



FCC/IC TEST REPORT

for

47 CFR Part 15 Subpart C and IC RSS-210

Equipment : PDA Phone
Trade Name : palm
Model No. : Treo 800w
FCC ID : O8F-715
IC ID : 3905A-715
Filing Type : Certification
Applicant : **Palm, Inc.**
950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

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- The data shown in this test report were carried out on Apr. 19, 2007 at **Sporton International Inc. LAB.**
- Report No.: FR741601B, Report Version: Rev. 01

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Report Version: Rev. 01



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History of this test report

Report Issue Date: Jun. 20, 2007

Report No.	Description



1. General Description of Equipment under Test

1.1 Applicant

Palm, Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

1.2 Manufacturer

Palm, Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

1.3 Basic Description of Equipment under Test

Equipment	: PDA Phone
Trade Name	: palm
Model No.	: Treo 800w
FCC ID	: O8F-715
IC ID	: 3905A-715
Power Supply Type	: From battery 3.7V
AC Power Cord	: AC 120V, Wall-mount, 1.8 meter, 2 pin
LCD Panel 1	: Samsung, TP246QV-B01
LCD Panel 2	: Sharp, LS0DAS0752
LCD Panel 3	: Sony, ACX551AKM-8
Adapter 1	: Netbit, DSC-5PNL-05 050100
Adapter 2	: PIE, P005WA05WW
Battery	: 157-10079-00

1.4 Feature of Equipment under Test

Product Feature & Specification	
1. DUT Type	PDA Phone
2. Trade Name	palm
3. Model Name	Treo 800w
4. FCC ID	O8F-715
5. Tx Frequency	Bluetooth : 2400 ~ 2483.5 MHz WLAN : 2400 ~ 2483.5 MHz
6. Rx Frequency	Bluetooth : 2400 ~ 2483.5 MHz WLAN : 2400 ~ 2483.5 MHz
7. Number of Channels	Bluetooth : 79 WLAN : 11
8. Carrier Frequency of Each Channel	Bluetooth : 2402+n*1 MHz; n=0~78 WLAN : 2412+(n-1)*5 MHz; n=1~11
9. Antenna Connector	N/A
10. Antenna Type	PIFA Antenna
11. Antenna Gain	Bluetooth: 0.5 dBi WLAN: 0.5 dBi
12. Maximum Output Power	Bluetooth : -2.46 dBm 802.11b : 15.04 dBm / 802.11g : 16.21 dBm
13. Type of Modulation	Bluetooth : GFSK WLAN : DSSS / OFDM
14. DUT Stage	DVT
15. Application Type	Certification



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. For spurious emission below 1GHz, only one channel of each application was tested because it is not related to channel selection.
- c. The EUT is programmed to transmit signal continuously for all testings.
- d. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

2.2 Test Mode

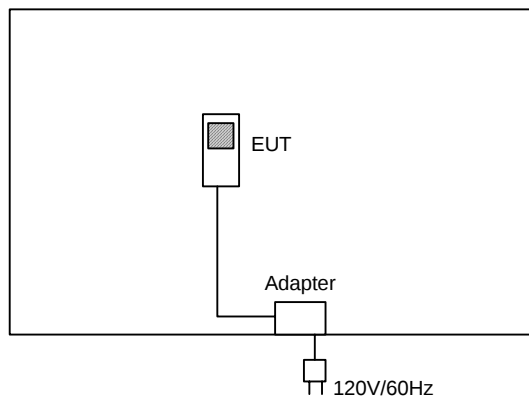
Application	
Radiated Emission	BT
	Mode 1: Tx_CH00_2402 MHz
	Mode 2: Tx_CH39_2441 MHz
	Mode 3: Tx_CH78_2480 MHz
Conducted Emission	Mode 1: PDA with LCD 1 + CDMA2000 Cellular Idle Mode + BT Link + WLAN Link + Camera + MPEG4 + Adapter 1
	Mode 2: PDA with LCD 1 + CDMA2000 Cellular Idle Mode + BT Link + WLAN Link + Camera + MPEG4 + Adapter 2
	Mode 3: PDA with LCD 1 + CDMA2000 Cellular Idle Mode + BT Link + WLAN Link + USB Link + Camera + MPEG4
	Mode 4: PDA with LCD 2 + CDMA2000 Cellular Idle Mode + BT Link + WLAN Link + Camera + MPEG4 + Adapter 1
	Mode 5: PDA with LCD 3 + CDMA2000 Cellular Idle Mode + BT Link + WLAN Link + Camera + MPEG4 + Adapter 1
	Mode 6: PDA with LCD 3 + CDMA2000 PCS Idle Mode + BT Link + WLAN Link + Camera + MPEG4 + Adapter 1
	Adapter 1

Note:

1. Before conducted emission testing, the battery energy is lower 20% energy level, so as to being tested at worst situation.
2. The LCD Panel 3, Sony, ACX551AKM-8, is used for radiated emission testing.

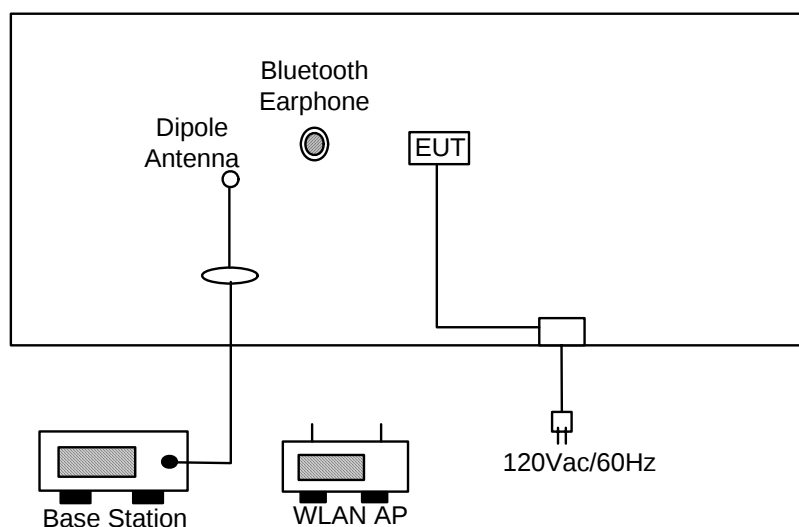
2.3 Connection Diagram of Test System

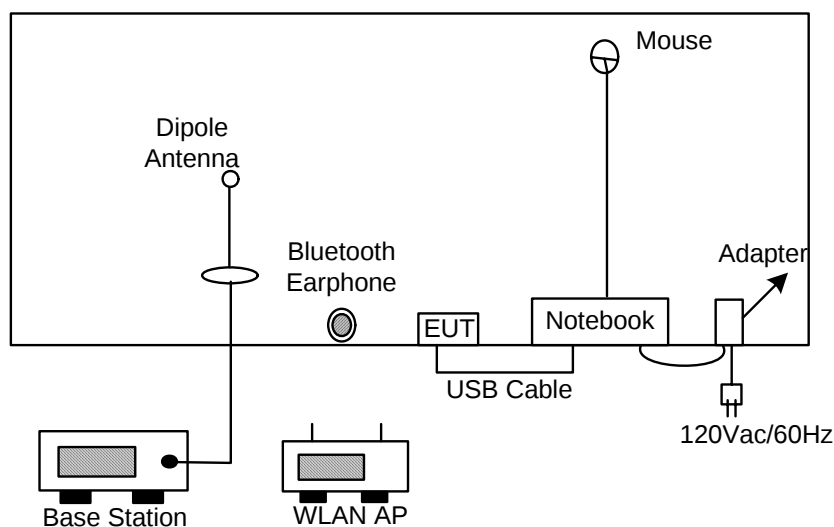
<Radiated Emission>



<Conducted Emission>

Phone with Adapter Link Mode



Phone with USB Link Mode

2.4 Ancillary Equipment List

Item	Asset	Model Name	FCC ID	Power Cord
1.	Base Station (R&S)	CMU 200	N/A	N/A
2.	Notebook (DELL)	D400	E2K24GBRL	N/A
3.	RS232 Mouse (State)	MS-303	N/A	Aluminum Foil-shielded, 1.2m
4.	Bluetooth Earphone (Engotech)	ET-BH111	PQY471087	N/A
5.	USB Cable	N/A	N/A	Shielded, 1.7m
6.	WLAN AP (SMC)	SMC-100	HEDWG4005ACC	N/A



3. RF Utility

The EUT is linked with BT earphone and WLAN AP for conducted emission or in BT continuous Tx mode controlled by RF utility and base station simulator or in WLAN continuous Tx mode controlled by RF utility for radiation emission and other conducted tests.

- 1 .The EUT was placed in either continuous transmit or continuous receive mode for Bluetooth (BT) and WLAN function by a program (BT Uart) provided by the manufacturer .
2. The EUT at cellular phone's idle mode was synchronized to base station simulator which is located outside of chamber, and was linked with BT earphone and WLAN AP for conducted emission .



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 : 886-3-318-0055
Test Site No : CO04-HY, 03CH06-HY

4.1 Test Voltage

120V/ 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test in Compliance with

47 CFR Part 15 Subpart C and IC RSS-210 Issued 6

4.4 Frequency Range Investigated

- a. Conducted Emission : from 150 KHz to 30 MHz
- b. Radiated Emission : 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: Bluetooth

FCC Rule	IC Rule	Description of Test	Result
15.207	RSS-Gen 7.2.2	Conducted Emission	Pass
15.247(a) (1)	A8.1 (1)	Hopping Channel Bandwidth	Pass
15.247(a)(1)	A8.1 (2)	Hopping Channel Separation	Pass
15.247(a)(1)(iii)	A8.1 (4)	Number of Hopping Frequency Used	Pass
15.247(a)(1)(iii)	A8.1 (4)	Dwell Time of Each Frequency	Pass
15.247(b)	A8.4 (2)	Output Power	Pass
15.247(c)	A8.5	100kHz Bandwidth of Frequency Band Edges	Pass
15.209(a)	2.6	Radiated Emission	Pass
15.203 15.247(b)(4)	A8.4 (6)	Antenna Requirement	Pass



5.2 Band Edges 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 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.

5.2.3 Test Result :

- Application Type : Bluetooth
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : Anderson

- Test Result in BT lower band (Channel 00) : PASS
- Test Result in BT higher band (Channel 78) : PASS

**5.2.4 Note on Band Edge Emission :**

➤BT

CH00 (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/m)	(dB)	(dB)	(cm)	(deg)	
2341.1	48.42	-25.58	74.00	49.93	30.23	3.66	35.40	100	0	Peak
2341.1	39.01	-14.99	54.00	40.49	30.24	3.71	35.42	100	43	Average

CH00 (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/m)	(dB)	(dB)	(cm)	(deg)	
2389.8	49.13	-24.87	74.00	50.59	30.25	3.73	35.44	100	0	Peak
2389.8	39.34	-14.66	54.00	40.79	30.26	3.75	35.46	100	278	Average

CH78 (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/m)	(dB)	(dB)	(cm)	(deg)	
2483.50	57.75	-16.25	74.00	59.11	30.29	3.86	35.51	100	0	Peak
2483.50	48.03	-5.97	54.00	49.39	30.29	3.86	35.51	100	4	Average

CH78 (Vertical)

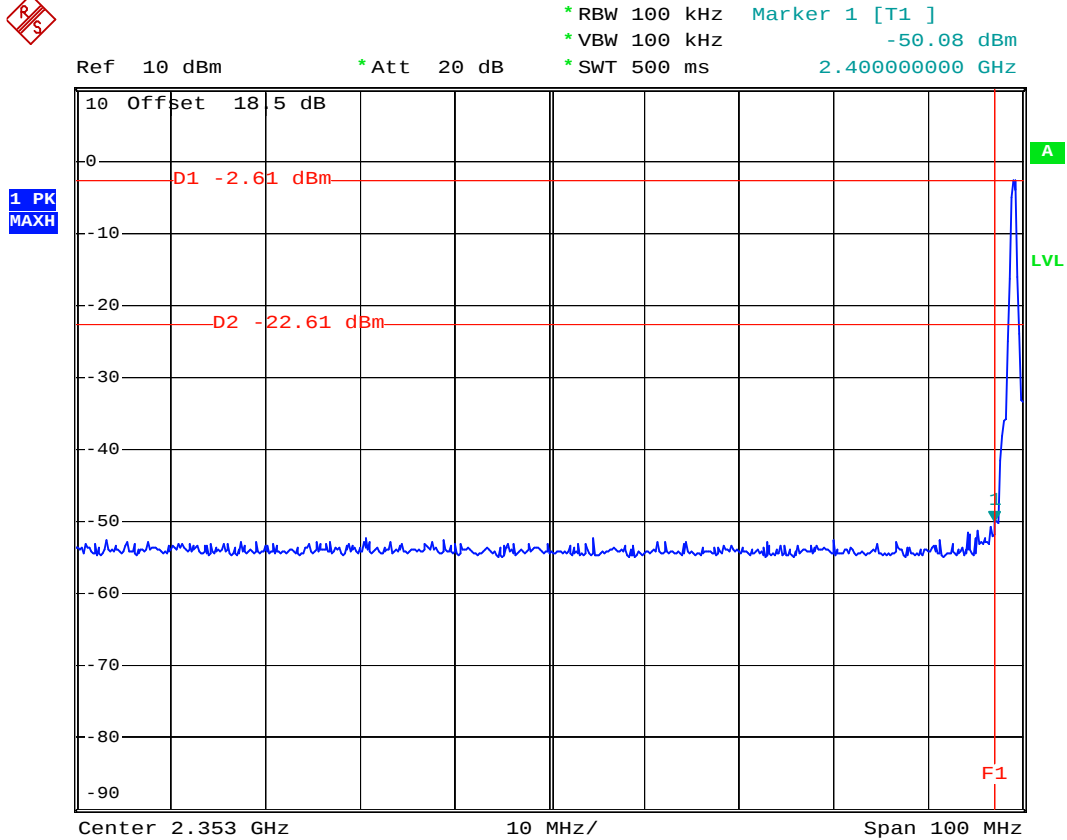
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	
2483.50	63.15	-10.85	74.00	64.51	30.29	3.86	35.51	100	0	Peak
2483.50	46.68	-7.32	54.00	48.04	30.29	3.86	35.51	100	274	Average



5.2.5 20dB Band Edge

Bluetooth

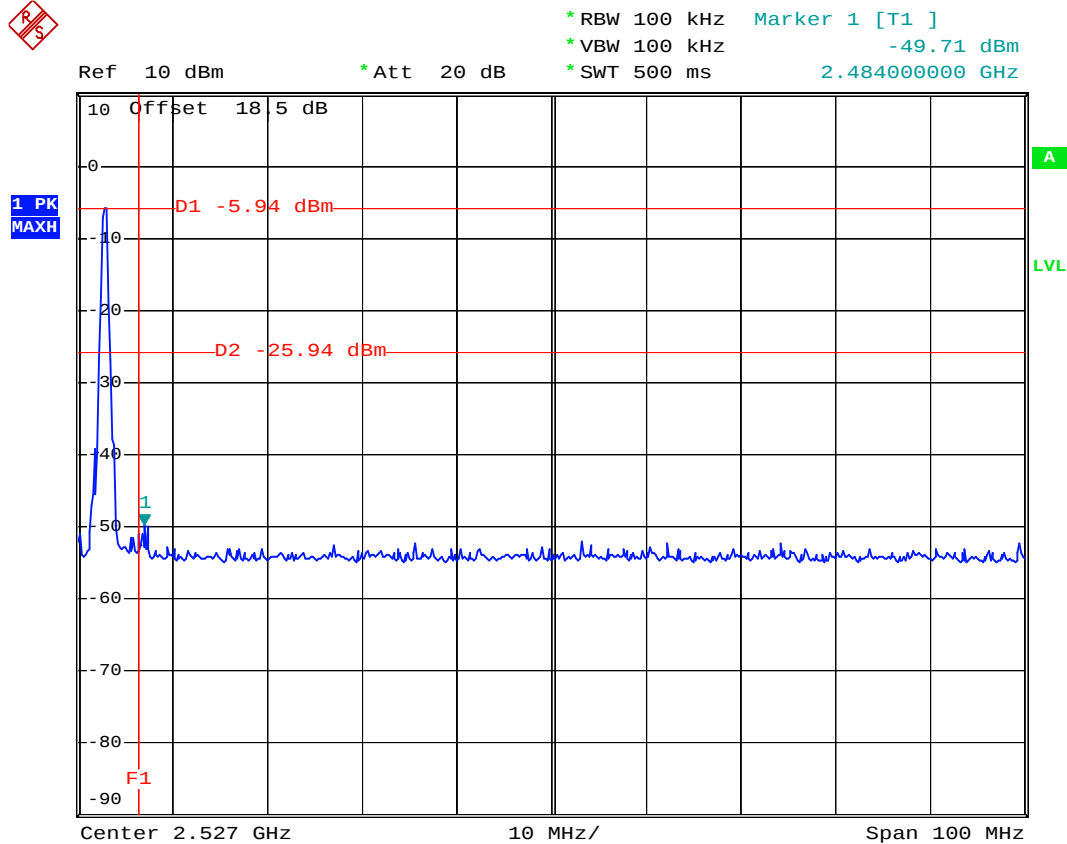
CH00



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CH78



Date: 30.JAN.2007 22:15:36

5.3 Hopping Channel Separation

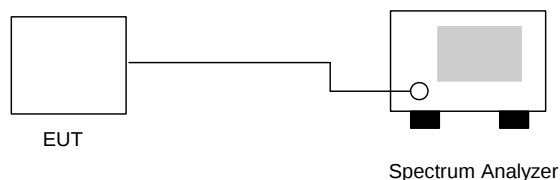
5.3.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.3.2 Test Procedure :

1. The output of EUT was connected to the spectrum analyzer by a low loss cable..
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The Hopping Channel Separation is defined as the channel is separated with the next channel.

5.3.3 Test Setup Layout :



5.3.4 Test Result : The spectrum analyzer plots are attached as below

- Application Type : Bluetooth
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : James

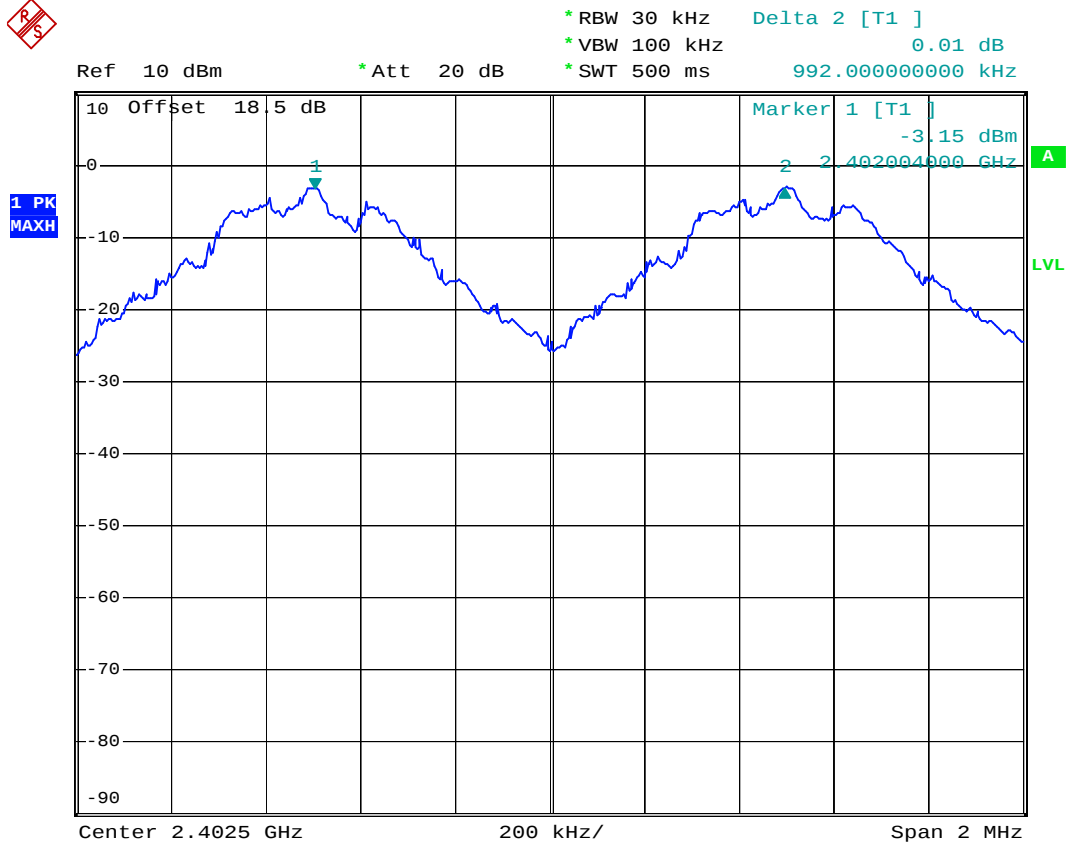
Channel	Carrier Frequency		Limits	Plot
	Frequency (MHz)	Separation (MHz)		
00	2402	0.992	0.884	Mode 1
39	2441	1.020	0.918	Mode 2
78	2480	1.008	0.912	Mode 3

Note: Limits =25kHz or the 20dB bandwidth of the hopping channel, which ever is greater



5.3.5 Hopping Channel Separation

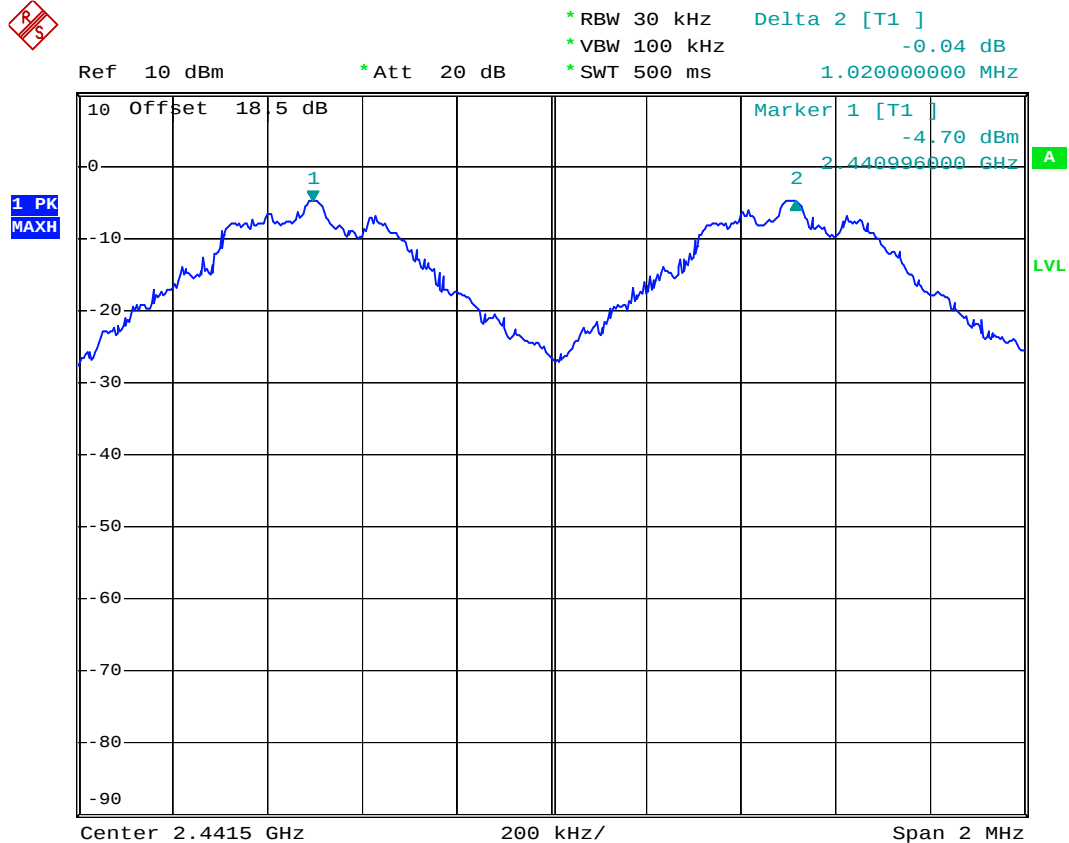
Mode 1



Date: 30.JAN.2007 22:20:30



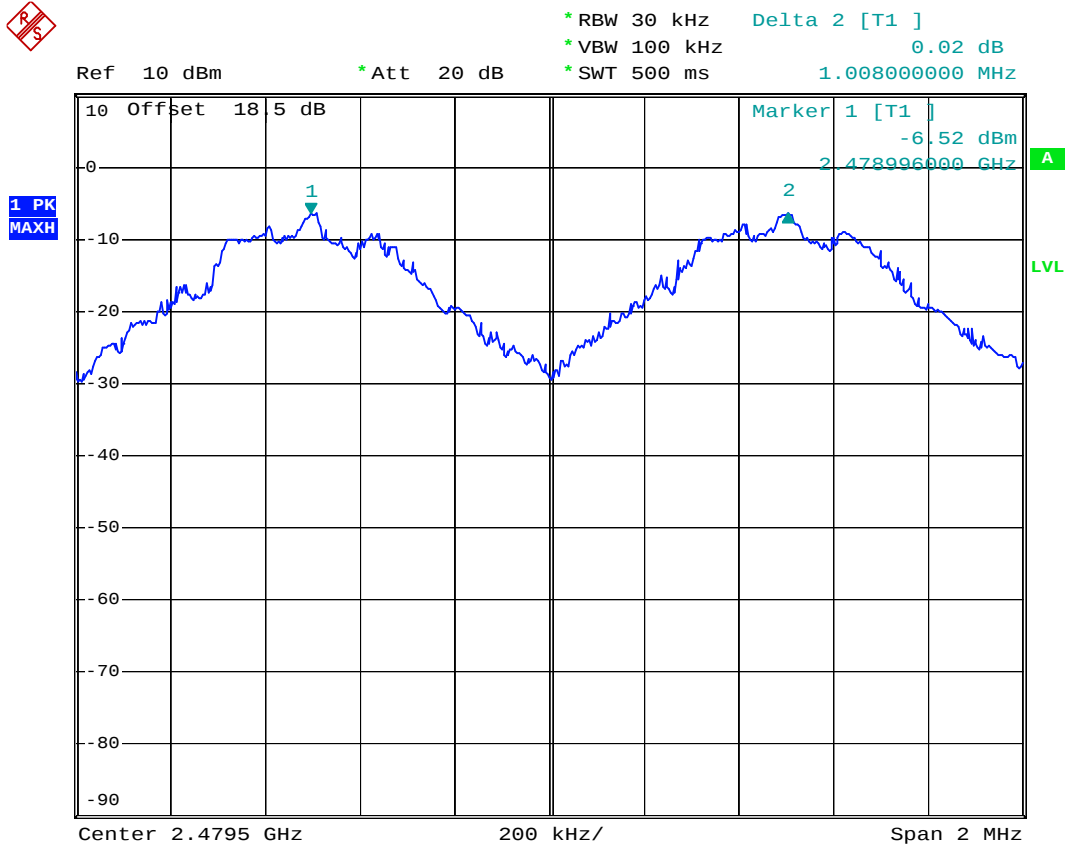
Mode 2



Date: 30.JAN.2007 22:21:24



Mode 3



Date: 30.JAN.2007 22:21:59

5.4 Number of Hopping Frequency

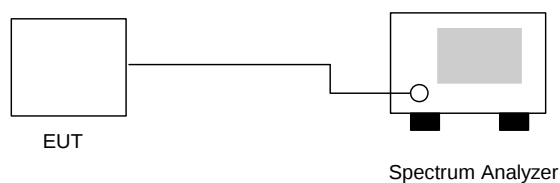
5.4.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.4.2 Test Procedure :

1. The output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The number of hopping frequency used is defined as the device has the numbers of total channel.

5.4.3 Test Setup Layout :



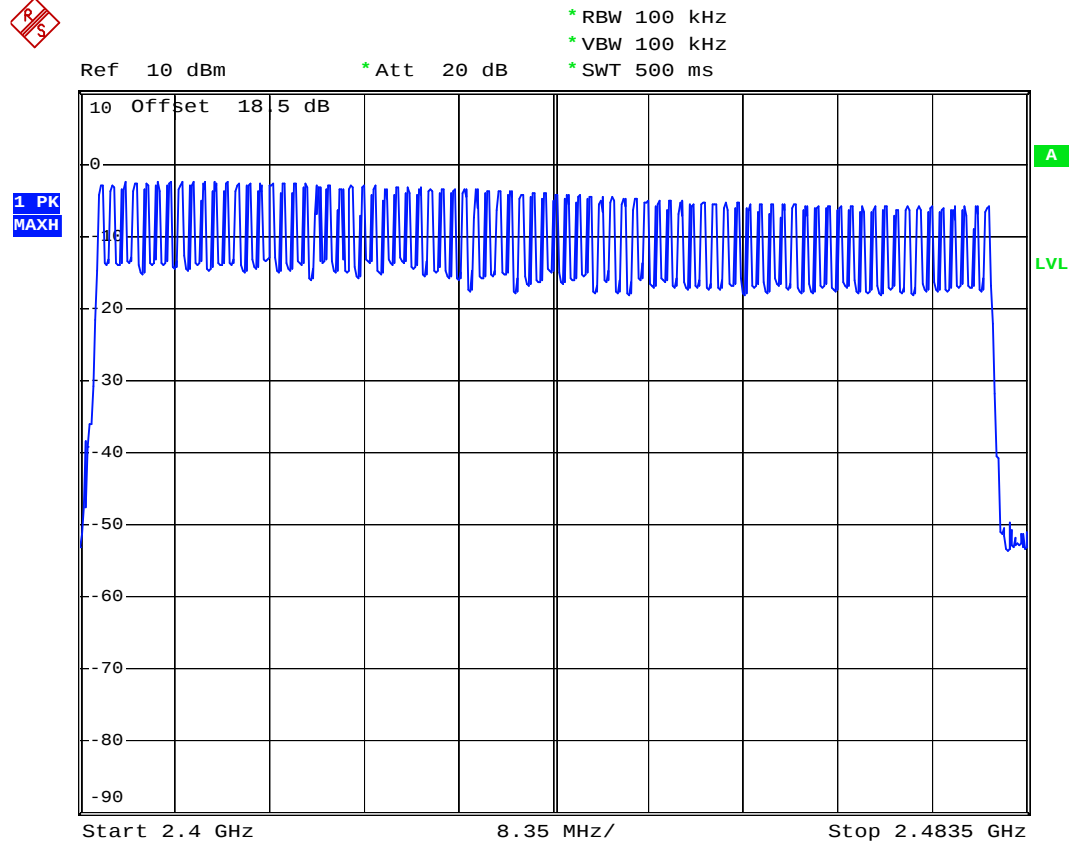
5.4.4 Test Result : See spectrum analyzer plots below

- Application Type : Bluetooth
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : James

Number of Hopping Frequency (Channel)	Limits (Channel)
79	15



5.4.5 Number of Hopping Frequency



Date: 30.JAN.2007 22:50:46

5.5 Hopping Channel Bandwidth

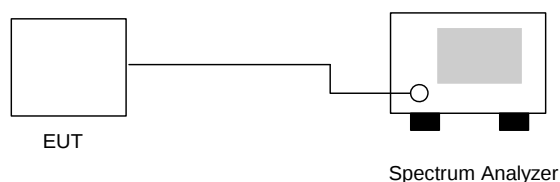
5.5.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.5.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer by a low loss cable.
2. Set RBW of spectrum analyzer to 30kHz and VBW to 300kHz.
3. The Hopping Channel bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

5.5.3 Test Setup Layout :



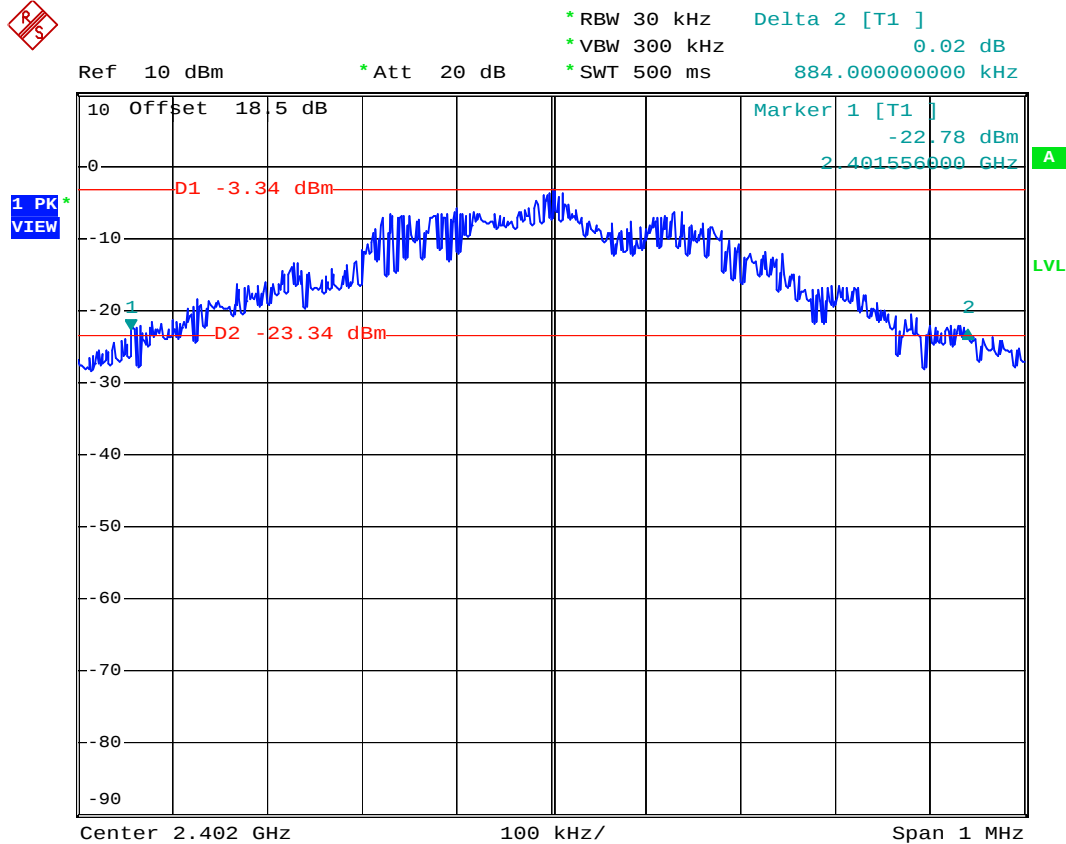
5.5.4 Test Result : See spectrum analyzer plots below

- Application Type : Bluetooth
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : James

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	0.884	1.000	Mode 1
39	2441	0.918	1.000	Mode 2
78	2480	0.912	1.000	Mode 3

**5.5.5 Hopping Channel Bandwidth**

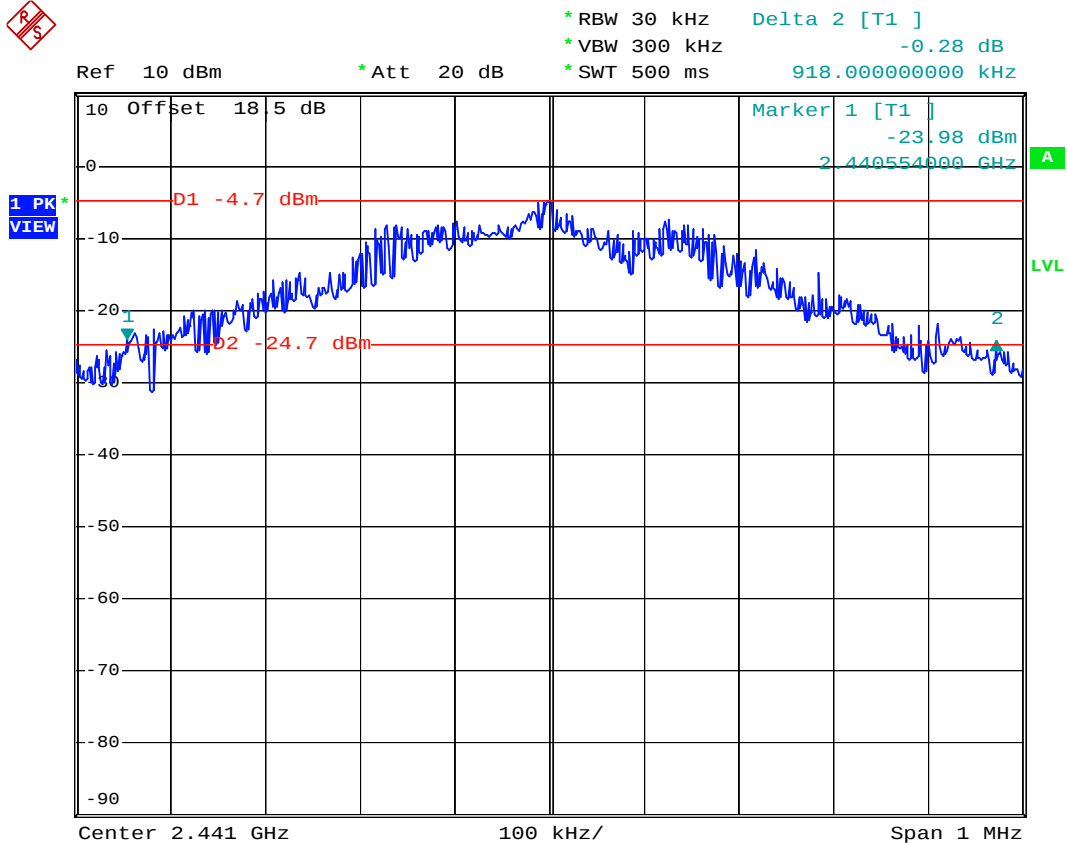
Mode 1



Date: 30.JAN.2007 22:02:39



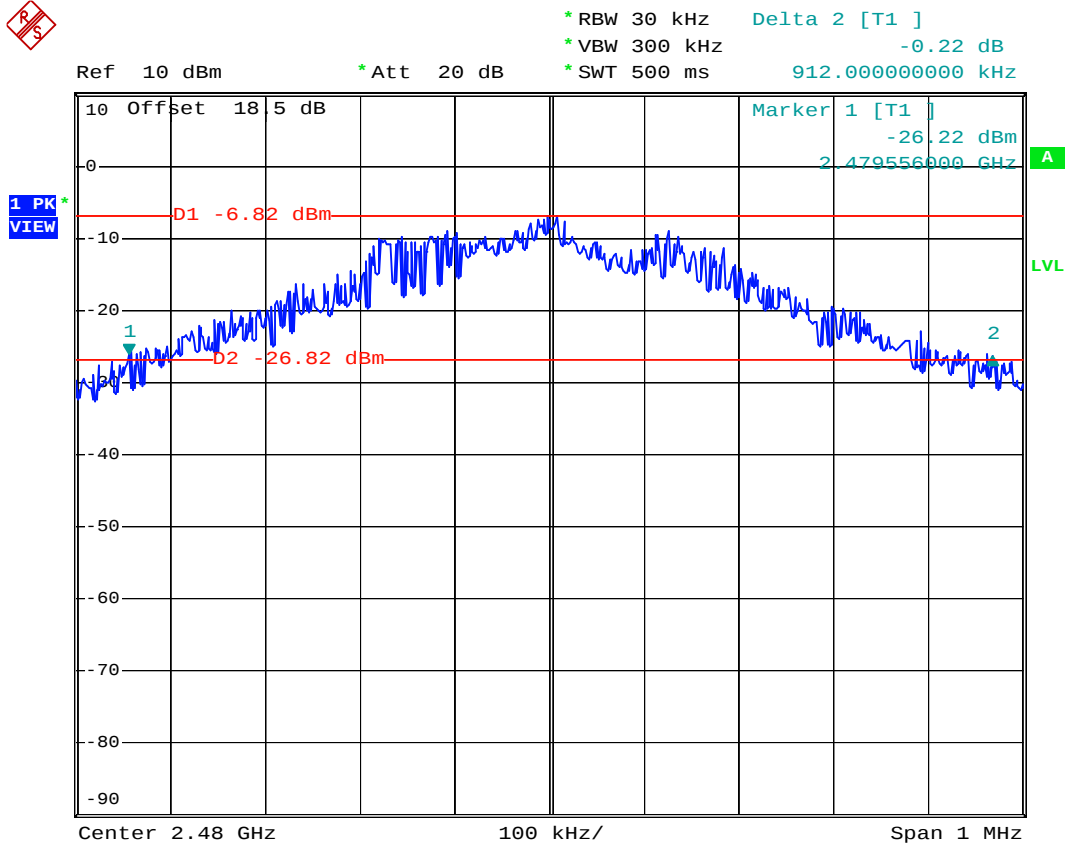
Mode 2



Date: 30.JAN.2007 22:06:15



Mode 3



Date: 30.JAN.2007 22:09:30

5.6 Dwell Time of Each Frequency

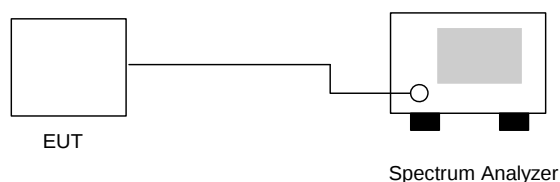
5.6.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.6.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer by a low loss cable.
2. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
3. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
4. The calculate $= 79 * 0.4 * (1600/79) * t$ (t = the time duration of one single pulse)

5.6.3 Test Setup Layout :



5.6.4 Test Result : See spectrum analyzer plots below

- Application Type : Bluetooth
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : James

Ch00

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	9.1	433	0.125	0.4
DH3	4.5	1723	0.245	0.4
DH5	2.9	2943	0.270	0.4

**CH39**

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	8.7	433	0.119	0.4
DH3	4.3	1733	0.235	0.4
DH5	3.2	2983	0.302	0.4

CH78

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	9.5	433	0.130	0.4
DH3	4.9	1723	0.267	0.4
DH5	3.1	2983	0.292	0.4

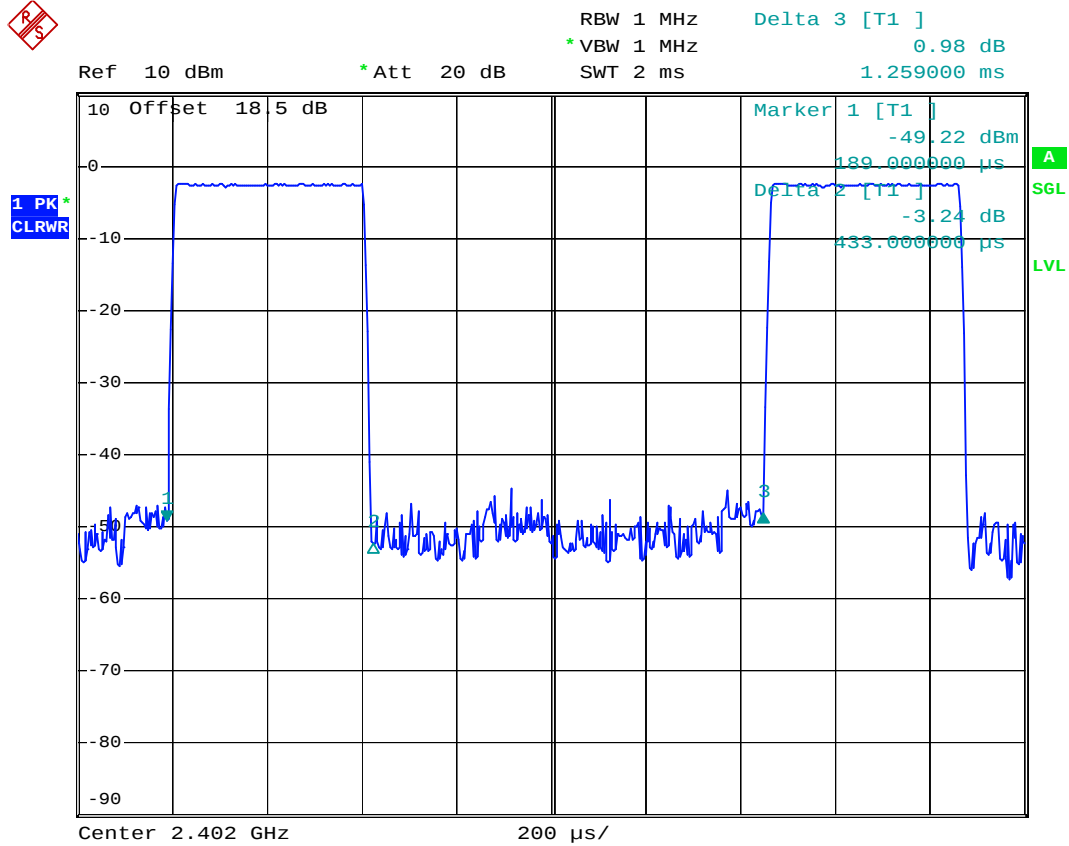
Remark:

1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
2. 79channels come from the Hopping Channel number.
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)



5.6.5 Dwell Time

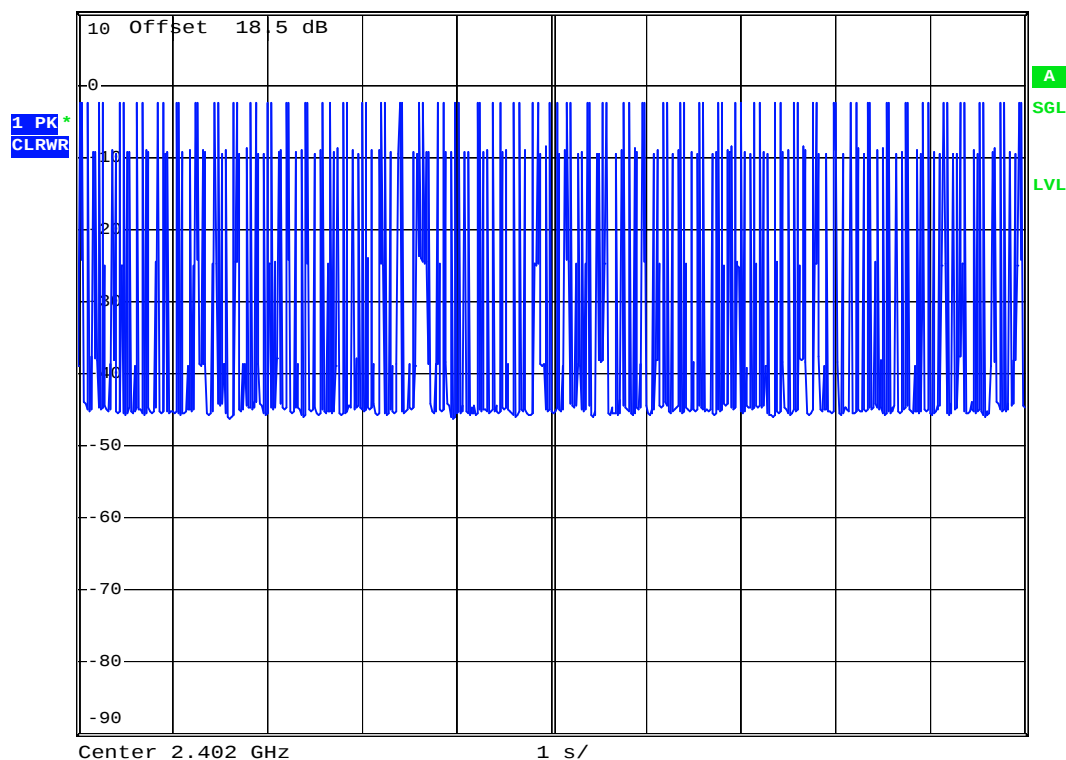
DH1 (CH00)



Date: 30.JAN.2007 22:25:08



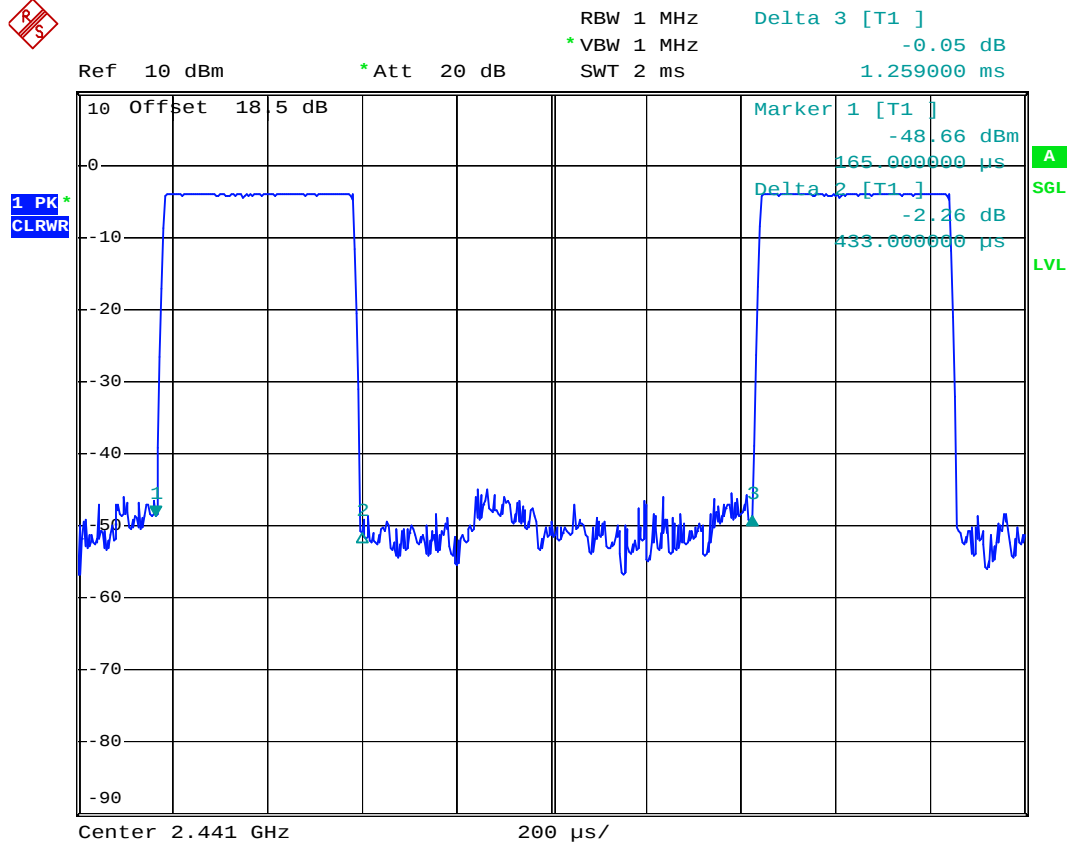
Ref 10 dBm * Att 20 dB RBW 1 MHz
* VBW 1 MHz SWT 10 s



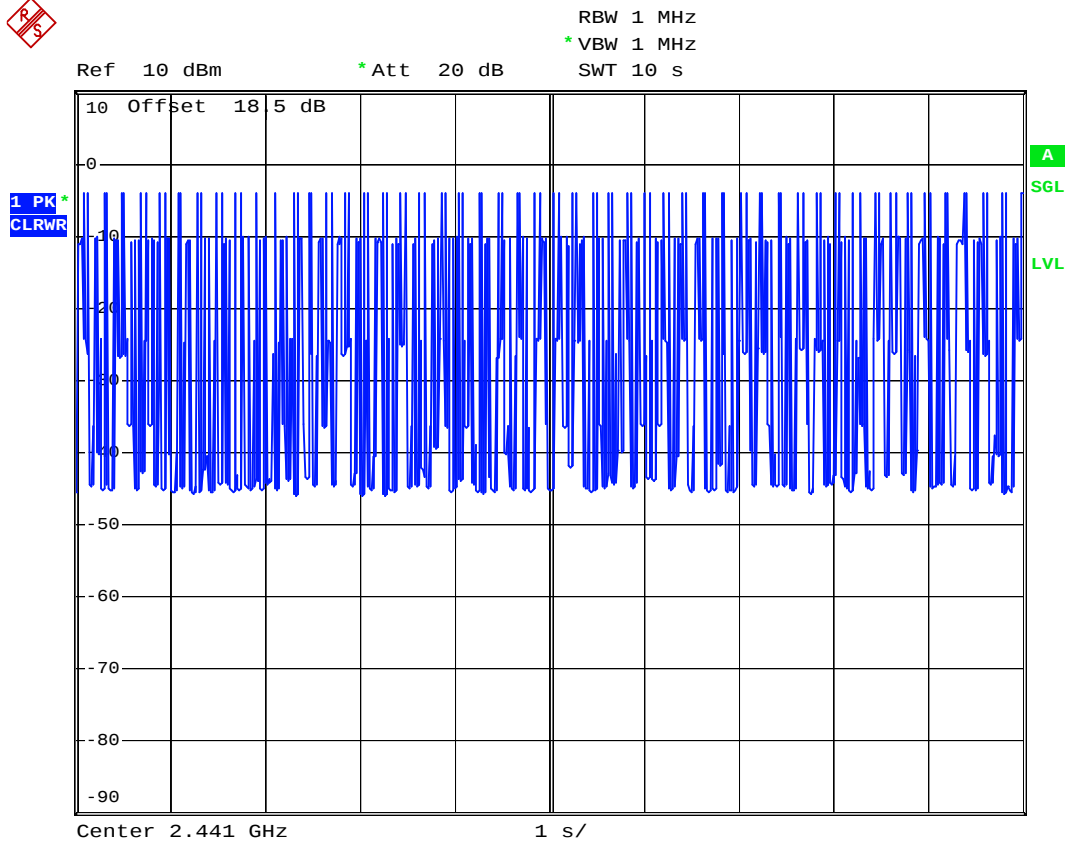
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DH1 (CH39)



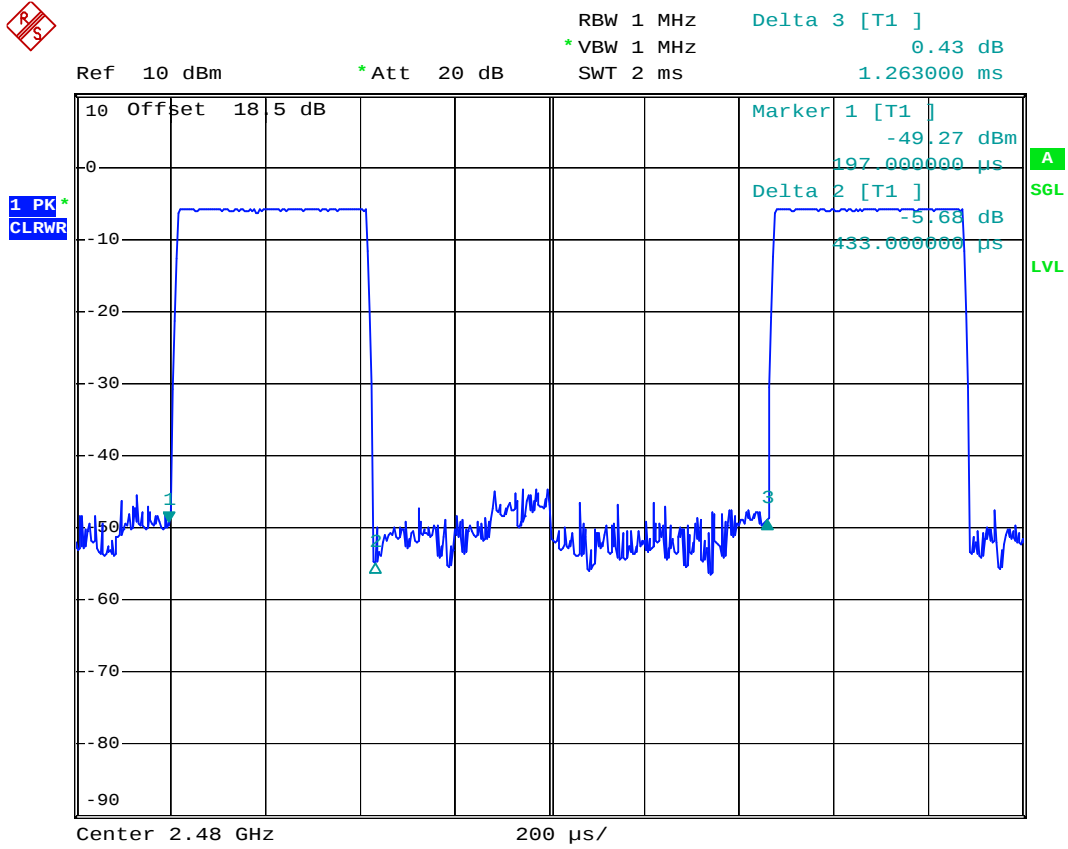
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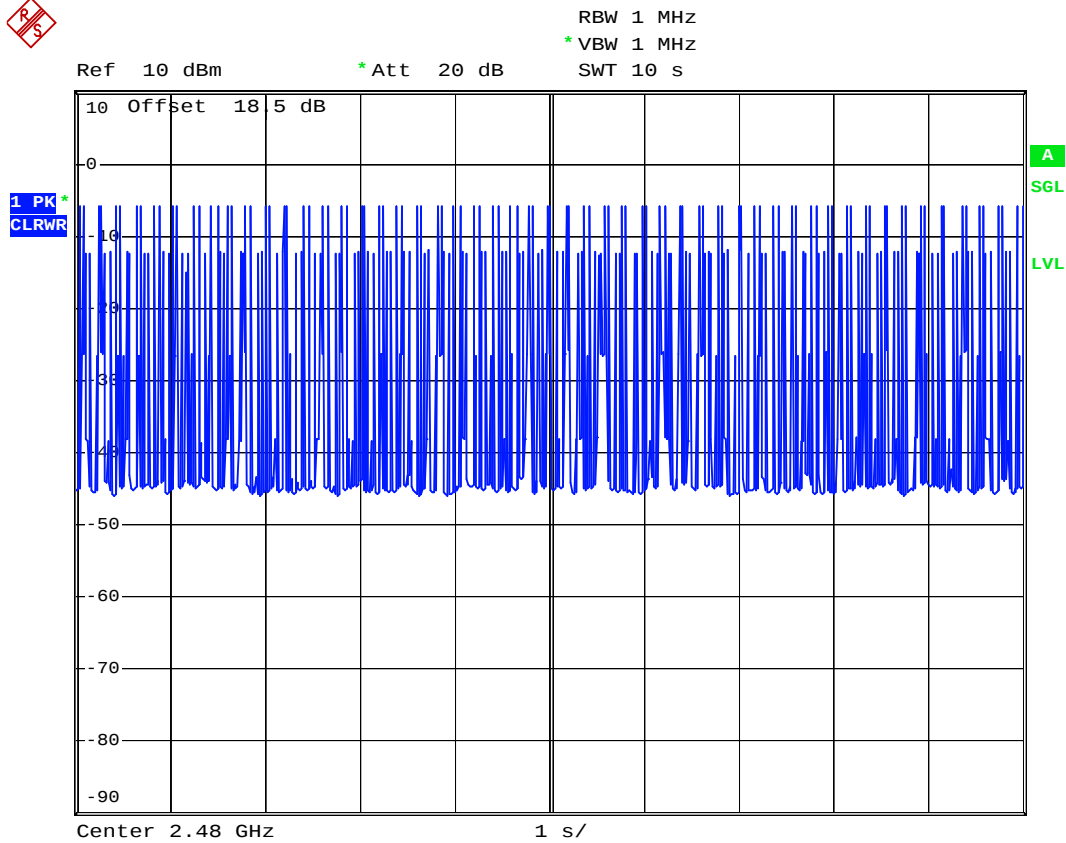
Date: 30.JAN.2007 22:35:50



DH1 (CH78)



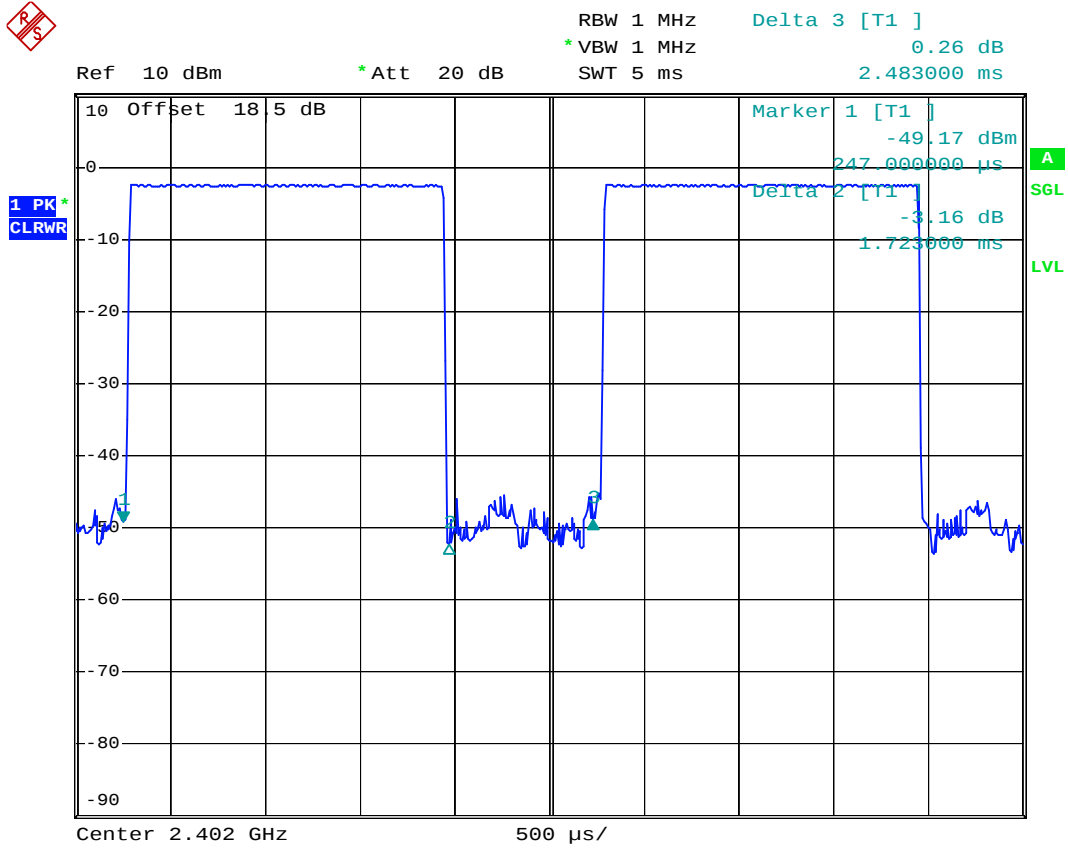
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Date: 30.JAN.2007 22:36:19



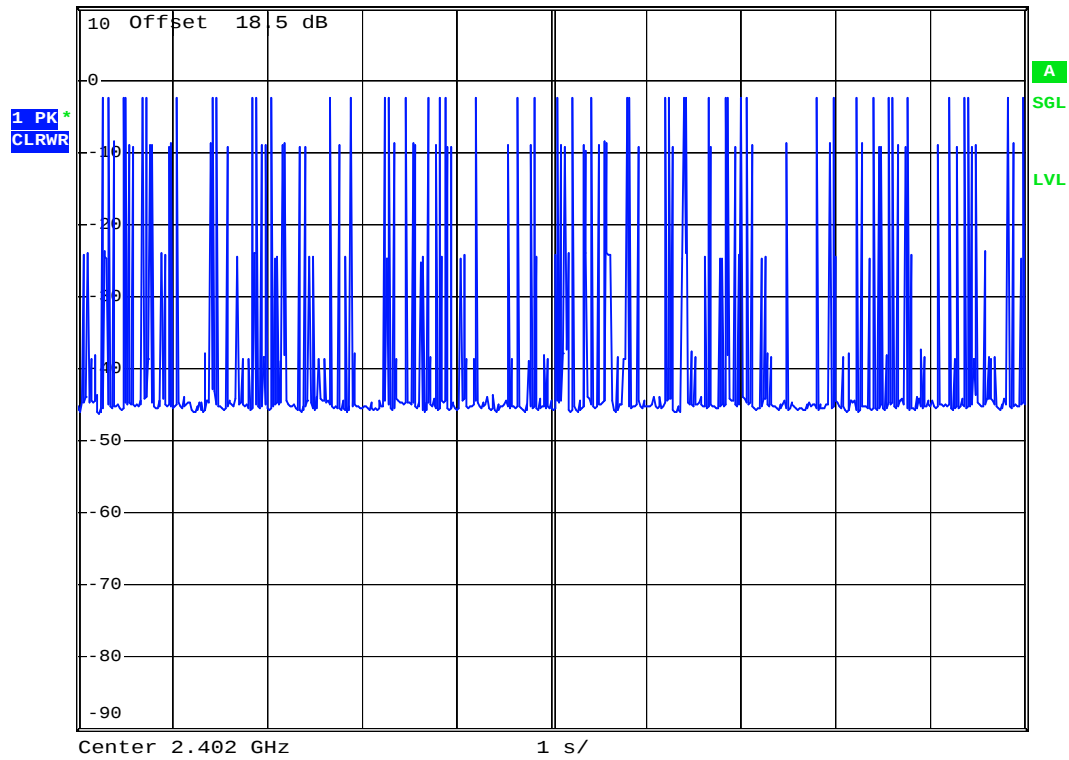
DH3 (CH00)



Date: 30.JAN.2007 22:27:40



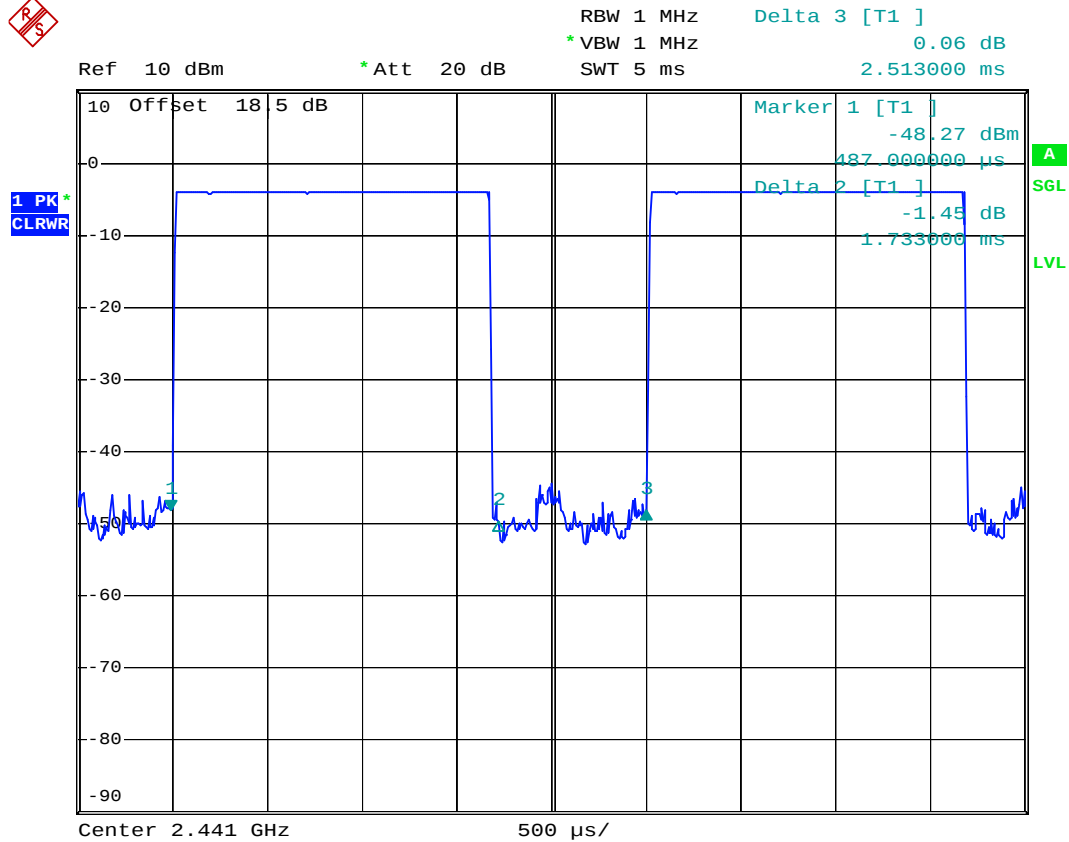
Ref 10 dBm * Att 20 dB RBW 1 MHz
* VBW 1 MHz SWT 10 s



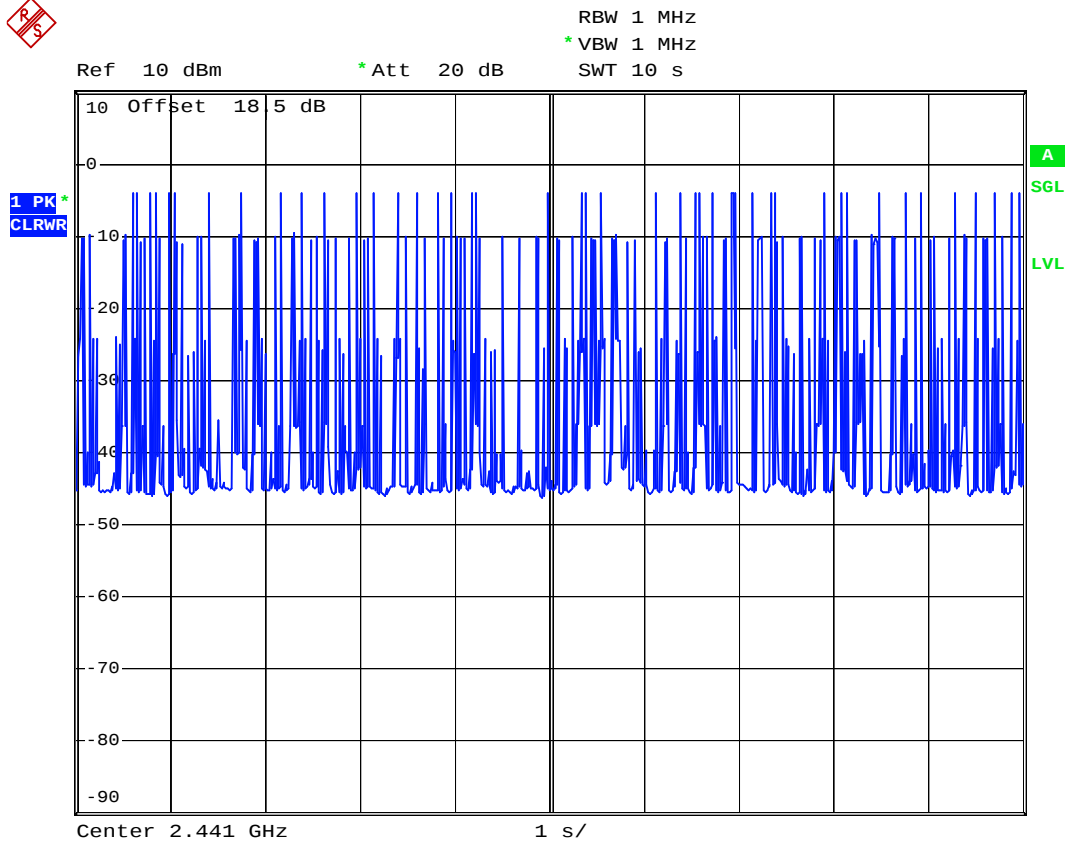
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DH3 (CH39)



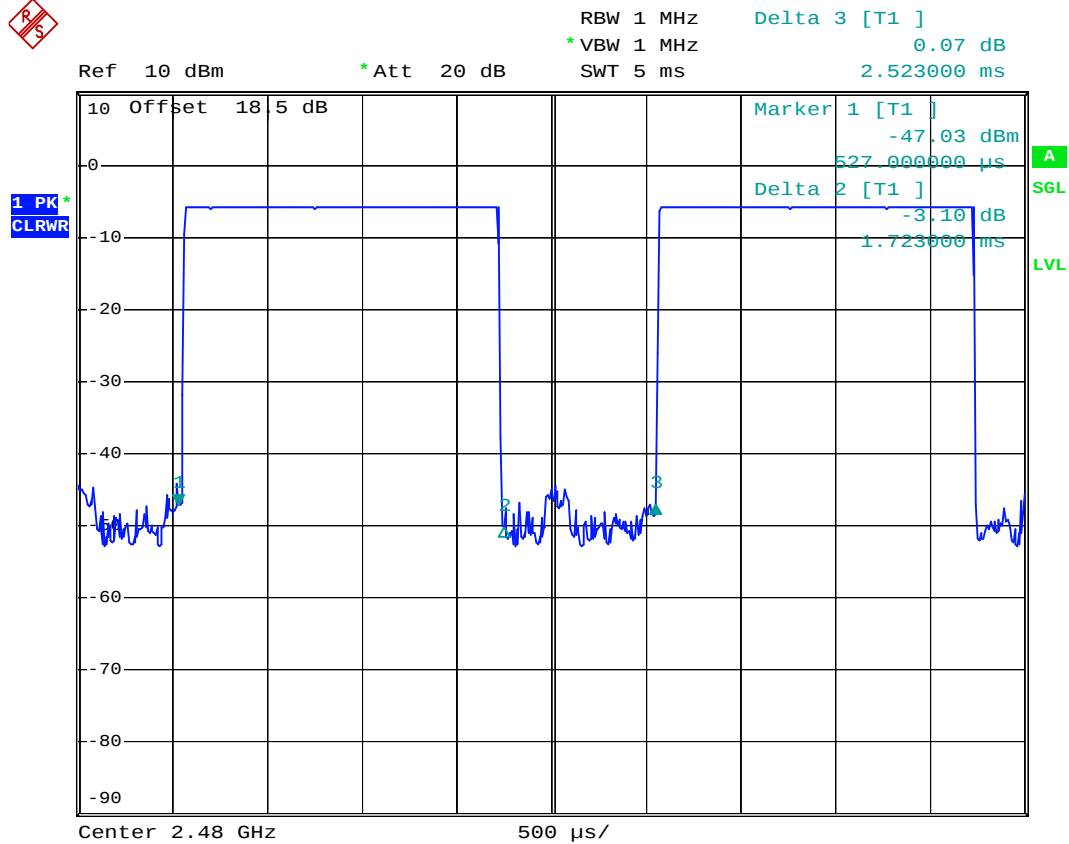
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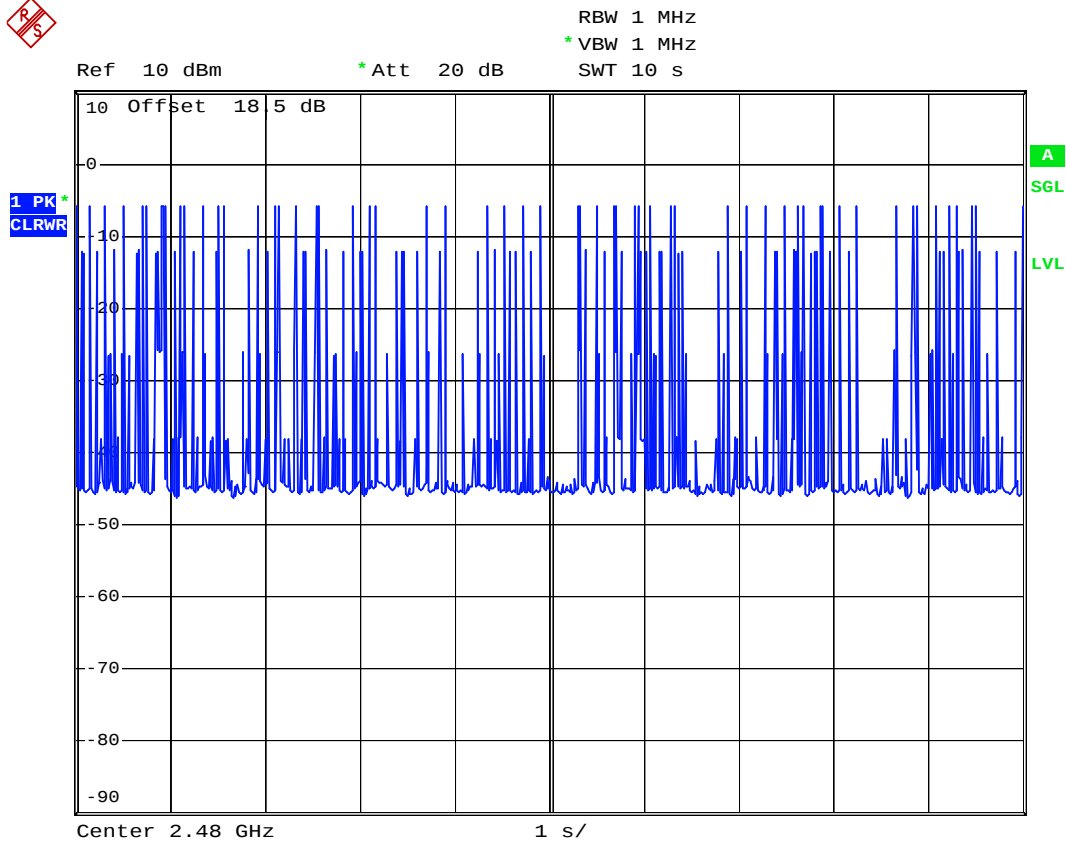
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DH3 (CH78)



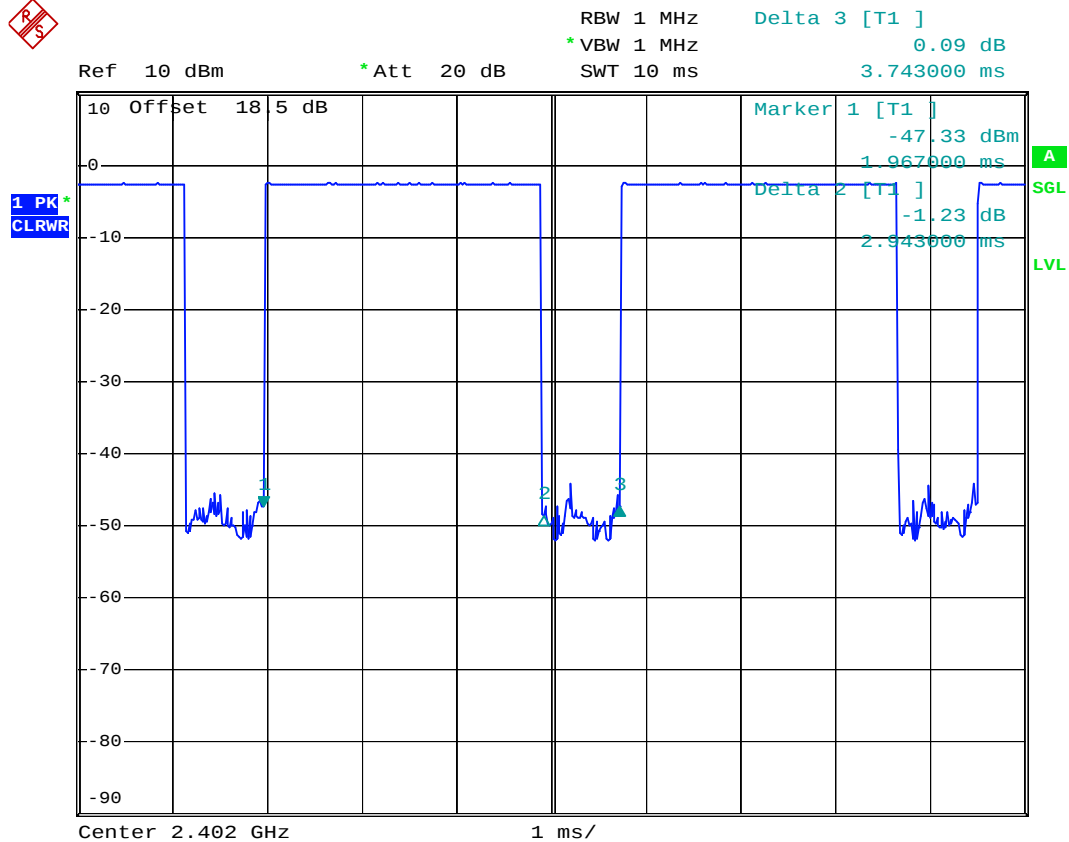
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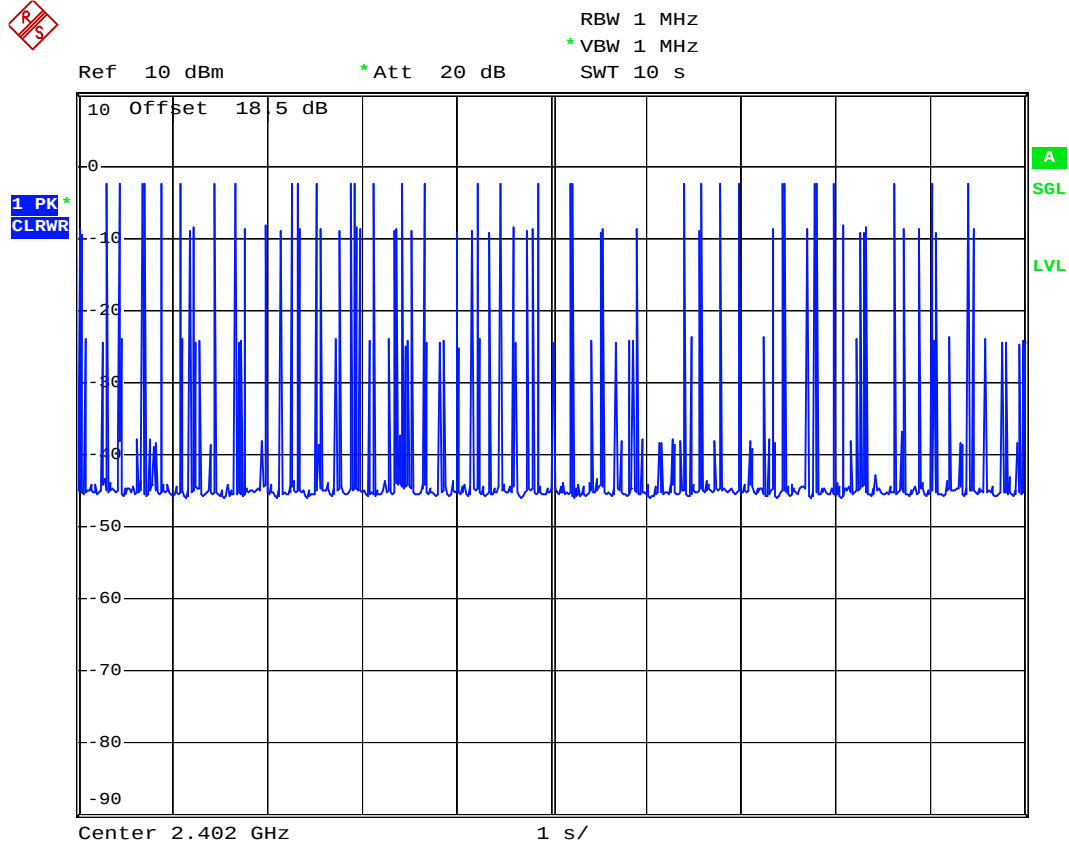
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DH5 (CH00)



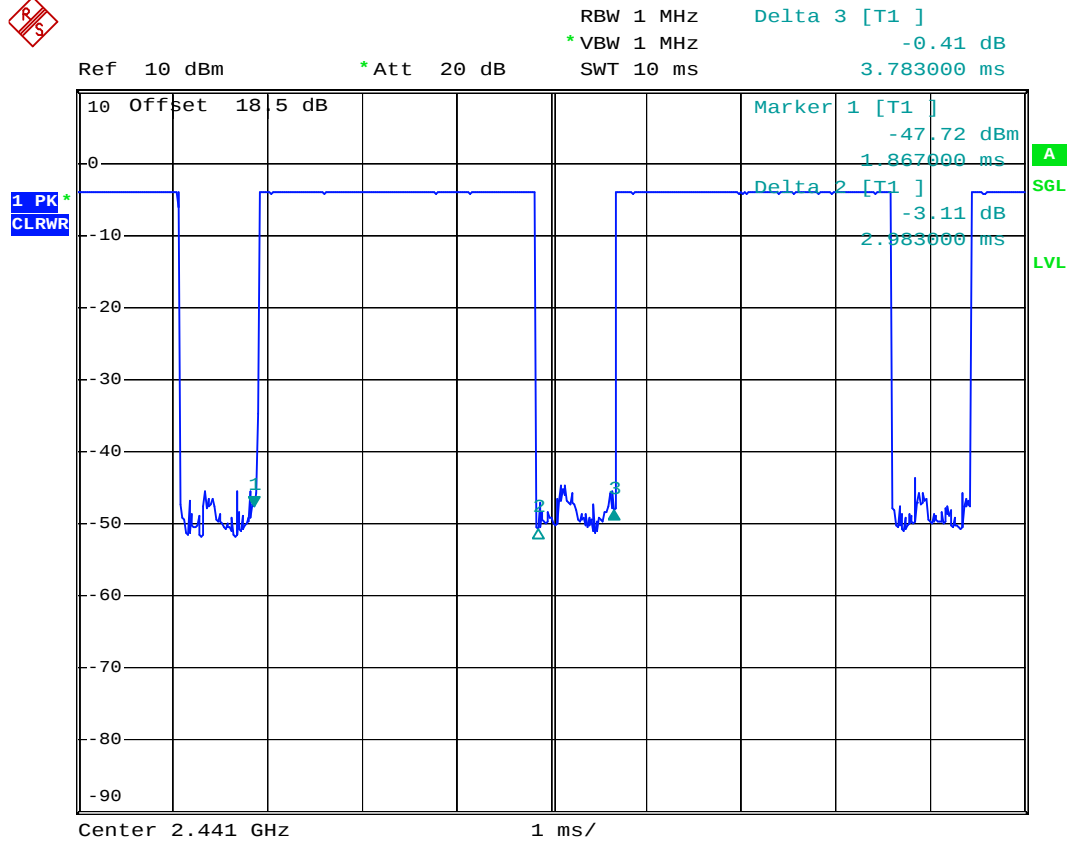
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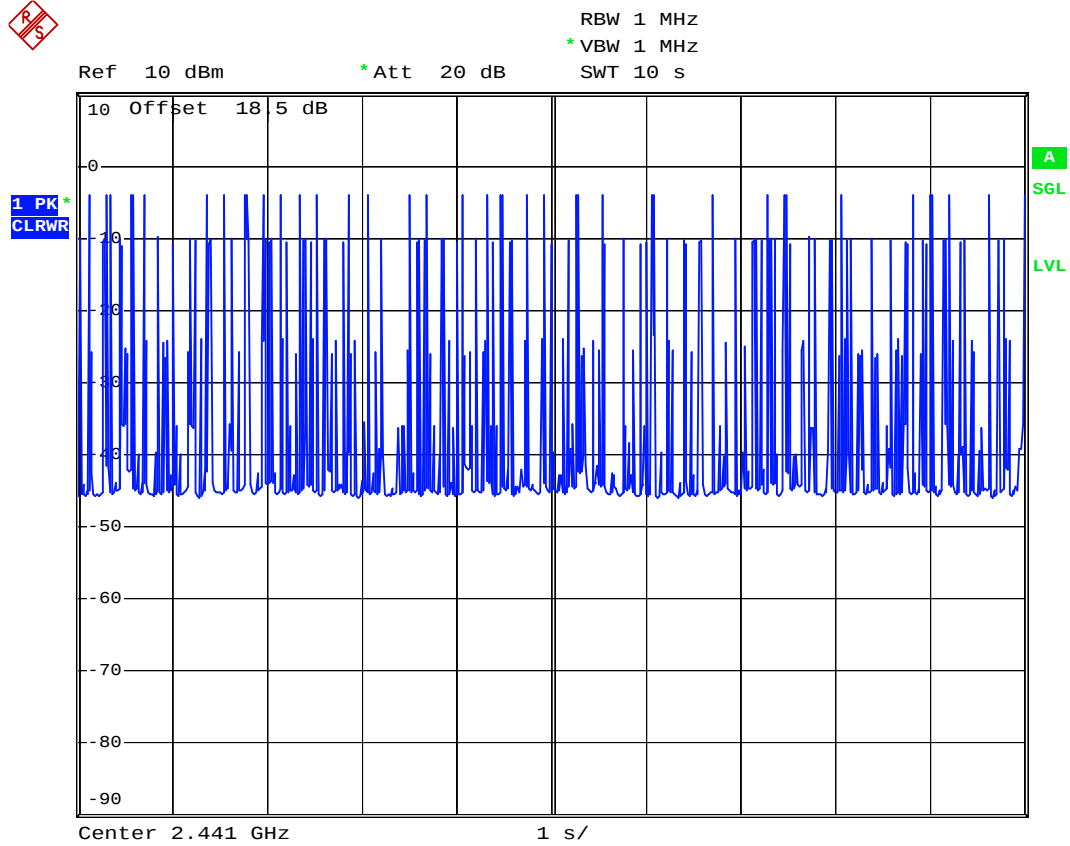
Date: 30.JAN.2007 22:38:30



DH5 (CH39)



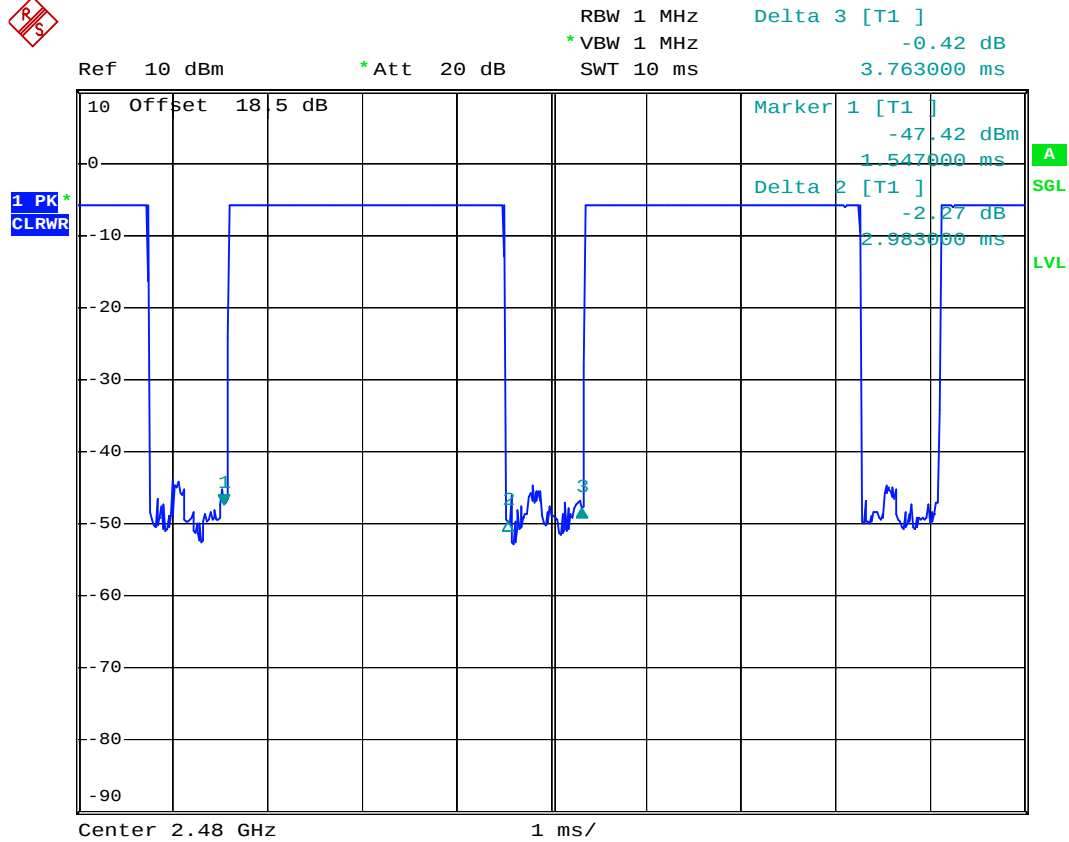
Date: 30.JAN.2007 22:31:19



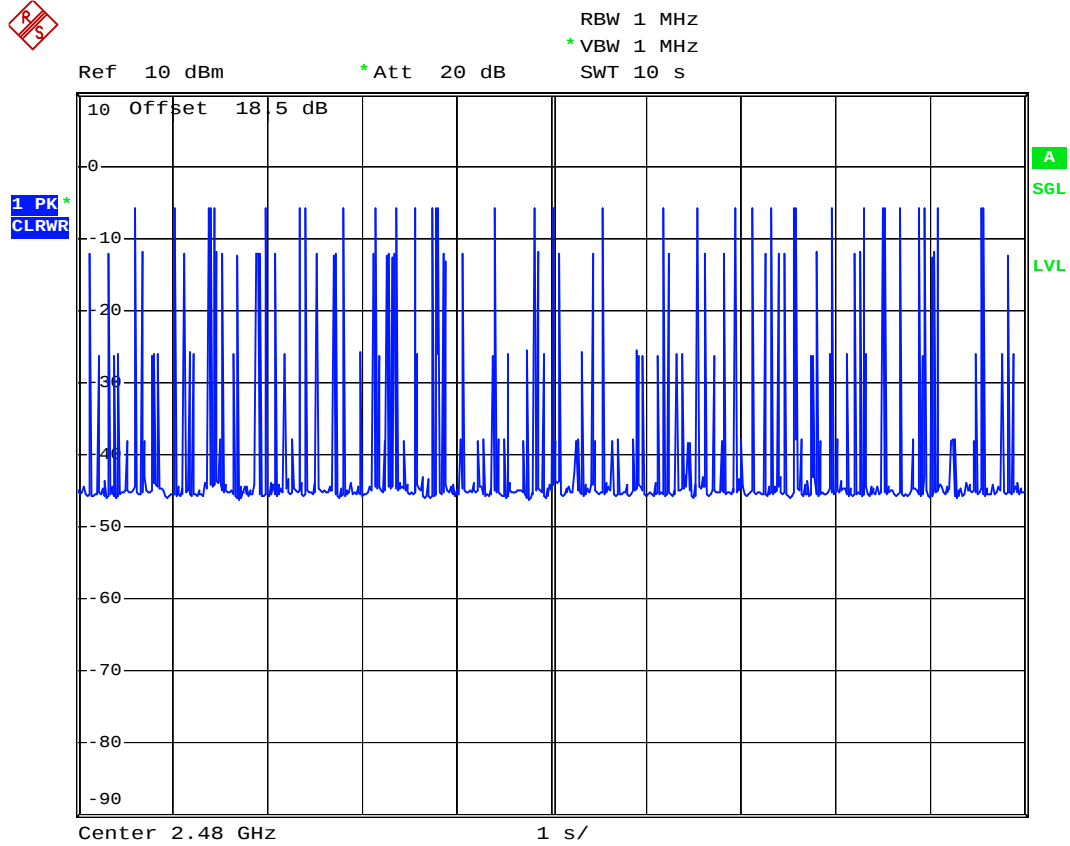
Date: 30.JAN.2007 22:39:07



DH5 (CH78)



Date: 30.JAN.2007 22:32:11



Date: 30.JAN.2007 22:39:45

5.7 Peak Output Power Measurement

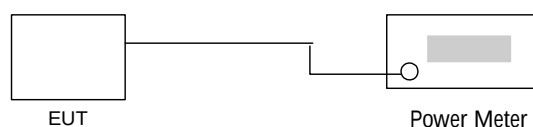
5.9.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.9.2 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.

5.9.3 Test Setup Layout :



5.9.4 Test Result :

- Application Type : Bluetooth
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : James

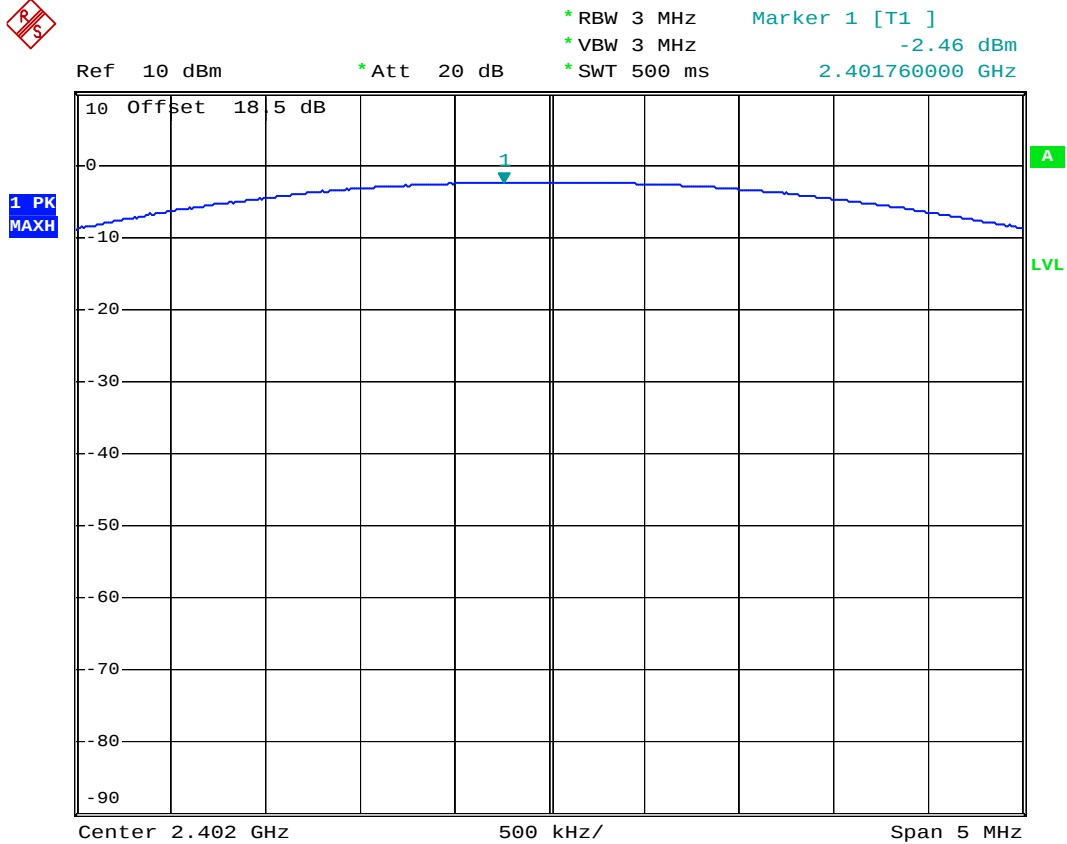
Bluetooth

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	-2.46	1W/30 dBm
39	2441	-3.9	1W/30 dBm
78	2480	-5.76	1W/30 dBm



5.9.5 Output Power

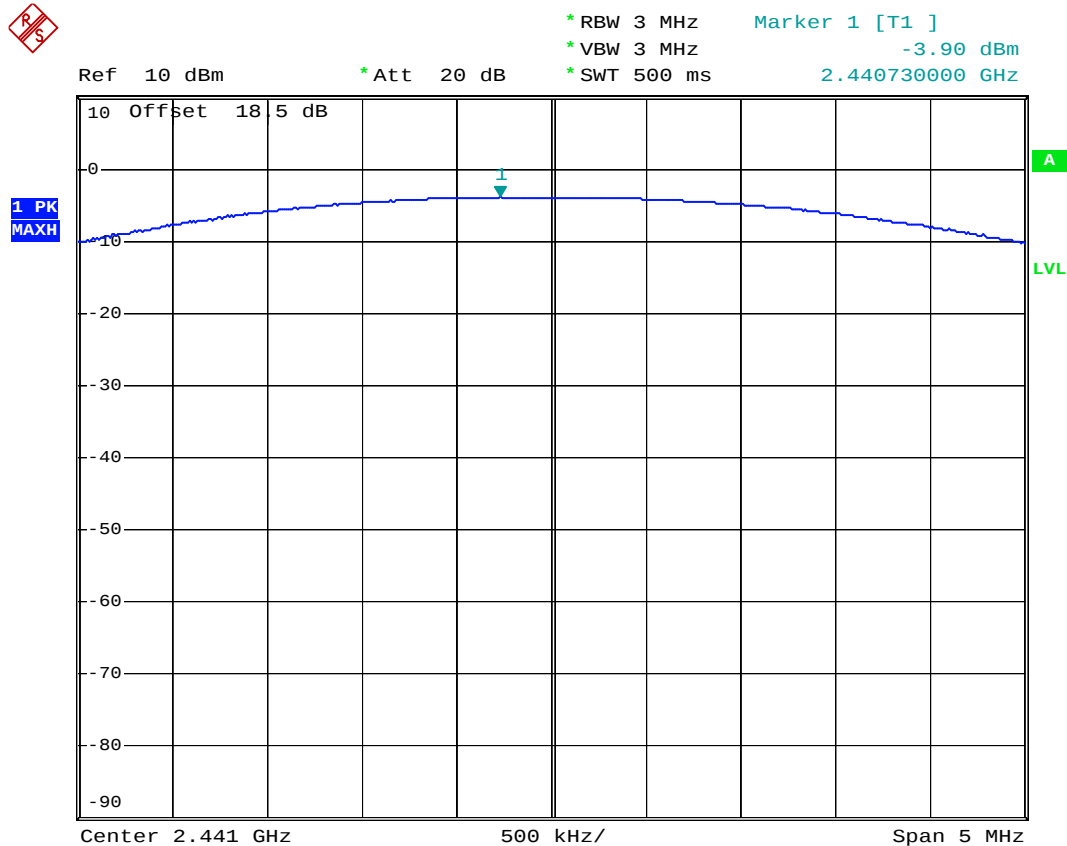
BT Mode : CH00 (2402MHz)



Date: 30.JAN.2007 21:56:26



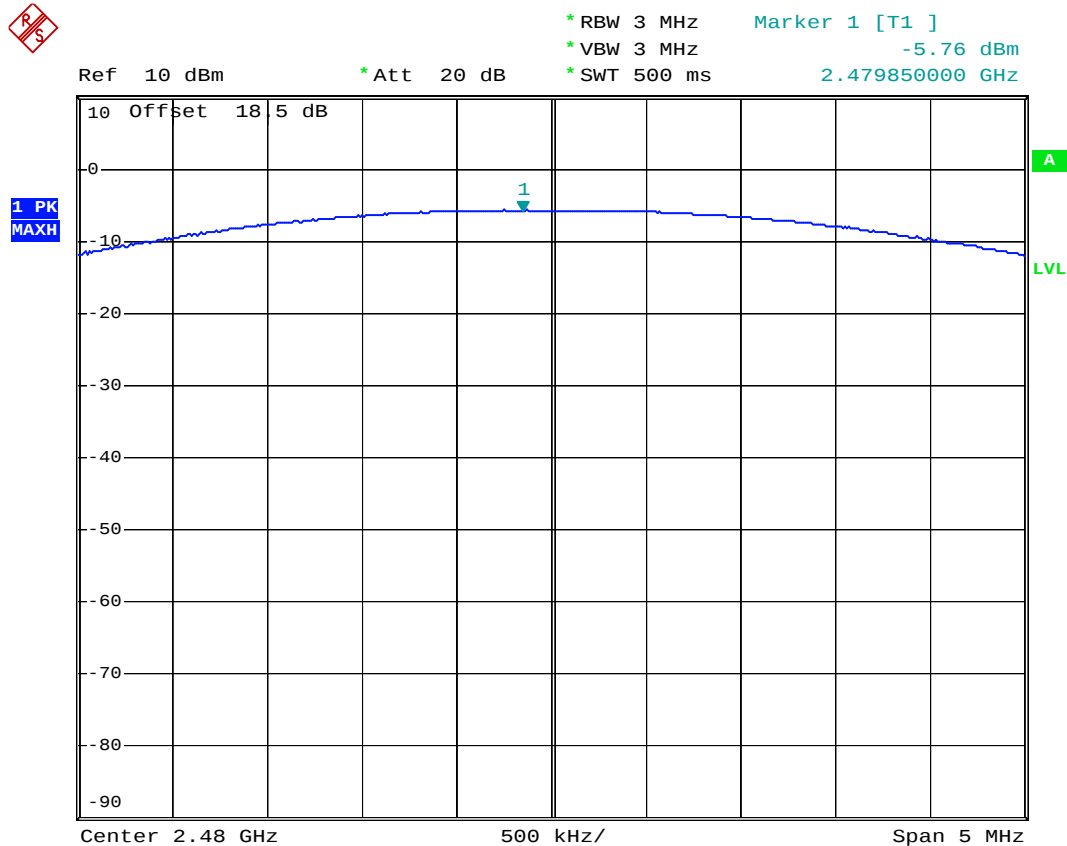
BT Mode : CH39 (2441MHz)



Date: 30.JAN.2007 21:56:50



BT Mode : CH78 (2480MHz)



Date: 30.JAN.2007 21:57:18



5.8 Conducted Emission

5.8.1 Measuring Instruments

As described in chapter 6 of this test Report.

5.8.2 Test Procedures :

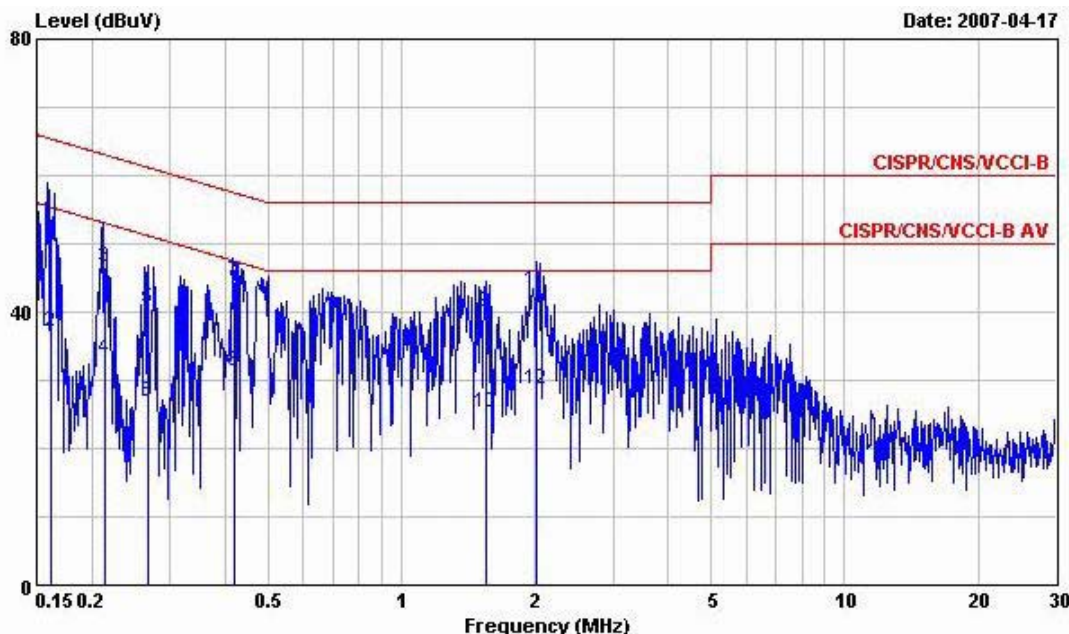
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power port of a line impedance stabilization network (LISN).
- c. All the support units are connected to the other LISN.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



5.8.3 Test Data

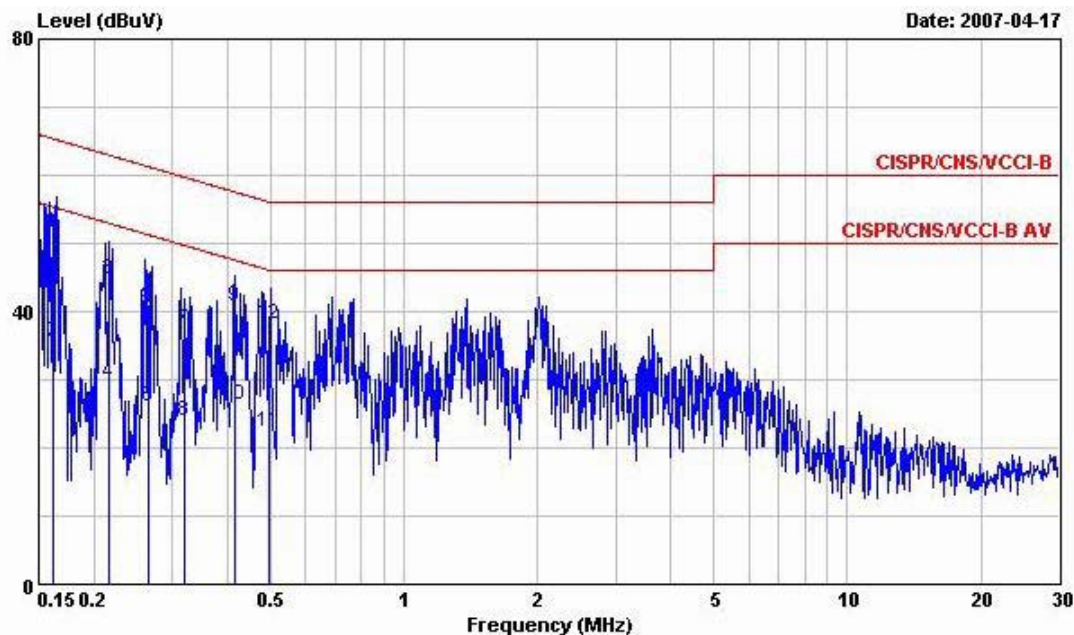
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : Andrew
- Test Mode : Mode 1

■ 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 200604 99041 LINE
 EUT : PDA Phone
 POWER: 120Vac/60Hz
 Model : FD741601
 Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
 Memo : Adaptor1+LCD A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1618420	53.00	-12.37	65.37	52.25	0.10	0.65	QP
2	0.1618420	37.02	-18.35	55.37	36.27	0.10	0.65	Average
3	0.2140740	46.64	-16.41	63.05	46.04	0.10	0.50	QP
4	0.2140740	33.12	-19.93	53.05	32.52	0.10	0.50	Average
5	0.2672410	40.41	-20.79	61.20	39.85	0.10	0.46	QP
6	0.2672410	26.82	-24.38	51.20	26.26	0.10	0.46	Average
7	0.4186680	44.43	-13.04	57.47	43.89	0.10	0.44	QP
8	0.4186680	31.28	-16.19	47.47	30.74	0.10	0.44	Average
9	1.550	39.91	-16.09	56.00	39.31	0.10	0.50	QP
10	1.550	25.25	-20.75	46.00	24.65	0.10	0.50	Average
11	2.020	43.25	-12.75	56.00	42.65	0.10	0.50	QP
12	2.020	28.56	-17.44	46.00	27.96	0.10	0.50	Average



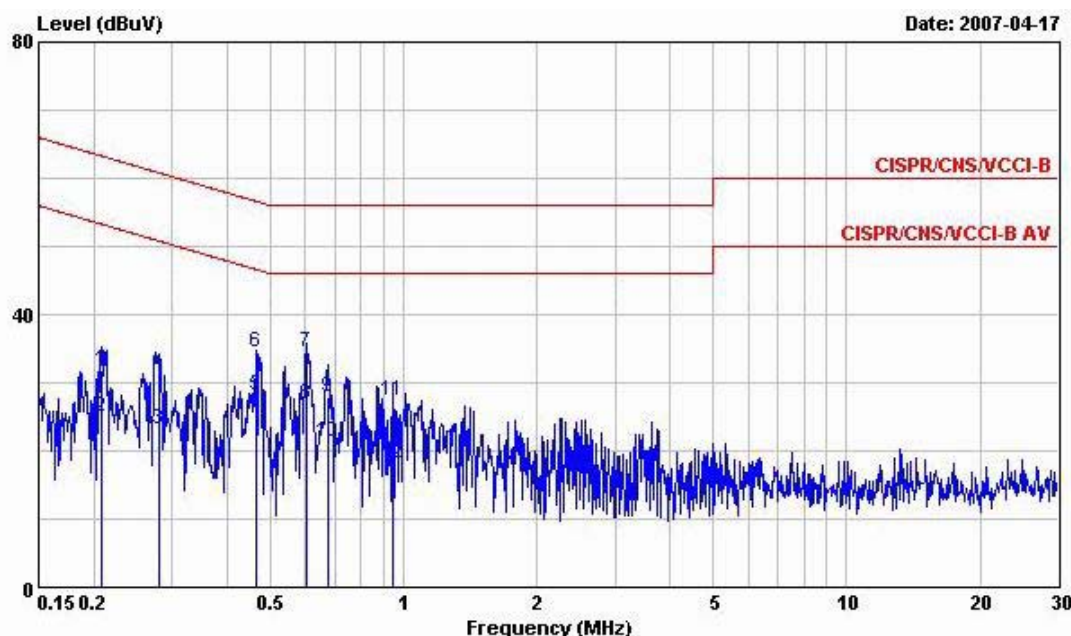
Site : C004-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 NEUTRAL
EUT : PDA Phone
POWER: 120Vac/60Hz
Model : FD741601
Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
Memo : Adaptor1+LCD A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1615980	51.60	-13.78	65.38	50.85	0.10	0.65	QP
2	0.1615980	35.59	-19.79	55.38	34.84	0.10	0.65	Average
3	0.2162030	44.69	-18.27	62.96	44.09	0.10	0.50	QP
4	0.2162030	29.60	-23.36	52.96	29.00	0.10	0.50	Average
5	0.2653450	41.15	-20.11	61.26	40.58	0.10	0.47	QP
6	0.2653450	26.03	-25.23	51.26	25.46	0.10	0.47	Average
7	0.3200360	37.46	-22.25	59.71	36.96	0.10	0.40	QP
8	0.3200360	23.91	-25.80	49.71	23.41	0.10	0.40	Average
9	0.4170520	40.85	-16.66	57.51	40.31	0.10	0.44	QP
10	0.4170520	26.41	-21.10	47.51	25.87	0.10	0.44	Average
11	0.4943230	22.37	-23.72	46.09	21.86	0.10	0.41	Average
12	0.4943230	38.25	-17.84	56.09	37.74	0.10	0.41	QP



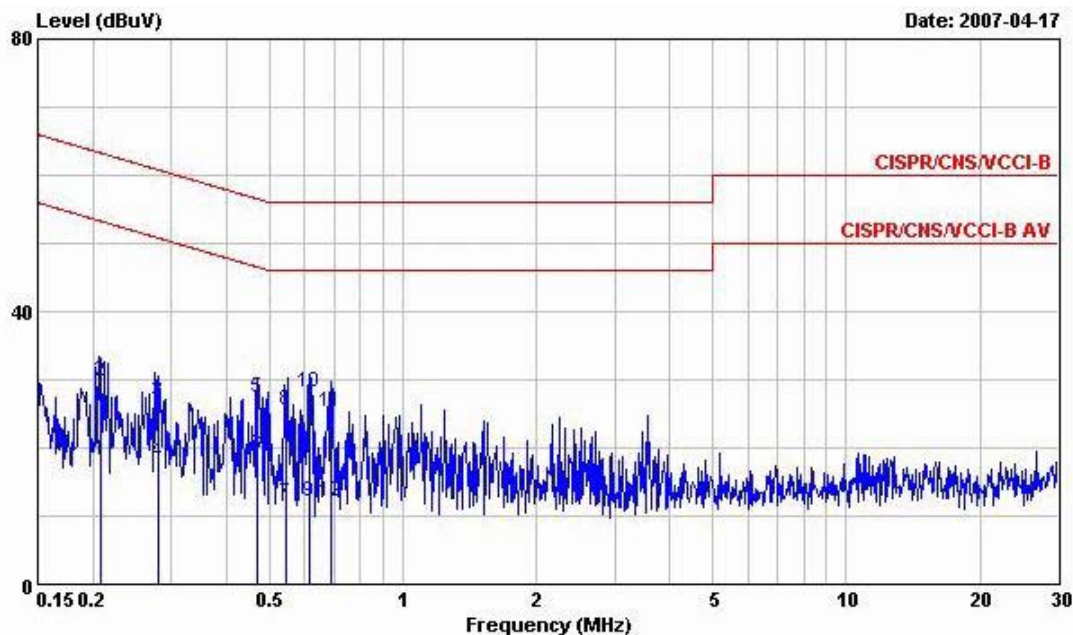
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : Andrew
- Test Mode : Mode 2

■ 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 200604 99041 LINE
 EUT : PDA Phone
 POWER: 120Vac/60Hz
 Model : FD741601
 Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
 Memo : +Adaptor2+LCD A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.2083320	31.83	-31.44	63.27	31.23	0.10	0.50	QP
2	0.2083320	24.93	-28.34	53.27	24.33	0.10	0.50	Average
3	0.2809630	23.07	-27.72	50.79	22.53	0.10	0.44	Average
4	0.2809630	31.28	-29.51	60.79	30.74	0.10	0.44	QP
5	0.4636720	28.14	-18.49	46.63	27.57	0.10	0.47	Average
6	0.4636720	34.36	-22.27	56.63	33.79	0.10	0.47	QP
7	0.6043130	34.39	-21.61	56.00	33.89	0.10	0.40	QP
8	0.6043130	26.76	-19.24	46.00	26.26	0.10	0.40	Average
9	0.6754350	27.77	-28.23	56.00	27.27	0.10	0.40	QP
10	0.6754350	21.35	-24.65	46.00	20.85	0.10	0.40	Average
11	0.9480900	27.30	-28.70	56.00	26.70	0.10	0.50	QP
12	0.9480900	18.04	-27.96	46.00	17.44	0.10	0.50	Average

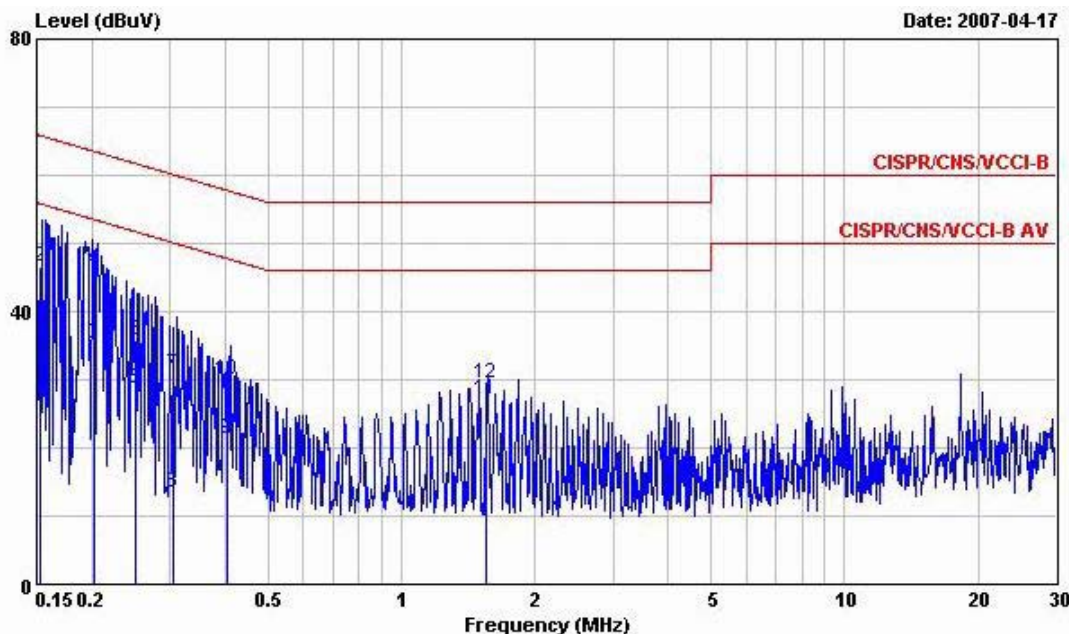


Site : CO04-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 NEUTRAL
EUT : PDA Phone
POWER: 120Vac/60Hz
Model : FD741601
Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
Memo : +Adaptor2+LCD A

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.2088460	18.22	-35.03	53.25	17.62	0.10	0.50	Average
2	0.2088460	29.63	-33.62	63.25	29.03	0.10	0.50	QP
3	0.2796930	26.87	-33.95	60.82	26.33	0.10	0.44	QP
4	0.2796930	17.87	-32.95	50.82	17.33	0.10	0.44	Average
5	0.4711010	27.28	-29.21	56.49	26.72	0.10	0.46	QP
6	0.4711010	18.83	-27.66	46.49	18.27	0.10	0.46	Average
7	0.5422610	11.79	-34.21	46.00	11.21	0.10	0.48	Average
8	0.5422610	25.49	-30.51	56.00	24.91	0.10	0.48	QP
9	0.6152760	12.03	-33.97	46.00	11.53	0.10	0.40	Average
10	0.6152760	28.08	-27.92	56.00	27.58	0.10	0.40	QP
11	0.6899030	25.33	-30.67	56.00	24.83	0.10	0.40	QP
12	0.6899030	12.03	-33.97	46.00	11.53	0.10	0.40	Average

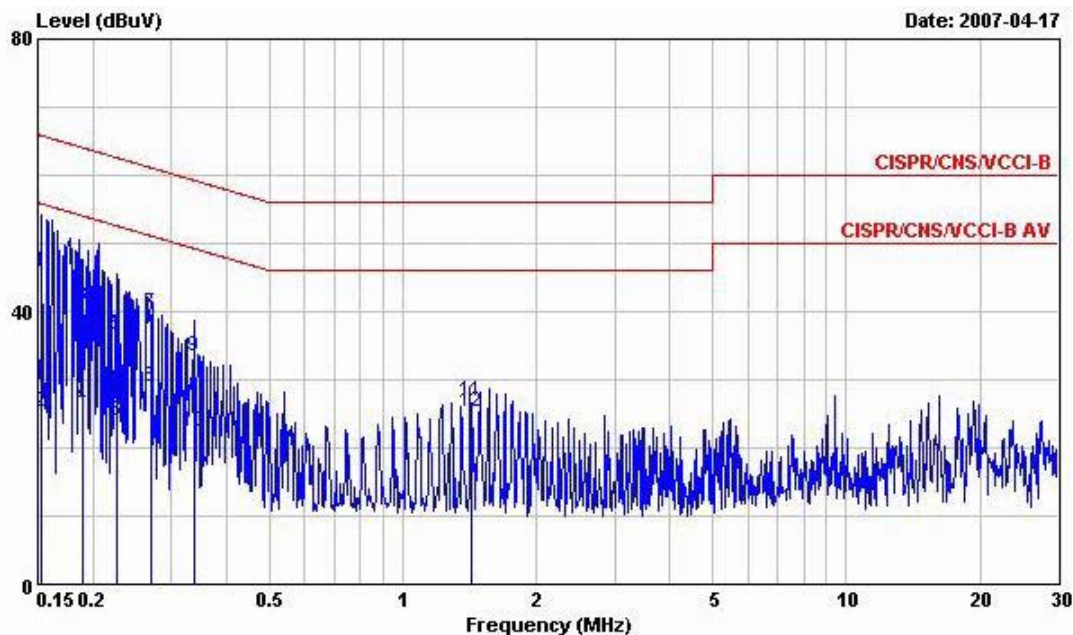
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : Andrew
- Test Mode : Mode 3

■ 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 200604 99041 LINE
 EUT : PDA Phone
 POWER: 120Vac/60Hz
 Model : FD741601
 Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
 Memo : +USB Link+LCD A

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1526750	26.03	-29.82	55.85	25.24	0.10	0.69	Average
2	0.1526750	46.58	-19.27	65.85	45.79	0.10	0.69	QP
3	0.2022260	35.28	-18.24	53.52	34.68	0.10	0.50	Average
4	0.2022260	46.02	-17.50	63.52	45.42	0.10	0.50	QP
5	0.2503720	35.78	-25.96	61.74	35.18	0.10	0.50	QP
6	0.2503720	28.65	-23.09	51.74	28.05	0.10	0.50	Average
7	0.3042890	30.75	-29.37	60.12	30.25	0.10	0.40	QP
8	0.3042890	13.54	-36.58	50.12	13.04	0.10	0.40	Average
9	0.4054750	21.28	-26.46	47.74	20.77	0.10	0.41	Average
10	0.4054750	29.91	-27.83	57.74	29.40	0.10	0.41	QP
11	1.556	27.18	-18.82	46.00	26.58	0.10	0.50	Average
12	1.556	29.40	-26.60	56.00	28.80	0.10	0.50	QP

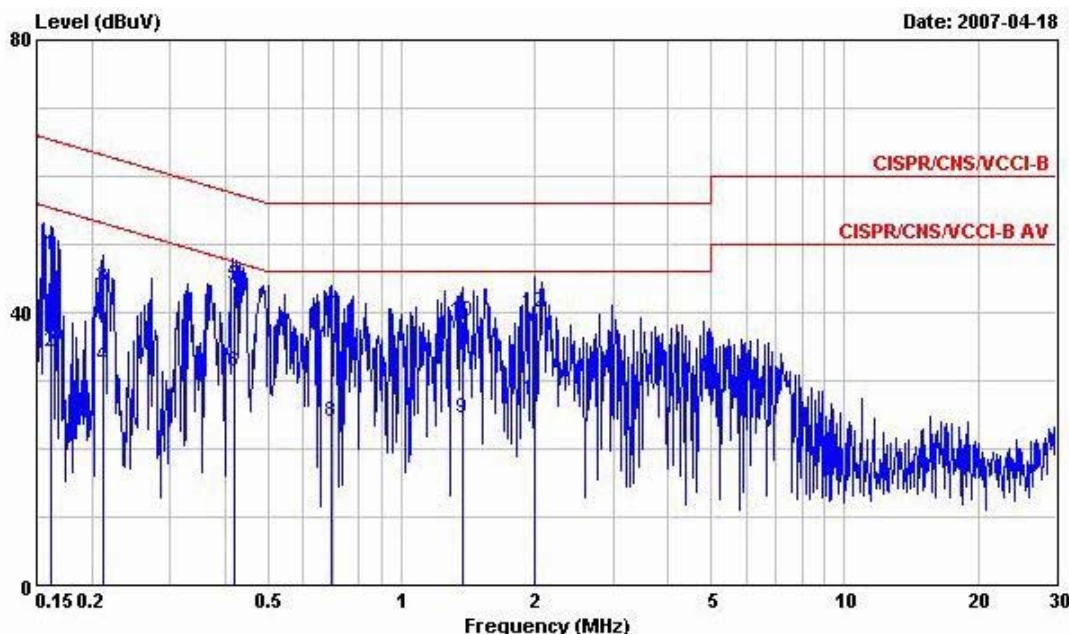


Site : C004-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 NEUTRAL
EUT : PDA Phone
POWER: 120Vac/60Hz
Model : FD741601
Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
Memo : +USB Link+LCD A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1535060	45.84	-19.97	65.81	45.06	0.10	0.68	QP
2	0.1535060	25.32	-30.49	55.81	24.54	0.10	0.68	Average
3	0.1892300	40.72	-23.35	64.07	40.08	0.10	0.54	QP
4	0.1892300	26.09	-27.98	54.07	25.45	0.10	0.54	Average
5	0.2255640	36.50	-26.11	62.61	35.90	0.10	0.50	QP
6	0.2255640	23.90	-28.71	52.61	23.30	0.10	0.50	Average
7	0.2695570	39.74	-21.39	61.13	39.18	0.10	0.46	QP
8	0.2695570	28.98	-22.15	51.13	28.42	0.10	0.46	Average
9	0.3391950	33.47	-25.75	59.22	32.97	0.10	0.40	QP
10	0.3391950	22.32	-26.90	49.22	21.82	0.10	0.40	Average
11	1.420	26.95	-29.05	56.00	26.35	0.10	0.50	QP
12	1.420	25.36	-20.64	46.00	24.76	0.10	0.50	Average

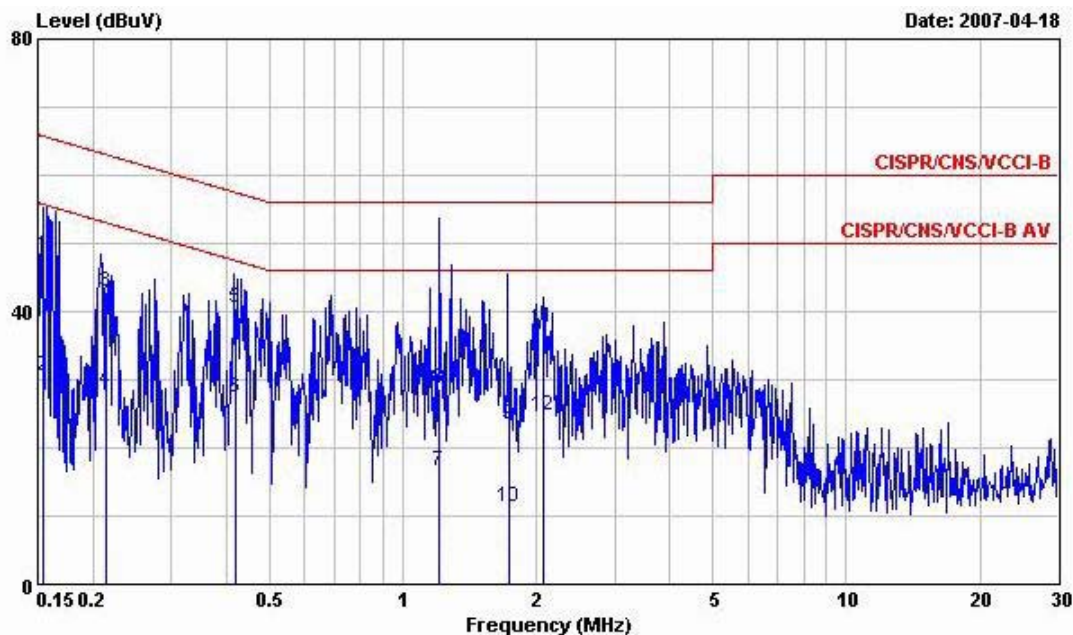
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : Andrew
- Test Mode : Mode 4

■ 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 200604 99041 LINE
 EUT : PDA Phone
 POWER: 120Vac/60Hz
 Model : FD741601
 Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
 Memo : Adaptor1+LCD B

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1611780	48.40	-17.00	65.40	47.65	0.10	0.65	QP
2	0.1611780	34.24	-21.16	55.40	33.49	0.10	0.65	Average
3	0.2116700	43.59	-19.55	63.14	42.99	0.10	0.50	QP
4	0.2116700	32.05	-21.09	53.14	31.45	0.10	0.50	Average
5	0.4191680	44.02	-13.44	57.46	43.48	0.10	0.44	QP
6	0.4191680	31.22	-16.24	47.46	30.68	0.10	0.44	Average
7	0.6935680	39.52	-16.48	56.00	39.02	0.10	0.40	QP
8	0.6935680	23.89	-22.11	46.00	23.39	0.10	0.40	Average
9	1.370	24.44	-21.56	46.00	23.84	0.10	0.50	Average
10	1.370	38.63	-17.37	56.00	38.03	0.10	0.50	QP
11	1.990	27.16	-18.84	46.00	26.56	0.10	0.50	Average
12	1.990	39.94	-16.06	56.00	39.34	0.10	0.50	QP



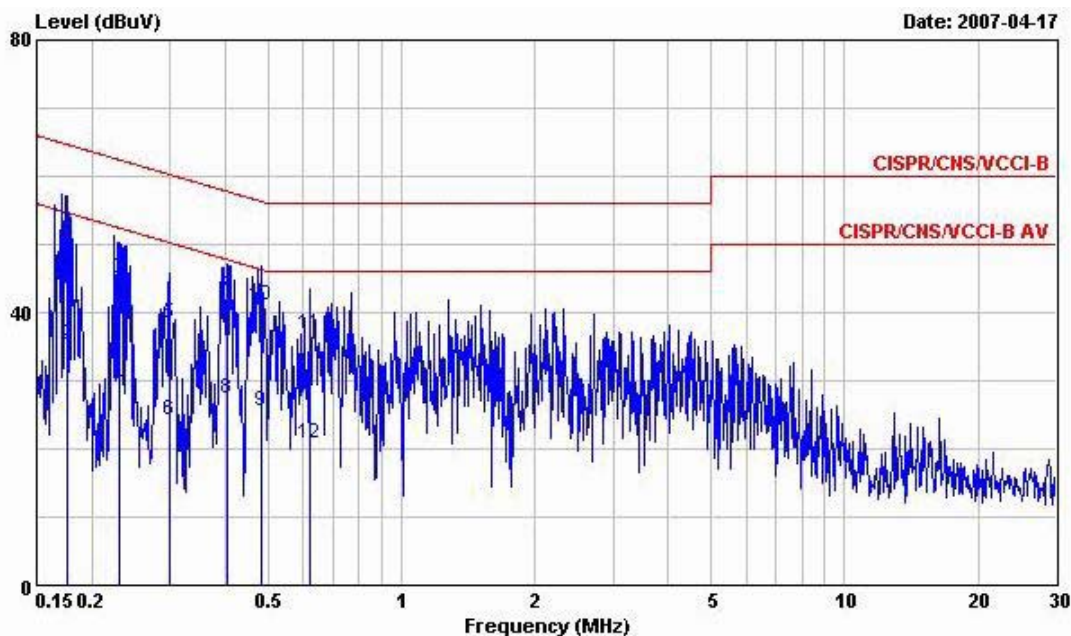
Site : C004-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 NEUTRAL
EUT : PDA Phone
POWER: 120Vac/60Hz
Model : FD741601
Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
Memo : Adaptor1+LCD B

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1540270	48.05	-17.73	65.78	47.27	0.10	0.68	QP
2	0.1540270	30.59	-25.19	55.78	29.81	0.10	0.68	Average
3	0.2136320	42.94	-20.12	63.06	42.34	0.10	0.50	QP
4	0.2136320	28.52	-24.54	53.06	27.92	0.10	0.50	Average
5	0.4185320	40.61	-16.87	57.48	40.07	0.10	0.44	QP
6	0.4185320	27.28	-20.20	47.48	26.74	0.10	0.44	Average
7	1.210	16.70	-29.30	46.00	16.10	0.10	0.50	Average
8	1.210	28.78	-27.22	56.00	28.18	0.10	0.50	QP
9	1.730	23.29	-32.71	56.00	22.69	0.10	0.50	QP
10	1.730	11.43	-34.57	46.00	10.83	0.10	0.50	Average
11	2.070	37.72	-18.28	56.00	37.11	0.10	0.51	QP
12	2.070	24.81	-21.19	46.00	24.20	0.10	0.51	Average



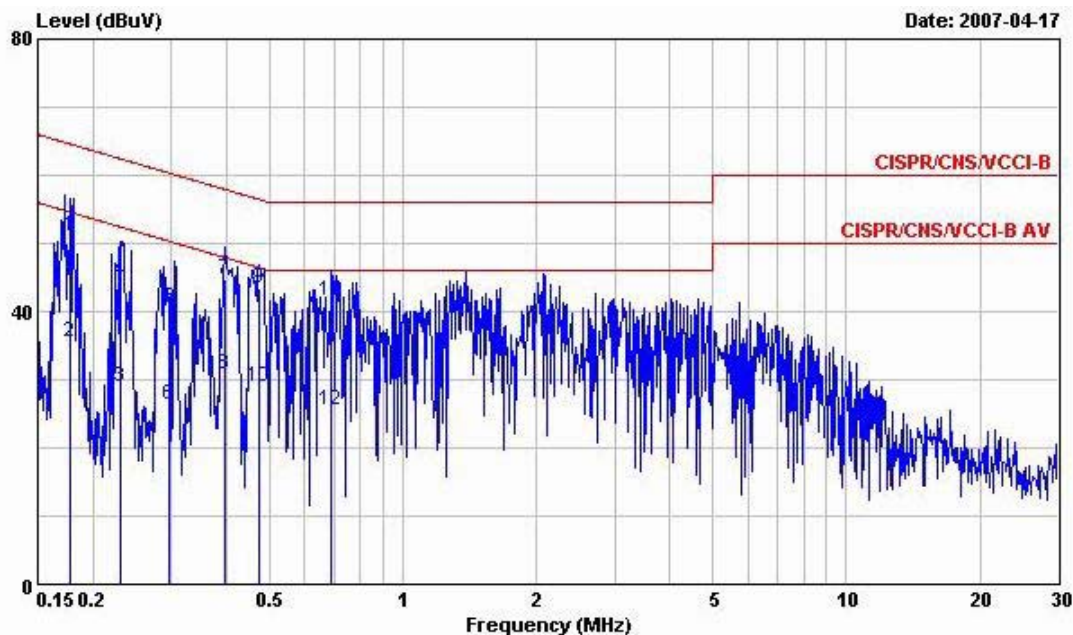
- Temperature : 26°C
- Relative Humidity : 54%
- Test Enginner : Andrew
- Test Mode : Mode 5

■ 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 200604 99041 LINE
 EUT : PDA Phone
 POWER: 120Vac/60Hz
 Model : FD741601
 Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
 Memo : Adaptor1+LCD C

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1752050	52.15	-12.56	64.71	51.46	0.10	0.59	QP
2	0.1752050	35.35	-19.36	54.71	34.66	0.10	0.59	Average
3	0.2307330	44.99	-17.43	62.42	44.39	0.10	0.50	QP
4	0.2307330	29.18	-23.24	52.42	28.58	0.10	0.50	Average
5	0.2986930	38.46	-21.82	60.28	37.96	0.10	0.40	QP
6	0.2986930	24.18	-26.10	50.28	23.68	0.10	0.40	Average
7	0.4040020	42.33	-15.44	57.77	41.82	0.10	0.41	QP
8	0.4040020	27.27	-20.50	47.77	26.76	0.10	0.41	Average
9	0.4811910	25.58	-20.74	46.32	25.05	0.10	0.43	Average
10	0.4811910	40.94	-15.38	56.32	40.41	0.10	0.43	QP
11	0.6205370	36.86	-19.14	56.00	36.36	0.10	0.40	QP
12	0.6205370	20.78	-25.22	46.00	20.28	0.10	0.40	Average



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 NEUTRAL
EUT : PDA Phone
POWER: 120Vac/60Hz
Model : FD741601
Memo : CDMA850 Idle+BT Link+WLAN Link+Camera+MPEG4
Memo : Adaptor1+LCD C

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1772240	51.15	-13.46	64.61	50.47	0.10	0.58	QP
2	0.1772240	35.50	-19.11	54.61	34.82	0.10	0.58	Average
3	0.2316200	28.84	-23.55	52.39	28.24	0.10	0.50	Average
4	0.2316200	44.37	-18.02	62.39	43.77	0.10	0.50	QP
5	0.2958410	40.53	-19.83	60.36	40.02	0.10	0.41	QP
6	0.2958410	26.38	-23.98	50.36	25.87	0.10	0.41	Average
7	@0.3976320	44.65	-13.25	57.90	44.15	0.10	0.40	QP
8	0.3976320	30.72	-17.18	47.90	30.22	0.10	0.40	Average
9	@0.4736030	43.50	-12.95	56.45	42.95	0.10	0.45	QP
10	0.4736030	29.04	-17.41	46.45	28.49	0.10	0.45	Average
11	0.6899030	41.54	-14.46	56.00	41.04	0.10	0.40	QP
12	0.6899030	25.46	-20.54	46.00	24.96	0.10	0.40	Average