

Prüfbericht-Nr.: <i>Test Report No.:</i>	17035527 001	Auftrags-Nr.: <i>Order No.:</i>	164007373	Seite 1 von 96 <i>Page 1 of 96</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	16.08.2013		
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>	MD-SPBT01				
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-Gen Issue 3 December 2010 FCC KDB Publication 447498 v05r01	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart B Section 15.107 RSS-210 Issue 8 December 2010 ICES-003 Issue 5 August 2012 RSS-102 Issue 4 March 2010			
Wareneingangsdatum: <i>Date of receipt:</i>	07.09.2013				
Prüfmuster-Nr.: <i>Test sample No.:</i>	N/A				
Prüfzeitraum: <i>Testing period:</i>	09.09.2013 - 11.09.2013				
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: 30.09.2013 Owen Tian/Project Engineer	kontrolliert von / reviewed by: 30.09.2013 Shawn Peng/Technical Certicier				
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					

Prüfbericht - Nr.: 17035527 001
Test Report No.

Seite 2 von 96
Page 2 of 96

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 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100kHz BANDWIDTH

RESULT: Pass

5.1.5 SPURIOUS EMISSION

RESULT: Pass

5.1.6 FREQUENCY SEPARATION

RESULT: Pass

5.1.7 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.8 TIME OF OCCUPANCY

RESULT: Pass

5.1.9 CONDUCTED EMISSIONS

RESULT: Pass

5.1.10 RADIATED EMISSIONS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

Contents

1. GENERAL REMARKS	5
1.1 COMPLEMENTARY MATERIALS	5
2. TEST SITES	5
2.1 TEST FACILITIES.....	5
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3 TRACEABILITY	7
2.4 CALIBRATION	7
2.5 MEASUREMENT UNCERTAINTY.....	7
2.6 LOCATION OF ORIGINAL DATA.....	7
2.7 STATUS OF FACILITY USED FOR TESTING.....	7
3. GENERAL PRODUCT INFORMATION	8
3.1 PRODUCT FUNCTION AND INTENDED USE.....	8
3.2 RATINGS AND SYSTEM DETAILS	8
3.3 INDEPENDENT OPERATION MODES	8
3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS	8
3.5 SUBMITTED DOCUMENTS.....	9
4. TEST SET-UP AND OPERATION MODES	10
4.1 PRINCIPLE OF CONFIGURATION SELECTION.....	10
4.2 TEST OPERATION AND TEST SOFTWARE	10
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	10
4.5 TEST SETUP DIAGRAM	11
5. TEST RESULTS	13
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	13
5.1.1 Antenna Requirement.....	13
5.1.2 Peak Output Power	14
5.1.3 20dB Bandwidth and 99% Bandwidth	15
5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth	16
5.1.5 Spurious Emission.....	25
5.1.6 Frequency Separation	76
5.1.7 Number of hopping frequency.....	77
5.1.8 Time of Occupancy	79
5.1.9 Conducted emissions	80
5.1.10 Radiated emissions	83
6. SAFETY HUMAN EXPOSURE	92
6.1 RADIO FREQUENCY EXPOSURE COMPLIANCE.....	92
6.1.1 Electromagnetic Fields	92
7. PHOTOGRAPHS OF THE TEST SET-UP	93
8. LIST OF TABLES	96

Prüfbericht - Nr.: 17035527 001
Test Report No.

Seite 4 von 96
Page 4 of 96

9. LIST OF PHOTOGRAPHS 96

Prüfbericht - Nr.: 17035527 001
Test Report No.

Seite 5 von 96
Page 5 of 96

1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)
(Test site Industry Canada No.: 5077A-2)

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	2014-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2014-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-07
RF Coaxial Cable	SUHNER	N-3m	No.8	2014-01-07
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2014-01-07
RF Coaxial Cable	SUHNER	N-6m	No.10	2014-01-07
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2014-01-07
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2014-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2014-01-07
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2014-01-07
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-07
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2014-01-07
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2014-01-07
L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	2014-01-07
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2014-01-07
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014-01-07
RF Coaxial Cable	SUHNER	N-2m	No.3	2014-01-07
Radiated Emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2014-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-07
RF Coaxial Cable	SUHNER	N-3m	No.8	2014-01-07
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2014-01-07
RF Coaxial Cable	SUHNER	N-6m	No.10	2014-01-07
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2014-01-07
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2014-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2014-01-07

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	< ± 0.60 dB
Radiated emission of transmitter, valid up to 12.75 GHz	< ± 4.42 dB
Radiated emission of receiver, valid up to 12.75 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 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 and 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 EUT is a Bluetooth speaker used for audio entertainment in house or similar environment. It operates at 2.4GHz ISM frequency band.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth Speaker
Type Designation	MD-SPBT01
Bluetooth version	3.0
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-20~+45°C
Operation Voltage	DC 5V
Modulation	FHSS, GFSK, 8DPSK, $\pi/4$ DQPSK
Antenna Gain	-2dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth mode
 - a. Transmitting
 - b. Receiving
 - 2. AUX input
- B. Charging via USB port
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- 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: 2009.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
iPod	Apple	A1238	8K039T1Y9ZU

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
Line input	2 cores, non-shielded port, 3m	Audio Input
USB port	4 cores, non-shielded port, 3m	Signal 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

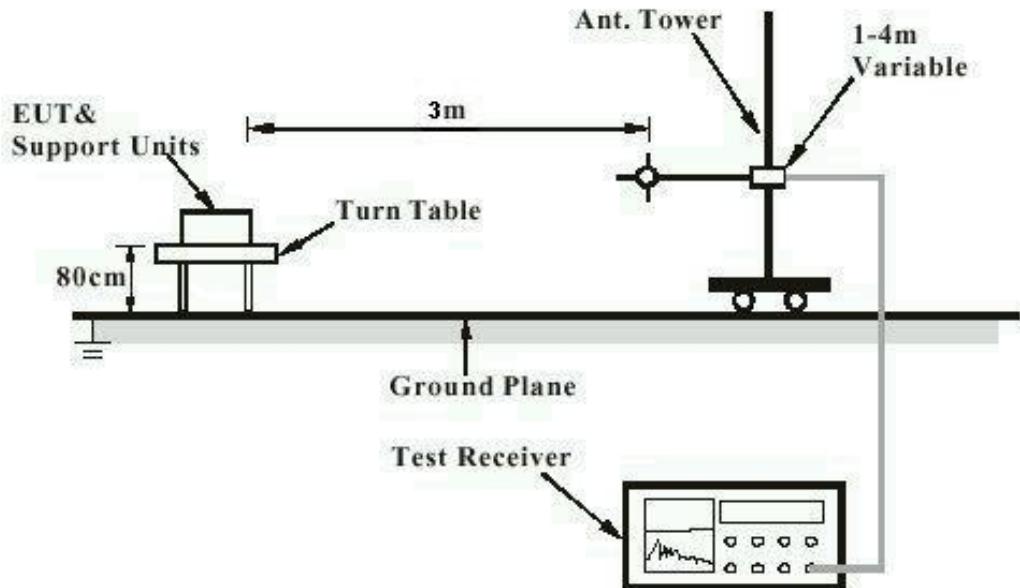
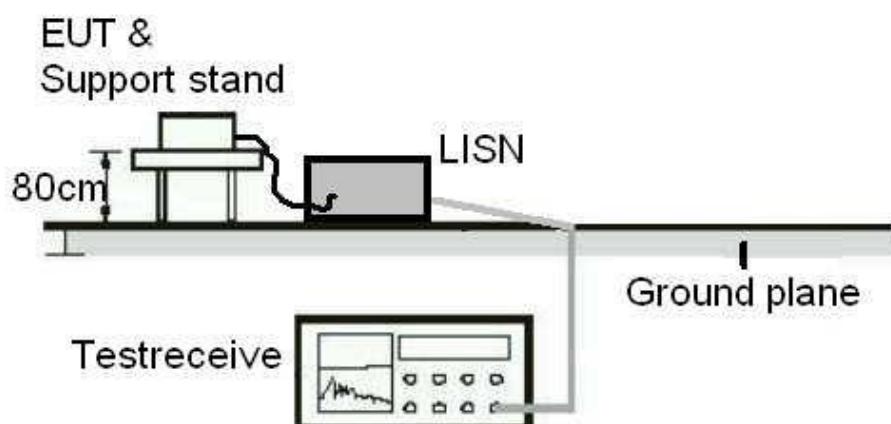


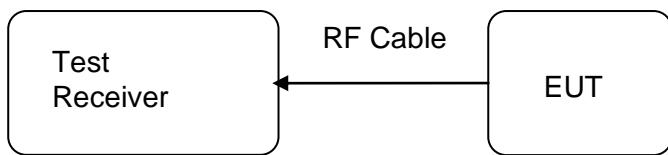
Diagram of Measurement Equipment Configuration for Conduction Measurement



Prüfbericht - Nr.: 17035527 001
Test Report No.

Seite 12 von 96
Page 12 of 96

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 RSS-Gen 7.1.4
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 2dBi, Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Output Power

RESULT:
Pass

Test date	:	2013-09-09
Test standard	:	FCC Part 15.247(b)(1) RSS-210 A8.4(2)
Basic standard	:	ANSI C63.4: 2009
Limit	:	21dBm/125mW
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 4: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power (dBm)		Limit (dBm)
		BDR	EDR	
Low Channel	2402	4.14	3.93	21
Middle Channel	2441	4.11	3.68	21
High Channel	2480	3.60	3.01	21

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 15 von 96
Page 15 of 96

5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing : 2013-09-09
 Test standard : FCC Part 15.247(a)(1)
 RSS-210 A8.1(a)
 Basic standard : ANSI C63.4: 2009
 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 5: Test result of 20dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)		99% Bandwidth (MHz)	
		BDR	EDR	BDR	EDR
Low Channel	2402	0.918	1.206	0.936	1.206
Mid Channel	2441	0.918	1.194	0.936	1.206
High Channel	2480	0.918	1.148	0.936	1.200

Prüfbericht - Nr.: 17035527 001
Test Report No.

Seite 16 von 96
Page 16 of 96

5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth

RESULT:

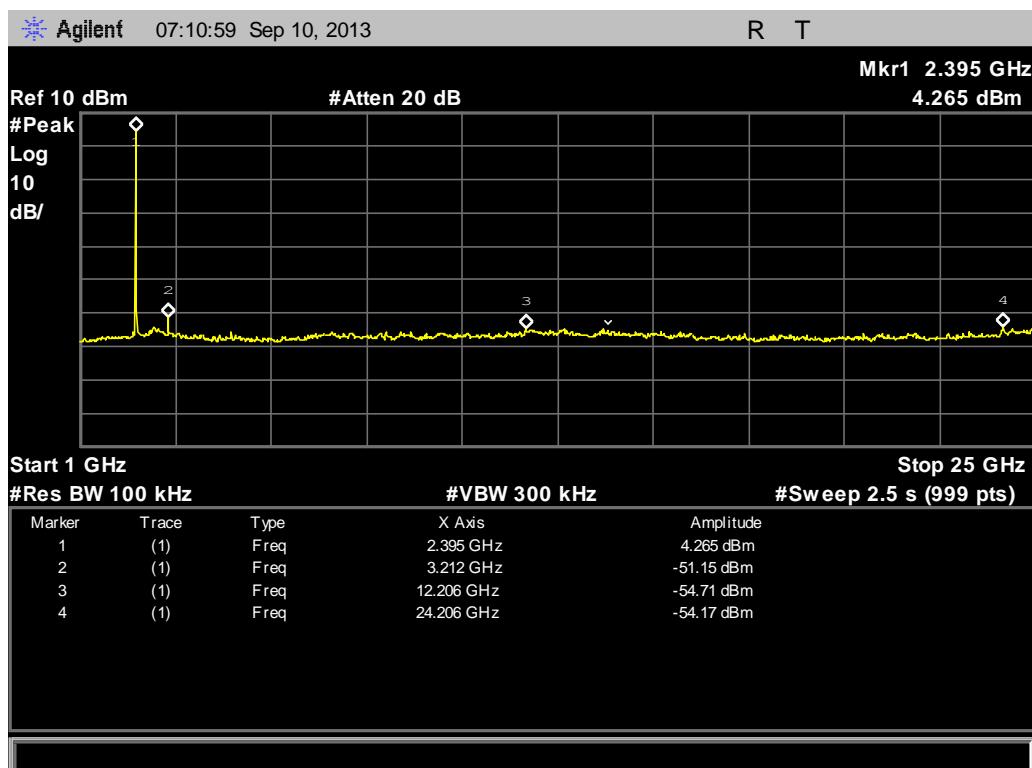
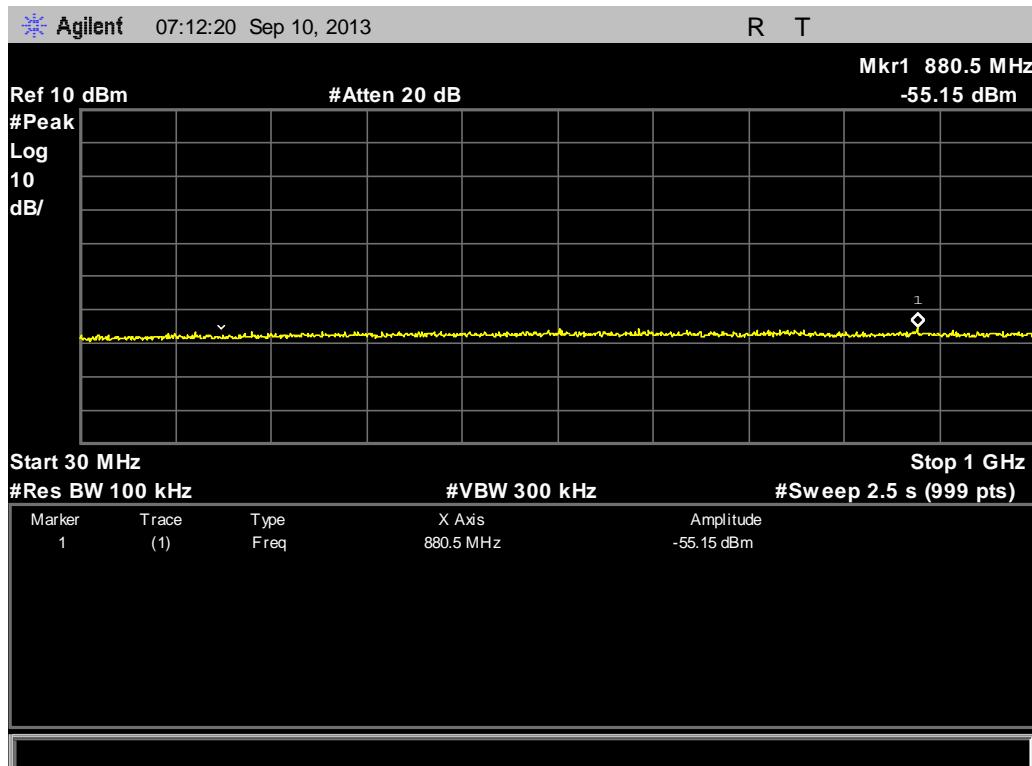
Pass

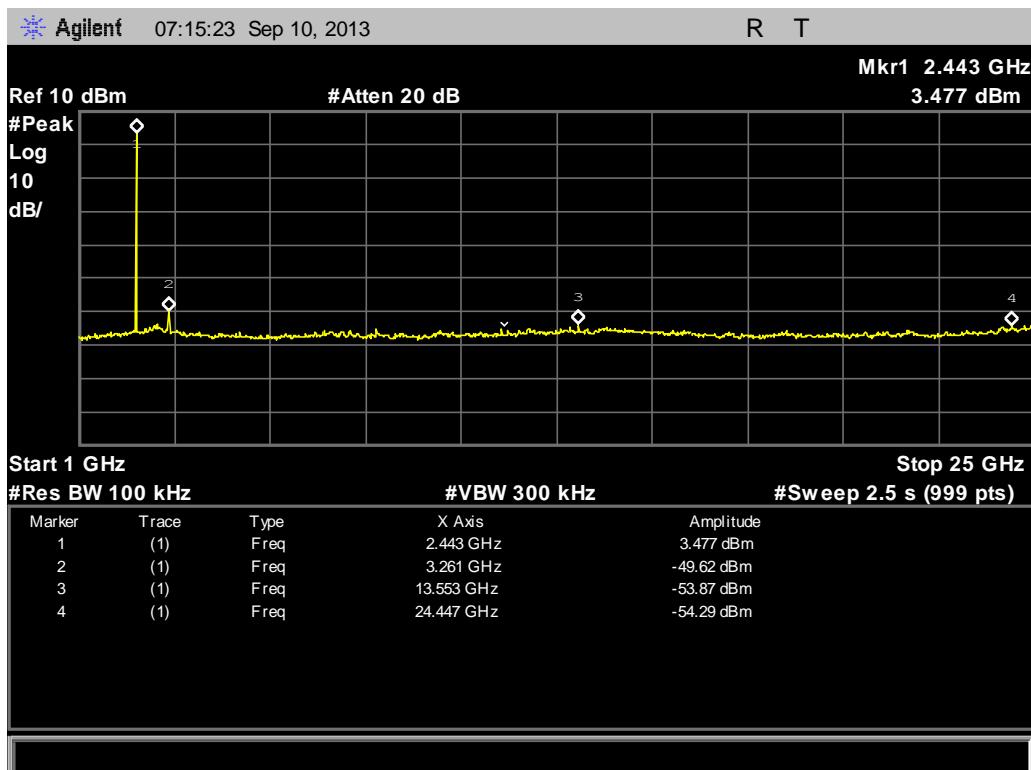
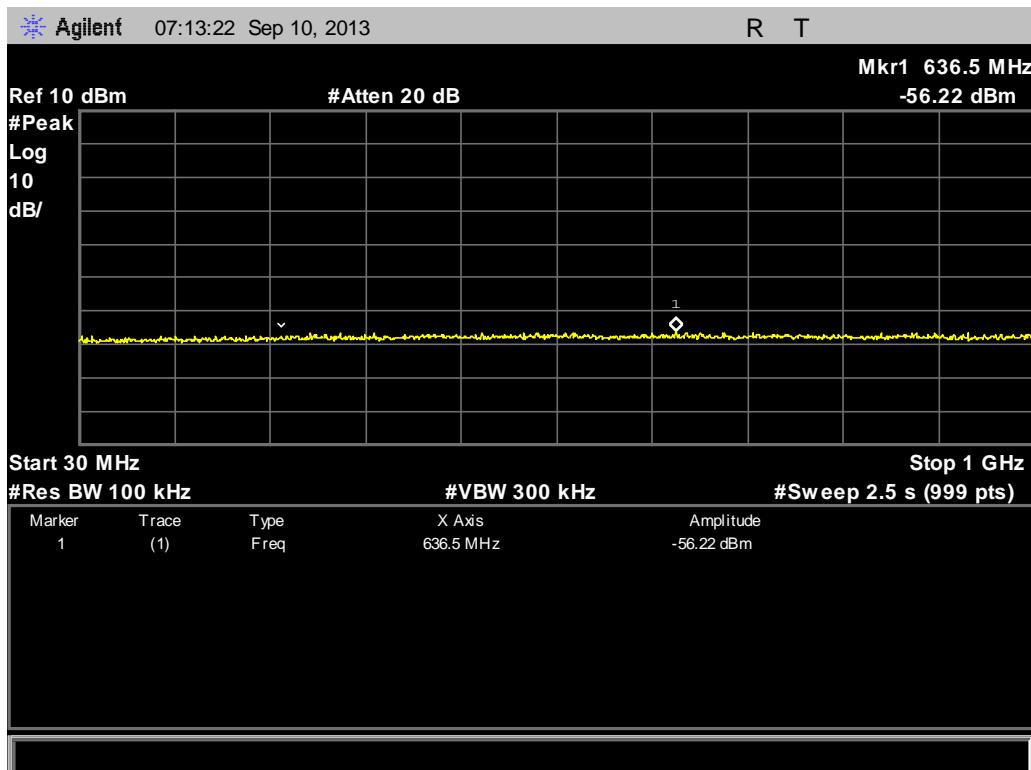
Date of testing : 2013-09-09
Test standard : FCC part 15.247(d)
Basic standard : RSS-210 A8.5
Limit : ANSI C63.4: 2009
Kind of test site : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Shield room

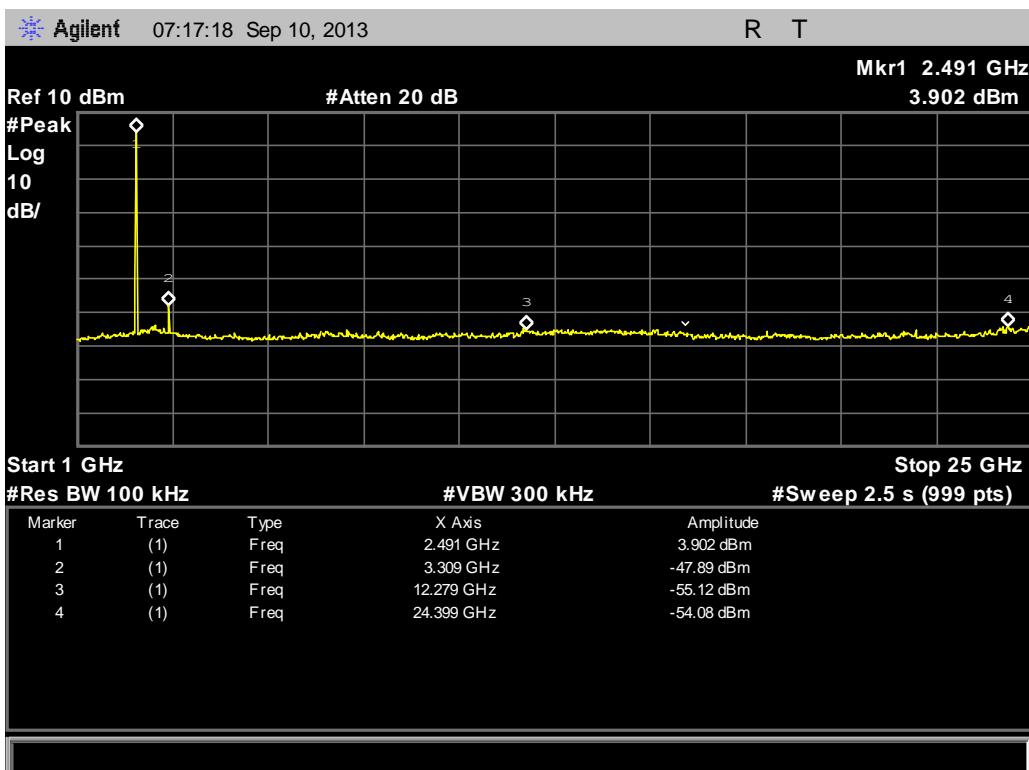
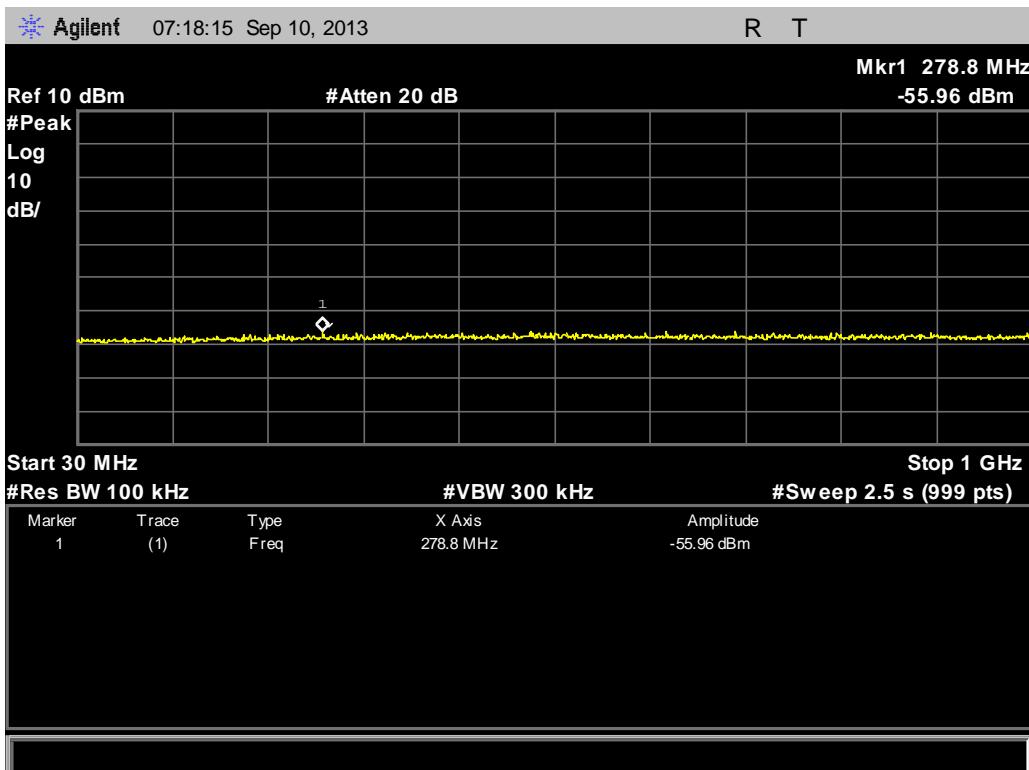
Test setup

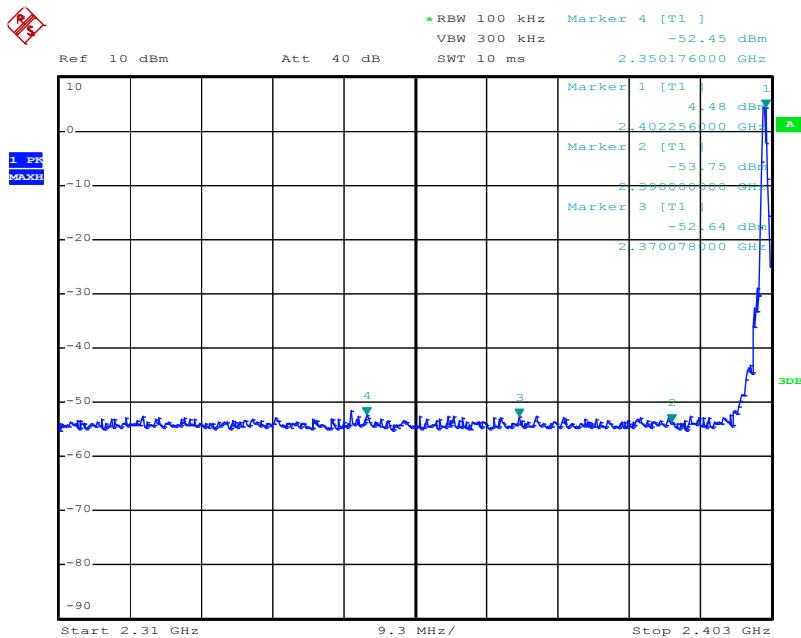
Test Channel : Low/ Middle/ High
Operation mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

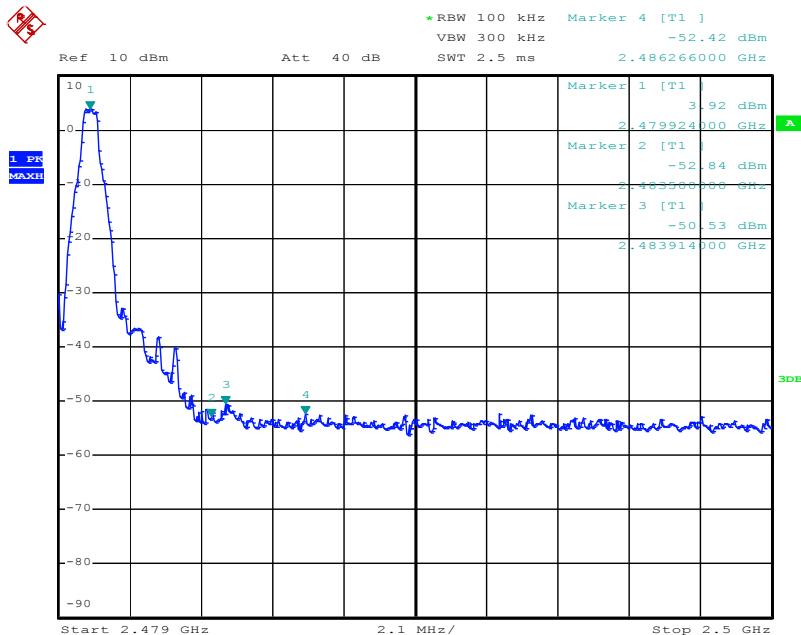
Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 17 von 96
Page 17 of 96
**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of BDR mode**
Low Channel


Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 18 von 96
Page 18 of 96
Middle Channel


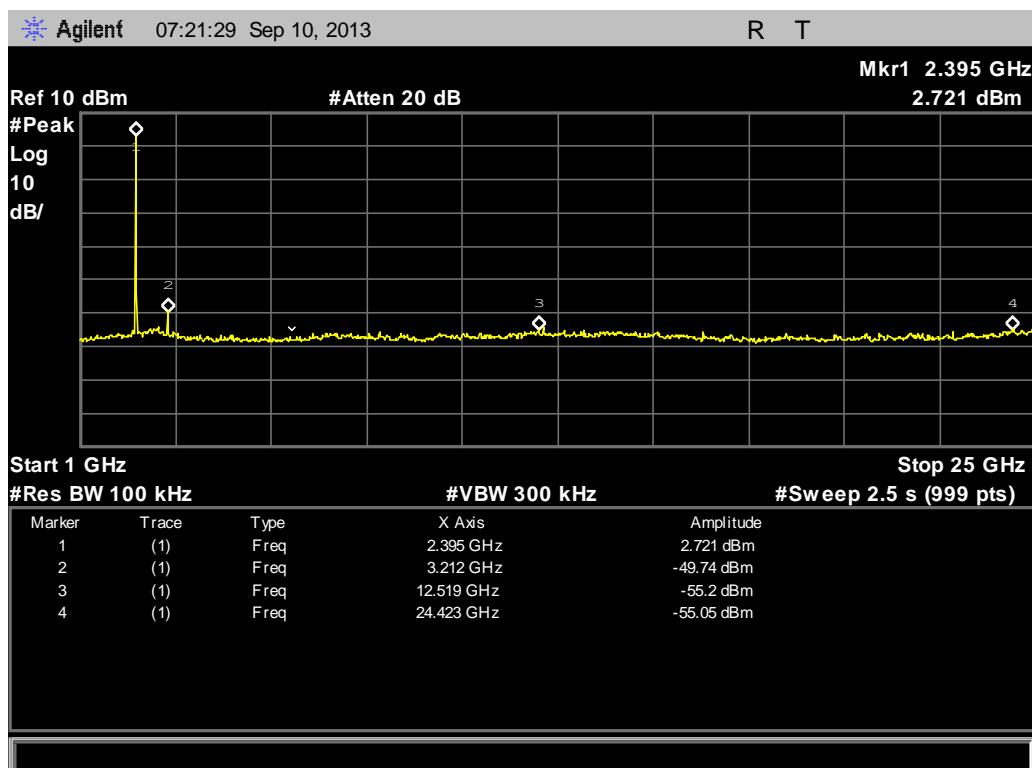
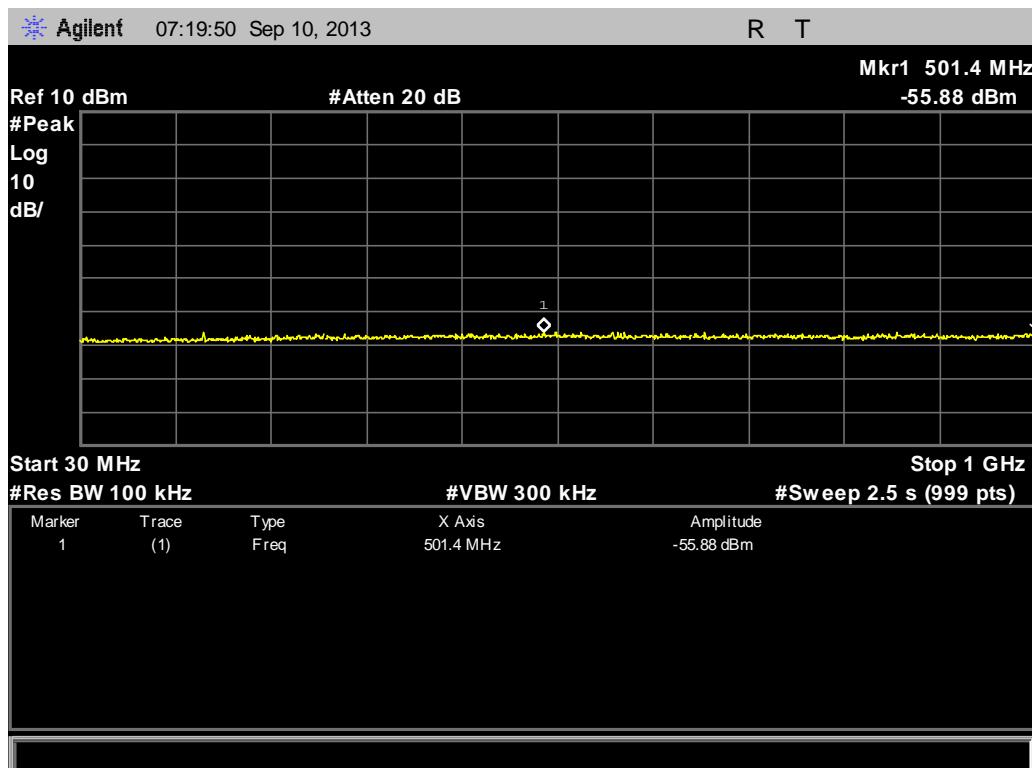
Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 19 von 96
Page 19 of 96
High Channel


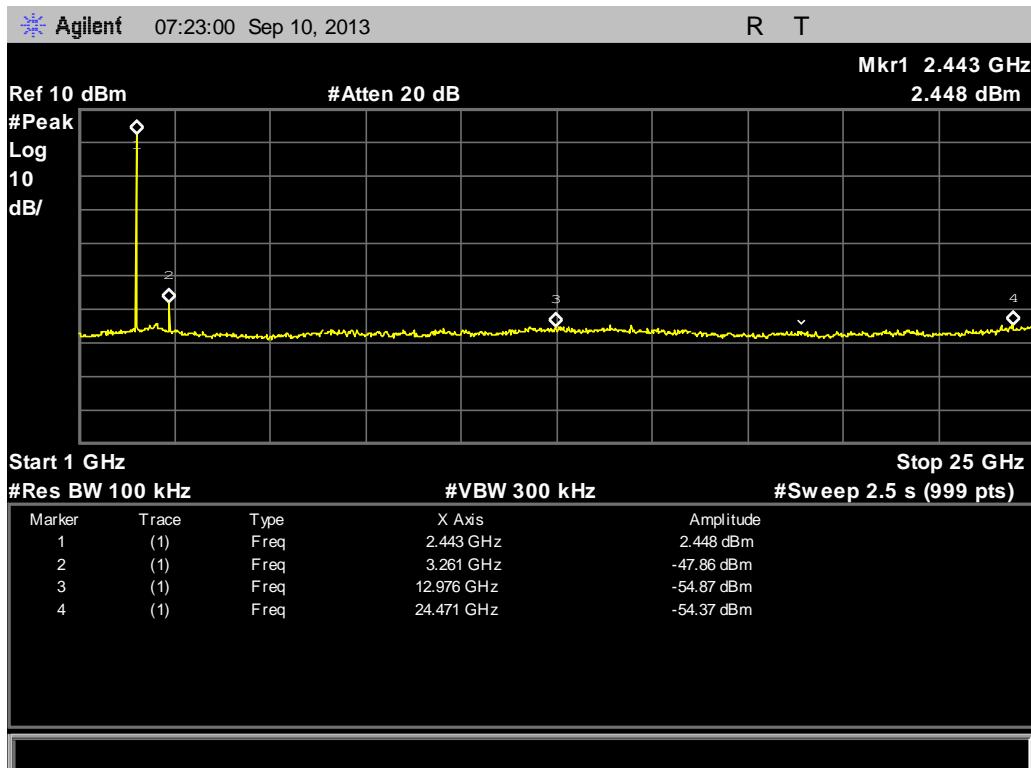
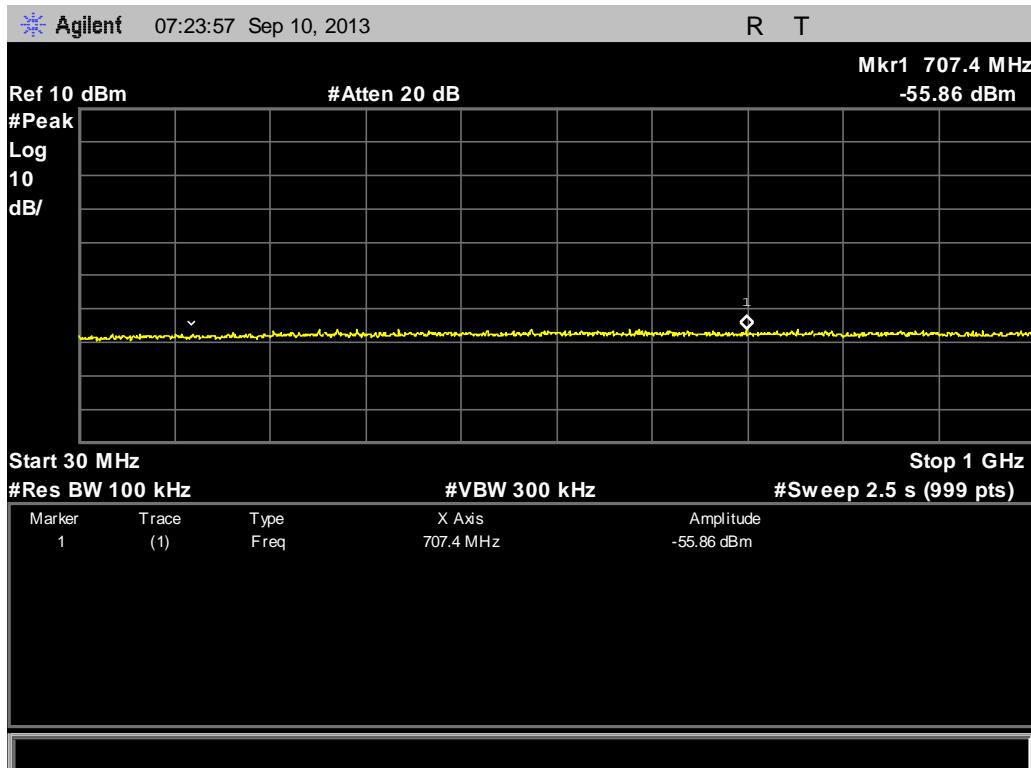
Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 20 von 96
Page 20 of 96
Test Plot of 100 kHz Bandwidth of Frequency Band Edge
Low Channel


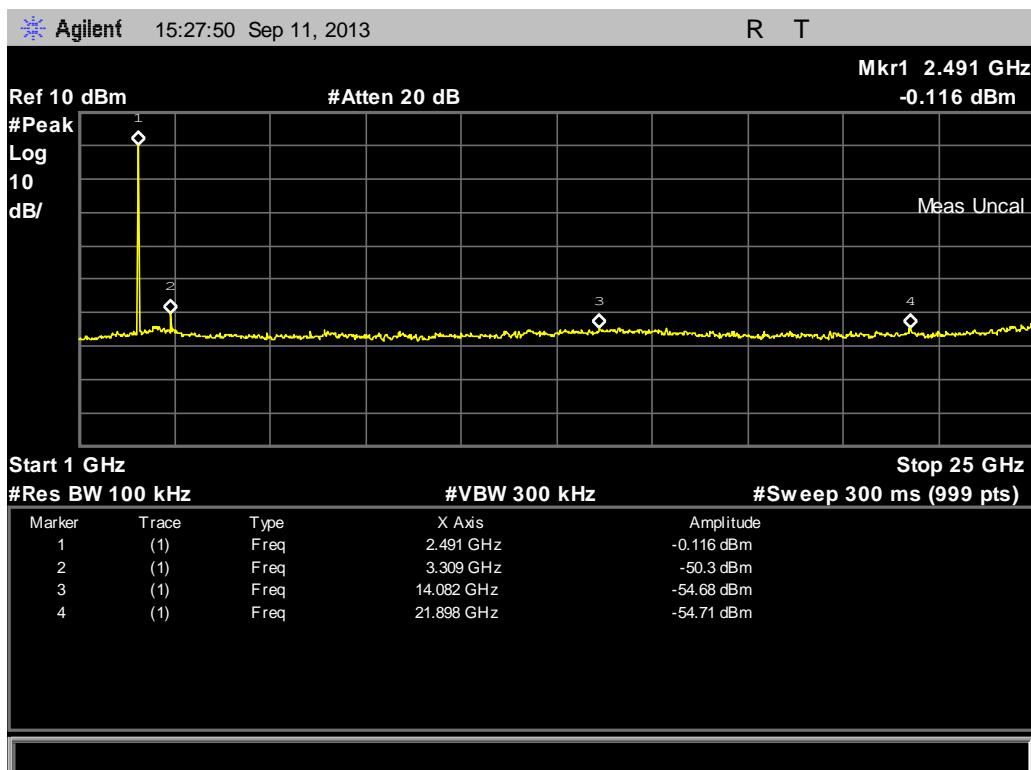
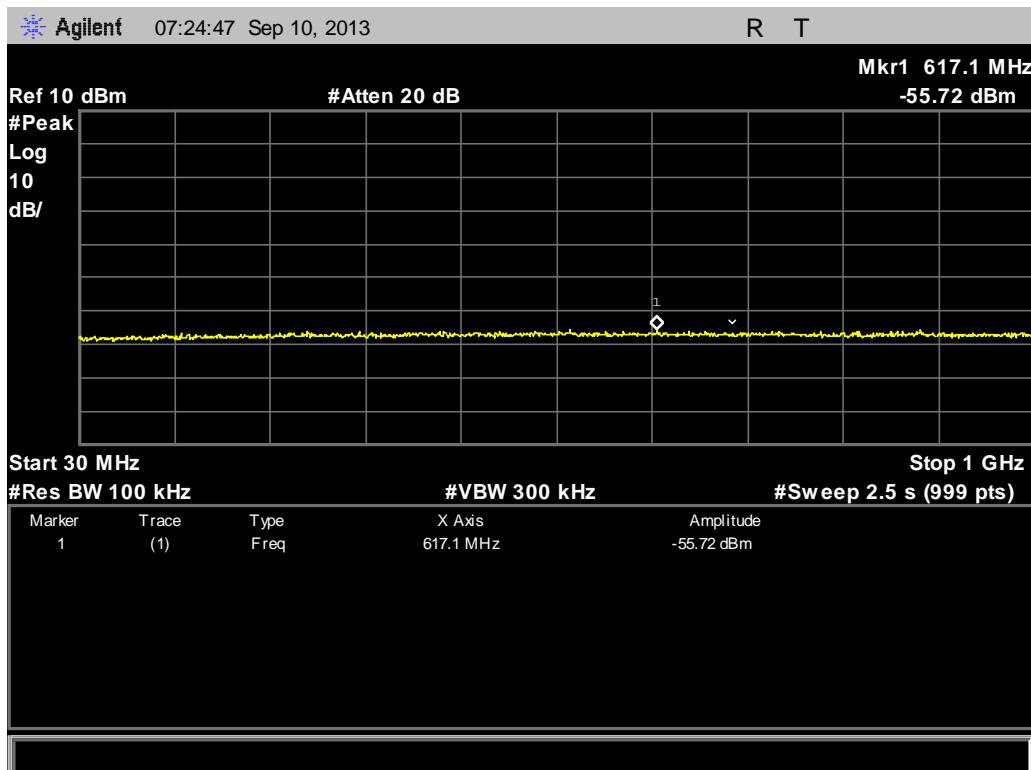
Date: 9.SEP.2013 13:47:48

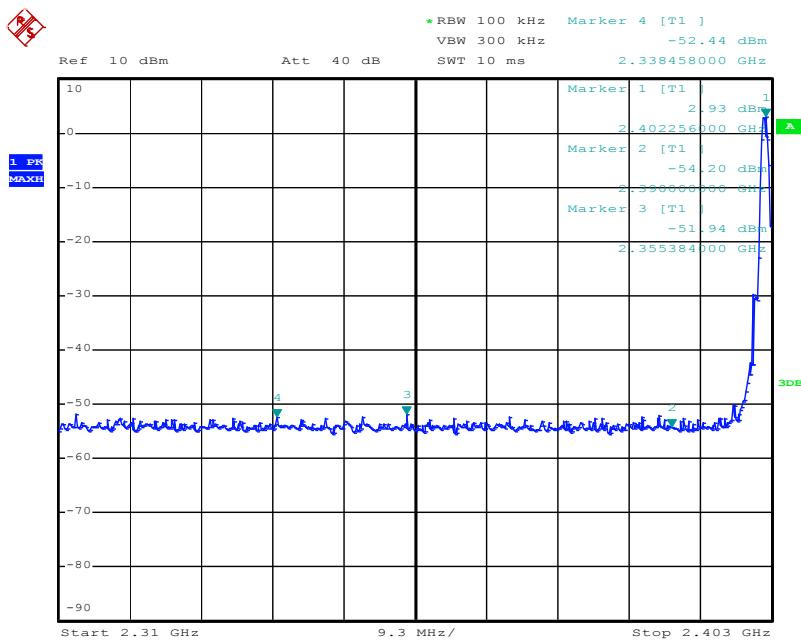
High Channel


Date: 9.SEP.2013 13:44:40

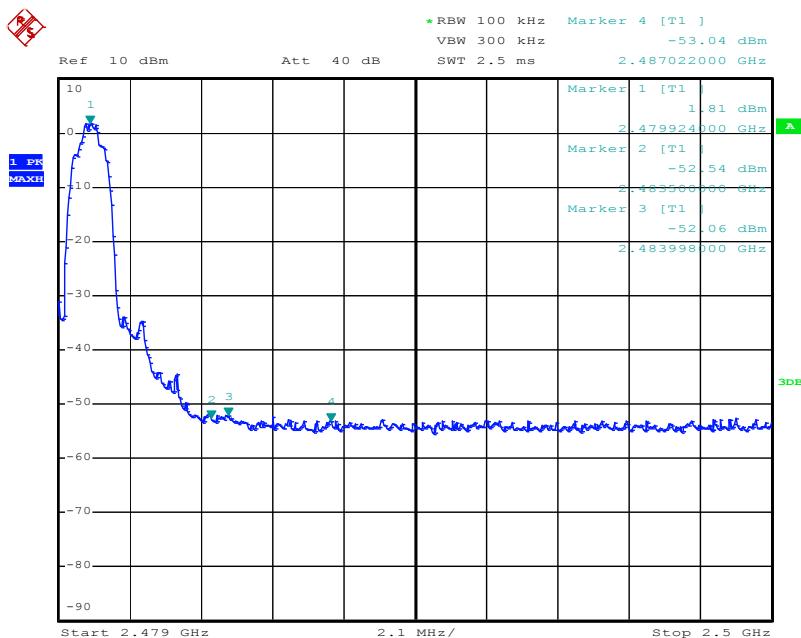
Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 21 von 96
Page 21 of 96
**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of EDR mode**
Low Channel


Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 22 von 96
Page 22 of 96
Middle Channel


Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 23 von 96
Page 23 of 96
High Channel


Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 24 von 96
Page 24 of 96
Test Plot of 100 kHz Bandwidth of Frequency Band Edge
Low Channel


Date: 9.SEP.2013 13:48:48

High Channel


Date: 9.SEP.2013 13:43:36

Prüfbericht - Nr.: 17035527 001
Test Report No.

Seite 25 von 96
Page 25 of 96

5.1.5 Spurious Emission

RESULT:

Pass

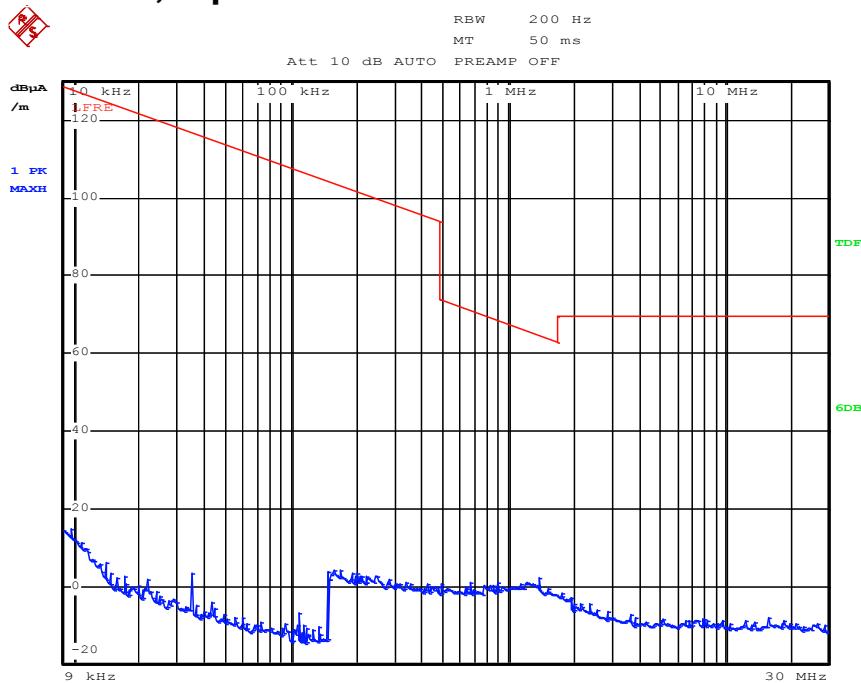
Date of testing : 2013-09-10
Test standard : FCC part 15.247(d)
Basic standard : RSS-210 Clause 2.2
Limits : ANSI C63.4: 2009
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

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

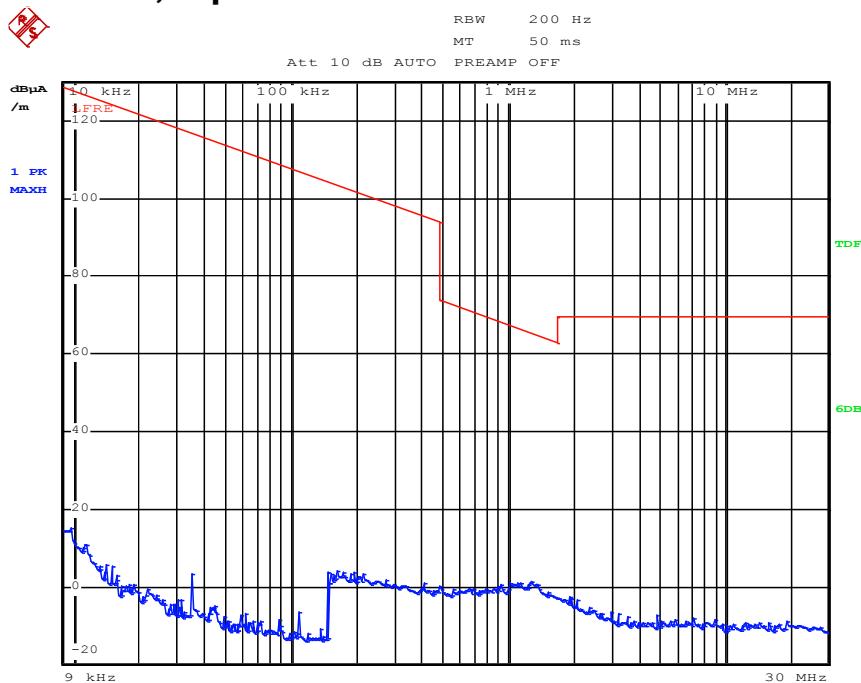
For details refer to following test plot.

Test Plot of Spurious Emission of transmitting Low channel, X polarization:

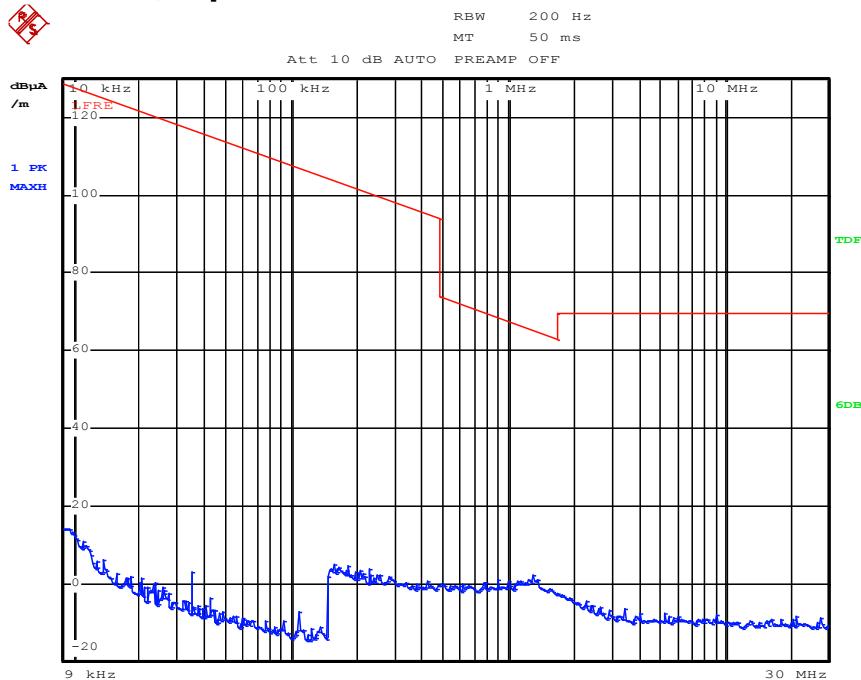


Date: 11.SEP.2013 09:44:39

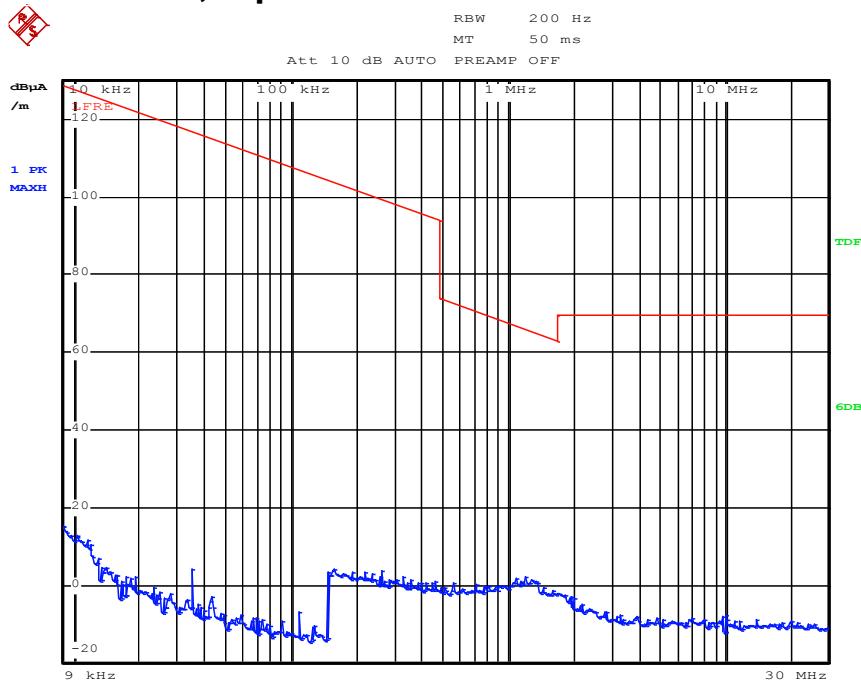
Low channel, Y polarization:



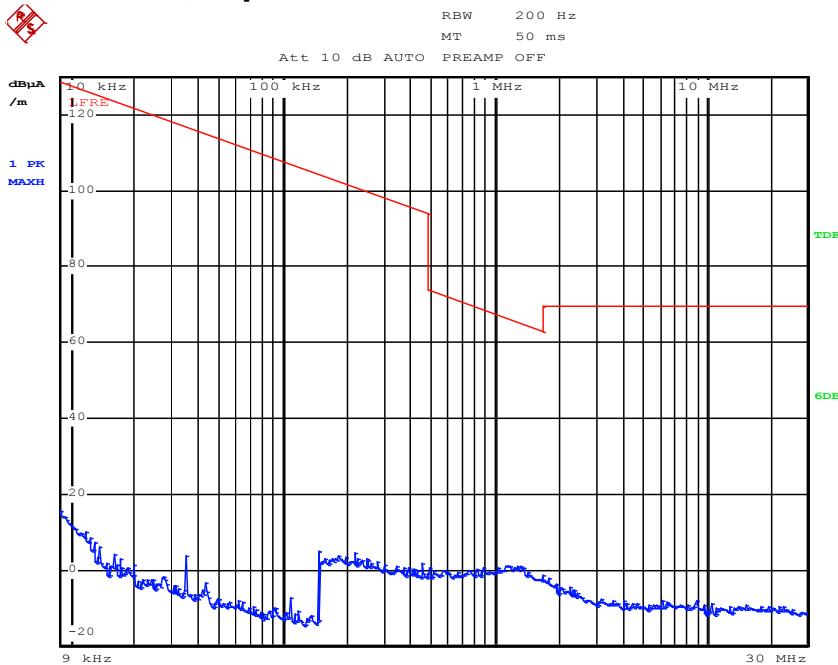
Date: 11.SEP.2013 09:46:41

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 27 von 96
Page 27 of 96
Low channel, Z polarization:


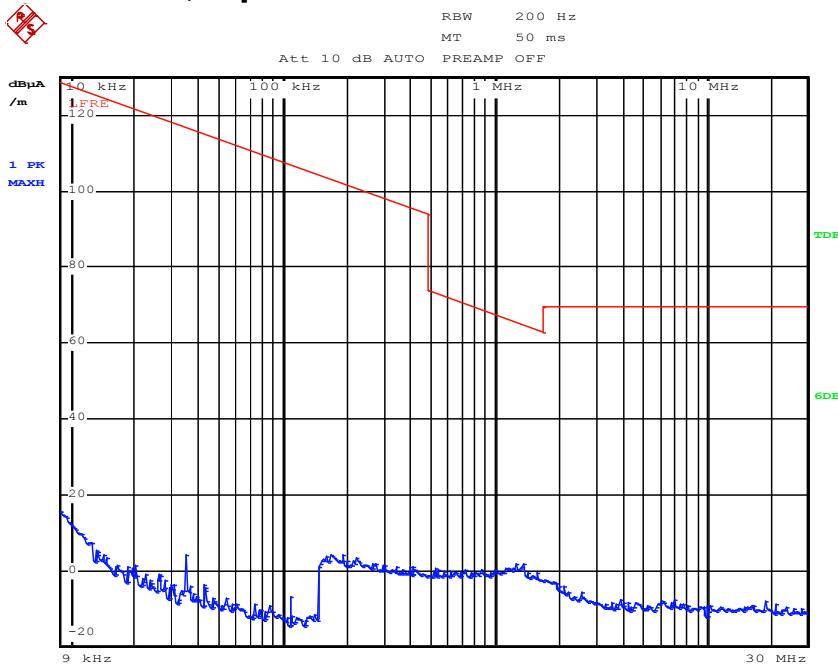
Date: 11.SEP.2013 09:48:43

Middle channel, X polarization:


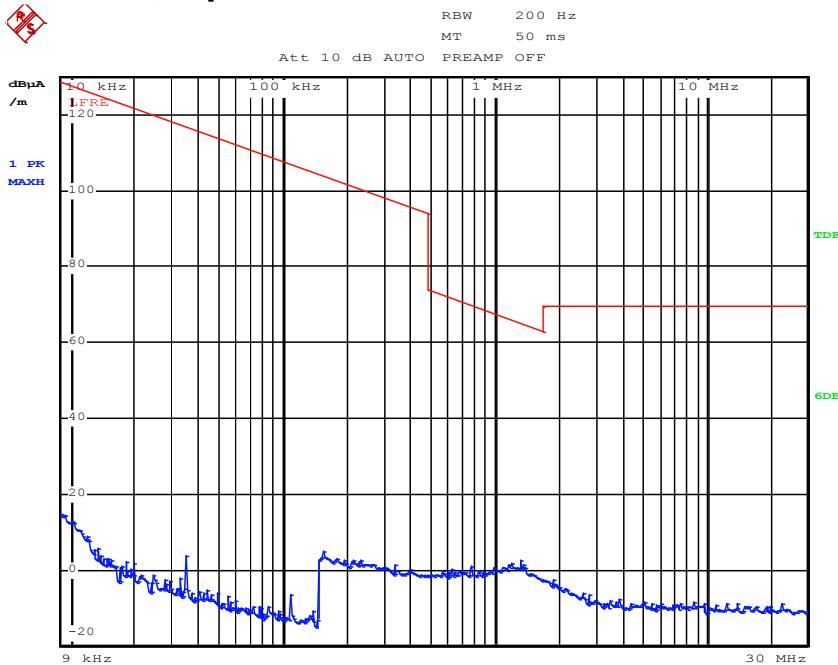
Date: 11.SEP.2013 09:51:29

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 28 von 96
Page 28 of 96
Middle channel, Y polarization:


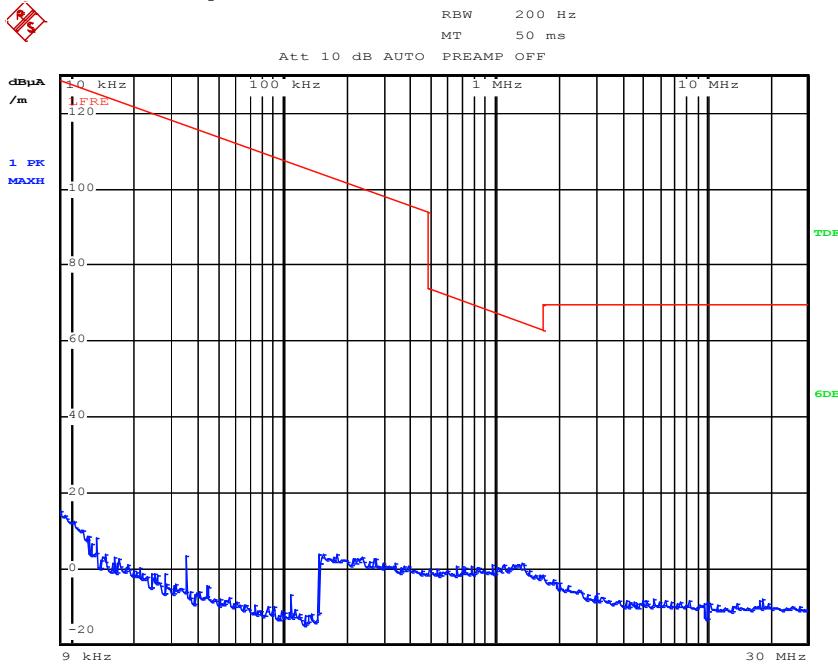
Date: 11.SEP.2013 09:53:28

Middle channel, Z polarization:


Date: 11.SEP.2013 09:55:26

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 29 von 96
Page 29 of 96
High channel, X polarization:


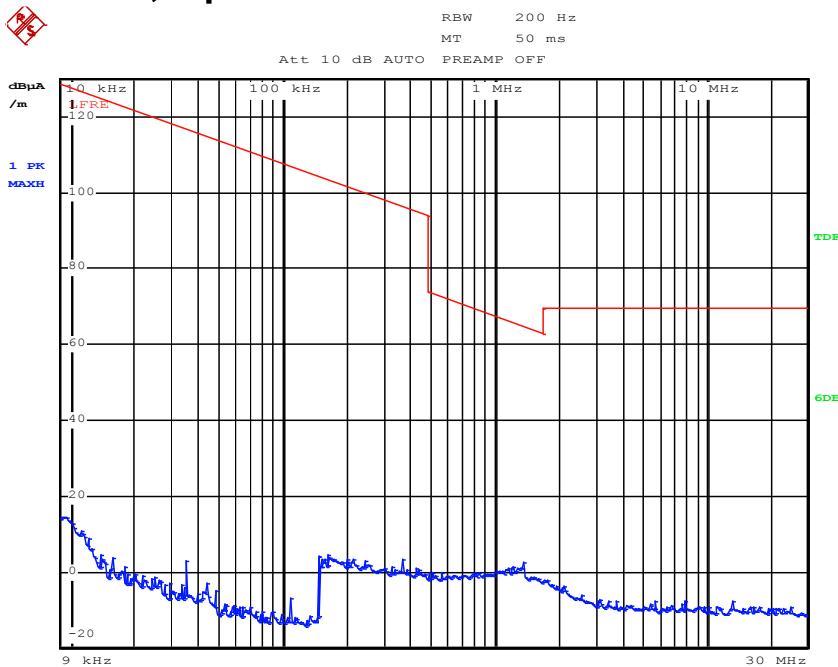
Date: 11.SEP.2013 09:57:21

High channel, Y polarization:


Date: 11.SEP.2013 09:59:15

Prüfbericht - Nr.: 17035527 001
Test Report No.Seite 30 von 96
Page 30 of 96

High channel, Z polarization:



Date: 11.SEP.2013 10:01:12

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 31 von 96
Page 31 of 96

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.: PHY #19

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 2013-9-10

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

Time: 11:26:37

EUT: Bluetooth Speaker

Engineer Signature: PEI

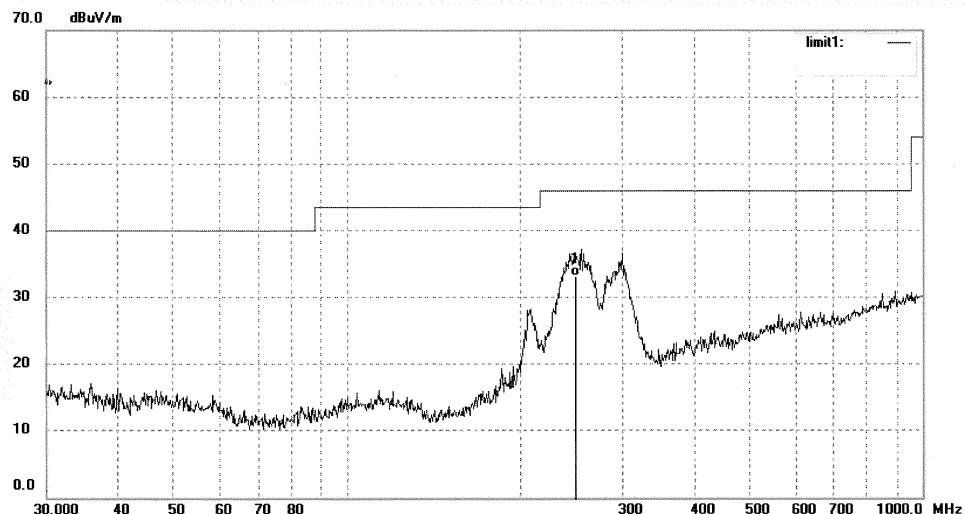
Mode: TX 2402MHz

Distance: 3m

Model: MD-SPBT01

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	249.8025	43.89	-10.77	33.12	46.00	-12.88	QP			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 32 von 96
Page 32 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

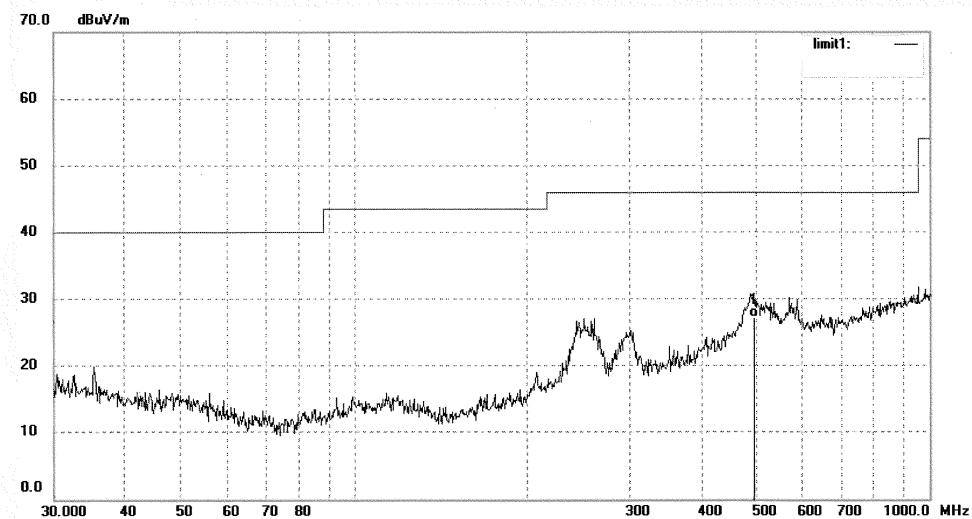
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #20	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp. (C)/Hum.(%) 23 C / 48 %	Time: 11:35:24
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
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	495.2379	32.23	-5.03	27.20	46.00	-18.80	QP			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 33 von 96
Page 33 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

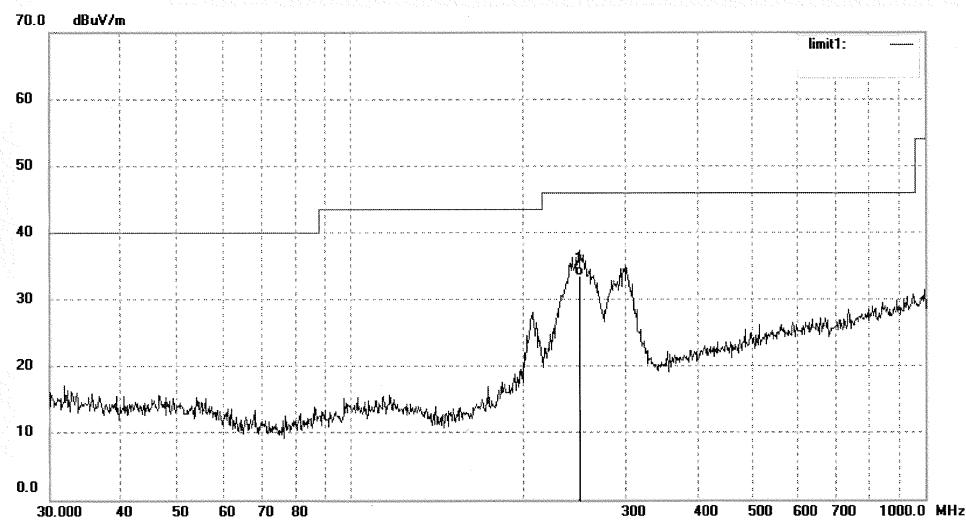
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #22	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 11:52:04
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
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	249.6074	44.20	-10.77	33.43	46.00	-12.57	QP			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 34 von 96
Page 34 of 96

ACCURATE TECHNOLOGY CO., LTD.

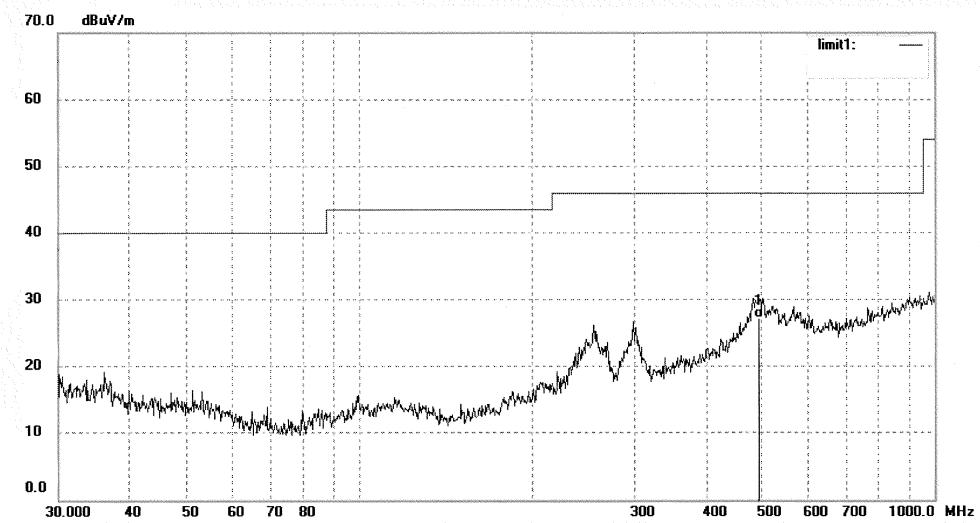
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #21	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp. (C)/Hum.(%) 23 C / 48 %	Time: 11:44:50
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
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	495.2379	32.33	-5.03	27.30	46.00	-18.70	QP			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 35 von 96
Page 35 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

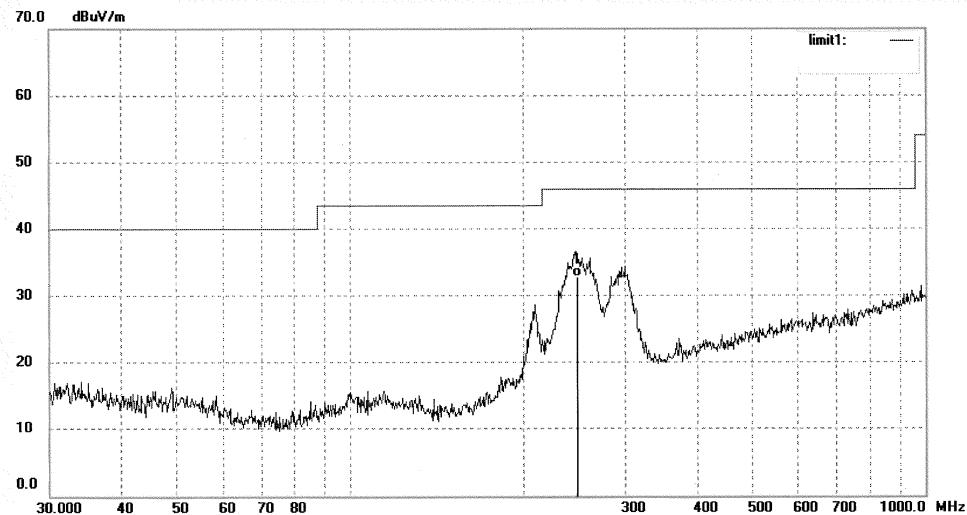
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #23
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp. (C)/Hum.(%) 23 C / 48 %
 EUT: Bluetooth Speaker
 Mode: TX 2480MHz
 Model: MD-SPBT01
 Manufacturer: Compupal (Group) Corporation

Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 2013-9-10
 Time: 12:01:25
 Engineer Signature: PEI
 Distance: 3m

Note:



Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 36 von 96
Page 36 of 96

ACCURATE TECHNOLOGY CO., LTD.

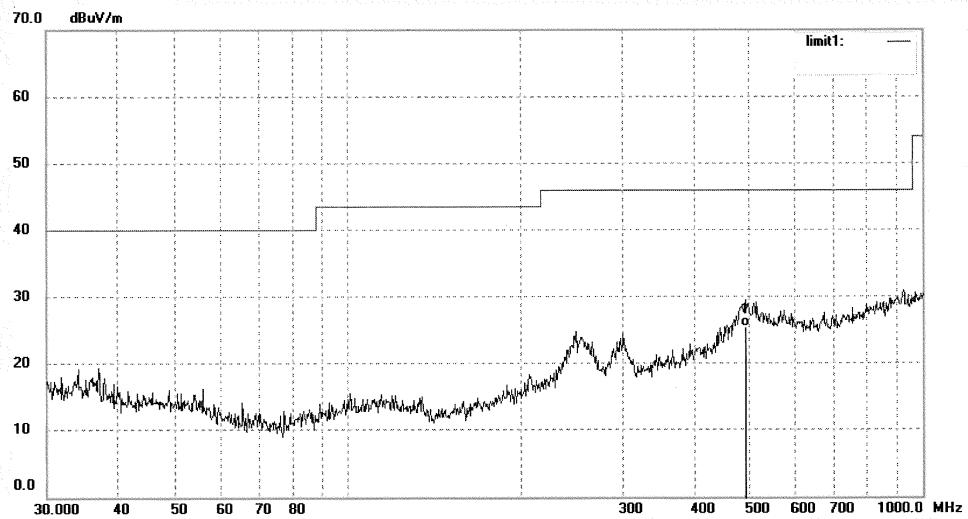
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #24	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp. (C)/Hum.(%) 23 C / 48 %	Time: 12:10:52
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
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	493.5009	30.51	-5.09	25.42	46.00	-20.58	QP			

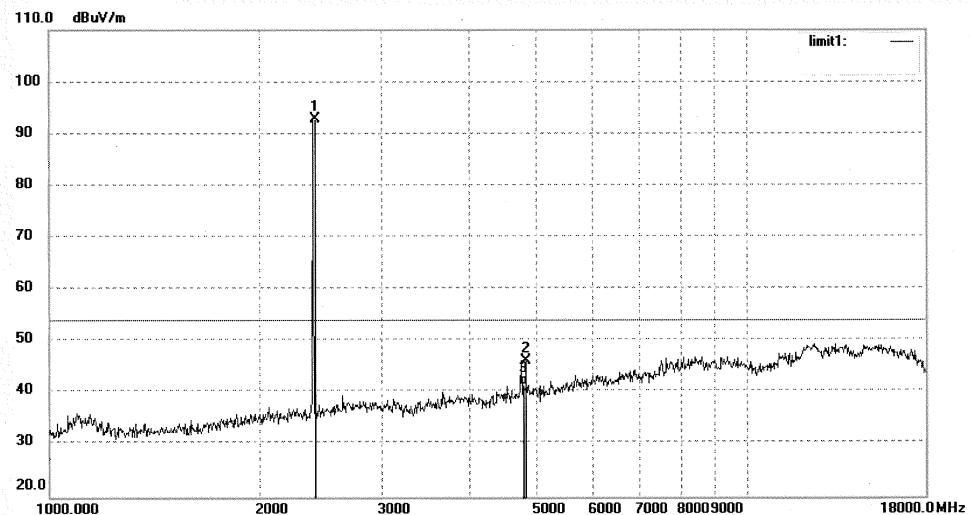
Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 37 von 96
Page 37 of 96

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.: PHY #11	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9:54:50
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
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	2402.000	100.22	-7.45	92.77	/	/	peak			
2	4803.986	46.50	-0.30	46.20	74.00	-27.80	peak			
3	4803.986	41.88	-0.30	41.58	54.00	-12.42	AVG			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 38 von 96
Page 38 of 96

ACCURATE TECHNOLOGY CO., LTD.

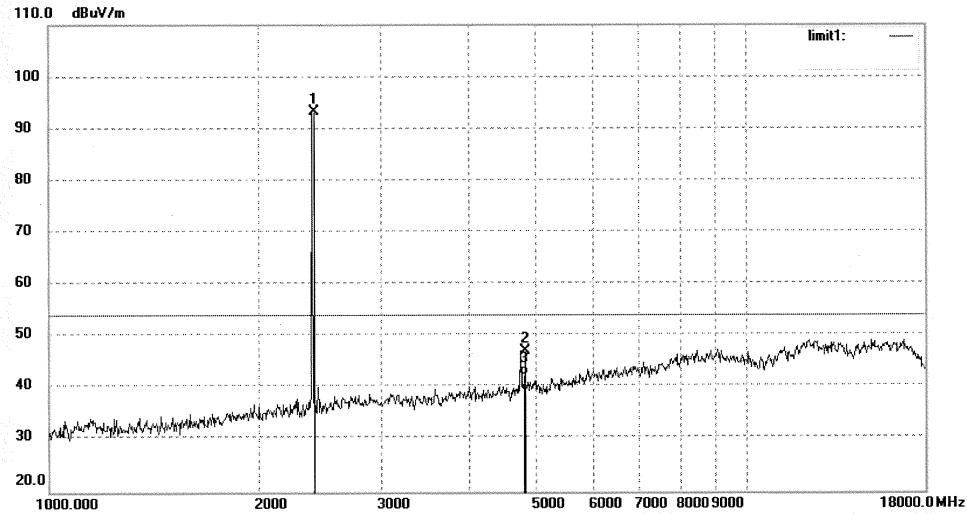
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #12	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp. (C)/Hum.(%) 23 C / 48 %	Time: 10:06:38
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
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	2402.000	100.73	-7.45	93.28	/	/	peak			
2	4803.979	47.50	-0.30	47.20	74.00	-26.80	peak			
3	4803.979	42.79	-0.30	42.49	54.00	-11.51	AVG			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 39 von 96
Page 39 of 96

ACCURATE TECHNOLOGY CO., LTD.

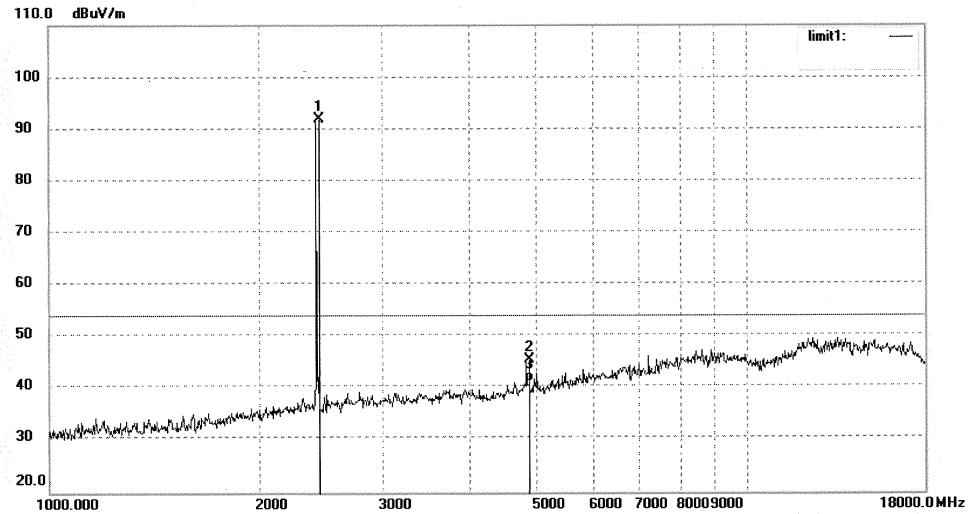
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #14	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10:30:27
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
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	2441.000	99.13	-7.35	91.78	/	/	peak			
2	4881.958	45.48	0.14	45.62	74.00	-28.38	peak			
3	4881.958	41.02	0.14	41.16	54.00	-12.84	AVG			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 40 von 96
Page 40 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

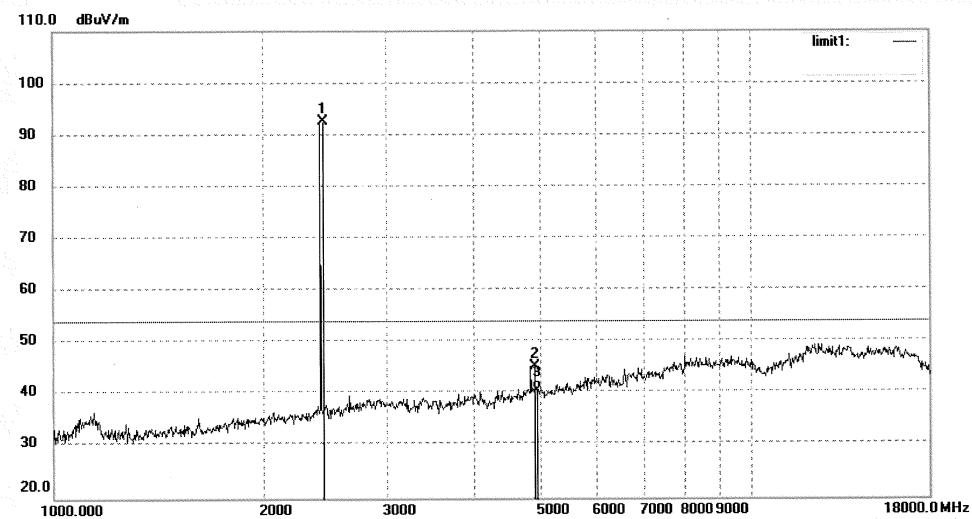
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #13	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10:19:48
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MD-SPBT01	
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	2441.000	99.94	-7.35	92.59	/	/	peak			
2	4881.965	45.25	0.14	45.39	74.00	-28.61	peak			
3	4881.965	40.73	0.14	40.87	54.00	-13.13	AVG			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 41 von 96
Page 41 of 96

ACCURATE TECHNOLOGY CO., LTD.

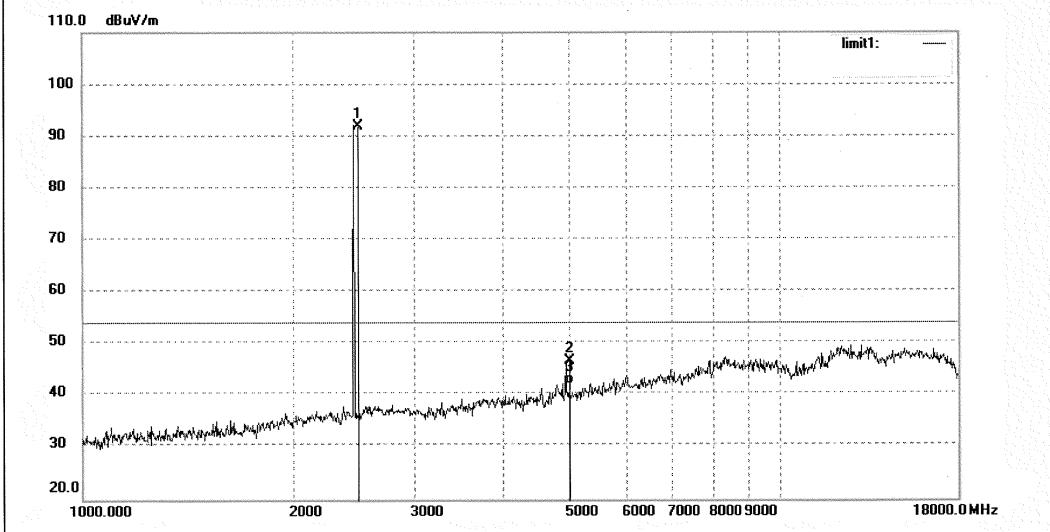
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #15	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10:41:55
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
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	2480.000	99.37	-7.37	92.00	/	/	peak			
2	4959.982	46.17	0.52	46.69	74.00	-27.31	peak			
3	4959.982	41.65	0.52	42.17	54.00	-11.83	AVG			

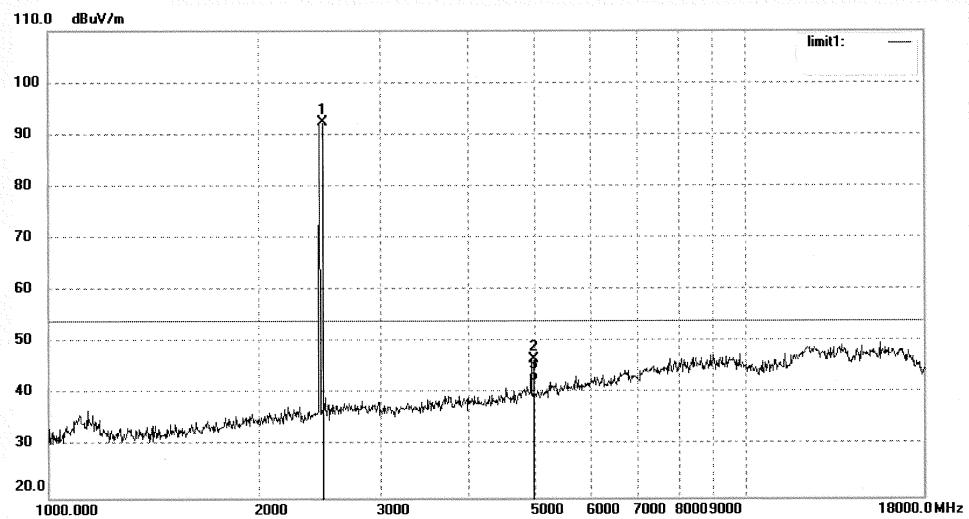
Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 42 von 96
Page 42 of 96

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.: PHY #16	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 10:53:50
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
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	2480.000	99.61	-7.37	92.24	/	/	peak			
2	4959.984	46.16	0.52	46.68	74.00	-27.32	peak			
3	4959.984	41.79	0.52	42.31	54.00	-11.69	AVG			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 43 von 96
Page 43 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

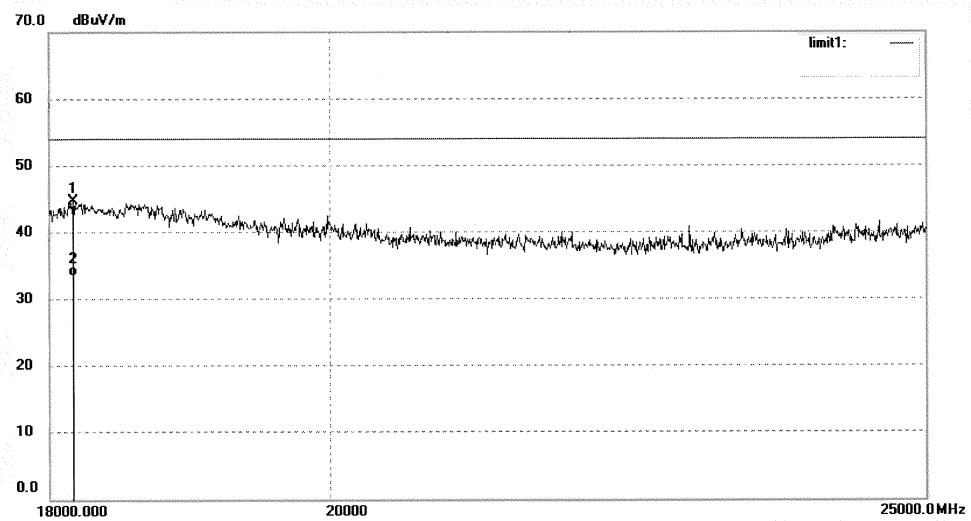
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #37	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 14:11:17
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
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	18160.686	28.31	16.45	44.76	54.00	-9.24	peak			
2	18160.686	17.06	16.45	33.51	54.00	-20.49	AVG			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 44 von 96
Page 44 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

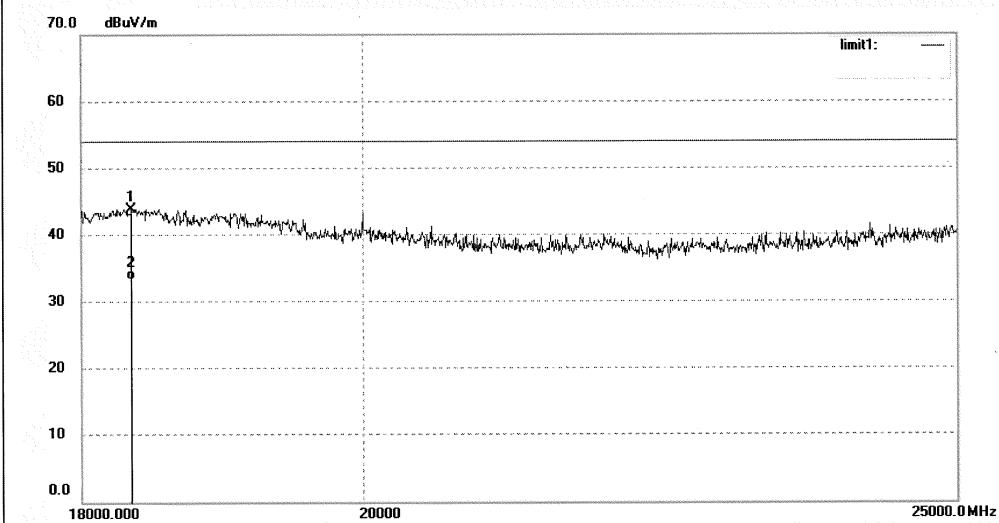
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #38
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp. (C)/Hum.(%) 23 C / 48 %
 EUT: Bluetooth Speaker
 Mode: TX 2402MHz
 Model: MD-SPBT01
 Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
 Power Source: DC 3.7V
 Date: 2013-9-10
 Time: 14:21:28
 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	18340.909	27.01	16.85	43.86	54.00	-10.14	peak			
2	18340.909	16.45	16.85	33.30	54.00	-20.70	AVG			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 45 von 96
Page 45 of 96

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.: PHY #40

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 2013-9-10

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

Time: 14:40:12

EUT: Bluetooth Speaker

Engineer Signature: PEI

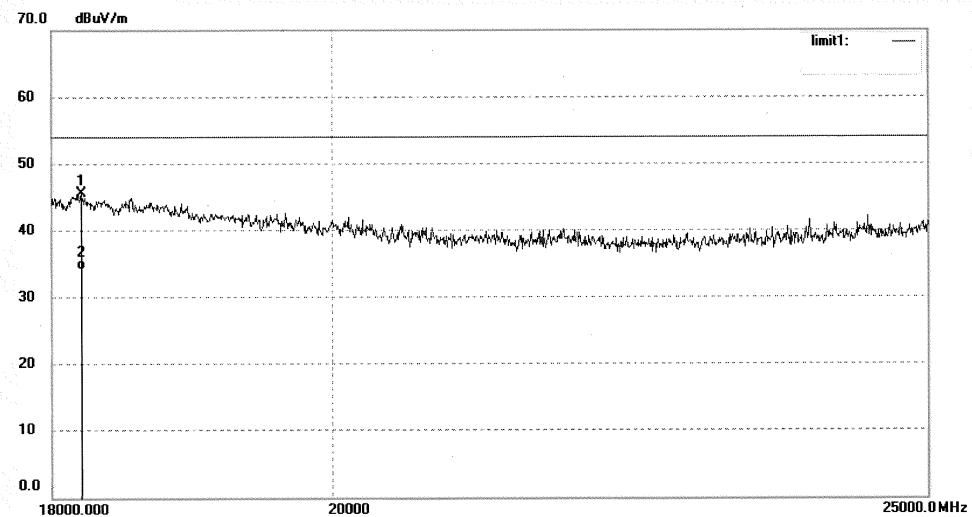
Mode: TX 2441MHz

Distance: 3m

Model: MD-SPBT01

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	18202.579	28.99	16.55	45.54	54.00	-8.46	peak			
2	18202.579	17.62	16.55	34.17	54.00	-19.83	AVG			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 46 von 96
Page 46 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

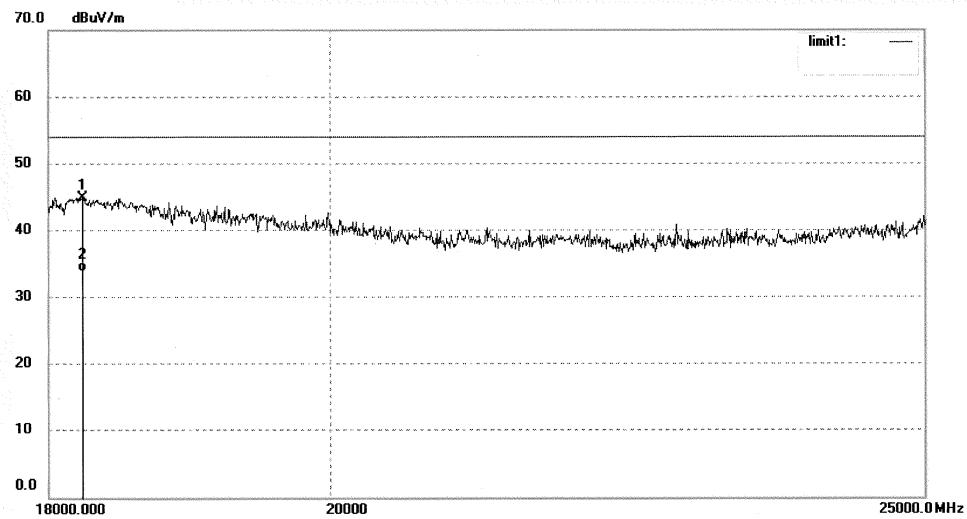
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #39
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Speaker
Mode: TX 2441MHz
Model: MD-SPBT01
Manufacturer: Compupal (Group) Corporation

Polarization: Vertical
Power Source: DC 3.7V
Date: 2013-9-10
Time: 14:32:55
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	18232.561	28.30	16.61	44.91	54.00	-9.09	peak			
2	18232.561	17.23	16.61	33.84	54.00	-20.16	AVG			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 47 von 96
Page 47 of 96

ACCURATE TECHNOLOGY CO., LTD.

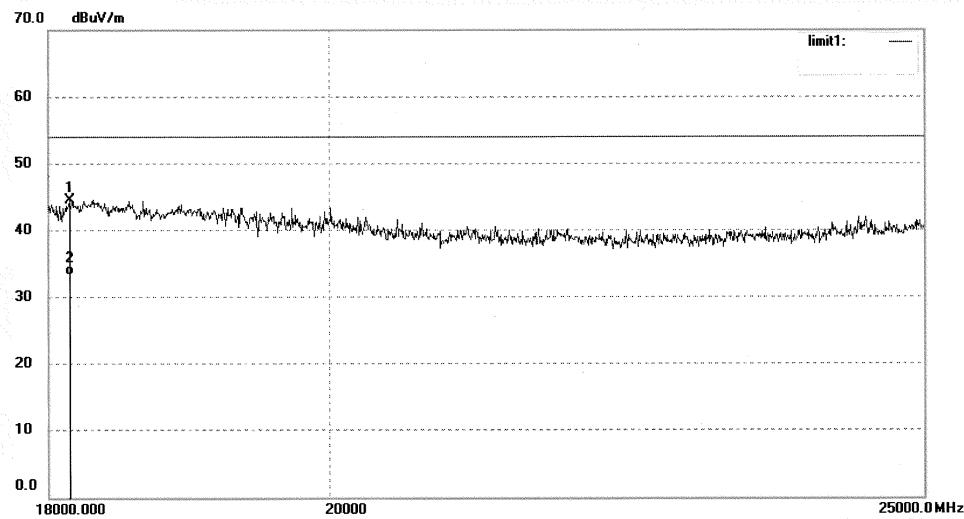
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: PHY #41
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Bluetooth Speaker
 Mode: TX 2480MHz
 Model: MD-SPBT01
 Manufacturer: Compupal (Group) Corporation

 Polarization: Horizontal
 Power Source: DC 3.7V
 Date: 2013-9-10
 Time: 14:49:35
 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	18142.761	28.17	16.41	44.58	54.00	-9.42	peak			
2	18142.761	16.87	16.41	33.28	54.00	-20.72	AVG			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 48 von 96
Page 48 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

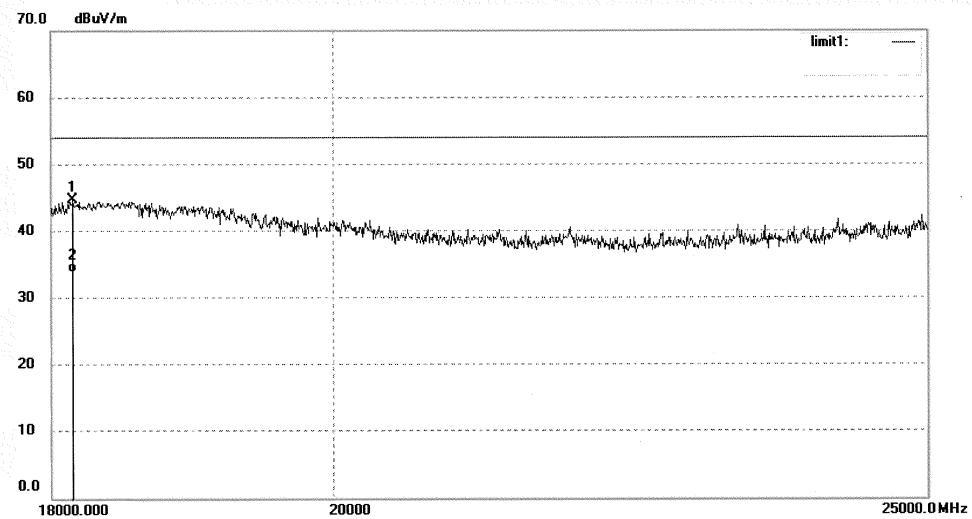
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #42	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp. (C)/Hum.(%) 23 C / 48 %	Time: 14:57:40
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: MD-SPBT01	
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	18148.734	28.21	16.43	44.64	54.00	-9.36	peak			
2	18148.734	17.48	16.43	33.91	54.00	-20.09	AVG			

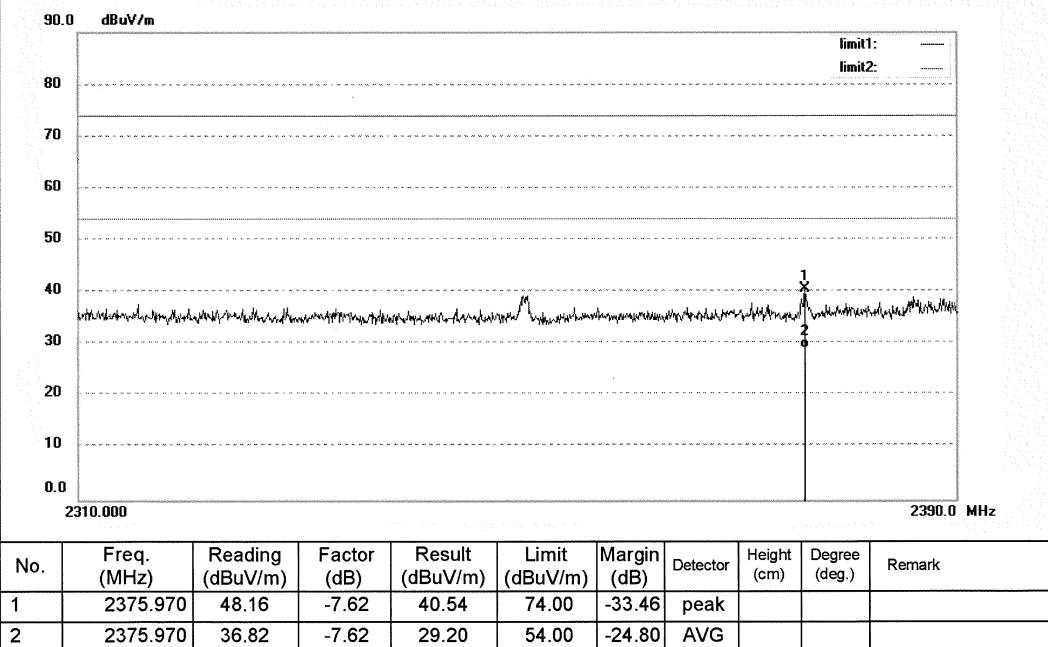
Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 49 von 96
Page 49 of 96
Test Plot of Frequency Band Edge

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.: PHY #10	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9:42:48
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
Manufacturer: Compupal (Group) Corporation	
Note:	



Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 50 von 96
Page 50 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

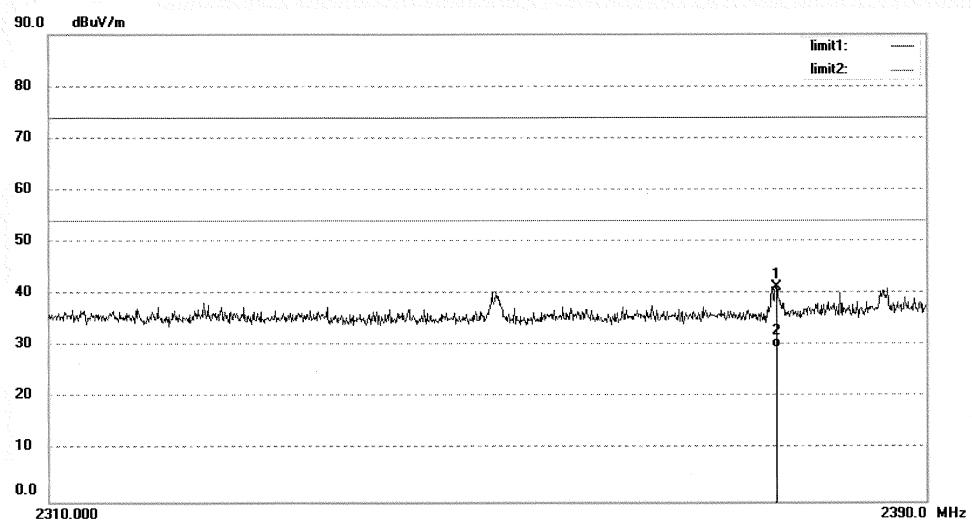
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #9	Polarization: Vertical
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 9:33:44
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MD-SPBT01	
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	2376.162	48.86	-7.62	41.24	74.00	-32.76	peak			
2	2376.162	37.12	-7.62	29.50	54.00	-24.50	AVG			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 51 von 96
Page 51 of 96

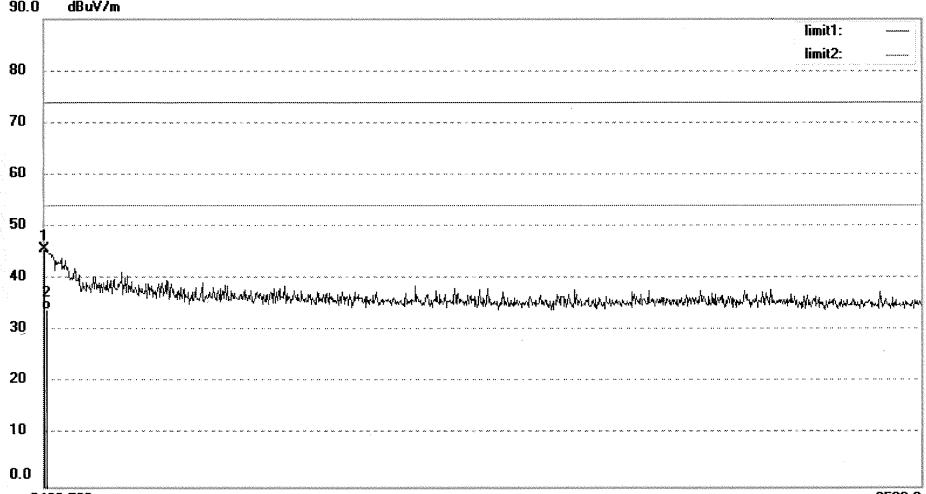
ACCURATE TECHNOLOGY CO., LTD.

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.:	PHY #18	Polarization:	Horizontal							
Standard:	FCC Part 15 (Band Edge)	Power Source:	DC 3.7V							
Test item:	Radiation Test	Date:	2013-9-10							
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	11:18:57							
EUT:	Bluetooth Speaker	Engineer Signature:	PEI							
Mode:	TX 2480MHz	Distance:	3m							
Model:	MD-SPBT01									
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	53.14	-7.37	45.77	74.00	-28.23	peak			
2	2483.500	41.37	-7.37	34.00	54.00	-20.00	Avg			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 52 von 96
Page 52 of 96

ACCURATE TECHNOLOGY CO., LTD.

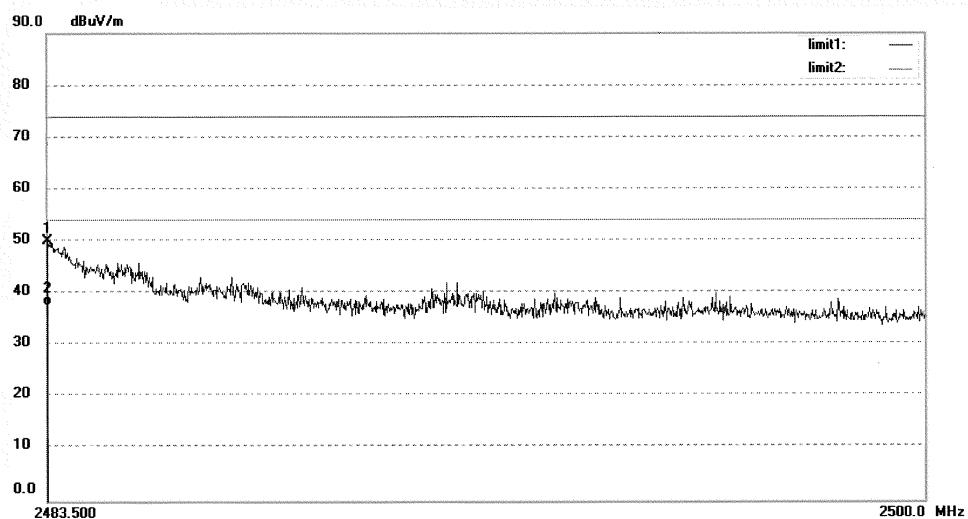
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: PHY #17
Standard: FCC Part 15 (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Speaker
Mode: TX 2480MHz
Model: MD-SPBT01
Manufacturer: Compupal (Group) Corporation

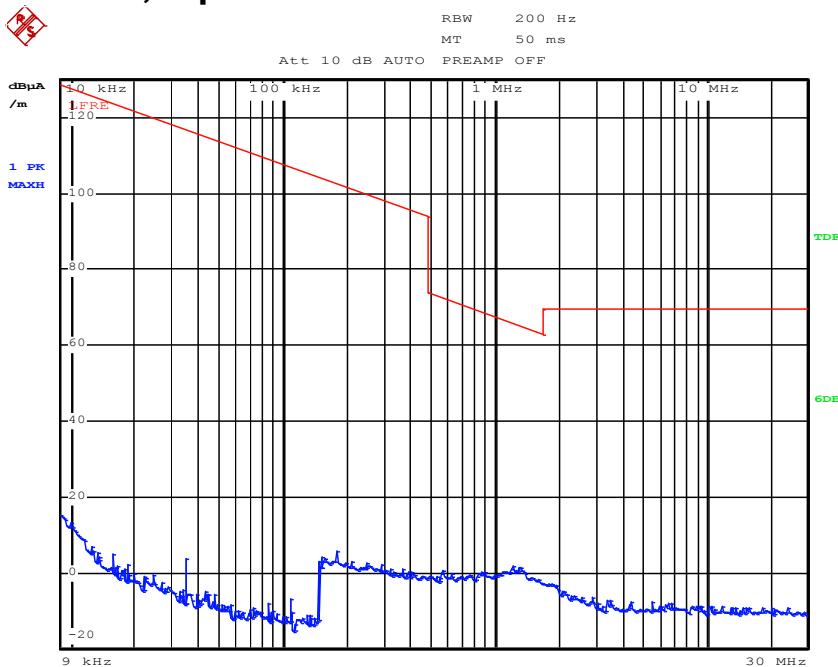
Polarization: Vertical
Power Source: DC 3.7V
Date: 2013-9-10
Time: 11:09:04
Engineer Signature: PEI
Distance: 3m

Note:



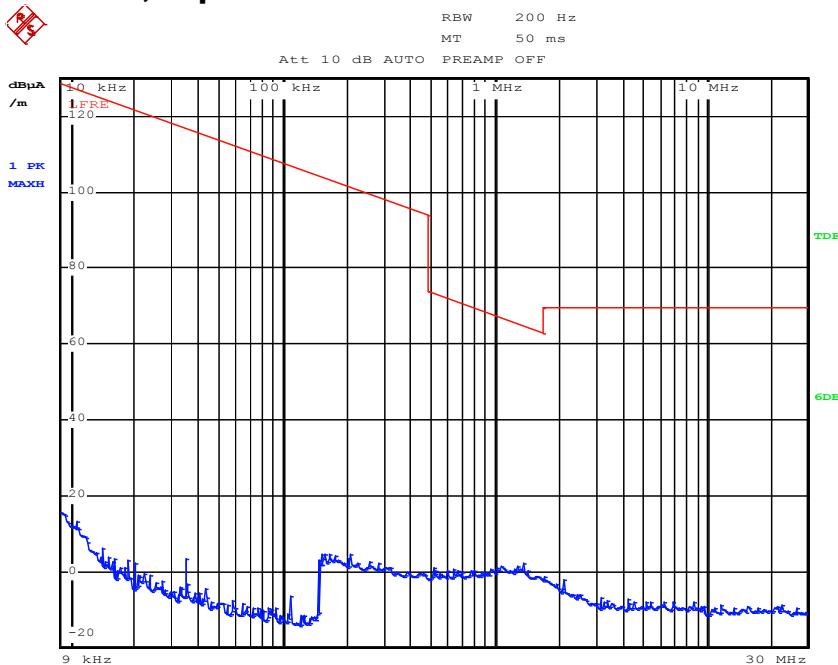
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.38	-7.37	50.01	74.00	-23.99	peak			
2	2483.500	45.07	-7.37	37.70	54.00	-16.30	AVG			

Test Plot of Spurious Emission of receiving Low channel, X polarization:

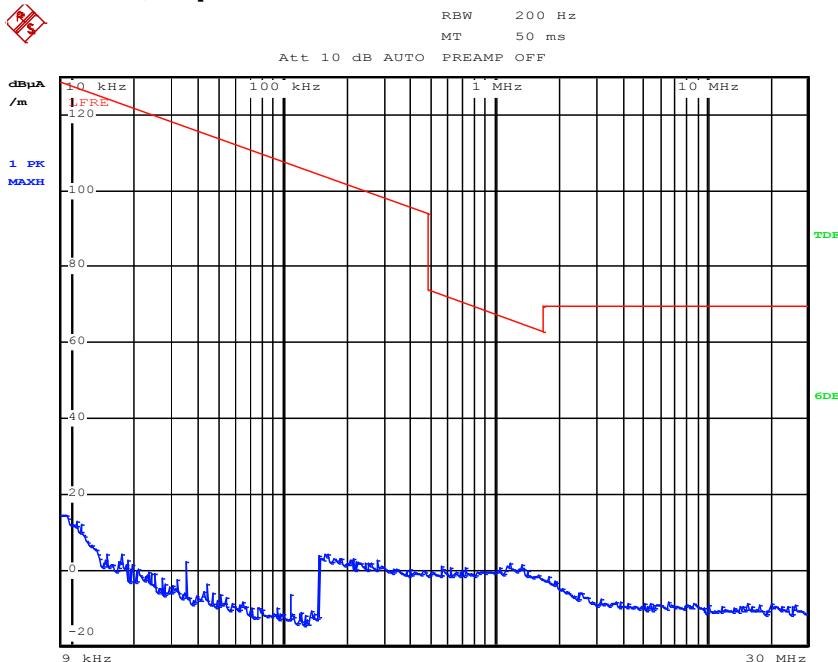


Date: 11.SEP.2013 10:03:08

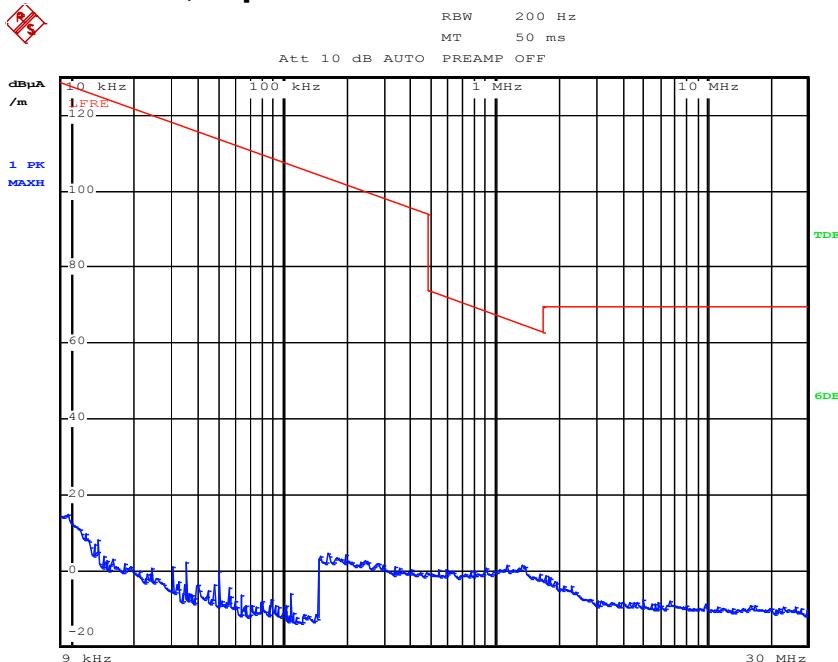
Low channel, Y polarization:



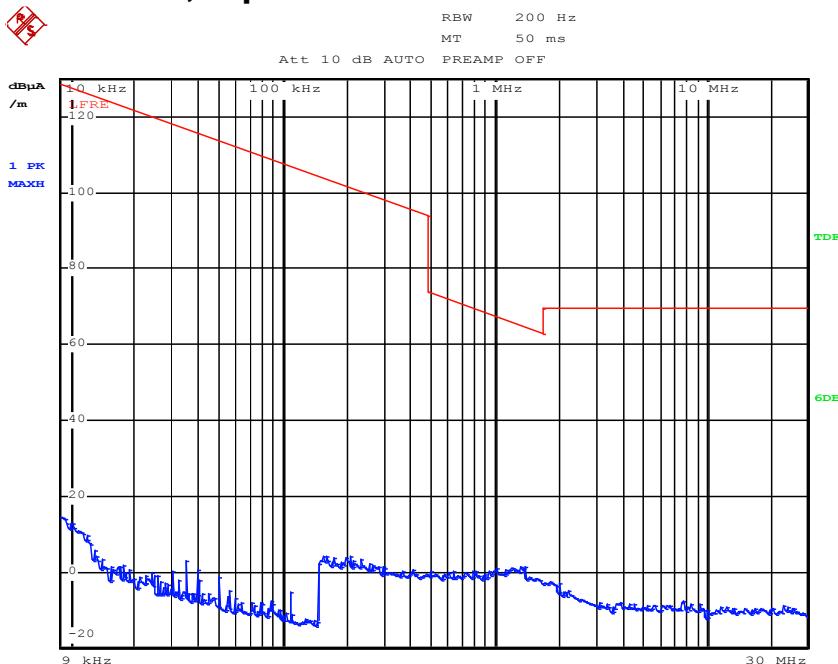
Date: 11.SEP.2013 10:05:06

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 54 von 96
Page 54 of 96
Low channel, Z polarization:


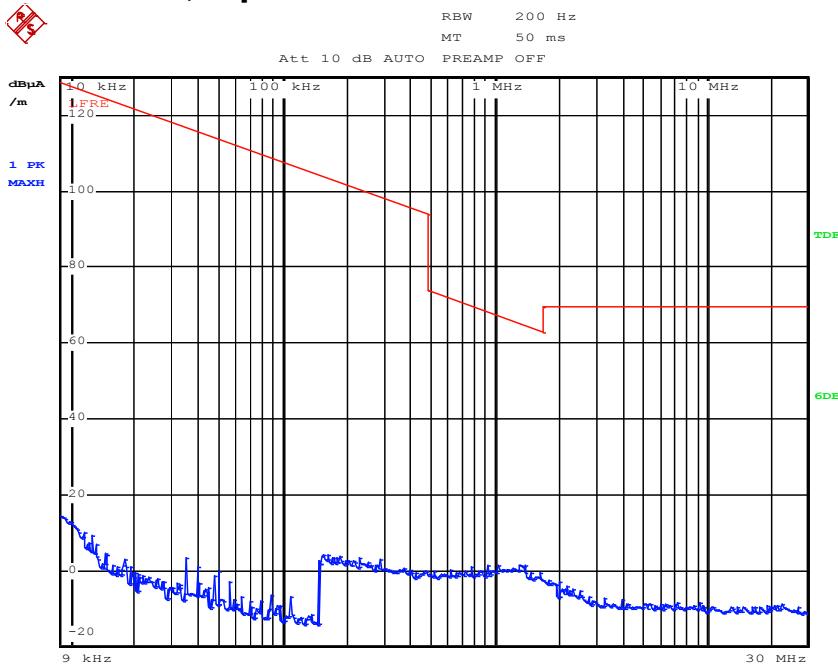
Date: 11.SEP.2013 10:07:03

Middle channel, X polarization:


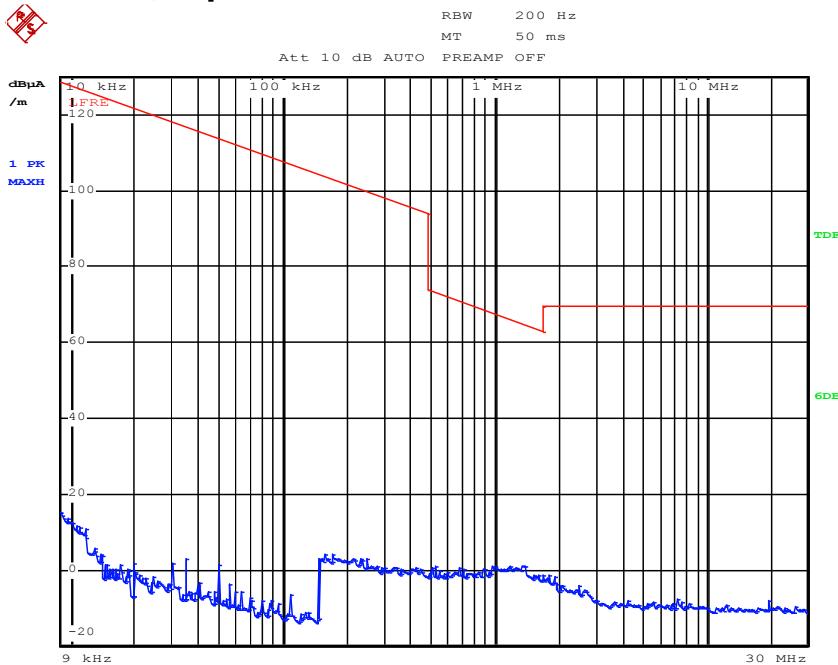
Date: 11.SEP.2013 10:09:07

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 55 von 96
Page 55 of 96
Middle channel, Y polarization:


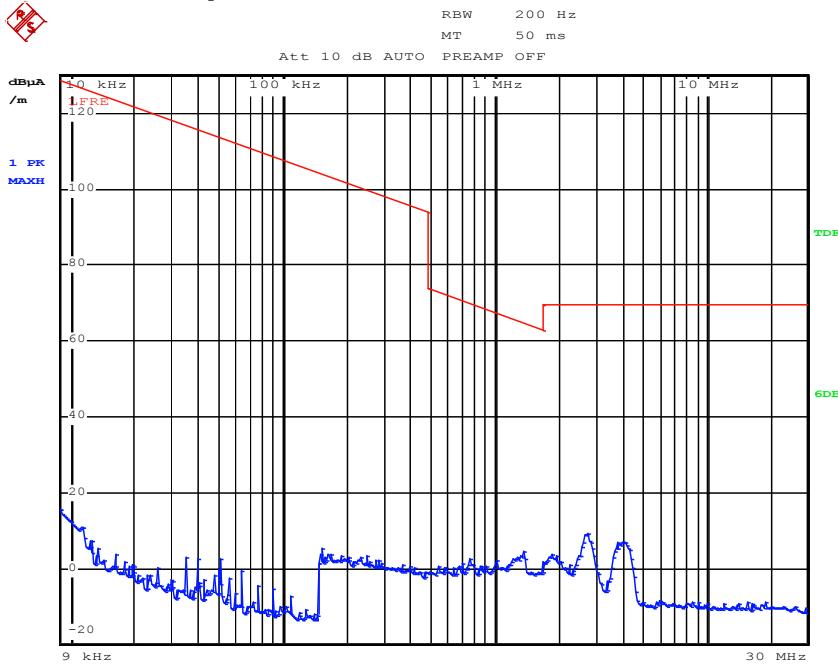
Date: 11.SEP.2013 10:11:01

Middle channel, Z polarization:


Date: 11.SEP.2013 10:12:56

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 56 von 96
Page 56 of 96
High channel, X polarization:


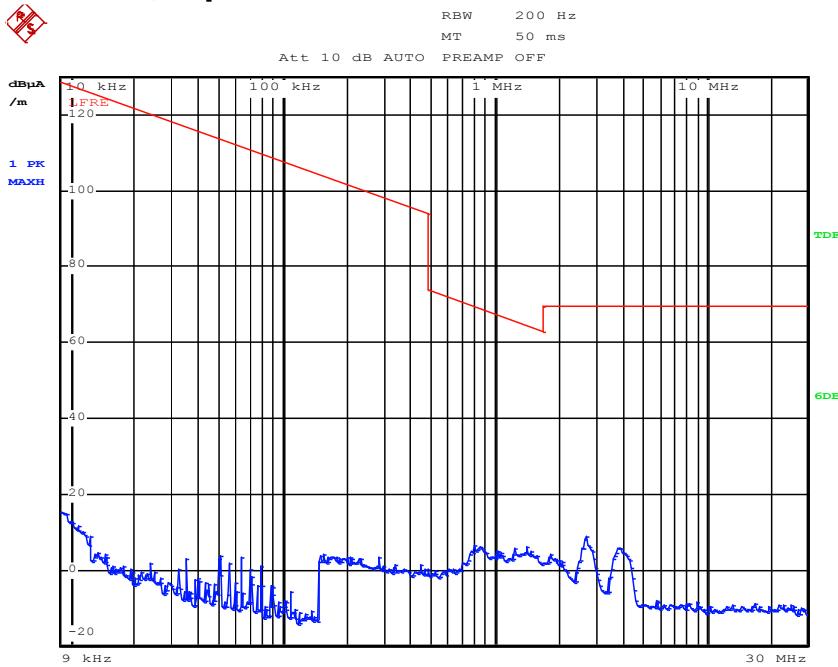
Date: 11.SEP.2013 10:14:50

High channel, Y polarization:


Date: 11.SEP.2013 10:16:45

Prüfbericht - Nr.: 17035527 001
Test Report No.Seite 57 von 96
Page 57 of 96

High channel, Z polarization:



Date: 11.SEP.2013 10:18:40

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 58 von 96
Page 58 of 96

ACCURATE TECHNOLOGY CO., LTD.

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

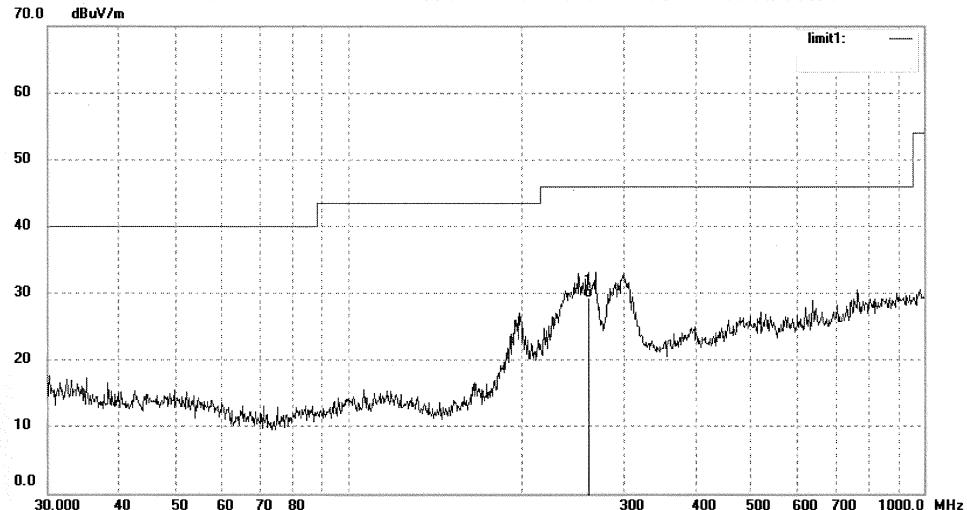
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #26	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013-9-10
Temp. (C)/Hum.(%) 23 C / 48 %	Time: 12:27:36
EUT: Bluetooth Speaker	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: MD-SPBT01	
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	260.3566	39.94	-10.70	29.24	46.00	-16.76	QP			

Prüfbericht - Nr.: 17035527 001
Test Report No.
Seite 59 von 96
Page 59 of 96

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.: PHY #25

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 2013-9-10

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

Time: 12:18:01

EUT: Bluetooth Speaker

Engineer Signature: PEI

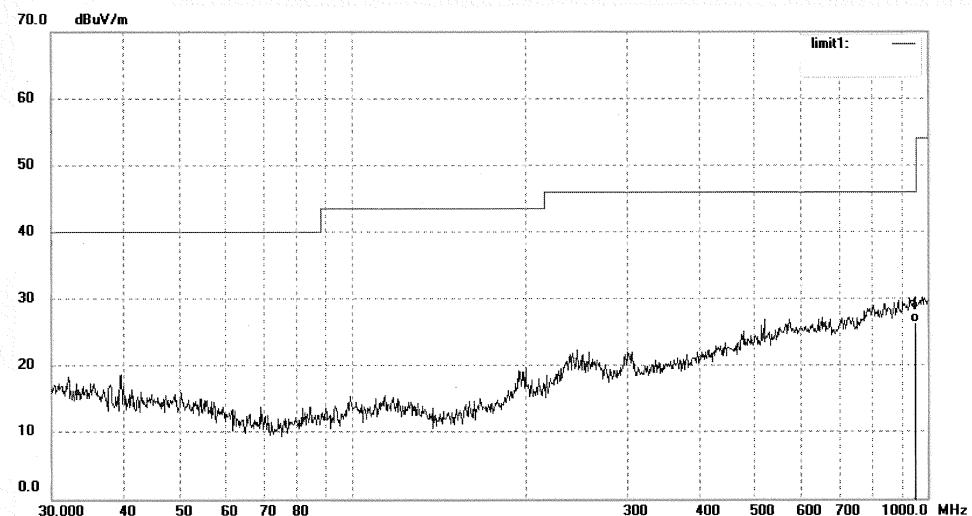
Mode: RX 2402MHz

Distance: 3m

Model: MD-SPBT01

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	952.0001	24.05	2.21	26.26	46.00	-19.74	QP			

Prüfbericht - Nr.: **17035527 001**
Test Report No.
Seite 60 von 96
Page 60 of 96

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.: PHY #27

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.7V

Test item: Radiation Test

Date: 2013-9-10

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

Time: 12:36:45

EUT: Bluetooth Speaker

Engineer Signature: PEI

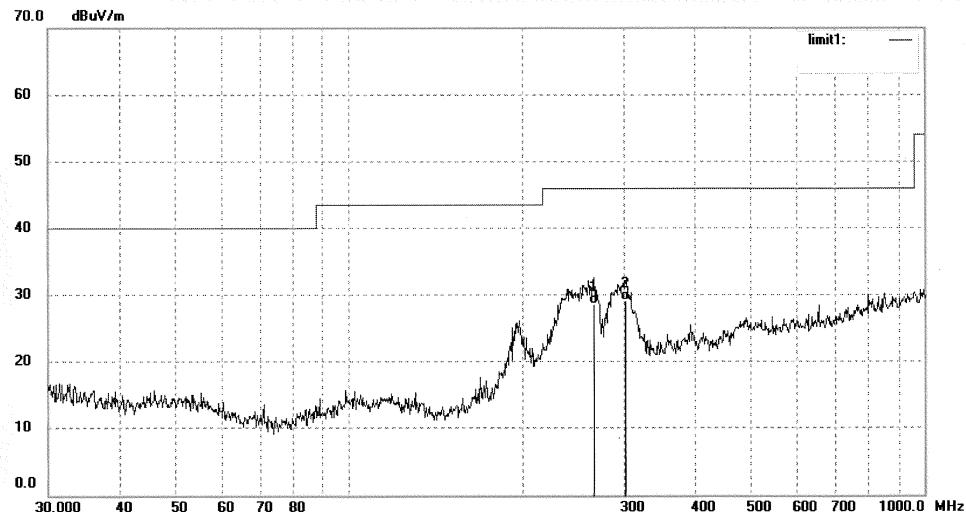
Mode: RX 2441MHz

Distance: 3m

Model: MD-SPBT01

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	265.9035	38.98	-10.38	28.60	46.00	-17.40	QP			
2	301.7572	38.32	-9.26	29.06	46.00	-16.94	QP			