

EMC - TEST REPORT

Report Number	68.760.15.301.01	Date of Issue:	20 May 2015
Model	: KT720		
Product Type	: Automotive Diagnostics I	=quipment	
Applicant	: Bosch Automotive Service	e Solutions (suzhou) Co	., LTD Shenzhen Branch
Address	: 501C/F, A Garden City C	Syber Port, Nanhai NO.10	079,
	Nanshan District, 518067	⁷ Shenzhen,	
	PEOPLE'S REPUBLIC C	OF CHINA	
Production Facility	: Bosch Automotive Produ	cts (Nanjing) Co., Ltd.	
Address	: No.1 Runbo Road, East 2	Zone of Nanjing Econom	ic and Technology
	Development Zone, 2100)34 Nanjing,	
	PEOPLE'S REPUBLIC C	OF CHINA	
Test Result	: ■ Positive □ Ne	egative	
Total pages including Appendices	: 34		

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Report Number: 68.760.15.301.01



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2 Details about the Test Laboratory

Details about the Test Laboratory

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Nanshan District,

518052 Shenzhen, CHINA

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299



3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: Automotive Diagnostics Equipment

Model no.: KT720

Serial number: NIL

Options and accessories: Notebook, Micro SD Card, DC source cable, CAN Simulator(OBD)

Ratings: 7-32VDC

supplied by the external AC/DC adaptor (Model: GM50-120300-F)

with following ratings:

Input: 100-240VAC, 50/60Hz, 1.5A;

DC output: 12VDC, 3.0A

or supplied by Lead-acid battery used on vehicles

Description of the EUT: NIL

Remark: NIL

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	ThinkPad	T410	N/A
Micro SD Card	Transcend	9181AA 16G 07DS2	N/A
Unshielded USB Communication cable(with ferrite cores)	N/A	N/A	1.5m
DC power extension cable	N/A	N/A	1.5m
Oscilloscope Probe	N/A	N/A	2.0m
Differential Probe	N/A	N/A	2.0m
Diagnostic extension cable for OBD	N/A	N/A	1.5m
CAN Simulator(OBD)	BOSCH	A51	N/A



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart B,	PART 15 - RADIO FREQUENCY DEVICES
10-1-2014 Edition	Subpart B - Unintentional Radiators



5 Summary of Test Results

Emission Tests	3			
FCC Part 15 Subpart B				
Test Condition	Pages	[est Resul	t
Class B		Pass	Fail	N/A
Radiated Emission (3 semi-anechoic chamber)	8	\boxtimes		
30MHz to 6000MHz				
Conducted Emission on AC	29	\boxtimes		
150kHz to 30MHz				



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AFBG-KT720 complies with Section 15.107, 15.109 of the FCC Part 15, Subpart B Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- ☐ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: 05 May 2015

Testing Start Date: 12 May 2015

Testing End Date: 12 May 2015

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch-

Reviewed by: Prepared by: Tested by:

Phoebe Hu EMC Project Manager

EMC Project Engineer

Louise Liu Test Engineer



7 Emission Test Results

7.1 Radiated Emission Test 30MHz - 1000MHz

Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

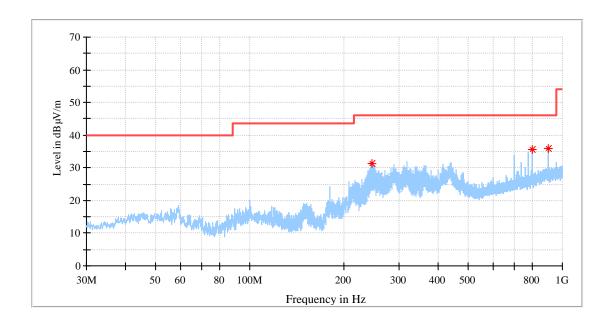
Operating mode : Oscilloscope and data transmitting

Tested on : Horizontal

Comment : DC 12V (Supplied by DC Source)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
245.764375	31.17	46.00	14.83			200.0	Н	0.0	14.5
799.998125	35.55	46.00	10.45			100.0	Н	345.0	24.3
900.029375	35.82	46.00	10.18			100.0	Н	78.0	25.9

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

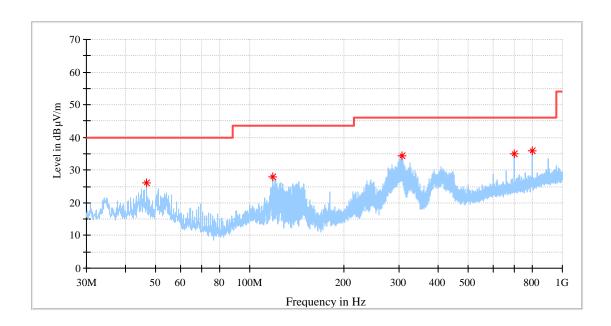
Operating mode : Oscilloscope and data transmitting

Tested on : Vertical

Comment : DC 12V (Supplied by DC Source)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

Frequency	MaxPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)
				(ms)					
46.732500	26.00	40.00	14.00			100.0	٧	148.0	15.4
118.512500	27.85	43.50	15.65			100.0	٧	0.0	12.4
306.753125	34.33	46.00	11.67			100.0	٧	211.0	15.8
700.027500	34.97	46.00	11.03			100.0	٧	200.0	22.5
799.998125	35.87	46.00	10.13			100.0	٧	169.0	24.3

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



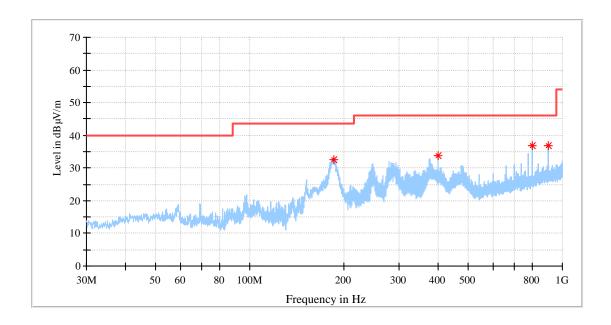
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope and data transmitting

Tested on : Horizontal
Comment : AC 120V/60Hz
Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

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	Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	186.109375	32.55	43.50	10.95			200.0	Н	83.0	12.2
	399.994375	33.73	46.00	12.27			100.0	Н	337.0	18.0
	800.058750	36.94	46.00	9.06			100.0	Н	18.0	24.3
	900.029375	36.81	46.00	9.19			100.0	Н	337.0	25.9

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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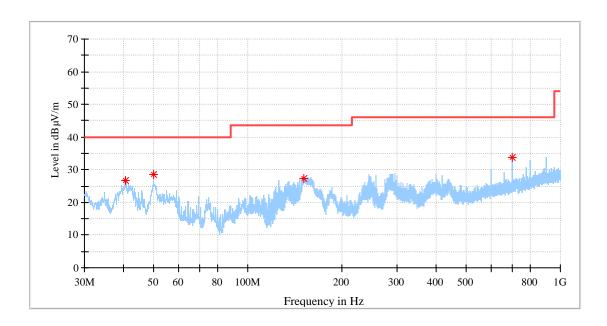
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope and data transmitting

Tested on : Vertical
Comment : AC 120V/60Hz
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Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical Freqs

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	Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	40.488125	26.61	40.00	13.39			100.0	٧	0.0	14.5
	49.885000	28.57	40.00	11.43			100.0	٧	0.0	15.4
	151.007500	27.22	43.50	16.28		-	100.0	٧	337.0	10.3
	700.088125	33.68	46.00	12.32	-	-	100.0	٧	161.0	22.5

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
		-	-		-	-		-	



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

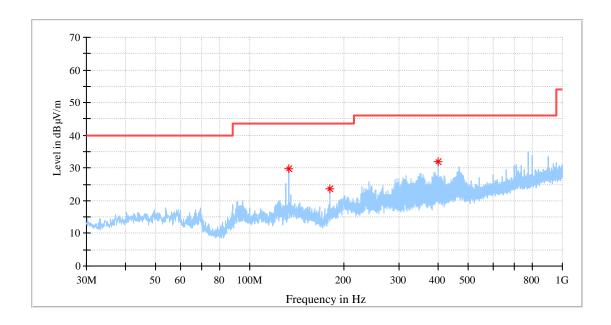
Operating mode : Oscilloscope, differential and data transmitting

Tested on : Horizontal

Comment : DC 12V (Supplied by DC Source)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

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	Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	133.001875	29.68	40.00	10.32	200.0	Н	0.0	10.5
	179.986250	23.67	40.00	16.33	100.0	Н	316.0	11.5
	399.994375	31.95	47.00	15.05	100.0	Н	0.0	18.0

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

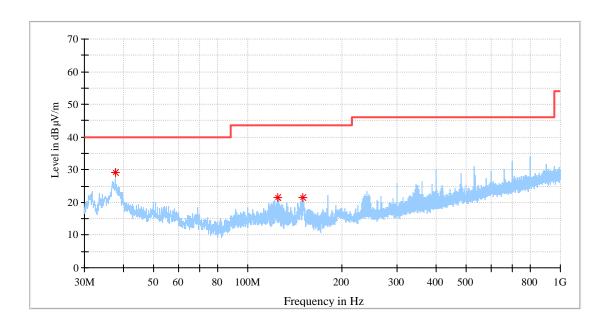
Operating mode : Oscilloscope, differential and data transmitting

Tested on : Vertical

Comment : DC 12V (Supplied by DC Source)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.638750	29.19	40.00	10.81	100.0	V	0.0	13.7
124.756875	21.49	40.00	18.51	100.0	V	323.0	11.4
149.855625	21.51	40.00	18.49	100.0	V	0.0	10.3

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



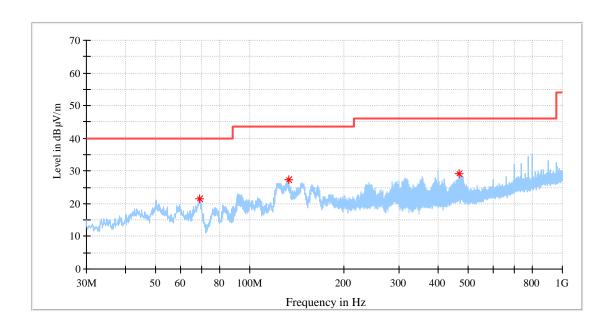
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope, differential and data transmitting

Tested on : Horizontal
Comment : AC 120V/60Hz
Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

_	· · · · · · · · · · · · · · · · · · ·	990						
	Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	69.163750	21.43	40.00	18.57	200.0	Н	307.0	11.6
	133.001875	27.33	43.50	16.17	100.0	Н	0.0	10.5
	468.076250	29.31	46.00	16.69	200.0	Н	0.0	18.9

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
		-		-			-



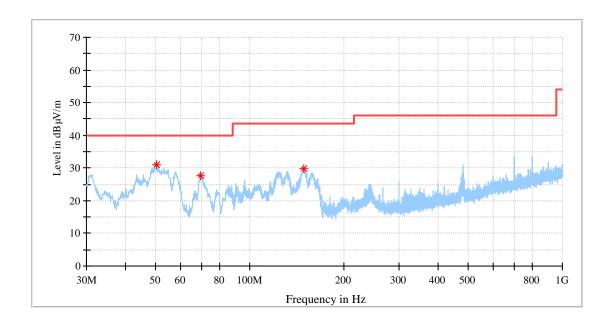
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Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope, differential and data transmitting

Tested on : Vertical
Comment : AC 120V/60Hz
Date of test : 12 May 2015

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Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
50.188125	31.00	40.00	9.00	100.0	V	177.0	15.4
69.830625	27.68	40.00	12.32	200.0	V	24.0	11.3
149.006875	29.78	43.50	13.72	100.0	V	353.0	10.2

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
-	-			-		-	-



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

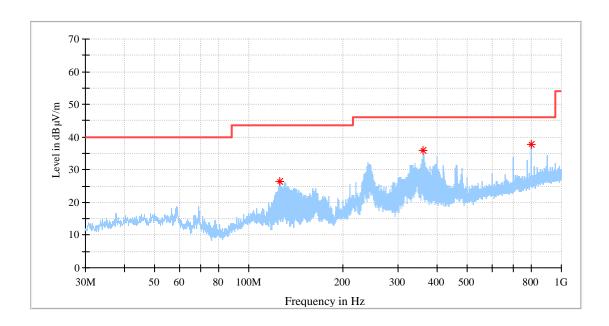
Operating mode : Diagnosing and data transmitting (OBD)

Tested on : Horizontal

Comment : DC 12V (Supplied by CAN Simulator)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical Freqs

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	Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	125.787500	26.50	43.50	17.00			200.0	Н	32.0	11.2
	359.981875	35.91	46.00	10.09			100.0	Н	42.0	17.1
	799.998125	37.80	46.00	8.20			100.0	Н	1.0	24.3

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

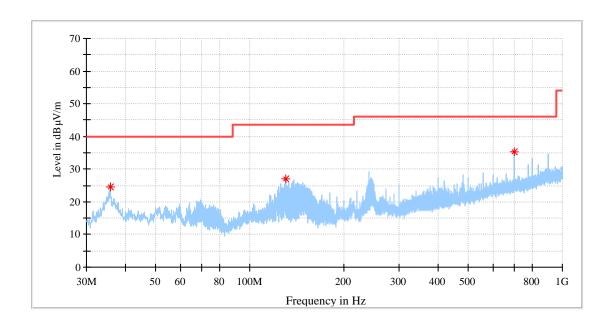
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Critical Fregs

•	u	. 999								
	Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	35.759375	24.53	40.00	15.47			100.0	٧	0.0	13.0
	129.970625	27.01	43.50	16.49			100.0	٧	0.0	10.5
	700.088125	35.29	46.00	10.71	-		100.0	٧	159.0	22.5

				(ms)					
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

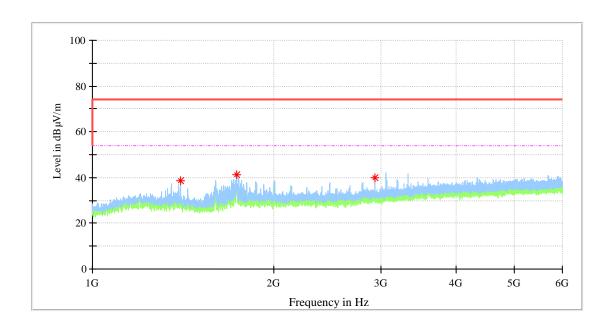
Operating mode : Oscilloscope and data transmitting

Tested on : Horizontal

Comment : DC 12V (Supplied by DC Source)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical Freqs

	Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
	1401.000000	38.57		70.00	31.43			200.0	V	269.0
	1733.000000	41.35		70.00	28.65			100.0	٧	304.0
Ī	2933.000000	39.84		70.00	30.16			200.0	٧	301.0

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
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Model No. : KT720

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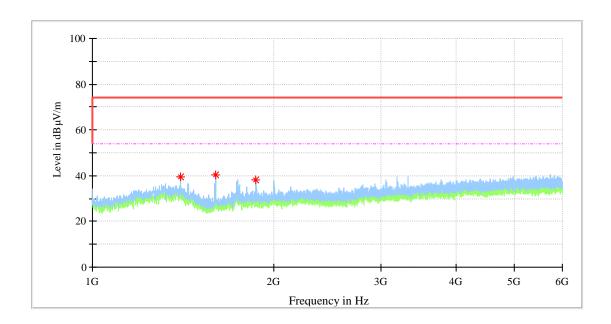
Operating mode : Oscilloscope and data transmitting

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Comment : DC 12V (Supplied by DC Source)

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Critical Freqs

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Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1400.500000	39.68		74.00	34.32			100.0	Н	328.0
1601.500000	40.37		74.00	33.63			100.0	Н	312.0
1867.000000	38.25		74.00	35.75	-		100.0	Н	312.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)



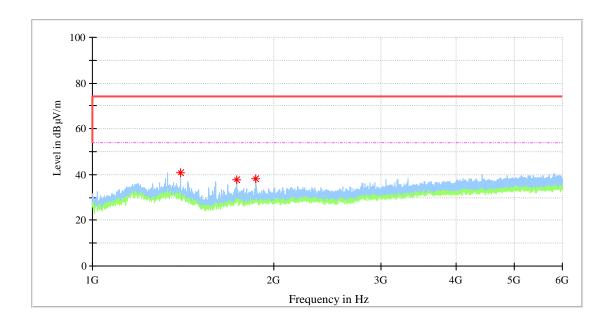
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope and data transmitting

Tested on : Horizontal
Comment : AC 120V/60Hz
Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1401.000000	40.92		74.00	33.08			100.0	Н	22.0
1733.500000	37.66		74.00	36.34			100.0	Н	335.0
1867.000000	37.99		74.00	36.01			100.0	Н	343.0

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
				-					



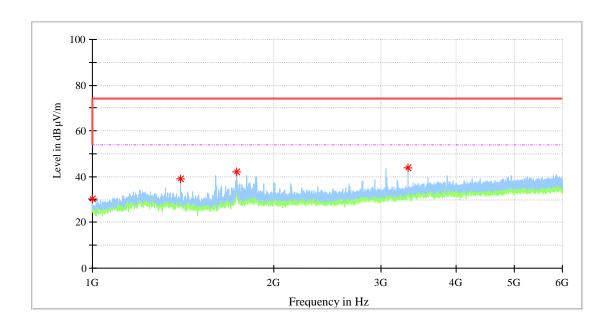
Model No. : KT720

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Operating mode : Oscilloscope, differential and data transmitting

Tested on : Vertical
Comment : AC 120V/60Hz
Date of test : 12 May 2015

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Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1000.000000	30.07		54.00	23.93	-		200.0	٧	79.0
1400.000000	39.20		74.00	34.80			200.0	٧	264.0
1733.000000	42.17		74.00	31.83	-		100.0	٧	320.0
3334.500000	43.88		74.00	30.12			100.0	V	142.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)



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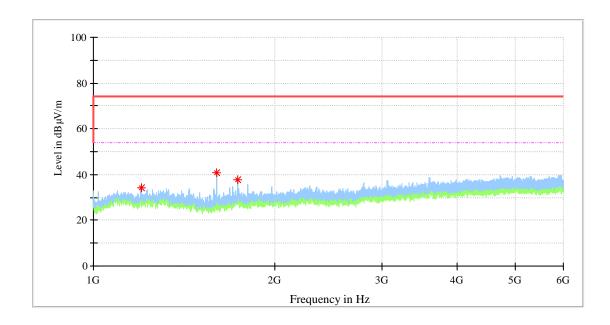
Operating mode : Oscilloscope, differential and data transmitting

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Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1199.500000	34.12		74.00	39.88	100.0	Н	198.0	-14.3
1600.000000	40.81		74.00	32.19	100.0	Н	0.0	-12.6
1734.000000	37.54		74.00	36.46	100.0	Н	315.0	-10.7

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
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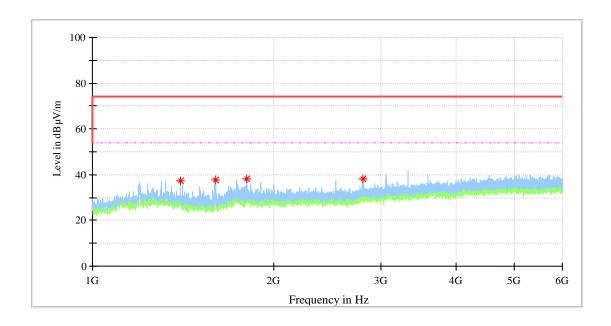
Operating mode : Oscilloscope, differential and data transmitting

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Comment : DC 12V (Supplied by DC Source)

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Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB)
1400.000000	37.45		74.00	36.55	100.0	٧	265.0	-13.5
1600.500000	37.81		74.00	36.19	100.0	٧	236.0	-12.6
1800.500000	37.98		74.00	36.02	100.0	V	295.0	-10.7
2800.000000	38.14		74.00	35.86	100.0	٧	125.0	-7.1

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
				-		-	-



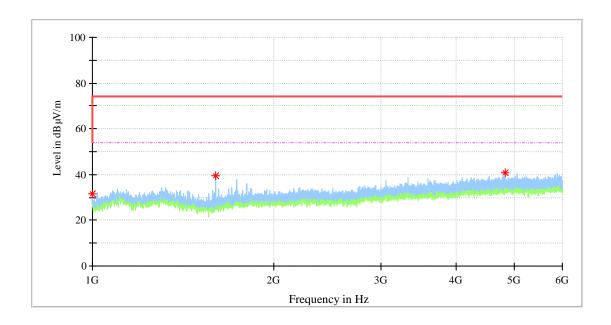
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope, differential and data transmitting

Tested on : Horizontal
Comment : AC 120V/60Hz
Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	31.77		54.00	22.23	100.0	Н	0.0	-15.1
1600.000000	39.42		74.00	34.58	100.0	Н	337.0	-12.6
4818.500000	40.64		74.00	33.36	100.0	Н	109.0	-0.7

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



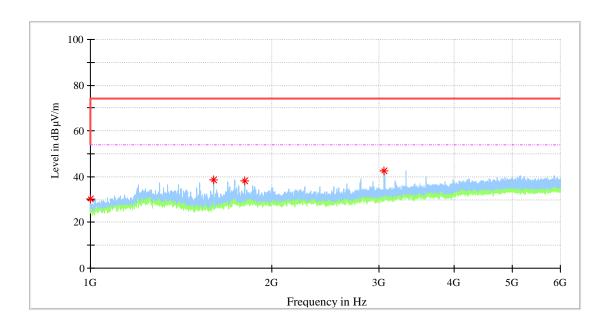
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope, differential and data transmitting

Tested on : Vertical
Comment : AC 120V/60Hz
Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(cm)		(deg)	(dB)
1000.000000	30.10		54.00	23.90	200.0	٧	110.0	-15.1
1600.000000	38.74		74.00	35.26	100.0	٧	257.0	-12.6
1800.500000	38.29		74.00	35.71	100.0	٧	316.0	-10.7
3068.000000	42.64		74.00	31.36	200.0	٧	242.0	-6.2

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

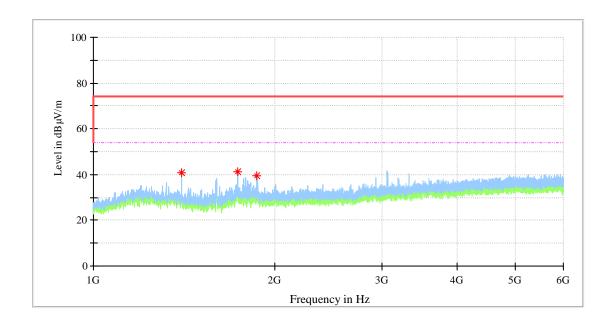
Operating mode : Diagnosing and data transmitting (OBD)

Tested on : Horizontal

Comment : DC 12V (Supplied by CAN Simulator)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1400.500000	40.87		74.00	32.13			100.0	٧	218.0
1733.500000	41.12		74.00	32.88			100.0	٧	284.0
1866.500000	39.66		74.00	34.34			100.0	٧	255.0

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
				-					



Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

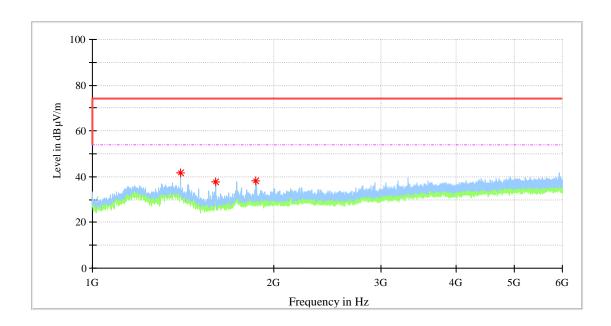
Operating mode : Diagnosing and data transmitting (OBD)

Tested on : Vertical

Comment : DC 12V (Supplied by CAN Simulator)

Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.2 Atmospheric Pressure(mbar): 1014



Critical Freqs

•····•	9 -								
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1400.000000	41.58		70.00	28.42			100.0	H	15.0
1600.500000	37.80		70.00	32.20			200.0	Н	313.0
1867.500000	38.29		70.00	31.71			100.0	Н	333.0

(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	Time (ms)	(kHz)	(cm)	(deg)
		•		1	-	•		



Test Equipment List

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2015-8-17
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2017-8-17
Horn Antenna	Rohde & Schwarz	HF907	102294	2017-8-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2015-8-17
3m Semi-anechoic chamber	TDK	9X6X6		2019-5-29



7.2 Conducted Emission Test 150kHz - 30MHz

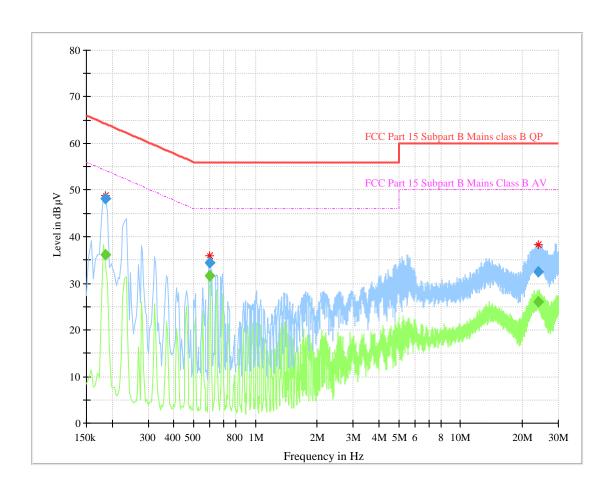
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope and data transmitting

Tested on : Power Line, Live Comment : AC 120V/60Hz Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.1 Atmospheric Pressure(mbar): 1010



Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)
0.185500		36.05	54.24	18.19	L1	9.7
0.185500	48.13		64.24	16.11	L1	9.7
0.601500		31.69	46.00	14.31	L1	10.0
0.601500	34.48		56.00	21.52	L1	10.0
23.981500		26.04	50.00	23.96	L1	10.2
23.981500	32.54		60.00	27.46	L1	10.2



Conducted Emission Test 150kHz - 30MHz

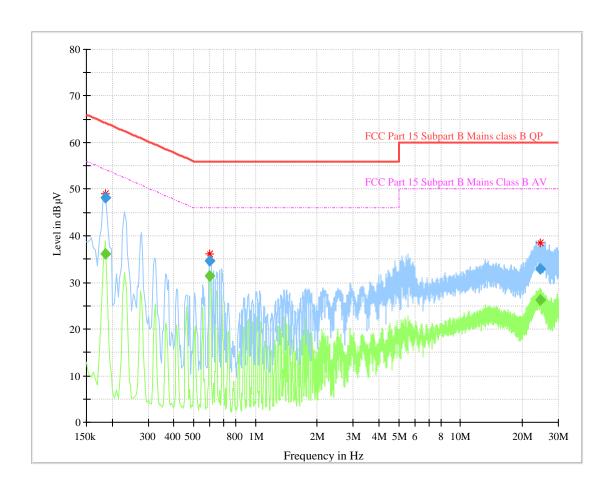
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope and data transmitting

Tested on : Power Line, Neutral Comment : AC 120V/60Hz Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.1 Atmospheric Pressure(mbar): 1010



	Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
	0.185500		36.16	54.24	18.08	N	9.7
İ	0.185500	48.23		64.24	16.01	N	9.7
	0.601500		31.35	46.00	14.65	N	10.0
	0.601500	34.56		56.00	21.44	N	10.0
	24.526500		26.13	50.00	23.87	N	10.2
	24.526500	32.85		60.00	27.15	N	10.2



Conducted Emission Test 150kHz - 30MHz

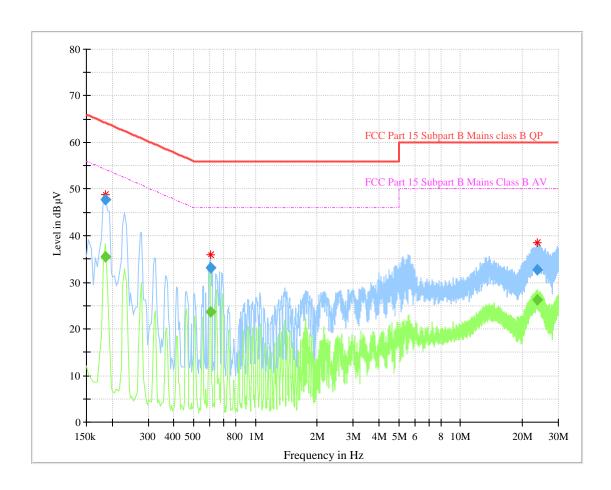
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope, differential and data transmitting

Tested on : Power Line, Live
Comment : AC 120V/60Hz
Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.1 Atmospheric Pressure(mbar): 1010



Frequency	QuasiPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)
0.185500		35.58	54.24	18.66	L1	9.7
0.185500	47.84		64.24	16.40	L1	9.7
0.605500		23.72	46.00	22.28	L1	10.0
0.605500	33.14		56.00	22.86	L1	10.0
23.817500		26.21	50.00	23.79	L1	10.2
23.817500	32.61		60.00	27.39	L1	10.2



Conducted Emission Test 150kHz - 30MHz

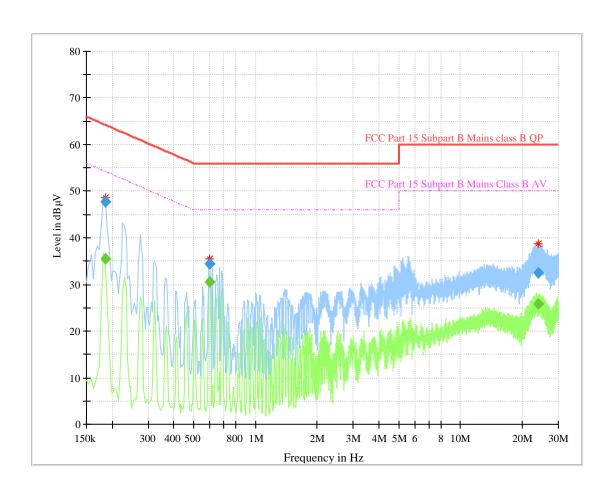
Model No. : KT720

Test requirement : FCC Part 15 Subpart B
Test method : FCC Part 15 Subpart B

Operating mode : Oscilloscope, differential and data transmitting

Tested on : Power Line, Neutral Comment : AC 120V/60Hz Date of test : 12 May 2015

Temperature (°C): 24.0 Relative Humidity (%): 65.1 Atmospheric Pressure(mbar): 1010



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.185500		35.52	54.24	18.72	N	9.7
0.185500	47.66		64.24	16.58	N	9.7
0.601500		30.52	46.00	15.48	N	10.0
0.601500	34.42		56.00	21.58	N	10.0
24.041500		25.85	50.00	24.15	N	10.2
24.041500	32.57		60.00	27.43	N	10.2



Test Equipment List

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2015-8-17
LISN	Rohde & Schwarz	ENV4200	100249	2015-8-17
LISN	Rohde & Schwarz	ENV216	100326	2015-8-17
ISN	Rohde & Schwarz	ENY81	100177	2015-8-17
ISN	Rohde & Schwarz	ENY81-CAT6	101664	2015-8-17
High Voltage Probe	Rohde & Schwarz	TK9420(VT9420)	9420-58	2015-8-17
RF Current probe	Rohde & Schwarz	EZ-17	100816	2015-8-17



8 Appendix A

System Measurement Uncertainty				
Test Items	Extended Uncertainty			
Uncertainty for Radiated Emission in 3m chamber 30MHz-	Horizontal: 4.83dB			
1000MHz	Vertical: 4.91dB			
Uncertainty for Radiated Emission in 3m chamber 1000MHz-	Horizontal: 4.89dB;			
6000MHz	Vertical: 4.88dB;			
Uncertainty for Conducted Emission 150kHz-30MHz (for test	3.50dB			
using AMN ENV216 or ENV4200)				