

ETSI EN 300 440 RADIO TEST REPORT

For

i3-Technologies NV

Interactive Flat Panel Display

Model Number: A4-86

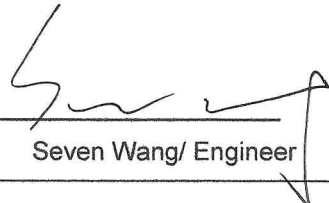
Addition Model: A4-NT-86

Applicant:	i3-Technologies NV
Address:	Kleine Schaluinweg 7, 3290 Diest, Belgium
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2507208
Date of Test:	Jun. 20, 2025 ~ Aug. 30, 2025
Date of Report:	Sep. 02, 2025

TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	3
1. GENERAL INFORMATION.....	4
1.1. Description of Device (EUT).....	4
1.2. Antenna Information	5
1.3. Antenna Information	6
1.4. Information of RF Cable.....	6
2. SUMMARY OF TEST	7
2.1. Summary of test result	7
2.2. Test Facilities.....	8
2.3. Measurement uncertainty	9
2.4. Assistant equipment used for test	9
2.5. Block Diagram	9
2.6. Test Mode	10
2.7. Test Conditions	11
2.8. Channel List.....	11
2.9. Test Equipment List.....	12
3. UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN	13
3.1. Applicability	13
3.2. Limit.....	13
3.3. Test Setup.....	13
3.4. Test Procedure.....	13
3.5. Test Result.....	14
4. SPURIOUS RADIATIONS.....	24
4.1. Applicability	24
4.2. Limit.....	24
4.3. Test Setup.....	24
4.4. Test Procedure.....	24
4.5. Test Result.....	25
5. PHOTOGRAPHS OF TEST SETUP	31
6. EUT PHOTO.....	32

Applicant: Address:	i3-Technologies NV Kleine Schaluinweg 7, 3290 Diest, Belgium		
Manufacturer: Address:	i3-Technologies NV Kleine Schaluinweg 7, 3290 Diest, Belgium		
E.U.T:	Interactive Flat Panel Display		
Model Number:	A4-86		
Addition Model:	A4-NT-86 Note: They are identical except model name.		
Power Supply:	100-240V~, 50/60Hz, 8A		
Trade Name:	i3	Serial No.:	-----
Date of Receipt:	Jun. 20, 2025	Date of Test:	Jun. 20, 2025 ~ Aug. 30, 2025
Test Specification:	ETSI EN 300 440 V2.1.1: 2017-03		
Test Result:	The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the ETSI EN 300 440 requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:		Reviewed by:	
 Zephyr Zhu/ Assistant		 Seven Wang/ Engineer	
		Date: Sep. 02, 2025 Approved by:  Iceman Hu/ Manager	
Other Aspects: N/A			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Interactive Flat Panel Display
Model Number	:	A4-86
Module Model Number	:	WCT2GM2511; WXT52M2511
Software Version	:	N/A
Hardware Version	:	N/A
Operation Frequency Band	:	5725MHz to 5850MHz
Type of Modulation	:	OFDM, OFDMA
Operating Voltage	:	207-253V
Operating Temperature	:	0°C~+45°C
Sample Type	:	Prototype production

Module Model Number: WCT2GM2511

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	4
2	-	-	Internal	-	4

Note:

1. The EUT support smart antenna systems(multiple antennas without beamforming).
2. The EUT support 2TX2RX, the antennas can support SISO function in IEEE 802.11a, and can support MIMO function in IEEE 802.11n, IEEE 802.11ac.
3. After pre-test all antenna configurations, the worst case configuration as list below.
4. The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
5. The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
6. The test results of this report only apply to the sample as received.

TX Mode \ ANT No.	SISO Configuration	MIMO Configuration
IEEE 802.11a	Ant 1 and Ant 2	/
IEEE 802.11n HT20	/	Ant 1+Ant 2
IEEE 802.11n HT40	/	Ant 1+Ant 2
IEEE 802.11ac VHT20	/	Ant 1+Ant 2
IEEE 802.11ac VHT40	/	Ant 1+Ant 2
IEEE 802.11ac VHT80	/	Ant 1+Ant 2

Module Model Number: WXT52M2511

1.3. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	3.93
2	-	-	Internal	-	3.87

Note:

7. The EUT support smart antenna systems(multiple antennas without beamforming).
8. The EUT support 2TX2RX, the antennas can support SISO function in IEEE 802.11a, and can support MIMO function in IEEE 802.11n, IEEE 802.11ac and IEEE 802.11ax.
9. After pre-test all antenna configurations, the worst case configuration as list below.
10. The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
11. The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
12. The test results of this report only apply to the sample as received.

TX Mode \ ANT No.	SISO Configuration	MIMO Configuration
IEEE 802.11a	Ant 1 and Ant 2	/
IEEE 802.11n HT20	/	Ant 1+Ant 2
IEEE 802.11n HT40	/	Ant 1+Ant 2
IEEE 802.11ac VHT20	/	Ant 1+Ant 2
IEEE 802.11ac VHT40	/	Ant 1+Ant 2
IEEE 802.11ac VHT80	/	Ant 1+Ant 2
IEEE 802.11ax HE20	/	Ant 1+Ant 2
IEEE 802.11ax HE40	/	Ant 1+Ant 2
IEEE 802.11ax HE80	/	Ant 1+Ant 2

1.4. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	i3-Technologies NV

Note:

1. The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received.
2. The laboratory is not responsible for the accuracy of the cable loss.

2.SUMMARY OF TEST

2.1.Summary of test result

Harmonized Standard ETSI EN300 440				
The following essential requirements and test specifications are relevant to the presumption of conformity under Article 3.2 of the Radio Equipment Directive 2014/53/EU				
No	Test Parameter	Clause No	Condition	Results
Transmitter Parameters				
1	e.i.r.p.	4.2.2.2	Applies to all devices with transmitters	N/A
2	Permitted range of operating frequencies	4.2.3	Applies to all devices with transmitters	N/A
3	Unwanted emissions in the spurious domain	4.2.4	Applies to all devices with transmitters	PASS
4	Duty Cycle	4.2.5.4	Transmitting devices which do not use LBT, DAA, or RFID transmitters operating in the 2 446 to 2 454 MHz band transmitting more than 500 mW e.i.r.p. power level	N/A
5	Additional requirements for FHSS equipment	4.2.6	Equipment utilizing FHSS modulation	N/A
Receiver Parameters				
6	Adjacent channel selectivity	4.3.3	Applies to equipment Category 1 receivers	N/A
7	Blocking or desensitization	4.3.4	Applies to category 1 and 2 receivers	N/A
8	Spurious radiation	4.3.5	Applies to all receivers, except receivers used in combination with permanently co-located transmitters continuously transmitting	PASS
9	Spectrum access techniques	4.4	Equipment which are not using duty cycle restrictions for media access	N/A
10	GBSAR antenna pattern	4.6.4	Applies only GBSAR systems	N/A
11	Limits for GBSAR	Annex F	Applies only GBSAR systems	N/A
Note: 1.N/A is an abbreviation for Not Applicable and means this test item is not applicable for this device according to the technology characteristic of device. 2. The wireless module WCT2GM2511, WXT52M2511 included in the device passed the RED certification, when applied to the host, Re-test RSE of 5G Wi-Fi function, all other test data refer to module test report 4790119556.2-10 & 4791023025-1-RF-5.				

2.2. Test Facilities

EMC Lab : Accredited by CNAS, CHINA
Registration No.: L5288
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA
Designation Number: CN1215
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan
Registration No.: C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Recognized by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 18GHz)	$\pm 4.96\text{dB}$
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

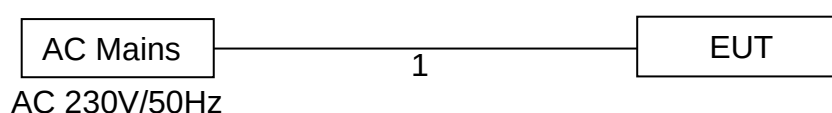
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable

2.5.Block Diagram

For radiated emissions test: EUT was placed on a turntable, which is 1.5 meters high above ground.



(EUT: Interactive Flat Panel Display)

2.6. Test Mode

Test Item	Test Mode	Modulation	Date Rate	Test Channel
Unwanted emissions in the spurious domain	IEEE 802.11a	OFDM	6Mbps	149/157/165
	IEEE 802.11n HT20	OFDM	MCS0	149/157/165
	IEEE 802.11n HT40	OFDM	MCS0	151/159
	IEEE 802.11ac VHT20	OFDM	MCS0	149/157/165
	IEEE 802.11ac VHT40	OFDM	MCS0	151/159
	IEEE 802.11ac VHT80	OFDM	MCS0	155
	IEEE 802.11ax HE20	OFDMA	MCS0	149/157/165
	IEEE 802.11ax HE40	OFDMA	MCS0	151/159
	IEEE 802.11ax HE80	OFDMA	MCS0	155
Spurious radiations	Recevie Mode	-	-	-

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.
2. Where the equipment has an external connection for general data modulation, the normal test signals are specified as follows:

D-M2: A test signal representing a pseudo-random bit sequence of at least 511 bits in accordance with Recommendation ITU-T O.153 [5]. This sequence shall be continuously repeated. If the sequence cannot be continuously repeated, the actual method used shall be stated in the test report.

D-M3: A test signal shall be agreed between the test laboratory and the manufacturer in case selective messages are used and are generated or decoded within the equipment.

The agreed test signal may be formatted and may contain error detection and correction.

2.7. Test Conditions

Test Conditions	Normal test conditions	Extreme test conditions
Temperature	22.3°C	0°C to +45°C
Relative Humidity	52%	N/A
Voltage	230V/50Hz	207V/50Hz to 253V/50Hz

2.8. Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-3	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	149	5745
		153	5765
		157	5785
		161	5805
		165	5825
	IEEE 802.11n HT 40 & ac VHT40 & ax HE40	151	5755
		159	5795
	IEEE 802.11ac VHT80 & ax HE80	155	5775

2.9. Test Equipment List

For Radiated Emissions Test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,25	June 10,26
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 11,25	June 10,26
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For Radiated Emission Test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 11,25	June 10,26
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 11,25	June 10,26
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 11,25	June 10,26
Spectrum Analyzer	Rohde &Schwarz	FSV40	EST-E069	LISAI	June 11,25	June 10,26
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

3.UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

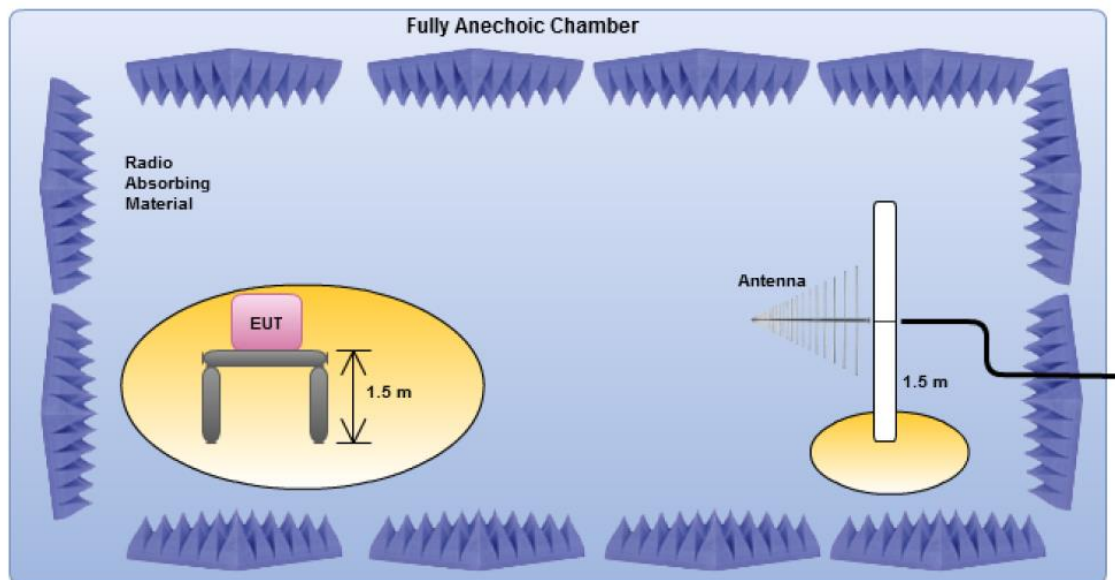
3.1.Applicability

Apply to all transmitters.

3.2.Limit

Frequency ranges	47 MHz to 74 MHz 87,5 MHz to 108 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤1 000 MHz	Frequencies > 1 000 MHz
State			
Operating	4 nW	250 nW	1 μ W
Standby	2 nW	2 nW	20 nW

3.3.Test Setup



3.4.Test Procedure

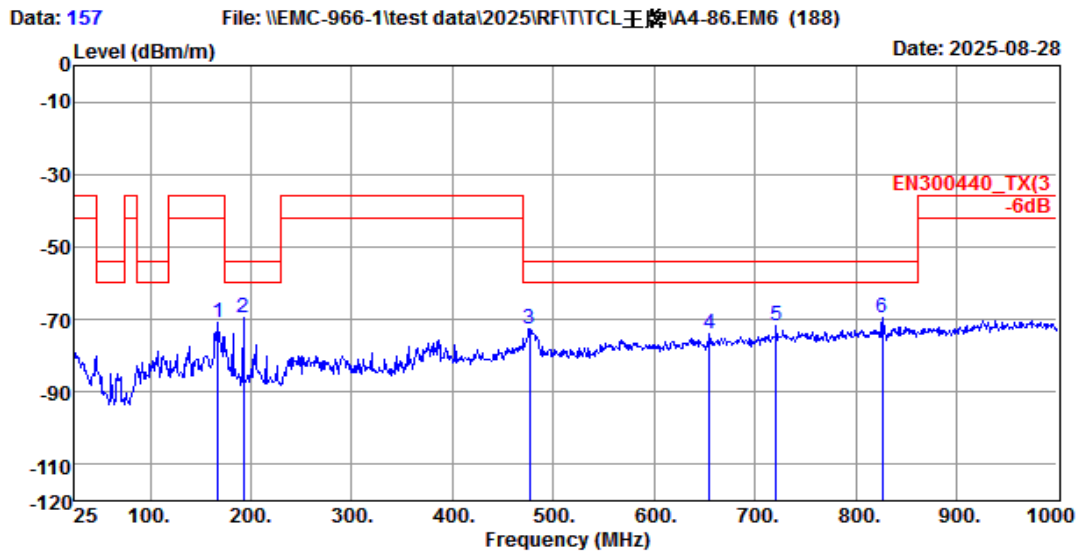
- EUT was placed on a turn table, which is 1.5 meter high above ground.
- Test Antenna is set 3 meters away from the EUT, which is connected to a spectrum analyzer.
- Set the EUT to transmit continuously with maximum output power.
- The measurement procedure refers to section 4.2.3.3 of ETSI EN300 440 V2.1.1.
- Repeat step a to step d until all modes and channels were measured.
- Record the results in the test report.

3.5.Test Result

25MHz-1000MHz

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Site no. : 1# 966 Chamber Data no. : 157
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : EN300440_TX(3)
Env. / Ins. : Temp:22.6°C;Humi:51.5%;Press:101.55kPa
Engineer : ZQL
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : TX Mode
WXT52M2511

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Correction		Limits (dBm)	Margin (dB)	Type
					Factor (dB)	Level (dBm)			
1	167.35	10.30	1.92	-92.72	9.70	-70.80	-36.00	34.80	erp
2	192.70	9.32	2.07	-90.47	9.70	-69.38	-54.00	15.38	erp
3	476.43	17.58	3.46	-103.19	9.70	-72.45	-54.00	18.45	erp
4	654.85	20.35	4.13	-108.30	9.70	-74.12	-54.00	20.12	erp
5	721.15	20.95	4.36	-106.88	9.70	-71.87	-54.00	17.87	erp
6	826.45	22.29	4.73	-106.44	9.70	-69.72	-54.00	15.72	erp

Remarks: 1. Emission Level = Reading+Antenna Factor+Cable Loss+Correction Factor
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

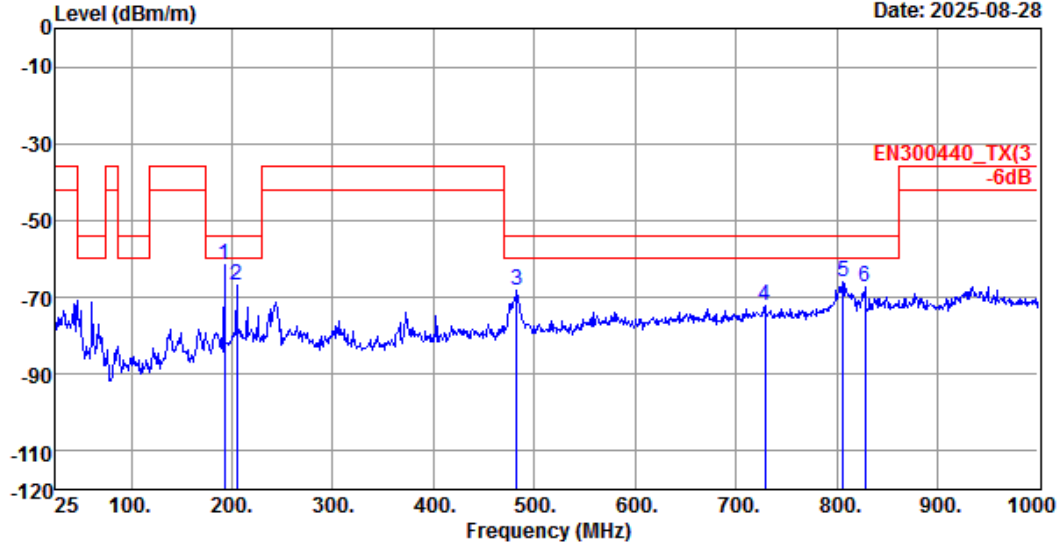
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Data: 158

File: \\EMC-966-1\test data\2025\RF\TCL王牌A4-86.EM6 (188)

Date: 2025-08-28



Site no. : 1# 966 Chamber Data no. : 158
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN300440_TX(3)
Env. / Ins. : Temp:22.6°C;Humi:51.5%;Press:101.55kPa
Engineer : ZQL
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : TX Mode
WXT52M2511

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Correction Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	192.70	9.32	2.07	-82.74	9.70	-61.65	-54.00	7.65	erp
2	204.40	9.35	2.14	-87.98	9.70	-66.79	-54.00	12.79	erp
3	482.28	17.80	3.48	-99.36	9.70	-68.38	-54.00	14.38	erp
4	728.95	21.35	4.39	-107.60	9.70	-72.16	-54.00	18.16	erp
5	805.98	22.04	4.66	-102.58	9.70	-66.18	-54.00	12.18	erp
6	828.40	22.35	4.74	-104.18	9.70	-67.39	-54.00	13.39	erp

Remarks: 1. Emission Level = Reading+Antenna Factor+Cable Loss+Correction Factor
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.



Above 1000MHz

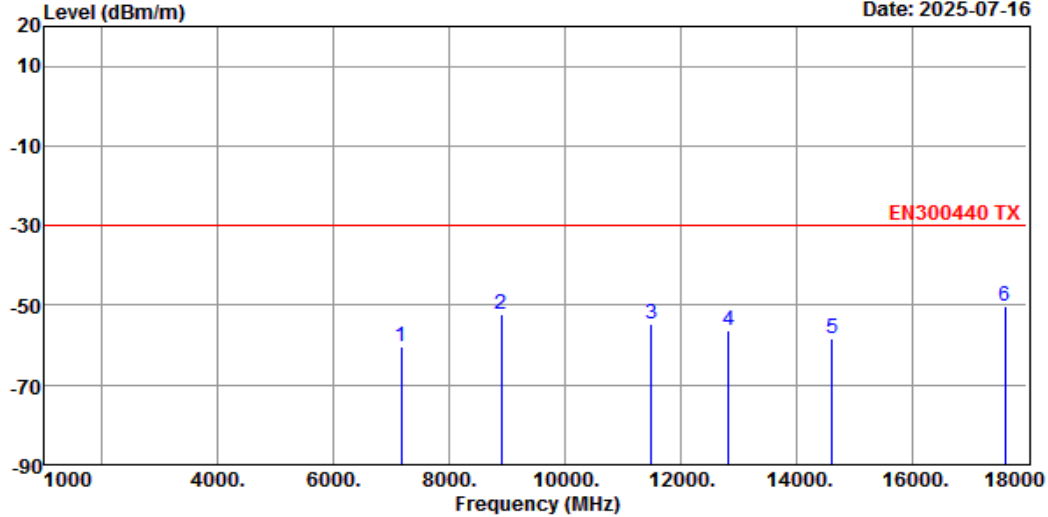
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Data: 143

File: \\EMC-966-1\test data\2025\RF\TTC\王牌A4-86.EM6 (188)

Date: 2025-07-16



Site no. : 1# 966 Chamber Data no. : 143
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : EN300440 TX
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : IEEE 802.11n HT20 TX 5745MHz
WCT2GM2511

	Freq.	Ant.	Cable	Amp	Correction	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
		(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7171.00	36.97	6.69	43.37	-72.30	11.80	-60.21	-30.00	30.21	eirp
2	8905.00	39.00	7.05	43.02	-66.96	11.80	-52.13	-30.00	22.13	eirp
3	11489.00	39.74	8.84	41.51	-73.52	11.80	-54.65	-30.00	24.65	eirp
4	12832.00	40.27	9.34	39.75	-77.80	11.80	-56.14	-30.00	26.14	eirp
5	14617.00	40.51	10.72	41.30	-79.88	11.80	-58.15	-30.00	28.15	eirp
6	17609.00	44.54	12.96	41.83	-77.83	11.80	-50.36	-30.00	20.36	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.



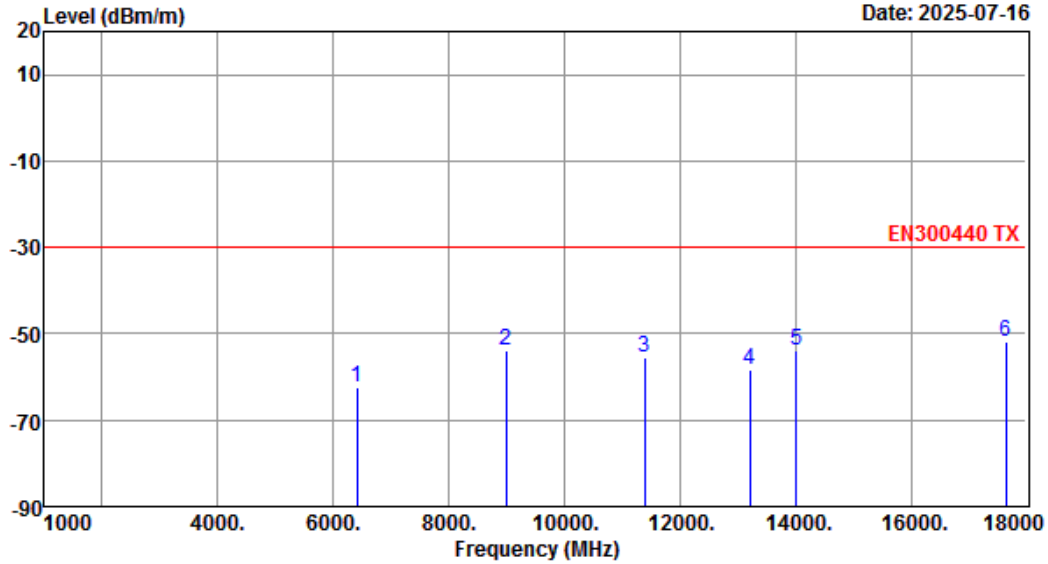
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Data: 144

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-16



Site no. : 1# 966 Chamber Data no. : 144
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : EN300440 TX
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : IEEE 802.11n HT20 TX 5745MHz
WCT2GM2511

	Freq.	Ant.	Cable	Amp		Correction	Emission			
	(MHz)	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
		(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	6406.00	35.70	6.19	43.40	-72.62	11.80	-62.33	-30.00	32.33	eirp
2	8990.00	38.42	7.06	43.00	-68.16	11.80	-53.88	-30.00	23.88	eirp
3	11387.00	39.67	8.83	41.61	-74.37	11.80	-55.68	-30.00	25.68	eirp
4	13206.00	40.67	9.59	39.58	-80.63	11.80	-58.15	-30.00	28.15	eirp
5	14022.00	42.06	10.23	39.94	-78.04	11.80	-53.89	-30.00	23.89	eirp
6	17643.00	44.72	12.97	41.79	-79.50	11.80	-51.80	-30.00	21.80	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

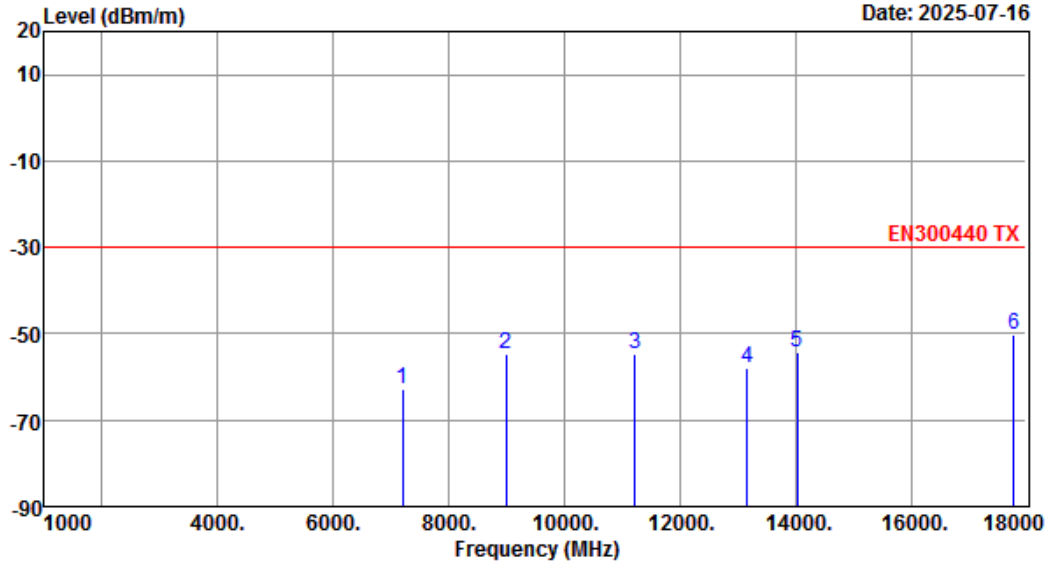
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Data: 145

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-16



Site no. : 1# 966 Chamber Data no. : 145
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : EN300440 TX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : IEEE 802.11n HT20 TX 5825MHz
 WCT2GM2511

	Freq.	Ant.	Cable	Amp		Correction	Emission			
	(MHz)	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
		(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7205.00	37.10	6.70	43.36	-75.18	11.80	-62.94	-30.00	32.94	eirp
2	8990.00	38.42	7.06	43.00	-69.12	11.80	-54.84	-30.00	24.84	eirp
3	11217.00	39.55	8.80	41.78	-72.85	11.80	-54.48	-30.00	24.48	eirp
4	13172.00	40.61	9.56	39.57	-80.49	11.80	-58.09	-30.00	28.09	eirp
5	14039.00	42.01	10.25	39.98	-78.31	11.80	-54.23	-30.00	24.23	eirp
6	17779.00	45.43	12.99	41.64	-78.99	11.80	-50.41	-30.00	20.41	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

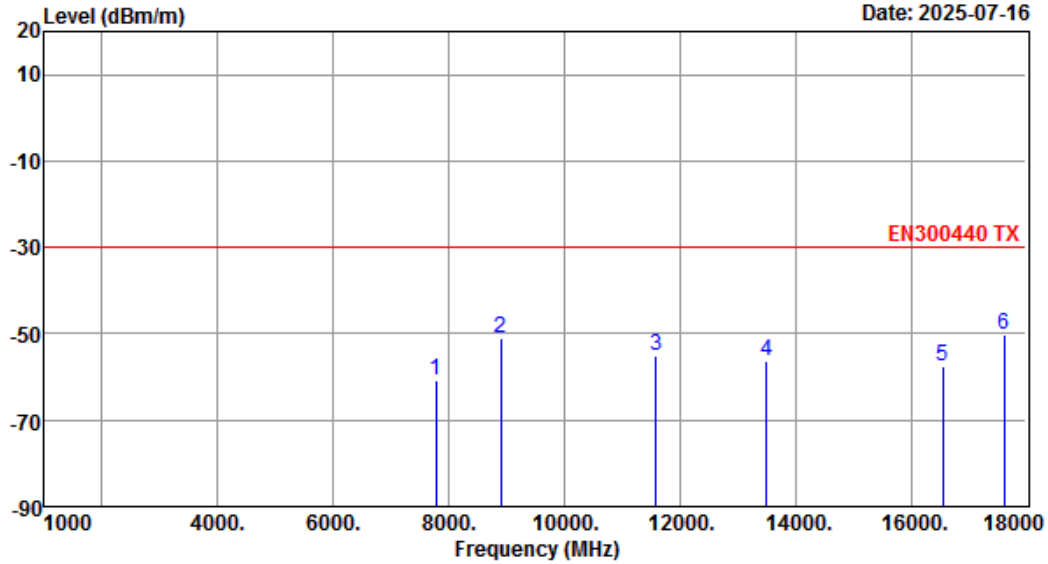
EST Technology

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Data: 146

File: \\EMC-966-1\test data\2025\RF\TCL王牌A4-86.EM6 (188)

Date: 2025-07-16



Site no. : 1# 966 Chamber Data no. : 146
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : EN300440 TX
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : IEEE 802.11n HT20 TX 5825MHz
WCT2GM2511

	Freq.	Ant.	Cable	Amp		Correction	Emission			
	(MHz)	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
		(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7783.00	36.55	6.87	43.24	-72.59	11.80	-60.61	-30.00	30.61	eirp
2	8905.00	39.00	7.05	43.02	-65.97	11.80	-51.14	-30.00	21.14	eirp
3	11591.00	39.82	8.86	41.41	-74.08	11.80	-55.01	-30.00	25.01	eirp
4	13495.00	41.18	9.82	39.70	-79.54	11.80	-56.44	-30.00	26.44	eirp
5	16555.00	39.86	12.29	42.59	-78.78	11.80	-57.42	-30.00	27.42	eirp
6	17609.00	44.54	12.96	41.83	-77.80	11.80	-50.33	-30.00	20.33	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

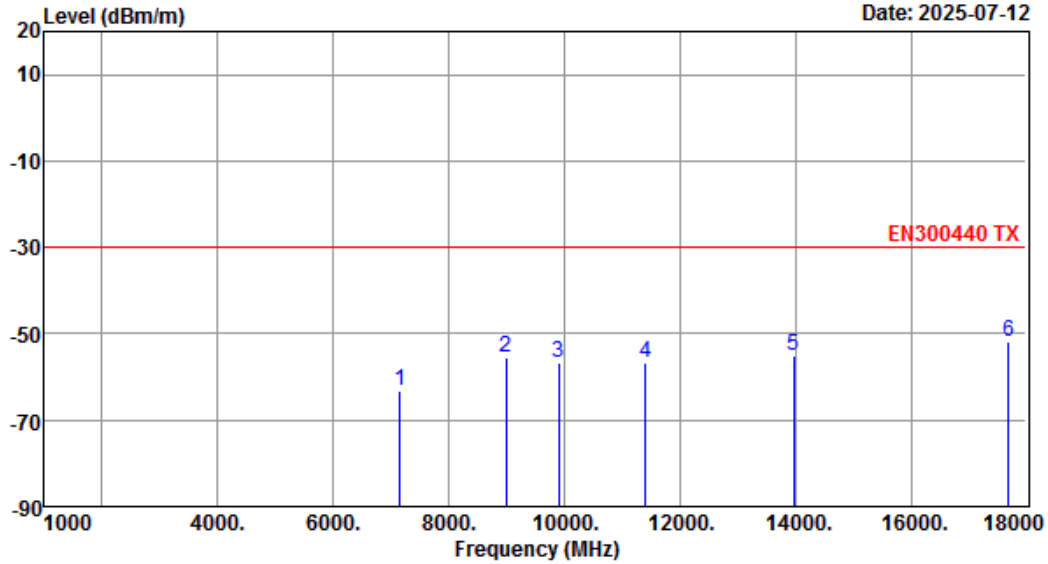
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Data: 105

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 105
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : EN300440 TX
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : IEEE 802.11ax HE20 TX 5745MHz
WXT52M2511

		Ant.	Cable	Amp		Correction	Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7154.00	36.90	6.69	43.37	-75.25	11.80	-63.23	-30.00	33.23	eirp
2	8990.00	38.42	7.06	43.00	-69.75	11.80	-55.47	-30.00	25.47	eirp
3	9908.00	39.30	8.02	42.73	-73.15	11.80	-56.76	-30.00	26.76	eirp
4	11404.00	39.68	8.83	41.59	-75.48	11.80	-56.76	-30.00	26.76	eirp
5	13971.00	42.04	10.19	39.89	-79.26	11.80	-55.12	-30.00	25.12	eirp
6	17694.00	44.99	12.98	41.74	-80.05	11.80	-52.02	-30.00	22.02	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

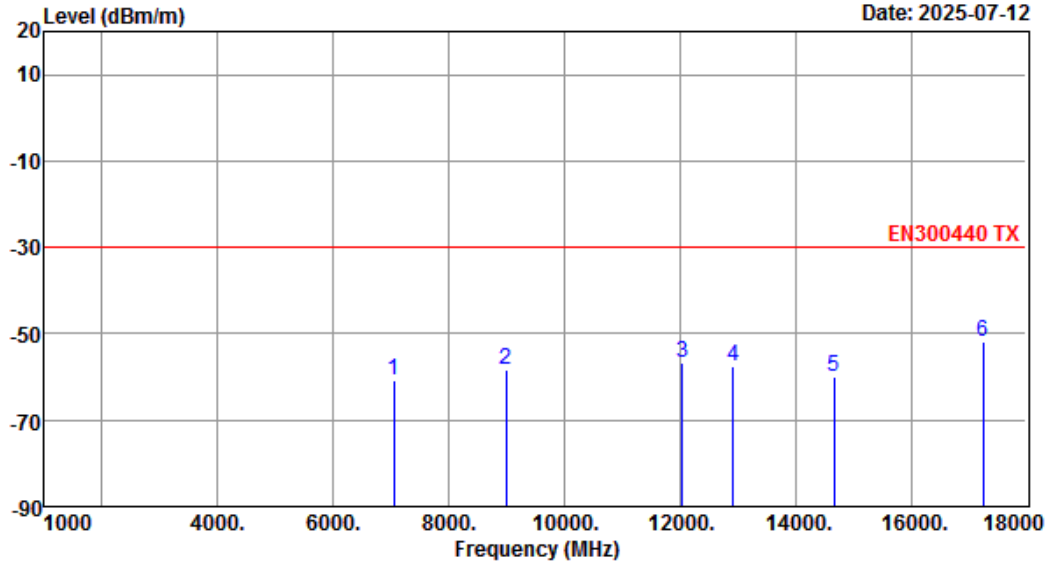
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Data: 106

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 106
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : EN300440 TX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : IEEE 802.11ax HE20 TX 5745MHz
 WXT52M2511

		Ant.	Cable	Amp		Correction	Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7052.00	36.30	6.66	43.39	-72.28	11.80	-60.91	-30.00	30.91	eirp
2	8990.00	38.42	7.06	43.00	-72.81	11.80	-58.53	-30.00	28.53	eirp
3	12050.00	40.11	8.95	40.92	-76.62	11.80	-56.68	-30.00	26.68	eirp
4	12917.00	40.28	9.39	39.63	-79.20	11.80	-57.36	-30.00	27.36	eirp
5	14668.00	40.38	10.76	41.42	-81.42	11.80	-59.90	-30.00	29.90	eirp
6	17252.00	42.35	12.88	42.22	-76.70	11.80	-51.89	-30.00	21.89	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

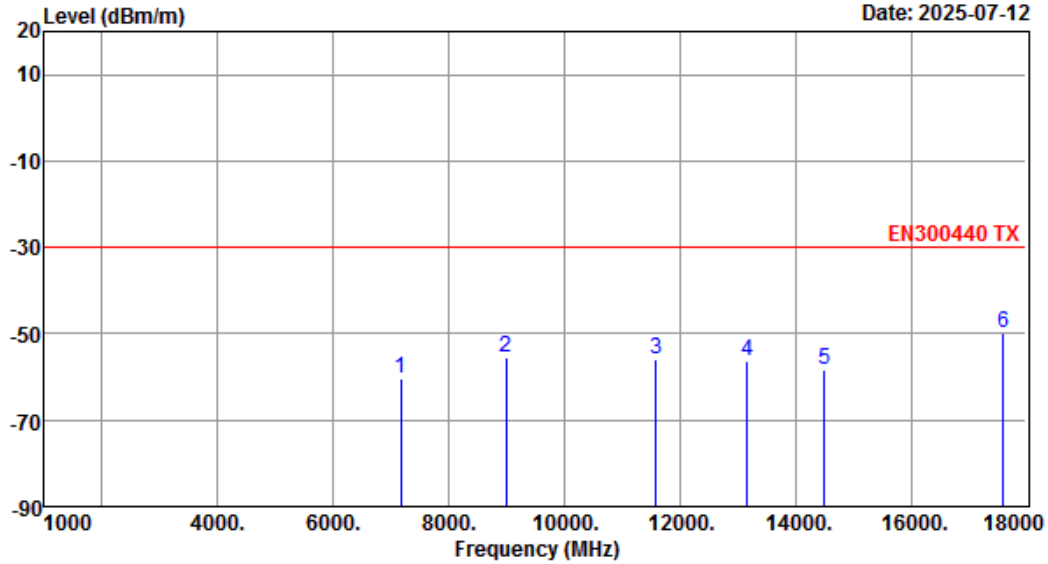
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Data: 107

File: \\EMC-966-1\test data\2025\RF\TCL王牌A4-86.EM6 (188)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 107
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : EN300440 TX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : IEEE 802.11ax HE20 TX 5825MHz
 WXT52M2511

		Ant.	Cable	Amp		Correction	Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7171.00	36.97	6.69	43.37	-72.65	11.80	-60.56	-30.00	30.56	eirp
2	8990.00	38.42	7.06	43.00	-69.91	11.80	-55.63	-30.00	25.63	eirp
3	11591.00	39.82	8.86	41.41	-75.16	11.80	-56.09	-30.00	26.09	eirp
4	13172.00	40.61	9.56	39.57	-78.87	11.80	-56.47	-30.00	26.47	eirp
5	14498.00	40.82	10.62	41.03	-80.64	11.80	-58.43	-30.00	28.43	eirp
6	17592.00	44.45	12.95	41.85	-77.27	11.80	-49.92	-30.00	19.92	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

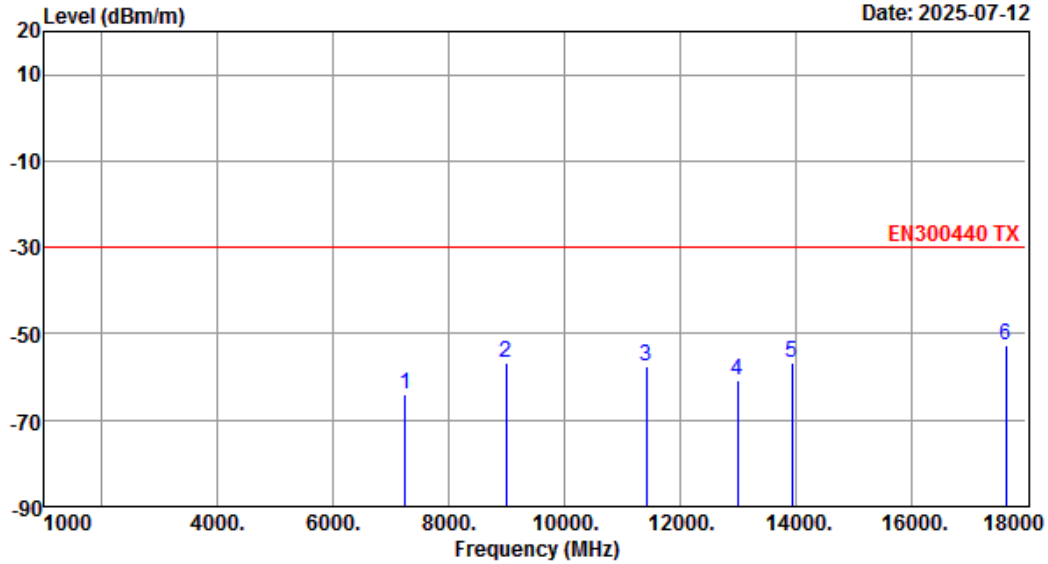
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Data: 108

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 108
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : EN300440 TX
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron Zhang
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : IEEE 802.11ax HE20 TX 5825MHz
WXT52M2511

	Freq.	Ant.	Cable	Amp		Correction	Emission			
	(MHz)	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
		(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	7239.00	36.80	6.71	43.35	-76.15	11.80	-64.19	-30.00	34.19	eirp
2	8990.00	38.42	7.06	43.00	-71.09	11.80	-56.81	-30.00	26.81	eirp
3	11421.00	39.70	8.83	41.58	-76.21	11.80	-57.46	-30.00	27.46	eirp
4	13002.00	40.30	9.43	39.50	-82.69	11.80	-60.66	-30.00	30.66	eirp
5	13937.00	41.98	10.17	39.87	-80.96	11.80	-56.88	-30.00	26.88	eirp
6	17643.00	44.72	12.97	41.79	-80.40	11.80	-52.70	-30.00	22.70	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

4.SPURIOUS RADIATIONS

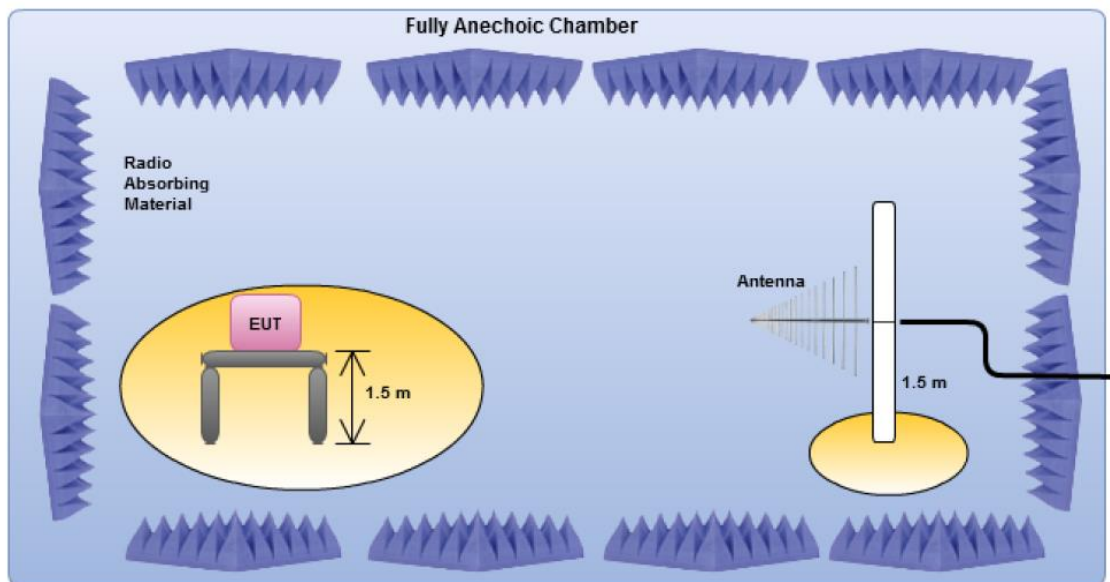
4.1.Applicability

This requirement applies to all receivers, except receivers used in combination with permanently co-located transmitters continuously transmitting. Co-located is defined as < 3 m. In these cases the receivers will be tested together with the transmitter in operating mode

4.2.Limit

The power of any spurious emission shall not exceed 2 nW in the range 25 MHz to 1 GHz and shall not exceed 20 nW on frequencies above 1 GHz.

4.3.Test Setup



4.4.Test Procedure

- EUT was placed on a turn table, which is 1.5 meter high above ground.
- Test Antenna is set 3 meters away from the EUT, which is connected to a spectrum analyzer.
- Set the EUT into receiving mode.
- The measurement procedure refers to section 4.3.5.3 of ETSI EN300 440 V2.1.1.
- Record the results in the test report.

4.5. Test Result

25MHz-1000MHz

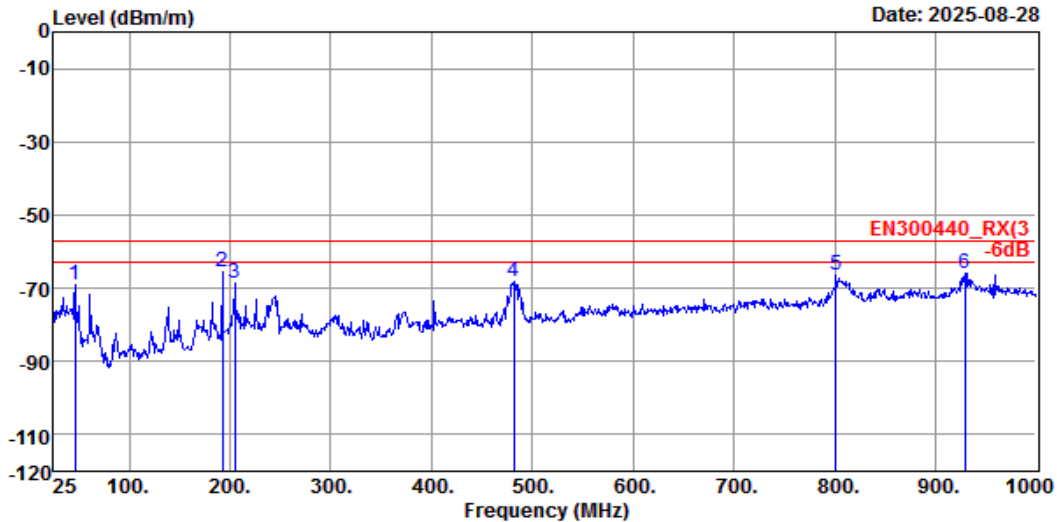
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Data: 159

File: \\EMC-966-1\test data\2025\RF\TCL王牌A4-86.EM6 (188)

Date: 2025-08-28



Site no. : 1# 966 Chamber Data no. : 159
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN300440_RX(3)
Env. / Ins. : Temp:22.6°C;Humi:51.5%;Press:101.55kPa
Engineer : ZQL
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : RX Mode
WXT52M2511

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Correction Factor (dB)	Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	46.45	10.50	0.94	-90.34	9.70	-69.20	-57.00	12.20	erp
2	192.70	9.32	2.07	-86.73	9.70	-65.64	-57.00	8.64	erp
3	204.40	9.35	2.14	-89.92	9.70	-68.73	-57.00	11.73	erp
4	481.30	17.80	3.48	-99.14	9.70	-68.16	-57.00	11.16	erp
5	801.10	22.09	4.64	-102.89	9.70	-66.46	-57.00	9.46	erp
6	928.83	23.84	5.07	-104.40	9.70	-65.79	-57.00	8.79	erp

Remarks: 1. Emission Level = Reading+Antenna Factor+Cable Loss+Correction Factor
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

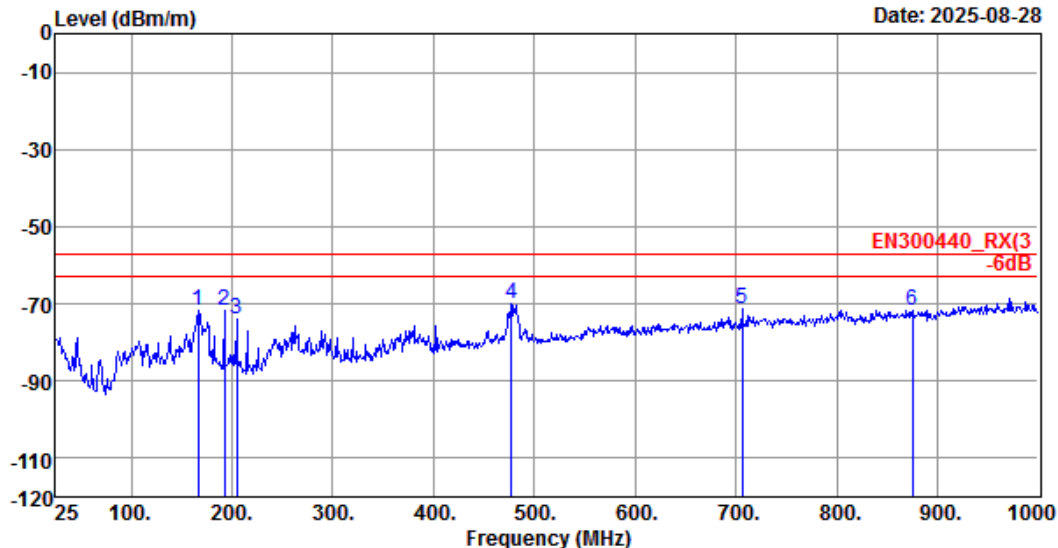
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Data: 160

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-08-28



Site no. : 1# 966 Chamber Data no. : 160
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : EN300440_RX(3)
Env. / Ins. : Temp:22.6°C;Humi:51.5%;Press:101.55kPa
Engineer : ZQL
EUT : Interactive Flat Panel Display
Power : AC 230V/50Hz
M/N : A4-86
Test Mode : RX Mode
WXT52M2511

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Correction		Limits (dBm)	Margin (dB)	Type
					Factor (dB)	Level (dBm)			
1	166.38	10.40	1.91	-93.56	9.70	-71.55	-57.00	14.55	erp
2	192.70	9.32	2.07	-92.86	9.70	-71.77	-57.00	14.77	erp
3	204.40	9.35	2.14	-95.19	9.70	-74.00	-57.00	17.00	erp
4	477.40	17.64	3.46	-100.56	9.70	-69.76	-57.00	12.76	erp
5	706.53	20.63	4.31	-105.77	9.70	-71.13	-57.00	14.13	erp
6	875.20	22.80	4.90	-108.98	9.70	-71.58	-57.00	14.58	erp

Remarks: 1. Emission Level = Reading+Antenna Factor+Cable Loss+Correction Factor
2. Margin = Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Above 1000MHz

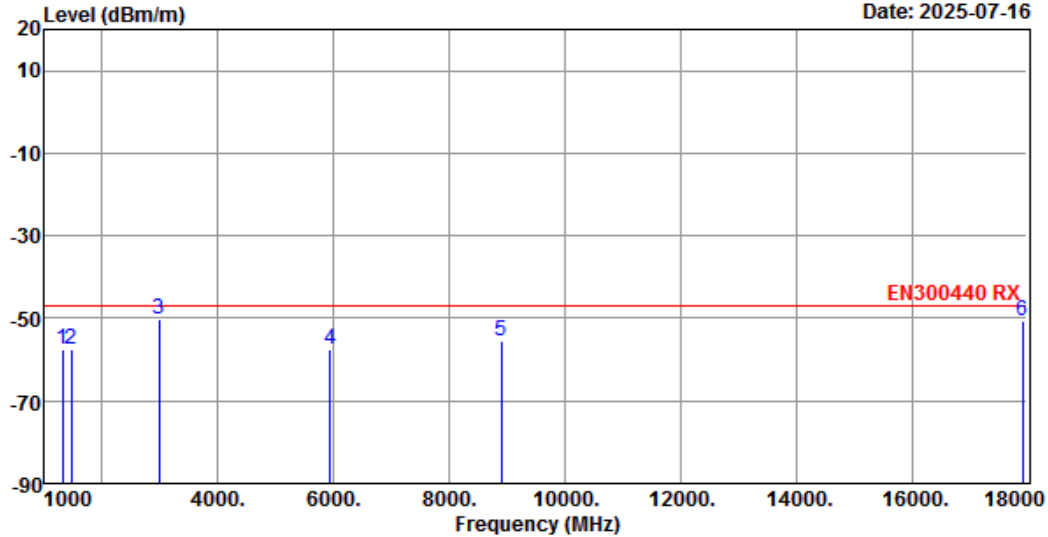
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Data: 147

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-16



Site no. : site Data no. : 147
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : EN300440 RX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : RX Mode
 WCT2GM2511

		Ant.	Cable	Amp		Correction	Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	1306.00	26.00	2.51	45.50	-52.25	11.80	-57.44	-47.00	10.44	eirp
2	1459.00	25.90	2.65	45.31	-52.54	11.80	-57.50	-47.00	10.50	eirp
3	2972.00	27.93	4.01	43.44	-50.59	11.80	-50.29	-47.00	3.29	eirp
4	5947.00	33.40	5.86	43.39	-65.08	11.80	-57.41	-47.00	10.41	eirp
5	8905.00	39.00	7.05	43.02	-70.23	11.80	-55.40	-47.00	8.40	eirp
6	17915.00	46.15	13.02	41.49	-80.19	11.80	-50.71	-47.00	3.71	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

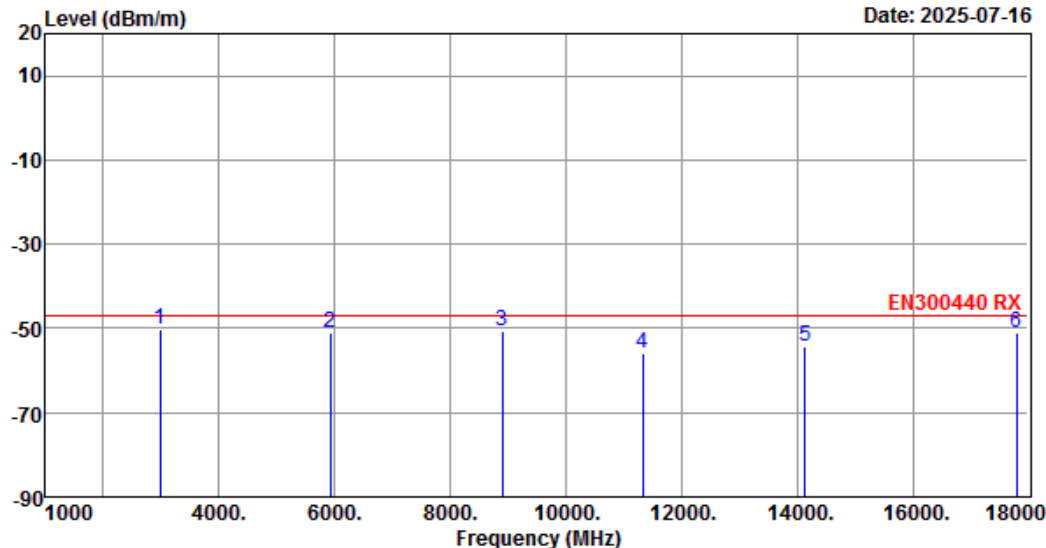
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Data: 148

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-16



Site no. : 1# 966 Chamber Data no. : 148
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : EN300440 RX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : RX Mode
 WCT2GM2511

		Ant.	Cable	Amp		Correction	Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	2972.00	27.93	4.01	43.44	-50.52	11.80	-50.22	-47.00	3.22	eirp
2	5930.00	33.40	5.85	43.39	-58.85	11.80	-51.19	-47.00	4.19	eirp
3	8905.00	39.00	7.05	43.02	-65.29	11.80	-50.46	-47.00	3.46	eirp
4	11336.00	39.64	8.82	41.66	-74.58	11.80	-55.98	-47.00	8.98	eirp
5	14141.00	41.75	10.33	40.21	-78.05	11.80	-54.38	-47.00	7.38	eirp
6	17796.00	45.52	13.00	41.62	-79.93	11.80	-51.23	-47.00	4.23	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

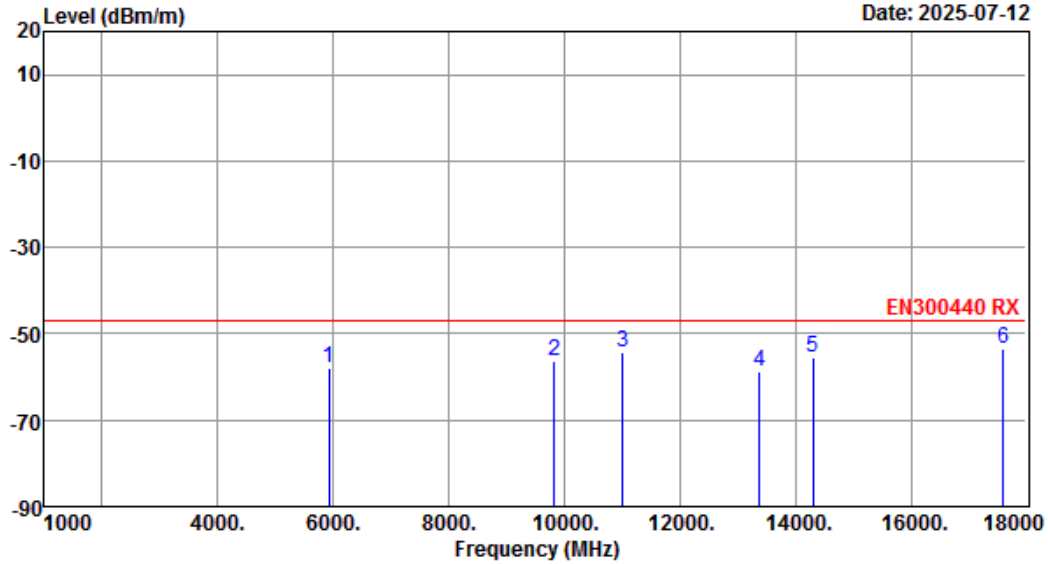
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Data: 109

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 109
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : EN300440 RX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : RX Mode
 WXT52M2511

		Ant.	Cable	Amp	Correction		Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	5930.00	33.40	5.85	43.39	-65.53	11.80	-57.87	-47.00	10.87	eirp
2	9823.00	39.72	7.93	42.75	-73.08	11.80	-56.38	-47.00	9.38	eirp
3	11013.00	39.41	8.77	41.98	-72.44	11.80	-54.44	-47.00	7.44	eirp
4	13376.00	40.97	9.72	39.65	-81.66	11.80	-58.82	-47.00	11.82	eirp
5	14311.00	41.31	10.47	40.60	-78.33	11.80	-55.35	-47.00	8.35	eirp
6	17592.00	44.45	12.95	41.85	-80.72	11.80	-53.37	-47.00	6.37	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

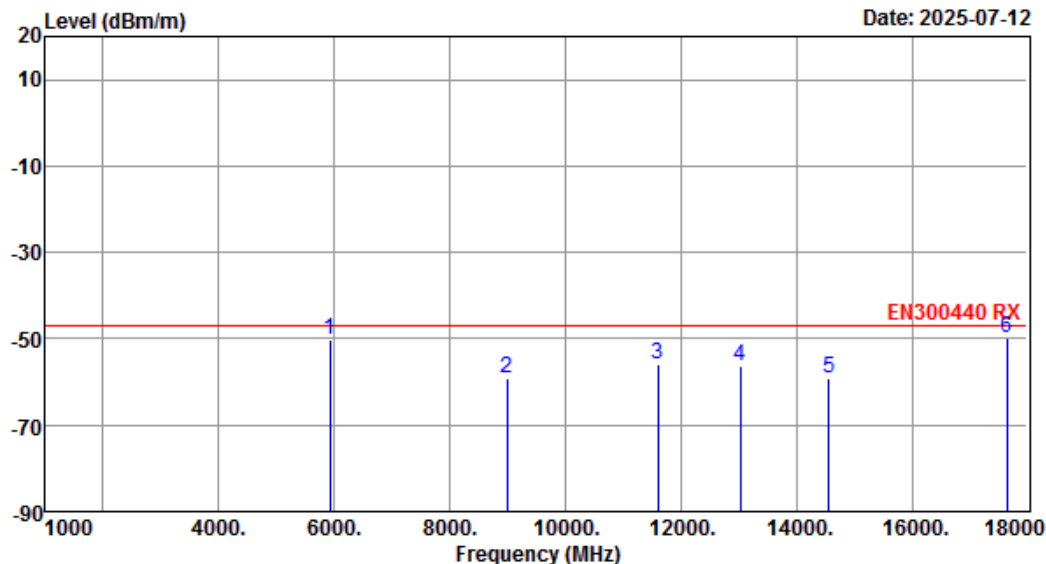
EST Technology

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Fax: +86-769-83081878

Data: 110

File: \\EMC-966-1\test data\2025\RF\TCL王牌\A4-86.EM6 (188)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 110
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : EN300440 RX
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aron Zhang
 EUT : Interactive Flat Panel Display
 Power : AC 230V/50Hz
 M/N : A4-86
 Test Mode : RX Mode
 WXT52M2511

		Ant.	Cable	Amp		Correction	Emission			
	Freq.	Factor	Loss	Factor	Reading	Factor	Level	Limits	Margin	Type
	(MHz)	(dB/m)	(dB)	(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
1	5930.00	33.40	5.85	43.39	-57.78	11.80	-50.12	-47.00	3.12	eirp
2	8990.00	38.42	7.06	43.00	-73.33	11.80	-59.05	-47.00	12.05	eirp
3	11608.00	39.83	8.86	41.39	-74.93	11.80	-55.83	-47.00	8.83	eirp
4	13036.00	40.36	9.46	39.51	-78.60	11.80	-56.49	-47.00	9.49	eirp
5	14566.00	40.65	10.68	41.19	-81.05	11.80	-59.11	-47.00	12.11	eirp
6	17643.00	44.72	12.97	41.79	-77.58	11.80	-49.88	-47.00	2.88	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss-Amp Factor+Correction Factor
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

5. PHOTOGRAPHS OF TEST SETUP

Below 1GHz



Above 1GHz



6.EUT PHOTO

Refer to report no. ESTE-R2507203

End of Test Report