

Prüfbericht-Nr.: <i>Test Report No.:</i>	17056400 001	Auftrags-Nr.: <i>Order No.:</i>	164051548	Seite 1 von 60 <i>Page 1 of 60</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	10.12.2015	
Auftraggeber: <i>Client:</i>	Dongguan Newmen Electronics Technology Co., LTD No.5, Xifa Road, Lin Village, Tangxia Town, Dongguan, Guangdong, China			
Prüfgegenstand: <i>Test item:</i>	2.4GHz Wireless Presenter			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	P-001			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 RSS-210 Issue 8 December 2010 FCC KDB Publication 447498 D01 v06		CFR47 FCC Part 15: Subpart C Section 15.209 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015	
Wareneingangsdatum: <i>Date of receipt:</i>	20.12.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000293406-003			
Prüfzeitraum: <i>Testing period:</i>	24.12.2015 - 18.01.2016			
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:		
05.02.2016 Owen Tian/Senior Project Engineer		05.02.2016 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>				

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.3 FUNDAMENTAL & HARMONICS RADIATED EMISSION

RESULT: Pass

5.1.1 RADIATED EMISSIONS OUTSIDE OF THE BAND

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

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)

(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				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-14
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2016-01-14
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2016-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2016-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	620050647 4	2016-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2016-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2016-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2016-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2016-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2016-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2016-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2016-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2016-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2016-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2016-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2016-01-09
Voltage Probe	Schwarzbeck	TK9416	N/A	2016-01-09
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2016-01-09
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2016-01-09
RF Coaxial Cable	Suhner	N-2m	No.2	2016-01-09
RF Coaxial Cable	Suhner	N-2m	No.3	2016-01-09
RF Coaxial Cable	Suhner	N-2m	No.14	2016-01-09

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 EUT is a 2.4GHz wireless presenter used with a USB dongle. 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	2.4GHz Wireless Presenter
Type Designation	P-001
FCC ID	V4P-P001NOR
IC	12487A-P001NOR
Operating Frequency	2402 – 2476MHz
Channel separation	1MHz
Number of Channel	75
Extreme Temperature Range	-15~+40°C
Operation Voltage	DC 3V (via 2 x 'AAA' size battery)
Modulation	GFSK
Antenna Gain	-2dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Transmitting
 - 2. Receiving
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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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 C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

None.

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 for below 1GHz

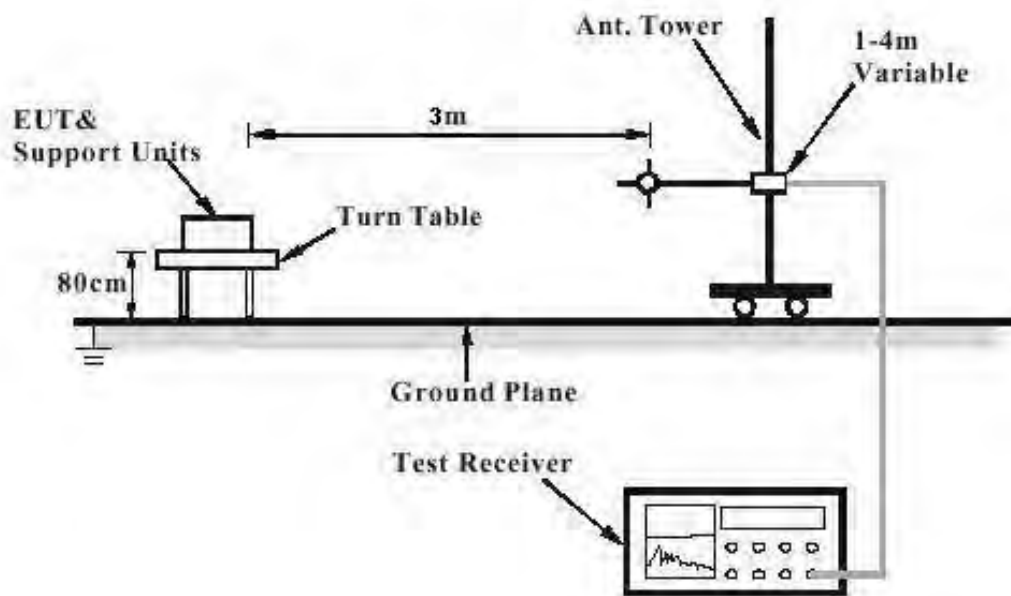


Diagram of Measurement Configuration for Radiation Test for above 1GHz

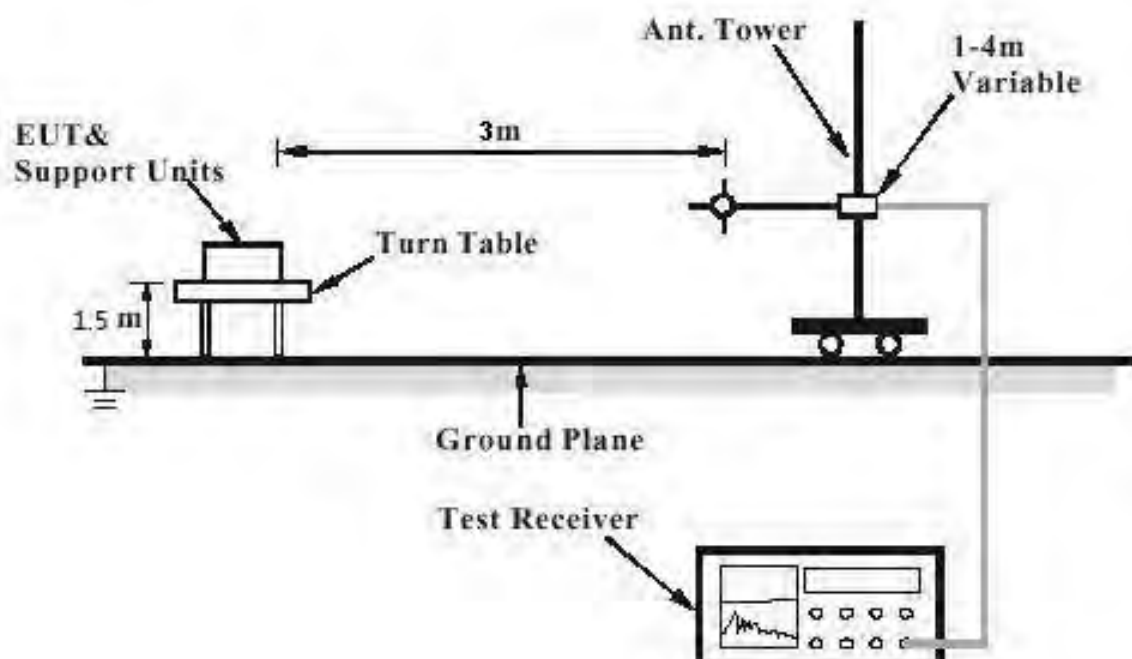
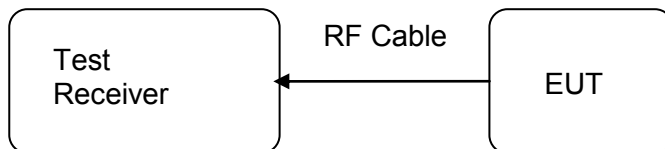


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard	:	Part 15.203 RSS-Gen 8.3
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.

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5.1.2 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2016-01-18
Test standard : FCC Part 15.249
RSS-210 A8.1(a)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded room

Test setup

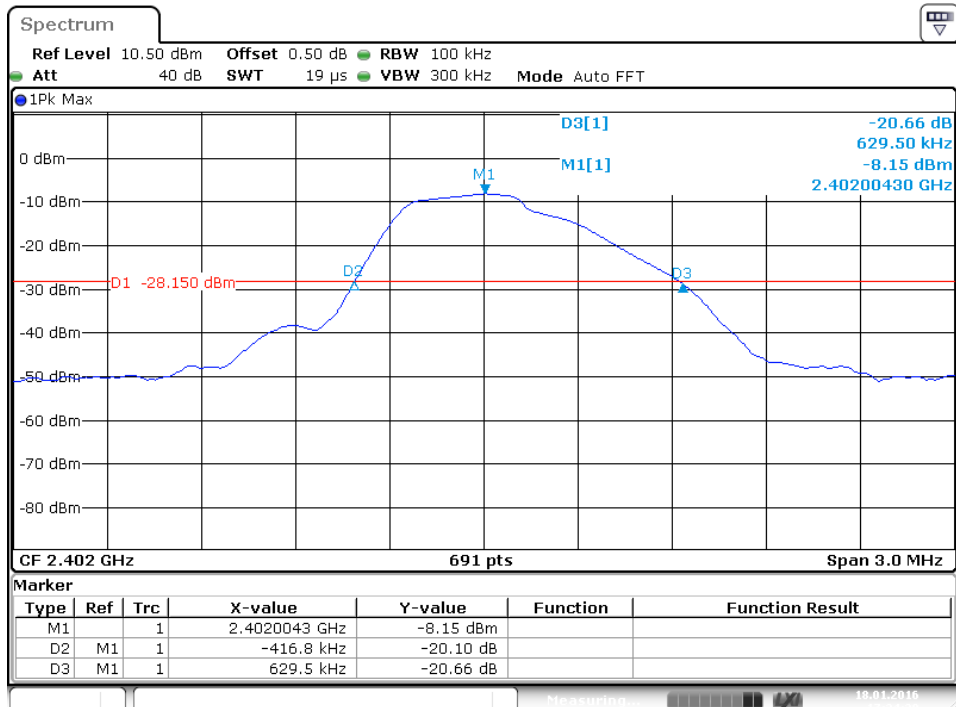
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 21°C
Relative humidity : 60%
Atmospheric pressure : 101kPa

Table 4: Test result of 20dB & 99% Bandwidth

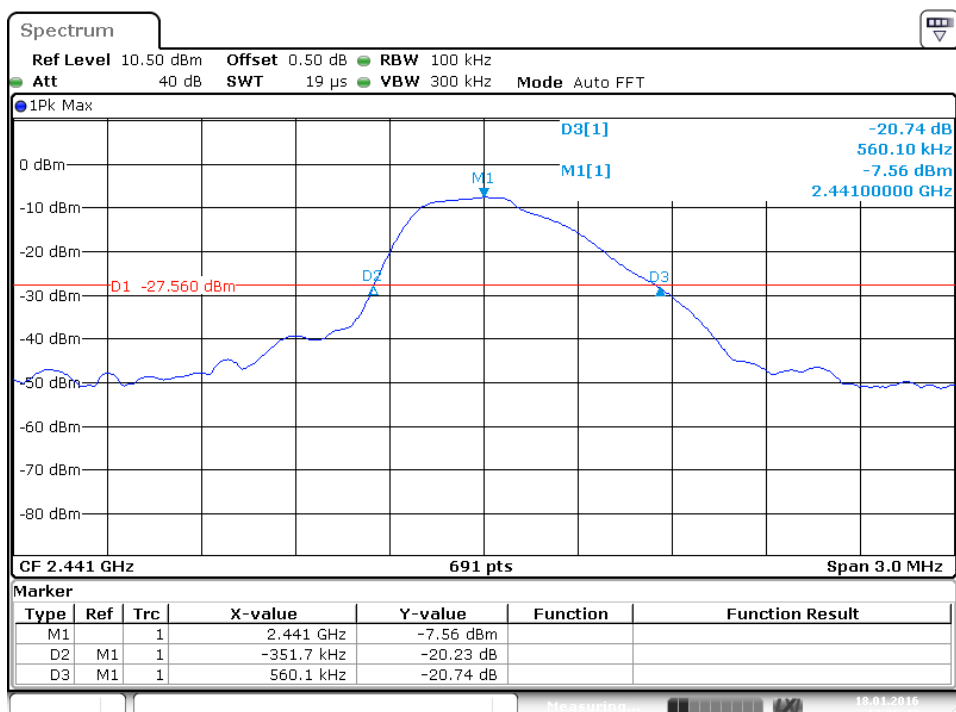
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1046.3	890.0
Mid Channel	2441	911.8	699.0
High Channel	2476	1193.9	989.9

For details refer to following test plot.

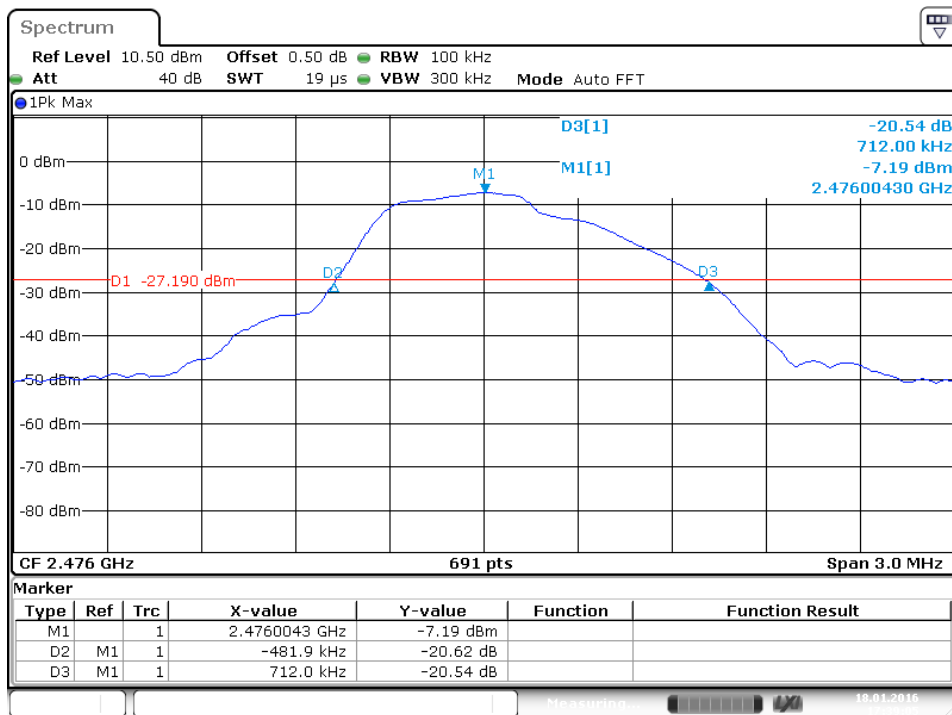
Test Plot of 20dB Bandwidth



Date: 18.JAN.2016 17:34:29

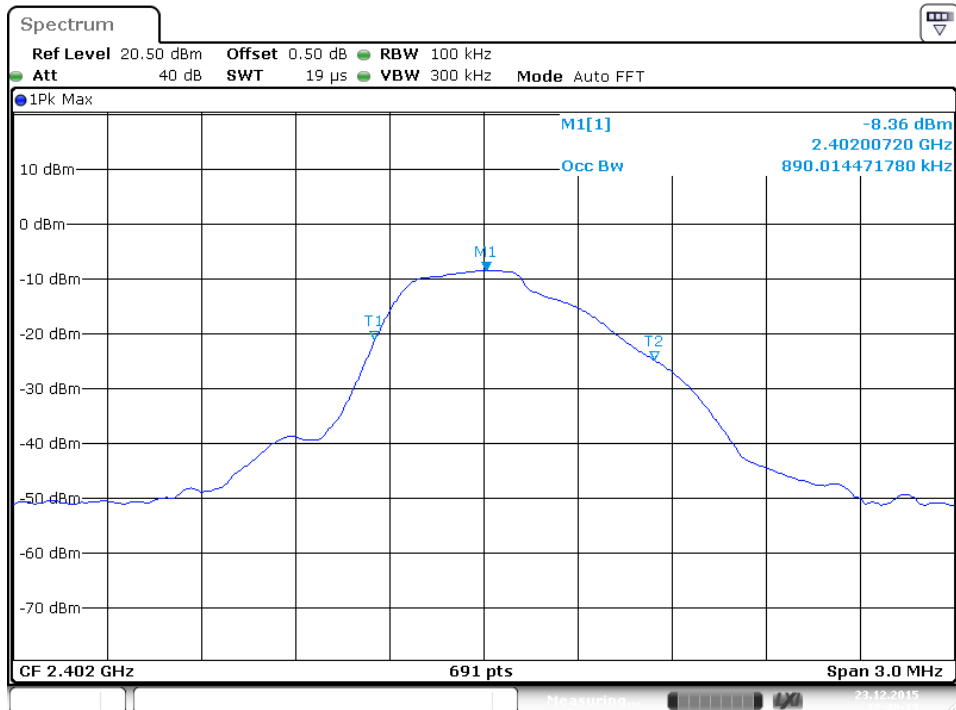


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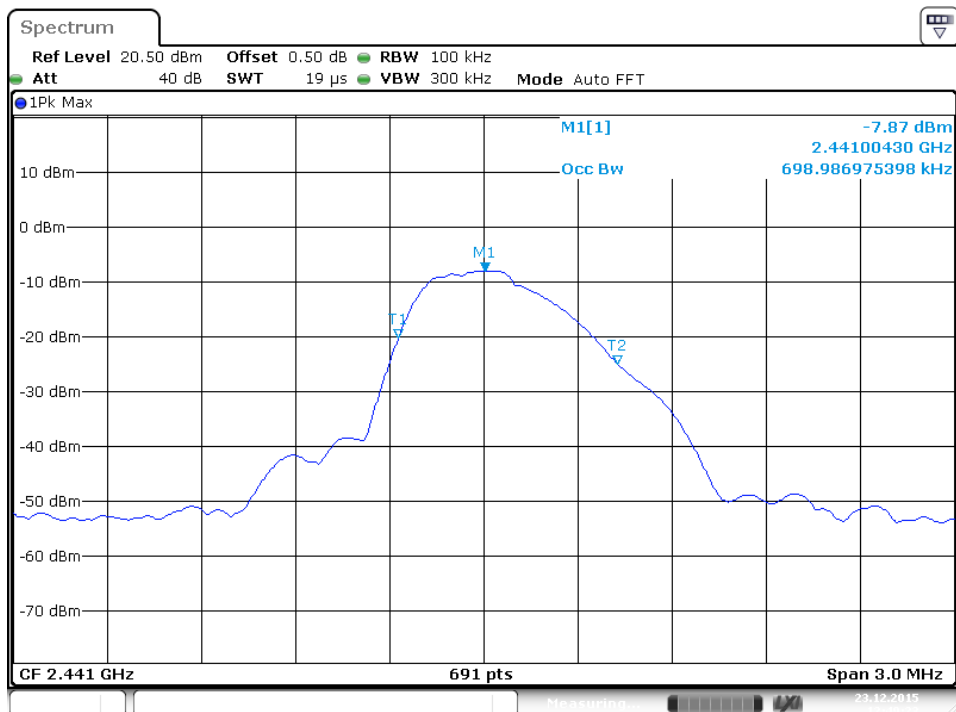


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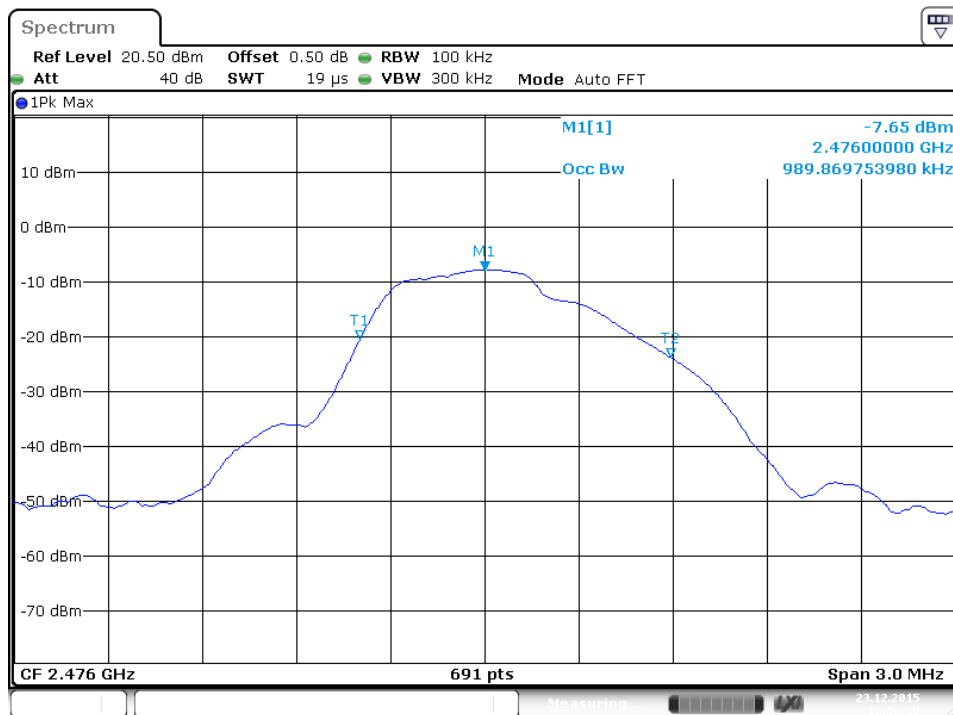
Test Plot of 99% Bandwidth



Date: 23.DEC.2015 12:48:13



Date: 23.DEC.2015 12:49:23



Date: 23.DEC.2015 12:56:30


ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

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Job No.: LGW2015 #2235

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

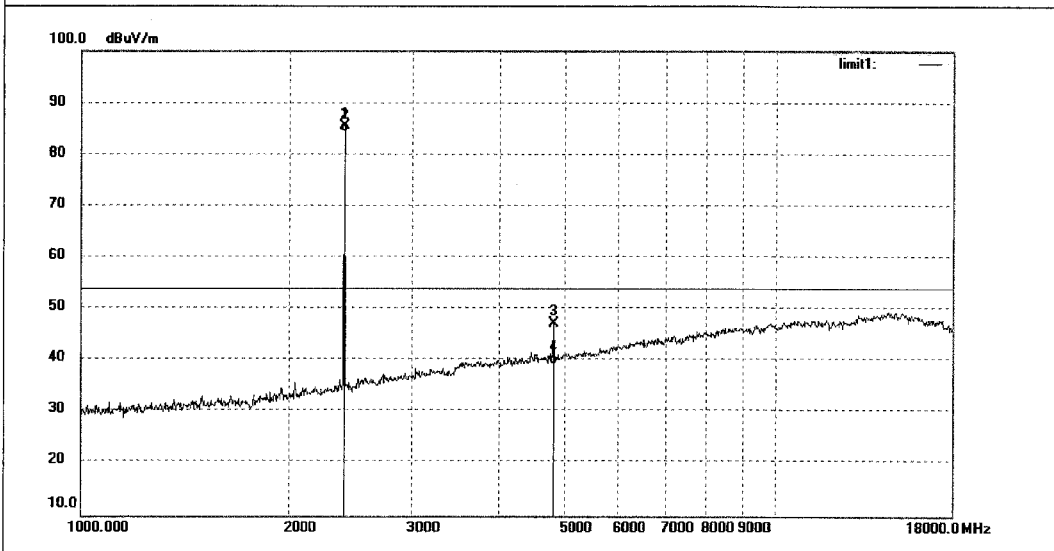
Date: 15/12/24/

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	2402.000	92.89	-7.45	85.44	114.00	-28.56	peak			
2	2402.000	91.78	-7.45	84.33	94.00	-9.67	AVG			
3	4804.026	47.43	-0.30	47.13	74.00	-26.87	peak			
4	4804.026	39.58	-0.30	39.28	54.00	-14.72	AVG			


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Job No.: LGW2015 #2234

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

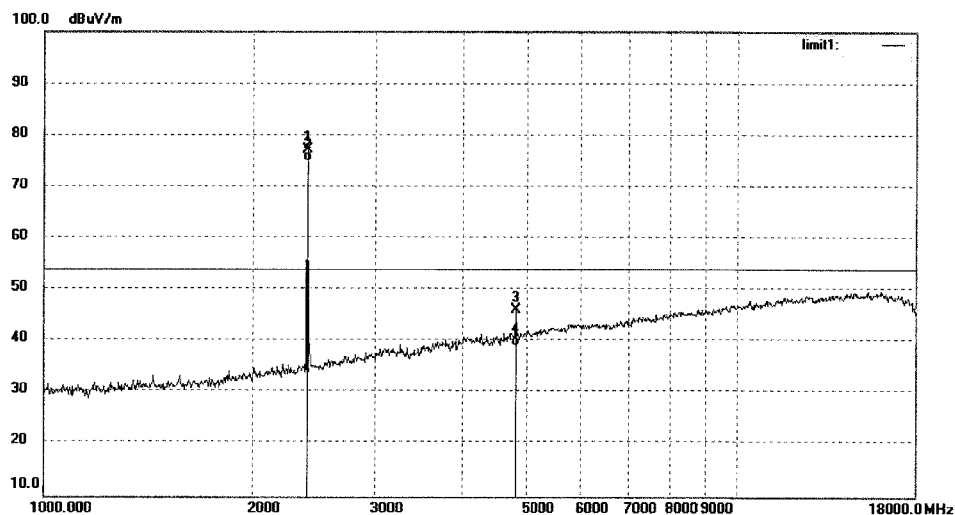
Date: 15/12/24/

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	2402.000	84.58	-7.45	77.13	114.00	-36.87	peak			
2	2402.000	82.46	-7.45	75.01	94.00	-18.99	AVG			
3	4804.030	46.31	-0.30	46.01	74.00	-27.99	peak			
4	4804.030	39.45	-0.30	39.15	54.00	-14.85	AVG			


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Job No.: LGW2015 #2236

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2441MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

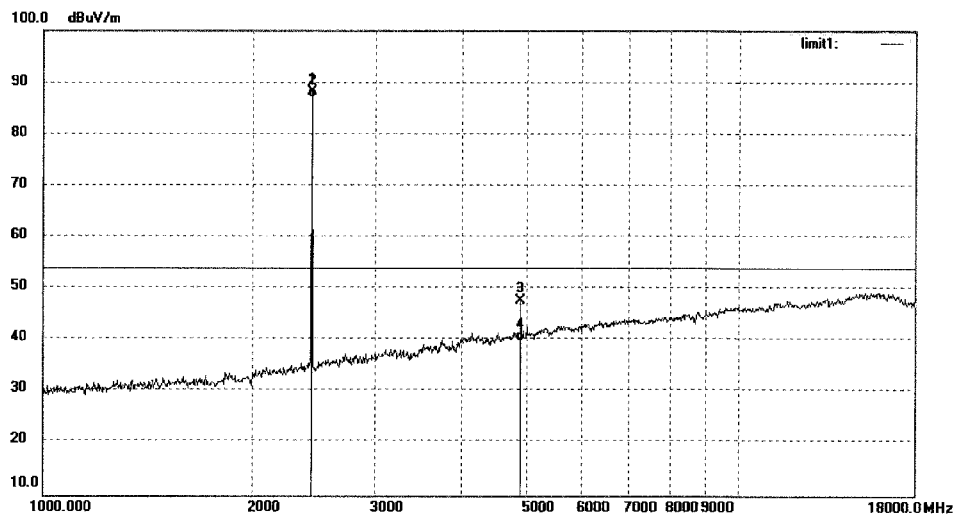
Date: 15/12/24/

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	2441.000	95.60	-7.35	88.25	114.00	-25.75	peak			
2	2441.000	94.40	-7.35	87.05	94.00	-6.95	AVG			
3	4882.019	47.59	0.14	47.73	74.00	-26.27	peak			
4	4882.019	39.60	0.14	39.74	54.00	-14.26	AVG			


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Job No.: LGW2015 #2237

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2441MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

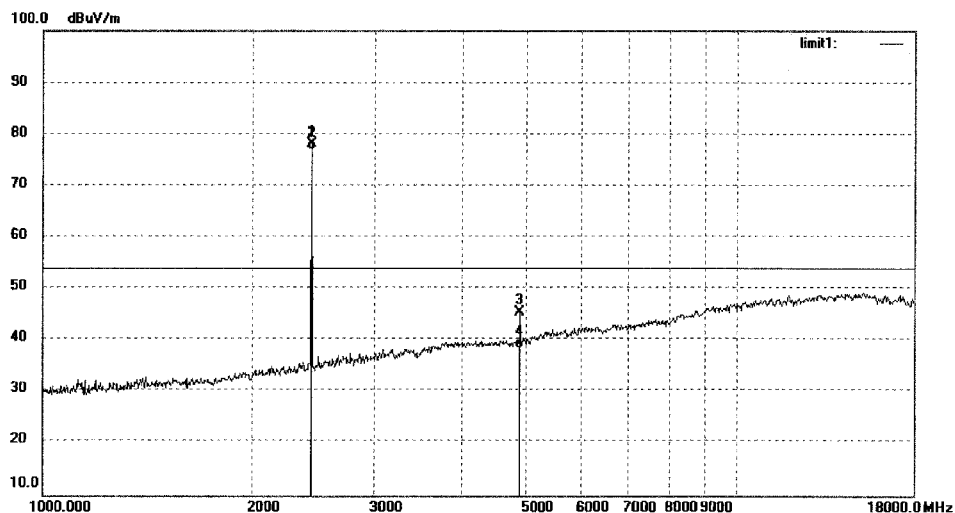
Date: 15/12/24/

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	2441.000	85.52	-7.35	78.17	114.00	-35.83	peak			
2	2441.000	84.35	-7.35	77.00	94.00	-17.00	AVG			
3	4884.019	45.25	0.15	45.40	74.00	-28.60	peak			
4	4884.019	38.38	0.15	38.53	54.00	-15.47	AVG			


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Job No.: LGW2015 #2239

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

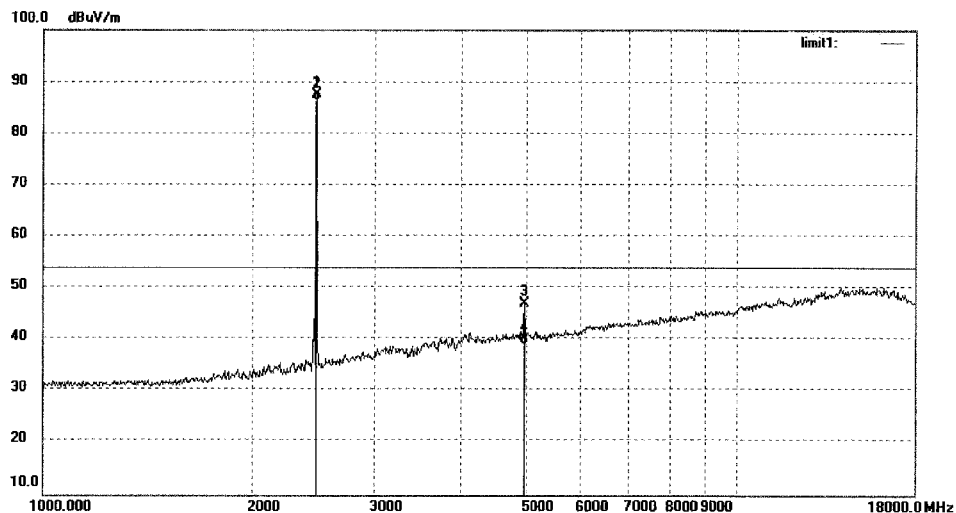
Date: 15/12/24/

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	2476.000	94.90	-7.36	87.54	114.00	-26.46	peak			
2	2476.000	93.81	-7.36	86.45	94.00	-7.55	AVG			
3	4952.023	46.57	0.48	47.05	74.00	-26.95	peak			
4	4952.023	38.68	0.48	39.16	54.00	-14.84	AVG			


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Job No.: LGW2015 #2238

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

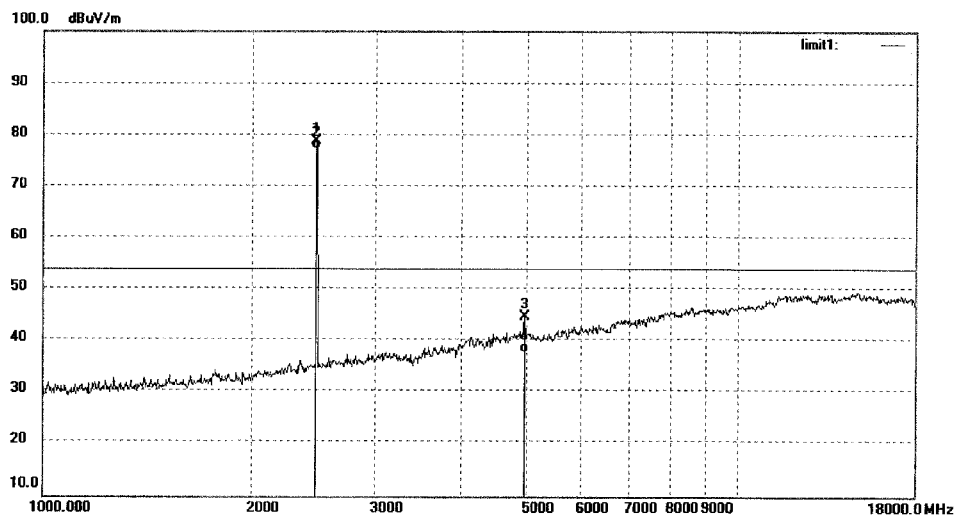
Date: 15/12/24/

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	2476.000	86.09	-7.36	78.73	114.00	-35.27	peak			
2	2476.000	84.56	-7.36	77.20	94.00	-16.80	AVG			
3	4952.025	44.22	0.48	44.70	74.00	-29.30	peak			
4	4952.025	37.36	0.48	37.84	54.00	-16.16	AVG			

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5.1.1 Radiated emissions outside of the band**RESULT:****Pass**

Date of testing	:	2015-12-24
Test standard	:	FCC Part 15.209(a) FCC Part 15.249(d) RSS-210 Clause A2.9(b)
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.009 – 26500MHz*
Limits	:	FCC Part 15.209(a) FCC Part 15.249(d)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test Setup

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

For details refer to following test plot.

Test Plot of Radiated emissions outside band

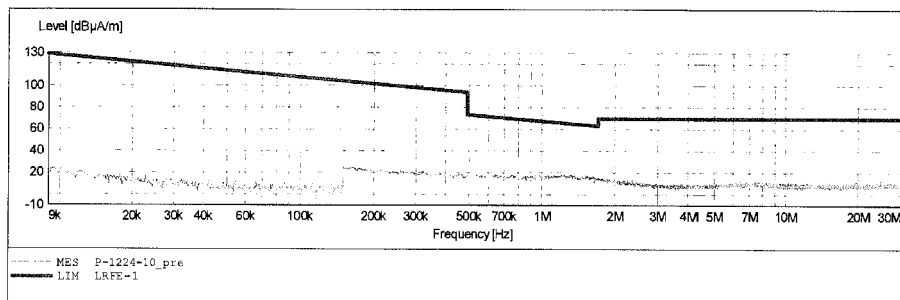
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2015-12-24 /

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



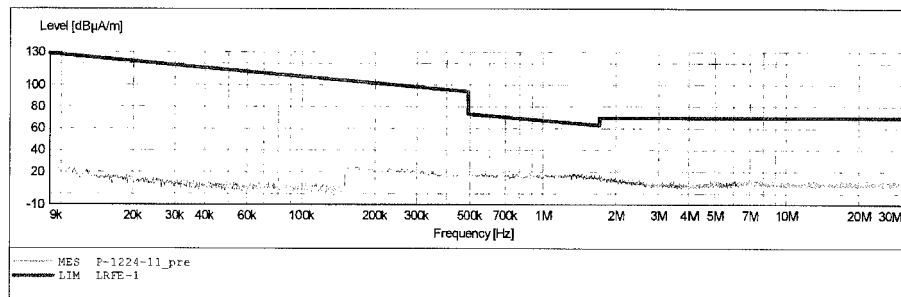
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2015-12-24 /

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



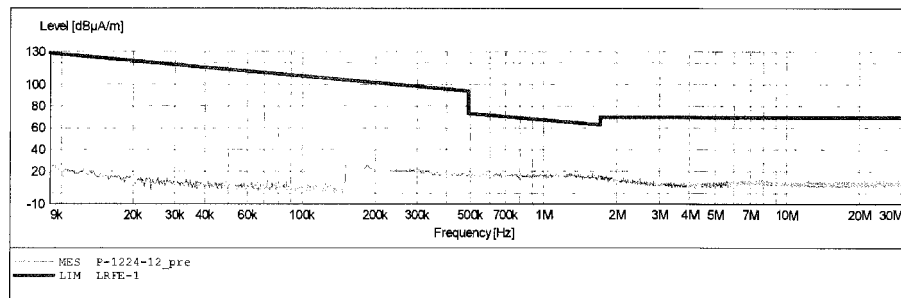
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2015-12-24 /

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



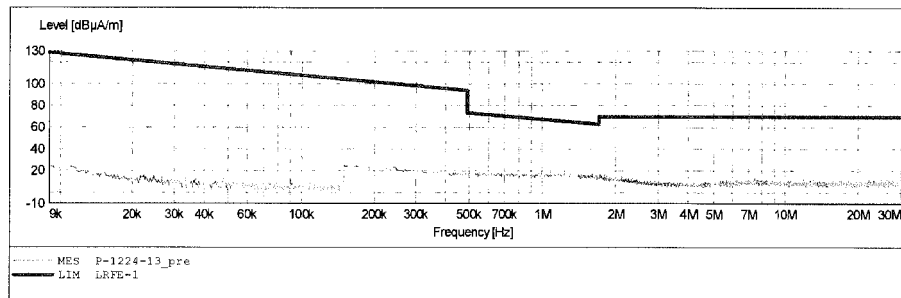
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2015-12-24 /

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



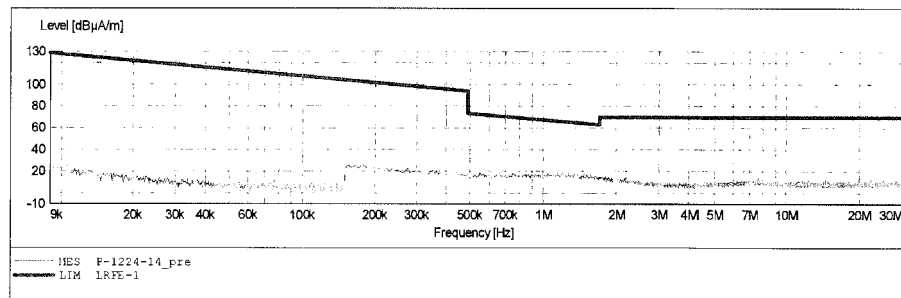
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2015-12-24 /

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

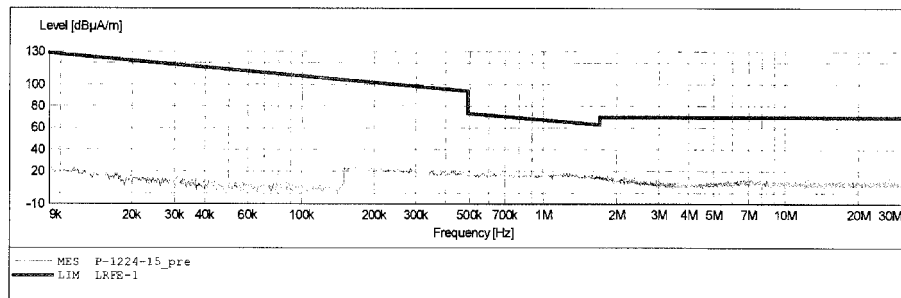


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2015-12-24 /

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



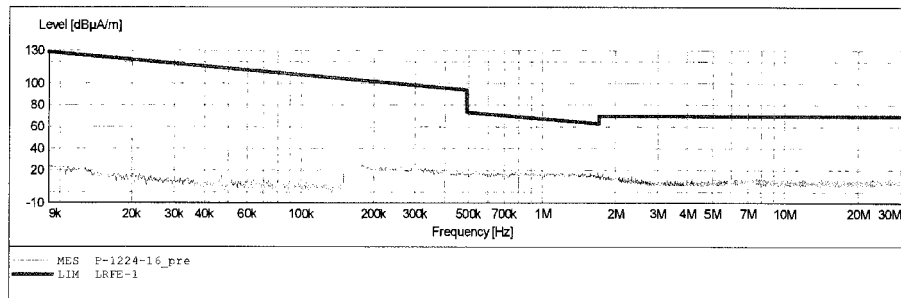
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2476MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2015-12-24 /

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



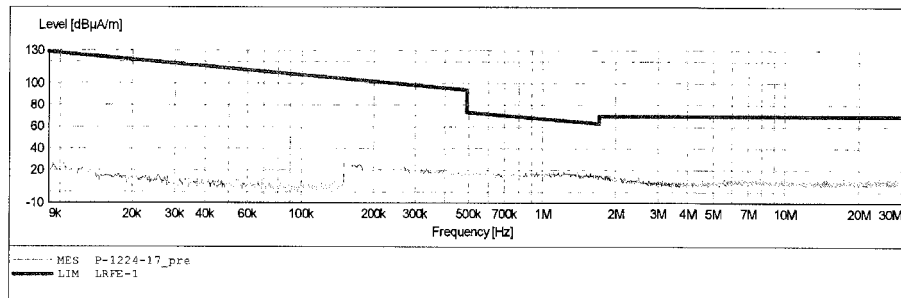
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2476MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2015-12-24 /

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



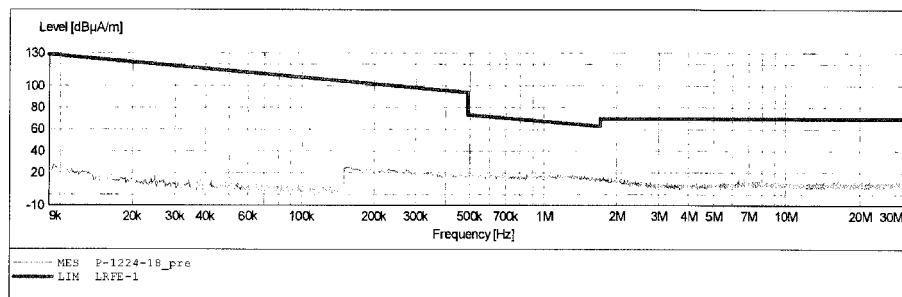
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Wireless Presenter M/N:TP-001
 Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD
 Operating Condition: TX 2476MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2015-12-24 /

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.: LGW2015 #2217

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

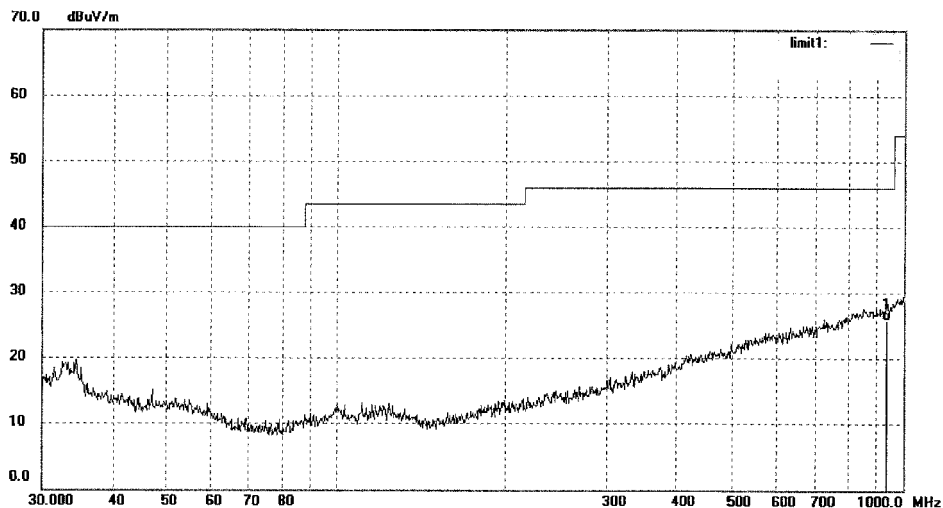
Date: 15/12/24/

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	935.5462	24.04	1.86	25.90	46.00	-20.10	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2015 #2216

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

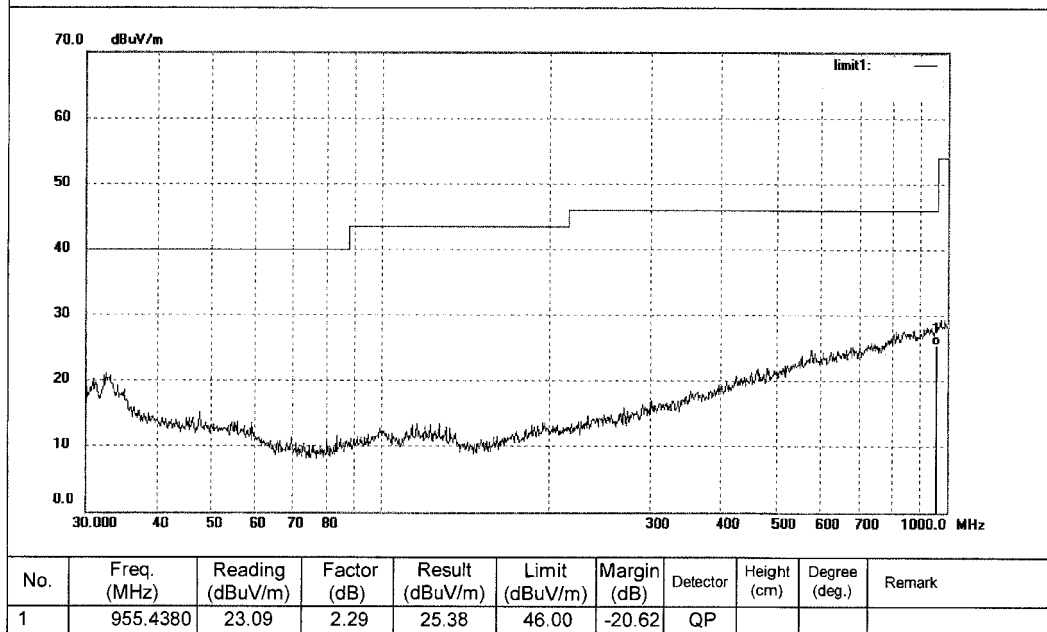
Date: 15/12/24/

Time:

Engineer Signature: PEI

Distance: 3m

Note:




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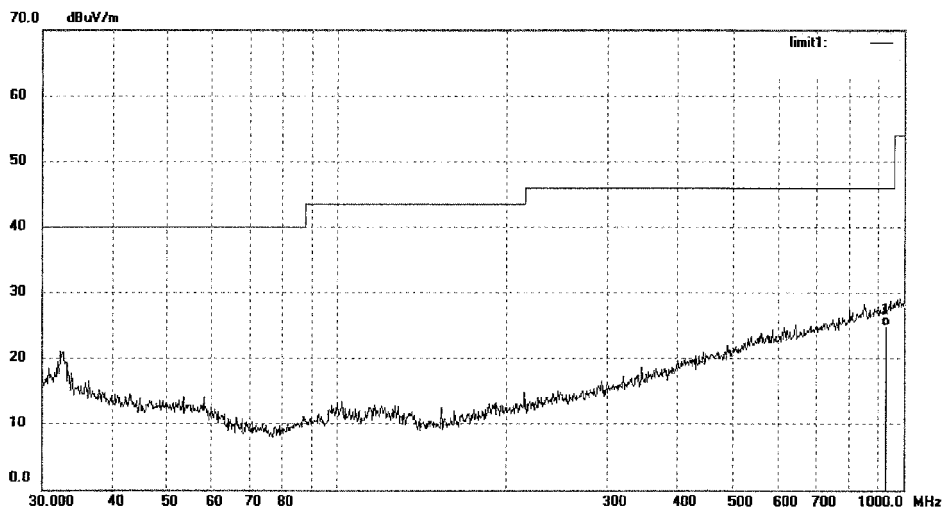
 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: LGW2015 #2218
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Wireless Presenter
 Mode: TX2441MHz
 Model: P-001

 Polarization: Horizontal
 Power Source: DC 3V
 Date: 15/12/24/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	929.0081	23.08	1.82	24.90	46.00	-21.10	QP			


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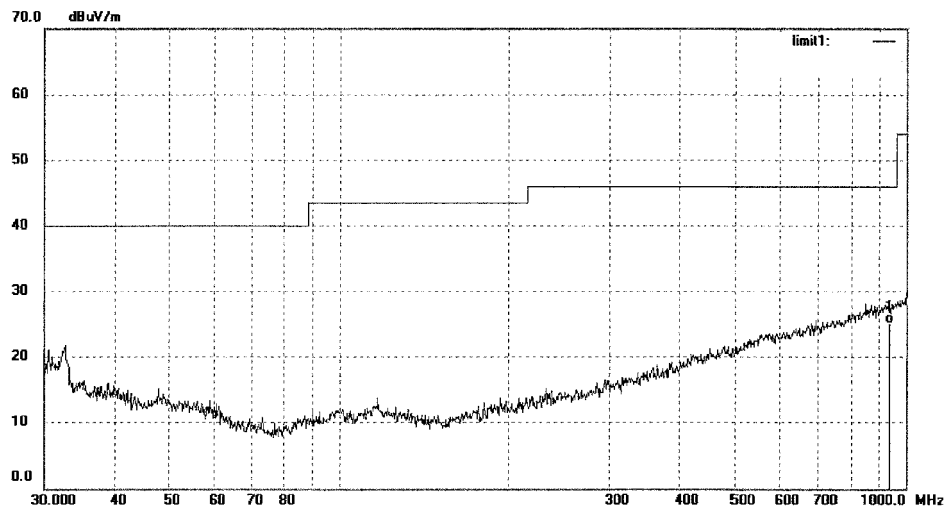
 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: LGW2015 #2219
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Wireless Presenter
 Mode: TX2441MHz
 Model: P-001

 Polarization: Vertical
 Power Source: DC 3V
 Date: 15/12/24/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	932.2714	23.20	1.85	25.05	46.00	-20.95	QP			


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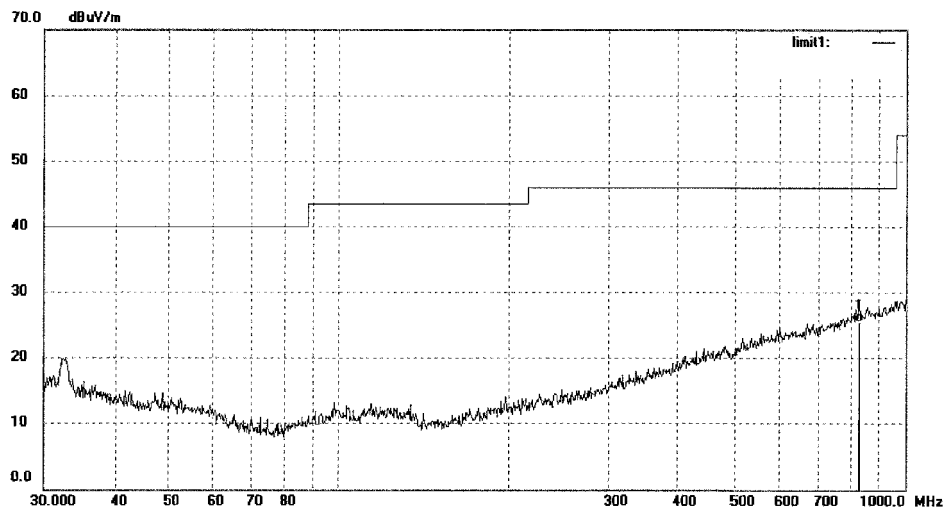
 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: LGW2015 #2221
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Wireless Presenter
 Mode: TX2476MHz
 Model: P-001

 Polarization: Horizontal
 Power Source: DC 3V
 Date: 15/12/24/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	827.4933	24.90	0.48	25.38	46.00	-20.62	QP			


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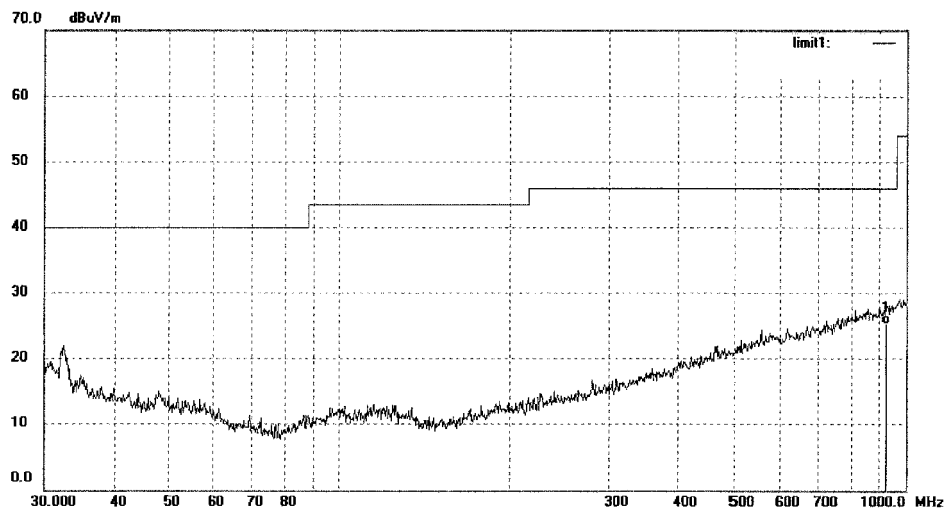
 Site: 2# Chamber
 Tel: +86-0755-26503290
 Fax: +86-0755-26503396

 Job No.: LGW2015 #2220
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Wireless Presenter
 Mode: TX2476MHz
 Model: P-001

 Polarization: Vertical
 Power Source: DC 3V
 Date: 15/12/24/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	922.5157	23.71	1.65	25.36	46.00	-20.64	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2015 #2235

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

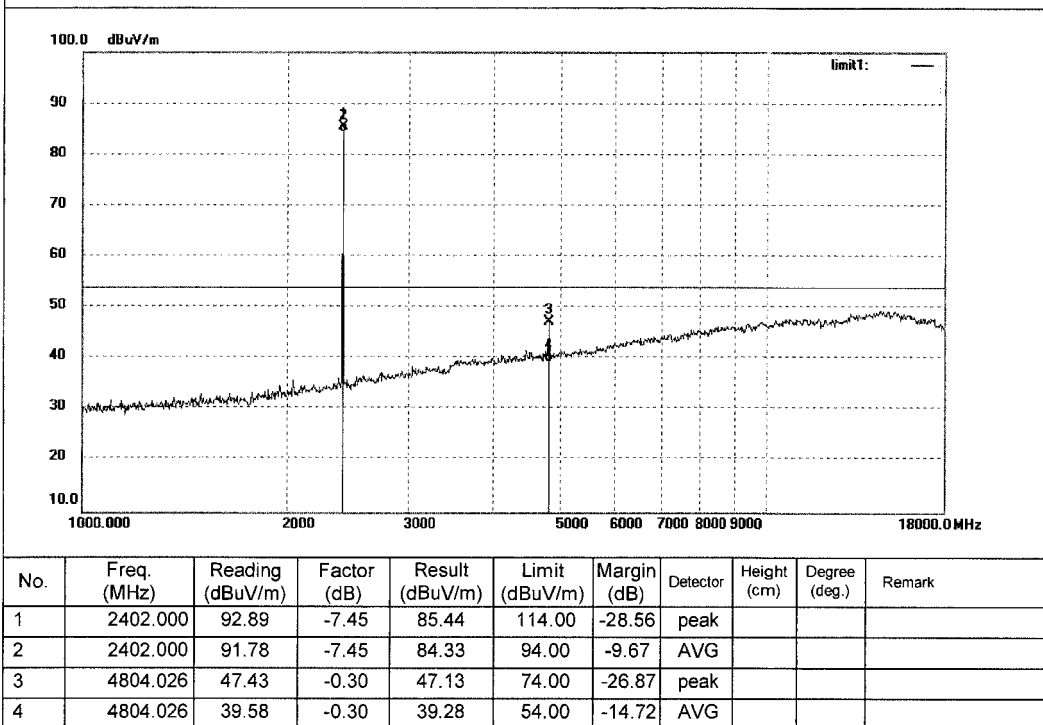
Date: 15/12/24/

Time:

Engineer Signature: PEI

Distance: 3m

Note:




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.: LGW2015 #2234

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

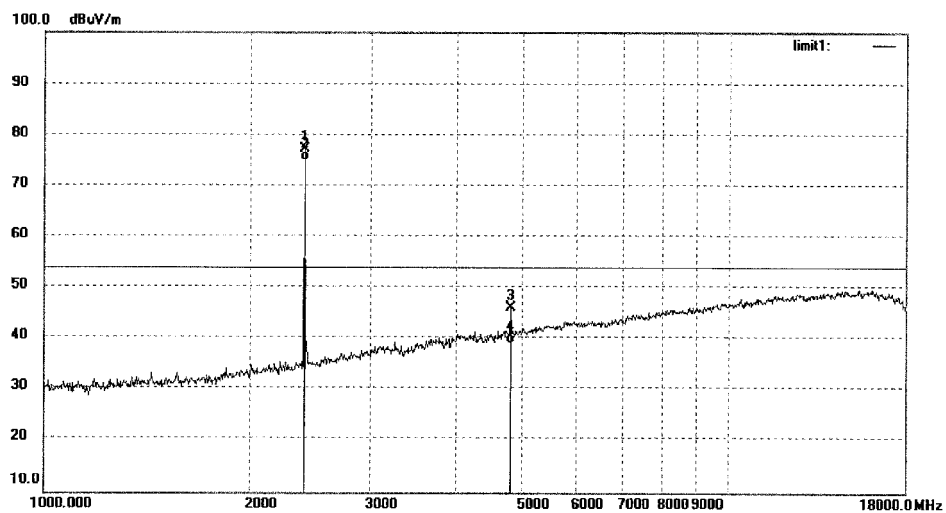
Date: 15/12/24/

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	2402.000	84.58	-7.45	77.13	114.00	-36.87	peak			
2	2402.000	82.46	-7.45	75.01	94.00	-18.99	AVG			
3	4804.030	46.31	-0.30	46.01	74.00	-27.99	peak			
4	4804.030	39.45	-0.30	39.15	54.00	-14.85	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2015 #2236

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2441MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

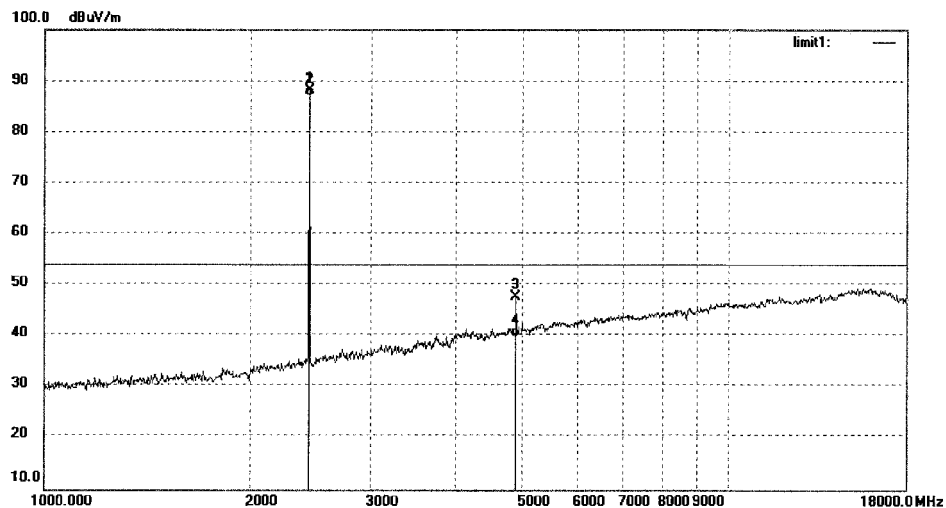
Date: 15/12/24/

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	2441.000	95.60	-7.35	88.25	114.00	-25.75	peak			
2	2441.000	94.40	-7.35	87.05	94.00	-6.95	AVG			
3	4882.019	47.59	0.14	47.73	74.00	-26.27	peak			
4	4882.019	39.60	0.14	39.74	54.00	-14.26	AVG			


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Tel:+86-0755-26503290

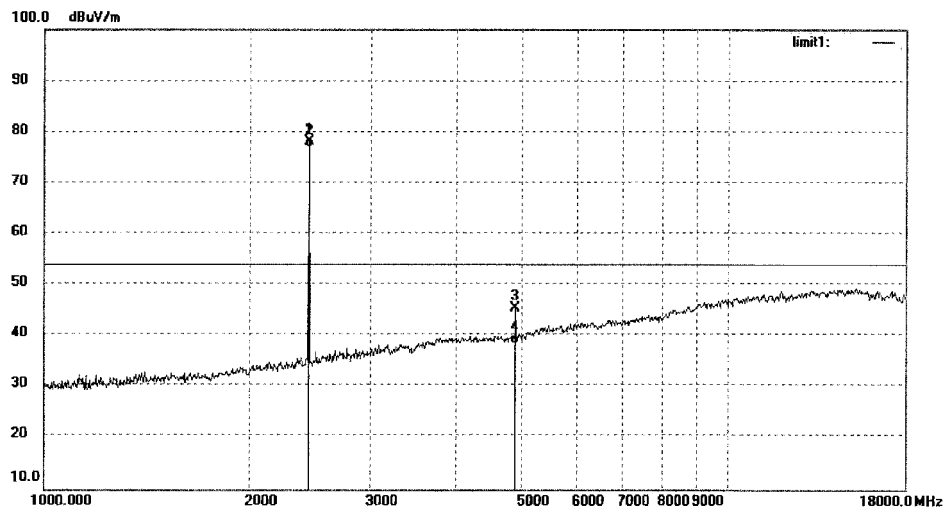
Fax:+86-0755-26503396

Job No.: LGW2015 #2237
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wireless Presenter
Mode: TX2441MHz
Model: P-001

Polarization: Vertical
Power Source: DC 3V
Date: 15/12/24/
Time:
Engineer Signature: PEI
Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

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	85.52	-7.35	78.17	114.00	-35.83	peak			
2	2441.000	84.35	-7.35	77.00	94.00	-17.00	AVG			
3	4884.019	45.25	0.15	45.40	74.00	-28.60	peak			
4	4884.019	38.38	0.15	38.53	54.00	-15.47	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2015 #2239

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

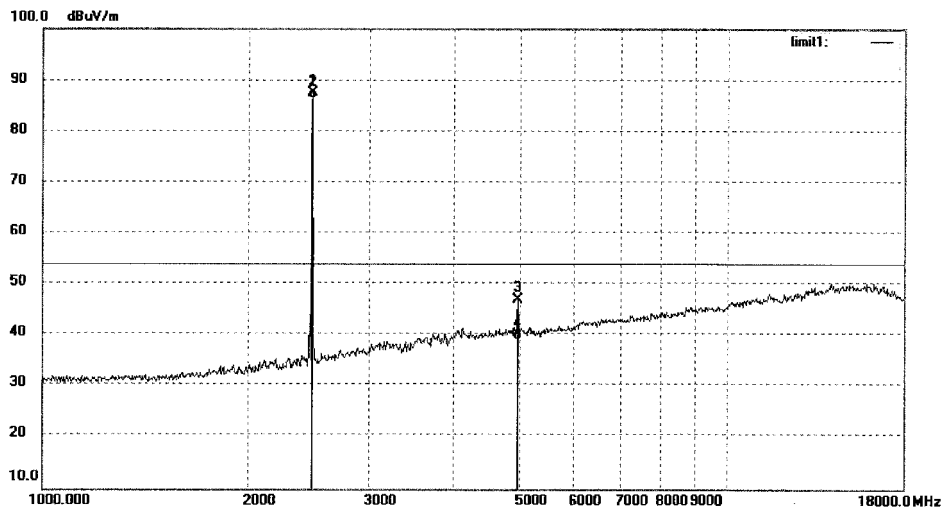
Date: 15/12/24/

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	2476.000	94.90	-7.36	87.54	114.00	-26.46	peak			
2	2476.000	93.81	-7.36	86.45	94.00	-7.55	AVG			
3	4952.023	46.57	0.48	47.05	74.00	-26.95	peak			
4	4952.023	38.68	0.48	39.16	54.00	-14.84	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2015 #2238

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

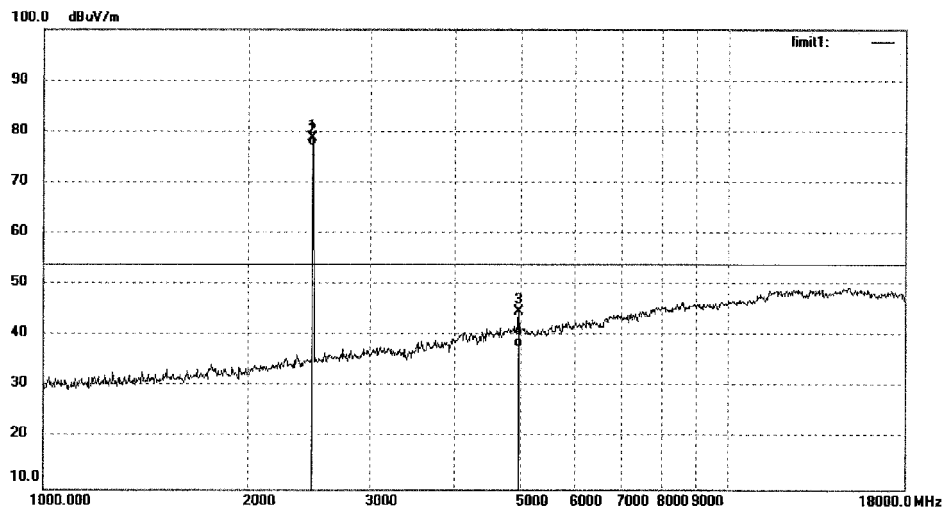
Date: 15/12/24/

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	2476.000	86.09	-7.36	78.73	114.00	-35.27	peak			
2	2476.000	84.56	-7.36	77.20	94.00	-16.80	AVG			
3	4952.025	44.22	0.48	44.70	74.00	-29.30	peak			
4	4952.025	37.36	0.48	37.84	54.00	-16.16	AVG			

Prüfbericht - Nr.: 17056400 001
Test Report No.
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Page 47 of 60

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.: LGW2015 #2240

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 15/12/24/

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

Time:

EUT: Wireless Presenter

Engineer Signature: PEI

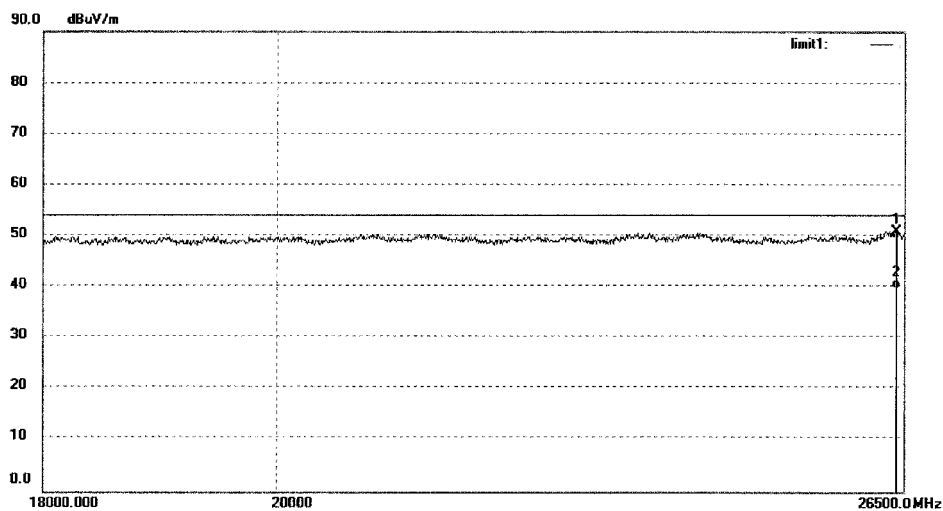
Mode: TX2402MHz

Distance: 3m

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26407.915	34.50	16.50	51.00	74.00	-23.00	peak			
2	26407.915	23.20	16.50	39.70	54.00	-14.30	AVG			


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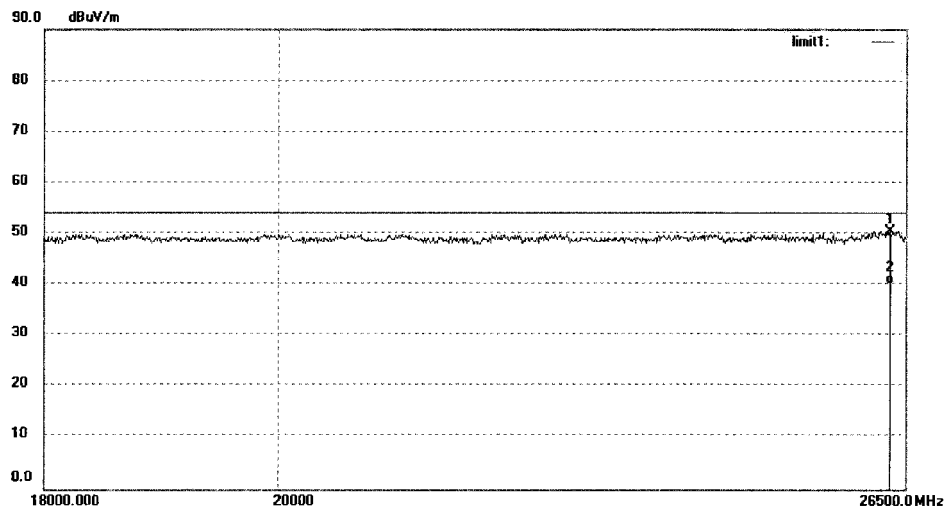
Fax:+86-0755-26503396

Job No.: LGW2015 #2241
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wireless Presenter
Mode: TX2402MHz
Model: P-001

Polarization: Vertical
Power Source: DC 3V
Date: 15/12/24/
Time:
Engineer Signature: PEI
Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26316.150	33.56	17.02	50.58	74.00	-23.42	peak			
2	26316.150	23.08	17.02	40.10	54.00	-13.90	AVG			


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Job No.: LGW2015 #2243

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2441MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

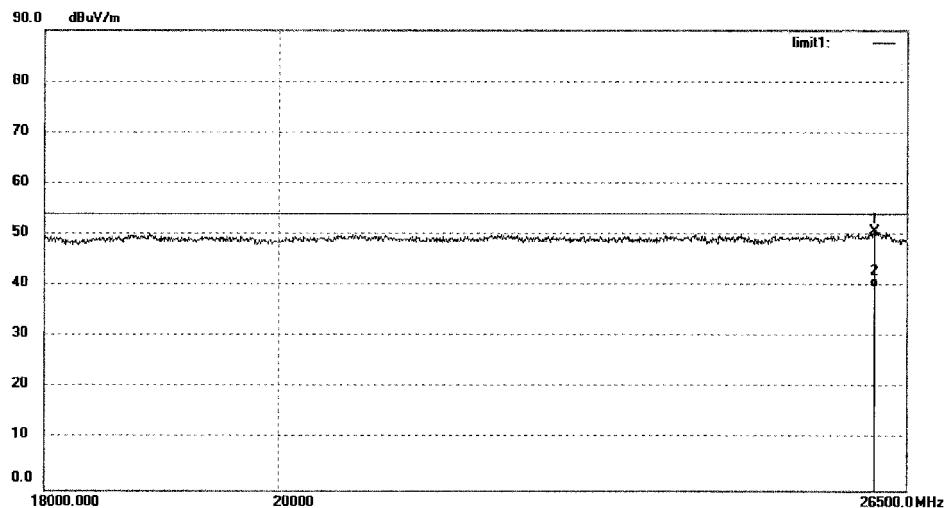
Date: 15/12/24/

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	26123.470	34.21	16.50	50.71	74.00	-23.29	peak			
2	26123.470	23.18	16.50	39.68	54.00	-14.32	AVG			


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Job No.: LGW2015 #2242

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2441MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

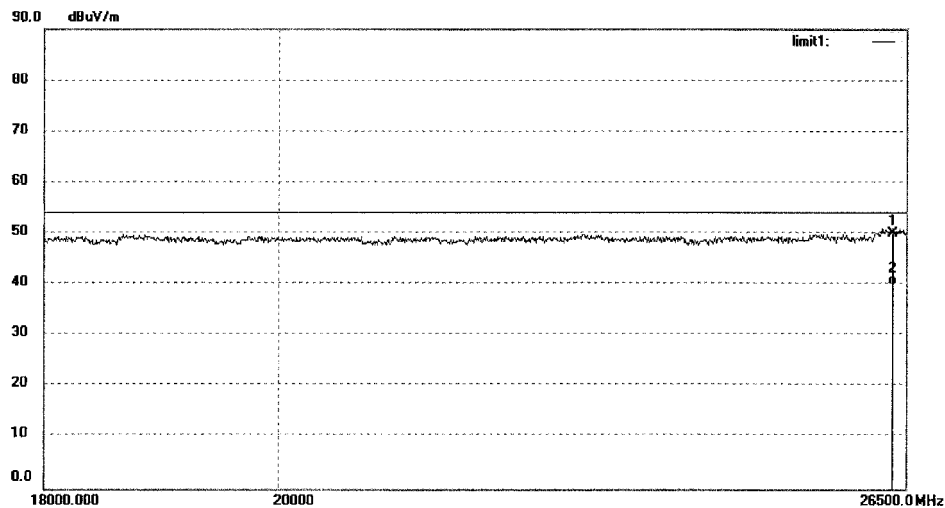
Date: 15/12/24/

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	26346.703	32.97	17.00	49.97	74.00	-24.03	peak			
2	26346.703	22.83	17.00	39.83	54.00	-14.17	AVG			


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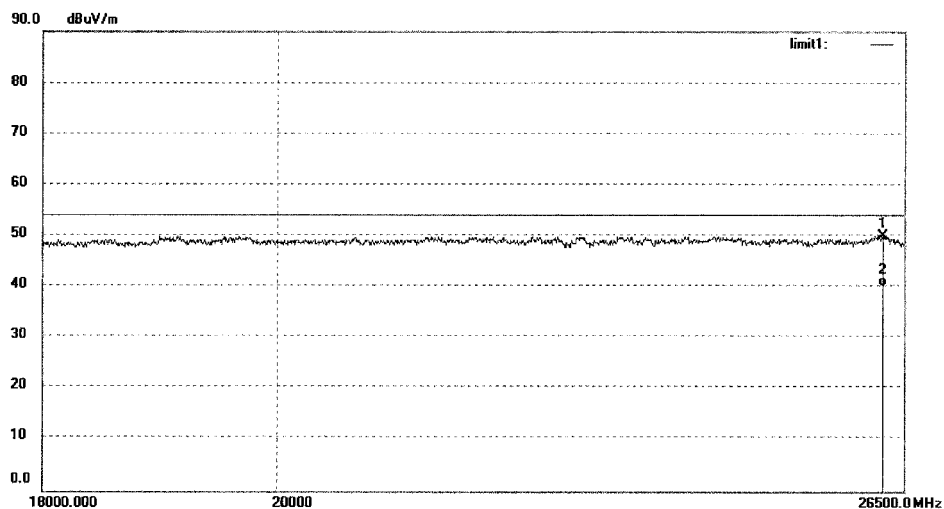
Fax:+86-0755-26503396

Job No.: LGW2015 #2244
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wireless Presenter
Mode: TX2476MHz
Model: P-001

Polarization: Horizontal
Power Source: DC 3V
Date: 15/12/24/
Time:
Engineer Signature: PEI
Distance: 3m

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26244.998	33.49	16.50	49.99	74.00	-24.01	peak			
2	26244.998	23.58	16.50	40.08	54.00	-13.92	AVG			

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Test Report No.
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Job No.: LGW2015 #2245

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

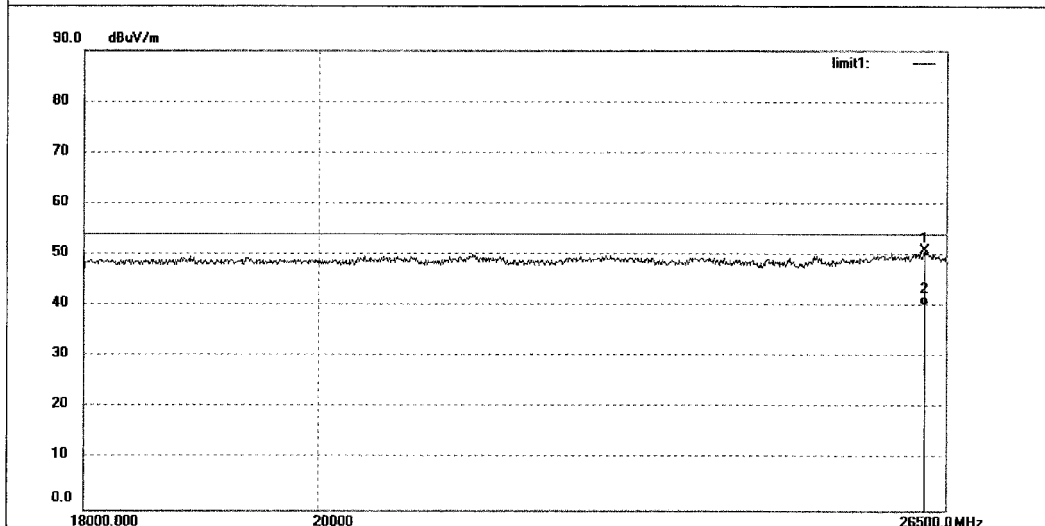
Date: 15/12/24/

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	26244.998	33.86	17.07	50.93	74.00	-23.07	peak			
2	26244.998	23.17	17.07	40.24	54.00	-13.76	AVG			

Test Plot of Frequency Band Edge


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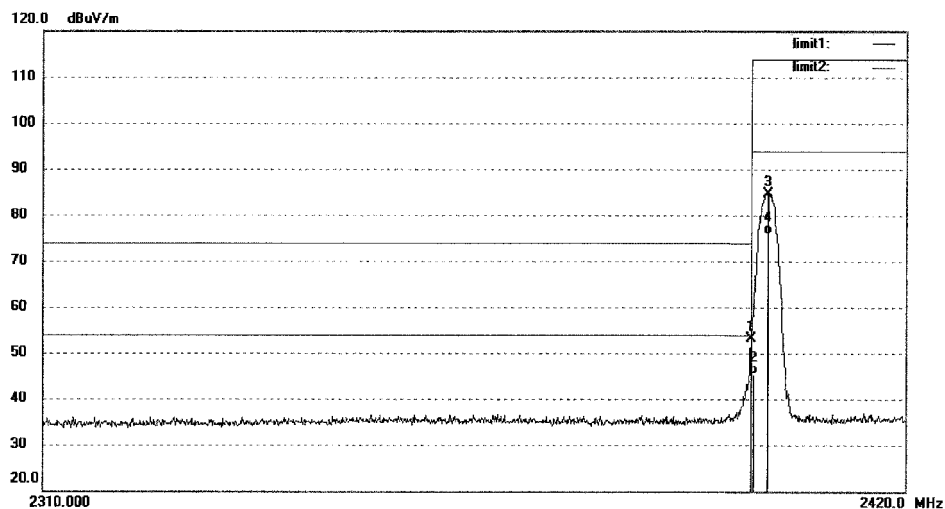
Tel:+86-0755-26503290

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Job No.: LGW2015 #2255
Standard: FCC (Band Edge 2.4GHz)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Wireless Presenter
Mode: TX 2402MHz
Model: P-001
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal
Power Source: DC 3V
Date: 15/12/24/
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	2400.000	60.62	-7.46	53.16	74.00	-20.84	peak			
2	2400.000	52.76	-7.46	45.30	54.00	-8.70	AVG			
3	2402.000	92.18	-7.45	84.73	114.00	-29.27	peak			
4	2402.000	83.34	-7.45	75.89	94.00	-18.11	AVG			


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Job No.: LGW2015 #2254

Standard: FCC (Band Edge 2.4GHz)

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX 2402MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

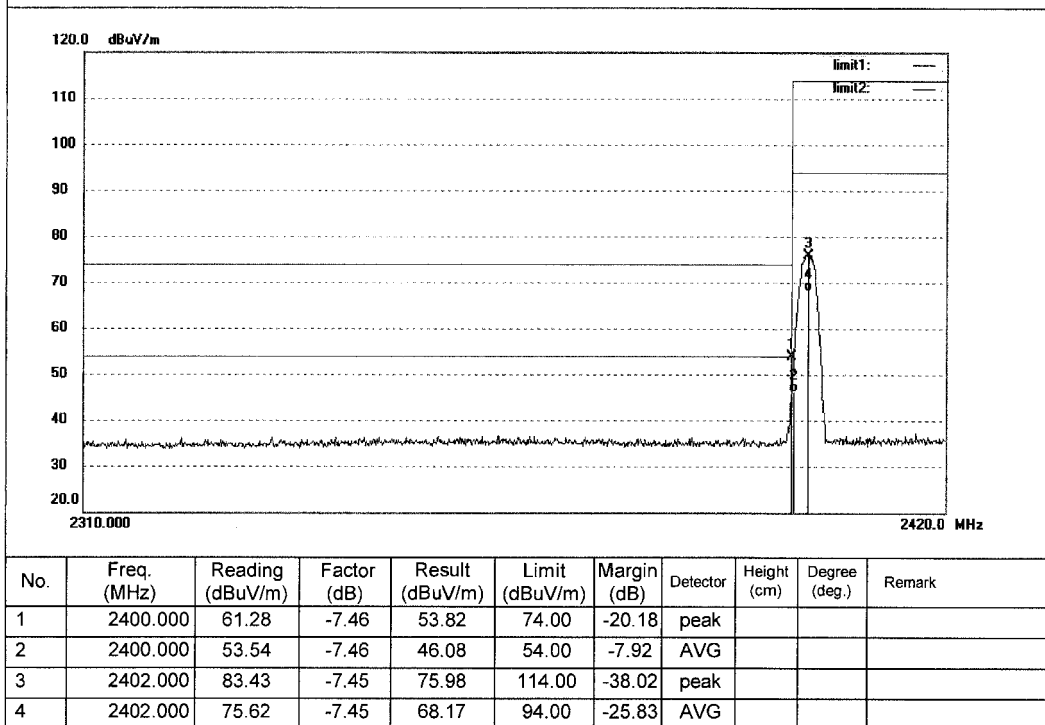
Date: 15/12/24/

Time:

Engineer Signature: PEI

Distance: 3m

Note:




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Job No.: LGW2015 #2252

Standard: FCC (Band Edge 2.4GHz)

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX 2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal

Power Source: DC 3V

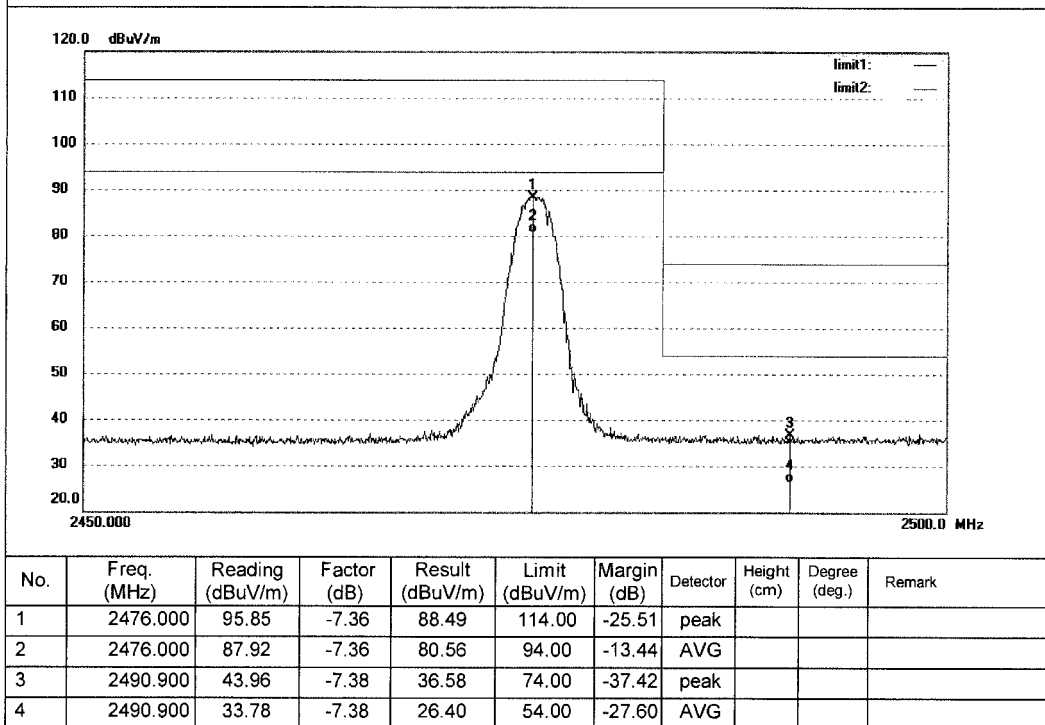
Date: 15/12/24/

Time:

Engineer Signature: PEI

Distance: 3m

Note:




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Job No.: LGW2015 #2253

Standard: FCC (Band Edge 2.4GHz)

Test item: Radiation Test

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

EUT: Wireless Presenter

Mode: TX 2476MHz

Model: P-001

Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical

Power Source: DC 3V

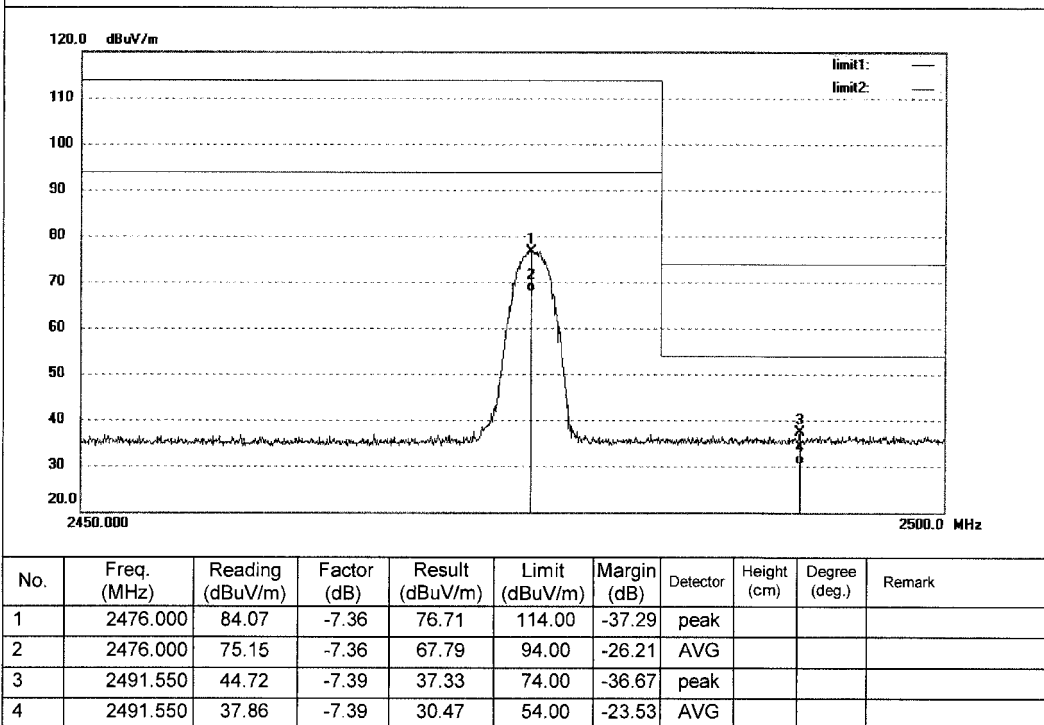
Date: 15/12/24/

Time:

Engineer Signature: PEI

Distance: 3m

Note:



6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

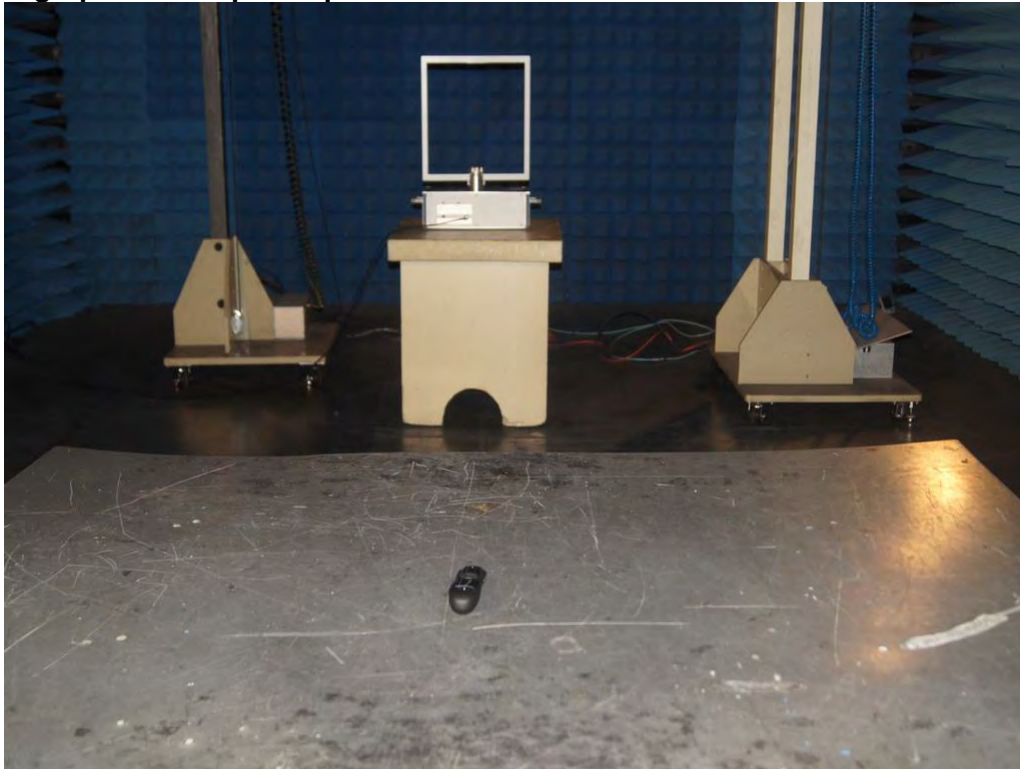
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06

The maximum radiated power of the transmitter is 0.19mW (-7.19dBm) only, which less than 4mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

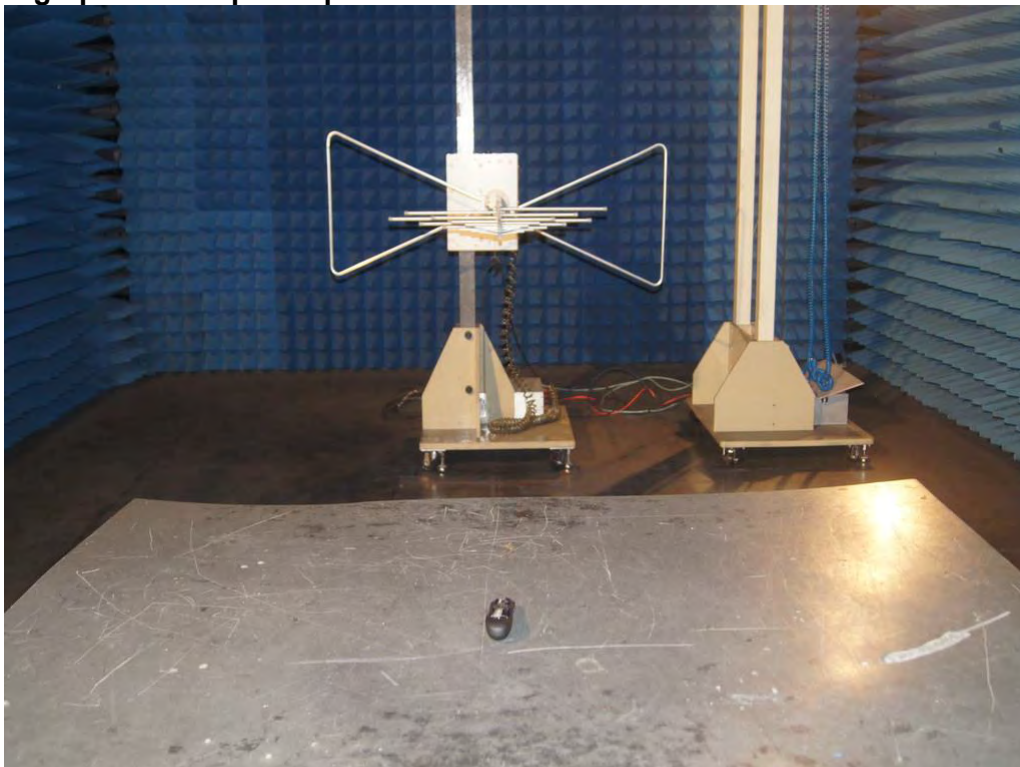
Since maximum radiated power of the transmitter is $0.19\text{mW} < 10\text{mW}$, and the distance from EUT to human is 5mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.

7. Photographs of the Test Set-Up

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



Photograph 2: Set-up for Spurious Emissions of 30MHz – 1GHz



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



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



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