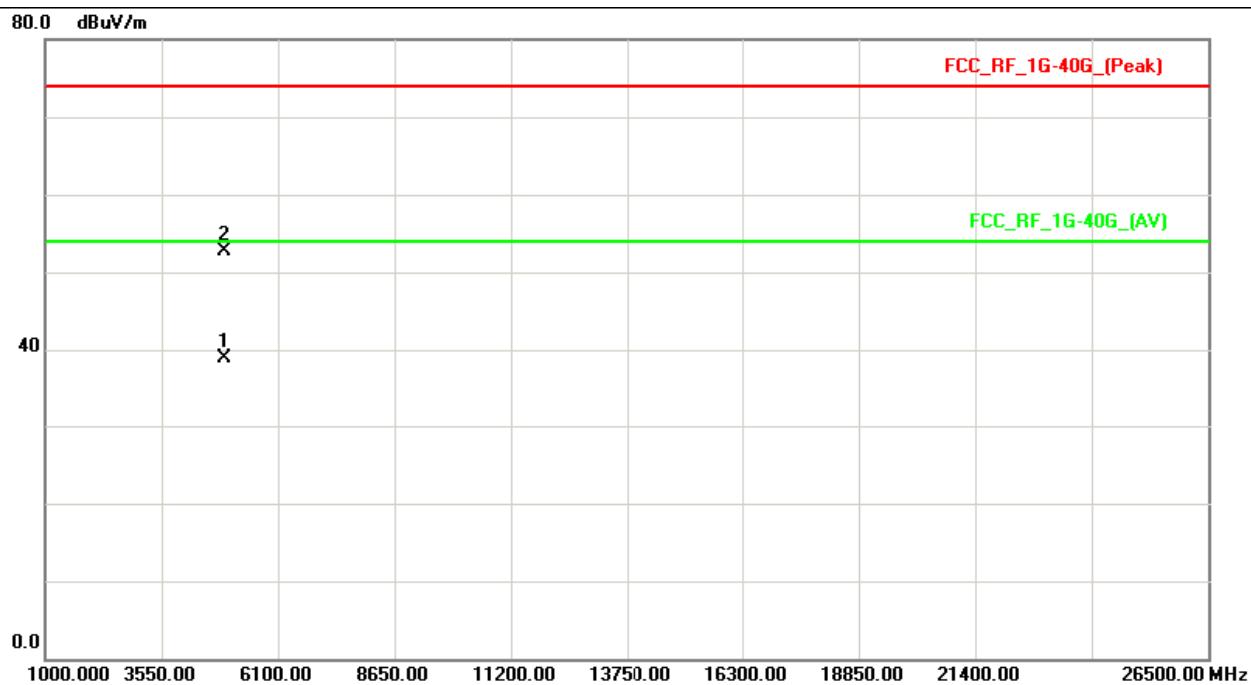
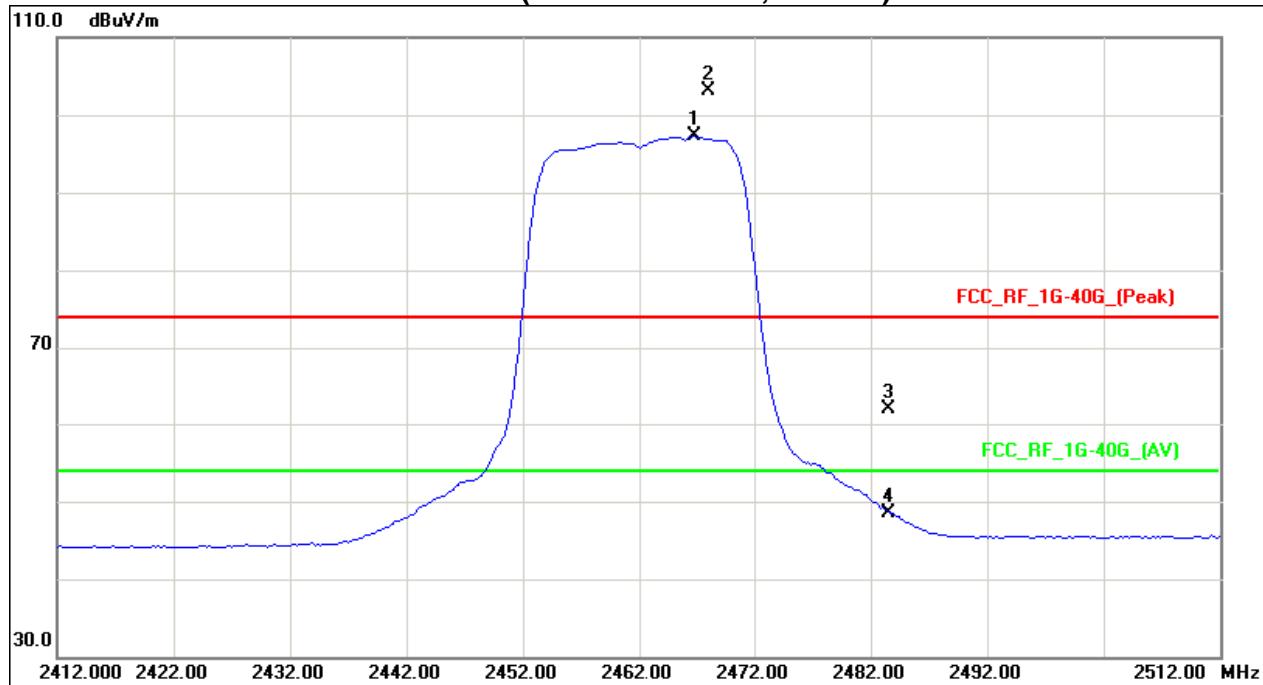
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2466.80	V	71.31	65.39	31.82	103.13	97.21			X/F
2483.50	V	30.03	16.78	31.80	61.83	48.58	74.00	54.00	X/E
4923.56	V	46.98	33.34	5.65	52.63	38.99	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH11 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE 2462MHz				

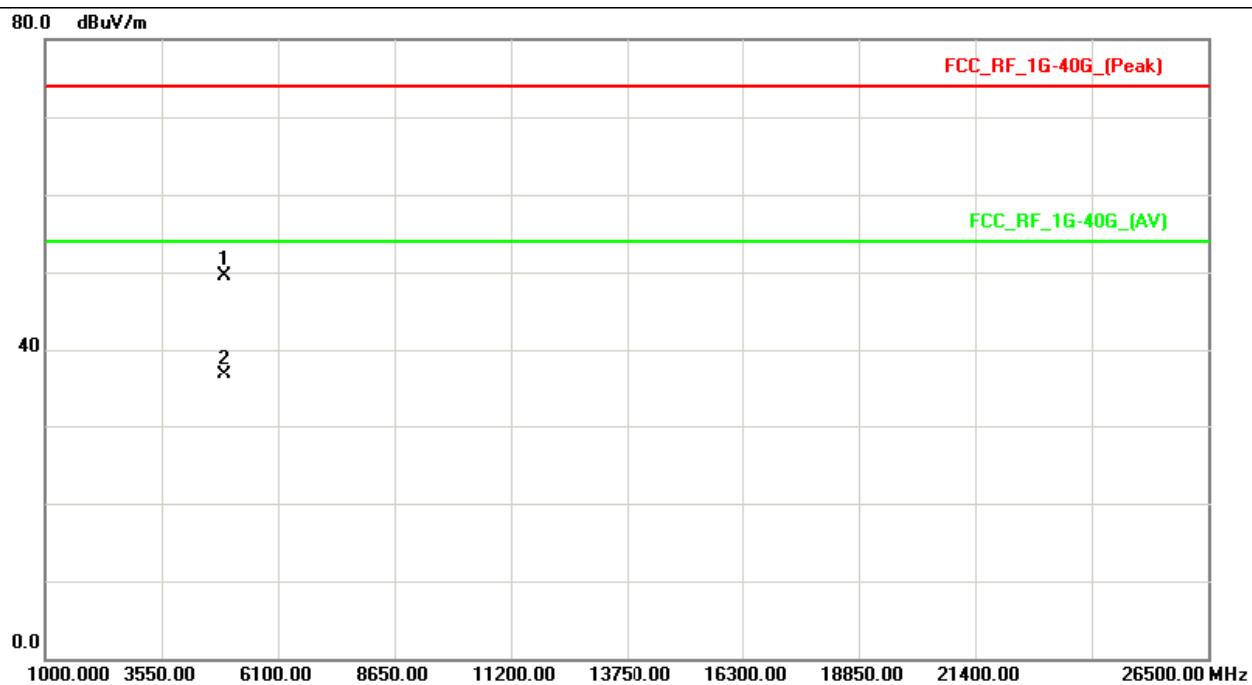
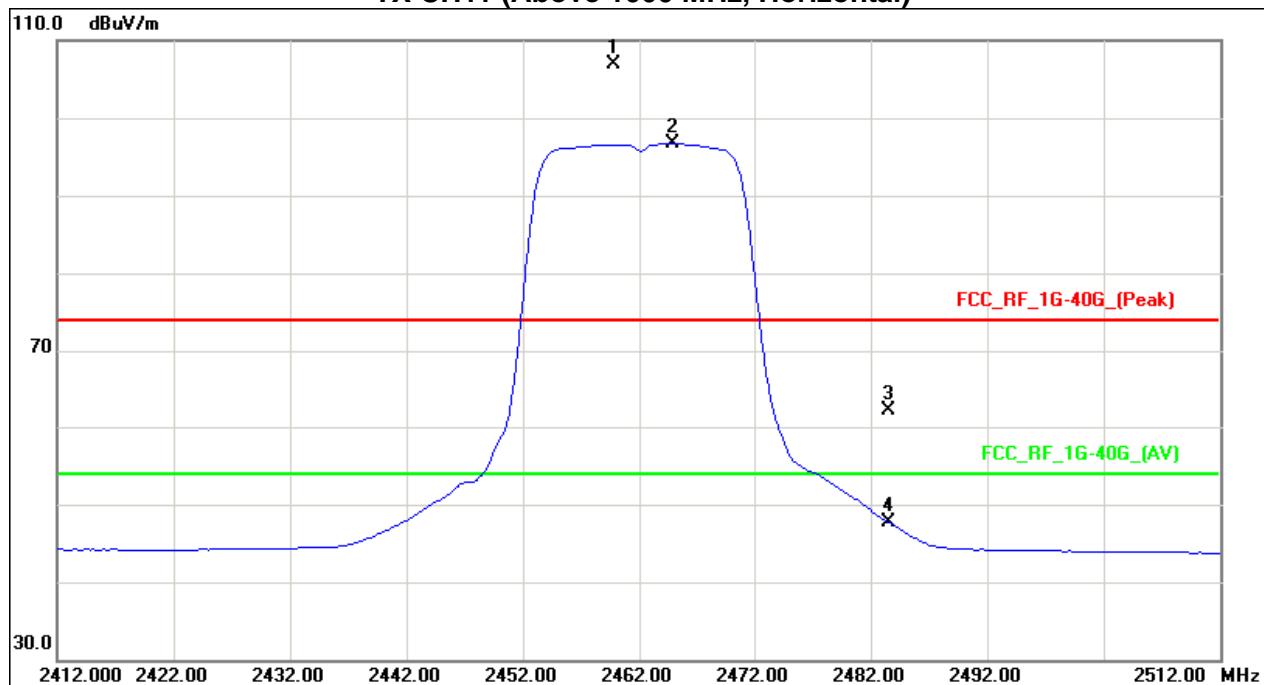
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2459.80	H	75.12	64.90	31.83	106.95	96.72			X/F
2483.50	H	30.24	15.82	31.80	62.04	47.62	74.00	54.00	X/E
4923.58	H	43.85	31.02	5.65	49.50	36.67	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
 - "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH11 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE 2422MHz				

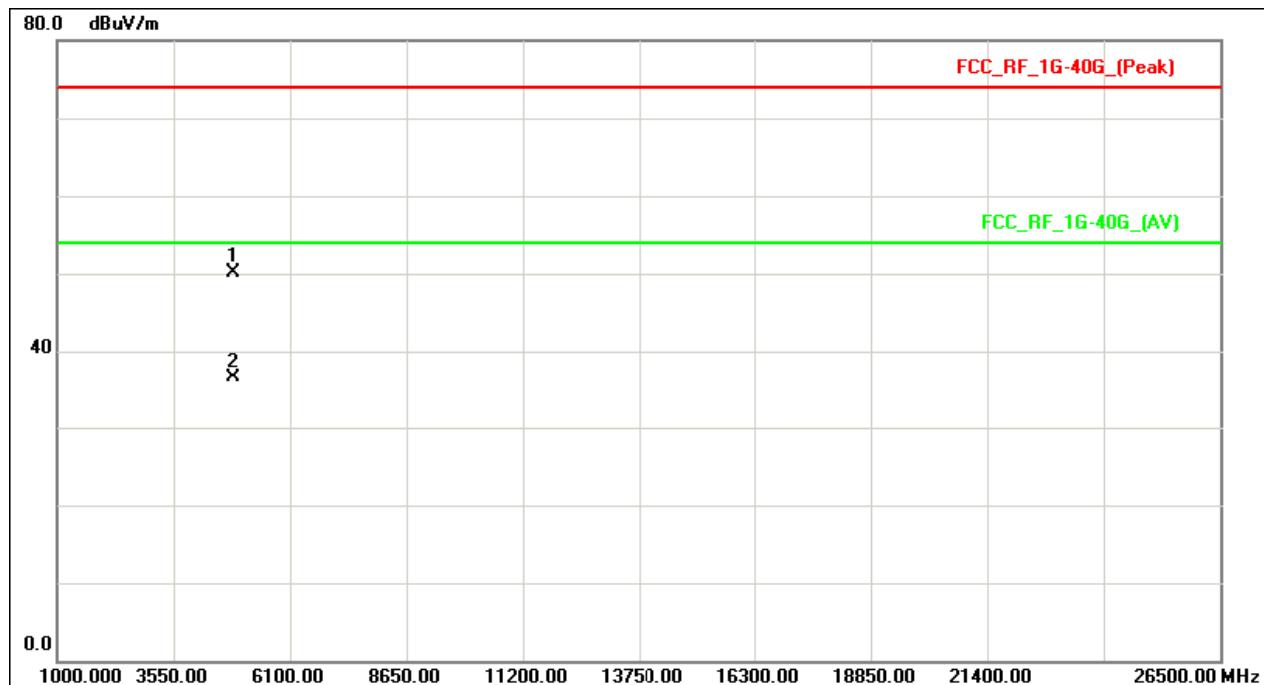
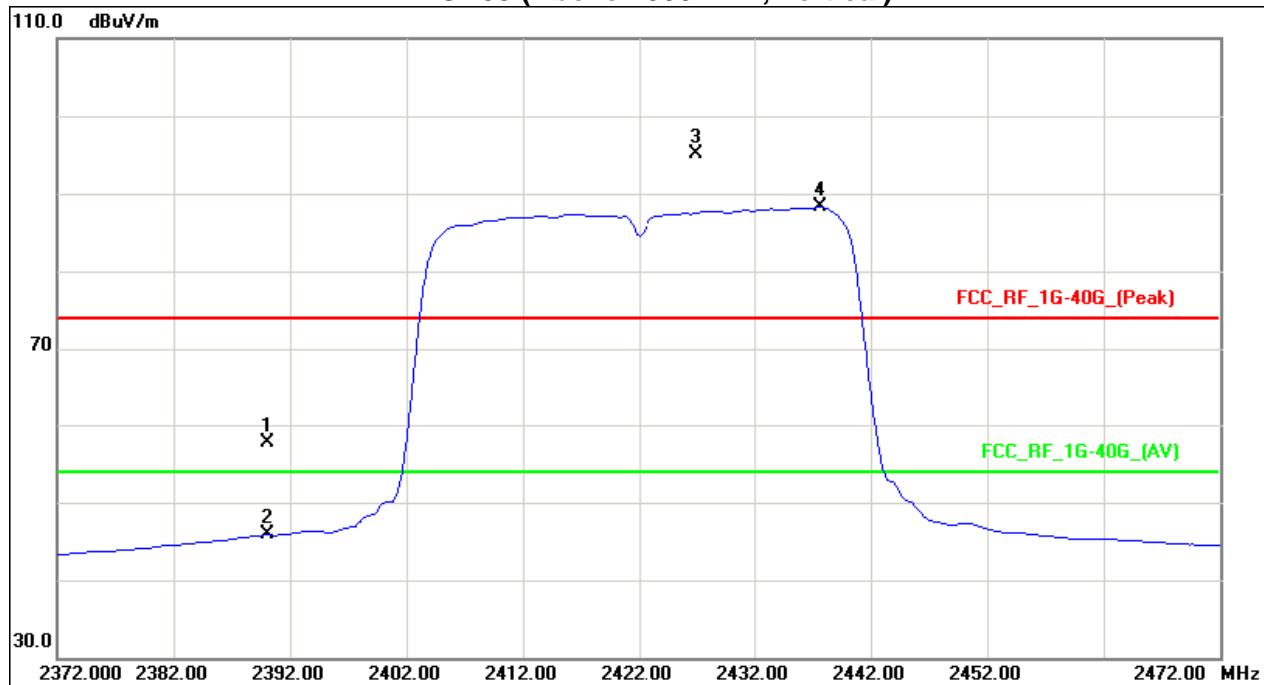
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	25.74	13.91	31.91	57.65	45.82	74.00	54.00	X/E
2427.00	V	63.28	56.40	31.87	95.15	88.25			X/F
4844.00	V	44.70	31.09	5.36	50.06	36.45	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH03 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE 2422MHz				

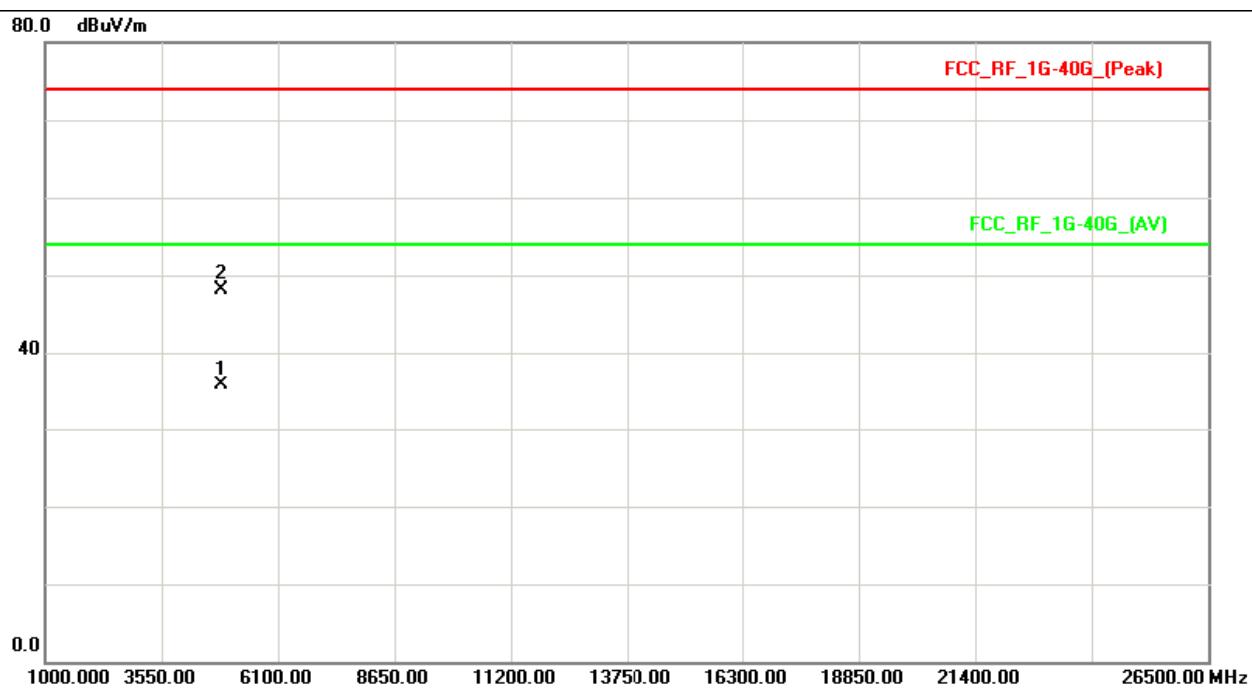
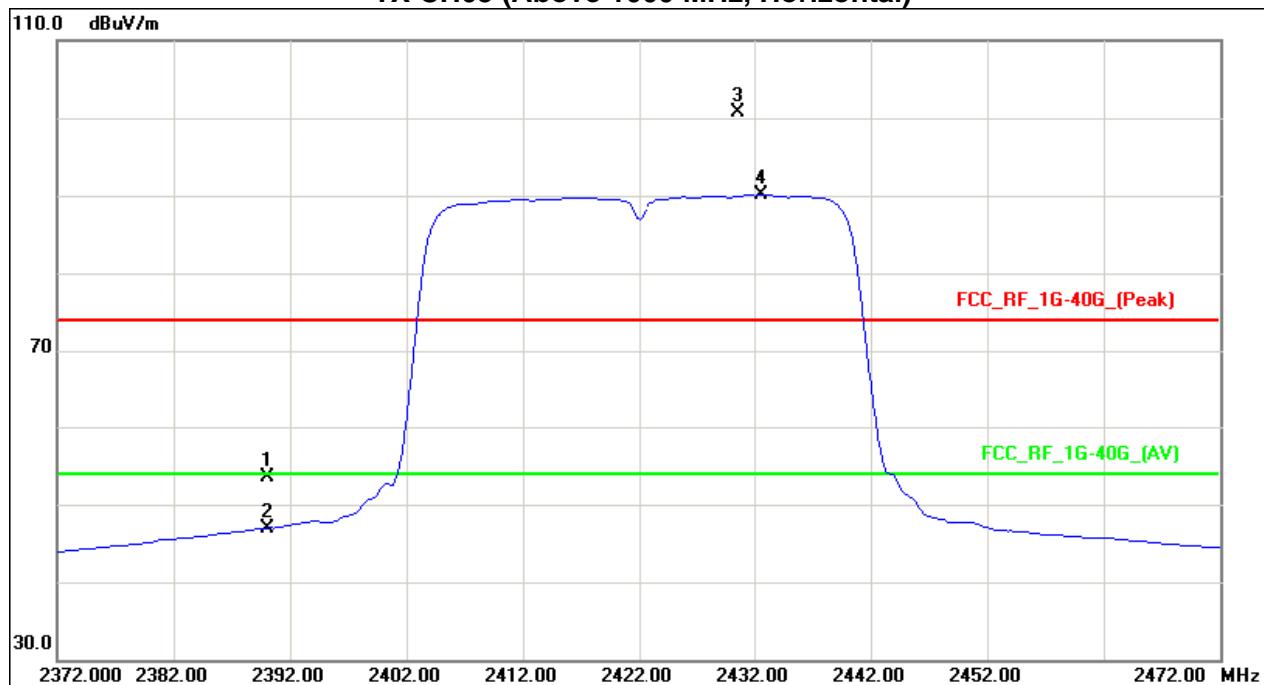
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	21.54	15.08	31.91	53.45	46.99	74.00	54.00	X/E
2430.60	H	68.75	58.25	31.87	100.62	90.11			X/F
4844.04	H	42.83	30.33	5.36	48.19	35.69	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH03 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE 2437MHz				

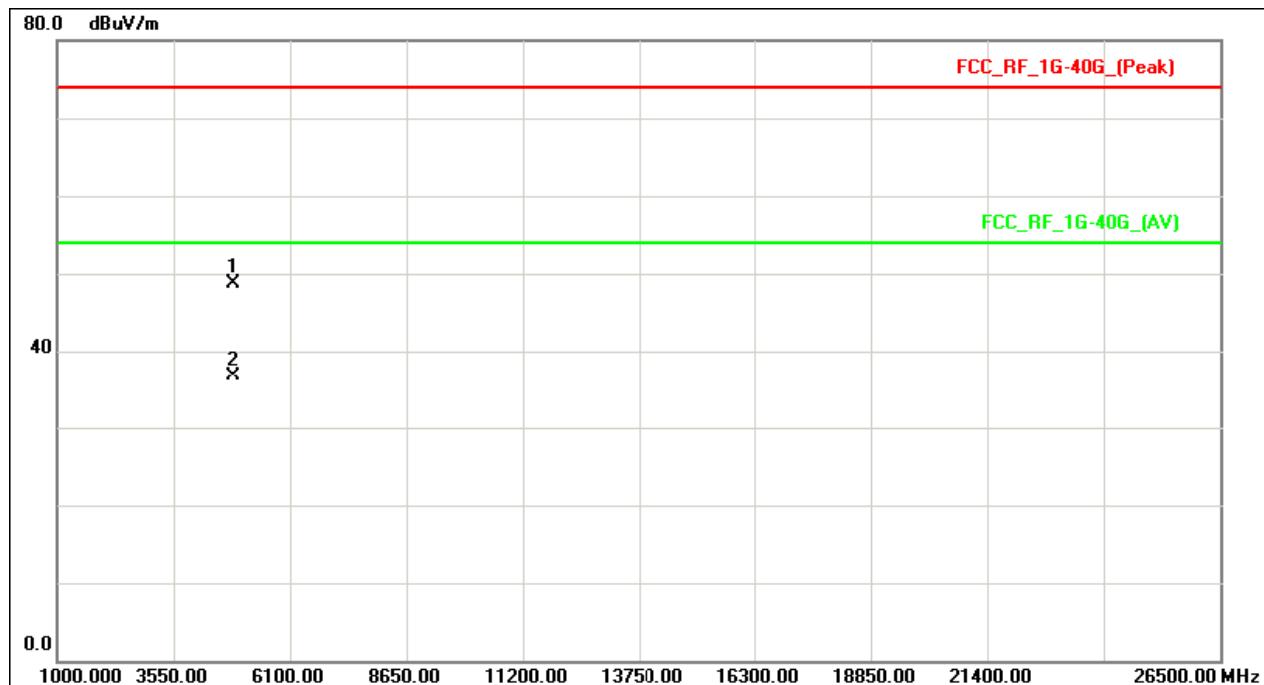
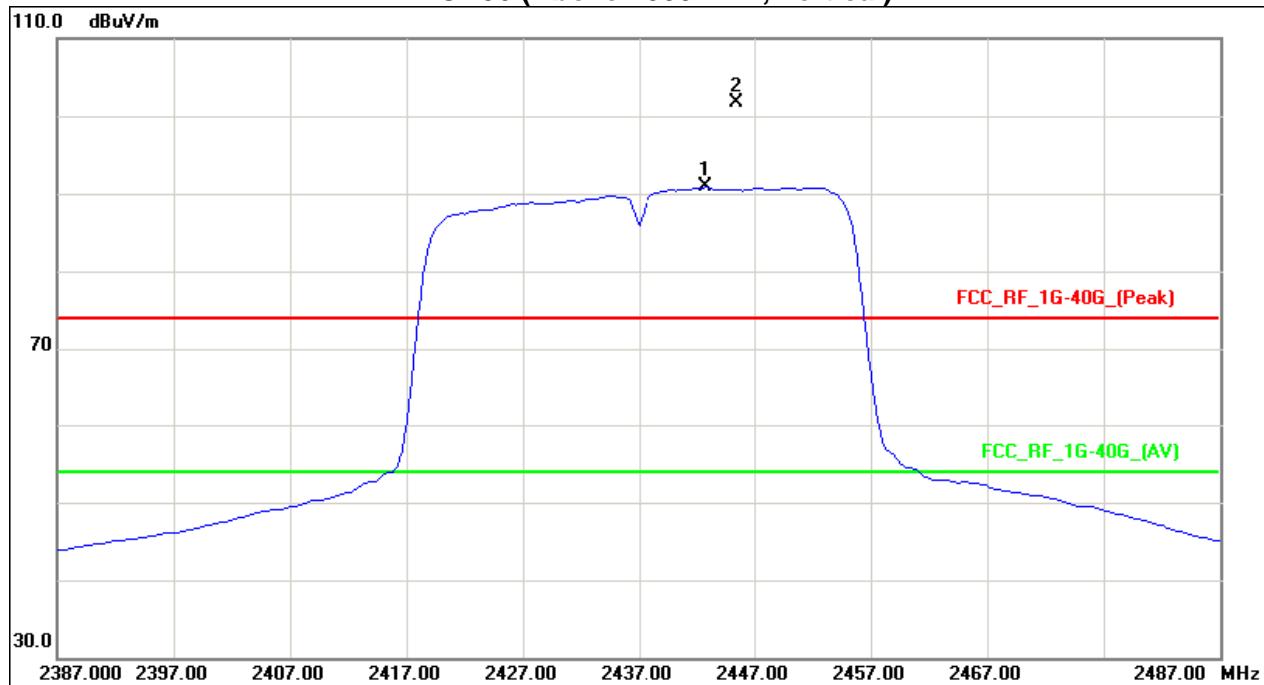
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2442.80	V	69.78	58.96	31.85	101.63	90.81			X/F
4873.64	V	43.30	31.33	5.47	48.77	36.80	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

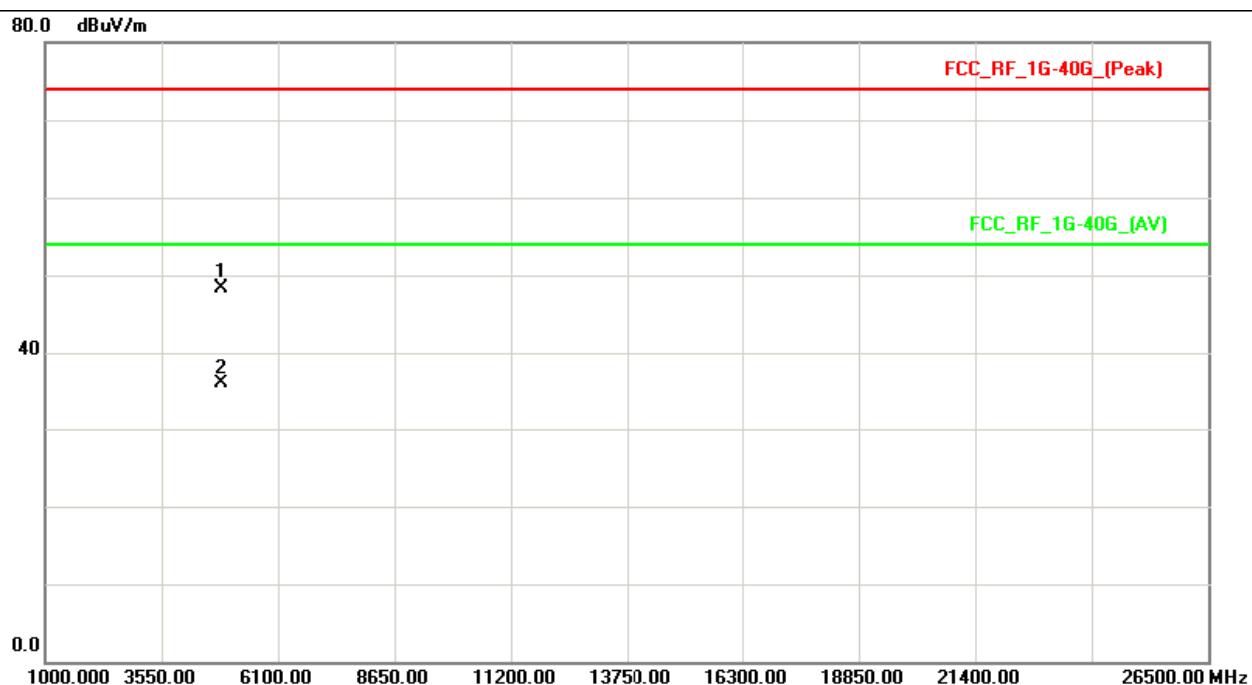
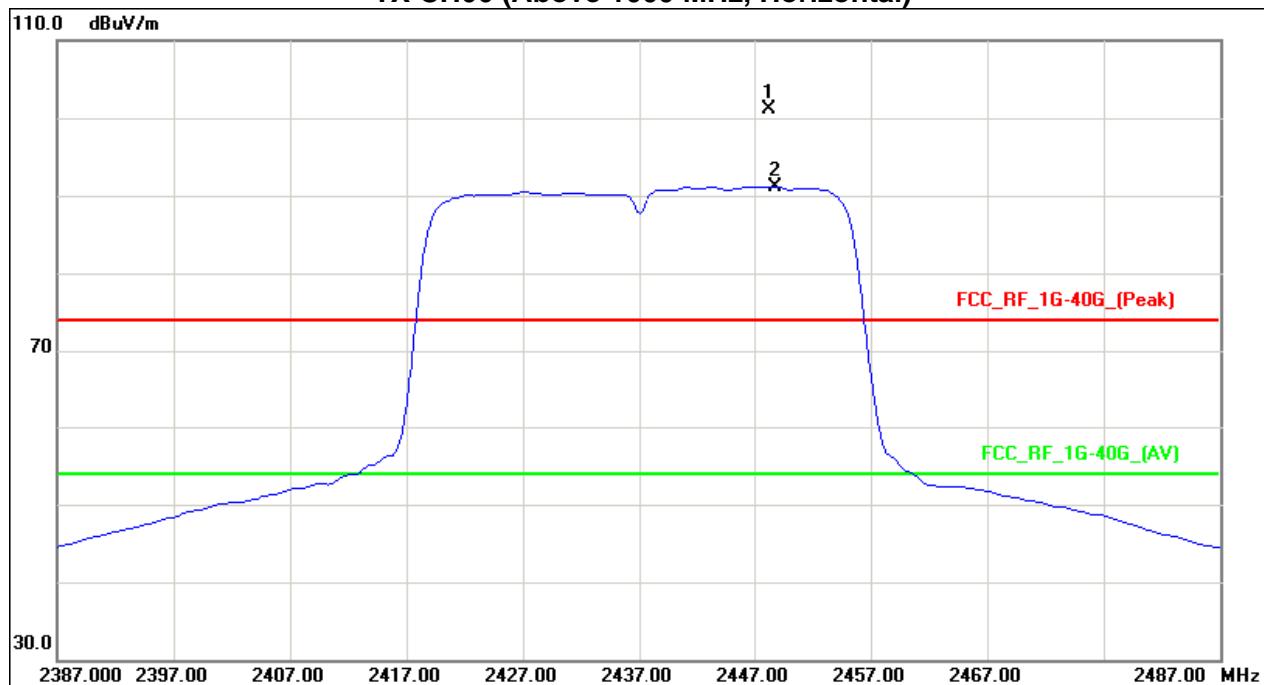
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2448.20	H	69.33	59.27	31.84	101.17	91.11			X/F
4873.96	H	42.86	30.49	5.47	48.33	35.96	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH06 (Above 1000 MHz, Horizontal)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE 2452MHz				

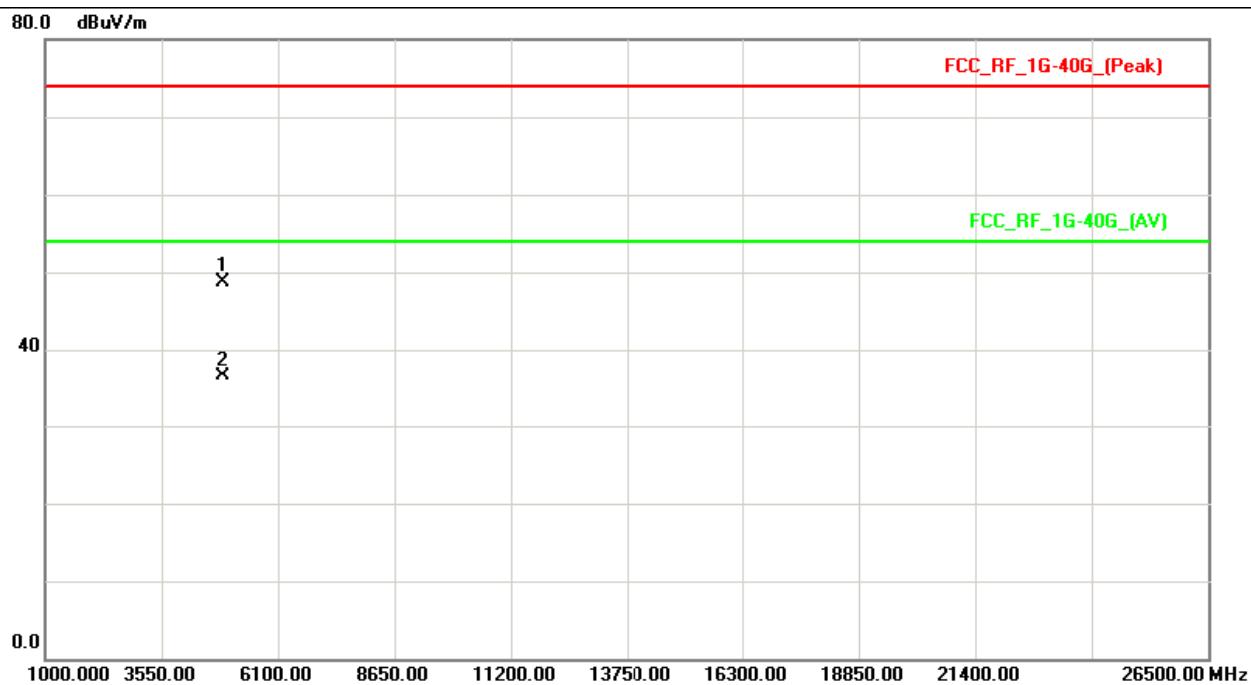
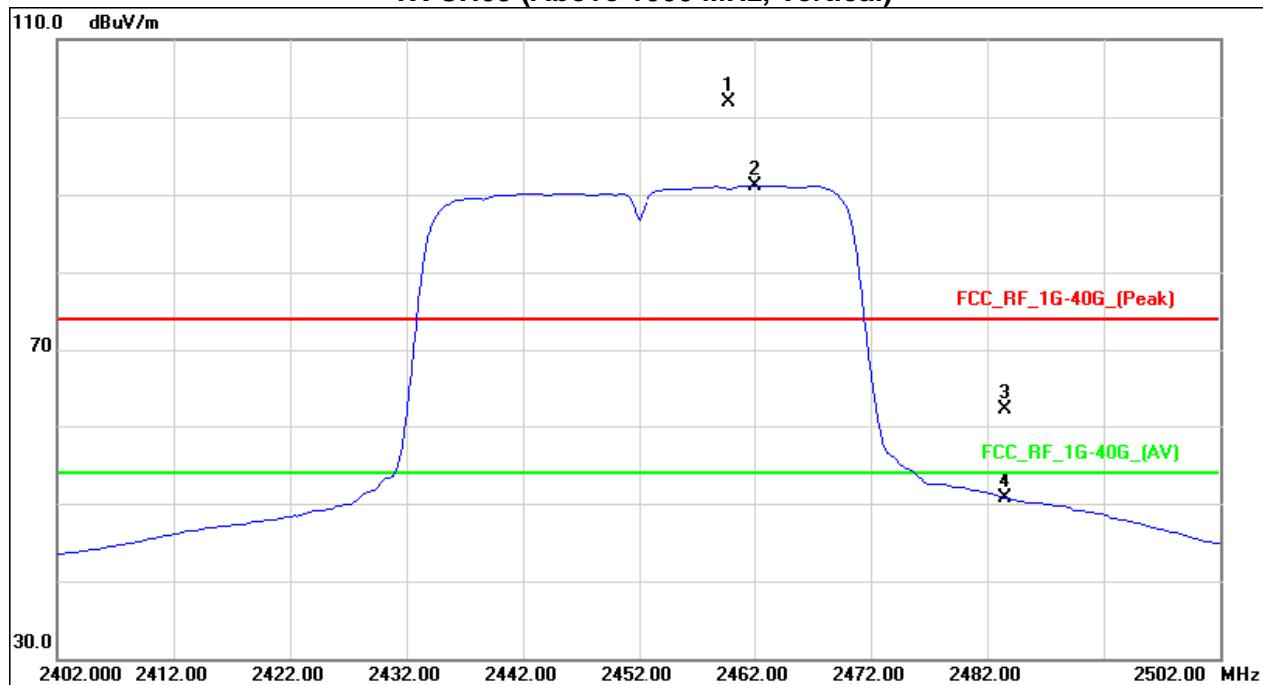
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2462.00	V	70.00	59.34	31.83	101.83	91.17			X/F
2483.50	V	30.27	18.89	31.80	62.07	50.69	74.00	54.00	X/E
4903.88	V	43.21	30.89	5.58	48.79	36.47	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH09 (Above 1000 MHz, Vertical)





EUT :	Cisco Edge 300		Model Name :	CS-E300-AP-K9	
Temperature :	25 °C		Relative Humidity :	58 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-40M MODE 2452MHz				

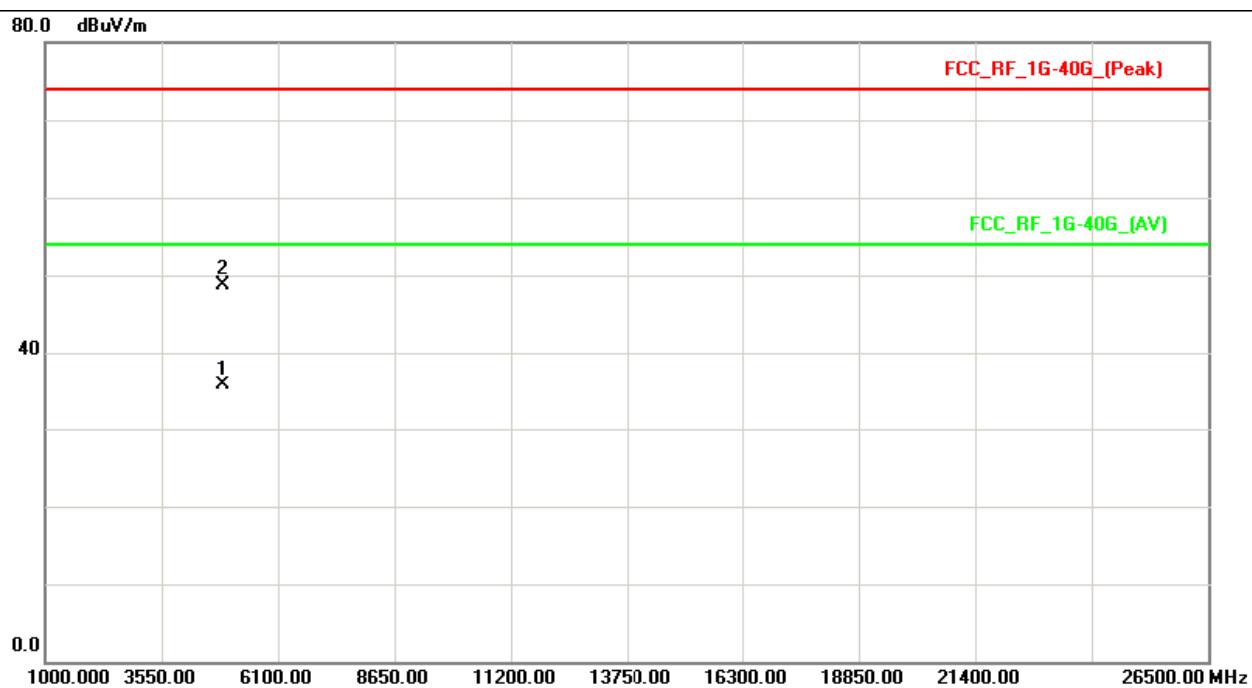
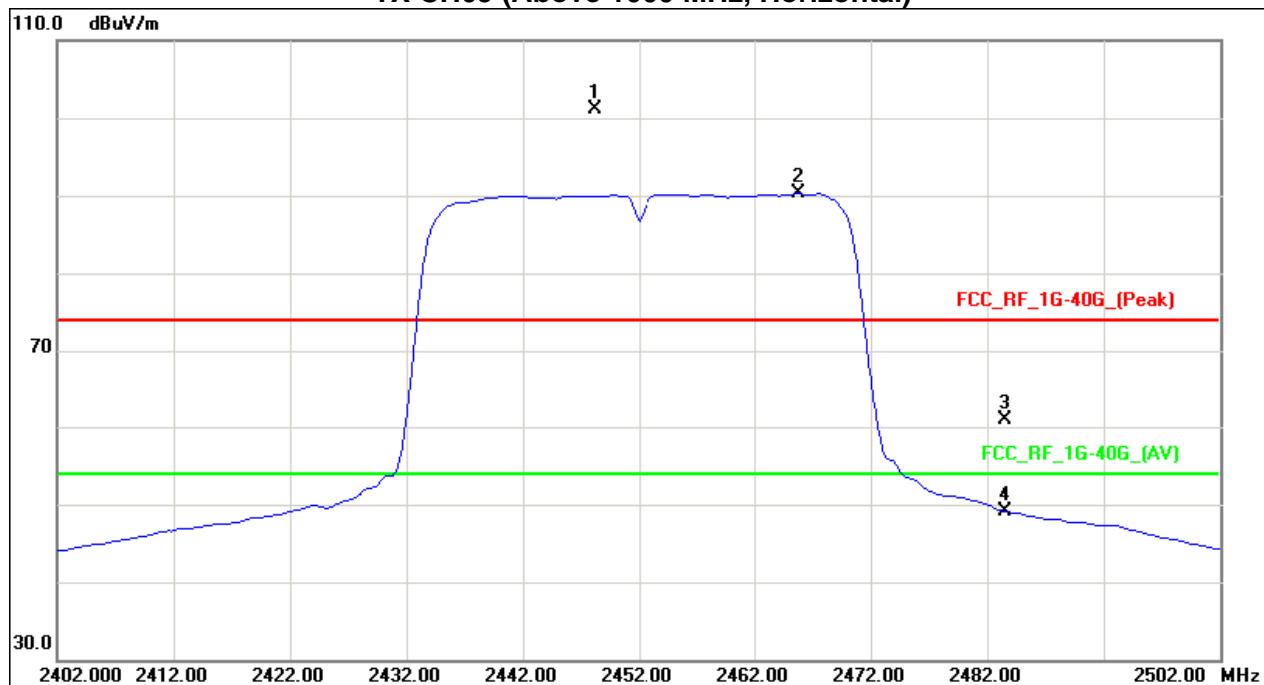
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.20	H	69.33	58.44	31.84	101.17	90.26			X/F
2483.50	H	29.16	17.28	31.80	60.96	49.08	74.00	54.00	X/E
4903.12	H	43.11	30.06	5.58	48.69	35.64	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Reading in which marked as Peak or AVG means measurements by using are Peak Mode or AVG with Detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =1MHz, Swp. Time = 0.3 sec./MHz, AVG Mode with detector BW=1MHz ; SPA setting in RBW=1MHz, VBW =10Hz, Swp. Time = 0.3 sec./MHz .
- (9) Measured level (dBuV/m)= Raw value (dBuV) + Correction Factor(dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor(dB).
Margin value = Emission level – Limit value.



TX CH09 (Above 1000 MHz, Horizontal)





5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 04, 2012

Remark: " N/A " denotes No Model Name , Serial No. or No Calibration specified.

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = 5 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

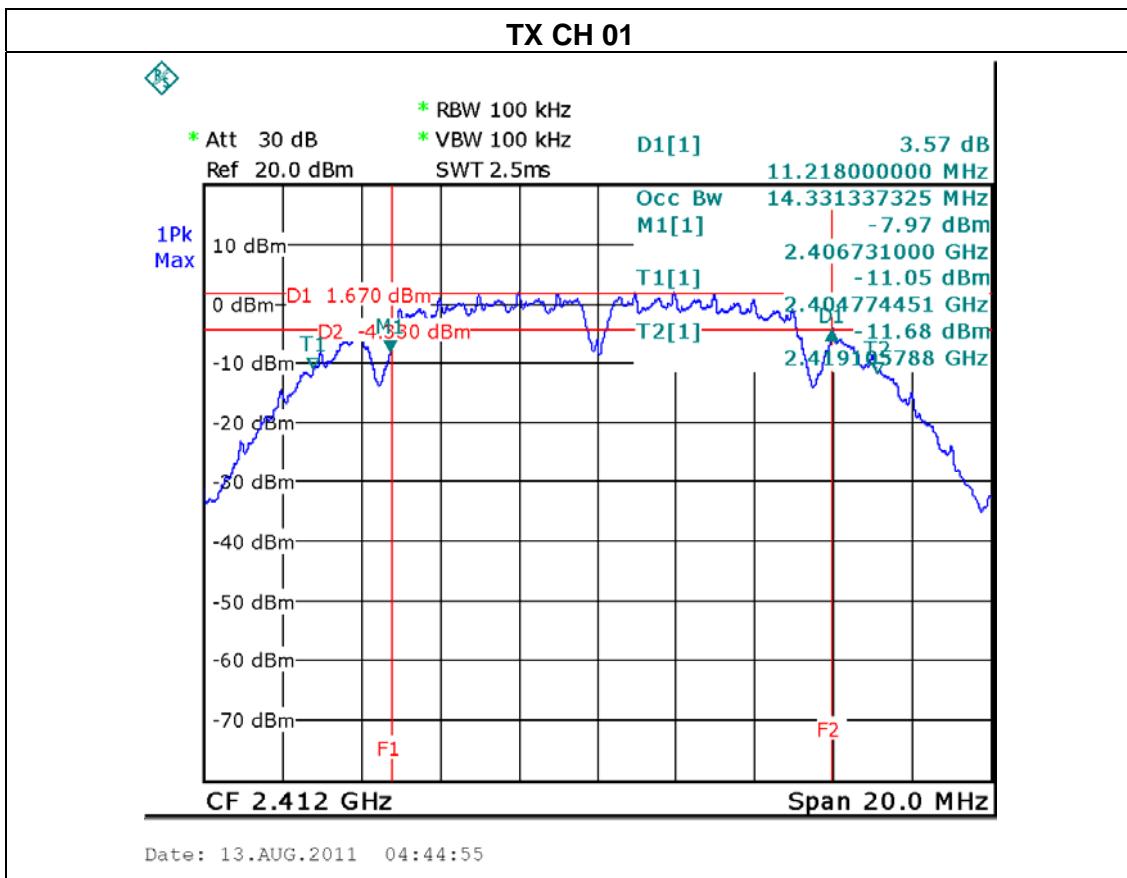
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

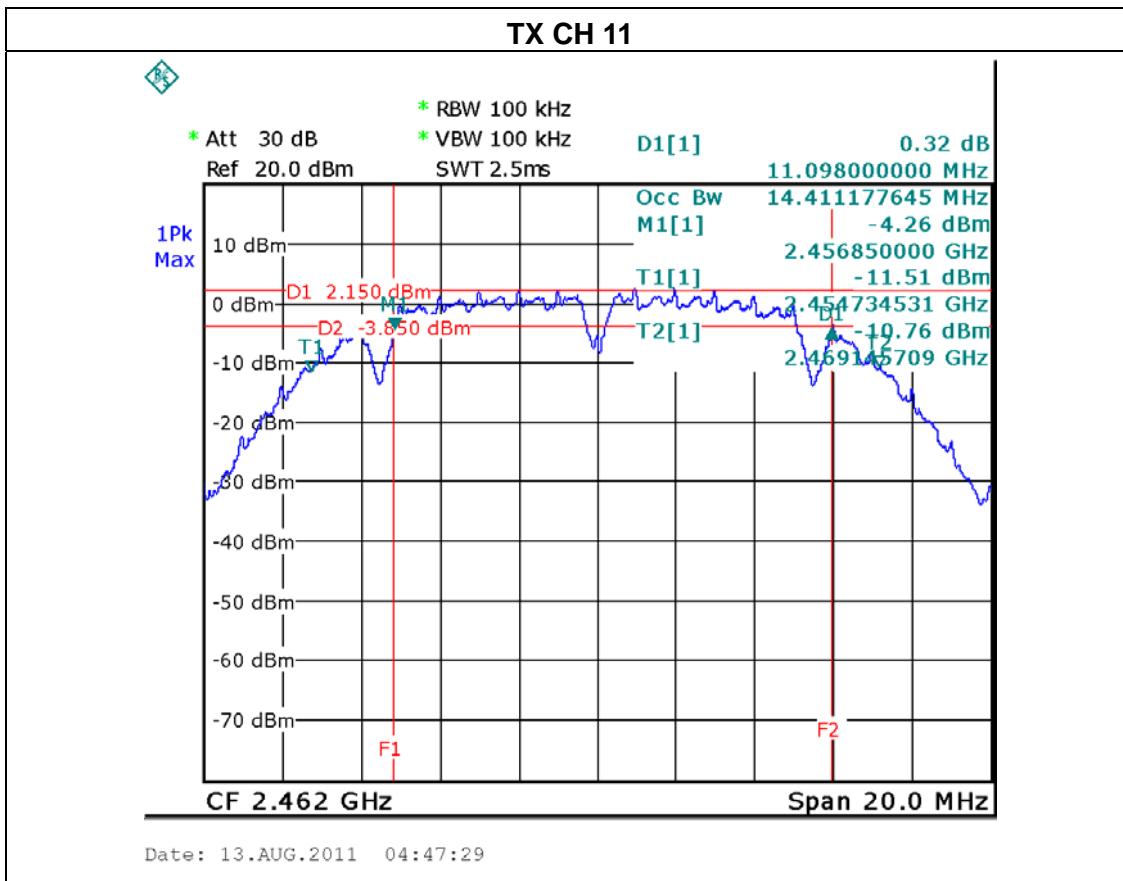
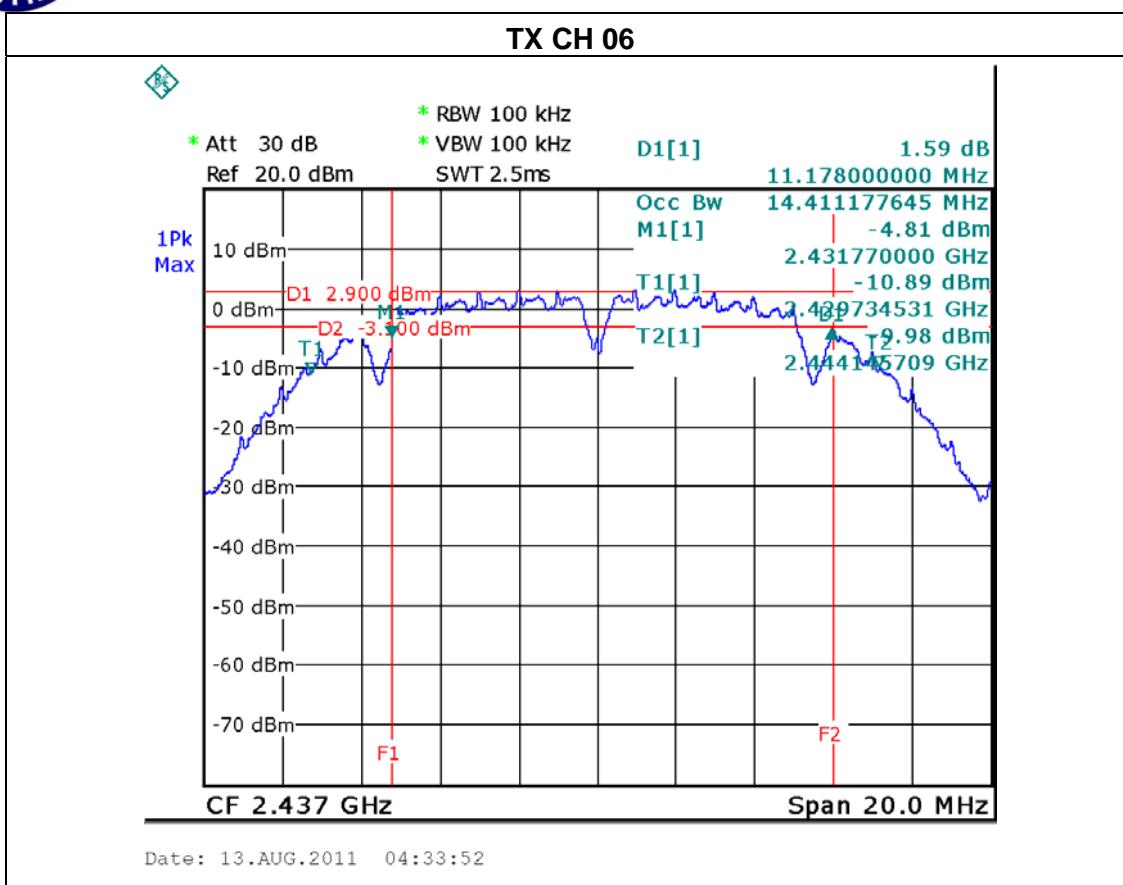


5.1.6 TEST RESULTS

EUT :	Cisco Edge 300	Model Name. :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	11.218	>=500KHz
CH06	2437	11.178	>=500KHz
CH11	2462	11.098	>=500KHz

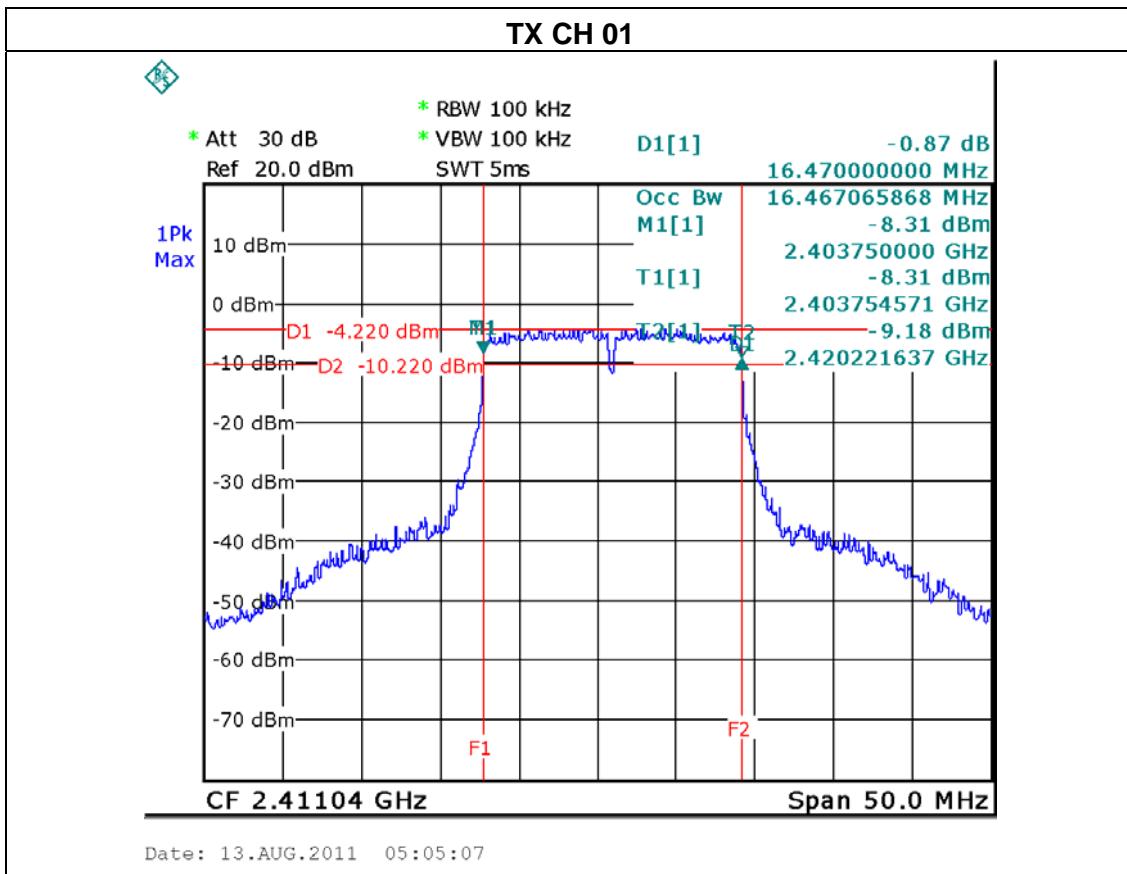


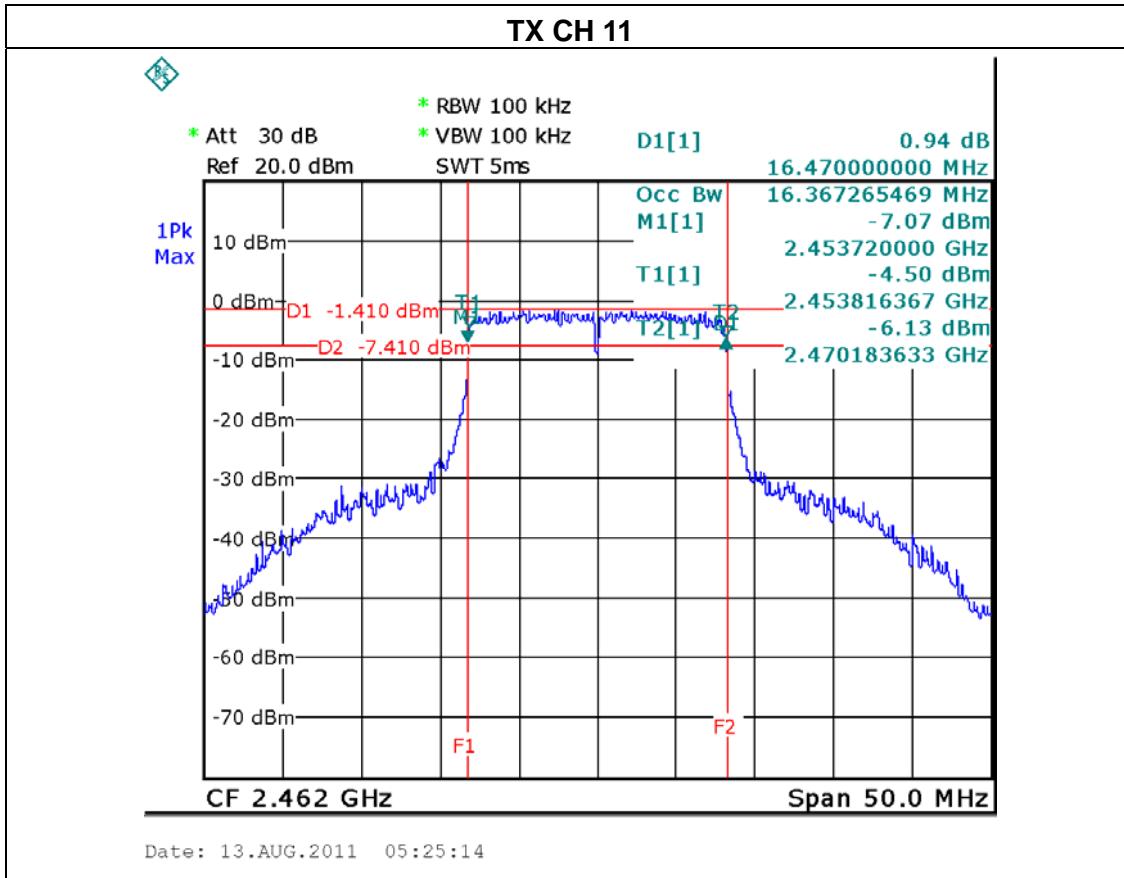
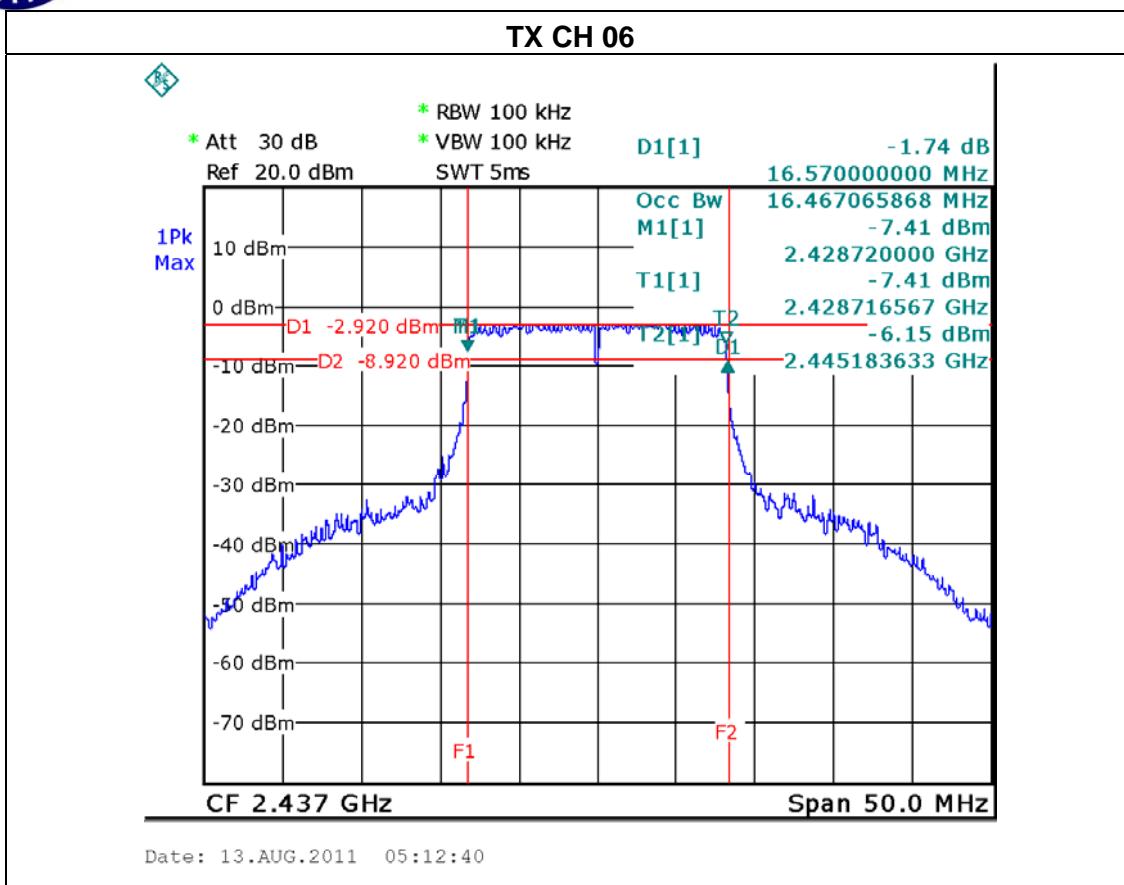




EUT :	Cisco Edge 300	Model Name. :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.470	>=500KHz
CH06	2437	16.570	>=500KHz
CH11	2462	16.470	>=500KHz

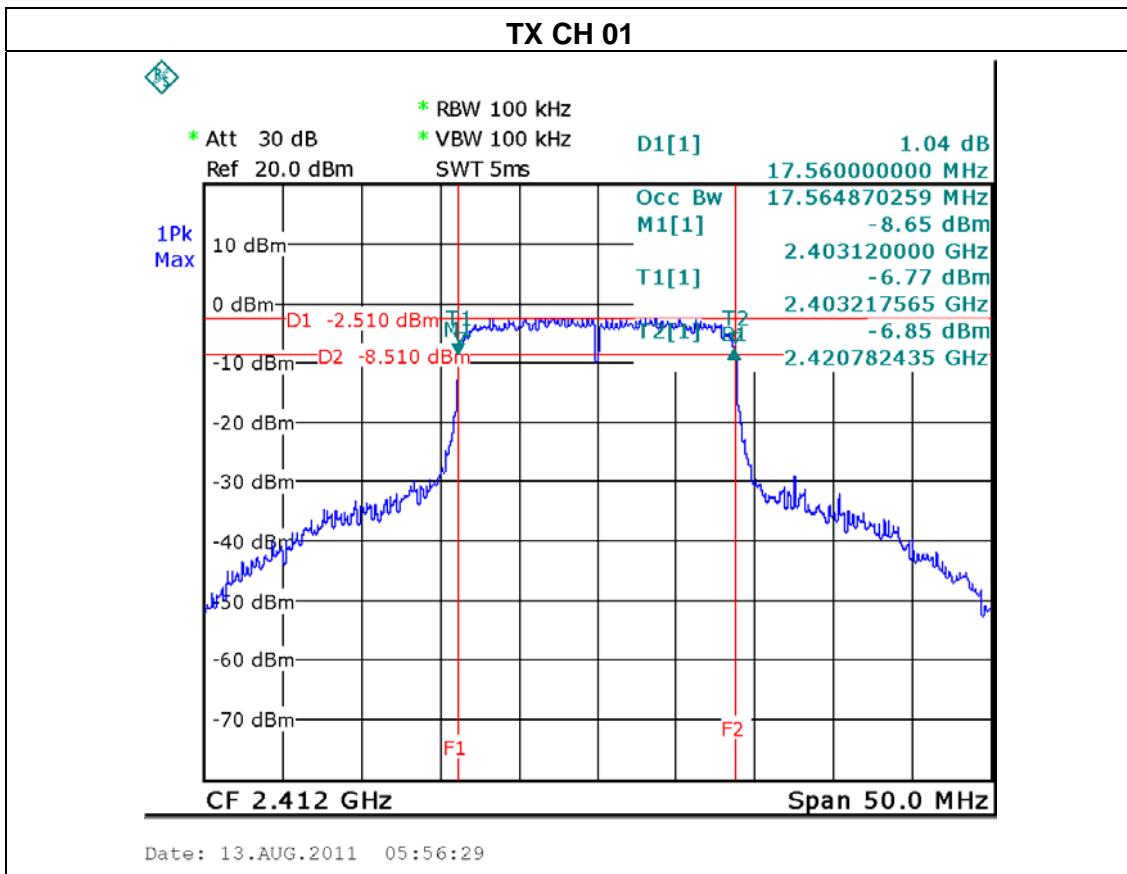


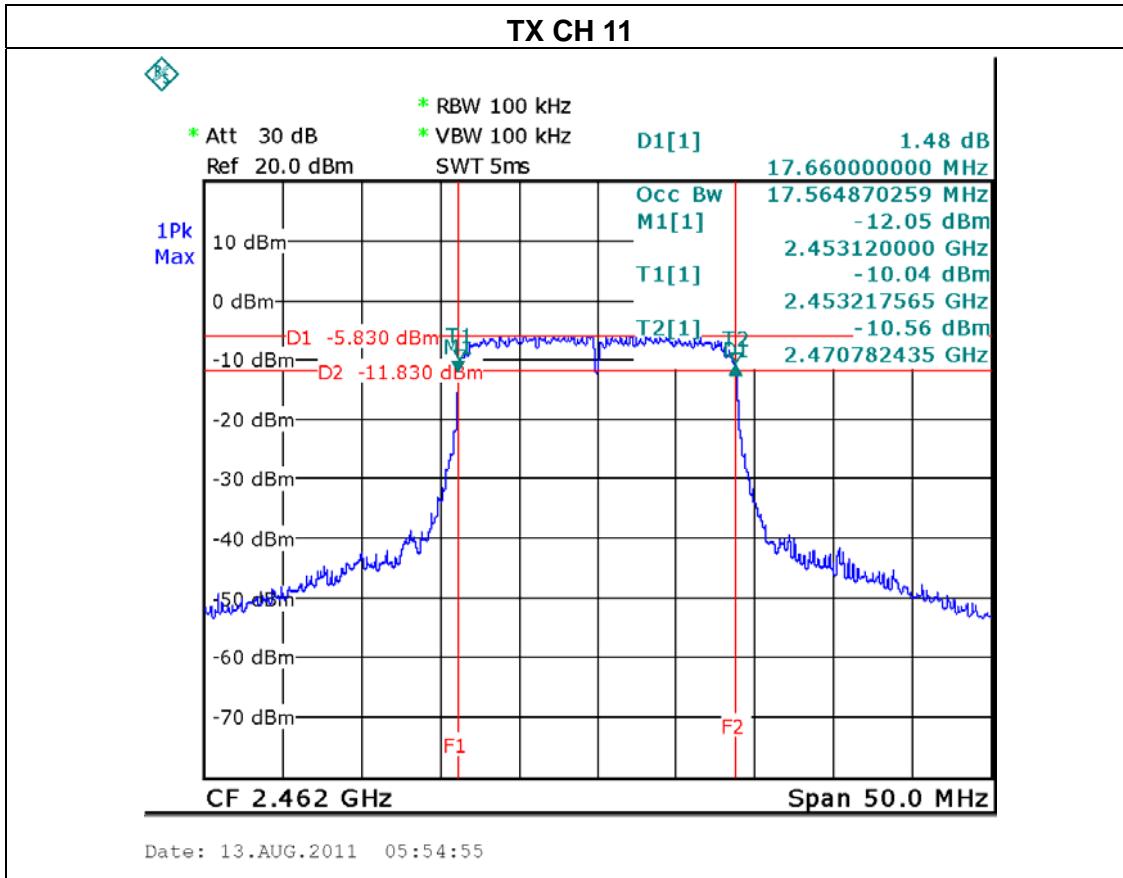
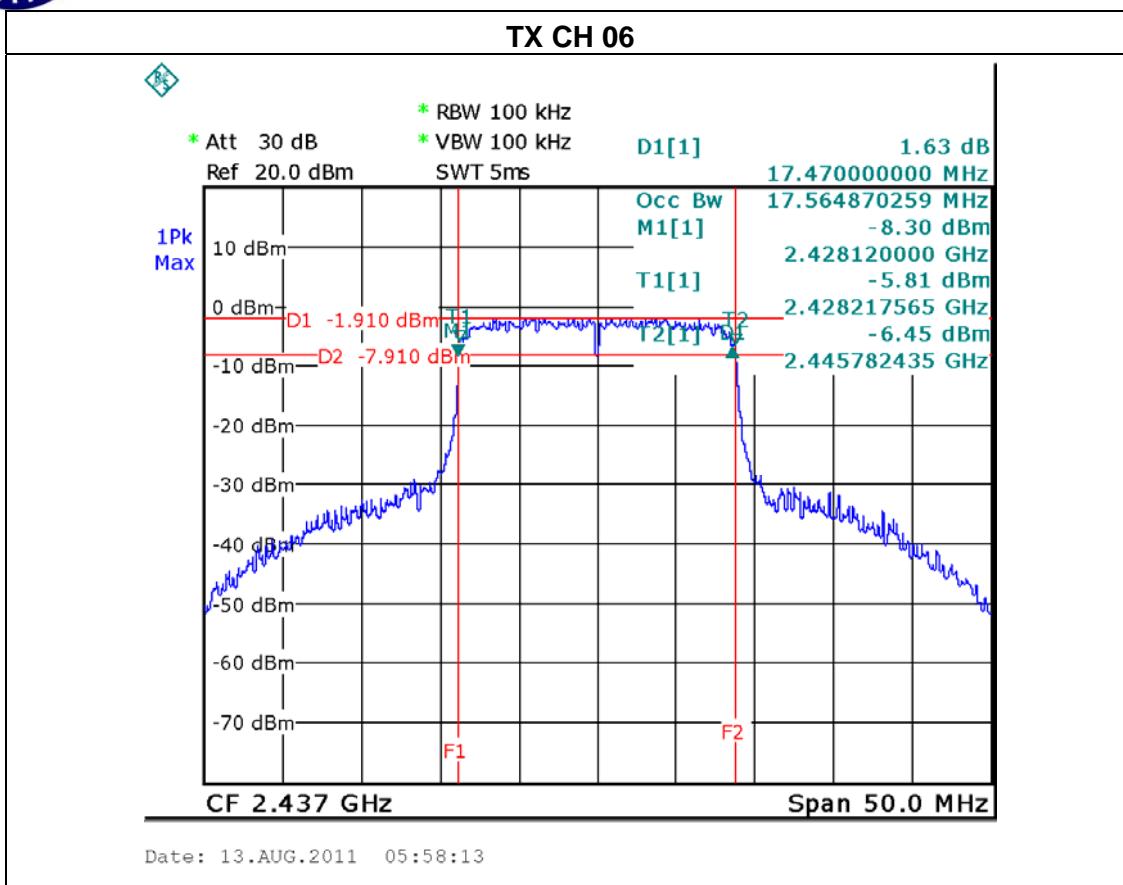




EUT :	Cisco Edge 300	Model Name. :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE -20MHz/ CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.560	>=500KHz
CH06	2437	17.470	>=500KHz
CH11	2462	17.660	>=500KHz

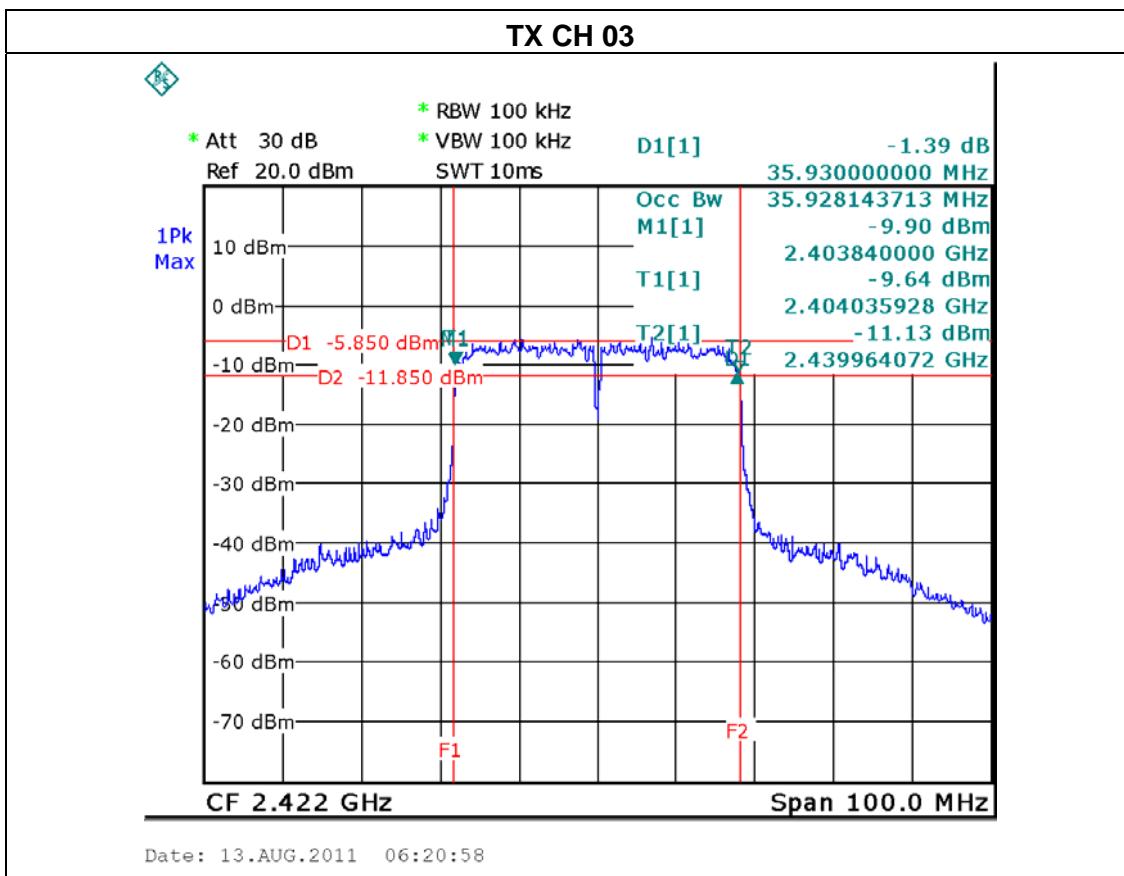


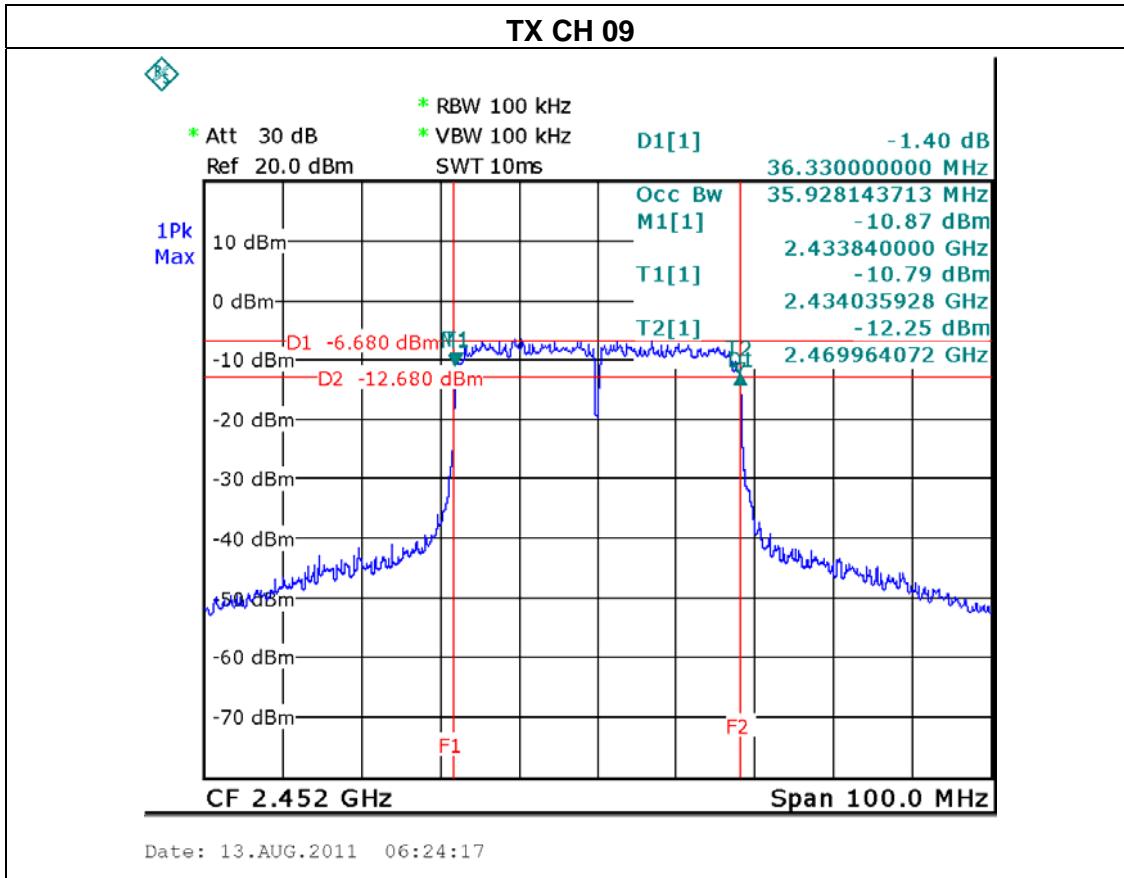
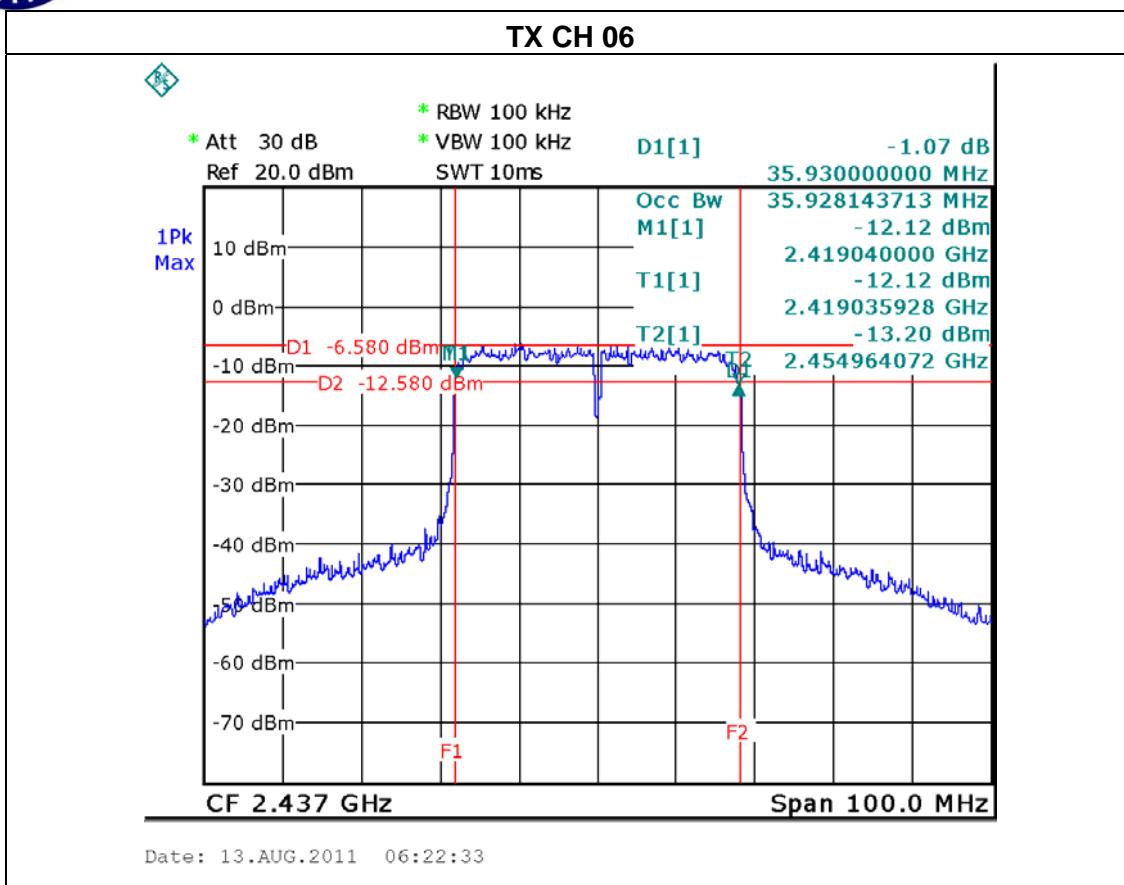




EUT :	Cisco Edge 300	Model Name. :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE -40MHz/ CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	35.930	>=500KHz
CH06	2437	35.930	>=500KHz
CH09	2452	36.330	>=500KHz







6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr.29.2012
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr.29.2012

Remark: " N/A " denotes No Model Name , Serial No. or No Calibration specified.

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter and antenna output port as show in the block diagram below,

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

**6.1.6 TEST RESULTS**

EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	18.50	30	1
CH06	2437 MHz	18.30	30	1
CH11	2462 MHz	17.74	30	1

EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	20.10	30	1
CH06	2437 MHz	20.13	30	1
CH11	2462 MHz	20.30	30	1



EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

Maximum Output Power

ANT 1

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	18.30	30	1
CH06	2437 MHz	18.29	30	1
CH11	2462 MHz	18.34	30	1

Maximum Output Power

ANT 2

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	18.20	30	1
CH06	2437 MHz	18.30	30	1
CH11	2462 MHz	18.36	30	1

Maximum Output Power

ANT 1 + ANT 2

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	21.26	30	1
CH06	2437 MHz	21.31	30	1
CH11	2462 MHz	21.36	30	1

Remark :

- (1) The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
$$((dBm/Chain 1)/10^{\log}) + ((dBm/Chain 2)/10^{\log}) + ((dBm/ChainN)/10^{\log}) =$$
 Combined peak output power in mW.
- (2) Antenna Gain=2 dBi.



EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09		

Maximum Output Power

ANT 1				
Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	16.39	30	1
CH06	2437 MHz	16.14	30	1
CH09	2452 MHz	15.94	30	1

Maximum Output Power

ANT 2				
Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	15.95	30	1
CH06	2437 MHz	16.17	30	1
CH09	2452 MHz	16.03	30	1

Maximum Output Power

ANT 1 + ANT 2				
Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	19.19	30	1
CH06	2437 MHz	19.17	30	1
CH09	2452 MHz	19.00	30	1

Remark :

- (1) The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:
$$((dBm/Chain 1)/10^{\log}) + ((dBm/Chain 2)/10^{\log}) + ((dBm/ChainN)/10^{\log}) =$$
 Combined peak output power in mW.
- (2) Antenna Gain=2 dBi.



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

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.

Frequencies (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

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 04, 2012

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

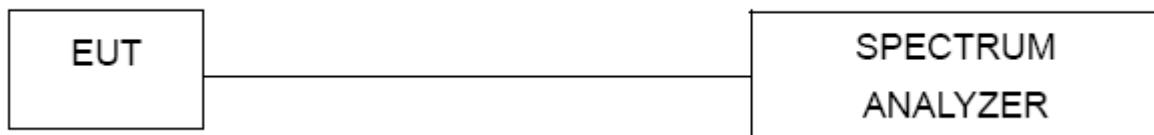
7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = 10 ms.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

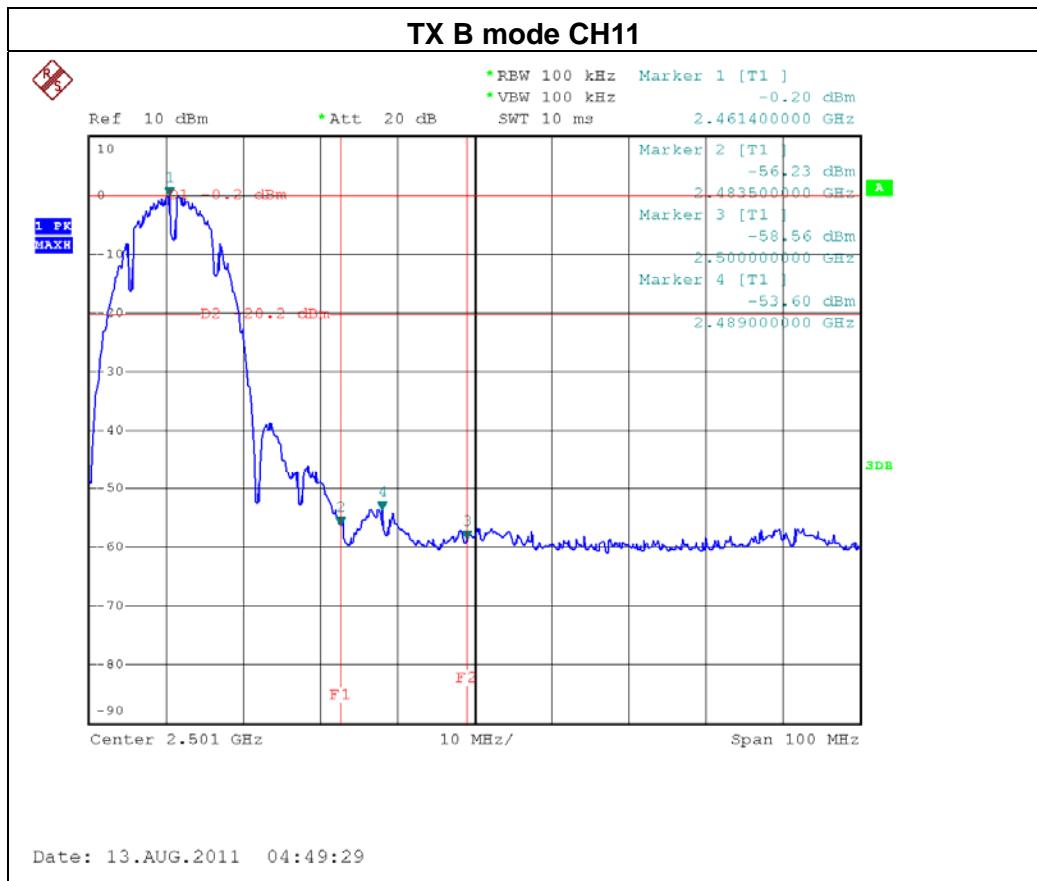
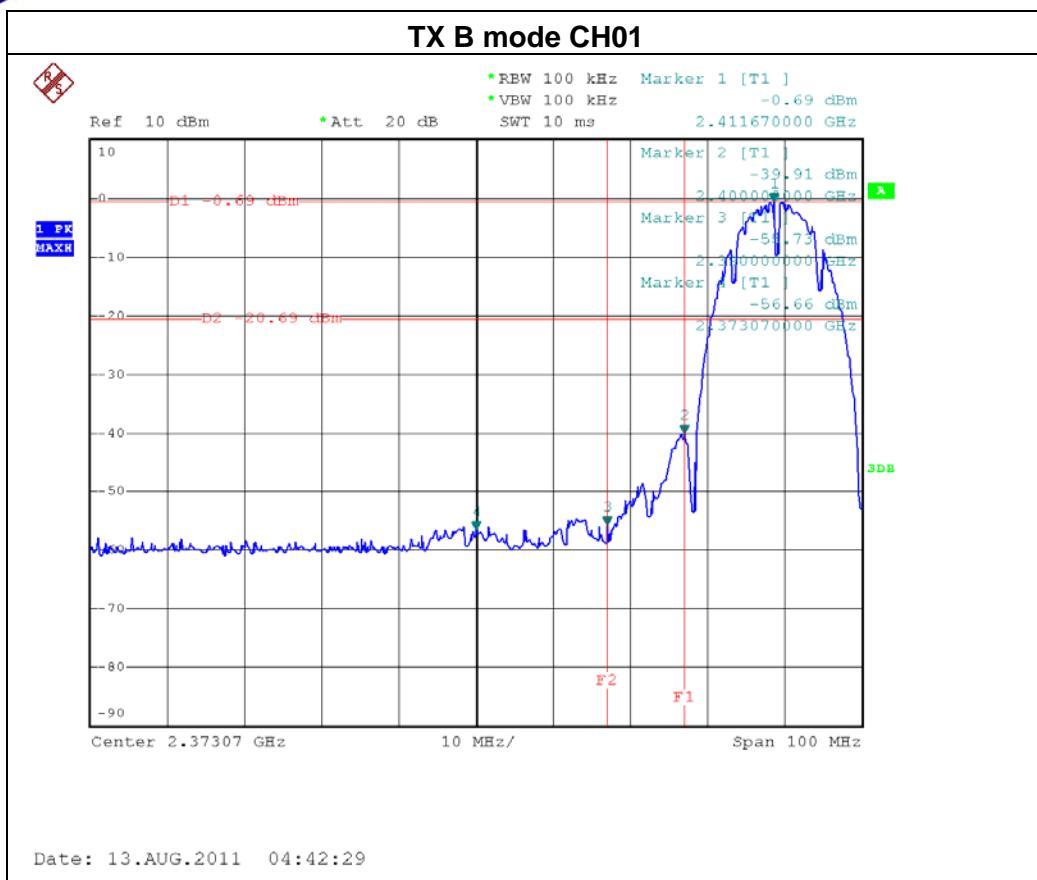
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

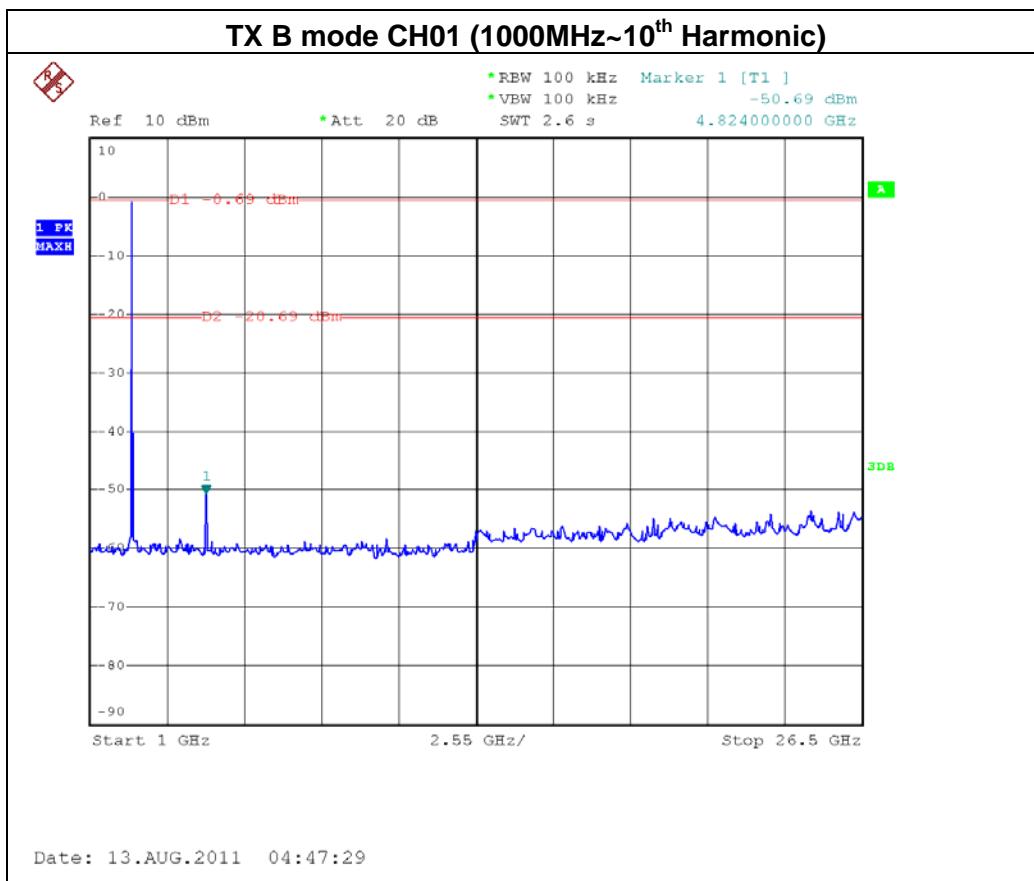
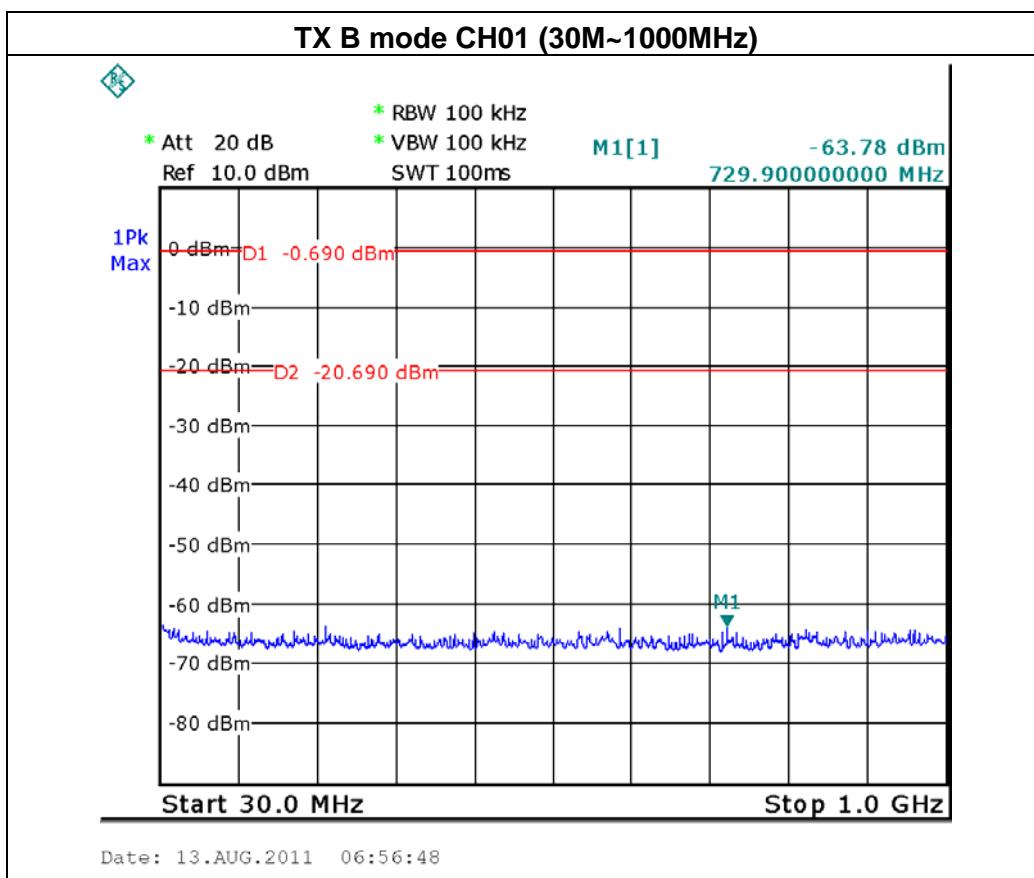


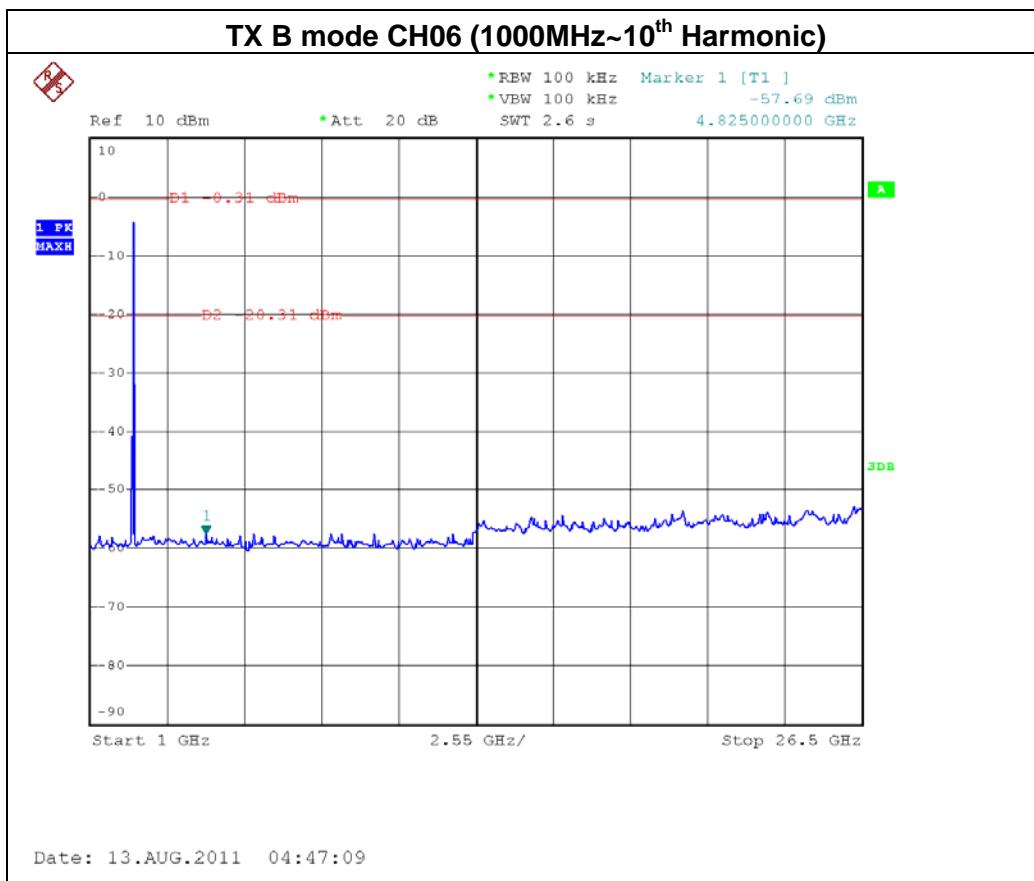
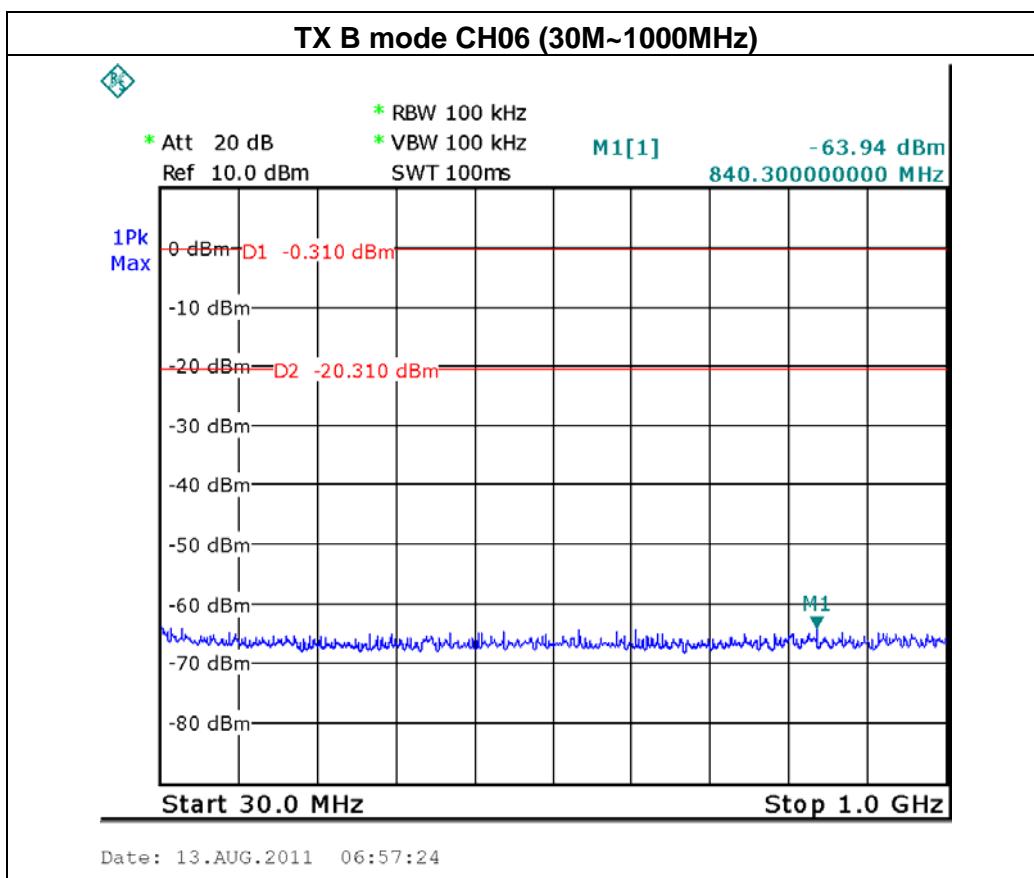
7.1.6 TEST RESULTS

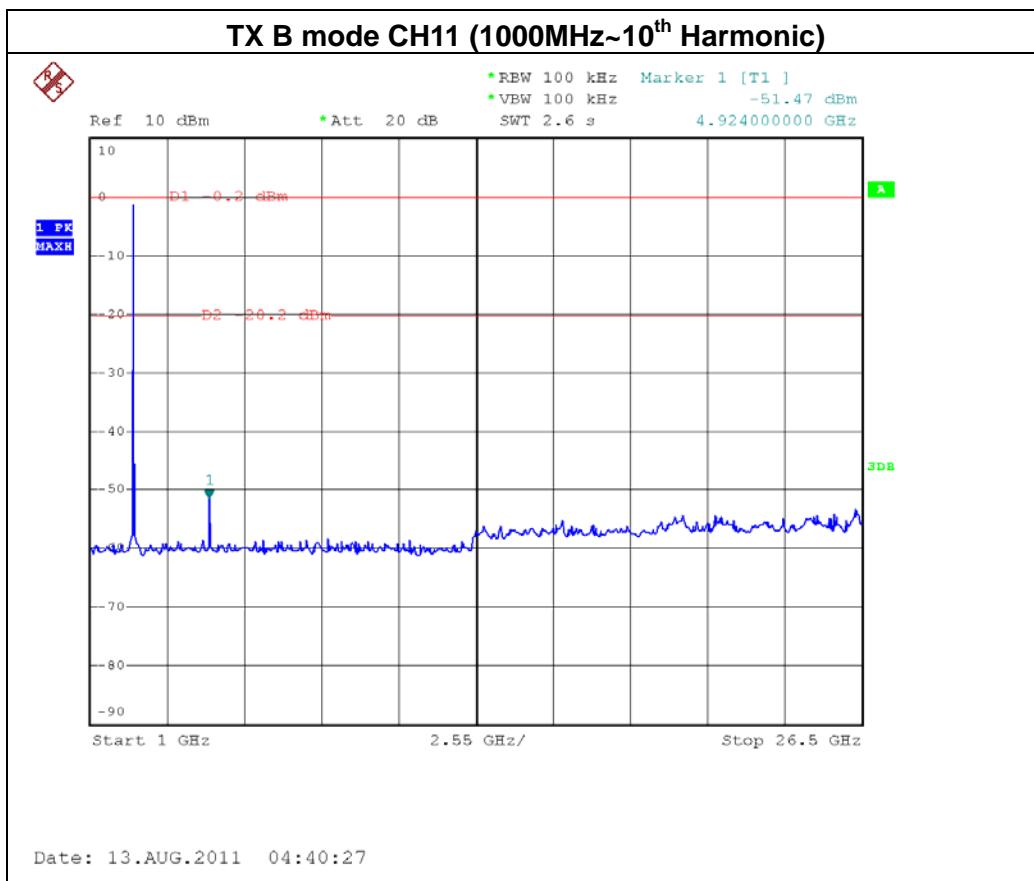
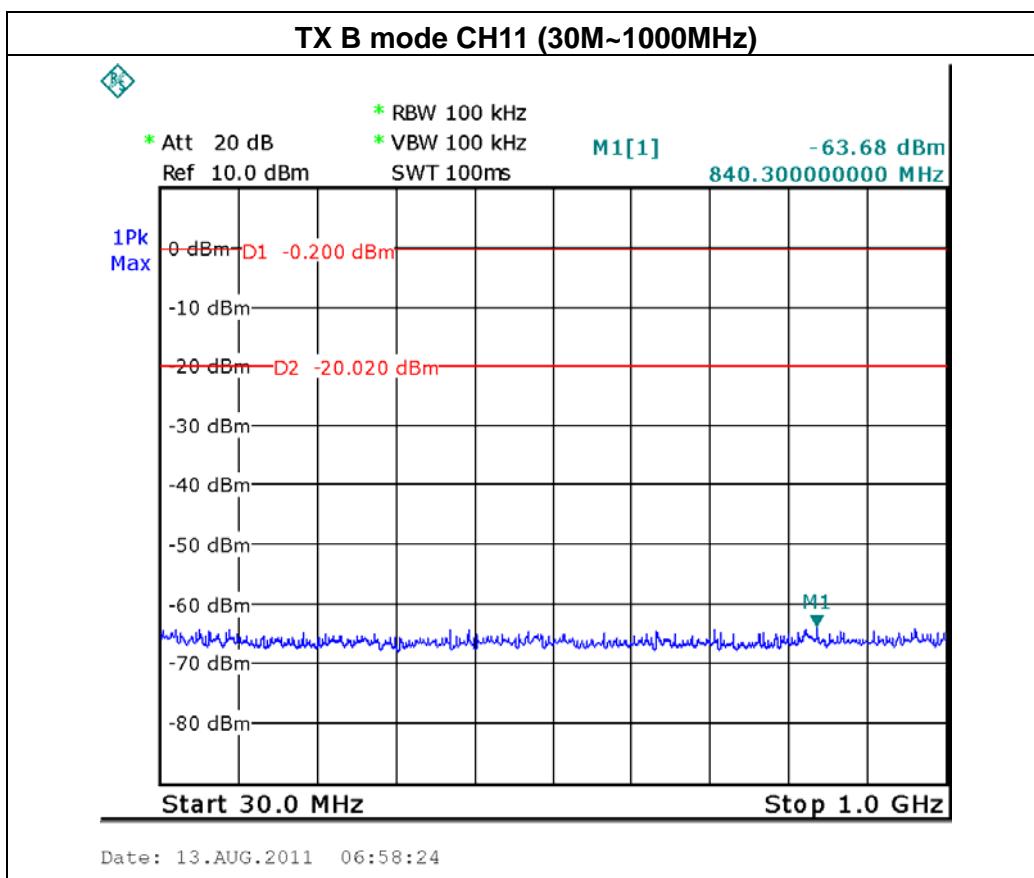
EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06 , CH11		

Channel of Worst Data: CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2390.00	-55.73	2489.00	-53.60
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			





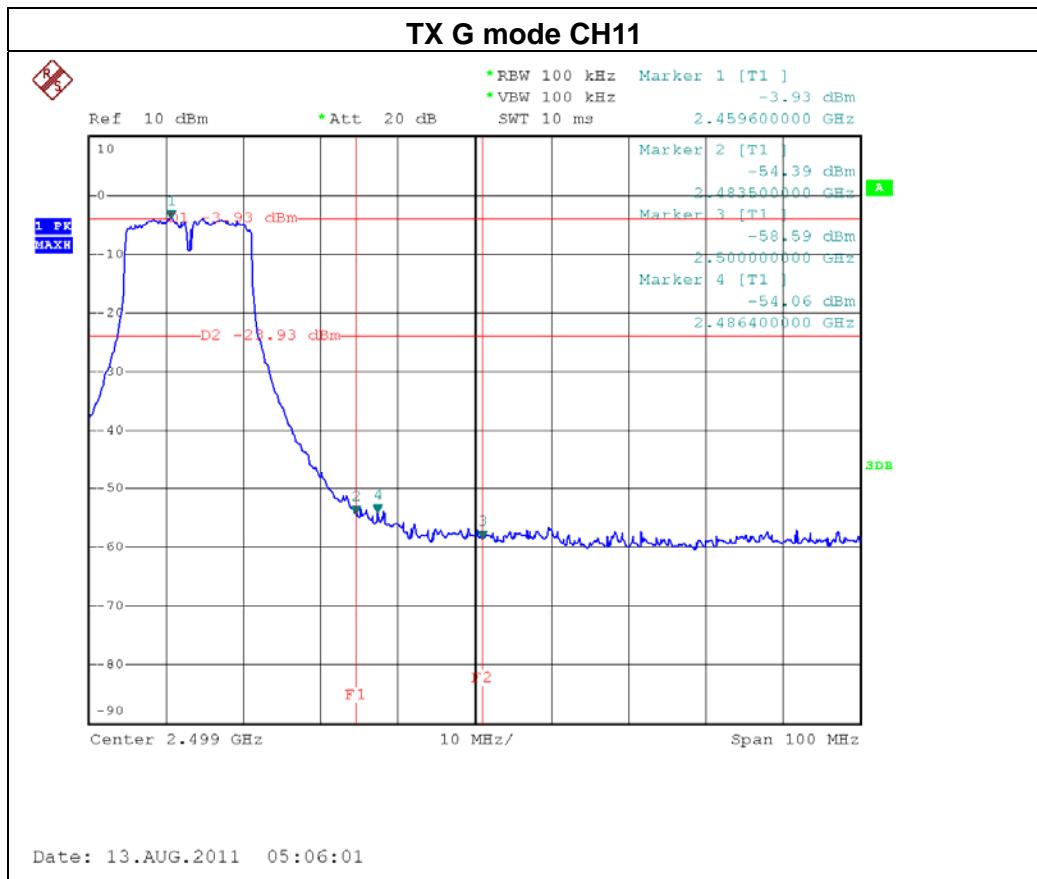
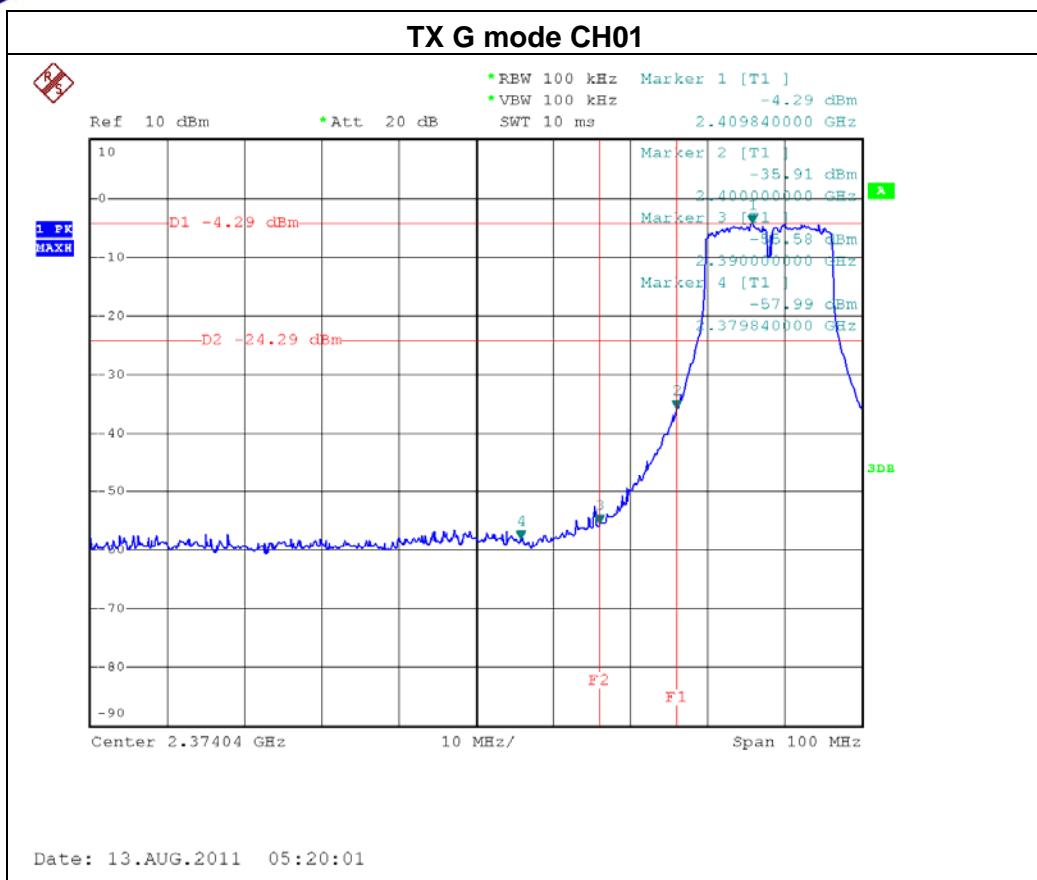


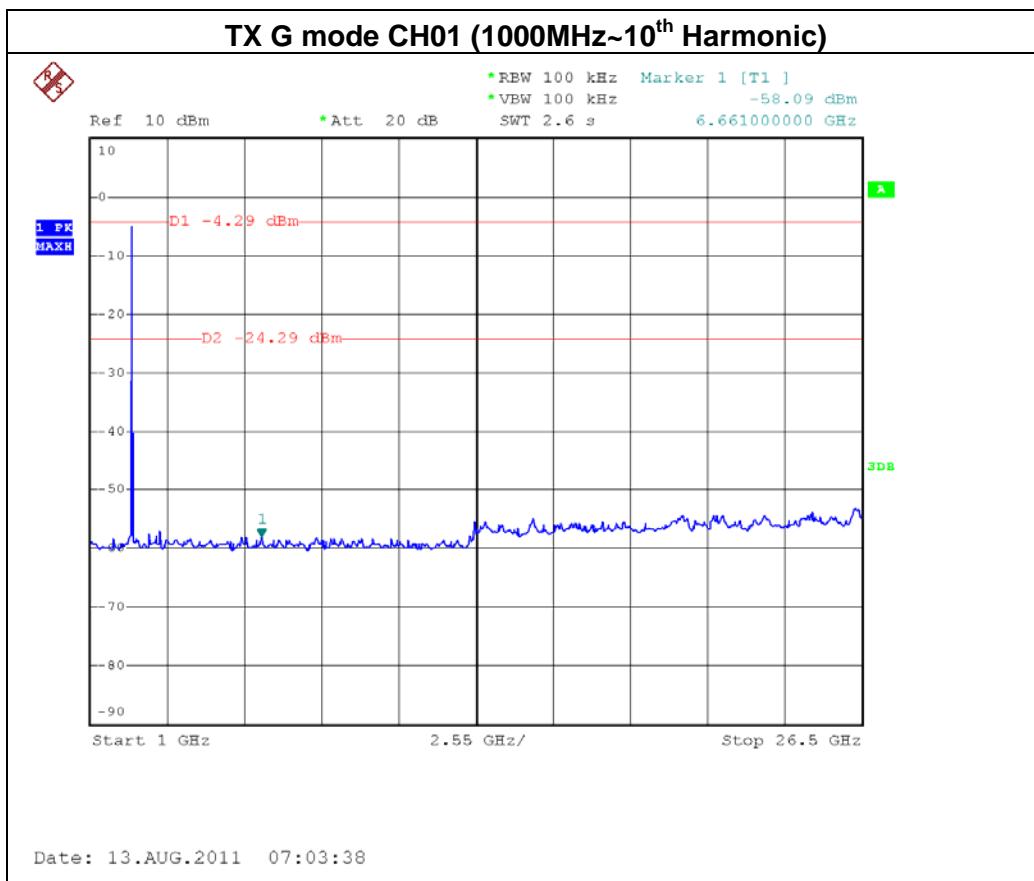
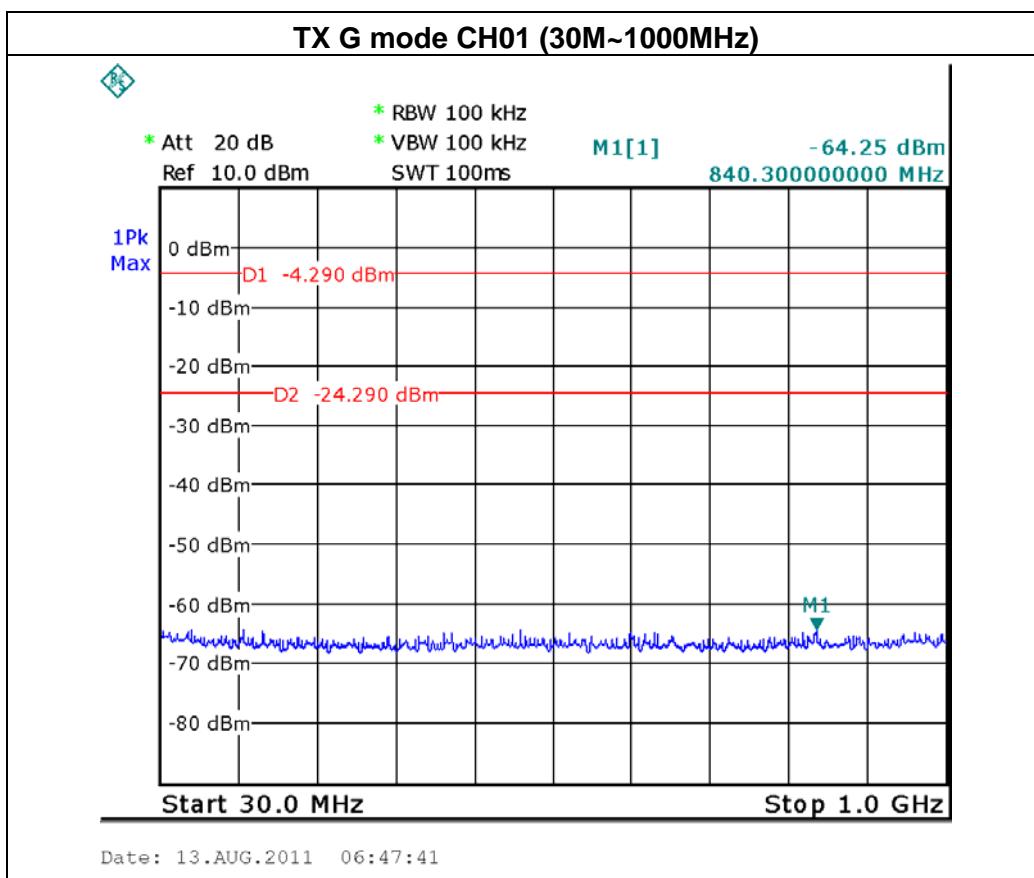


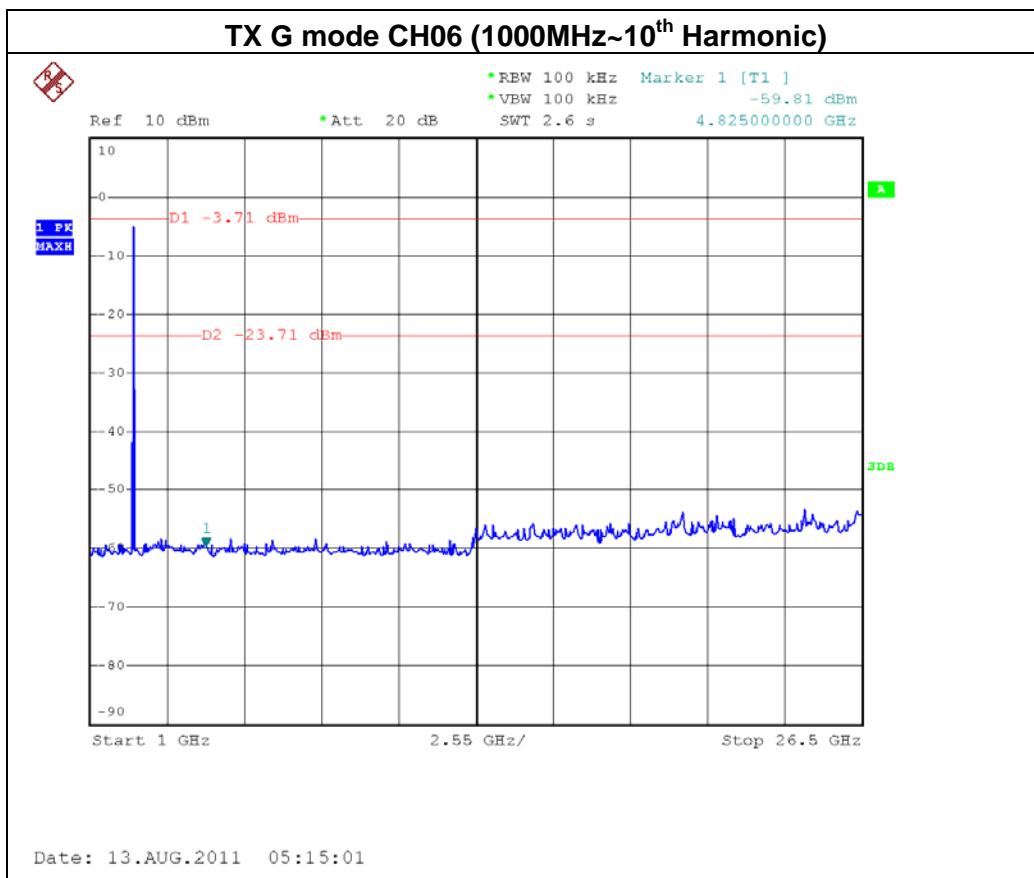
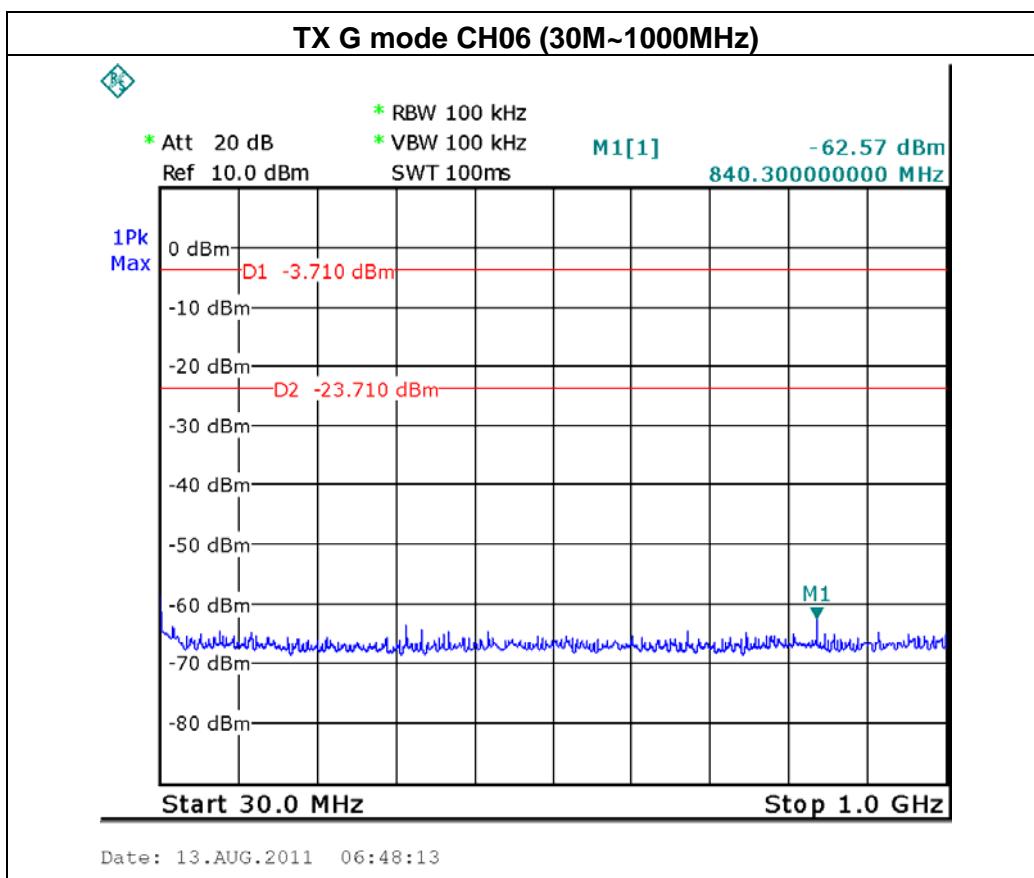


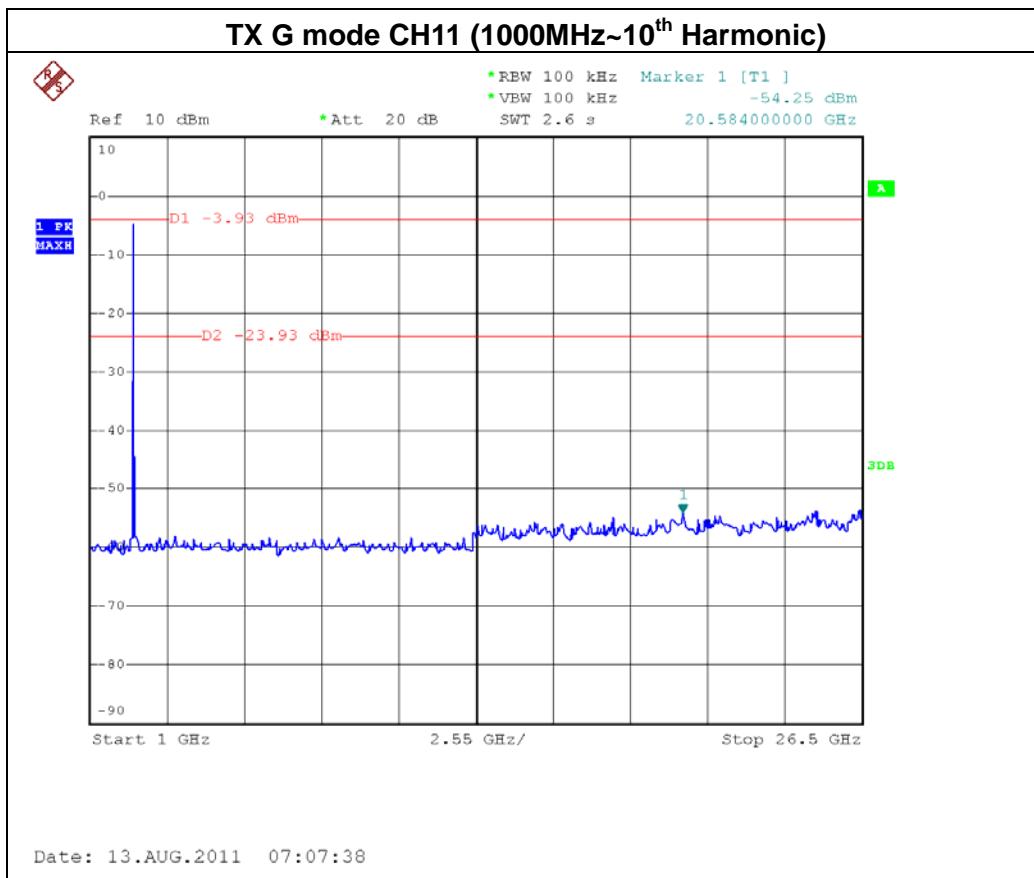
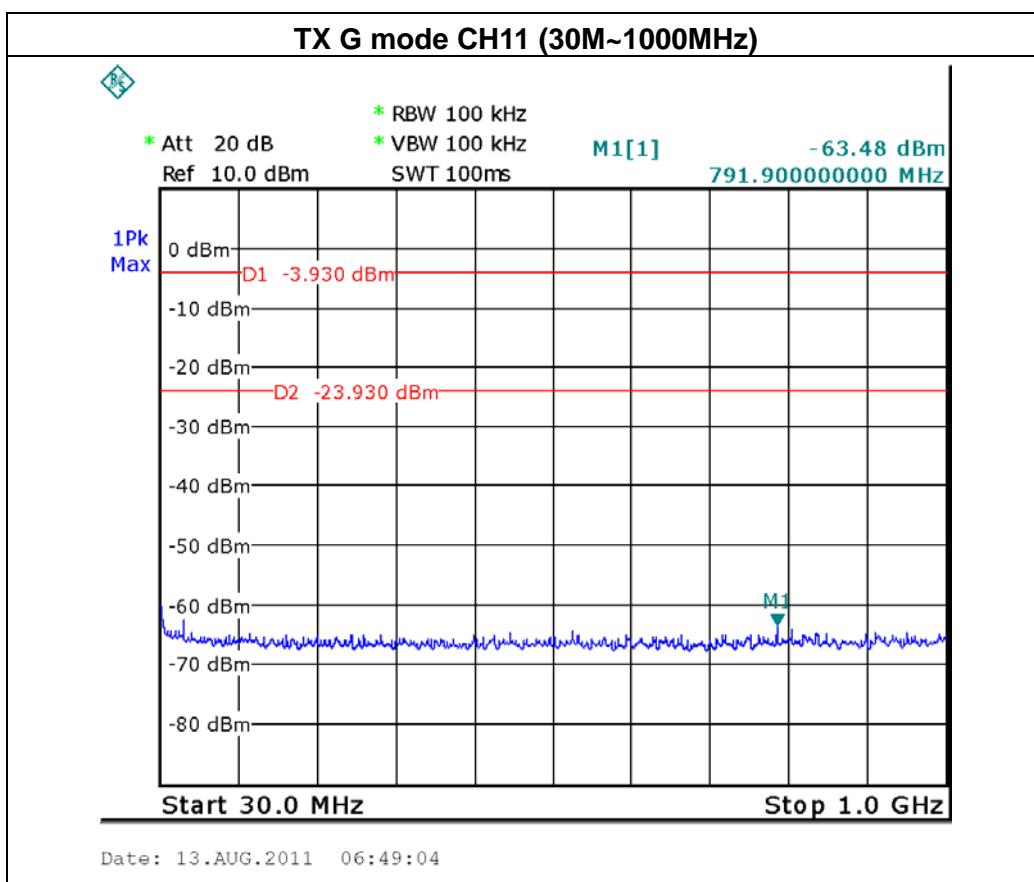
EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE / CH01, CH06 , CH11		

Channel of Worst Data: CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2390.00	-55.58	2486.40	-54.06
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			











EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11 ANT1		

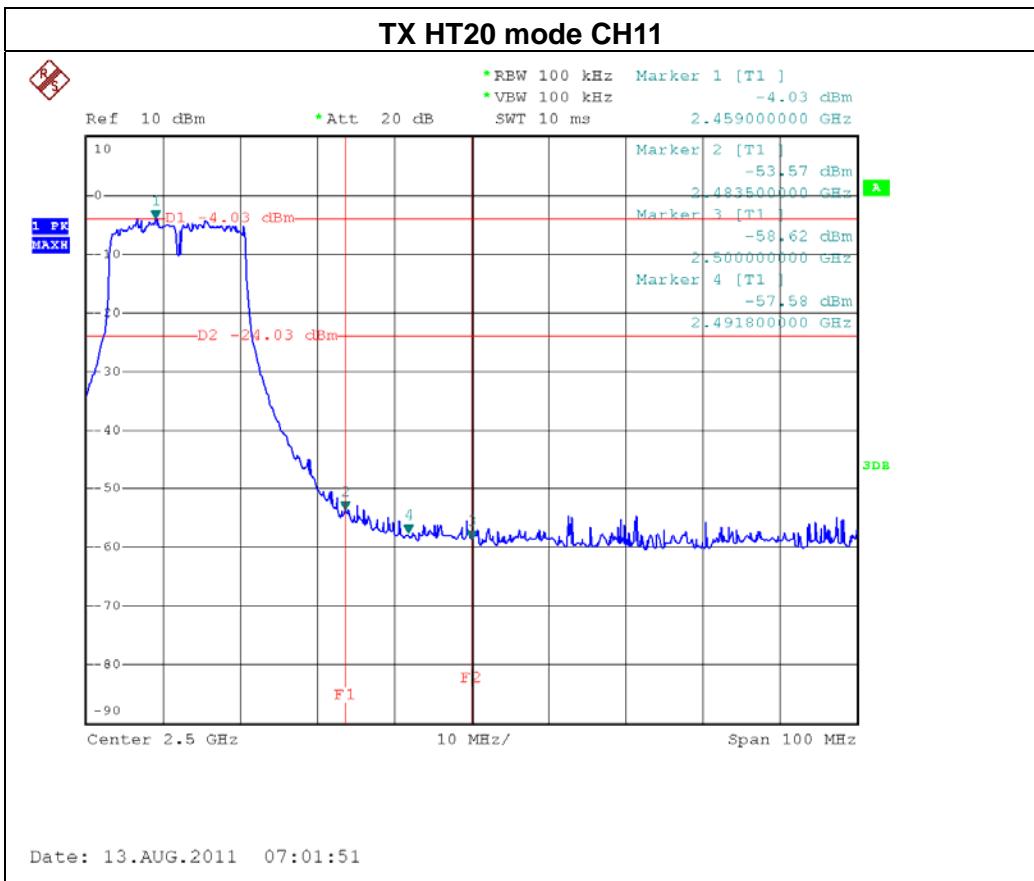
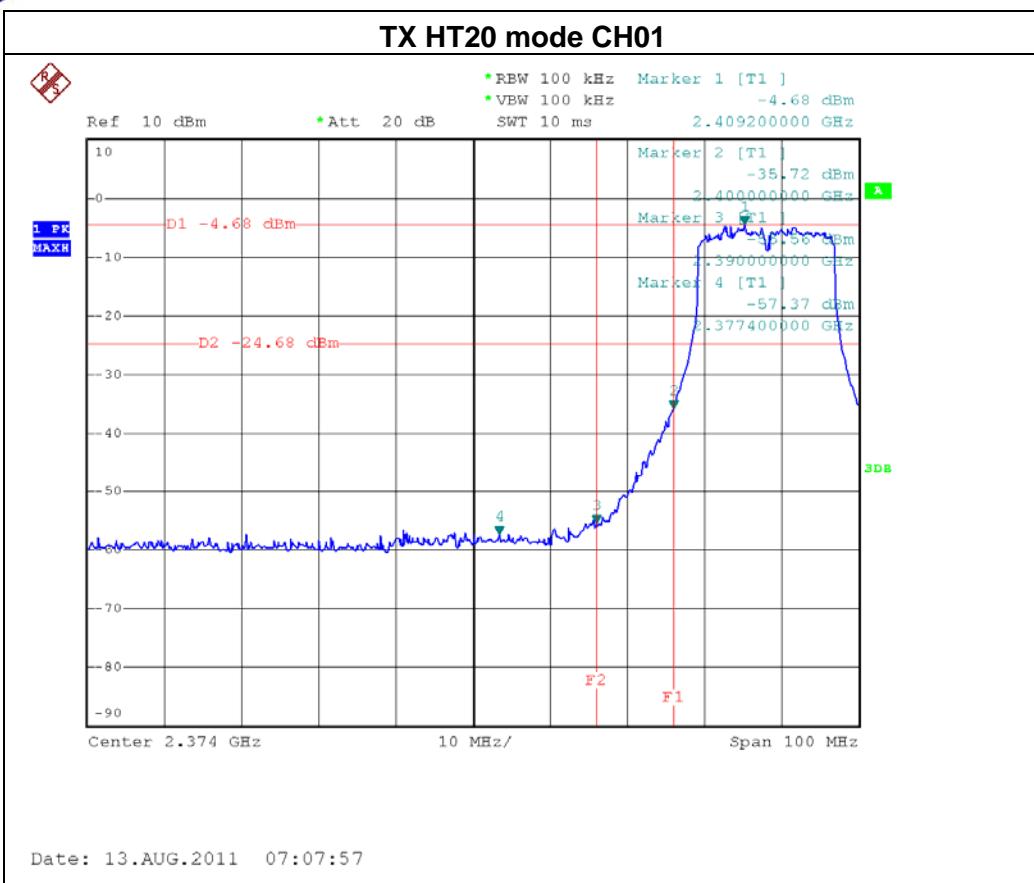
Channel of Worst Data: CH11

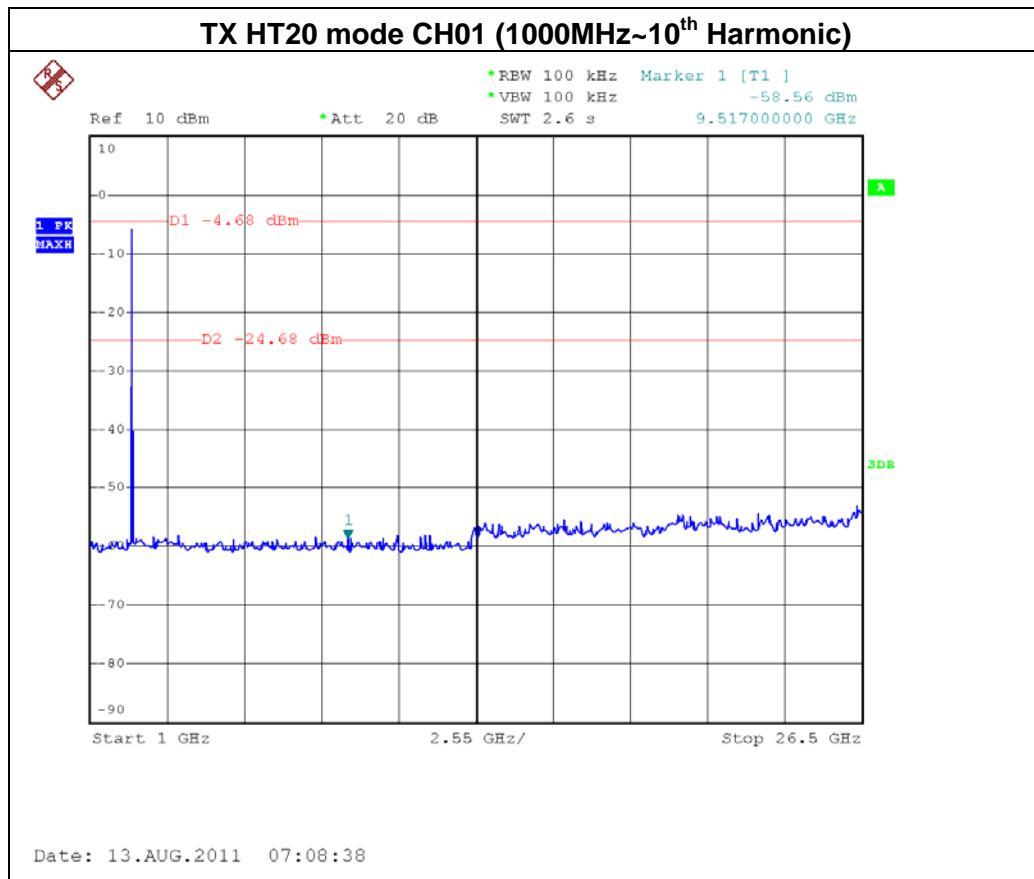
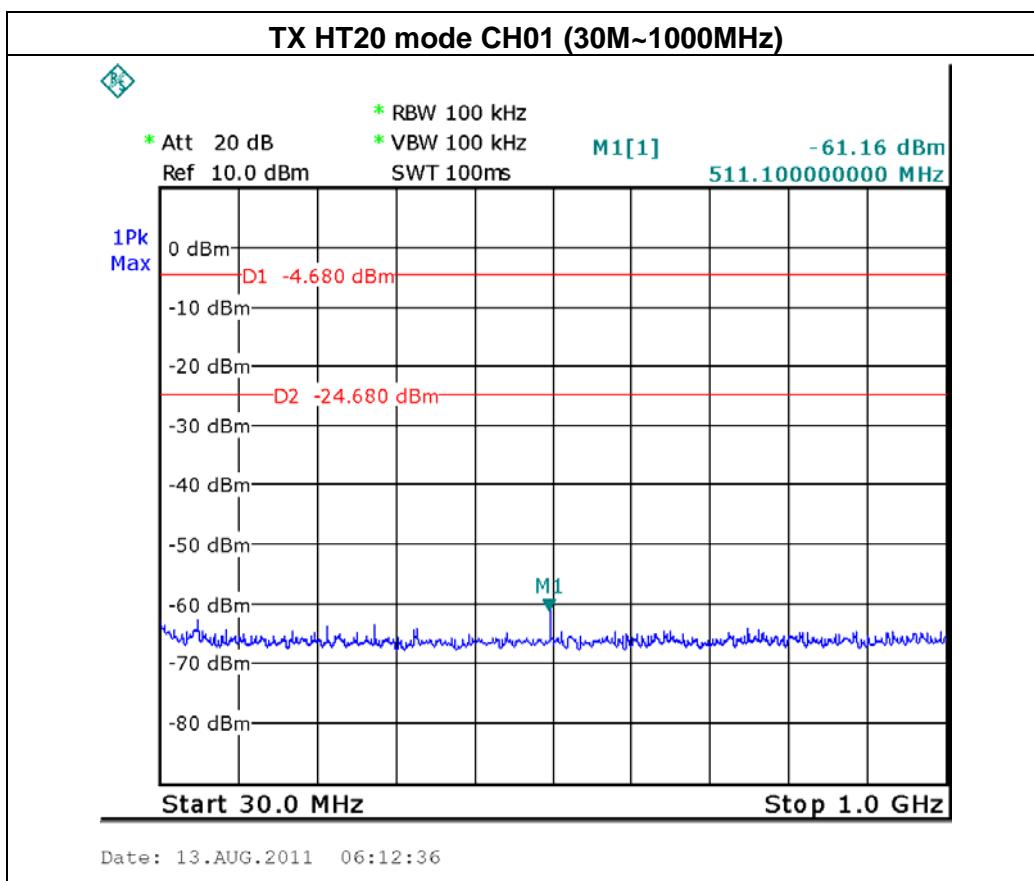
The max. radio frequency power in any 100kHz bandwidth outside the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.
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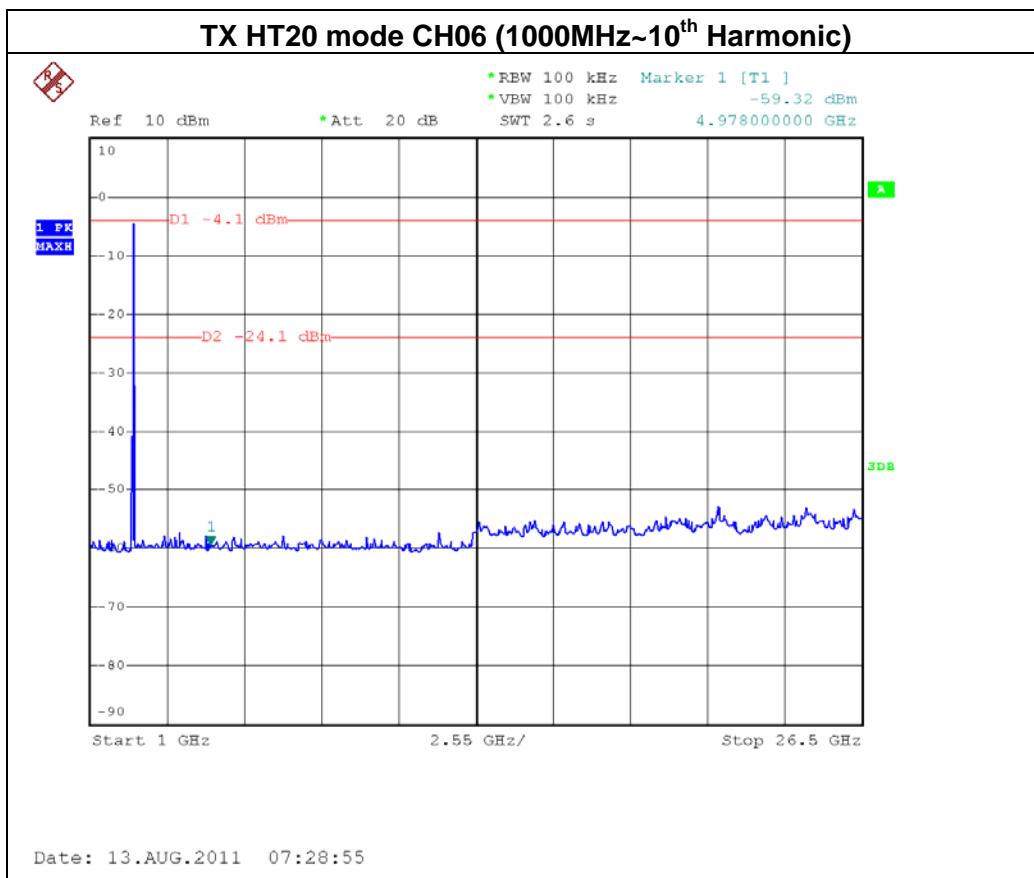
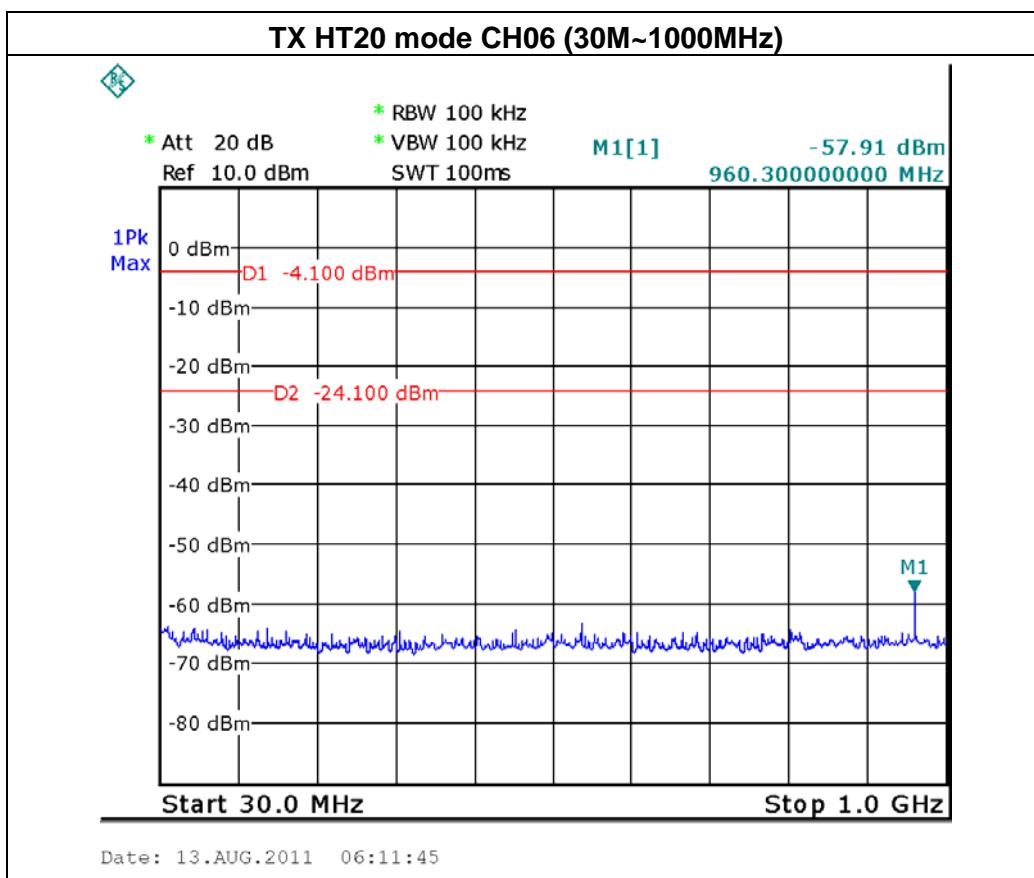
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2390.00	-55.56	2483.50	-53.57

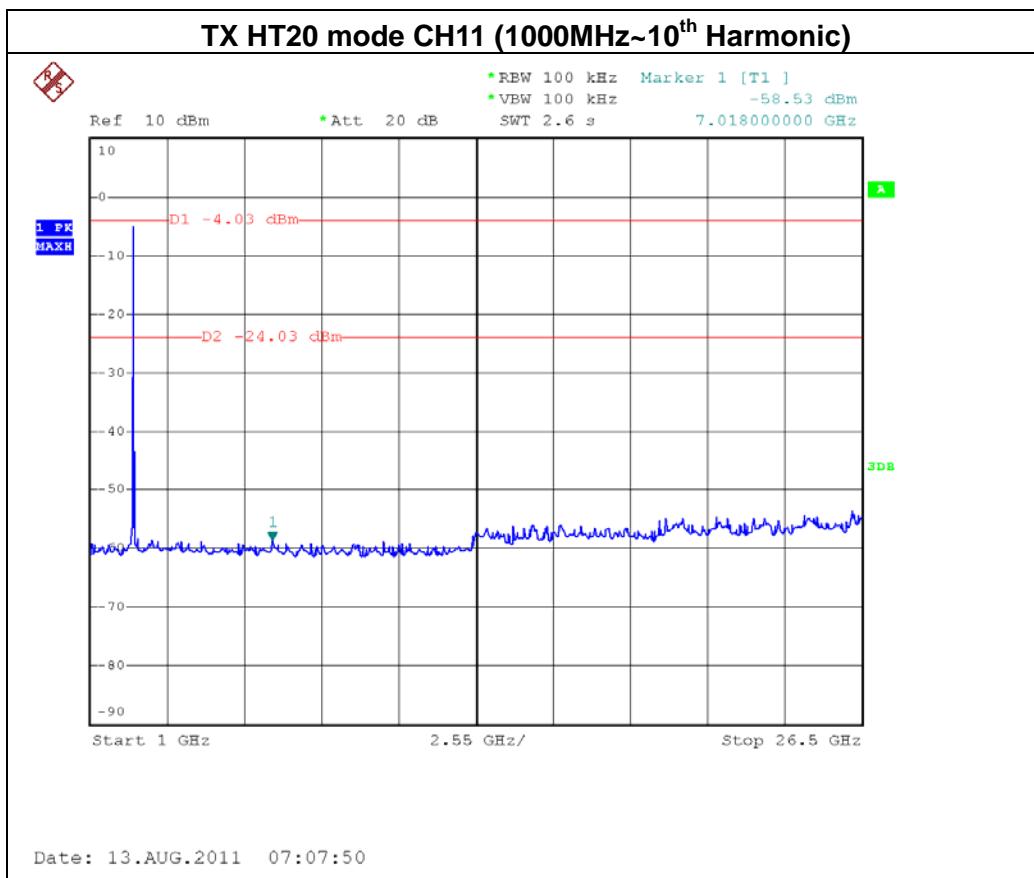
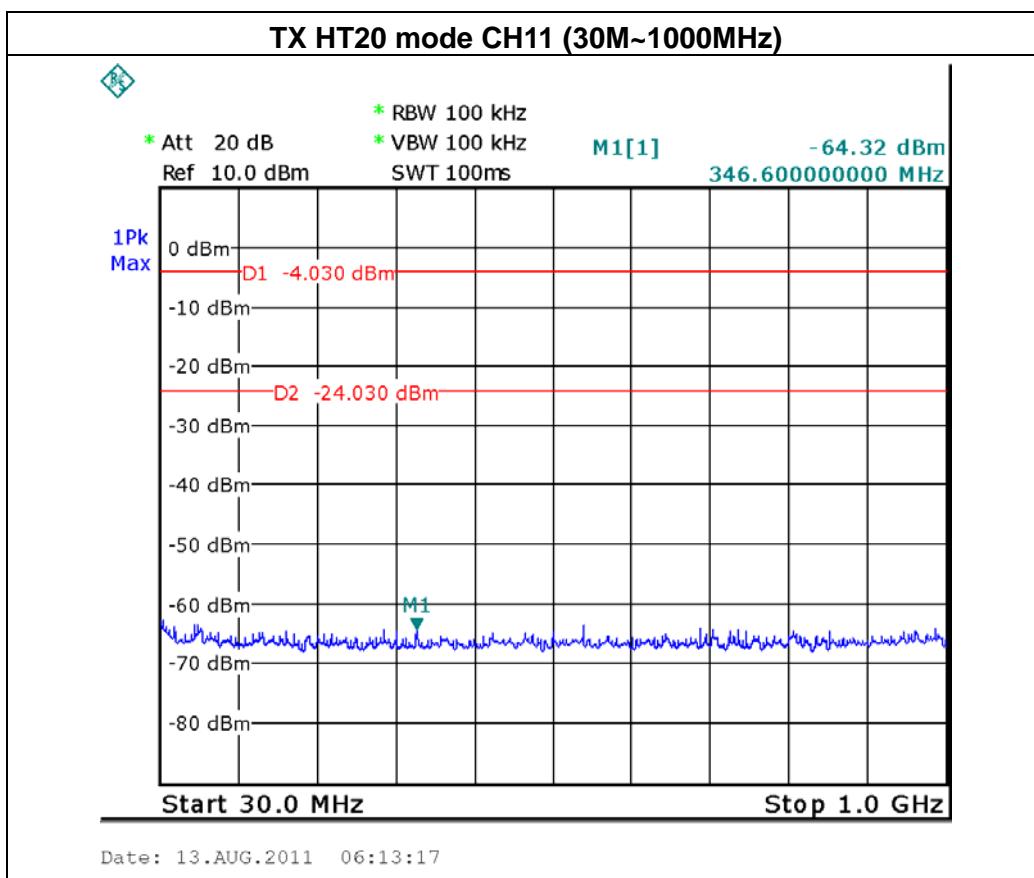
Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.











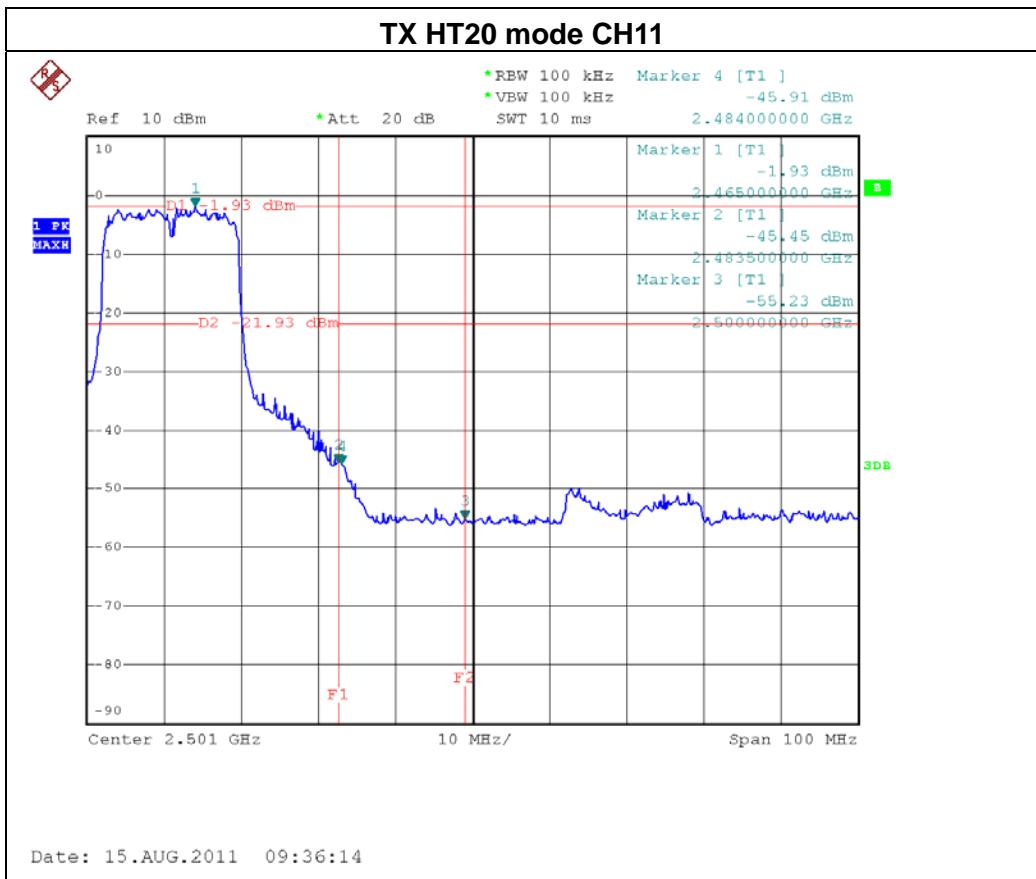
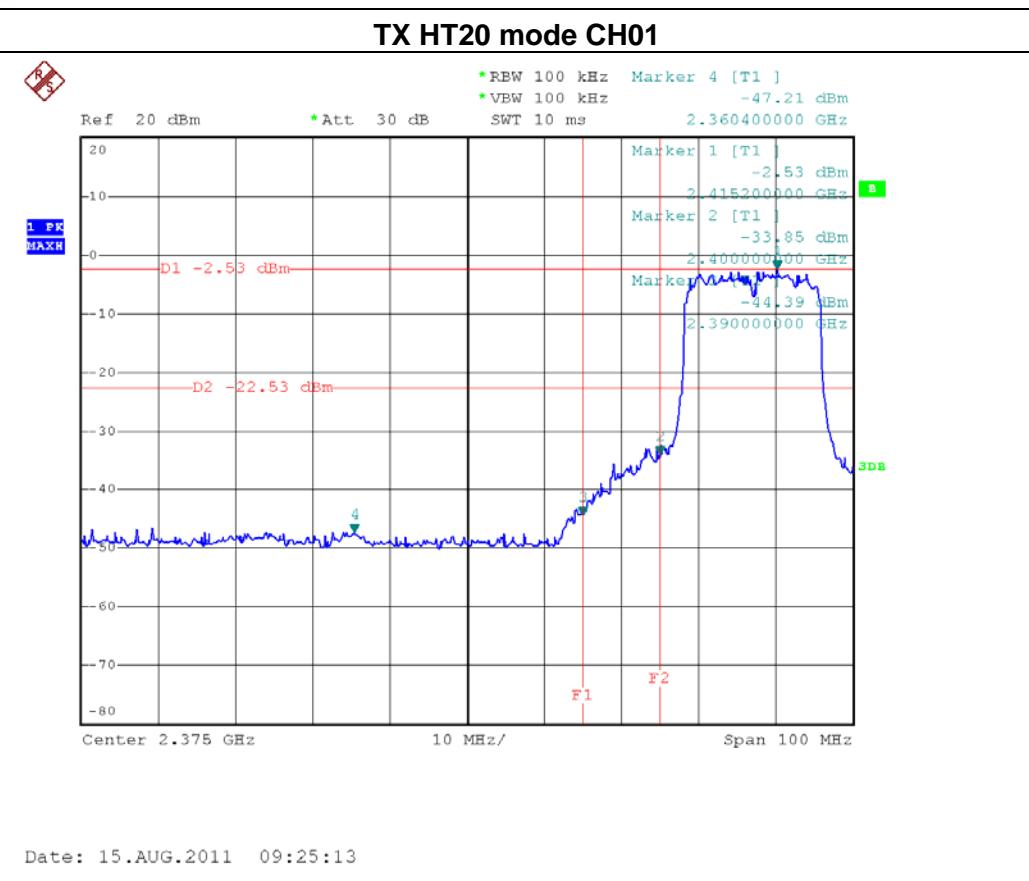
EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11 ANT2 (Worst Case)		

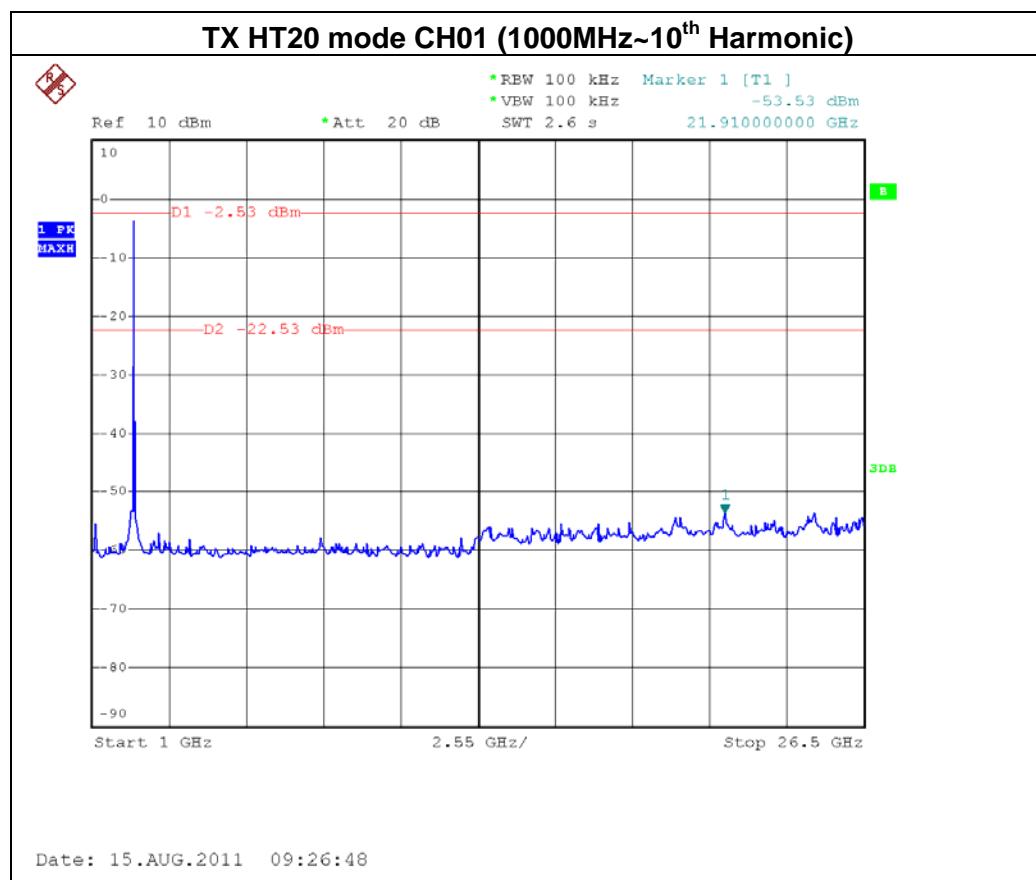
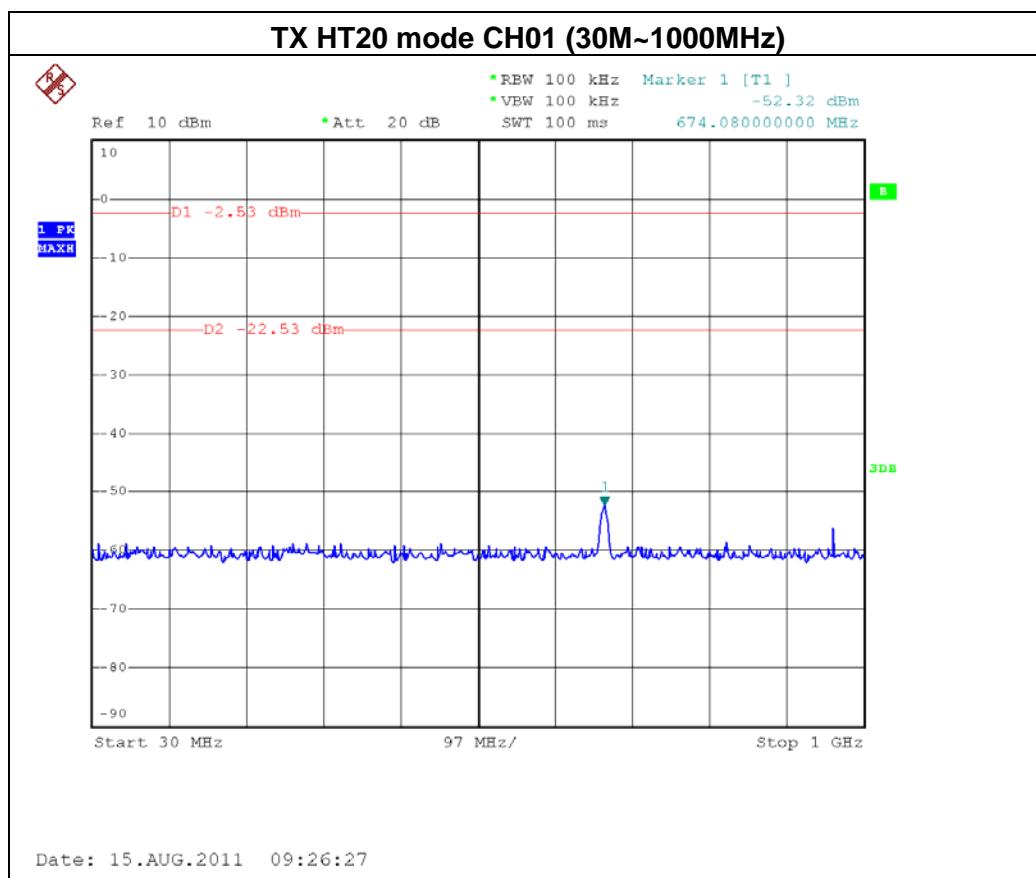
Channel of Worst Data: CH01

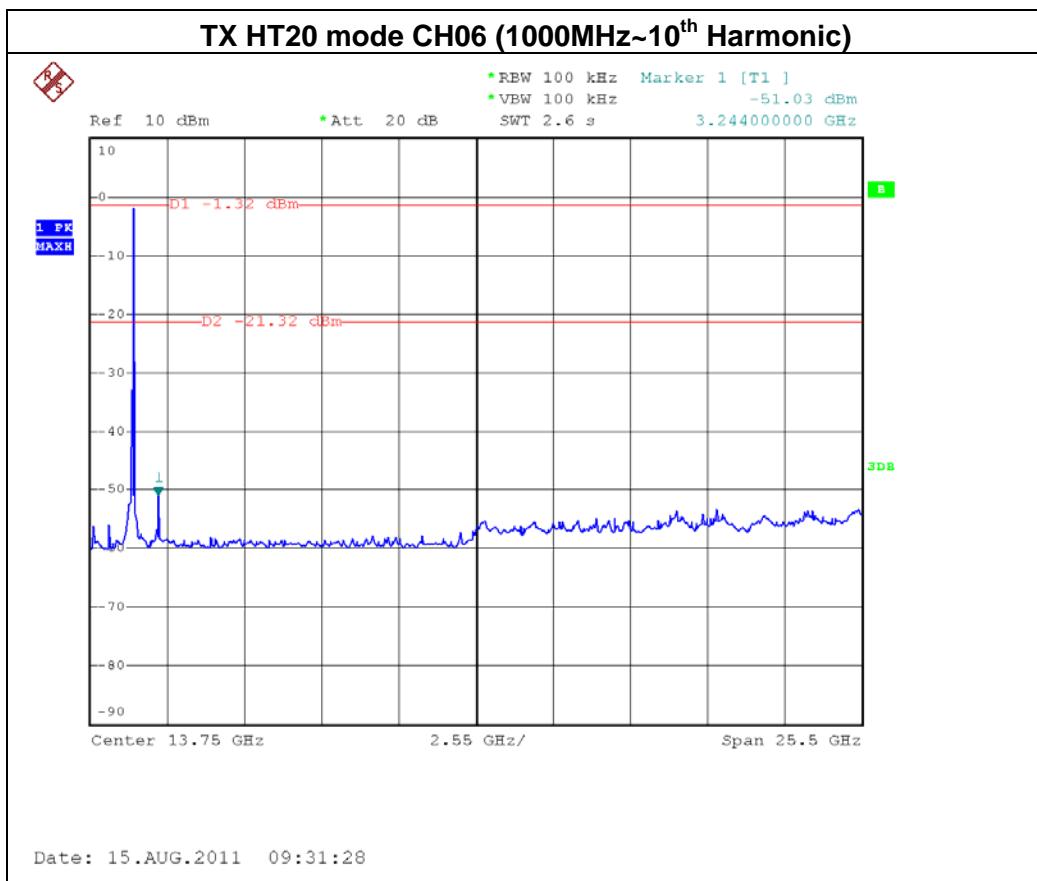
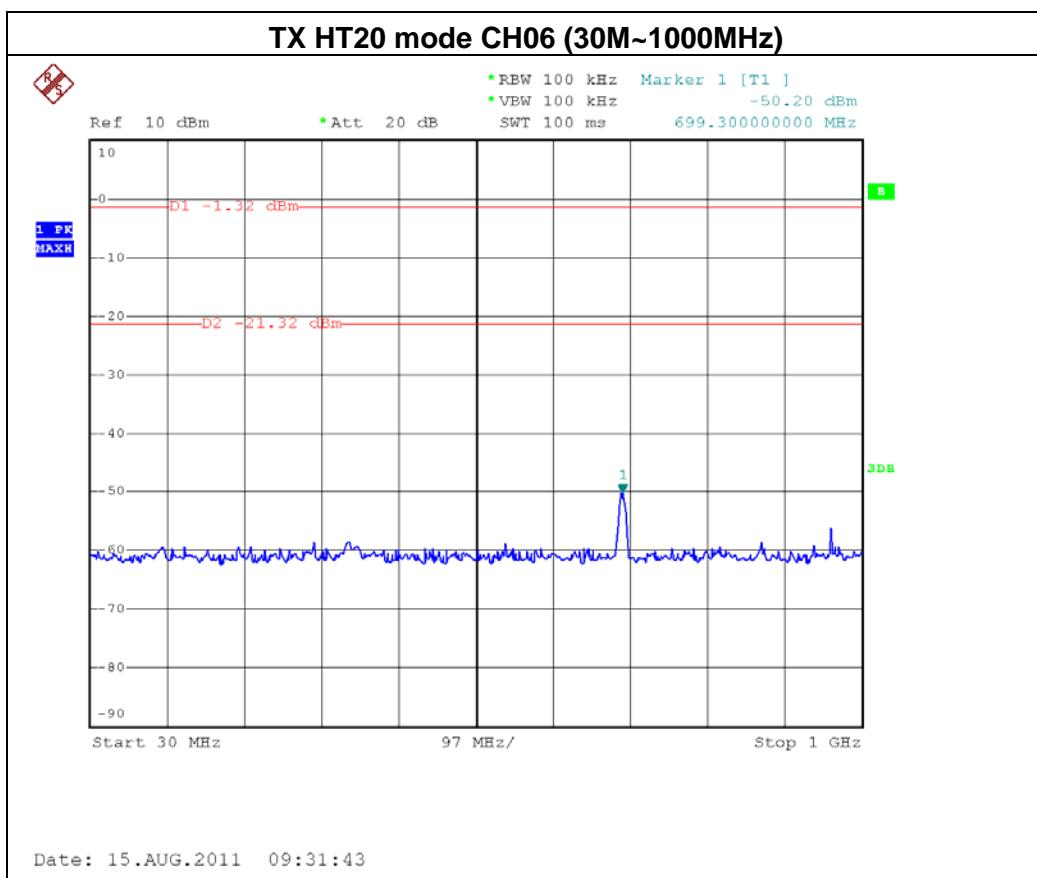
The max. radio frequency power in any 100kHz bandwidth outside the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2390.00	-44.39	2483.50	-45.45

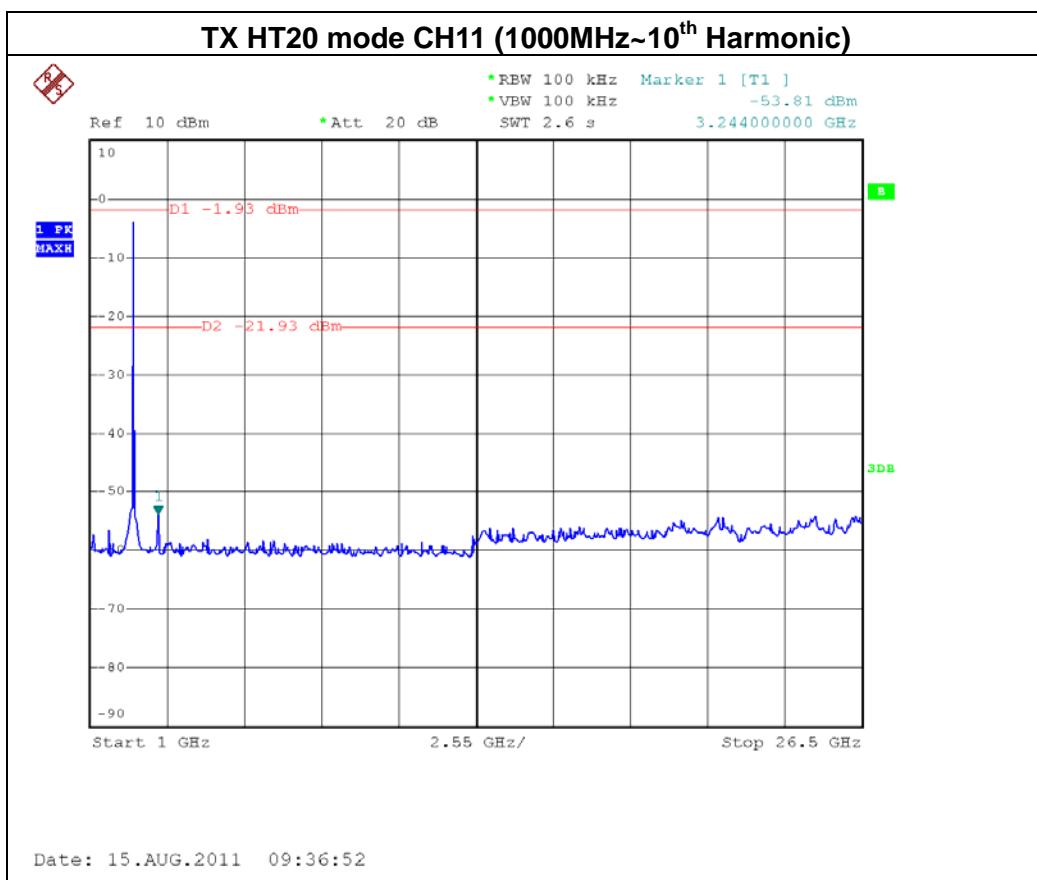
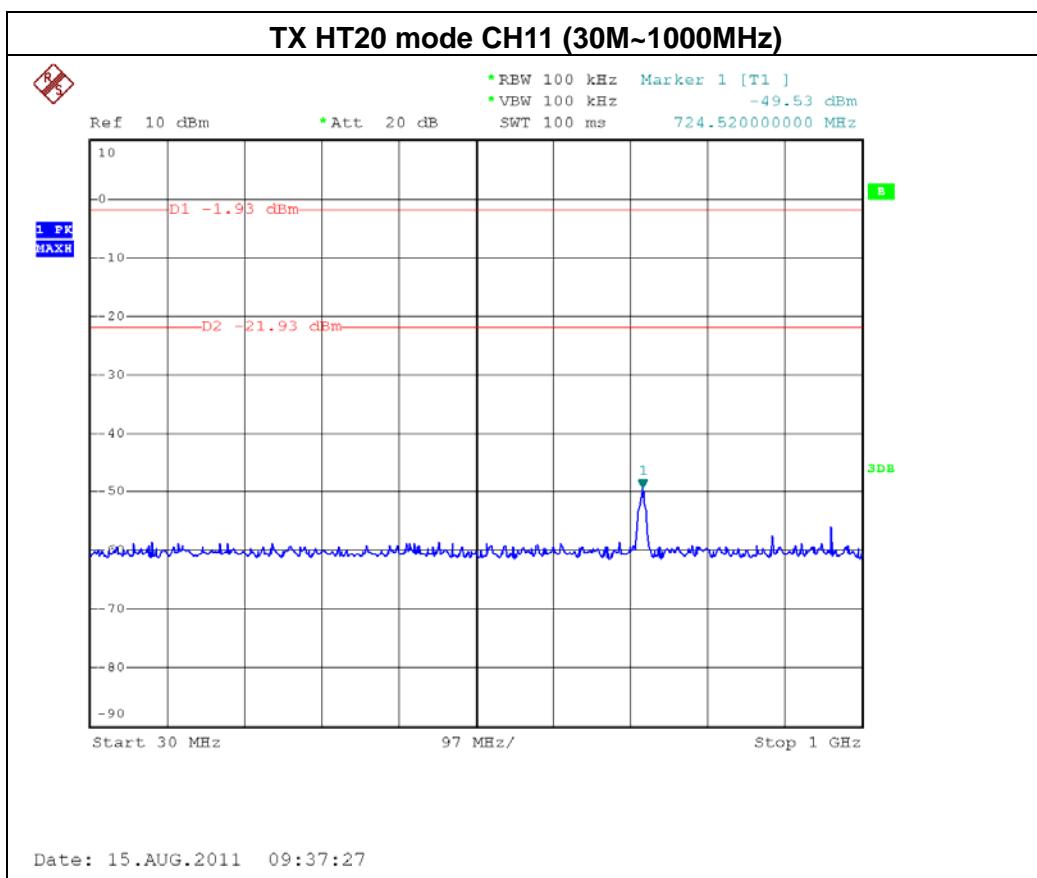
Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.











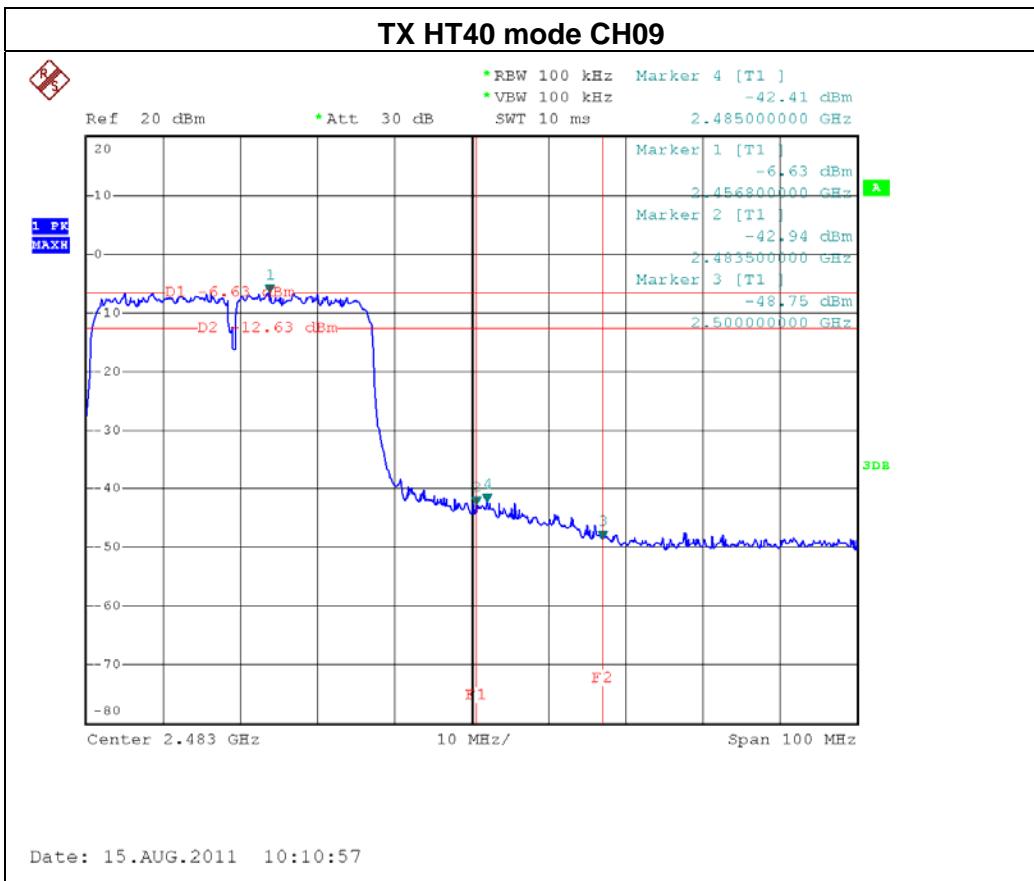
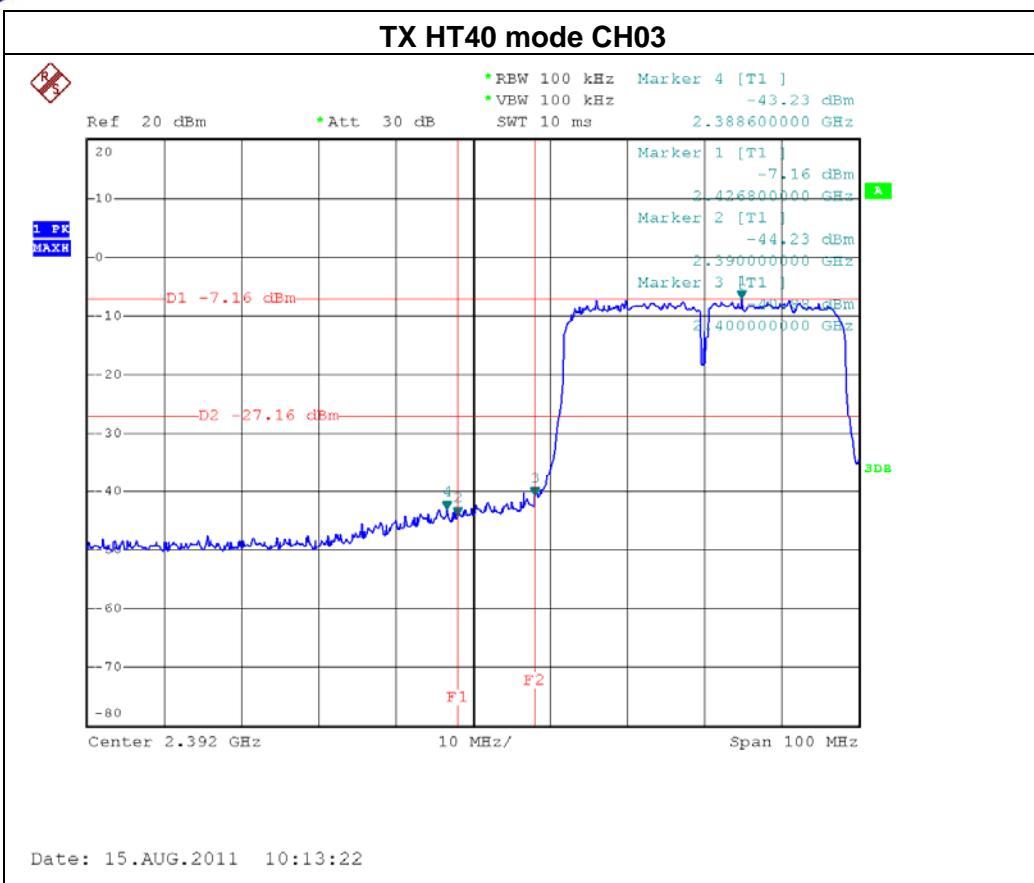
EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 ANT1		

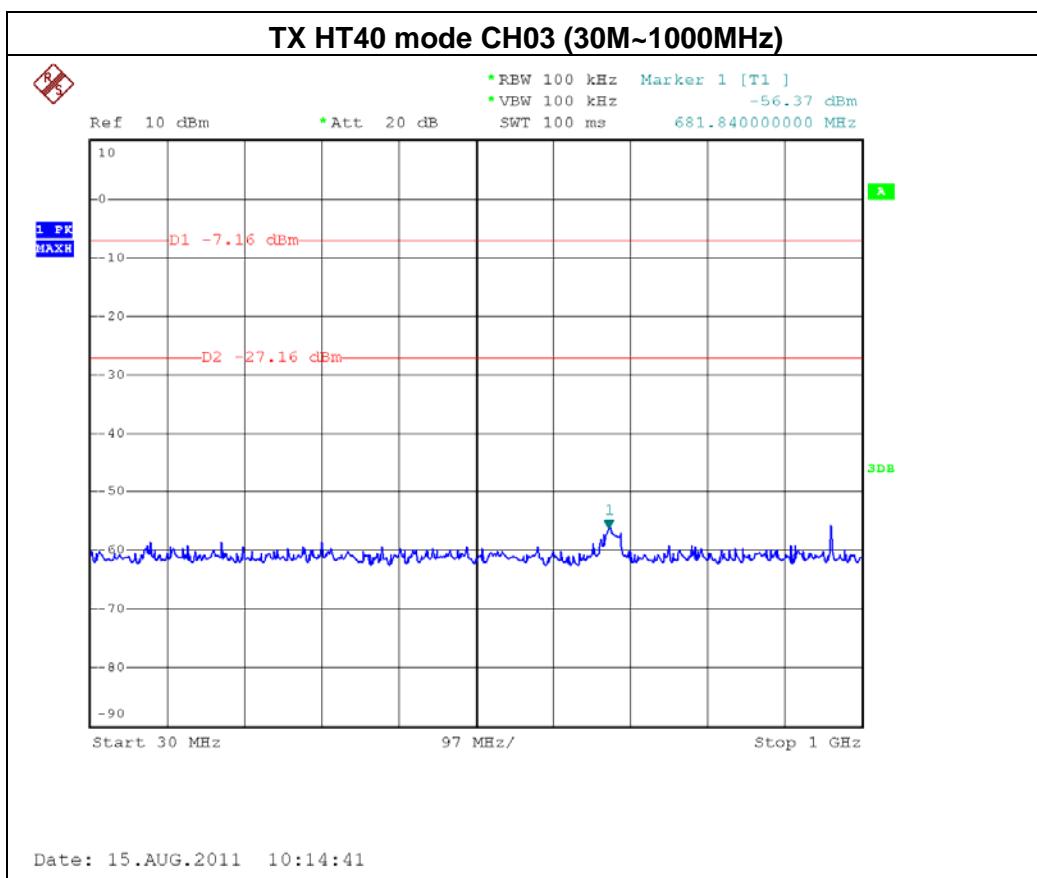
Channel of Worst Data: CH09

The max. radio frequency power in any 100kHz bandwidth outside the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2388.60	-43.23	2485.00	-42.41

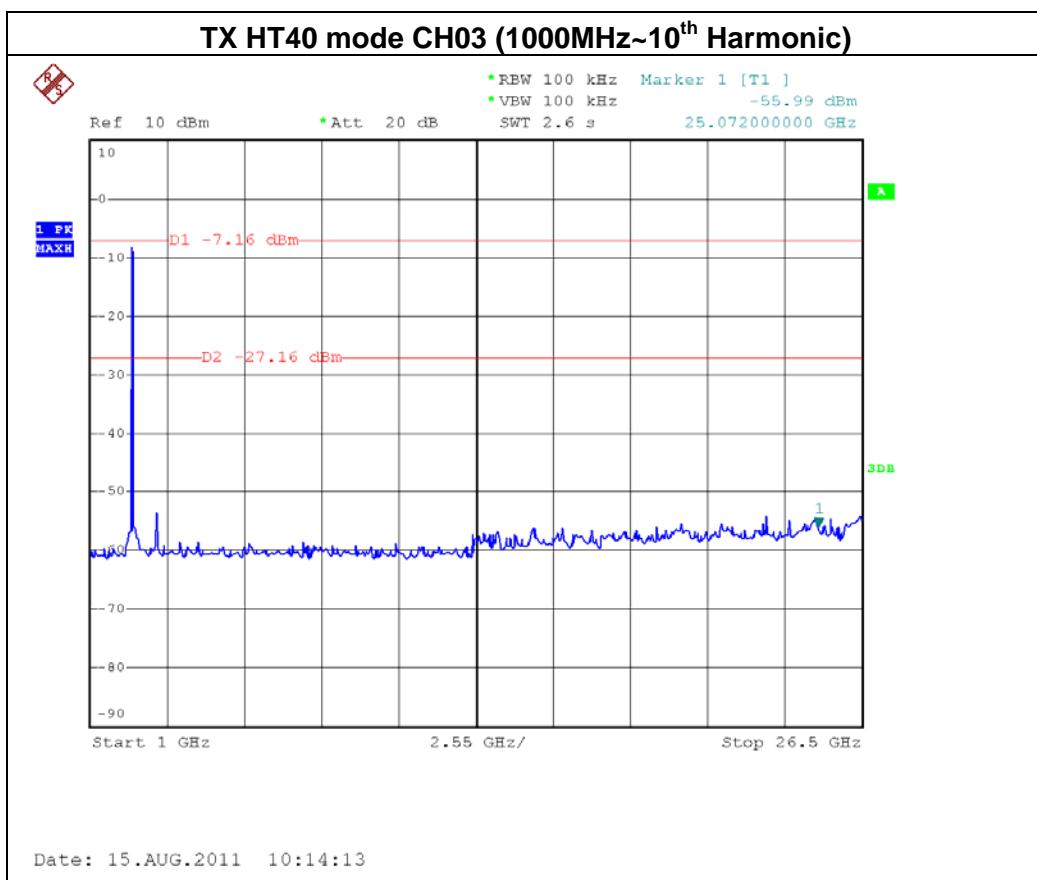
Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

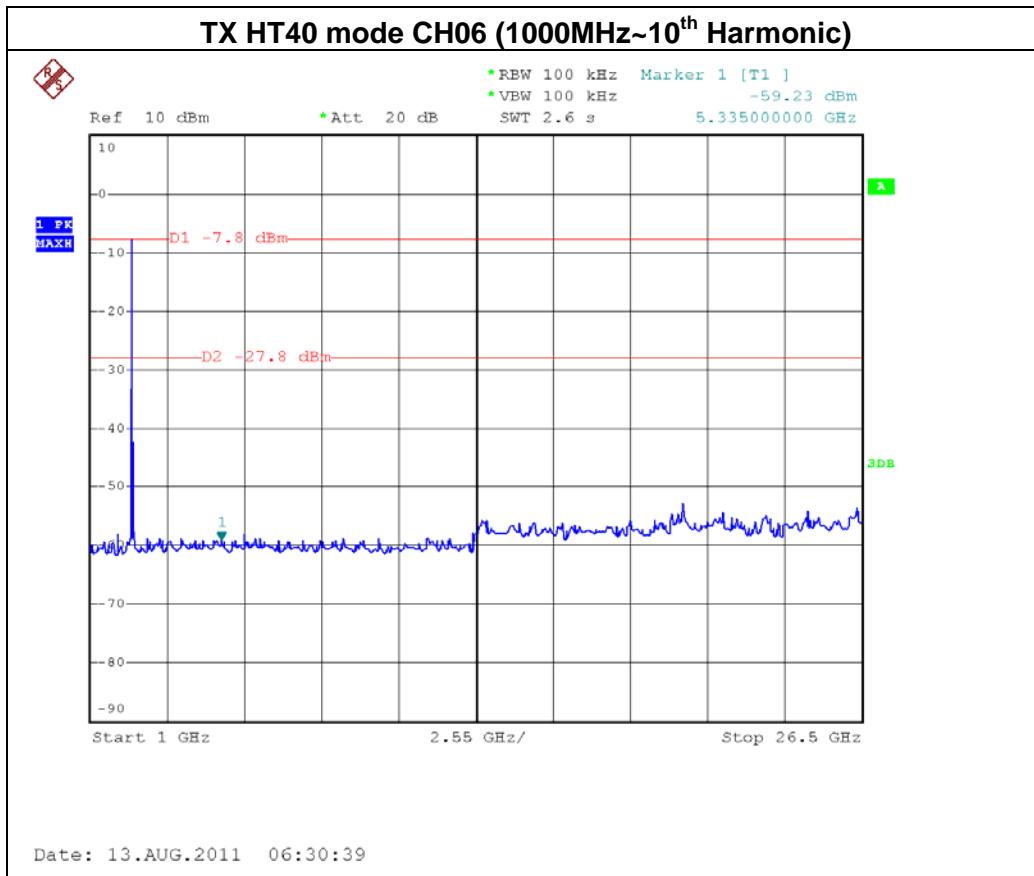
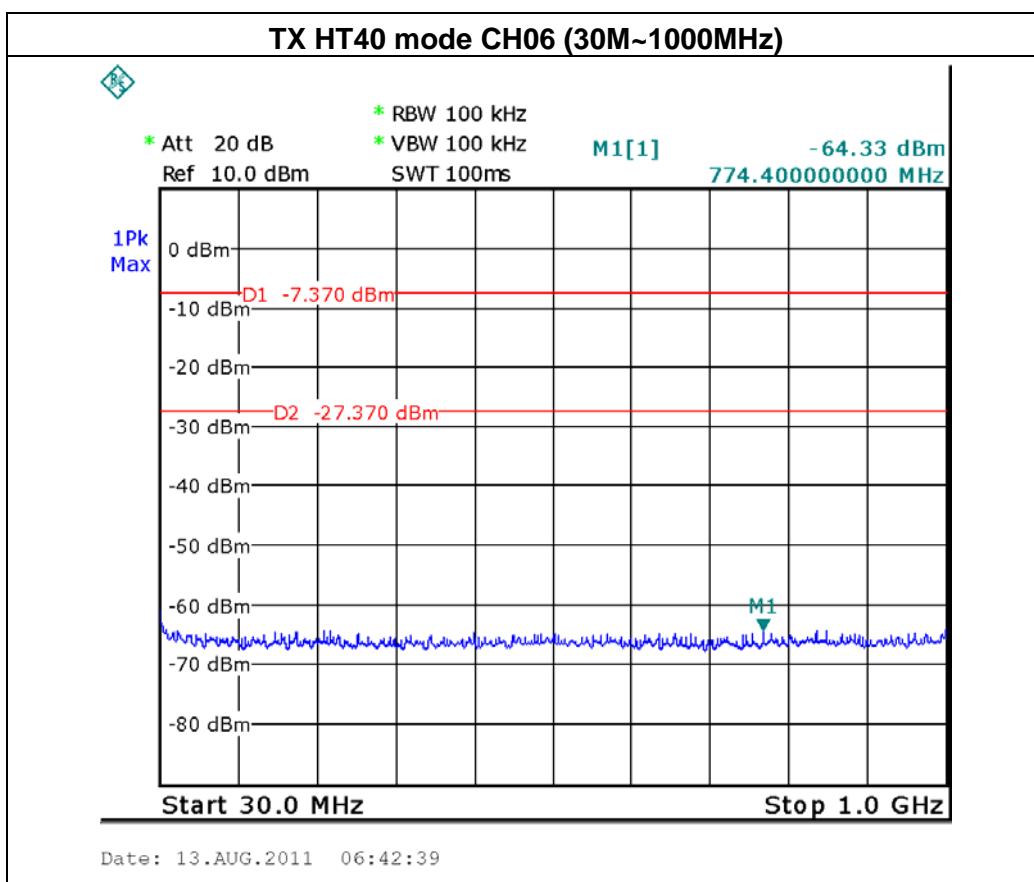


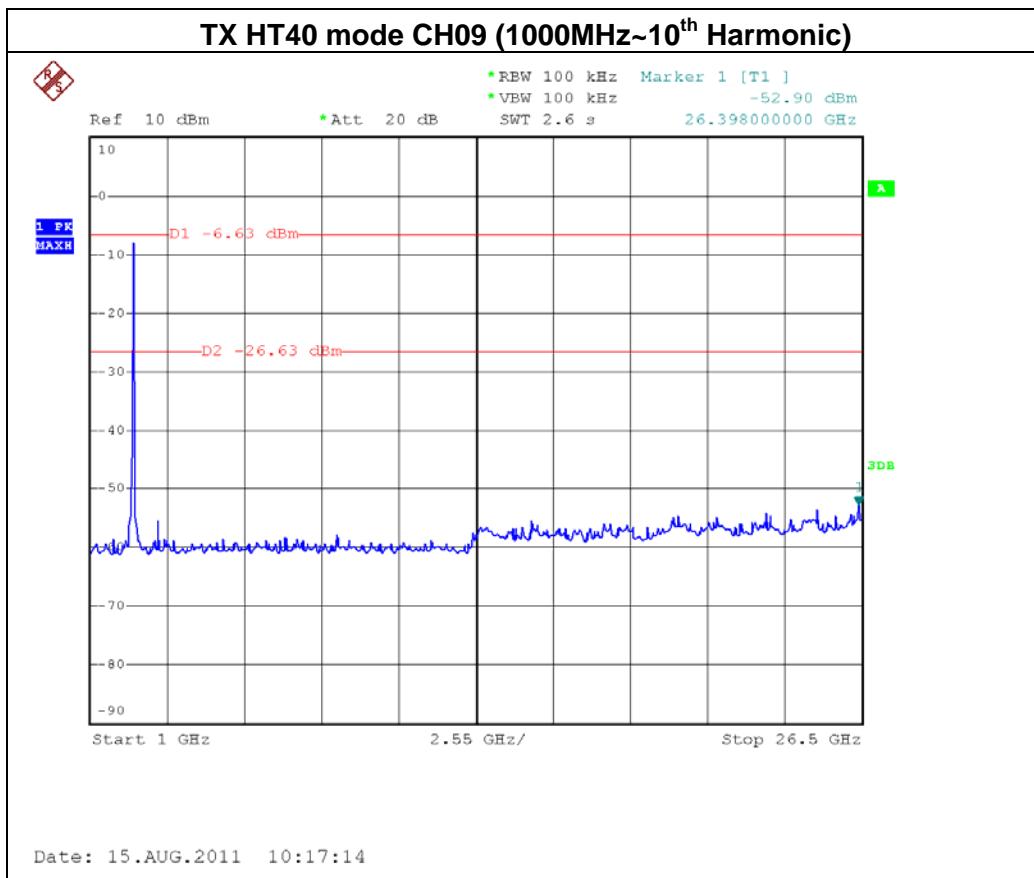
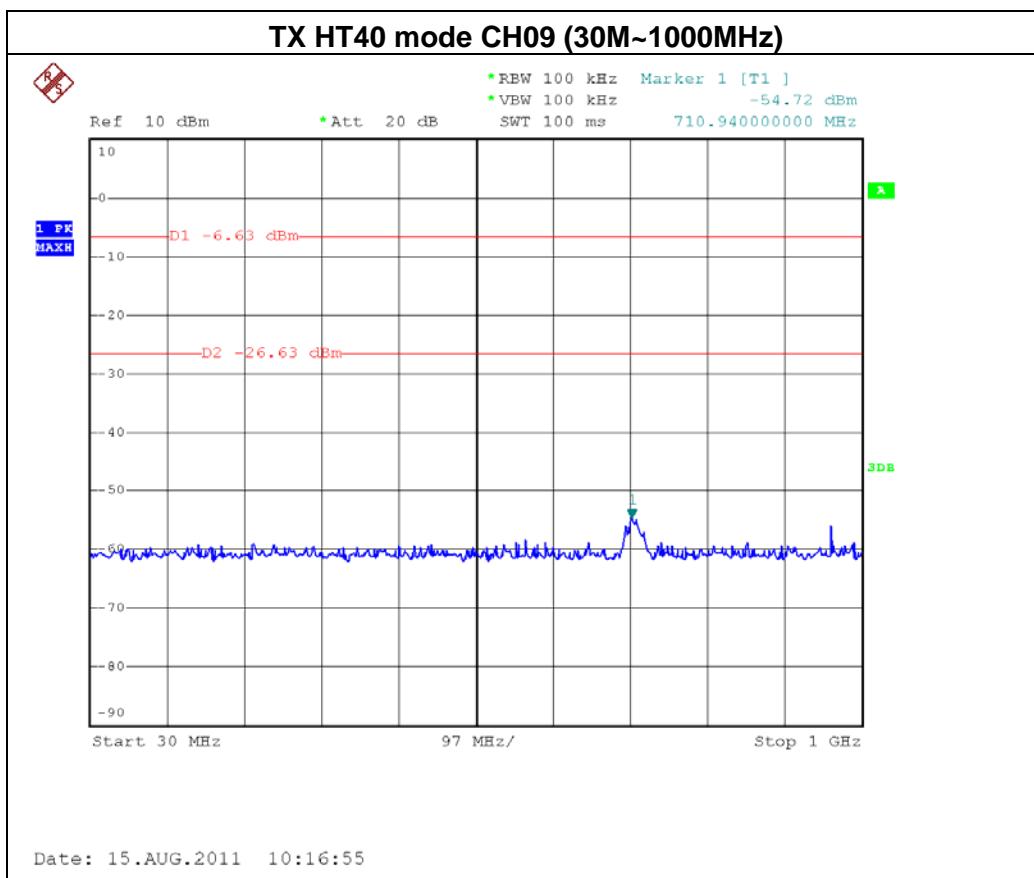


Date: 15.AUG.2011 10:14:41



Date: 15.AUG.2011 10:14:13

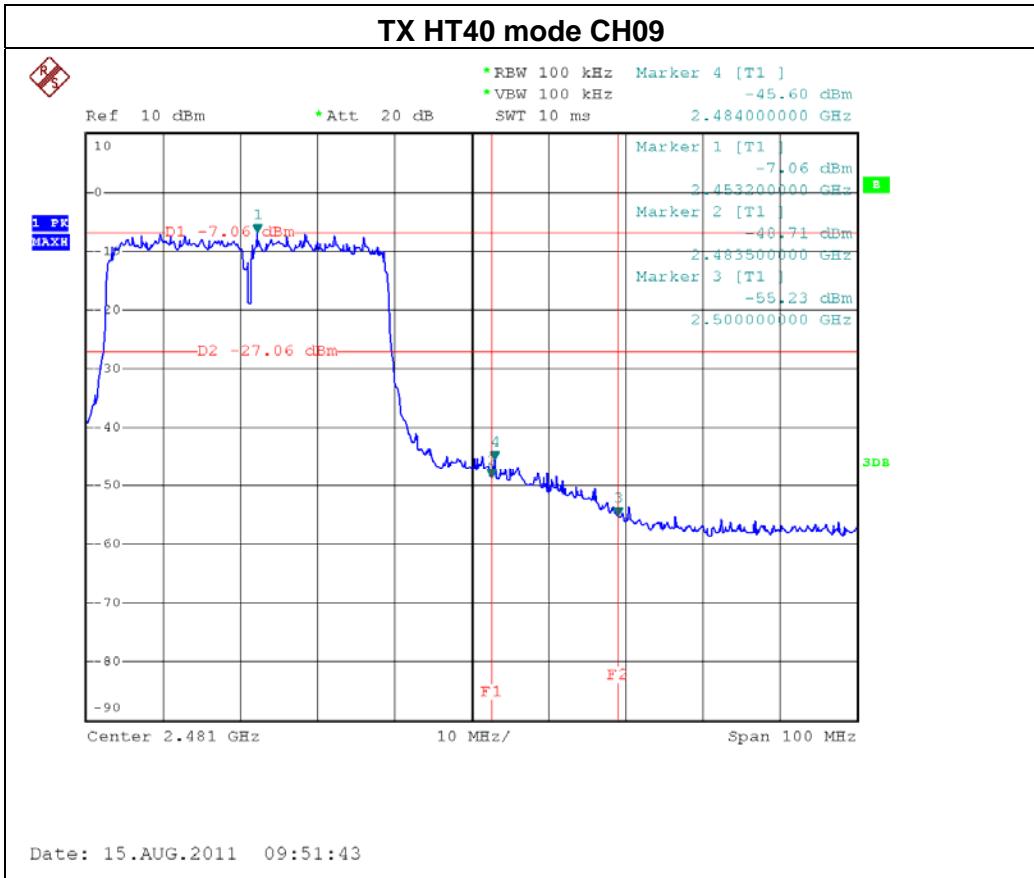
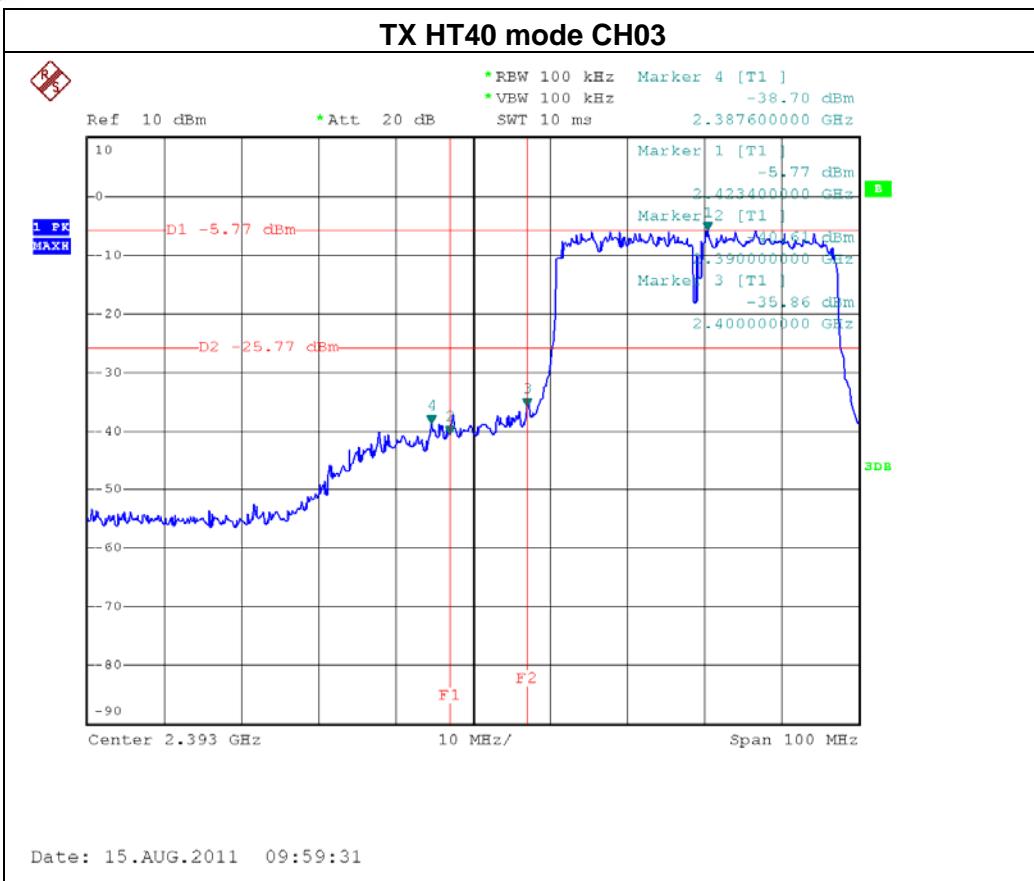


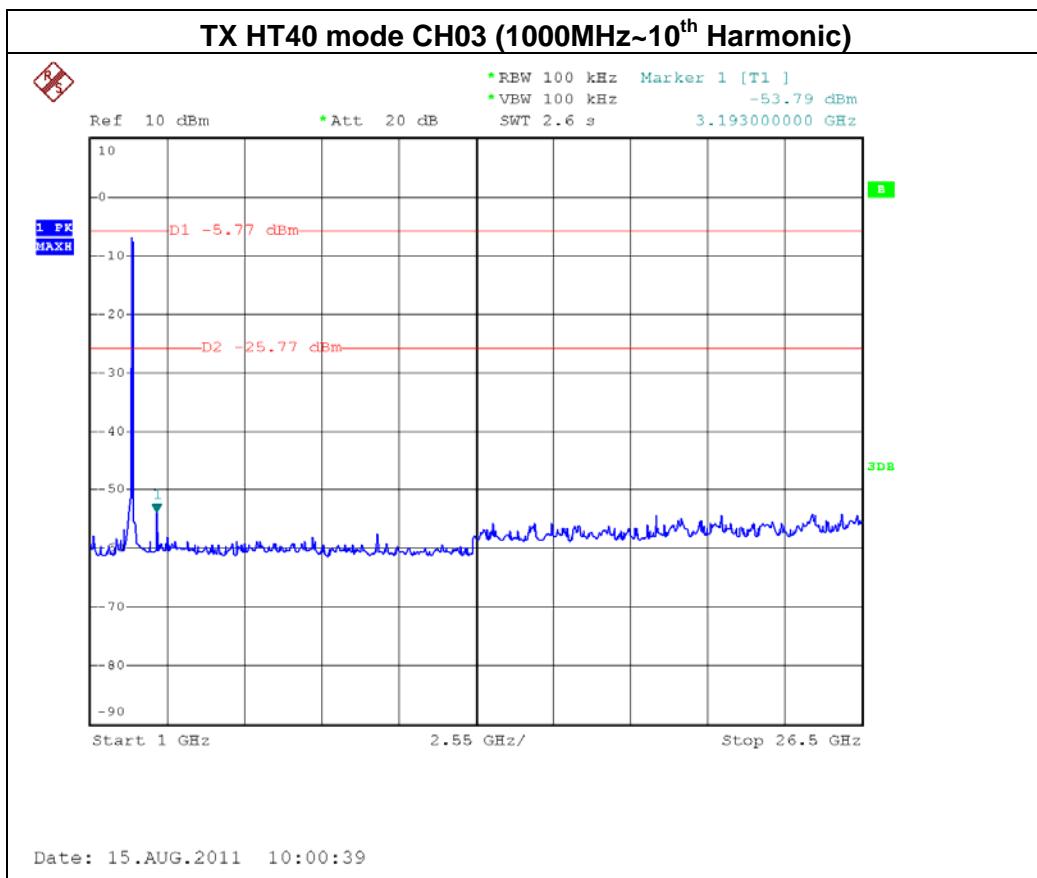
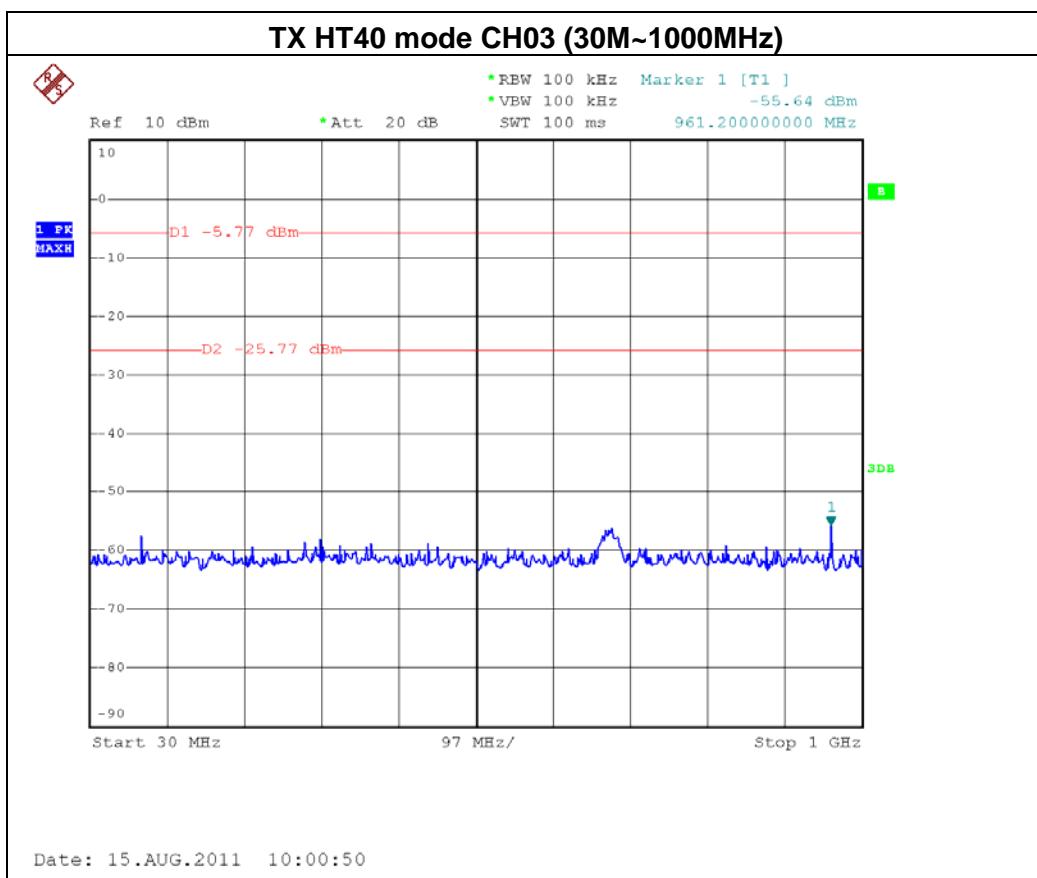


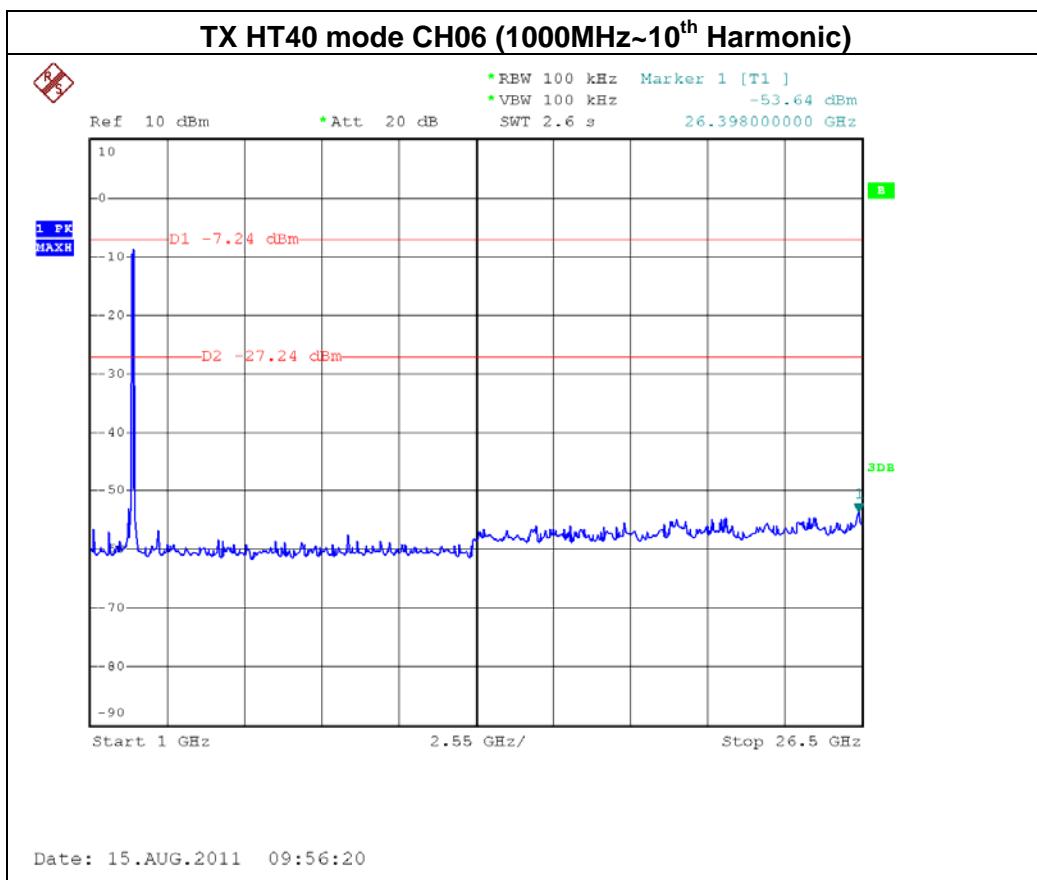
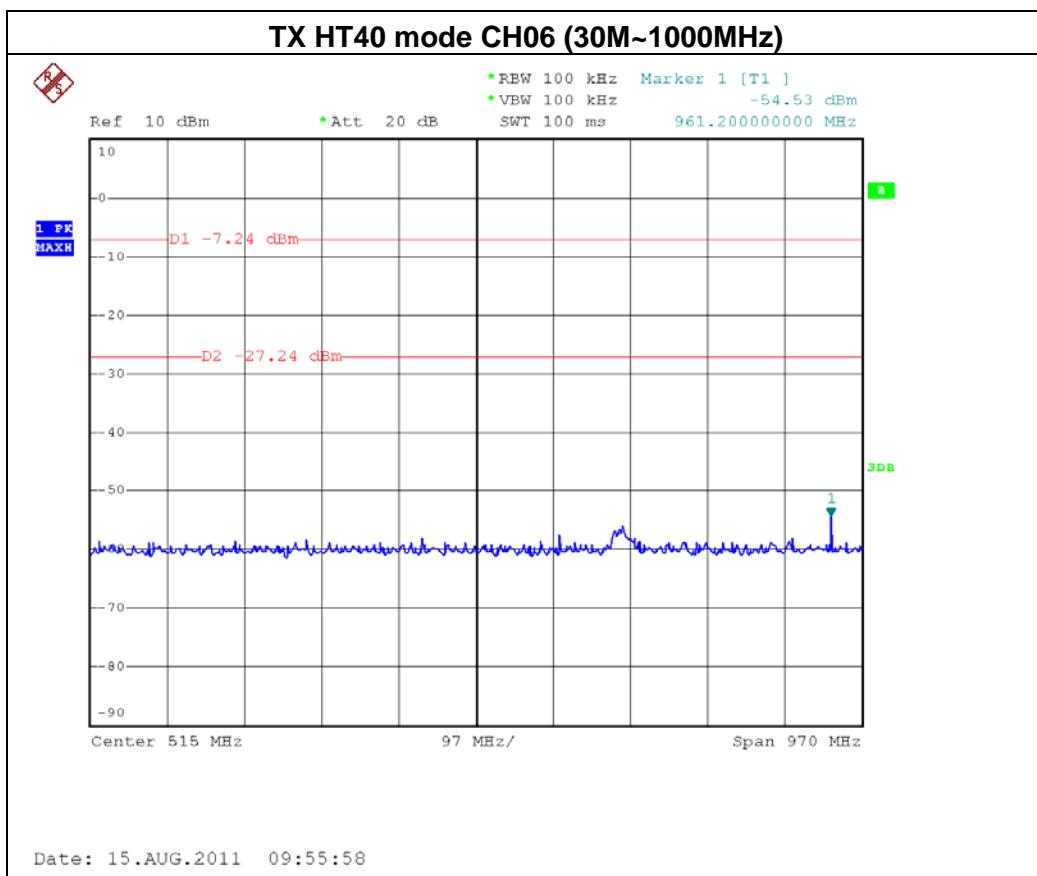


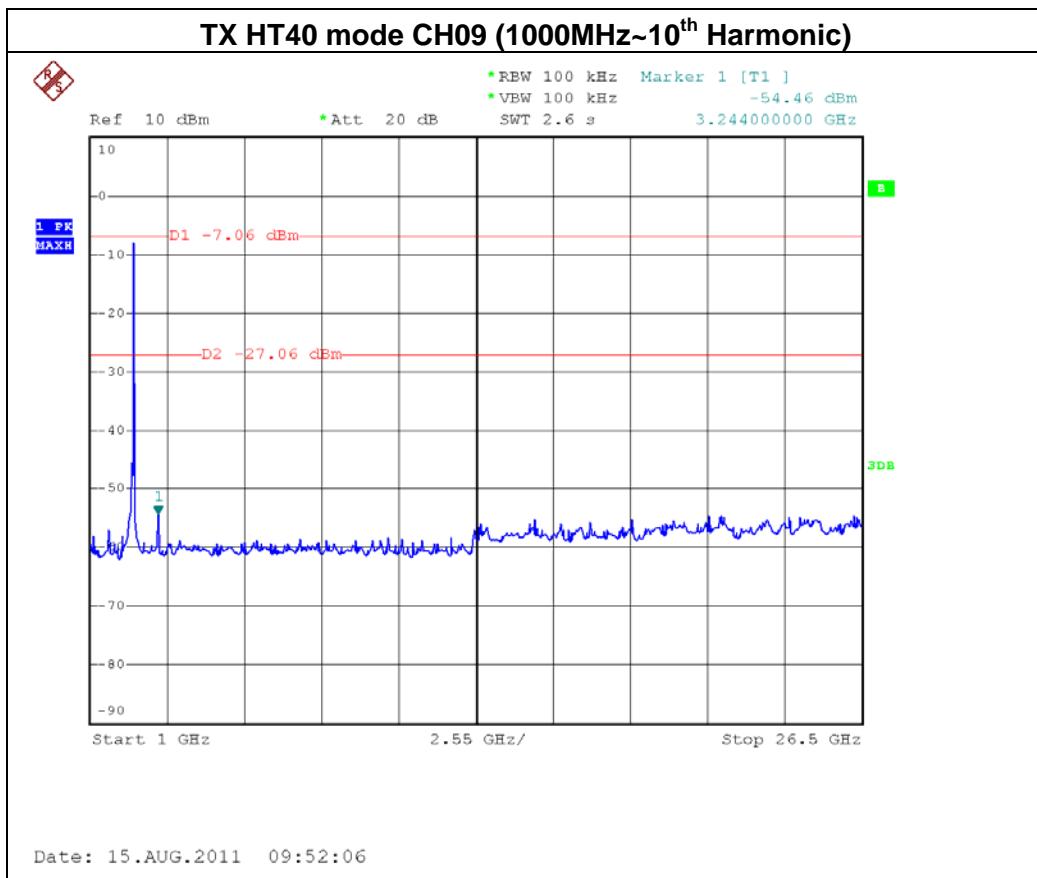
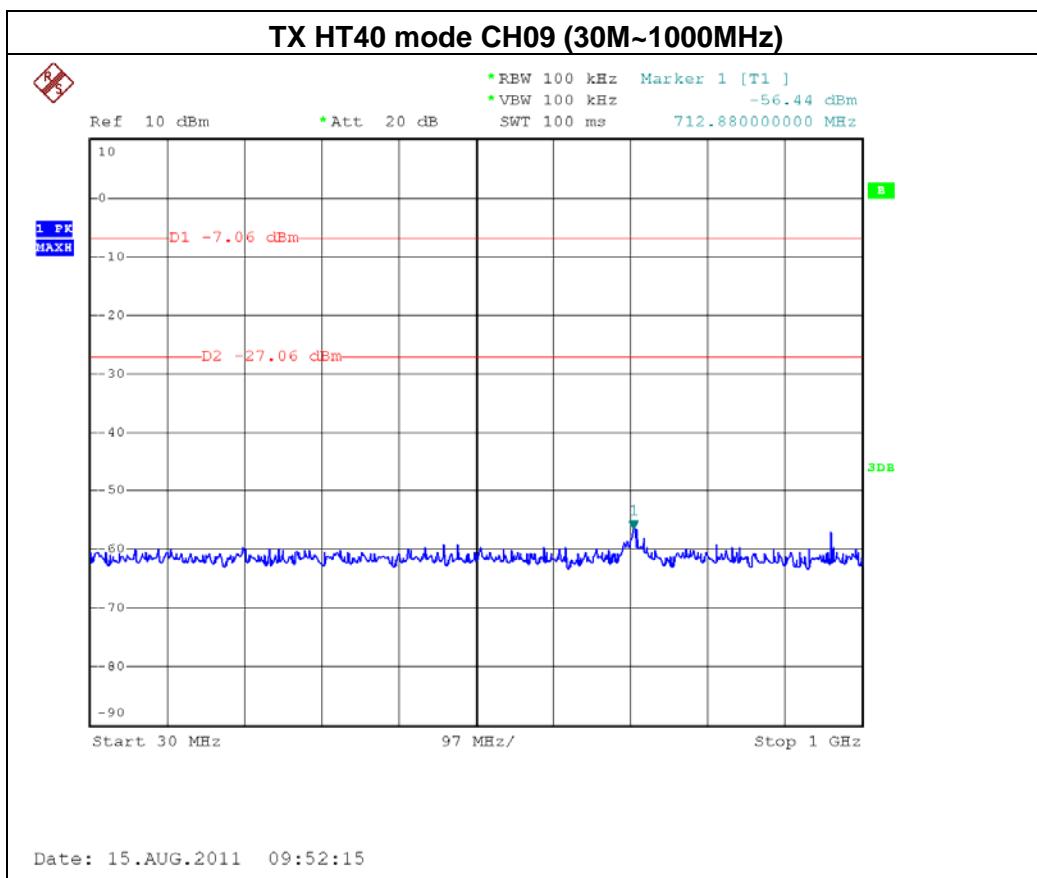
EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 ANT2 (Worst Case)		

Channel of Worst Data: CH03			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2387.60	-38.70	2483.50	-40.71
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			











8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 04, 2012

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW=3KHz, VBW=30 KHz, Sweep time = 500s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

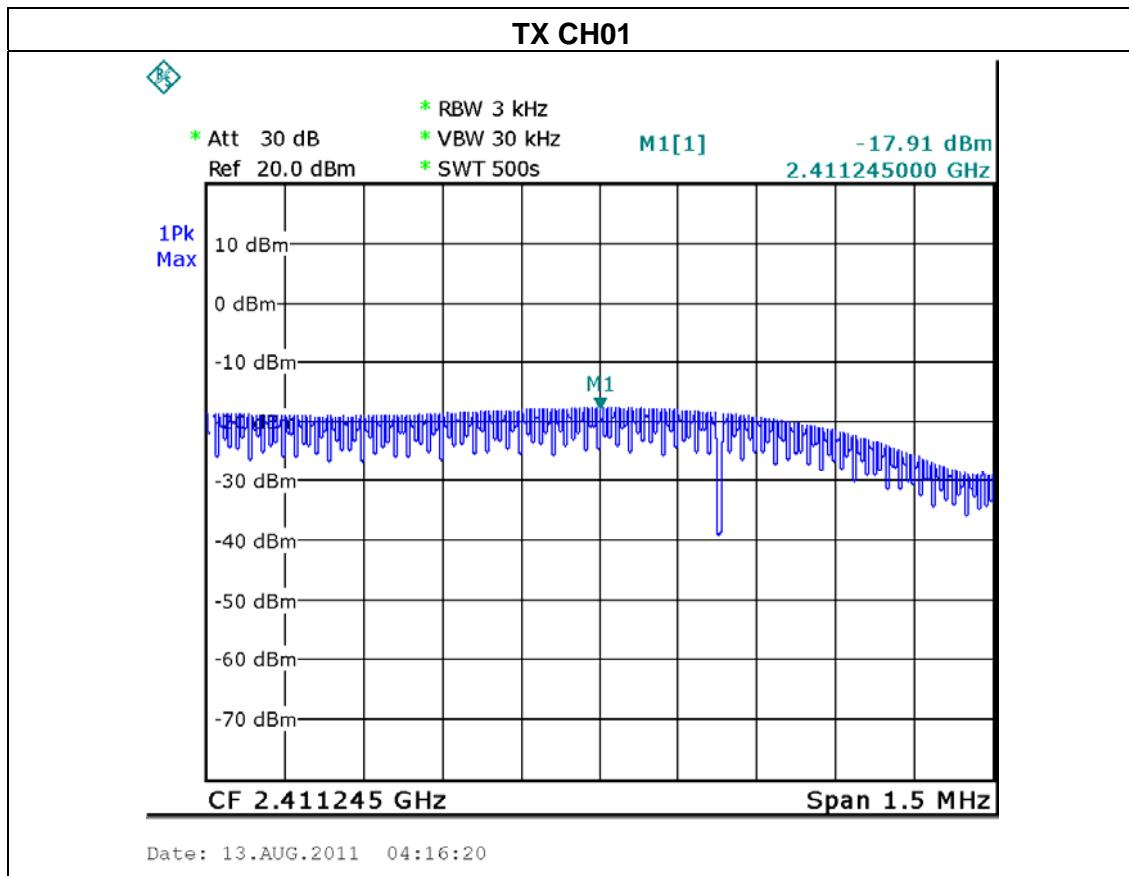
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

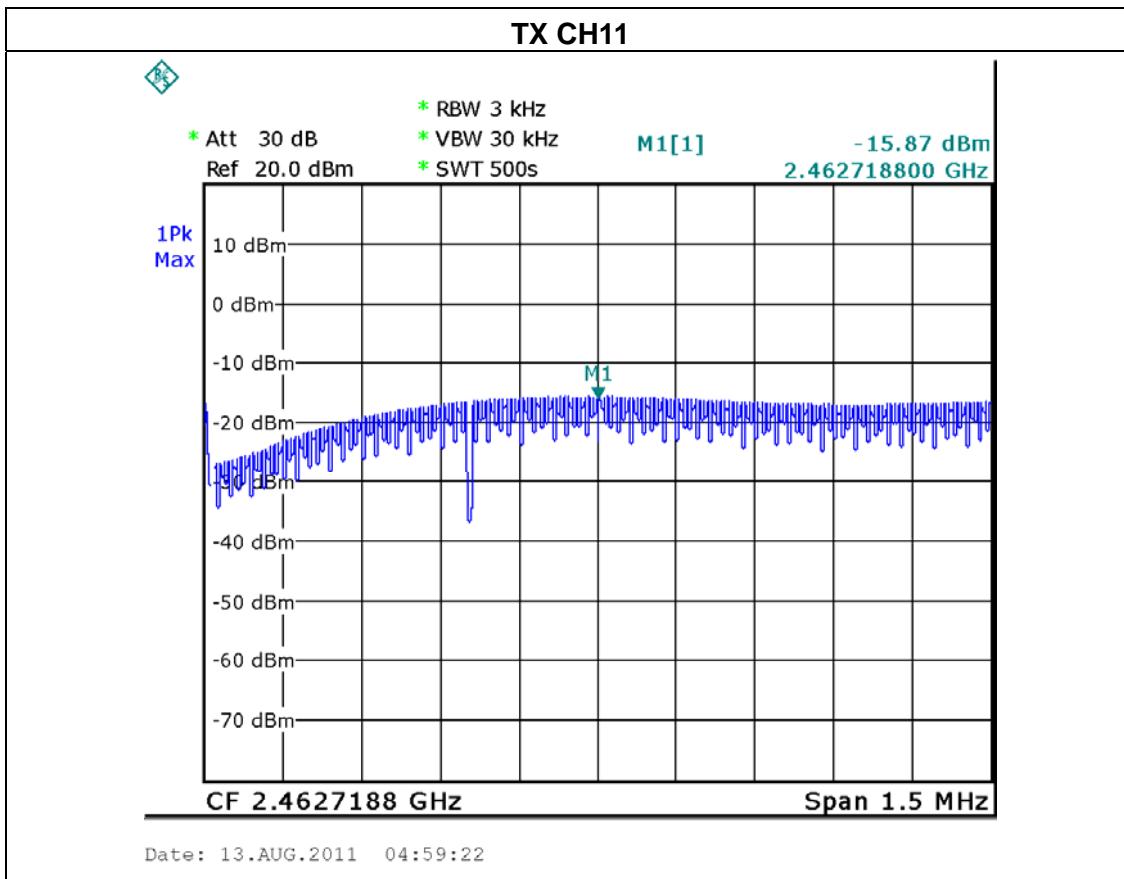
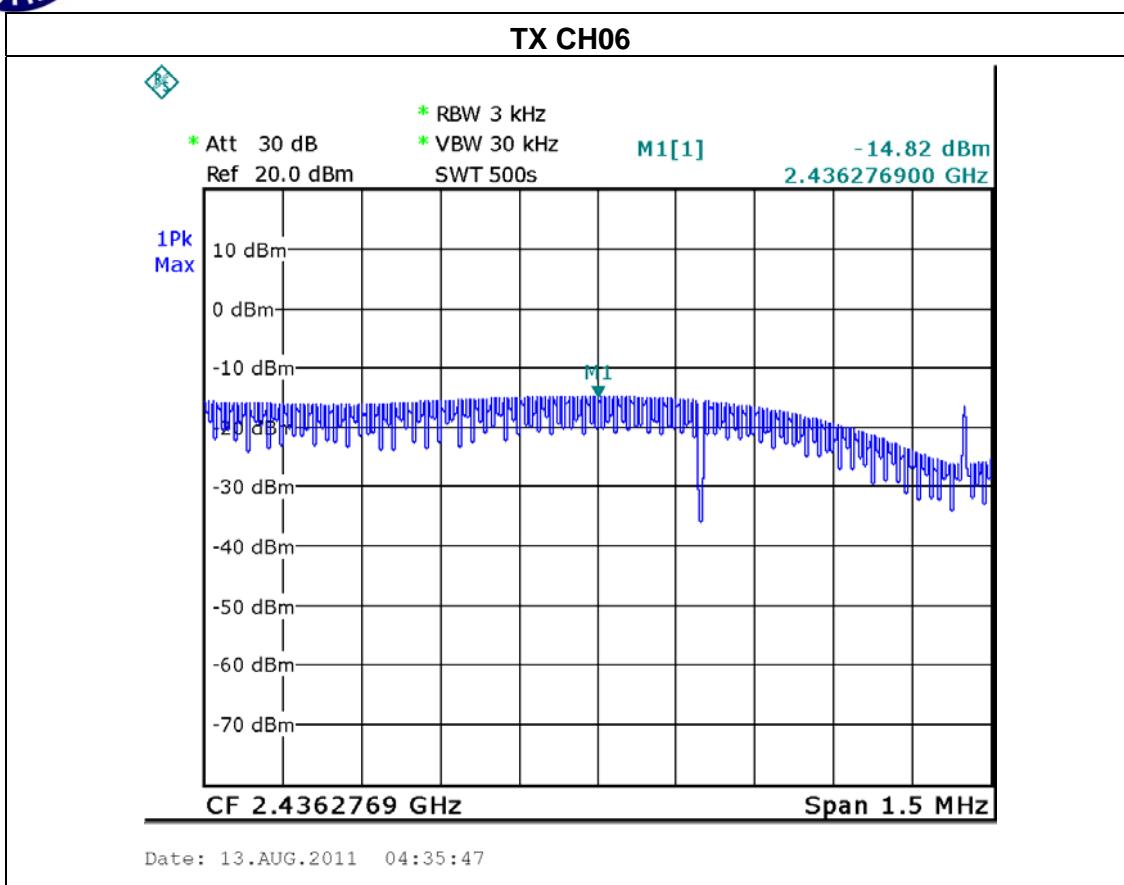


8.1.6 TEST RESULTS

EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-17.91	8
CH06	2437 MHz	-14.82	8
CH11	2462 MHz	-15.87	8

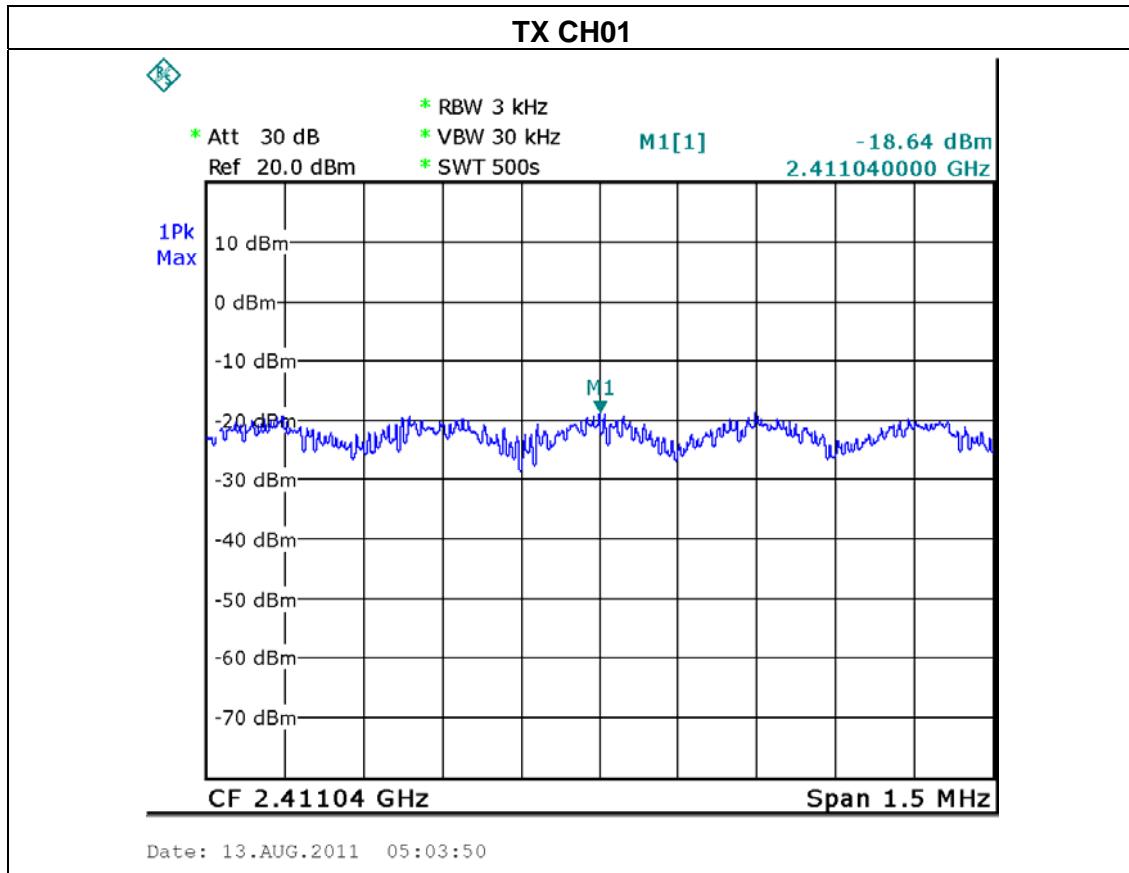


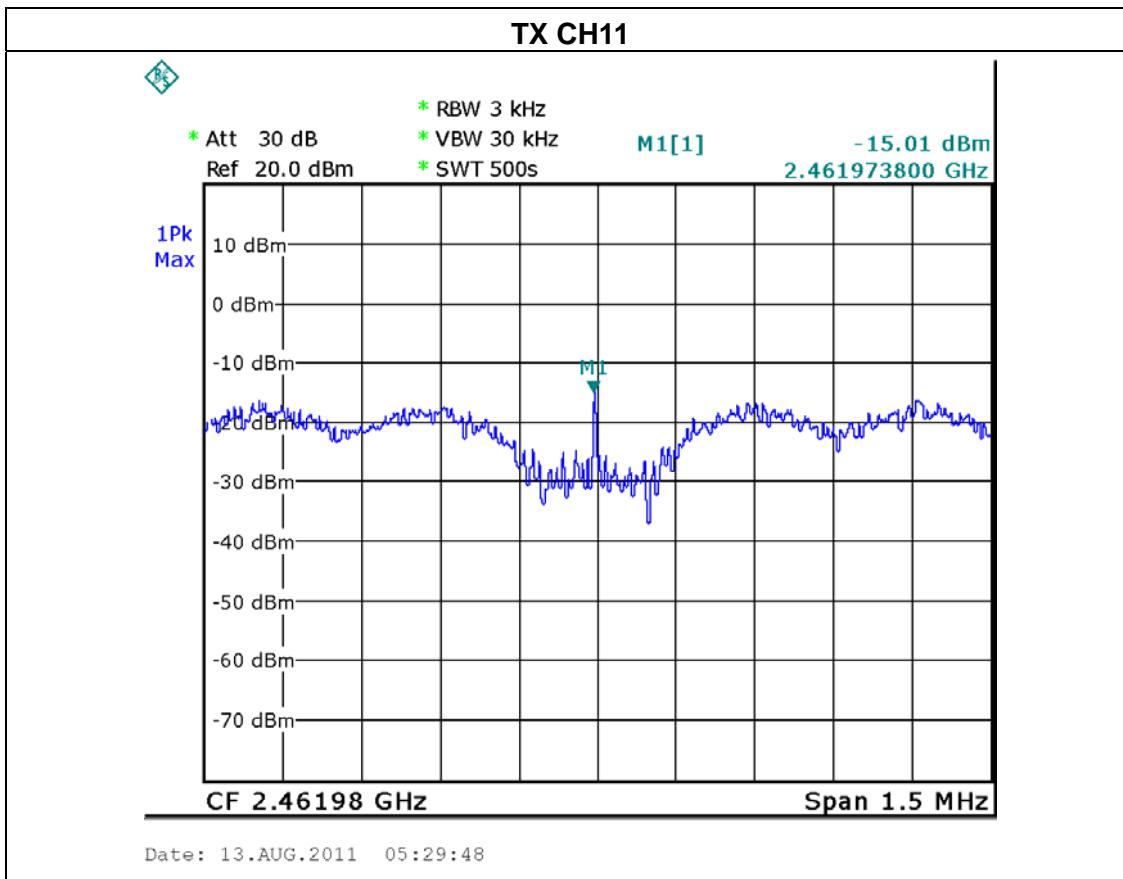
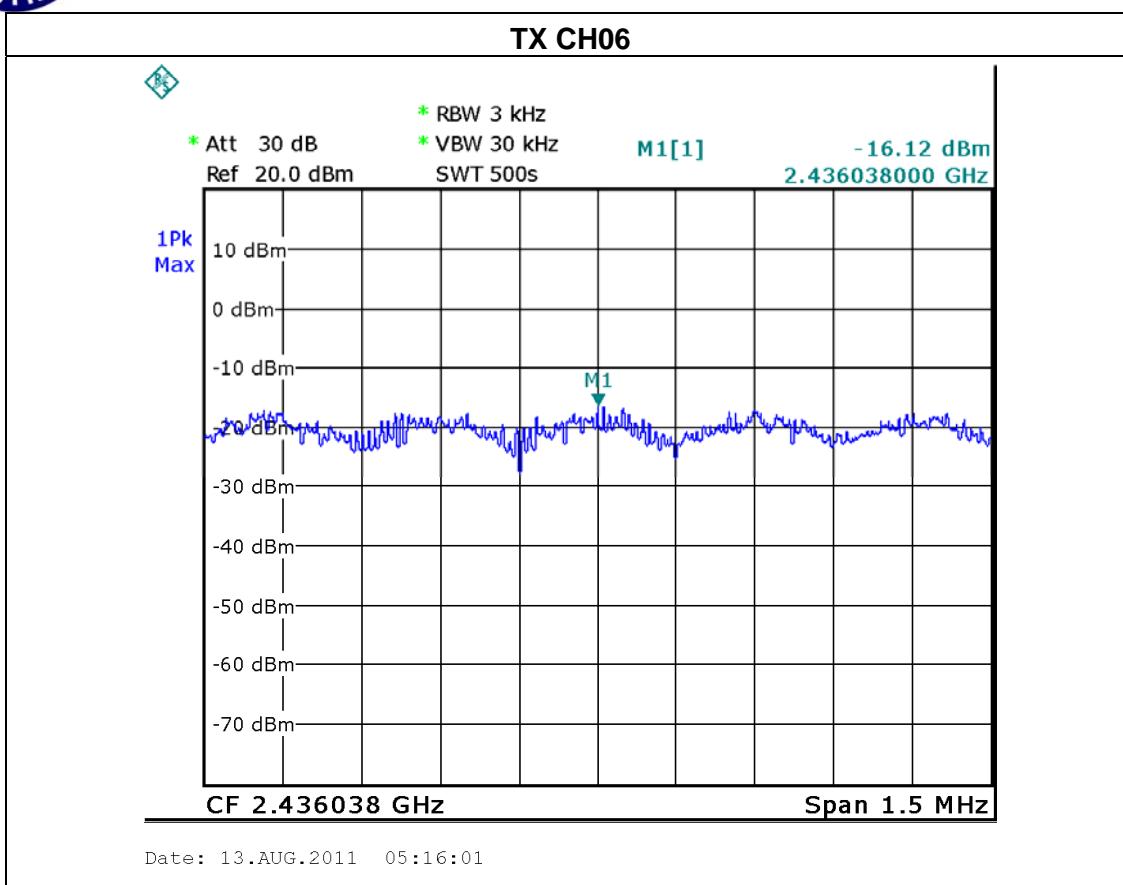




EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-18.64	8
CH06	2437 MHz	-16.12	8
CH11	2462 MHz	-15.01	8







EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-20MHz /CH01, CH06, CH11		

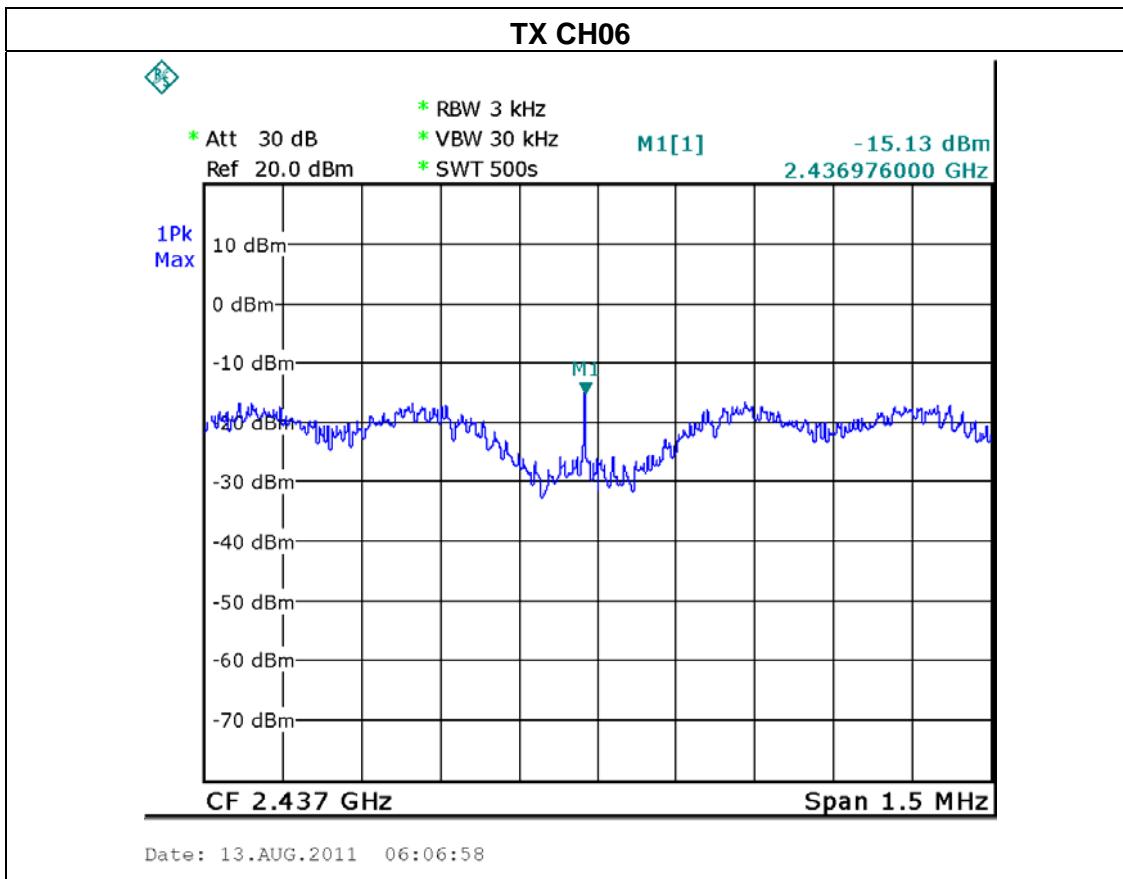
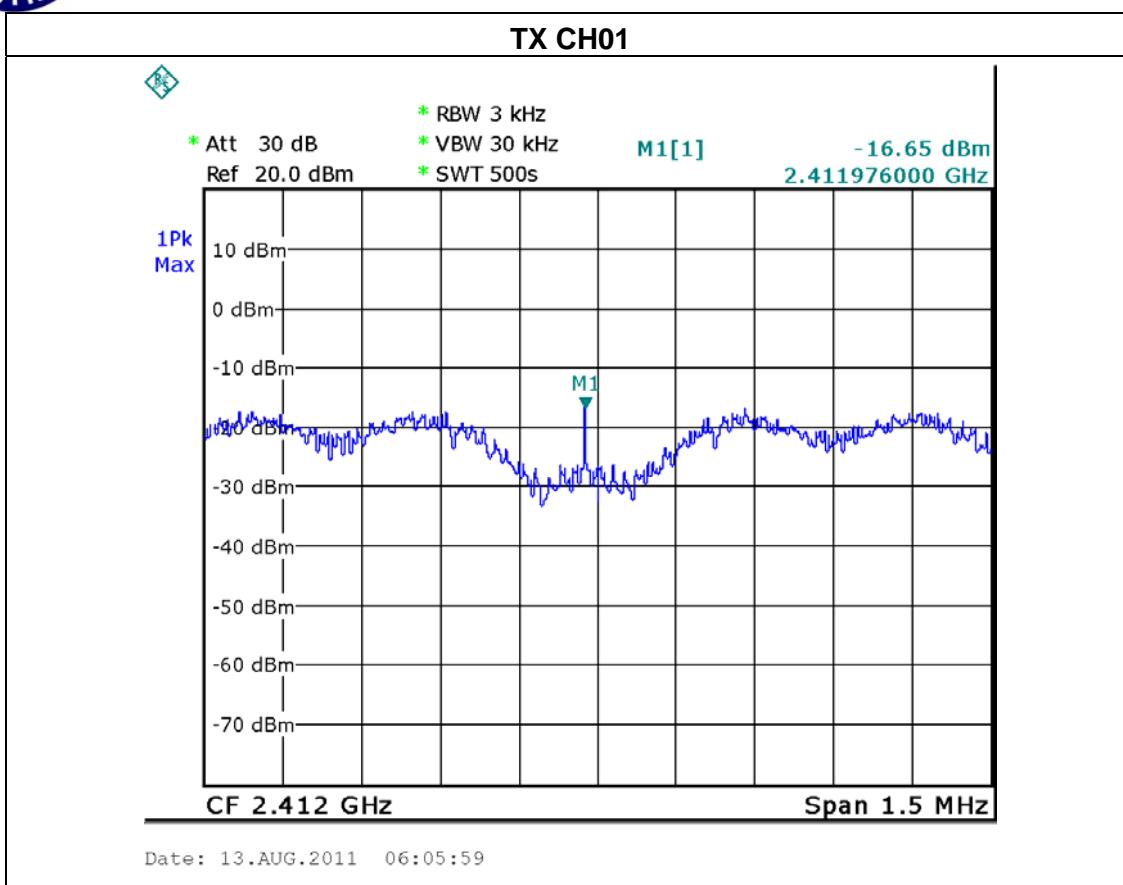
Ant 1					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH01	2412	-16.65	0.021627	8	PASS
CH06	2437	-15.13	0.030690	8	PASS
CH11	2462	-15.87	0.025882	8	PASS

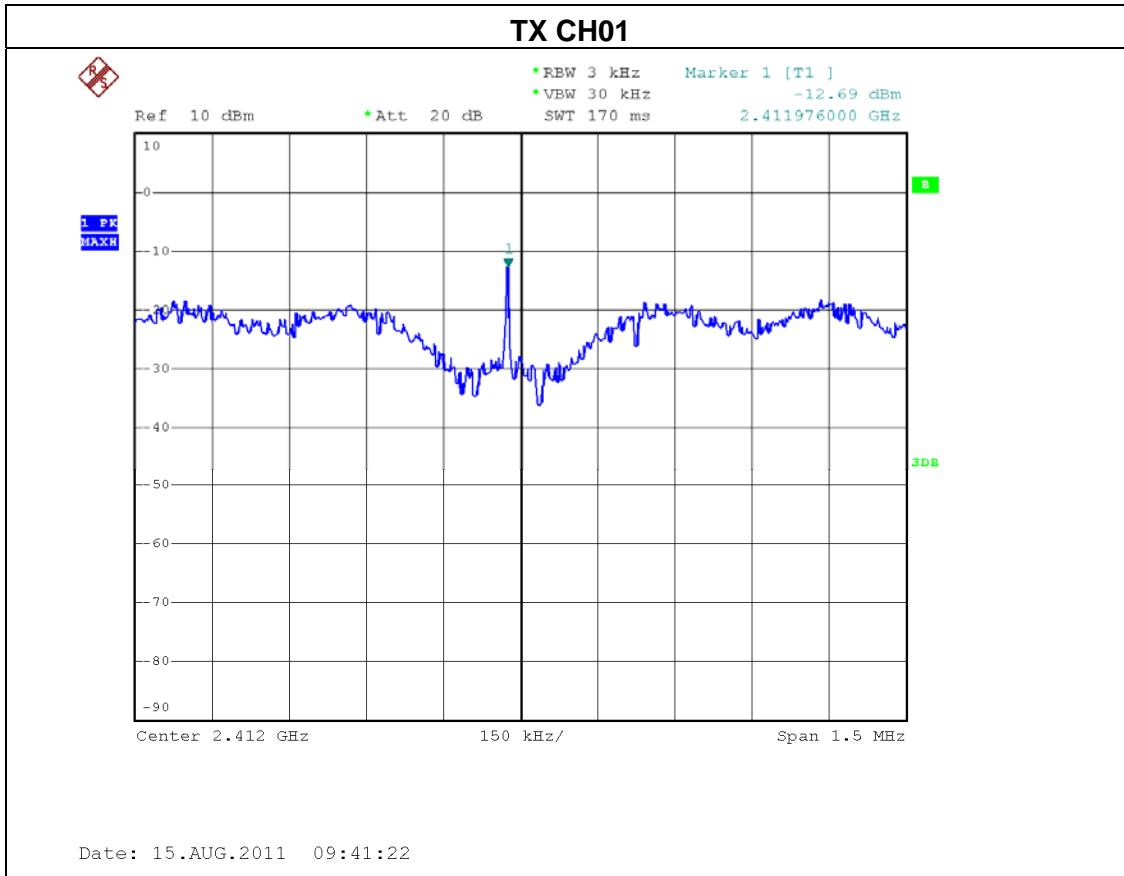
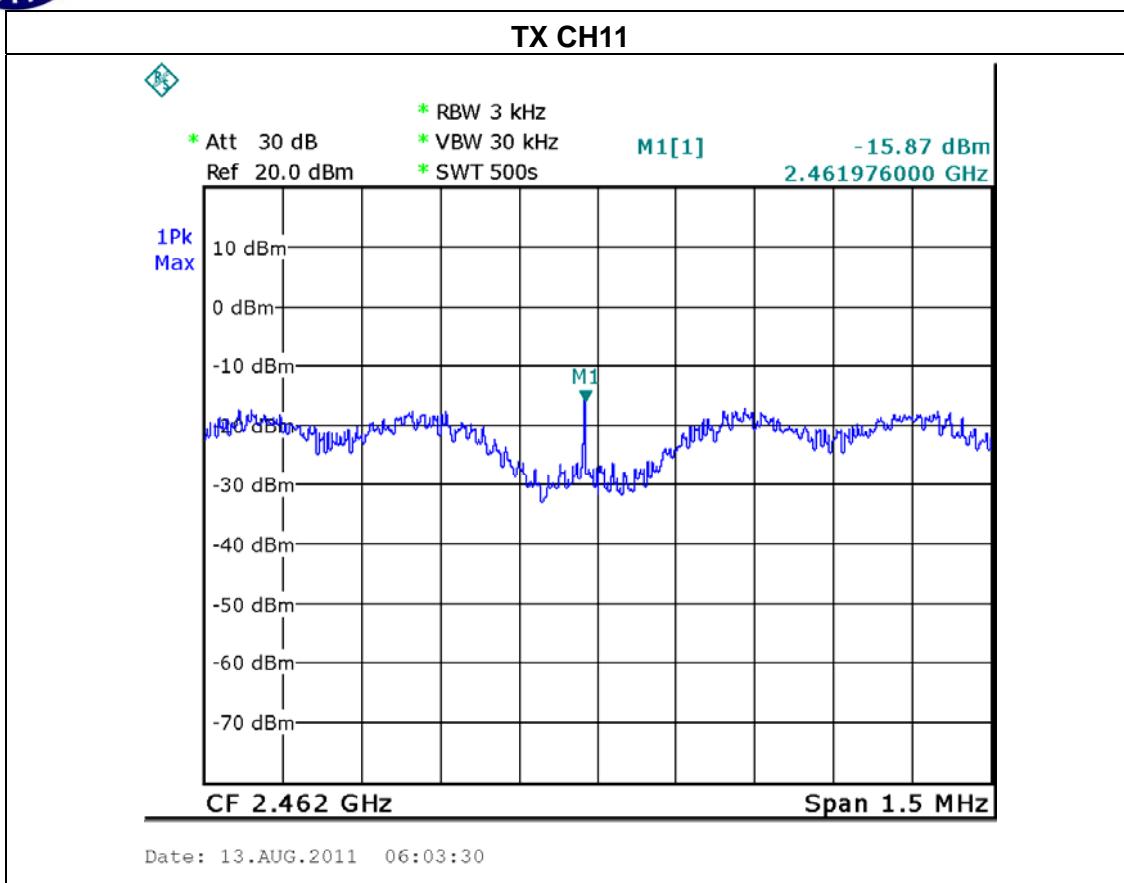
Ant 2					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH01	2412	-12.69	0.053827	8	PASS
CH06	2437	-11.44	0.071779	8	PASS
CH11	2462	-12.01	0.062951	8	PASS

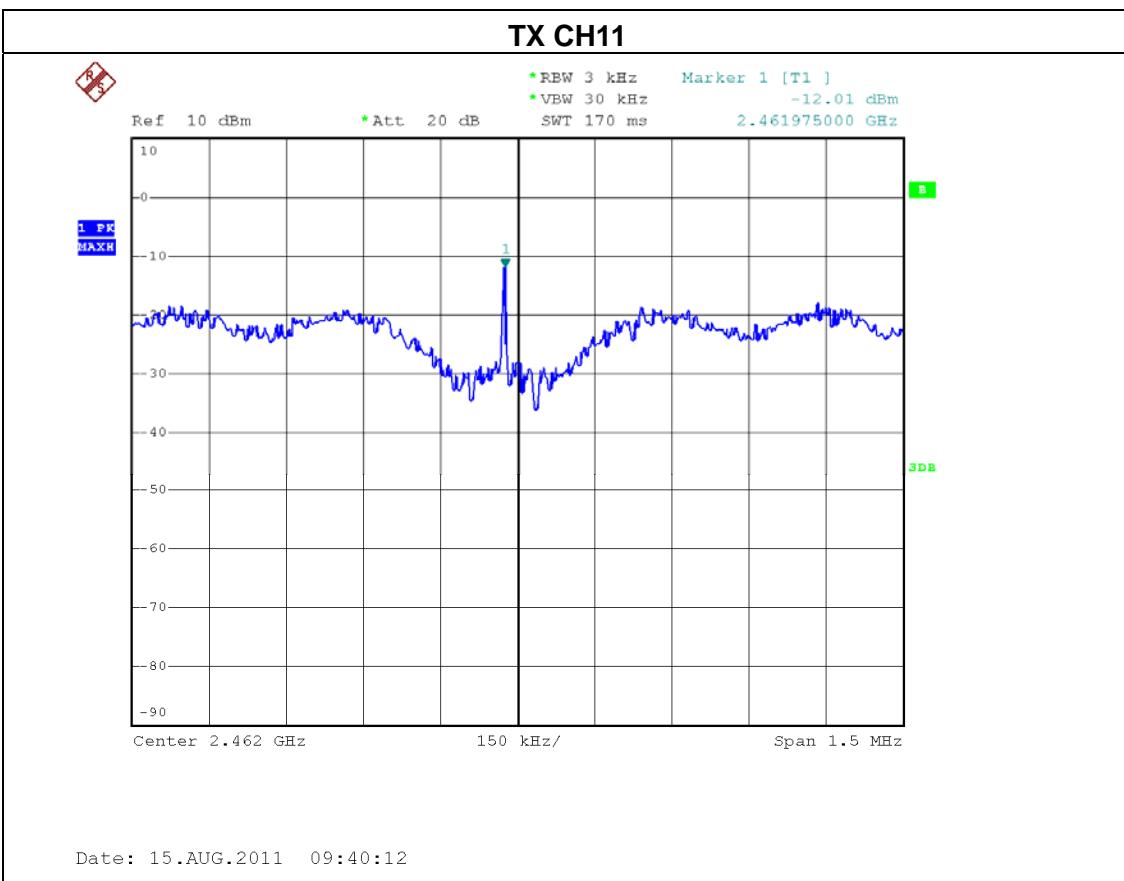
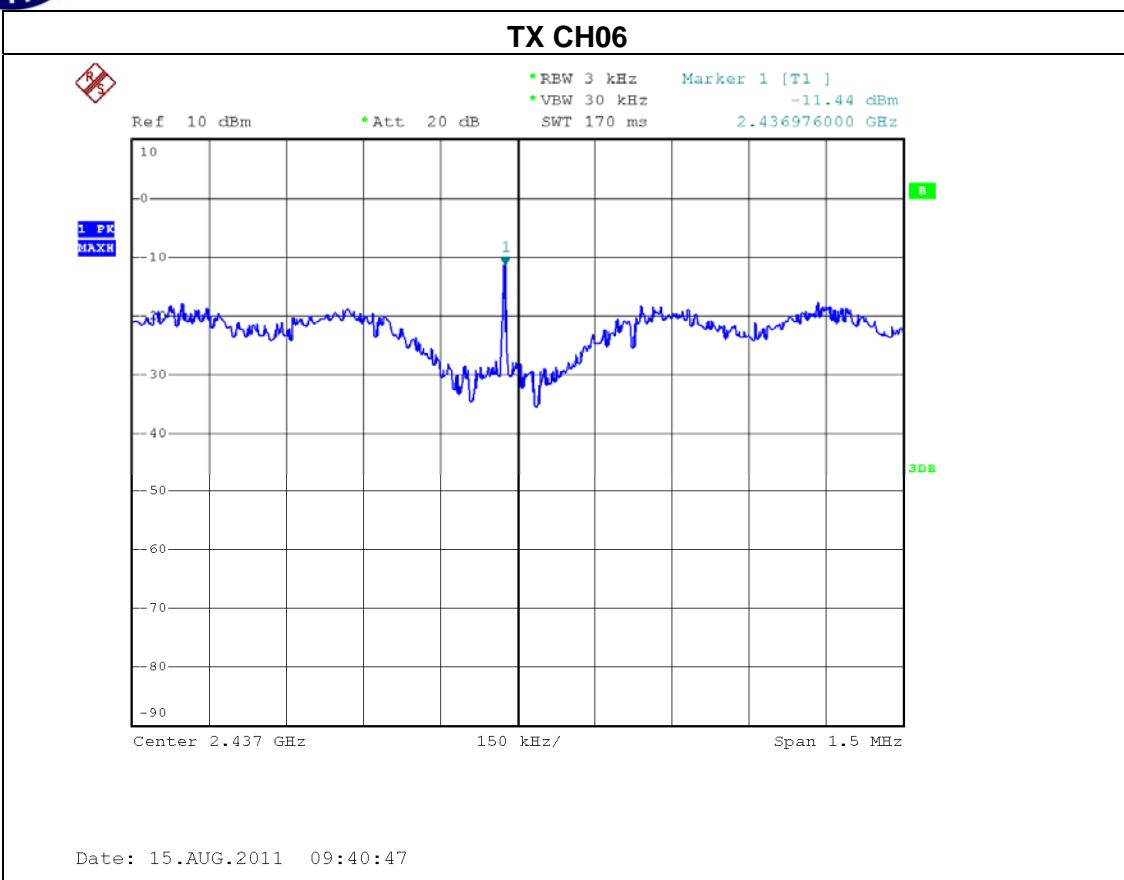
Total (Ant 1 + Ant 2)					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH01	2412	-11.22	0.075454	8	PASS
CH06	2437	-9.89	0.102470	8	PASS
CH11	2462	-10.51	0.088833	8	PASS

Remark :

- (1) The MIMO test requirement, RF power density shall measure each transmitter chain by using channel power density method.
And after obtain each individual transmitter chain power density, then sum the power density by using the following formula:
$$((\text{dBm}/\text{Chain 1})/10^{\log}) + ((\text{dBm}/\text{Chain 2})/10^{\log}) + ((\text{dBm}/\text{ChainN})/10^{\log}) = \text{Combined power density in mW.}$$
- (2) Antenna Gain=2 dBi.









EUT :	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09		

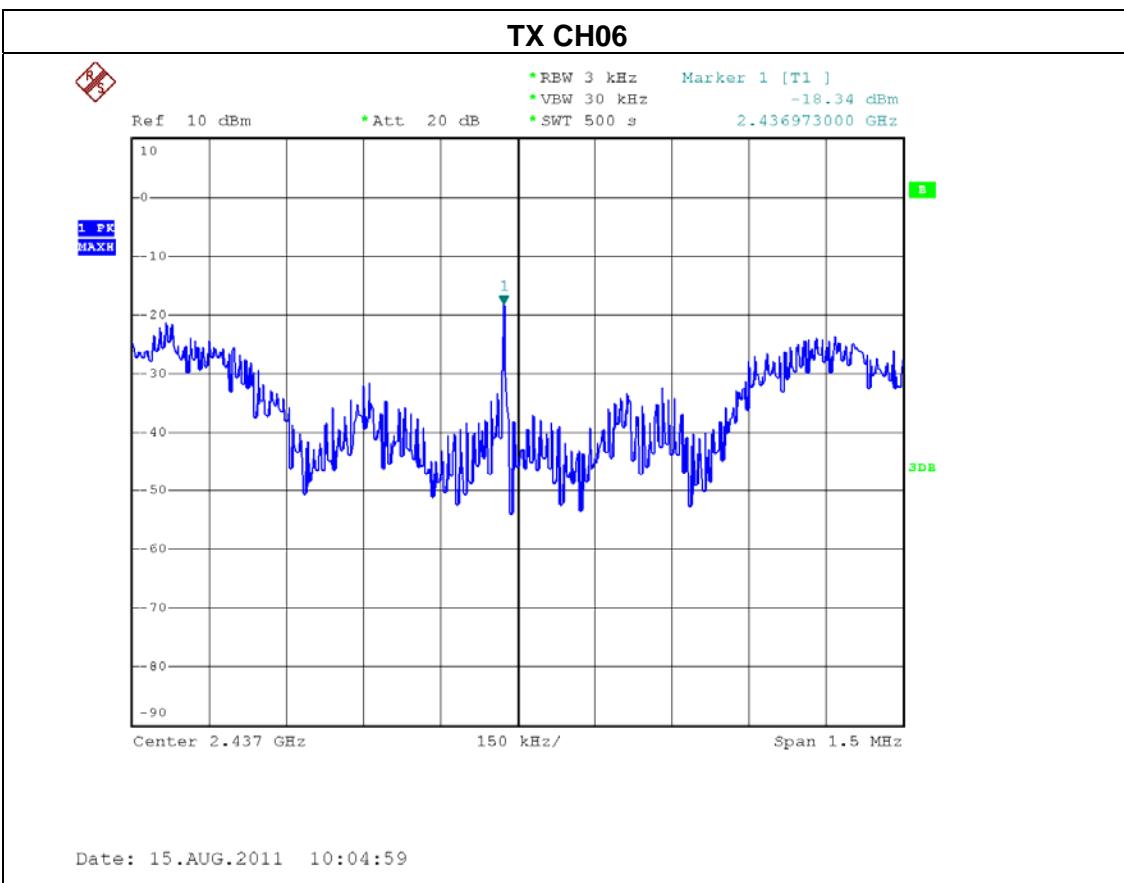
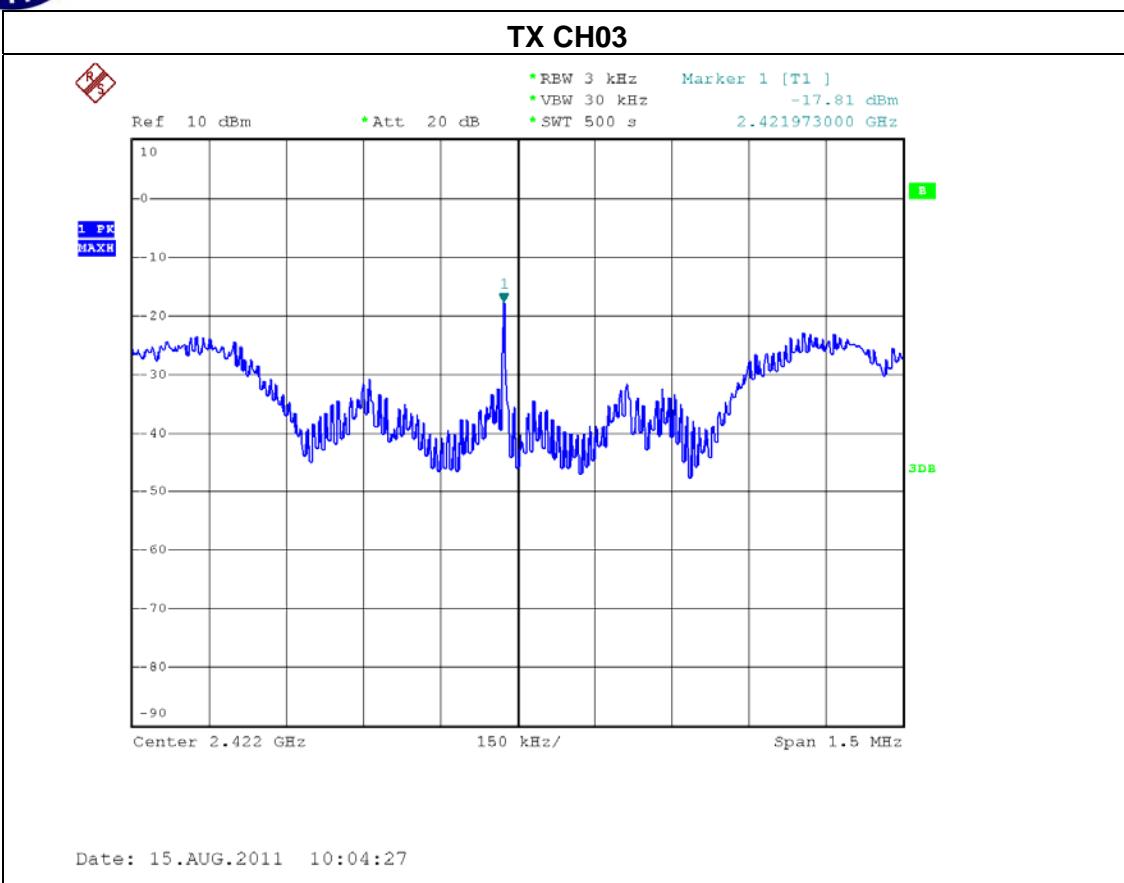
Ant 1					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH03	2422	-17.81	0.01656	8	PASS
CH06	2437	-18.34	0.01466	8	PASS
CH09	2452	-18.16	0.01528	8	PASS

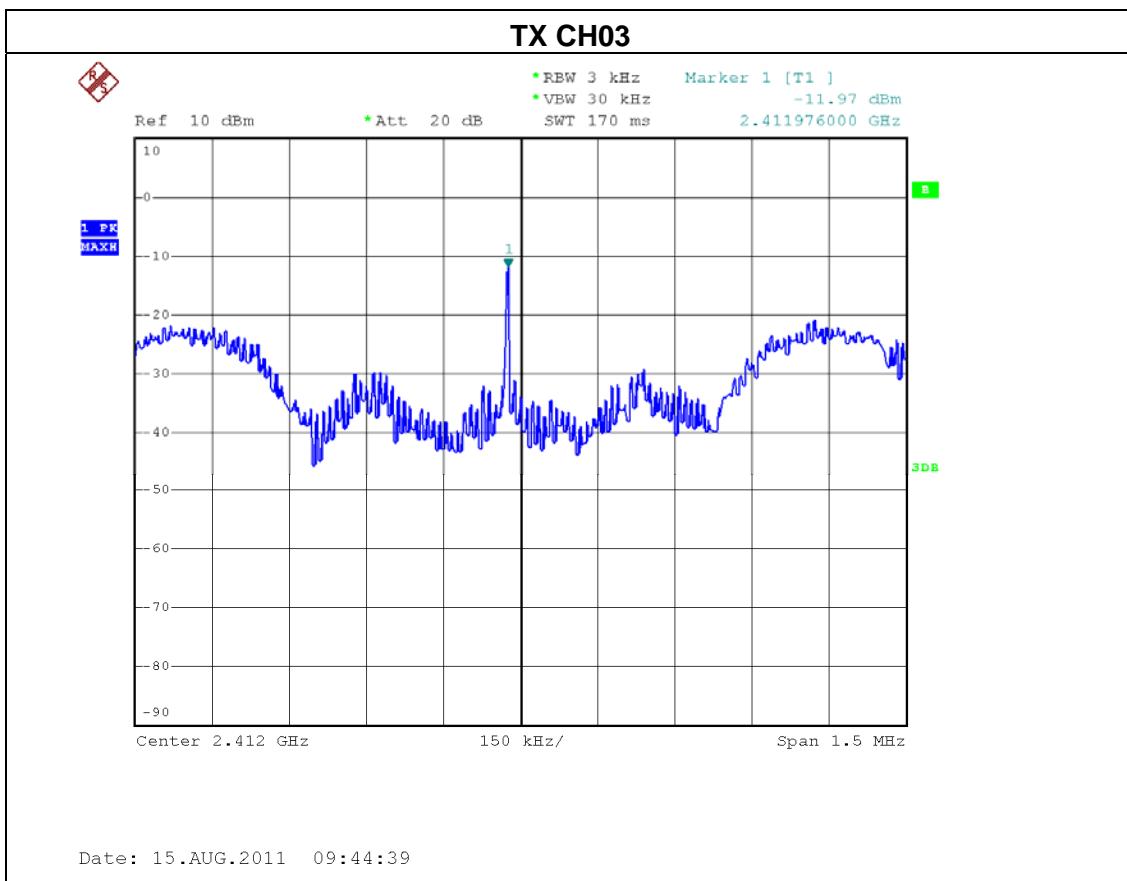
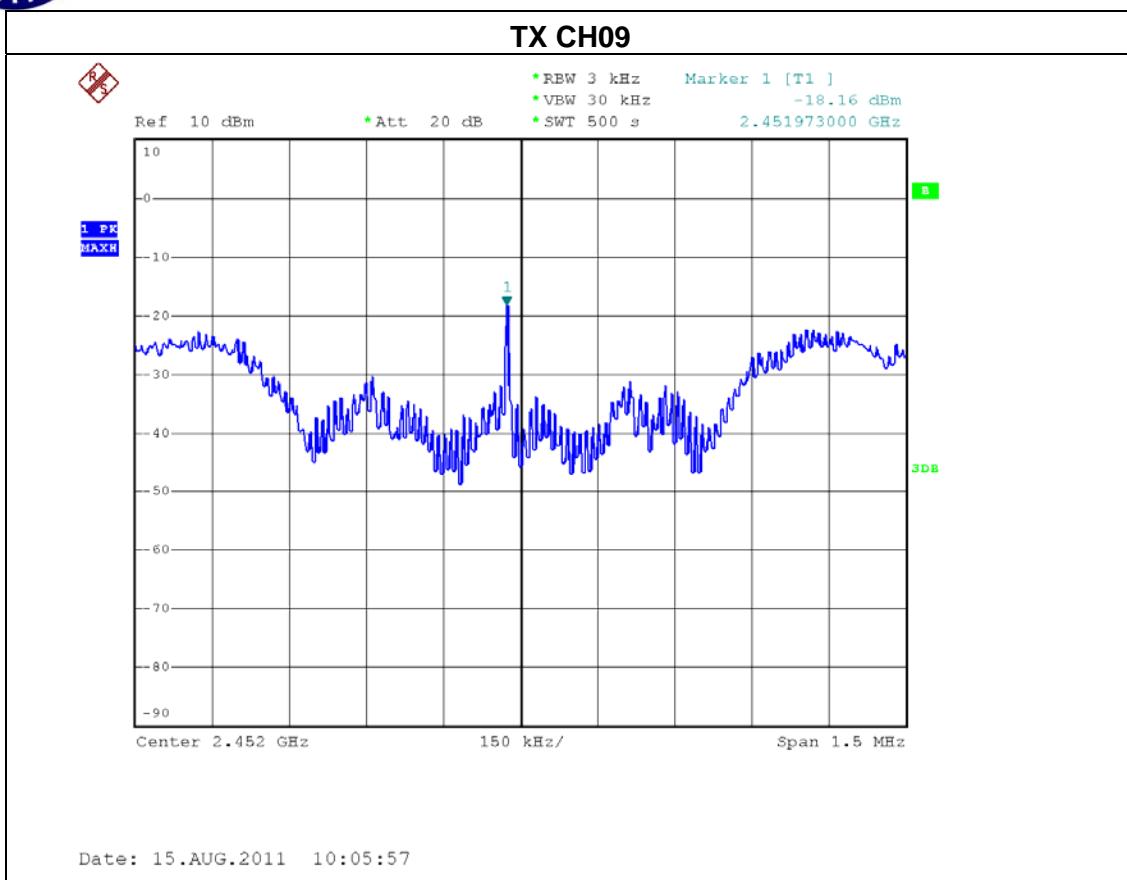
Ant 2					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH03	2422	-11.97	0.06353	8	PASS
CH06	2437	-14.45	0.03589	8	PASS
CH09	2452	-14.76	0.03342	8	PASS

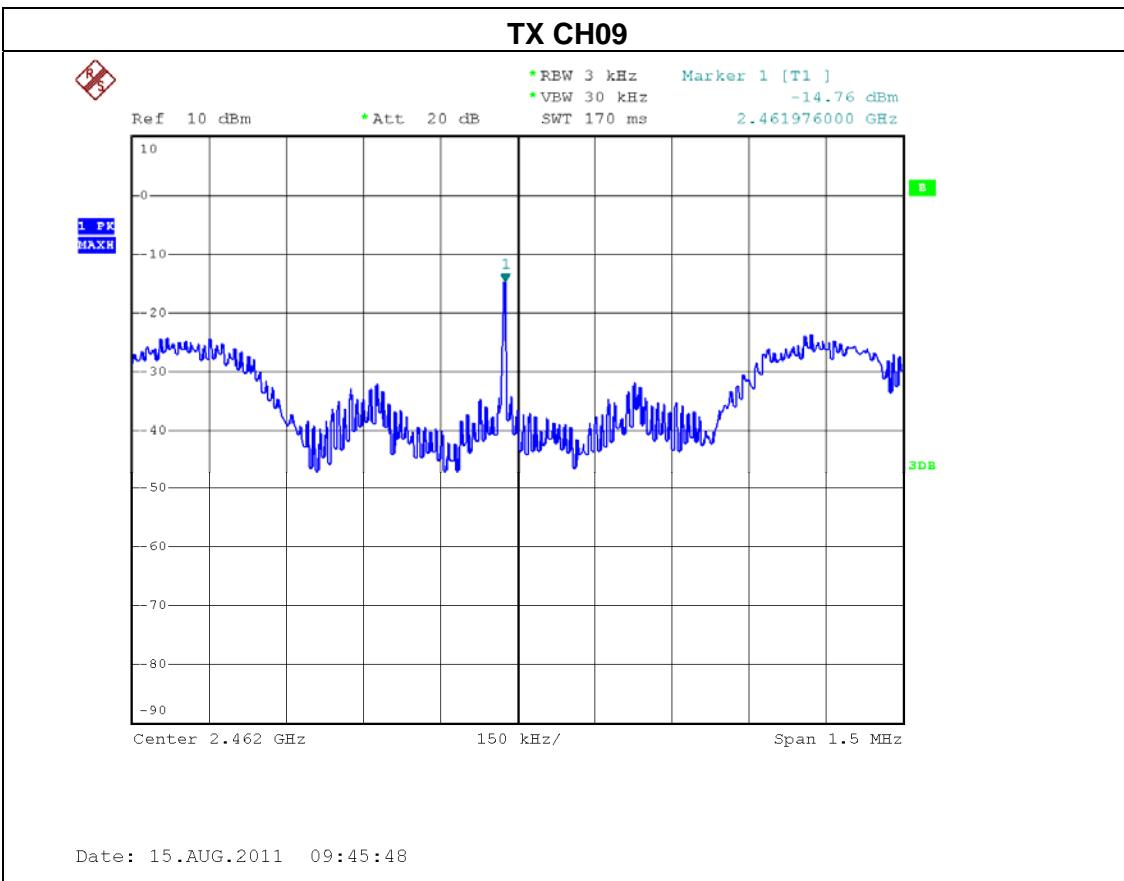
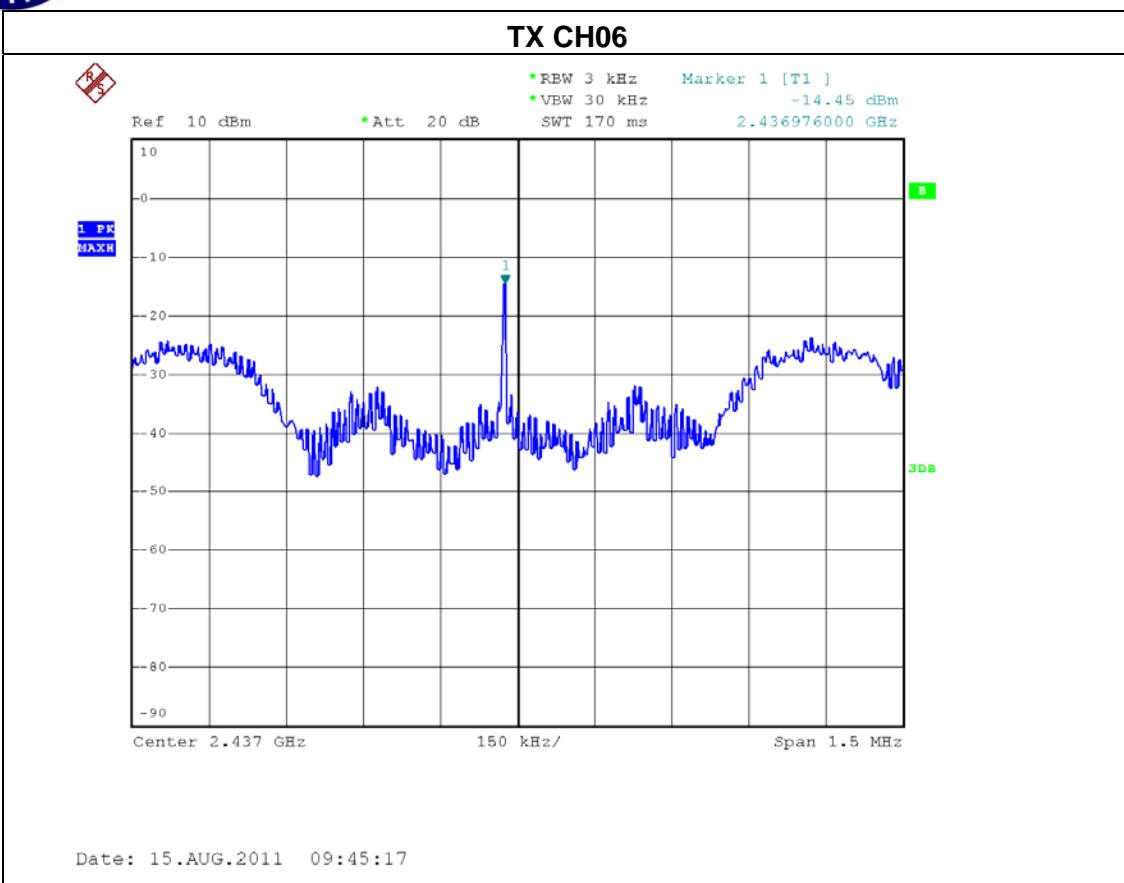
Total (Ant 1 + Ant 2)					
Test Channel	Frequency (MHz)	Power density (dBm) (mW)		LIMIT (dBm)	PASS/FAIL
CH03	2422	-10.96	0.080091	8	PASS
CH06	2437	-12.96	0.050548	8	PASS
CH09	2452	-13.13	0.048695	8	PASS

Remark :

- (1) The MIMO test requirement, RF power density shall measure each transmitter chain by using channel power density method.
And after obtain each individual transmitter chain power density, then sum the power density by using the following formula:
$$((\text{dBm}/\text{Chain 1})/10^{\log}) + ((\text{dBm}/\text{Chain 2})/10^{\log}) + ((\text{dBm}/\text{ChainN})/10^{\log}) = \text{Combined power density in mW.}$$
- (2) Antenna Gain=2 dBi.









9. EUT TEST PHOTO

Conducted Measurement Photos





Radiated Measurement Photos

