



FCC Test Report

for

47 CFR Part 15 Subpart C

Equipment : Notebook PC

Trade Name : MTC; GETAC

Model No. : B300

FCC ID : MAU300

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. 17, 2007 at **Sporton International Inc. LAB.**
- Report No.: FR7O1819-D, Report Version: Rev. 01.

Jones Tsai
Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.



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History of this test report

Report Issue Date: Nov. 28, 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
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	1.73meter shielded with ferrite core
Battery	Brand Name	SAYNO
	Model Name	BP3S3P2550(P)
	Rating	10.8Vdc, 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. Number of Channels	802.11a : 8 (Band I and II) / 5 Channels (Band III) 802.11b/g : 11 Channels 802.11n : 36-48 Channels, 149-165 Channels Bluetooth : 79 Channels			
3. Frequency Band	802.11a : 5150 ~ 5350MHz (Band I,II) / 5725MHz ~ 5850MHz (Band III) 802.11b/g : 2400MHz ~ 2483.5MHz 802.11n : 5150 ~ 5350MHz (Band I,II) / 5725MHz ~ 5850MHz (Band III) Bluetooth : 2400MHz ~ 2483.5MHz			
4. Carrier Frequency of each channel	802.11a,11n Band I : 5000+n*5 MHz, n=36, 40, 44, 48 802.11a,11n Band II : 5000+n*5 MHz, n=52, 56, 60, 64 802.11a,11n 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)	802.11b : 14.66 dBm 802.11g : 21.66 dBm 802.11a : 16.98 dBm (Band I) / 17.86 dBm (Band II) / 21.09 dBm (Band III) 802.11n (g) : 23.94 dBm 802.11n (a) : 16.77 dBm (Band I, BW 20M) 16.84 dBm (Band I, BW 40M) 19.55 dBm (Band II, BW 20M) 16.81 dBm (Band II, BW 40M) 24.83 dBm (Band III, BW 20M) 21.89 dBm (Band III, BW 40M) Bluetooth : -0.21 dBm			
7. HW Version :	R01			
8. Type of Antenna Connector	N/A			
9. Antenna Type	WLAN : PIFA Antenna Bluetooth : PIFA Antenna			
10. Antenna Gain	WLAN : 1.55 dBi Bluetooth : -1.09 dBi			
11. 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	Delta ADP-90SB BB
MDC	RD02-D330,AZALIA,BILLIONTON	
WLAN	Intel wireless 4965 802.11a/g/n (MOW1)	Intel wireless 4965 802.11a/g/n (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 for each modes are as below:

802.11b

Channel	Frequency (MHz)	Data Rate (Mbps)			
		1	2	5.5	11
CH 01	2412 MHz	14.30	14.06	14.21	14.25
CH 06	2437 MHz	14.10	14.33	14.52	14.44
CH 11	2462 MHz	14.18	14.66	14.35	14.05

802.11g

Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2412 MHz	20.50	20.72	21.32	20.89	21.15	21.06	20.70	20.10
CH 06	2437 MHz	20.67	20.49	20.58	20.52	20.78	20.24	20.84	20.85
CH 11	2462 MHz	21.66	21.09	21.34	21.12	21.25	21.00	20.74	20.71

802.11a

Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 149	5745 MHz	20.57	21.09	20.85	21.03	20.82	20.73	20.68	18.59
CH 157	5785 MHz	20.61	20.35	20.17	19.93	19.91	20.42	20.07	18.37
CH 165	5825 MHz	20.54	20.35	20.79	20.78	20.97	20.23	20.03	18.44

802.11n(g) (BW 20M)

Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 01	2412 MHz	22.31	22.99	22.57	22.80	22.60	22.67	22.96	22.95
CH 06	2437 MHz	22.42	22.76	22.88	23.02	23.00	22.82	23.06	22.86
CH 11	2462 MHz	23.99	23.60	23.32	23.24	23.80	23.24	23.94	23.66



802.11n(a) (20M)

Channel	Frequency (MHz)	Data Rate (Mbps)						
		6	9	12	18	24	36	48
CH 149	5745 MHz	24.18	24.05	24.51	24.4	24.76	24.83	24.55
CH 157	5785 MHz	23.98	24.14	24.26	24.37	24.55	24.48	24.63
CH 165	5825 MHz	23.89	23.85	23.85	24.18	24.07	23.89	23.89

802.11n(a) (40M)

Channel	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
CH 151	5755 MHz	21.76	21.86	21.79	21.86	21.85	21.74	21.82	21.89
CH 159	5795 MHz	21.87	21.71	21.57	21.46	21.74	21.76	21.75	21.68

- c. The highest RF output power's test modes were chosen for testing .

2.2 Test Mode

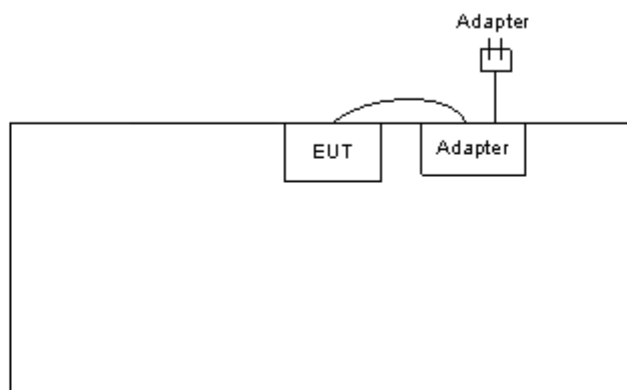
Application			
Radiated Emission / RF Conducted	802.11b	802.11g	802.11a
	Mode1:CH01_2412MHz	Mode4:CH01_2412MHz	Mode 7: CH149_5745MHz
	Mode2:CH06_2437MHz	Mode5:CH06_2437MHz	Mode 8: CH157_5785MHz
	Mode3:CH11_2462MHz	Mode6:CH11_2462MHz	Mode 9: CH165_5825MHz
	802.11n(g)	802.11n(a)	
	Mode 10: CH01_2412 MHz(BW 20M)	Mode13: CH149_5745MHz(BW 20M)	
	Mode 11: CH06_2437 MHz(BW 20M)	Mode14: CH157_5785MHz(BW 20M)	
	Mode 12: CH11_2462 MHz(BW 20M)	Mode15: CH165_5825MHz(BW 20M)	
Co-location			
	Mode 18 : 802.11n(a) (BW 20M) Tx_Ch165 + BT Tx_Ch78		
Conducted Emission	Mode 1: BT Link + WLAN Link + Adapter		

2.3 Ancillary Equipment List

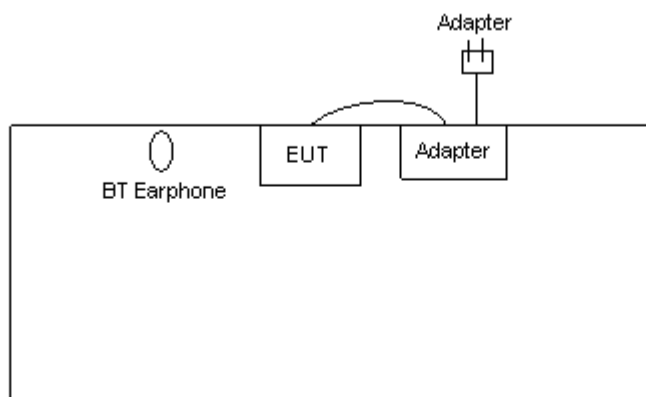
Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable / Power Cord
1.	Bluetooth Earphone	Engotech	ET-BH111	PQY471087	N/A

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 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

5.2 6dB Bandwidth Measurement

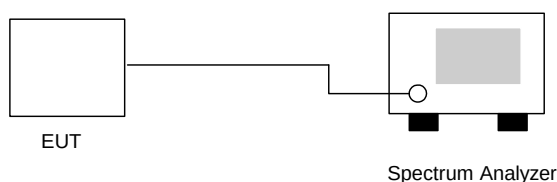
5.2.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.2.2 Test Procedure :

1. The transmitter output was connected to 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.

5.2.3 Test Setup Layout :



5.2.4 Test Result :

- Application Type : WLAN 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Engineer : Ken

802.11b

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	13.08	> 0.5MHz	Mode 1
06	2437	13.04	> 0.5MHz	Mode 2
11	2462	13.08	> 0.5MHz	Mode 3

802.11g

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	16.36	> 0.5MHz	Mode 4
06	2437	16.36	> 0.5MHz	Mode 5
11	2462	16.36	> 0.5MHz	Mode 6

802.11a

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
149	5745	16.36	> 0.5MHz	Mode 7
157	5785	16.36	> 0.5MHz	Mode 8
165	5825	16.36	> 0.5MHz	Mode 9

802.11n(g)_BW 20M

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	17.56	> 0.5MHz	Mode 10
06	2437	17.60	> 0.5MHz	Mode 11
11	2462	17.52	> 0.5MHz	Mode 12

802.11n(a)_BW 20M

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
149	5745	17.60	> 0.5MHz	Mode 13
157	5785	17.56	> 0.5MHz	Mode 14
165	5825	17.56	> 0.5MHz	Mode 15

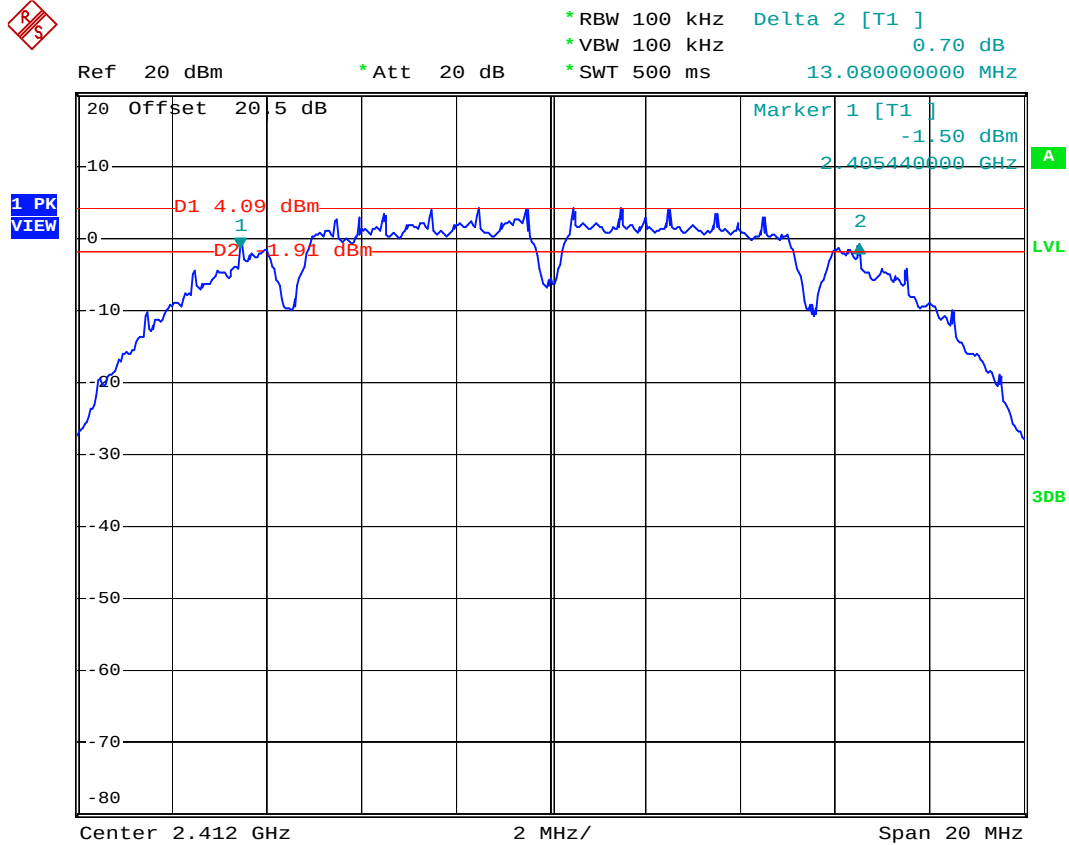
802.11n(a)_BW 40M

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
151	5755	34.32	> 0.5MHz	Mode 16
159	5795	34.40	> 0.5MHz	Mode 17



5.2.5 6dB Bandwidth

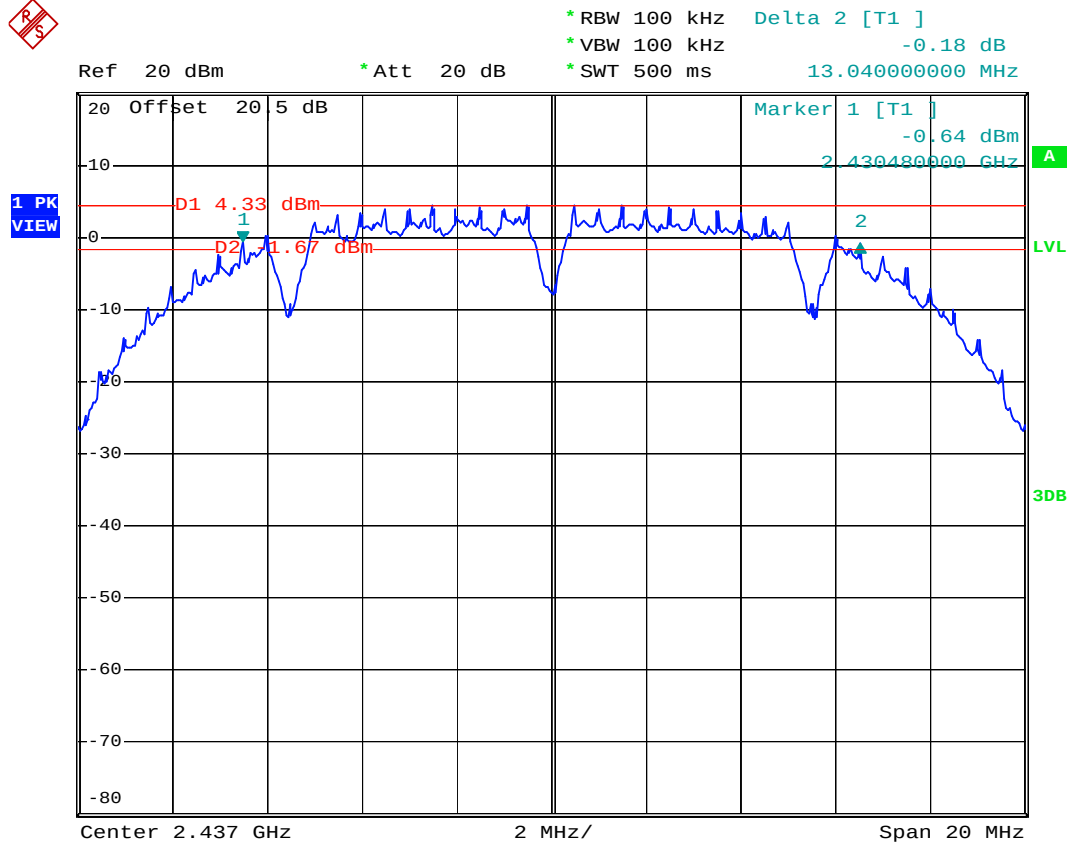
Mode 1



Date: 5.NOV.2007 20:02:31



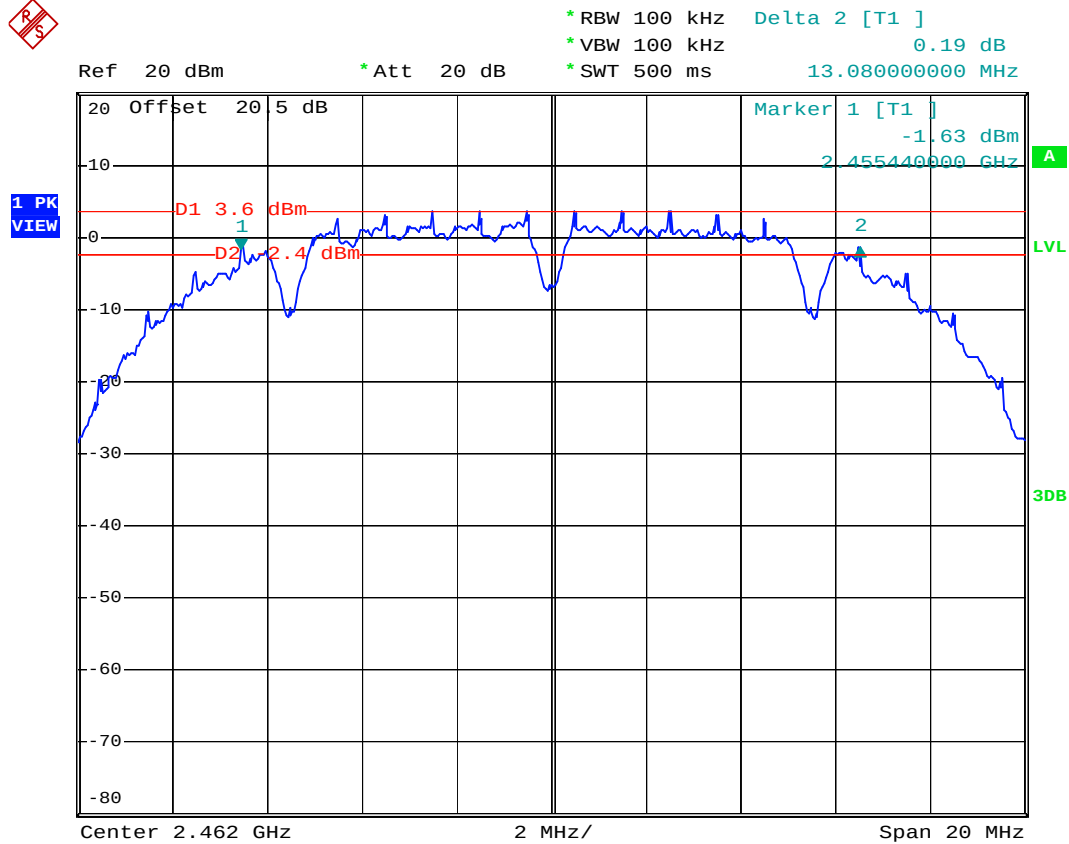
Mode 2



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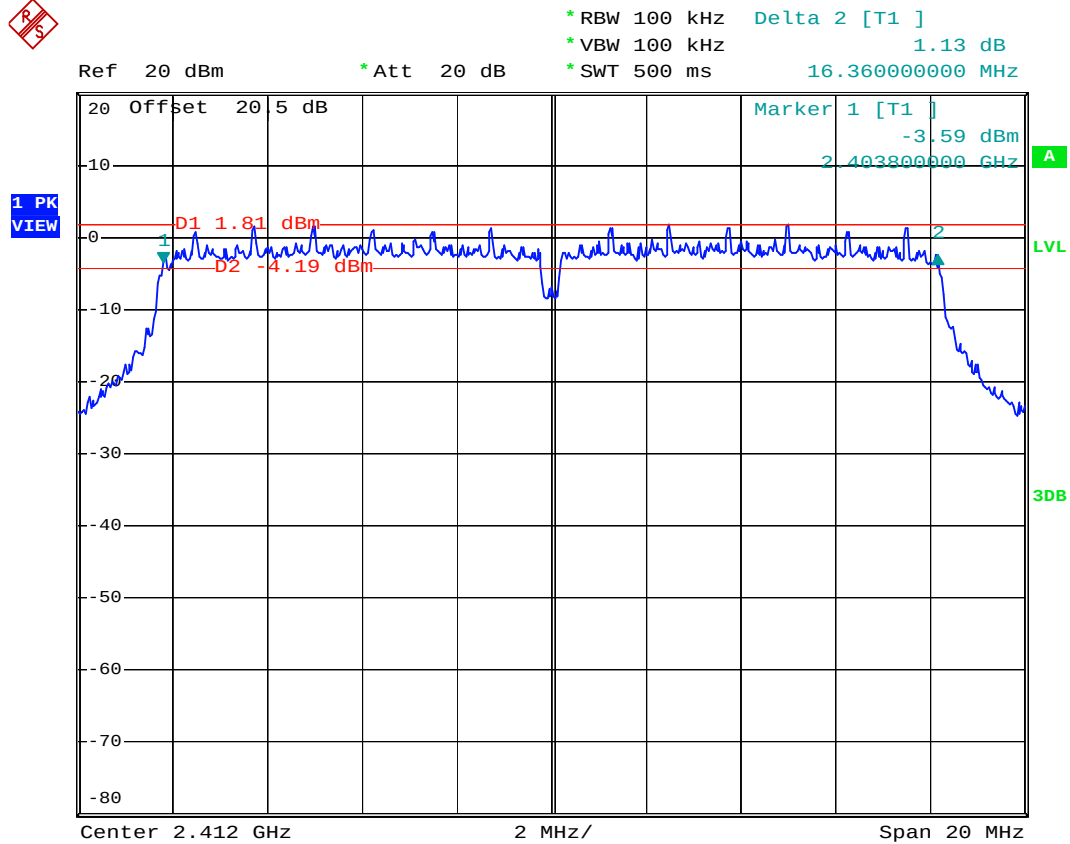
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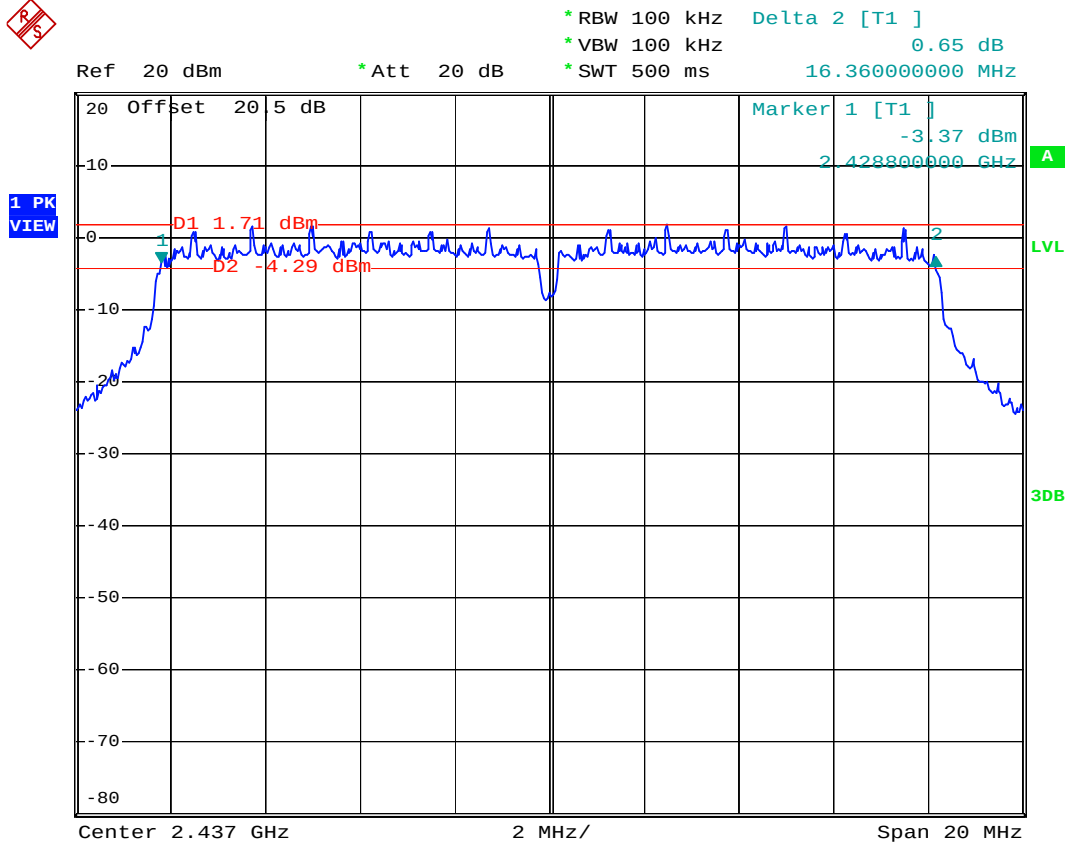
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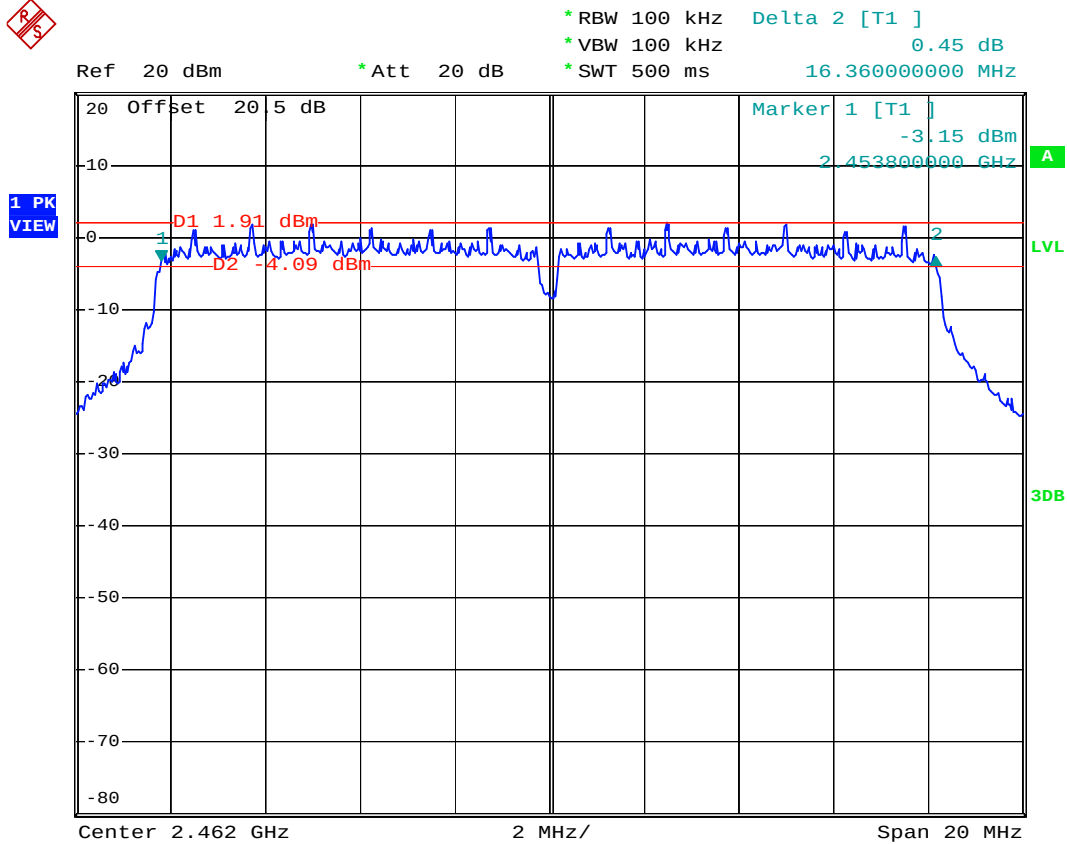
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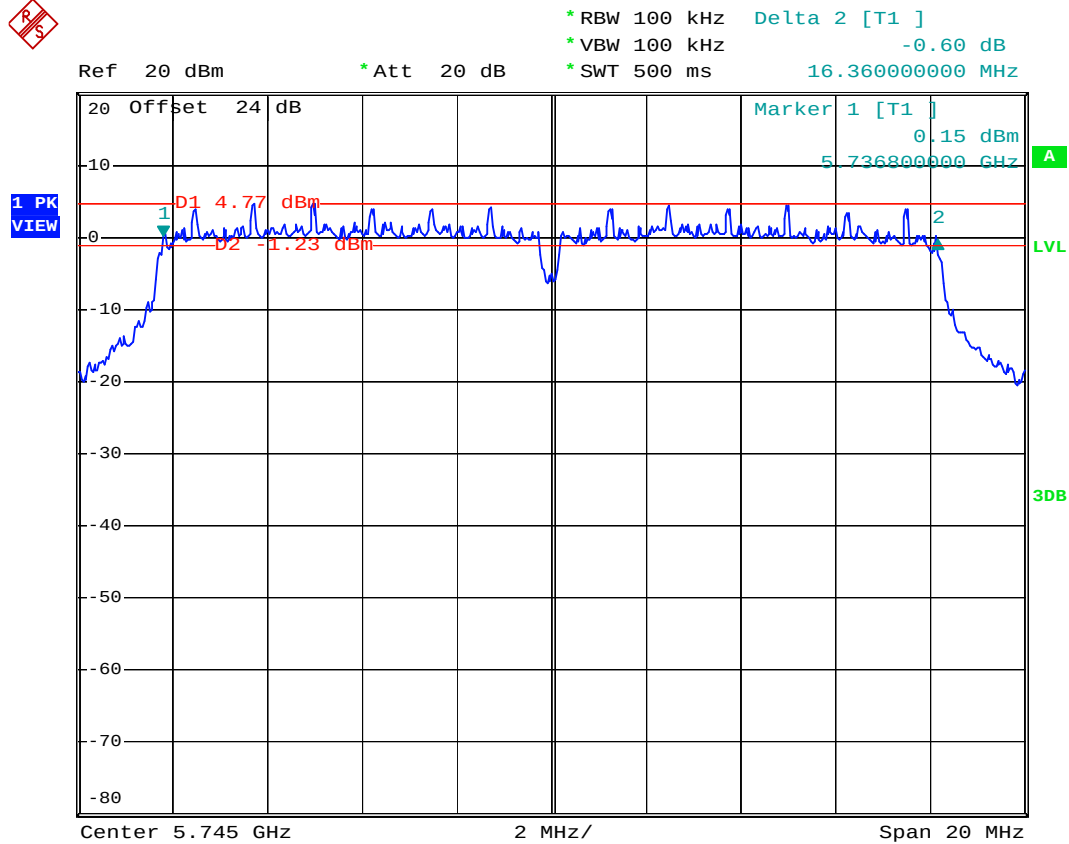
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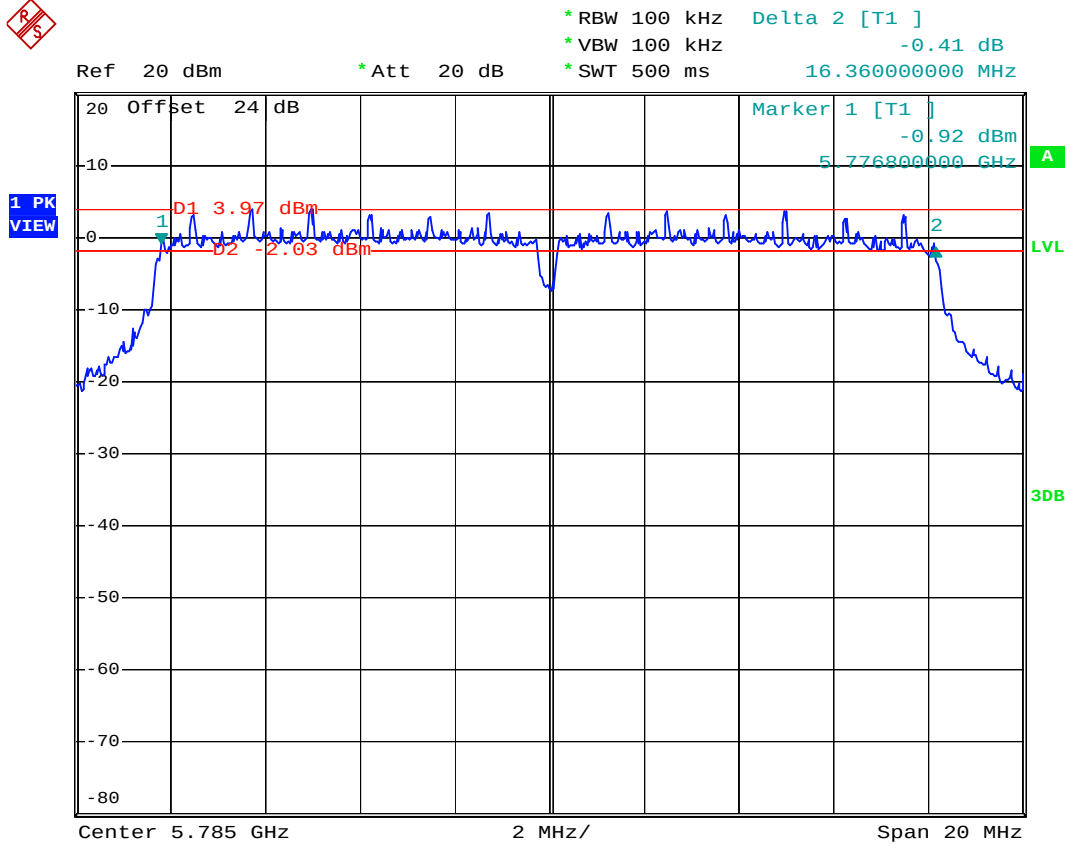
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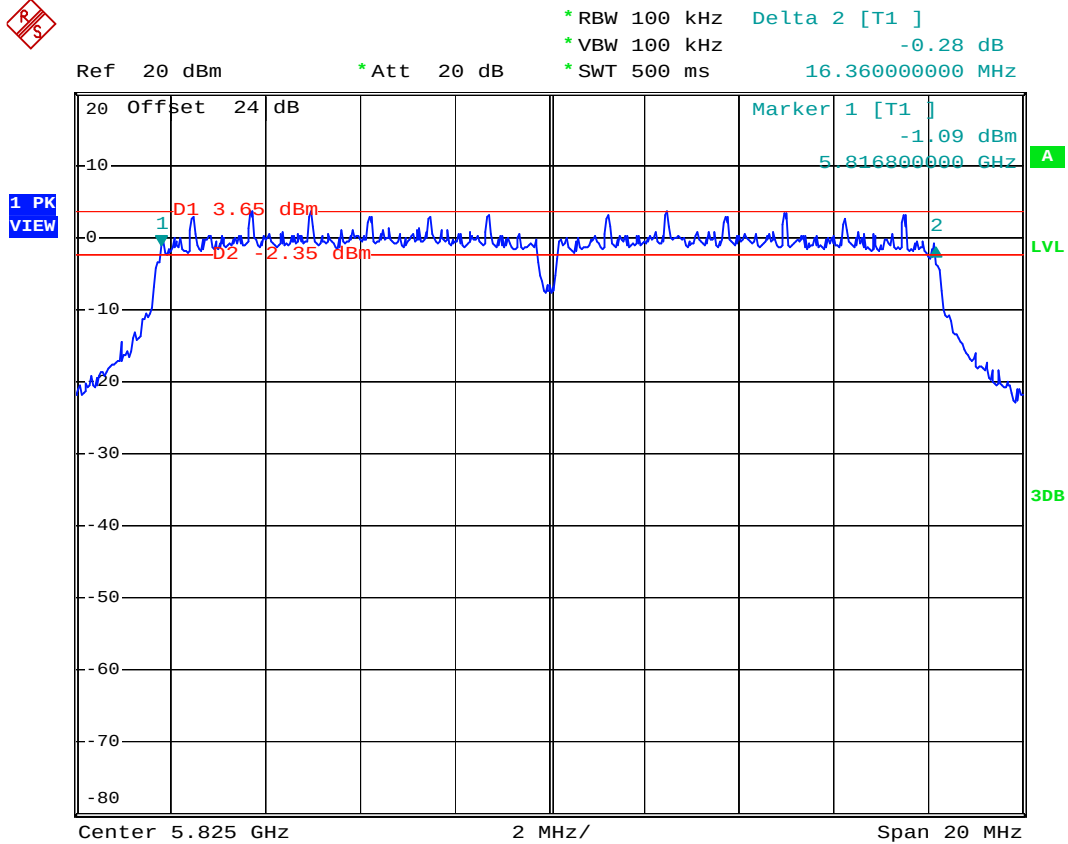
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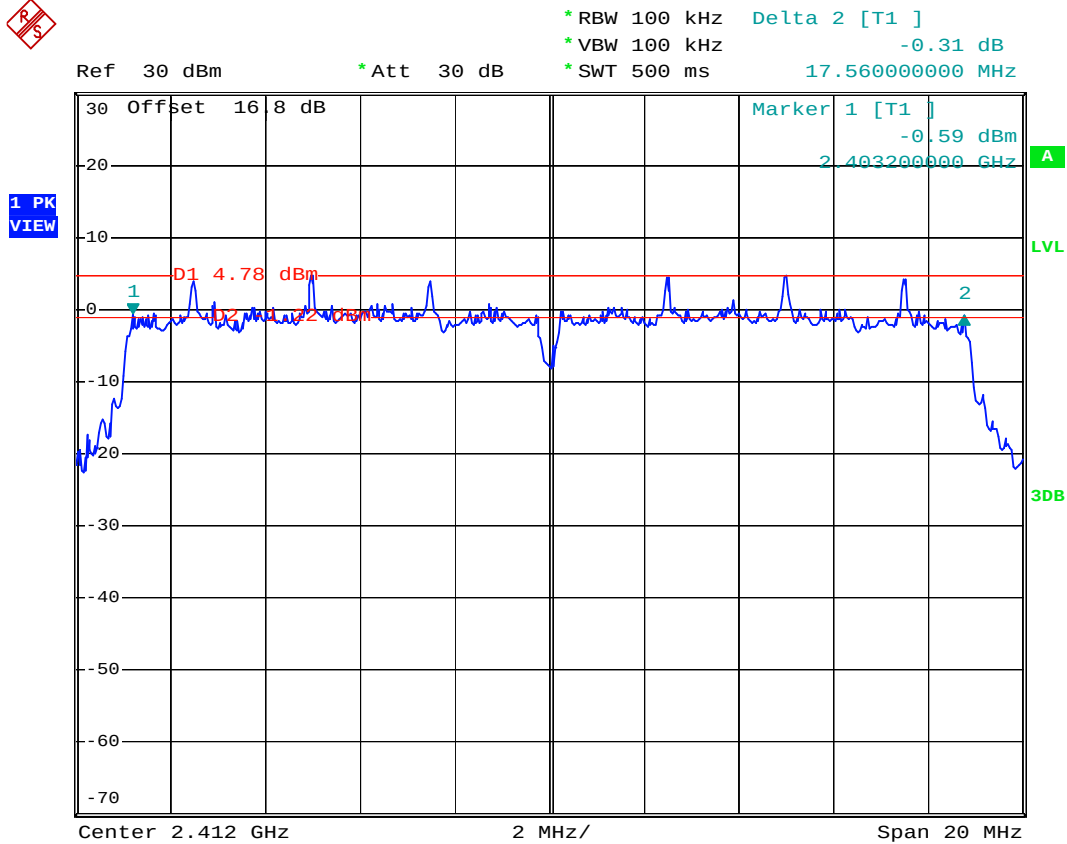
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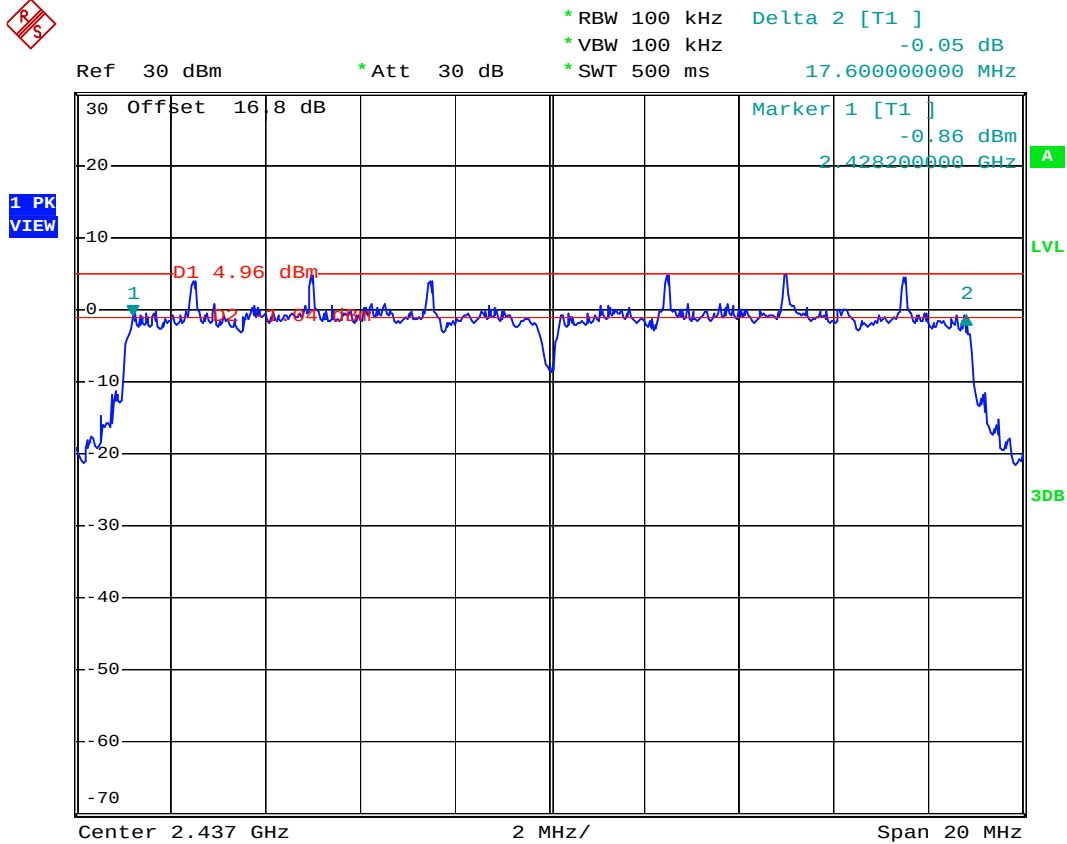
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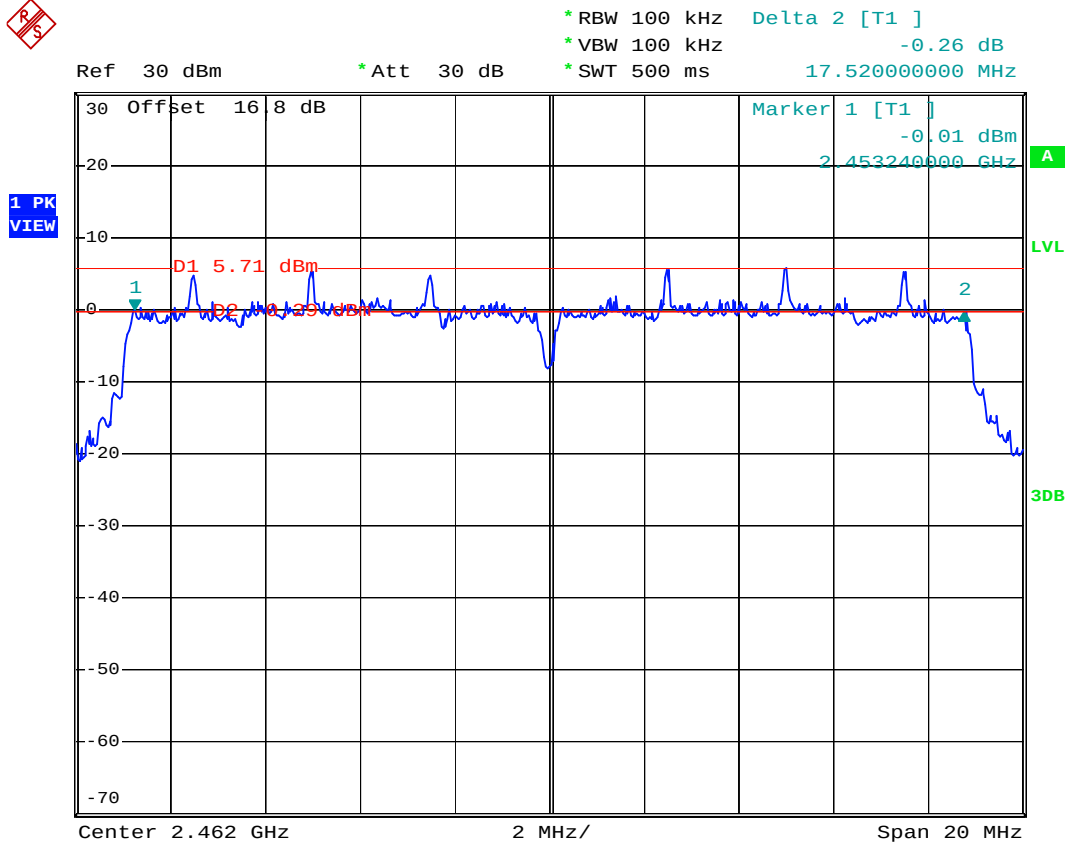
Mode 11



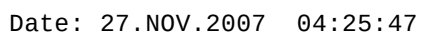
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Mode 12

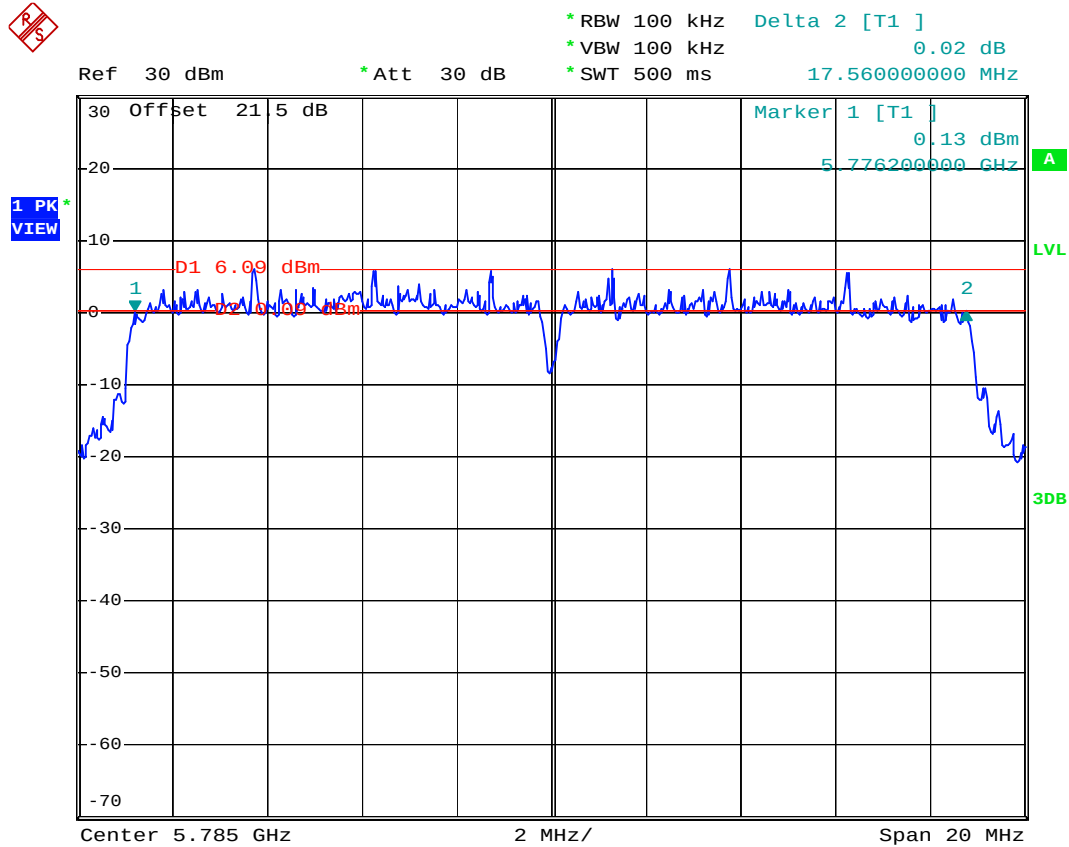


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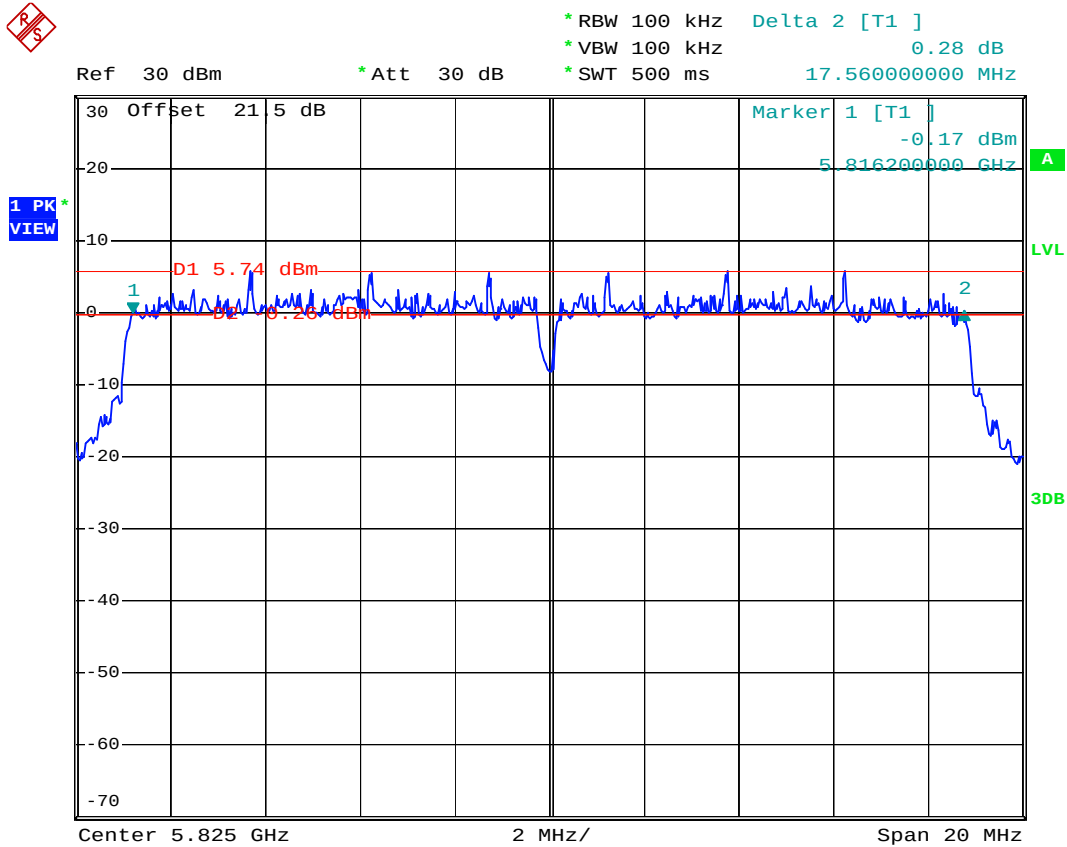
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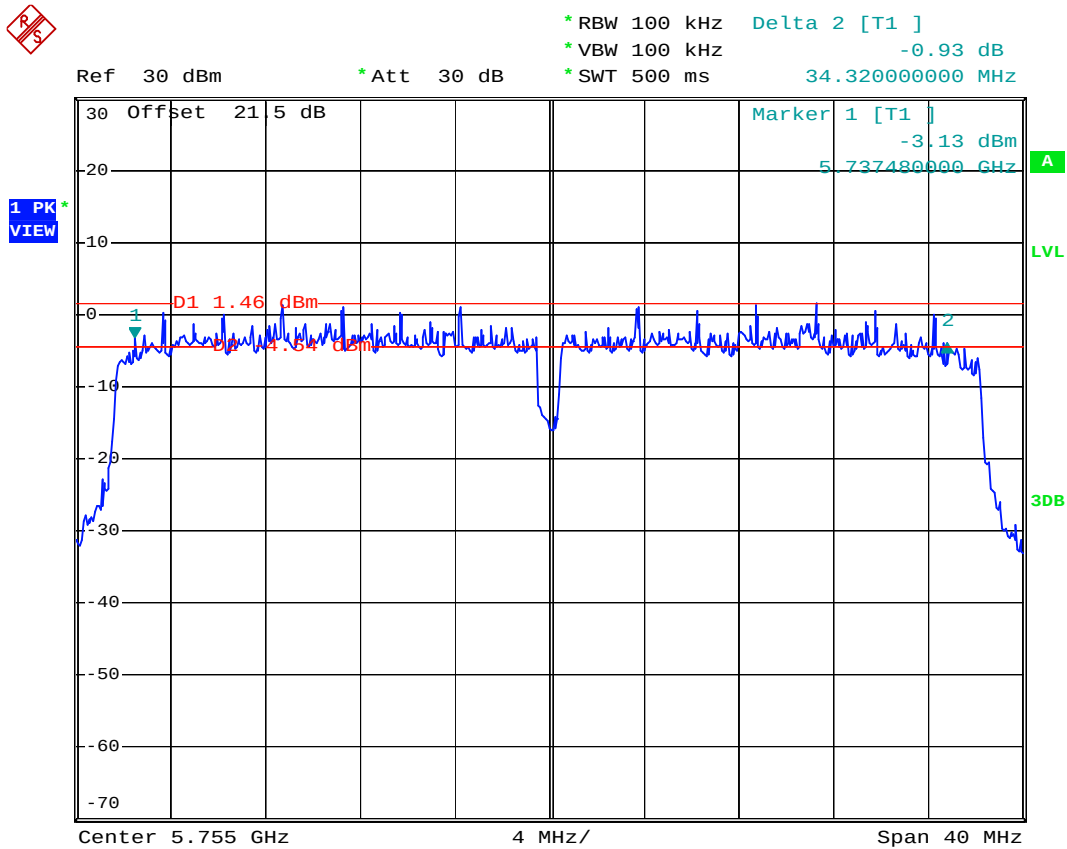
Mode 15



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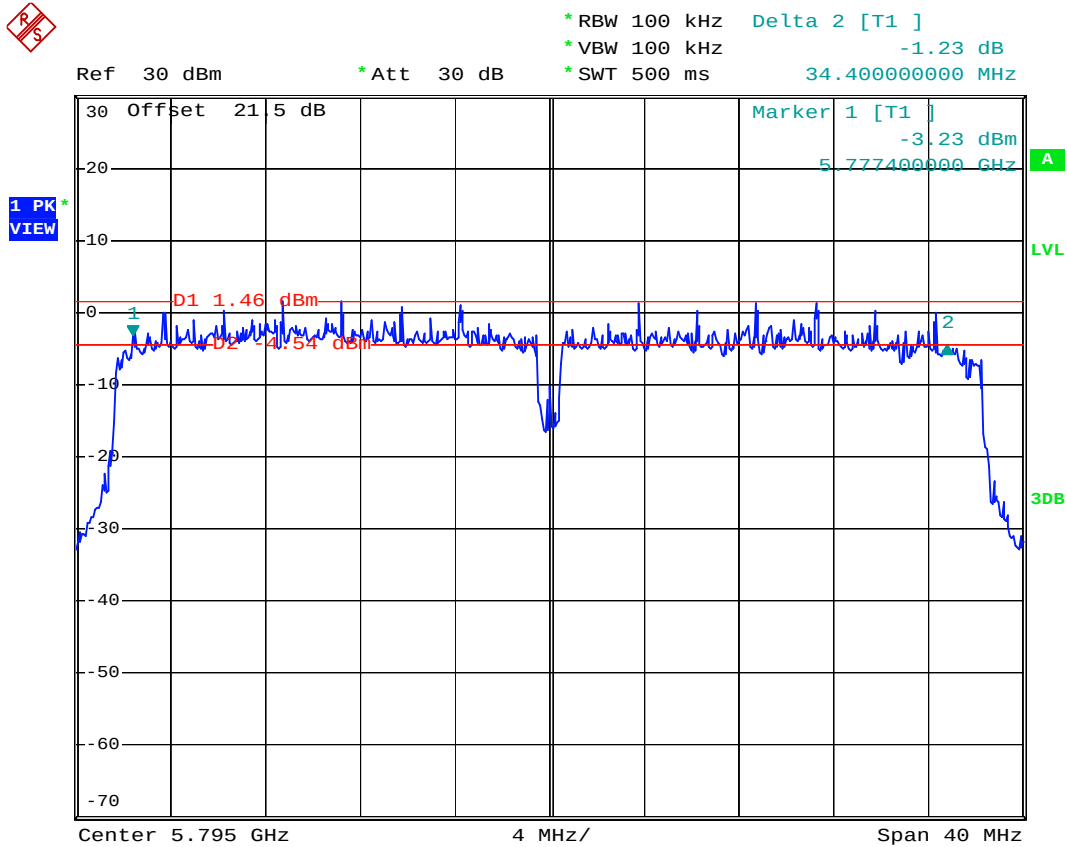
Mode 16



Date: 10.NOV.2007 02:25:31



Mode 17



Date: 10.NOV.2007 02:24:04

5.3 Power Spectral Density Measurement

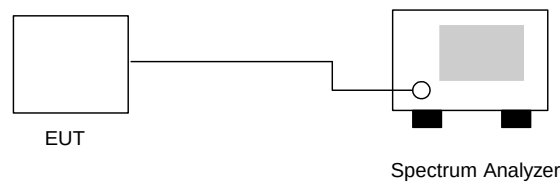
5.3.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.3.2 Test Procedure :

1. The transmitter output was connected to 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.

5.3.3 Test Setup Layout :



5.3.4 Test Result :

- Application Type : 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Enginner : Ken

802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-10.75	8	Mode 1
06	2437	-11.60	8	Mode 2
11	2462	-9.20	8	Mode 3

802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-10.70	8	Mode 4
06	2437	-11.08	8	Mode 5
11	2462	-10.60	8	Mode 6

802.11a

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
149	5745	-9.35	8	Mode 7
157	5785	-10.23	8	Mode 8
165	5825	-10.07	8	Mode 9

802.11n(g) BW 20M

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-12.26	8	Mode 10
06	2437	-12.38	8	Mode 11
11	2462	-10.98	8	Mode 12

**802.11n(a) BW 20M**

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
149	5745	-8.82	8	Mode 13
157	5785	-8.31	8	Mode 14
165	5825	-8.80	8	Mode 15

802.11n(a) BW 40M

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
151	5755	-14.07	8	Mode 16
159	5795	-13.44	8	Mode 17

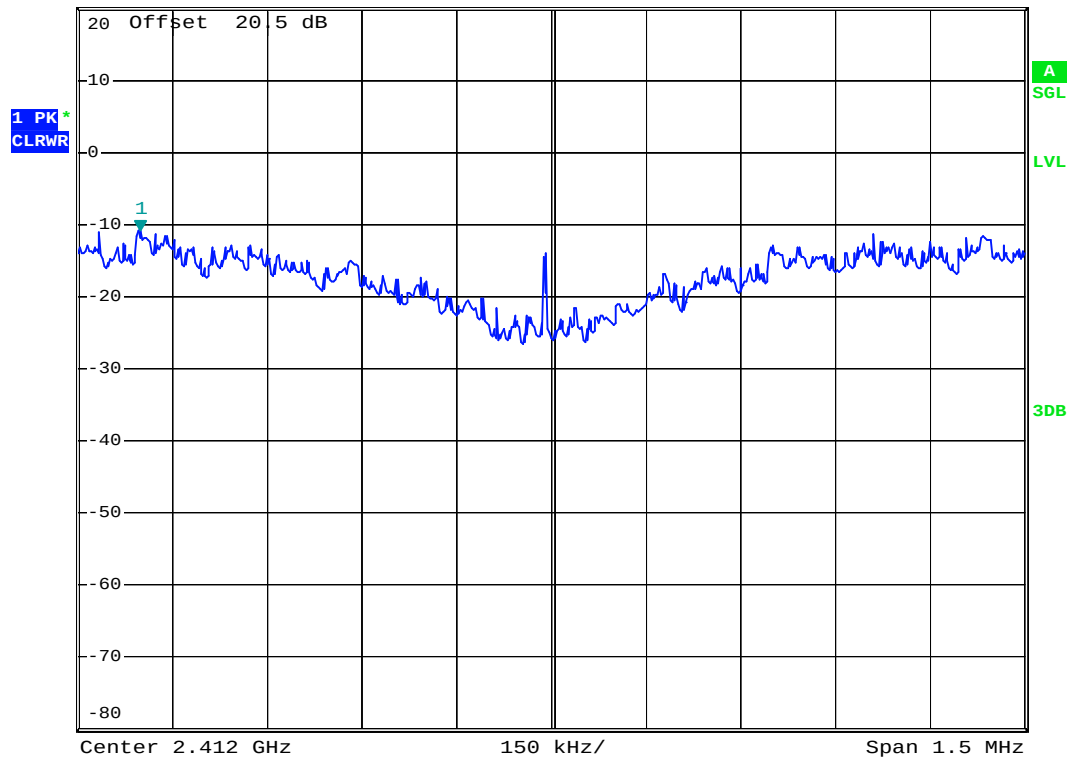


5.3.5 Power Spectral Density

Mode 1



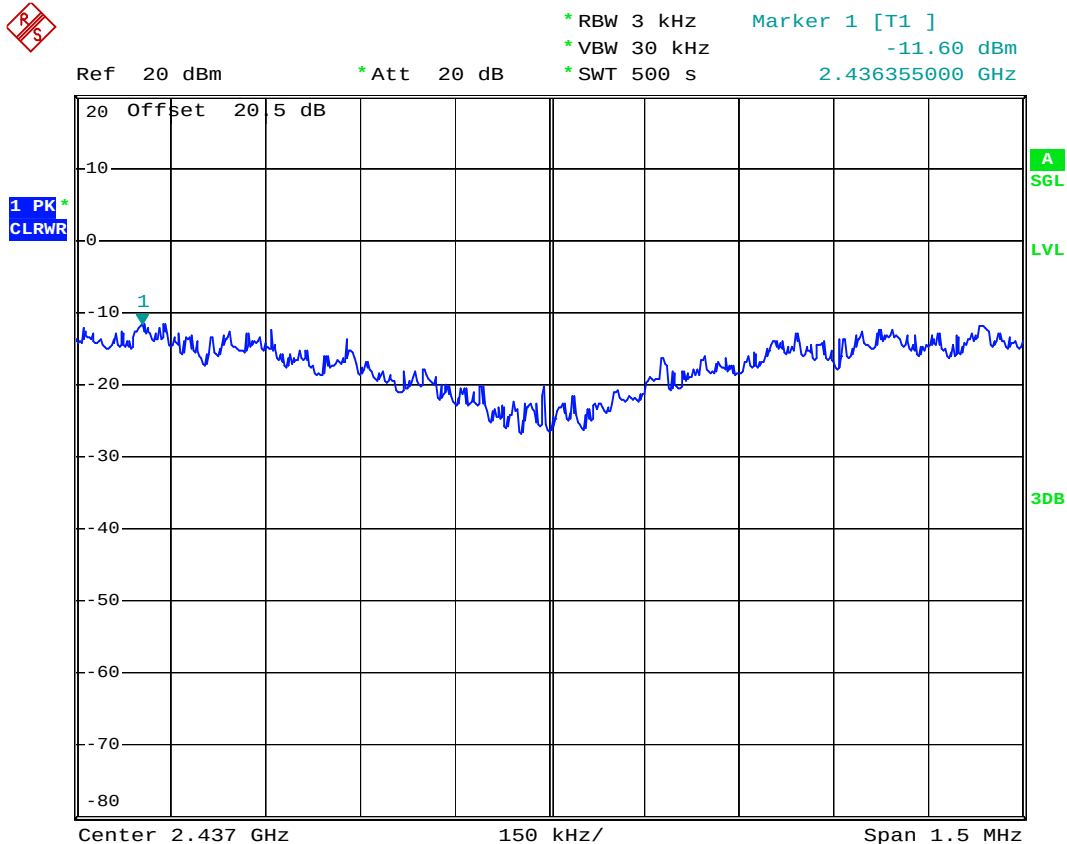
Ref 20 dBm * Att 20 dB * RBW 3 kHz * VBW 30 kHz * SWT 500 s Marker 1 [T1] -10.75 dBm 2.411349000 GHz



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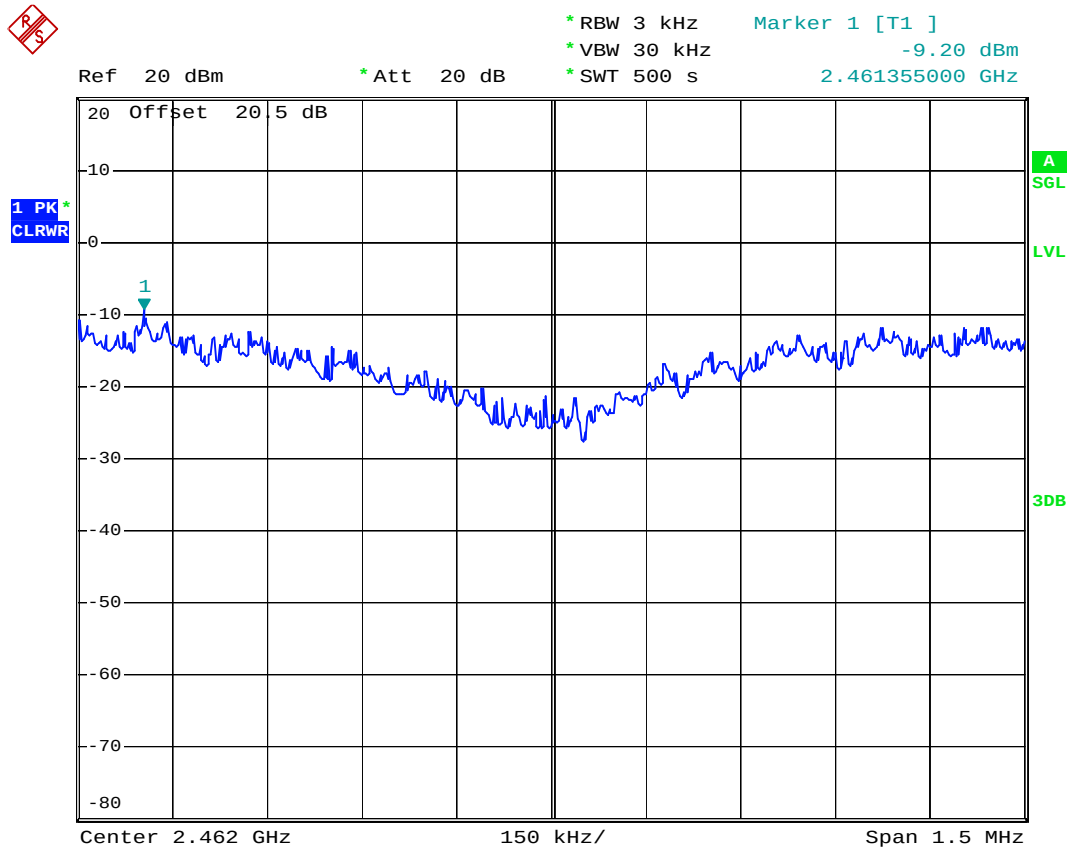
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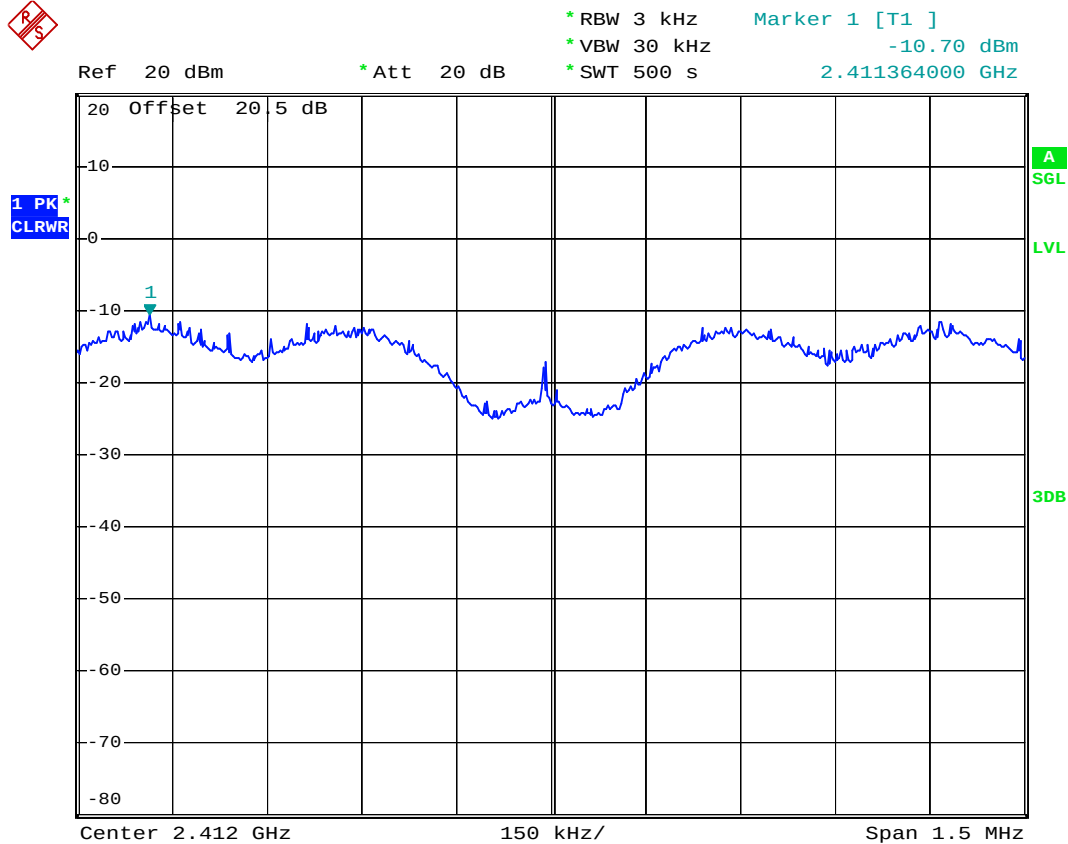
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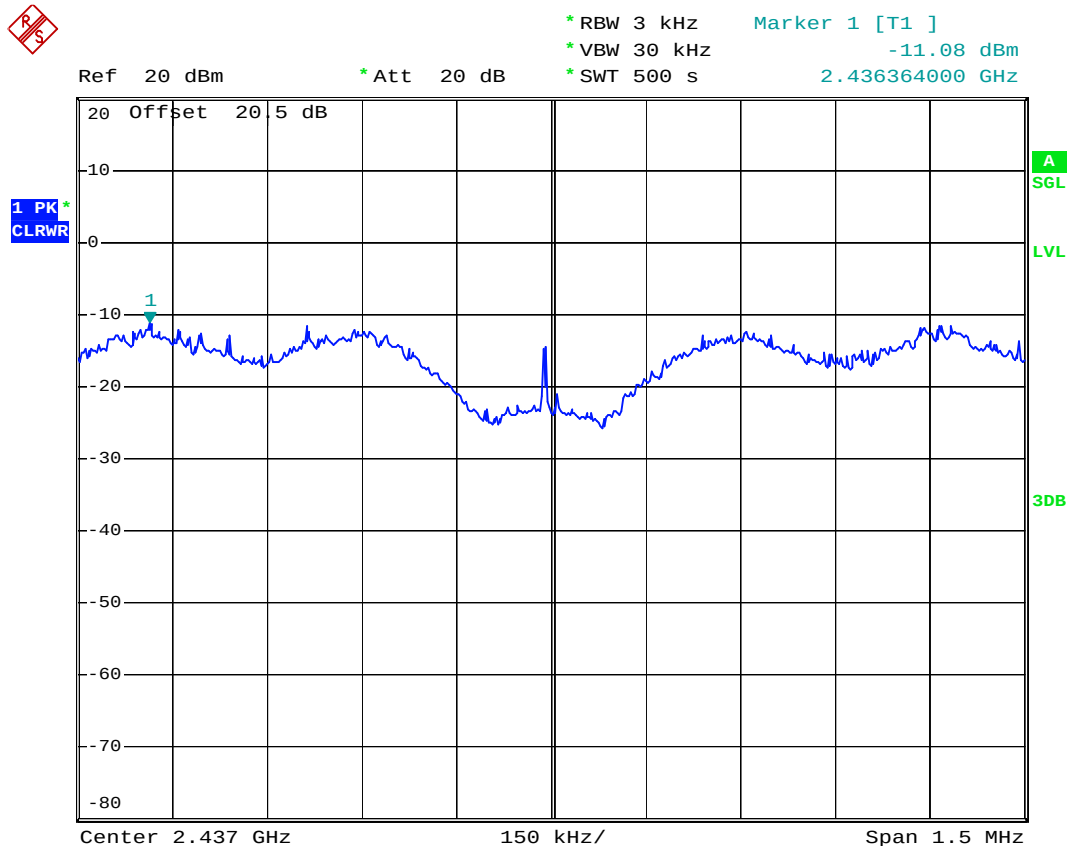
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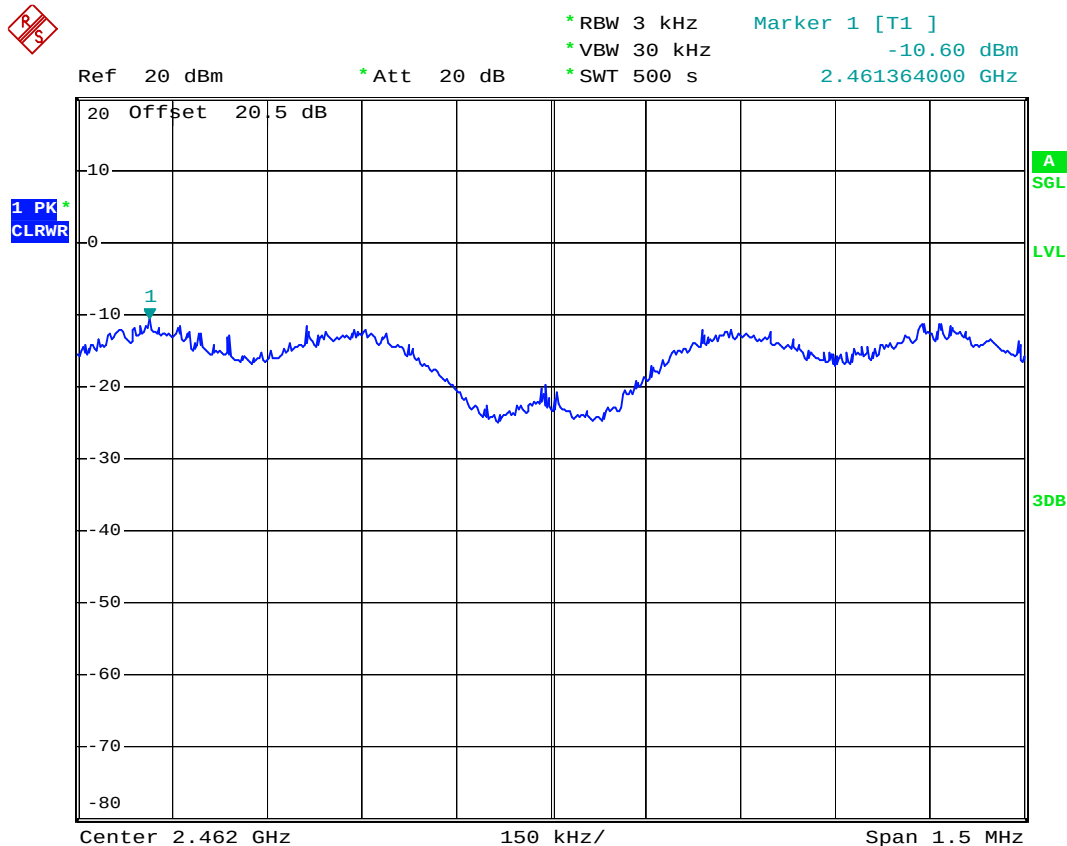
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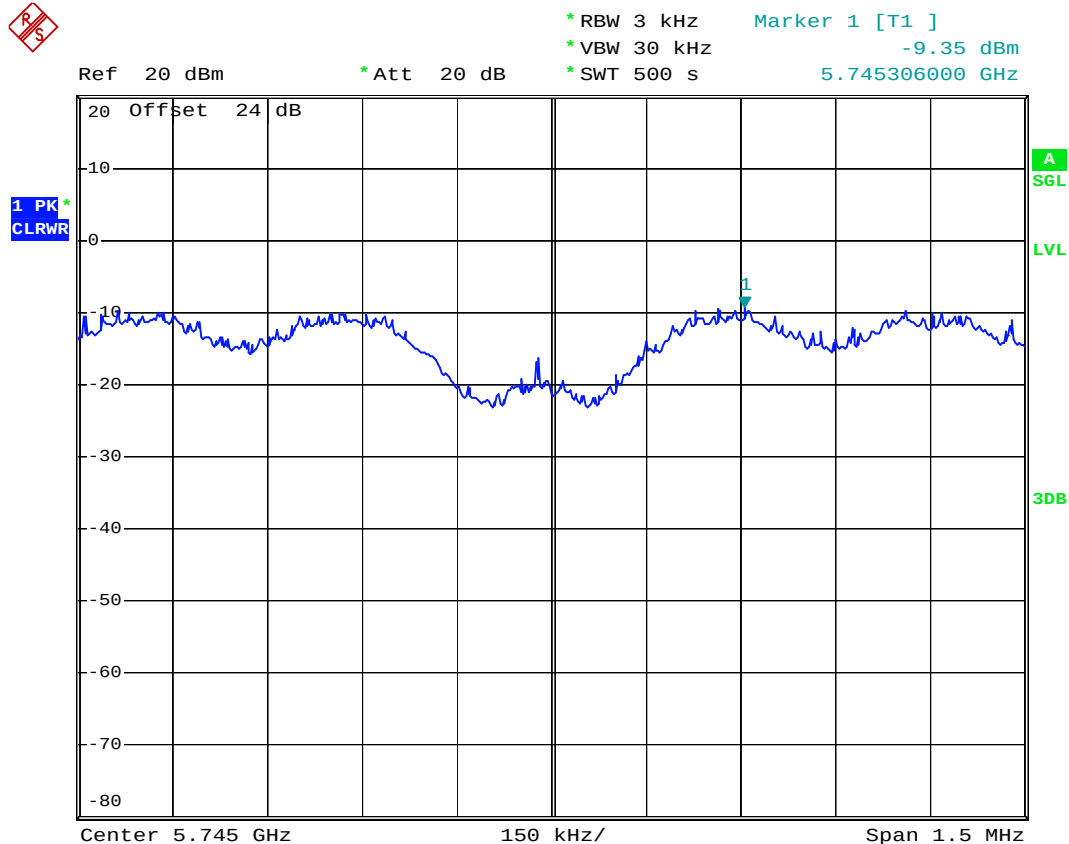
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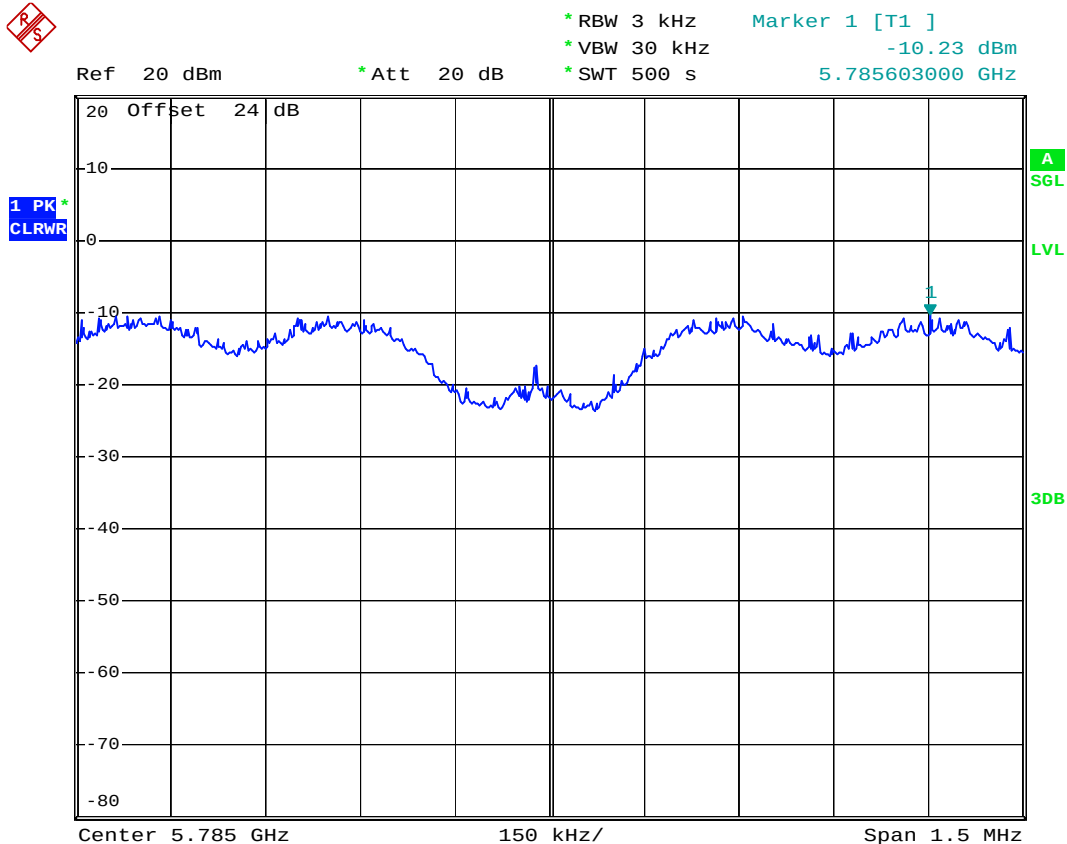
Mode 7



Date: 5.NOV.2007 21:52:32



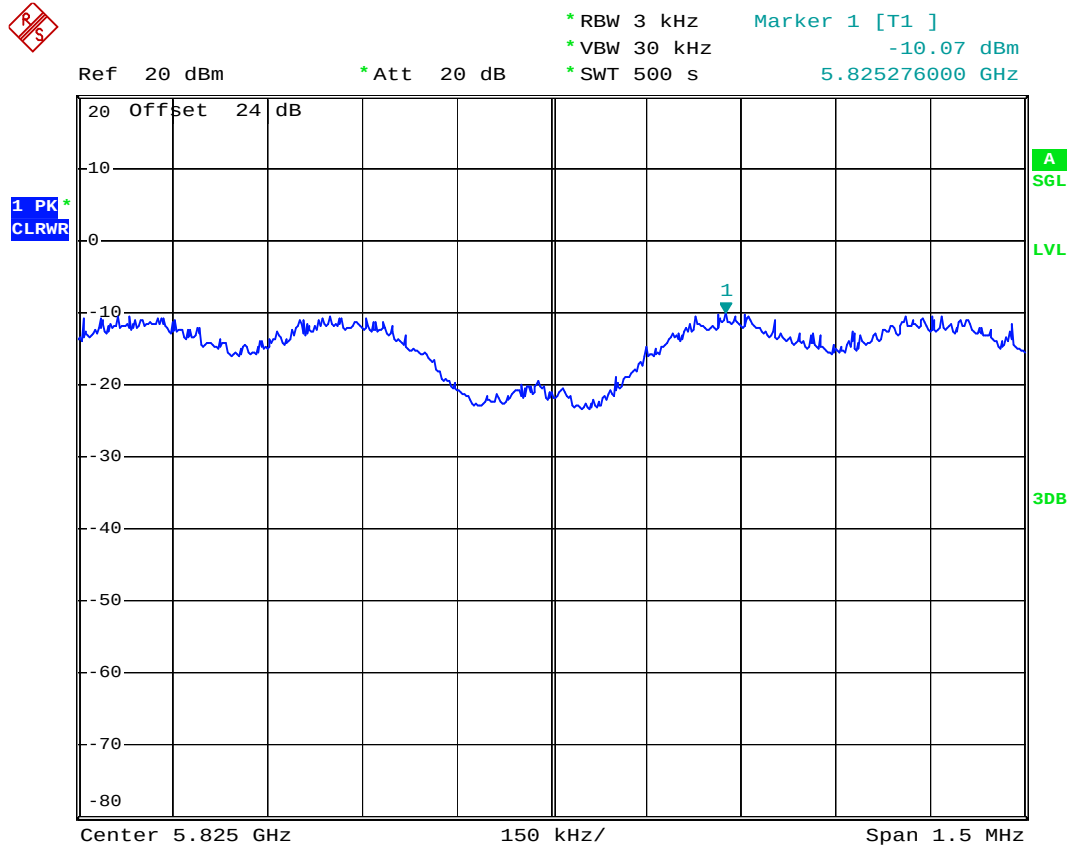
Mode 8



Date: 5.NOV.2007 22:02:18



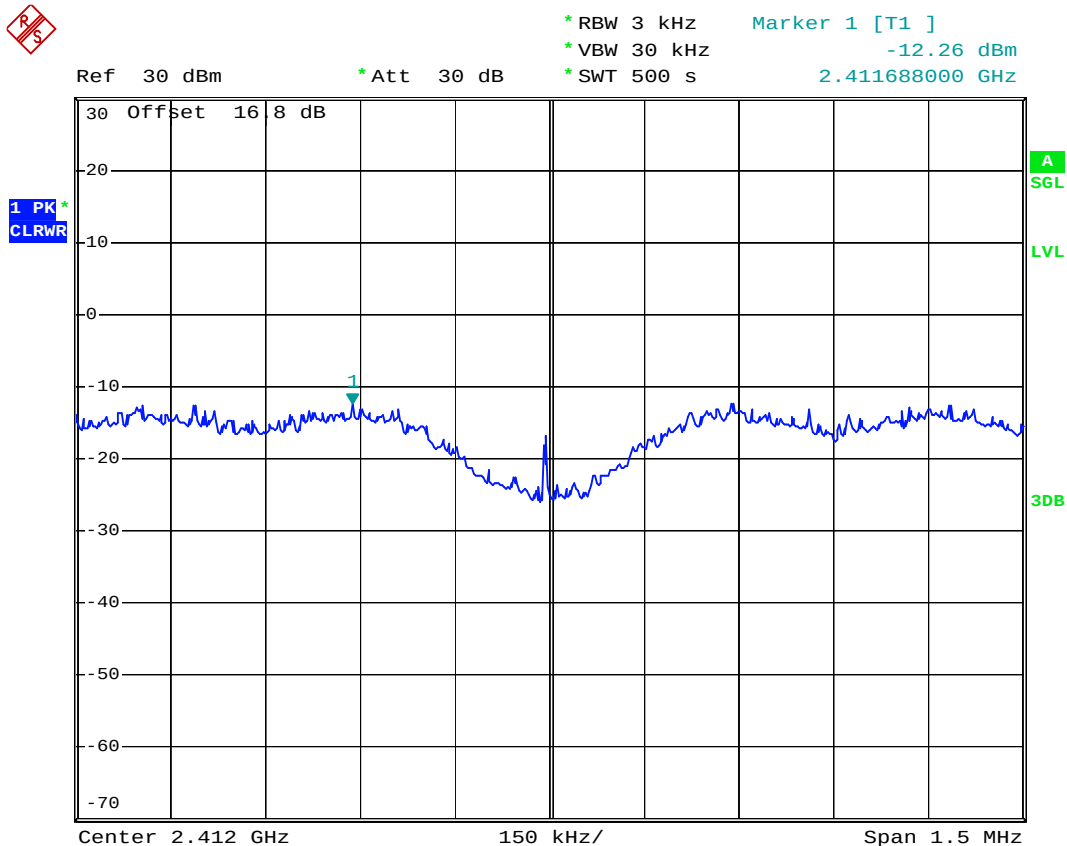
Mode 9



Date: 5.NOV.2007 22:12:51



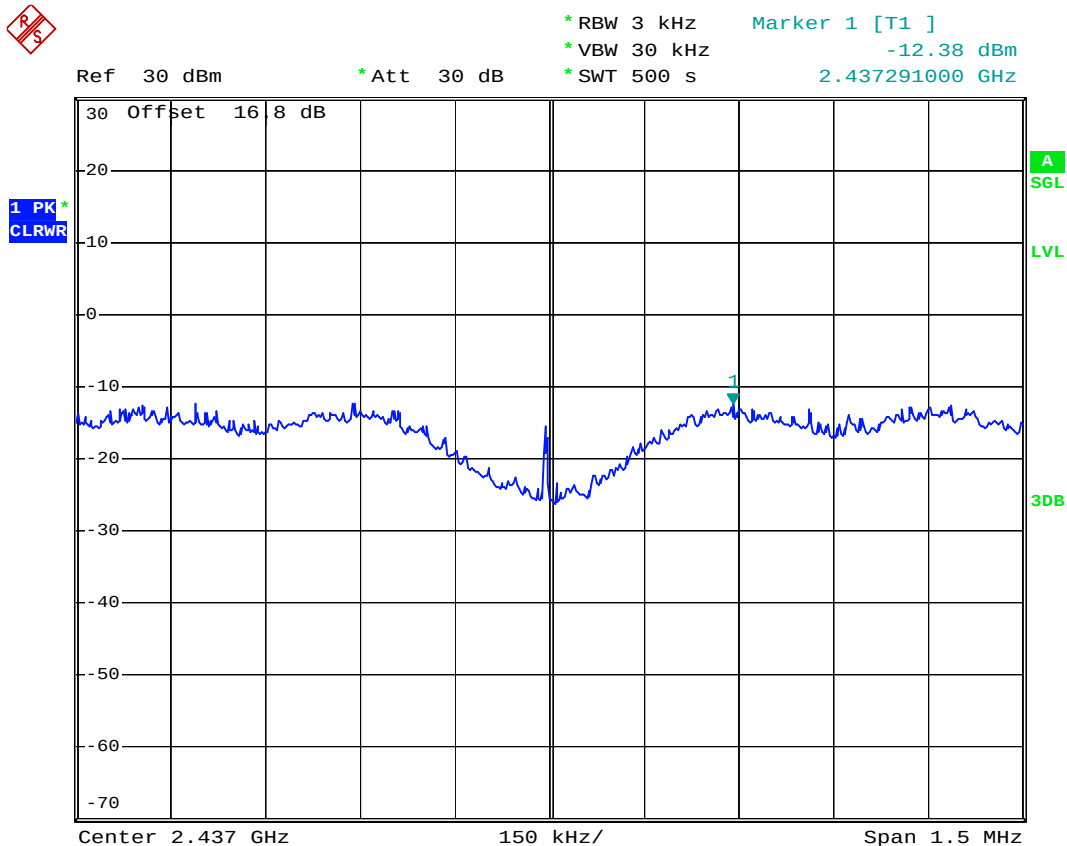
Mode 10



Date: 10.NOV.2007 00:03:45



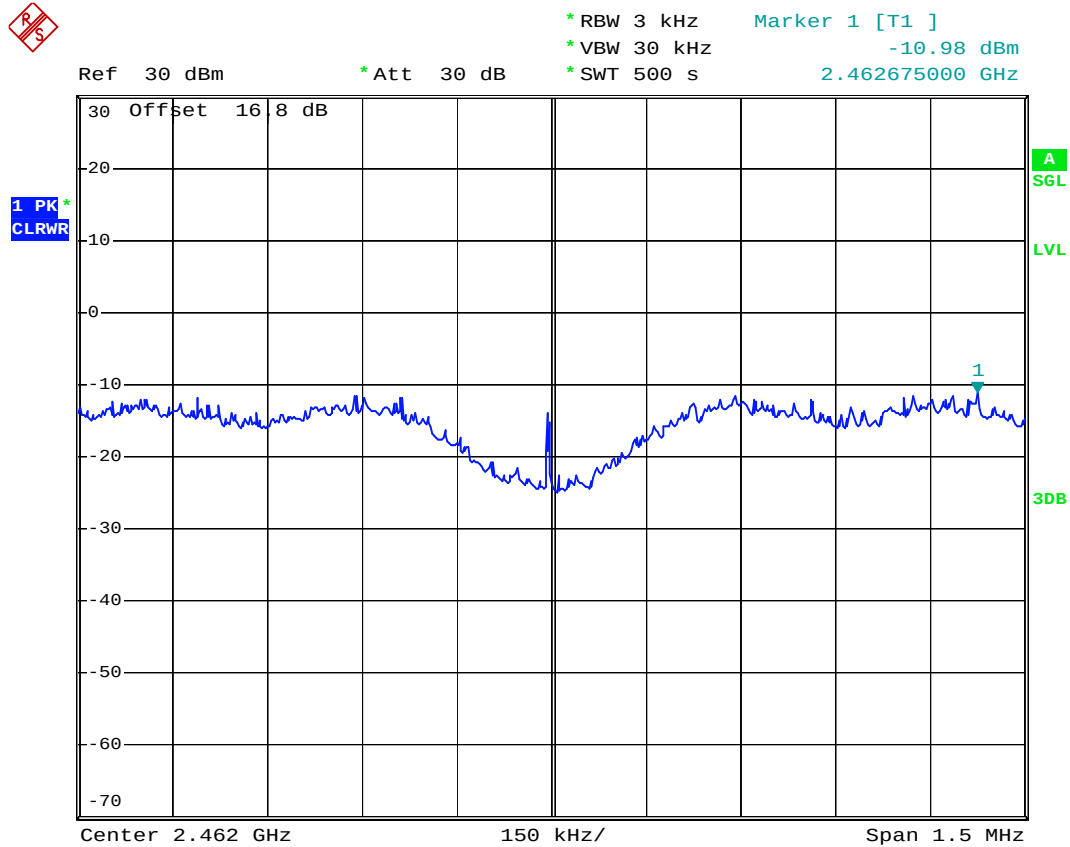
Mode 11



Date: 10.NOV.2007 00:13:22



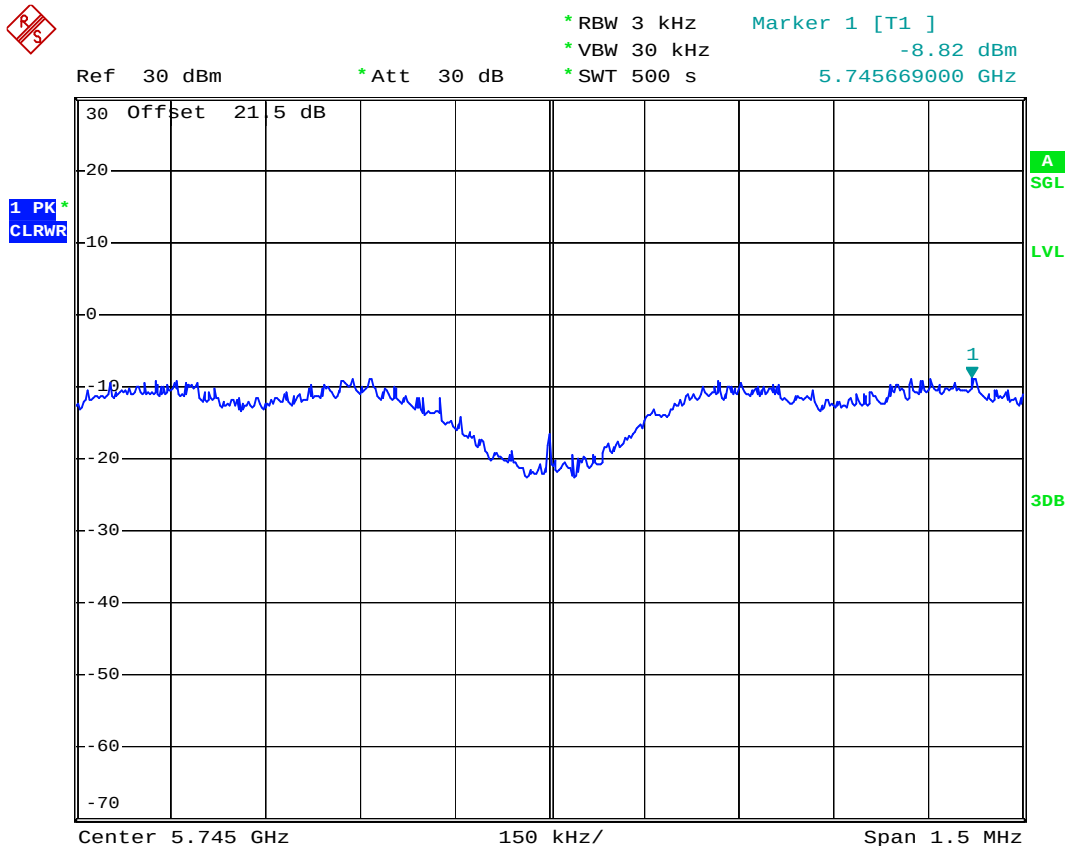
Mode 12



Date: 10.NOV.2007 00:22:34



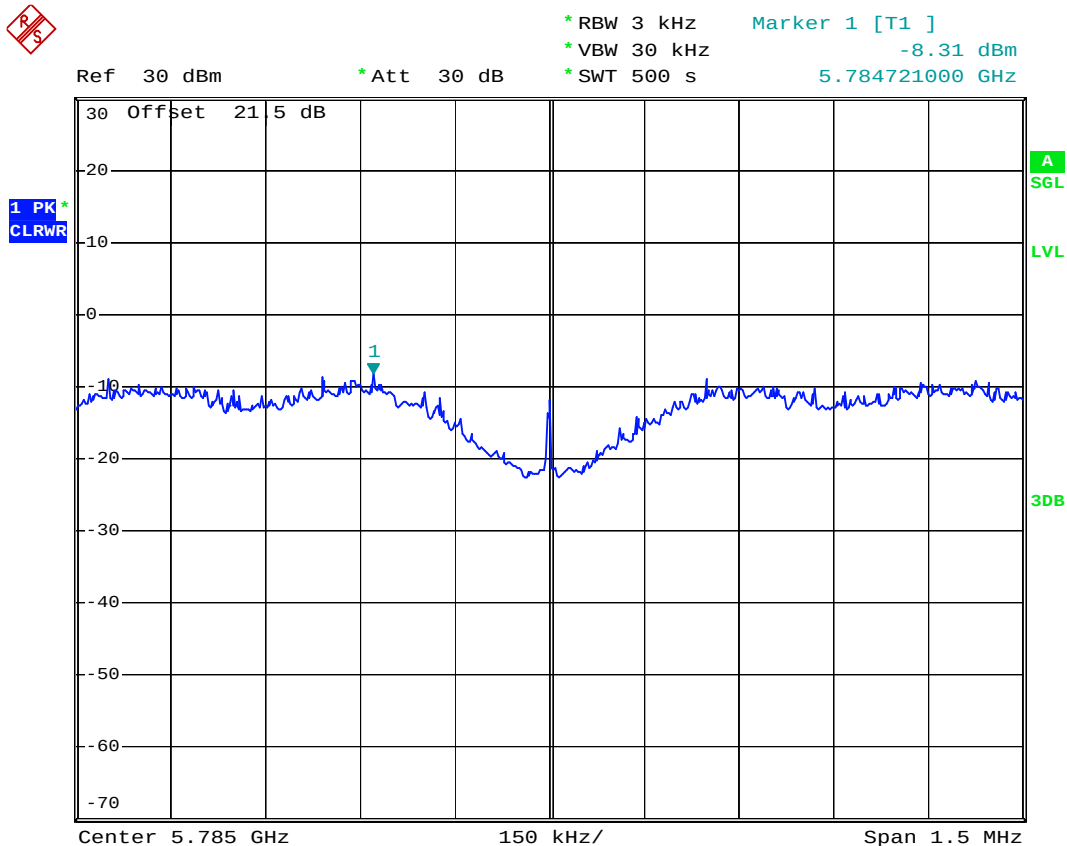
Mode 13



Date: 10.NOV.2007 00:57:56



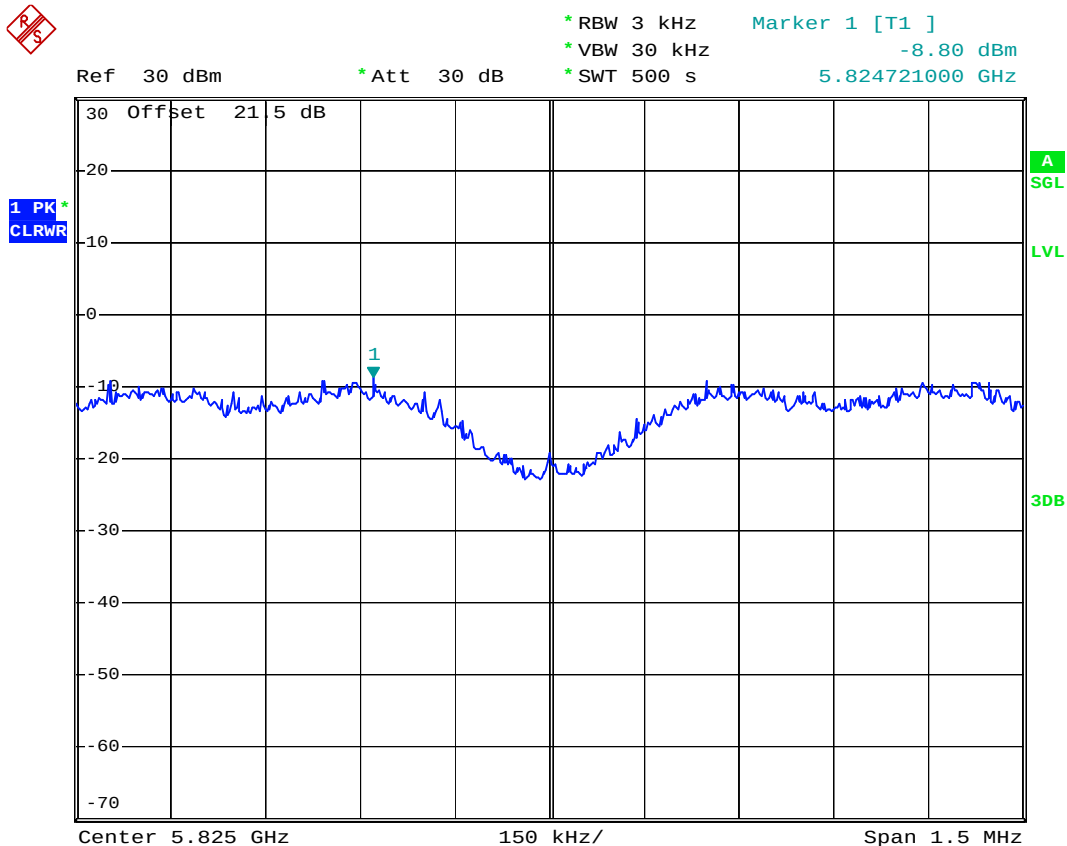
Mode 14



Date: 10.NOV.2007 01:07:16



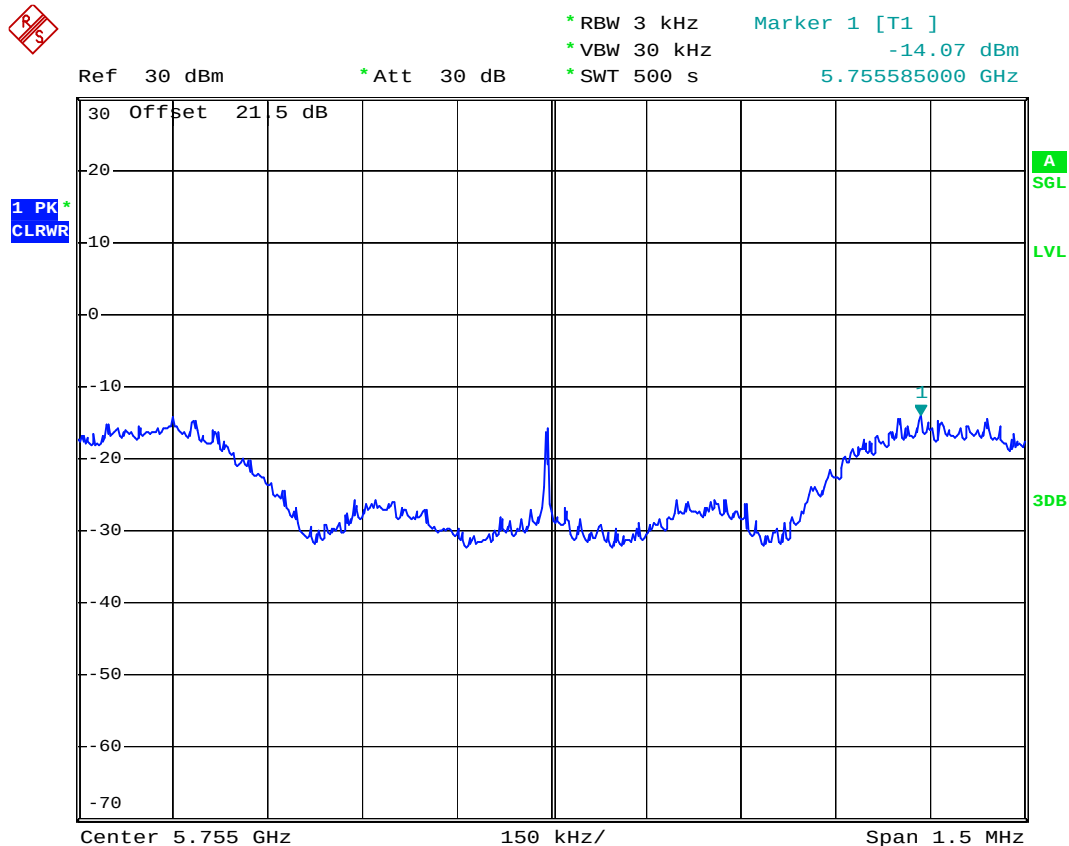
Mode 15



Date: 10.NOV.2007 01:17:37



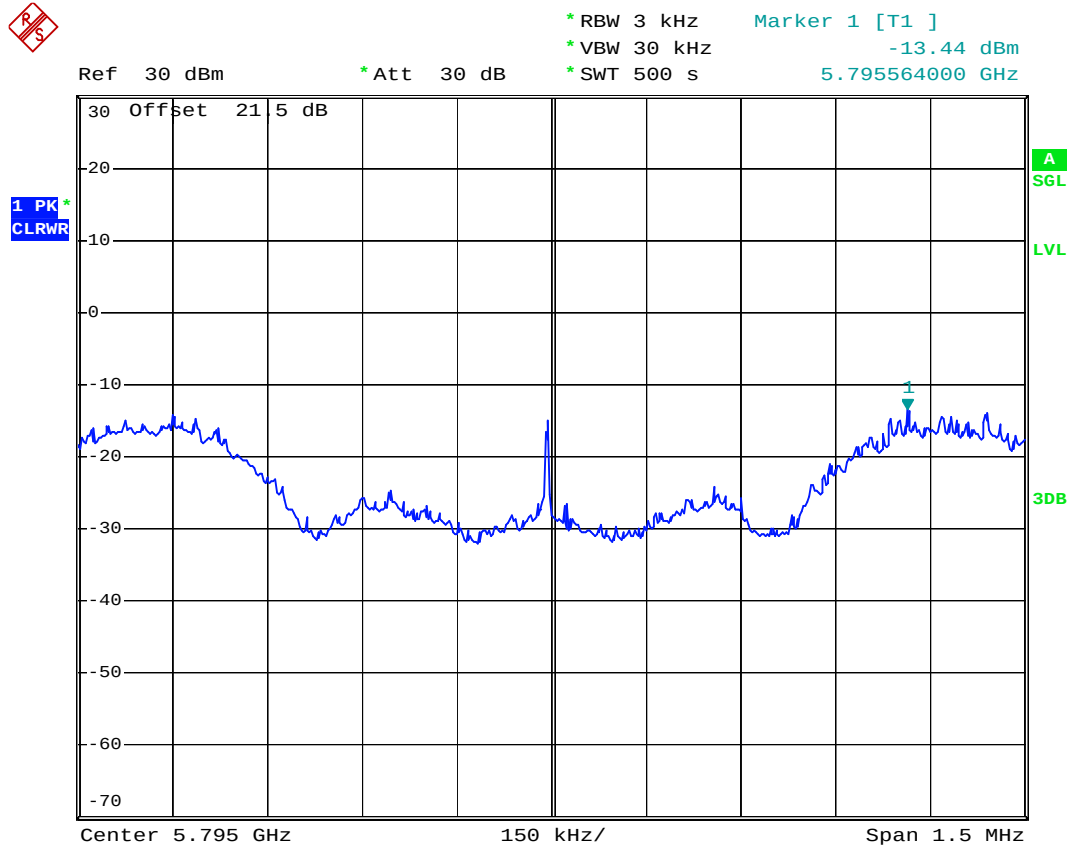
Mode 16



Date: 10.NOV.2007 02:04:12



Mode 17



Date: 10.NOV.2007 02:14:01

5.4 Band Edges Measurement

5.4.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.4.2 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.

5.4.3 Test Result :

- Application Type : WLAN 802.11b/g
 - Temperature : 25~26°C
 - Relative Humidity : 49~51%
 - Test Engineer : Ken
-
- Test Result in WLAN lower band (802.11b/g) : PASS
 - Test Result in WLAN higher band (802.11b/g) : PASS
 - Test Result in WLAN lower band (802.11a Band III) : PASS
 - Test Result in WLAN higher band (802.11a Band III) : PASS
 - Test Result in WLAN lower band (802.11n<g>_BW 20M) : PASS
 - Test Result in WLAN higher band (802.11n<g>_BW 20M) : PASS
 - Test Result in WLAN lower band (802.11n<a>_BW 20M) : PASS
 - Test Result in WLAN higher band (802.11n<a>_BW 20M) : PASS
 - Test Result in WLAN lower band (802.11n<a>_BW 40M) : PASS
 - Test Result in WLAN higher band (802.11n<a>_BW 40M) : PASS



5.4.4 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
2390.000	51.57	-22.43	74.00	53.54	28.07	3.74	33.78	100	0	Peak
2390.000	38.29	-15.71	54.00	40.26	28.07	3.74	33.78	100	38	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
2390.000	47.81	-26.19	74.00	49.78	28.07	3.74	33.78	100	0	Peak
2390.000	34.50	-19.50	54.00	36.47	28.07	3.74	33.78	100	97	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
2483.500	53.38	-20.62	74.00	55.08	28.26	3.84	33.80	100	0	Peak
2483.500	38.90	-15.10	54.00	40.60	28.26	3.84	33.80	100	32	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
2483.500	49.44	-24.56	74.00	51.14	28.26	3.84	33.80	100	0	Peak
2483.500	35.75	-18.25	54.00	37.45	28.26	3.84	33.80	100	105	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
2390.000	59.77	-14.23	74.00	61.74	28.07	3.74	33.78	100	0	Peak
2390.000	35.01	-18.99	54.00	36.98	28.07	3.74	33.78	100	36	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
2390.000	55.52	-18.48	74.00	57.49	28.07	3.74	33.78	100	0	Peak
2390.000	32.51	-21.49	54.00	34.48	28.07	3.74	33.78	100	96	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
2483.500	62.13	-11.87	74.00	63.83	28.26	3.84	33.80	100	0	Peak
2483.500	35.81	-18.19	54.00	37.51	28.26	3.84	33.80	142	35	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
2483.500	58.88	-15.12	74.00	60.58	28.26	3.84	33.80	100	0	Peak
2483.500	34.55	-19.45	54.00	36.25	28.26	3.84	33.80	100	107	Average

**➤WLAN 802.11a**

CH0149 (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
5348.000	52.43	-21.57	74.00	46.96	33.62	6.00	34.15	100	0	Peak
5348.000	39.31	-14.69	54.00	33.84	33.62	6.00	34.15	100	340	Average

CH0149 (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
5582.000	52.68	-21.32	74.00	46.89	33.85	6.01	34.08	100	0	Peak
5582.000	40.17	-13.83	54.00	34.38	33.85	6.01	34.08	120	177	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
6958.000	52.68	-21.32	74.00	43.76	35.10	6.34	32.52	100	0	Peak
6958.000	40.50	-13.50	54.00	31.58	35.10	6.34	32.52	100	9	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
6982.000	53.23	-20.77	74.00	44.21	35.17	6.35	32.50	100	0	Peak
6982.000	40.65	-13.35	54.00	31.63	35.17	6.35	32.50	127	8	Average

**➤ WLAN 802.11n(g)_BW 20M****CH01 (Horizontal)**

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.000	55.34	-18.66	74.00	57.31	28.07	3.74	33.78	100	0	Peak
2390.000	37.50	-16.50	54.00	39.47	28.07	3.74	33.78	100	99	Average

CH01 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.000	56.43	-17.57	74.00	58.40	28.07	3.74	33.78	100	0	Peak
2390.000	38.44	-15.66	54.00	40.41	28.07	3.74	33.78	100	101	Average

CH11 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.500	60.47	-13.53	74.00	62.17	28.26	3.84	33.80	100	0	Peak
2483.500	41.73	-12.27	54.00	43.43	28.26	3.84	33.80	103	203	Average

CH11 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.500	63.11	-10.89	74.00	64.81	28.26	3.84	33.80	100	0	Peak
2483.500	42.58	-11.42	54.00	44.28	28.26	3.84	33.80	100	103	Average



➤ WLAN 802.11n(a)_BW 20M

CH0149 (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
5670.000	55.52	-18.48	74.00	49.66	33.90	6.02	34.07	100	0	Peak
5670.000	42.24	-11.76	54.00	36.38	33.90	6.02	34.07	100	344	Average

CH0149 (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
5588.000	52.15	-21.85	74.00	46.36	33.85	6.01	34.08	100	0	Peak
5588.000	39.84	-14.16	54.00	34.05	33.85	6.01	34.08	100	324	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
6910.000	52.45	-21.55	74.00	43.66	35.03	6.33	32.56	100	0	Peak
6910.000	39.48	-14.52	54.00	30.69	35.03	6.33	32.56	100	305	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
6894.000	53.03	-20.97	74.00	44.29	34.99	6.33	32.58	100	0	Peak
6894.000	40.12	-13.88	54.00	31.38	34.99	6.33	32.58	102	4	Average

**➤ WLAN 802.11n(g)_BW 40M****CH0151 (Horizontal)**

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
		(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
5558.000	52.07	-21.93	74.00	46.31	33.83	6.01	34.09	100	0	Peak
5558.000	38.01	-15.99	54.00	32.25	33.83	6.01	34.09	100	304	Average

CH0151 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
		(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
5622.000	51.99	-22.10	74.00	46.18	33.87	6.02	34.08	100	0	Peak
5622.000	38.32	-15.68	54.00	32.51	33.87	6.02	34.08	100	327	Average

CH159 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
		(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
6964.000	53.88	-20.12	74.00	44.93	35.13	6.34	32.52	100	0	Peak
6964.000	40.59	-13.41	54.00	31.64	35.13	6.34	32.52	100	303	Average

CH159 (Vertical)

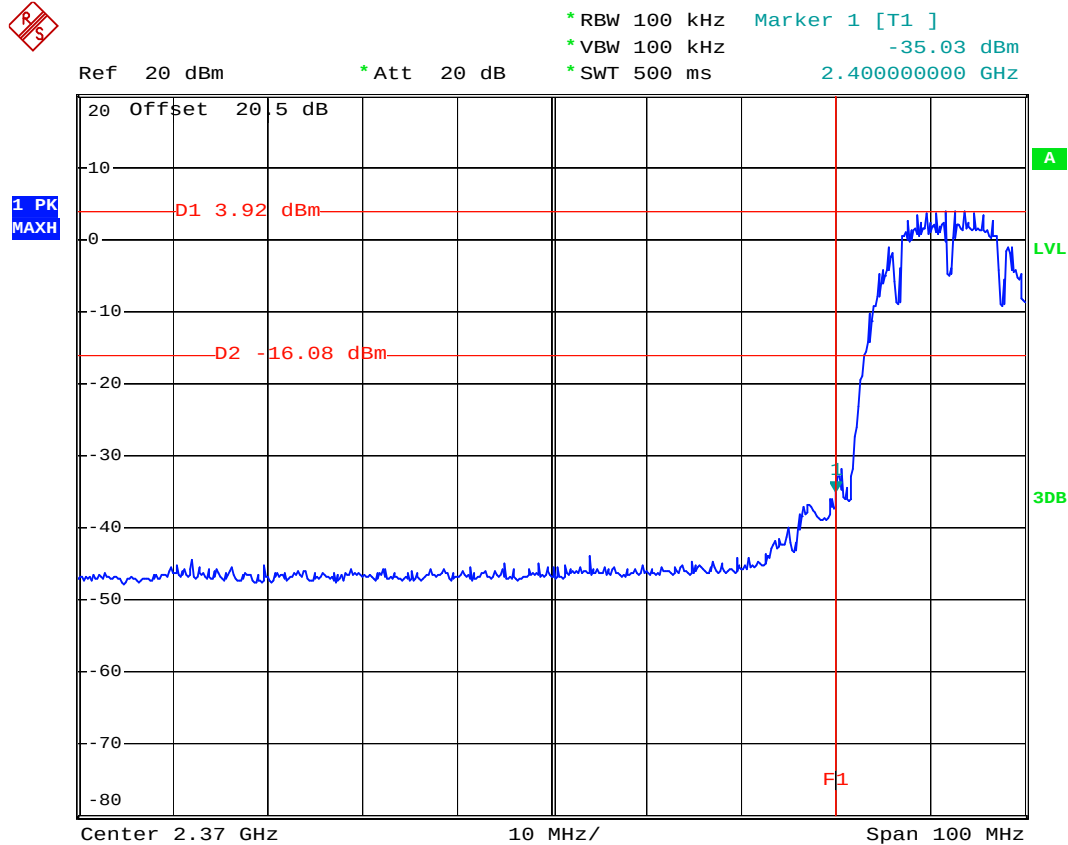
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
		(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
6686.000	53.32	-20.68	74.00	45.27	34.54	6.26	32.75	100	0	Peak
6686.000	39.41	-14.59	54.00	31.36	34.54	6.26	32.75	100	327	Average



5.4.5 Band Edge

WLAN 802.11b

CH01

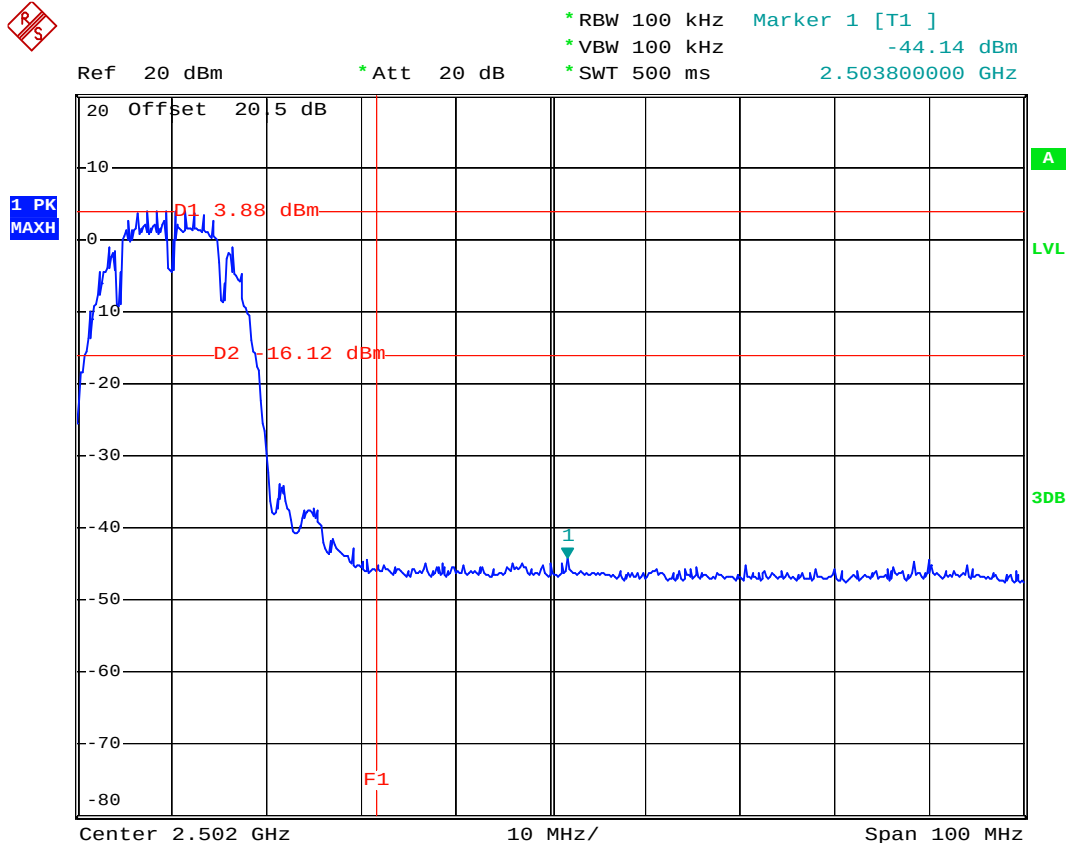


Date: 5.NOV.2007 20:12:07



WLAN 802.11b

CH11

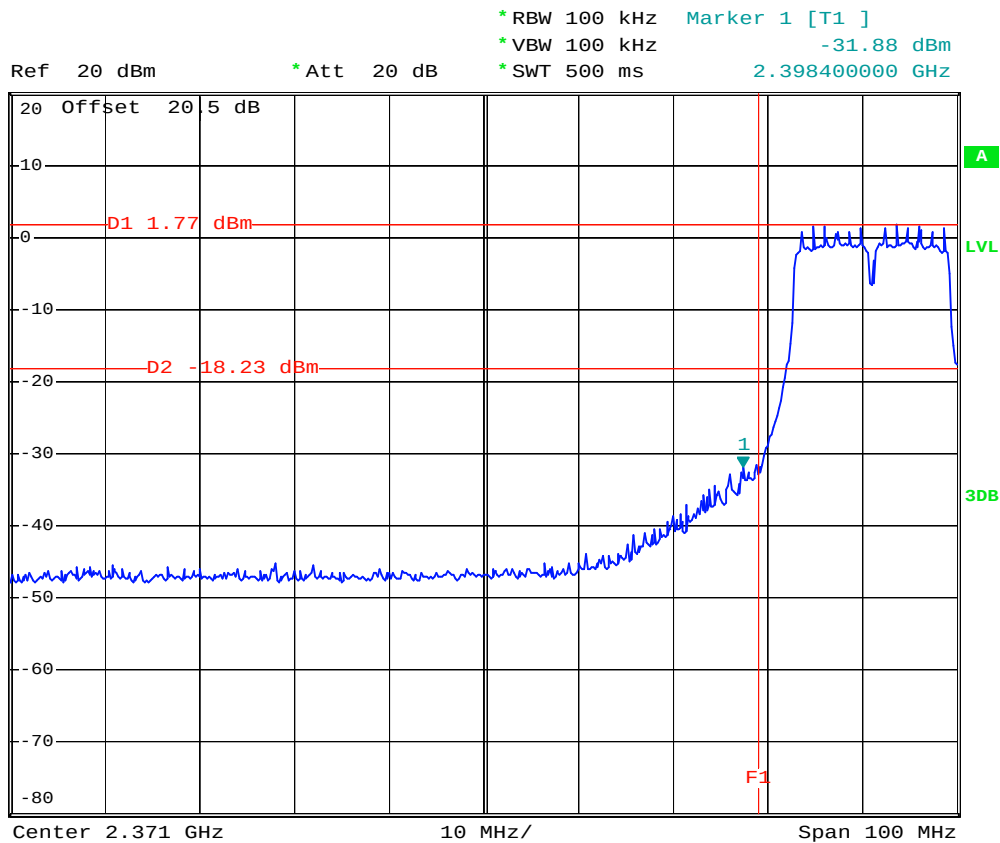


Date: 5.NOV.2007 22:24:56



WLAN 802.11g

CH01

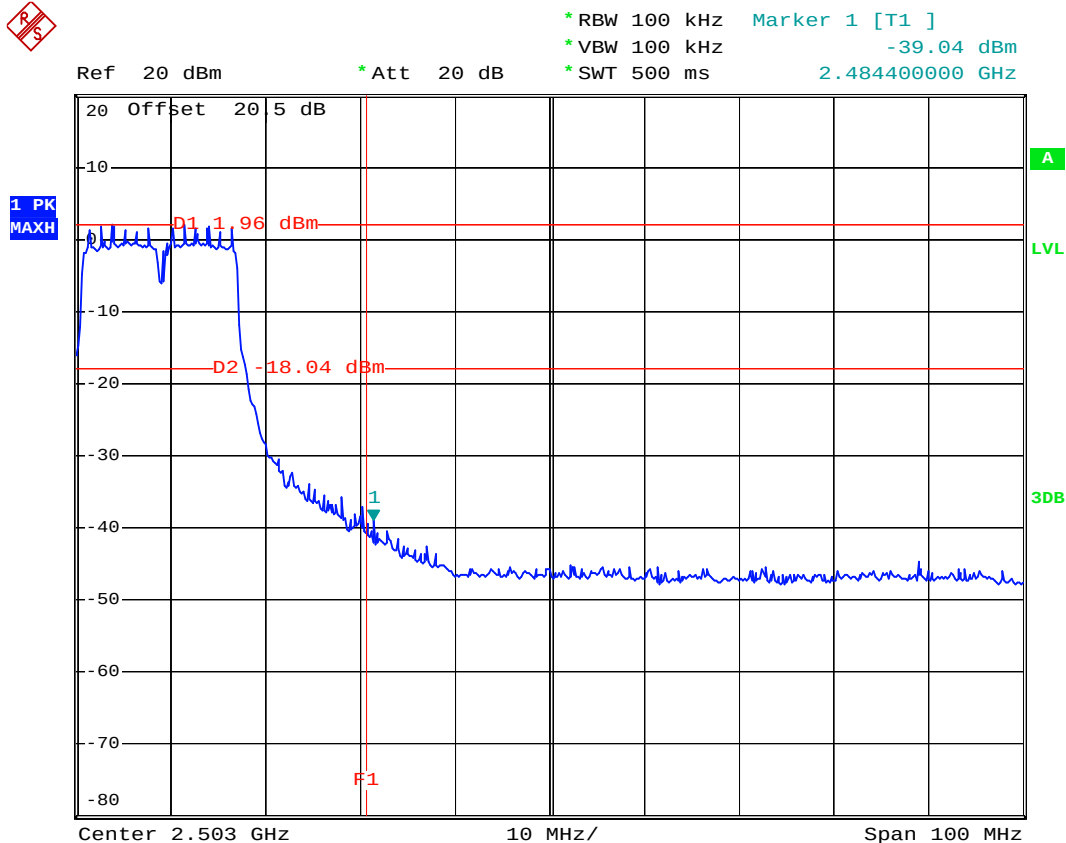


Date: 5.NOV.2007 20:17:42



WLAN 802.11g

CH11



Date: 5.NOV.2007 20:19:40



WLAN 802.11a

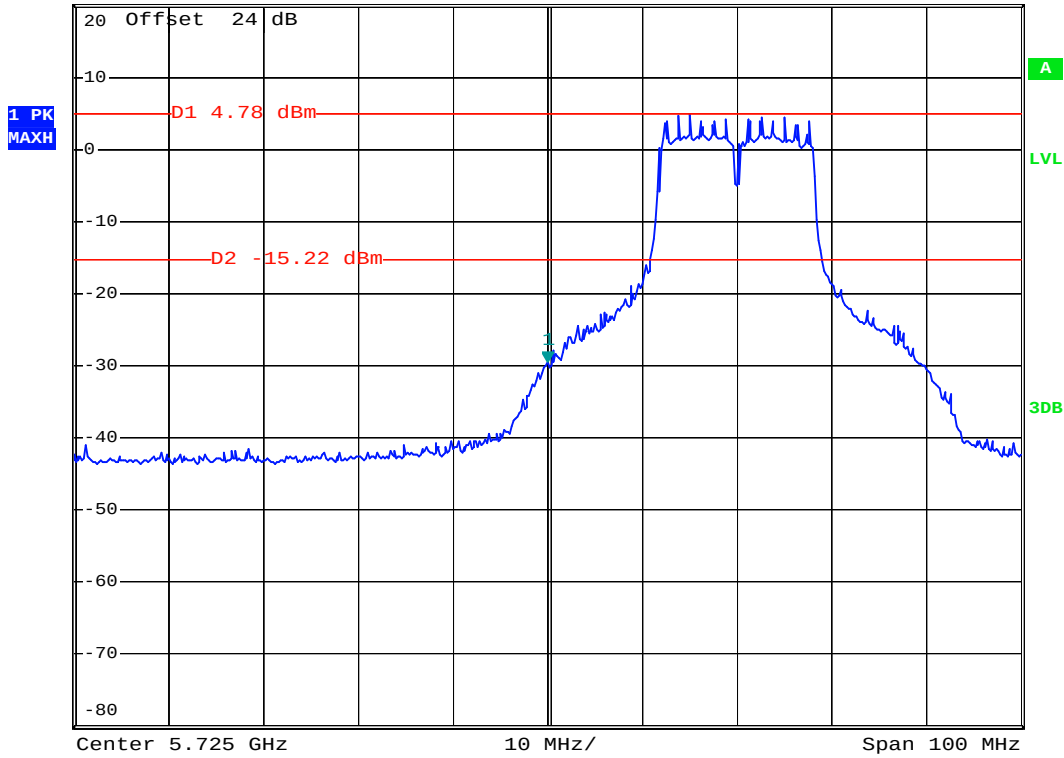
CH0149



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -29.55 dBm
* SWT 500 ms 5.725000000 GHz

Ref 20 dBm

* Att 20 dB



Date: 5.NOV.2007 22:58:53



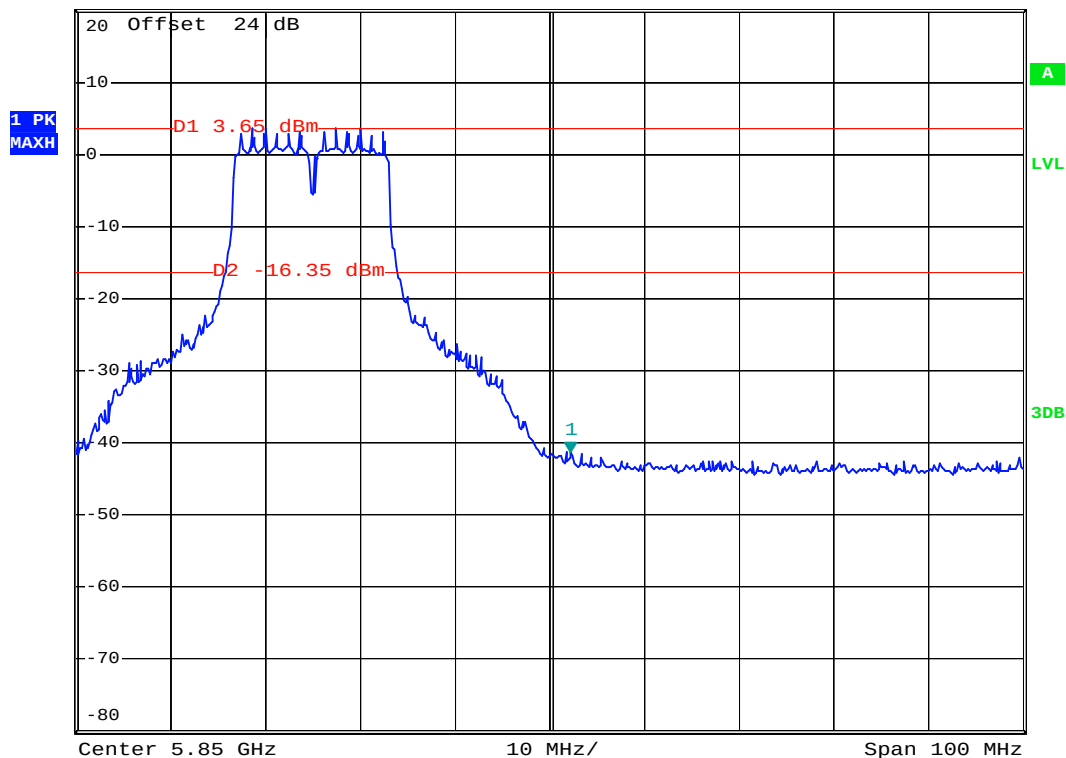
CH165



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -41.24 dBm
* SWT 500 ms 5.852200000 GHz

Ref 20 dBm

* Att 20 dB



Date: 5.NOV.2007 22:55:16

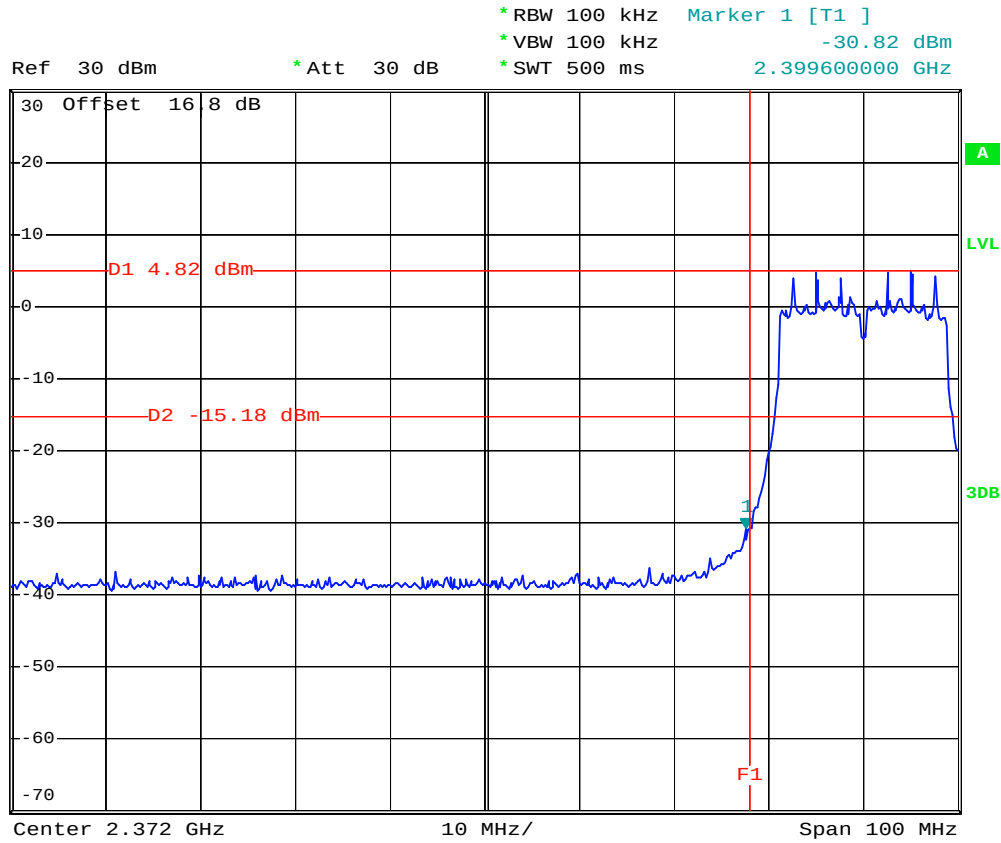


WLAN 802.11n(g)_BW 20M

CH01



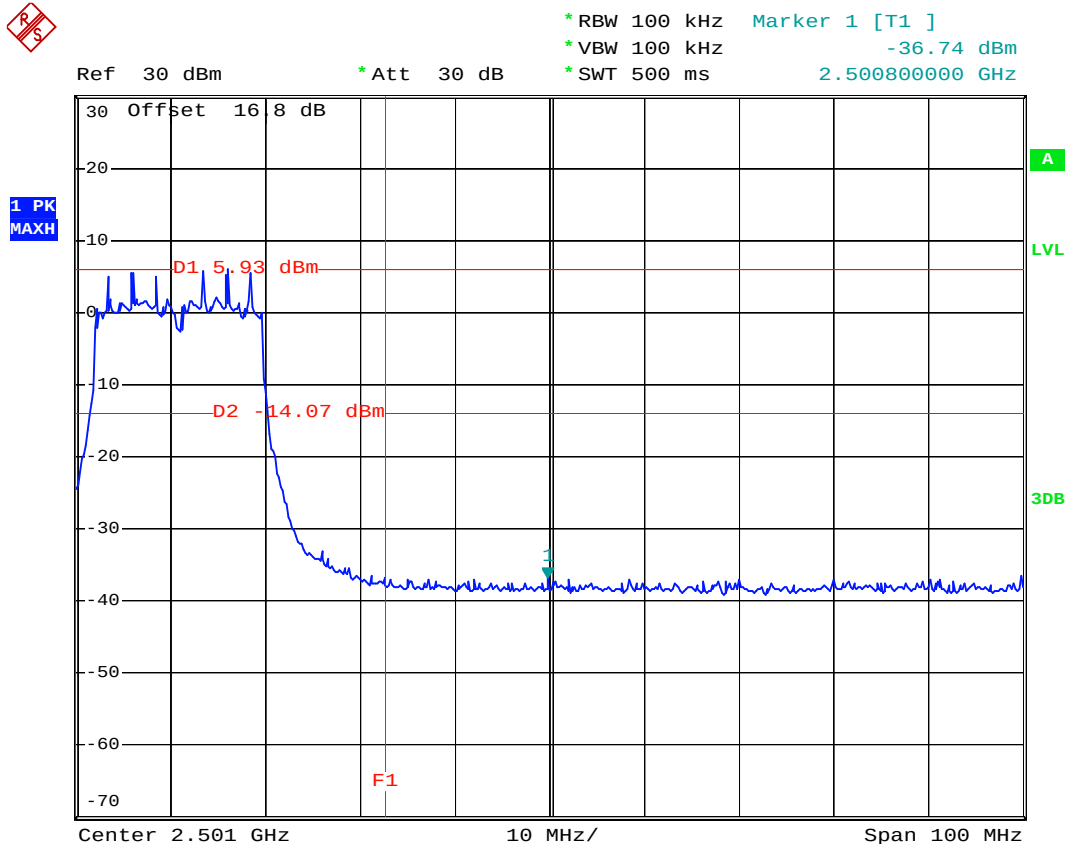
1 PK
MAXH



Date: 10.NOV.2007 00:31:17



CH11



Date: 10.NOV.2007 00:34:38



WLAN 802.11n(a)_BW 20M

CH149

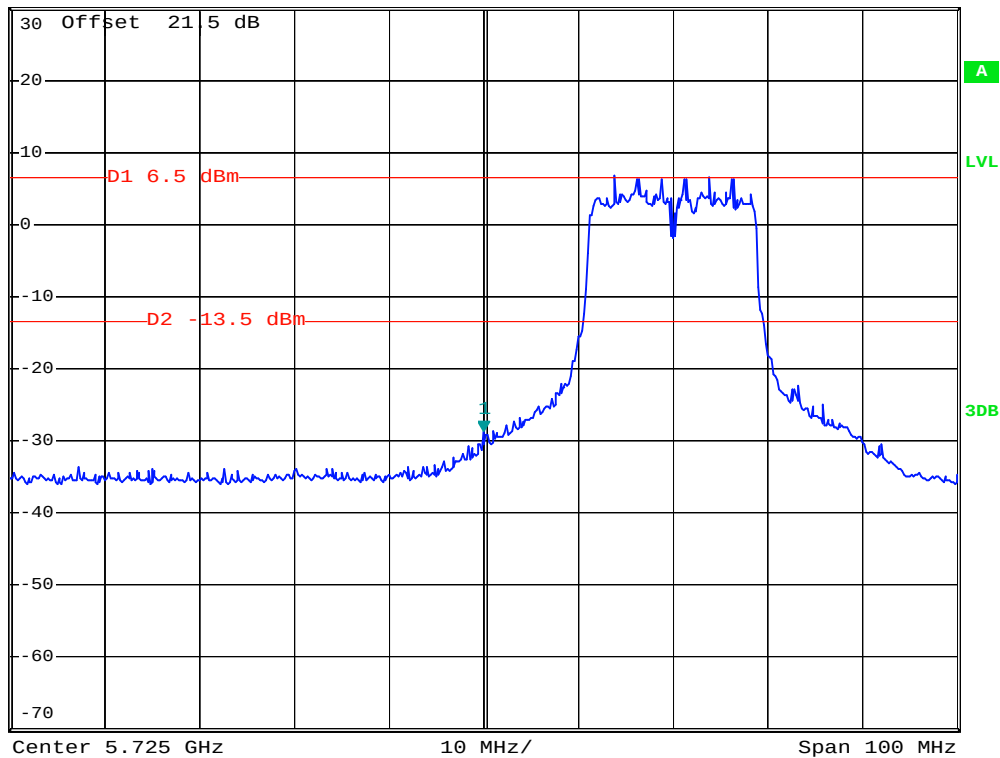


* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -28.72 dBm
* SWT 500 ms 5.725000000 GHz

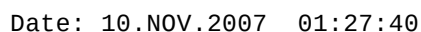
Ref 30 dBm

* Att 30 dB

1 PK
MAXH



Date: 10.NOV.2007 01:31:07





WLAN 802.11n(a)_BW 40M

CH151

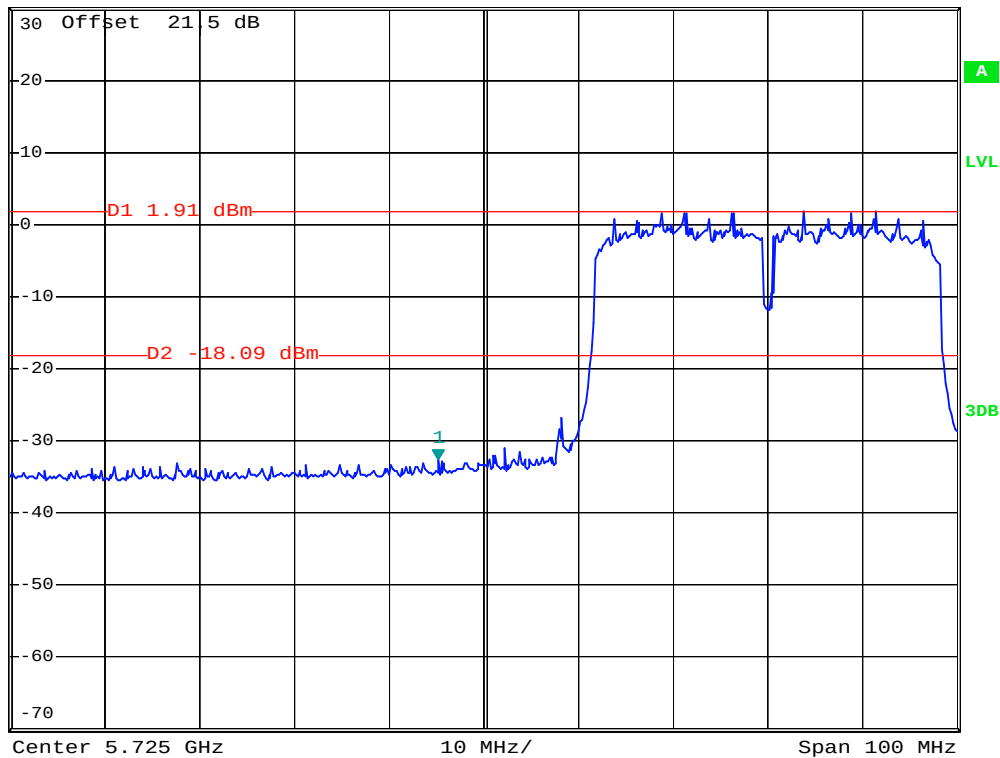


* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -32.73 dBm
* SWT 500 ms 5.720200000 GHz

Ref 30 dBm

* Att 30 dB

1 PK
MAXH



Date: 10.NOV.2007 02:39:17



CH159

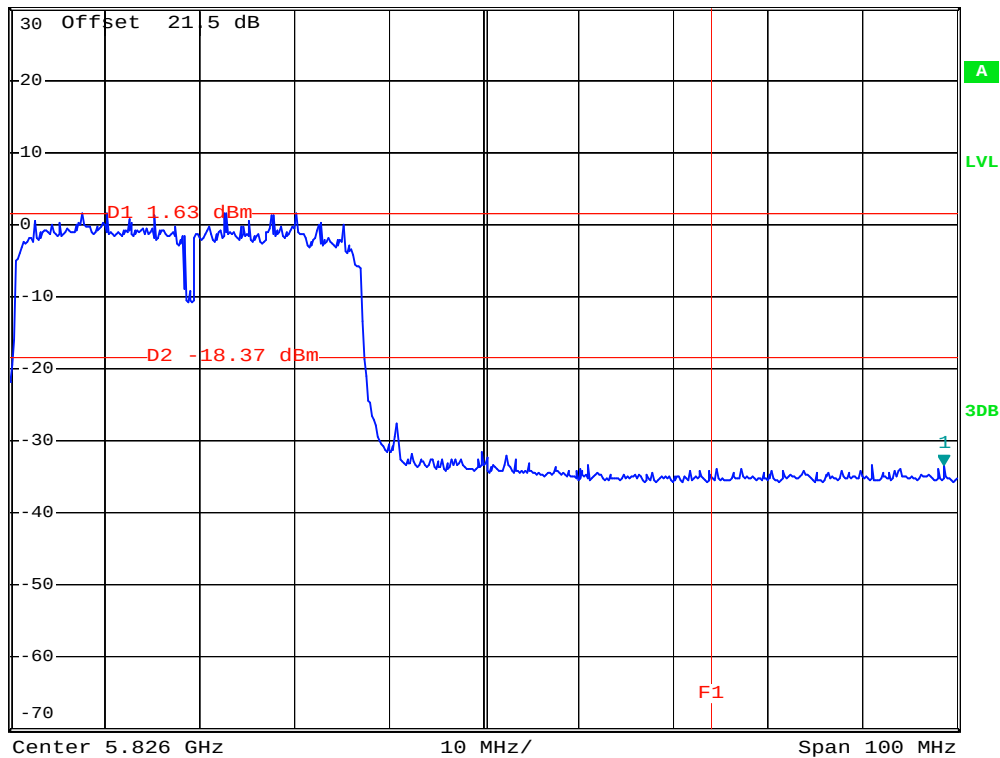


* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -33.43 dBm
* SWT 500 ms 5.874600000 GHz

Ref 30 dBm

* Att 30 dB

1 PK
MAXH



Date: 10.NOV.2007 02:45:14

5.5 Peak Output Power Measurement

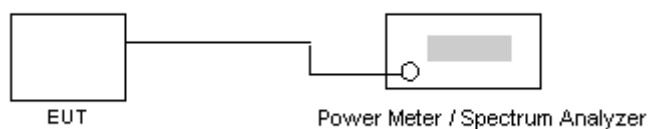
5.5.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.5.2 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. The cable loss has been offset before testing.

5.5.3 Test Setup Layout :



**5.5.4 Test Result :**

- Application Type : WLAN 802.11b/g
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Enginner : Ken

WLAN 802.11b

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	14.06	1W/30 dBm
06	2437	14.33	1W/30 dBm
11	2462	14.66	1W/30 dBm

WLAN 802.11g

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	20.50	1W/30 dBm
06	2437	20.67	1W/30 dBm
11	2462	21.66	1W/30 dBm

WLAN 802.11a

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
149	5745	21.09	1W/30 dBm
157	5785	20.35	1W/30 dBm
165	5825	20.35	1W/30 dBm

WLAN 802.11n(g) BW 20M

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	22.96	1W/30 dBm
06	2437	23.06	1W/30 dBm
11	2462	23.94	1W/30 dBm

**WLAN 802.11n(a) BW 20M**

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
149	5745	24.83	1W/30 dBm
157	5785	24.48	1W/30 dBm
165	5825	23.89	1W/30 dBm

WLAN 802.11n(a) BW 40M

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
151	5755	21.89	1W/30 dBm
159	5795	21.68	1W/30 dBm

5.6 Conducted Emission

5.6.1 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
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5.6.2 Test Procedures :

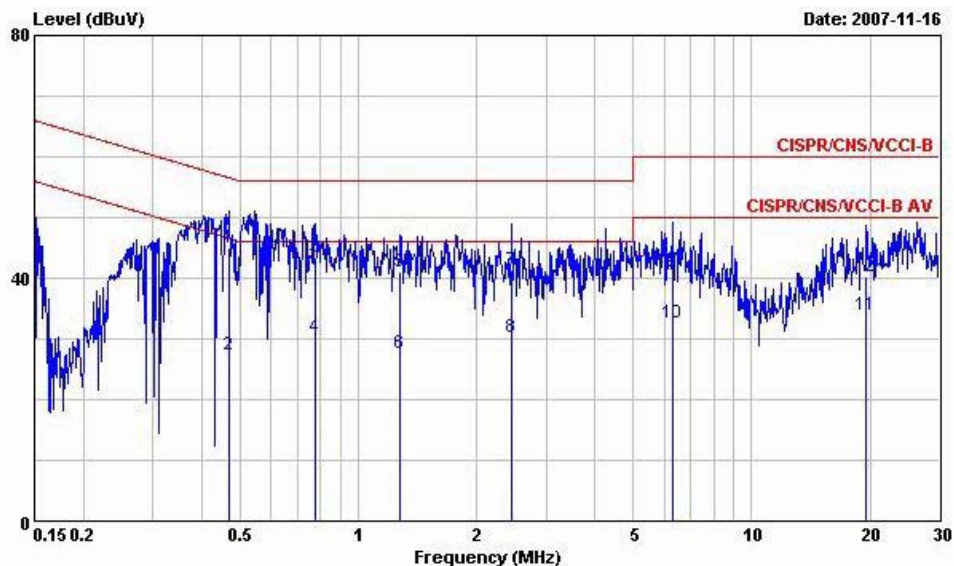
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power port of a line impedance stabilization network (LISN).
- All the support units are connected to the other LISN.
- The LISN 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.



5.6.3 Test Data

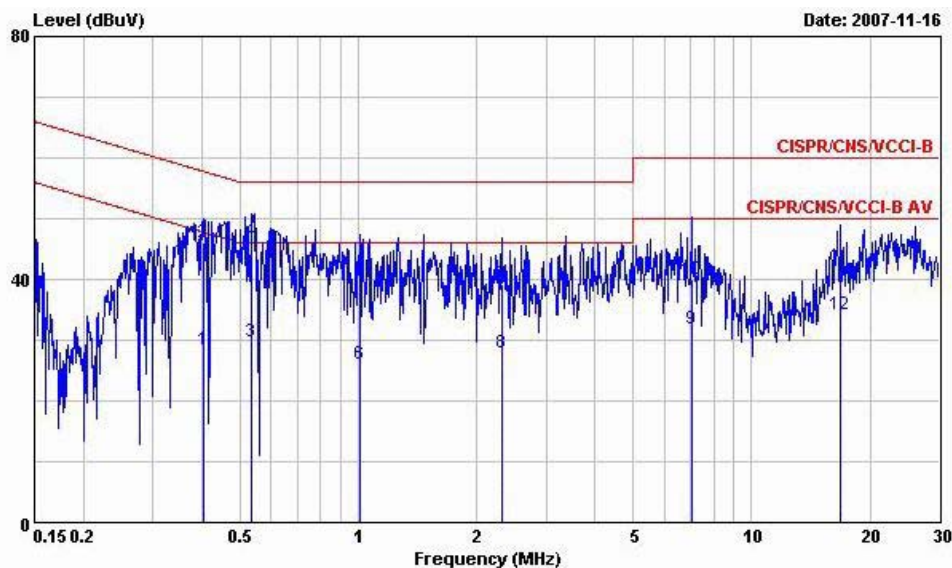
- Temperature : 25~26°C
- Relative Humidity : 49~51%
- Test Enginner : Ken
- Test Mode : Mode 1

■ 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
 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	0.4686110	45.06	-11.48	56.54	44.28	0.10	0.68	QP
2	0.4686110	27.40	-19.14	46.54	26.62	0.10	0.68	Average
3	0.7751940	43.30	-12.70	56.00	42.68	0.10	0.52	QP
4	0.7751940	30.23	-15.77	46.00	29.61	0.10	0.52	Average
5	1.280	41.04	-14.96	56.00	40.50	0.10	0.44	QP
6	1.280	27.56	-18.44	46.00	27.02	0.10	0.44	Average
7	2.460	41.28	-14.72	56.00	40.78	0.10	0.40	QP
8	2.460	30.33	-15.67	46.00	29.83	0.10	0.40	Average
9	6.290	41.15	-18.85	60.00	40.73	0.15	0.27	QP
10	6.290	32.76	-17.24	50.00	32.34	0.15	0.27	Average
11	19.530	33.87	-16.13	50.00	33.59	0.23	0.05	Average
12	19.530	40.17	-19.83	60.00	39.89	0.23	0.05	QP



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

Freq	Level	Over	Limit	Read	LISN	Cable	Remark
		Limit	Line	Level	Factor	Loss	
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 @0.4040020	28.40	-19.37	47.77	27.57	0.10	0.73	Average
2 @0.4040020	46.07	-11.70	57.77	45.24	0.10	0.73	QP
3 @0.5349810	29.63	-16.37	46.00	28.89	0.10	0.64	Average
4 @0.5349810	46.41	-9.59	56.00	45.67	0.10	0.64	QP
5 @1.010	40.07	-15.93	56.00	39.53	0.10	0.44	QP
6 @1.010	26.15	-19.85	46.00	25.61	0.10	0.44	Average
7 @2.310	39.29	-16.71	56.00	38.76	0.12	0.41	QP
8 @2.310	28.02	-17.98	46.00	27.49	0.12	0.41	Average
9 @7.020	31.84	-18.16	50.00	31.32	0.26	0.26	Average
10 @7.020	40.10	-19.90	60.00	39.58	0.26	0.26	QP
11 @16.840	41.99	-18.01	60.00	41.59	0.30	0.10	QP
12 @16.840	34.32	-15.68	50.00	33.92	0.30	0.10	Average

5.7 Radiated Emission Measurement

5.7.1 Measuring Instruments

As described in chapter 6 of this Report.

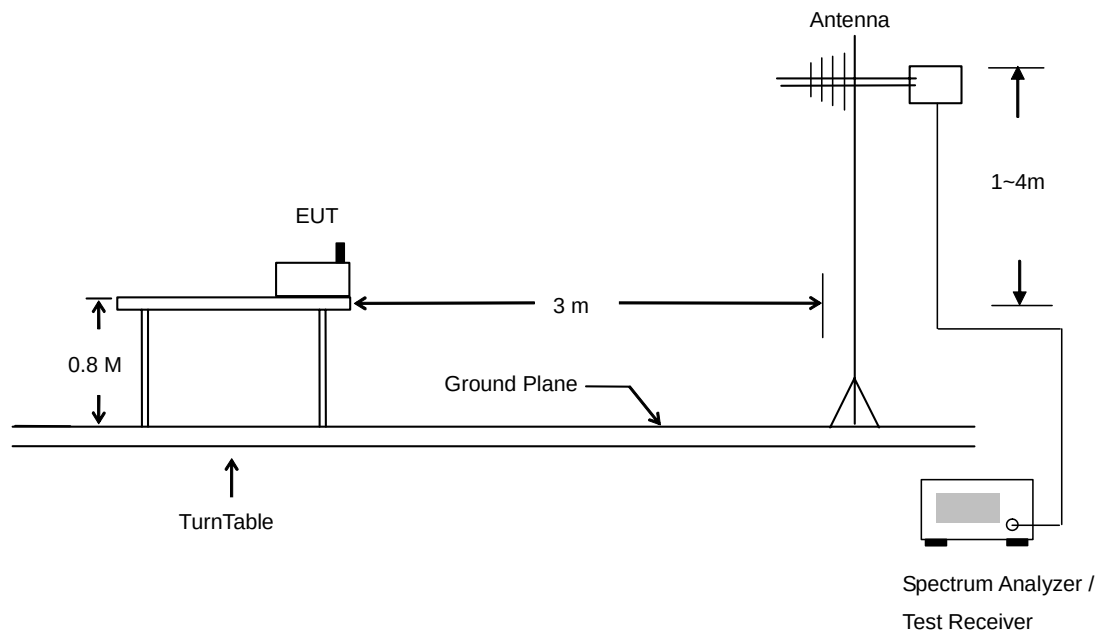
The spectrum analyzer setting :

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

5.7.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. 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.
- e. 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.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. 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.
- h. 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.

5.7.3 Typical Test Setup Layout of Radiated Emission

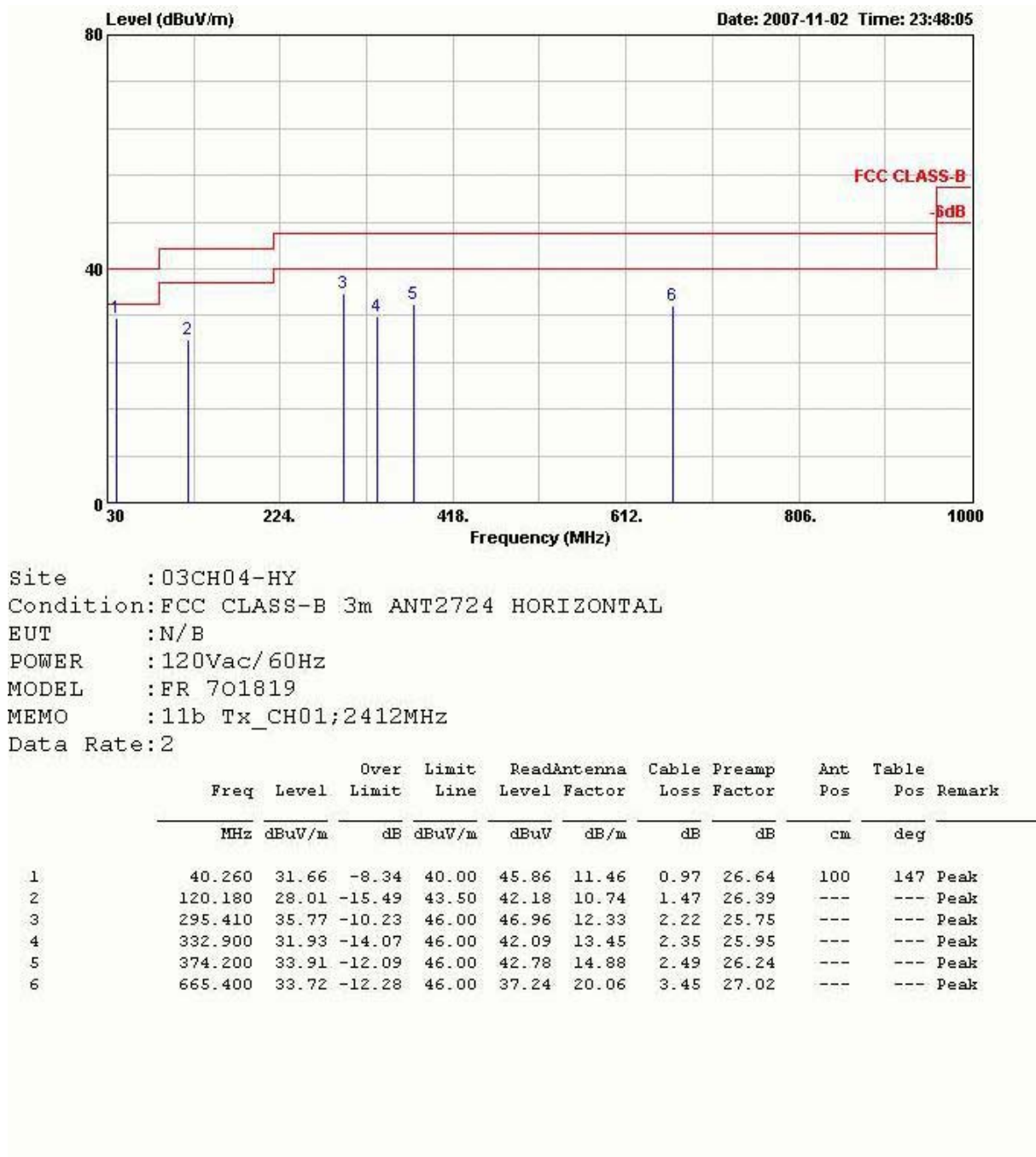


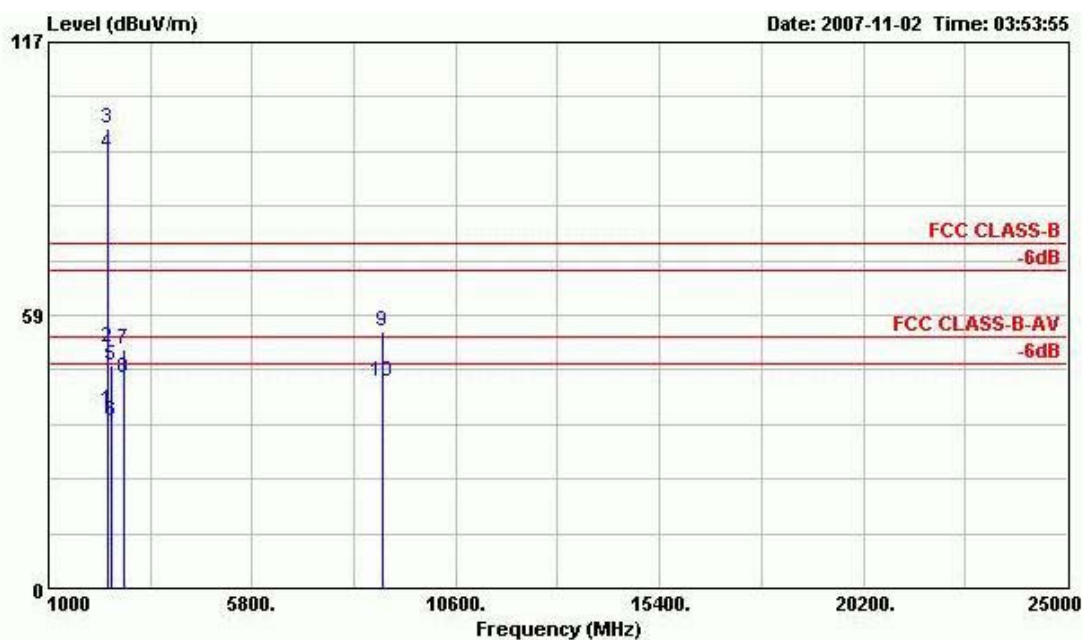


5.7.4 Test Data

- Temperature : 25~26°C
- Relating Humidity : 49~51%
- Test Enginner : Derek
- Test Mode : Mode 1
- Polarization : Horizontal

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





Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11b Tx_CH01;2412MHz
Data Rate: 2

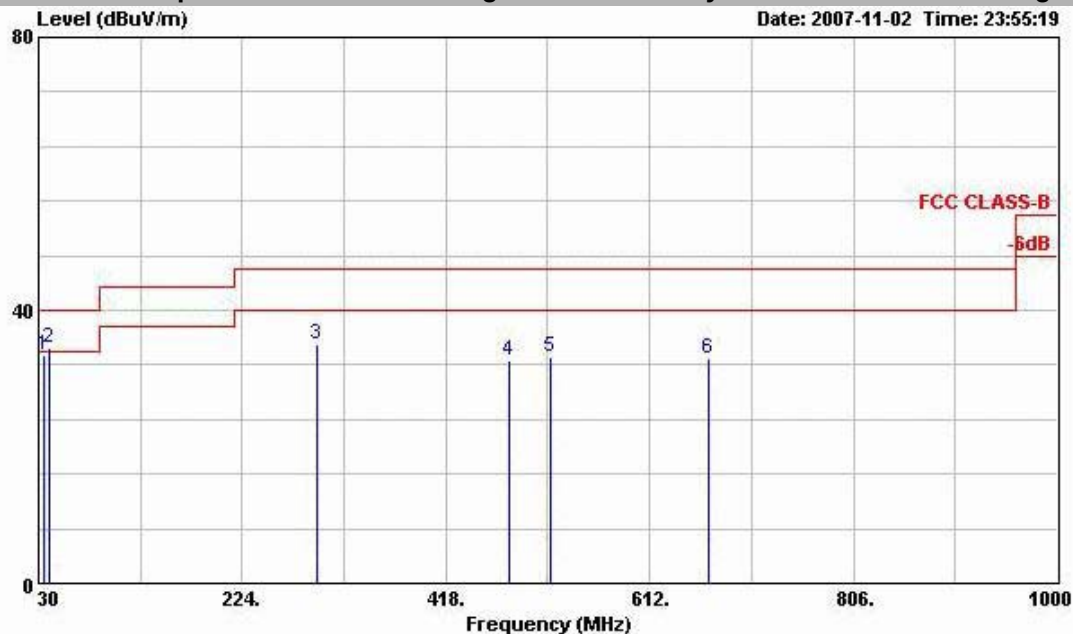
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	38.29	-15.71	54.00	40.26	28.07	3.74	33.78	100	38 Average
2	2390.000	51.57	-22.43	74.00	53.54	28.07	3.74	33.78	100	0 Peak
3 X	2412.000	98.60			100.51	28.11	3.76	33.78	100	0 Peak
4 @	2412.000	93.14			95.05	28.11	3.76	33.78	100	38 Average
5	2492.000	47.91	-26.09	74.00	49.57	28.30	3.84	33.80	100	0 Peak
6	2492.000	35.90	-18.10	54.00	37.56	28.30	3.84	33.80	100	38 Average
7	2782.000	51.37	-22.63	74.00	51.89	29.38	4.14	34.03	100	0 Peak
8	2782.000	45.22	-8.78	54.00	45.74	29.38	4.14	34.03	100	196 Average
9	8853.000	55.15	-18.85	74.00	44.71	37.92	7.20	34.68	100	0 Peak
10	8853.000	44.14	-9.86	54.00	33.70	37.92	7.20	34.68	100	131 Average

Remark: #3 and #4 Fundamental Signal



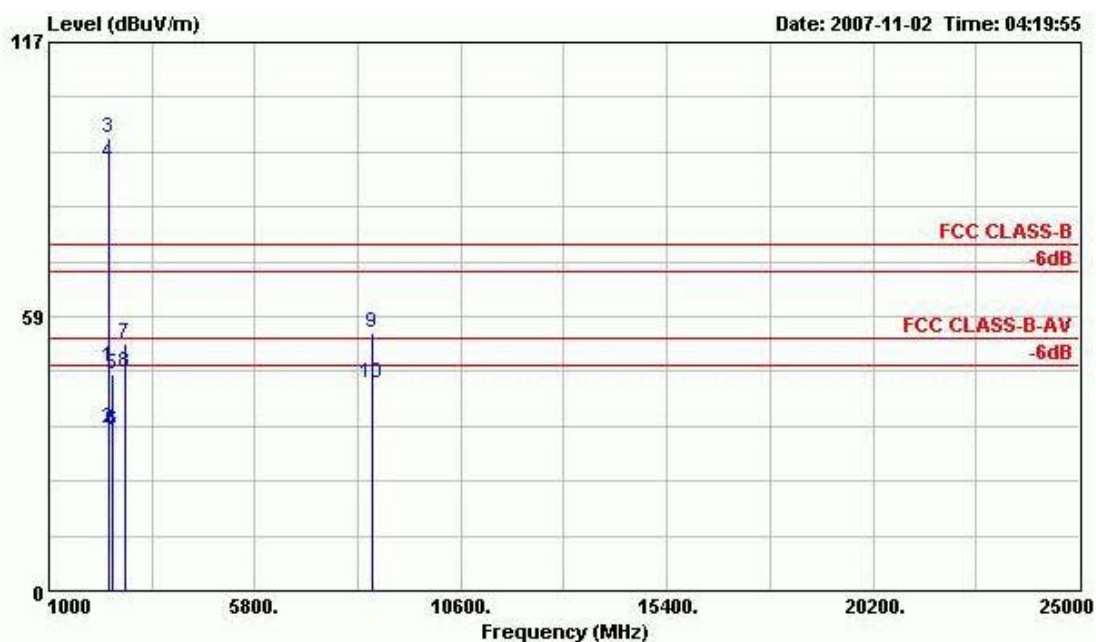
- Polarization : Vertical

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



Site : 03CHO4-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11b Tx_CH01;2412MHz
 Data Rate: 2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	35.130	33.37	-6.63	40.00	42.82	16.29	0.91	26.65	---	Peak
2	39.450	34.49	-5.51	40.00	48.35	11.82	0.96	26.64	100	154 Peak
3	295.410	34.91	-11.09	46.00	46.10	12.33	2.22	25.75	---	Peak
4	478.500	32.63	-13.37	46.00	40.14	16.65	2.77	26.94	---	Peak
5	517.700	33.06	-12.94	46.00	39.82	17.43	2.88	27.07	---	Peak
6	668.200	32.86	-13.14	46.00	36.37	20.06	3.45	27.02	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11b Tx_CH01;2412MHz
Data Rate: 2

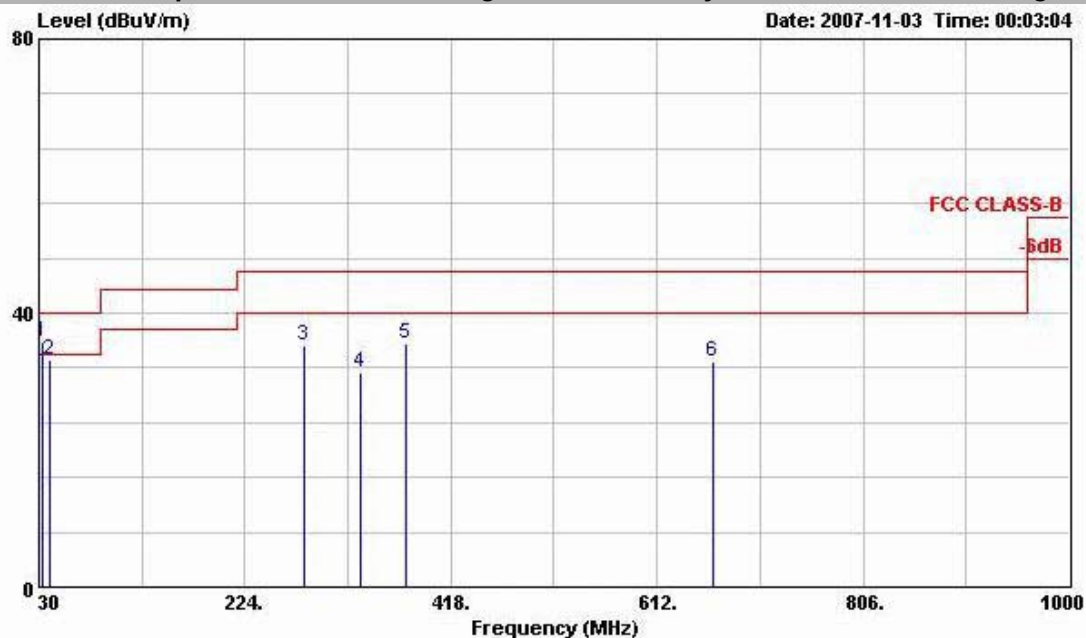
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	47.81	-26.19	74.00	49.78	28.07	3.74	33.78	100	0 Peak
2	2390.000	34.50	-19.50	54.00	36.47	28.07	3.74	33.78	100	97 Average
3 X	2412.000	96.71			98.62	28.11	3.76	33.78	100	0 Peak
4 @	2412.000	91.21			93.12	28.11	3.76	33.78	100	97 Average
5	2492.000	46.28	-27.72	74.00	47.94	28.30	3.84	33.80	100	0 Peak
6	2492.000	34.19	-19.81	54.00	35.85	28.30	3.84	33.80	100	97 Average
7	2782.000	52.61	-21.39	74.00	53.13	29.38	4.14	34.03	100	0 Peak
8	2782.000	46.42	-7.58	54.00	46.94	29.38	4.14	34.03	100	179 Average
9	8517.000	55.13	-18.87	74.00	45.01	37.52	7.02	34.42	100	0 Peak
10	8517.000	44.31	-9.69	54.00	34.19	37.52	7.02	34.42	100	198 Average

Remark: #3 and #4 Fundamental Signal



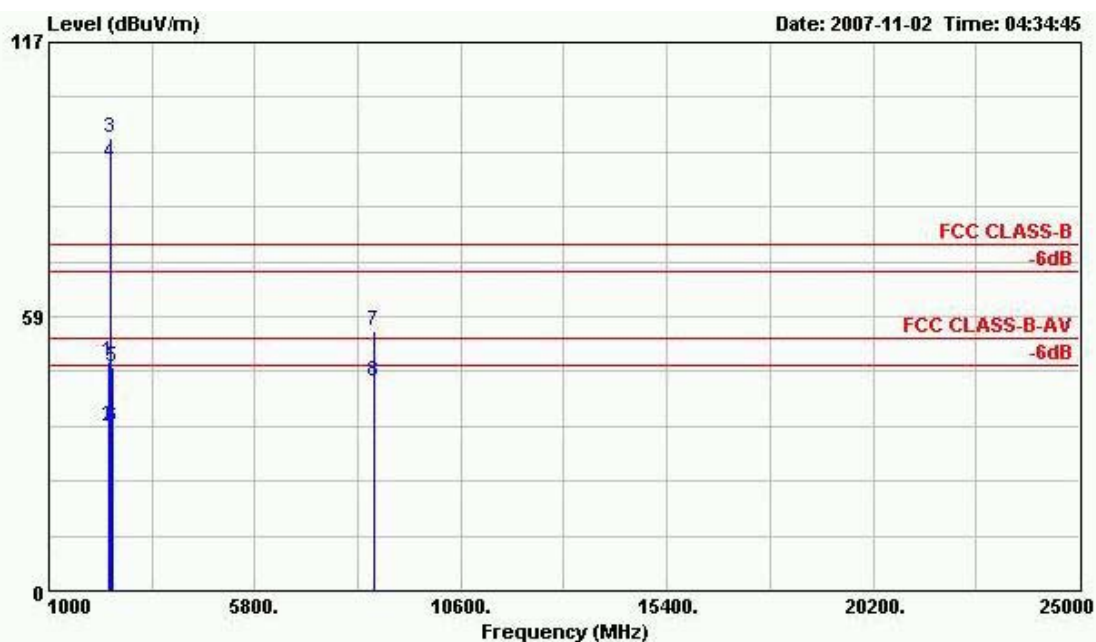
- Test Mode : Mode 2
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11b Tx_CH06:2437MHz
 Data Rate: 2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 !	33.780	35.85	-4.15	40.00	45.29	16.31	0.91	26.66	100	132 Peak
2	39.450	33.22	-6.78	40.00	47.08	11.82	0.96	26.64	---	Peak
3	278.940	35.19	-10.81	46.00	46.41	12.42	2.16	25.80	---	Peak
4	332.200	31.22	-14.78	46.00	41.38	13.45	2.35	25.95	---	Peak
5	374.900	35.42	-10.58	46.00	44.25	14.92	2.49	26.24	---	Peak
6	665.400	32.79	-13.21	46.00	36.31	20.06	3.45	27.02	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11b Tx_CH06:2437MHz
Data Rate: 2

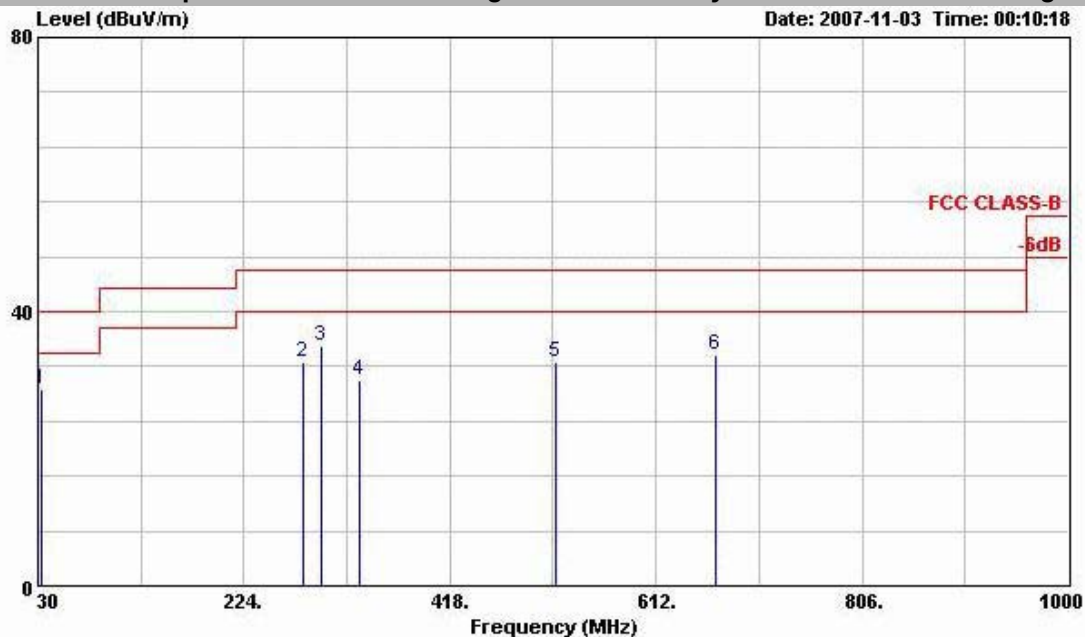
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	48.73	-25.27	74.00	50.70	28.07	3.74	33.78	100	0 Peak
2	2390.000	34.87	-19.13	54.00	36.84	28.07	3.74	33.78	100	38 Average
3 X	2437.000	96.70			98.51	28.19	3.79	33.79	100	0 Peak
4 @	2437.000	91.10			92.91	28.19	3.79	33.79	100	38 Average
5	2484.000	47.75	-26.25	74.00	49.45	28.26	3.84	33.80	100	0 Peak
6	2484.000	35.15	-18.85	54.00	36.85	28.26	3.84	33.80	100	38 Average
7	8574.000	55.33	-18.67	74.00	45.13	37.60	7.06	34.46	100	0 Peak
8	8574.000	44.73	-9.27	54.00	34.53	37.60	7.06	34.46	100	154 Average

Remark: #3 and #4 Fundamental Signal



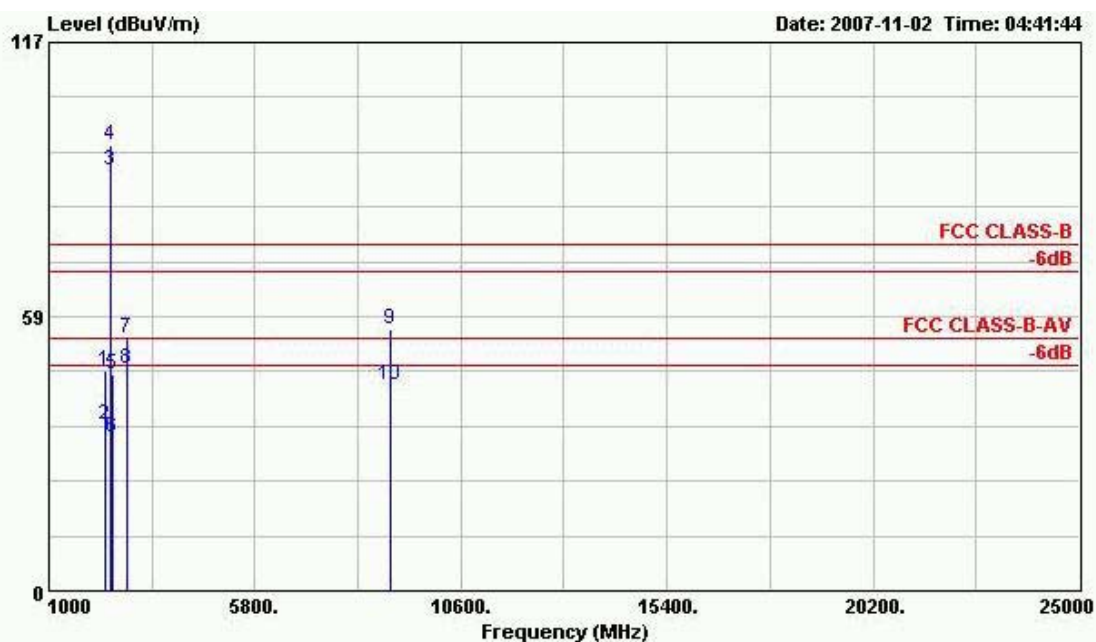
- Polarization : Vertical

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



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11b Tx_CH06:2437MHz
Data Rate: 2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	32.970	28.74	-11.26	40.00	38.18	16.33	0.90	26.66	---	Peak
2	280.290	32.65	-13.35	46.00	43.87	12.41	2.17	25.80	---	Peak
3	296.220	35.08	-10.92	46.00	46.26	12.33	2.23	25.74	100	214 Peak
4	332.900	29.94	-16.06	46.00	40.10	13.45	2.35	25.95	---	Peak
5	517.700	32.53	-13.47	46.00	39.29	17.43	2.88	27.07	---	Peak
6	668.200	33.75	-12.25	46.00	37.26	20.06	3.45	27.02	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11b Tx_CH06:2437MHz
Data Rate: 2

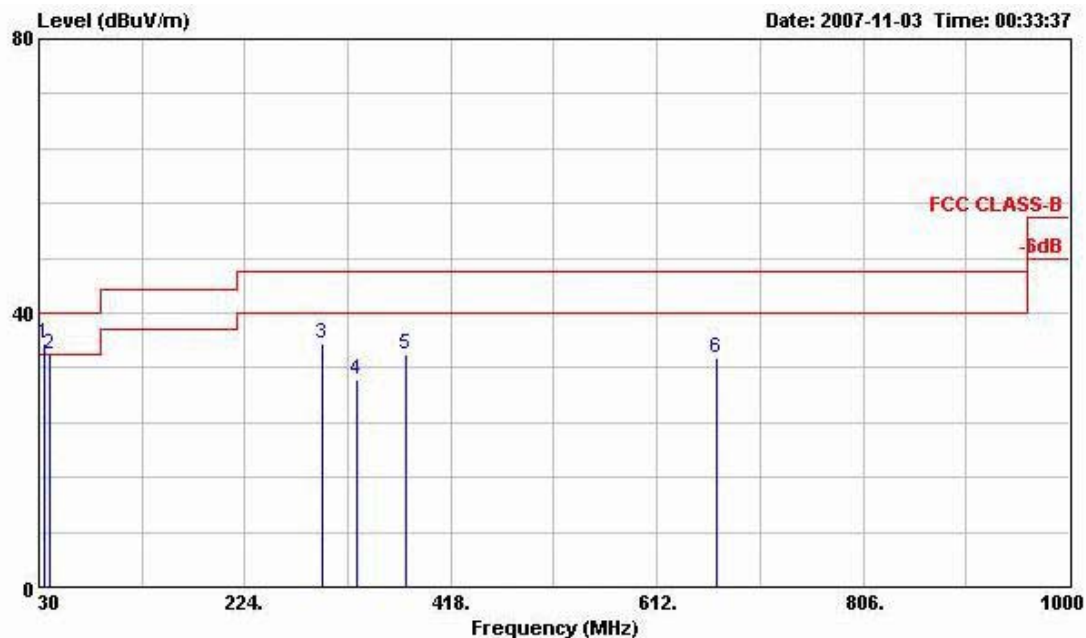
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2324.000	47.00	-27.00	74.00	49.18	27.92	3.66	33.77	100	0 Peak
2	2324.000	35.49	-18.51	54.00	37.67	27.92	3.66	33.77	100	95 Average
3 @	2437.000	89.62			91.43	28.19	3.79	33.79	100	95 Average
4 X	2437.000	95.24			97.05	28.19	3.79	33.79	100	0 Peak
5	2500.000	46.18	-27.82	74.00	47.84	28.30	3.84	33.80	100	0 Peak
6	2500.000	32.79	-21.21	54.00	34.45	28.30	3.84	33.80	100	95 Average
7	2836.000	53.71	-20.29	74.00	54.03	29.57	4.19	34.07	100	0 Peak
8	2836.000	47.19	-6.81	54.00	47.51	29.57	4.19	34.07	100	97 Average
9	8961.000	55.96	-18.04	74.00	45.42	38.04	7.26	34.76	100	0 Peak
10	8961.000	44.01	-9.99	54.00	33.47	38.04	7.26	34.76	100	167 Average

Remark: #3 and #4 Fundamental Signal



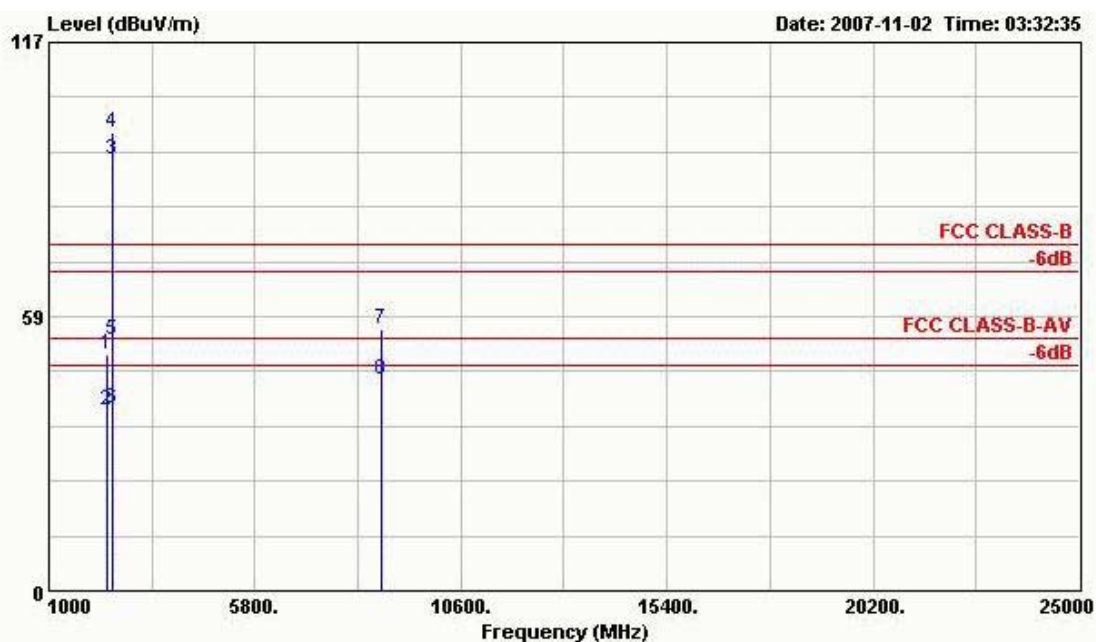
- Test Mode : Mode 3
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11b Tx_CH11;2462MHz
 Data Rate: 2

	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 !	34.590	35.57	-4.43	40.00	45.03	16.29	0.91	26.66	100	167 Peak
2	39.450	33.95	-6.05	40.00	47.81	11.82	0.96	26.64	---	---
3	296.220	35.42	-10.58	46.00	46.60	12.33	2.23	25.74	---	---
4	330.100	30.37	-15.63	46.00	40.62	13.35	2.34	25.93	---	---
5	374.900	34.01	-11.99	46.00	42.84	14.92	2.49	26.24	---	---
6	668.200	33.34	-12.66	46.00	36.85	20.06	3.45	27.02	---	---



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11b Tx_CH11;2462MHz
Data Rate: 2

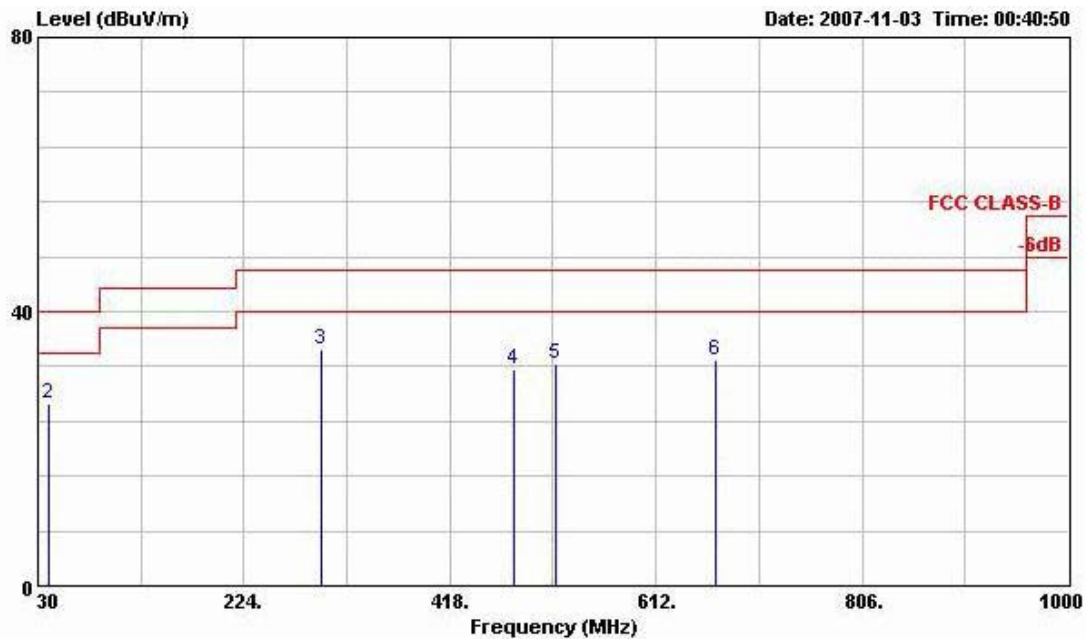
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2340.000	50.26	-23.74	74.00	52.38	27.96	3.69	33.77	100	0 Peak
2	2340.000	38.43	-15.57	54.00	40.55	27.96	3.69	33.77	100	32 Average
3 @	2462.000	92.15			93.90	28.22	3.81	33.79	100	32 Average
4 X	2462.000	97.70			99.45	28.22	3.81	33.79	100	0 Peak
5	2483.500	53.38	-20.62	74.00	55.08	28.26	3.84	33.80	100	0 Peak
6	2483.500	38.90	-15.10	54.00	40.60	28.26	3.84	33.80	100	32 Average
7	8742.000	55.73	-18.27	74.00	45.40	37.78	7.15	34.60	100	0 Peak
8	8742.000	45.05	-8.95	54.00	34.72	37.78	7.15	34.60	100	199 Average

Remark: #3 and #4 Fundamental Signal



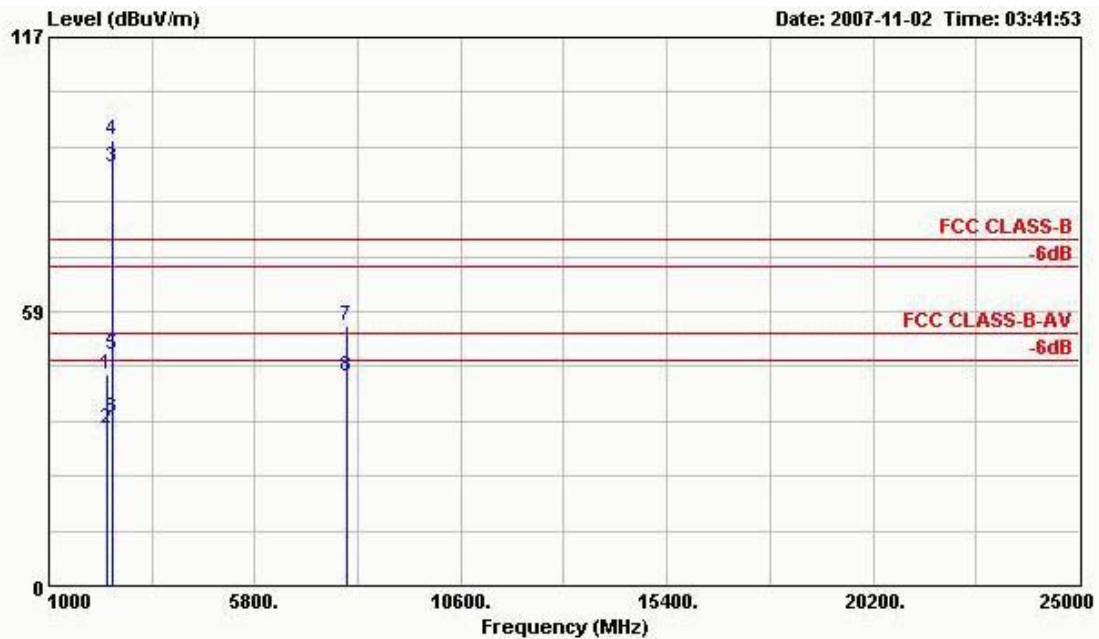
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11b Tx_CH11;2462MHz
 Data Rate: 2

			Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.540	27.44	-12.56	40.00	36.88	16.36	0.87	26.67	---	---	Peak
2	40.260	26.58	-13.42	40.00	40.78	11.46	0.97	26.64	---	---	Peak
3	297.300	34.48	-11.52	46.00	45.66	12.32	2.23	25.74	100	198	Peak
4	478.500	31.71	-14.29	46.00	39.22	16.65	2.77	26.94	---	---	Peak
5	517.700	32.35	-13.65	46.00	39.11	17.43	2.88	27.07	---	---	Peak
6	668.200	32.93	-13.07	46.00	36.44	20.06	3.45	27.02	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11b Tx_CH11;2462MHz
 Data Rate: 2

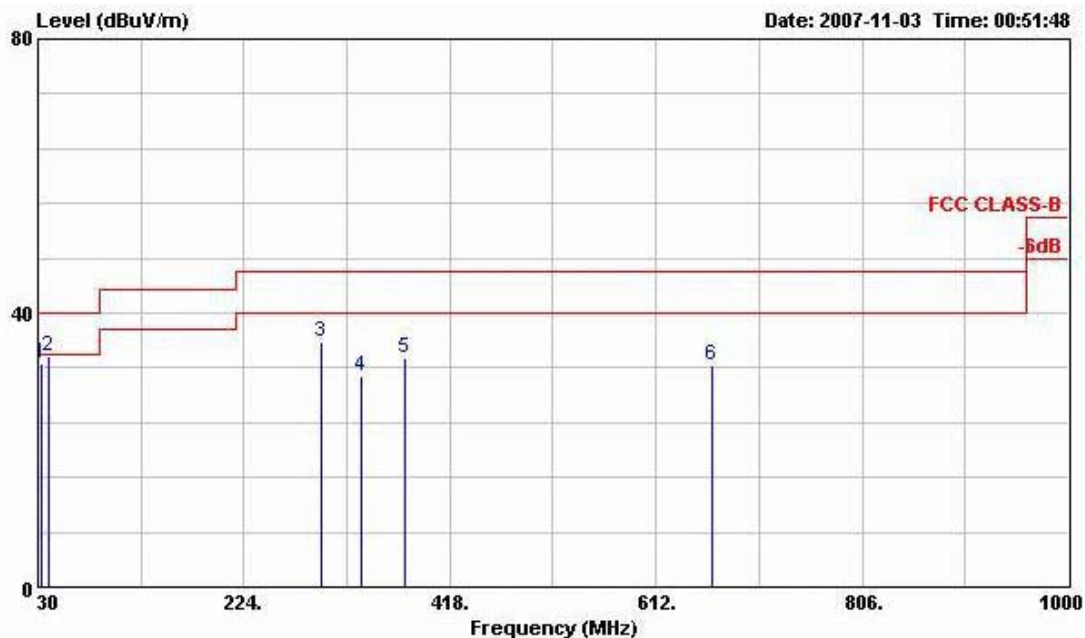
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2340.000	45.08	-28.92	74.00	47.20	27.96	3.69	33.77	100	0 Peak
2	2340.000	33.31	-20.69	54.00	35.43	27.96	3.69	33.77	100	106 Average
3 @	2462.000	89.40			91.15	28.22	3.81	33.79	100	106 Average
4 X	2462.000	94.90			96.65	28.22	3.81	33.79	100	0 Peak
5	2483.500	49.44	-24.56	74.00	51.14	28.26	3.84	33.80	100	0 Peak
6	2483.500	35.75	-18.25	54.00	37.45	28.26	3.84	33.80	100	106 Average
7	7953.000	55.24	-18.76	74.00	45.36	36.76	6.74	33.62	100	0 Peak
8	7953.000	44.71	-9.29	54.00	34.83	36.76	6.74	33.62	100	185 Average

Remark: #3 and #4 Fundamental Signal



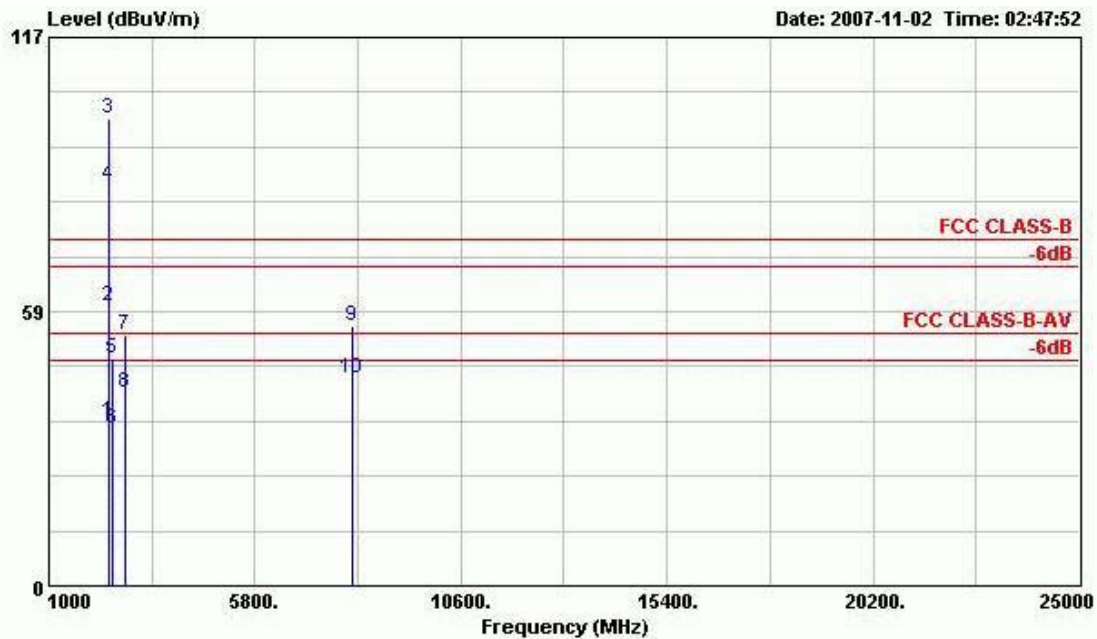
- Test Mode : Mode 4
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH01;2412MHz
 Data Rate: 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	34.050	32.76	-7.24	40.00	42.20	16.31	0.91	26.66	---	Peak
2	39.450	33.73	-6.27	40.00	47.59	11.82	0.96	26.64	100	154 Peak
3	296.220	35.83	-10.17	46.00	47.01	12.33	2.23	25.74	---	Peak
4	335.000	30.75	-15.25	46.00	40.85	13.51	2.35	25.97	---	Peak
5	374.900	33.41	-12.59	46.00	42.24	14.92	2.49	26.24	---	Peak
6	665.400	32.40	-13.60	46.00	35.92	20.06	3.45	27.02	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH01;2412MHz
 Data Rate: 6

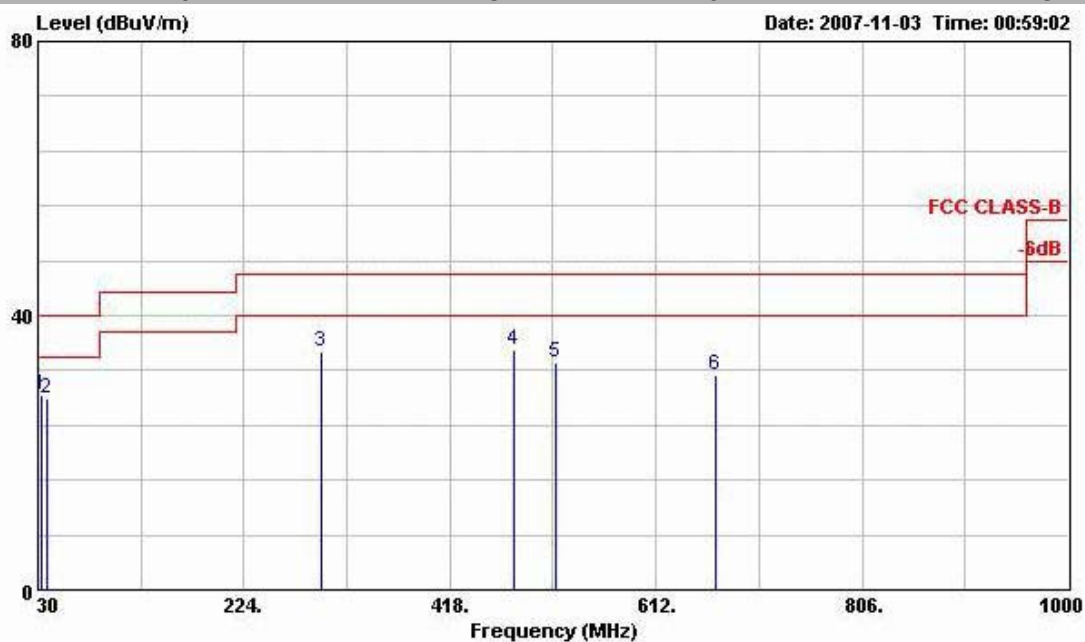
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	35.01	-18.99	54.00	36.98	28.07	3.74	33.78	100	36 Average
2	2390.000	59.77	-14.23	74.00	61.74	28.07	3.74	33.78	100	0 Peak
3 X	2412.000	99.60			101.51	28.11	3.76	33.78	100	0 Peak
4 @	2412.000	85.27			87.18	28.11	3.76	33.78	100	36 Average
5	2484.000	48.43	-25.57	74.00	50.13	28.26	3.84	33.80	100	0 Peak
6	2484.000	33.37	-20.63	54.00	35.07	28.26	3.84	33.80	100	36 Average
7	2782.000	53.57	-20.43	74.00	54.09	29.38	4.14	34.03	100	0 Peak
8	2782.000	41.30	-12.70	54.00	41.82	29.38	4.14	34.03	125	190 Average
9	8049.000	55.56	-18.44	74.00	45.54	36.87	6.78	33.64	100	0 Peak
10	8049.000	44.35	-9.65	54.00	34.33	36.87	6.78	33.64	100	137 Average

Remark: #3 and #4 Fundamental Signal



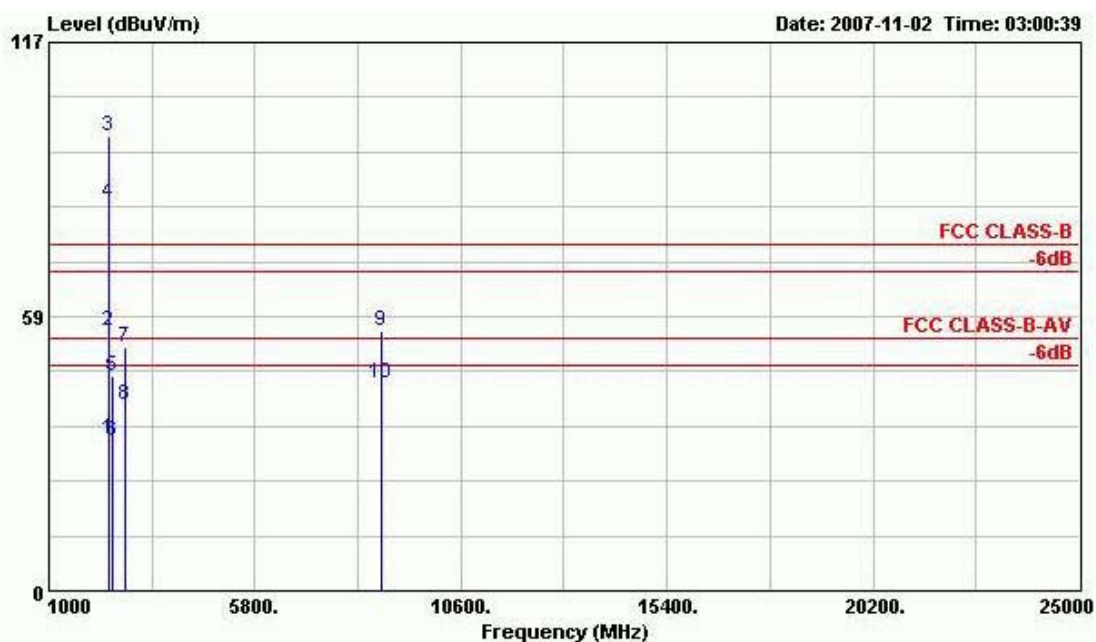
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH01;2412MHz
 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	33.780	28.50	-11.50	40.00	37.94	16.31	0.91	26.66	---	---	Peak
2	39.180	27.78	-12.22	40.00	40.75	12.71	0.96	26.64	---	---	Peak
3	296.490	34.73	-11.27	46.00	45.92	12.33	2.23	25.74	---	---	Peak
4	478.500	34.99	-11.01	46.00	42.50	16.65	2.77	26.94	100	277	Peak
5	517.700	33.25	-12.75	46.00	40.01	17.43	2.88	27.07	---	---	Peak
6	668.200	31.40	-14.60	46.00	34.91	20.06	3.45	27.02	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11g Tx_CH01;2412MHz
Data Rate: 6

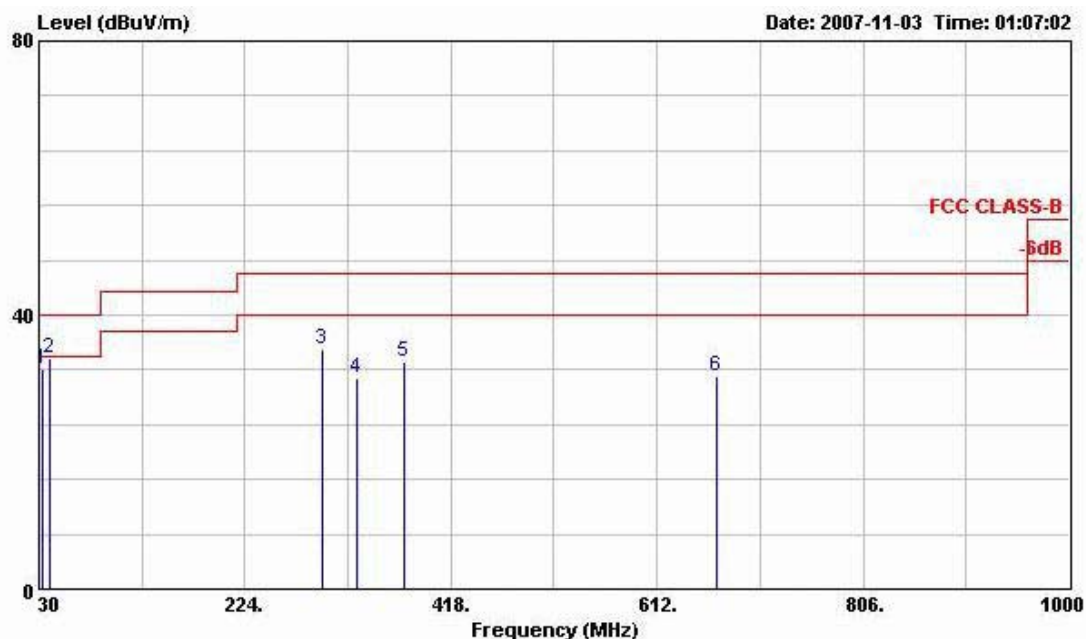
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	32.51	-21.49	54.00	34.48	28.07	3.74	33.78	100	96 Average
2	2390.000	55.52	-18.48	74.00	57.49	28.07	3.74	33.78	100	0 Peak
3 X	2412.000	97.12			99.03	28.11	3.76	33.78	100	0 Peak
4 @	2412.000	82.66			84.57	28.11	3.76	33.78	100	96 Average
5	2492.000	45.94	-28.06	74.00	47.60	28.30	3.84	33.80	100	0 Peak
6	2492.000	31.94	-22.06	54.00	33.60	28.30	3.84	33.80	100	96 Average
7	2782.000	51.99	-22.01	74.00	52.51	29.38	4.14	34.03	100	0 Peak
8	2782.000	39.65	-14.35	54.00	40.17	29.38	4.14	34.03	124	193 Average
9	8757.000	55.35	-18.65	74.00	45.00	37.80	7.15	34.60	100	0 Peak
10	8757.000	44.17	-9.83	54.00	33.82	37.80	7.15	34.60	100	112 Average

Remark: #3 and #4 Fundamental Signal



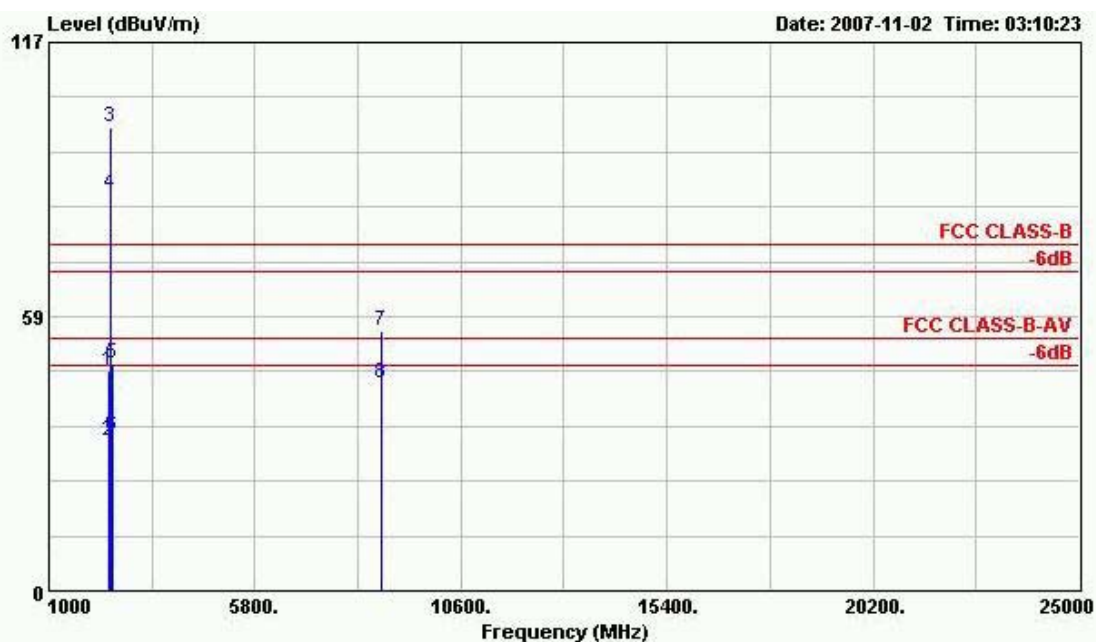
- Test Mode : Mode 5
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH06;2437MHz
 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	33.780	32.18	-7.82	40.00	41.62	16.31	0.91	26.66	---	---	Peak
2	39.450	33.78	-6.22	40.00	47.64	11.82	0.96	26.64	100	166	Peak
3	296.220	34.90	-11.10	46.00	46.08	12.33	2.23	25.74	---	---	Peak
4	330.100	30.66	-15.34	46.00	40.91	13.35	2.34	25.93	---	---	Peak
5	374.200	33.22	-12.78	46.00	42.09	14.88	2.49	26.24	---	---	Peak
6	668.200	30.97	-15.03	46.00	34.48	20.06	3.45	27.02	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11g Tx_CH06;2437MHz
Data Rate: 6

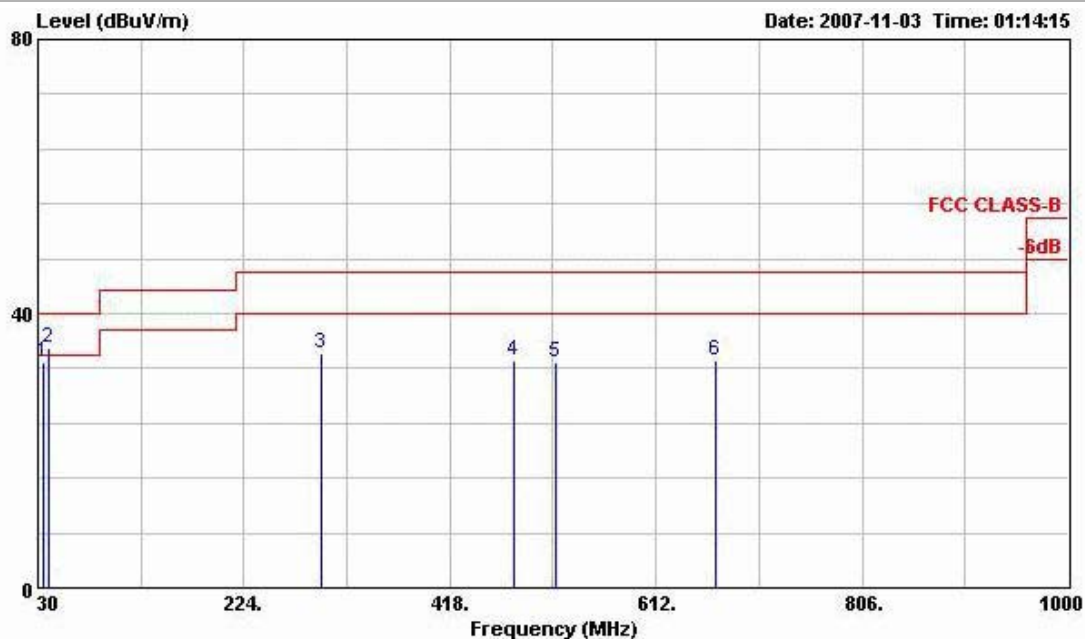
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.000	47.13	-26.87	74.00	49.10	28.07	3.74	33.78	100	0 Peak
2	2390.000	31.92	-22.08	54.00	33.89	28.07	3.74	33.78	100	40 Average
3 X	2437.000	99.04			100.85	28.19	3.79	33.79	100	0 Peak
4 @	2437.000	84.52			86.33	28.19	3.79	33.79	100	40 Average
5	2484.000	48.62	-25.38	74.00	50.32	28.26	3.84	33.80	100	0 Peak
6	2484.000	33.13	-20.87	54.00	34.83	28.26	3.84	33.80	100	40 Average
7	8754.000	55.59	-18.41	74.00	45.24	37.80	7.15	34.60	100	0 Peak
8	8754.000	44.09	-9.91	54.00	33.74	37.80	7.15	34.60	100	197 Average

Remark: #3 and #4 Fundamental Signal



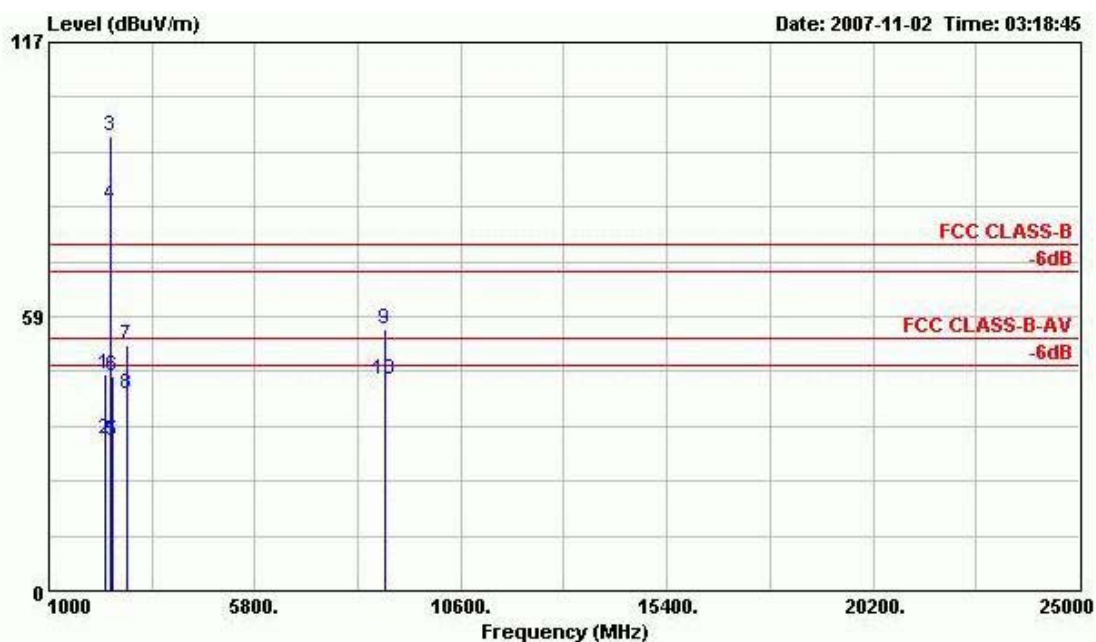
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH06;2437MHz
 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	35.130	32.98	-7.02	40.00	42.43	16.29	0.91	26.65	---	---	Peak
2	39.450	35.01	-4.99	40.00	48.87	11.82	0.96	26.64	100	187	Peak
3	297.570	34.28	-11.72	46.00	45.46	12.32	2.23	25.74	---	---	Peak
4	478.500	33.12	-12.88	46.00	40.63	16.65	2.77	26.94	---	---	Peak
5	517.700	32.99	-13.01	46.00	39.75	17.43	2.88	27.07	---	---	Peak
6	668.200	33.21	-12.79	46.00	36.72	20.06	3.45	27.02	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11g Tx_CH06;2437MHz
Data Rate: 6

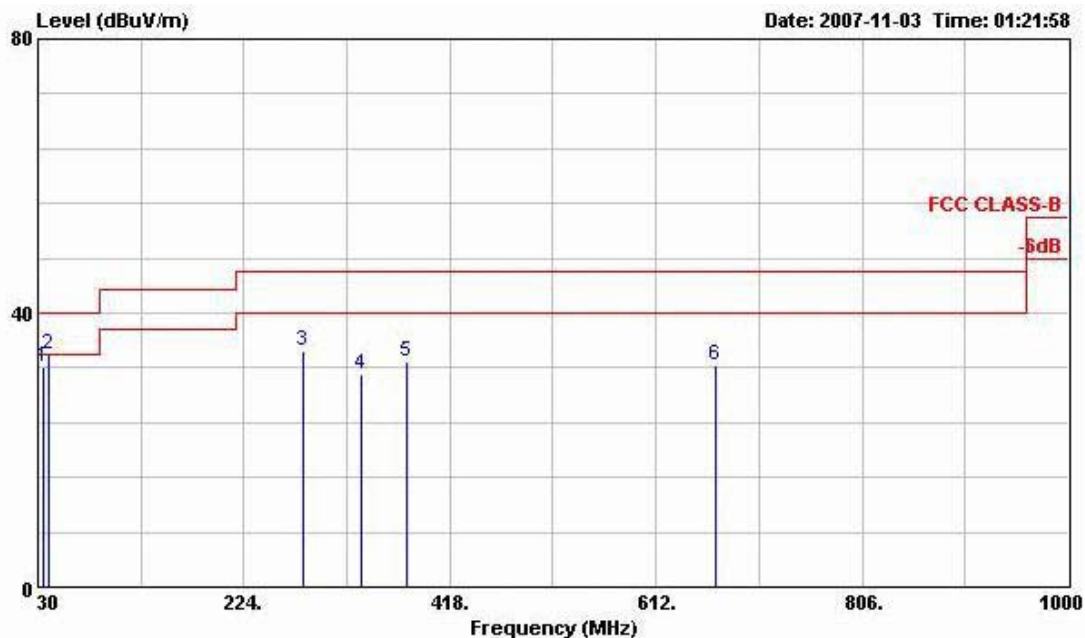
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2326.000	46.14	-27.86	74.00	48.32	27.92	3.66	33.77	100	0 Peak
2	2326.000	32.20	-21.80	54.00	34.38	27.92	3.66	33.77	100	99 Average
3 X	2437.000	96.83			98.64	28.19	3.79	33.79	100	0 Peak
4 @	2437.000	82.42			84.23	28.19	3.79	33.79	100	99 Average
5	2486.000	31.93	-22.07	54.00	33.63	28.26	3.84	33.80	100	99 Average
6	2486.000	45.91	-28.09	74.00	47.61	28.26	3.84	33.80	100	0 Peak
7	2836.000	52.16	-21.84	74.00	52.48	29.57	4.19	34.07	100	0 Peak
8	2836.000	42.03	-11.97	54.00	42.35	29.57	4.19	34.07	100	96 Average
9	8841.000	55.68	-18.32	74.00	45.24	37.90	7.20	34.66	100	0 Peak
10	8841.000	45.14	-8.86	54.00	34.70	37.90	7.20	34.66	100	171 Average

Remark: #3 and #4 Fundamental Signal



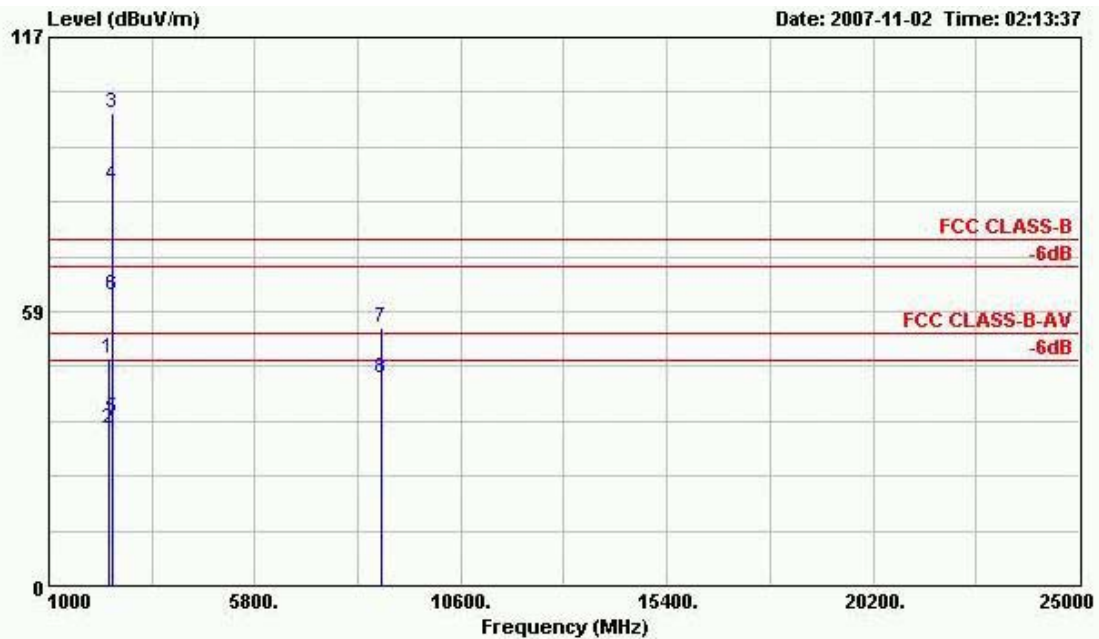
- Test Mode : Mode 6
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH11;2462MHz
 Data Rate: 6

	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	34.590	32.03	-7.97	40.00	41.49	16.29	0.91	26.66	---	---	Peak
2	39.450	34.05	-5.95	40.00	47.91	11.82	0.96	26.64	100	175	Peak
3	280.020	34.54	-11.46	46.00	45.76	12.41	2.17	25.80	---	---	Peak
4	335.000	31.12	-14.88	46.00	41.22	13.51	2.35	25.97	---	---	Peak
5	377.000	32.77	-13.23	46.00	41.54	14.98	2.49	26.25	---	---	Peak
6	668.200	32.39	-13.61	46.00	35.90	20.06	3.45	27.02	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11g Tx_CH11;2462MHz
Data Rate: 6

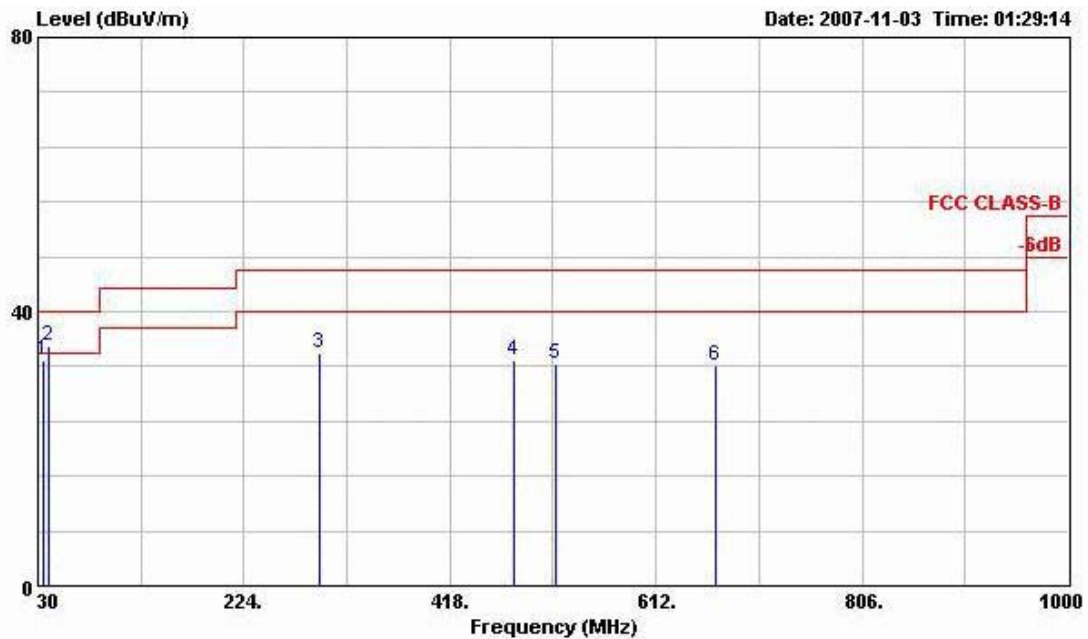
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2382.000	48.46	-25.54	74.00	50.46	28.03	3.74	33.78	---	---	Peak
2	2382.000	33.63	-20.37	54.00	35.63	28.03	3.74	33.78	142	35	Average
3 X	2462.000	100.78			102.54	28.22	3.81	33.80	100	0	Peak
4 @	2462.000	85.42			87.17	28.22	3.81	33.79	142	35	Average
5	2483.500	35.81	-18.19	54.00	37.51	28.26	3.84	33.80	142	35	Average
6	2483.500	62.13	-11.87	74.00	63.83	28.26	3.84	33.80	100	0	Peak
7	8745.000	55.11	-18.89	74.00	44.76	37.80	7.15	34.60	100	0	Peak
8	8745.000	44.41	-9.59	54.00	34.06	37.80	7.15	34.60	100	119	Average

Remark: #3 and #4 Fundamental Signal



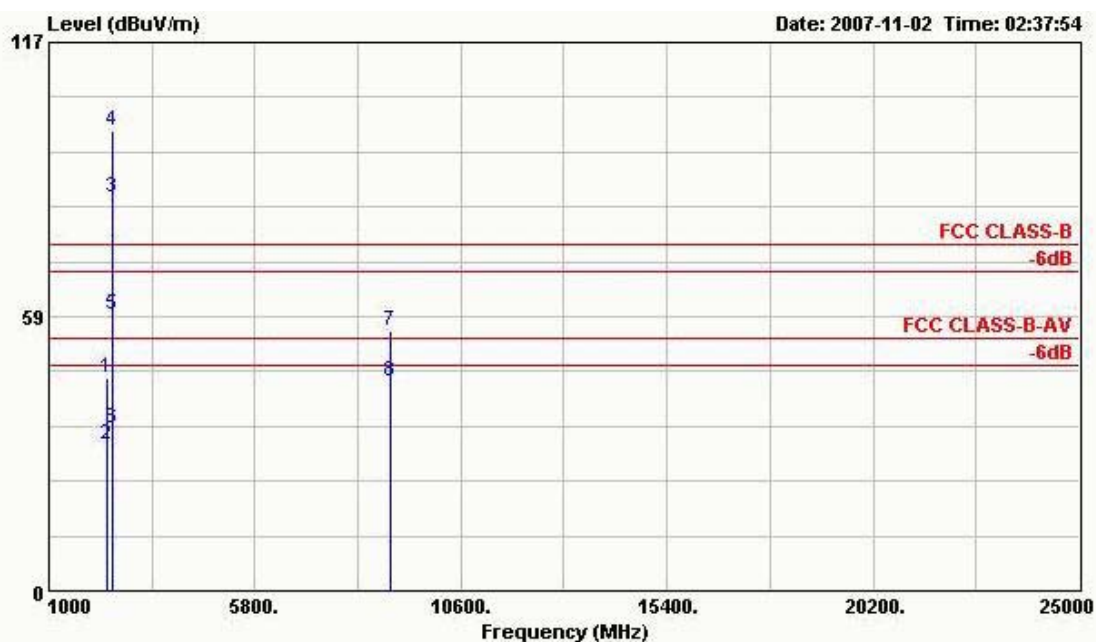
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11g Tx_CH11;2462MHz
 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	35.130	32.88	-7.12	40.00	42.33	16.29	0.91	26.65	---	--- Peak
2	39.450	34.92	-5.08	40.00	48.78	11.82	0.96	26.64	100	191 Peak
3	295.410	34.01	-11.99	46.00	45.20	12.33	2.22	25.75	---	--- Peak
4	478.500	32.79	-13.21	46.00	40.30	16.65	2.77	26.94	---	--- Peak
5	517.700	32.28	-13.72	46.00	39.04	17.43	2.88	27.07	---	--- Peak
6	668.200	32.14	-13.86	46.00	35.65	20.06	3.45	27.02	---	--- Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11g Tx_CH11;2462MHz
Data Rate: 6

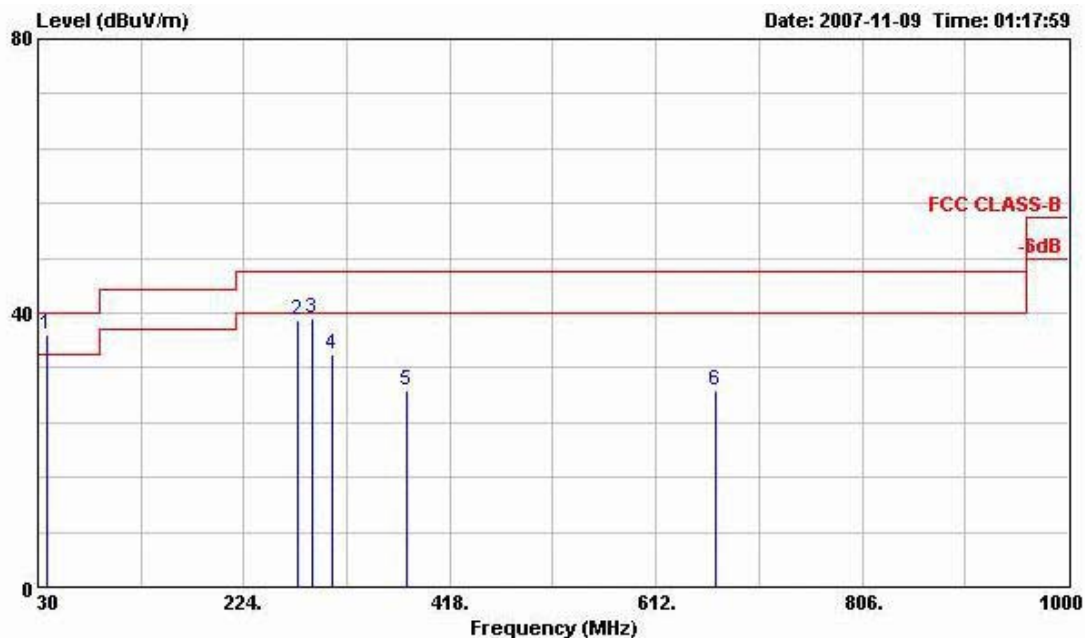
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2334.000	45.53	-28.47	74.00	47.69	27.92	3.69	33.77	100	0 Peak
2	2334.000	31.36	-22.64	54.00	33.52	27.92	3.69	33.77	100	107 Average
3 @	2462.000	83.76			85.51	28.22	3.81	33.79	100	107 Average
4 X	2462.000	98.26			100.02	28.22	3.81	33.80	100	0 Peak
5	2483.500	58.88	-15.12	74.00	60.58	28.26	3.84	33.80	100	0 Peak
6	2483.500	34.55	-19.45	54.00	36.25	28.26	3.84	33.80	100	107 Average
7	8946.000	55.42	-18.58	74.00	44.91	38.02	7.25	34.76	100	0 Peak
8	8946.000	44.57	-9.43	54.00	34.06	38.02	7.25	34.76	100	164 Average

Remark: #3 and #4 Fundamental Signal



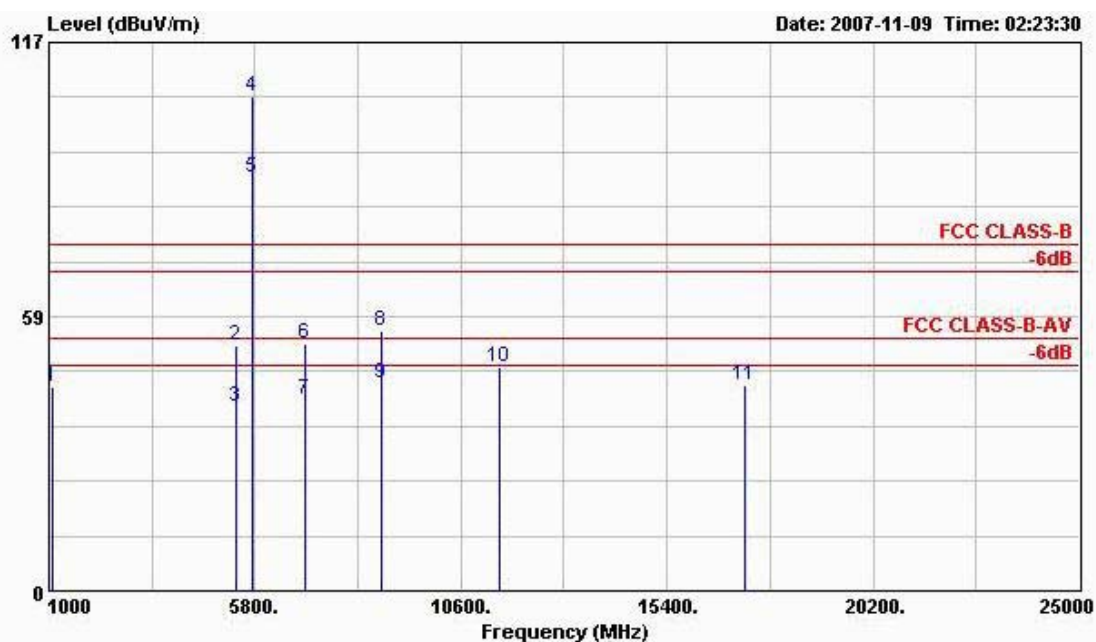
- Test Mode : Mode 7
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11a Tx_Ch149;5745MHz
 Data Rate: 9

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 !	38.370	36.78	-3.22	40.00	51.39	12.71	0.95	28.27	100	174 Peak
2	274.890	38.88	-7.12	46.00	51.94	12.44	2.15	27.65	---	Peak
3	287.580	39.13	-6.87	46.00	52.19	12.37	2.19	27.63	---	Peak
4	307.700	34.02	-11.98	46.00	46.83	12.58	2.27	27.66	---	Peak
5	377.000	28.57	-17.43	46.00	39.23	14.98	2.49	28.14	---	Peak
6	668.200	28.71	-17.29	46.00	34.30	20.06	3.45	29.10	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11a Tx_Ch149;5745MHz
Data Rate: 9

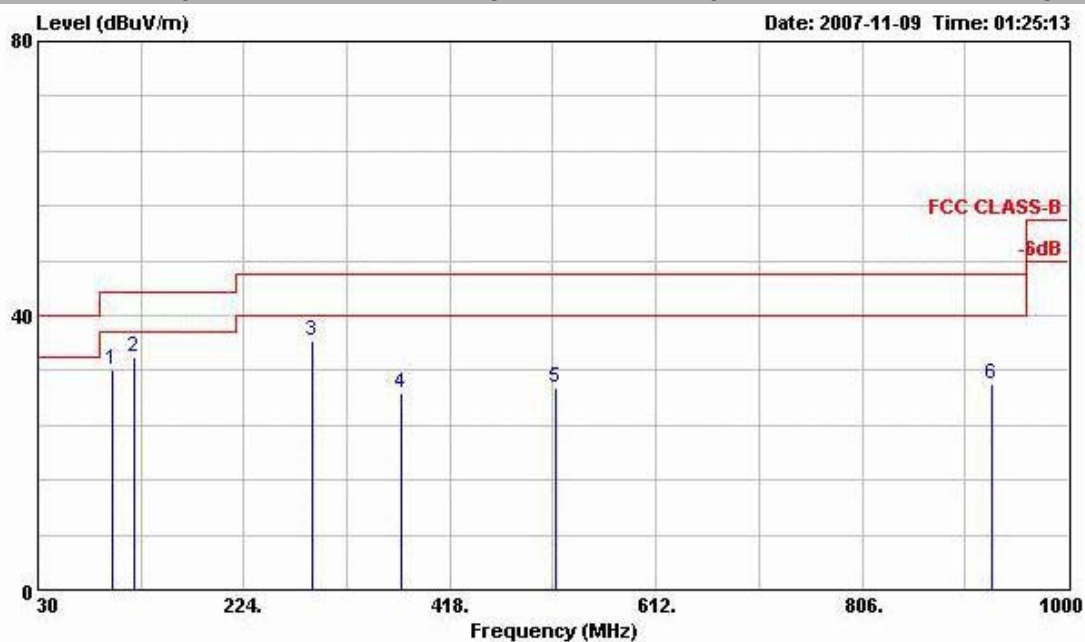
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1100.000	43.41	-30.59	74.00	51.07	24.27	2.34	34.26	100	0 Peak
2	5348.000	52.43	-21.57	74.00	46.96	33.62	6.00	34.15	100	0 Peak
3	5348.000	39.31	-14.69	54.00	33.84	33.62	6.00	34.15	100	340 Average
4 X	5745.000	105.28			99.36	33.94	6.02	34.05	100	0 Peak
5 @	5745.000	88.12			82.20	33.94	6.02	34.05	100	340 Average
6	6974.000	52.73	-21.27	74.00	43.77	35.13	6.35	32.52	100	0 Peak
7	6974.000	40.64	-13.36	54.00	31.68	35.13	6.35	32.52	100	340 Average
8	8742.000	55.33	-18.67	74.00	45.00	37.78	7.15	34.60	100	0 Peak
9	8742.000	44.31	-9.69	54.00	33.98	37.78	7.15	34.60	100	175 Average
10	11492.000	47.64	-26.36	74.00	85.82	-11.73	7.84	34.30	100	0 Peak
11	17232.000	43.96	-30.04	74.00	79.40	-11.07	9.42	33.80	100	0 Peak

Remark: #4 and #5 Fundamental Signal



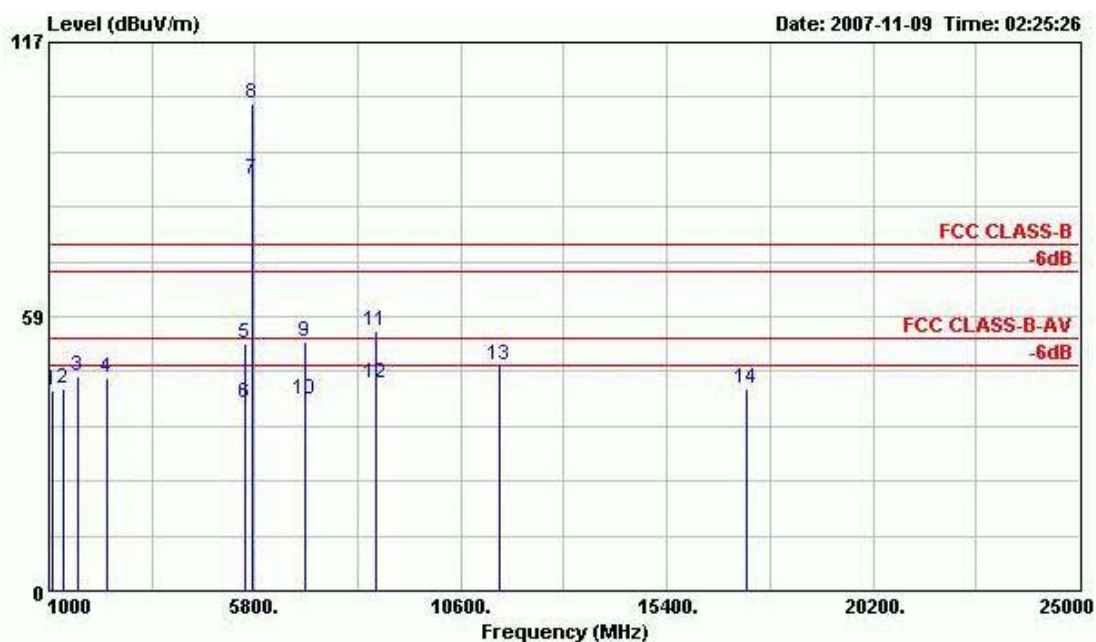
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11a Tx_Ch149;5745MHz
 Data Rate: 9

	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	99.930	32.08	-11.42	43.50	50.95	7.95	1.38	28.20	---	---	Peak
2	120.180	33.86	-9.64	43.50	49.77	10.74	1.47	28.12	100	155	Peak
3	288.660	36.23	-9.77	46.00	49.29	12.37	2.20	27.62	---	---	Peak
4	372.100	28.62	-17.38	46.00	39.43	14.81	2.48	28.11	---	---	Peak
5	517.700	29.45	-16.55	46.00	38.16	17.43	2.88	29.02	---	---	Peak
6	928.600	29.99	-16.01	46.00	30.54	24.23	3.97	28.74	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MEMO : 11a Tx_Ch149;5745MHz
Data Rate: 9

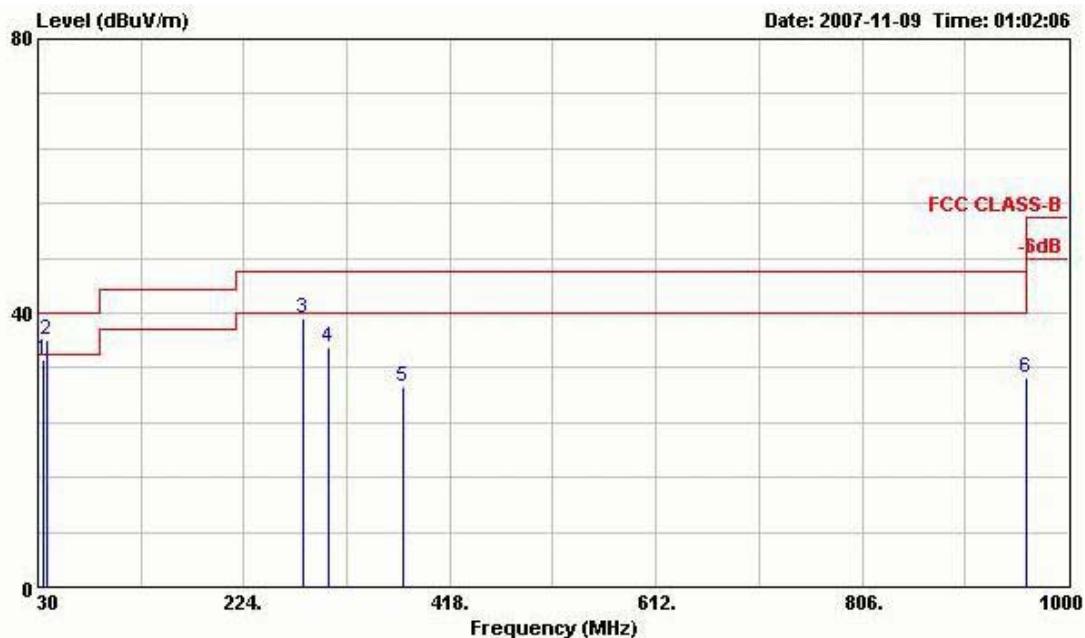
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1084.000	42.85	-31.15	74.00	50.59	24.22	2.34	34.30	100	0	Peak
2	1332.000	42.99	-31.01	74.00	49.44	24.90	2.60	33.95	100	0	Peak
3	1662.000	45.76	-28.24	74.00	50.56	25.93	2.97	33.70	100	0	Peak
4	2334.000	45.55	-28.45	74.00	47.71	27.92	3.69	33.77	100	0	Peak
5	5582.000	52.68	-21.32	74.00	46.89	33.85	6.01	34.08	100	0	Peak
6	5582.000	40.17	-13.83	54.00	34.38	33.85	6.01	34.08	120	177	Average
7 @	5745.000	87.80			81.88	33.94	6.02	34.05	120	177	Average
8 X	5745.000	103.85			97.93	33.94	6.02	34.05	100	0	Peak
9	6974.000	52.95	-21.05	74.00	43.99	35.13	6.35	32.52	100	0	Peak
10	6974.000	40.63	-13.37	54.00	31.67	35.13	6.35	32.52	120	177	Average
11	8622.000	55.54	-18.46	74.00	45.32	37.64	7.08	34.50	100	0	Peak
12	8622.000	44.36	-9.64	54.00	34.14	37.64	7.08	34.50	100	214	Average
13	11493.000	47.97	-26.03	74.00	86.15	-11.73	7.84	34.30	100	0	Peak
14	17238.000	42.93	-31.07	74.00	78.40	-11.11	9.44	33.80	100	0	Peak

Remark: #7 and #8 Fundamental Signal



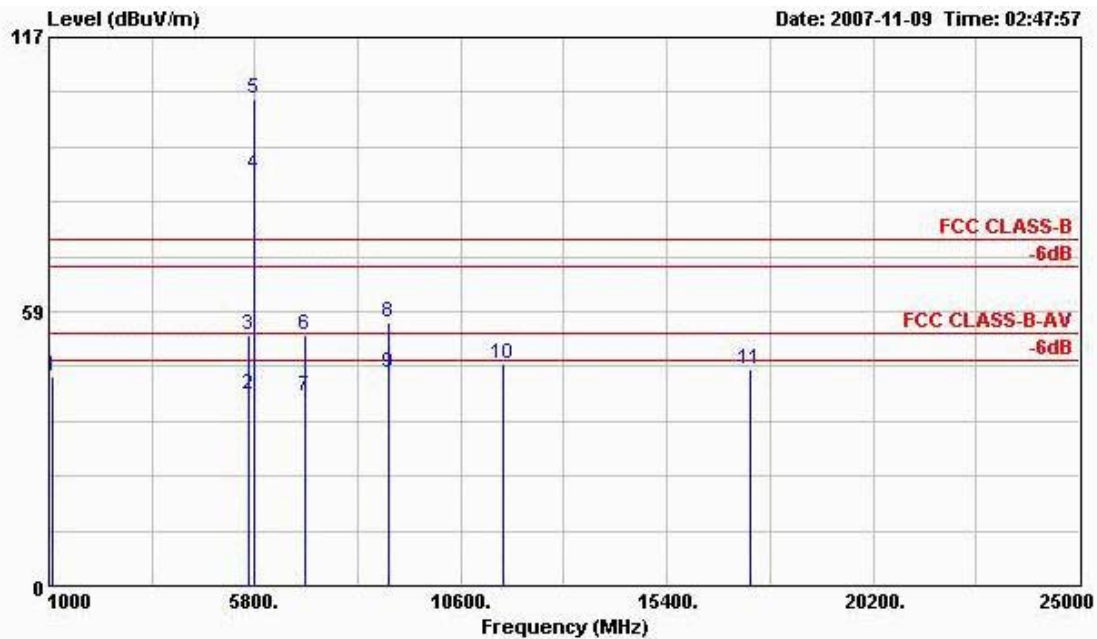
- Test Mode : Mode 8
- Polarization : Horizontal

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



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MOME : 11a Tx_Ch157;5785MHz
Data Rate: 9

	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	35.130	33.22	-6.78	40.00	44.28	16.29	0.91	28.26	---	---	Peak
2	38.370	35.97	-4.03	40.00	50.58	12.71	0.95	28.27	100	146	Peak
3	279.210	39.29	-6.71	46.00	52.35	12.42	2.16	27.64	---	---	Peak
4	304.200	34.89	-11.11	46.00	47.79	12.48	2.25	27.63	---	---	Peak
5	374.200	29.28	-16.72	46.00	40.03	14.88	2.49	28.12	---	---	Peak
6	960.100	30.47	-23.53	54.00	30.13	25.04	3.99	28.68	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MOM : 11a Tx_Ch157;5785MHz
Data Rate: 9

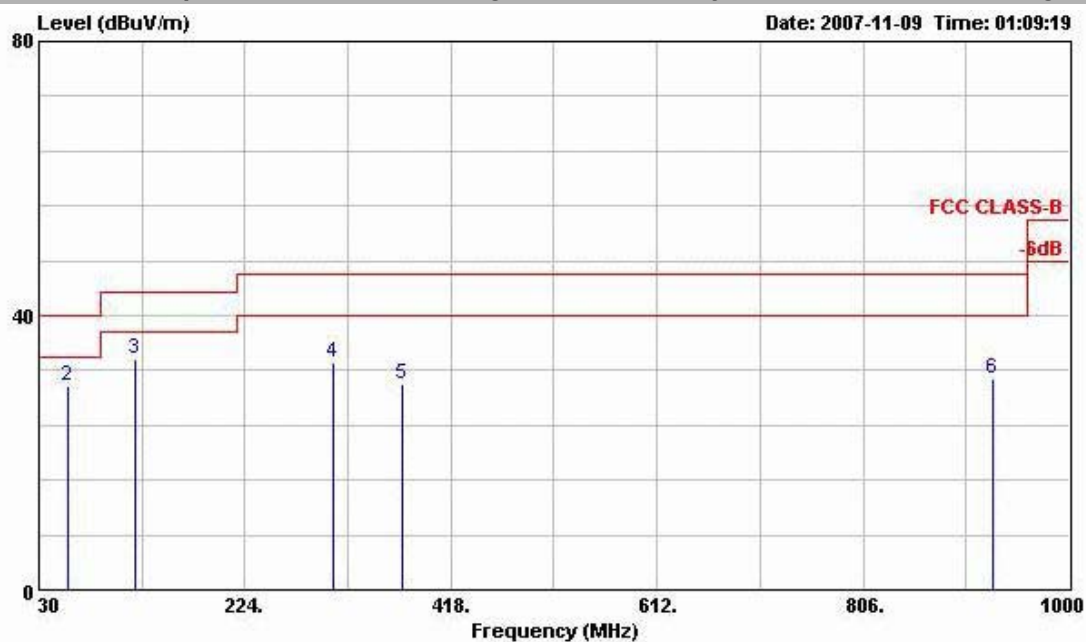
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1094.000	44.60	-29.40	74.00	52.26	24.27	2.34	34.26	100	0 Peak
2	5662.000	40.60	-13.40	54.00	34.76	33.89	6.02	34.07	117	340 Average
3	5662.000	53.48	-20.52	74.00	47.64	33.89	6.02	34.07	100	0 Peak
4 @	5785.000	87.74			81.79	33.97	6.02	34.04	117	340 Average
5 X	5785.000	103.97			98.02	33.97	6.02	34.04	100	0 Peak
6	6950.000	53.57	-20.43	74.00	44.67	35.10	6.34	32.54	100	0 Peak
7	6950.000	40.40	-13.60	54.00	31.50	35.10	6.34	32.54	117	340 Average
8	8934.000	56.20	-17.80	74.00	45.67	38.02	7.25	34.74	100	0 Peak
9	8934.000	45.47	-8.53	54.00	34.94	38.02	7.25	34.74	100	257 Average
10	11574.000	47.39	-26.61	74.00	85.36	-11.49	7.85	34.33	100	0 Peak
11	17358.000	46.30	-27.70	74.00	82.13	-11.61	9.54	33.76	100	0 Peak

Remark: #4 and #5 Fundamental Signal



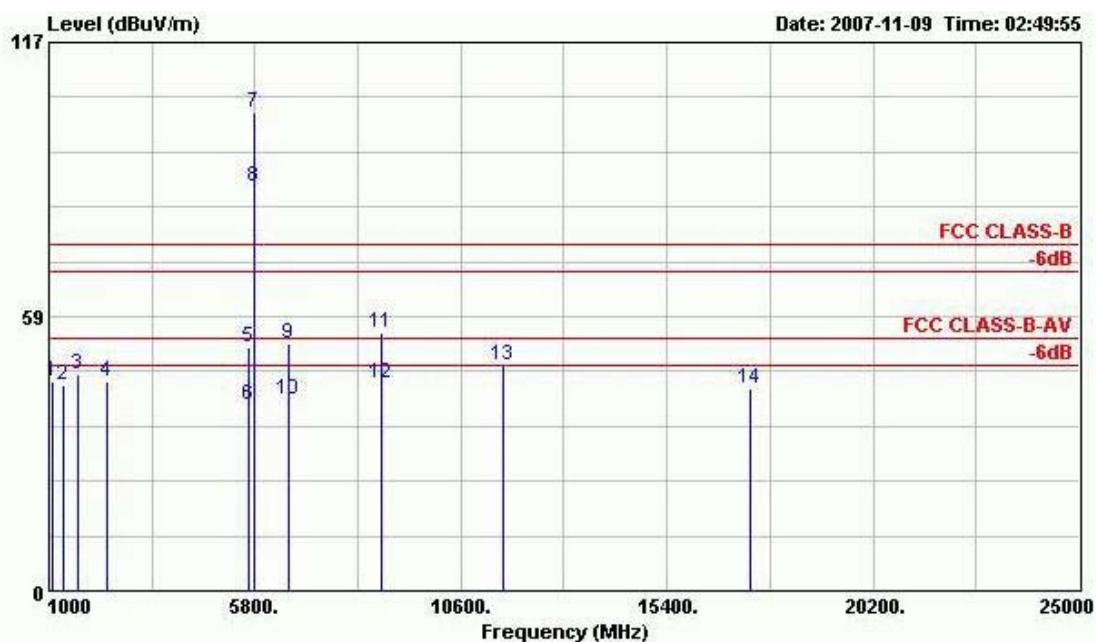
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MOME : 11a Tx_Ch157;5785MHz
 Data Rate: 9

	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	30.540	29.95	-10.05	40.00	40.97	16.36	0.87	28.25	---	---	Peak
2	57.540	29.79	-10.21	40.00	52.50	4.49	1.09	28.28	---	---	Peak
3	120.180	33.76	-9.74	43.50	49.67	10.74	1.47	28.12	100	168	Peak
4	307.700	33.27	-12.73	46.00	46.08	12.58	2.27	27.66	---	---	Peak
5	372.100	29.87	-16.13	46.00	40.68	14.81	2.48	28.11	---	---	Peak
6	928.600	30.77	-15.23	46.00	31.32	24.23	3.97	28.74	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MOM : 11a Tx_Ch157;5785MHz
Data Rate: 9

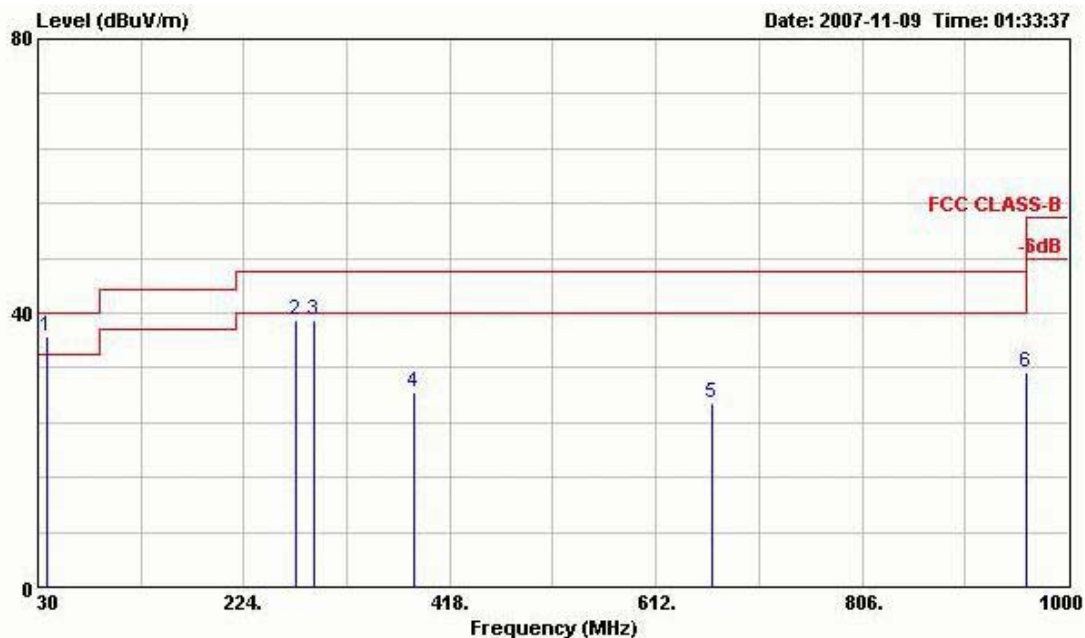
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1084.000	44.70	-29.30	74.00	52.44	24.22	2.34	34.30	100	0 Peak
2	1334.000	43.97	-30.03	74.00	50.42	24.90	2.60	33.95	100	0 Peak
3	1662.000	46.02	-27.98	74.00	50.82	25.93	2.97	33.70	100	0 Peak
4	2334.000	44.74	-29.26	74.00	46.90	27.92	3.69	33.77	100	0 Peak
5	5662.000	51.95	-22.05	74.00	46.11	33.89	6.02	34.07	100	0 Peak
6	5662.000	39.75	-14.25	54.00	33.91	33.89	6.02	34.07	146	9 Average
7 X	5785.000	102.10			96.15	33.97	6.02	34.04	100	0 Peak
8 @	5785.000	86.39			80.44	33.97	6.02	34.04	146	9 Average
9	6588.000	52.90	-21.10	74.00	45.14	34.37	6.23	32.84	100	0 Peak
10	6588.000	40.92	-13.08	54.00	33.16	34.37	6.23	32.84	146	9 Average
11	8742.000	54.99	-19.01	74.00	44.66	37.78	7.15	34.60	100	0 Peak
12	8742.000	44.21	-9.79	54.00	33.88	37.78	7.15	34.60	100	138 Average
13	11568.000	47.96	-26.04	74.00	85.92	-11.49	7.85	34.32	100	0 Peak
14	17358.000	42.92	-31.08	74.00	78.75	-11.61	9.54	33.76	100	0 Peak

Remark: #7 and #8 Fundamental Signal



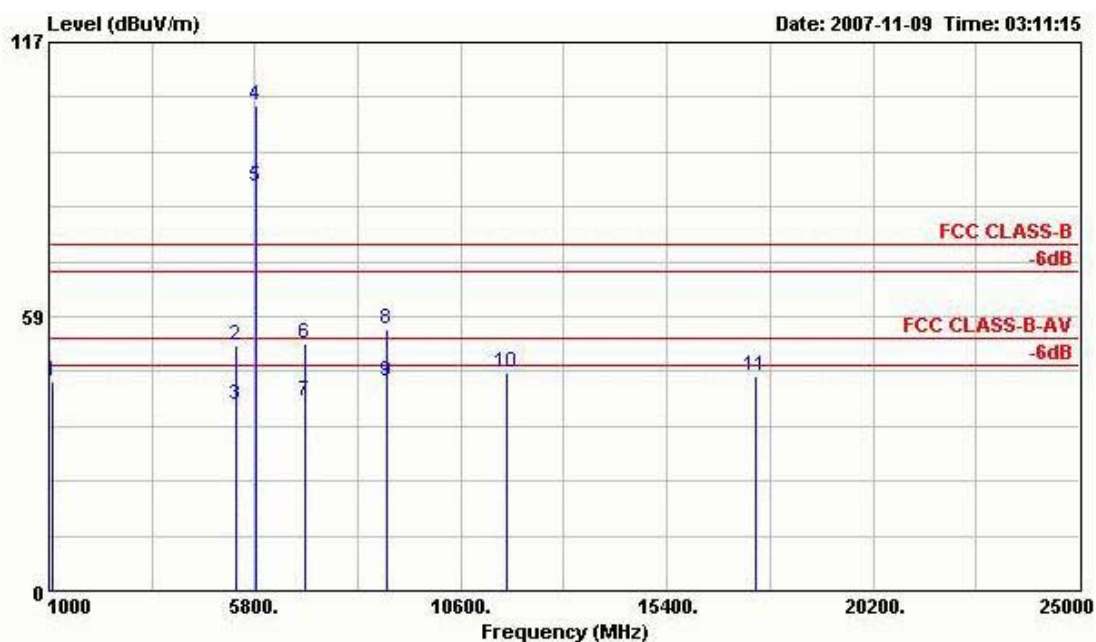
- Test Mode : Mode 9
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MOME : 11a Tx_Ch165;5825MHz
 Data Rate: 9

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 !	38.370	36.67	-3.33	40.00	51.28	12.71	0.95	28.27	100	187 Peak
2	273.540	38.99	-7.01	46.00	52.06	12.45	2.14	27.65	---	Peak
3	290.010	39.01	-6.99	46.00	52.06	12.36	2.21	27.62	---	Peak
4	383.300	28.30	-17.70	46.00	38.78	15.18	2.52	28.18	---	Peak
5	665.400	26.74	-19.26	46.00	32.34	20.06	3.45	29.10	---	Peak
6	960.100	31.31	-22.69	54.00	30.97	25.04	3.99	28.68	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MOM : 11a Tx_Ch165;5825MHz
Data Rate: 9

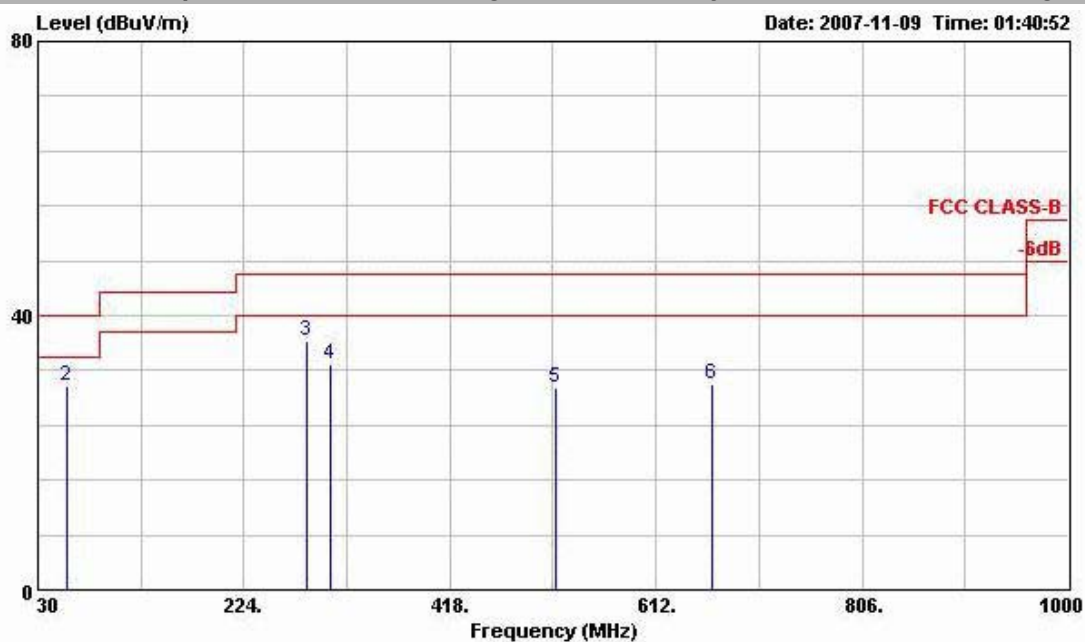
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1100.000	44.66	-29.34	74.00	52.32	24.27	2.34	34.26	100	0 Peak
2	5342.000	52.20	-21.80	74.00	46.76	33.60	6.00	34.16	100	0 Peak
3	5342.000	39.52	-14.48	54.00	34.08	33.60	6.00	34.16	100	9 Average
4 X	5825.000	103.65			97.67	34.00	6.02	34.04	100	0 Peak
5 @	5825.000	86.34			80.36	34.00	6.02	34.04	100	9 Average
6	6958.000	52.68	-21.32	74.00	43.76	35.10	6.34	32.52	100	0 Peak
7	6958.000	40.50	-13.50	54.00	31.58	35.10	6.34	32.52	100	9 Average
8	8876.000	55.62	-18.38	74.00	45.17	37.94	7.21	34.70	100	0 Peak
9	8876.000	44.54	-9.46	54.00	34.09	37.94	7.21	34.70	100	114 Average
10	11646.000	46.59	-27.41	74.00	84.23	-11.14	7.86	34.35	100	0 Peak
11	17478.000	45.96	-28.04	74.00	82.14	-12.12	9.64	33.71	100	0 Peak

Remark: #4 and #5 Fundamental Signal



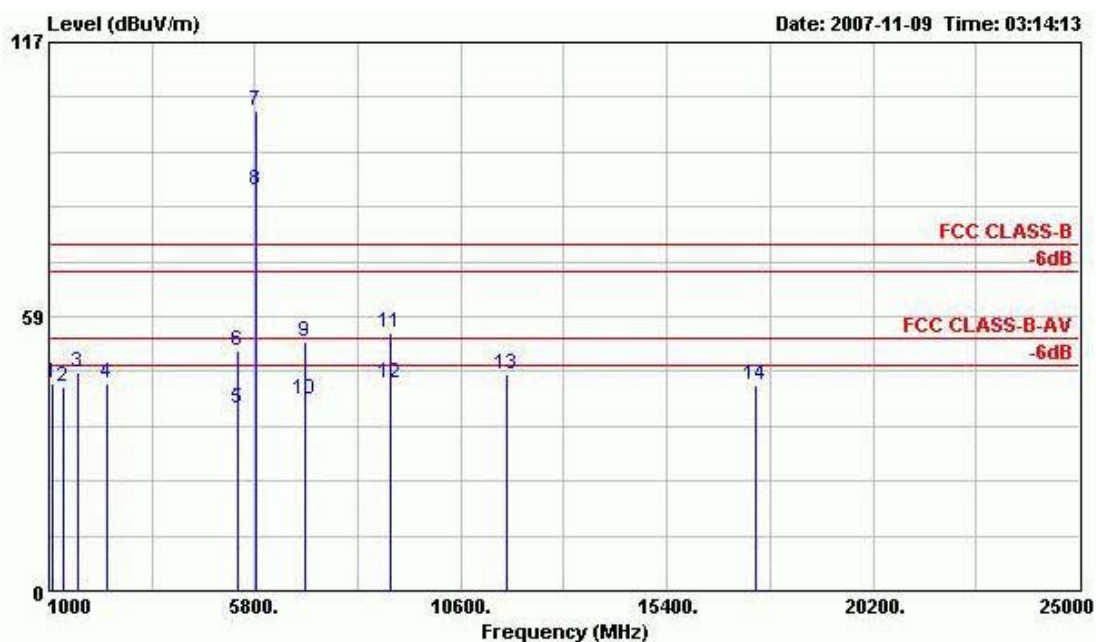
- Polarization : Vertical

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MOME : 11a Tx_Ch165;5825MHz
 Data Rate: 9

	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	30.540	29.25	-10.75	40.00	40.27	16.36	0.87	28.25	---	---	Peak
2	57.540	29.66	-10.34	40.00	52.37	4.49	1.09	28.28	---	---	Peak
3	283.260	36.27	-9.73	46.00	49.33	12.40	2.18	27.63	100	117	Peak
4	304.900	32.80	-13.20	46.00	45.70	12.48	2.26	27.63	---	---	Peak
5	517.700	29.50	-16.50	46.00	38.21	17.43	2.88	29.02	---	---	Peak
6	665.400	29.98	-16.02	46.00	35.58	20.06	3.45	29.10	---	---	Peak



Site : 03CH04-HY
Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 701819
MOME : 11a Tx_Ch165;5825MHz
Data Rate: 9

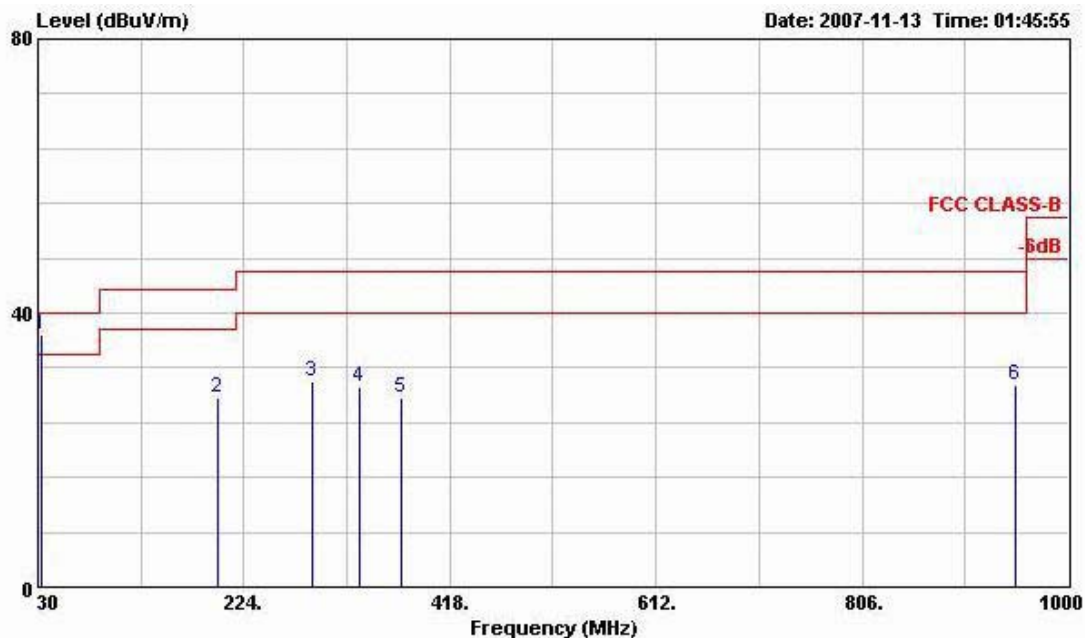
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1094.000	44.22	-29.78	74.00	51.88	24.27	2.34	34.26	100	0 Peak
2	1332.000	43.37	-30.63	74.00	49.82	24.90	2.60	33.95	100	0 Peak
3	1668.000	46.50	-27.50	74.00	51.30	25.93	2.97	33.70	100	0 Peak
4	2334.000	44.11	-29.89	74.00	46.27	27.92	3.69	33.77	100	0 Peak
5	5420.000	38.79	-15.21	54.00	33.21	33.70	6.01	34.13	127	8 Average
6	5420.000	51.04	-22.96	74.00	45.46	33.70	6.01	34.13	100	0 Peak
7 X	5825.000	102.54			96.56	34.00	6.02	34.04	100	0 Peak
8 @	5825.000	85.36			79.38	34.00	6.02	34.04	127	8 Average
9	6982.000	53.23	-20.77	74.00	44.21	35.17	6.35	32.50	100	0 Peak
10	6982.000	40.65	-13.35	54.00	31.63	35.17	6.35	32.50	127	8 Average
11	8974.000	55.20	-18.80	74.00	44.66	38.06	7.26	34.78	100	0 Peak
12	8974.000	44.12	-9.88	54.00	33.58	38.06	7.26	34.78	100	131 Average
13	11654.000	46.17	-27.83	74.00	83.82	-11.14	7.86	34.36	100	0 Peak
14	17478.000	44.05	-29.95	74.00	80.23	-12.12	9.64	33.71	100	0 Peak

Remark: #7 and #8 Fundamental Signal



- Test Mode : Mode 10
- Polarization : Horizontal

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



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : N/B
 POWER : 120Vac/60Hz
 MODEL : FR 701819
 MEMO : 11n(g) TX(20M)_CH01;2412MHz
 Data Rate: 48

	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 @	32.700	36.97	-3.03	40.00	48.01	16.33	0.90	28.26	100	285 Peak	
2	199.290	27.52	-15.98	43.50	44.73	8.72	1.88	27.80	---	---	Peak
3	287.850	29.88	-16.12	46.00	42.94	12.37	2.19	27.62	---	---	Peak
4	332.200	29.20	-16.80	46.00	41.23	13.45	2.35	27.82	---	---	Peak
5	372.100	27.64	-18.36	46.00	38.45	14.81	2.48	28.11	---	---	Peak
6	951.000	29.50	-16.50	46.00	29.42	24.79	3.98	28.70	---	---	Peak