

TEST REPORT



Applicant	Flashbay Electronics
Address	Blgd b & C Xi Feng Cheng No.2 FuYuan Road, FuYong Town, ShenZhen, China.

Manufacturer or Supplier	Flashbay Electronics	
Address	Blgd b & C Xi Feng Cheng No.2 FuYuan Road, FuYong Town, ShenZhen, China.	
Product	Bluetooth speaker	
Brand Name	N/A	
Model	Ace(AE)	
Additional Model & Model Difference	Unison(UN), See items 2.1	
Date of tests	Nov. 17, 2017 ~ Feb. 05, 2018	

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

AS/NZS CISPR 32:2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer/ EMC Department	Approved by Chris Chen Manager / EMC Department
	
Date: Feb. 07, 2018	

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BUREAU
VERITAS

Test Report No.: C171116N020

RELEASE CONTROL RECORD

Issue No.	Description	Date Issued
C171116N020	Original release	Feb. 07, 2018



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Emission			
Standard	Test Item	Result	Remarks
AS/NZS CISPR 32: 2015, Class B	Conducted test	PASS	Minimum passing margin is -15.90dB at 0.55518MHz
	Radiated emission 30-1000 MHz	PASS	Meets limits minimum passing margin is -4.02dB at 33.2737MHz
	Radiated emission 1GHz-18GHz	PASS	Meets limits minimum passing margin is -13.02 dB at 3976.45MHz.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Mains Terminal Disturbance Voltage Test	0.15MHz ~ 30MHz	+/- 2.70 dB
Radiated Disturbance Test	30MHz ~ 1000MHz	+/- 4.03dB
	1GHz-18GHz	+/- 4.72dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Bluetooth speaker
TEST MODEL	Ace(AE)
ADDITIONAL MODEL	Unison(UN)
POWER SUPPLY	DC 3.7V from Li-ion Battery or DC 5V from USB Host Unit
DATA CABLE SUPPLIED	USB Line: unshielded, detachable 0.25m
HIGHEST OPERATION FREQUENCY	2402 - 2480MHz for BT

NOTE:

1. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.
2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
3. Please refer to the EUT photo document (Reference No.: 171116N020) for detailed product photo.
4. Additional model Unison(UN) is identical with the test model Ace(AE) except the model name for trading purpose.



2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes' the final worst mode were marked in boldface and recorded in this report.

◆ FOR CONDUCTED EMISSION TEST

Test Mode	Test Voltage
USB Full Load (DC 5V 1V) + Charging	DC 5V from Adapter Input AC 230V 50Hz
Standby	
BT Link Normal Working + Charging	

◆ FOR RADIATED EMISSIONS TEST (BELOW 1GHz)

Test Mode	Test Voltage
USB Full Load (DC 5V 1V) + Charging	DC 5V from Adapter Input AC 230V 50Hz, or DC3.7V from Battery
Standby	
BT Link Normal Working + Charging	
BT Link Normal Working+ USB Full Load (DC 5V 1V) + Charging	
BT Link Normal Working	

◆ FOR RADIATED EMISSIONS TEST (ABOVE 1GHz)

Test Mode	Test Voltage
BT Link Normal Working + Charging	DC 5V from Adapter Input AC 230V 50Hz

2.3 TEST PROGRAM USED AND OPERATION DESCRIPTIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to the specifications of the manufacturers, the EUT must comply with the requirements of the following standards:

AS/NZS CISPR 32:2015

All applicable tests have been performed and recorded as per the above standards.

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an dependent 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Mobile Phone	Iphone 4	APPLE	A1332	N/A
2	Mobile Phone	SAMSUNG	GT-S7572	R21D85CCB7N	N/A
3	Adapter	N/A	DC5V 1A	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1, 2	USB Line: Unshielded, detachable, 0.5m.
3	N/A



3 CONDUCTED EMISSION FROM THE AC MAINS POWER PORT

3.1 LIMITS

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Notes: 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

3.2 TEST INSTRUMENT

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,17	Apr. 04,18
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 06,17	Mar. 05,18
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,17	Apr. 04,18
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 04,18	Jan. 03,19
Test software	ADT	ADT_Cond _V7.3.7	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed at Shielded Room 553.

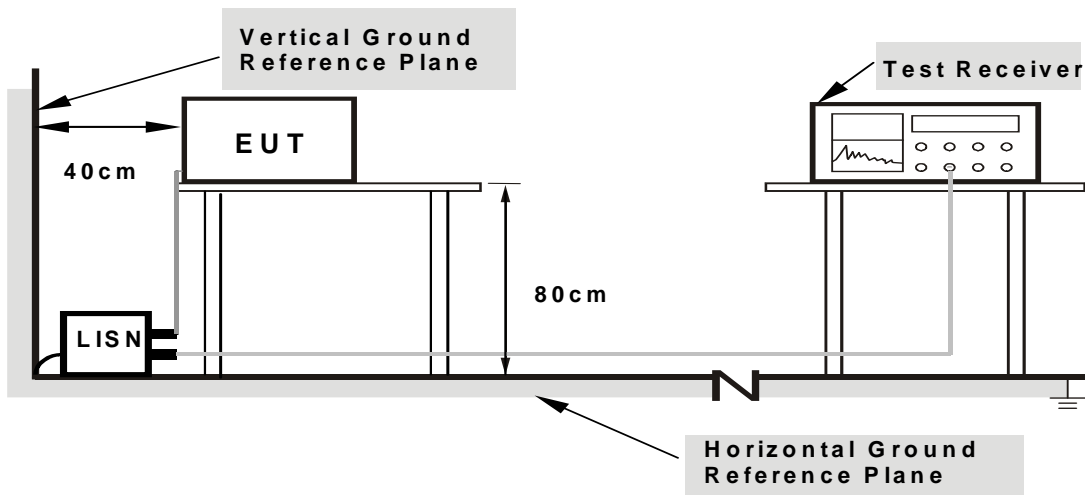
3.3 TEST ARRANGEMENT

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.



3.4 TEST SETUP



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

3.5 SUPPLEMENTARY INFORMATION

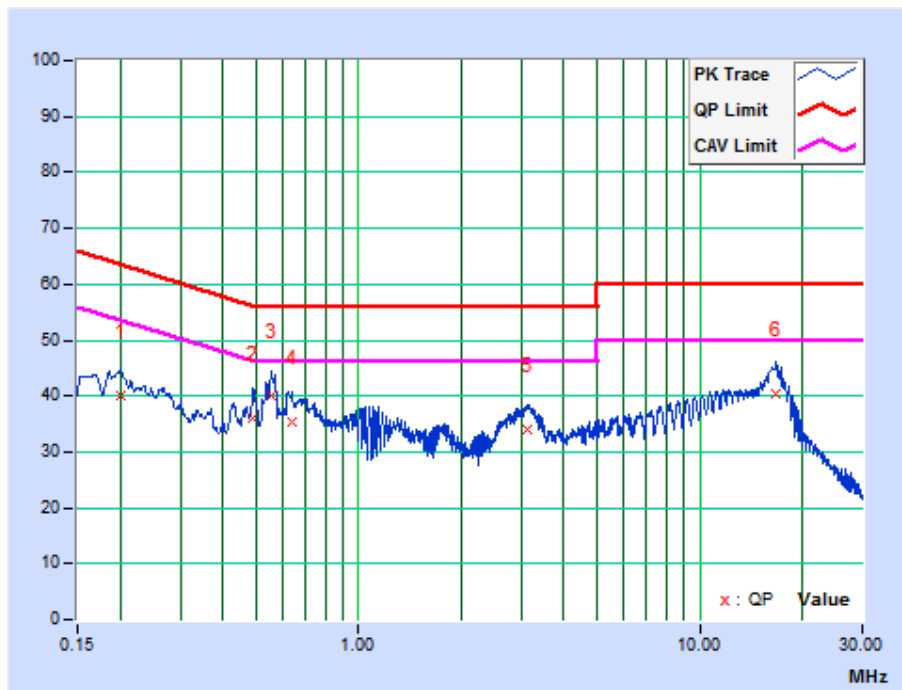
N/A

3.6 TEST RESULTS

TEST MODE	See section 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from Adapter input AC 230V 50Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 49% RH	TESTED BY	Dragon

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20142	10.22	29.83	16.32	40.05	26.54	63.55	53.55	-23.50	-27.01
2	0.49200	10.22	25.80	12.96	36.02	23.18	56.13	46.13	-20.11	-22.95
3	0.55518	10.22	29.88	18.25	40.10	28.47	56.00	46.00	-15.90	-17.53
4	0.63688	10.22	25.28	13.90	35.50	24.12	56.00	46.00	-20.50	-21.88
5	3.12225	10.22	23.76	17.86	33.98	28.08	56.00	46.00	-22.02	-17.92
6	16.7955	10.25	30.23	18.94	40.48	29.19	60.00	50.00	-19.52	-20.81

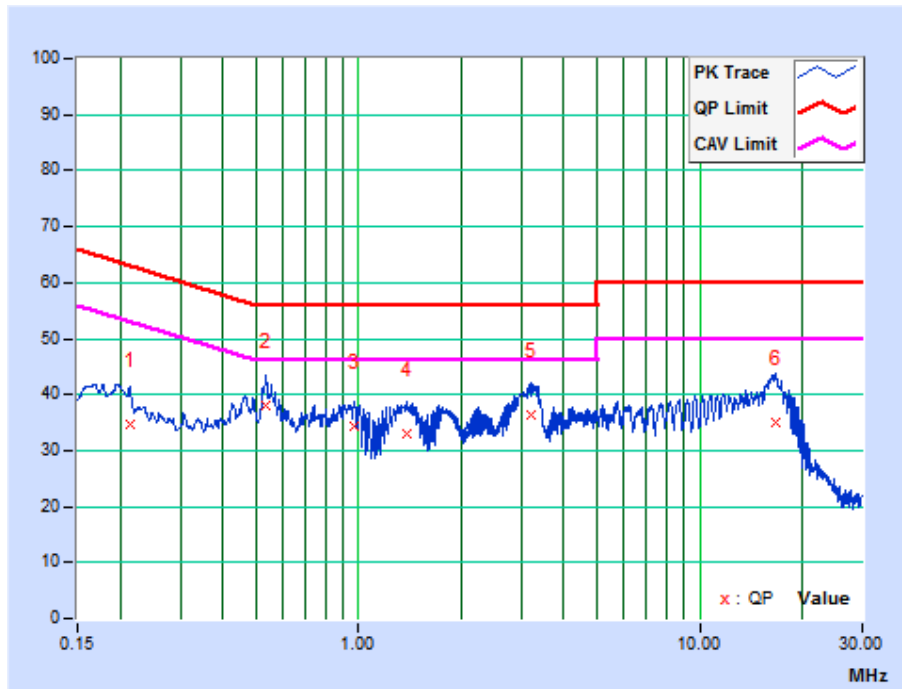
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	See section 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from Adapter input AC 230V 50Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 49% RH	TESTED BY	Dragon

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21291	10.01	24.54	12.92	34.55	22.93	63.09	53.09	-28.54	-30.16
2	0.53503	10.02	28.01	14.59	38.03	24.61	56.00	46.00	-17.97	-21.39
3	0.97125	10.02	24.47	12.96	34.49	22.98	56.00	46.00	-21.51	-23.02
4	1.39200	10.01	22.84	14.19	32.85	24.20	56.00	46.00	-23.15	-21.80
5	3.20100	10.03	26.32	16.03	36.35	26.06	56.00	46.00	-19.65	-19.94
6	16.66275	10.13	24.90	12.61	35.03	22.74	60.00	50.00	-24.97	-27.26

REMARKS: The emission levels of other frequencies were very low against the limit.





4 RADIATED EMISSION MEASUREMENT

4.1 LIMITS

4.2 OF RADIATED EMISSION MEASUREMENT

FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	Quasi-Peak dBuV/m	Quasi-Peak dBuV/m
30 – 230	40	30
230 – 1000	47	37

FREQUENCY (MHz)	Class A (at 3m)	Class B (at 3m)
	Quasi-Peak dBuV/m	Quasi-Peak dBuV/m
30 – 230	50	40
230 – 1000	57	47

For FM receivers

Distance (m)	Source	Frequency Range (MHz)	Limits dB (uV/m)	
			Quasi-peak	
10	Local oscillator	≤1000	Fundamental	50
		30 to 300	Harmonics	42
		300 to 1000	Harmonics	46
	Other	30 to 230		30
230 to 1000			37	
3	Local oscillator	≤1000	Fundamental	60
		30 to 300	Harmonics	52
		300 to 1000	Harmonics	56
	Other	30 to 230		40
230 to 1000			47	

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	Up to 5 times of the highest frequency or 6 GHz, whichever is less

FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
1 to 3	76	56	70	50
3 to 6	80	60	74	54

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
 3. All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4.3 TEST INSTRUMENTS

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Feb. 27,17	Feb. 26,18
EMI Test Receiver	Rohde&Schwarz	ESCI	101418	Feb. 27,17	Feb. 26,18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 13, 17	Nov. 12, 18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 17, 17	Dec. 16, 18
Signal Amplifier	Agilent	8447D	2944A10488	Jun. 23,17	Jun. 22,18
Signal Amplifier	Agilent	8447D	2944A11174	Jun. 23,17	Jun. 22,18
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A	N/A

- NOTES:** 1. The test was performed in 10m Chamber.
2. The calibration interval of the above test instruments is months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00085519	Dec. 10, 17	Dec. 09, 18
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 15,17	Mar. 14,18
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Apr. 05,17	Apr. 04,18
Broadband Preamplifier	SCHWARZBECK	BBV9718	266	Mar. 21,17	Mar. 20,18
Pre-Amplifier (100MHz-26.5GHz)	EMCI	EMC 012645	980077	May 19,17	May 18,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 08,17	Nov. 07,18
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A	N/A

- NOTES:** 1. The test was performed in 10m Chamber.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.4 TEST PROCEDURE

<Frequency Range below 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
5. Margin value = Emission level – Limit value.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter-to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

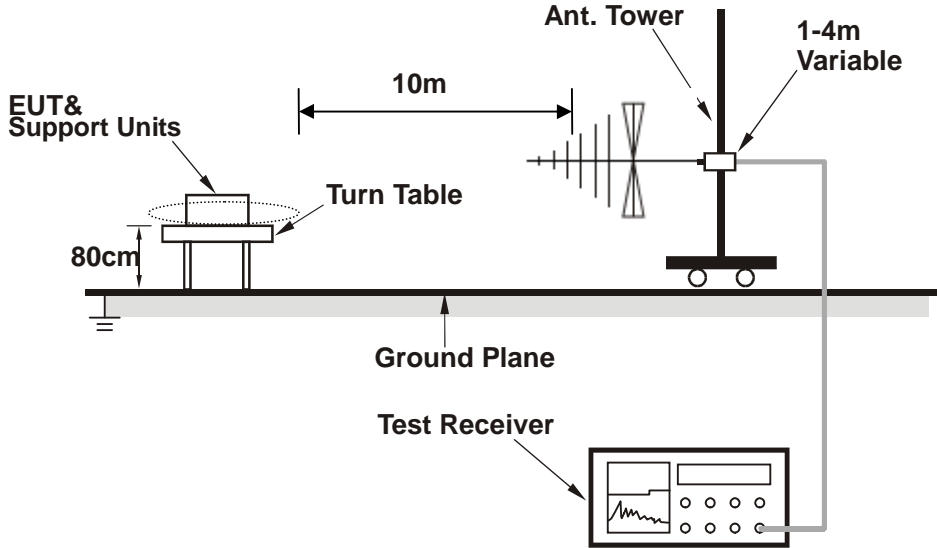
NOTE:

1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
3. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
6. Margin value = Emission level – Limit value.

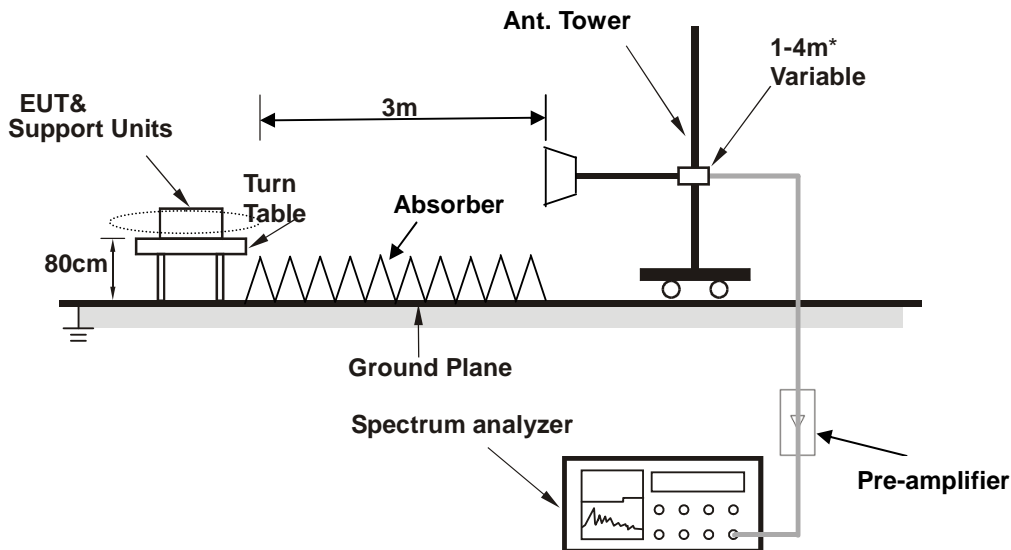


4.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3

4.6 SUPPLEMENTARY INFORMATION

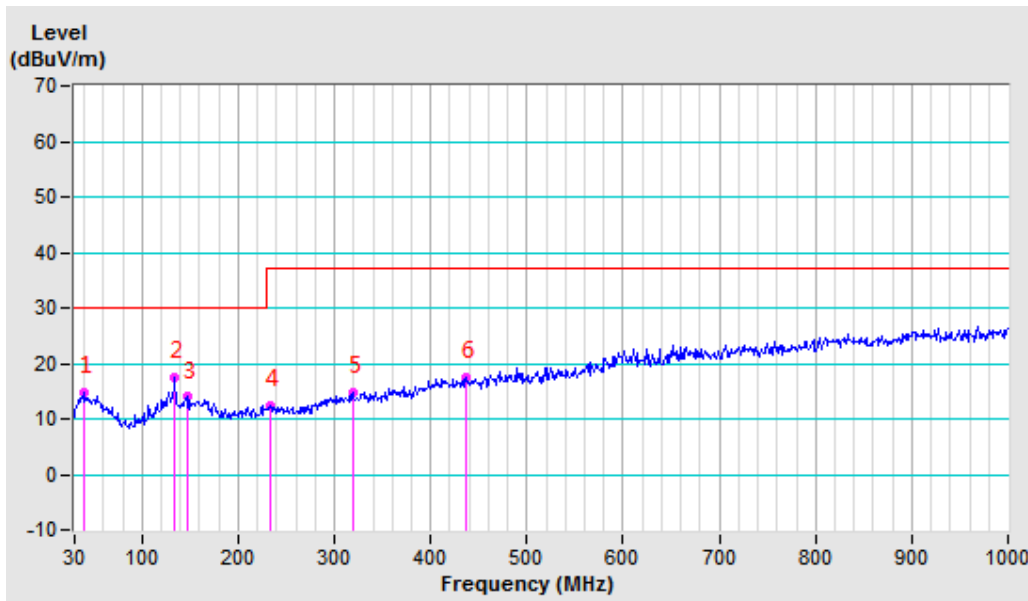
The more stringent measurement method of paragraph 8.3.2 in ANSI C63.4:2014 was applied for the test.



4.7 TEST RESULTS (BELOW 1G)

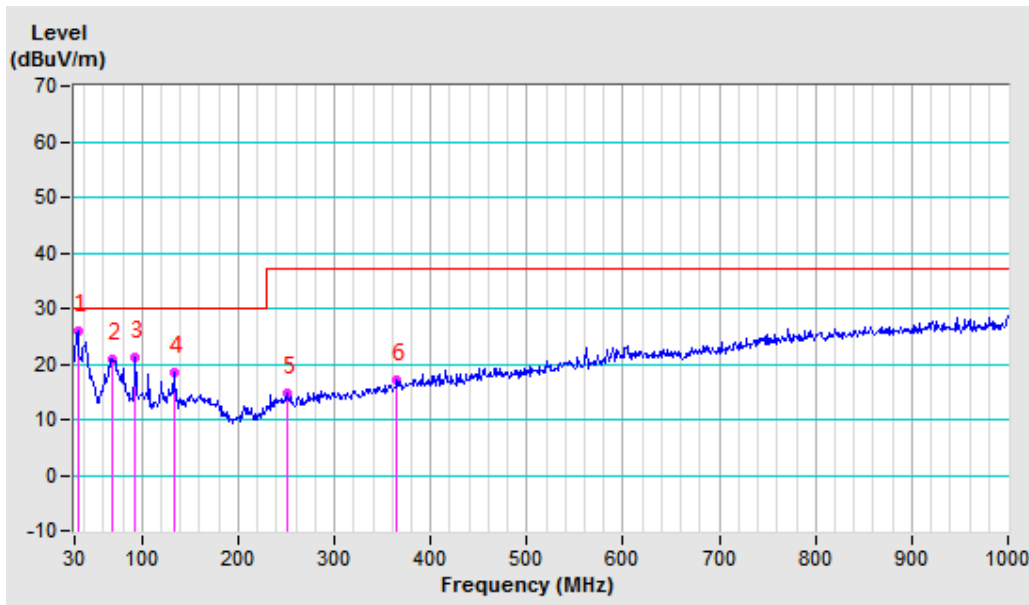
TEST MODE		See section 2.2						
FREQUENCY RANGE		30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH		Quasi-Peak, 120kHz			
ENVIRONMENTAL CONDITIONS		23.0deg. C, 66.0% RH	TESTED BY: Luke					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	39.0937	-17.43	32.14	14.71	30.00	-15.29	200	163
2	133.1838	-18.30	35.89	17.59	30.00	-12.41	400	43
3	146.4000	-17.46	31.43	13.97	30.00	-16.03	200	43
4	234.3063	-17.79	30.13	12.34	37.00	-24.66	200	292
5	319.1812	-15.14	29.91	14.77	37.00	-22.23	200	110
6	437.4000	-12.45	29.97	17.52	37.00	-19.48	400	344

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE		See section 2.2						
FREQUENCY RANGE		30-1000 MHz			DETECTOR FUNCTION & BANDWIDTH		Quasi-Peak, 120kHz	
ENVIRONMENTAL CONDITIONS		23.0deg. C, 66.0% RH			TESTED BY: Luke			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	33.2737	-18.44	44.42	25.98	30.00	-4.02	100	278
2	69.2850	-20.21	41.18	20.97	30.00	-9.03	100	69
3	93.1713	-21.10	42.26	21.16	30.00	-8.84	100	126
4	133.1838	-18.38	36.99	18.61	30.00	-11.39	300	89
5	250.675	-16.11	30.96	14.85	37.00	-22.15	100	289
6	364.1650	-12.78	29.87	17.09	37.00	-19.91	300	123

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.





4.8 TEST RESULTS (ABOVE 1GHZ)

TEST MODE		See section 2.2						
TEST VOLTAGE		See Section 2.2			FREQUENCY RANGE		1-6 GHz	
ENVIRONMENTAL CONDITIONS		23.0deg. C, 66.0% RH			TESTED BY: Luke			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	3124.32PK	3.36	57.27	60.63	74.00	-13.37	100	140
2	3124.32AV	3.36	36.85	40.21	54.00	-13.79	100	140
3	3524.159PK	5.24	55.29	60.53	74.00	-13.47	100	142
4	3524.159AV	5.24	34.93	40.17	54.00	-13.83	100	142
5	4029.341PK	5.29	55.20	60.49	74.00	-13.51	100	147
6	4029.341AV	5.29	34.99	40.28	54.00	-13.72	100	147

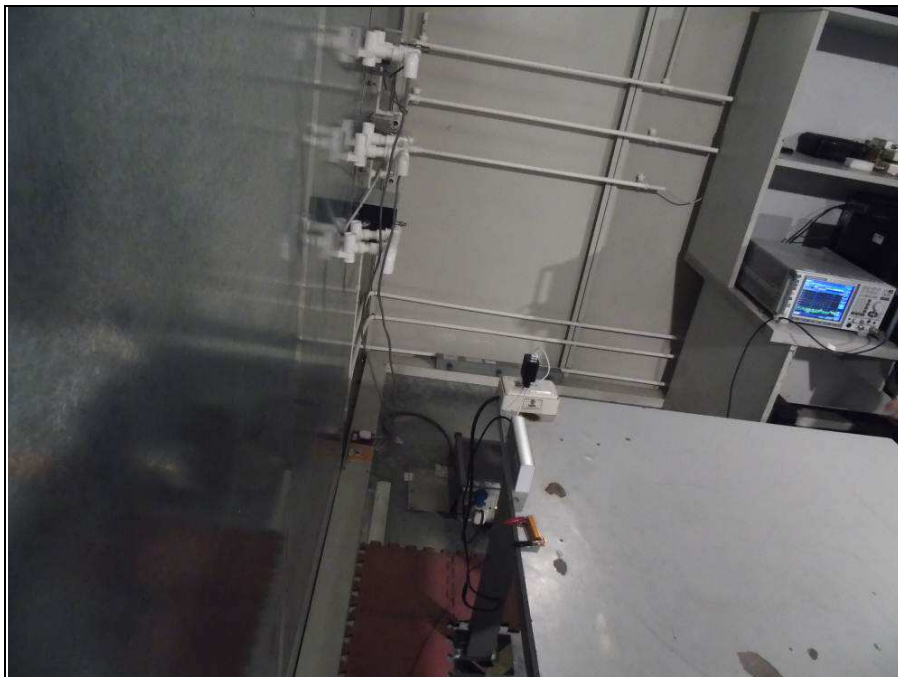
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	3425.70PK	4.87	55.12	59.99	74.00	-14.01	100	165
2	3425.70AV	4.87	35.45	40.32	54.00	-13.68	100	165
3	3976.45PK	5.21	55.14	60.35	74.00	-13.65	100	168
4	3976.45AV	5.21	35.77	40.98	54.00	-13.02	100	168
5	4627.80PK	6.76	53.67	60.43	74.00	-13.57	100	214
6	4627.80AV	6.76	33.89	40.65	54.00	-13.35	100	214

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 1GHz to 6GHz.
 4. Only emissions significantly above equipment noise floor are reported.

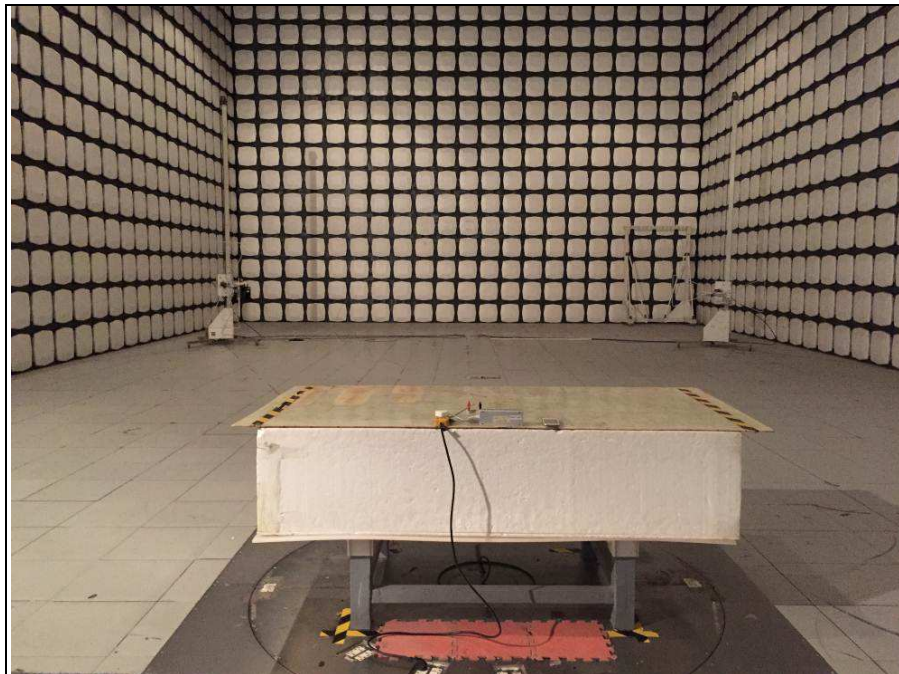
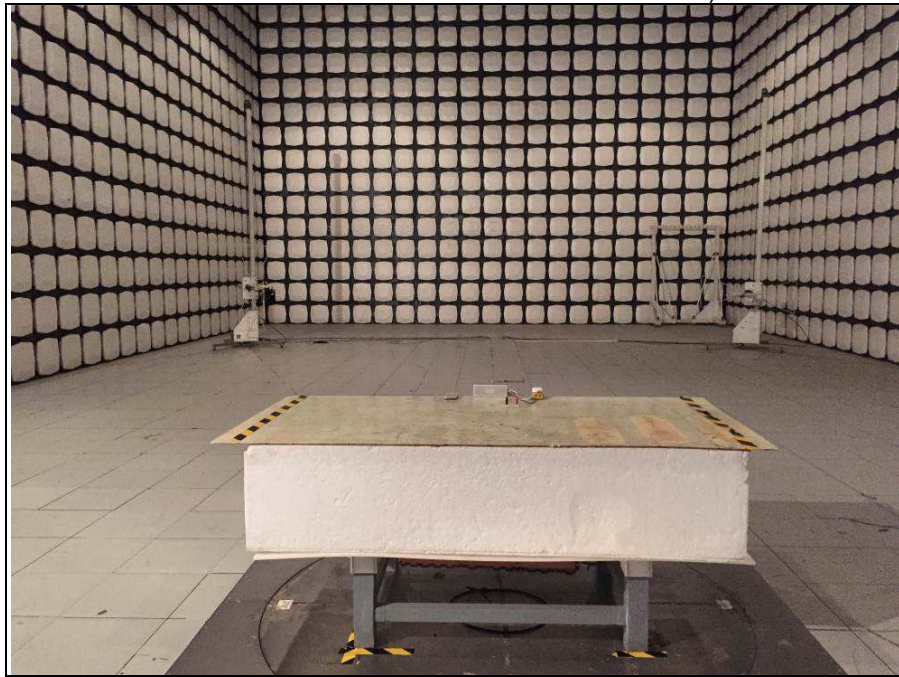


5 PHOTOGRAPHS OF THE TEST CONFIGURATION

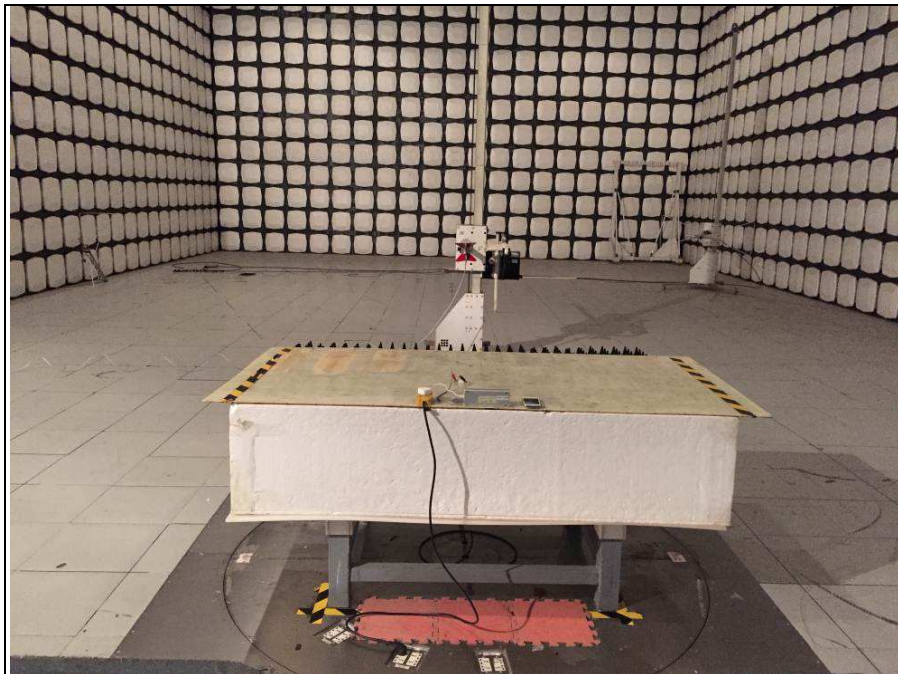
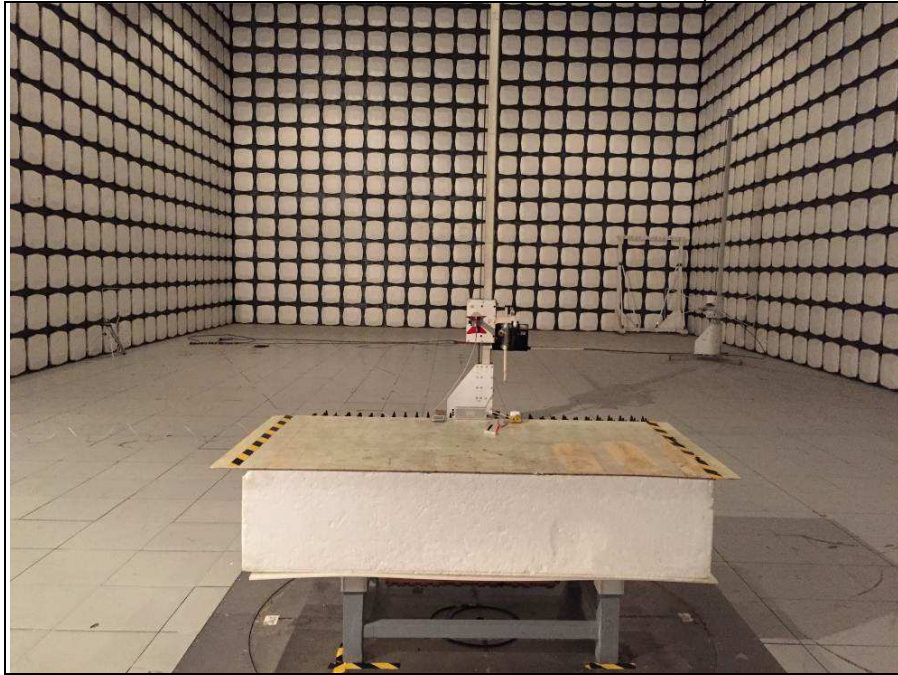
CONDUCTED EMISSION TEST



RADIATED EMISSION TEST (<30MHz-1GHz>)



RADIATED EMISSION TEST <Above 1GHz>





**BUREAU
VERITAS**

Test Report No.: C171116N020

6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

END