

Prüfbericht-Nr.: Auftrags-Nr.: 17052720 003 164045796 Seite 1 von 107 Test Report No.: Order No.: Page 1 of 107 Kunden-Referenz-Nr.: N/A Auftragsdatum: 21,09,2015 Client Reference No.: Order date: Auftraggeber: Lightcomm Technology Co., Ltd. RM1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP STREET, KWUN TONG, HONG KONG Client: Prüfgegenstand: 11.6" QUAD CODE TABLET Test item: Bezeichnung / Typ-Nr.: DL1168A, MID1102-MA Identification / Type No.: **Auftrags-Inhalt: FCC Certification** Order content: Prüfarundlage: CFR47 FCC Part 15: Subpart E Section 15.407 Test specification: CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 Wareneingangsdatum: 18,09,2015 Date of receipt: Prüfmuster-Nr.: ES150922017E-1, ES150922017E-2, ES150922017E-3 Test sample No.: Prüfzeitraum: 19.09.2015 - 23.09.2015 Testing period: Ort der Prüfung: Shenzhen EMTEK Co., Ltd. Place of testing: Prüflaboratorium: TÜV Rheinland (Shenzhen) Co., Ltd. Testing laboratory: Prüfergebnis*: **Pass** Test result*: geprüft von I tested by: kontrolliert von I reviewed by m 10.10.2015 Owen Tian/Senior Project Manager 10.10.2015 Sam Lin/Technical Certifier Name / Stellung Datum Unterschrift Datum Name / Stellung Unterschrift Date Name / Position Signature Date Name / Position Signature Sonstiges / Other: Prüfmuster vollständig und unbeschädigt Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery: Test item complete and undamaged * Legende: 1 = sehr aut 2 = gut 3 = befriedigend 4 = sugreichend 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 3 = satisfactory 4 = sufficient Legend: 1 = very good 2 = a g g g g5 = 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. 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.



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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 26DB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 6DB BANDWIDTH

RESULT: Pass

5.1.5 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.6 Spurious Emission

RESULT: Pass

5.1.7 CONDUCTED EMISSIONS

RESULT: Pass

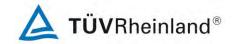


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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)

Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China

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



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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Туре	S/N	Calibrated until		
Transmitter spurious emissions						
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2016-05-16		
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2016-05-16		
Cable	H+B	3M SF104-26.5	295838/4	2016-05-28		
Cable	H+B	6M SF104-26.5	295840/4	2016-05-28		
Pre-Amplifier	HP	8447F	2944A07999	2016-05-16		
Bilog Antenna	Schwarzbeck	VULB9163	142	2016-05-28		
Cable	Schwarzbeck	AK9513	ACRX1	2016-05-16		
Cable	Rosenberger	N/A	FP2RX2	2016-05-16		
Cable	Schwarzbeck	AK9513	CRPX1	2016-05-28		
Cable	Schwarzbeck	AK9513	CRRX2	2016-05-28		
Pre-Amplifier	A.H.	PAM-0126	1415261	2016-05-16		
Horn Antenna	Schwarzbeck	BBHA 9120	707	2016-05-28		
Pre-Amplifier	A.H.	PAM-0126	1415261	2016-05-16		
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2016-05-16		
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2016-05-16		
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2016-05-16		
Horn Antenna	AHS/USA	SAS-573	184	2016-05-16		
Cable	H+B	0.5M SF104-26.5	289147/4	2016-05-16		
Cable	H+B	3M SF104-26.5	295838/4	2016-05-16		
Cable	H+B	6M SF104-26.5	295840/4	2016-05-16		
Radio Spectrum Test						
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2016-05-16		
Vector Signal Generater	Agilent	N5182B	My53050553	2016-05-28		
Analog Signal Generator	Agilent	N5171B	My53050878	2016-05-28		
Signal Analyzer	Agilent	N9010A	My53470879	2016-05-28		
Power Meter	Agilent	PS-X10-100	N/A	2016-05-28		
Temp. / Humidity Chamber	Kingson	THS-M1	242	2016-05-28		
Conducted Emission						
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	2016-05-16		
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	2016-05-16		
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	2016-05-16		
Voltage Probe	Rohde & Schwarz	TK9416	N/A	2016-05-16		
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	2016-05-16		
50Ω Coaxial Switch	Anritsu	MP59B	M20531	2016-05-16		

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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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

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.



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2.7 Status of Facility Used for Testing	
Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zo Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements	

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3. General Product Information

3.1 Product Function and Intended Use

The EUTs are 11.6" quad code tablet with Wi-Fi, Bluetooth function. These models are identical except the model name. 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	MID
Type Designation	DL1168A, MID1102-MA
FCC ID	XMF-MID1102
Operating Frequency band	5180 – 5240MHz, 5745 – 5825MHz
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)
Antenna Gain	0.67dBi

Table 4: Technical Specification of Wi-Fi

Item	Description (IEEE 802.11a)
Operating Frequency band (MHz)	5180 – 5240MHz, 5745 – 5825MHz
Channel Number	9
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Data Rate (Mbps)	6, 9, 12, 18, 24, 36, 48, 54
Transmitter Output Power (Typical) (dBm)	14
Media Access Protocol	CSMA/CA with ACK

Table 5: Carrier Frequency of 802.11a

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	36	5180 MHz	153	5765 MHz
5190 5240MU¬	40	5200 MHz	157	5785 MHz
5180 – 5240MHz, 5745 – 5825MHz	44	5220 MHz	161	5805 MHz
5745 - 5625WHZ	48	5240 MHz	165	5825 MHz
	149	5745 MHz		



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3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi mode (5180 5240MHz)
 - 1. Transmitting
 - a. Low Channel
 - b. High Channel
 - 2. Receiving
- B. On, Wi-Fi mode (5745 5825MHz)
 - 1. Transmitting
 - a. Low Channel
 - b. High Channel
 - 2. Receiving
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- Constructional Drawing
- PCB Layout
- Photo Document

- Circuit Diagram
- Instruction Manual
- Rating Label

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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.

According to clause 3.1, all tests were applied on model MID1102-MA only.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	TEKA	TEKA012-0502000UK	Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 5V, 2A

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
Micro USB port	4 cores, non-shielded port, 3m	DC Power Input

4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.



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4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test for below 1GHz

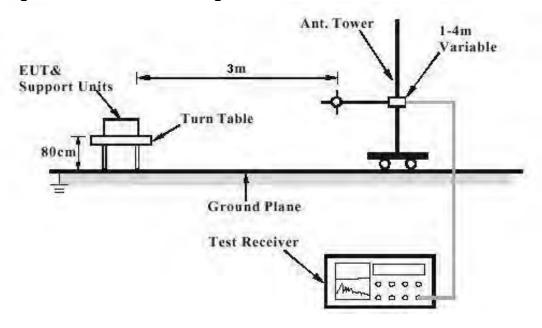
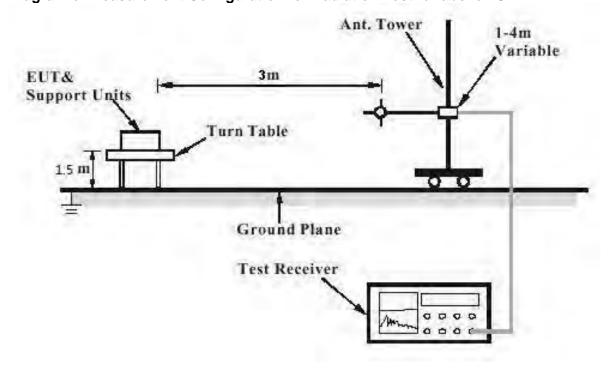


Diagram of Measurement Configuration for Radiation Test for above 1GHz





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Diagram of Measurement Equipment Configuration for Conduction Measurement

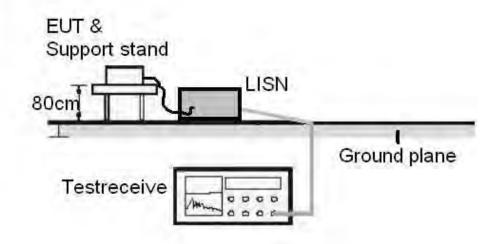
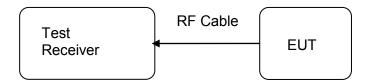


Diagram of Measurement Equipment Configuration for Transmitter Measurement





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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test standard : FCC Part 15.203

Limit The use of antennas with directional gains that do

not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0.67dBi, 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 : 2015-09-21

Test standard : FCC Part 15.407(a)(1)

FCC Part 15.407(a)(3)

Basic standard : ANSI C63.10: 2013

Limit : 250mW / 1W Kind of test site : Shielded room

Test setup

Table 6: Test result of Peak Output Power of 802.11a

Channel	Channel Frequency	Peak Output Power	Limit	EIRP
Charmer	(MHz)	(dBm)	(dBm)	(dBm)
36	5180	13.72	24	14.50
40	5200	13.64	24	14.42
48	5240	13.35	24	14.13
149	5745	12.81	30	13.59
157	5785	12.94	30	13.72
165	5825	13.19	30	13.97



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5.1.3 26dB Bandwidth and 99% Bandwidth

RESULT: Pass

2015-09-21

Date of testing Test standard Basic standard Kind of test site FCC Part 15.407(a)(5) ANSI C63.10: 2013 Shielded room

Test setup

Test Channel : Operation Mode : Ambient temperature : Relative humidity : All channel A.1, B.1 **25**℃ 50% Atmospheric pressure : 101kPa

Table 7: Test result of 26dB Bandwidth and 99% Bandwidth of 802.11a

Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.92	17.00
40	5200	19.99	17.02
48	5240	20.01	17.00
149	5745	20.01	17.00
157	5785	19.98	17.00
165	5825	20.00	17.02



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5.1.4 6dB Bandwidth

RESULT: Pass

Date of testing 2015-09-21

Date of testing
Test standard
Basic standard FCC Part 15.407(e) ANSI C63.10: 2013

Limit 500kHz for 6dB bandwidth

Kind of test site Shielded room

Test setup

Test Channel All channel

Test Channel :
Operation Mode :
Ambient temperature :
Relative humidity : B.1 **25**℃ Relative humidity 50% Atmospheric pressure : 101kPa

Table 8: Test result of 6dB Bandwidth of 802.11a

Channel	Channel	6dB Bandwidth	Limit (MHz)
Chamilei	Frequency (MHz)	(MHz)	
149	5745	16.39	≥0.5
157	5785	16.39	≥0.5
165	5825	16.40	≥0.5



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5.1.5 Power spectral density

RESULT: Pass

Date of testing : 2015-09-21

Test standard : FCC Part 15.407(a)(1)

FCC Part 15.407(a)(3)

Basic standard : ANSI C63.10: 2013

Limit : 17dBm/MHz, 30dBm/500kHz (33dBm/MHz)

Kind of test site : Shield room

Test setup

Test Channel : All channel Operation mode : A.1, B.1 Ambient temperature : 25°C Relative humidity : 50% Atmospheric pressure : 101kPa

Table 9: Test result of power spectral density

Channel	Channel (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Conclusion
36	5180	-1.141	11	Pass
40	5200	-1.014	11	Pass
48	5240	-0.960	11	Pass
149	5745	-5.248	33	Pass
157	5785	-5.053	33	Pass
165	5825	-4.497	33	Pass



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5.1.6 Spurious Emission

RESULT: Pass

Date of testing : 2015-09-23

Test standard : FCC part 15.407(b)

KDB789033 D02 v01

Basic standard : ANSI C63.10: 2013 Limits : FCC part 15.209(a)

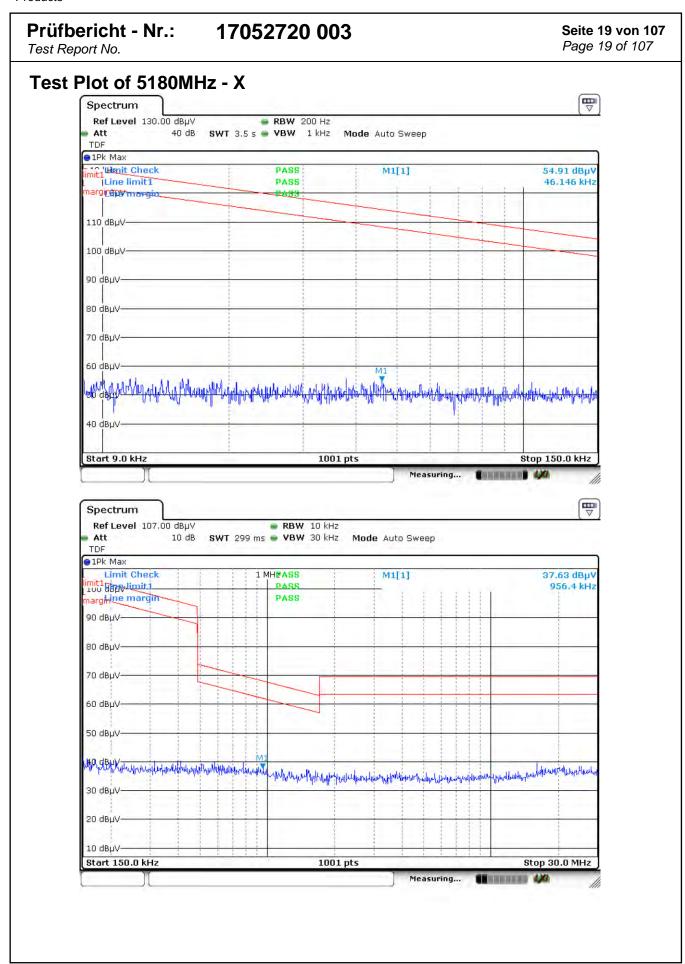
Kind of test site : 3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

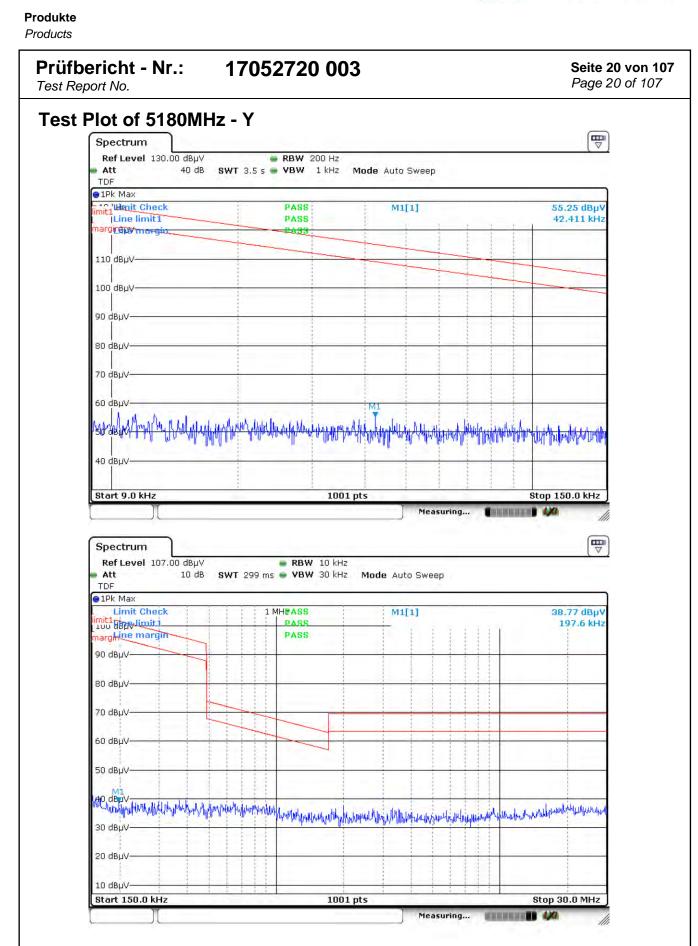
Test Channel : All channel Operation mode : A.1, B.1 Ambient temperature : 24°C Relative humidity : 53% Atmospheric pressure : 101kPa

For details refer to following test plot.







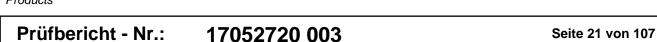




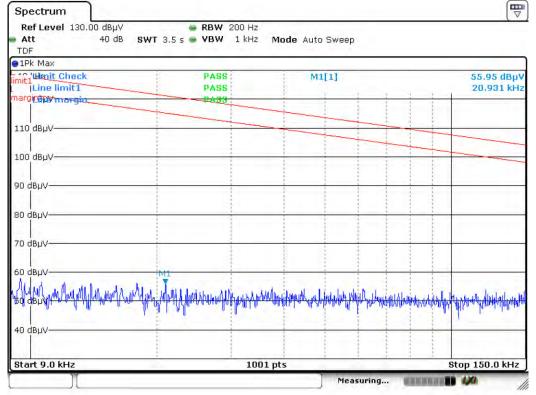
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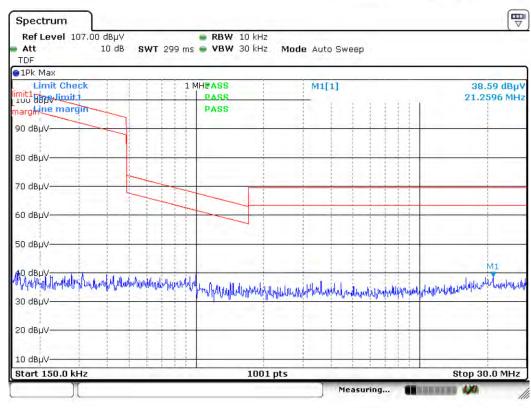
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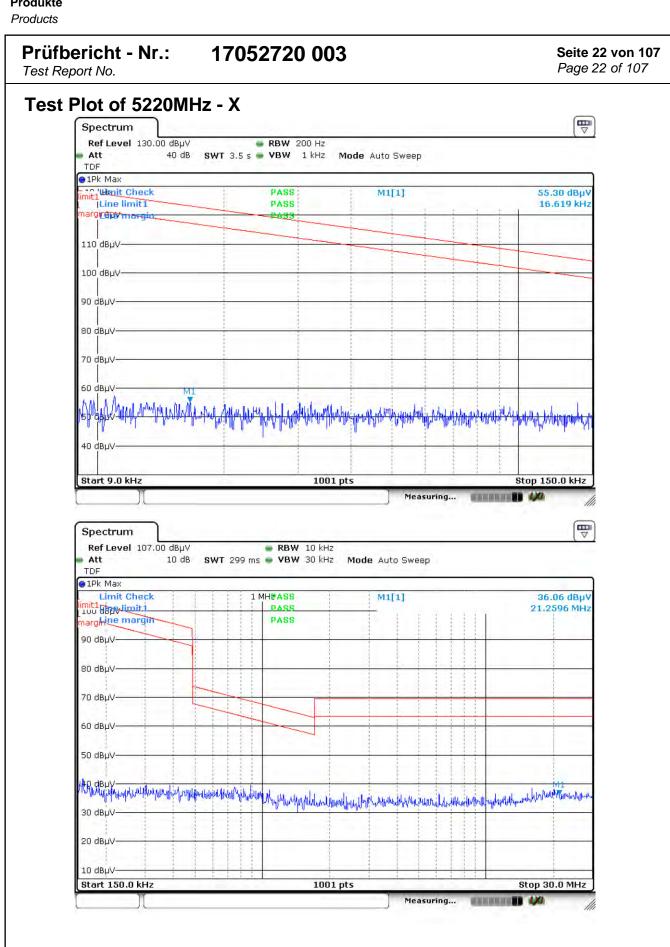


Test Plot of 5180MHz - Z



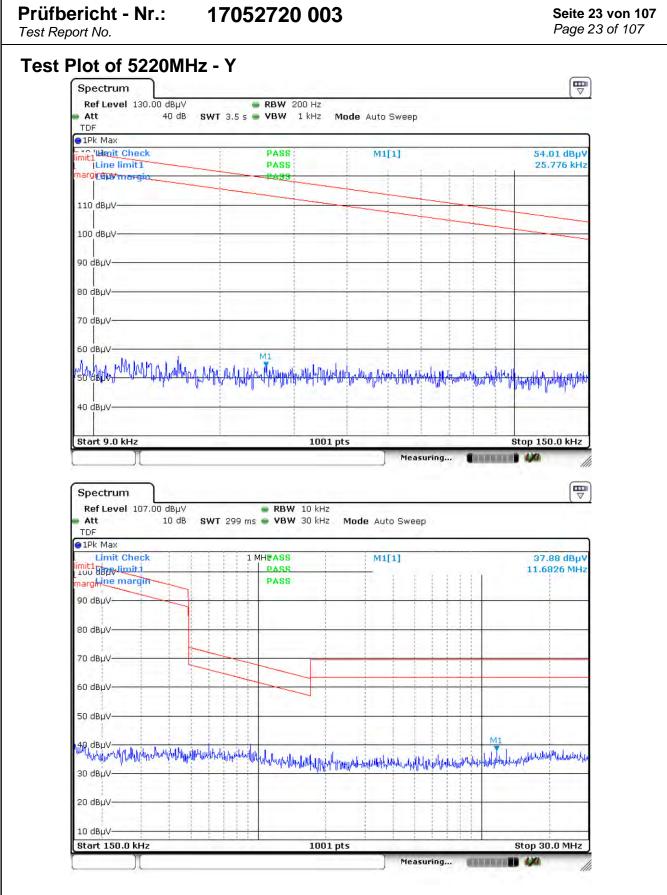




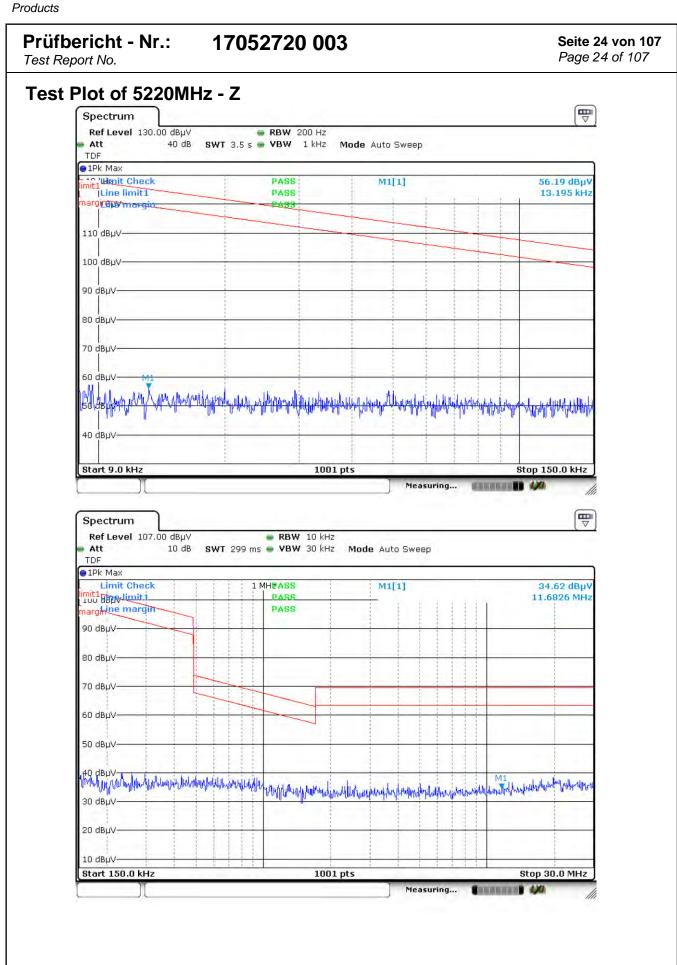






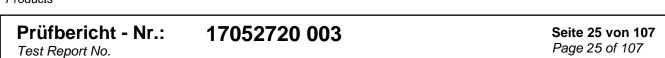




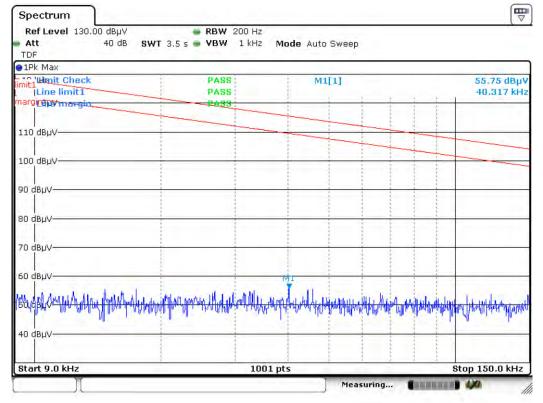


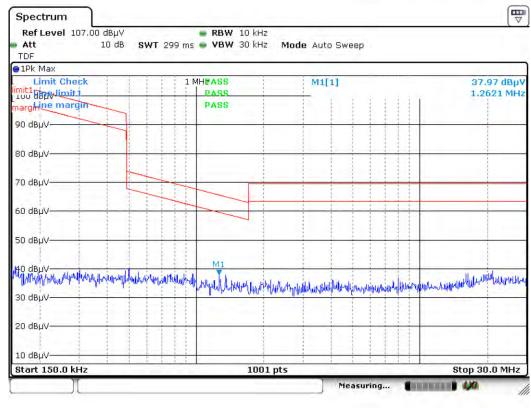


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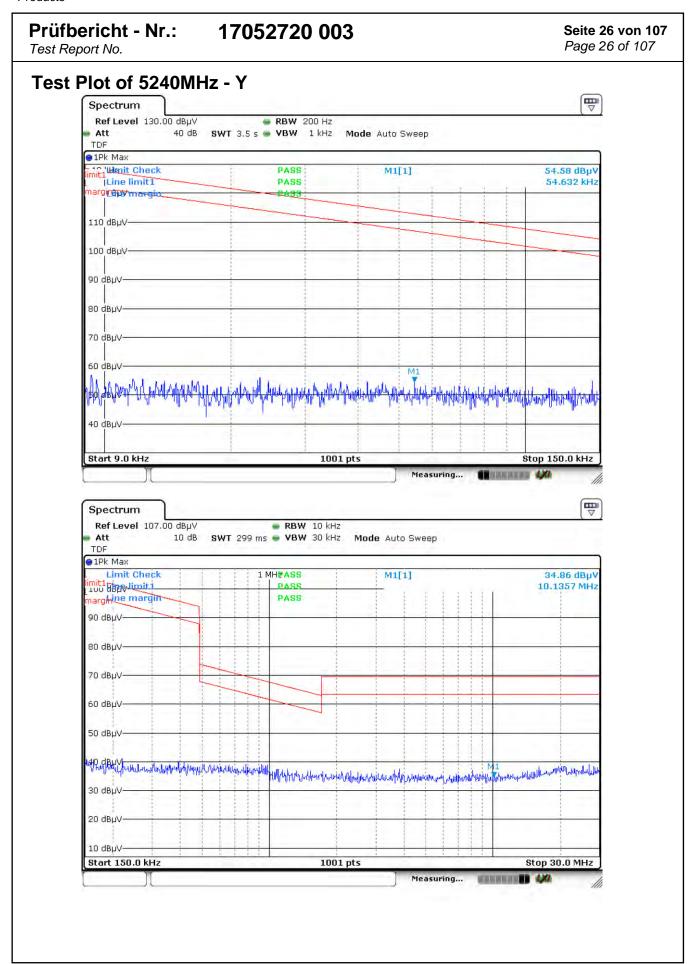


Test Plot of 5240MHz - X

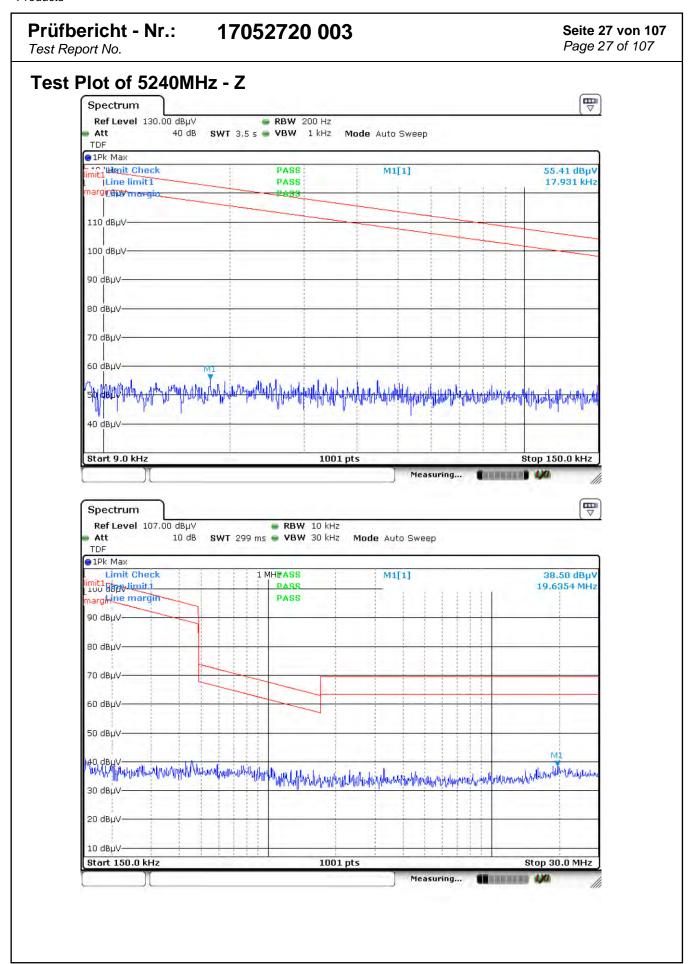






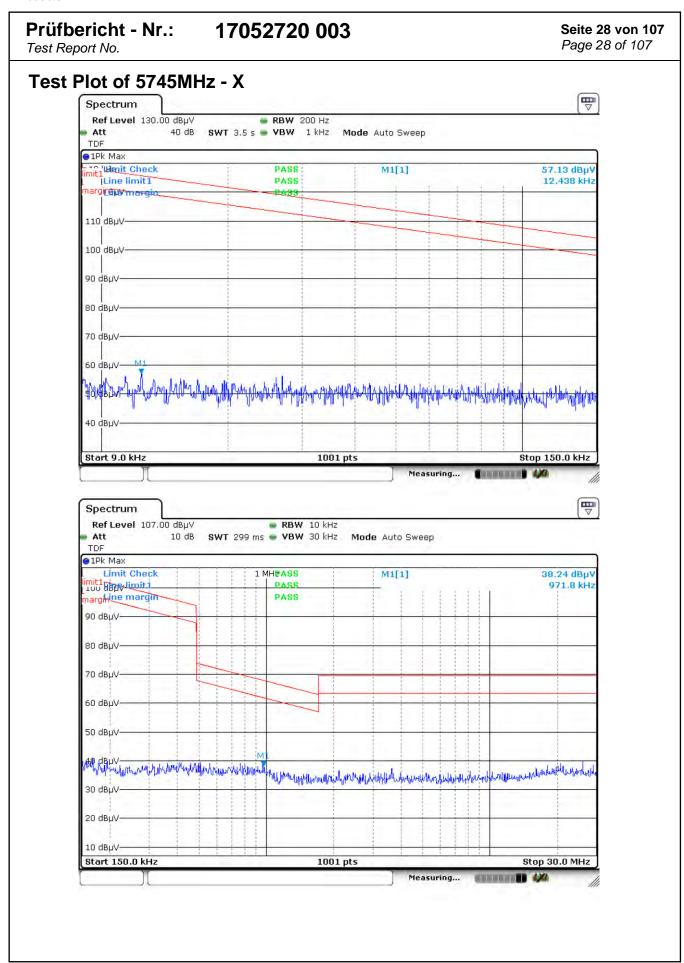




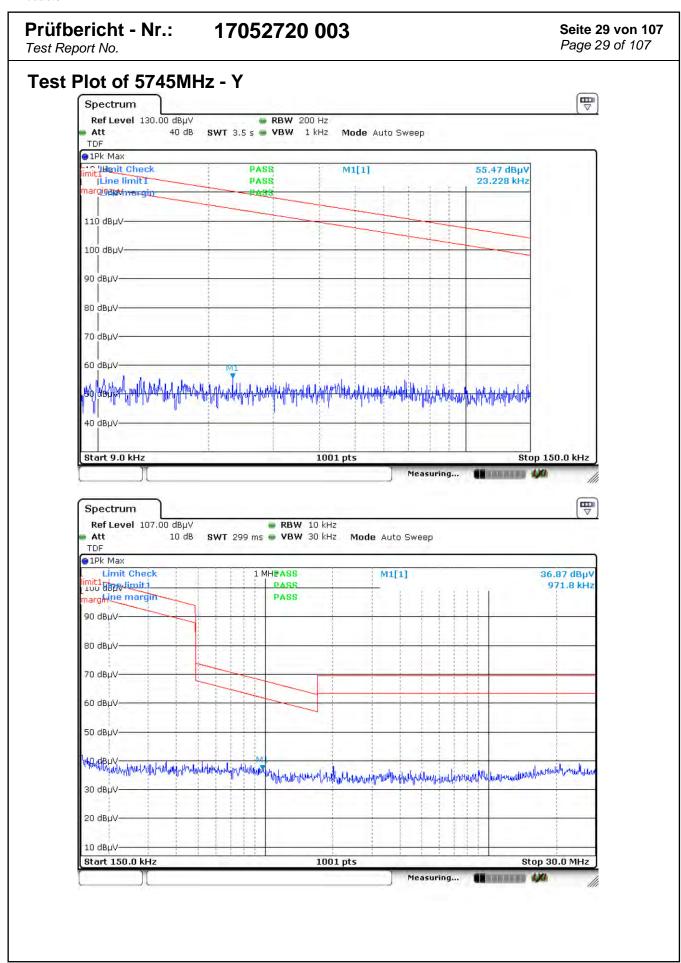






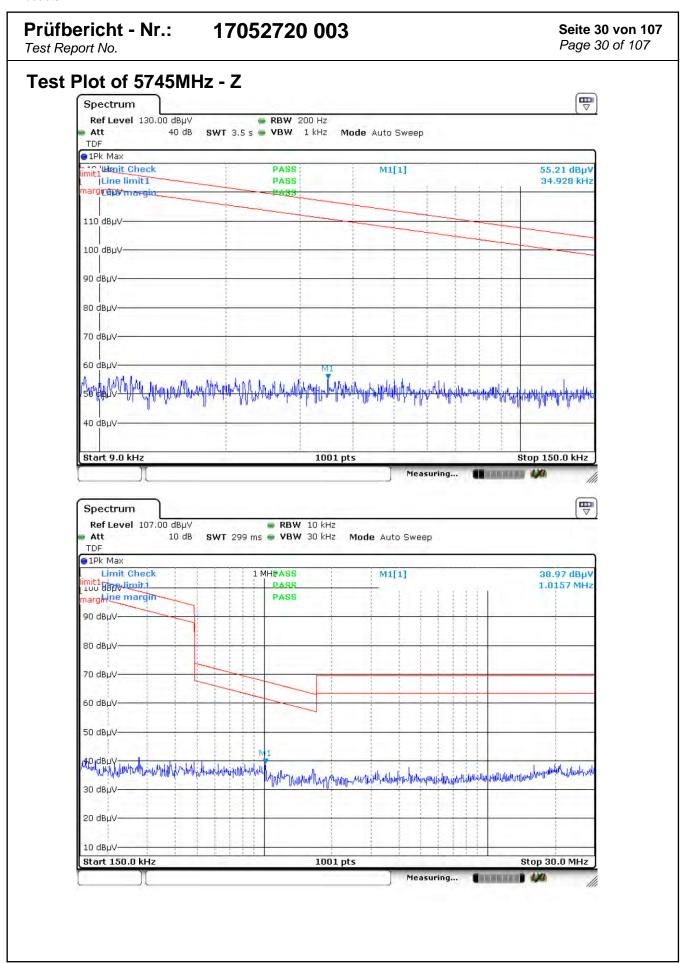




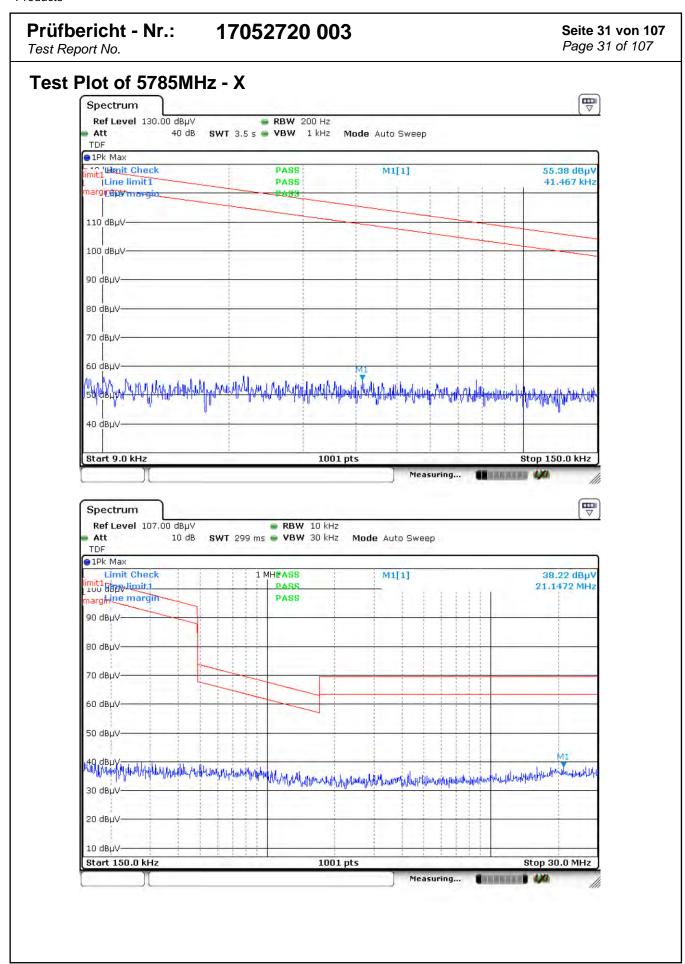




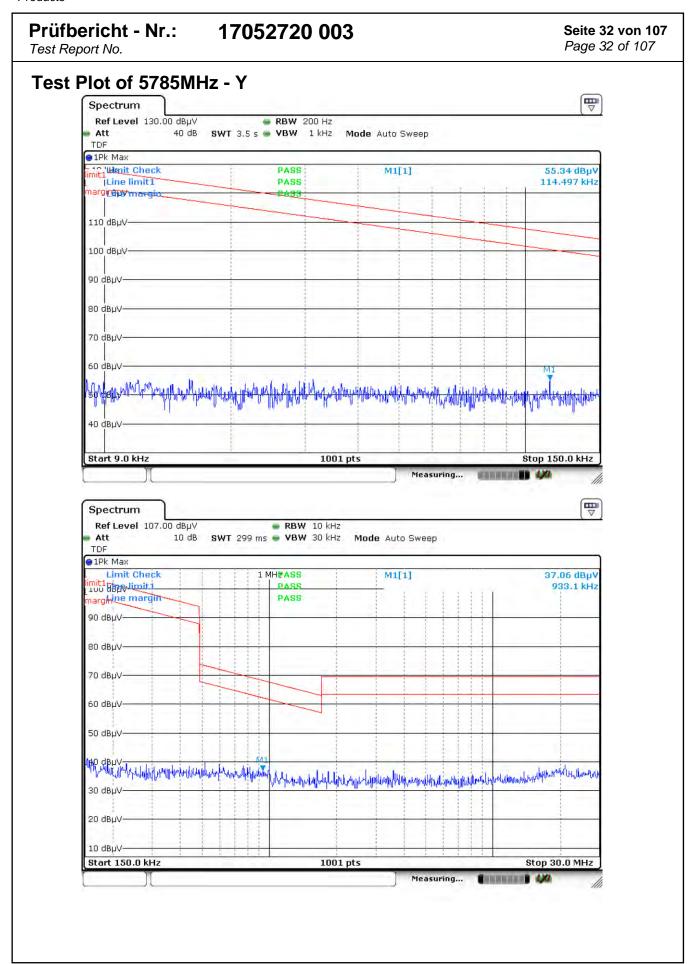










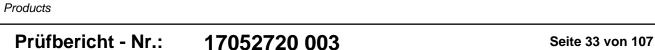




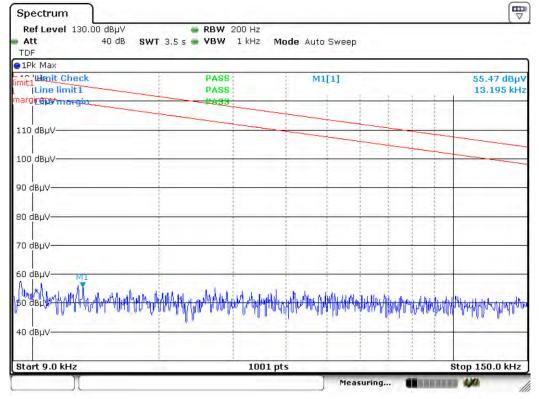
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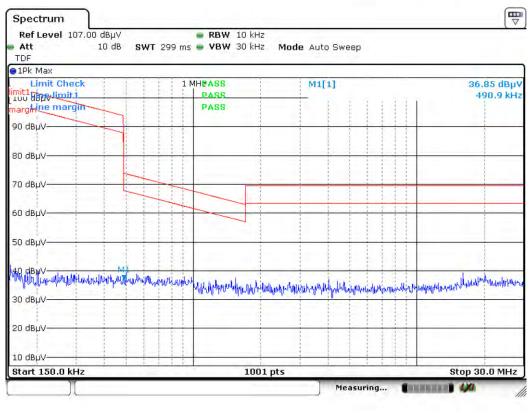
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Test Report No.

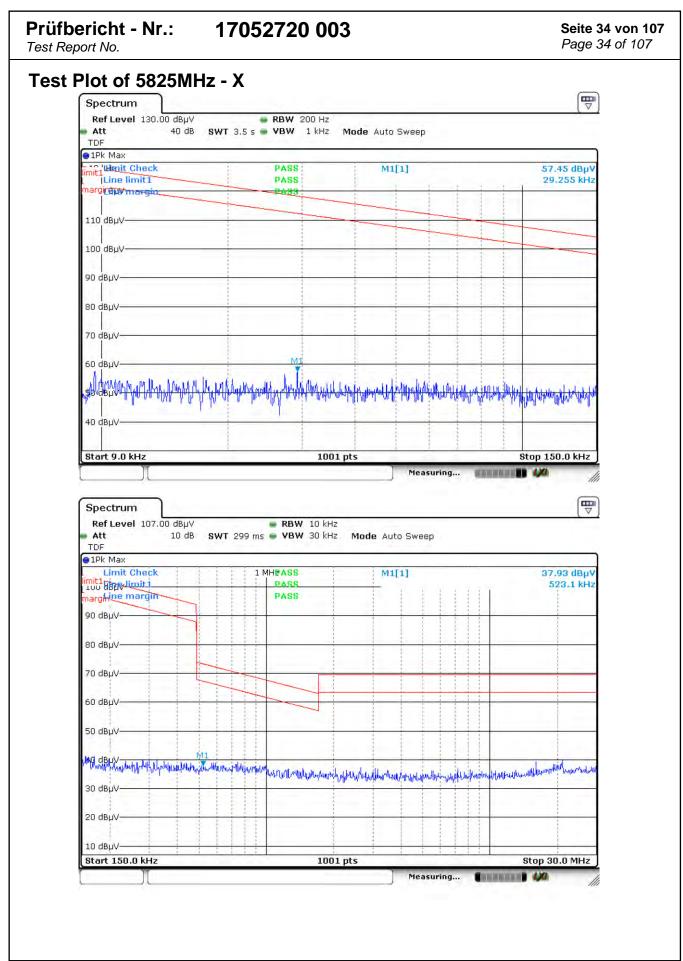


Test Plot of 5785MHz - Z



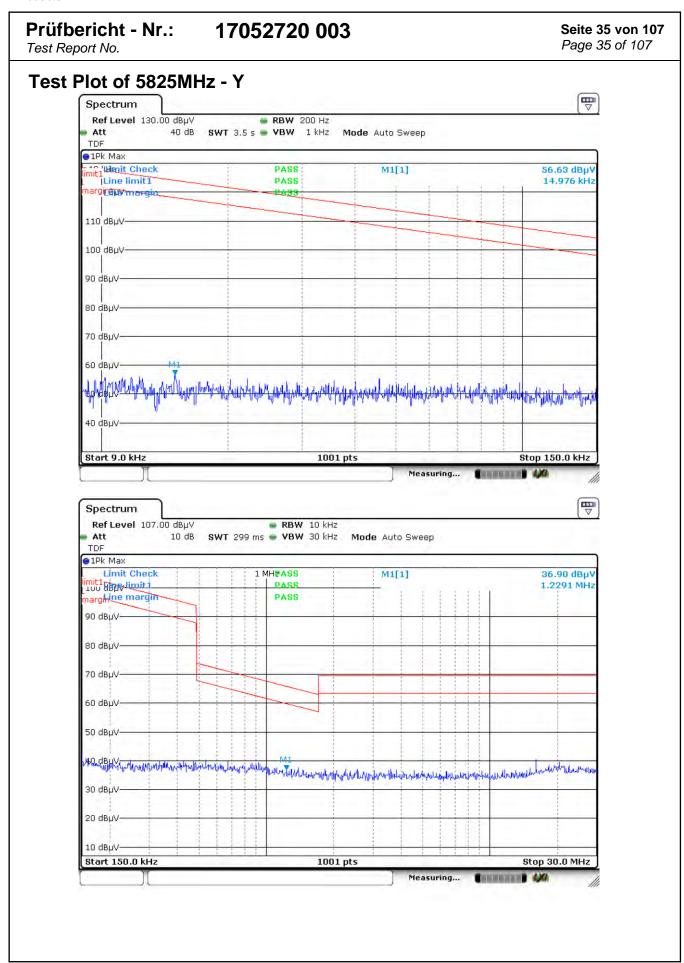




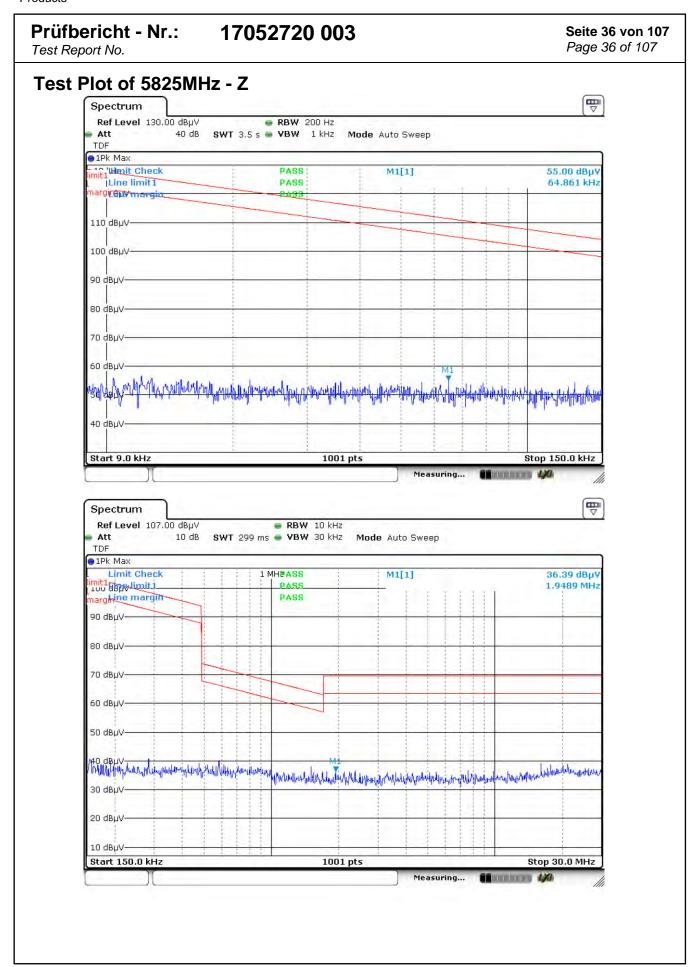














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Shenzhen EMTEK Co., Ltd.

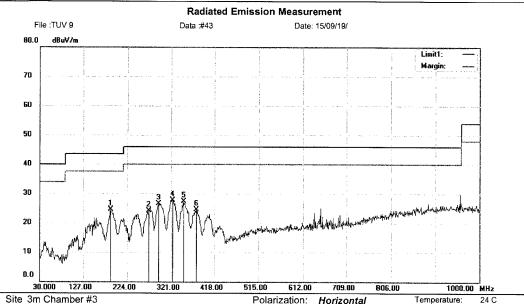
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	1	87.1400	42.33	-17.77	24.56	43.50	-18.94	QP			· · · · · · · · · · · · · · · · · · ·
2	2	271.5300	36.84	-12.67	24.17	46.00	-21.83	QP			****
3	2	292.8700	39.85	-13.39	26.46	46.00	-19.54	QP			
4	* 3	323.9100	41.05	-13.30	27.75	46.00	-18.25	QP	70.1		
5	3	348.1600	39.01	-11.77	27.24	46.00	-18.76	QP			
6	3	377.2600	34.58	-10.10	24.48	46.00	-21.52	QP			

*:Maximum data x:Over limit !:over margin

File:TUV 9\Data:#43

Page: 1



Products

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17052720 003

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Shenzhen EMTEK Co., Ltd.

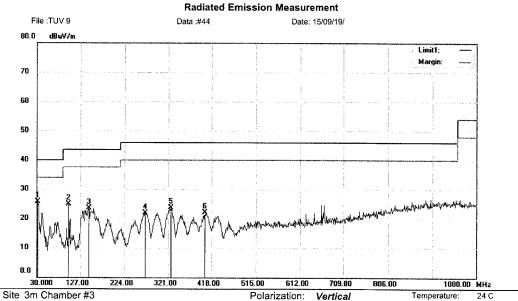
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180 Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	₫B	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	31.9400	41.49	-15.81	25.68	40.00	-14.32	QP			
2		100.8100	39.01	-14.02	24.99	43.50	-18.51	QP			
3		145.4300	41.50	-17.95	23.55	43.50	-19.95	QP			
4		269.5900	34.56	-12.69	21.87	46.00	-24.13	QP			
5		326.8200	36.83	-13.15	23.68	46.00	-22.32	QP			
6		402.4800	30.97	-8.93	22.04	46.00	-23.96	QP			· · · · · · · · · · · · · · · · · · ·

*:Maximum data x:Over limit !:over margin

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Prüfbericht - Nr.:

17052720 003

Test Report No.

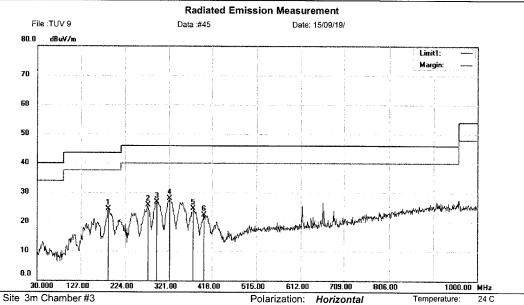
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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282





Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu√	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1	•	187.1400	42.00	-17.77	24.23	43.50	-19.27	QP		-	
2	2	274.4400	38.36	-12.63	25.73	46.00	-20.27	QP			
3	2	294.8100	40.11	-13.50	26.61	46.00	-19.39	QP			
4	* 3	322.9400	41.30	-13.35	27.95	46.00	-18.05	QP			
5	3	376.2900	34.72	-10.13	24.59	46.00	-21.41	QP	************	***************************************	
6		400.5400	31.27	-8.89	22.38	46.00	-23.62	QP			

*:Maximum data x:Over limit !:over margin

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Page: 1

Operator: KK

Humidity:

53 %



Products

Prüfbericht - Nr.:

17052720 003

Test Report No.

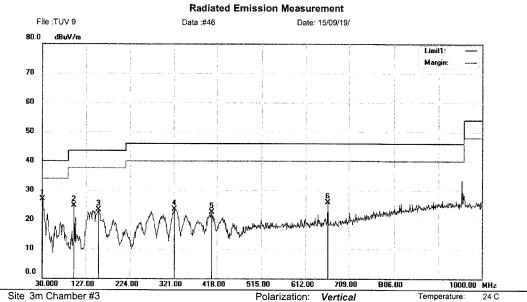
Seite 40 von 107 Page 40 of 107

Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.9700	43.05	-16.13	26.92	40.00	-13.08	QP			
2		100.8100	38.73	-14.02	24.71	43.50	-18.79	QP			
3		155.1300	41.81	-18.42	23.39	43.50	-20.11	QP			V.40.
4		322.9400	36.89	-13.35	23.54	46.00	-22.46	QP		*****	
5		407.3300	31.63	-9.07	22.56	46.00	-23.44	QP			
6	-	661.4700	32.27	-6.36	25.91	46.00	-20.09	QP		****	. 10-100-

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data:#46

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Shenzhen EMTEK Co., Ltd.

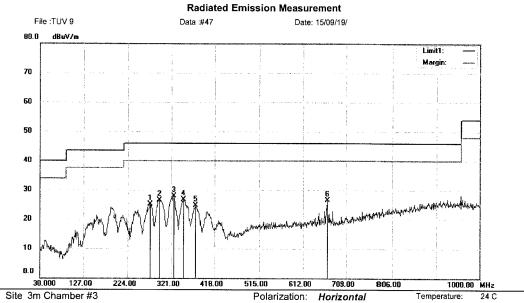
Bldg. 69, Majielong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5240

Note:

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		273.4700	37.82	-12.64	25.18	46.00	-20.82	QP			- 400
2		293.8400	40.02	-13.45	26.57	46.00	-19.43	QP	41.4		
3	*	326.8200	40.98	-13.15	27.83	46.00	-18.17	QP			
4		349.1300	38.43	-11.68	26.75	46.00	-19.25	QP			*****
5		376.2900	34.90	-10.13	24.77	46.00	-21.23	QP			
6		666.3200	32.77	-6.33	26.44	46.00	-19.56	QP			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV 9\Data :#47

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Shenzhen EMTEK Co., Ltd.

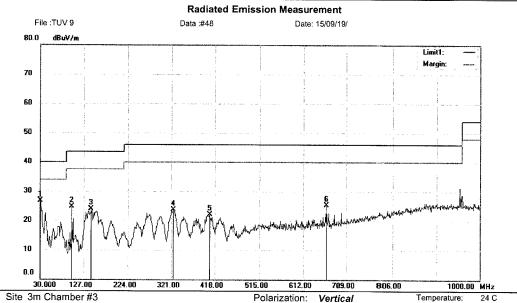
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www. emtek. com. cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.9700	42.92	-16.13	26.79	40.00	-13.21	QP		780 1	
2		100.8100	38.63	-14.02	24.61	43.50	-18.89	QP			
3		143.4900	41.75	-17.88	23.87	43.50	-19.63	QP			
4		324.8800	36.88	-13.25	23.63	46.00	-22.37	QP			WAS.
5		406.3600	31.19	-9.04	22.15	46.00	-23.85	QP	- WE		
6		664.3800	31.72	-6.34	25.38	46.00	-20.62	QP		10.2.	

*:Maximum data x:Over limit !:over margin

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Products

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Test Report No.

17052720 003

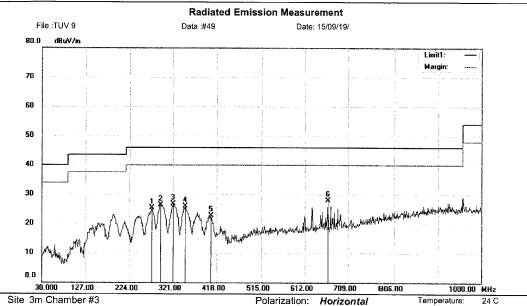
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Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China

www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
	_	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	2	273.4700	38.01	-12.64	25.37	46.00	-20.63	QP				
2	2	292.8700	39.75	-13.39	26.36	46.00	-19.64	QP				****
3	- 3	321.9700	40.08	-13.40	26.68	46.00	-19.32	QP	waw.		TWIN .	
4	3	348.1600	37.65	-11.77	25.88	46.00	-20.12	QP			~	
5	4	405.3900	31.81	-9.02	22.79	46.00	-23.21	QP				
6	* (64.3800	34.23	-6.34	27.89	46.00	-18.11	QP				

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV 9\Data :#49

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Shenzhen EMTEK Co., Ltd.

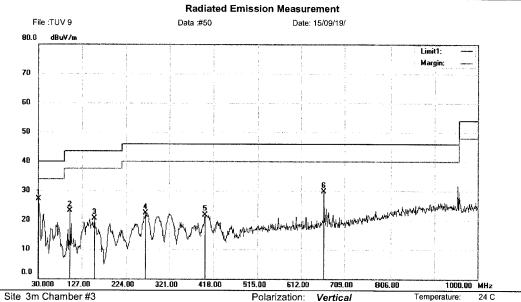
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.9700	43.28	-16.13	27.15	40.00	-12.85	QP	-		
2		100.8100	37.20	-14.02	23.18	43.50	-20.32	QP			****
3		154.1600	38.90	-18.36	20.54	43.50	-22.96	QP			· · · · · · · · · · · · · · · · · · ·
4		267.6500	34.96	-12.71	22.25	46.00	-23.75	QP		r.	*****
5		400.5400	30.50	-8.89	21.61	46.00	-24.39	QP			
6	-	663.4100	36.03	-6.35	29.68	46.00	-16.32	QP			

x:Over limit !:over margin *:Maximum data

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Products

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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

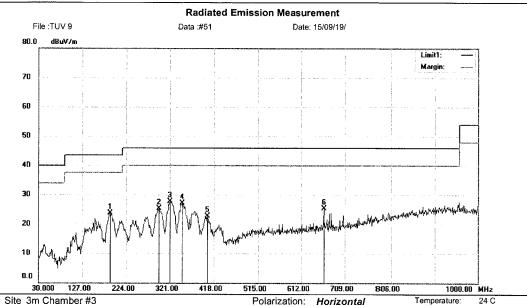
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5785

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		188.1100	41.29	-17.59	23.70	43.50	-19.80	QP		*****	11/2/2004
2		296.7500	38.87	-13.63	25.24	46.00	-20.76	QP			
3	*	321.9700	41.19	-13.40	27.79	46.00	-18.21	QP			
4		349.1300	38.81	-11.68	27.13	46.00	-18.87	QP		7-70	
5		404.4200	31.62	-8.99	22.63	46.00	-23.37	QP			
6		662.4400	31.71	-6.36	25.35	46.00	-20.65	QP			



Products

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Shenzhen EMTEK Co., Ltd.

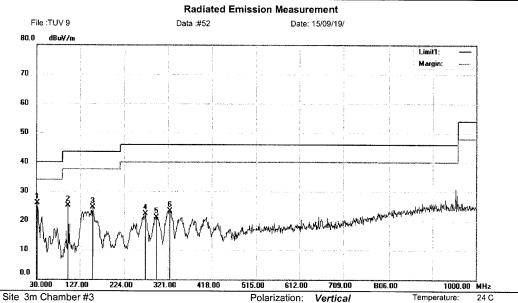
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	₫B	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	31.9400	41.73	-15.81	25.92	40.00	-14.08	QP			
2		100.8100	39.20	-14.02	25.18	43.50	-18.32	QP			
3		154.1600	42.82	-18.36	24.46	43.50	-19.04	QP			
4		270.5600	34.91	-12.68	22.23	46.00	-23.77	QP			
5		295.7800	34.77	-13.57	21.20	46.00	-24.80	QP			,
6		324.8800	36.60	-13.25	23.35	46.00	-22.65	QP			

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data: #52

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Products

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17052720 003

Test Report No.

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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

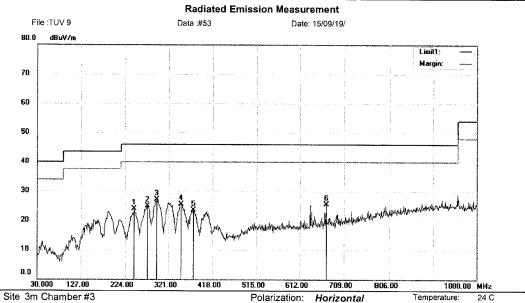
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.on Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	₫B	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	-	244.3700	37.45	-13.61	23.84	46.00	-22.16	QP			
2		273.4700	37.63	-12.64	24.99	46.00	-21.01	QP			
3	*	294.8100	40.69	-13.50	27.19	46.00	-18.81	QP			
4		348.1600	37.36	-11.77	25.59	46.00	-20.41	QP			
5		375.3200	33.63	-10.17	23.46	46.00	-22.54	QP			
6		670.2000	31.69	-6.28	25.41	46.00	-20.59	QP			er Versidos os



Products

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Shenzhen EMTEK Co., Ltd.

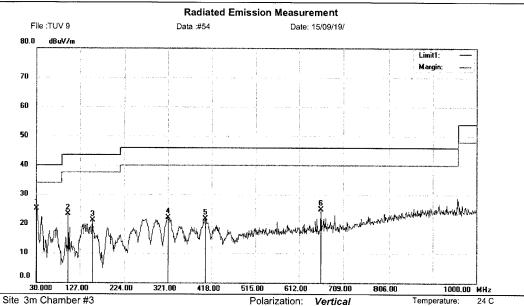
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Manshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.9700	41.15	-16.13	25.02	40.00	-14.98	QP			
2		100.8100	37.35	-14.02	23.33	43.50	-20.17	QP			774
3		154.1600	39.43	-18.36	21.07	43.50	-22.43	QP			W.W.
4		321.9700	35.50	-13.40	22.10	46.00	-23.90	QP		- mma	
5		404.4200	30.68	-8.99	21.69	46.00	-24.31	QP			* VA 1/4
6		660.5000	31.27	-6.38	24.89	46.00	-21.11	QP	1770		****

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data: #54

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Products

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17052720 003

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Test Report No.

Shenzhen EMTEK Co., Ltd.

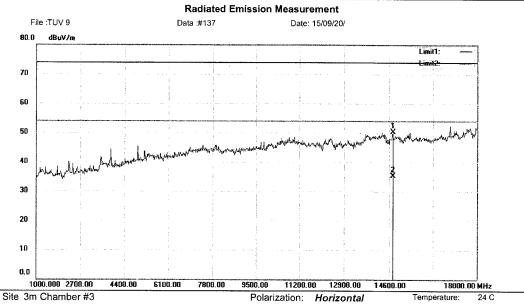
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	1	4736.00	56.74	-6.46	50.28	74.00	-23.72	peak			
2	* 1	4736.00	41.72	-6.46	35.26	54.00	-18.74	AVG			



Products

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Shenzhen EMTEK Co., Ltd.

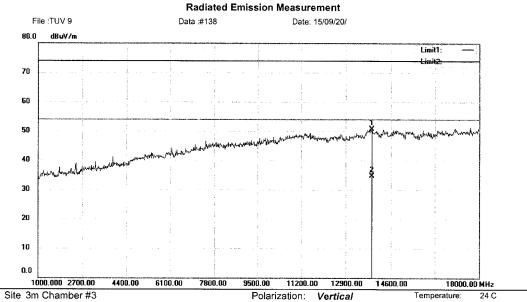
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		13903.00	56.54	-5.76	50.78	74.00	-23.22	peak			724
2	*	13903.00	40.43	-5.76	34.67	54.00	-19.33	AVG			



Products

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Shenzhen EMTEK Co., Ltd.

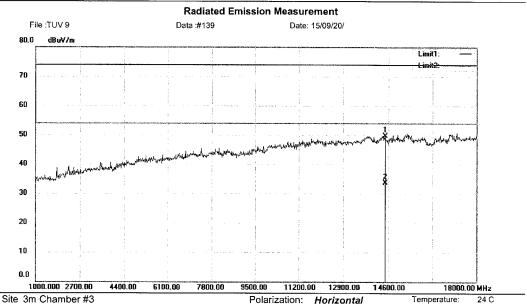
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel;+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5220

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Heigh t		
		MHz	dBu√	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	1	4464.00	55.81	-6.02	49.79	74.00	-24.21	peak			WIELD .
2	* 1	4464.00	39.63	-6.02	33.61	54.00	-20.39	AVG			

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Products

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Test Report No.

17052720 003

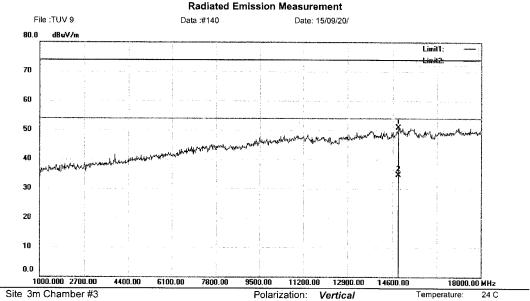
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Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14821.00	57.41	-6.59	50.82	74.00	-23.18	peak			1 Tay 2 Admini
2	*	14821.00	41.31	-6.59	34.72	54.00	-19.28	AVG		790.1.00	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data:#140

Page: 1



Products

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Test Report No.

17052720 003

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Shenzhen EMTEK Co., Ltd.

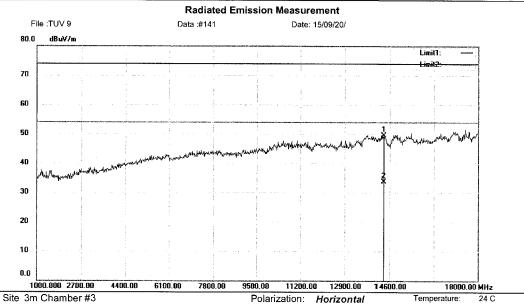
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	-	MHz	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14362.00	55.45	-5.86	49.59	74.00	-24.41	peak		-	
2	*	14362.00	39.60	-5.86	33.74	54.00	-20.26	AVG	*****		



Products

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Shenzhen EMTEK Co., Ltd.

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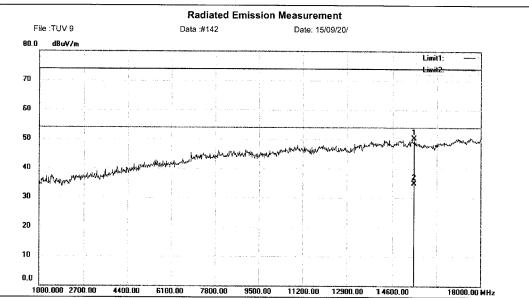


Temperature:

Humidity:

24 C

53 %



Polarization: Vertical

Power: AC 120V/60Hz

Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		15433.00	57.54	-7.25	50.29	74.00	-23.71	peak	7-7-4X	*****	
2	*	15433.00	42.08	-7.25	34.83	54.00	-19.17	AVG		***	



24 C

53 %

Temperature:

Humidity:

Operator: KK

Produkte

Products

Prüfbericht - Nr.:

Test Report No.

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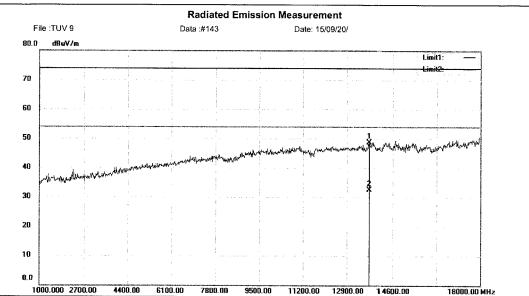
Shenzhen EMTEK Co., Ltd.

Polarization: Horizontal

Power: AC 120V/60Hz

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Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5745

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		13767.00	55.21	-6.42	48.79	74.00	-25.21	peak				
2	*	13767.00	38.93	-6.42	32.51	54.00	-21.49	AVG	1704-200	W-111-1-1		



Products

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Shenzhen EMTEK Co., Ltd.

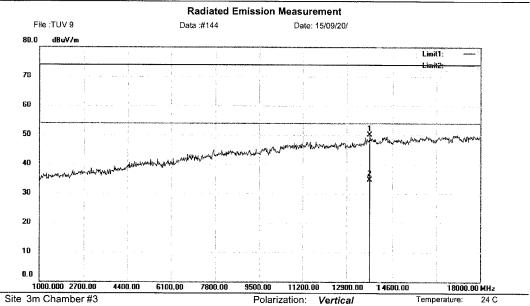
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		13801.00	56.31	-6.26	50.05	74.00	-23.95	peak			17 2000
2	*	13801.00	40.88	-6.26	34.62	54.00	-19.38	AVG	ACCUSED TO SECURITY OF THE PARTY OF THE PART	***	



Products

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Test Report No.

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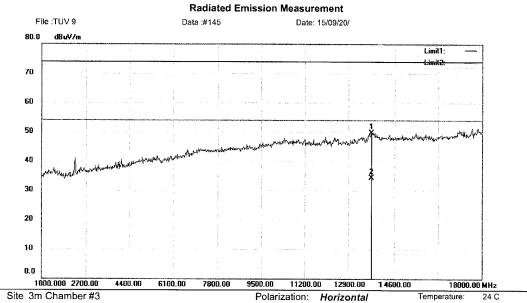
Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5785

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		13784.00	56.10	-6.34	49.76	74.00	-24.24	peak			
2	*	13784.00	40.57	-6.34	34.23	54.00	-19.77	AVG			



Products

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Test Report No.

Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

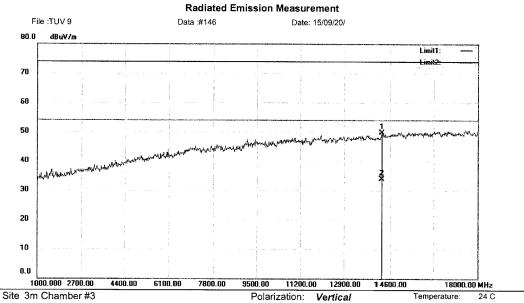
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

No.	М	ik. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	4.	MHz	dBu√	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		14260.00	0 55.39	-5.71	49.68	74.00	-24.32	peak			
2	*	14260.00	39.53	-5.71	33.82	54.00	-20.18	AVG		***	



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Shenzhen EMTEK Co., Ltd.

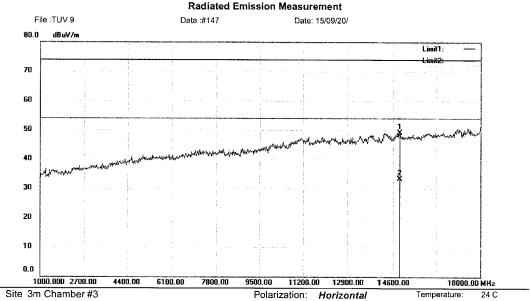
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guengdong, 518052 P.R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mł	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14	1855.00	55.75	-6.63	49.12	74.00	-24.88	peak			
2	*	14	1855.00	39.97	-6.63	33.34	54.00	-20.66	AVG			



Products

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Test Report No.

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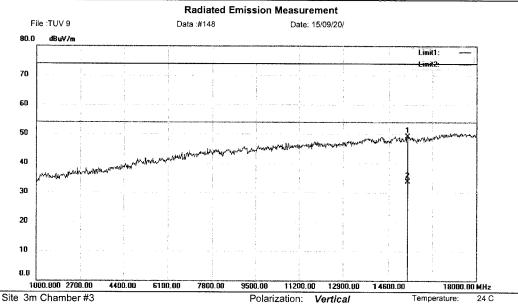
Shenzhen EMTEK Co., Ltd.

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	1	5331.00	56.23	-7.16	49.07	74.00	-24.93	peak			
2	* 1	5331.00	40.91	-7.16	33.75	54.00	-20.25	AVG	*****		

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV 9\Data:#148

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Products

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Shenzhen EMTEK Co., Ltd.

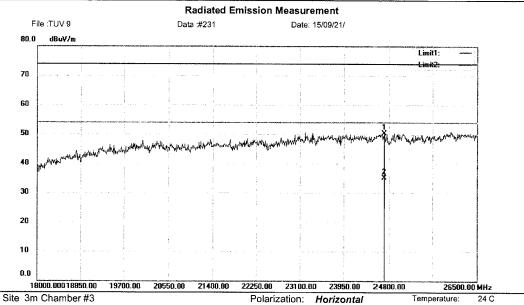
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5180

Note:

No.	Mŀ	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24698.00	87.41	-37.05	50.36	74.00	-23.64	peak	***************************************		
2	*	24698.00	72.20	-37.05	35.15	54.00	-18.85	AVG		*****	

*:Maximum data x:Over limit !:over margin

File:TUV 9\Data:#231

Page: 1



53 %

Humidity:

Operator: KK

Produkte

Products

Prüfbericht - Nr.:

17052720 003

Test Report No.

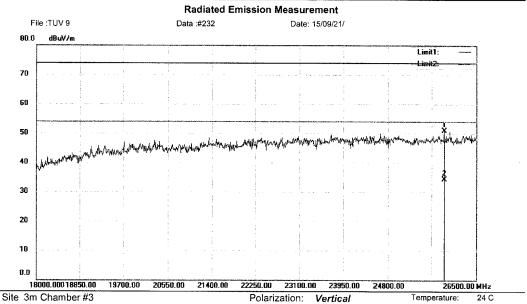
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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

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Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1	25888.00	86.92	-35.93	50.99	74.00	-23.01	peak			
2 *	25888.00	70.18	-35.93	34.25	54.00	-19.75	AVG			NA



Products

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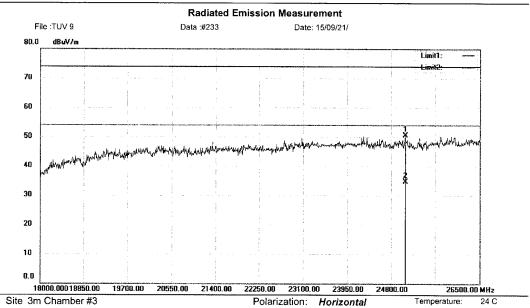
Shenzhen EMTEK Co., Ltd.

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5220

Note:

No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2	5072.00	87.46	-36.92	50.54	74.00	-23.46	peak			
2 '	* 25	5072.00	71.64	-36.92	34.72	54.00	-19.28	AVG		702.5	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data: #233

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24 C

53 %

Temperature:

Humidity:

Operator: KK

Produkte Products

Prüfbericht - Nr.:

17052720 003

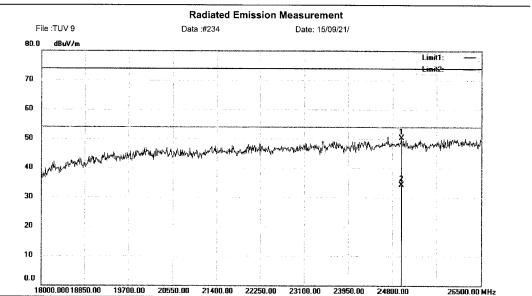
Test Report No.

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Shenzhen EMTEK Co., Ltd.

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel;+86-755-2695 4280 Fax:+86-755-2695 4282





Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5220

Note:

No.	Mi	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24970.00	87.37	-37.01	50.36	74.00	-23.64	peak			A
2	*	24970.00	71.38	-37.01	34.37	54.00	-19.63	AVG		*******	

Polarization: Vertical



Products

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17052720 003

Test Report No.

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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

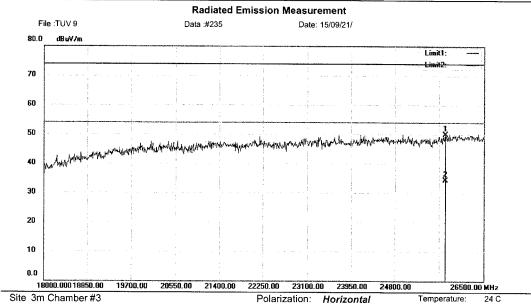
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	:	25769.00	86.01	-36.07	49.94	74.00	-24.06	peak			
2	* :	25769.00	70.31	-36.07	34.24	54.00	-19.76	AVG			-

x:Over limit !:over margin *:Maximum data

File: TUV 9\Data:#235

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17052720 003

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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

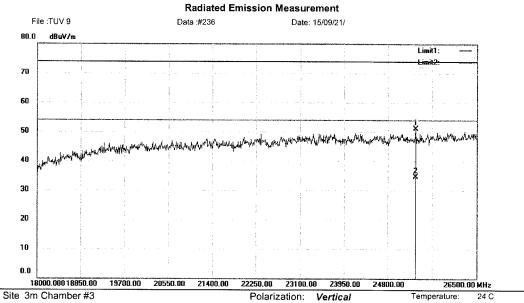
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel;+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

No.	Mi	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25335.50	87.63	-36.60	51.03	74.00	-22.97	peak			
2	*	25335.50	71.34	-36.60	34.74	54.00	-19.26	AVG			



Prüfbericht - Nr.:

17052720 003

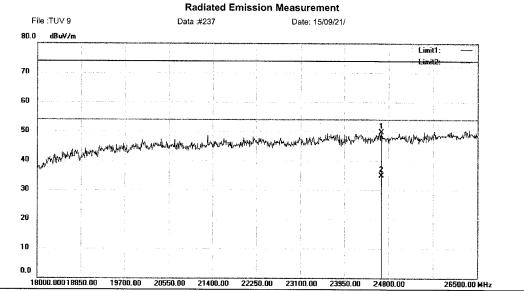
Test Report No.

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Shenzhen EMTEK Co., Ltd.

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Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

Mode: 11A 5745

Note:

Polarization: Horizontal Temperature: 24 C Power: AC 120V/60Hz Humidity: 53 %

M/N: MID1102-MA; DL1168A

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	******	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24655.50	86.75	-37.05	49.70	74.00	-24.30	peak	-		7970
2	*	24655.50	71.90	-37.05	34.85	54.00	-19.15	AVG			

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data:#237

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17052720 003

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Shenzhen EMTEK Co., Ltd.

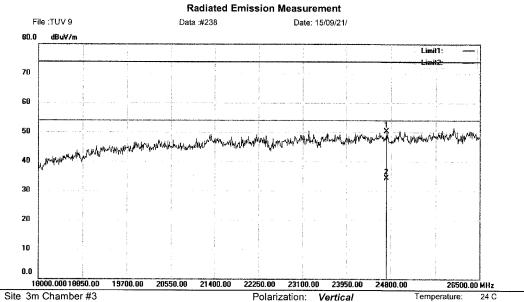
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24715.00	87.42	-37.04	50.38	74.00	-23.62	peak			.,
2	*	24715.00	71.30	-37.04	34.26	54.00	-19.74	AVG	-		



Products

Prüfbericht - Nr.:

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Test Report No.

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Shenzhen EMTEK Co., Ltd.

Power: AC 120V/60Hz

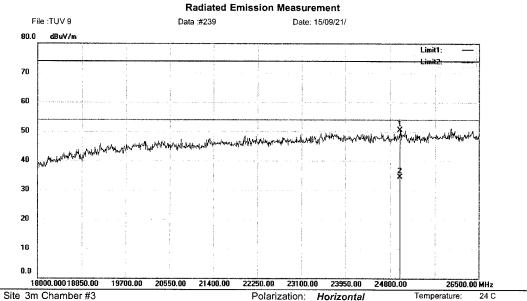
Bidg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

No.	М	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24987.00	87.58	-37.01	50.57	74.00	-23.43	peak	mar.ou		
2	*	24987.00	71.57	-37.01	34.56	54.00	-19.44	AVG			



Products

Prüfbericht - Nr.:

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Test Report No.

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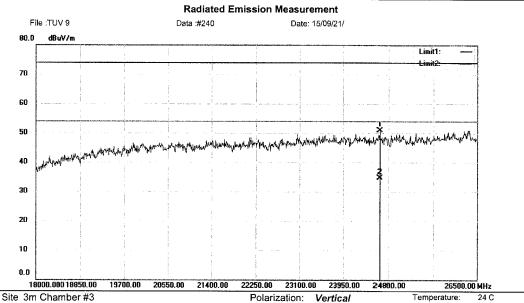
Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China

www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5785

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24630.00	87.98	-37.05	50.93	74.00	-23.07	peak			*****
2	*	24630.00	71.66	-37.05	34.61	54.00	-19.39				



Products

Prüfbericht - Nr.:

17052720 003

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Shenzhen EMTEK Co., Ltd.

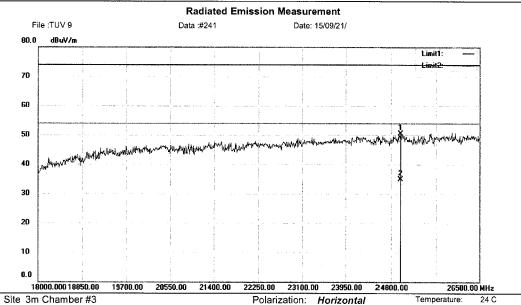
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5825

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24970.00	87.44	-37.01	50.43	74.00	-23.57	peak			7-000A
2	*	24970.00	71.83	-37.01	34.82	54.00	-19.18	AVG			

*:Maximum data

x:Over limit !:over margin

Operator: KK

File: TUV 9\Data:#241

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Products

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Shenzhen EMTEK Co., Ltd.

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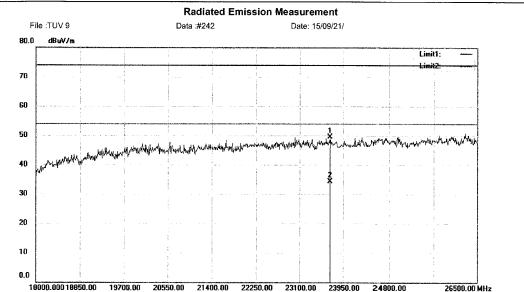


Temperature:

Humidity:

24 C

53 %



Polarization:

Power: AC 120V/60Hz

Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	М	k. Fre	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MH	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		23695.	00	86.94	-37.45	49.49	74.00	-24.51	peak				
2	*	23695.	00	71.77	-37.45	34.32	54.00	-19.68	AVG				

*:Maximum data x:Over limit !:over margin

File :TUV 9\Data :#242

Page: 1



Products

Prüfbericht - Nr.:

Test Report No.

17052720 003

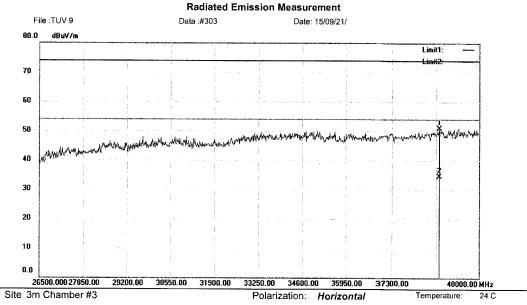
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5180

Note:

No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	~~~	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38744.50	85.53	-34.55	50.98	74.00	-23.02	peak	-		
2	*	38744.50	69.12	-34.55	34.57	54.00	-19.43	AVG			

Power: AC 120V/60Hz

*:Maximum data

File: TUV 9\Data:#303

x:Over limit !:over margin

Operator: KK



**Products** 

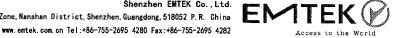
Prüfbericht - Nr.:

17052720 003

Test Report No.

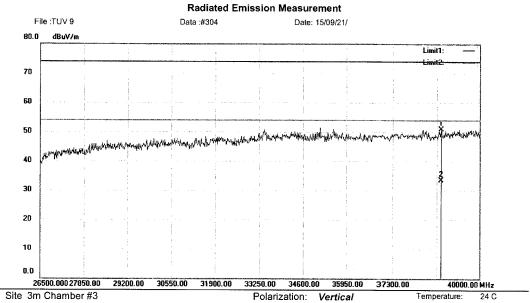
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Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China



Humidity:

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5180

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38785.00	85.36	-34.46	50.90	74.00	-23.10	peak		*	
2	*	38785.00	67.87	-34.46	33.41	54.00	-20.59	AVG			

Power: AC 120V/60Hz



**Products** 

Prüfbericht - Nr.:

Test Report No.

17052720 003

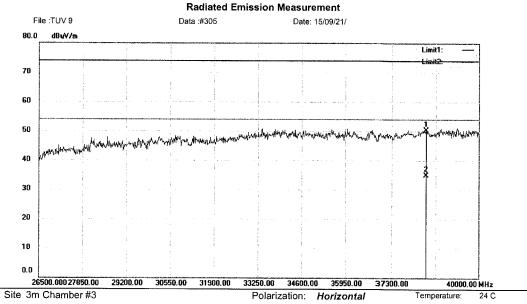
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Humidity:

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38353.00	85.69	-35.45	50.24	74.00	-23.76	peak			
2	*	38353.00	70.31	-35.45	34.86	54.00	-19.14	AVG			

Power: AC 120V/60Hz

*:Maximum data

x:Over limit !:over margin

Operator: KK

File: TUV 9\Data:#305



**Products** 

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Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. Ghina

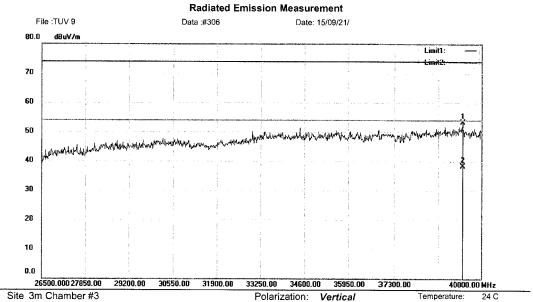
Power: AC 120V/60Hz



Humidity:

Operator: KK

53 %



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Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		39406.00	86.24	-33.03	53.21	74.00	-20.79	peak			
2	*	39406.00	71.38	-33.03	38.35	54.00	-15.65	AVG		1000	



**Products** 

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Shenzhen EMTEK Co., Ltd.

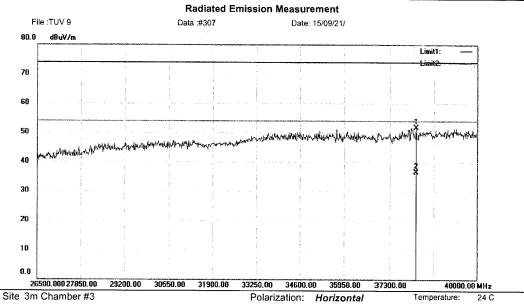
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Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5240

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38096.50	87.82	-36.04	51.78	74.00	-22.22	peak			
2	*	38096.50	72.61	-36.04	36.57	54.00	-17.43	AVG			

Power: AC 120V/60Hz



**Products** 

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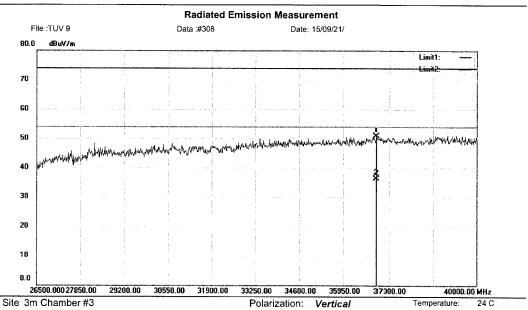
Shenzhen EMTEK Co., Ltd.

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Humidity:

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5240

Note:

No.	М	1k.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	ďBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		36	6935.50	88.18	-37.32	50.86	74.00	-23.14	peak			
2	*		6935.50	73.53	-37.32	36.21	54.00	-17.79	AVG			

Power: AC 120V/60Hz

*:Maximum data

x:Over limit !:over margin

Operator: KK

File: TUV 9\Data:#308



**Produkte Products** 

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Shenzhen EMTEK Co., Ltd.

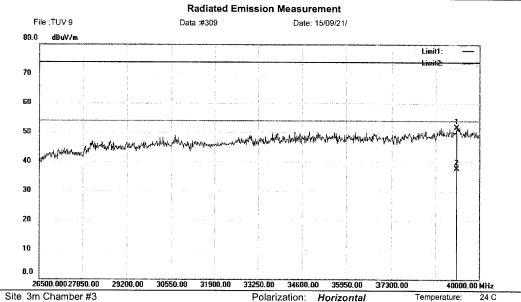
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	1,30,500
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		39298.00		-33.28	51.66	74.00	-22.34	peak			******
2	*	39298.00		-33.28	37.68	54.00	-16.32	AVG			****



**Products** 

Prüfbericht - Nr.:

Test Report No.

17052720 003

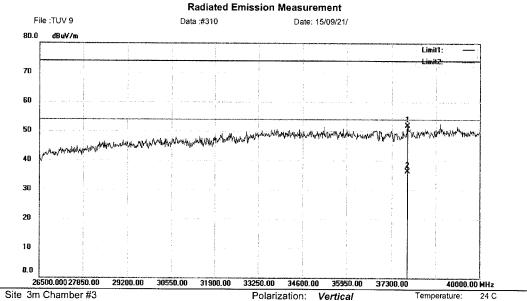
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Humidity:

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		37772.50	88.48	-36.49	51.99	74.00	-22.01	peak		***	
2	*	37772.50	72.81	-36.49	36.32	54.00	-17.68	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV 9\Data:#310

Page: 1

Operator: KK



**Products** 

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Shenzhen EMTEK Co., Ltd.

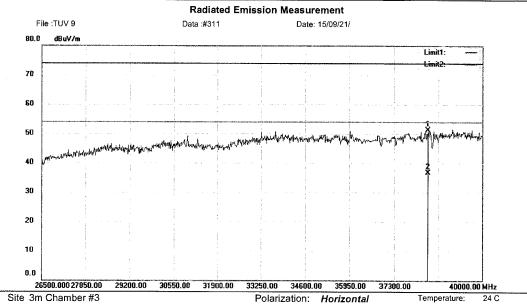
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38326.00	86.80	-35.51	51.29	74.00	-22.71	peak	AL ALL		7,000
2	*	38326.00	72.25	-35.51	36.74	54.00	-17.26	AVG			

x:Over limit !:over margin *:Maximum data

File: TUV 9\Data:#311

Page: 1

Operator: KK



**Products** 

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Test Report No.

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Shenzhen EMTEK Co., Ltd.

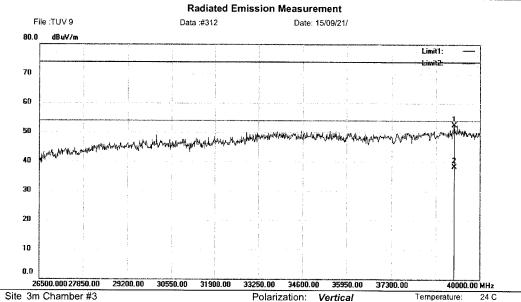
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5785

Note:

No.	Mł	k. Fred		Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	******
		MHz		dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		39217.0	0	86.01	-33.47	52.54	74.00	-21.46	peak			
2	*	39217.0	0	71.68	-33.47	38.21	54.00	-15.79	AVG			

*:Maximum data

File:TUV 9\Data:#312

x:Over limit !:over margin

Operator: KK



**Products** 

Prüfbericht - Nr.:

Test Report No.

17052720 003

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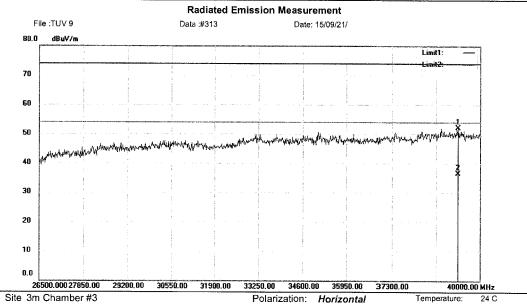
Shenzhen EMTEK Co., Ltd. Bidg. 69, Majielong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China

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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		39325.00	85.35	-33.22	52.13	74.00	-21.87	peak			
2	*	39325.00	69.76	-33.22	36.54	54.00	-17.46	AVG			

Power: AC 120V/60Hz

*:Maximum data

File: TUV 9\Data:#313

x:Over limit !:over margin

Operator: KK



**Products** 

Prüfbericht - Nr.:

17052720 003

Test Report No.

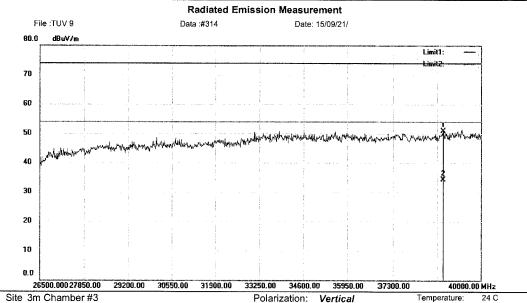
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Humidity:



Site 3m Chamber #3

Limit: (RE)FCC PART 15.407

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38839.00	85.22	-34.33	50.89	74.00	-23.11	peak			
2	*	38839.00	68.61	-34.33	34.28	54.00	-19.72	AVG			

Power: AC 120V/60Hz

x:Over limit !:over margin *:Maximum data

File: TUV 9\Data:#314

Page: 1

Operator: KK



**Products** 

Prüfbericht - Nr.:

17052720 003

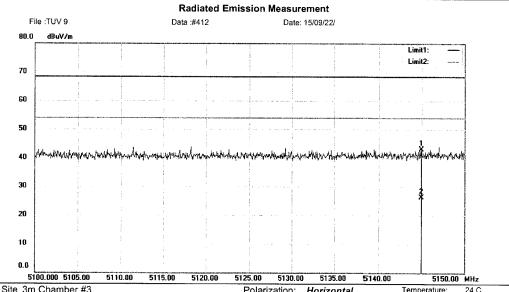
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Test Report No.

# **Test Plot of Band Edge**

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Site 3m Chamber #3

Polarization: Horizontal Power: AC 120V/60Hz

Temperature:

Humidity: 53 %

Limit: (RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk		Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5144.950	57.45	-14.25	43.20	68.20	-25.00	peak			- In Co.
2		5144.950	40.48	-14.25	26.23	54.00	-27.77	AVG			

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data:#412

Page: 1

Operator: KK



**Products** 

Prüfbericht - Nr.:

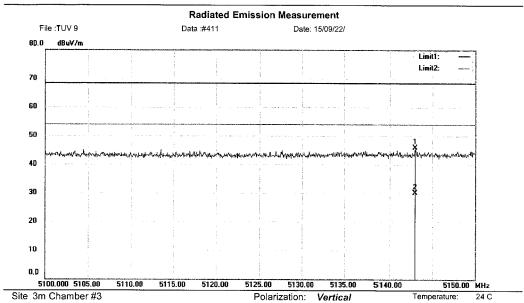
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Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5142.950	60.15	-14.26	45.89	68.20	-22.31	peak			MILK.
2		5142.950	44.38	-14.26	30.12	54.00	-23.88	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV 9\Data:#411

Page: 1

Operator: KK

Humidity:

53 %



**Produkte Products** 

Prüfbericht - Nr.:

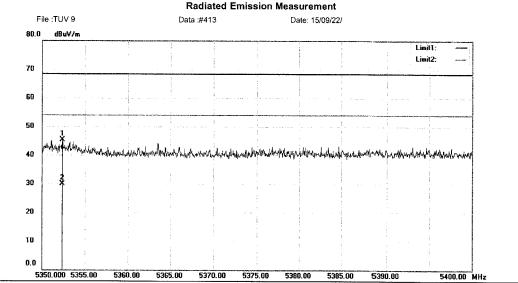
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Site 3m Chamber #3

Polarization: Horizontal

Temperature:

Power: AC 120V/60Hz

24 C

Operator: KK

Humidity: 53 %

Limit: ( RE)FCC PART 15.407 Peak EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	5352.350	59.30	-14.00	45.30	68.20	-22.90	peak	-		
2		5352.350	43.86	-14.00	29.86	54.00	-24.14	AVG			



**Products** 

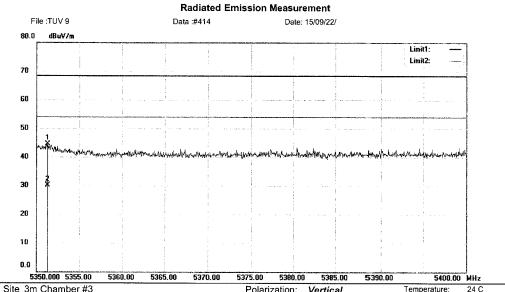
Prüfbericht - Nr.:

Test Report No.

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Site 3m Chamber #3

Polarization: Vertical

Temperature:

Limit: ( RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity:

Operator: KK

53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	*	5351.300	58.45	-14.00	44.45	68.20	-23.75	peak				
2		5351.300	44.12	-14.00	30.12	54.00	-23.88	AVG				



**Products** 

Prüfbericht - Nr.:

Test Report No.

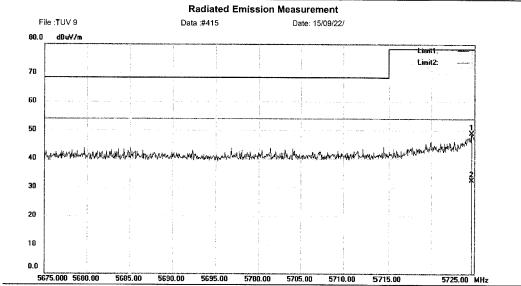
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Site 3m Chamber #3

Polarization: Horizontal

Temperature: 24 C

Operator: KK

Limit: ( RE)FCC PART 15.407 Peak EUT: MID

Power: AC 120V/60Hz

Humidity: 53 %

M/N: MID1102-MA; DL1168A

Mode:11A 5745

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	₫BuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5724.700	62.45	-13.56	48.89	78.20	-29.31	peak		***************************************	
2	*	5724.700	46.07	-13.56	32.51	54.00	-21.49	AVG			



Products

Prüfbericht - Nr.:

17052720 003

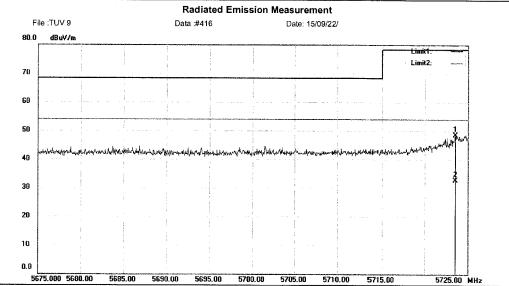
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Test Report No.

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Site 3m Chamber #3

Polarization: Vertical
Power: AC 120V/60Hz

Temperature: 24 C

53 %

Humidity:

Operator: KK

Limit: ( RE)FCC PART 15.407 Peak EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5723.550	62.16	-13.56	48.60	78.20	-29.60	peak			
2	*	5723.550	46.31	-13.56	32.75	54.00	-21.25	AVG			



**Products** 

Prüfbericht - Nr.:

Test Report No.

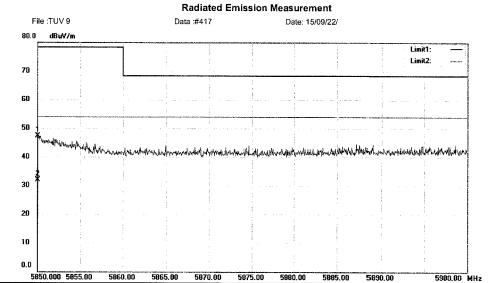
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Site 3m Chamber #3

Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 24 C

53 %

Humidity:

Operator: KK

Limit: (RE)FCC PART 15.407 Peak EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

No.	Mk		Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5850.050	60.65	-13.41	47.24	78.20	-30.96	peak			
2	*	5850.050	45.36	-13.41	31.95	54.00	-22.05	AVG			



**Products** 

Prüfbericht - Nr.:

Test Report No.

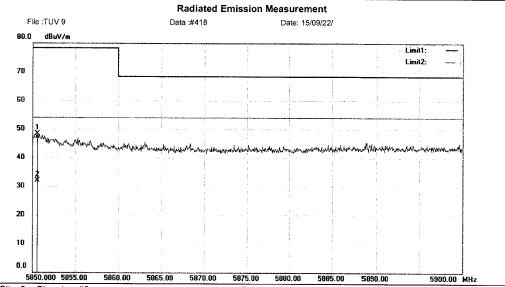
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Site 3m Chamber #3

Polarization: Vertical

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5850.550	61.70	-13.41	48.29	78.20	-29.91	peak			
2	*	5850.550	45.27	-13.41	31.86	54.00	-22.14	AVG			



**Products** 

Prüfbericht - Nr.:

17052720 003

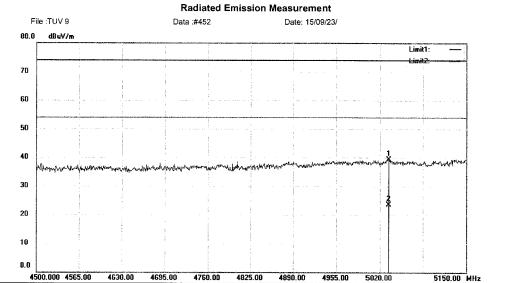
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Site 3m Chamber #3

Polarization: Horizontal

Power: AC 120V/60Hz

Temperature:

Operator: KK

24 C Humidity: 53 %

Limit: (RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		5033.650	59.25	-19.97	39.28	74.00	-34.72	peak			
2	*	5033.650	43.45	-19.97	23.48	54.00	-30.52	AVG			



**Products** 

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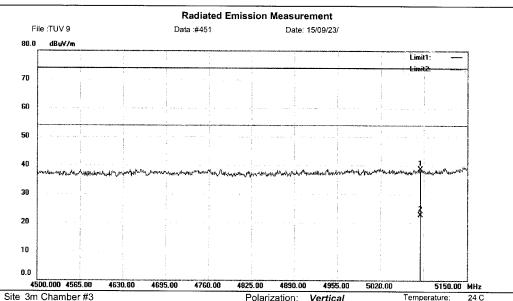


24 C

53 %

Humidity:

Operator: KK



Polarization: Vertical

Power: AC 120V/60Hz

Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5080.450	58.67	-19.95	38.72	74.00	-35.28	peak	7,000,0		
2	*	5080.450	42.70	-19.95	22.75	54.00	-31.25	AVG			



**Products** 

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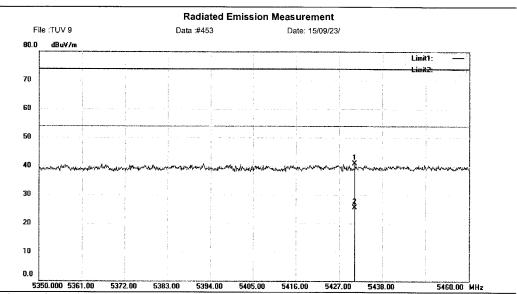
Temperature:

Humidity:

Operator: KK

24 C

53 %



Site 3m Chamber #3

Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5431.070	60.69	-19.76	40.93	74.00	-33.07	peak			
2	*	5431.070	45.17	-19.76	25.41	54.00	-28.59	AVG		×	

Polarization: Horizontal

Power: AC 120V/60Hz



**Products** 

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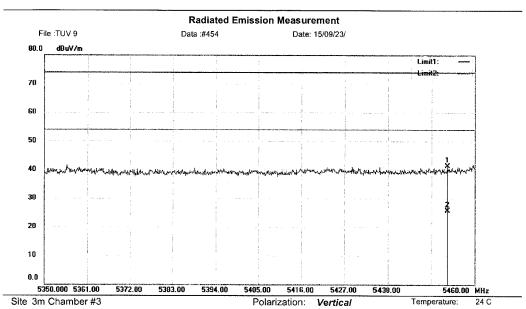
Power: AC 120V/60Hz

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Humidity:

53 %



Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5180

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5453.070	61.03	-19.75	41.28	74.00	-32.72	peak			
2	*	5453.070	45.48	-19.75	25.73	54.00	-28.27	AVG			

x:Over limit !:over margin *:Maximum data

File:TUV 9\Data:#454

Page: 1

Operator: KK



**Products** 

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Test Report No.

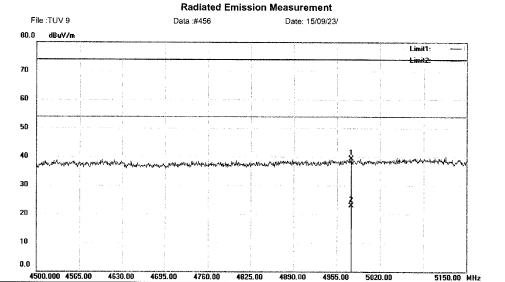
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Site 3m Chamber #3

Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 24 C

53 %

Humidity:

Operator: KK

Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

No. M	М	k. Fr	eq.	Reading Level	Correct Factor		Limit dBuV/m	Over	Detector		Table Degree	
		Mi	MHz	dBuV	dB						degree	Comment
1		4977.1	00	59.81	-20.46	39.35	74.00	-34.65	peak			
2	*	4977.1	00	43.32	-20.46	22.86	54.00	-31.14	AVG		****	



**Products** 

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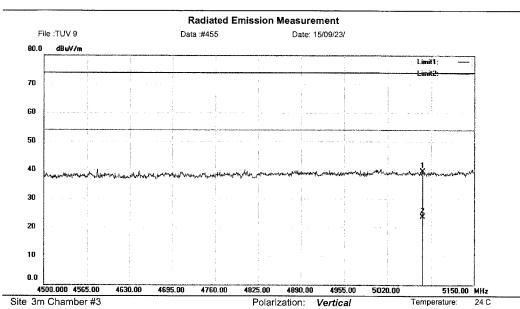
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Humidity:

53 %



Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No. Mk.		k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		507	72.000	59.43	-19.95	39.48	74.00	-34.52	peak			
2	*	507	72.000	43.57	-19.95	23.62	54.00	-30.38	AVG	-		

Power: AC 120V/60Hz

*:Maximum data

x:Over limit !:over margin

Operator: KK

File: TUV 9\Data:#455



#### **Produkte Products**

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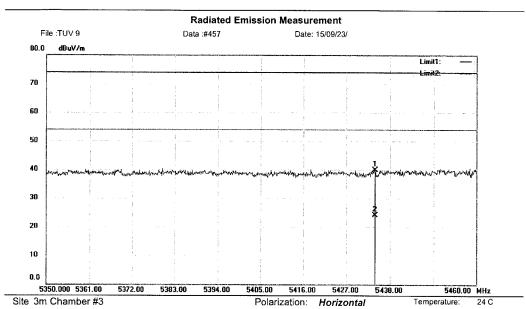
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Humidity:

53 %



Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	МІ	k. Fi	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		М	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	****
1		5434.	370	59.68	-19.75	39.93	74.00	-34.07	peak	-			
2	*	5434.	370	43.90	-19.75	24.15	54.00	-29.85	AVG	www.			

Power: AC 120V/60Hz

x:Over limit !:over margin *:Maximum data

File: TUV 9\Data:#457

Page: 1

Operator: KK



**Products** 

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Power: AC 120V/60Hz

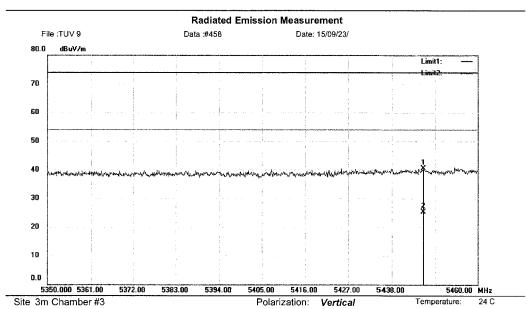
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Humidity:

Operator: KK

53 %



Limit: ( RE)FCC PART 15.407 Peak

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Deg <b>r</b> ee		
			MHz	₫BuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	17.73.04
1		54	445.920	60.20	-19.75	40.45	74.00	-33.55	peak		V WWW.		
2	*	54	445.920	44.99	-19.75	25.24	54.00	-28.76	AVG				

*:Maximum data x:Over limit !:over margin

File:TUV 9\Data:#458



**Products** 

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#### 5.1.7 Conducted emissions

**RESULT: Pass** 

Date of testing 2015-09-23 Test standard FCC Part 15.207

FCC part 15.407(b)(6)

: : : Basic standard ANSI C63.10: 2013 Frequency range 0.15 - 30MHzFCC Part 15.207 Limits Kind of test site Shield room

**Test setup** 

AC 120V, 60Hz

Operation Mode : Earthing Not Connected

Ambient temperature : **26**℃ Relative humidity 55% Atmospheric pressure : 101kPa

For details refer to following test plot.



**Produkte Products** 

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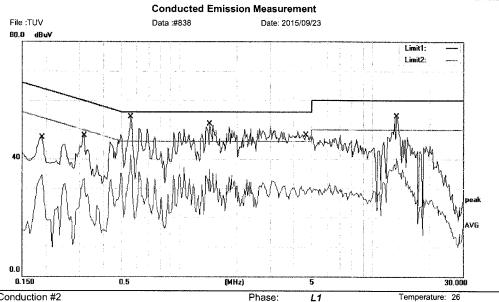
Test Report No.

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Humidity:

55 %



Power: AC 120V/60Hz

Site Conduction #2

Limit: (CE)FCC PART 15 class C_QP

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: WIFI 5G

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1900	47.25	0.00	47.25	64.04	-16.79	QP	
2	0.1900	34.46	0.00	34.46	54.04	-19.58	AVG	
3	0.3150	48.00	0.00	48.00	59.84	-11.84	QP	
4	0.3150	33.39	0.00	33.39	49.84	-16.45	AVG	-
5	0.5600	50.70	0.00	50.70	56.00	-5.30	QP	
6 *	0.5600	41.29	0.00	41.29	46.00	-4.71	AVG	
7	1.4350	49.20	0.00	49.20	56.00	-6.80	QP	
8	1.4350	36.49	0.00	36.49	46.00	-9.51	AVG	
9	4.6400	48.14	0.00	48.14	56.00	-7.86	QP	
10	4.6400	30.65	0.00	30.65	46.00	-15.35	AVG	
11	13.4750	54.55	0.00	54.55	60.00	-5.45	QP	
12	13.4750	40.29	0.00	40.29	50.00	-9.71	AVG	

*:Maximum data

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

File :TUV\Data :#838



**Products** 

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Test Report No.

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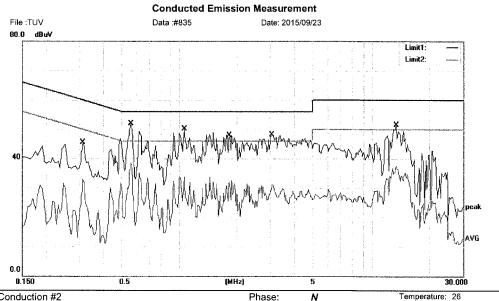
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Humidity:

55 %



Power: AC 120V/60Hz

Site Conduction #2

Limit: (CE)FCC PART 15 class C_QP

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: WIFI 5G

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3100	45.56	0.00	45.56	59.97	-14.41	QP	
2		0.3100	32.93	0.00	32.93	49.97	-17.04	AVG	
3	*	0.5600	48.60	0.00	48.60	56.00	<b>-</b> 7.40	QP	
4		0.5600	38.54	0.00	38.54	46.00	-7.46	AVG	
5		1.0550	48.30	0.00	48.30	56.00	-7.70	QP	
6		1.0550	33.66	0.00	33.66	46.00	-12.34	AVG	
7		1.8100	45.90	0.00	45.90	56.00	-10.10	QP	
8		1.8100	32.43	0.00	32.43	46.00	-13.57	AVG	
9		3.0600	46.80	0.00	46.80	56.00	-9.20	QP	
10		3.0600	31.10	0.00	31.10	46.00	-14.90	AVG	
11		13.3500	51.45	0.00	51.45	60.00	-8.55	QP	
12		13.3500	37.49	0.00	37.49	50.00	-12.51	AVG	

*:Maximum data

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

File :TUV\Data :#835



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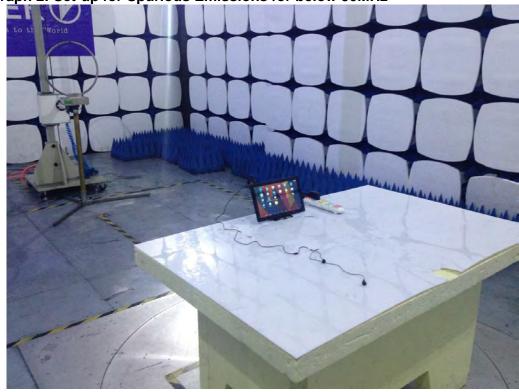
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# 6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



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





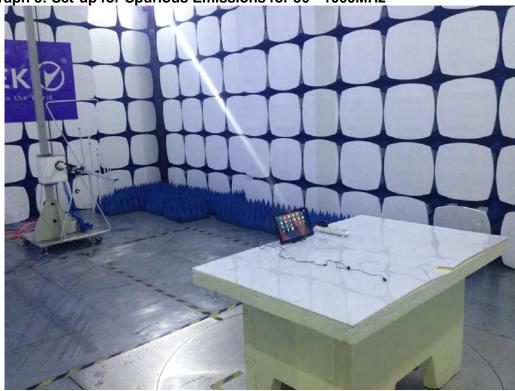
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Test Report No.

Photograph 3: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 4: Set-up for Spurious Emissions for 1 - 18GHz





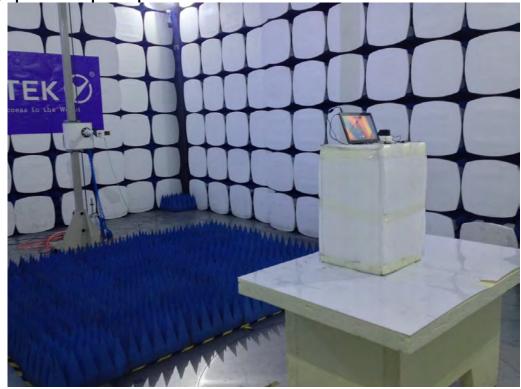
**Products** 

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Photograph 5: Set-up for Spurious Emissions for 18 - 40GHz





# Products

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