

Prüfbericht-Nr.: <i>Test Report No.:</i>	17051839 004	Auftrags-Nr.: <i>Order No.:</i>	164042267	Seite 1 von 45 Page 1 of 45	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	30.07.2015		
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co., Ltd. RM1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP STREET, KWUN TONG, HONG KONG				
Prüfgegenstand: <i>Test item:</i>	10.1" Wi-Fi Android™ Tablet				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	DL1018A, MID1016-MA				
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification/Verification				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 ICES-003 Issue 5 August 2012				
Wareneingangsdatum: <i>Date of receipt:</i>	10.08.2015				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000243804-007				
Prüfzeitraum: <i>Testing period:</i>	17.08.2015 - 24.08.2015				
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen EMTEK 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:			
11.09.2015 Lin Lin/Project Manager		11.09.2015 Owen Tian/Senior Project Manager			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

v04

TEST SUMMARY

5.1.1 CONDUCTED EMISSIONS

RESULT: Pass

5.2.1 RADIATED EMISSION

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.

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
Radiated 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
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

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

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
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.

2.7 Status of Facility Used for Testing

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

2.8 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

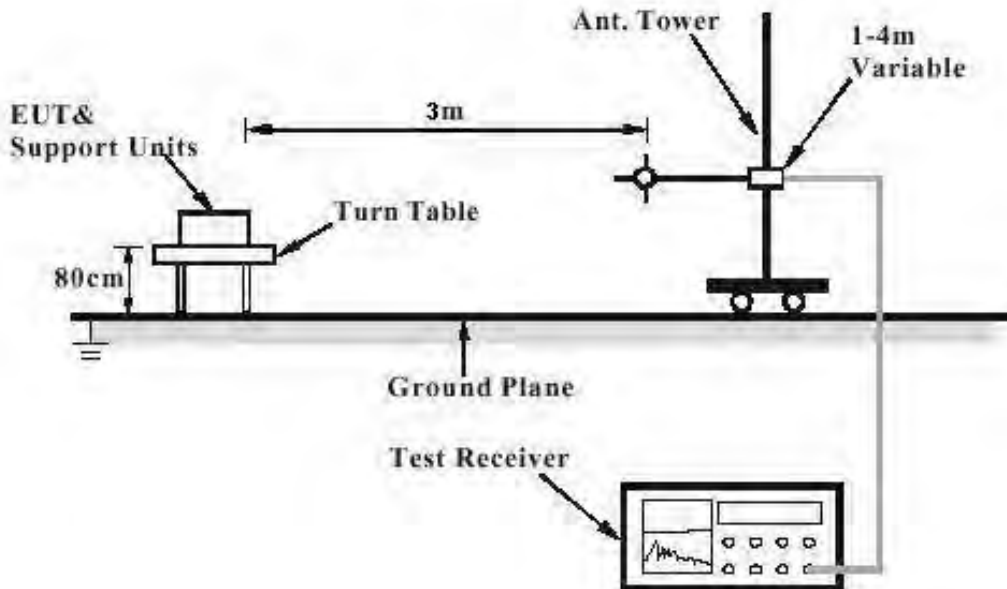
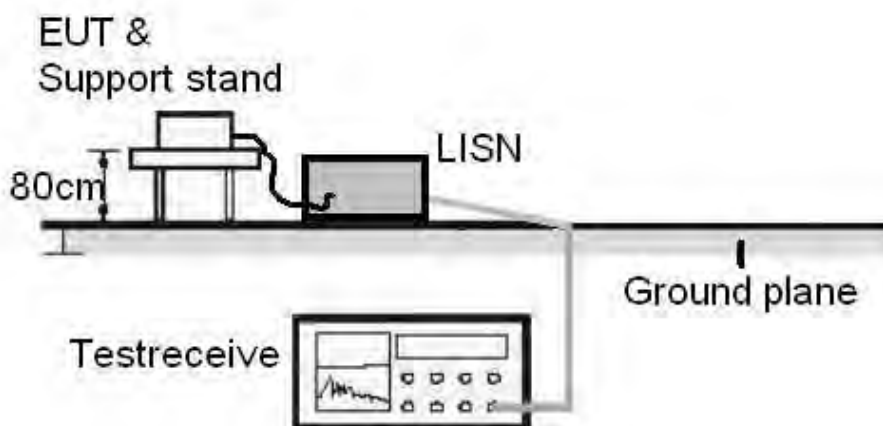


Diagram of Measurement Equipment Configuration for Conduction Measurement



3. General Product Information

3.1 Product Function and Intended Use

The EUTs are 10.1" 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	10.1" Wi-Fi Android™ Tablet
Type Designation	DL1018A, MID1016-MA
FCC ID	XMF-MID1016
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, with charging
 - 1. Recording mode
 - 2. Playing mode
- B. Connected to PC
- 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

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. According to clause 3.1, all tests were applied on model MID1016-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
Earphone port	2 cores, non-shielded port, 3m	Audio Output
Microphone	2 cores, non-shielded port, 3m	Audio Input
TF card slot	---	---

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.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emissions

RESULT:**Pass**

Date of testing : 2015-08-24
Test standard : FCC Part 15.107 (a)
ICES-003 Issue 5 August 2012
Basic standard : ANSI C63.4: 2014
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.107(a)
ICES-003 Issue 5 August 2012
Kind of test site : Shield room

Test setup

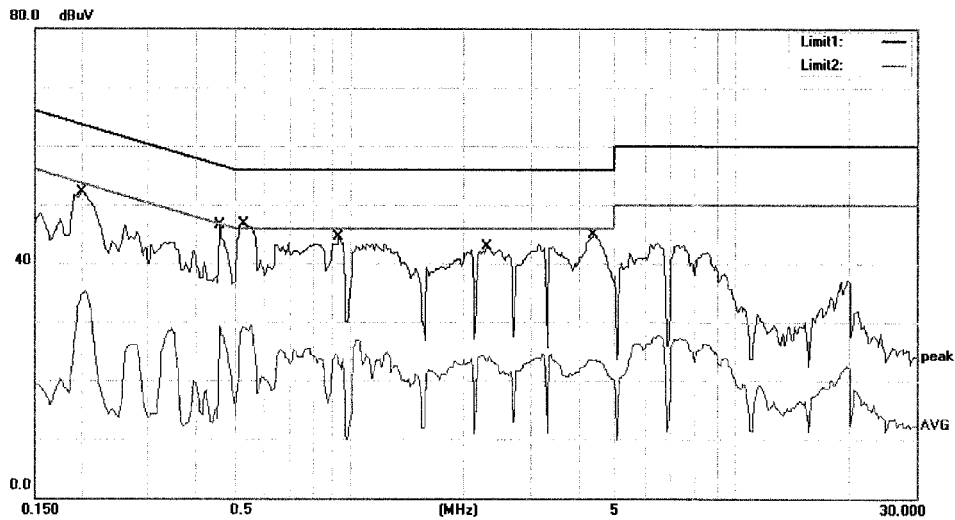
Input Voltage : AC 120V, 60Hz
Operation Mode : A, B
Earthing : Not Connected
Ambient temperature : 26°C
Relative humidity : 55%
Atmospheric pressure : 101kPa

For details refer to following test plot.

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Conducted Emission Measurement

File :TUV Data :#763 Date: 2015/08/24



Site Conduction #2 Phase: **L1** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: VIDEO PLAY(MEMORY)
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2000	52.13	0.00	52.13	63.61	-11.48	QP	
2		0.2000	35.22	0.00	35.22	53.61	-18.39	AVG	
3		0.4600	46.44	0.00	46.44	56.69	-10.25	QP	
4		0.4600	29.28	0.00	29.28	46.69	-17.41	AVG	
5	*	0.5300	46.76	0.00	46.76	56.00	-9.24	QP	
6		0.5300	29.47	0.00	29.47	46.00	-16.53	AVG	
7		0.9350	44.50	0.00	44.50	56.00	-11.50	QP	
8		0.9350	24.58	0.00	24.58	46.00	-21.42	AVG	
9		2.3050	42.83	0.00	42.83	56.00	-13.17	QP	
10		2.3050	24.32	0.00	24.32	46.00	-21.68	AVG	
11		4.4050	44.86	0.00	44.86	56.00	-11.14	QP	
12		4.4050	23.53	0.00	23.53	46.00	-22.47	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

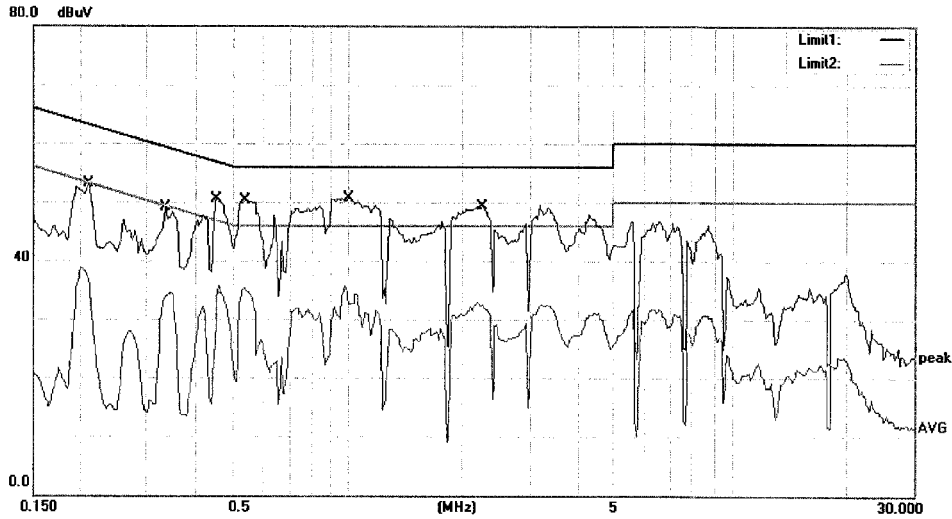
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Conducted Emission Measurement

File :TUV Data :#764 Date: 2015/08/24



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: VIDEO PLAY(MEMORY)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2100	53.14	0.00	53.14	63.21	-10.07	QP	
2		0.2100	38.81	0.00	38.81	53.21	-14.40	AVG	
3		0.3350	49.18	0.00	49.18	59.33	-10.15	QP	
4		0.3350	34.54	0.00	34.54	49.33	-14.79	AVG	
5		0.4550	50.51	0.00	50.51	56.78	-6.27	QP	
6		0.4550	35.72	0.00	35.72	46.78	-11.06	AVG	
7		0.5350	50.26	0.00	50.26	56.00	-5.74	QP	
8		0.5350	35.28	0.00	35.28	46.00	-10.72	AVG	
9	*	1.0000	50.75	0.00	50.75	56.00	-5.25	QP	
10		1.0000	35.68	0.00	35.68	46.00	-10.32	AVG	
11		2.2500	49.26	0.00	49.26	56.00	-6.74	QP	
12		2.2500	32.92	0.00	32.92	46.00	-13.08	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

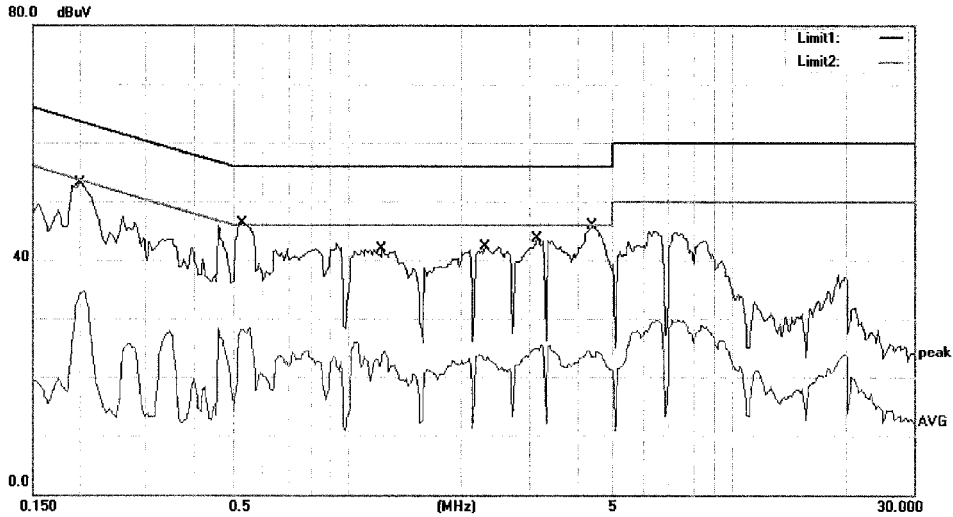
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Conducted Emission Measurement

File :TUV Data :#765 Date: 2015/08/24



Site Conduction #2 Phase: **L1** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: VIDEO PLAY(SD CARD)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2000	53.13	0.00	53.13	63.61	-10.48	QP	
2		0.2000	34.72	0.00	34.72	53.61	-18.89	AVG	
3	*	0.5300	46.26	0.00	46.26	56.00	-9.74	QP	
4		0.5300	28.47	0.00	28.47	46.00	-17.53	AVG	
5		1.2350	41.86	0.00	41.86	56.00	-14.14	QP	
6		1.2350	24.48	0.00	24.48	46.00	-21.52	AVG	
7		2.3050	42.33	0.00	42.33	56.00	-13.67	QP	
8		2.3050	23.82	0.00	23.82	46.00	-22.18	AVG	
9		3.1500	43.79	0.00	43.79	56.00	-12.21	QP	
10		3.1500	25.53	0.00	25.53	46.00	-20.47	AVG	
11		4.4050	45.86	0.00	45.86	56.00	-10.14	QP	
12		4.4050	24.53	0.00	24.53	46.00	-21.47	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

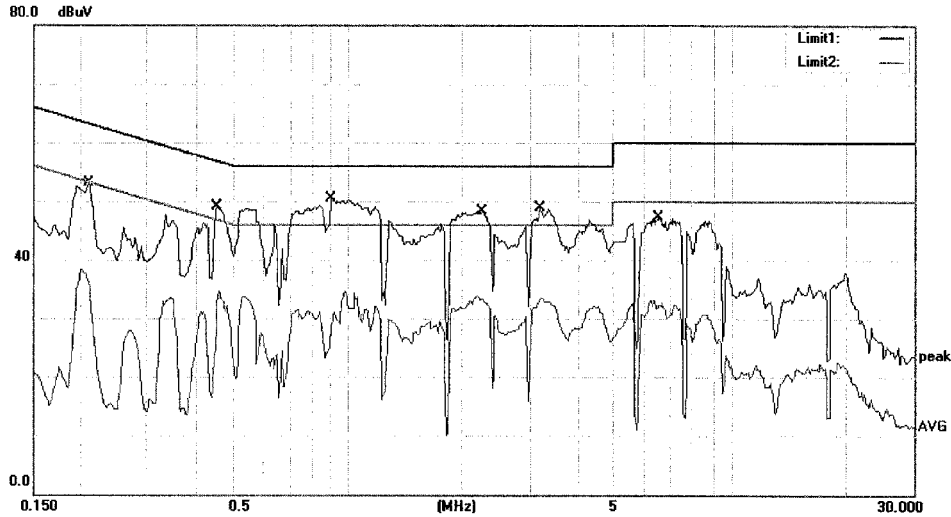
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Conducted Emission Measurement

File :TUV Data :#766 Date: 2015/08/24



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: VIDEO PLAY(SD CARD)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2100	53.14	0.00	53.14	63.21	-10.07	QP	
2		0.2100	38.31	0.00	38.31	53.21	-14.90	AVG	
3		0.4550	49.01	0.00	49.01	56.78	-7.77	QP	
4		0.4550	34.72	0.00	34.72	46.78	-12.06	AVG	
5	*	0.9000	50.55	0.00	50.55	56.00	-5.45	QP	
6		0.9000	34.68	0.00	34.68	46.00	-11.32	AVG	
7		2.2500	48.26	0.00	48.26	56.00	-7.74	QP	
8		2.2500	33.92	0.00	33.92	46.00	-12.08	AVG	
9		3.1750	48.95	0.00	48.95	56.00	-7.05	QP	
10		3.1750	33.46	0.00	33.46	46.00	-12.54	AVG	
11		6.5900	47.27	0.00	47.27	60.00	-12.73	QP	
12		6.5900	33.14	0.00	33.14	50.00	-16.86	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

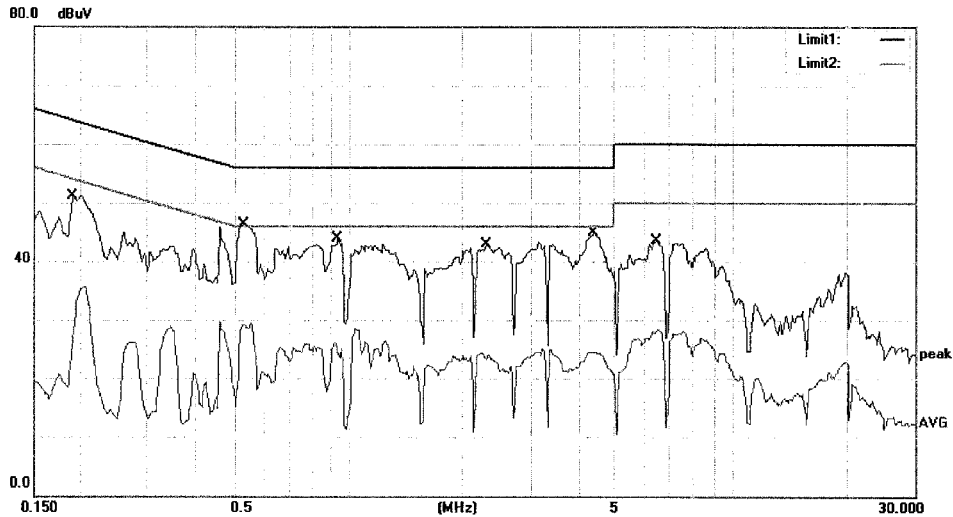
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Conducted Emission Measurement

File :TUV Data :#769 Date: 2015/08/24



Site Conduction #2 Phase: **L1** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: Camear recording(front)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1900	51.15	0.00	51.15	64.04	-12.89	QP	
2		0.1900	35.72	0.00	35.72	54.04	-18.32	AVG	
3	*	0.5300	46.26	0.00	46.26	56.00	-9.74	QP	
4		0.5300	29.78	0.00	29.78	46.00	-16.22	AVG	
5		0.9350	44.00	0.00	44.00	56.00	-12.00	QP	
6		0.9350	28.43	0.00	28.43	46.00	-17.57	AVG	
7		2.3050	42.83	0.00	42.83	56.00	-13.17	QP	
8		2.3050	25.03	0.00	25.03	46.00	-20.97	AVG	
9		4.4050	44.86	0.00	44.86	56.00	-11.14	QP	
10		4.4050	24.53	0.00	24.53	46.00	-21.47	AVG	
11		6.4600	43.44	0.00	43.44	60.00	-16.56	QP	
12		6.4600	28.25	0.00	28.25	50.00	-21.75	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

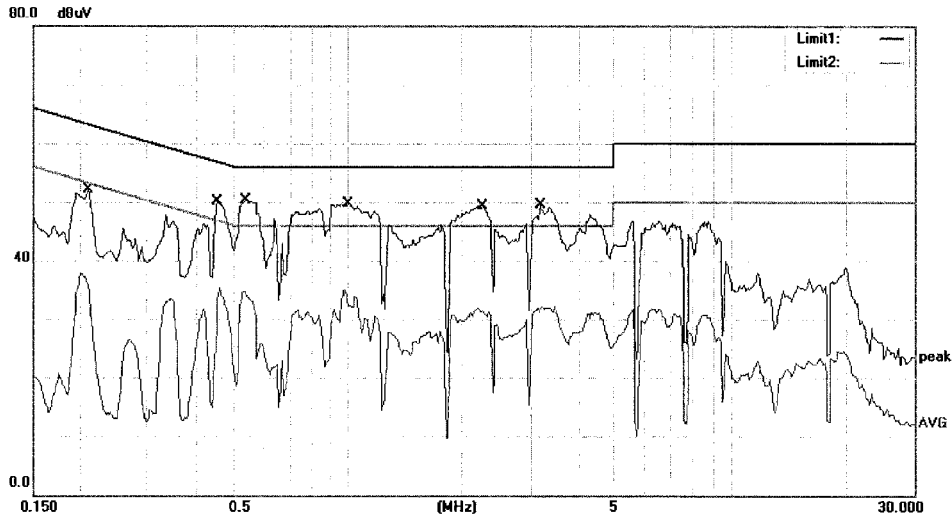
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Conducted Emission Measurement

File :TUV Data :#770 Date: 2015/08/24



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: Camear recording(front)
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2100	52.14	0.00	52.14	63.21	-11.07	QP	
2	0.2100	37.81	0.00	37.81	53.21	-15.40	AVG	
3	0.4550	50.01	0.00	50.01	56.78	-6.77	QP	
4	0.4550	35.22	0.00	35.22	46.78	-11.56	AVG	
5 *	0.5350	50.26	0.00	50.26	56.00	-5.74	QP	
6	0.5350	34.78	0.00	34.78	46.00	-11.22	AVG	
7	1.0000	49.75	0.00	49.75	56.00	-6.25	QP	
8	1.0000	35.18	0.00	35.18	46.00	-10.82	AVG	
9	2.2500	49.26	0.00	49.26	56.00	-6.74	QP	
10	2.2500	31.75	0.00	31.75	46.00	-14.25	AVG	
11	3.1750	49.45	0.00	49.45	56.00	-6.55	QP	
12	3.1750	32.10	0.00	32.10	46.00	-13.90	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

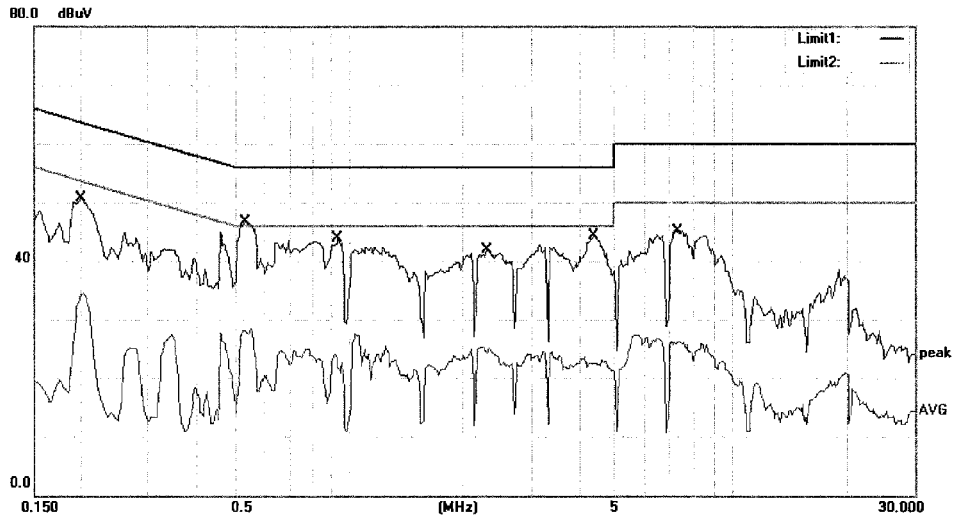
File :TUV\Data :#770

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Conducted Emission Measurement

File :TUV Data :#767 Date: 2015/08/24



Site Conduction #2 Phase: **L1** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: Camear recording(rear)
 Note:

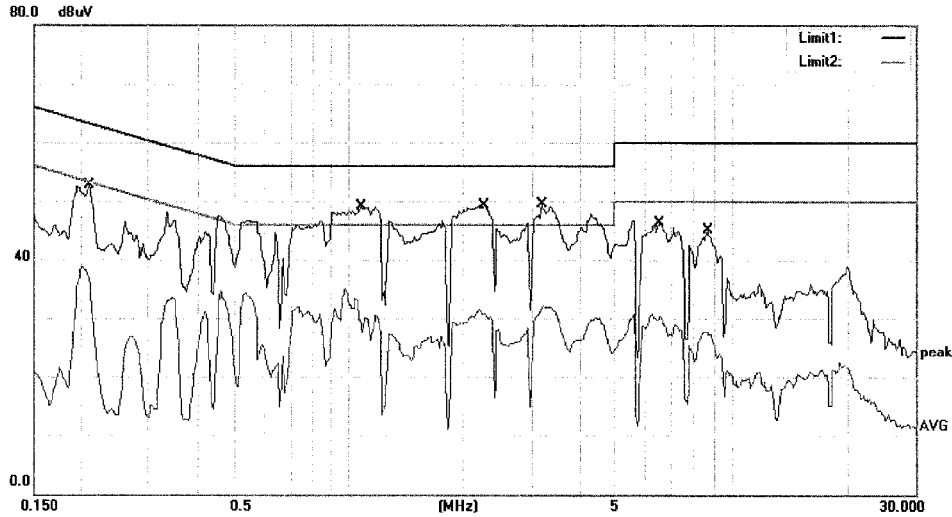
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2000	50.63	0.00	50.63	63.61	-12.98	QP	
2		0.2000	34.53	0.00	34.53	53.61	-19.08	AVG	
3	*	0.5321	46.73	0.00	46.73	56.00	-9.27	QP	
4		0.5321	28.47	0.00	28.47	46.00	-17.53	AVG	
5		0.9350	44.00	0.00	44.00	56.00	-12.00	QP	
6		0.9350	27.43	0.00	27.43	46.00	-18.57	AVG	
7		2.3050	41.83	0.00	41.83	56.00	-14.17	QP	
8		2.3050	25.32	0.00	25.32	46.00	-20.68	AVG	
9		4.4050	44.36	0.00	44.36	56.00	-11.64	QP	
10		4.4050	23.44	0.00	23.44	46.00	-22.56	AVG	
11		7.3300	45.18	0.00	45.18	60.00	-14.82	QP	
12		7.3300	26.75	0.00	26.75	50.00	-23.25	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

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Conducted Emission Measurement

File: TUV Data: #768 Date: 2015/08/24



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID 1016-MA
 Mode: Cemeat recording(rear)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2100	52.64	0.00	52.64	63.21	-10.57	QP	
2		0.2100	38.81	0.00	38.81	53.21	-14.40	AVG	
3		1.0766	49.10	0.00	49.10	56.00	-6.90	QP	
4		1.0766	35.18	0.00	35.18	46.00	-10.82	AVG	
5		2.2500	49.26	0.00	49.26	56.00	-6.74	QP	
6		2.2500	31.42	0.00	31.42	46.00	-14.58	AVG	
7	*	3.1750	49.45	0.00	49.45	56.00	-6.55	QP	
8		3.1750	32.02	0.00	32.02	46.00	-13.98	AVG	
9		6.5900	46.27	0.00	46.27	60.00	-13.73	QP	
10		6.5900	30.62	0.00	30.62	50.00	-19.38	AVG	
11		8.6000	45.04	0.00	45.04	60.00	-14.96	QP	
12		8.6000	27.78	0.00	27.78	50.00	-22.22	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

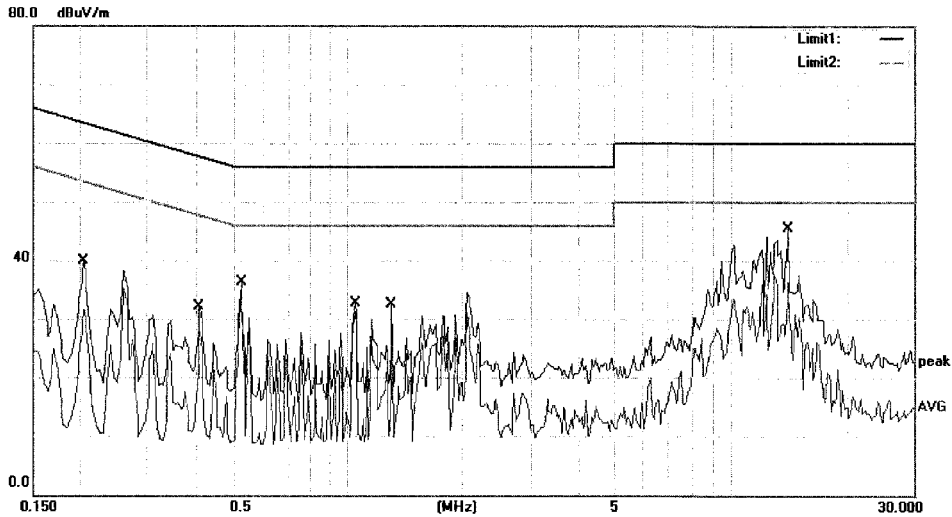
File: TUV\Data: #768

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Conducted Emission Measurement

File :TUV Data :#779 Date: 2015/08/24



Site Conduction #2 Phase: **L1** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID1016-MA
 Mode: Connect to PC
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1		0.2050	39.85	0.00	39.85	63.41	-23.56	QP	
2		0.2050	31.54	0.00	31.54	53.41	-21.87	AVG	
3		0.4100	32.18	0.00	32.18	57.65	-25.47	QP	
4		0.4100	28.33	0.00	28.33	47.65	-19.32	AVG	
5		0.5250	36.28	0.00	36.28	56.00	-19.72	QP	
6	*	0.5250	35.47	0.00	35.47	46.00	-10.53	AVG	
7		1.0500	32.74	0.00	32.74	56.00	-23.26	QP	
8		1.0500	31.30	0.00	31.30	46.00	-14.70	AVG	
9		1.3100	32.46	0.00	32.46	56.00	-23.54	QP	
10		1.3100	30.68	0.00	30.68	46.00	-15.32	AVG	
11		14.0750	45.58	0.00	45.58	60.00	-14.42	QP	
12		14.0750	36.21	0.00	36.21	50.00	-13.79	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Neo

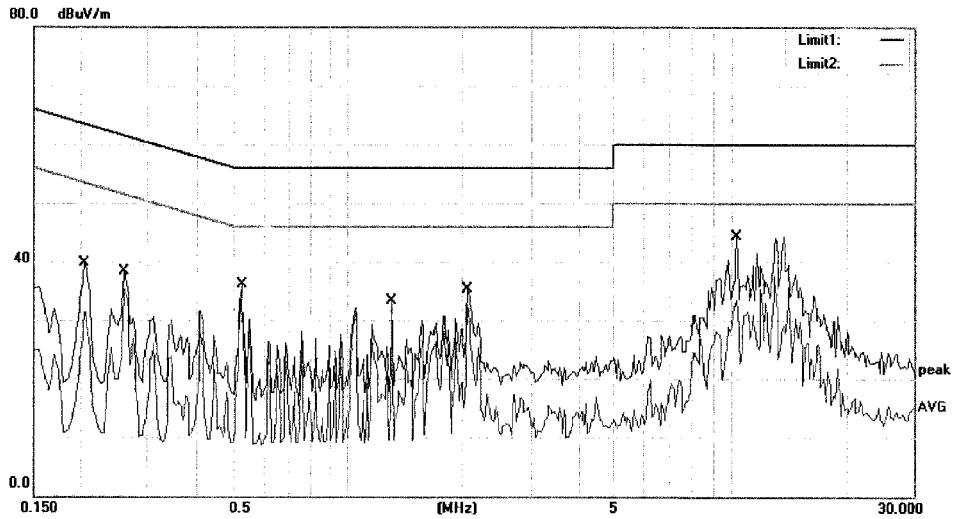
File :TUV\Data :#779

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Conducted Emission Measurement

File :TUV Data :#780 Date: 2015/08/24



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID1016-MA
 Mode: Connect to PC
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1		0.2050	39.63	0.00	39.63	63.41	-23.78	QP	
2		0.2050	31.30	0.00	31.30	53.41	-22.11	AVG	
3		0.2600	38.30	0.00	38.30	61.43	-23.13	QP	
4		0.2600	35.40	0.00	35.40	51.43	-16.03	AVG	
5		0.5250	36.20	0.00	36.20	56.00	-19.80	QP	
6	*	0.5250	35.47	0.00	35.47	46.00	-10.53	AVG	
7		1.3100	33.36	0.00	33.36	56.00	-22.64	QP	
8		1.3100	30.99	0.00	30.99	46.00	-15.01	AVG	
9		2.0600	35.34	0.00	35.34	56.00	-20.66	QP	
10		2.0600	32.79	0.00	32.79	46.00	-13.21	AVG	
11		10.3000	44.25	0.00	44.25	60.00	-15.75	QP	
12		10.3000	33.54	0.00	33.54	50.00	-16.46	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Neo

File :TUV\Data :#780

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Prüfbericht - Nr.: 17051839 004
Test Report No.Seite 22 von 45
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5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission

RESULT:**Pass**

Date of testing : 2015-08-19
Test standard : FCC Part 15.109 (a)
ICES-003 Issue 5 August 2012
Test procedure : ANSI C63.4: 2014
Frequency range : 30 - 18000MHz
Equipment Classification : Class B
Limits : FCC Part 15.109(a)
ICES-003 Issue 5 August 2012
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

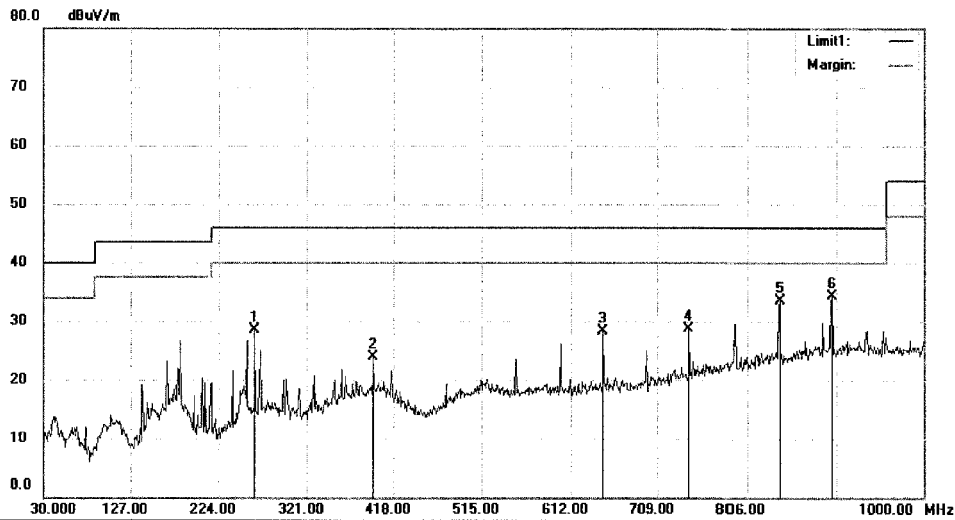
Input Voltage : AC 120V, 60Hz
Operation mode : A, B
Earthing : Not connected
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101kPa

For details refer to following test plot.

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Radiated Emission Measurement

File :TUV 8 Data #309 Date: 15/08/17/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Camera(Front)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		263.7700	41.25	-12.75	28.50	46.00	-17.50	QP		
2		395.6900	32.95	-9.11	23.84	46.00	-22.16	QP		
3		647.8900	34.79	-6.51	28.28	46.00	-17.72	QP		
4		744.8900	33.19	-4.58	28.61	46.00	-17.39	QP		
5		840.9200	35.47	-1.95	33.52	46.00	-12.48	QP		
6	*	898.1500	34.99	-0.66	34.33	46.00	-11.67	QP		

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

Operator: KK

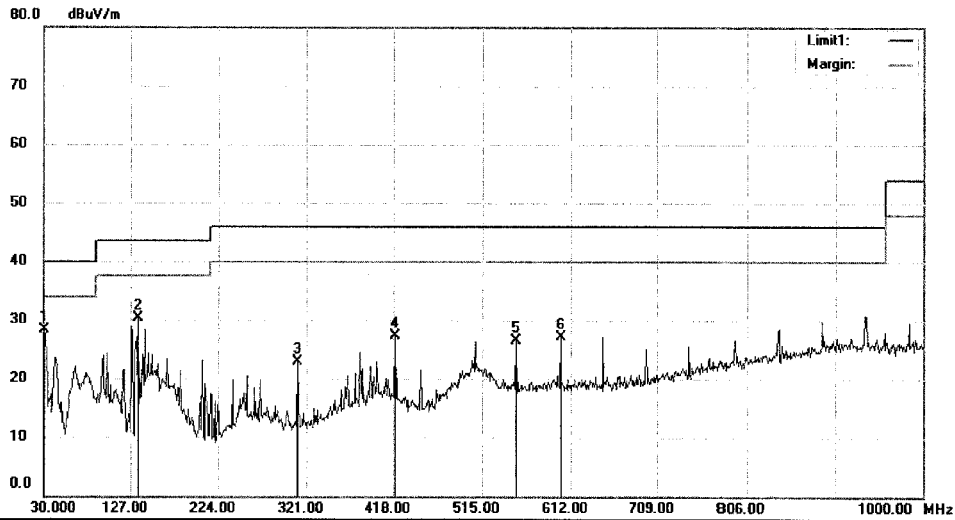
File :TUV 8\Data :#309

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Radiated Emission Measurement

File :TUV 8 Data #308 Date: 15/08/17



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Camera(Front)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.9700	44.49	-16.13	28.36	40.00	-11.64	QP		
2		135.7300	47.86	-17.56	30.30	43.50	-13.20	QP		
3		311.3000	36.62	-13.64	22.98	46.00	-23.02	QP		
4		419.9400	36.80	-9.43	27.37	46.00	-18.63	QP		
5		551.8600	33.87	-7.38	26.49	46.00	-19.51	QP		
6		600.3600	34.16	-6.99	27.17	46.00	-18.83	QP		

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

Operator: KK

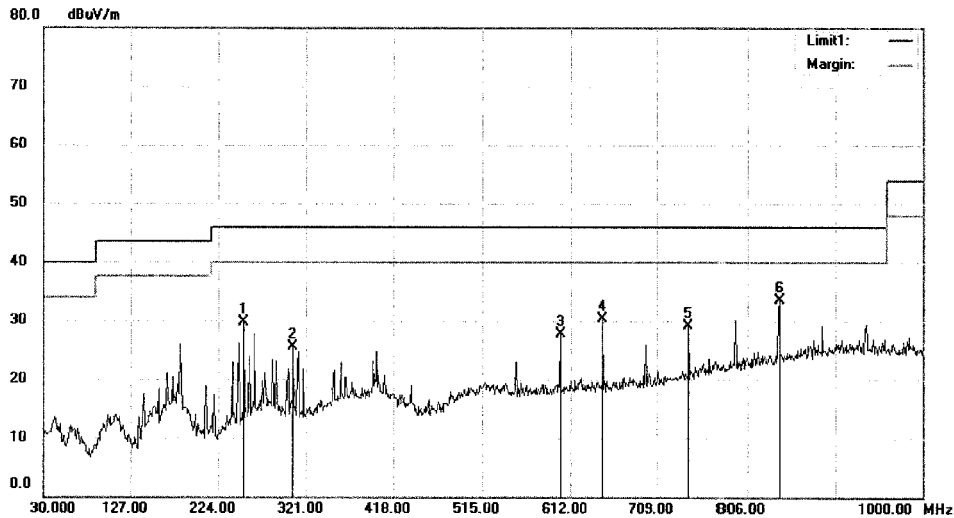
File :TUV 8\Data :#308

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Radiated Emission Measurement

File :TUV 8 Data #310 Date: 15/08/17/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode: Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		252.1300	42.91	-13.20	29.71	46.00	-16.29	QP		
2		306.4500	39.18	-13.72	25.46	46.00	-20.54	QP		
3		600.3600	34.75	-6.99	27.76	46.00	-18.24	QP		
4		647.8900	36.80	-6.51	30.29	46.00	-15.71	QP		
5		744.8900	33.74	-4.58	29.16	46.00	-16.84	QP		
6	*	840.9200	35.50	-1.95	33.55	46.00	-12.45	QP		

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

Operator: KK

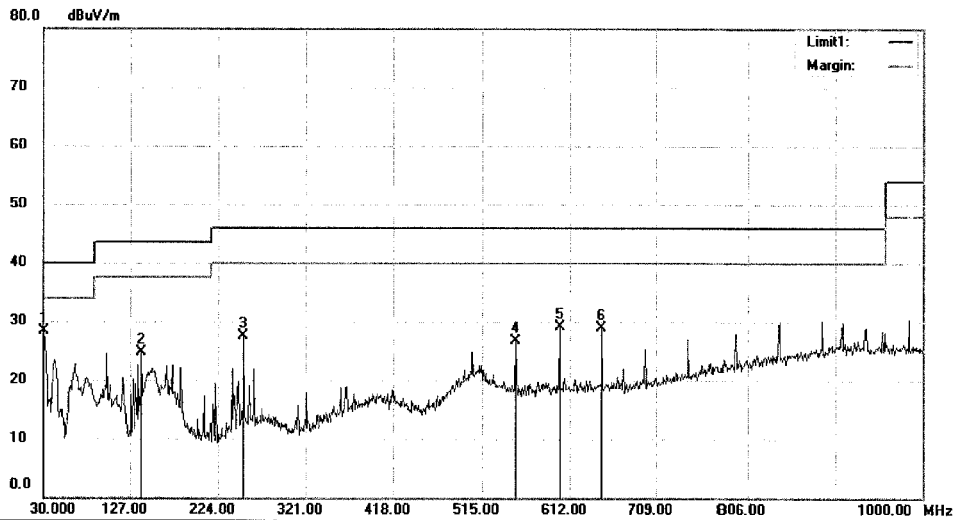
File :TUV 8\Data #310

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Radiated Emission Measurement

File :TUV 8 Data :#311 Date: 15/08/17/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.9700	44.37	-16.13	28.24	40.00	-11.76	QP		
2		139.6100	42.46	-17.76	24.70	43.50	-18.80	QP		
3		252.1300	40.68	-13.20	27.48	46.00	-18.52	QP		
4		551.8600	34.01	-7.38	26.63	46.00	-19.37	QP		
5		600.3600	36.11	-6.99	29.12	46.00	-16.88	QP		
6		647.8900	35.33	-6.51	28.82	46.00	-17.18	QP		

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

Operator: KK

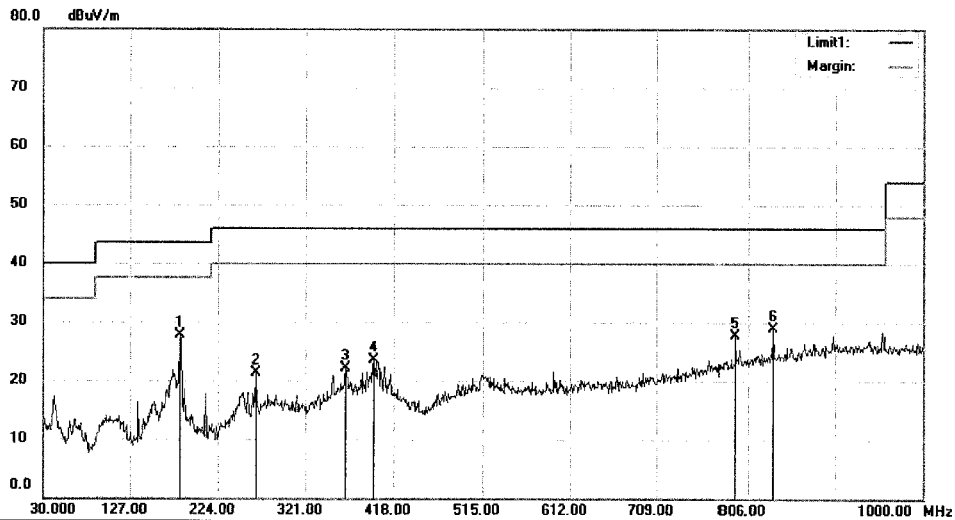
File :TUV 8\Data :#311

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Radiated Emission Measurement

File :TUV 8 Data #313 Date: 15/08/17/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(Memory)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	182.2900	46.31	-18.58	27.73	43.50	-15.77	QP		
2		265.7100	34.04	-12.73	21.31	46.00	-24.69	QP		
3		365.6200	32.58	-10.52	22.06	46.00	-23.94	QP		
4		396.6600	32.50	-9.05	23.45	46.00	-22.55	QP		
5		791.4500	30.84	-3.14	27.70	46.00	-18.30	QP		
6		834.1300	30.95	-2.11	28.84	46.00	-17.16	QP		

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

Operator: KK

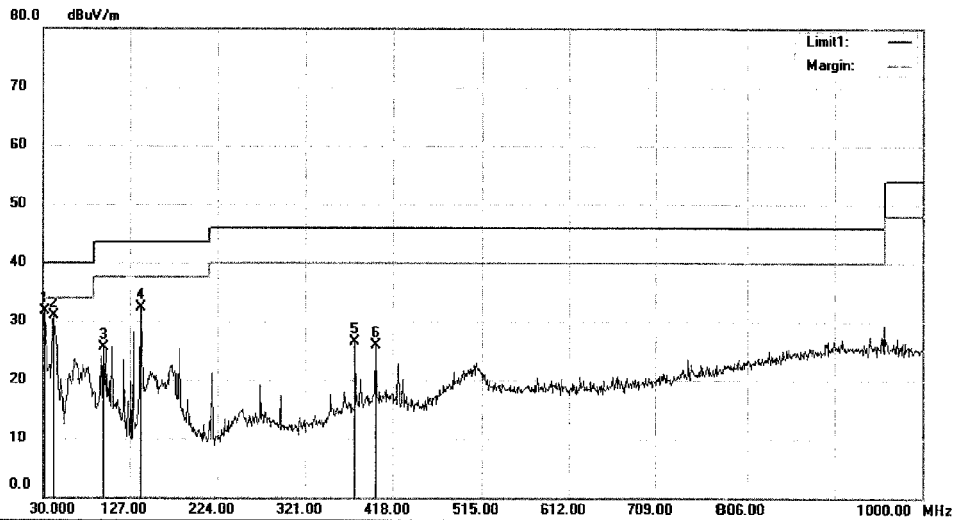
File :TUV 8\Data :#313

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Radiated Emission Measurement

File :TUV 8 Data :#312 Date: 15/08/17



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(Memory)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	31.9400	47.49	-15.81	31.68	40.00	-8.32	QP		
2		41.6400	43.86	-12.93	30.93	40.00	-9.07	QP		
3		97.9000	40.06	-14.46	25.60	43.50	-17.90	QP		
4		138.6400	50.07	-17.70	32.37	43.50	-11.13	QP		
5		376.2900	36.70	-10.13	26.57	46.00	-19.43	QP		
6		399.5700	34.78	-8.89	25.89	46.00	-20.11	QP		

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

Operator: KK

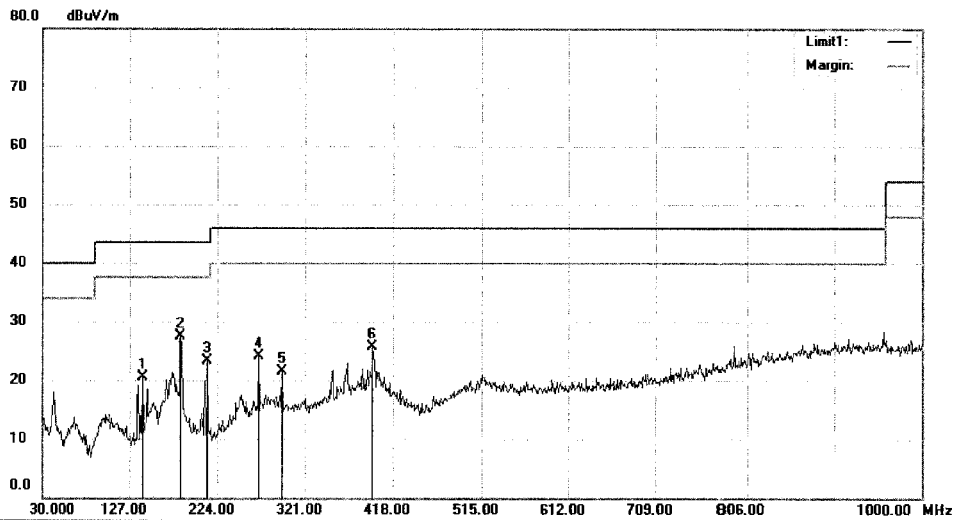
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Radiated Emission Measurement

File :TUV 8 Data :#314 Date: 15/08/17



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(SD)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		141.5500	38.41	-17.84	20.57	43.50	-22.93	QP		
2	*	183.2600	45.86	-18.41	27.45	43.50	-16.05	QP		
3		213.3300	39.68	-16.38	23.30	43.50	-20.20	QP		
4		269.5900	36.82	-12.69	24.13	46.00	-21.87	QP		
5		295.7800	35.05	-13.57	21.48	46.00	-24.52	QP		
6		395.6900	34.90	-9.11	25.79	46.00	-20.21	QP		

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

Operator: KK

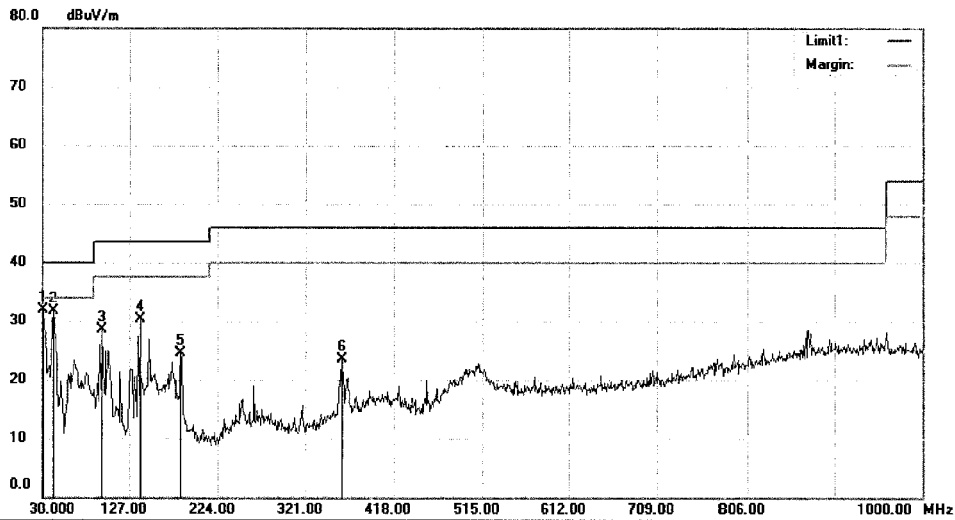
File :TUV 8\Data :#314

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Radiated Emission Measurement

File :TUV 8 Data :#315 Date: 15/08/17/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(SD)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.9700	48.04	-16.13	31.91	40.00	-8.09	QP		
2		42.6100	44.76	-13.02	31.74	40.00	-8.26	QP		
3		96.9300	43.15	-14.67	28.48	43.50	-15.02	QP		
4		138.6400	47.95	-17.70	30.25	43.50	-13.25	QP		
5		183.2600	42.82	-18.41	24.41	43.50	-19.09	QP		
6		361.7400	34.23	-10.67	23.56	46.00	-22.44	QP		

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

Operator: KK

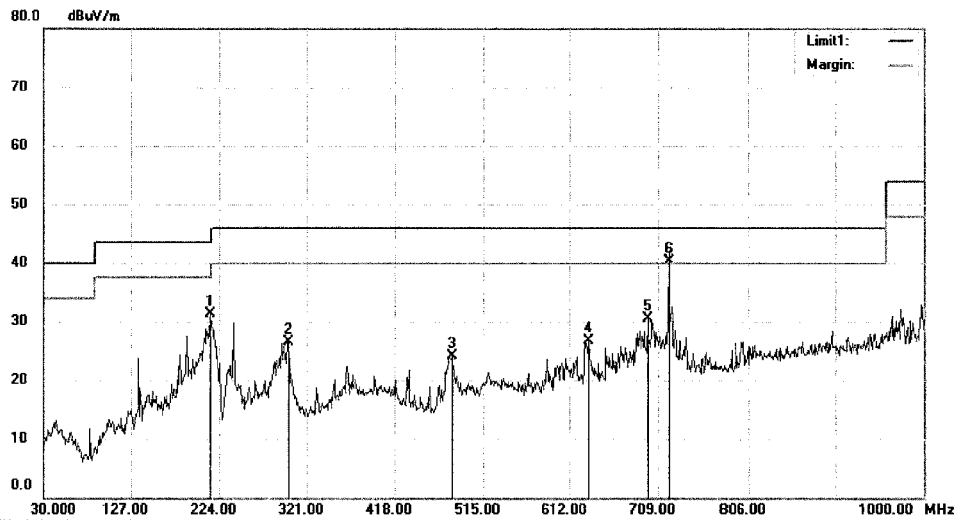
File :TUV 8\Data :#315

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Radiated Emission Measurement

File :TUV 8 Data :#317 Date: 15/08/17



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:USB LINK
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		214.3000	47.65	-16.38	31.27	43.50	-12.23	QP		
2		300.6300	40.40	-13.82	26.58	46.00	-19.42	QP		
3		480.0800	33.71	-9.53	24.18	46.00	-21.82	QP		
4		633.3400	33.42	-6.65	26.77	46.00	-19.23	QP		
5		697.3600	36.51	-6.00	30.51	46.00	-15.49	QP		
6	*	720.6400	45.60	-5.33	40.27	46.00	-5.73	QP		

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

Operator: KK

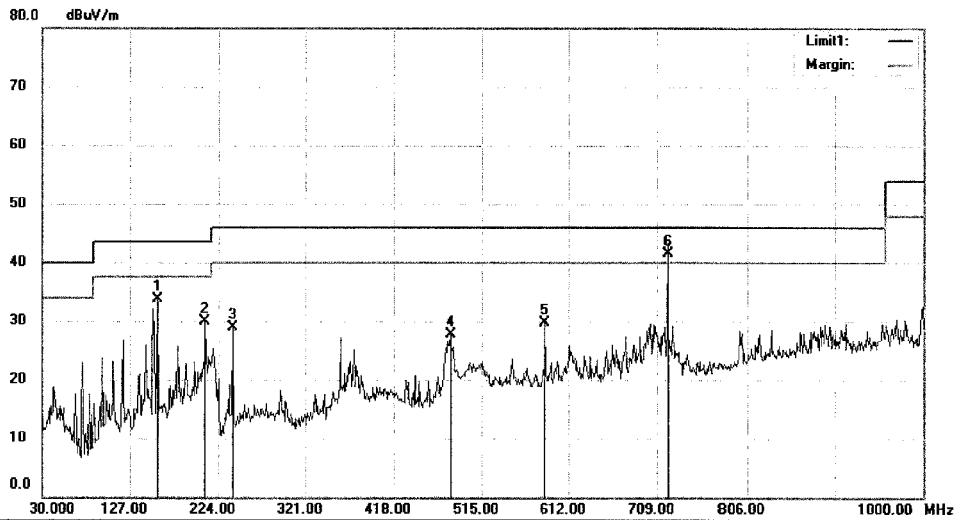
File :TUV 8\Data :#317

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Radiated Emission Measurement

File :TUV 8 Data :#316 Date: 15/08/17/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:USB LINK
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		157.0700	52.32	-18.54	33.78	43.50	-9.72	QP		
2		209.4500	46.23	-16.38	29.85	43.50	-13.65	QP		
3		239.5200	42.81	-13.89	28.92	46.00	-17.08	QP		
4		480.0800	37.28	-9.53	27.75	46.00	-18.25	QP		
5		585.8100	36.73	-7.10	29.63	46.00	-16.37	QP		
6	*	720.6400	46.82	-5.33	41.49	46.00	-4.51	QP		

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

Operator: KK

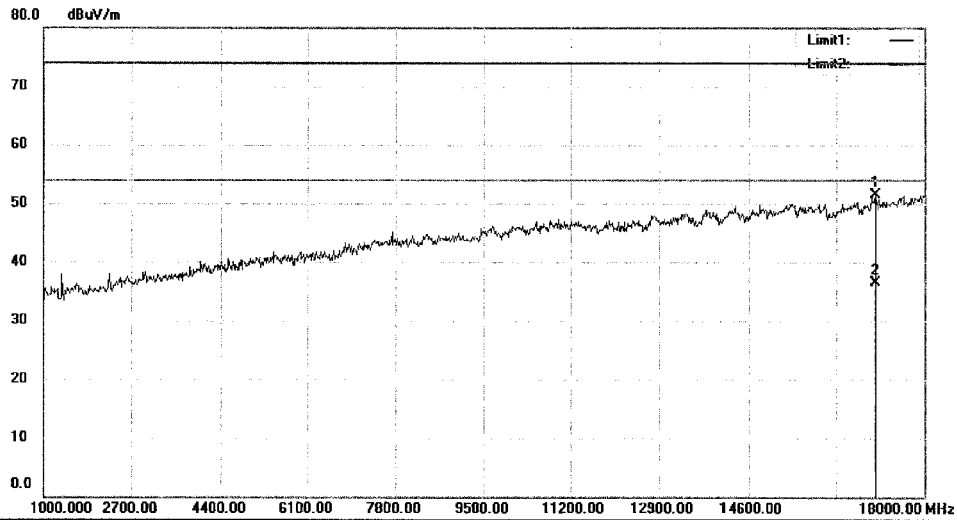
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Radiated Emission Measurement

File :TUV 8 Data #329 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode: Camera(Front)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		17048.00	56.00	-4.59	51.41	74.00	-22.59	peak		
2	*	17048.00	41.01	-4.59	36.42	54.00	-17.58	AVG		

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

Operator: KK

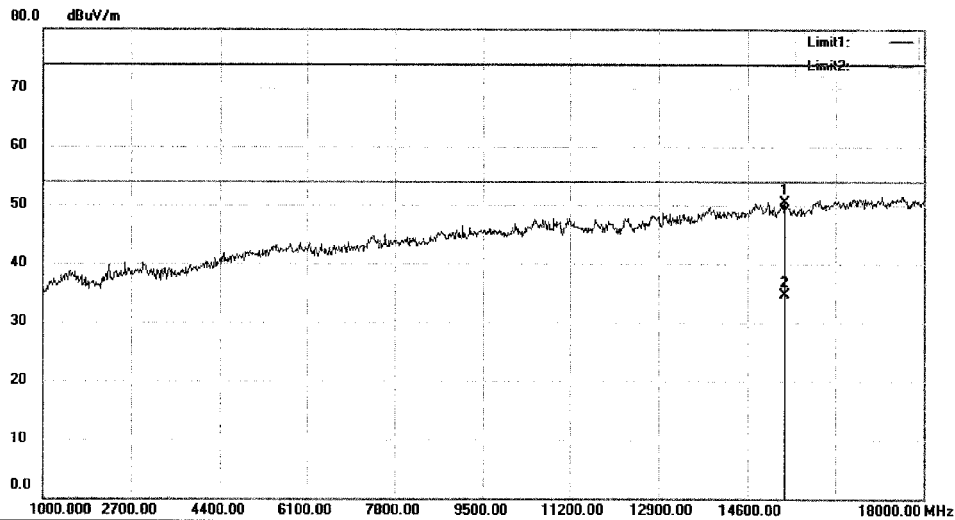
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Radiated Emission Measurement

File :TUV 8 Data :#328 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode: Camera(Front)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		15314.00	57.61	-7.14	50.47	74.00	-23.53	peak		
2	*	15314.00	41.76	-7.14	34.62	54.00	-19.38	AVG		

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

Operator: KK

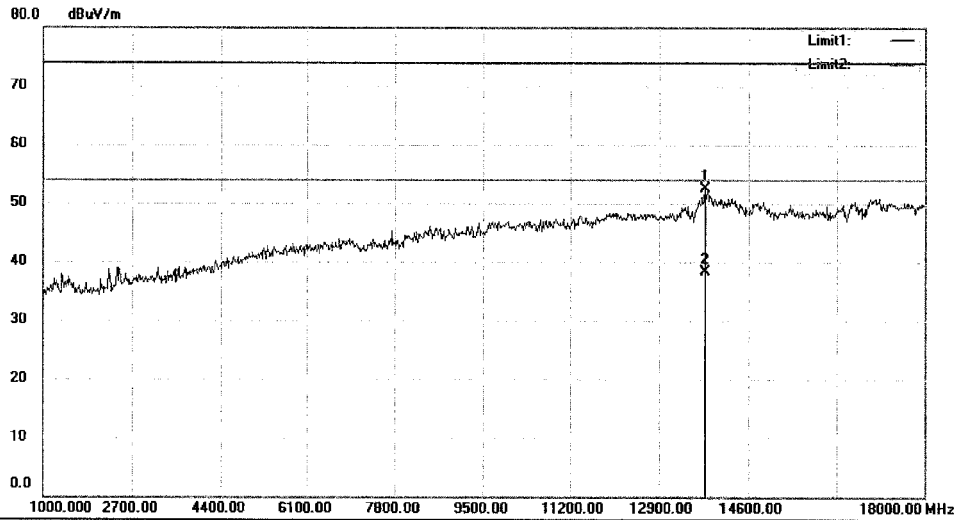
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Radiated Emission Measurement

File :TUV 8 Data :#331 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		13784.00	58.84	-6.34	52.50	74.00	-21.50	peak		
2	*	13784.00	44.55	-6.34	38.21	54.00	-15.79	AVG		

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

Operator: KK

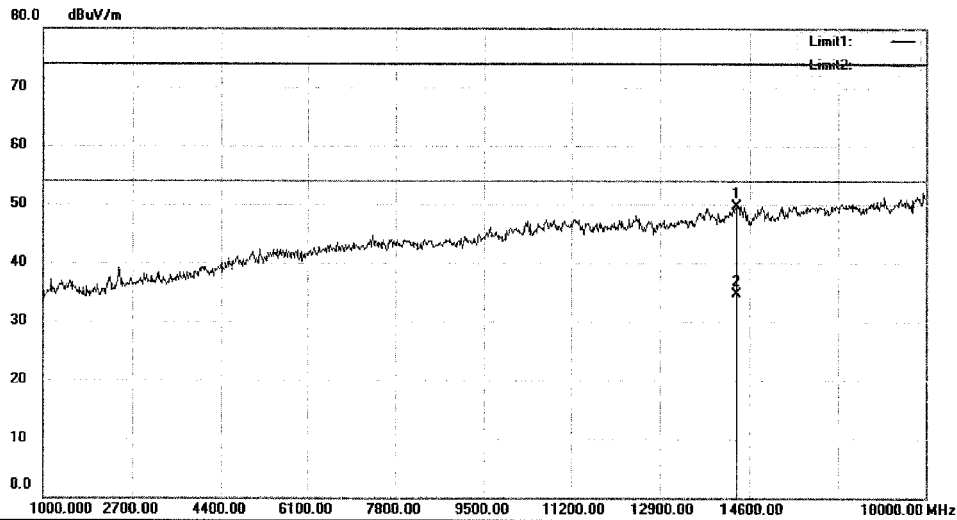
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Radiated Emission Measurement

File :TUV 8 Data :#330 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode: Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		14345.00	55.62	-5.84	49.78	74.00	-24.22	peak		
2	*	14345.00	40.49	-5.84	34.65	54.00	-19.35	AVG		

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

Operator: KK

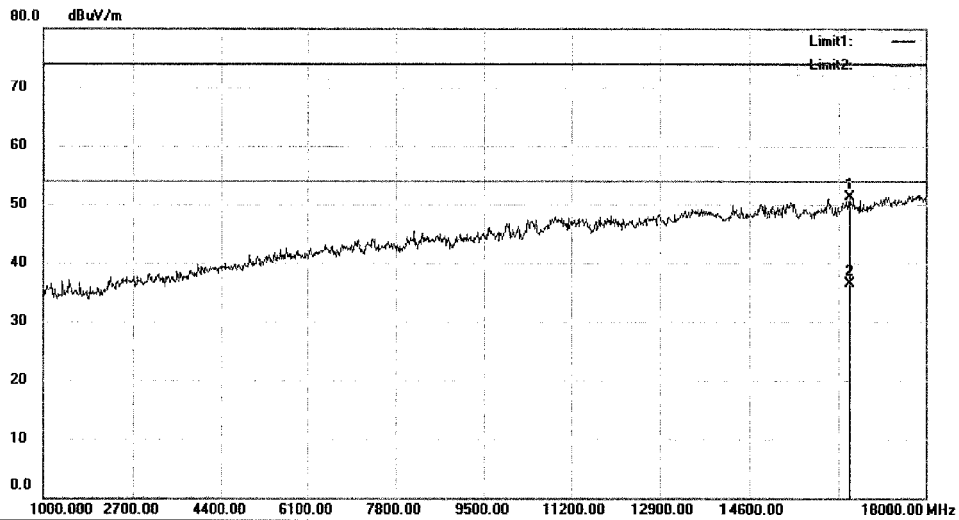
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Radiated Emission Measurement

File :TUV 8 Data #333 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode: Video play(Memory)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		16504.00	57.74	-6.34	51.40	74.00	-22.60	peak		
2	*	16504.00	42.76	-6.34	36.42	54.00	-17.58	AVG		

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

Operator: KK

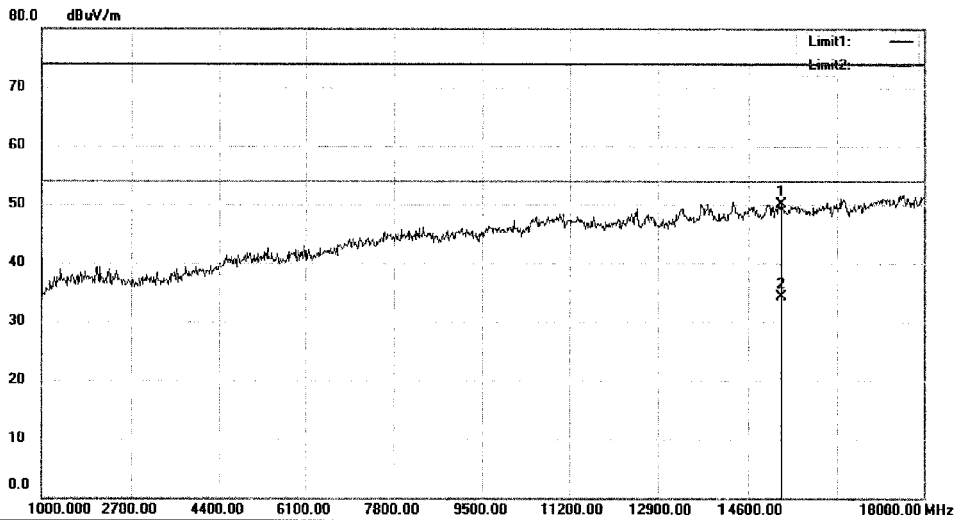
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Radiated Emission Measurement

File :TUV 8 Data :#332 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(Memory)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		15212.00	57.22	-7.05	50.17	74.00	-23.83	peak		
2	*	15212.00	41.44	-7.05	34.39	54.00	-19.61	AVG		

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

Operator: KK

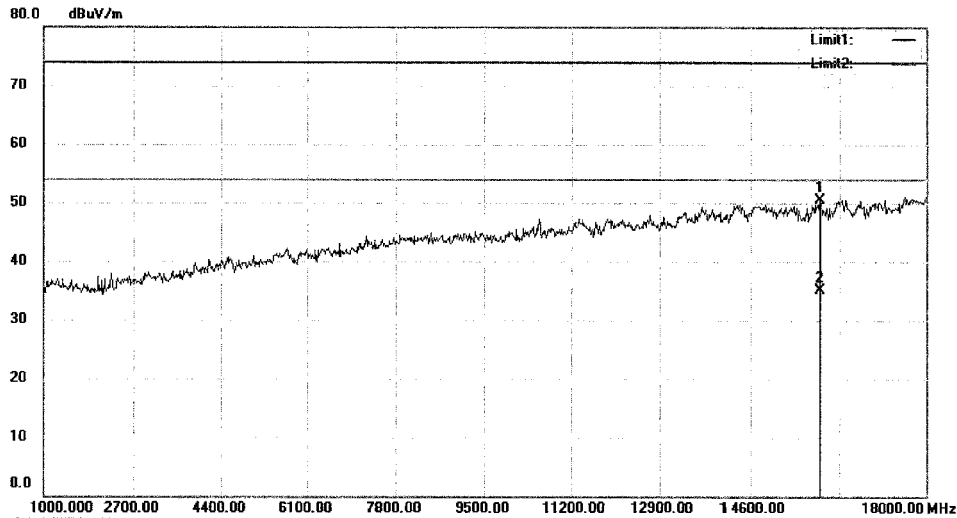
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Radiated Emission Measurement

File :TUV 8 Data :#335 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(SD)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree		
1		15926.00	58.24	-7.69	50.55	74.00	-23.45			peak	
2	*	15926.00	42.82	-7.69	35.13	54.00	-18.87			AVG	

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

Operator: KK

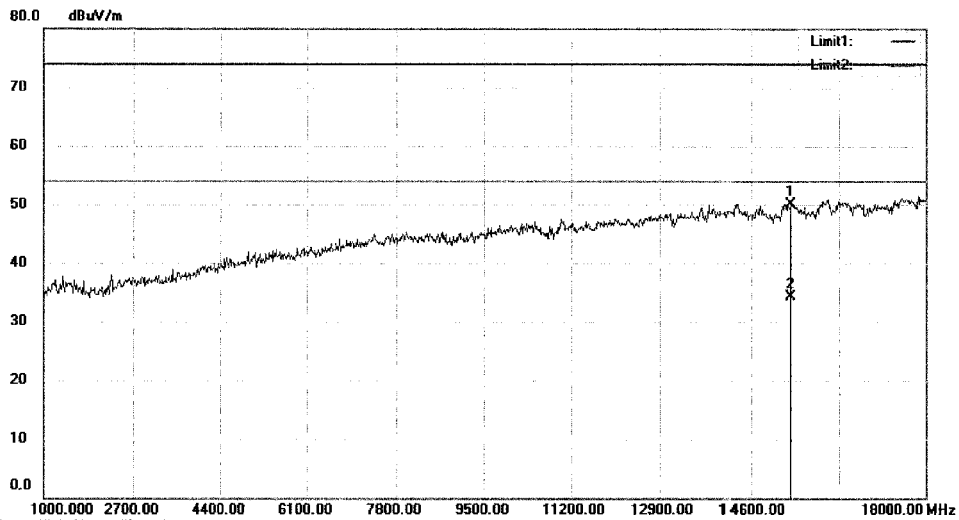
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Radiated Emission Measurement

File :TUV 8 Data :#334 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:Video play(SD)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		15365.00	57.34	-7.18	50.16	74.00	-23.84	peak		
2	*	15365.00	41.53	-7.18	34.35	54.00	-19.65	AVG		

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

Operator: KK

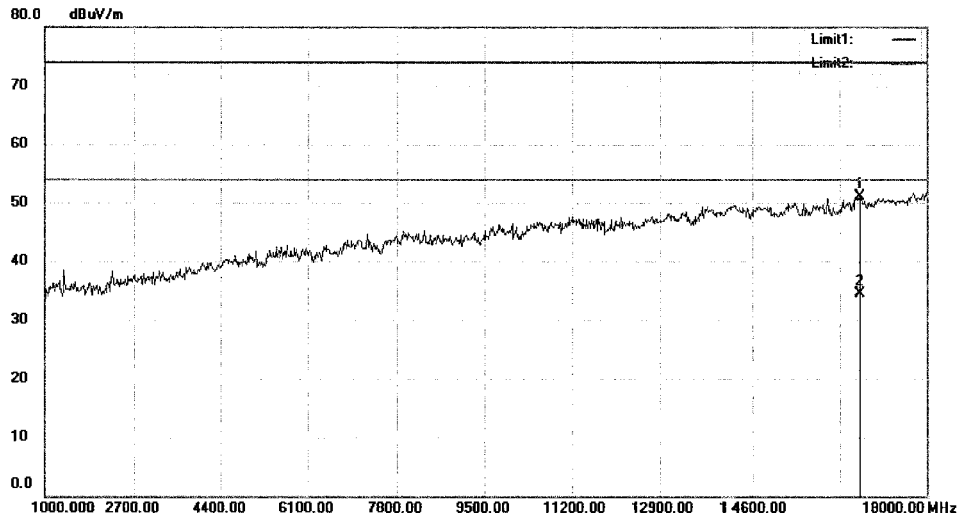
File :TUV 8\Data :#334

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Radiated Emission Measurement

File :TUV 8 Data :#337 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:USB LINK
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		16691.00	56.90	-5.81	51.09	74.00	-22.91	peak		
2	*	16691.00	40.23	-5.81	34.42	54.00	-19.58	AVG		

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

Operator: KK

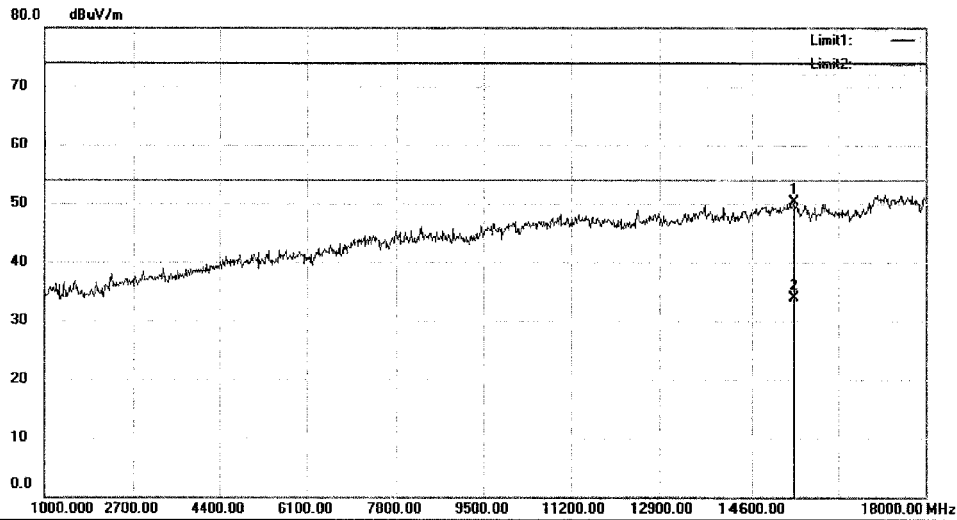
File :TUV 8\Data :#337

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Radiated Emission Measurement

File :TUV 8 Data :#336 Date: 15/08/19/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: DL1018A, MID1016-MA
 Mode:USB LINK
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		15416.00	57.58	-7.23	50.35	74.00	-23.65	peak		
2	*	15416.00	41.21	-7.23	33.98	54.00	-20.02	AVG		

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

Operator: KK

File :TUV 8\Data :#336

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6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission



Photograph 2: Set-up for Radiated Emission of below 1GHz



Photograph 3: Set-up for Radiated Emission of 1 - 18GHz



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