

Prüfbericht-Nr.: <i>Test Report No.:</i>	17044019 001	Auftrags-Nr.: <i>Order No.:</i>	164022420	Seite 1 von 96 Page 1 of 96
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	28.09.2014	
Auftraggeber: <i>Client:</i>	Compupal Group Corporation No.1555 Jiashan Avenue, Jiashan, Zhejiang 314113, China			
Prüfgegenstand: <i>Test item:</i>	BLUETOOTH SPEAKER			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MG-BTS01, MG-BTS01-BK, MG-BTS01-W, MG-BTS01-BU			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of receipt:</i>	14.10.2014			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000111095-004, A000111095-005			
Prüfzeitraum: <i>Testing period:</i>	16.10.2014 - 22.10.2014			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
10.12.2014 Owen Tian/Project Manager		10.12.2014 Sam Lin/Technical Certifier		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V04

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.4 6dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH***RESULT: Pass***5.1.6 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.7 SPURIOUS EMISSION***RESULT: Pass***5.1.8 FREQUENCY SEPARATION***RESULT: Pass***5.1.9 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.10 TIME OF OCCUPANCY***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions & Receiver spurious emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Radio Spectrum Test				
EMI Test Receiver	Rohde&Schwarz	ESPI-3	100396/003	2015-01-11
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2015-06-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Conducted Emission				
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2015-01-11
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100815	2015-01-11
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015-01-11

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60 \text{ dB}$
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42 \text{ dB}$
Conducted Emission	$< \pm 2.23 \text{ dB}$
Radiated Emission	$< \pm 4.42 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are portable Bluetooth speaker.
 These models are identical except the color.
 For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth (BDR & EDR mode)

Technical Specification	Value
Kind of Equipment	BLUETOOTH SPEAKER
Type Designation	MG-BTS01, MG-BTS01-BK, MG-BTS01-W, MG-BTS01-BU
FCC ID	Z5YMG-BTS01
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-20~+60°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via USB port)
Modulation	FHSS (GFSK, 8DPSK, $\pi/4$ DQPSK)
Bluetooth version	4.0, Dual Mode
Antenna Gain	-2dBi

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00

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12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

Table 5: Technical Specification of Bluetooth (LE mode)

Technical Specification	Value
Kind of Equipment	BLUETOOTH SPEAKER
Type Designation	MG-BTS01, MG-BTS01-BK, MG-BTS01-W, MG-BTS01-BU
FCC ID	Z5YMG-BTS01
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-20~+60°C
Operation Voltage	DC 3.7V (via built in battery)
Kind of Equipment	BLUETOOTH SPEAKER
Modulation	GFSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	-2dBi

Table 6: RF channel and frequency of Bluetooth (LE mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth mode (BDR & EDR mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
 - 2. Bluetooth mode (LE mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

According to clause 3.1, all tests were applied on model MG-BTS01 only.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N	Rating
Notebook PC	Lenovo	4290-RT8	R9-FW93G	N/A

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
Micro USB port	4 cores, non-shielded port, 3m	DC Power Input

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

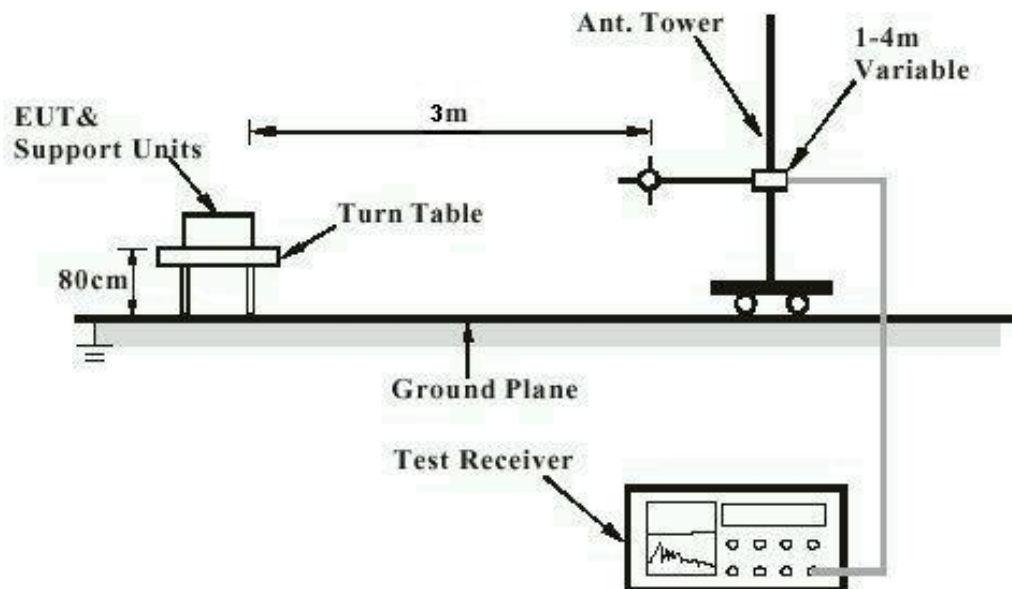


Diagram of Measurement Equipment Configuration for Conduction Measurement

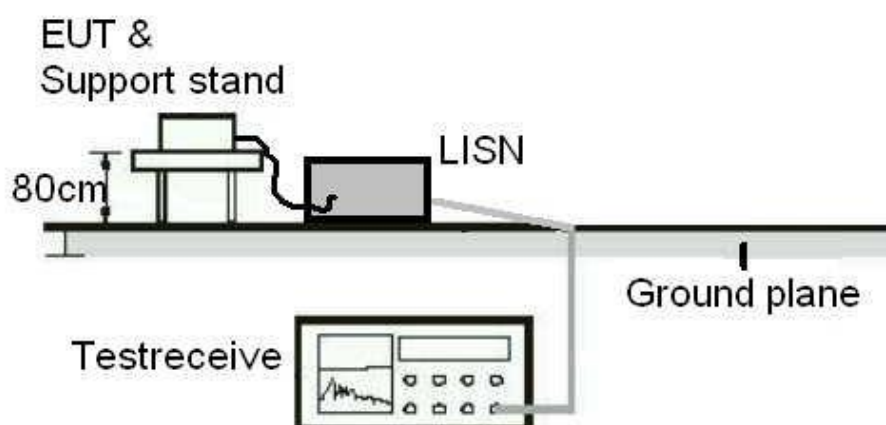
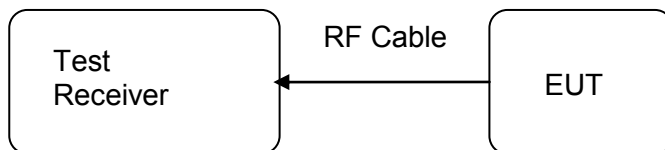


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
Limit The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Output Power

RESULT:
Pass

Test date : 2014-10-22
 Test standard : FCC Part 15.247(b)(1)
 FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.4: 2003
 Clause 9.1 of KDB 558074 v03r01
 Limit : 125mW, 1W
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a, A.2.a
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 7: Test result of Peak Output Power of Buletooth (BDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	2.41	21
Middle Channel	2441	4.74	21
High Channel	2480	5.43	21

Table 8: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	0.96	21
Middle Channel	2441	3.72	21
High Channel	2480	4.55	21

Table 9: Test result of Peak Output Power of Bluetooth (LE mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	3.82	30
Middle Channel	2440	4.43	30
High Channel	2480	4.64	30

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5.1.3 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2014-10-16
Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.4: 2003
Clause 8 of KDB 558074 v03r01
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 10: Test result of 20dB & 99% Bandwidth of BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.9335	0.9378
Mid Channel	2441	0.9335	0.9378
High Channel	2480	0.9335	0.9421

Table 11: Test result of 20dB & 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.2070	1.1939
Mid Channel	2441	1.2069	1.1896
High Channel	2480	1.2070	1.1983

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5.1.4 6dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2014-10-22
Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.4: 2003
Clause 8 of KDB 558074 v03r01
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.2.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 12: Test result of 6dB & 99% Bandwidth of Bluetooth, LE mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.5557	1.0376
Mid Channel	2440	0.5731	1.0376
High Channel	2480	0.5774	1.0333

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5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth**RESULT:****Pass**

Date of testing	:	2014-10-22
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

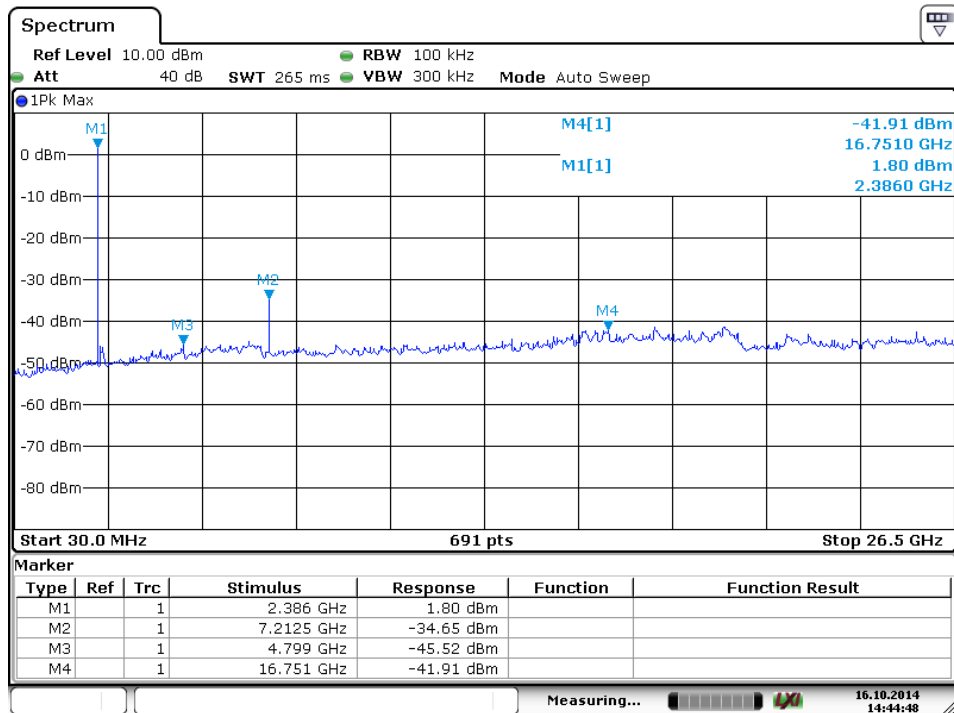
Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

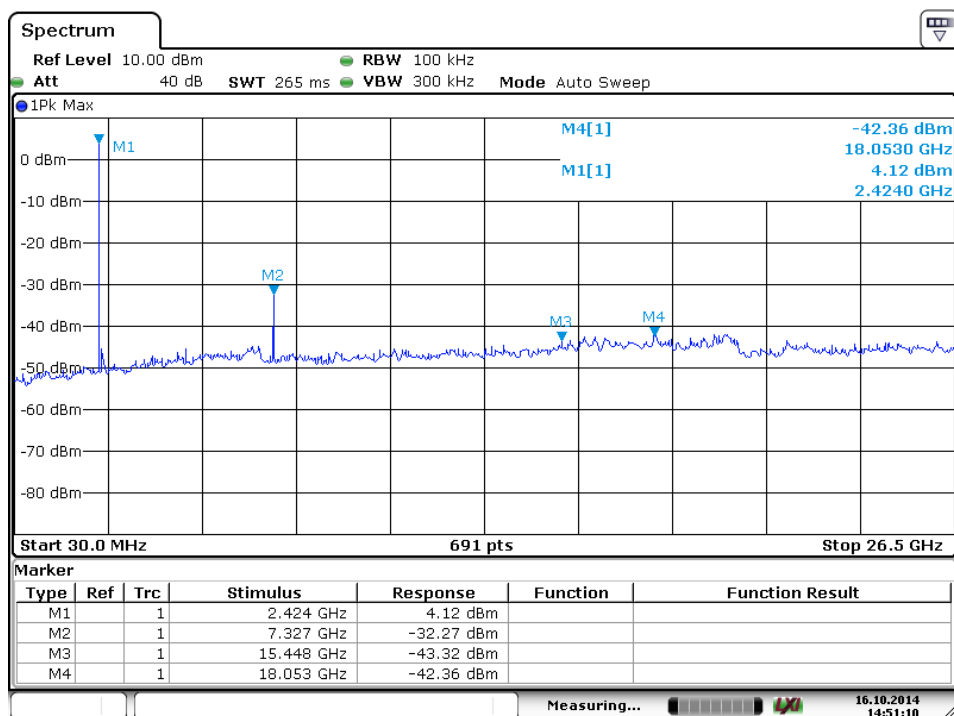
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low Channel



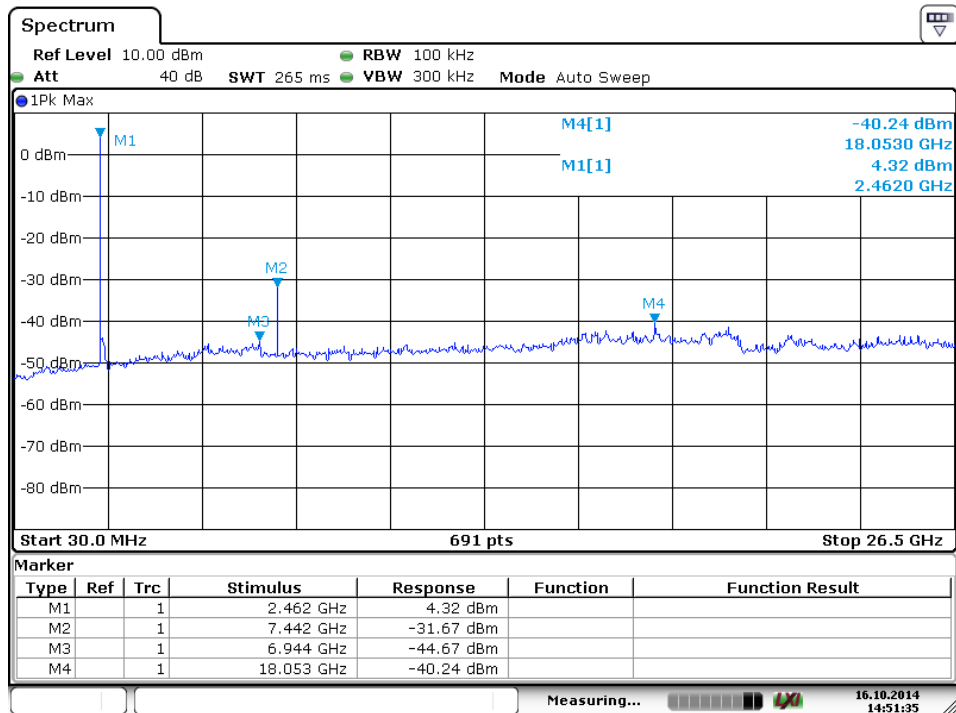
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Middle Channel

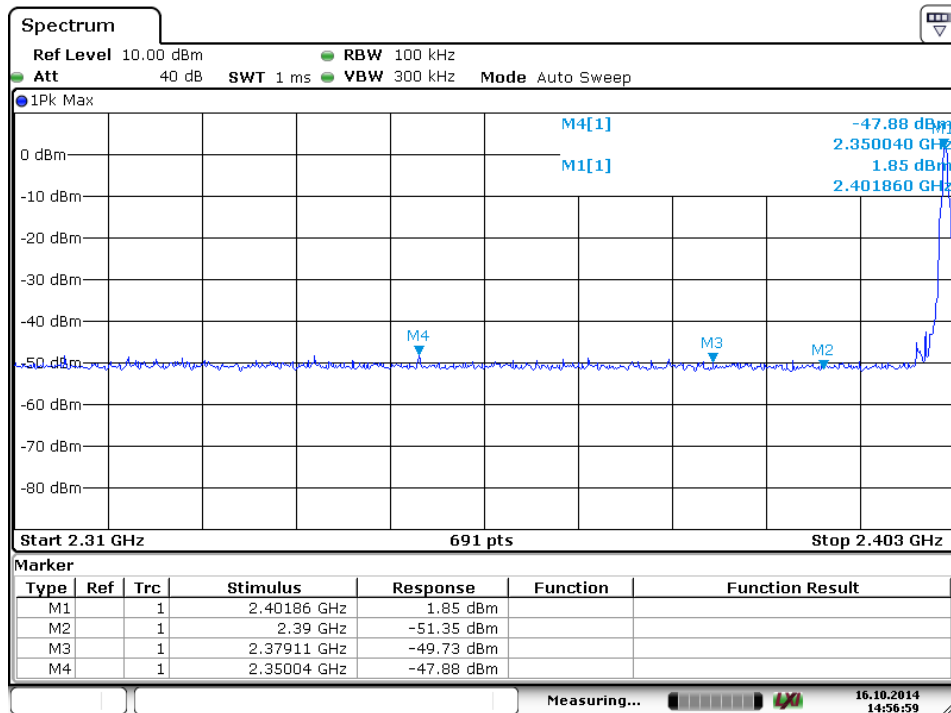


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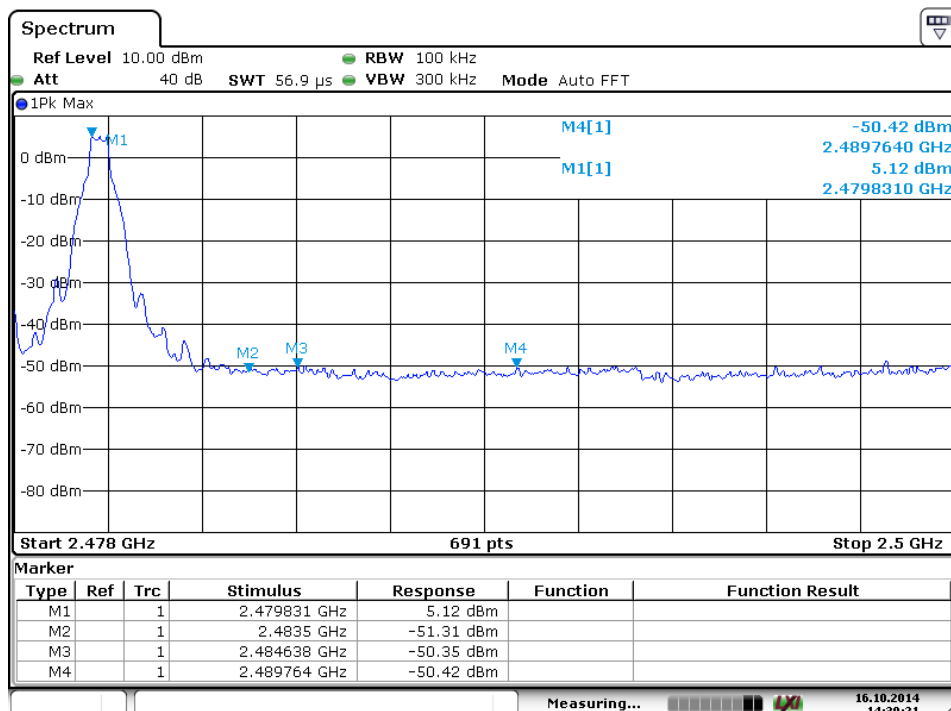
High Channel



Date: 16.OCT.2014 14:51:36

Band Edge


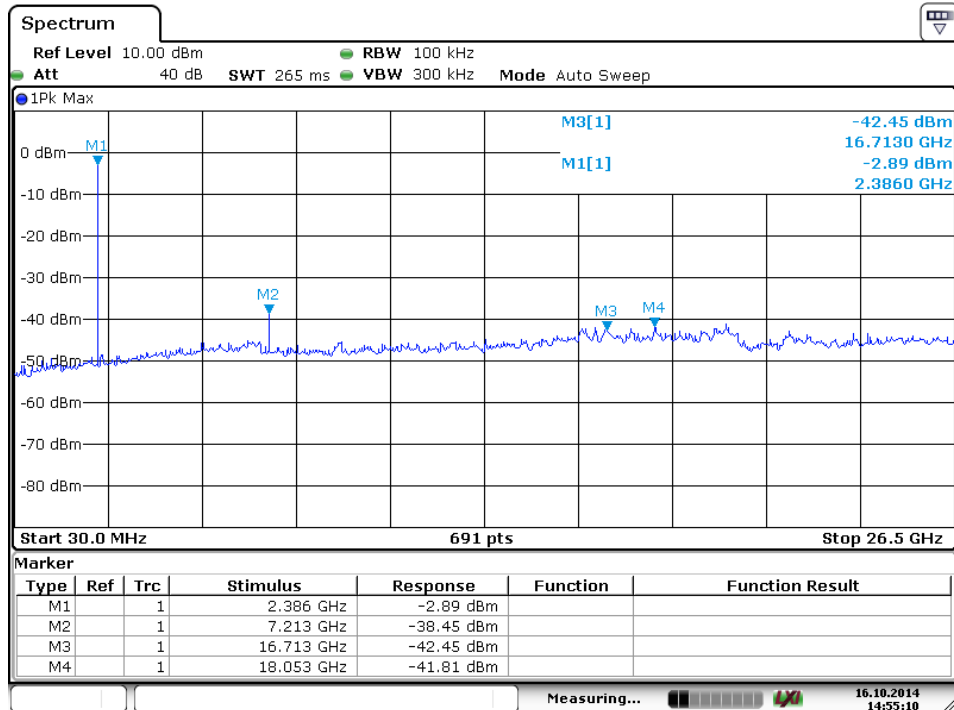
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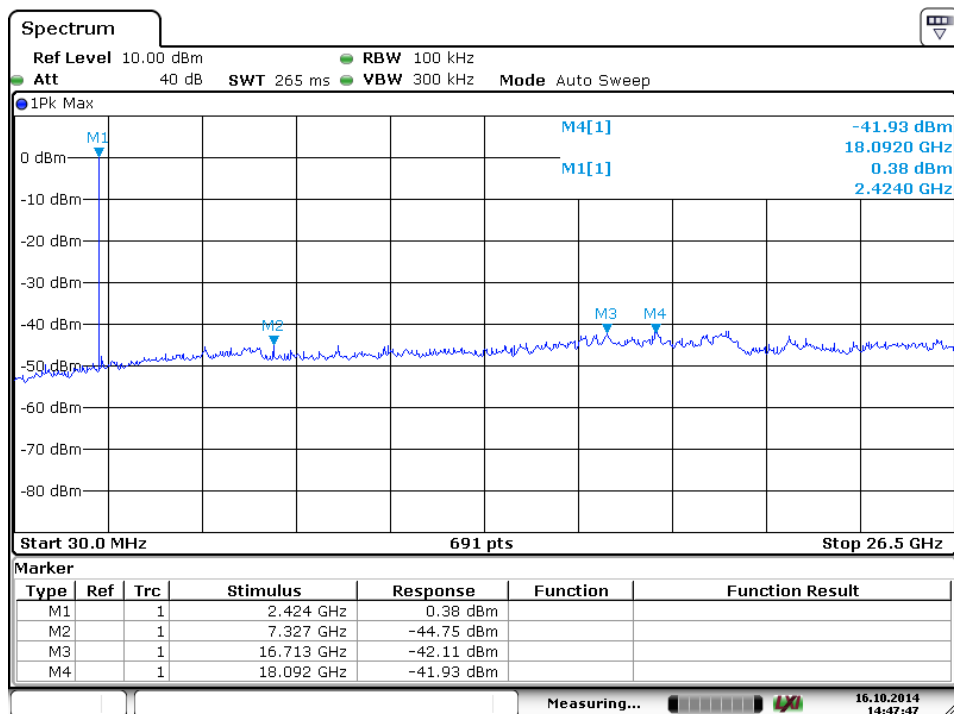
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low Channel



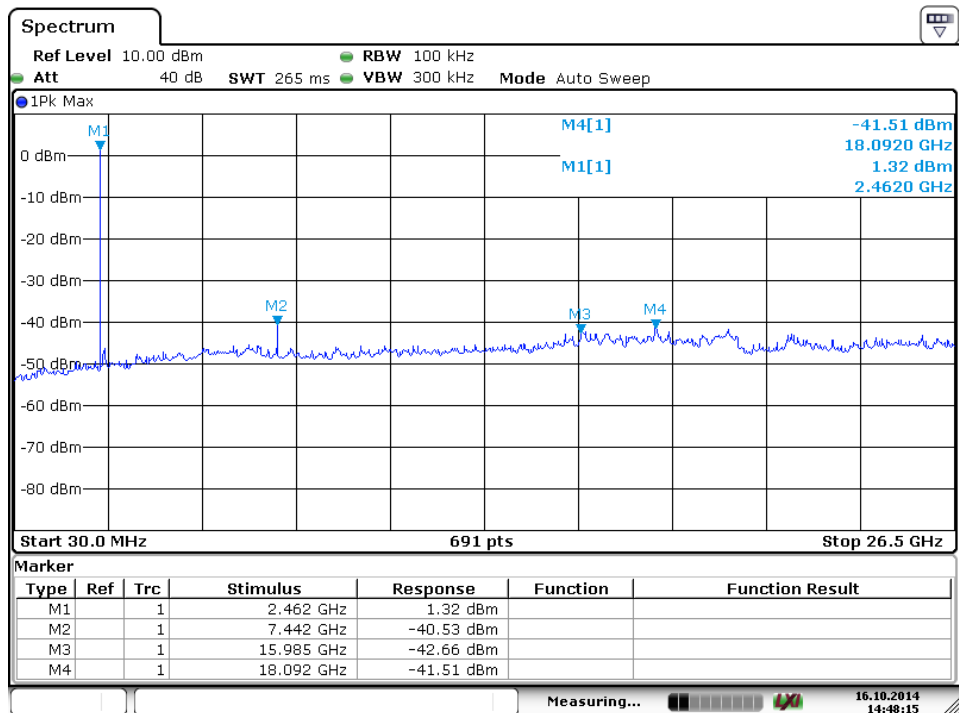
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Middle Channel

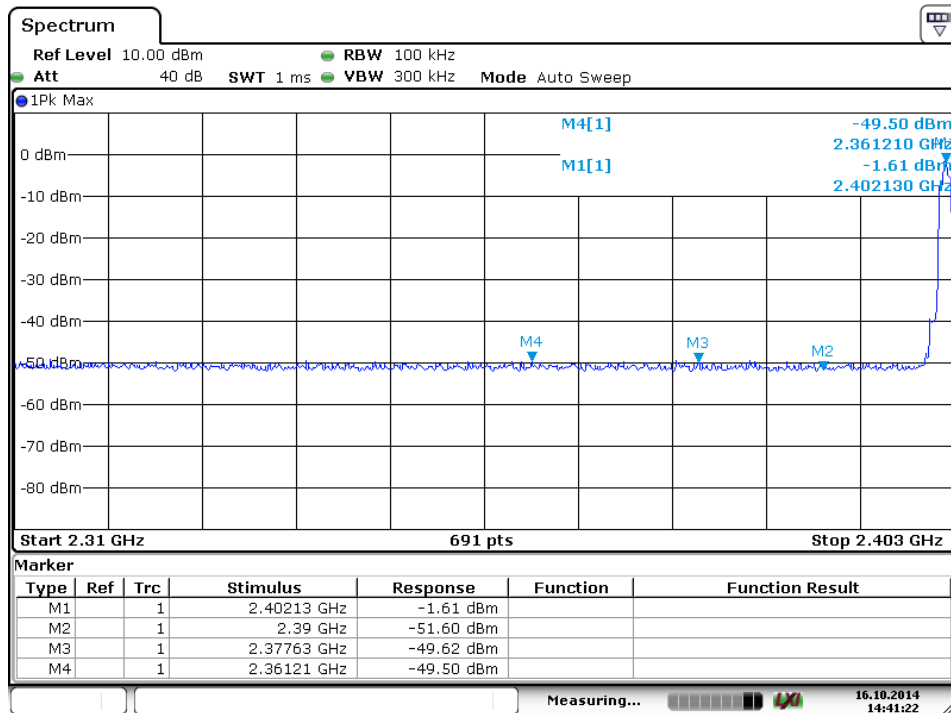


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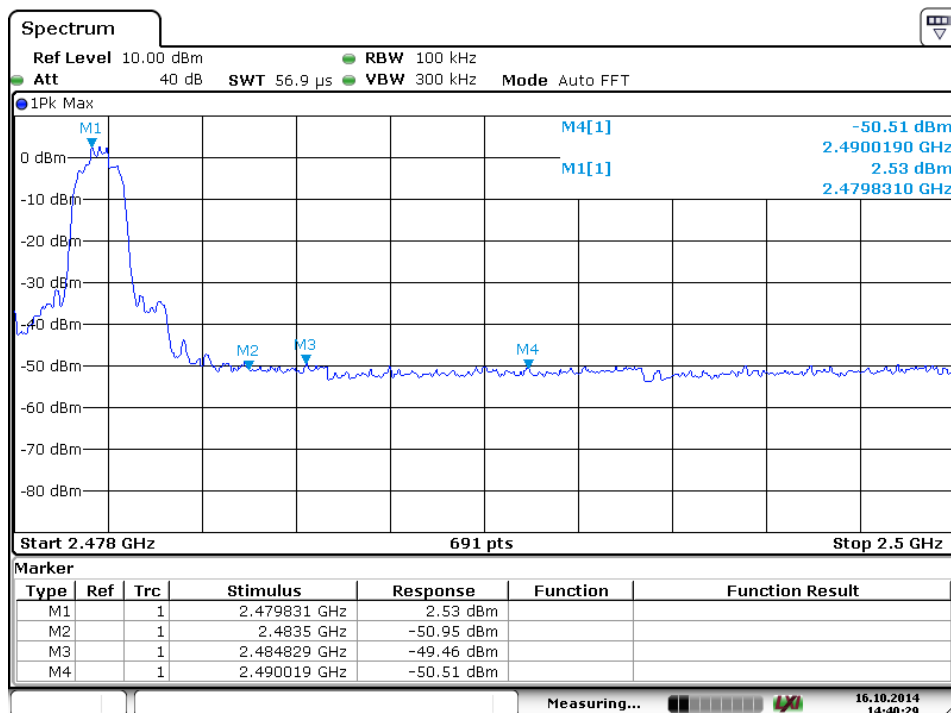
High Channel



Date: 16.OCT.2014 14:48:15

Band Edge


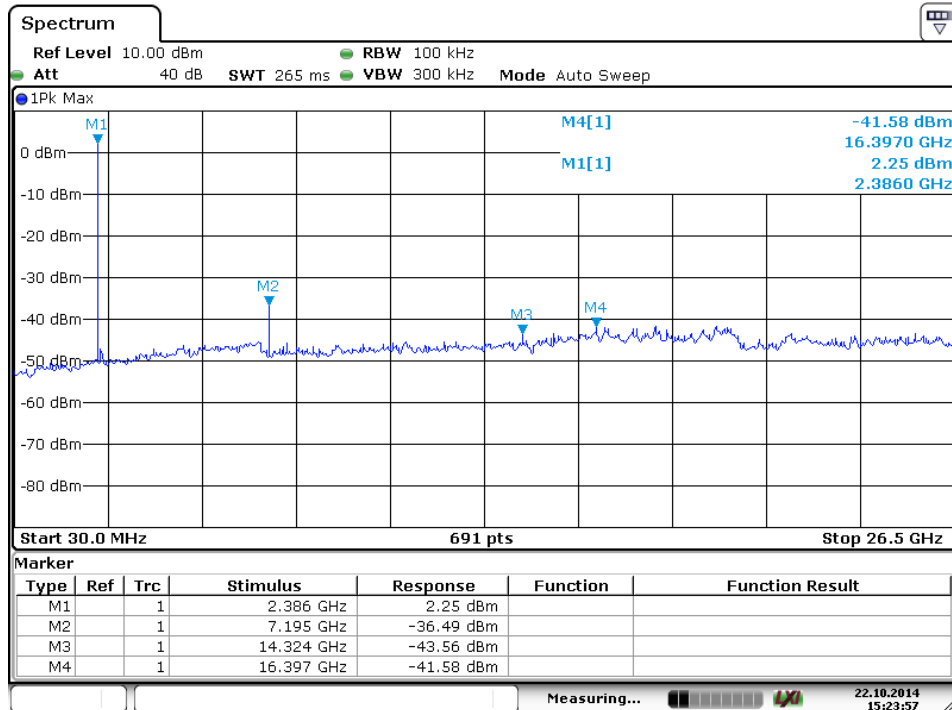
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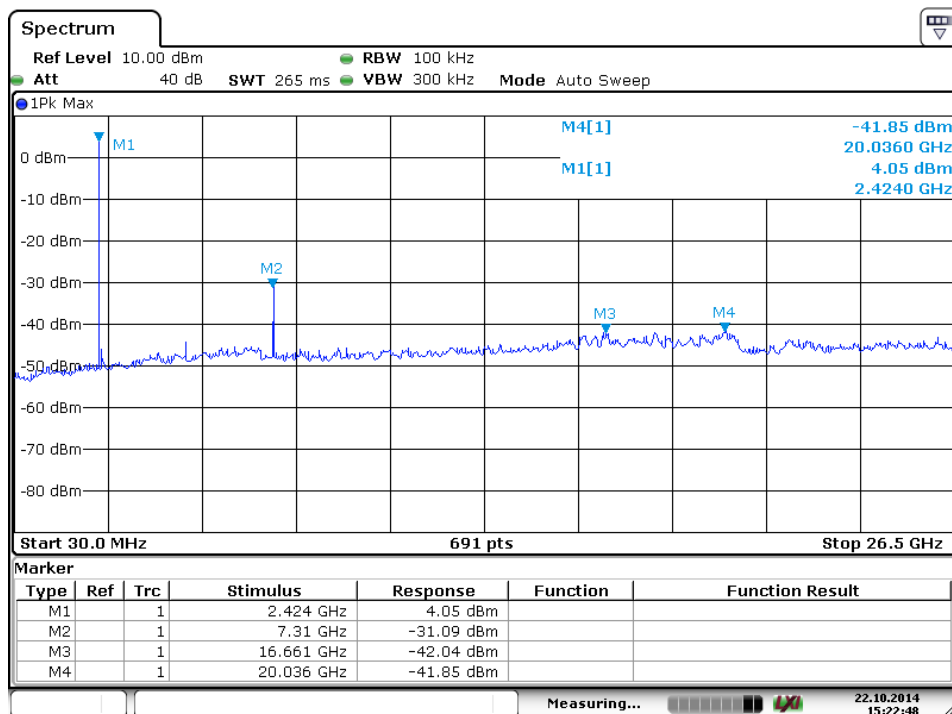
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of LE mode

Low Channel



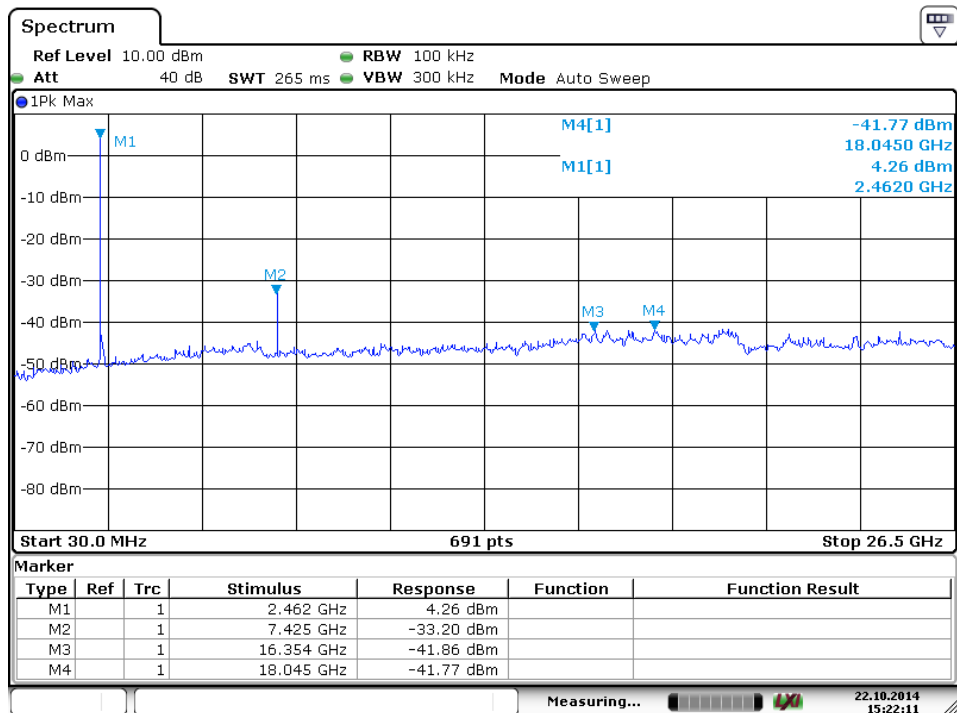
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Middle Channel

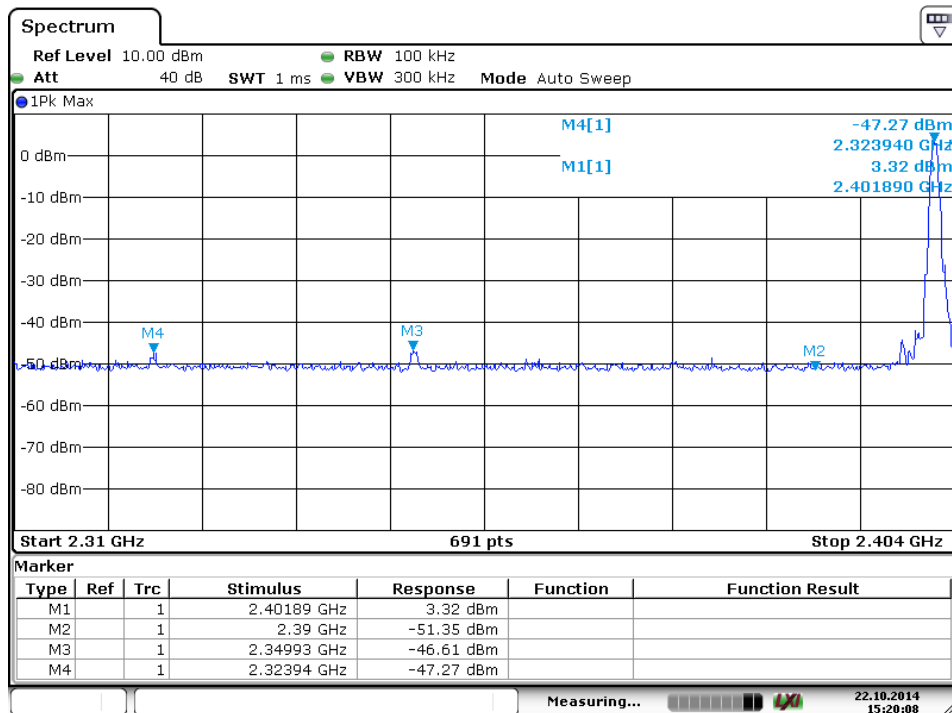


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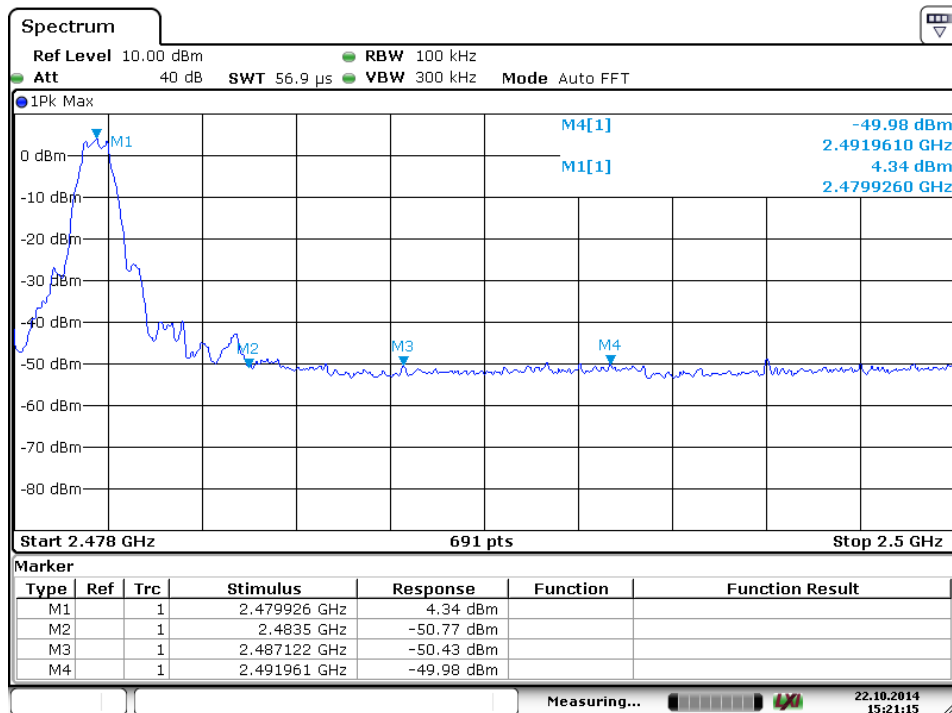
High Channel



Date: 22.OCT.2014 15:22:11

Band Edge


Date: 22.OCT.2014 15:20:08



Date: 22.OCT.2014 15:21:15

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5.1.6 Power spectral density**RESULT:****Pass**

Date of testing : 2014-10-22
Test standard : FCC part 15.247(e)
Basic standard : ANSI C63.4: 2003
Clause 10 of KDB 558074 v03r01
Limit : 8dBm/3kHz
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.2.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 13: Test result of power spectral density:

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-12.03	8	Pass
	2440	-11.28	8	Pass
	2480	-10.96	8	Pass

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Test Report No.

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5.1.7 Spurious Emission

RESULT:**Pass**

Date of testing : 2014-10-22
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Clause 11 of KDB 558074 v03r01
Limits : FCC part 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1.a, A.2.a
Ambient temperature : 23°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

For details refer to following test plot.

Test Plot of Spurious Emission of transmitting

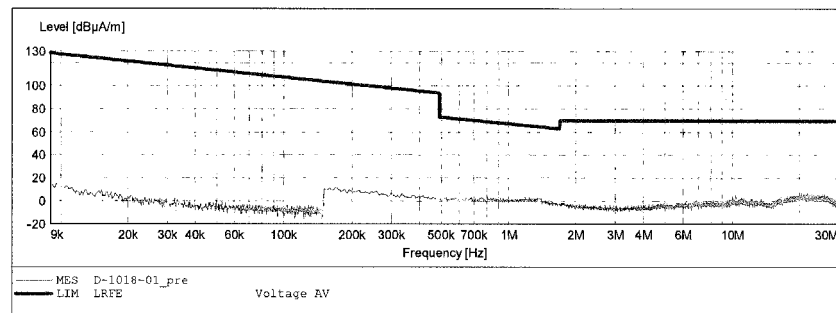
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



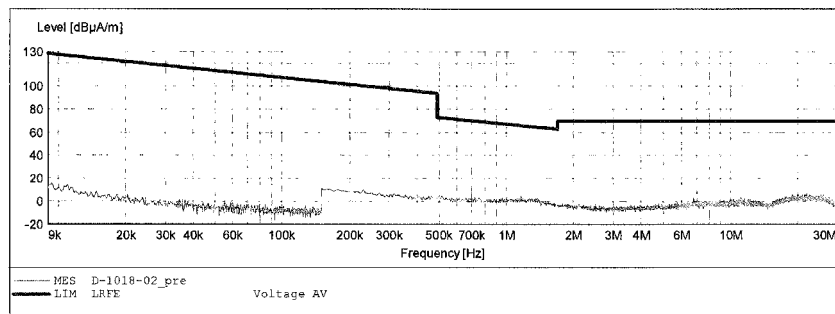
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



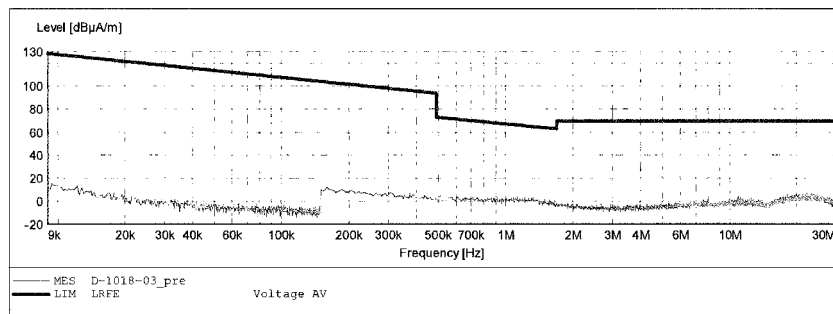
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



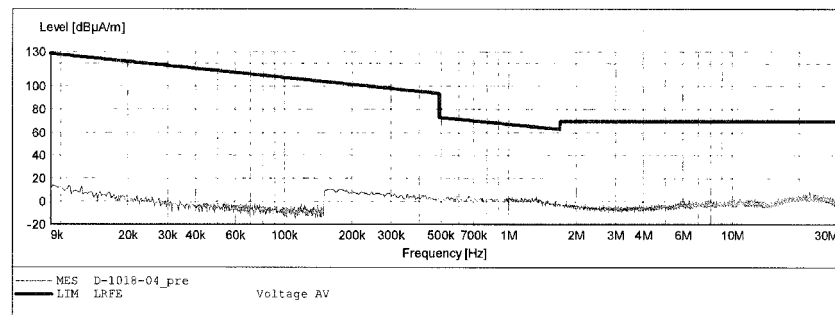
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2441MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



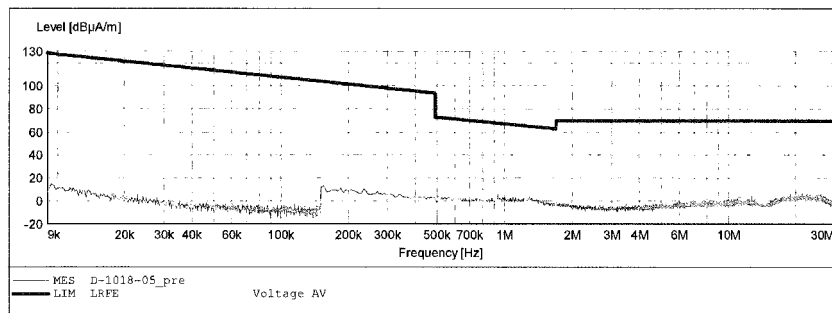
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2441MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description: SUB_STD_VTERM2 1.70						
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



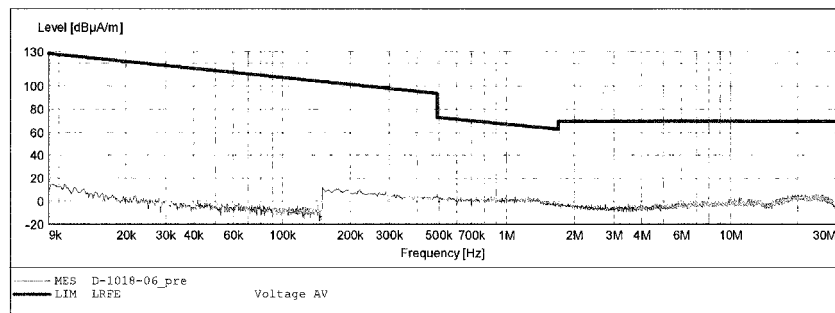
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2441MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



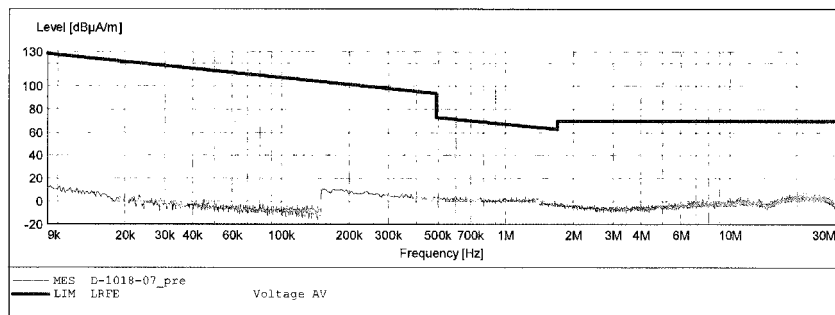
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



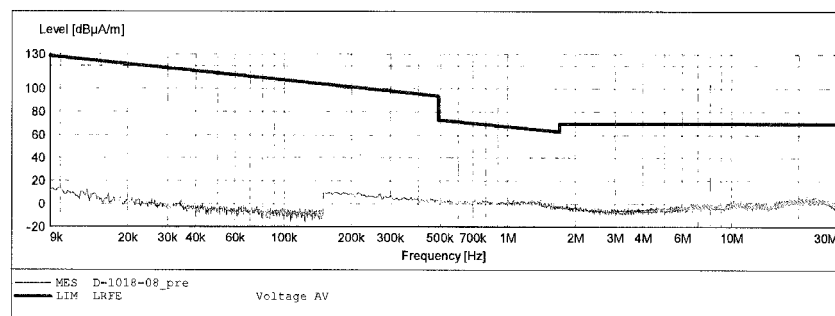
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



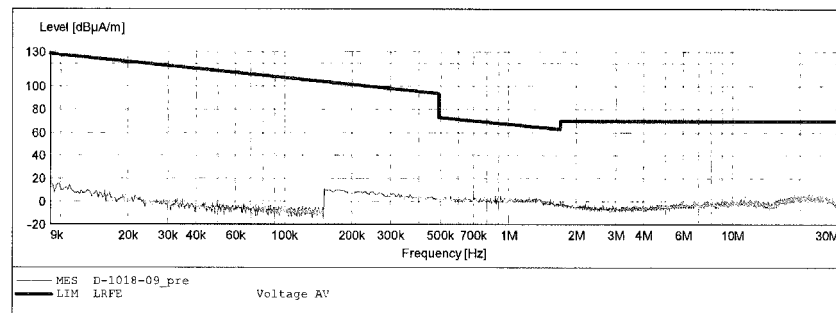
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M




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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1148

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

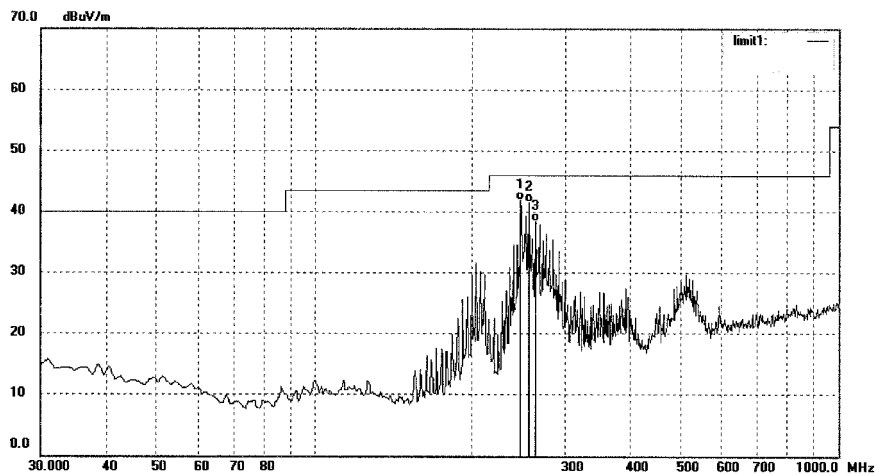
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.2800	54.74	-12.83	41.91	46.00	-4.09	QP			
2	256.0100	54.31	-12.82	41.49	46.00	-4.51	QP			
3	263.7700	51.05	-12.62	38.43	46.00	-7.57	QP			


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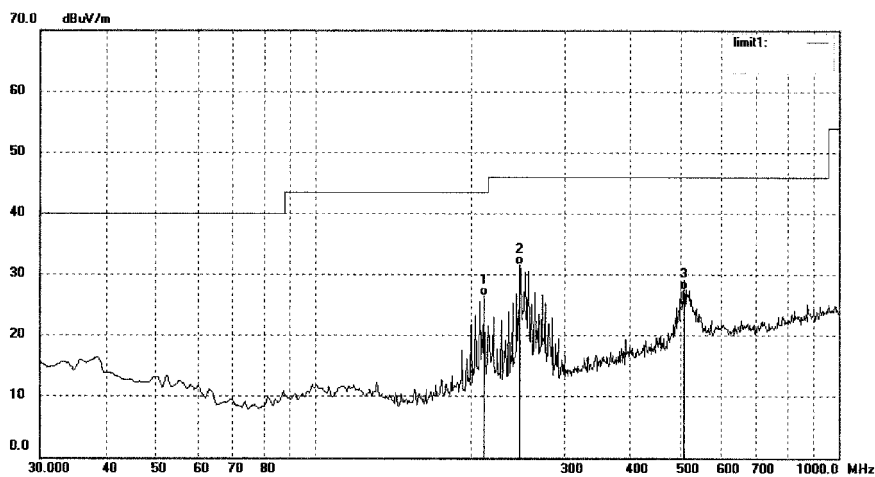
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1149
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2402MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	211.3899	40.51	-13.96	26.55	43.50	-16.95	QP			
2	247.2800	44.48	-12.83	31.65	46.00	-14.35	QP			
3	508.2099	35.37	-7.88	27.49	46.00	-18.51	QP			


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Fax:+86-0755-26503396

Job No.: LAN2014 #1151

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2441MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

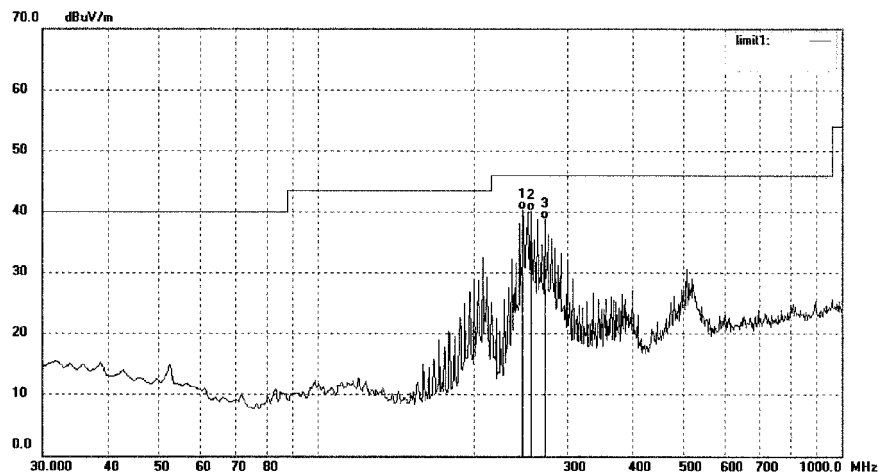
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.2800	53.19	-12.83	40.36	46.00	-5.64	QP			
2	256.0099	52.94	-12.82	40.12	46.00	-5.88	QP			
3	271.5298	51.07	-12.29	38.78	46.00	-7.22	QP			

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Fax:+86-0755-26503396

Job No.: LAN2014 #1150

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2441MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

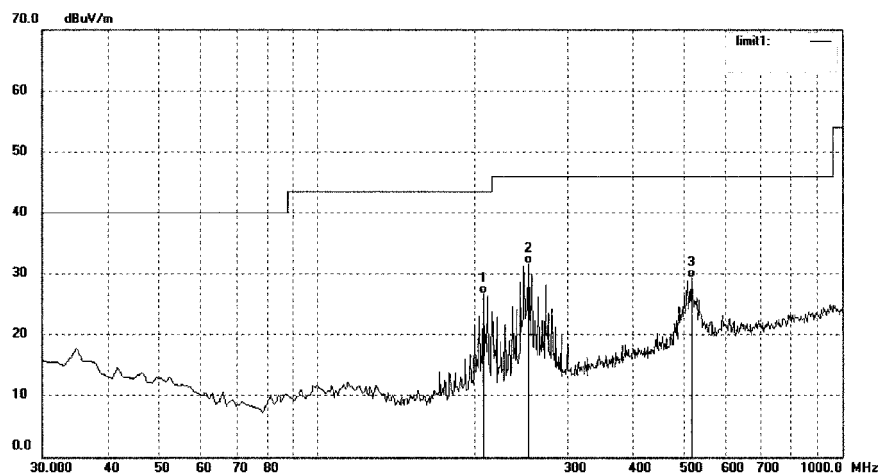
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	207.5098	40.68	-14.07	26.61	43.50	-16.89	QP			
2	252.1298	44.34	-12.81	31.53	46.00	-14.47	QP			
3	515.9699	37.07	-7.79	29.28	46.00	-16.72	QP			


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Fax:+86-0755-26503396

Job No.: LAN2014 #1152

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2480MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

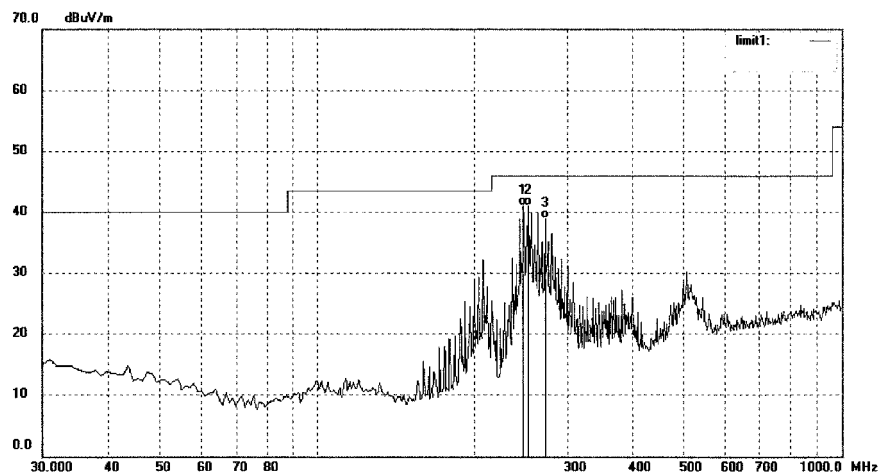
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.2800	53.95	-12.83	41.12	46.00	-4.88	QP			
2	252.1299	53.83	-12.81	41.02	46.00	-4.98	QP			
3	271.5299	51.23	-12.29	38.94	46.00	-7.06	QP			


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Site: 2# Chamber

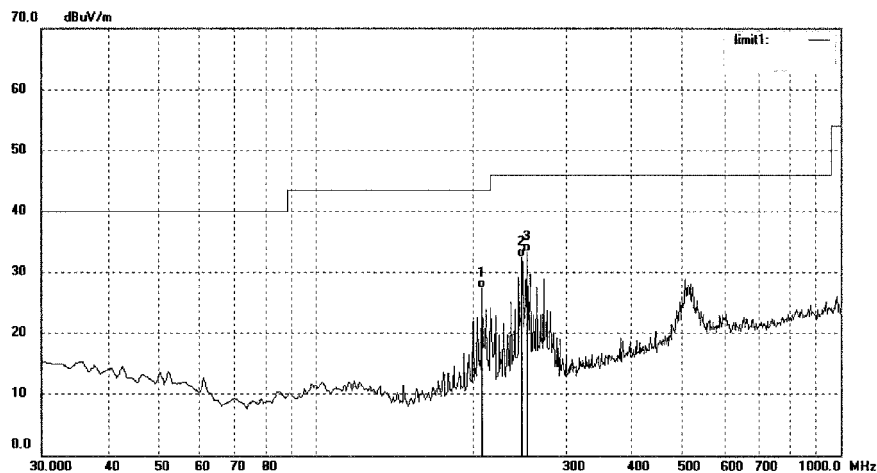
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1153
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2480MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	207.5099	41.38	-14.07	27.31	43.50	-16.19	QP			
2	247.2800	45.36	-12.83	32.53	46.00	-13.47	QP			
3	252.1299	46.14	-12.81	33.33	46.00	-12.67	QP			

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Site: 2# Chamber

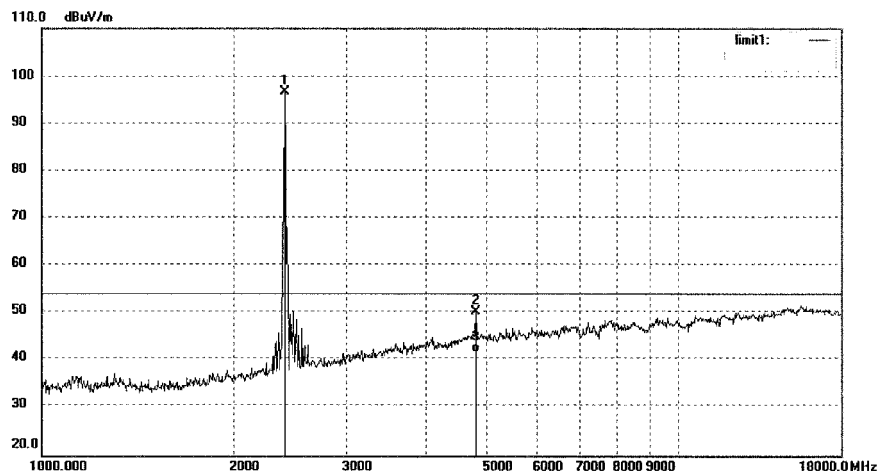
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1107
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2402MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/10/16/
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	103.98	-7.45	96.53	/	/	peak			
2	4804.012	50.58	-0.30	50.28	74.00	-23.72	peak			
3	4804.012	42.07	-0.30	41.77	54.00	-12.23	AVG			


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Fax:+86-0755-26503396

Job No.: LAN2014 #1108

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

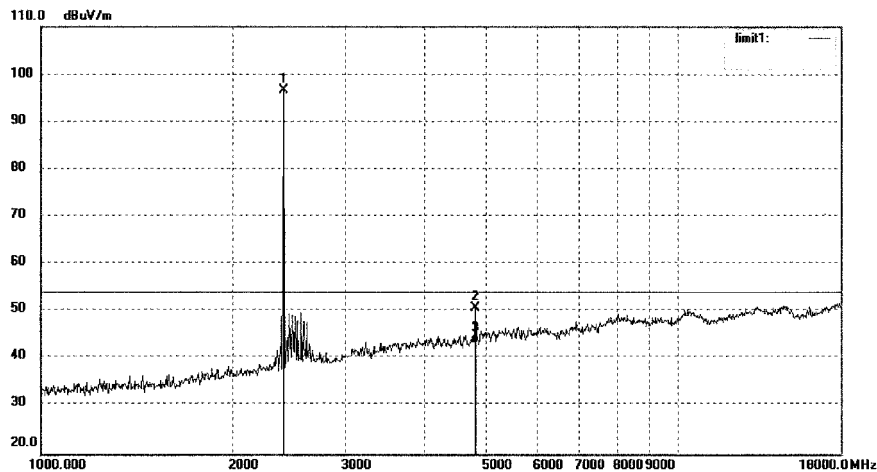
Date: 14/10/16/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	103.98	-7.45	96.53	/	/	peak			
2	4804.008	51.06	-0.30	50.76	74.00	-23.24	peak			
3	4804.008	43.55	-0.30	43.25	54.00	-10.75	AVG			


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Job No.: LAN2014 #1112

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2441MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

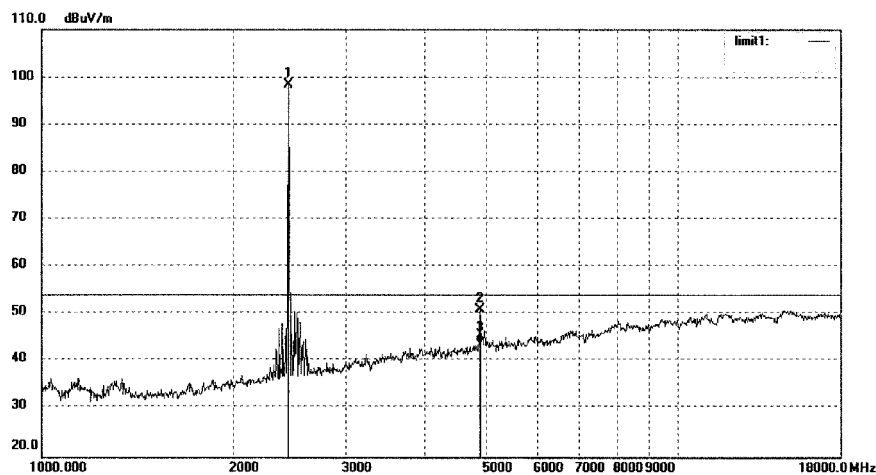
Date: 14/10/16/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	105.85	-7.35	98.50	/	/	peak			
2	4882.031	50.70	0.14	50.84	74.00	-23.16	peak			
3	4882.031	43.78	0.14	43.92	54.00	-10.08	AVG			


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Site: 2# Chamber

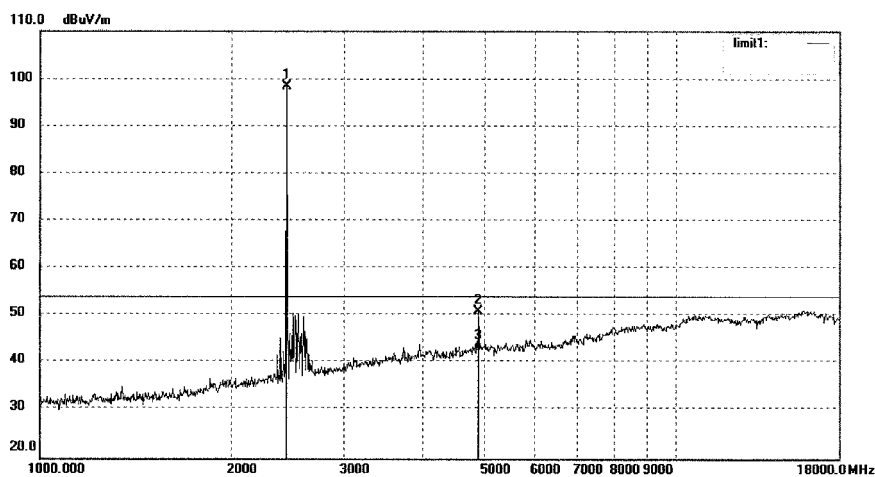
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1113
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2441MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Vertical
 Power Source: DC 3.7V
 Date: 14/10/16/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	105.85	-7.35	98.50	/	/	peak			
2	4882.011	50.75	0.14	50.89	74.00	-23.11	peak			
3	4882.011	42.55	0.14	42.69	54.00	-11.31	AVG			


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Site: 2# Chamber

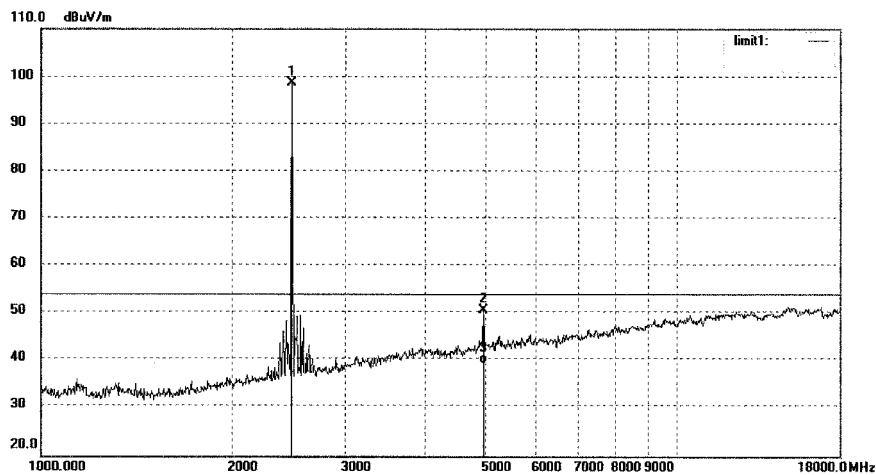
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1115
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2480MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 14/10/16/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	105.91	-7.37	98.54	/	/	peak			
2	4960.034	50.26	0.52	50.78	74.00	-23.22	peak			
3	4960.034	38.98	0.52	39.50	54.00	-14.50	AVG			


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

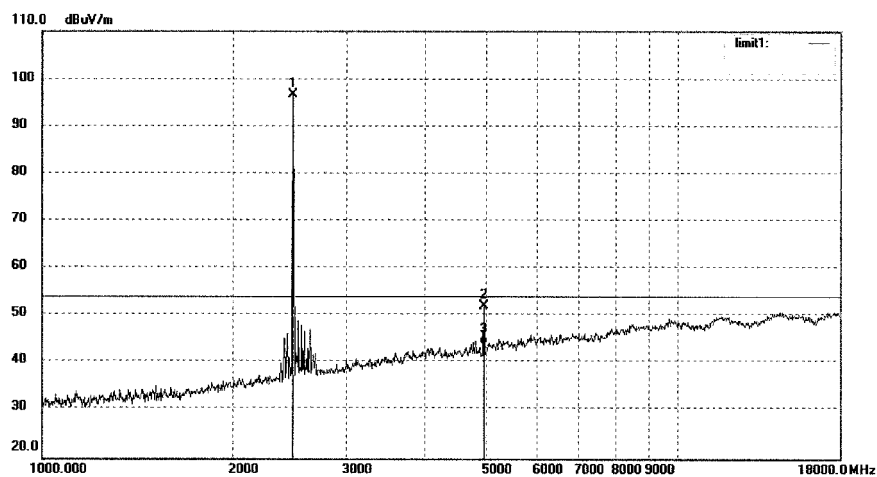
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1114
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2480MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Vertical
 Power Source: DC 3.7V
 Date: 14/10/16/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	103.91	-7.37	96.54	/	/	peak			
2	4960.027	51.45	0.52	51.97	74.00	-22.03	peak			
3	4960.027	43.33	0.52	43.85	54.00	-10.15	AVG			

Prüfbericht - Nr.: 17044019 001
Test Report No.
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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1174

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

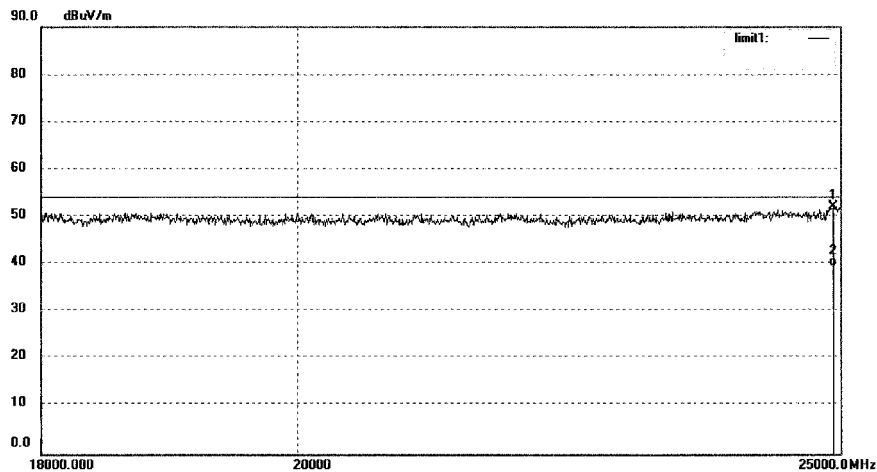
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24934.254	33.27	18.81	52.08	74.00	-21.92	peak			
2	24934.254	20.63	18.81	39.44	54.00	-14.56	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1175

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

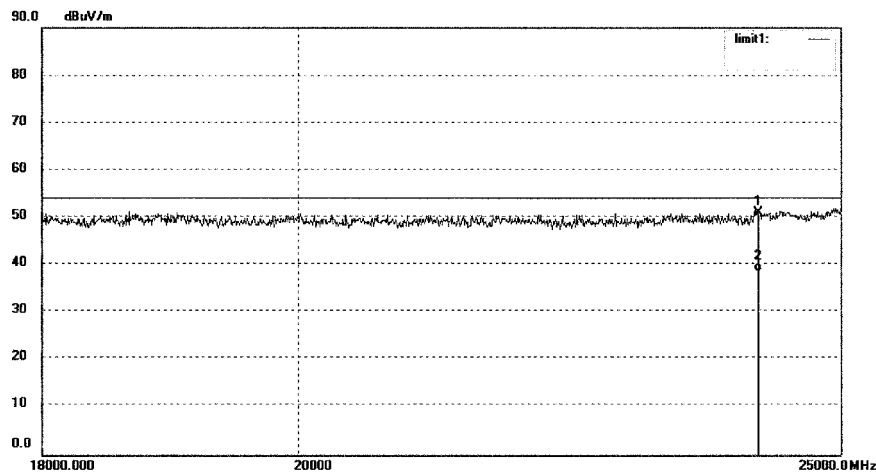
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



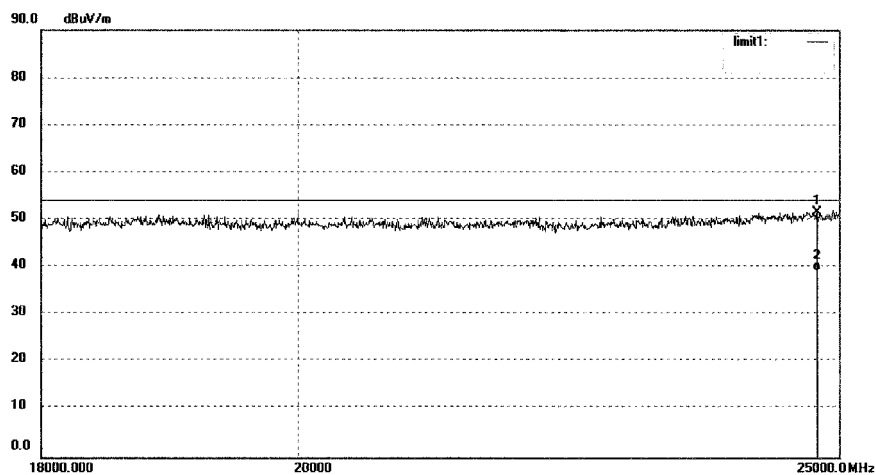
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24166.614	33.55	17.40	50.95	74.00	-23.05	peak			
2	24166.614	21.24	17.40	38.64	54.00	-15.36	AVG			


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 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: LAN2014 #1177	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2014-10-22
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Hipper-B	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MG-BTS01	
Manufacturer: Compupal (Group) Corporation	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24778.800	33.07	18.59	51.66	74.00	-22.34	peak			
2	24778.800	20.63	18.59	39.22	54.00	-14.78	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1176

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2441MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

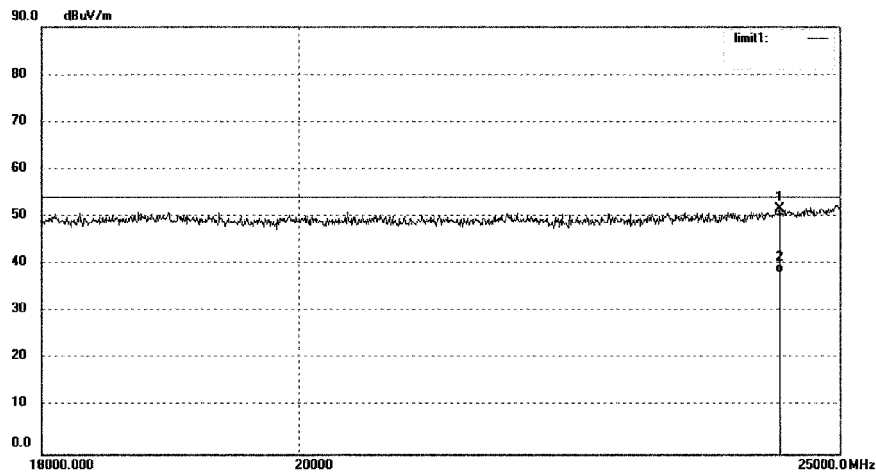
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24390.376	33.74	17.94	51.68	74.00	-22.32	peak			
2	24390.376	20.17	17.94	38.11	54.00	-15.89	AVG			


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Site: 2# Chamber

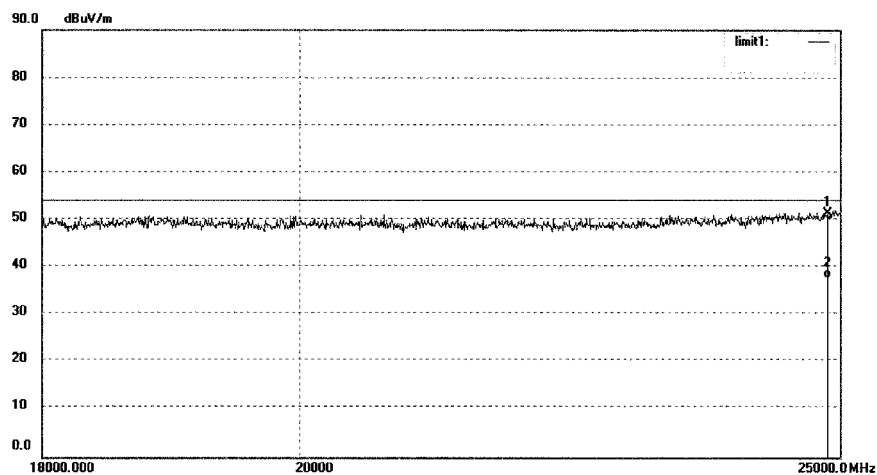
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1178
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2480MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014-10-22
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24876.868	32.78	18.73	51.51	74.00	-22.49	peak			
2	24876.868	19.05	18.73	37.78	54.00	-16.22	AVG			


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Site: 2# Chamber

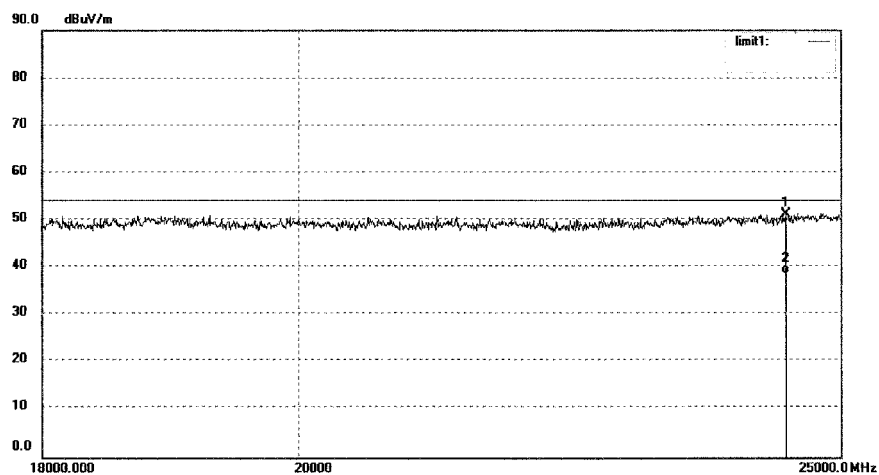
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1179
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2480MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Vertical
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24438.594	33.21	18.05	51.26	74.00	-22.74	peak			
2	24438.594	20.45	18.05	38.50	54.00	-15.50	AVG			

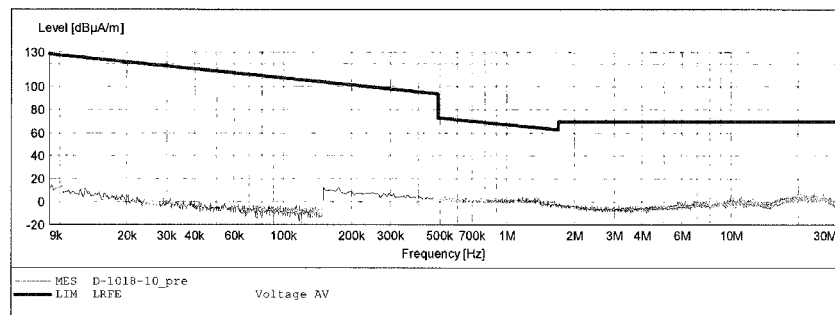
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



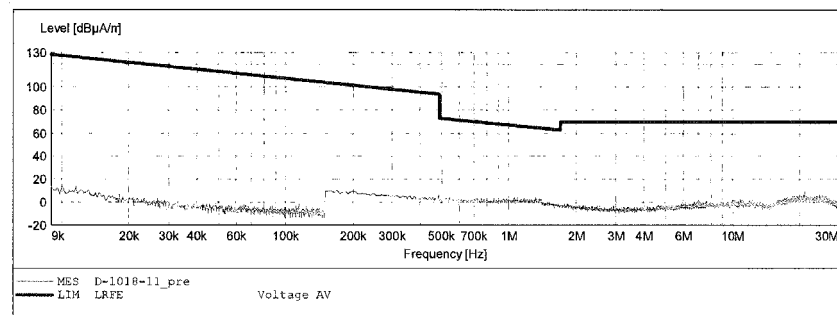
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



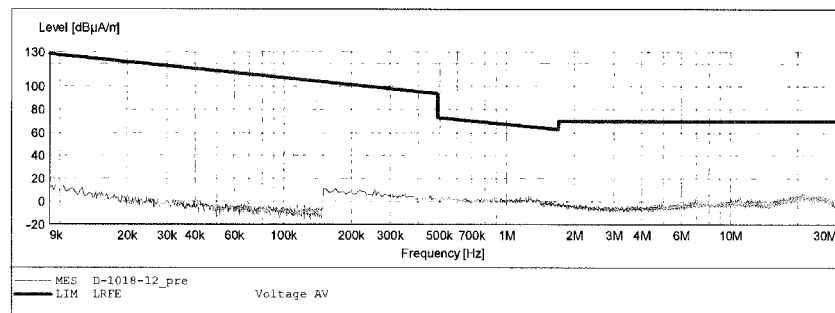
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70						
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



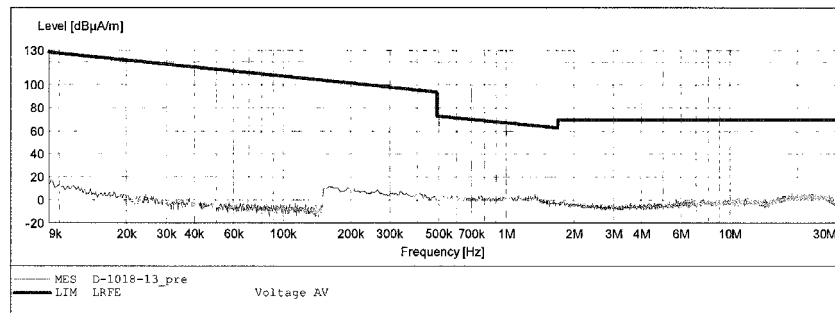
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2440MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:				SUB_STD_VTERM2 1.70		
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

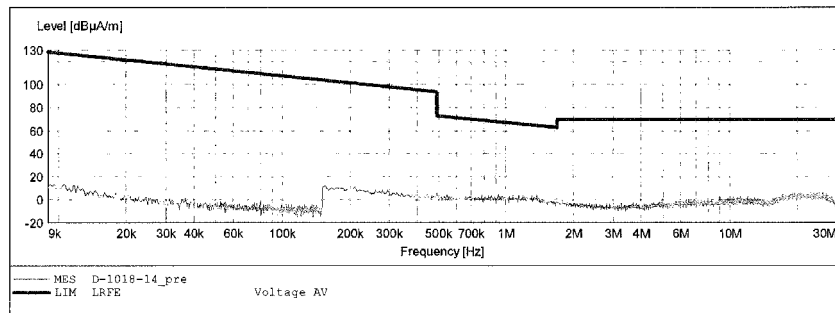


ACCURATE TECHNOLOGY CO., LTD.
FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2440MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



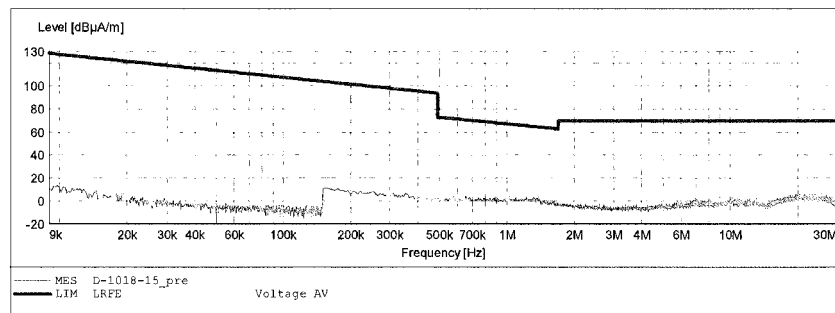
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2440MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



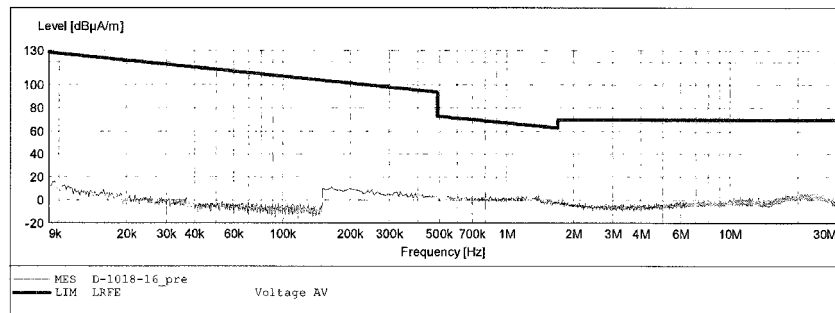
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



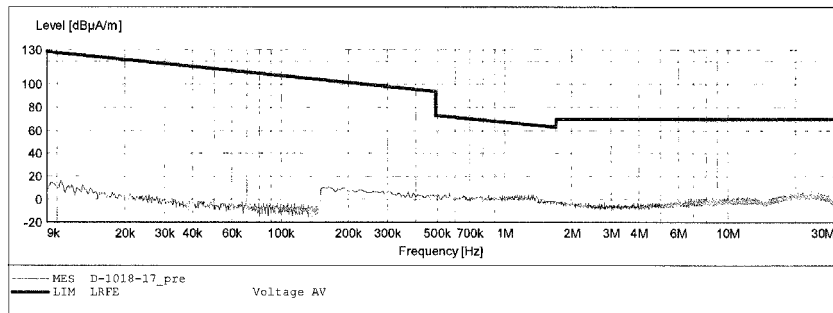
ACCURATE TECHNOLOGY CO., LTD.

FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description: SUB_STD_VTERM2 1.70				Detector	Meas. Time	IF Bandw.	Transducer
Start Frequency	Stop Frequency	Step Width					
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



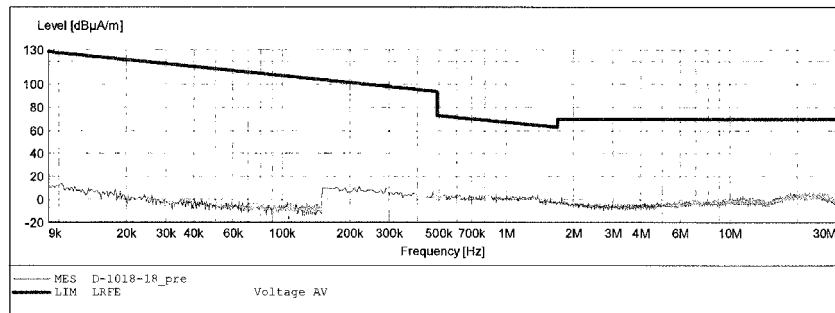
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FCC Class B 3M Radiated

EUT: Hipper-B M/N:MG-BTS01
 Manufacturer: Compupal (Group) Corporation
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2014-10-18 /

SCAN TABLE: "LFRE Fin"

Short Description:				_SUB_STD_VTERM2 1.70		
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M




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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1155

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

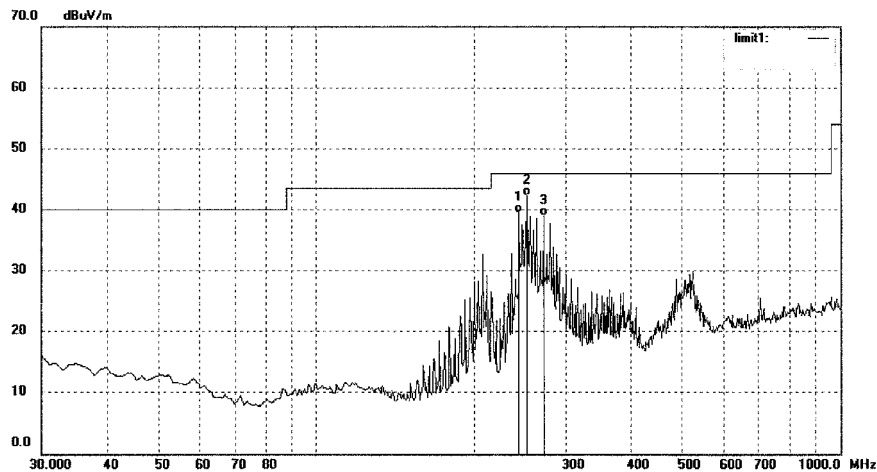
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	243.4000	52.40	-12.87	39.53	46.00	-6.47	QP			
2	252.1299	55.02	-12.81	42.21	46.00	-3.79	QP			
3	271.5298	51.30	-12.29	39.01	46.00	-6.99	QP			


ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1154

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

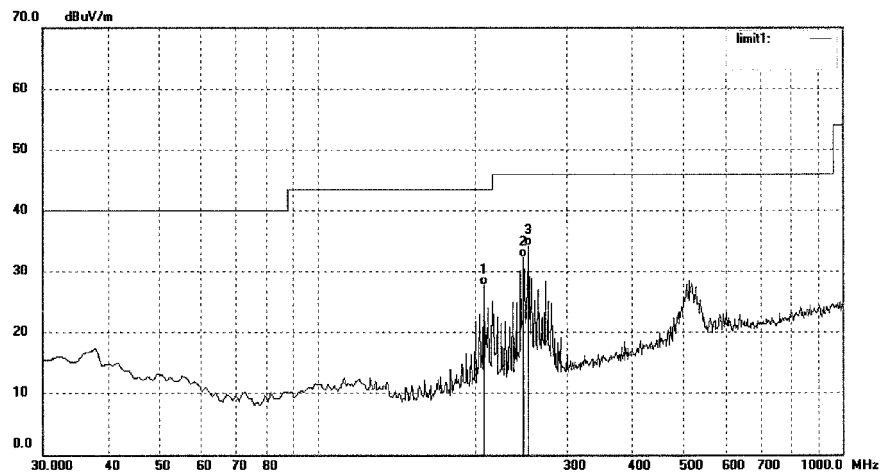
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	207.5099	41.73	-14.07	27.66	43.50	-15.84	QP			
2	247.2800	45.11	-12.83	32.28	46.00	-13.72	QP			
3	252.1299	47.03	-12.81	34.22	46.00	-11.78	QP			


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Site: 2# Chamber

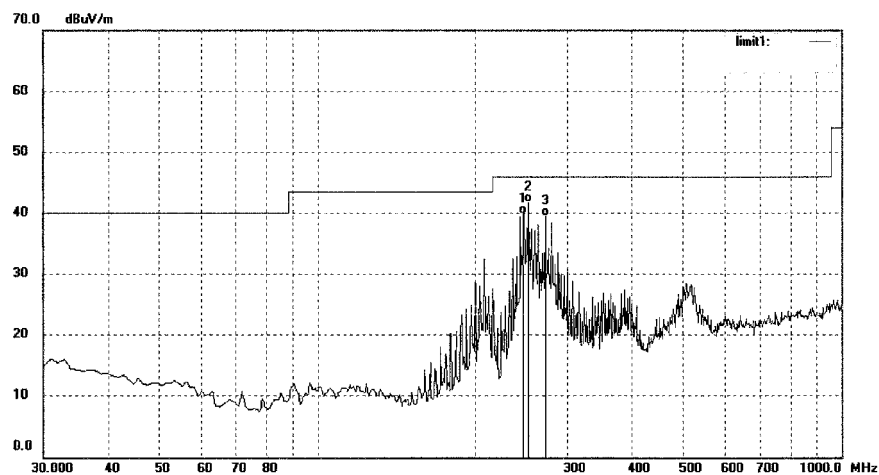
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1156
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2440MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.2800	52.71	-12.83	39.88	46.00	-6.12	QP			
2	252.1300	54.63	-12.81	41.82	46.00	-4.18	QP			
3	271.5298	51.80	-12.29	39.51	46.00	-6.49	QP			

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Test Report No.
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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

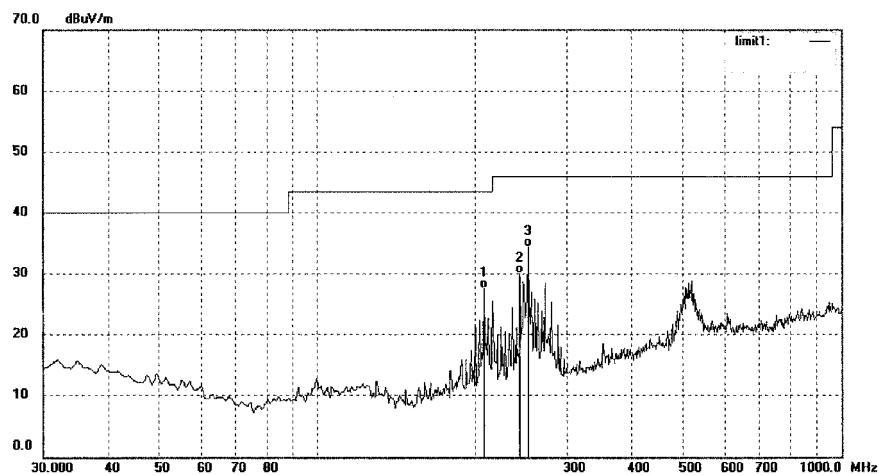
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1157
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2440MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	207.5099	41.71	-14.07	27.64	43.50	-15.86	QP			
2	243.4000	42.92	-12.87	30.05	46.00	-15.95	QP			
3	252.1299	47.27	-12.81	34.46	46.00	-11.54	QP			


ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1159

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2480MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

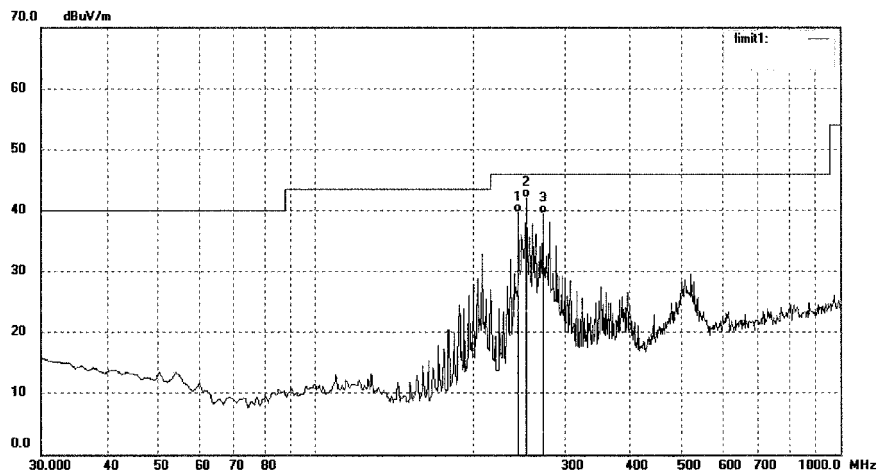
Date: 2014/10/17

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	243.4000	52.44	-12.87	39.57	46.00	-6.43	QP			
2	252.1300	54.82	-12.81	42.01	46.00	-3.99	QP			
3	271.5299	51.77	-12.29	39.48	46.00	-6.52	QP			


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Site: 2# Chamber

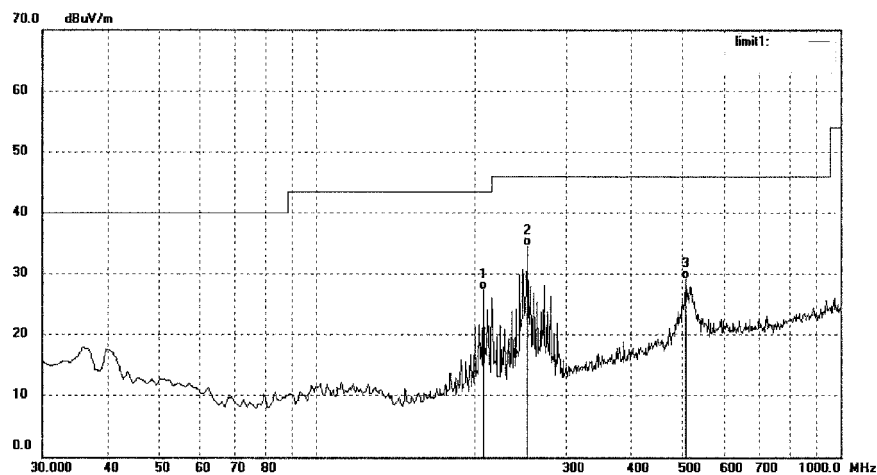
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1158
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2480MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	207.5099	41.39	-14.07	27.32	43.50	-16.18	QP			
2	252.1299	47.33	-12.81	34.52	46.00	-11.48	QP			
3	508.2099	37.10	-7.88	29.22	46.00	-16.78	QP			


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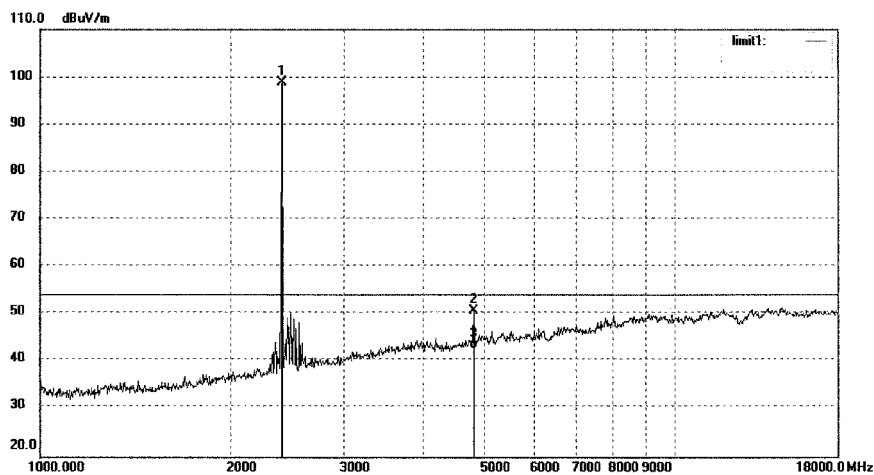
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1164
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2402MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	106.23	-7.45	98.78	/	/	peak			
2	4804.010	51.03	-0.30	50.73	74.00	-23.27	peak			
3	4804.010	42.97	-0.30	42.67	54.00	-11.33	AVG			


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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1165

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2402MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

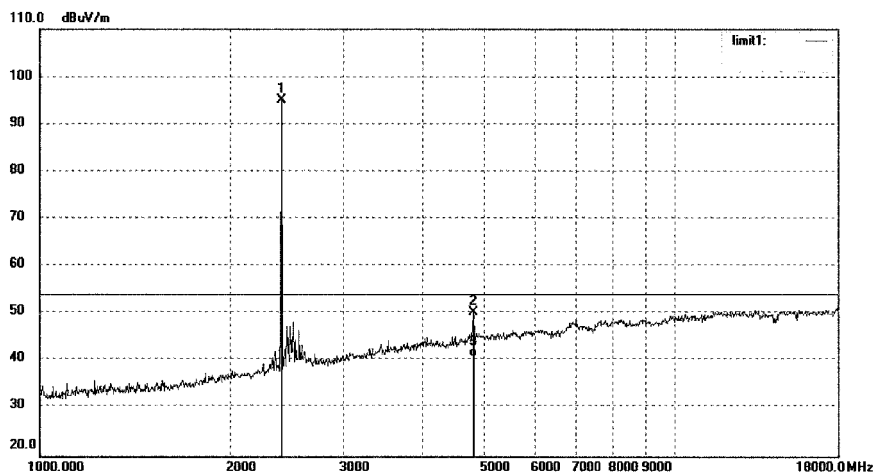
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	102.56	-7.45	95.11	/	/	peak			
2	4804.021	50.63	-0.30	50.33	74.00	-23.67	peak			
3	4804.021	41.04	-0.30	40.74	54.00	-13.26	AVG			


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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1167

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2440MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

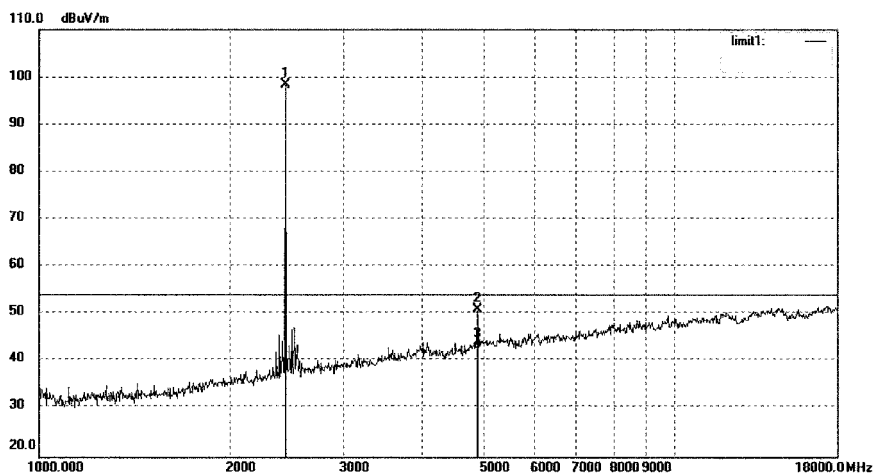
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	105.73	-7.36	98.37	/	/	peak			
2	4880.028	50.70	0.13	50.83	74.00	-23.17	peak			
3	4880.028	42.58	0.13	42.71	54.00	-11.29	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1166

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2440MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

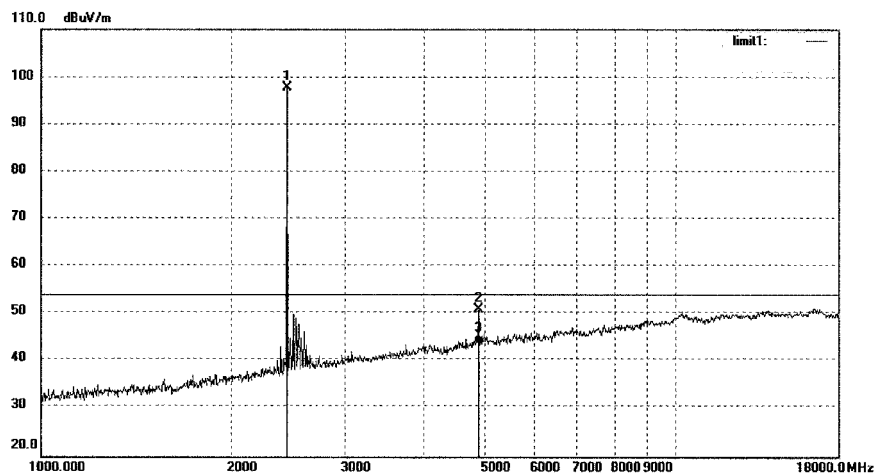
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	105.04	-7.36	97.68	/	/	peak			
2	4880.033	50.72	0.13	50.85	74.00	-23.15	peak			
3	4880.033	43.51	0.13	43.64	54.00	-10.36	AVG			


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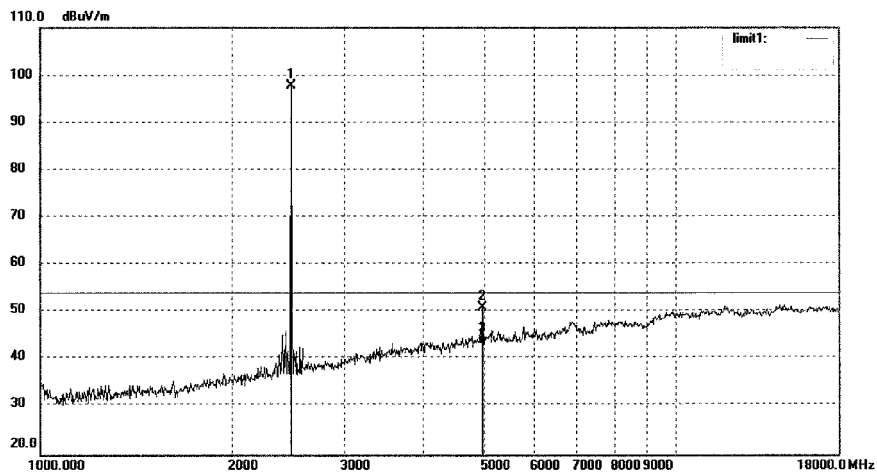
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: LAN2014 #1168
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2480MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	105.14	-7.37	97.77	/	/	peak			
2	4960.037	50.36	0.52	50.88	74.00	-23.12	peak			
3	4960.037	42.67	0.52	43.19	54.00	-10.81	AVG			

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Site: 2# Chamber

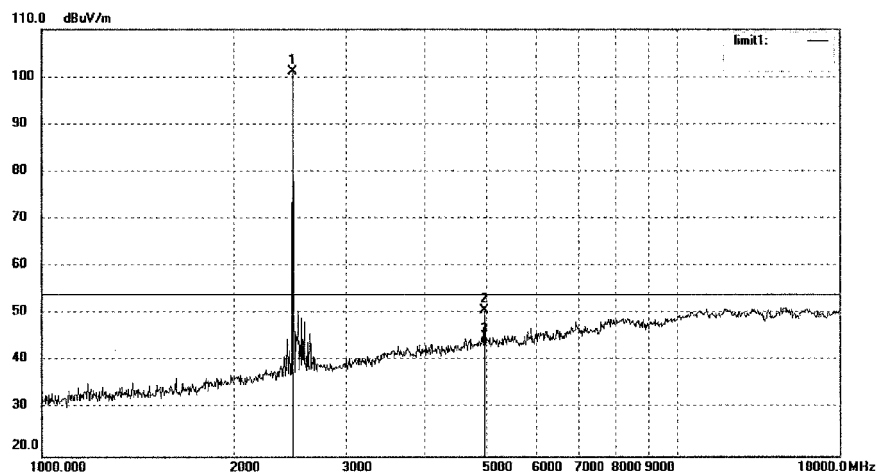
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1169
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2480MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Vertical
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	108.57	-7.37	101.20	/	/	peak			
2	4960.028	50.26	0.52	50.78	74.00	-23.22	peak			
3	4960.028	43.05	0.52	43.57	54.00	-10.43	AVG			


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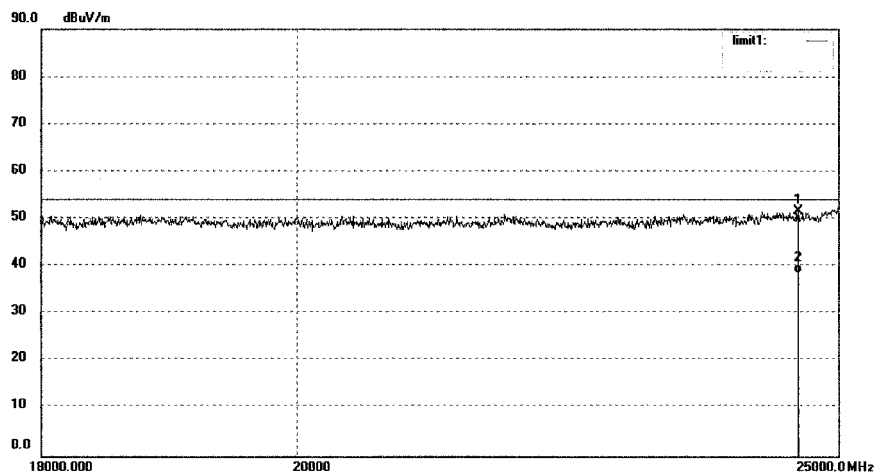
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1181
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2402MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24591.914	33.40	18.33	51.73	74.00	-22.27	peak			
2	24591.914	20.15	18.33	38.48	54.00	-15.52	AVG			


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Site: 2# Chamber

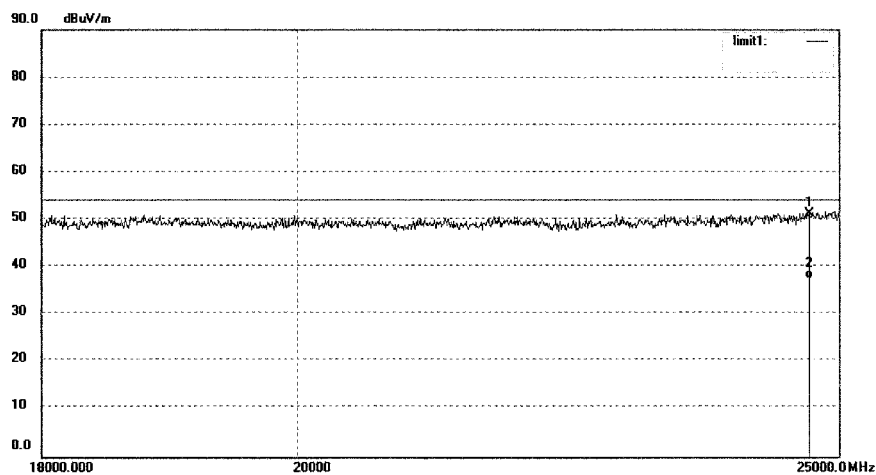
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1180
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2402MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014-10-22
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24697.371	32.80	18.48	51.28	74.00	-22.72	peak			
2	24697.371	18.99	18.48	37.47	54.00	-16.53	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1182

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2440MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

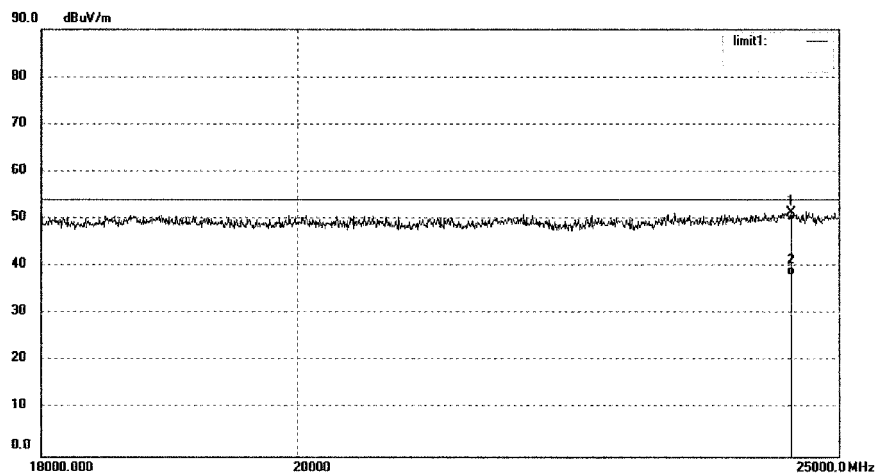
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24519.170	33.19	18.23	51.42	74.00	-22.58	peak			
2	24519.170	19.87	18.23	38.10	54.00	-15.90	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN2014 #1183

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2440MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

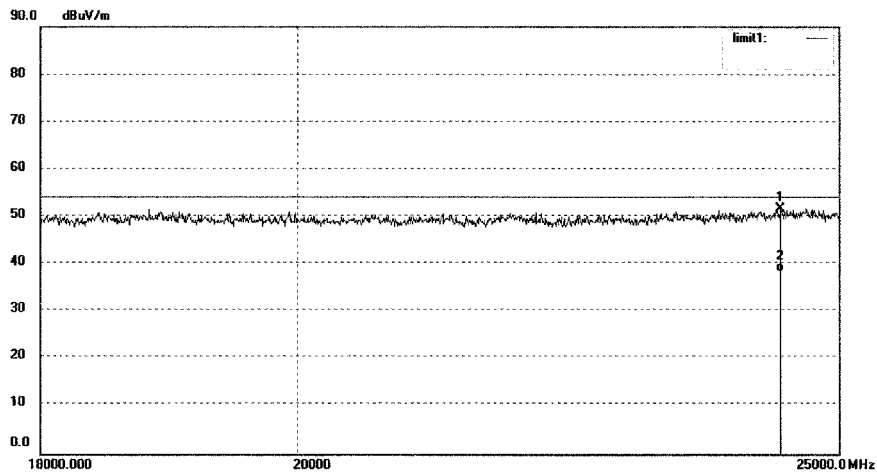
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24414.474	33.62	17.99	51.61	74.00	-22.39	peak			
2	24414.474	20.39	17.99	38.38	54.00	-15.62	AVG			


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Fax:+86-0755-26503396

Job No.: LAN2014 #1185

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2480MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal

Power Source: DC 3.7V

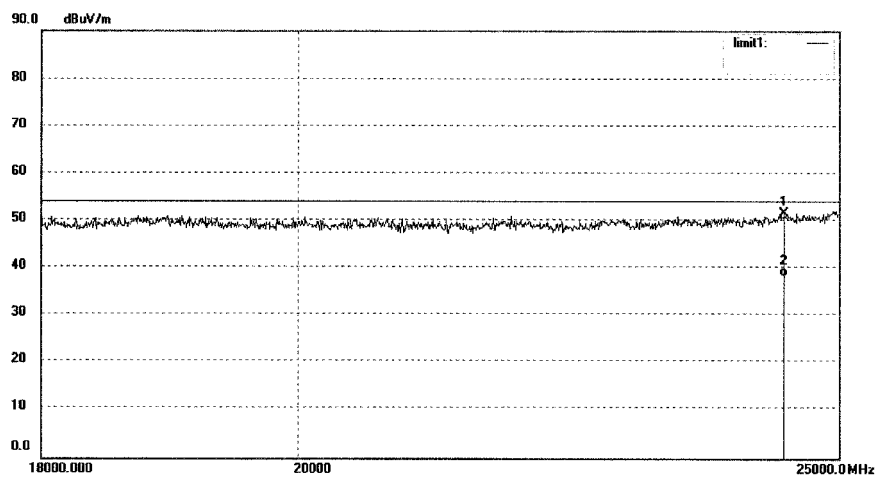
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24446.640	33.65	18.07	51.72	74.00	-22.28	peak			
2	24446.640	20.31	18.07	38.38	54.00	-15.62	AVG			

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Site: 2# Chamber

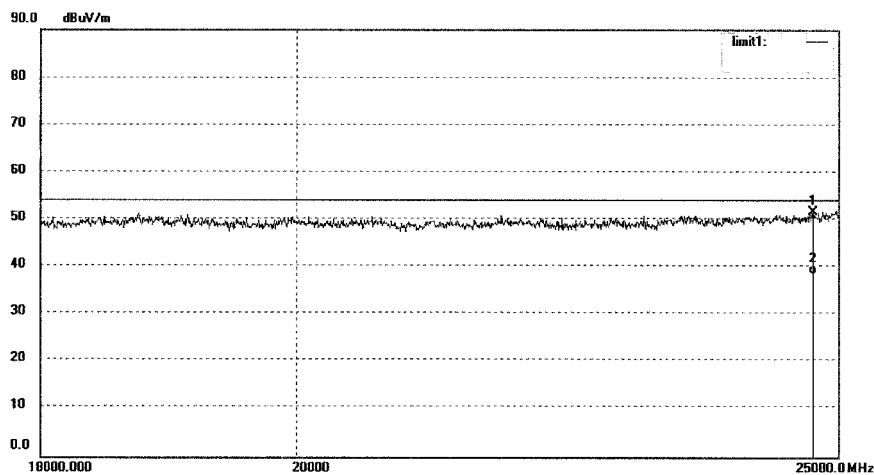
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1184
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2480MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014-10-22
Time:
Engineer Signature: PEI
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24746.196	33.18	18.54	51.72	74.00	-22.28	peak			
2	24746.196	19.96	18.54	38.50	54.00	-15.50	AVG			

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Test Plot of Frequency Band Edge


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Site: 2# Chamber

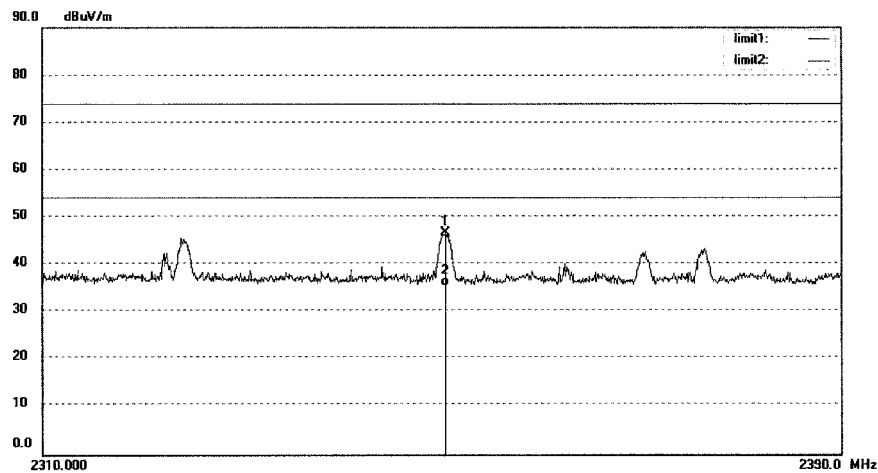
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1111
Standard: FCC (Band Edge)
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2402MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/10/16/
Time:
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2350.080	54.46	-7.79	46.67	74.00	-27.33	peak			
2	2350.080	43.28	-7.79	35.49	54.00	-18.51	AVG			

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Site: 2# Chamber

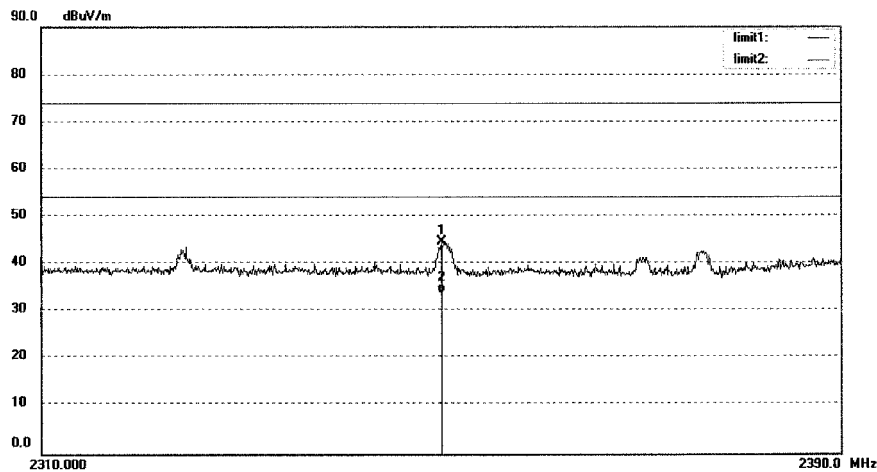
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1109
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2402MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/10/16/
Time:
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2349.680	52.51	-7.79	44.72	74.00	-29.28	peak			
2	2349.680	41.67	-7.79	33.88	54.00	-20.12	AVG			

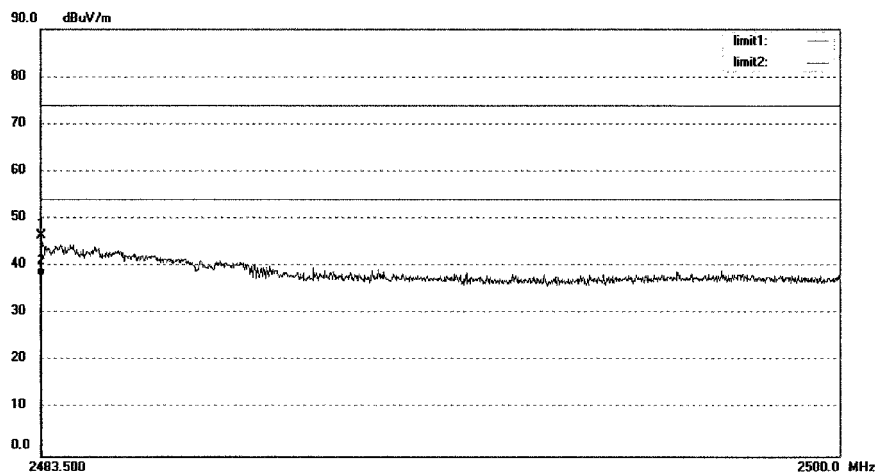
Prüfbericht - Nr.: 17044019 001
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 Site: 2# Chamber
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 Fax:+86-0755-26503396

Job No.: LAN2014 #1117	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/10/16/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Hipper-B	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MG-BTS01	
Manufacturer: Compupal (Group) Corporation	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	53.79	-7.37	46.42	74.00	-27.58	peak			
2	2483.500	45.34	-7.37	37.97	54.00	-16.03	AVG			

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Site: 2# Chamber

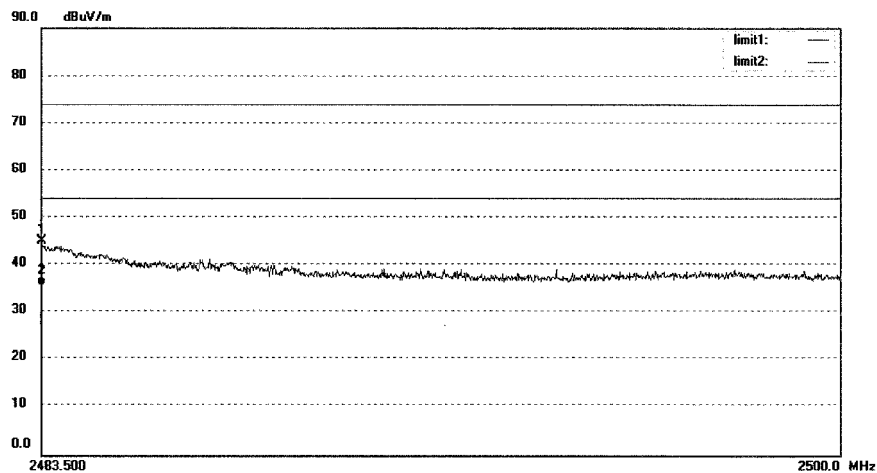
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1119
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2480MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/10/16/
Time:
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	52.51	-7.37	45.14	74.00	-28.86	peak			
2	2483.500	43.08	-7.37	35.71	54.00	-18.29	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

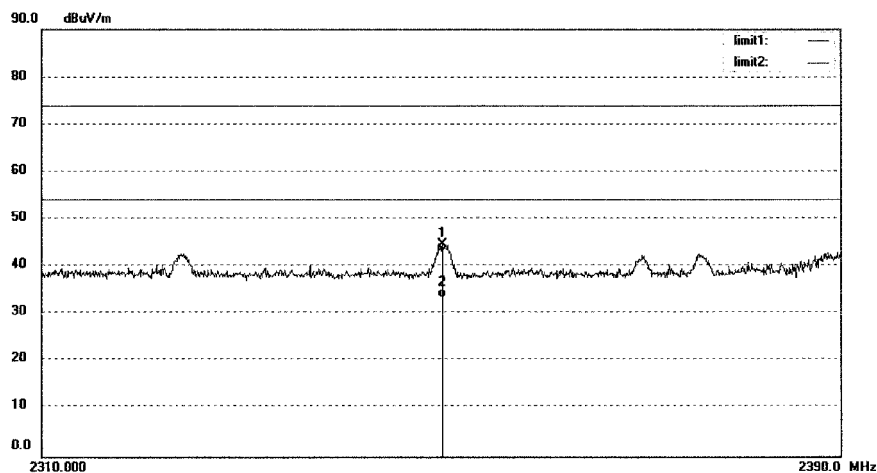
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1171
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Hipper-B
Mode: TX 2402MHz
Model: MG-BTS01
Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014-10-22
Time:
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2349.840	52.38	-7.79	44.59	74.00	-29.41	peak			
2	2349.840	41.23	-7.79	33.44	54.00	-20.56	AVG			

Prüfbericht - Nr.: 17044019 001
 Test Report No.

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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

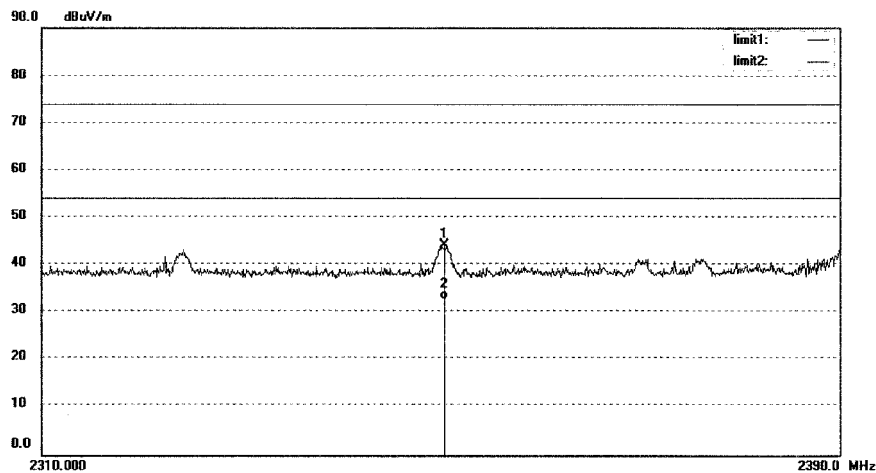
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1170
 Standard: FCC (Band Edge)
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2402MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Vertical
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2350.080	51.98	-7.79	44.19	74.00	-29.81	peak			
2	2350.080	40.57	-7.79	32.78	54.00	-21.22	AVG			

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 Test Report No.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

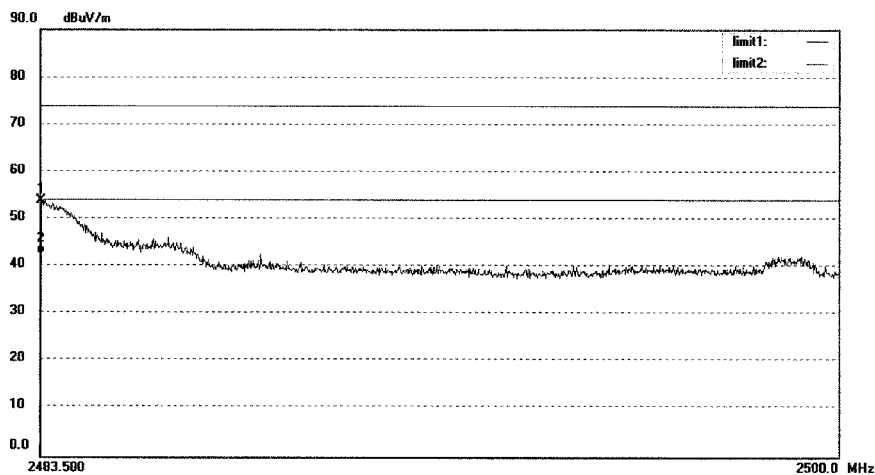
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: LAN2014 #1172
 Standard: FCC (Band Edge)
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Hipper-B
 Mode: TX 2480MHz
 Model: MG-BTS01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 2014-10-22
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	61.30	-7.37	53.93	74.00	-20.07	peak			
2	2483.500	49.95	-7.37	42.58	54.00	-11.42	AVG			

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1173

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Hipper-B

Mode: TX 2480MHz

Model: MG-BTS01

Manufacturer: Compupal (Group) Corporation

Polarization: Vertical

Power Source: DC 3.7V

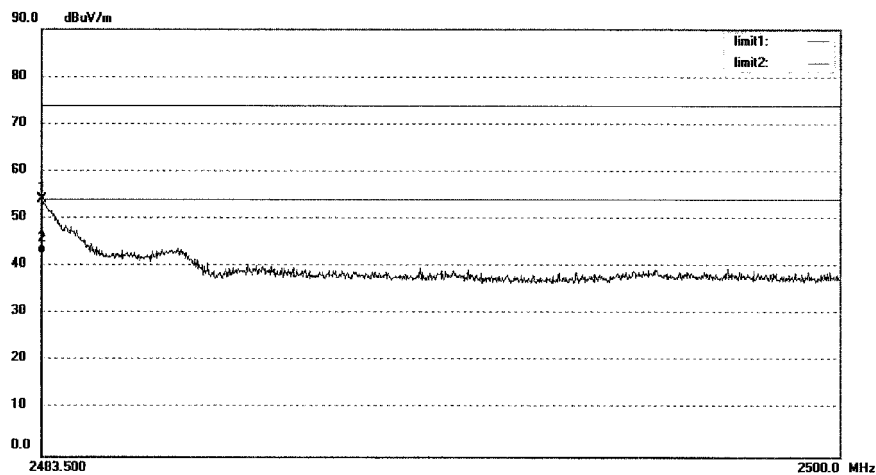
Date: 2014-10-22

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	61.40	-7.37	54.03	74.00	-19.97	peak			
2	2483.500	50.02	-7.37	42.65	54.00	-11.35	AVG			

5.1.8 Frequency Separation

RESULT:
Pass

Date of testing : 2014-10-16
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : $\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth,
 whichever is greater
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 14: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

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5.1.9 Number of hopping frequency**RESULT:****Pass**

Date of testing : 2014-10-16
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.4: 2003
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 15: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥ 15	Pass

5.1.10 Time of Occupancy

RESULT:
Pass

Date of testing : 2014-10-16
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.4: 2003
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

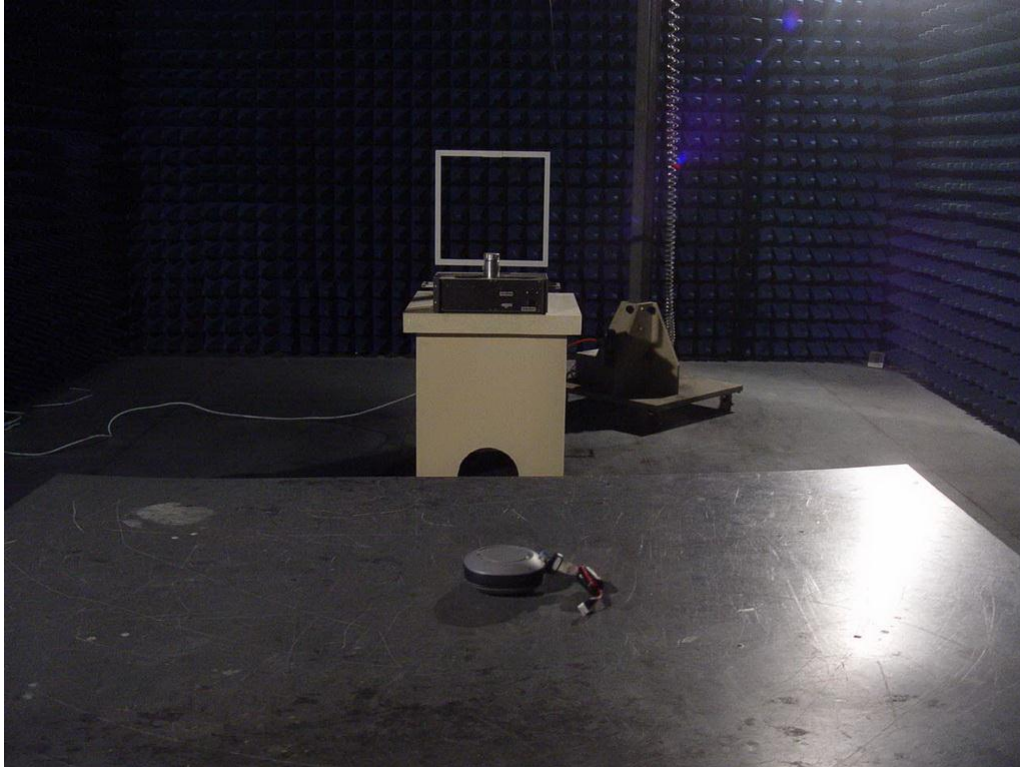
Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 16: Test result of Time of Occupancy

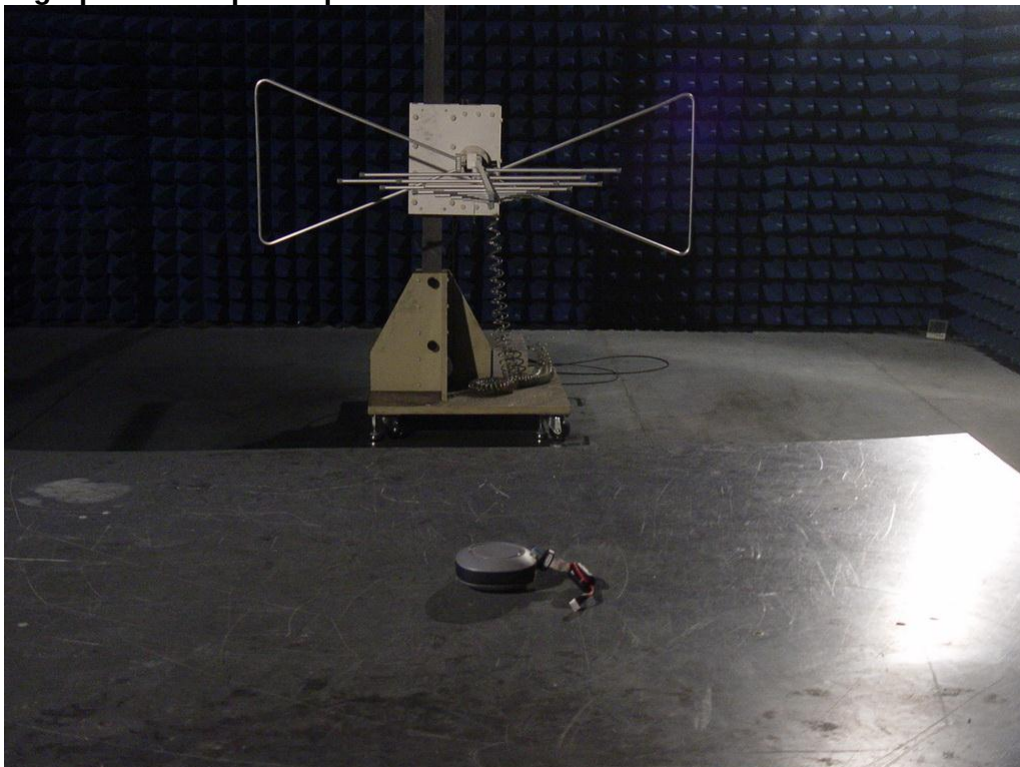
Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
BDR	DH1	2402	0.426	322	137.172	400
		2441	0.435	322	140.070	400
		2480	0.449	323	145.027	400
	DH3	2402	1.710	166	283.860	400
		2441	1.710	165	282.160	400
		2480	1.710	165	282.160	400
	DH5	2402	2.978	113	336.514	400
		2441	2.957	112	331.184	400
		2480	2.978	113	336.514	400
EDR	DH1	2402	0.449	322	144.578	400
		2441	0.449	323	145.027	400
		2480	0.449	322	144.578	400
	DH3	2402	1.725	165	284.625	400
		2441	1.725	165	284.625	400
		2480	1.725	166	286.350	400
	DH5	2402	2.978	112	333.536	400
		2441	3.000	112	336.000	400
		2480	2.978	111	330.558	400

6. Photographs of the Test Set-Up

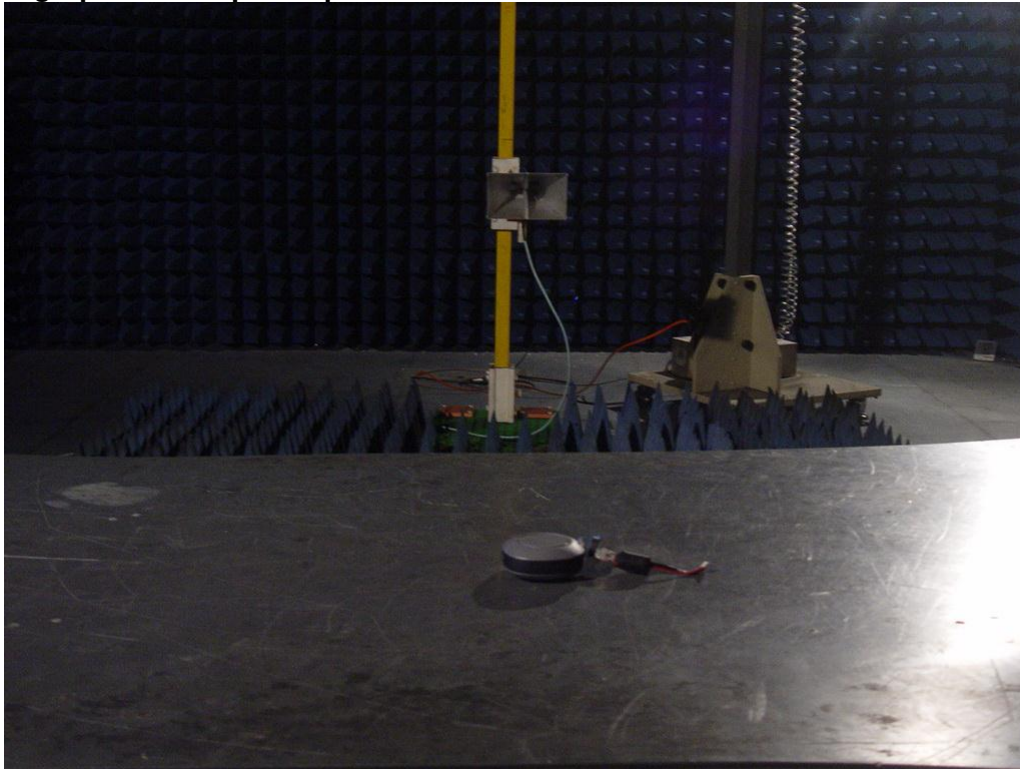
Photograph 1: Set-up for Spurious Emissions for below 30MHz



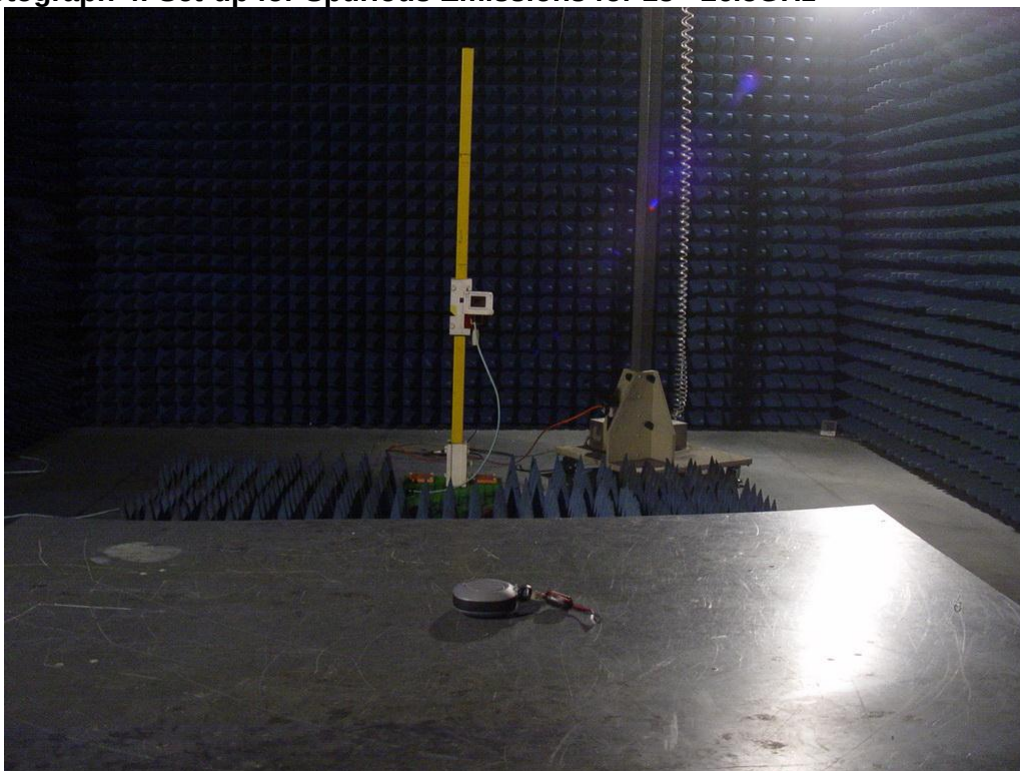
Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 3: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 4: Set-up for Spurious Emissions for 18 - 26.5GHz



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