



FCC Test Report

for

47 CFR Part 15 Subpart C

Equipment : Notebook PC

Trade Name : MTC; GETAC

Model No. : B300

FCC ID : MAU302

Filing Type : Certification

Applicant : MiTAC Technology Corp.

9th. FL., No.75, Ming Sheng E. Rd., Sec.3, Taipei, Taiwan

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- The data shown in this test report were carried out on Nov. 22, 2007 at **Sporton International Inc. LAB.**
- Report No.: FR7O1819-01-D, Report Version: Rev.01

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History of this test report

Report Issue Date: Dec. 27, 2007

Report No.	Description



1. General Description of Equipment under Test

1.1 Applicant

MiTAC Technology Corp.

9th. FL., No.75, Ming Sheng E. Rd., Sec.3, Taipei, Taiwan

1.2 Manufacturer

GeTAC Technology(Kunshan) LTD.

No.269, 2nd Road, Export Processing Zone, Changjiang South Road, Kunshan, Jiangsu, P.R.C

1.3 Basic Description of Equipment under Test

Equipment		Notebook PC
Trade Name		MTC; GETAC
Model Name		B300
FCC ID		MAU302
AC Adapter	Brand Name	Delta
	Model Name	ADP-90SB BB
	Power Rating	I/P : 100-240Vac, 1.5A, 50-60Hz; O/P : 19Vdc, 4.74A
	AC Power Cord Type	1.73 meter shielded with ferrite core
Battery	Brand Name	SAYNO
	Model Name	BP3S3P2550(P)
	Power Rating	10.8V, 7.65Ah
	Type	Li-ion

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.



1.4 Feature of Equipment under Test

Product Feature & Specification				
1. Type of Modulation	WLAN : DSSS / OFDM Bluetooth : GFSK			
2. Freq. Range/Carrier Freqs.	802.11a : 8 (Band I and II) / 5 Channels (Band III) 802.11b/g : 11 Channels Bluetooth : 79 Channels			
3. Number of Channels	802.11a : 5150 ~ 5350MHz (Band I,II) / 5725MHz ~ 5850MHz (Band III) 802.11b/g : 2400MHz ~ 2483.5MHz Bluetooth : 2400MHz ~ 2483.5MHz			
4. Carrier Frequency of each channel	802.11a Band I : 5000+n*5 MHz, n=36, 40, 44, 48 802.11a Band II : 5000+n*5 MHz, n=52, 56, 60, 64 802.11a Band III : 5000+n*5 MHz, n=149, 153, 157, 161, 165 802.11b/g : 2412MHz+(n-1)*5MHz, n=1~11 Bluetooth : 2402MHz+n*1MHz, n=0~78			
5. Channel Spacing	802.11a : 5 MHz 802.11b/g : 5 MHz Bluetooth : 1 MHz			
6. Maximum Output Power to Antenna (Normal Condition)	802.11a : 16.61 dBm (Band I) / 19.51 dBm (Band II) / 17.06 dBm (Band III) 802.11b : 14.86 dBm 802.11g : 15.40 dBm Bluetooth : -0.21 dBm			
7. Type of Antenna Connector	N/A			
8. Antenna Type	Bluetooth : PIFA Antenna WLAN : PIFA Antenna			
9. Antenna Gain	Bluetooth : -1.09 dBi WLAN : 1.55 dBi			
10. Function Type	Transmitter		Transceiver	V

**1.5 Specification of Notebook**

	Mode 1 (E100)	Mode 2 (E100N)
LCD	L5S30348P01, 13.1" XGA, ESPON	Sanyo Panel + Sunlight readable L5S30348P01, 13.3", EPSON,
CPU	L7300	L7500
ODD	SUPER MULIT DVD R9 DEVICE;UJ850UPK-AG,CS F/W:1.6,W/O BEZEL,KME	
HDD	MHY2080BH,2.5",80GB,5400RPM,S ATA,FUJITSU	MHY2120BH,2.5",120GB,5400RPM,SA TA,FUJITSU
Memory	1GB,HYS64T128021EDL-3S-B2,QI MONDA	HYMP512S64CP8-Y5,DDR2 667 1G,HYNIX (x 2)
Battery	BP3S3P2550(P) LI-ION,10.8V/7.65AH,BQ20z90,PAN,9CELLS,3S3P	
ADP	Delta ADP-90SB BB	
MDC	RD02-D330,AZALIA,BILLIONTON	
WLAN	Intel wireless 3945 802.11a/b/g (MOW1)	Intel wireless 3945 802.11a/b/g (MOW2)
Bluetooth	Billionton GUBTCR42M	
GPS	ET313,GPS ENGINE BOARD,GLOBALSAT,GPI	

2. Test Configuration of Equipment under Test

2.1 Test Manner

- a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- b. Power Table as below:

802.11a

Channel	Frequency (MHz)	Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 149	5745 MHz	17.06	16.43	16.57	16.71	17.01	15.87	13.45	11.00
CH 157	5785 MHz	16.51	15.77	15.89	16.07	15.87	14.81	12.91	10.08
CH 165	5825 MHz	16.92	16.84	16.80	16.30	16.84	15.30	13.02	11.21

802.11b

Channel	Frequency (MHz)	Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 01	2412 MHz	14.52	14.32	14.46	14.35
CH 06	2437 MHz	14.86	14.70	14.73	14.76
CH 11	2462 MHz	14.13	14.09	14.13	14.12

802.11g

Channel	Frequency (MHz)	Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 01	2412 MHz	14.94	14.91	15.09	15.13	15.01	14.97	15.10	15.01
CH 06	2437 MHz	15.17	15.24	15.31	14.94	15.26	15.32	15.03	15.40
CH 11	2462 MHz	13.82	13.81	13.90	13.96	13.83	13.85	13.97	14.00

- c. The 802.11a/b/g data rate were set in 6Mbps, 1Mbps and 54Mbps, due to the highest RF output power.
- d. The EUT is programmed to transmit signal continuously for all testings.
- e. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

2.2 Test Mode

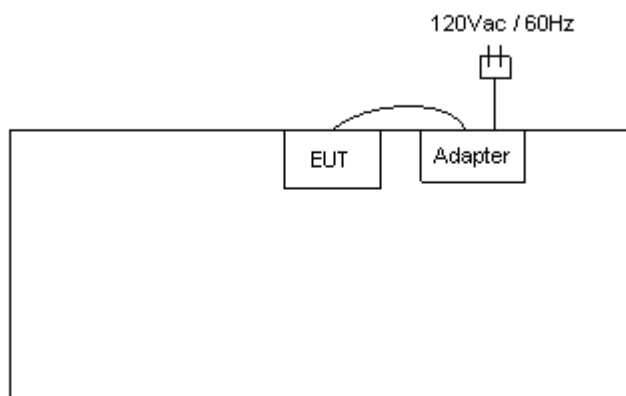
Application			
	802.11b	802.11g	802.11a
Radiated Emission / RF Conducted	Mode 1: CH01_2412 MHz	Mode 4: CH01_2412 MHz	Mode 7: CH149_5748 MHz
	Mode 2: CH06_2437 MHz	Mode 5: CH06_2437 MHz	Mode 8: CH157_5785 MHz
	Mode 3: CH11_2462 MHz	Mode 6: CH11_2462 MHz	Mode 9: CH165_5825 MHz
Conducted Emission	Mode 1: BT Link + WLAN Link + Adpater		

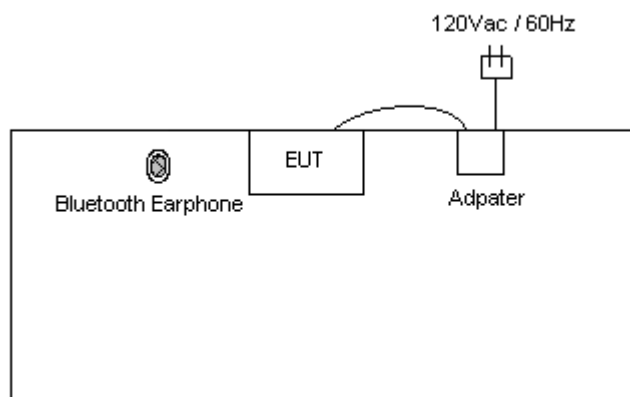
2.3 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable / Power Cord
1.	Bluetooth Eerpgone	Engotech	ET-BH111	PQY471087	N/A

2.4 Connection Diagram of Test System

<Radiated Emission>



<Conducted Emission>



3. RF Utility

The programmed RF Utility is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing.



4. General Information of Test

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-328-4978
Test Site No : CO04-HY, 03CH04-HY

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test Compliance

47 CFR Part 15 Subpart C

4.4 Frequency Range

- a. Conduction: from 150 kHz to 30 MHz
- b. Radiation: from 30 MHz to 25000 MHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



5. Test Data and Test Result

5.1 List of Measurements and Examinations

The Emission Mode: Wireless LAN

FCC Rule	Description of Test	Result
15.207	Conducted Emission	Pass
15.247(a)(2)	6dB & 20dB Bandwidth	Pass
15.247(b)	Maximum Peak Output Power	Pass
15.209(a)	Radiated Emission	Pass
15.247(c)	100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	Power Spectral Density	Pass
15.203 15.247(b)(4)	Antenna Requirement	Pass

6dB Bandwidth Measurement

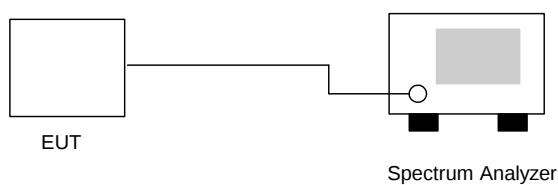
5.1.1 Measuring Instruments

As described in chapter 6 of this test report.

5.1.2 Test Procedure

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The 6 dB bandwidth is defined as the frequency range where the power is higher than the peak power minus 6dB.

5.1.3 Test Setup Layout



**5.1.4 Test Result**

Application Type : WLAN 802.11a/b/g

Temperature : 25~26

Relative Humidity : 57~55%

Test Enginner : Ken**802.11b**

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	9.08	> 0.5MHz	Mode 1
06	2437	9.08	> 0.5MHz	Mode 2
11	2462	9.00	> 0.5MHz	Mode 3

802.11g

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	16.52	> 0.5MHz	Mode 4
06	2437	16.52	> 0.5MHz	Mode 5
11	2462	16.52	> 0.5MHz	Mode 6

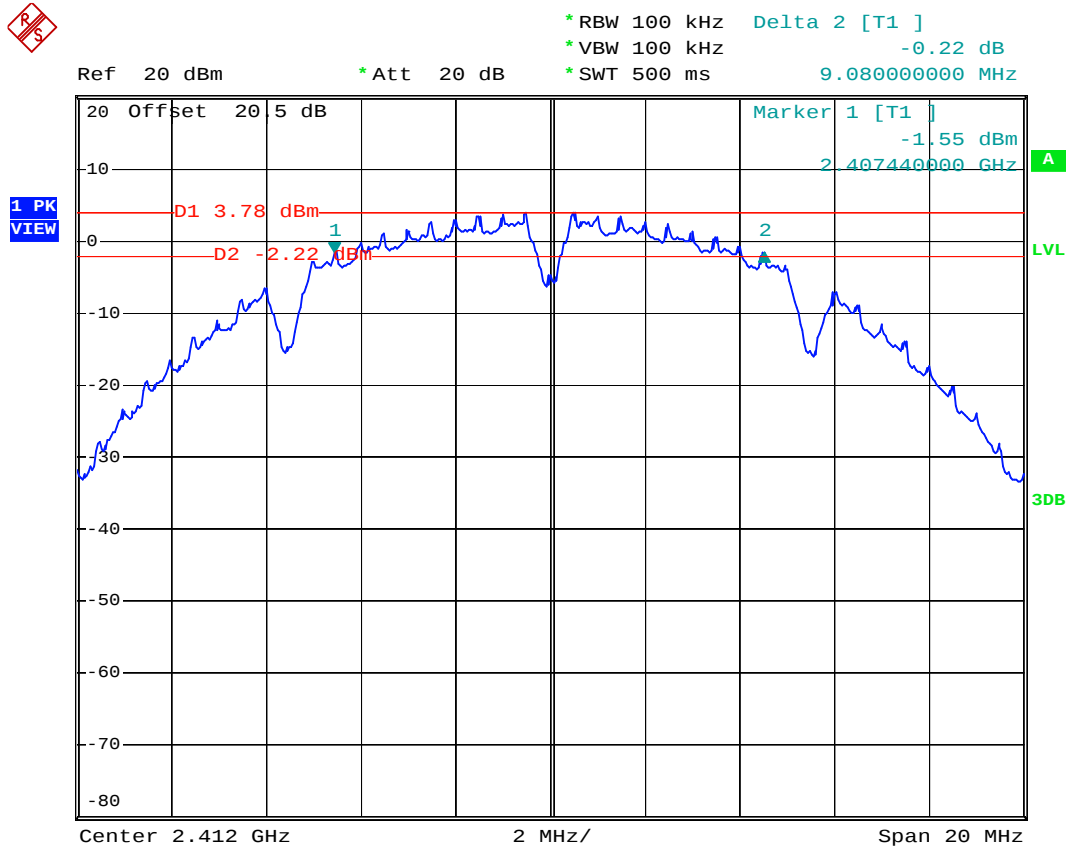
802.11a

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
149	5745	16.40	> 0.5MHz	Mode 7
157	5785	16.48	> 0.5MHz	Mode 8
165	5825	16.40	> 0.5MHz	Mode 9



5.1.5 6dB Bandwidth

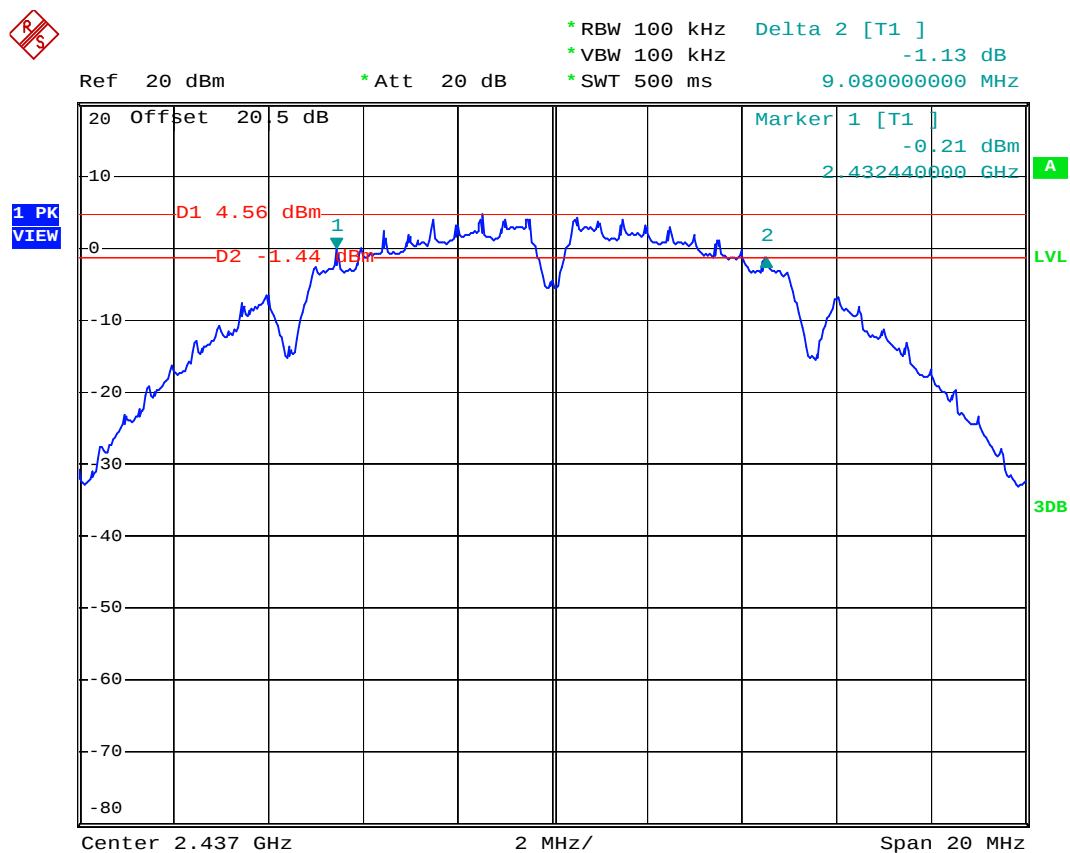
Mode 1



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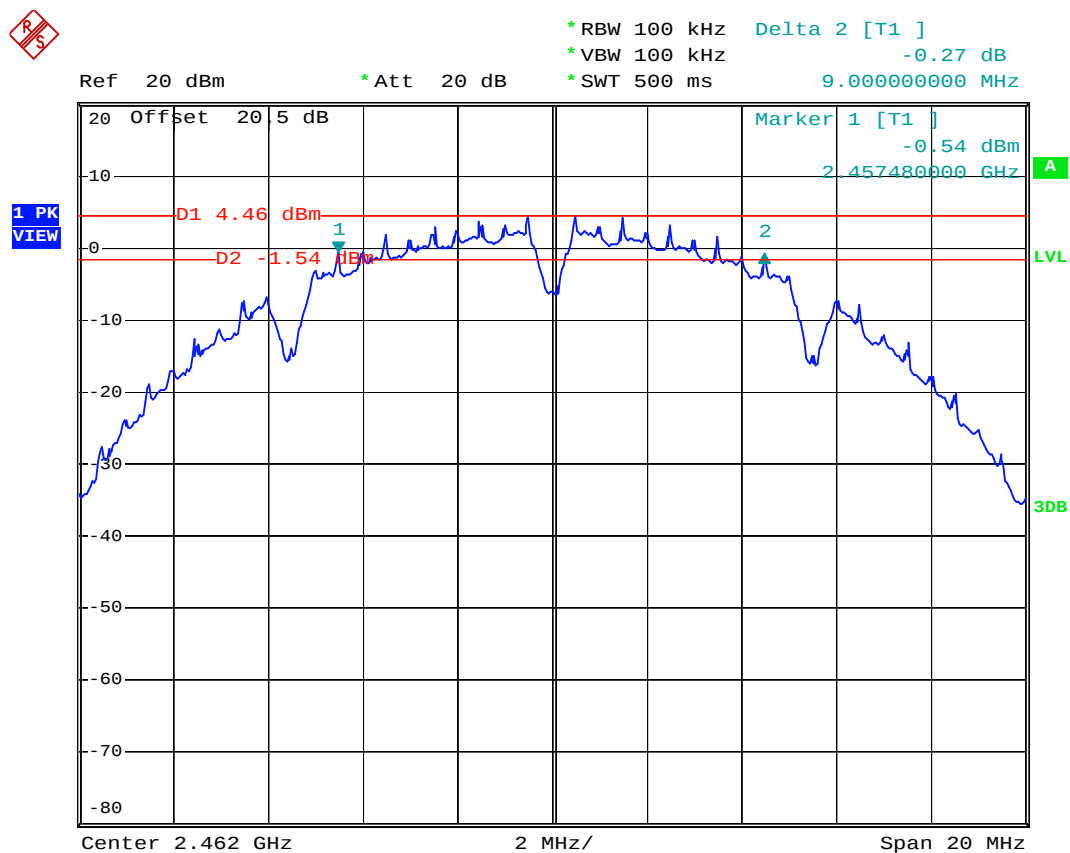
Mode 2



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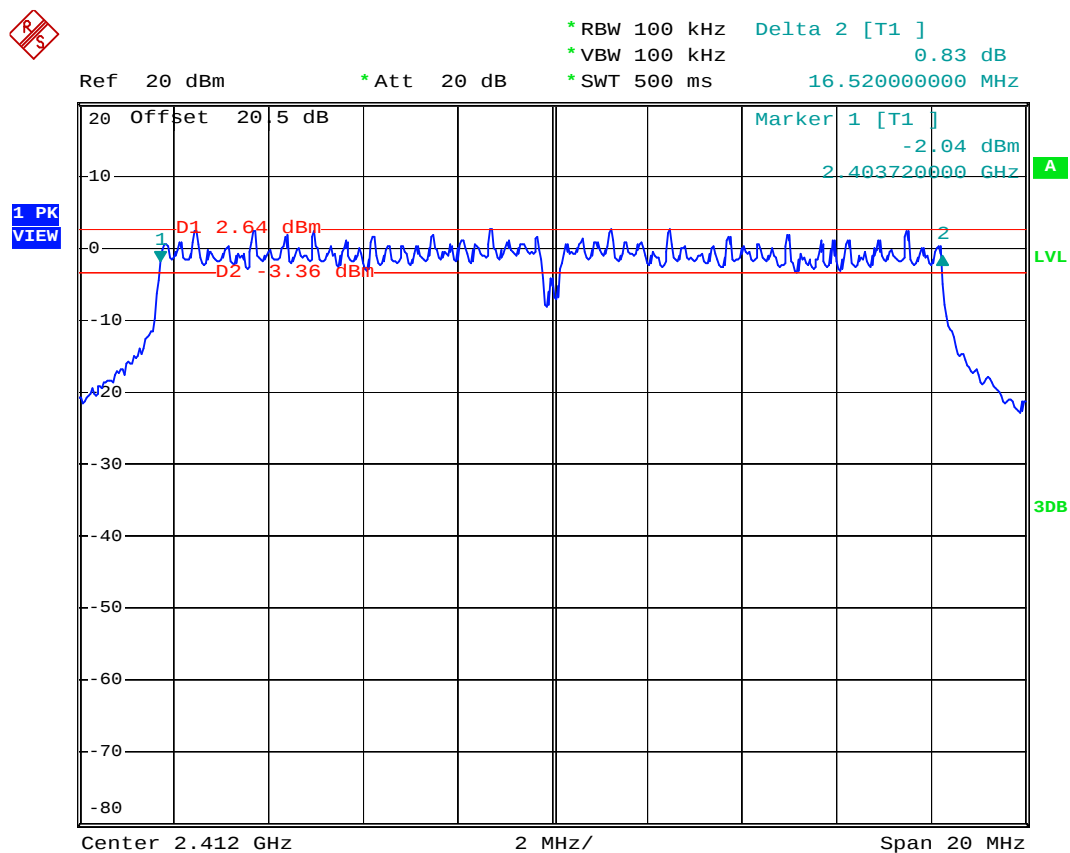
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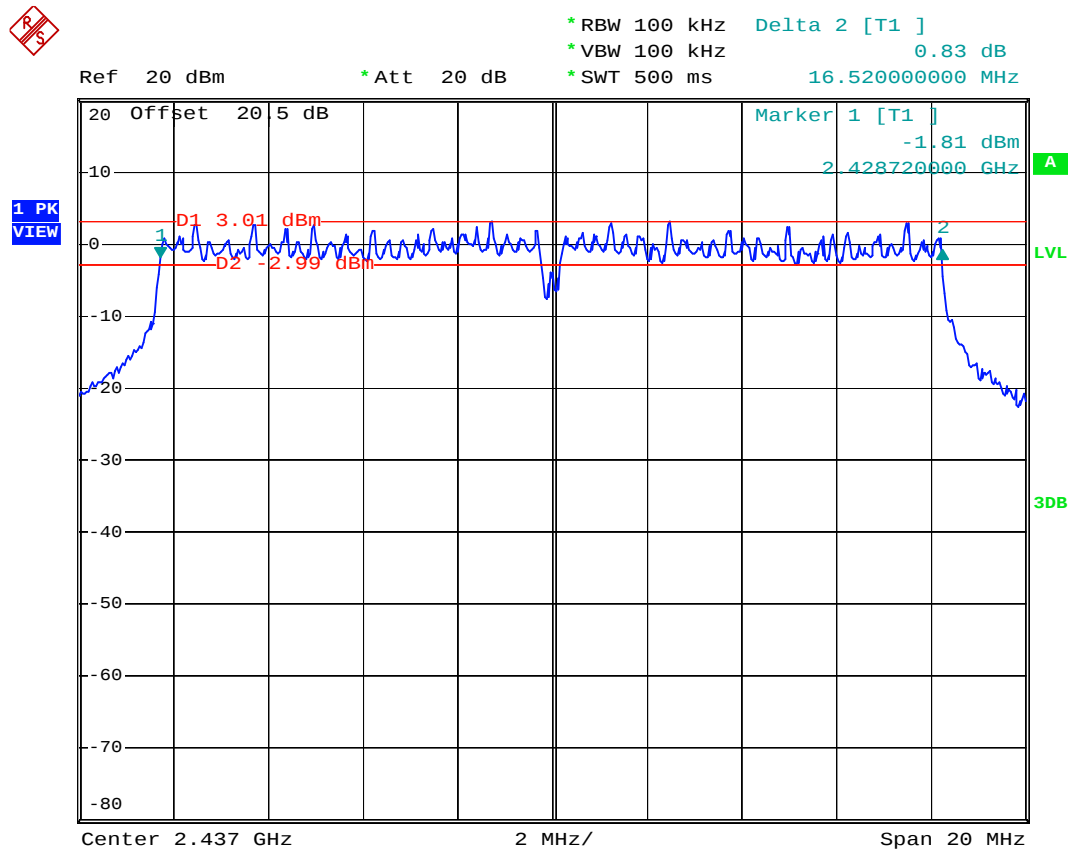
Mode 4



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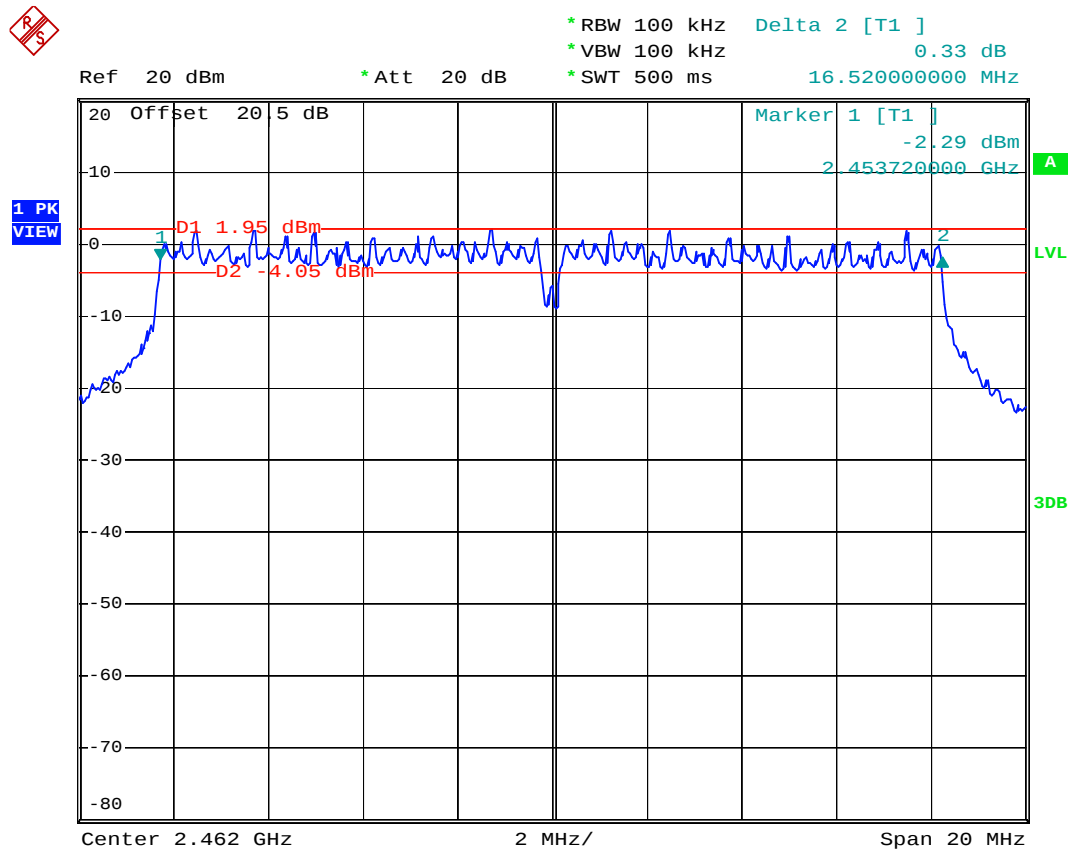
Mode 5



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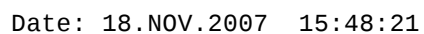
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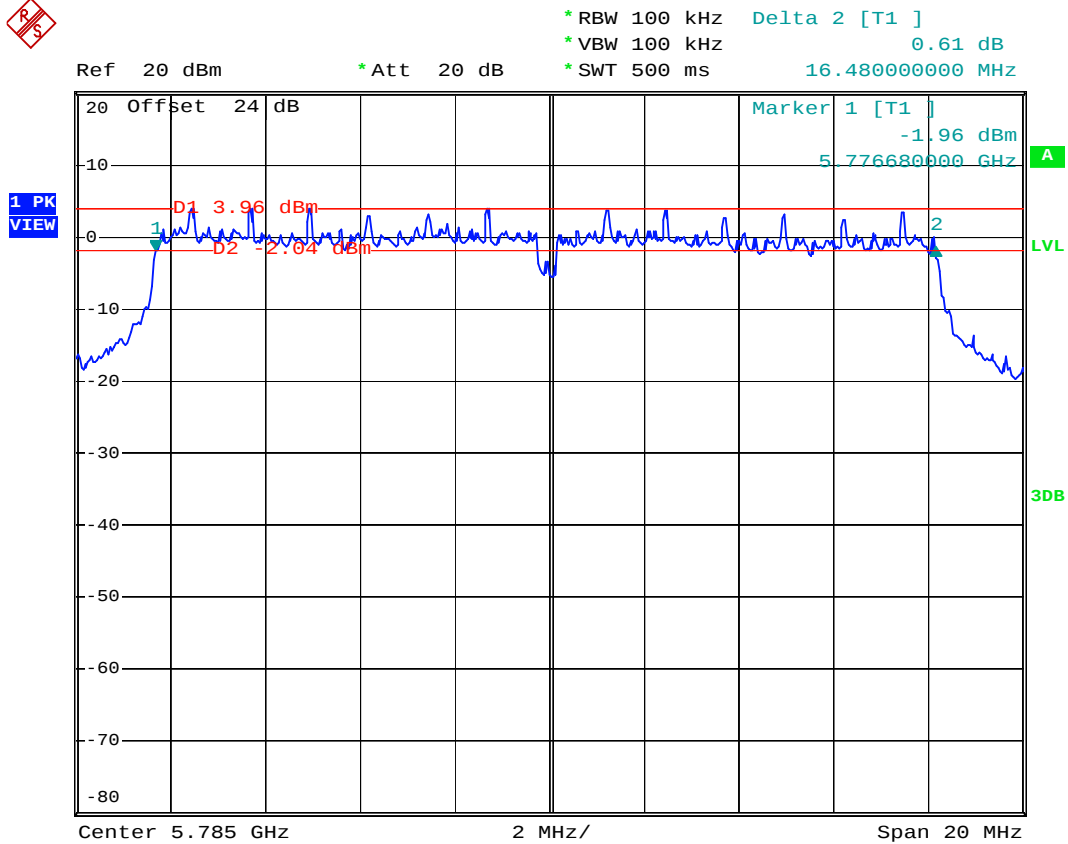


Mode 7





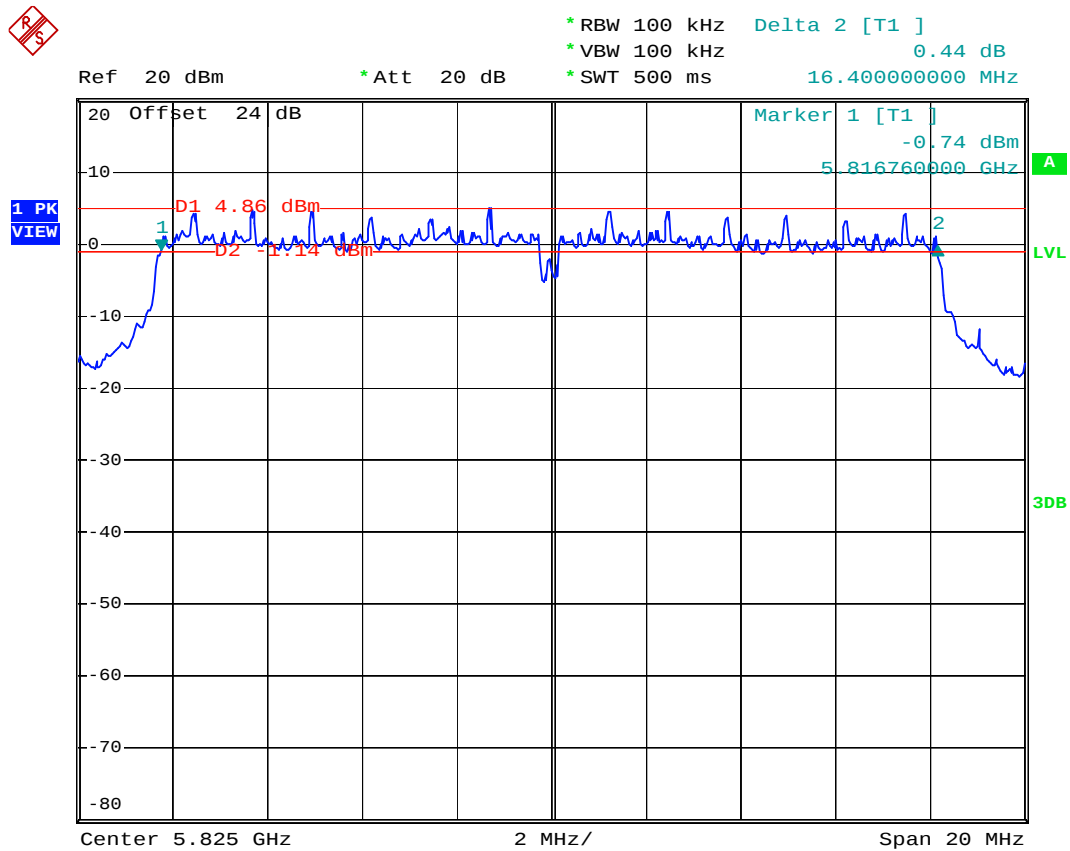
Mode 8



Date: 18.NOV.2007 15:49:50



Mode 9



Date: 18.NOV.2007 15:50:58

5.2 Power Spectral Density Measurement

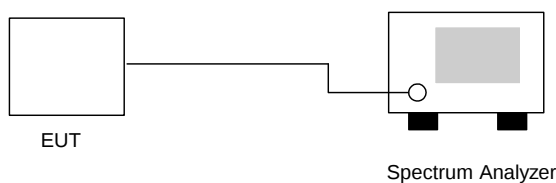
5.2.1 Measuring Instruments

As described in chapter 6 of this test report.

5.2.2 Test Procedure

1. The transmitter output was connected to spectrum analyzer directly.
2. The spectrum analyzer's resolution bandwidth was set at 3kHz RBW and 30kHz VBW as that of the fundamental frequency. Set the sweep time=span/3kHz.
3. The power spectral density was measured and recorded.
4. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

5.2.3 Test Setup Layout



5.2.4 Test Result

Application Type : 802.11a/b/g

Temperature : 25~26

Relative Humidity : 57~55%

 Test Enginner : Ken
802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-9.31	8	Mode 1
06	2437	-9.77	8	Mode 2
11	2462	-10.01	8	Mode 3

802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-10.56	8	Mode 4
06	2437	-10.01	8	Mode 5
11	2462	-12.25	8	Mode 6

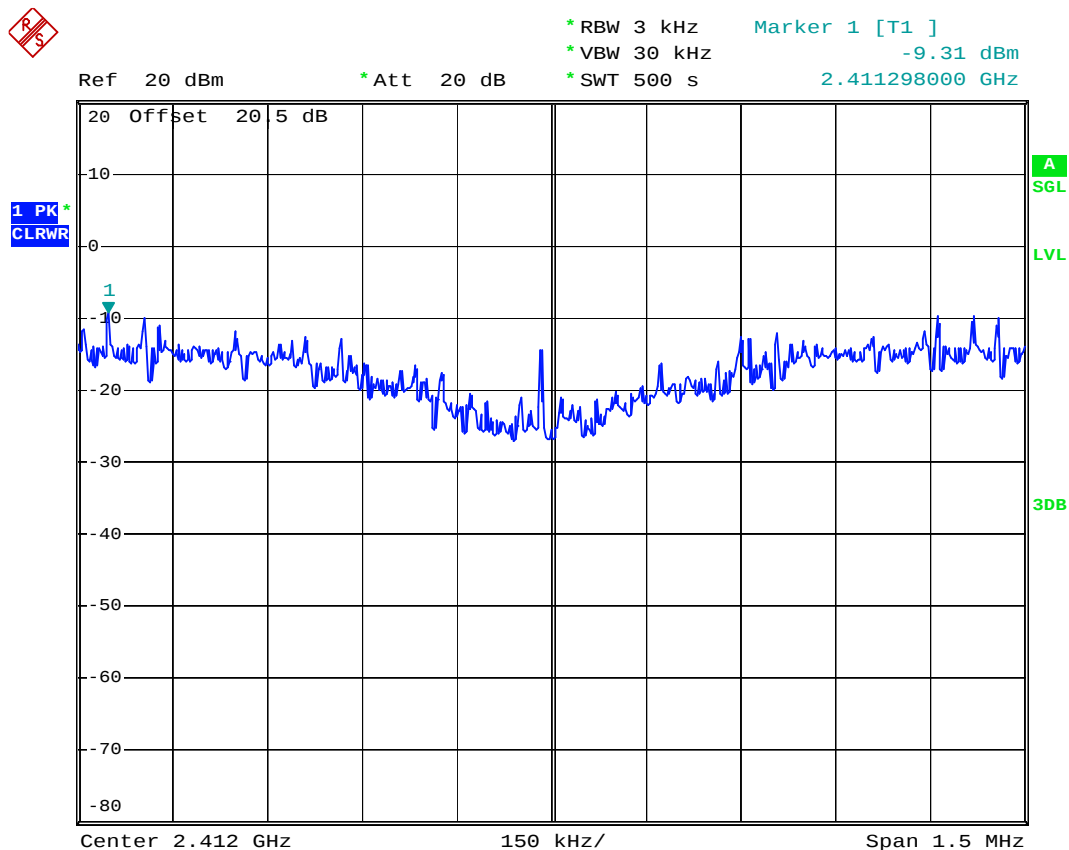
802.11a

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
149	5745	-7.04	8	Mode 7
157	5785	-6.64	8	Mode 8
165	5825	-6.89	8	Mode 9



5.2.5 Power Spectral Density

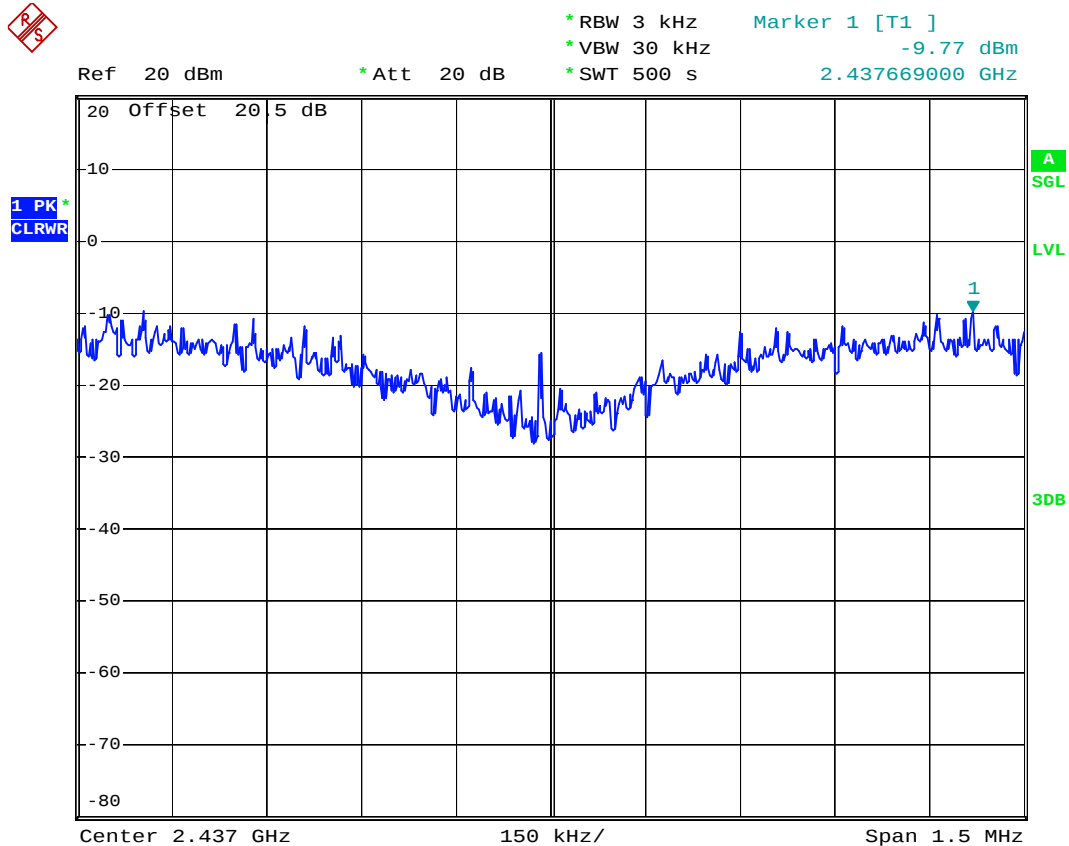
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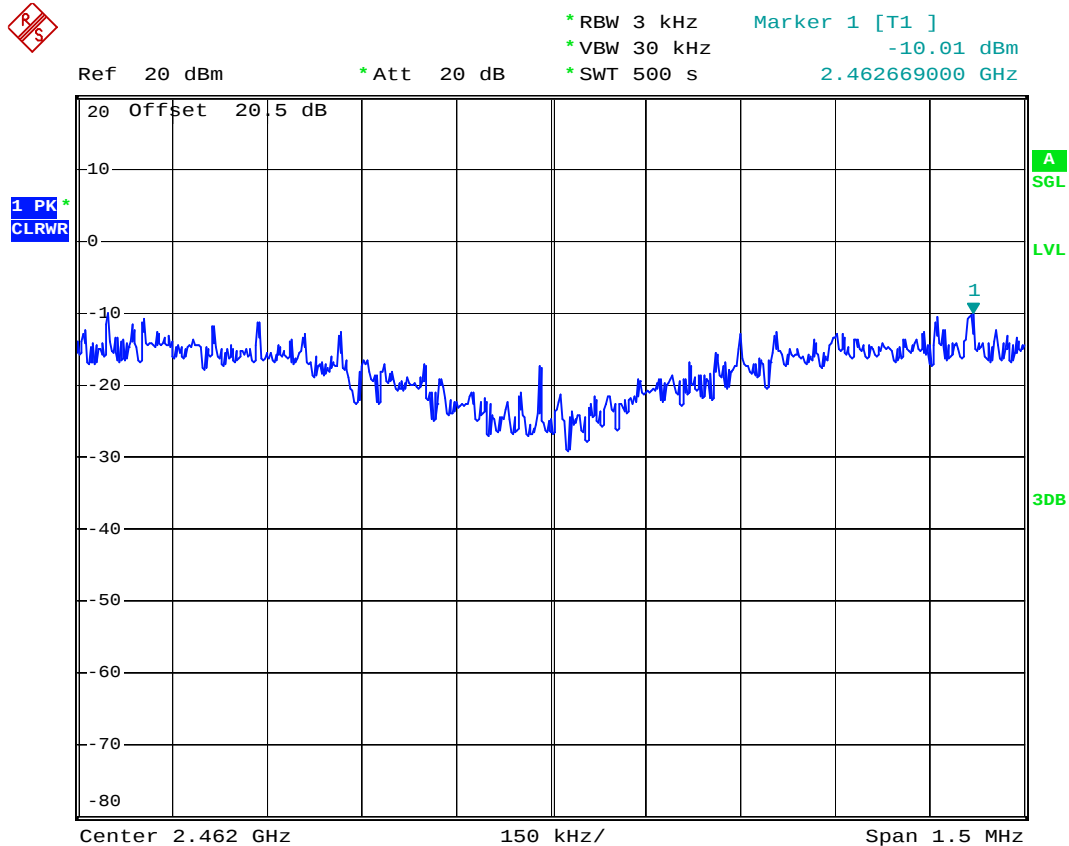
Mode 2



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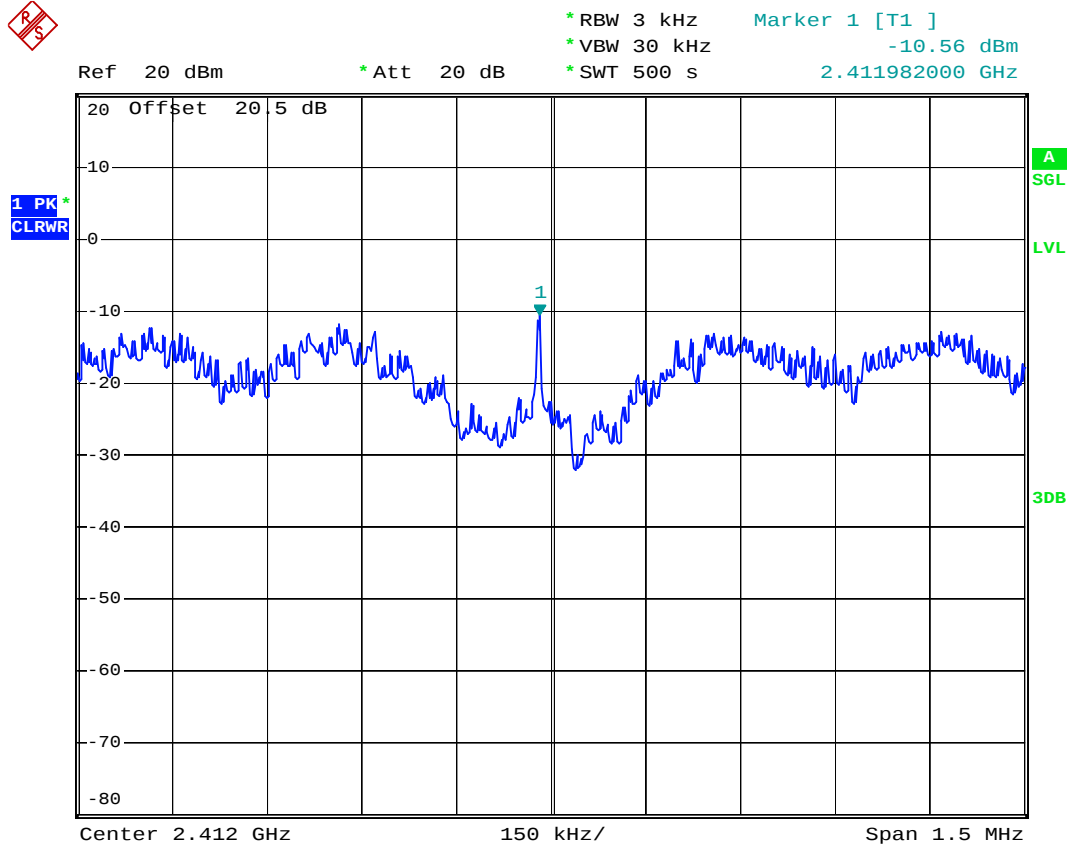
Mode 3



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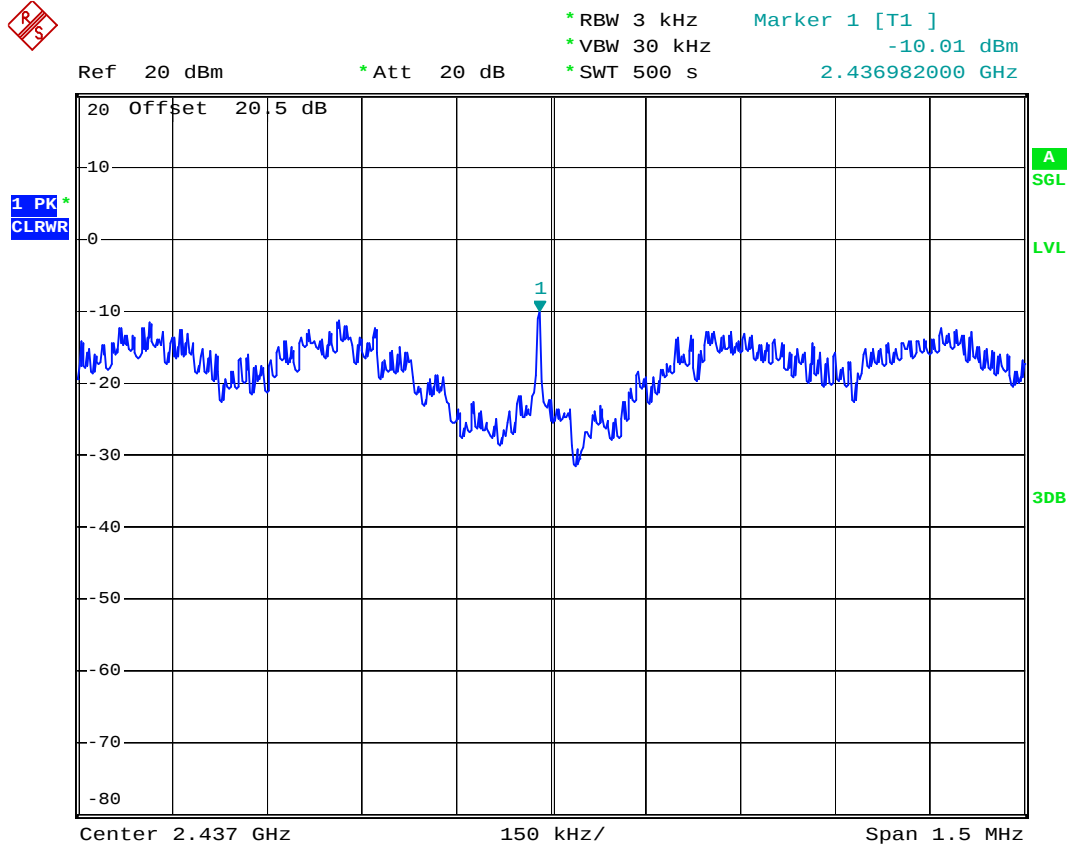
Mode 4



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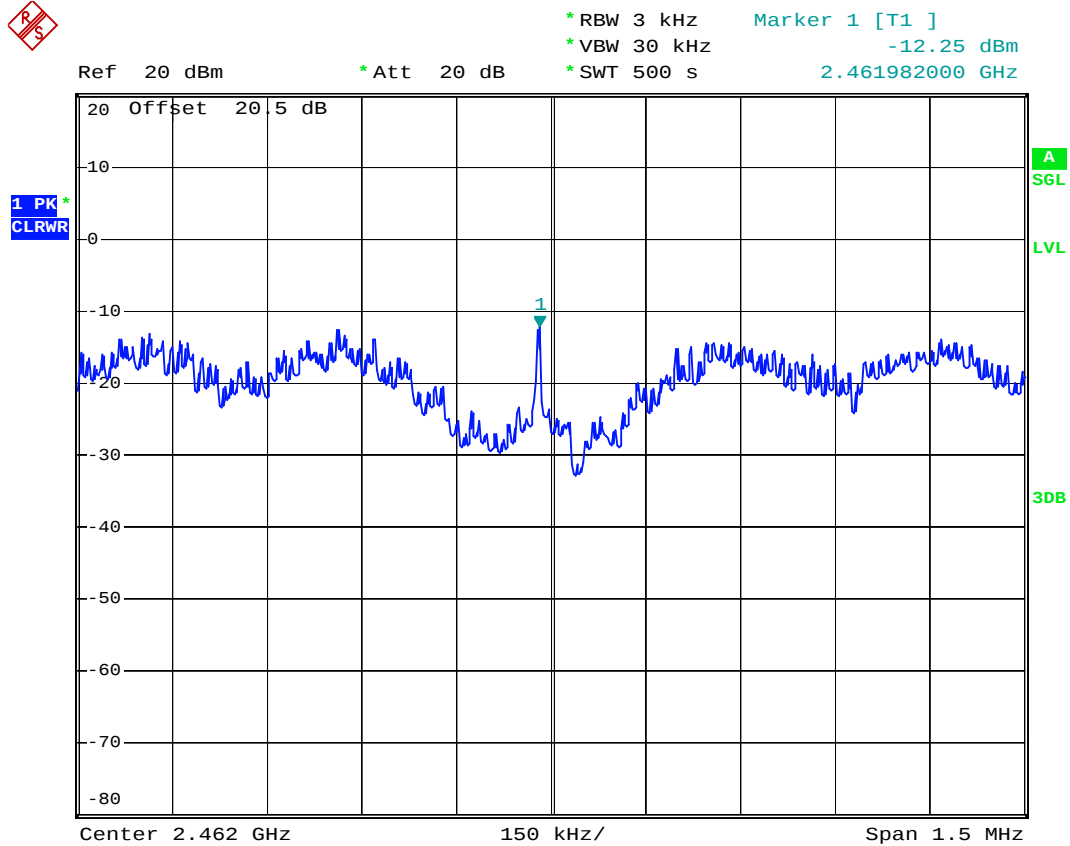
Mode 5



Date: 18.NOV.2007 19:36:23



➤ Mode 6



Date: 18.NOV.2007 19:45:08



Report No. : FR7O1819-01-D

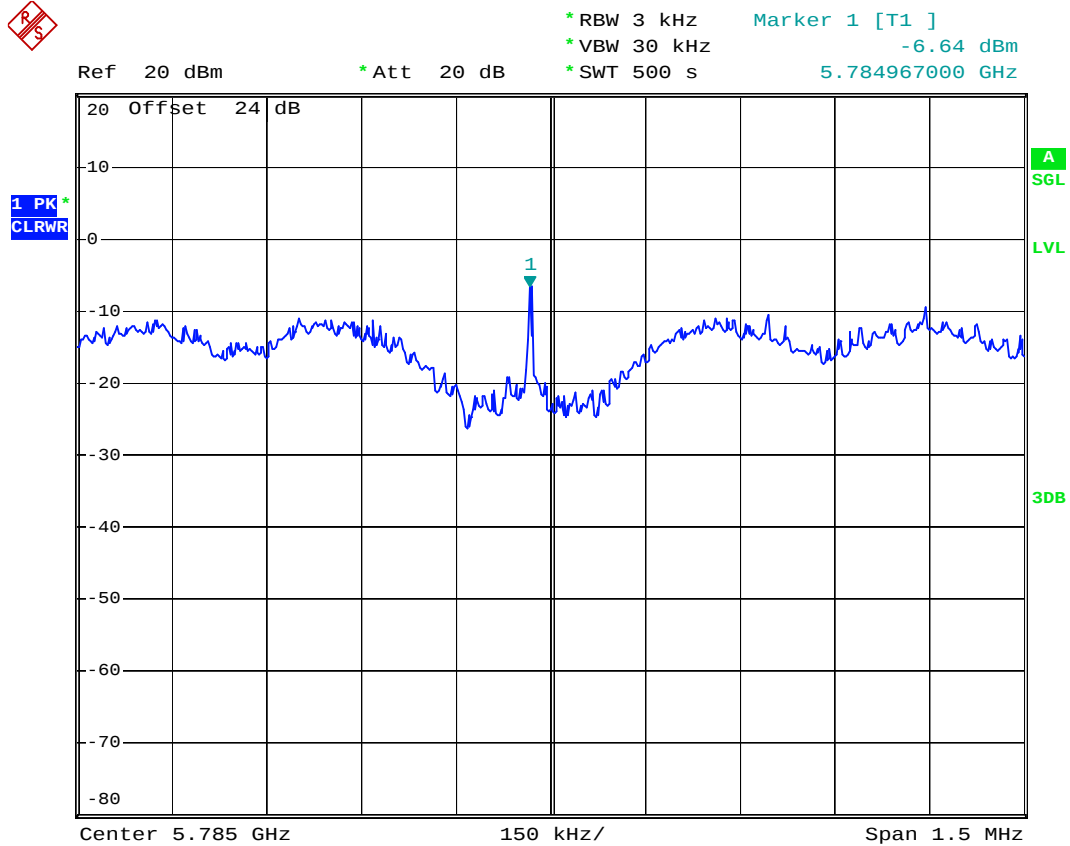


1 PK
VIEW

Date: 18.NOV.2007 15:48:21



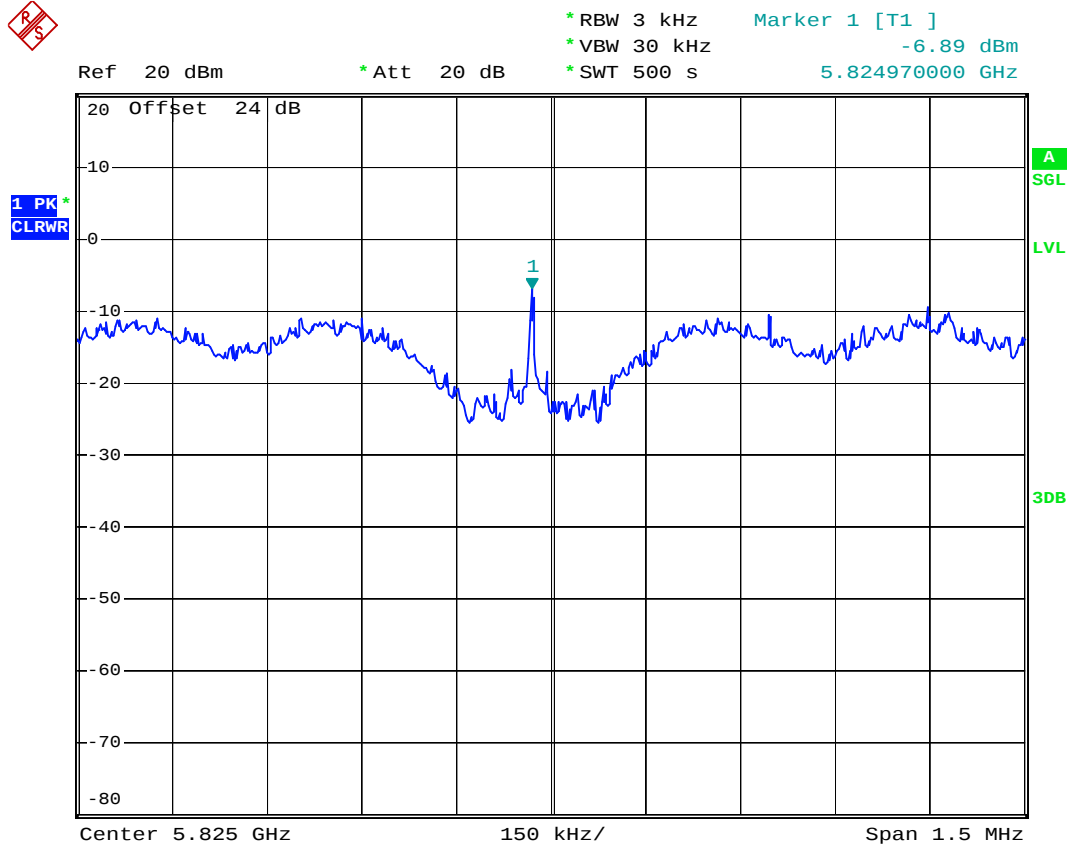
Mode 8



Date: 18.NOV.2007 16:13:33



Mode 9



Date: 18.NOV.2007 16:23:07



5.3 Band Edges Measurement

5.3.1 Measuring Instruments

As described in chapter 6 of this test report.

5.3.2 Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 kHz bandwidth from band edge.
3. The band edges was measured and recorded.

5.3.3 Test Result

Application Type : WLAN 802.11a/b/g

Temperature : 25~26

Relative Humidity : 57~55%

Test Enginner : Ken

Test Result in WLAN lower band (802.11a/b/g) : PASS

Test Result in WLAN higher band (802.11a/b/g) : PASS

**5.3.4 Note on Band Edge Emission****➤WLAN 802.11b**

CH01 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2386.38	48.31	-25.69	74.00	45.81	32.54	3.74	33.78	100	0	Peak
2386.38	36.13	-17.87	54.00	33.63	32.54	3.74	33.78	100	129	Average

CH01 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2387.33	49.24	-24.76	74.00	46.74	32.54	3.74	33.78	100	0	Peak
2387.33	37.72	-16.28	54.00	35.22	32.54	3.74	33.78	100	95	Average

CH11 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.66	47.61	-26.39	74.00	44.98	32.59	3.84	33.80	100	0	Peak
2483.66	37.25	-16.75	54.00	34.62	32.59	3.84	33.80	128	147	Average

CH11 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2487.65	47.32	-26.68	74.00	44.68	32.60	3.84	33.80	100	0	Peak
2487.65	40.45	-13.55	54.00	37.81	32.60	3.84	33.80	100	96	Average

**➤WLAN 802.11g****CH01 (Horizontal)**

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	65.57	-8.43	74.00	63.07	32.54	3.74	33.78	100	0	Peak
2390.00	40.88	-13.12	54.00	38.38	32.54	3.74	33.78	100	95	Average

CH01 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	62.84	-11.16	74.00	60.34	32.54	3.74	33.78	100	0	Peak
2390.00	39.43	-14.57	54.00	36.93	32.54	3.74	33.78	100	130	Average

CH11 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2485.18	63.66	-10.34	74.00	61.03	32.59	3.84	33.80	100	0	Peak
2485.18	38.67	-15.33	54.00	36.04	32.59	3.84	33.80	125	148	Average

CH11 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.50	61.63	-12.37	74.00	59.00	32.59	3.84	33.80	100	0	Peak
2483.50	37.92	-16.08	54.00	35.29	32.59	3.84	33.80	100	93	Average

**➤WLAN 802.11a****CH149 (Horizontal)**

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5670.00	55.17	-18.83	74.00	47.88	35.34	6.02	34.07	100	0	Peak
5670.00	41.48	-12.52	54.00	34.19	35.34	6.02	34.07	100	305	Average

CH149 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
6436.00	53.69	-20.31	74.00	44.61	35.97	6.17	33.07	100	0	Peak
6436.00	39.80	-14.20	54.00	30.72	35.97	6.17	33.07	107	45	Average

CH165(Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
6614.00	53.20	-20.80	74.00	43.78	36.00	6.23	32.82	100	0	Peak
6614.00	40.37	-13.63	54.00	30.95	36.00	6.23	32.82	119	40	Average

CH165 (Vertical)

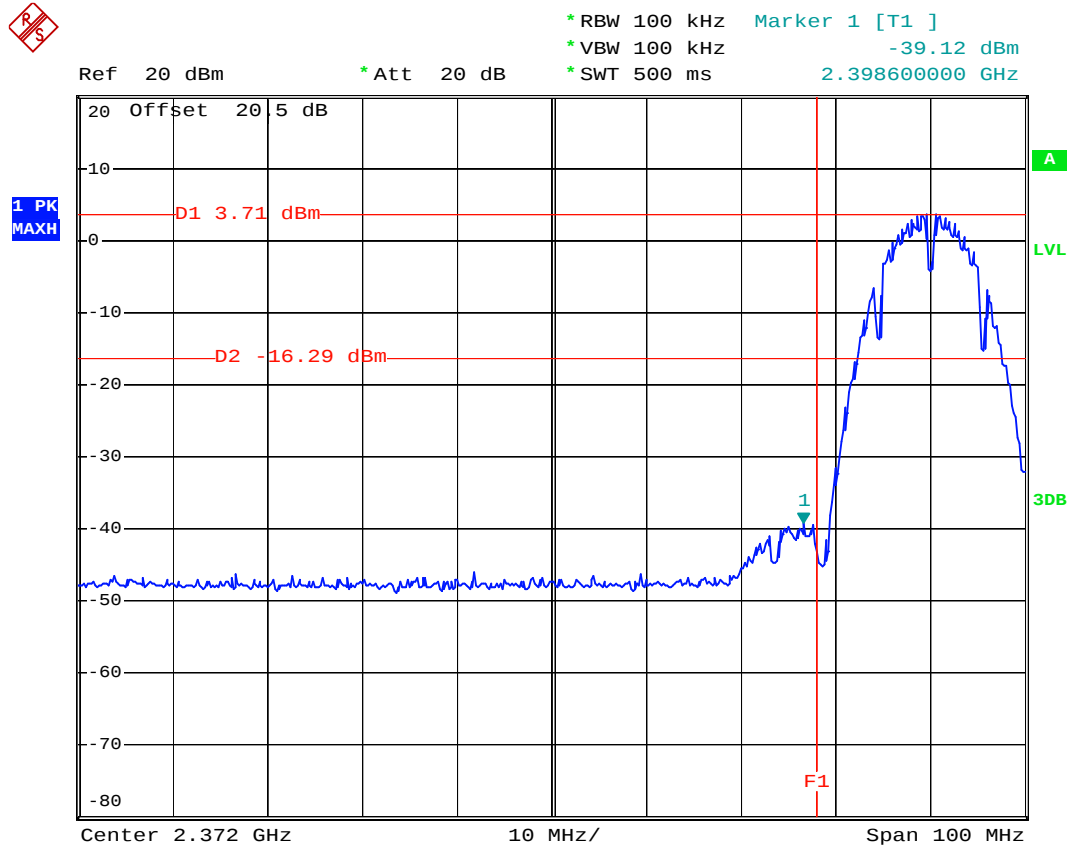
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
6814.00	53.48	-20.52	74.00	43.83	36.00	6.30	32.65	100	0	Peak
3847.00	40.00	-14.00	54.00	30.35	36.00	6.30	32.65	101	24	Average



5.3.5 20dB Band Edge

WLAN 802.11b

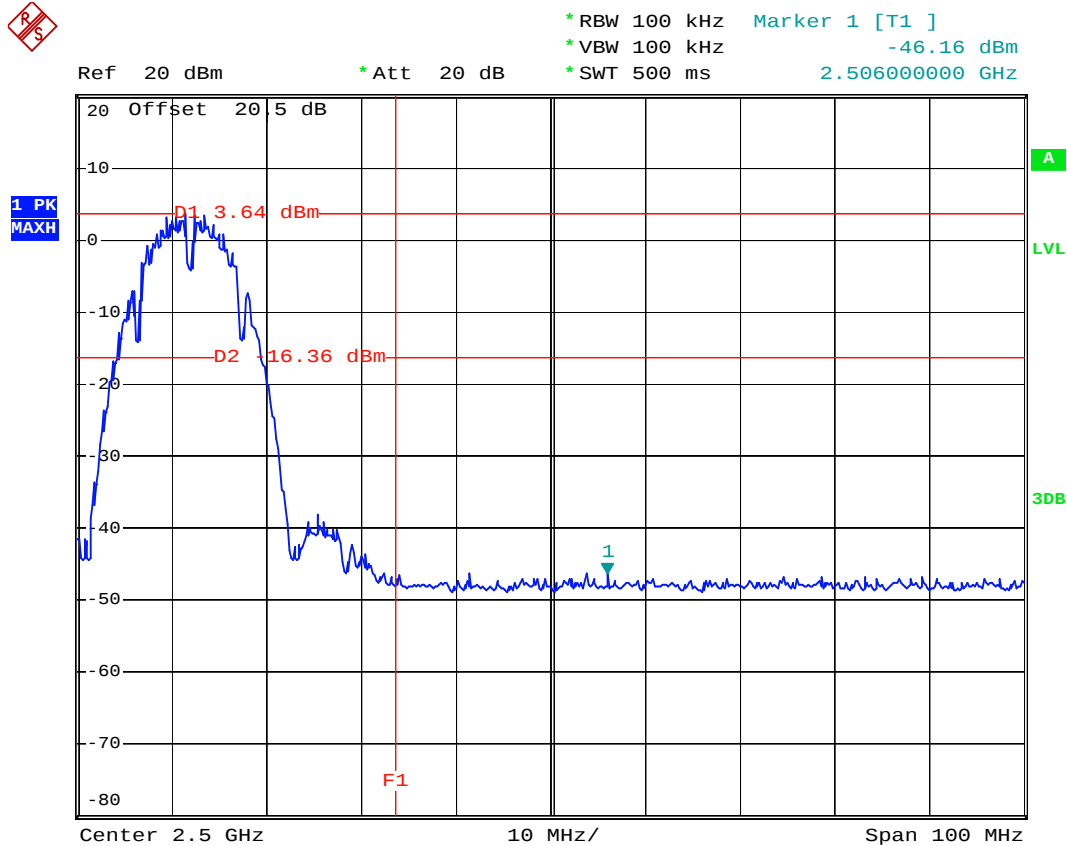
CH01



Date: 18.NOV.2007 15:37:09



CH11



Date: 18.NOV.2007 15:39:00

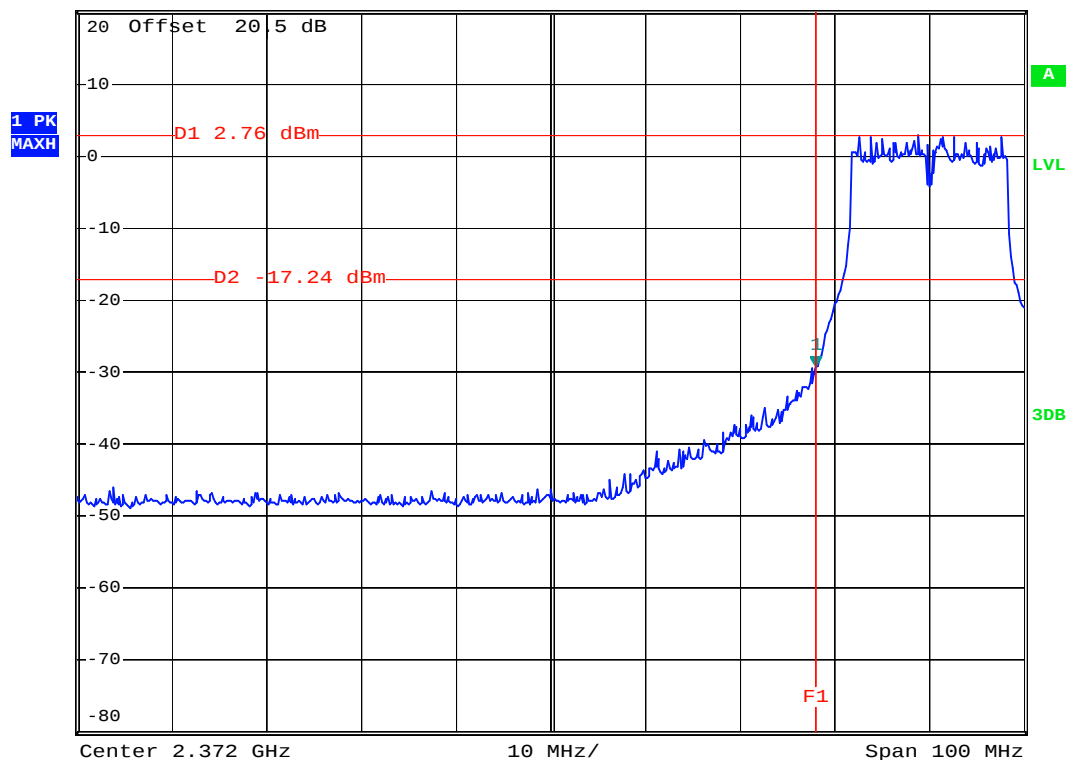


WLAN 802.11g

CH01



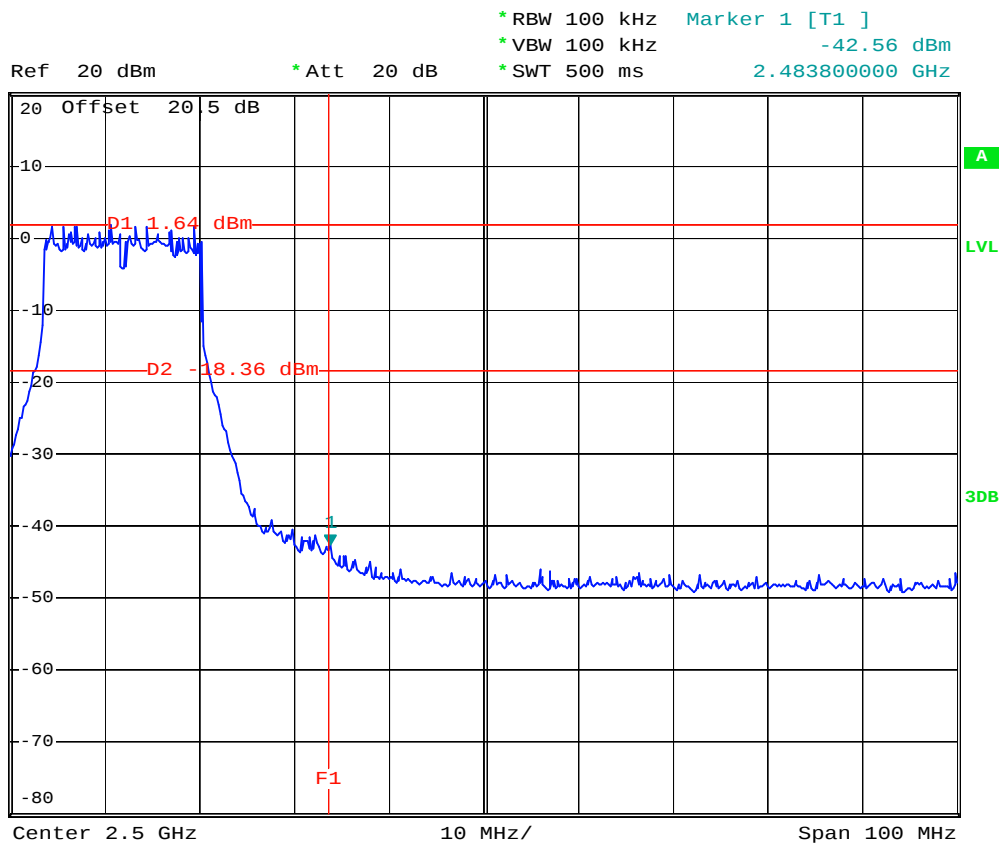
Ref 20 dBm * Att 20 dB * RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -29.10 dBm
* SWT 500 ms 2.400000000 GHz



Date: 18.NOV.2007 15:34:31



CH11

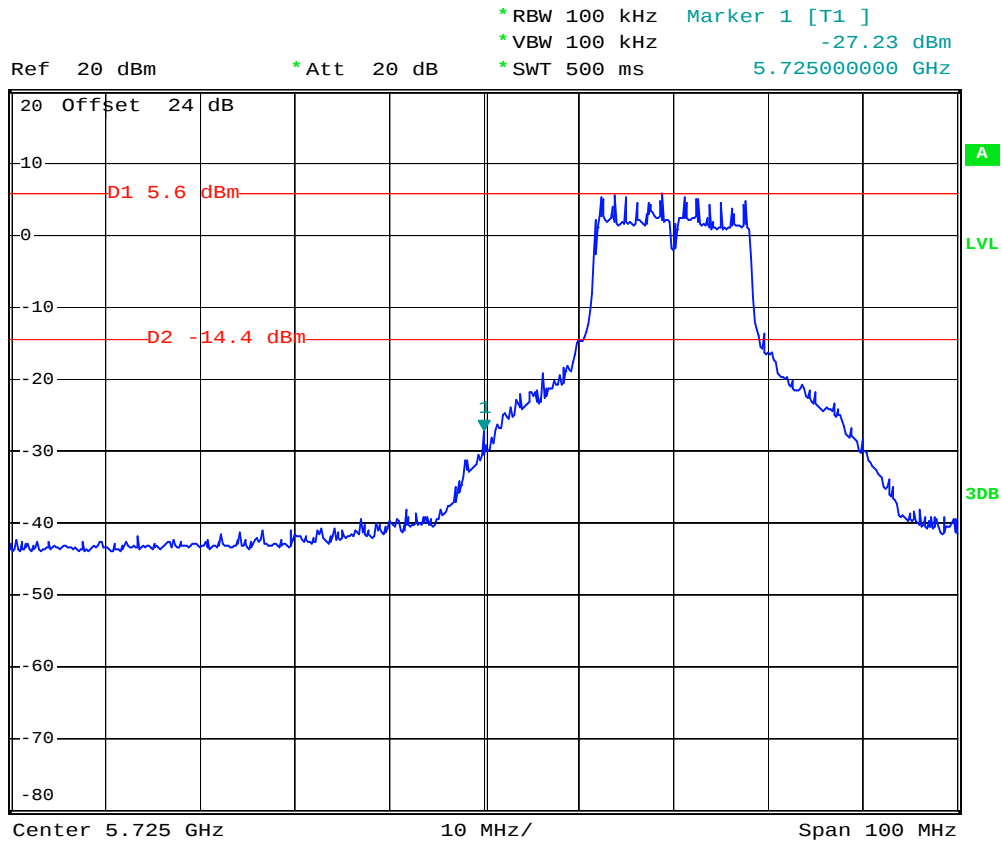


Date: 18.NOV.2007 15:40:14



WLAN 802.11a

CH149



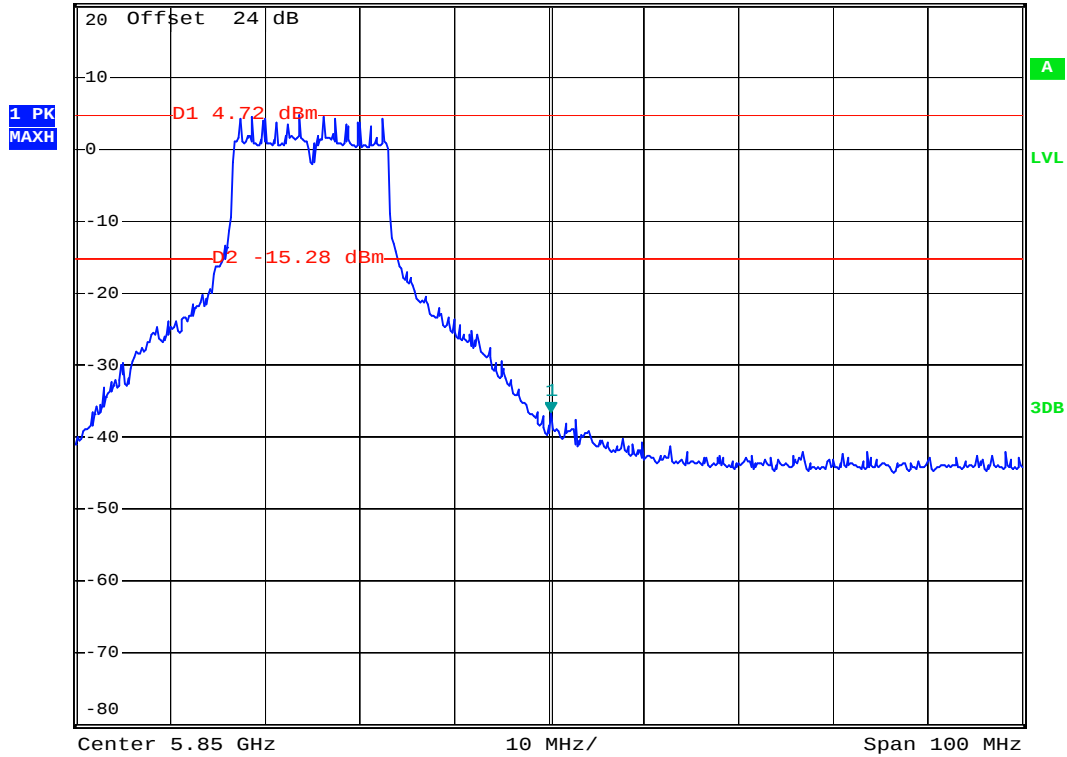
Date: 18.NOV.2007 15:54:11



CH165



Ref 20 dBm * Att 20 dB * RBW 100 kHz Marker 1 [T1] * VBW 100 kHz -36.53 dBm * SWT 500 ms 5.850200000 GHz



Date: 18.NOV.2007 15:52:21

5.4 Peak Output Power Measurement

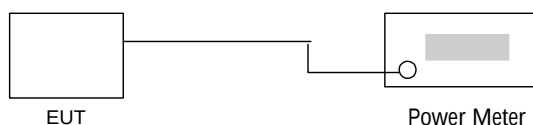
5.4.1 Measuring Instruments

As described in chapter 6 of this test report.

5.4.2 Test Procedure

1. The antenna port(RF output) of the EUT was connected to the input(RF input)of a power meter for WLAN measurement. The power is equal to the reading level on power meter plus cable loss at the EUT antenna terminal.
2. The antenna port (RF output) of the EUT was connected to the input (RF input) of a spectrum analyzer for BT measurement. RBW and VBW are set to 3MHz. The cable loss has been offset before testing.

5.4.3 Test Setup Layout



5.4.4 Test Result

Application Type : WLAN 802.11a/b/g

Temperature : 25~26

Relative Humidity : 57~55%

 Test Enginner : Ken
WLAN 802.11b

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	14.52	1W/30 dBm
06	2437	14.86	1W/30 dBm
11	2462	14.13	1W/30 dBm

WLAN 802.11g

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	15.01	1W/30 dBm
06	2437	15.40	1W/30 dBm
11	2462	14.00	1W/30 dBm

WLAN 802.11a

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
149	5745	17.06	1W/30 dBm
157	5785	16.51	1W/30 dBm
165	5825	16.92	1W/30 dBm

5.5 Conducted Emission

5.5.1 Measuring Instruments

As described in chapter 6 of this test Report.

The receiver setting :

150 KHz ~ 30 MHz	Detector : Quasi – Peak and Average Bandwidth : 9 KHz
------------------	--

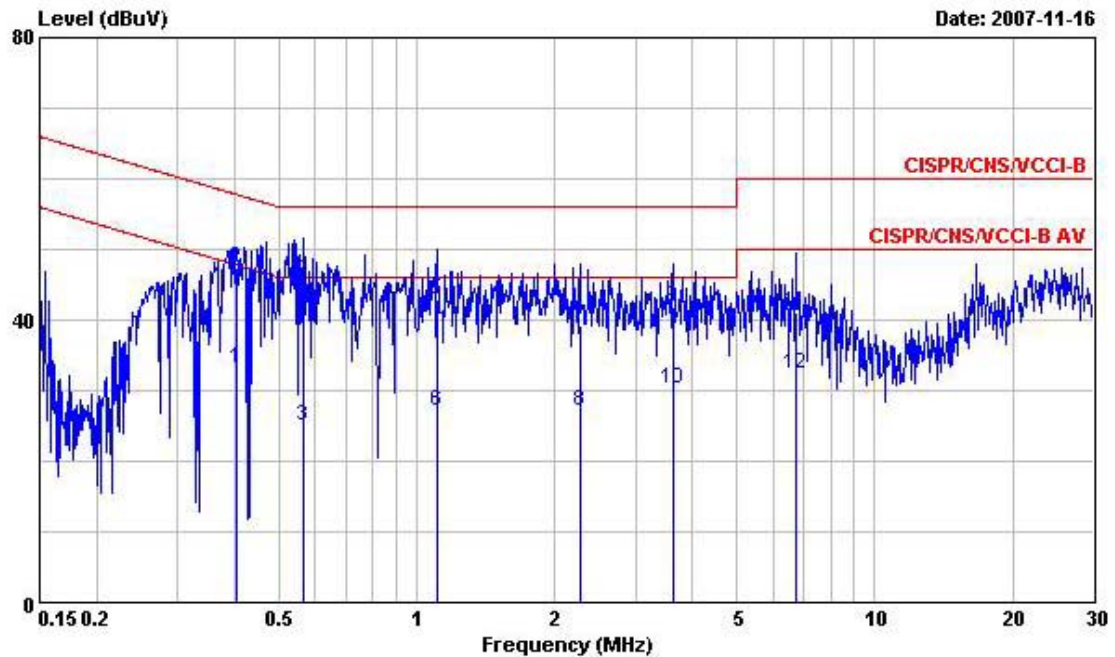
5.5.2 Test Procedures :

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power port of a line impedance stabilization network (LISN).
- All the support units are connected to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

5.5.3 Test Data

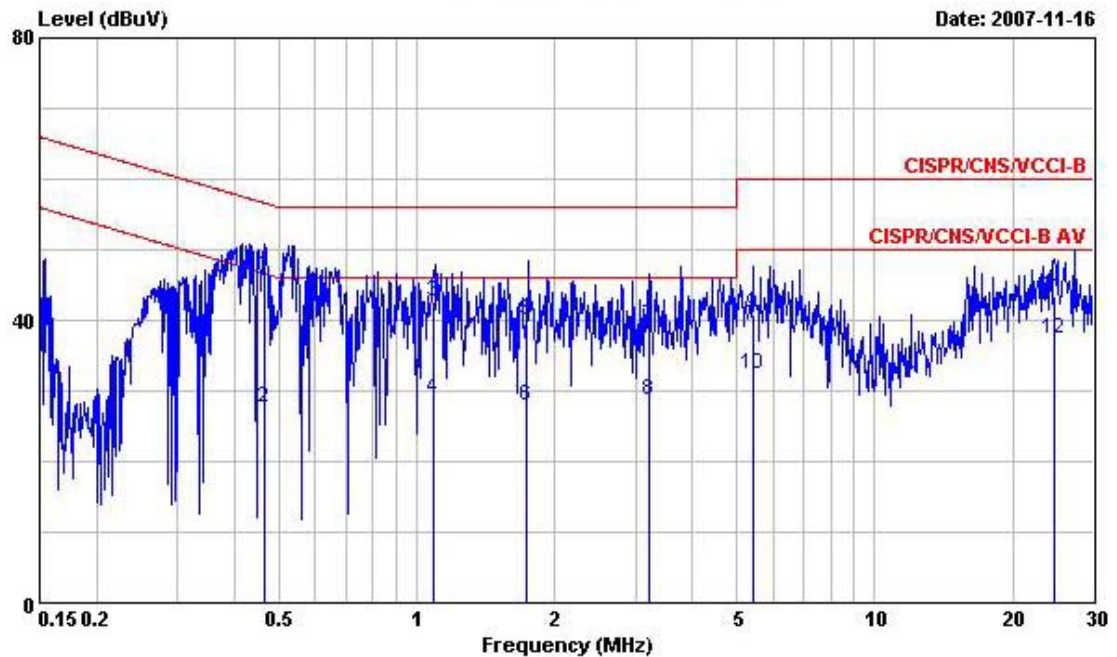
Temperature : 25~26
 Relative Humidity : 57~55%
 Test Enginner : James
 Test Mode : Mode 1

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : N/B
 POWER: 120V/60Hz
 Model : FR7O1819-01
 Memo : WLAN Link+BT Link+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.4040020	33.12	-14.65	47.77	32.29	0.10	0.73	Average
2	@0.4040020	47.24	-10.53	57.77	46.41	0.10	0.73	QP
3	0.5640910	24.92	-21.08	46.00	24.20	0.10	0.62	Average
4	@0.5640910	45.88	-10.12	56.00	45.16	0.10	0.62	QP
5	1.110	42.93	-13.07	56.00	42.39	0.10	0.44	QP
6	1.110	27.23	-18.77	46.00	26.69	0.10	0.44	Average
7	2.270	39.25	-16.75	56.00	38.74	0.10	0.41	QP
8	2.270	27.03	-18.97	46.00	26.52	0.10	0.41	Average
9	3.620	41.95	-14.05	56.00	41.51	0.10	0.34	QP
10	3.620	30.36	-15.64	46.00	29.92	0.10	0.34	Average
11	6.700	41.14	-18.86	60.00	40.72	0.16	0.26	QP
12	6.700	32.25	-17.75	50.00	31.83	0.16	0.26	Average



Site : CO04-HY

Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL

EUT : N/B

POWER: 120V/60Hz

Model : FR7O1819-01

Memo : WLAN Link+BT Link+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	@0.4661350	46.20	-10.38	56.58	45.42	0.10	0.68	QP
2	0.4661350	27.61	-18.97	46.58	26.83	0.10	0.68	Average
3	1.090	42.59	-13.41	56.00	42.05	0.10	0.44	QP
4	1.090	29.02	-16.98	46.00	28.48	0.10	0.44	Average
5	1.740	39.89	-16.11	56.00	39.36	0.10	0.43	QP
6	1.740	27.87	-18.13	46.00	27.34	0.10	0.43	Average
7	3.220	39.11	-16.89	56.00	38.59	0.17	0.35	QP
8	3.220	28.75	-17.25	46.00	28.23	0.17	0.35	Average
9	5.420	40.66	-19.34	60.00	40.14	0.23	0.29	QP
10	5.420	32.26	-17.74	50.00	31.74	0.23	0.29	Average
11	24.660	43.35	-16.65	60.00	43.05	0.30	0.00	QP
12	24.660	37.40	-12.60	50.00	37.10	0.30	0.00	Average

5.6 Radiated Emission Measurement

5.6.1 Measuring Instruments

As described in chapter 6 of this Report.

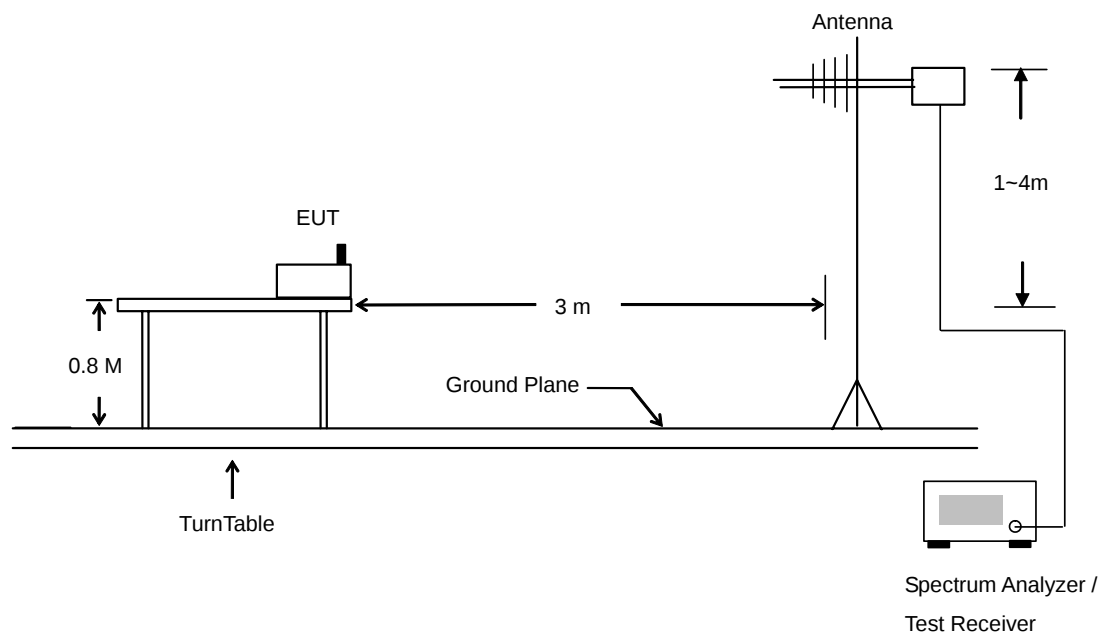
The spectrum analyzer setting :

30 ~ 1000 MHz	Detector : Quasi – Peak Bandwidth : 120 KHz
1 ~ 25 GHz	Detector : Peak and Average Bandwidth : 1 MHz

5.6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.6.3 Typical Test Setup Layout of Radiated Emission





5.6.4 Test Data

Temperature : 24~25°C

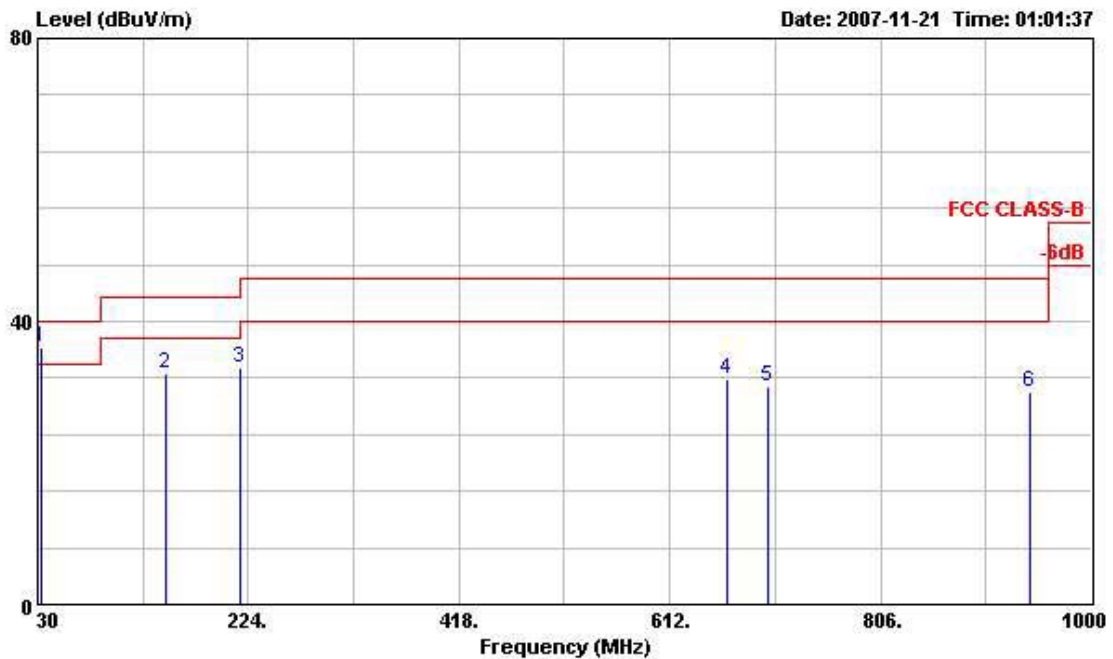
Relative Humidity : 53~55%

Test Engineer : Andrew

Test Mode : Mode 1

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

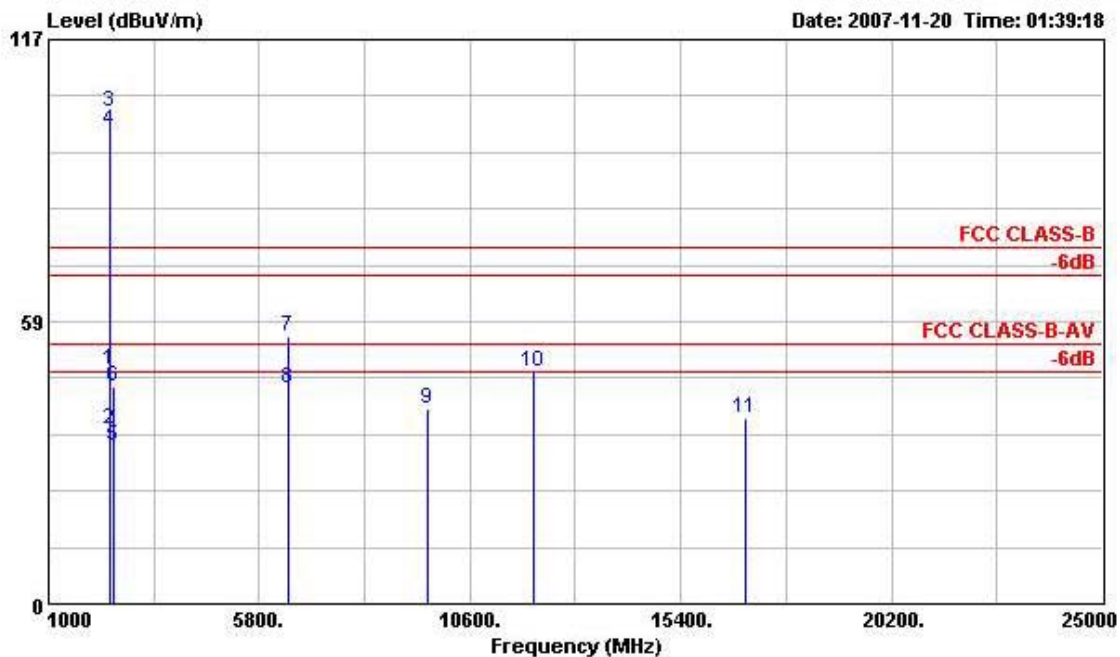
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11b Tx_CH01;2412MHz

Data Rate: 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.970	36.19	-3.81	40.00	47.23	16.33	0.90	28.26	100	136	Peak
2	147.450	32.63	-10.87	43.50	48.27	10.72	1.65	28.01	---	---	Peak
3	216.300	33.34	-12.66	46.00	49.19	9.98	1.94	27.77	---	---	Peak
4	665.400	31.77	-14.23	46.00	37.37	20.06	3.45	29.10	---	---	Peak
5	701.800	30.77	-15.23	46.00	36.23	20.13	3.50	29.10	---	---	Peak
6	943.300	29.92	-16.08	46.00	30.03	24.62	3.98	28.71	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH01;2412MHz
 Data Rate: 1

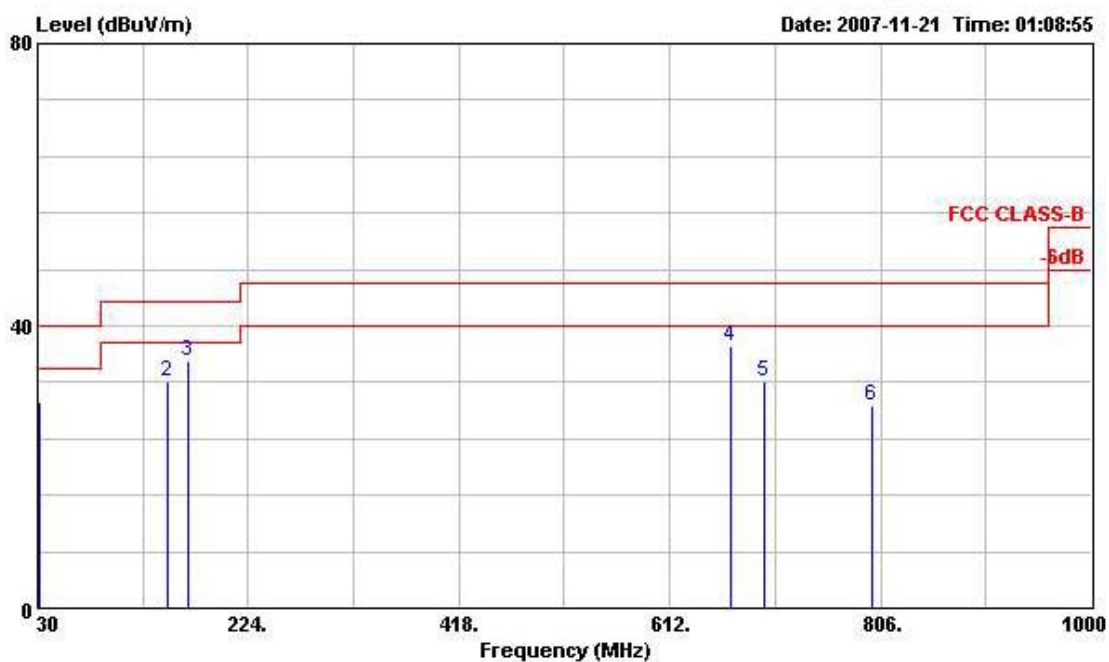
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2386.380	48.31	-25.69	74.00	45.81	32.54	3.74	33.78	100	0 Peak
2	2386.380	36.13	-17.87	54.00	33.63	32.54	3.74	33.78	100	129 Average
3 X	2412.000	102.10			99.57	32.55	3.76	33.78	100	0 Peak
4 @	2412.000	98.10			95.57	32.55	3.76	33.78	100	129 Average
5	2492.000	32.84	-21.16	54.00	30.20	32.60	3.84	33.80	100	129 Average
6	2492.000	45.02	-28.98	74.00	42.38	32.60	3.84	33.80	100	0 Peak
7	6465.000	55.35	-18.65	74.00	46.19	35.98	6.19	33.01	100	0 Peak
8	6465.000	44.62	-9.38	54.00	35.46	35.98	6.19	33.01	100	171 Average
9	9645.000	40.23	-33.77	74.00	77.72	-10.09	7.60	35.00	100	0 Peak
10	12054.000	48.25	-25.75	74.00	84.62	-9.77	7.87	34.47	100	0 Peak
11	16881.000	38.62	-35.38	74.00	73.66	-10.20	9.19	34.03	100	0 Peak

Remark: #3 and #4 are Fundamental Signal



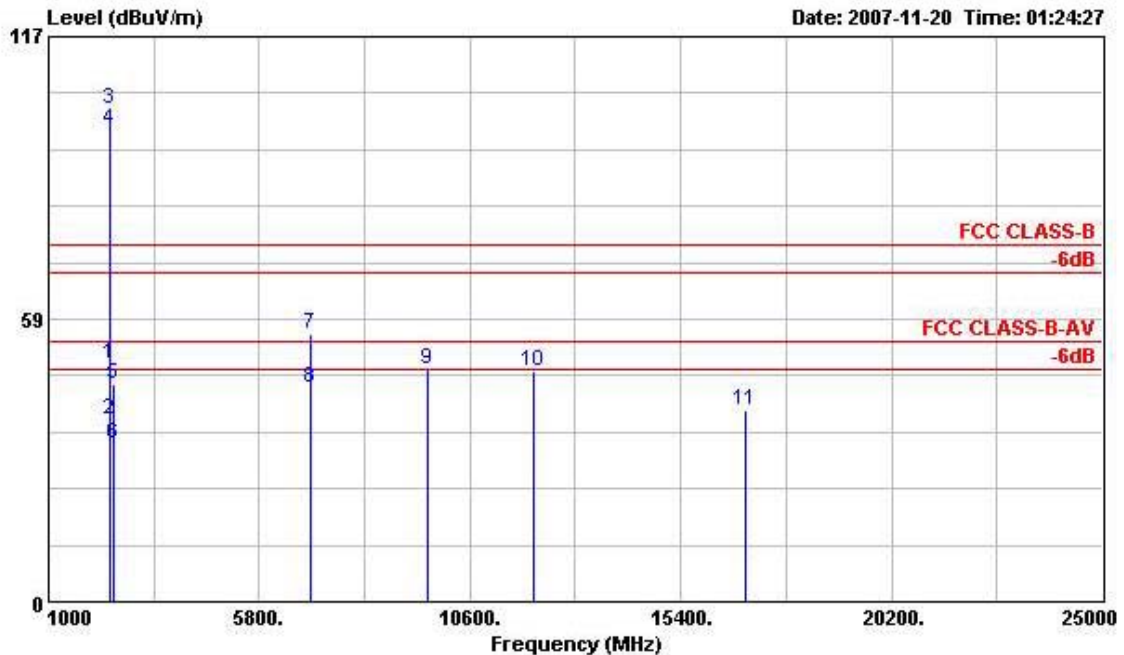
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH01;2412MHz
 Data Rate: 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.620	29.25	-10.75	40.00	40.29	16.34	0.88	28.26	---	---	Peak
2	149.340	32.14	-11.36	43.50	47.73	10.75	1.66	28.00	---	---	Peak
3	167.970	35.06	-8.44	43.50	52.51	8.76	1.72	27.93	100	284	Peak
4	668.200	37.23	-8.77	46.00	42.82	20.06	3.45	29.10	---	---	Peak
5	699.000	32.11	-13.89	46.00	37.58	20.14	3.50	29.10	---	---	Peak
6	797.700	28.78	-17.22	46.00	34.28	19.86	3.54	28.90	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT : MB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH01;2412MHz
 Data Rate: 1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2387.330	49.24	-24.76	74.00	46.74	32.54	3.74	33.78	100	0 Peak
2	2387.330	37.72	-16.28	54.00	35.22	32.54	3.74	33.78	100	95 Average
3 X	2412.000	101.94			99.41	32.55	3.76	33.78	100	0 Peak
4 @	2412.000	97.79			95.26	32.55	3.76	33.78	100	95 Average
5	2492.000	45.20	-28.80	74.00	42.56	32.60	3.84	33.80	100	0 Peak
6	2492.000	32.88	-21.12	54.00	30.24	32.60	3.84	33.80	100	95 Average
7	6954.000	55.36	-18.64	74.00	45.56	36.00	6.34	32.54	100	0 Peak
8	6954.000	44.32	-9.68	54.00	34.52	36.00	6.34	32.54	100	158 Average
9	9645.000	48.19	-25.81	74.00	85.68	-10.09	7.60	35.00	100	0 Peak
10	12054.000	47.66	-26.34	74.00	84.03	-9.77	7.87	34.47	100	0 Peak
11	16881.000	39.73	-34.27	74.00	74.77	-10.20	9.19	34.03	100	0 Peak

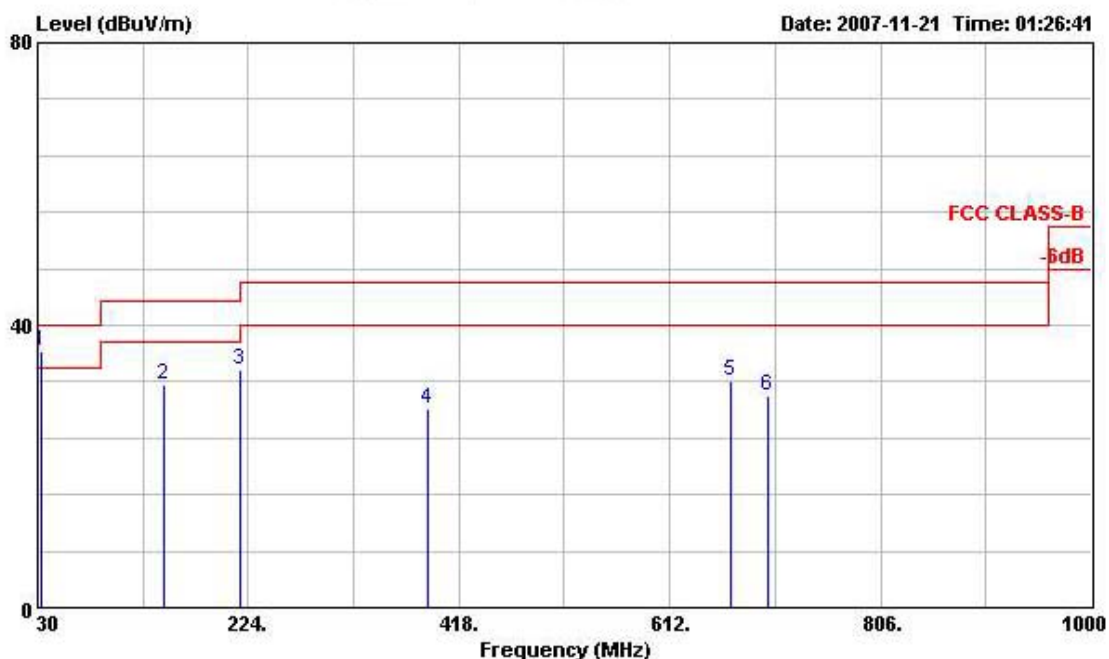
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 2

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

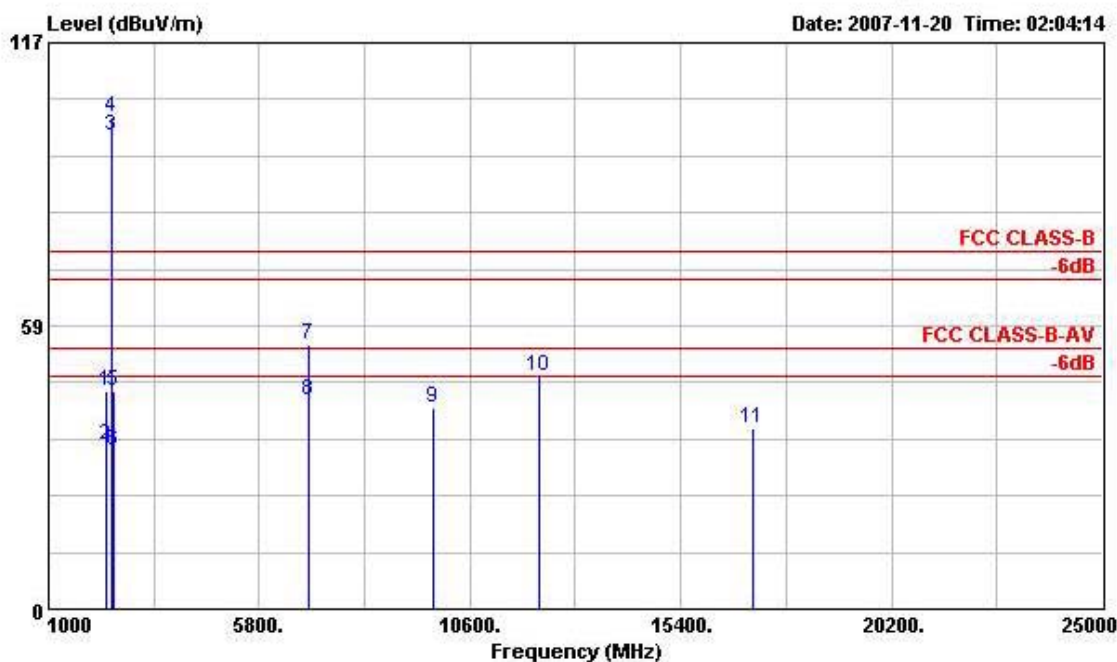
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11b Tx_CH06;2437MHz

Data Rate: 1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.970	36.29	-3.71	40.00	47.33	16.33	0.90	28.26	100	183 Peak
2	146.370	31.69	-11.81	43.50	47.36	10.70	1.65	28.01	---	---
3	216.300	33.57	-12.43	46.00	49.42	9.98	1.94	27.77	---	---
4	388.900	28.23	-17.77	46.00	38.53	15.38	2.54	28.22	---	---
5	668.200	32.12	-13.88	46.00	37.71	20.06	3.45	29.10	---	---
6	701.800	30.06	-15.94	46.00	35.52	20.13	3.50	29.10	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT : MB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH06;2437MHz
 Data Rate: 1

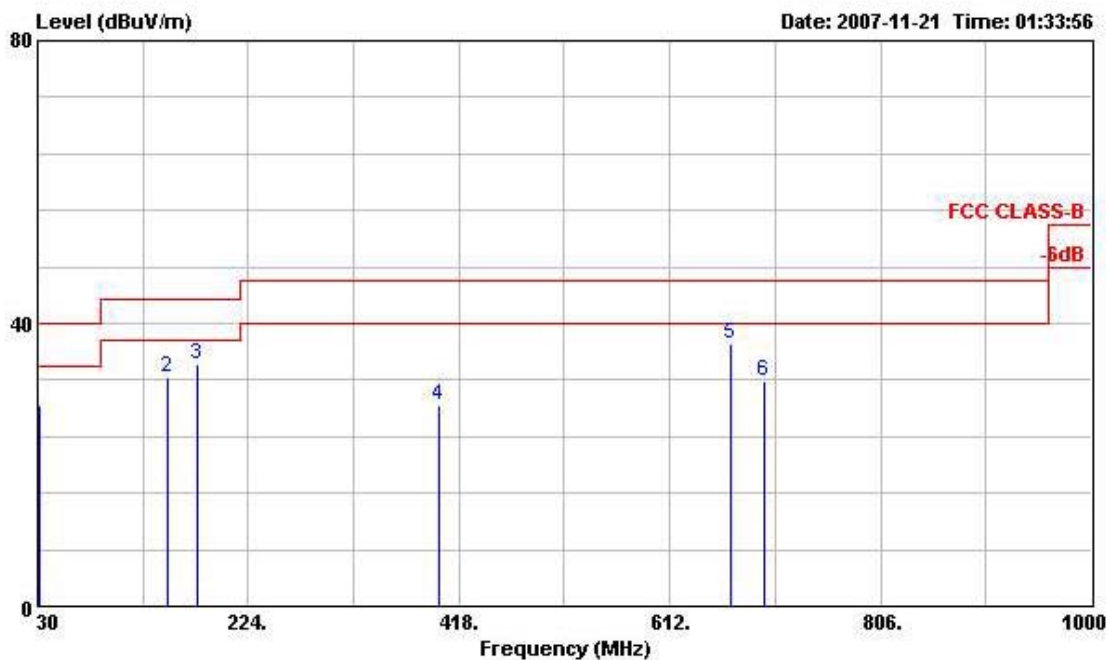
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2332.000	45.10	-28.90	74.00	42.68	32.50	3.69	33.77	100	0	Peak
2	2332.000	34.01	-19.99	54.00	31.59	32.50	3.69	33.77	100	95	Average
3 @	2437.000	97.63			95.06	32.57	3.79	33.79	100	95	Average
4 X	2437.000	101.53			98.96	32.57	3.79	33.79	100	0	Peak
5	2486.000	45.16	-28.84	74.00	42.53	32.59	3.84	33.80	100	0	Peak
6	2486.000	32.87	-21.13	54.00	30.24	32.59	3.84	33.80	100	95	Average
7	6930.000	54.76	-19.24	74.00	44.97	36.00	6.34	32.54	100	0	Peak
8	6930.000	43.10	-10.90	54.00	33.31	36.00	6.34	32.54	100	130	Average
9	9741.000	41.62	-32.38	74.00	78.84	-9.87	7.65	35.00	100	0	Peak
10	12186.000	48.08	-25.92	74.00	84.84	-10.25	7.86	34.38	100	0	Peak
11	17058.000	37.50	-36.50	74.00	72.44	-10.35	9.28	33.87	100	0	Peak

Remark: #3 and #4 are Fundamental Signal



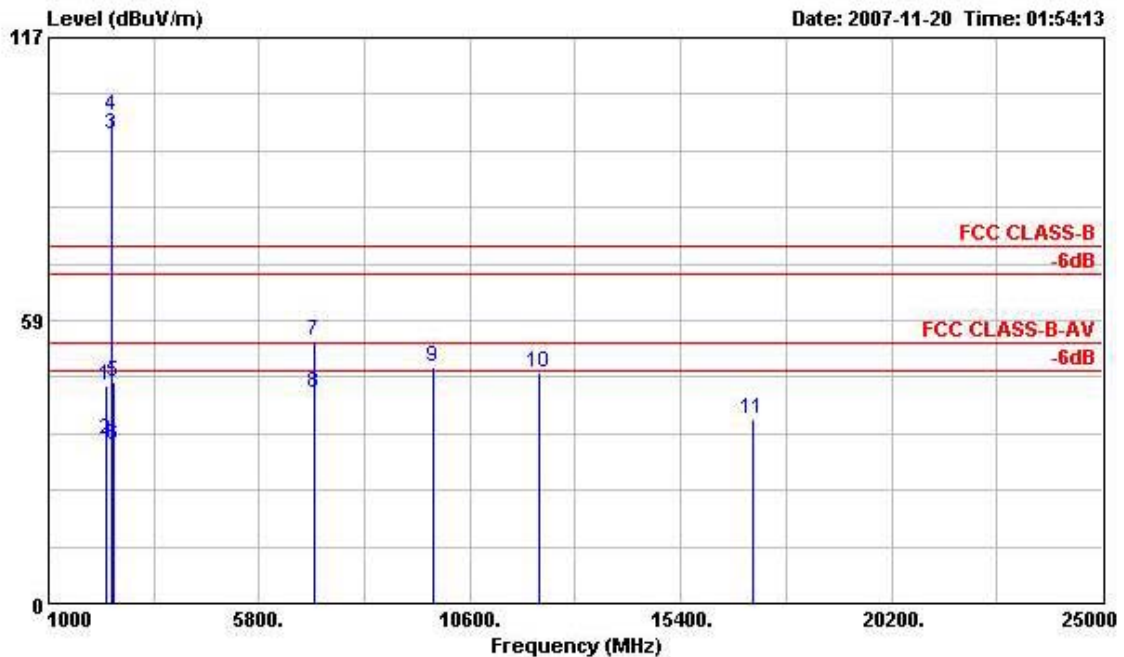
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH06;2437MHz
 Data Rate: 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.620	28.30	-11.70	40.00	39.34	16.34	0.88	28.26	---	---	Peak
2	149.340	32.37	-11.13	43.50	47.96	10.75	1.66	28.00	---	---	Peak
3	176.610	34.22	-9.28	43.50	51.74	8.61	1.77	27.90	---	---	Peak
4	399.400	28.36	-17.64	46.00	38.33	15.75	2.57	28.29	---	---	Peak
5	668.200	37.08	-8.92	46.00	42.67	20.06	3.45	29.10	100	193	Peak
6	699.000	31.93	-14.07	46.00	37.40	20.14	3.50	29.10	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT : MB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH06;2437MHz
 Data Rate: 1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2332.000	45.21	-28.79	74.00	42.79	32.50	3.69	33.77	100	0 Peak
2	2332.000	33.83	-20.17	54.00	31.41	32.50	3.69	33.77	100	127 Average
3 @	2437.000	96.95			94.38	32.57	3.79	33.79	100	127 Average
4 X	2437.000	100.97			98.40	32.57	3.79	33.79	100	0 Peak
5	2500.000	45.84	-28.16	74.00	43.20	32.60	3.84	33.80	100	0 Peak
6	2500.000	32.87	-21.13	54.00	30.23	32.60	3.84	33.80	100	127 Average
7	7038.000	54.22	-19.78	74.00	44.47	36.00	6.38	32.63	100	0 Peak
8	7038.000	43.54	-10.46	54.00	33.79	36.00	6.38	32.63	100	101 Average
9	9741.000	48.82	-25.18	74.00	86.04	-9.87	7.65	35.00	100	0 Peak
10	12186.000	47.61	-26.39	74.00	84.37	-10.25	7.86	34.38	100	0 Peak
11	17058.000	38.06	-35.94	74.00	73.00	-10.35	9.28	33.87	100	0 Peak

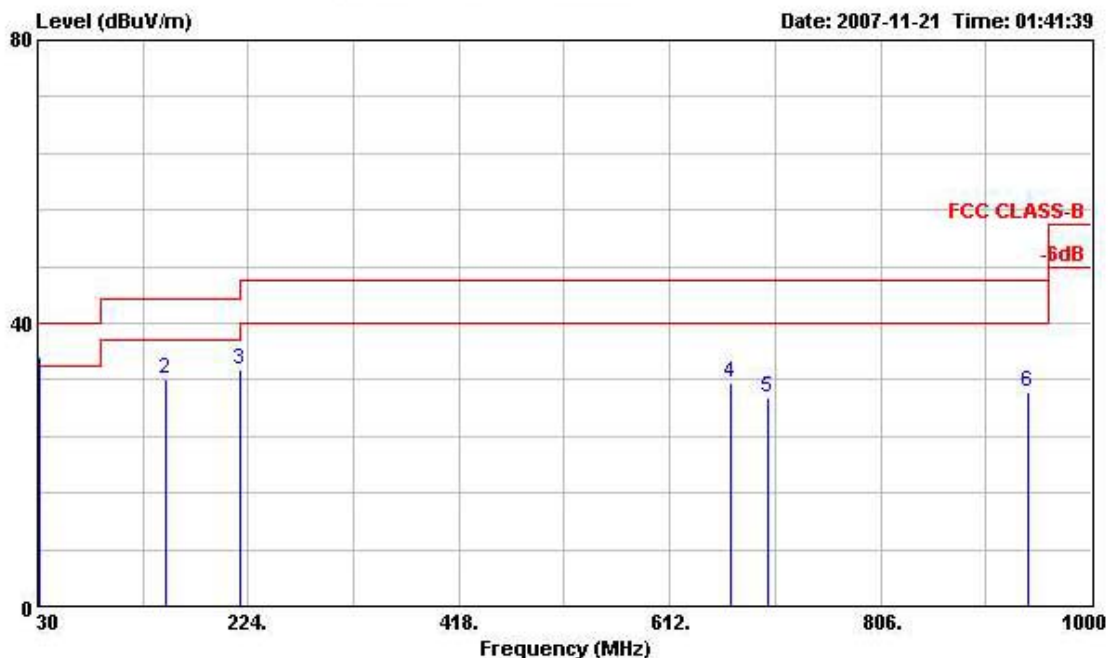
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 3

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

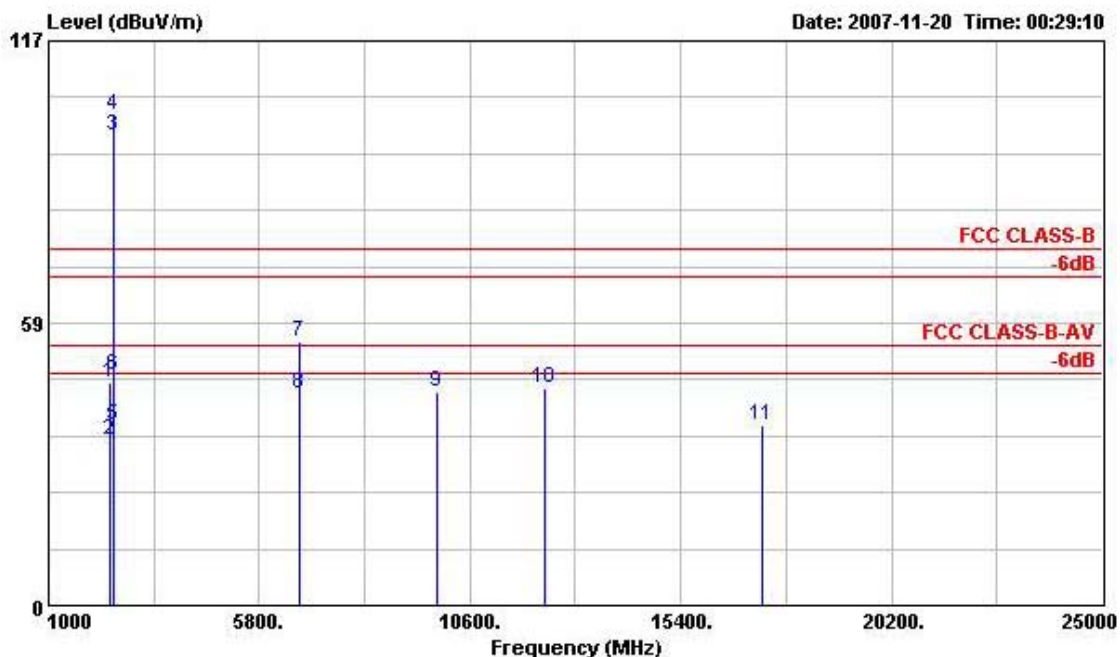
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11b Tx_CH11;2462MHz

Data Rate: 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	35.20	-4.80	40.00	46.23	16.34	0.89	28.26	100	54	Peak
2	147.450	32.18	-11.32	43.50	47.82	10.72	1.65	28.01	---	---	Peak
3	216.300	33.55	-12.45	46.00	49.40	9.98	1.94	27.77	---	---	Peak
4	668.200	31.54	-14.46	46.00	37.13	20.06	3.45	29.10	---	---	Peak
5	701.800	29.52	-16.48	46.00	34.98	20.13	3.50	29.10	---	---	Peak
6	942.600	30.38	-15.62	46.00	30.52	24.60	3.98	28.71	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT : NE
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH11;2462MHz
 Data Rate: 1

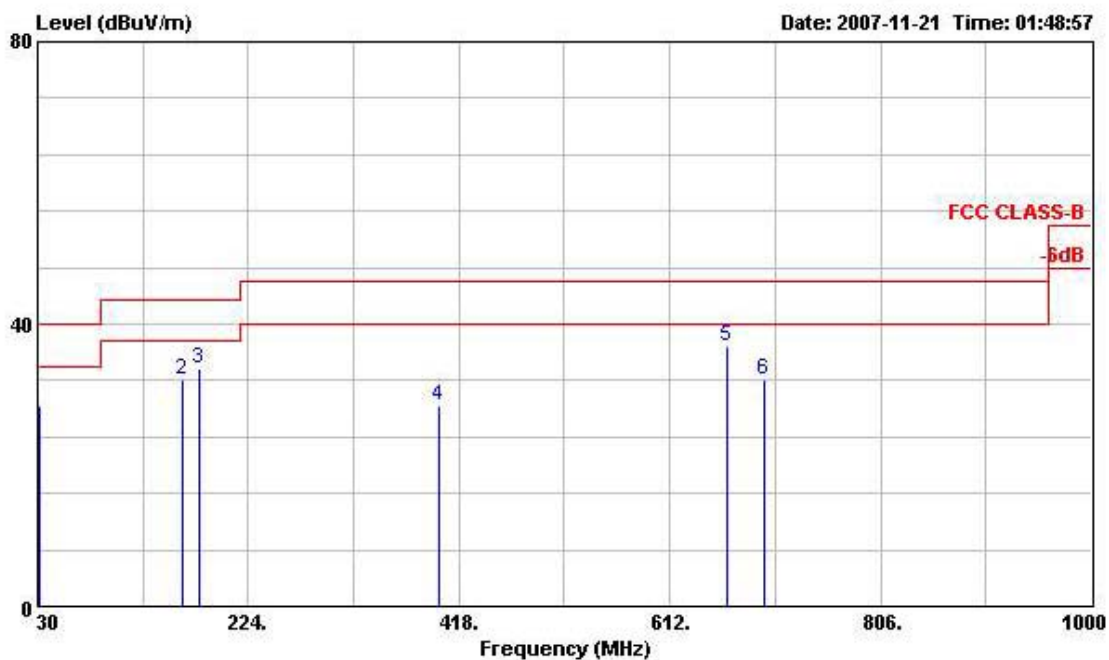
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamplifier Loss	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	2388.000	46.19	-27.81	74.00	43.69	32.54	3.74	100	0	Peak
2	2388.000	34.20	-19.80	54.00	31.70	32.54	3.74	128	147	Average
3 @	2462.000	97.37			94.77	32.58	3.81	128	147	Average
4 X	2462.000	101.77			99.17	32.58	3.81	100	0	Peak
5	2483.660	37.25	-16.75	54.00	34.62	32.59	3.84	128	147	Average
6	2483.660	47.61	-26.39	74.00	44.98	32.59	3.84	100	0	Peak
7	6702.000	54.58	-19.42	74.00	45.05	36.00	6.27	100	0	Peak
8	6702.000	43.88	-10.12	54.00	34.35	36.00	6.27	100	154	Average
9	9846.000	44.15	-29.85	74.00	81.06	-9.63	7.72	100	0	Peak
10	12306.000	45.15	-28.85	74.00	82.27	-10.65	7.85	100	0	Peak
11	17235.000	37.32	-36.68	74.00	72.81	-11.11	9.42	100	0	Peak

Remark: #3 and #4 are Fundamental Signal



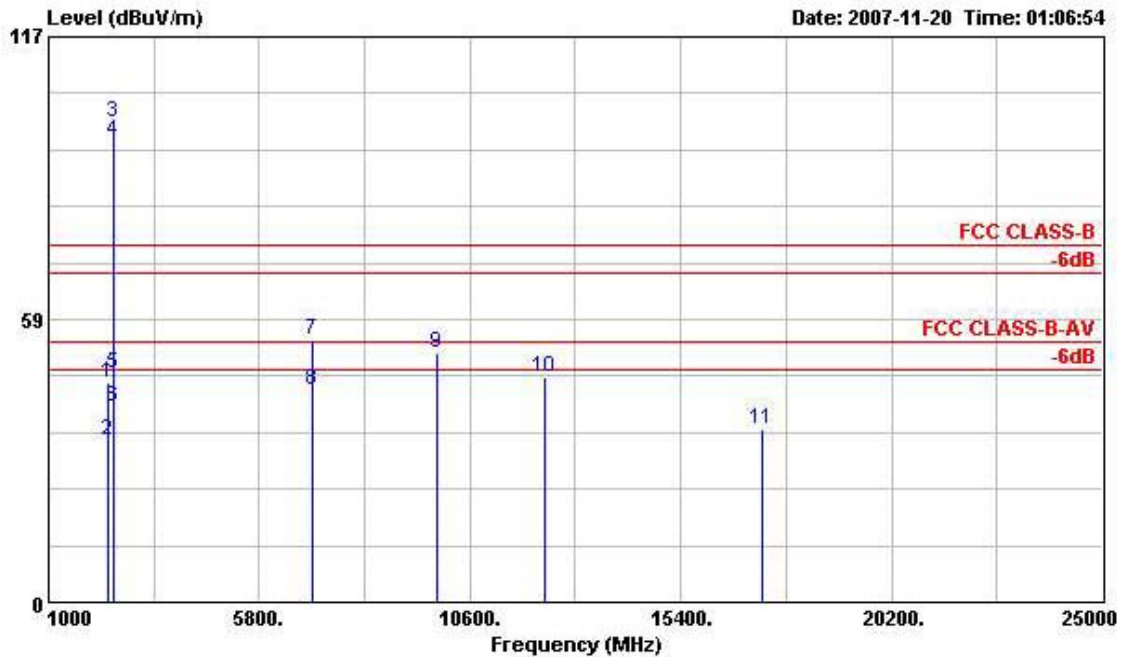
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH11;2462MHz
 Data Rate: 1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.620	28.45	-11.55	40.00	39.49	16.34	0.88	28.26	---	---
2	163.380	32.02	-11.48	43.50	49.28	8.98	1.70	27.95	---	---
3	179.580	33.58	-9.92	43.50	50.72	8.96	1.78	27.88	---	---
4	399.400	28.41	-17.59	46.00	38.38	15.75	2.57	28.29	---	---
5	665.400	36.93	-9.07	46.00	42.53	20.06	3.45	29.10	100	177
6	699.000	32.19	-13.81	46.00	37.66	20.14	3.50	29.10	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT : MB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11b Tx_CH11;2462MHz
 Data Rate: 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2358.000	45.51	-28.49	74.00	43.05	32.52	3.71	33.77	100	0	Peak
2	2358.000	33.67	-20.33	54.00	31.21	32.52	3.71	33.77	100	96	Average
3 X	2462.000	99.35			96.75	32.58	3.81	33.79	100	0	Peak
4 @	2462.000	95.27			92.67	32.58	3.81	33.79	100	96	Average
5	2487.650	47.32	-26.68	74.00	44.68	32.60	3.84	33.80	100	0	Peak
6	2487.650	40.45	-13.55	54.00	37.81	32.60	3.84	33.80	100	96	Average
7	7005.000	54.30	-19.70	74.00	44.44	36.00	6.36	32.50	100	0	Peak
8	7005.000	43.91	-10.09	54.00	34.05	36.00	6.36	32.50	100	106	Average
9	9846.000	51.42	-22.58	74.00	88.33	-9.63	7.72	35.00	100	0	Peak
10	12306.000	46.69	-27.31	74.00	83.81	-10.65	7.85	34.32	100	0	Peak
11	17235.000	35.91	-38.09	74.00	71.40	-11.11	9.42	33.80	100	0	Peak

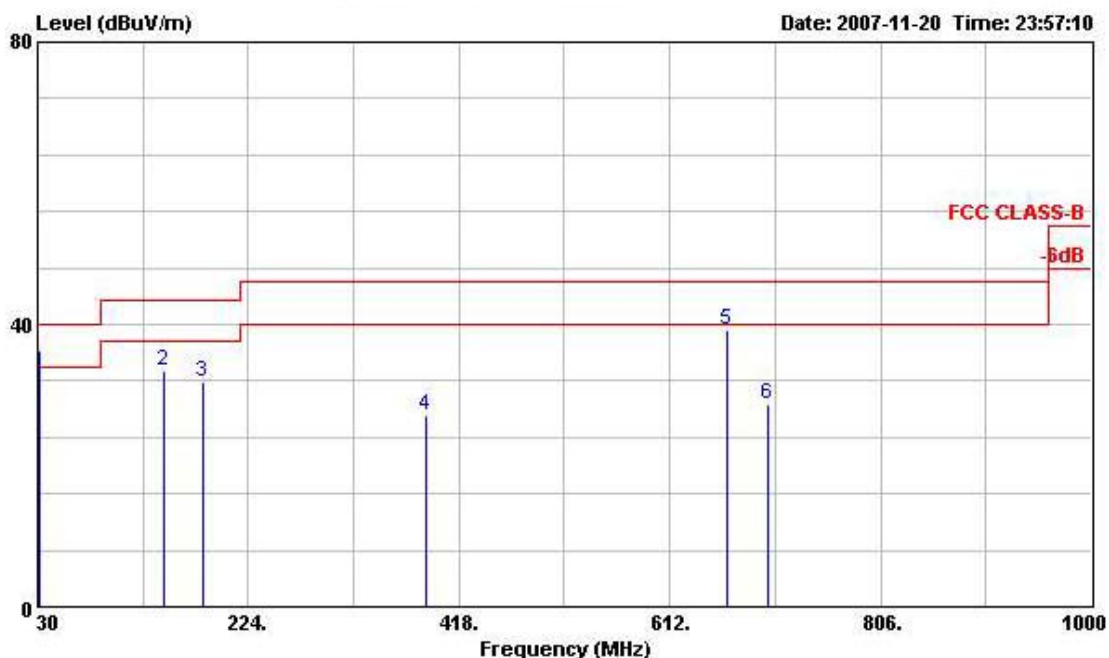
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 4

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

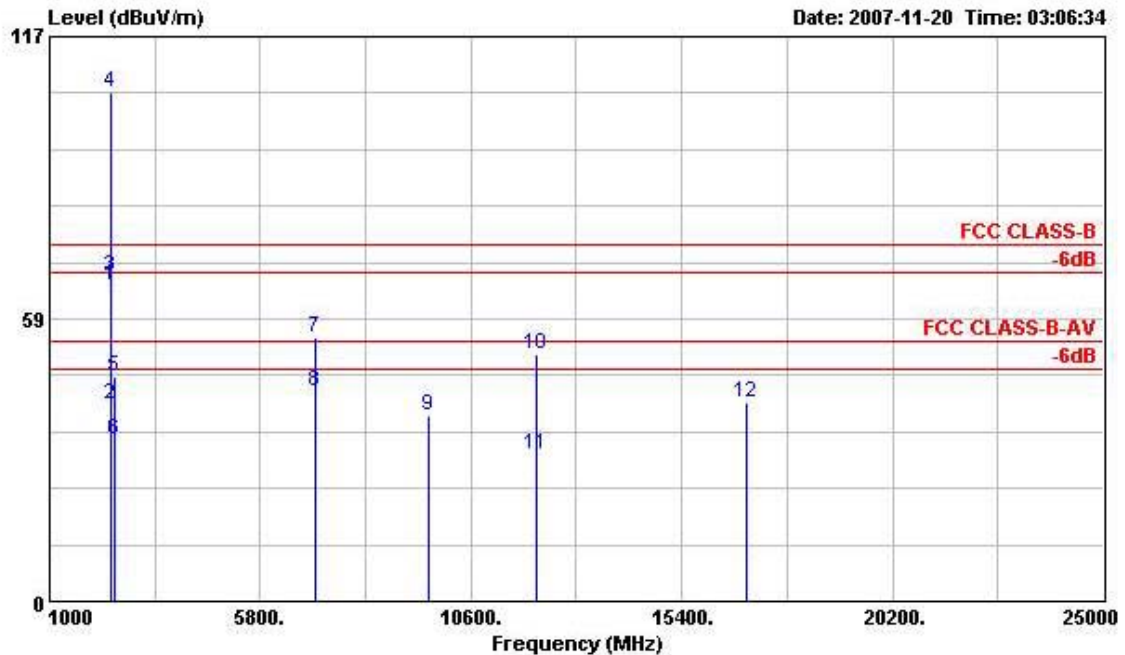
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11g Tx_CH01;2412MHz

Data Rate: 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	36.42	-3.58	40.00	47.45	16.34	0.89	28.26	100	301	Peak
2	146.370	33.45	-10.05	43.50	49.12	10.70	1.65	28.01	---	---	Peak
3	182.820	31.83	-11.67	43.50	48.88	9.03	1.80	27.87	---	---	Peak
4	388.200	27.09	-18.91	46.00	37.42	15.35	2.53	28.22	---	---	Peak
5	665.400	39.32	-6.68	46.00	44.92	20.06	3.45	29.10	---	---	Peak
6	701.800	28.58	-17.42	46.00	34.04	20.13	3.50	29.10	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT : MB
POWER : 120Vac/60Hz
MODEL : FR 701819-01
MEMO : 11g Tx_CH01;2412MHz
Data Rate: 54

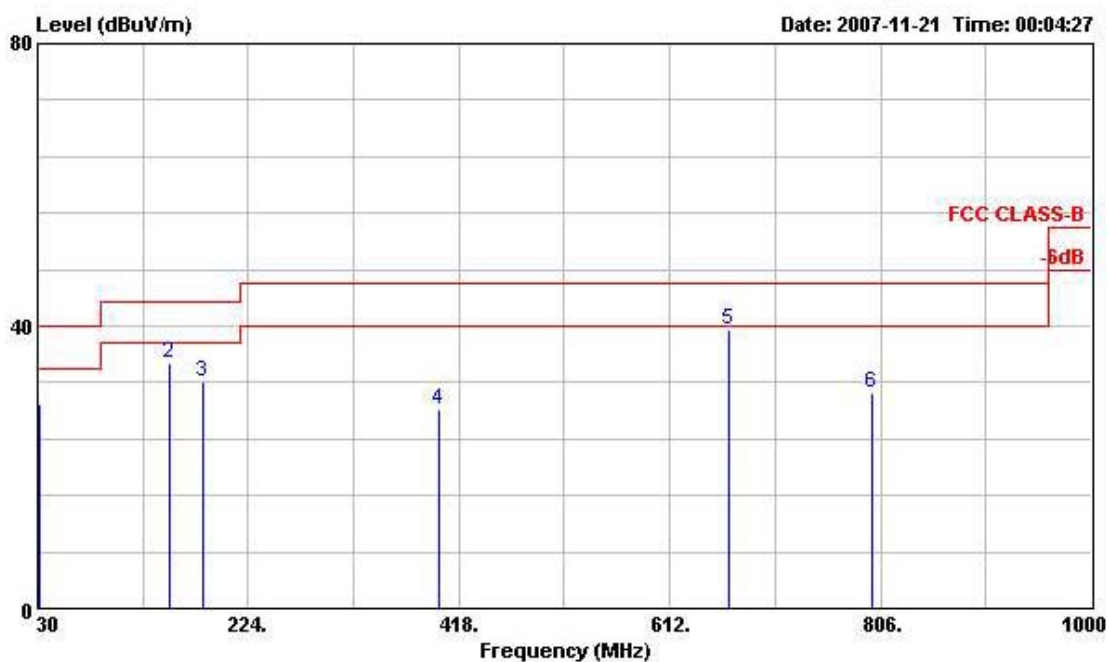
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.000	65.57	-8.43	74.00	63.07	32.54	3.74	33.78	100	0	Peak
2	2390.000	40.88	-13.12	54.00	38.38	32.54	3.74	33.78	100	95	Average
3 X	2412.000	67.19			64.66	32.55	3.76	33.78	100	95	Average
4 @	2412.000	105.29			102.76	32.55	3.76	33.78	100	0	Peak
5	2494.000	46.45	-27.55	74.00	43.81	32.60	3.84	33.80	100	0	Peak
6	2494.000	33.33	-20.67	54.00	30.69	32.60	3.84	33.80	100	95	Average
7	7041.000	54.56	-19.44	74.00	44.81	36.00	6.38	32.63	100	0	Peak
8	7041.000	43.52	-10.48	54.00	33.77	36.00	6.38	32.63	100	141	Average
9	9645.000	38.44	-35.56	74.00	75.93	-10.09	7.60	35.00	100	0	Peak
10	12069.000	51.28	-22.72	74.00	87.70	-9.84	7.87	34.46	100	0	Peak
11	12069.000	30.58	-23.42	54.00	67.00	-9.84	7.87	34.46	100	186	Average
12	16881.000	41.04	-32.96	74.00	76.08	-10.20	9.19	34.03	100	0	Peak

Remark: #3 and #4 are Fundamental Signal



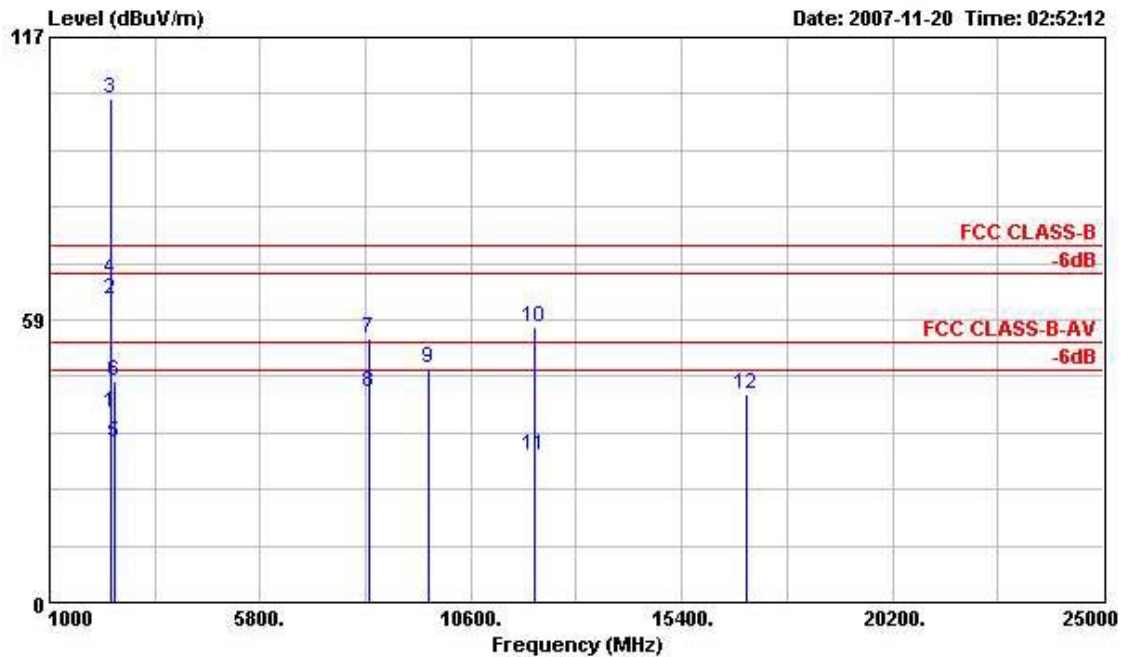
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH01;2412MHz
 Data Rate: 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.620	28.99	-11.01	40.00	40.03	16.34	0.88	28.26	---	---	Peak
2	151.500	34.63	-8.87	43.50	50.35	10.61	1.66	27.99	---	---	Peak
3	182.820	32.04	-11.46	43.50	49.09	9.03	1.80	27.87	---	---	Peak
4	399.400	28.17	-17.83	46.00	38.14	15.75	2.57	28.29	---	---	Peak
5	666.800	39.47	-6.53	46.00	45.06	20.06	3.45	29.10	100	255	Peak
6	797.700	30.50	-15.50	46.00	36.00	19.86	3.54	28.90	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH01;2412MHz
 Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	39.43	-14.57	54.00	36.93	32.54	3.74	33.78	100	130 Average
2	2390.000	62.84	-11.16	74.00	60.34	32.54	3.74	33.78	100	0 Peak
3 @	2412.000	104.44			101.91	32.55	3.76	33.78	100	0 Peak
4 X	2412.000	67.03			64.50	32.55	3.76	33.78	100	130 Average
5	2484.000	33.15	-20.85	54.00	30.52	32.59	3.84	33.80	100	130 Average
6	2484.000	45.87	-28.13	74.00	43.24	32.59	3.84	33.80	100	0 Peak
7	8277.000	54.82	-19.18	74.00	45.69	36.26	6.90	34.02	100	0 Peak
8	8277.000	43.55	-10.45	54.00	34.42	36.26	6.90	34.02	100	133 Average
9	9645.000	48.31	-25.69	74.00	85.80	-10.09	7.60	35.00	100	0 Peak
10	12057.000	57.08	-16.92	74.00	93.47	-9.80	7.87	34.46	100	0 Peak
11	12057.000	30.50	-23.50	54.00	66.89	-9.80	7.87	34.46	100	201 Average
12	16893.000	43.27	-30.73	74.00	78.30	-10.19	9.19	34.03	100	0 Peak

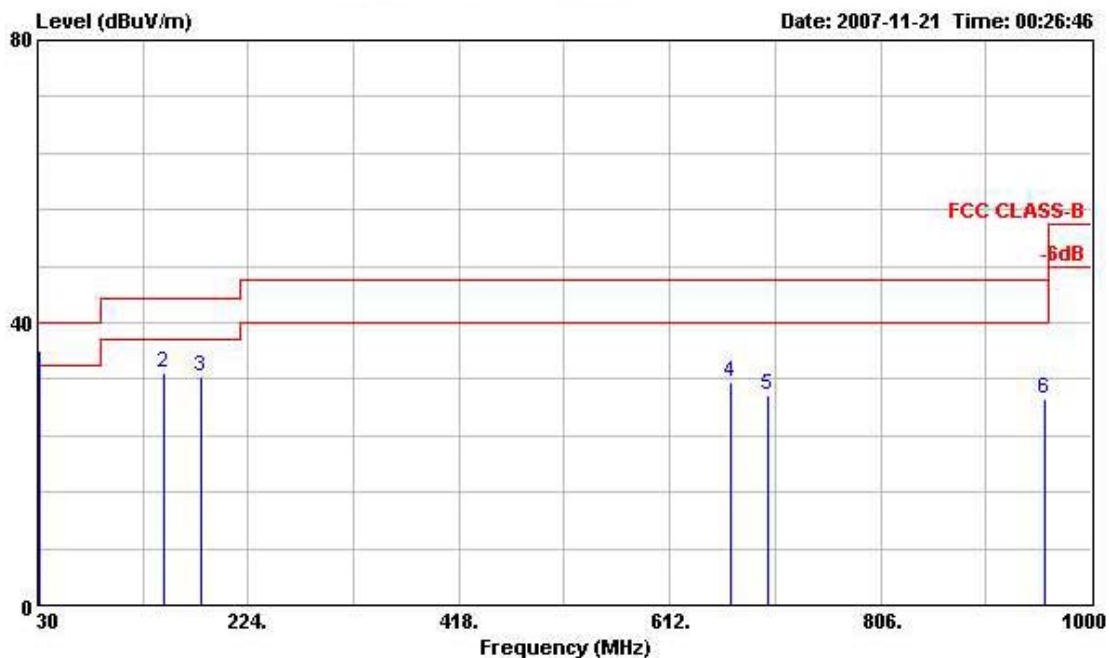
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 5

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

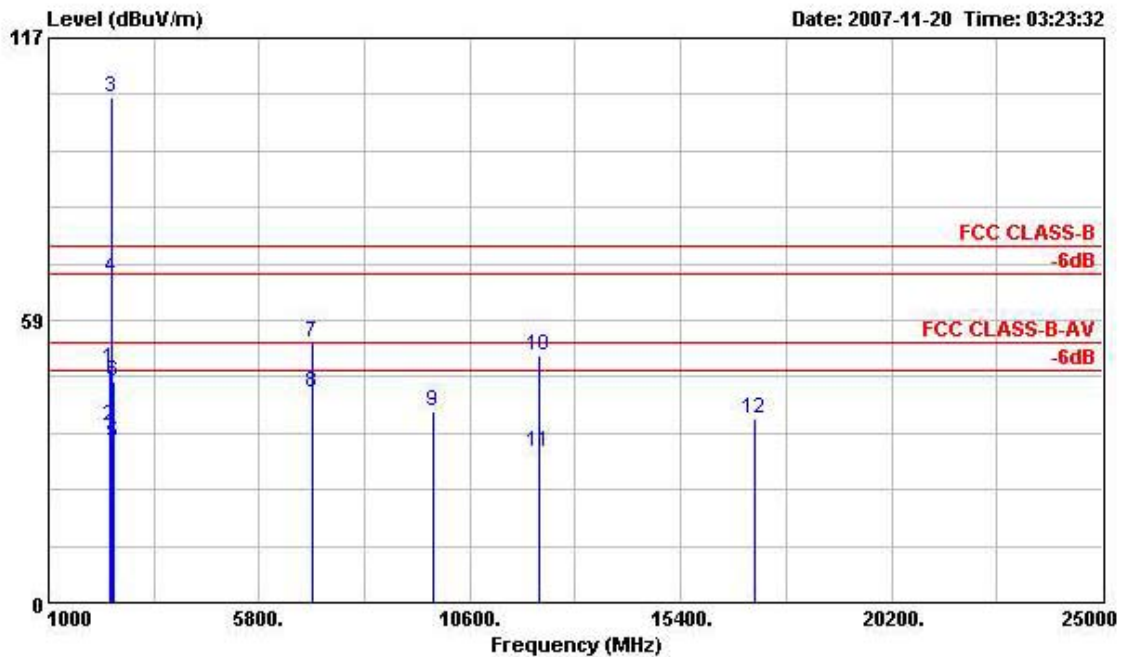
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11g Tx_CH06;2437MHz

Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.890	35.96	-4.04	40.00	46.99	16.34	0.89	28.26	100	155 Peak
2	146.370	32.96	-10.54	43.50	48.63	10.70	1.65	28.01	---	---
3	179.850	32.24	-11.26	43.50	49.38	8.96	1.78	27.88	---	---
4	668.200	31.52	-14.48	46.00	37.11	20.06	3.45	29.10	---	---
5	701.800	29.63	-16.37	46.00	35.09	20.13	3.50	29.10	---	---
6	956.600	29.24	-16.76	46.00	29.00	24.94	3.98	28.69	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT : NE
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH06;2437MHz
 Data Rate: 54

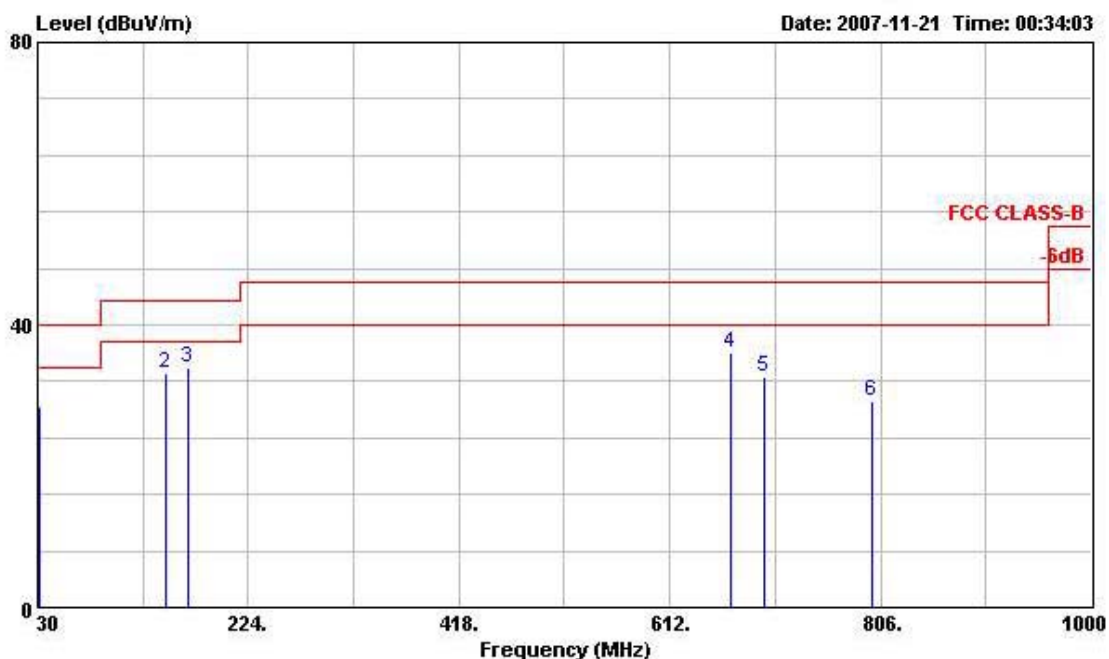
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	48.46	-25.54	74.00	45.96	32.54	3.74	33.78	100	0 Peak
2	2390.000	36.67	-17.33	54.00	34.17	32.54	3.74	33.78	100	69 Average
3 @	2437.000	104.77			102.20	32.57	3.79	33.79	100	0 Peak
4 X	2437.000	67.25			64.68	32.57	3.79	33.79	100	69 Average
5	2484.000	33.13	-20.87	54.00	30.50	32.59	3.84	33.80	100	69 Average
6	2484.000	45.95	-28.05	74.00	43.32	32.59	3.84	33.80	100	0 Peak
7	7014.000	54.06	-19.94	74.00	44.26	36.00	6.37	32.57	100	0 Peak
8	7014.000	43.63	-10.37	54.00	33.83	36.00	6.37	32.57	100	102 Average
9	9750.000	39.72	-34.28	74.00	76.90	-9.85	7.67	35.00	100	0 Peak
10	12165.000	51.06	-22.94	74.00	87.73	-10.14	7.87	34.40	100	0 Peak
11	12165.000	31.25	-22.75	54.00	67.92	-10.14	7.87	34.40	100	184 Average
12	17070.000	38.03	-35.97	74.00	72.99	-10.39	9.30	33.87	100	0 Peak

Remark: #3 and #4 are Fundamental Signal



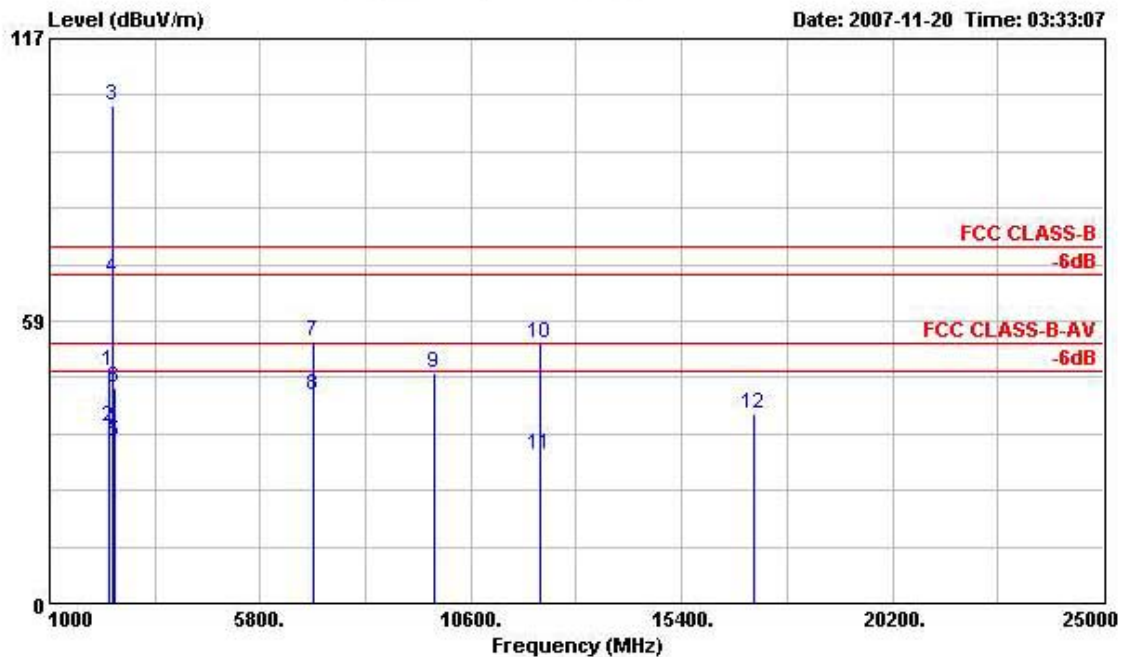
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH06;2437MHz
 Data Rate: 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	28.46	-11.54	40.00	39.49	16.34	0.89	28.26	---	---	Peak
2	148.260	33.07	-10.43	43.50	48.69	10.74	1.65	28.01	---	---	Peak
3	167.970	33.95	-9.55	43.50	51.40	8.76	1.72	27.93	100	162	Peak
4	668.200	36.15	-9.85	46.00	41.74	20.06	3.45	29.10	---	---	Peak
5	699.000	32.73	-13.27	46.00	38.20	20.14	3.50	29.10	---	---	Peak
6	797.700	29.21	-16.79	46.00	34.71	19.86	3.54	28.90	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT : NB
POWER : 120Vac/60Hz
MODEL : FR 701819-01
MEMO : 11g Tx_CH06;2437MHz
Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2334.000	48.02	-25.98	74.00	45.60	32.50	3.69	33.77	100	0 Peak
2	2334.000	36.52	-17.48	54.00	34.10	32.50	3.69	33.77	100	128 Average
3 @	2437.000	103.23			100.66	32.57	3.79	33.79	100	0 Peak
4 X	2437.000	67.32			64.75	32.57	3.79	33.79	100	128 Average
5	2492.000	33.31	-20.69	54.00	30.67	32.60	3.84	33.80	100	128 Average
6	2492.000	44.51	-29.49	74.00	41.87	32.60	3.84	33.80	100	0 Peak
7	6993.000	54.24	-19.76	74.00	44.38	36.00	6.36	32.50	100	0 Peak
8	6993.000	43.15	-10.85	54.00	33.29	36.00	6.36	32.50	100	166 Average
9	9753.000	47.86	-26.14	74.00	85.04	-9.85	7.67	35.00	100	0 Peak
10	12189.000	53.69	-20.31	74.00	90.45	-10.25	7.86	34.38	100	0 Peak
11	12189.000	30.84	-23.16	54.00	67.60	-10.25	7.86	34.38	100	195 Average
12	17061.000	39.36	-34.64	74.00	74.30	-10.35	9.28	33.87	100	0 Peak

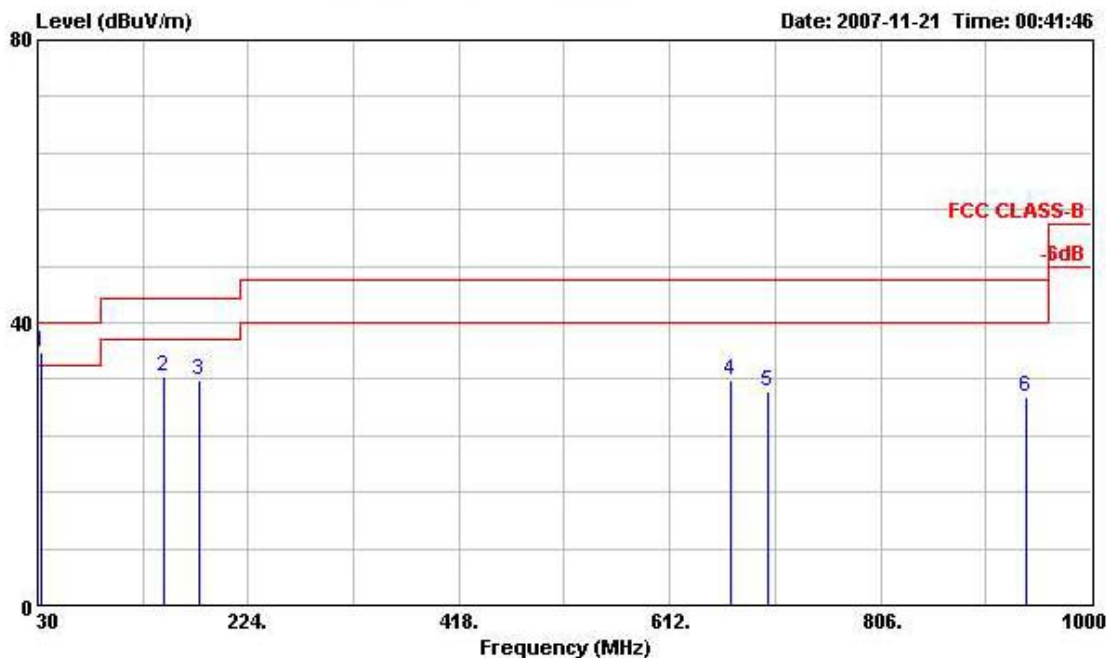
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 6

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

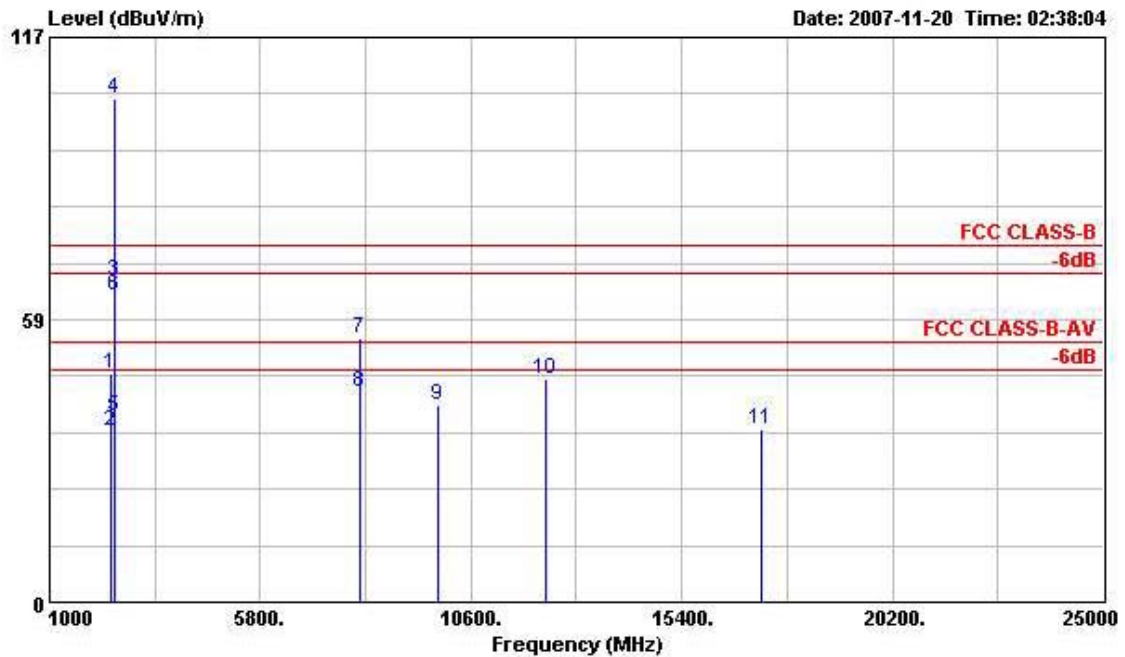
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11g Tx_CH11;2462MHz

Data Rate: 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.970	35.88	-4.12	40.00	46.92	16.33	0.90	28.26	100	121	Peak
2	146.100	32.32	-11.18	43.50	47.99	10.70	1.65	28.02	---	---	Peak
3	179.580	31.93	-11.57	43.50	49.07	8.96	1.78	27.88	---	---	Peak
4	668.200	31.89	-14.11	46.00	37.48	20.06	3.45	29.10	---	---	Peak
5	701.800	30.29	-15.71	46.00	35.75	20.13	3.50	29.10	---	---	Peak
6	939.800	29.57	-16.43	46.00	29.79	24.52	3.98	28.72	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH11;2462MHz
 Data Rate: 54

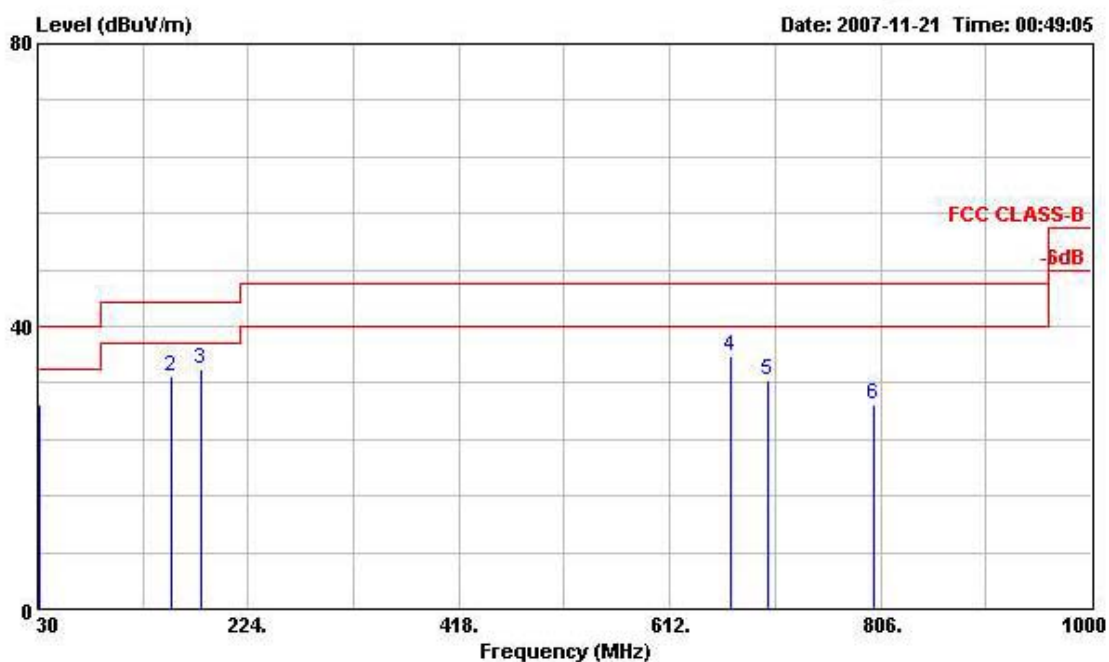
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2388.000	47.28	-26.72	74.00	44.78	32.54	3.74	33.78	100	0	Peak
2	2388.000	35.58	-18.42	54.00	33.08	32.54	3.74	33.78	125	148	Average
3 X	2462.000	66.65			64.05	32.58	3.81	33.79	125	148	Average
4 @	2462.000	104.12			101.52	32.58	3.81	33.79	100	0	Peak
5	2485.180	38.67	-15.33	54.00	36.04	32.59	3.84	33.80	125	148	Average
6	2485.180	63.66	-10.34	74.00	61.03	32.59	3.84	33.80	100	0	Peak
7	8049.000	54.74	-19.26	74.00	45.39	36.21	6.78	33.64	100	0	Peak
8	8049.000	43.55	-10.45	54.00	34.20	36.21	6.78	33.64	100	187	Average
9	9846.000	40.93	-33.07	74.00	77.84	-9.63	7.72	35.00	100	0	Peak
10	12309.000	46.32	-27.68	74.00	83.44	-10.65	7.85	34.32	100	0	Peak
11	17229.000	35.81	-38.19	74.00	71.26	-11.07	9.42	33.81	100	0	Peak

Remark: #3 and #4 are Fundamental Signal



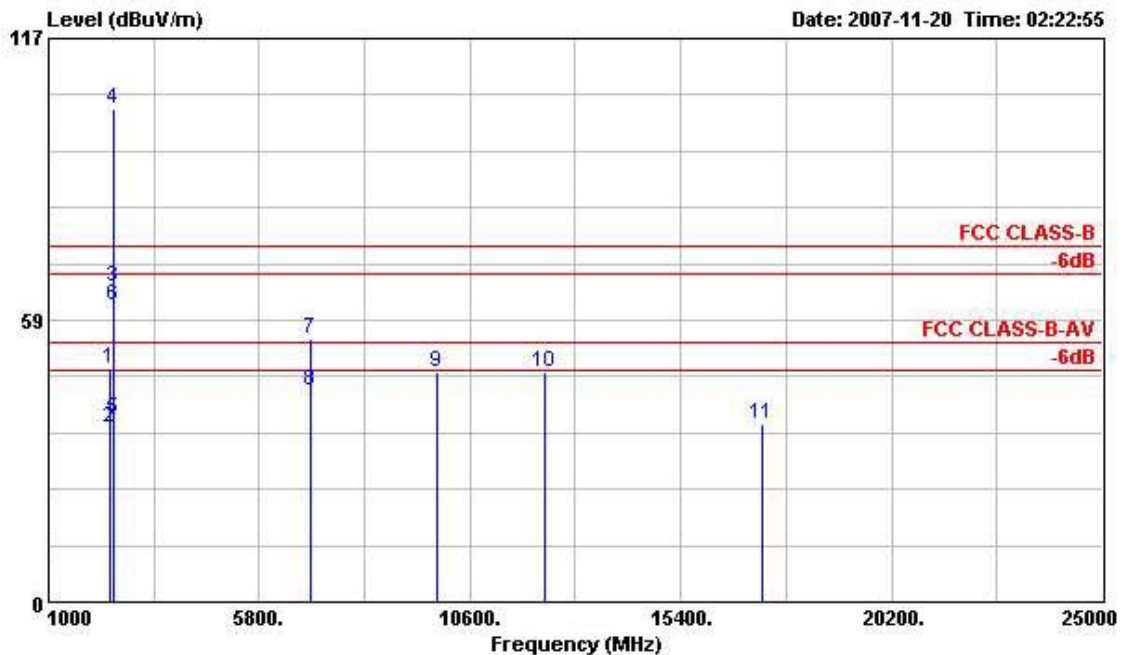
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH11;2462MHz
 Data Rate: 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	29.06	-10.94	40.00	40.09	16.34	0.89	28.26	---	---	Peak
2	153.930	32.92	-10.58	43.50	49.09	10.14	1.67	27.99	---	---	Peak
3	179.850	34.03	-9.47	43.50	51.17	8.96	1.78	27.88	100	186	Peak
4	668.200	35.67	-10.33	46.00	41.26	20.06	3.45	29.10	---	---	Peak
5	701.800	32.26	-13.74	46.00	37.72	20.13	3.50	29.10	---	---	Peak
6	799.800	28.96	-17.04	46.00	34.47	19.85	3.54	28.90	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11g Tx_CH11;2462MHz
 Data Rate: 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamplifier Loss	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	2388.000	48.57	-25.43	74.00	46.07	32.54	3.74	100	0	Peak
2	2388.000	36.03	-17.97	54.00	33.53	32.54	3.74	100	93	Average
3 X	2462.000	65.48			62.88	32.58	3.81	100	93	Average
4 @	2462.000	102.20			99.60	32.58	3.81	100	0	Peak
5	2483.500	37.92	-16.08	54.00	35.29	32.59	3.84	100	93	Average
6	2483.500	61.63	-12.37	74.00	59.00	32.59	3.84	100	0	Peak
7	6981.000	54.67	-19.33	74.00	44.82	36.00	6.35	100	0	Peak
8	6981.000	43.84	-10.16	54.00	33.99	36.00	6.35	100	59	Average
9	9849.000	47.90	-26.10	74.00	84.81	-9.63	7.72	100	0	Peak
10	12285.000	47.87	-26.13	74.00	84.89	-10.55	7.85	100	0	Peak
11	17241.000	36.82	-37.18	74.00	72.29	-11.11	9.44	100	0	Peak

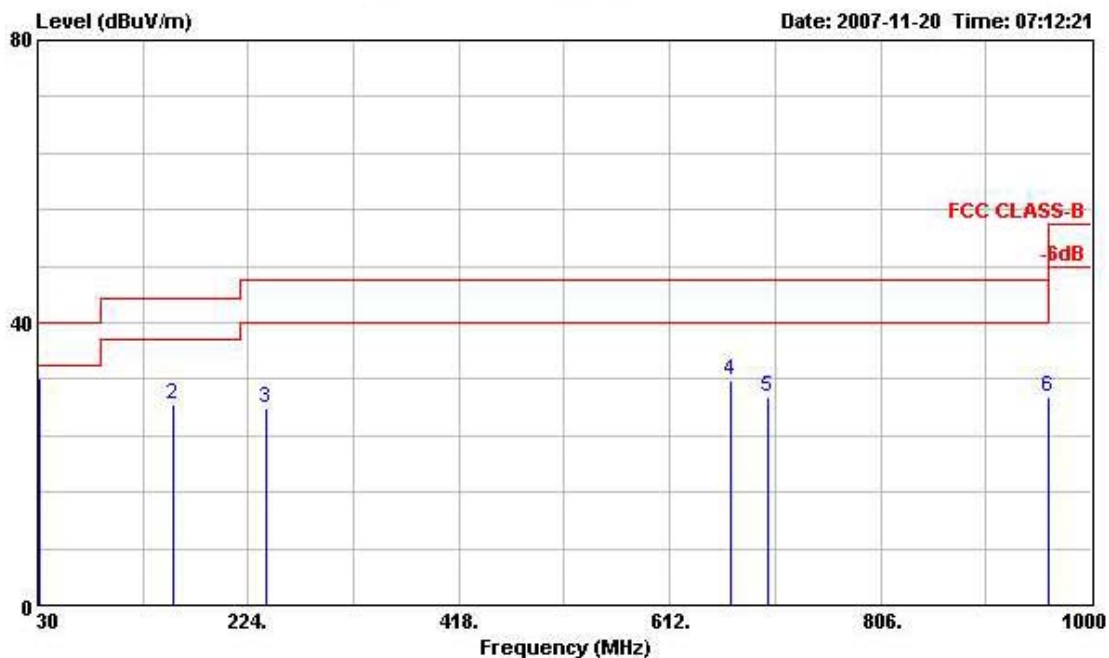
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 7

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

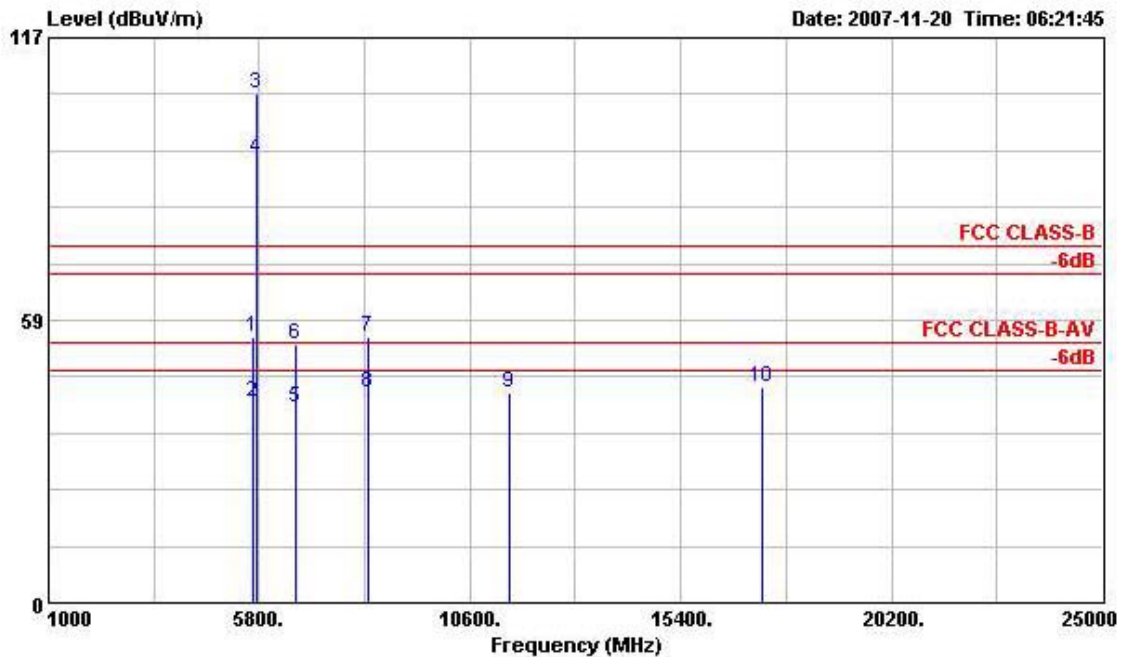
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MEMO : 11a Tx_Ch149;5745MHz

Data Rate: 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.620	32.03	-7.97	40.00	43.07	16.34	0.88	28.26	100	169
2	155.010	28.29	-15.21	43.50	44.61	9.99	1.67	27.98	---	---
3	240.060	27.91	-18.09	46.00	41.78	11.83	2.02	27.72	---	---
4	668.200	31.72	-14.28	46.00	37.31	20.06	3.45	29.10	---	---
5	701.800	29.43	-16.57	46.00	34.89	20.13	3.50	29.10	---	---
6	960.100	29.55	-24.45	54.00	29.21	25.04	3.99	28.68	---	---



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT : NB
POWER : 120Vac/60Hz
MODEL : FR 701819-01
MEMO : 11a Tx_Ch149;5745MHz
Data Rate: 6

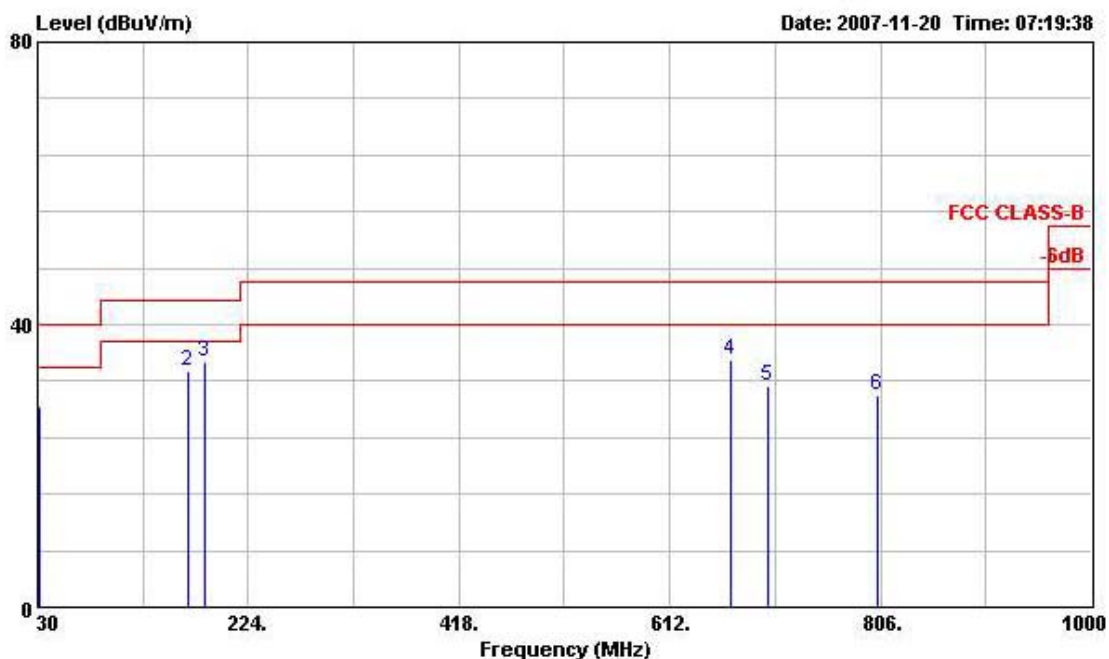
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5670.000	55.17	-18.83	74.00	47.88	35.34	6.02	34.07	100	0 Peak
2	5670.000	41.48	-12.52	54.00	34.19	35.34	6.02	34.07	100	305 Average
3 X	5745.000	105.32			97.91	35.44	6.02	34.05	100	0 Peak
4 @	5745.000	92.15			84.74	35.44	6.02	34.05	100	305 Average
5	6636.000	40.42	-13.58	54.00	30.97	36.00	6.24	32.79	100	305 Average
6	6636.000	53.46	-20.54	74.00	44.01	36.00	6.24	32.79	100	0 Peak
7	8278.000	54.87	-19.13	74.00	45.74	36.26	6.90	34.02	100	0 Peak
8	8278.000	43.57	-10.43	54.00	34.44	36.26	6.90	34.02	100	120 Average
9	11481.000	43.57	-30.43	74.00	81.68	-11.66	7.84	34.30	100	0 Peak
10	17238.000	44.56	-29.44	74.00	80.03	-11.11	9.44	33.80	100	0 Peak

Remark: #3 and #4 are Fundamental Signal



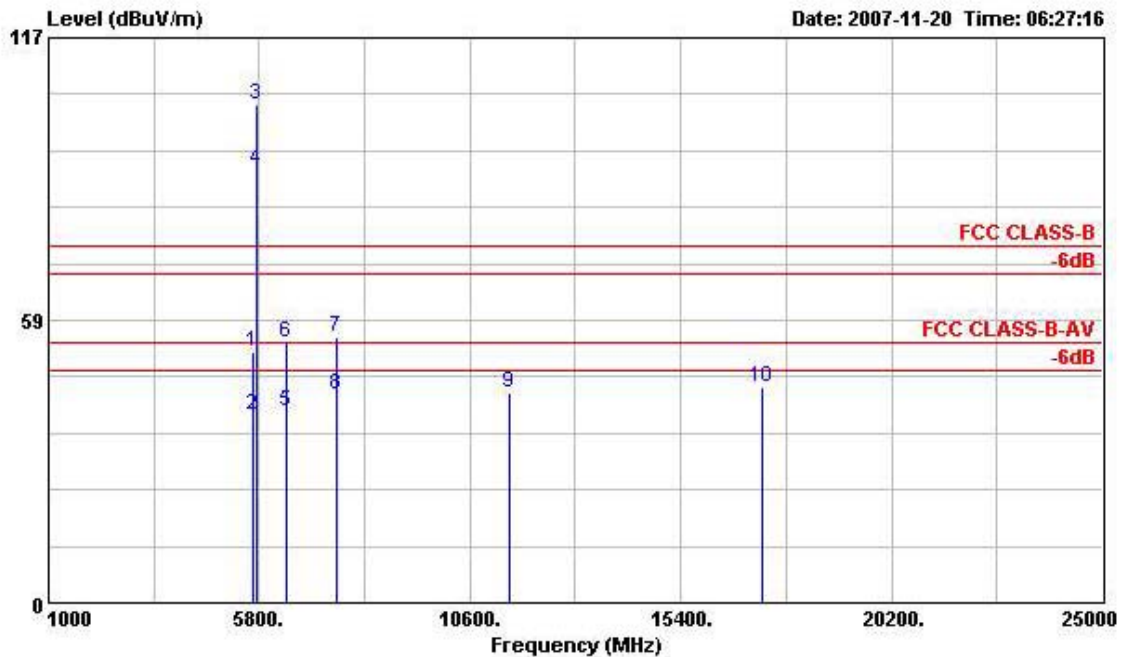
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : MB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MEMO : 11a Tx_Ch149;5745MHz
 Data Rate: 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.080	28.54	-11.46	40.00	39.55	16.36	0.88	28.25	---	---	Peak
2	167.970	33.44	-10.06	43.50	50.89	8.76	1.72	27.93	---	---	Peak
3	183.900	34.86	-8.64	43.50	51.91	9.01	1.80	27.86	100	217	Peak
4	668.200	34.98	-11.02	46.00	40.57	20.06	3.45	29.10	---	---	Peak
5	701.800	31.35	-14.65	46.00	36.81	20.13	3.50	29.10	---	---	Peak
6	802.600	30.06	-15.94	46.00	35.47	19.92	3.56	28.90	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT : NB
POWER : 120Vac/60Hz
MODEL : FR 701819-01
MEMO : 11a Tx_Ch149;5745MHz
Data Rate: 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5670.000	51.94	-22.06	74.00	44.65	35.34	6.02	34.07	100	0 Peak
2	5670.000	38.84	-15.16	54.00	31.55	35.34	6.02	34.07	107	45 Average
3 X	5745.000	103.28			95.87	35.44	6.02	34.05	100	0 Peak
4 @	5745.000	89.56			82.15	35.44	6.02	34.05	107	45 Average
5	6436.000	39.80	-14.20	54.00	30.72	35.97	6.17	33.07	107	45 Average
6	6436.000	53.69	-20.31	74.00	44.61	35.97	6.17	33.07	100	0 Peak
7	7550.000	54.93	-19.07	74.00	46.11	36.02	6.58	33.78	100	0 Peak
8	7550.000	43.12	-10.88	54.00	34.30	36.02	6.58	33.78	100	148 Average
9	11481.000	43.57	-30.43	74.00	81.68	-11.66	7.84	34.30	100	0 Peak
10	17238.000	44.56	-29.44	74.00	80.03	-11.11	9.44	33.80	100	0 Peak

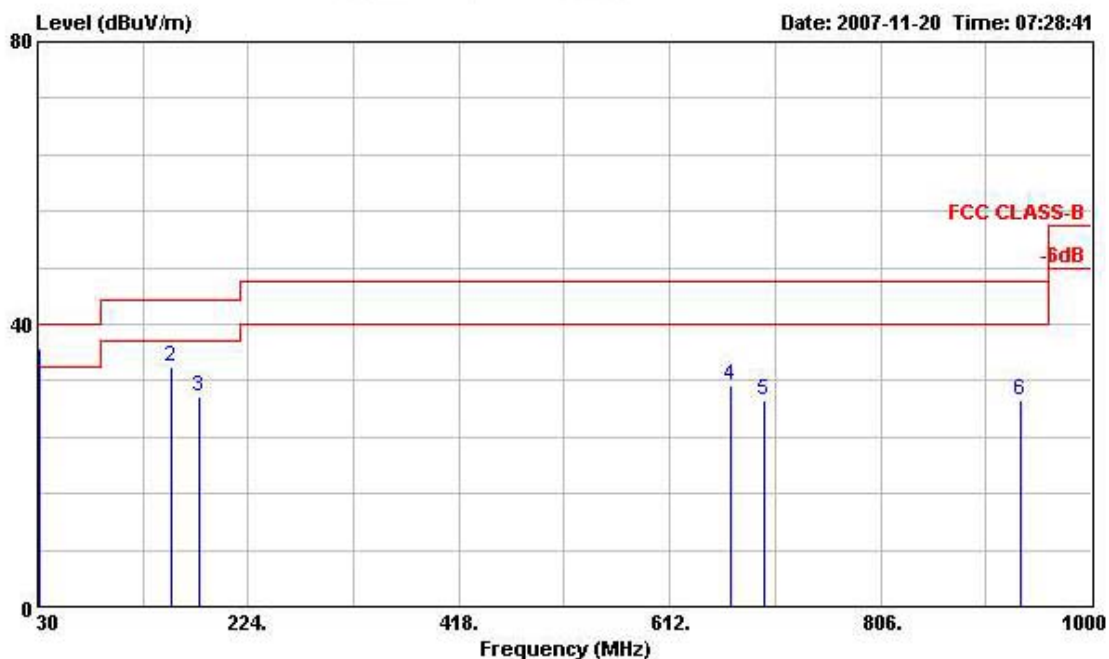
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 8

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

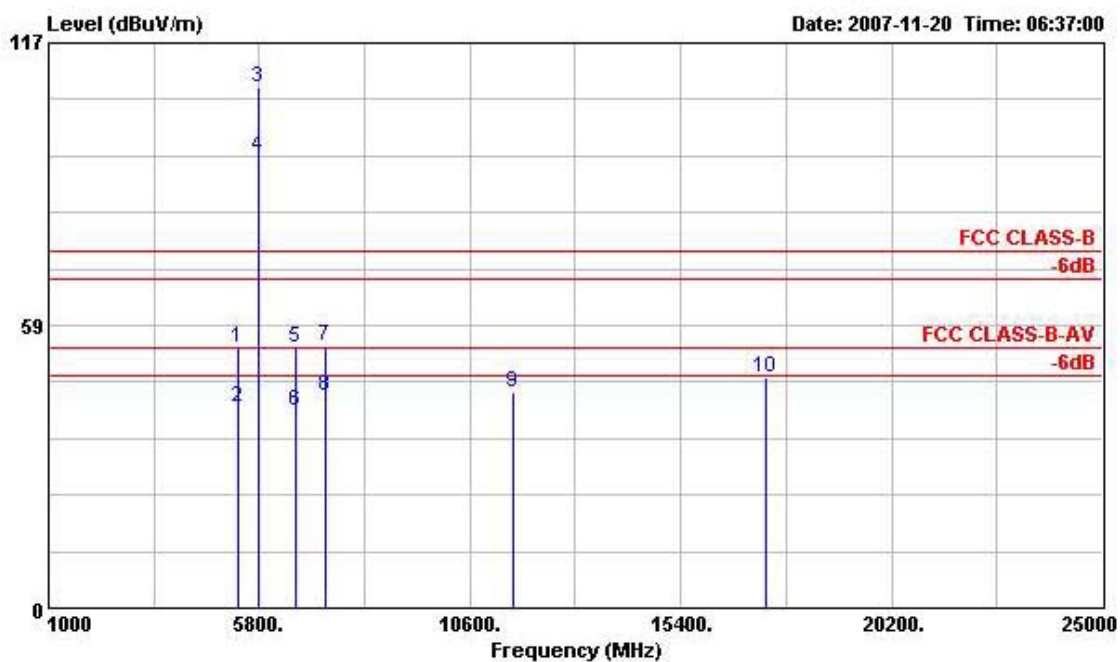
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MOME : 11a Tx_Ch157;5785MHz

Data Rate: 6

	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos Remark
					dBuV	dB/m	dB	dB	cm	deg
1	31.890	36.58	-3.42	40.00	47.61	16.34	0.89	28.26	100	198 Peak
2	153.930	34.05	-9.45	43.50	50.22	10.14	1.67	27.99	---	--- Peak
3	179.580	29.79	-13.71	43.50	46.93	8.96	1.78	27.88	---	--- Peak
4	668.200	31.26	-14.74	46.00	36.85	20.06	3.45	29.10	---	--- Peak
5	699.000	29.22	-16.78	46.00	34.69	20.14	3.50	29.10	---	--- Peak
6	934.900	29.14	-16.86	46.00	29.50	24.40	3.97	28.73	---	--- Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT : NB
POWER : 120Vac/60Hz
MODEL : FR 701819-01
MOME : 11a Tx_Ch157;5785MHz
Data Rate: 6

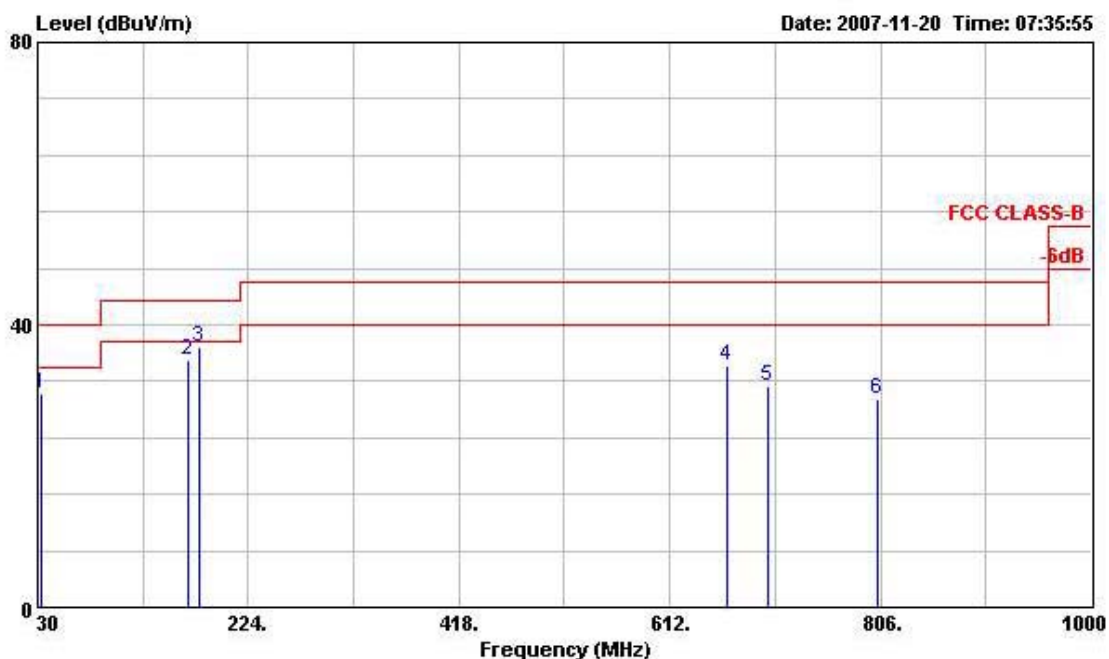
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5300.000	53.94	-20.06	74.00	47.13	34.98	6.00	34.17	100	0 Peak
2	5300.000	41.56	-12.44	54.00	34.75	34.98	6.00	34.17	128	208 Average
3 X	5785.000	107.68			100.21	35.49	6.02	34.04	100	0 Peak
4 @	5785.000	93.70			86.23	35.49	6.02	34.04	128	208 Average
5	6628.000	53.94	-20.06	74.00	44.50	36.00	6.23	32.79	100	0 Peak
6	6628.000	40.66	-13.34	54.00	31.22	36.00	6.23	32.79	128	208 Average
7	7318.000	54.25	-19.75	74.00	45.11	36.00	6.48	33.35	100	0 Peak
8	7318.000	43.76	-10.24	54.00	34.62	36.00	6.48	33.35	100	56 Average
9	11565.000	44.48	-29.52	74.00	82.49	-11.54	7.85	34.32	100	0 Peak
10	17355.000	47.65	-26.35	74.00	83.50	-11.61	9.52	33.76	100	0 Peak

Remark: #3 and #4 are Fundamental Signal



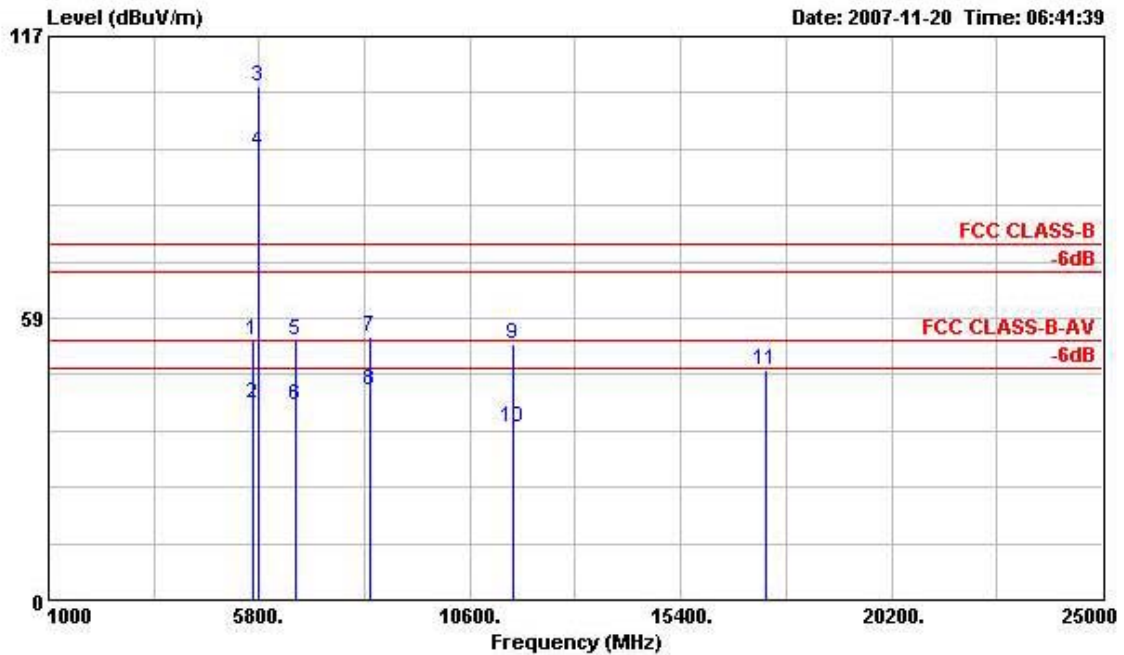
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MOME : 11a Tx_Ch157;5785MHz
 Data Rate: 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.970	30.18	-9.82	40.00	41.22	16.33	0.90	28.26	---	---	Peak
2	167.970	34.89	-8.61	43.50	52.34	8.76	1.72	27.93	---	---	Peak
3	179.580	36.80	-6.70	43.50	53.94	8.96	1.78	27.88	100	175	Peak
4	665.400	34.20	-11.80	46.00	39.80	20.06	3.45	29.10	---	---	Peak
5	701.800	31.39	-14.61	46.00	36.85	20.13	3.50	29.10	---	---	Peak
6	802.600	29.37	-16.63	46.00	34.78	19.92	3.56	28.90	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MOME : 11a Tx_Ch157;5785MHz
 Data Rate: 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5660.000	54.05	-19.95	74.00	46.78	35.32	6.02	34.07	100	0	Peak
2	5660.000	40.66	-13.34	54.00	33.39	35.32	6.02	34.07	102	40	Average
3 X	5785.000	106.49			99.02	35.49	6.02	34.04	100	0	Peak
4 @	5785.000	93.20			85.73	35.49	6.02	34.04	102	40	Average
5	6646.000	53.74	-20.26	74.00	44.29	36.00	6.24	32.79	100	0	Peak
6	6646.000	40.38	-13.62	54.00	30.93	36.00	6.24	32.79	102	40	Average
7	8326.000	54.51	-19.49	74.00	45.43	36.27	6.92	34.11	100	0	Peak
8	8326.000	43.48	-10.52	54.00	34.40	36.27	6.92	34.11	100	216	Average
9	11574.000	53.01	-20.99	74.00	90.98	-11.49	7.85	34.33	100	0	Peak
10	11574.000	35.81	-18.19	54.00	73.78	-11.49	7.85	34.33	100	185	Average
11	17349.000	47.81	-26.19	74.00	83.62	-11.57	9.52	33.76	100	0	Peak

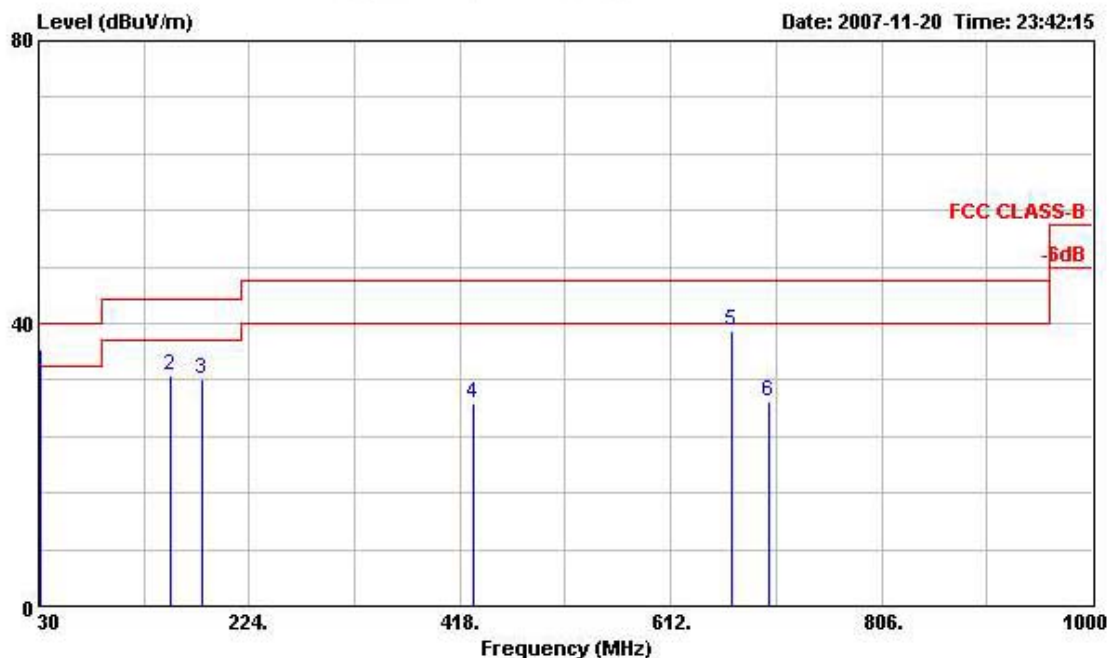
Remark: #3 and #4 are Fundamental Signal



Test Mode : Mode 9

Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY

Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL

EUT : NB

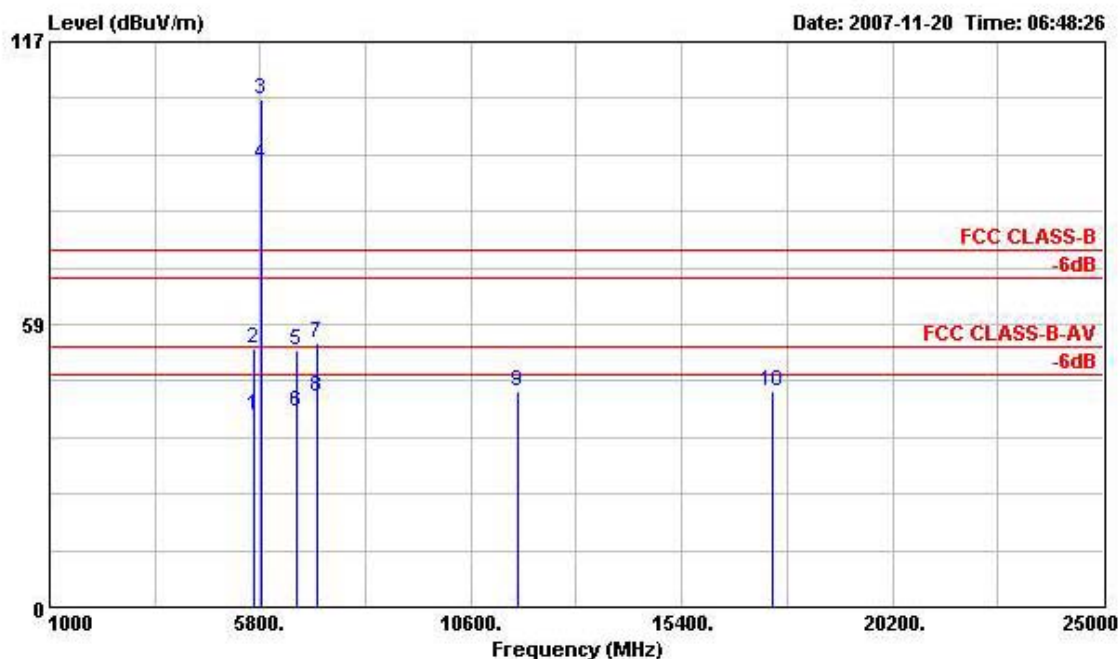
POWER : 120Vac/60Hz

MODEL : FR 701819-01

MOME : 11a Tx_Ch165;5825MHz

Data Rate: 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.890	36.25	-3.75	40.00	47.28	16.34	0.89	28.26	100	214	Peak
2	151.500	32.68	-10.82	43.50	48.40	10.61	1.66	27.99	---	---	Peak
3	180.930	32.10	-11.40	43.50	49.13	9.06	1.79	27.88	---	---	Peak
4	430.900	28.69	-17.31	46.00	38.43	16.11	2.67	28.51	---	---	Peak
5	668.200	38.87	-7.13	46.00	44.46	20.06	3.45	29.10	---	---	Peak
6	701.800	28.94	-17.06	46.00	34.40	20.13	3.50	29.10	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MOME : 11a Tx_Ch165;5825MHz
 Data Rate: 6

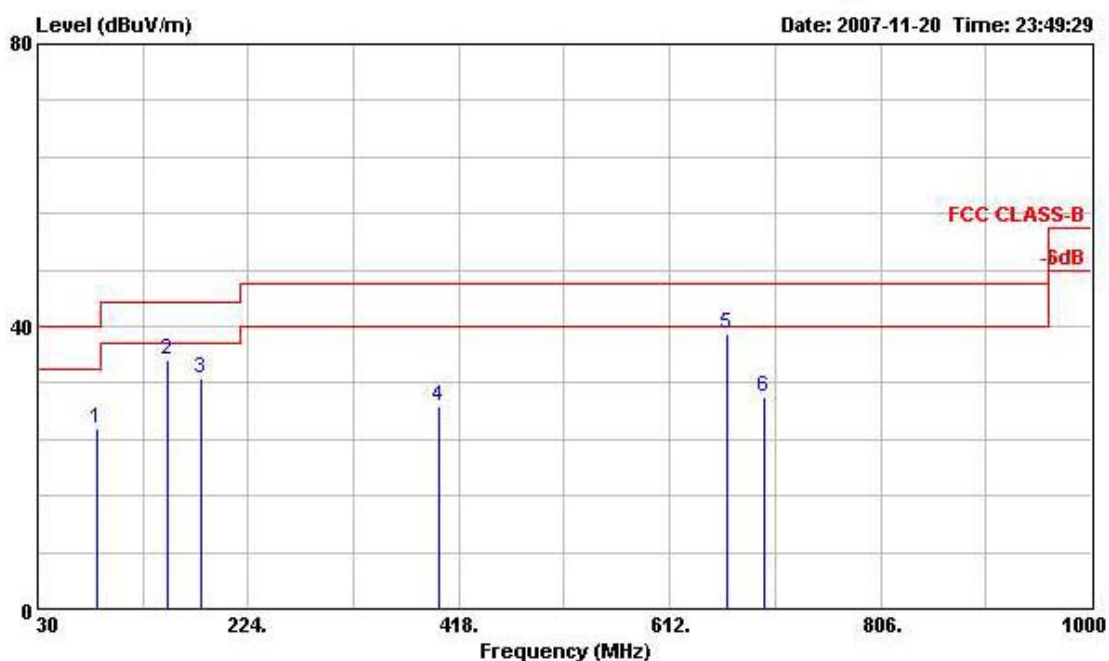
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5654.000	39.76	-14.24	54.00	32.49	35.32	6.02	34.07	119	40	Average
2	5654.000	53.34	-20.66	74.00	46.07	35.32	6.02	34.07	100	0	Peak
3 X	5825.000	105.25			97.70	35.56	6.02	34.04	100	0	Peak
4 @	5825.000	91.69			84.14	35.56	6.02	34.04	119	40	Average
5	6614.000	53.20	-20.80	74.00	43.78	36.00	6.23	32.82	100	0	Peak
6	6614.000	40.37	-13.63	54.00	30.95	36.00	6.23	32.82	119	40	Average
7	7092.000	54.58	-19.42	74.00	44.94	36.00	6.40	32.76	100	0	Peak
8	7092.000	43.58	-10.42	54.00	33.94	36.00	6.40	32.76	100	174	Average
9	11646.000	44.64	-29.36	74.00	82.28	-11.14	7.86	34.35	100	0	Peak
10	17469.000	44.56	-29.44	74.00	80.72	-12.07	9.62	33.71	100	0	Peak

Remark: #3 and #4 are Fundamental Signal



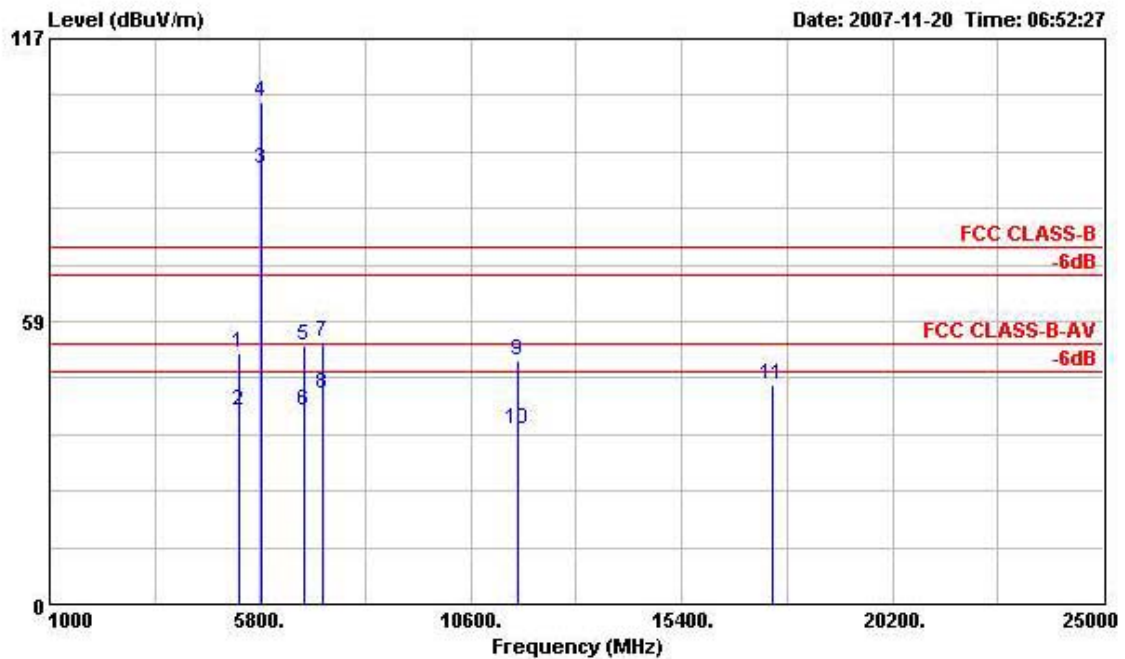
Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : NB
 POWER : 120Vac/60Hz
 MODEL : FR 701819-01
 MOME : 11a Tx_Ch165;5825MHz
 Data Rate: 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	84.810	25.61	-14.39	40.00	45.29	7.25	1.31	28.23	---	---
2	150.420	35.24	-8.26	43.50	50.81	10.77	1.66	28.00	---	---
3	180.660	32.56	-10.94	43.50	49.57	9.08	1.79	27.88	---	---
4	399.400	28.63	-17.37	46.00	38.60	15.75	2.57	28.29	---	---
5	665.400	38.89	-7.11	46.00	44.49	20.06	3.45	29.10	100	184
6	699.000	30.12	-15.88	46.00	35.59	20.14	3.50	29.10	---	---



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT : MB
POWER : 120Vac/60Hz
MODEL : FR 701819-01
MOME : 11a Tx_Ch165;5825MHz
Data Rate: 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5316.000	52.09	-21.91	74.00	45.27	34.99	6.00	34.17	100	0	Peak
2	5316.000	39.88	-14.12	54.00	33.06	34.99	6.00	34.17	101	24	Average
3 @	5825.000	89.94			82.39	35.56	6.02	34.04	101	24	Average
4 X	5825.000	103.76			96.21	35.56	6.02	34.04	100	0	Peak
5	6814.000	53.48	-20.52	74.00	43.83	36.00	6.30	32.65	100	0	Peak
6	6814.000	40.00	-14.00	54.00	30.35	36.00	6.30	32.65	101	24	Average
7	7214.000	54.29	-19.71	74.00	44.93	36.00	6.45	33.09	100	0	Peak
8	7214.000	43.61	-10.39	54.00	34.25	36.00	6.45	33.09	100	113	Average
9	11649.000	50.57	-23.43	74.00	88.22	-11.14	7.86	34.36	100	0	Peak
10	11649.000	36.25	-17.75	54.00	73.90	-11.14	7.86	34.36	102	186	Average
11	17469.000	45.24	-28.76	74.00	81.40	-12.07	9.62	33.71	100	0	Peak

Remark: #3 and #4 are Fundamental Signal



5.7 Antenna Requirements

5.7.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.7.2 Antenna Connected Construction

The antennas used in this product are PIFA Antenna for both WLAN and BT without connector and it is considered to meet antenna requirement of FCC.

5.7.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

6. List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Feb. 29, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 30, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 21, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Apr. 19, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	Mar. 09, 2007	Mar. 08, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO04-HY)
3m Semi Anechoic	TDK	SAC-3M	03CH04-HY	30 MHz - 1 GHz 3m	Oct. 29, 2007	Oct. 28, 2008	Radiation (03CH04-HY)
Amplifier	HP	87405A	3950M00135	10MHz - 3 GHz	Mar. 02, 2007	Mar. 01, 2008	Radiation (03CH04-HY)
Spectrum Analyzer	R&S	FSP30	100792	9 kHz – 30GHz	Dec. 13, 2006	Dec. 12, 2007	Radiation (03CH04-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2724	30 MHz - 1 GHz	Aug. 13, 2007	Aug. 12, 2008	Radiation (03CH04-HY)
Turn Table	HD	Deis HD 2000	420/610	0 - 360 degree	N/A	N/A	Radiation (03CH04-HY)
Antenna Mast	Chaintek	3000	N/A	1 m - 4 m	N/A	N/A	Radiation (03CH04-HY)
RF Cable-R03m	Suhner Switzerland +	RG223/U +RG8/U	CB024	30 MHz - 1 GHz	Sep. 20, 2007	Sep. 19, 2008	Radiation (03CH04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	N/A	45 MHz – 2.15 GHz	N/A	N/A	Radiation (03CH04-HY)

7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				

The measured result is : $y \text{ dBuV} \pm U \text{ dB}$
for a level of confidence of approximately 95% , ($k = 2$)