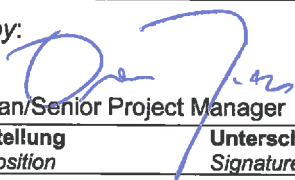



Prüfbericht-Nr.: <i>Test Report No.:</i>	17058547 001	Auftrags-Nr.: <i>Order No.:</i>	16-4045165	Seite 1 von 61 Page 1 of 61	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	28.02.2016		
Auftraggeber: <i>Client:</i>	Testo AG, Testostrasse 1, 79853 Lenzkirch, Germany				
Prüfgegenstand: <i>Test item:</i>	Clamp Meter				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	testo 770-3 (Testo)				
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 B Section 15.109 RSS-247 Issue 1 May 2015 ICES-003 Issue 6 January 2016	CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 D01 v06 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015			
Wareneingangsdatum: <i>Date of receipt:</i>	28.02.2016				
Prüfmuster-Nr.: <i>Test sample No.:</i>	1600238, 1600239, 1600240				
Prüfzeitraum: <i>Testing period:</i>	27.02.2016 - 01.03.2016				
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:		
07.06.2016	Owen Tian/Senior Project Manager		07.06.2016	Winnie Hou/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 P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
<p>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></p>					

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH***RESULT: Pass***5.1.5 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.6 SPURIOUS EMISSION***RESULT: Pass***5.1.7 RADIATED EMISSION***RESULT: Pass***1.1.1 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	2017-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2017-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2017-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2017-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2017-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	620050647 4	2017-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2017-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2017-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2017-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2017-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2017-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2017-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2017-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2017-01-09

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	< ± 0.60 dB
Radiated emission of transmitter, valid up to 26.5 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 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 clamp meter with Bluetooth function, and 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 Bluetooth (Low Energy mode)

Technical Specification	Value
Kind of Equipment	Clamp Meter
Type Designation	770-3
Radio Type	Bluetooth
Bluetooth version	4.0, Low Energy Single Mode
Operating Frequency band	2400 – 2483.5MHz
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	0~50°C
Operation Voltage	DC 4.5V (via 3 x 'AAA' size battery)
Modulation	GFSK
Antenna Gain	1dBi

Table 4: RF channel and frequency of Bluetooth (Low Energy mode)

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

10	2422.00	21	2444.00	32	2466.00	
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3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth mode
 - 1. Transmitting
 - 2. Receiving
- B. Measure mode
- C. Standby
- D. 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: 2014 & 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

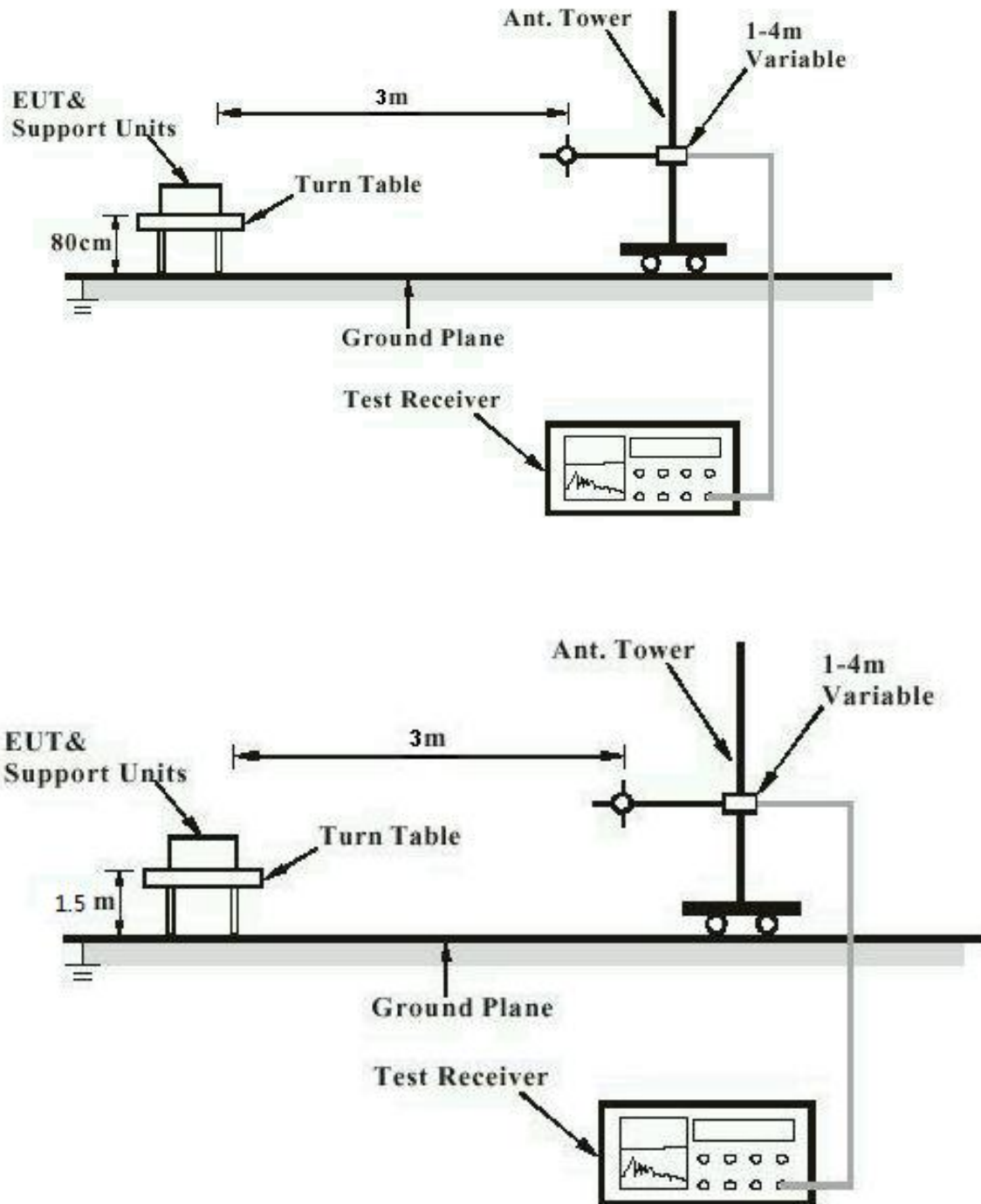
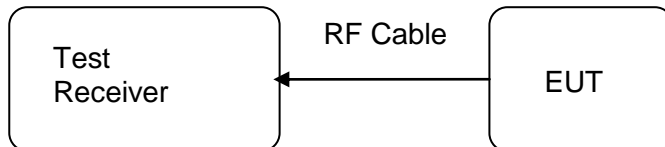


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard : Part 15.203
RSS-Gen Clause 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 1dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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5.1.2 Peak Output Power

RESULT:
Pass

Test date : 2016-02-27
 Test standard : FCC Part 15.247(b)(3)
 RSS-247 clause 5.4(4)
 Basic standard : ANSI C63.10: 2013
 Clause 9.1 of KDB 558074 v03r01
 Limit : 1W
 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 5: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	-1.10	30
Middle Channel	2440	-1.77	30
High Channel	2480	-2.50	30

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Test Report No.
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5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing : 2016-02-27
 Test standard : FCC Part 15.247(a)(2)
 : RSS-247 clause 5.2(1)
 : RSS-Gen clause 6.6
 Basic standard : ANSI C63.10: 2013
 : Clause 8 of KDB 558074 v03r01
 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 6: Test result of 6dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.7163	≥0.5	1.111
Mid Channel	2440	0.7120	≥0.5	1.090
High Channel	2480	0.7163	≥0.5	1.085

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*Test Report No.***Seite 15 von 61**
*Page 15 of 61***5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth****RESULT:****Pass**

Date of testing : 2016-02-27
Test standard : FCC part 15.247(d)
RSS-247 clause 5.5
Basic standard : ANSI C63.10: 2013
Limit : 20dB (below that in the 100kHz bandwidth within
the band that contains the highest level of the
desired power);
Kind of test site : Shield room

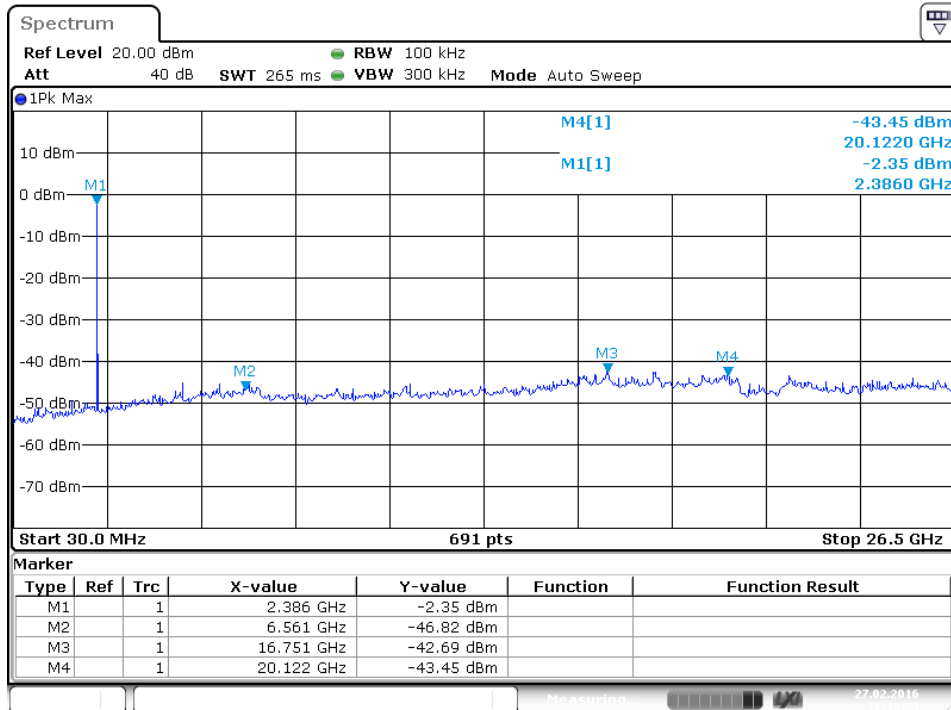
Test setup

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

For details refer to following test plot.

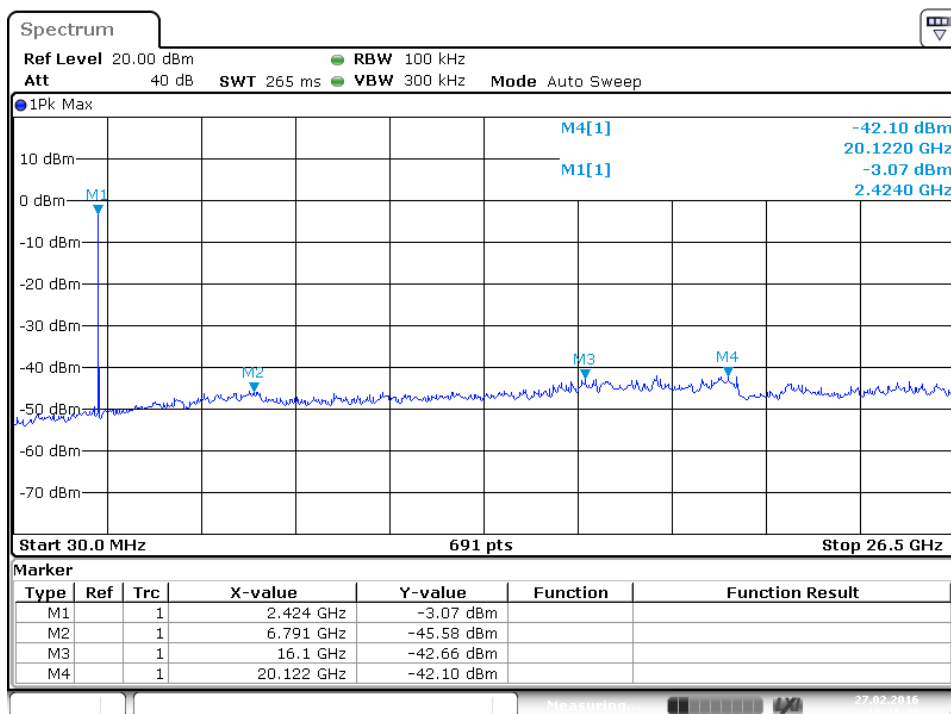
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth

Low Channel

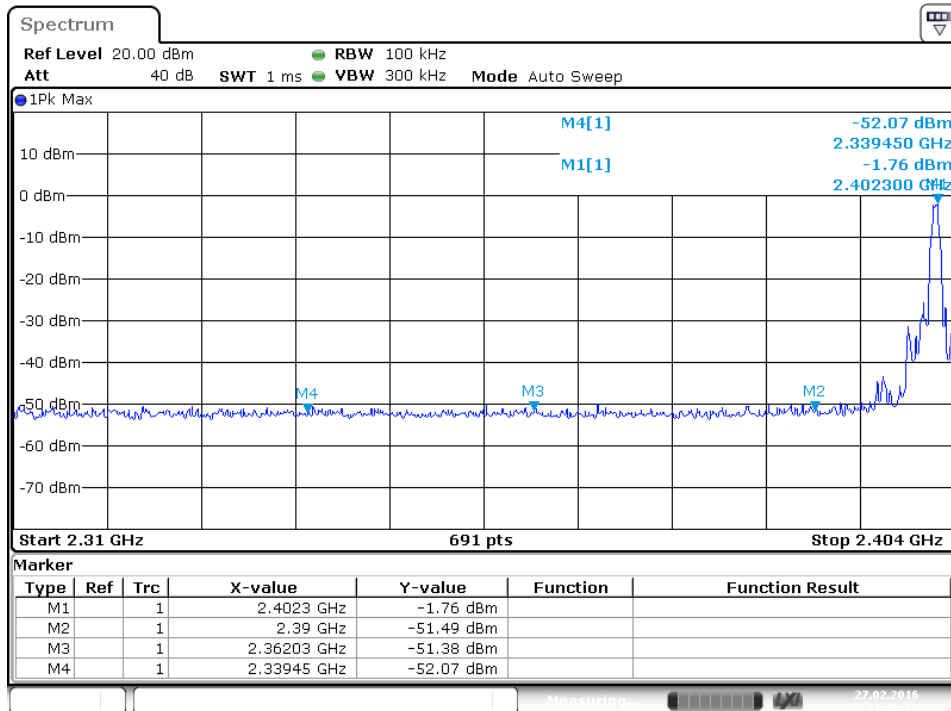


Date: 27.FEB.2016 11:41:00

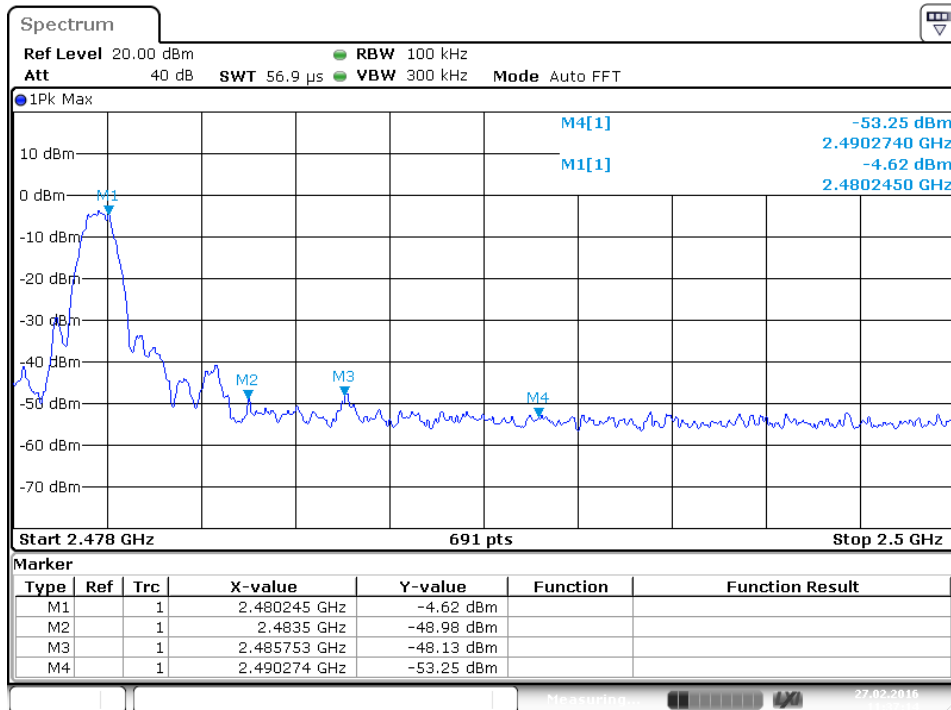
Middle Channel



Date: 27.FEB.2016 11:41:49

Band Edge


Date: 27.FEB.2016 11:39:12



Date: 27.FEB.2016 11:37:14

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5.1.6 Spurious Emission

RESULT:**Pass**

Date of testing : 2016-03-01
Test standard : FCC part 15.247(d)
RSS-Gen
Basic standard : ANSI C63.10: 2013
Clause 11 of KDB 558074 v03r01
Limits : FCC part 15.209(a)
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 Spurious Emission

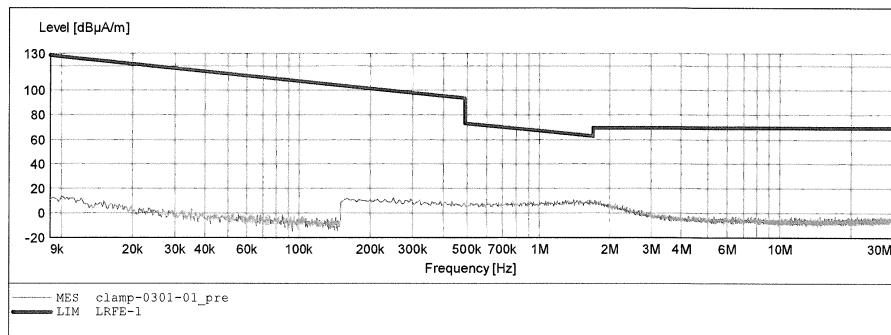
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2016-3-1 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD VTERM2 1.70			
Start Frequency	Stop Frequency	Step Width	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

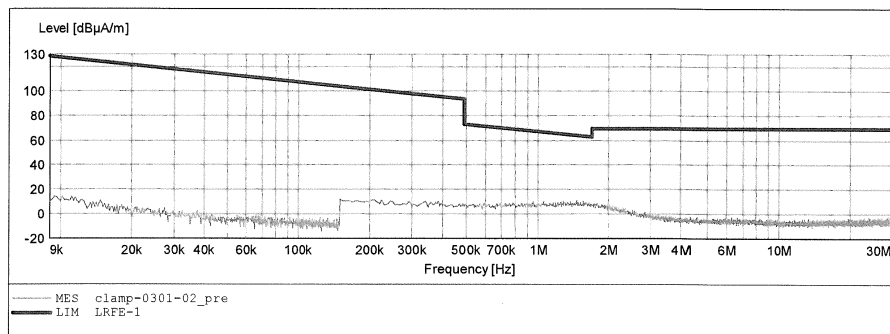


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2016-3-1 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD_VTERM2 1.70	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

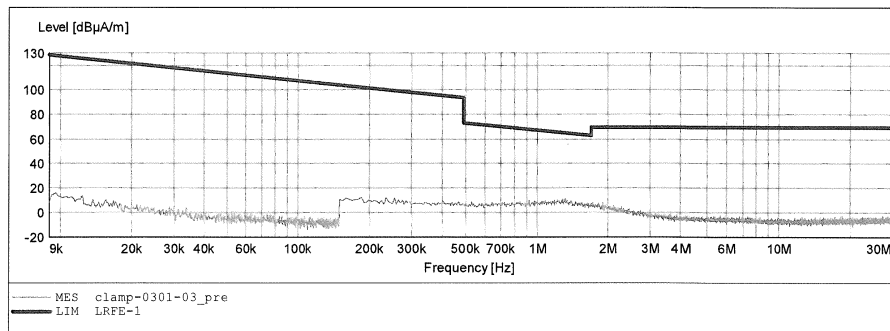


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Z
 Start of Test: 2016-3-1 /

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

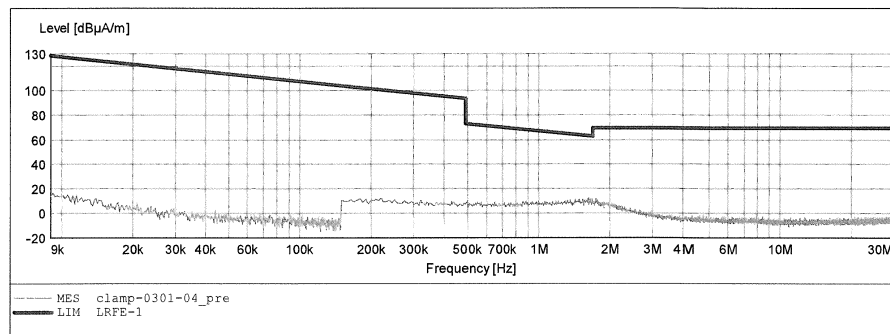


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2440MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2016-3-1 /

SCAN TABLE: "LFRE Fin"

Short Description:		_SUB_STD_VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	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

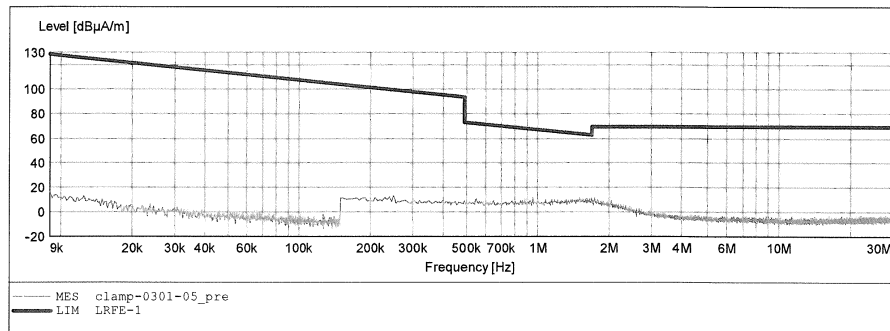


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2440MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2016-3-1 /

SCAN TABLE: "LFRE Fin"

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

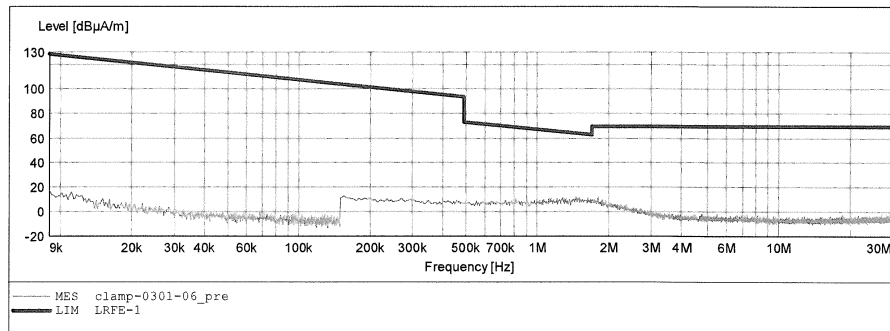


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2440MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Z
 Start of Test: 2016-3-1 /

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

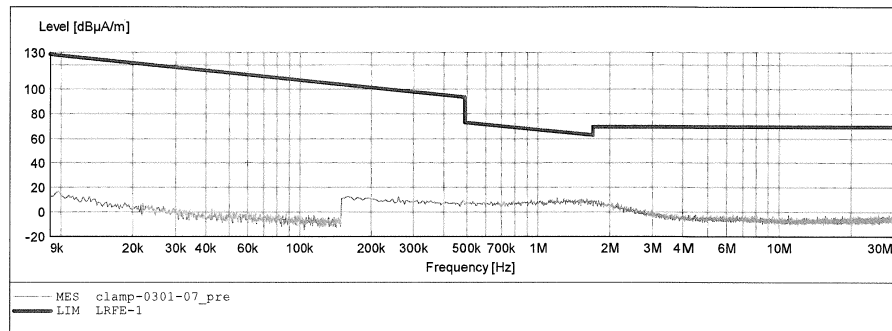


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2016-3-1 /

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

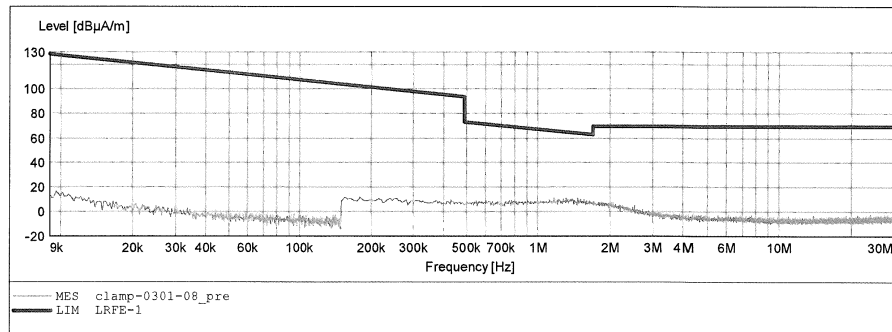


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2016-3-1 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Short Description: _SUB_STD_VTERM2 1.70						
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

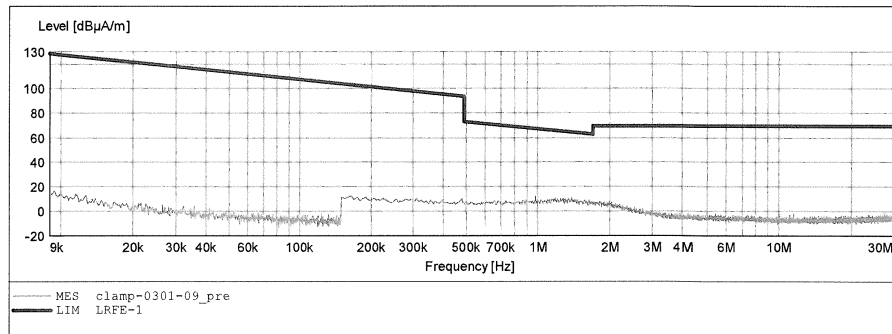


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Clamp Meter M/N:770-3
 Manufacturer: Testo AG
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Z
 Start of Test: 2016-3-1 /

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

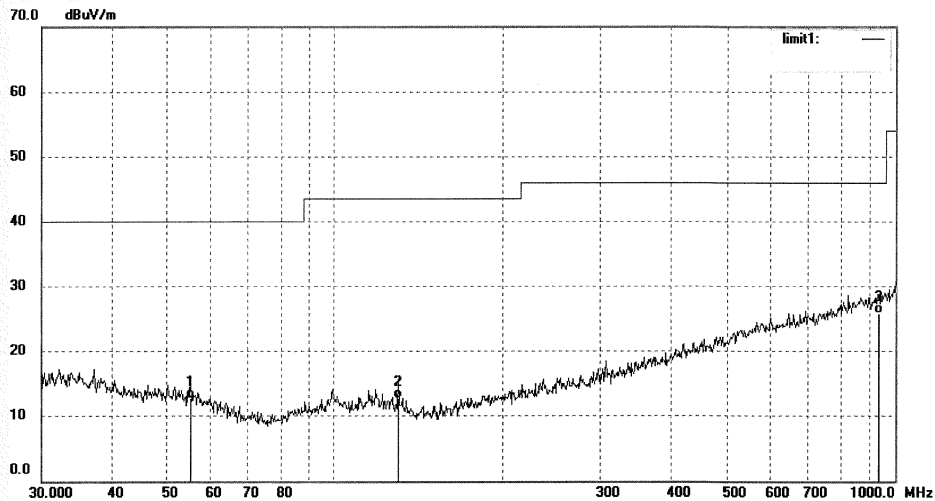



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 Site: 2# Chamber
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 Fax:+86-0755-26503396

Job No.: Igwade #902	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



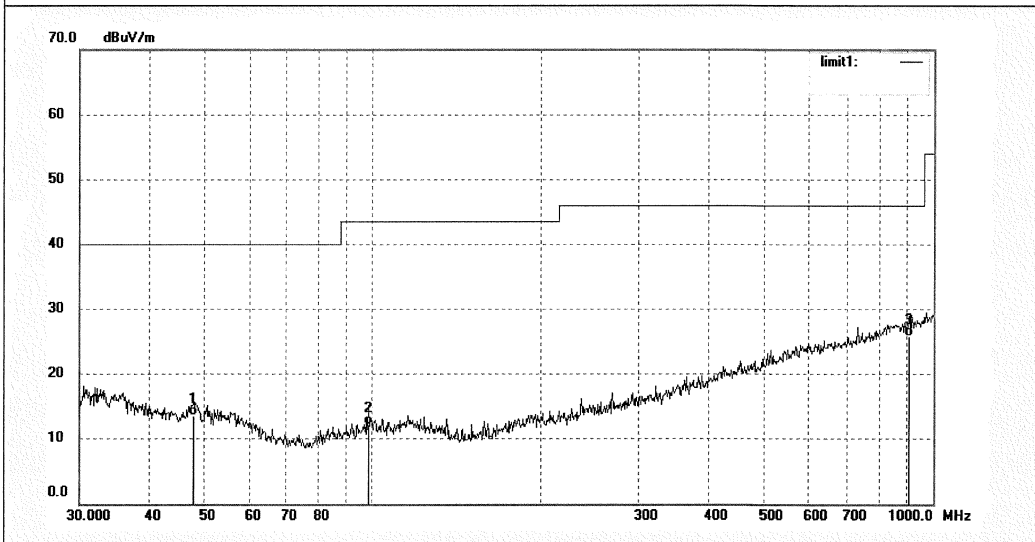
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.2207	25.00	-12.33	12.67	40.00	-27.33	QP			
2	130.3788	26.24	-13.54	12.70	43.50	-30.80	QP			
3	932.2714	23.95	1.85	25.80	46.00	-20.20	QP			


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

Job No.: Igwade #903	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



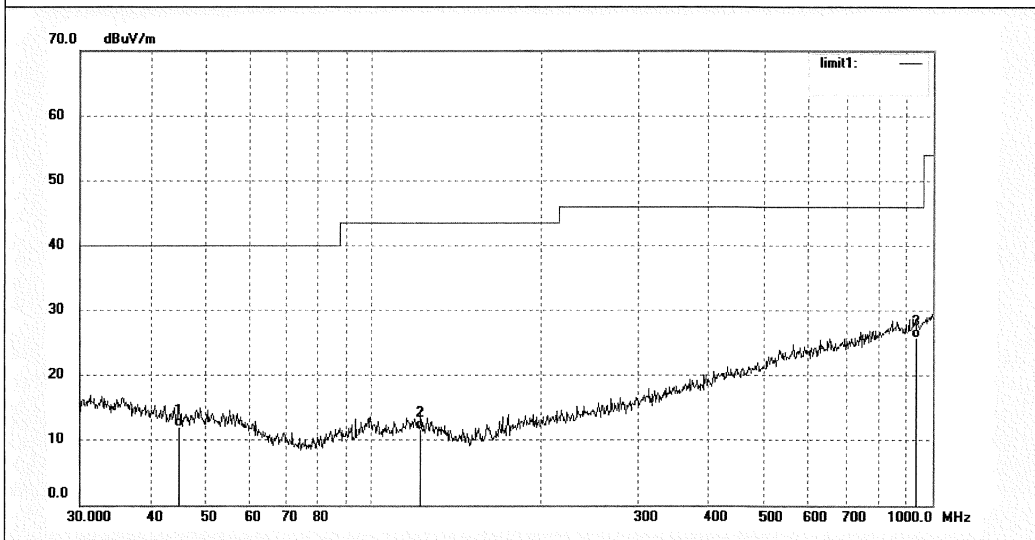
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	47.8260	25.46	-11.87	13.59	40.00	-26.41	QP			
2	98.4865	25.44	-13.22	12.22	43.50	-31.28	QP			
3	903.3093	24.58	1.30	25.88	46.00	-20.12	QP			


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Job No.: Igwade #905	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



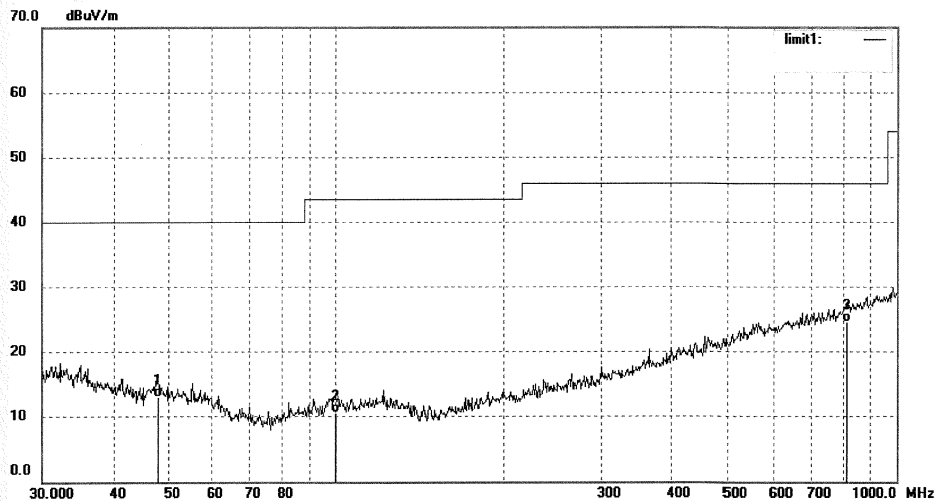
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	44.9004	23.89	-11.85	12.04	40.00	-27.96	QP			
2	122.4039	24.68	-13.08	11.60	43.50	-31.90	QP			
3	935.5462	24.00	1.86	25.86	46.00	-20.14	QP			


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

Job No.: Igwade #904	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	47.9939	24.84	-11.87	12.97	40.00	-27.03	QP			
2	100.2286	23.27	-12.76	10.51	43.50	-32.99	QP			
3	810.2653	24.35	0.19	24.54	46.00	-21.46	QP			


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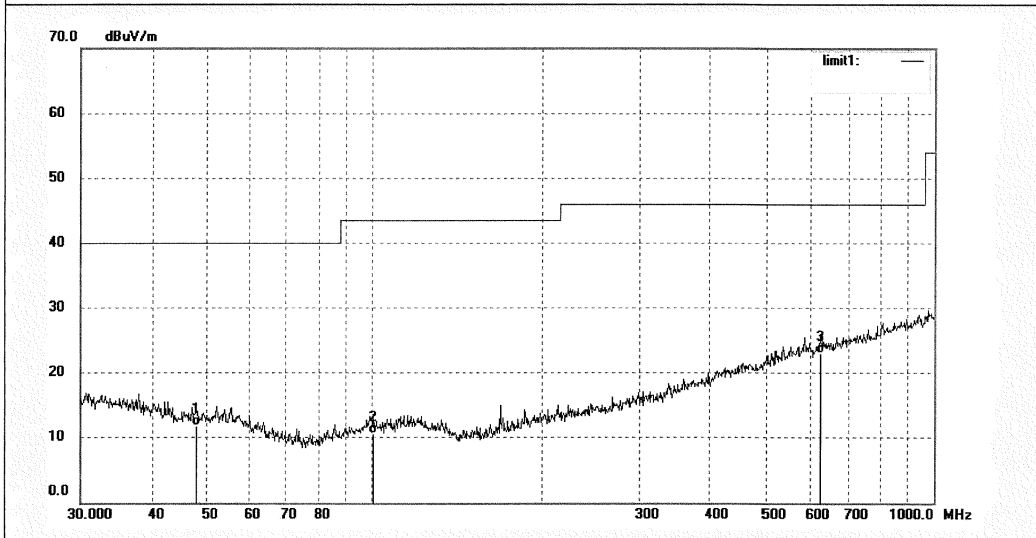
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #906	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



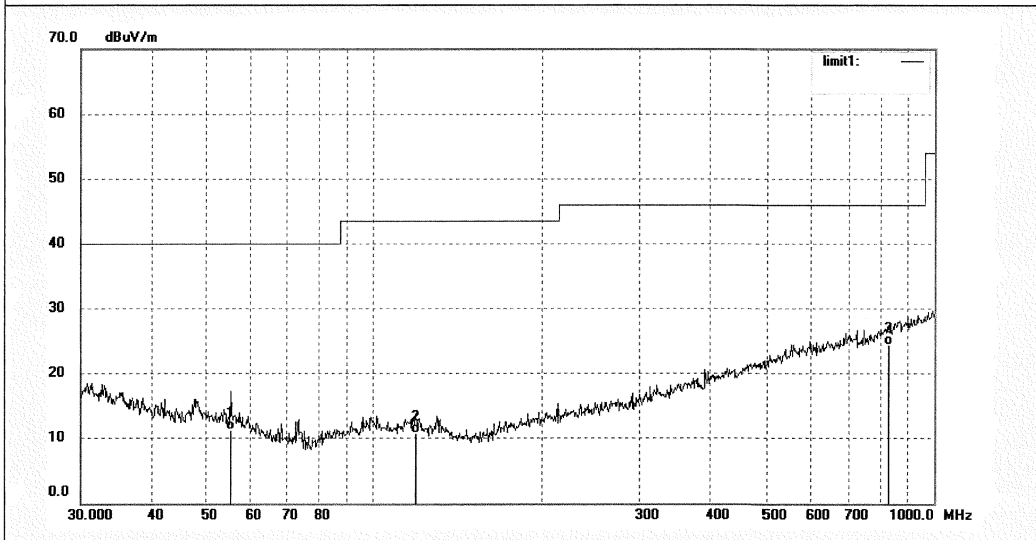
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	47.9939	23.75	-11.87	11.88	40.00	-28.12	QP			
2	100.5806	23.37	-12.81	10.56	43.50	-32.94	QP			
3	625.0779	25.65	-2.61	23.04	46.00	-22.96	QP			


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Job No.: Igwade #907	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



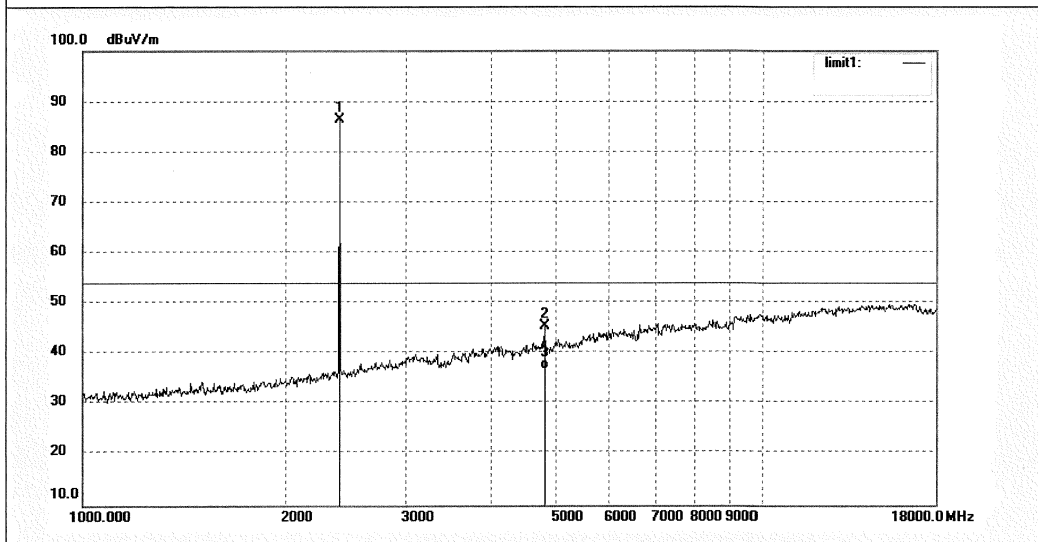
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.2207	23.54	-12.33	11.21	40.00	-28.79	QP			
2	119.4360	23.56	-12.79	10.77	43.50	-32.73	QP			
3	827.4933	23.95	0.48	24.43	46.00	-21.57	QP			


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Job No.: Igwade #862	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

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	93.77	-7.45	86.32	/	/	peak			
2	4804.024	45.83	-0.30	45.53	74.00	-28.47	peak			
3	4804.024	37.25	-0.30	36.95	54.00	-17.05	AVG			


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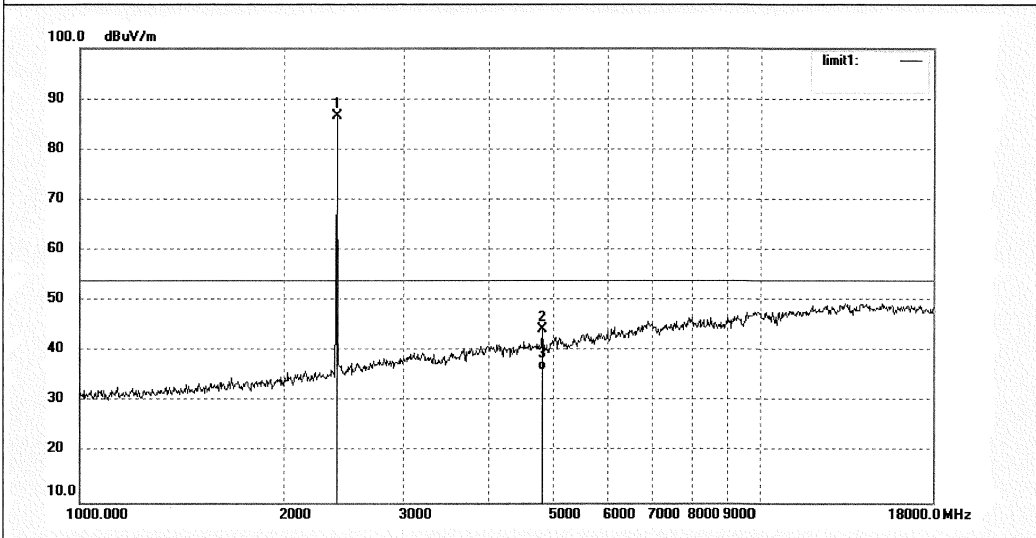
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #863	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



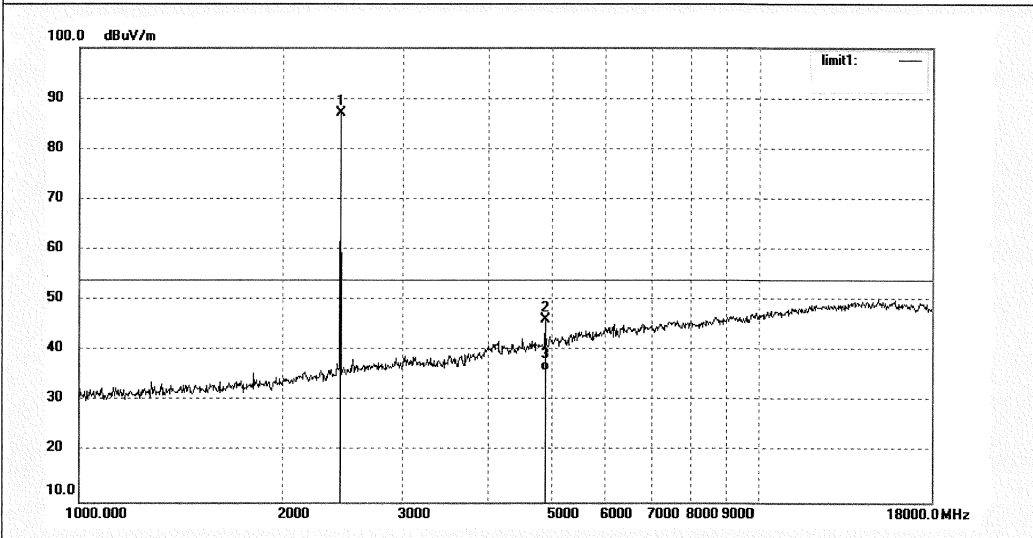
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.02	-7.45	86.57	/	/	peak			
2	4804.021	44.65	-0.30	44.35	74.00	-29.65	peak			
3	4804.021	36.57	-0.30	36.27	54.00	-17.73	AVG			


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 Site: 2# Chamber
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Job No.: Igwade #866	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	94.42	-7.36	87.06	/	/	peak			
2	4880.029	45.94	0.13	46.07	74.00	-27.93	peak			
3	4880.029	35.87	0.13	36.00	54.00	-18.00	AVG			


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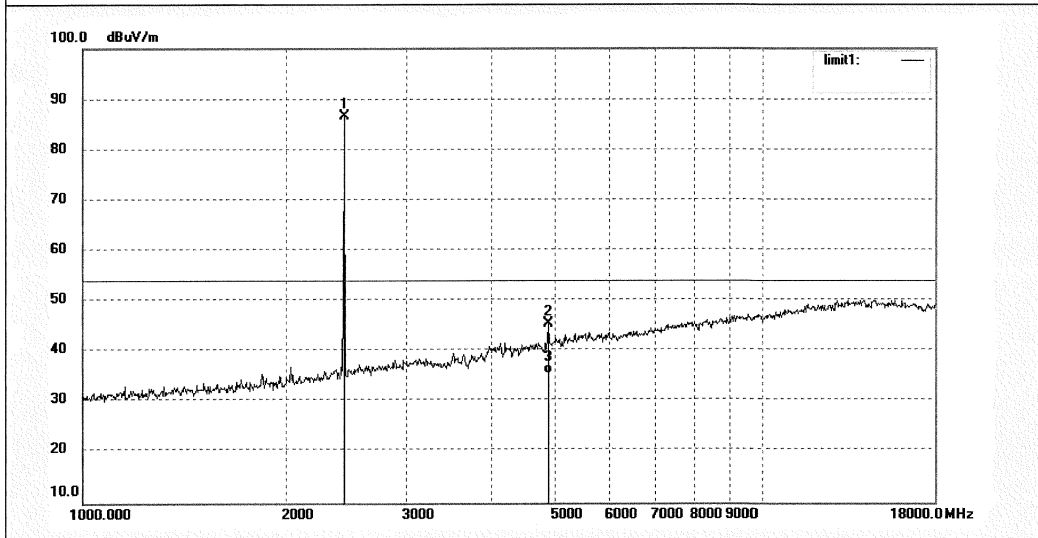
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #867	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	93.96	-7.36	86.60	/	/	peak			
2	4880.025	45.38	0.13	45.51	74.00	-28.49	peak			
3	4880.025	35.45	0.13	35.58	54.00	-18.42	AVG			


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Tel:+86-0755-26503290

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Job No.: Igwade #869

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Clamp Meter

Mode: TX 2480MHz

Model: 770-3

Manufacturer: Testo AG

Polarization: Horizontal

Power Source: DC 4.5V

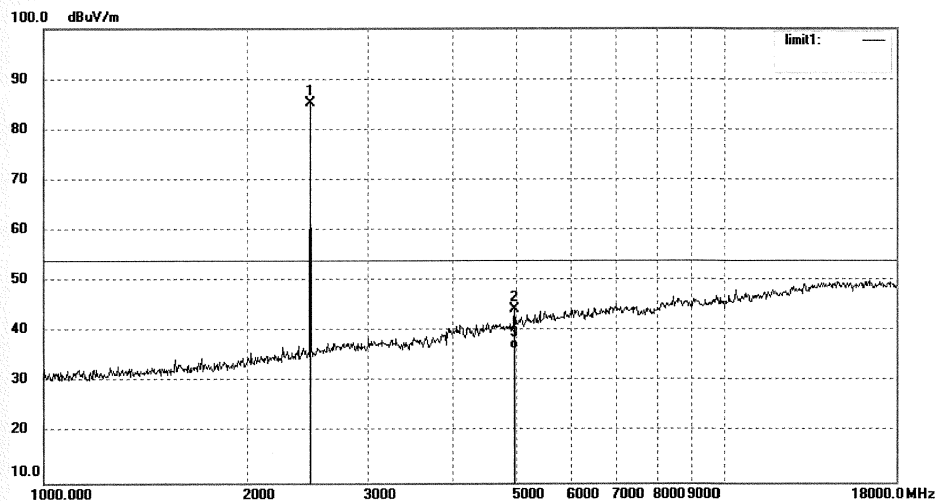
Date: 16/02/27/

Time:

Engineer Signature: LGWADE

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	2480.000	92.70	-7.37	85.33	/	/	peak			
2	4960.023	43.79	0.52	44.31	74.00	-29.69	peak			
3	4960.023	35.81	0.52	36.33	54.00	-17.67	AVG			


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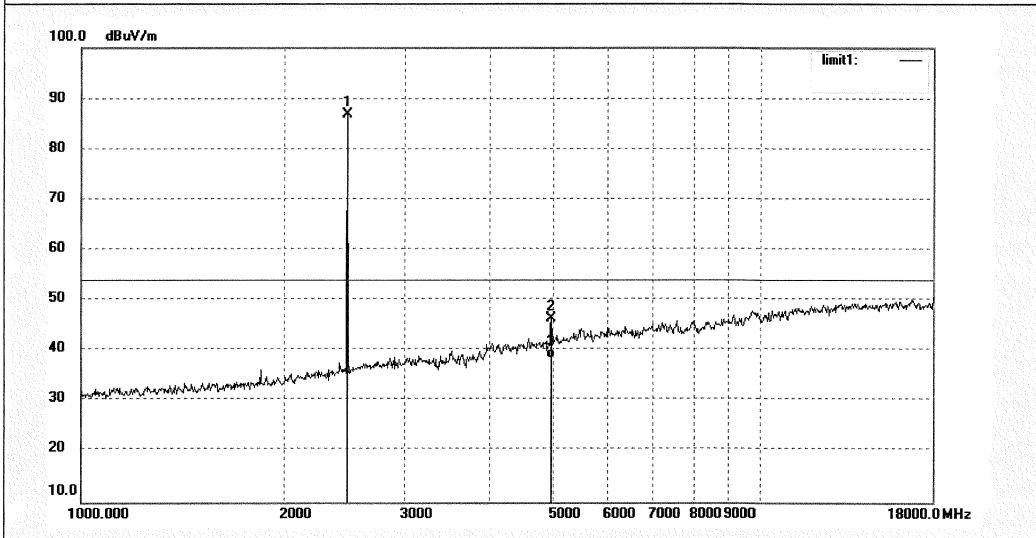
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #868	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

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	94.31	-7.37	86.94	/	/	peak			
2	4960.022	45.79	0.52	46.31	74.00	-27.69	peak			
3	4960.022	37.92	0.52	38.44	54.00	-15.56	AVG			

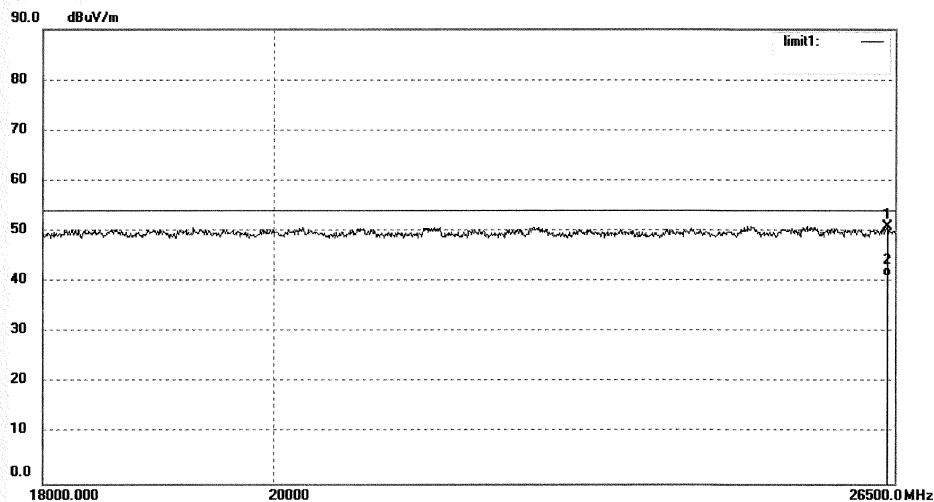

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 Site: 2# Chamber
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Job No.: Igwade #873	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

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	34.41	16.50	50.91	74.00	-23.09	peak			
2	26407.915	24.57	16.50	41.07	54.00	-12.93	AVG			


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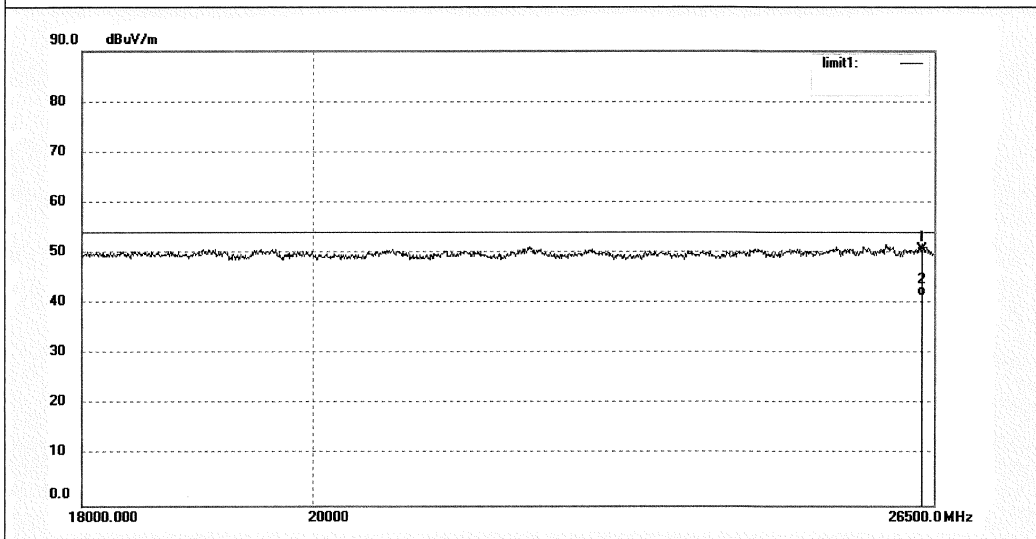
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #872	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



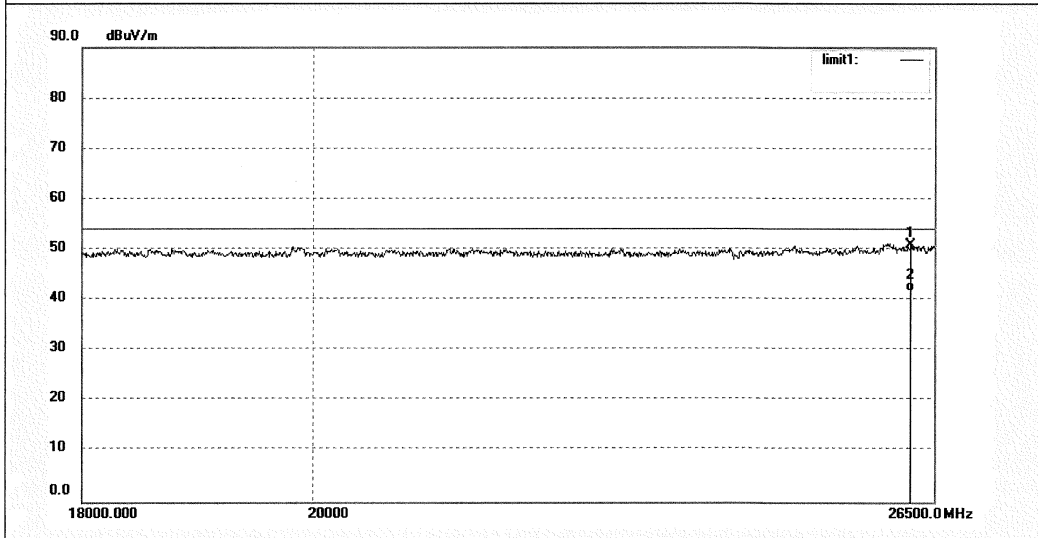
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26356.895	33.81	17.00	50.81	74.00	-23.19	peak			
2	26356.895	24.56	17.00	41.56	54.00	-12.44	AVG			


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Job No.: Igwade #874	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26224.704	34.41	16.50	50.91	74.00	-23.09	peak			
2	26224.704	25.21	16.50	41.71	54.00	-12.29	AVG			


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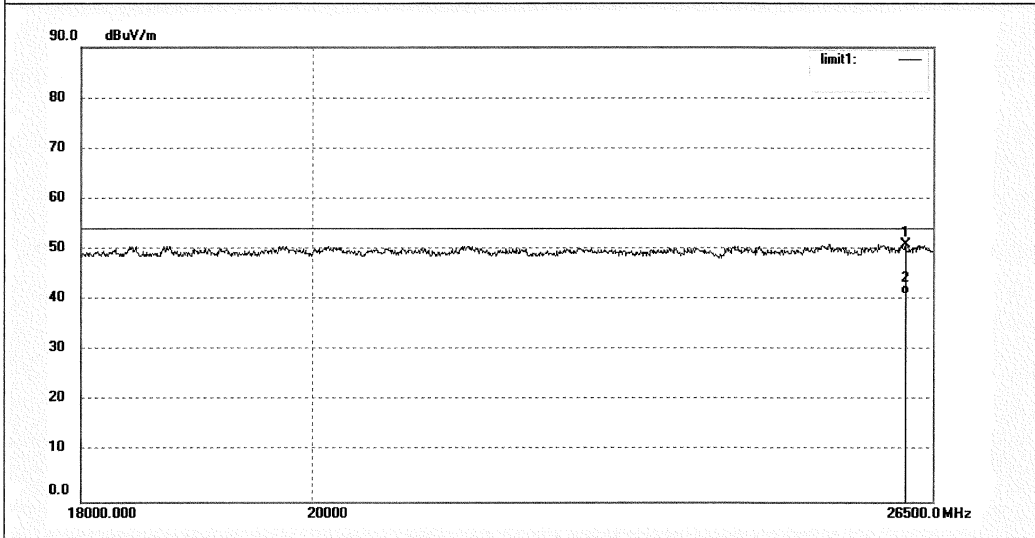
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #875	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26174.038	33.74	17.12	50.86	74.00	-23.14	peak			
2	26174.038	23.87	17.12	40.99	54.00	-13.01	AVG			


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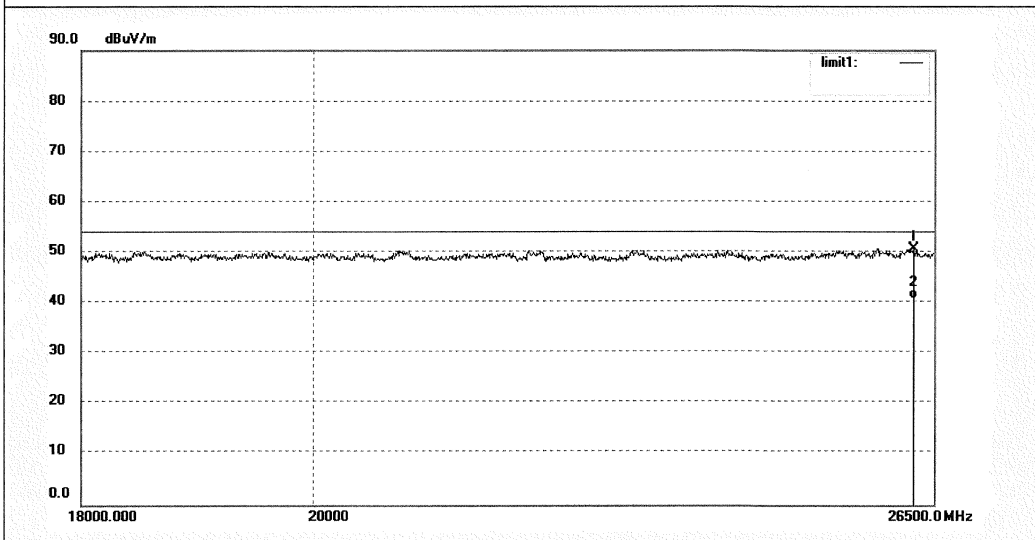
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #877	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26265.307	34.13	16.50	50.63	74.00	-23.37	peak			
2	26265.307	24.26	16.50	40.76	54.00	-13.24	AVG			


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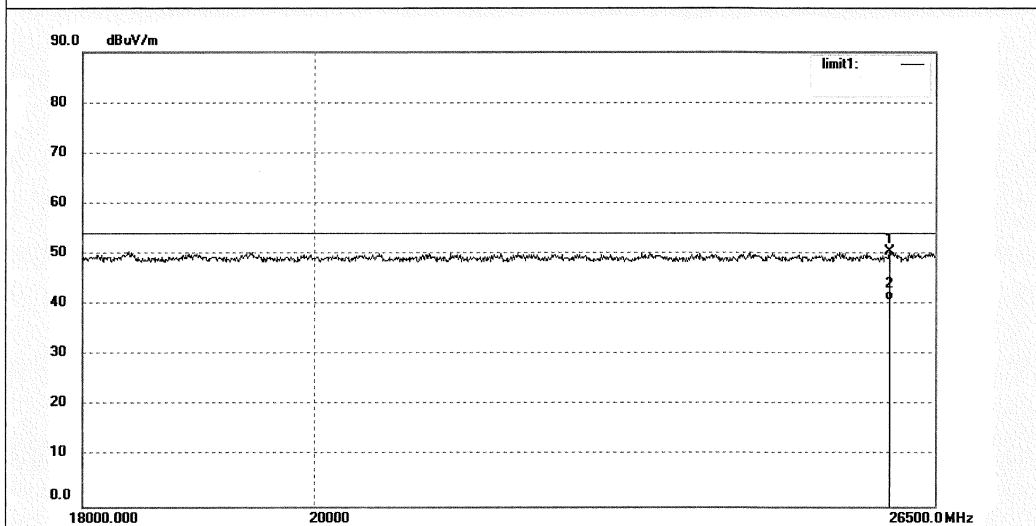
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #876	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25962.307	33.21	17.26	50.47	74.00	-23.53	peak			
2	25962.307	23.58	17.26	40.84	54.00	-13.16	AVG			

Test Plot of Band Edge


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

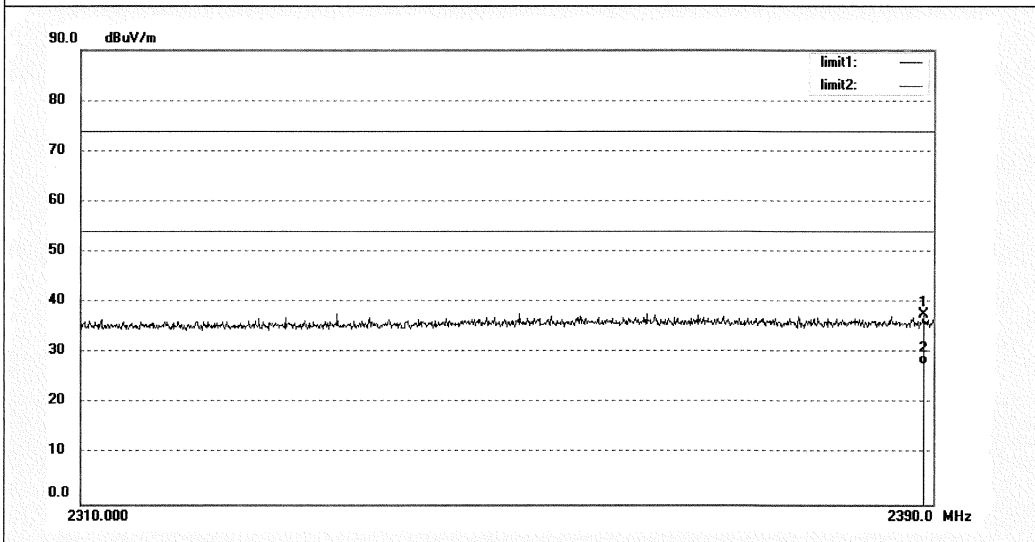
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #865	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



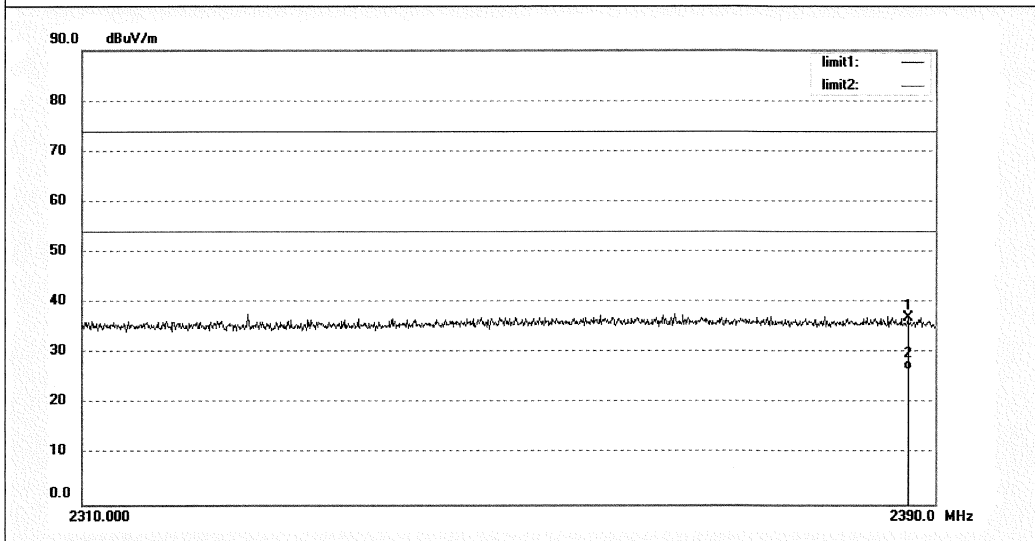
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.040	45.27	-7.53	37.74	74.00	-36.26	peak			
2	2389.040	35.36	-7.53	27.83	54.00	-26.17	AVG			


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

Job No.: Igwade #864	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2387.440	44.56	-7.54	37.02	74.00	-36.98	peak			
2	2387.440	34.25	-7.54	26.71	54.00	-27.29	AVG			


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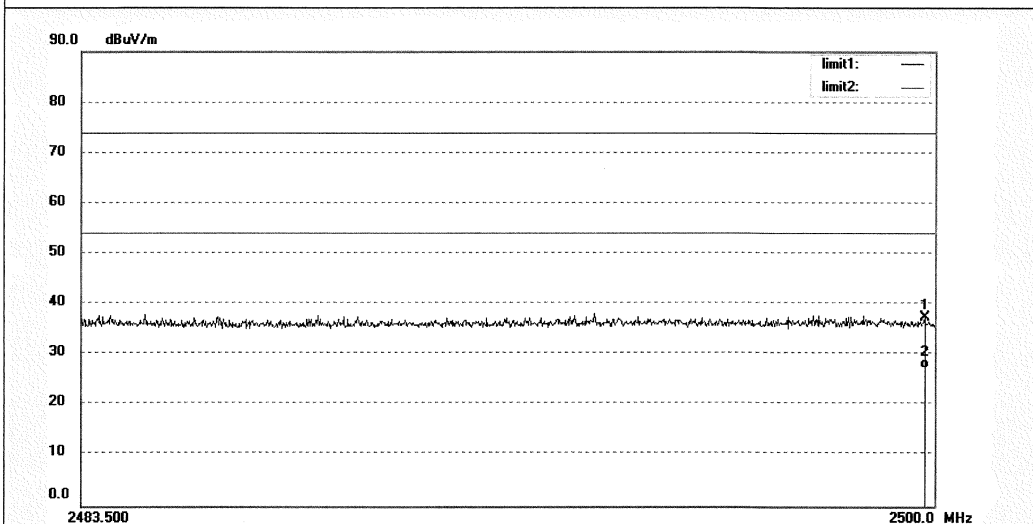
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #870	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



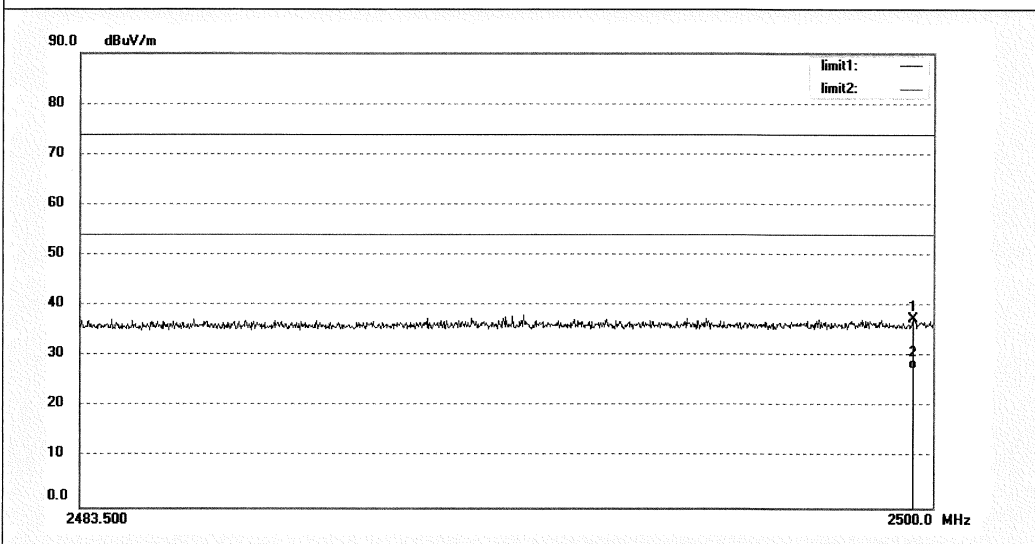
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2499.802	44.77	-7.40	37.37	74.00	-36.63	peak			
2	2499.802	34.84	-7.40	27.44	54.00	-26.56	AVG			


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

Job No.: Igwade #871	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2499.620	44.87	-7.40	37.47	74.00	-36.53	peak			
2	2499.620	34.96	-7.40	27.56	54.00	-26.44	AVG			

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5.1.7 Radiated Emission

RESULT:**Pass**

Date of testing : 2016-02-27
Test standard : FCC Part 15.109 (a)
ICES-003 Issue 6 January 2016
Test procedure : ANSI C63.4: 2014
Frequency range : 30 - 6000MHz
Equipment Classification : Class B
Limits : FCC Part 15.109 (a)
ICES-003 Issue 6 January 2016
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Input Voltage : AC 120V, 60Hz
Operation mode : B
Earthing : Not connected
Ambient temperature : 23°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

For details refer to following test plot.


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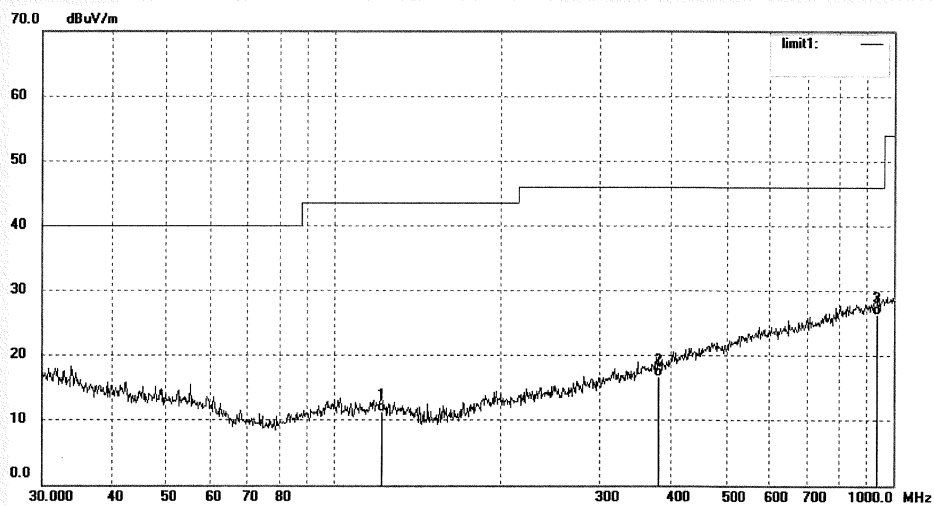
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #909	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: A	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.5485	24.20	-12.96	11.24	43.50	-32.26	QP			
2	379.9141	24.04	-7.34	16.70	46.00	-29.30	QP			
3	932.2714	24.46	1.85	26.31	46.00	-19.69	QP			


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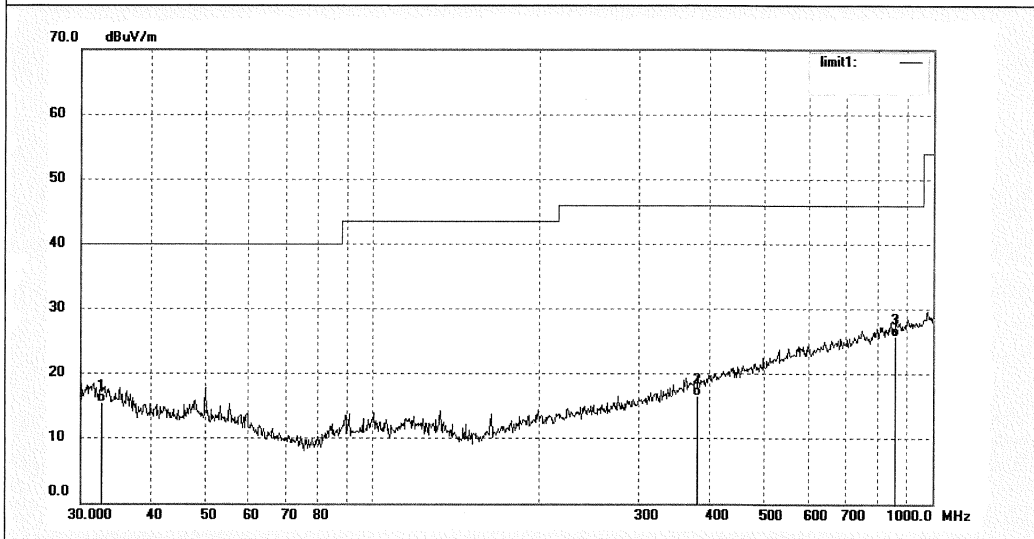
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #908	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: A	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	24.41	-8.90	15.51	40.00	-24.49	QP			
2	381.2485	23.93	-7.32	16.61	46.00	-29.39	QP			
3	860.0352	24.94	0.86	25.80	46.00	-20.20	QP			


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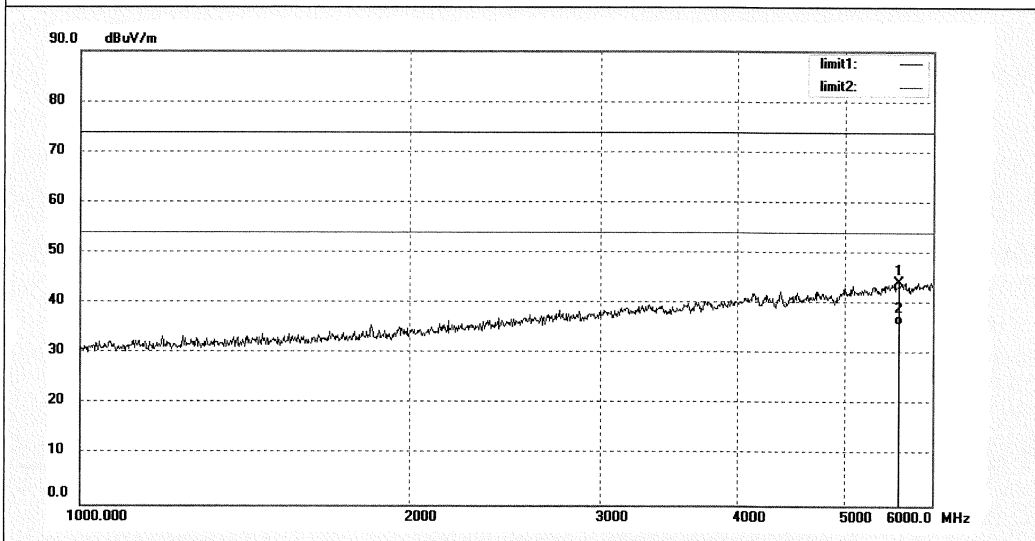
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #915	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: A	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5595.042	42.75	1.45	44.20	74.00	-29.80	peak			
2	5595.042	34.36	1.45	35.81	54.00	-18.19	AVG			


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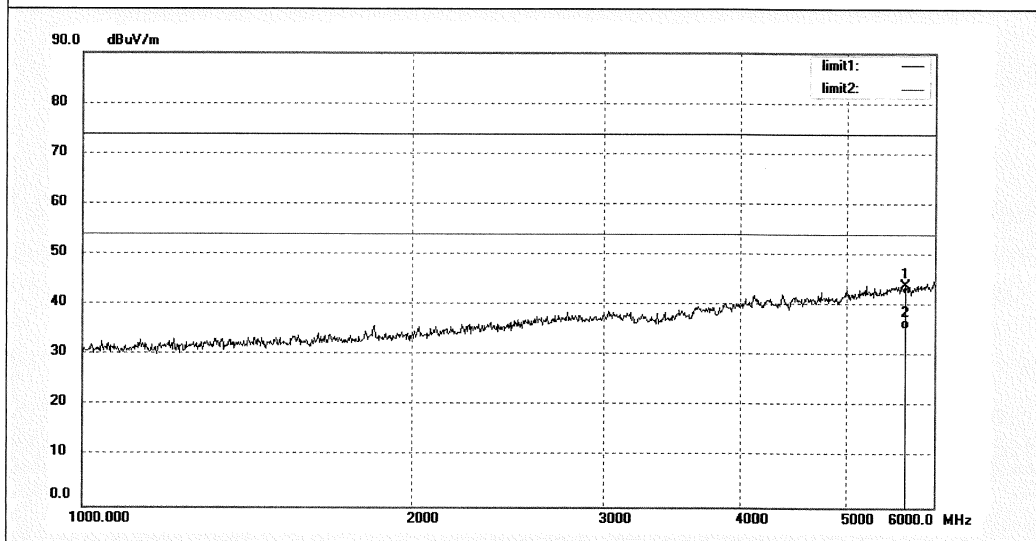
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #914	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 16/02/27/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Clamp Meter	Engineer Signature: LGWADE
Mode: A	Distance: 3m
Model: 770-3	
Manufacturer: Testo AG	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5645.392	42.77	1.30	44.07	74.00	-29.93	peak			
2	5645.392	34.23	1.30	35.53	54.00	-18.47	AVG			

1. Safety Human exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:**Pass**

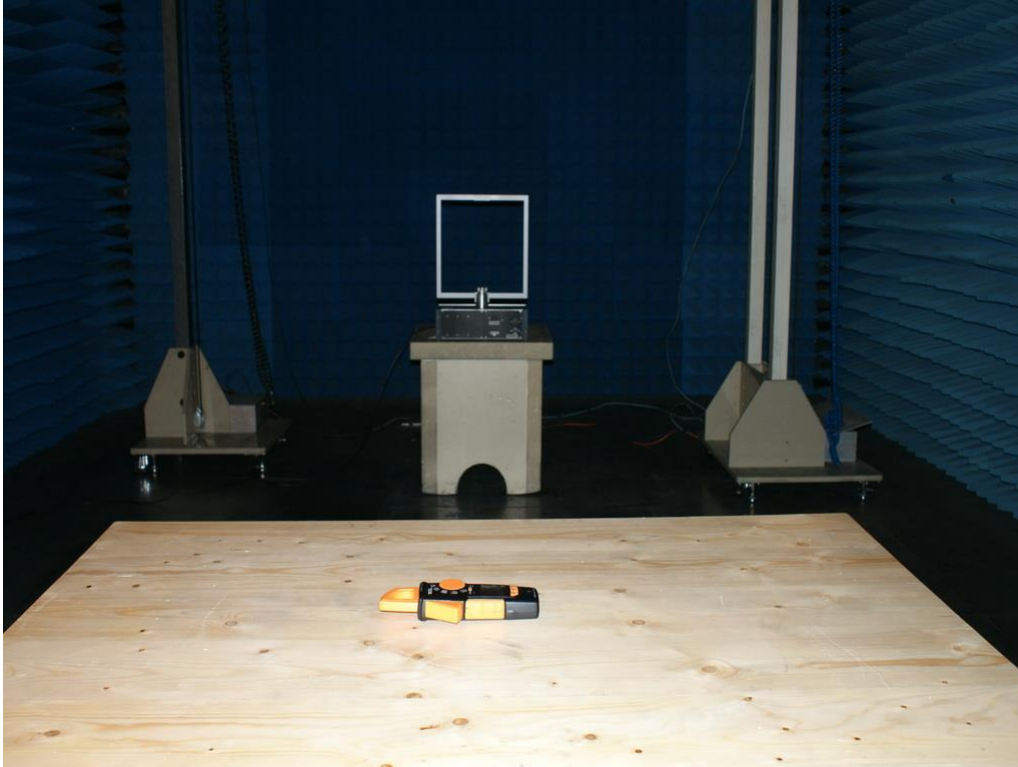
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06

The maximum radiated power of the transmitter is 0.776mW (-1.10dBm) 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.

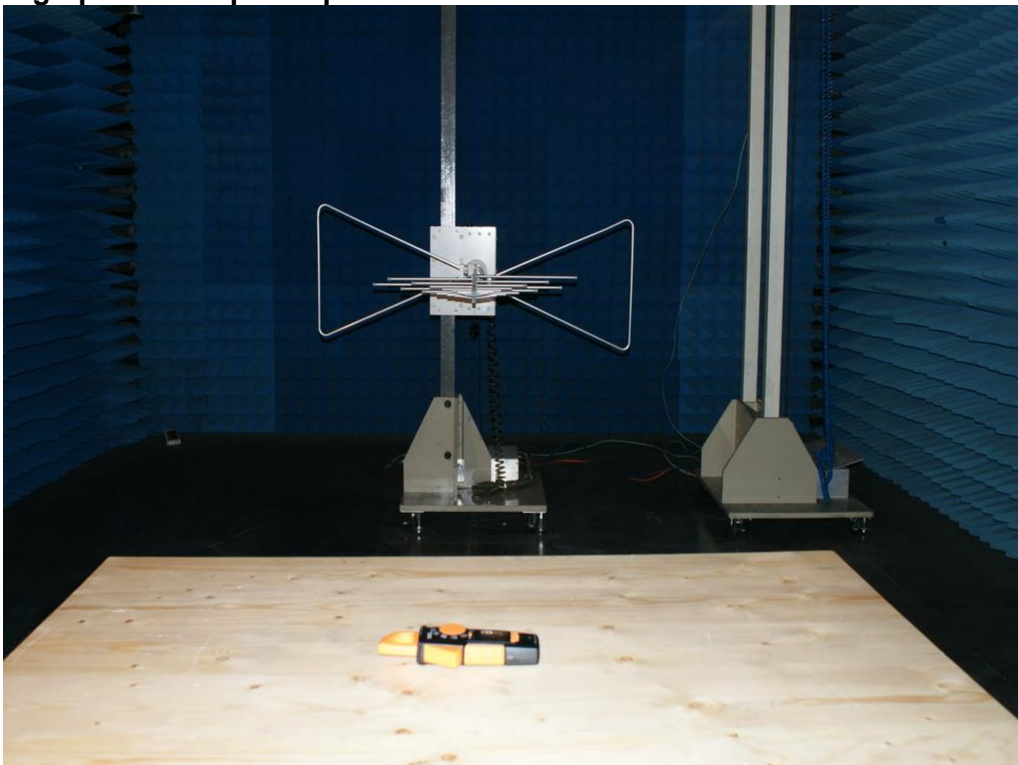
Since maximum radiated power of the transmitter is $0.776\text{mW} < 10\text{mW}$, and the distance from EUT to human is $\geq 5\text{mm}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.

2. Photographs of the Test Set-Up

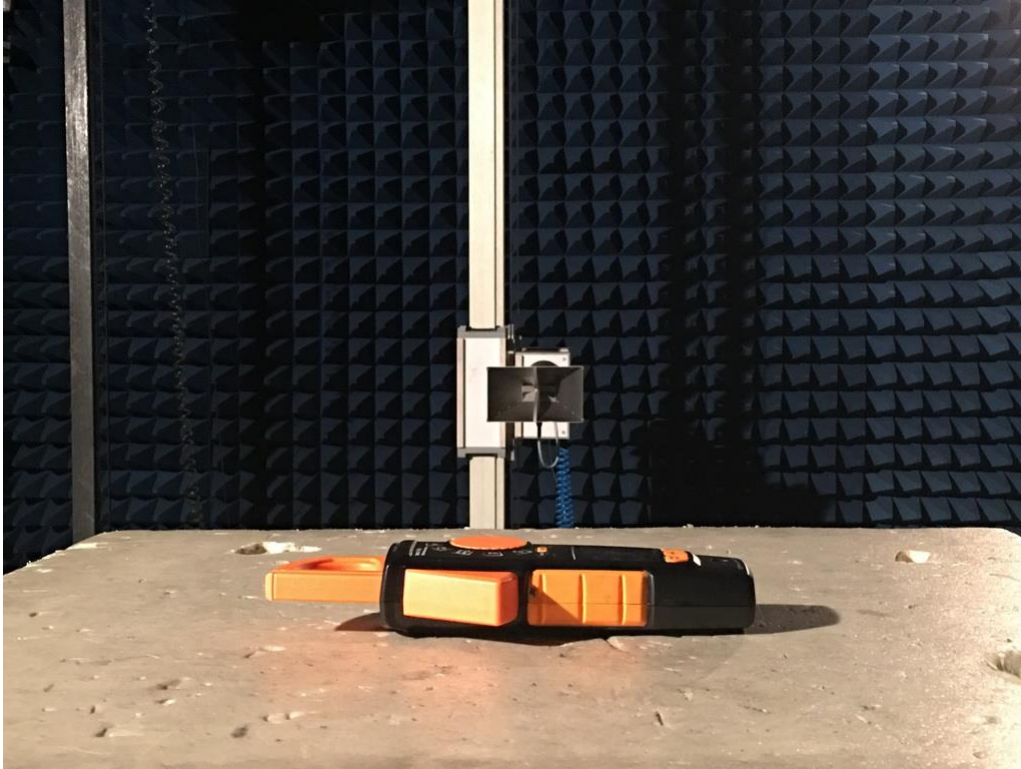
Photograph 1: Set-up for Spurious Emissions for below 30MHz



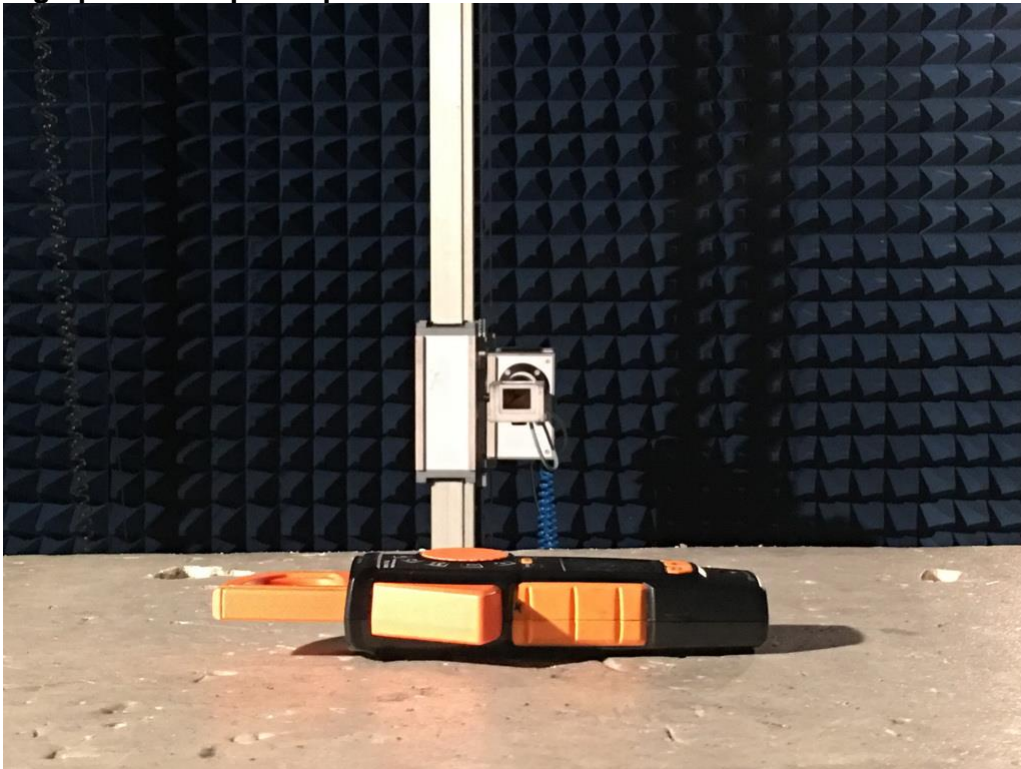
Photograph 2: Set-up for Spurious Emissions for 30 - 100MHz



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



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



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