

■ Report No.: DDT-R19091104-1E4 Rev.01

■ Issued Date: Mar. 01, 2021

FCC AND IC CERTIFICATION TEST REPORT

FOR

Applicant	:	LOUD AUDIO, LLC
Address	• •	19820 North Creek Parkway #201 Bothell, WA 98011-8227, USA
Equipment under Test	••	MULTIMEDIA MONITORS w/ BLUETOOTH
Model No.		CR5-XBT
Trade Mark	••	
FCC ID		2AD4XCR5XBT
IC	A	12714A-CR5XBT
Manufacturer	•	LOUD AUDIO, LLC
Address	:	19820 North Creek Parkway #201 Bothell, WA 98011-8227, USA

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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TEST REPORT DECLARE

Applicant		LOUD AUDIO, LLC		
Address	:	9820 North Creek Parkway #201 Bothell, WA 98011-8227, JSA		
Equipment under Test	:	ULTIMEDIA MONITORS w/ BLUETOOTH		
Model No.	:	CR5-XBT		
Trade mark				
Manufacturer	/	LOUD AUDIO, LLC		
Address	:	19820 North Creek Parkway #201 Bothell, WA 98011-8227, USA		

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

Test procedure used:

ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&IC standards.

Report No.:	DDT-R19091104-1E4 Re	v.01			
Date of Receipt:	Oct. 10, 2020	Date of Test:	Oct. 10, 2020 ~ Mar. 01, 2021		

Prepared By:

Talent Zhang/Engineer

Talent Zhan

Approved By:

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
	Initial issue ®	Jan. 20, 2020	®
Rev.01	PCB re-layout, the Bluetooth module remains unchanged, this change does not affect the RF performance, only the radiated Emission belowe 1G and power Line Conducted Emissions are evaluated.	Mar. 01, 2021	Talent Zhang

1. Summary of test results

Description of Test Item	Standard	Results
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 RSS-247 Issue 2 RSS-Gen Issue 5	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013 RSS-Gen Issue 5	PASS

2. General test information

2.1. Description of EUT

EUT* Name	:	MULTIMEDIA MONITORS w/ BLUETOOTH	
Model Number	:	CR5-XBT	
EUT function description	9:	Please reference user manual of this device	
Power supply	:	AC 100-240V, 50-60Hz	
Radio Specification	:	Bluetooth V4.2	
Operation frequency	:	2402MHz-2480MHz	
Modulation	:	GFSK, π/4-DQPSK, 8DPSK	
Data rate	:	1 Mbps, 2 Mbps, 3 Mbps	
Antenna Type	:	Integral PCB antenna, maximum PK gain: 0.5 dBi	
Sample Type	:	Series production	

Note: EUT is the ab. of equipment under test.

Channel inform	nation	*		×	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431 [®]	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	® 35	2437	® 62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41 🔞	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472

17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		/
26	2428	53	2455		

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
RCA cable	N/A	N/A	N/A	Length: 1.50m, unshielded
Speaker cable	N/A	® N/A	N/A	Length: 1.95m, unshielded

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
equipment		922	Compliance	700
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad	FCC/CE	TP00015A

2.4. Block diagram of EUT configuration for test

AC Mains	- EUT

Test software: FCC Tool.EXE

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	1	CH0 to CH78	2402 to 2480
π /4-DQPSK hopping on Tx mode	/	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	R /	CH0 to CH78	2402 to 2480
	/	CH0	2402
GFSK hopping off Tx mode	/	CH39	2441
יי סור	/	CH78	2480
	/	CH0	2402
$\pi/4$ -DQPSK hopping off Tx mode	/	CH39	2441
	/	CH78	2480
	r	CH0	2402
8DPSK hopping off Tx mode	- 1	CH39	2441
	1	CH78	2480

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

Uncertainty
1.1%
0.86 dB (10 MHz ≤ f < 3.6 GHz);
1.38 dB (3.6 GHz ≤ f < 8 GHz)
0.74 dB
$0.74 \text{ dB } (10 \text{ MHz} \le f < 3.6 \text{ GHz});$
1.38 dB (3.6 GHz ≤ f < 8 GHz)
6.7 x 10 ⁻⁸ (Antenna couple method)
5.5 x 10 ⁻⁸ (Conducted method)
0.86 dB (10 MHz ≤ f < 3.6 GHz);
1.40 dB (3.6 GHz ≤ f < 8 GHz)
1.66 dB (8 GHz≤ f < 22 GHz)
3×10 ⁻⁸
® 0.4 °C
2 %
4.70 dB (Antenna Polarize: V)
4.84 dB (Antenna Polarize: H)
4.10 dB (1-6 GHz)
4.40 dB (6 GHz-18 GHz)
3.54 dB (18 GHz-26 GHz)
4.30 dB (26 GHz-40 GHz)
3.32 dB (150 kHz-30 MHz)

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

3. Equipment used during test

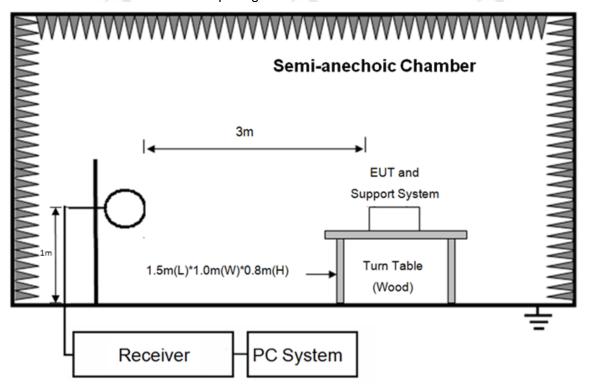
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
⊠Radiation 1#cham		- 31		- 31		
EMI Test Receiver	R&S	ESU8	100316	Sep. 24, 2020	1 Year	
Spectrum analyzer	Agilent	E4447A	MY50180031	Jul. 01, 2020		
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 13, 2020		
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Nov. 18, 2020	1 Year	
Double Ridged Horn Antenna	R&S	HF907	100276	Nov. 13, 2020	1 Year	
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Apr. 11, 2020	1 Year	
Pre-amplifier	A.H.	PAM-0118	360	Sep. 28, 2020	1 Year	
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Sep. 24, 2020	1 Year	
RF Cable	N/A	5m+6m+1m	06270619	Sep. 30, 2020	1 Year	
MI Cable	HUBSER	C10-01-01-1 M	1091629	Sep. 30, 2020	1 Year	
Test software ®	Audix	E3 ®	V 6.11111b	N/A ®	N/A	
☐Radiation 2#cham	ber					
EMI Test Receiver	R&S	ESCI	101364	Sep. 28, 2020	1 Year	
Spectrum analyzer	Agilent	E4447A	MY50180031	Jul. 01, 2020	1 Year	
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-994	Nov. 13, 2020	1 Year	
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Nov. 18, 2020	1 Year	
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 11, 2020	1 Year	
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Apr. 11, 2020	1 Year	
Pre-amplifier	TERA-MW	TRLA-0040 G35	1013 03 ®	Sep. 28, 2020	1 Year	
RF Cable	N/A	14+1.5m	06270619	Sep. 28, 2020	1 Year	
Test software	Audix	E3	V 6.11111b	N/A	N/A	
⊠Power Line Condu	ucted Emission	s Test 1#				
EMI Test Receiver	R&S	ESU8	100316	Sep. 24, 2020	1 Year	
LISN 1	R&S	ENV216	101109	Sep. 28, 2020	1 Year	
LISN 2	R&S	ESH2-Z5	100309	Sep. 28, 2020	1 Year	
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 24, 2020	1 Year	
CE Cable 1	HUBSER	N/A	W10.01	Sep. 24, 2020	1 Year	
Test software	Audix	E3	V 6.11111b	N/A	N/A	
☐Power Line Condu	ucted Emission	s Test 2#				
Test Receiver	R&S	ESPI	101761	Sep. 24, 2020	1 Year	
LISN 1	R&S	ENV216	101170	Sep. 28, 2020	1 Year	
LISN 2	R&S	ESH2-Z5	100309	Sep. 28, 2020	1 Year	

Pulse Limiter	R&S	KH43101	43101180156 8-12#	Jul. 01, 2020	1 Year
CE Cable 2	HUBSER	N/A	W11.02	Sep. 24, 2020	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
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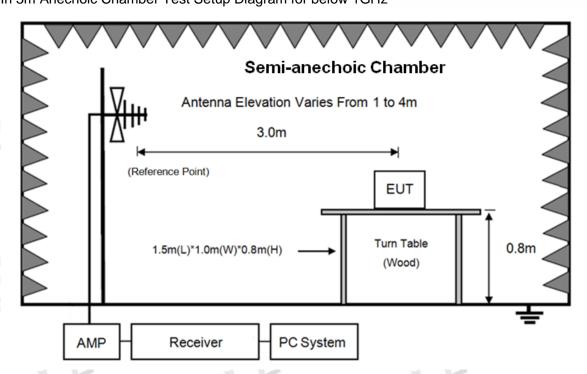
4. Radiated emission

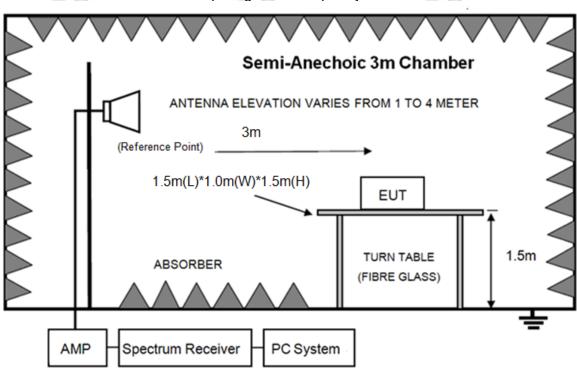
4.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz





In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz

Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of

4.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

(2) FCC 15.209 Limit.

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT		
MHz	Meters	μV/m	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)	
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)	
1.705 ~ 30.0	30	30	29.54	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500 54.0		
Above 1000	2	74.0 dB(μV)/	m (Peak)	
Above 1000	3	54.0 dB(µV)/m (Average)		

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

 $Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

4.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m
1GHz-18GHz	Double Ridged Horn	3m
	Antenna(1GHz-18GHz)	
18GHz-40GHz	Horn Antenna(18GHz-40GHz)	1m

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the

loop is 1 m above the ground. for measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:
- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m (Except loop antenna, it's fixed 1m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - (c) Change modulation type of device if practicable.
 - (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90 kHz,110 kHz-490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz ®

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; RBW 1 MHz VBW 10 Hz for Average measure (according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure).

4.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209

Note1: According exploratory test the emission levels are 20 dB below the limit was detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz.

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 8DPSK, Tx 2480 MHz mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

D:\2021 RE1# Test Data\N\naode\FCC BELOW1G 1G **Test Site** : DDT 3m Chamber 2#

CR5.EM6

Test Date : 2021-02-24 **Tested By** : Kennys

MULTIMEDIA MONITORS w/ **EUT BLUETOOTH**

Model Number : CR5-XBT

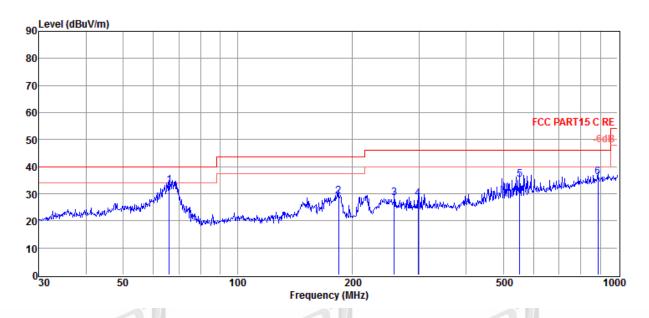
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

: Temp:24.5°C,Humi:55%,Press:100.1kPa Condition

Antenna/Distance: 2019 VULB 9163 2#/3m/HORIZONTAL

Memo



Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		2/
1	66.03	19.09	10.08	3.93	33.10	40.00	-6.90	QP	HORIZONTAL
2	184.49	14.06	10.35	4.76	29.17	43.50	-14.33	QP	HORIZONTAL
3	258.33	10.38	13.04	5.17	28.59	46.00	-17.41	QP	HORIZONTAL
4	298.27	8.88	13.96	5.36	28.20	46.00	-17.80	QP	HORIZONTAL
5	552.88	10.18	18.58	6.54	35.30	46.00	-10.70	QP	HORIZONTAL
6	887.61	6.26	21.99	7.88	36.13	46.00	-9.87	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

D:\2021 RE1# Test Data\N\naode\FCC BELOW1G 1G **Test Site** : DDT 3m Chamber 2#

CR5.EM6

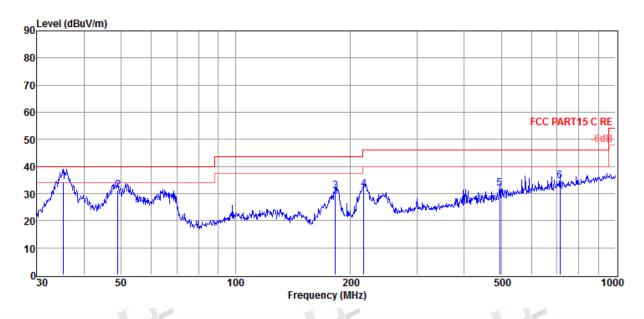
Test Date : 2021-02-24 **Tested By** : Kennys

MULTIMEDIA MONITORS w/ **EUT Model Number** : CR5-XBT BLUETOOTH

Power Supply : AC 120V/60Hz **Test Mode** : Tx mode

: Temp:24.5°C,Humi:55%,Press:100.1kPa Antenna/Distance: 2019 VULB 9163 2#/3m/VERTICAL

Memo



Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
_ 1	35.25	17.30	13.49	3.66	34.45	40.00	-5.55	QP	VERTICAL
2	49.01	13.97	13.41	3.77	31.15	40.00	-8.85	QP	VERTICAL
3	183.20	15.88	10.19	4.75	30.82	43.50	-12.68	QP	VERTICAL
4	217.54	14.67	11.94	4.95	31.56	46.00	-14.44	QP	VERTICAL
5	495.93	7.91	17.62	6.25	31.78	46.00	-14.22	QP	VERTICAL
6	714.17	7.36	20.10	7.23	34.69	46.00	-11.31	QP	VERTICAL

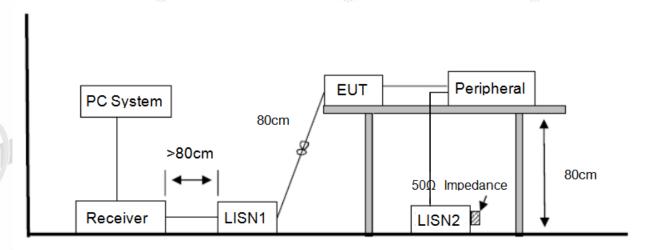
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

5. Power Line Conducted Emission

5.1. Block diagram of test setup



5.2. Power Line Conducted Emission Limits

Frequer	ncy	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~	500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~	5 MHz	56	46
5 MHz ~	30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

5.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

5.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2020 report data\Q20092823-4E\CE.EM6

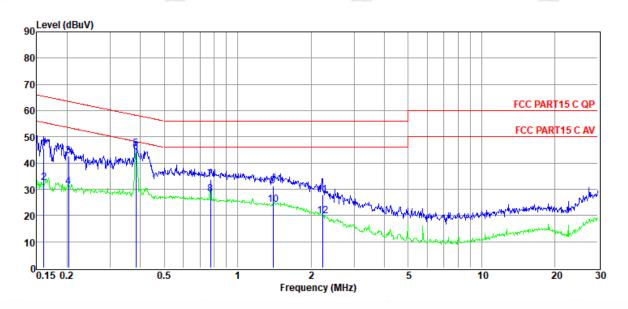
Test Date : 2020-12-11 Tested By : Caesar Peng

EUT : MULTIMEDIA MONITORS w/ BLUETOOTH : CR5-XBT

Power Supply : AC 120V/60Hz Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55.5%,Press:101.4kPa LISN : 2020 ENV 216 2#/NEUTRAL

Memo :



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	"	8
1	0.16	25.92	9.38	0.02	10.01	45.33	65.43	-20.10	QP	NEUTRAL
2	0.16	13.13	9.38	0.02	10.01	32.54	55.43	-22.89	Average	NEUTRAL
® 3	0.20	23.24	9.39	0.02	10.01	42.66	63.49	-20.83	QP	NEUTRAL
4	0.20	11.41	9.39	0.02	10.01	30.83	53.49	-22.66	Average	NEUTRAL
5	0.38	26.03	9.39	0.02	10.01	45.45	58.21	-12.76	QP	NEUTRAL
6	0.38	24.77	9.39	0.02	10.01	44.19	48.21	-4.02	Average	NEUTRAL
7	0.78	14.37	9.40	0.03	10.01	33.81	56.00	-22.19	QP	NEUTRAL
8	0.78	8.68	9.40	0.03	10.01	28.12	46.00	-17.88	Average	NEUTRAL
9	[®] 1.40	11.72	9.41	0.04	10.01	31.18	56.00	-24.82	QP	NEUTRAL®
10	1.40	4.64	9.41	0.04	10.01	24.10	46.00	-21.90	Average	NEUTRAL
11	2.23	8.39	9.42	0.05	10.01	27.87	56.00	-28.13	QP	NEUTRAL
12	2.23	0.46	9.42	0.05	10.01	19.94	46.00	-26.06	Average	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2020 report data\Q20092823-4E\CE.EM6

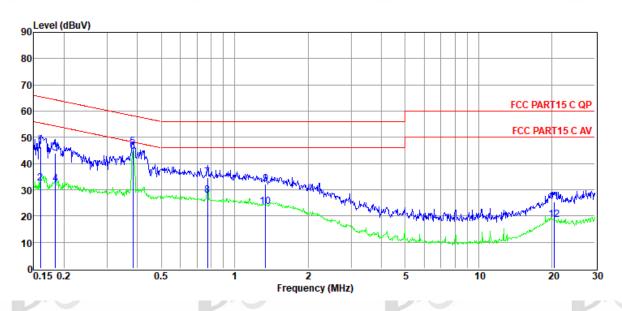
Test Date : 2020-12-11 Tested By : Caesar Peng

EUT : MULTIMEDIA MONITORS w/ BLUETOOTH : CR5-XBT

Power Supply : AC 120V/60Hz Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55.5%,Press:101.4kPa LISN : 2020 ENV 216 2#/LINE

Memo :



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.16	26.88	9.41	0.02	10.01	46.32	65.47	-19.15	QP	LINE
2	0.16	13.14	9.41	0.02	10.01	32.58	55.47	-22.89	Average	LINE
3	0.18	24.51	9.42	0.02	10.01	43.96	64.28	-20.32	QP	LINE
® 4	0.18	12.72	9.42	0.02	10.01	32.17	[®] 54.28	-22.11	Average	LINE
5	0.38	26.85	9.44	0.02	10.01	46.32	58.21	-11.89	QP	LINE
6	0.38	25.20	9.44	0.02	10.01	44.67	48.21	-3.54	Average	LINE
7	0.78	15.31	9.44	0.03	10.01	34.79	56.00	-21.21	QP	LINE
8	0.78	8.21	9.44	0.03	10.01	27.69	46.00	-18.31	Average	LINE
9	1.34	12.61	9.43	0.04	10.01	32.09	56.00	-23.91	QP	LINE
10	1.34	3.91	9.43	0.04	10.01	23.39	46.00	-22.61	Average	LINE
11	20.38	5.59	9.47	0.15	10.02	25.23	60.00	-34.77	QP	LINE
12	20.38	-1.18	9.47	0.15	10.02	18.46	50.00	-31.54	Average	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

END OF REPORT