

FCC Radio Test Report

FCC ID: XHM-J640222

This report concerns (check one) : ☒ Original Grant ☐ Class II Change

Project No. : 1508081
Equipment : POS
Model Name : Aures 640, J2 640
Applicant : FLYTECH Technology Co., Ltd.
Address : 1F, No. 168, Sing-Ai Rd., NeiHu District 11494,
Taipei, Taiwan

Date of Receipt : Aug. 06, 2015
Date of Test : Aug. 06, 2015 ~ Oct. 02, 2015
Issued Date : Oct. 08, 2015
Tested by : BTL Inc.

Testing Engineer

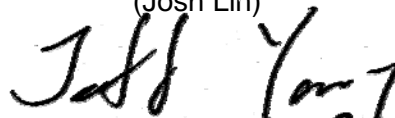
:



(Josh Lin)

Technical Manager

:



(Jeff Yang)

Authorized Signatory

:



(Andy Chiu)

B T L I N C .

B1, No. 37, Lane 365, Yang-guang St.,
Nei-hu District, Taipei City 114, Taiwan.
TEL:+886-2-2657-3299 FAX: +886-2- 2657-3331

Declaration

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issue No.	Description	Issued Date
BTL-FCCP-2-1508081	Original Issue.	Oct. 08, 2015

1 CERTIFICATION

Equipment : POS
Brand Name : FLYTECH
Model Name : Aures 640, J2 640
Applicant : FLYTECH Technology Co., Ltd.
Manufacturer : FLYTECH Technology Co., Ltd.
Address : 1F, No. 168, Sing-Ai Rd., NeiHu District 11494, Taipei, Taiwan
Factory : FLYTECH TECHNOLOGY CO., LTD.
Address : No.36 Huaya 3rd Rd., Guishan Township, Taoyuan Country 33383, Taiwan
Date of Test : Aug. 06, 2015 ~ Oct. 02, 2015
Test Sample : Engineering Sample
Standards : FCC Part 15, Subpart C(15.209): 2014
ANSI C63. 10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1508081) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard Section	Test Item	Result
15.207	Conducted emission	PASS
15.209	Radiated Emission	PASS

NOTE:

1. **N/A**: denotes test is not applicable in this Test Report

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test:

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC/Industry Canada rules and for reference only.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U ,(dB)
C05	CISPR	150 kHz ~ 30MHz	2.04

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U ,(dB)
CB08	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U ,(dB)
CB08	CISPR	30MHz ~ 200MHz	V	3.06
		30MHz ~ 200MHz	H	2.58
		200MHz ~ 1,000MHz	V	3.50
		200MHz ~ 1,000MHz	H	3.10

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	POS	
Brand Name	FLYTECH	
Model Name	Aures 640, J2 640	
Model Difference	For marketing purpose.	
Product Description	Operation Frequency	125 kHz
	Antenna Designation	LOOP Antenna
Power Source	DC Voltage supplied from AC/DC adapter. Brand/Model: DELTA / ADP-65JH HB	
Power Rating	I/P: 100-240V~ 1.5A 50-60Hz O/P: DC 19V 3.42A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3.2 DESCRIPTION OF TEST MODES

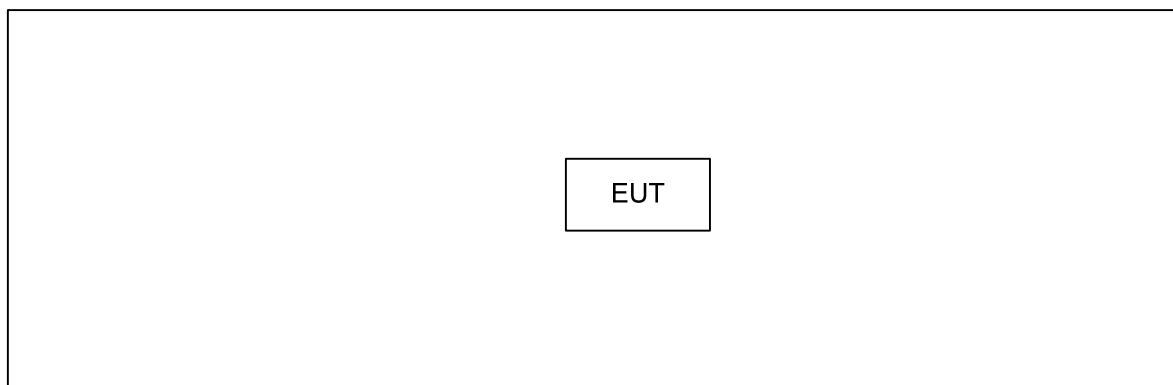
To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	125 KHz Transmit

Conducted emission test	
Final Test Mode	Description
Mode 1	13.56MHz Transmit

Radiated emission test	
Final Test Mode	Description
Mode 1	125 KHz Transmit

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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

Item	Shielded Type	Ferrite Core	Length	Note
-		-	-	-

Note:

- (1) The support equipment was authorized by Declaration of Conformity (DOC).

4 CONDUCTED EMISSION

4.1 LIMITS

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 - 5.0	73.00	60.00	56.00	46.00
5.0 - 30.0	73.00	60.00	60.00	50.00

NOTE:

1. The tighter limit applies at the band edges.
2. The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
3. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value – Limit Value

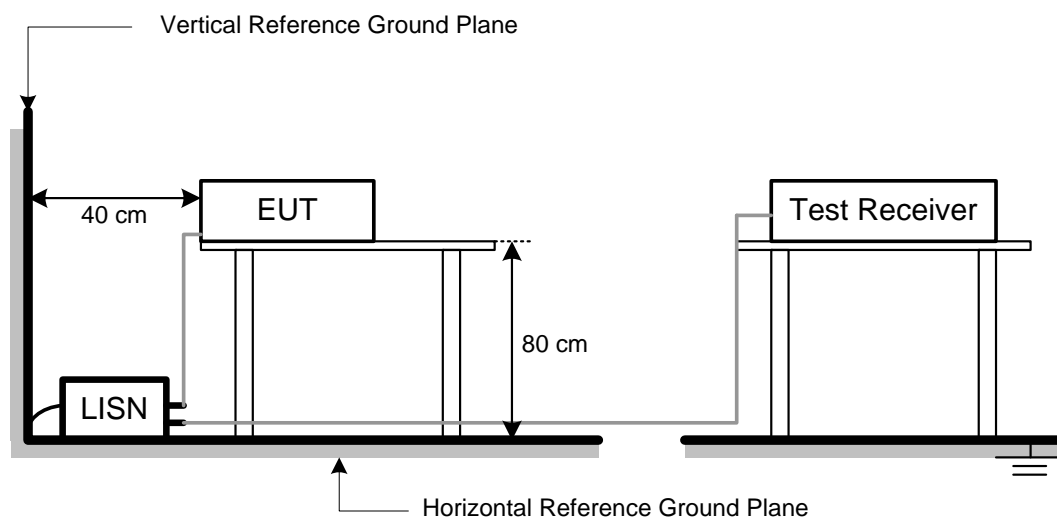
4.2 TEST PROCEDURES

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

- a. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz (6 dB Bandwidth).
- b. All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only Peak or QP Mode was measured, but AVG Mode didn't perform.

4.3 TEST SETUP LAYOUT



4.4 DEVIATION FROM TEST STANDARD

No deviation

4.5 EUT OPERATING CONDITIONS

The EUT used during radiated and/or conducted emission measurement was designed to exercise in a manner similar to a typical use.

Temperature: 24°C Relative Humidity: 59%

4.6 TEST RESULTS

Please refer to the Attachment A.

5 RADIATED EMISSION

5.1 LIMITS

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

NOTE:

- (1) The tighter limit shall apply at the boundary between two frequency range.
- (2) Limitation expressed in dBuV/m is calculated by 20log Emission Level (uV/m).
- (3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d_2/d_1)^2$.
 Example:
 F.S Limit at 30m distance is 30uV/m , then F.S Limitation at 3m distance is adjusted as $L_{d1} = L_1 = 30uV/m * (10)^2 = 100 * 30 uV/m$
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value – Limit Value

5.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

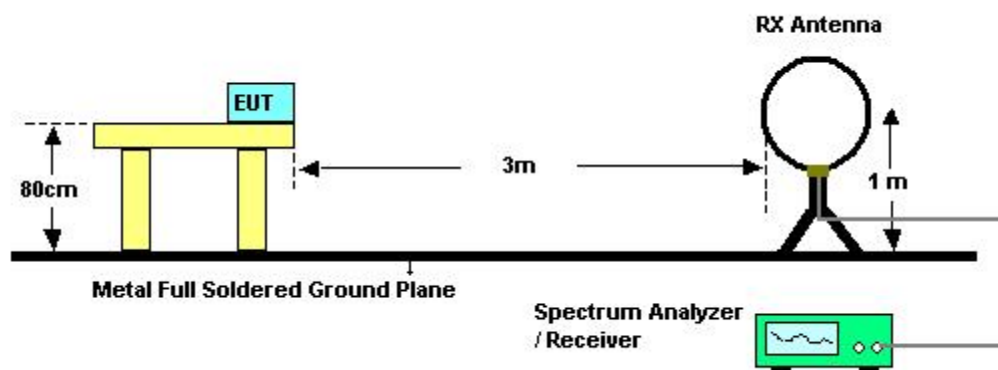
- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- c. new battery is used during all test
- d. The EUT was pre-tested on positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

5.3 DEVIATION FROM TEST STANDARD

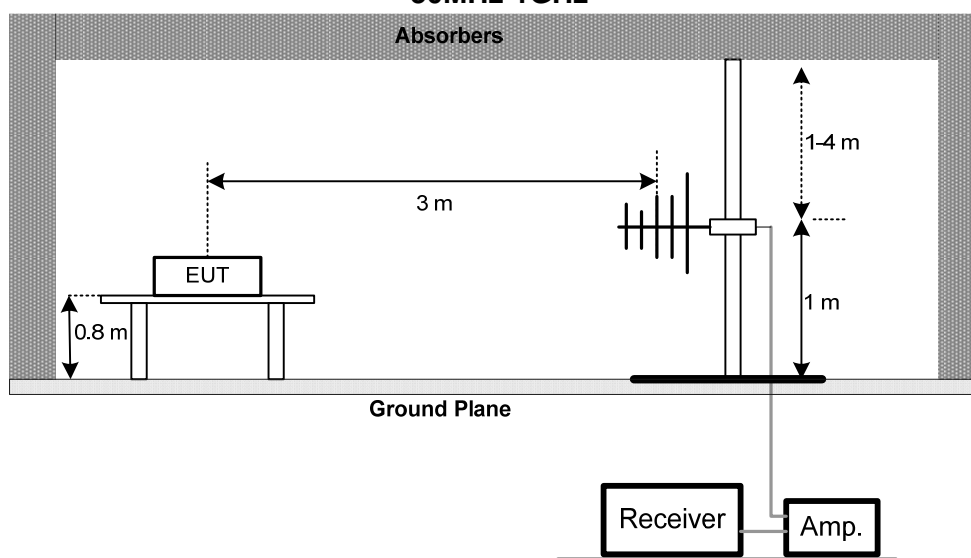
No deviation

5.4 TEST SETUP

Below 30MHz



30MHz-1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Below 30MHz:

Temperature: 22°C Relative Humidity: 61%

30MHz-1GHz:

Temperature: 25°C Relative Humidity: 54%

5.6 TEST RESULTS (BELOW 30MHz)

Please refer to the Attachment B.

5.7 TEST RESULTS (30MHz-1GHz)

Please refer to the Attachment C.

6. 20dB SPECTRUM BANDWIDTH MEASUREMENT

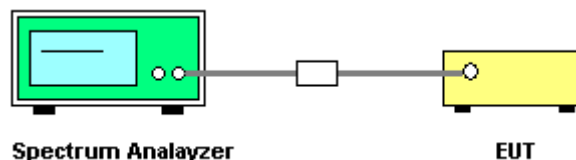
6.1. LIMIT OF 20DB BANDWIDTH MEASUREMENT

The 20dB bandwidth shall be specified in operating frequency band.

6.2. TEST PROCEDURES

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10kHz RBW and 10kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

6.3. TEST SETUP LAYOUT



6.4. TEST DEVIATION

There is no deviation with the original standard.

6.5. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

6.6. TEST RESULT

Please refer to the Attachment D.

7 MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jun. 01, 2016
2	Test Cable	TIMES	CFD300-NL	C03	Mar. 04, 2016
3	EMI Test Receiver	R&S	ESR3	101854	Dec. 09, 2015
4	Measurement Software	EZ	EZ EMC (Version NB-02A)	N/A	N/A

Radiated Emission Measurement Instruments List					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016
2	Microflex Cable	Harbour industries	27478LL142	1m	Apr. 13, 2016
3	Test Cable	LMR	LMR-400	10m	May. 13, 2016
4	Test Cable	LMR	LMR-400	3m	May. 13, 2016
5	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 16, 2016
6	Log-Bicon Antenna	Schwarzbeck	VULB9168-35 2	9168-352	Jul. 30, 2016
7	Loop Antenna	EMCO	6502	00042960	Nov. 06, 2015

20dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 07, 2016

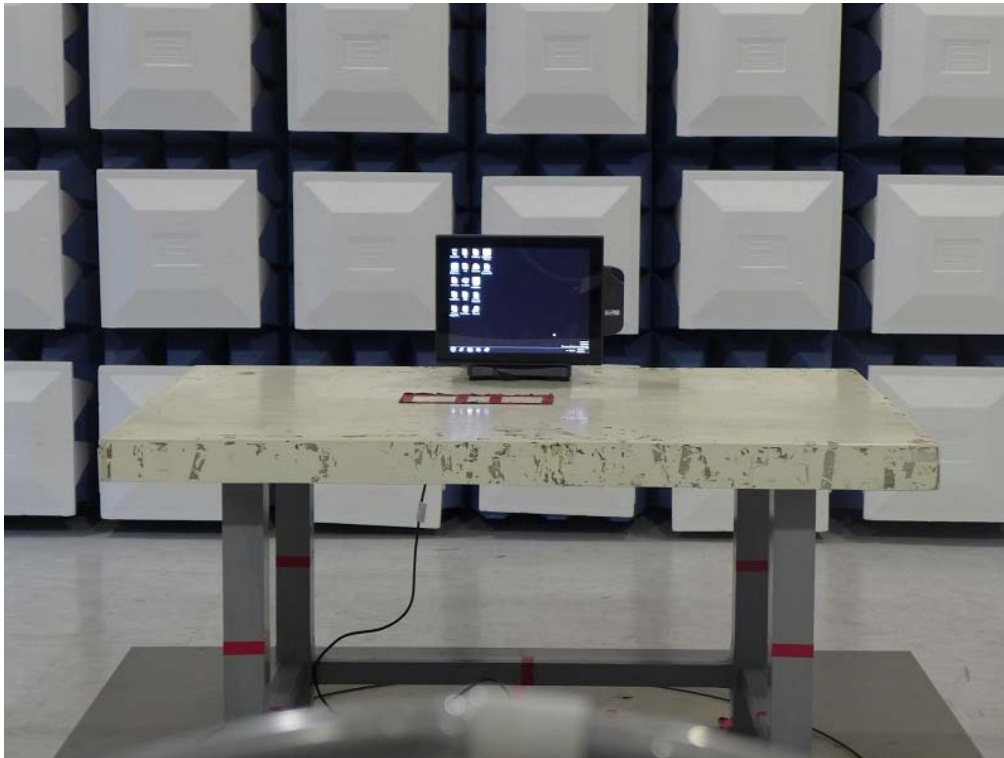
6 EUT TEST PHOTO

Conducted emission test photos



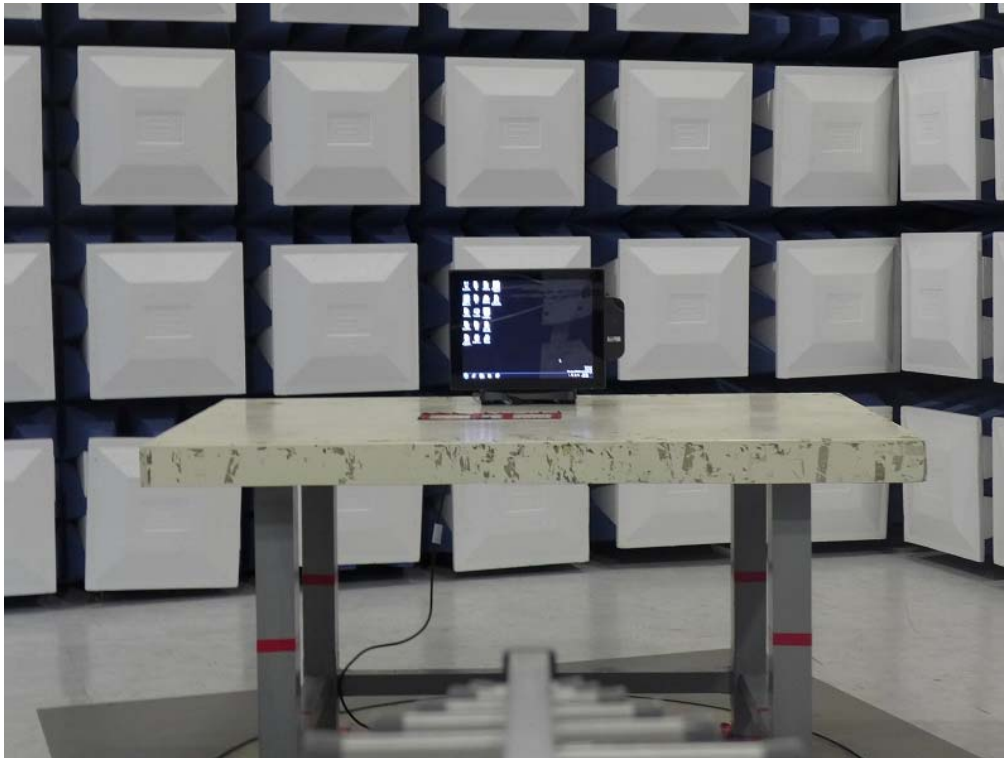
Radiated emission test photos

9KHz to 30MHz



Radiated emission test photos

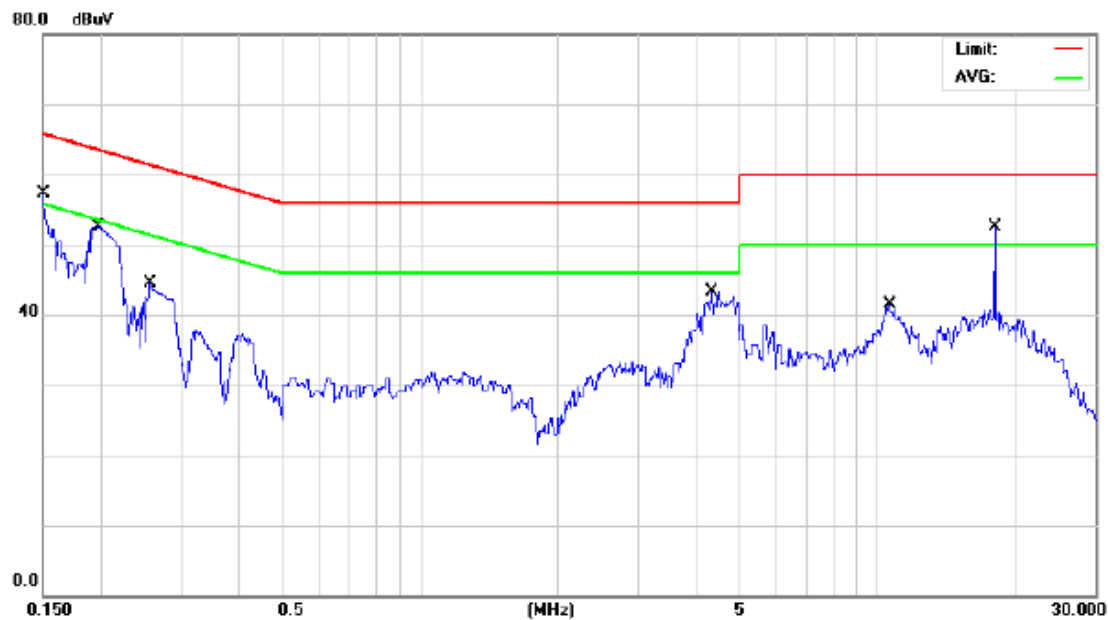
30MHz to 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : 125 KHz Transmit

Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	35.90	9.64	45.54	65.99	-20.45	QP	
2		0.1500	13.80	9.64	23.44	55.99	-32.55	AVG	
3		0.1969	40.00	9.63	49.63	63.74	-14.11	QP	
4		0.1969	22.40	9.63	32.03	53.74	-21.71	AVG	
5		0.2564	29.80	9.63	39.43	61.54	-22.11	QP	
6		0.2564	11.80	9.63	21.43	51.54	-30.11	AVG	
7		4.3340	24.20	9.83	34.03	56.00	-21.97	QP	
8		4.3340	12.20	9.83	22.03	46.00	-23.97	AVG	
9		10.6000	25.20	9.91	35.11	60.00	-24.89	QP	
10		10.6000	16.10	9.91	26.01	50.00	-23.99	AVG	
11		18.0000	41.50	9.84	51.34	60.00	-8.66	QP	
12	*	18.0000	37.80	9.84	47.64	50.00	-2.36	AVG	

Test Mode :	125 KHz Transmit
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Neutral



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1514	36.20	9.63	45.83	65.92	-20.09	QP	
2	0.1514	14.10	9.63	23.73	55.92	-32.19	AVG	
3	0.1934	39.70	9.63	49.33	63.88	-14.55	QP	
4	0.1934	22.10	9.63	31.73	53.88	-22.15	AVG	
5	0.2599	29.60	9.63	39.23	61.43	-22.20	QP	
6	0.2599	12.10	9.63	21.73	51.43	-29.70	AVG	
7	4.9550	22.70	9.85	32.55	56.00	-23.45	QP	
8	4.9550	11.20	9.85	21.05	46.00	-24.95	AVG	
9	10.7000	24.80	9.90	34.70	60.00	-25.30	QP	
10	10.7000	15.60	9.90	25.50	50.00	-24.50	AVG	
11	18.0000	41.80	9.85	51.65	60.00	-8.35	QP	
12 *	18.0000	38.00	9.85	47.85	50.00	-2.15	AVG	

ATTACHMENT B - RADIATED EMISSION (BELOW 30MHz)

Test Voltage:	AC 120V/60Hz
Test Mode:	TX Mode

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.0155	0°	32.85	22.26	55.11	103.80	-48.69	AVG
0.0155	0°	42.28	22.26	64.54	123.80	-59.26	PK
0.0274	0°	30.80	21.97	52.77	98.85	-46.08	AVG
0.0274	0°	33.41	21.97	55.38	118.85	-63.47	PK
0.0386	0°	27.00	21.69	48.69	95.87	-47.19	AVG
0.0386	0°	30.86	21.69	52.55	115.87	-63.33	PK
0.0670	0°	27.61	21.13	48.74	91.08	-42.34	AVG
0.0670	0°	35.51	21.13	56.64	111.08	-54.44	PK
1.2570	0°	33.38	20.34	53.72	65.62	-11.89	QP
1.6200	0°	35.19	19.98	55.17	63.41	-8.24	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.0159	90°	31.82	22.25	54.07	103.58	-49.50	AVG
0.0159	90°	43.18	22.25	65.43	123.58	-58.14	PK
0.0269	90°	28.42	21.98	50.40	99.01	-48.61	AVG
0.0269	90°	34.59	21.98	56.57	119.01	-62.44	PK
0.0376	90°	27.41	21.71	49.12	96.10	-46.98	AVG
0.0376	90°	32.93	21.71	54.64	116.10	-61.46	PK
0.0666	90°	27.82	21.13	48.95	91.13	-42.18	AVG
0.0666	90°	34.41	21.13	55.54	111.13	-55.59	PK
1.4410	90°	36.75	20.16	56.91	64.43	-7.52	QP
1.6200	90°	33.86	19.98	53.84	63.41	-9.57	QP

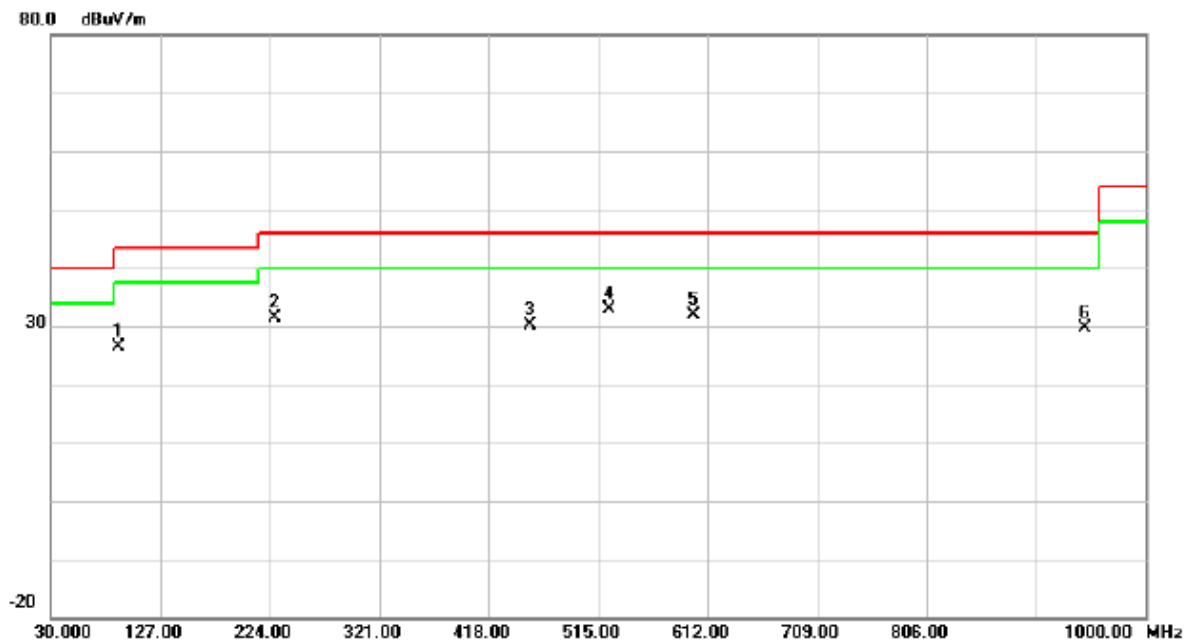
Remark

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);.
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor..

ATTACHMENT C - RADIATED EMISSION (30 MHz TO 1 GHz)

Test Voltage	AC 120V/60Hz
Test Mode	125 KHz Transmit

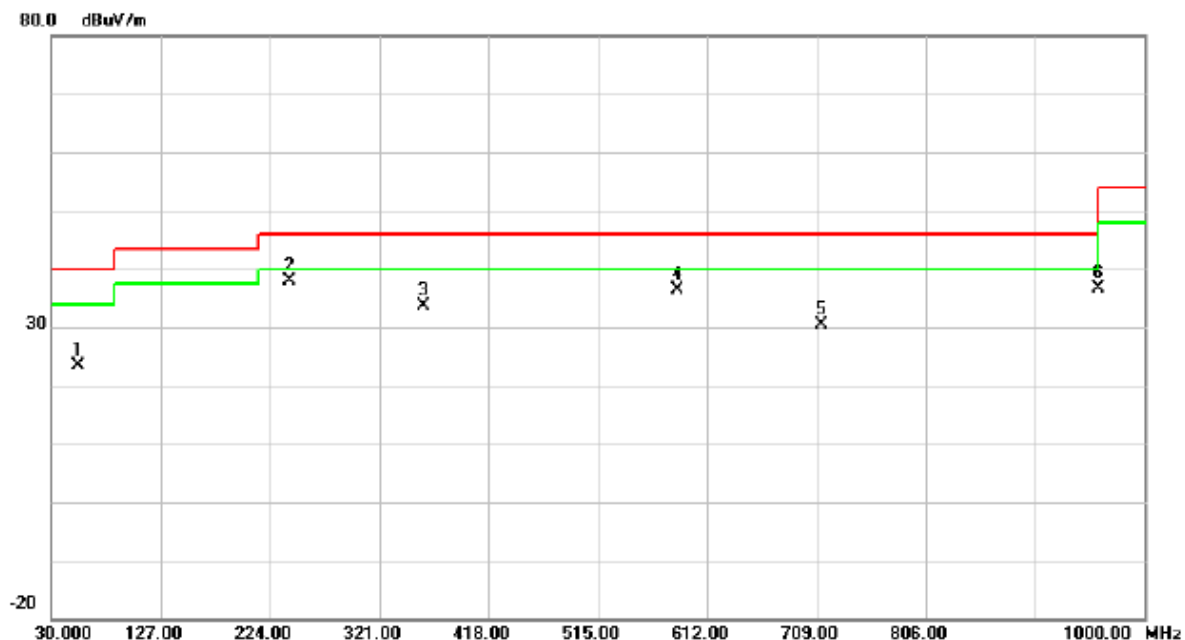
Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		90.6250	46.63	-20.24	26.39	43.50	-17.11	peak	
2		228.8500	47.55	-16.23	31.32	46.00	-14.68	peak	
3		454.3750	40.00	-9.84	30.16	46.00	-15.84	peak	
4	*	524.7000	41.60	-8.81	32.79	46.00	-13.21	peak	
5		599.8750	39.02	-7.13	31.89	46.00	-14.11	peak	
6		946.6500	31.63	-1.88	29.75	46.00	-16.25	peak	

Test Voltage	AC 120V/60Hz
Test Mode	125 KHz Transmit

Polarization: Horizontal



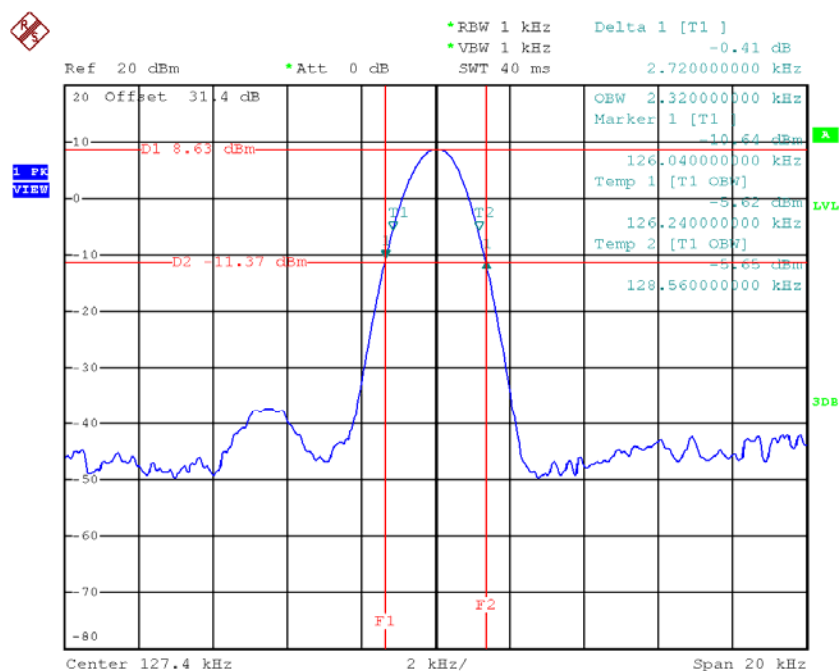
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		54.2500	37.36	-13.92	23.44	40.00	-16.56	peak	
2	*	240.9750	53.17	-15.25	37.92	46.00	-8.08	peak	
3		359.8000	45.85	-12.29	33.56	46.00	-12.44	peak	
4		585.3250	43.93	-7.46	36.47	46.00	-9.53	peak	
5		713.8500	35.73	-5.32	30.41	46.00	-15.59	peak	
6		958.7750	38.34	-1.79	36.55	46.00	-9.45	peak	

ATTACHMENT D - 20dB SPECTRUM BANDWIDTH MEASUREMENT

Test Mode : TX Mode

Frequency (kHz)	20dB Bandwidth (kHz)	99% OBW (kHz)	Test Result
125	2.72	2.32	Complies

TX CH 01



Date: 25.SEP.2015 16:43:05