





EMC TEST REPORT

Applicant:	i.safe MOBILE GmbH	
Address:	i_Park Tauberfranken 10, 97922 Lauda-Koenigshofen, Germany	

Manufacturer or Supplier	i.safe MOBILE GmbH
Address	i_Park Tauberfranken 10, 97922 Lauda-Koenigshofen, Germany
Product	Head Mounted Tablet
Brand Name	i.safe MOBILE
Model Name	T1100S
FCC ID	2AACZ1100S00AA
Date of tests	Feb. 28, 2018 ~ Mar. 27, 2018

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

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

Prepared by Yuqiang Yin Engineer / Mobile Department	Approved by Sam Tung Manager / Mobile Department	
Yug, onf		
Data: Mar 28 2017	Date: Mar 28 2017	

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	
FV171211W008	Original release	Mar. 28, 2017

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1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Head Mounted Tablet		
BRAND NAME	i.safe MOBILE		
MODEL NAME	T1100S		
NOMINAL VOLTAGE	5.0Vdc (adapter or 3.8Vdc (Li-ion, batte		
BATTERY	Model Name: B1	afe MOBILE 100S 3.6V, 3480mAh, Li-ion	
	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM	
	BT_LE	DTS	
MODULATION TYPE	Bluetooth	GFSK, π/4-DQPSK, 8DPSK	
	GPS/GLONASS	C/A code	
OPERATING	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 2422 ~ 2452MHz for 11n(HT40) 5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5850MHz for 11a/ n(HT20)/ n(HT40)/ac(VHT80)	
FREQUENCY	Bluetooth/BT_LE	2402MHz ~ 2480MHz	
	GPS	1575.42MHz	
	GLONASS	1602MHz	
HW VERSION	A		
SW VERSION	HMT-1.S.0-6.0.1-03.00-T		
I/O PORTS	Refer to user's manual		
CABLE	USB cable: non-shielded, detachable, 1.0m		
ACCESSORY DEVICES	Refer to note as below		

NOTE:

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

2. The EUT matched the following USB cable:

USB CABLE		
BRAND:	i.safe MOBILE	
MODEL:	X0100100	
SIGNAL LINE:	1.0 METER	

BV 7Layers Communications Technology (Shenzhen) Co. Ltd No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen51800, China

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3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B				
Standard Section	Test Item	Result	Remark	
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test Radiated Emission Test (30MHz ~ 1GHz)	PASS PASS	Meets limits minimum passing margin is -18.83dB at 0.73600MHz. Meets Class B Limit Minimum passing margin is -4.54dB at 36.79MHz	
7.1.101.000.11.2011	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -8.86dB at 4546.91MHz	

1.3 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:

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

MEASUREMENT FREQUENCY		UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	+/-2.66dB
Dedicted envisere	30MHz ~ 1GHz	+/-3.26dB
Radiated emissions	1GHz ~ 18GHz	+/-4.48dB



1.4 DESCRIPTION OF TEST MODES

For Conducted Emission evaluation, 240Vac/60Hz & 120/60Hz had been covered during the pre-test. The worst data was found at **120Vac/60Hz** and recorded in the applied test report.

Test Mode	Test Condition				
	Radiated emission test				
1	WIFI Idle(2.4G)+ Adapter+ USB cable +Earphone + BT Idle +GPS Rx+ Camera on				
2	WIFI Idle(5G)+ Adapter+ USB cable +Earphone + BT Idle + Glonass Rx + Coulor Bar				
3	WIFI Idle(2.4G) + USB Link+ Earphone + BT Idle				
	Conducted emission test				
1	WIFI Idle(2.4G)+ Adapter+ USB cable +Earphone + BT Idle +GPS Rx+ Camera on				
2	WIFI Idle(5G)+ Adapter+ USB cable +Earphone + BT Idle + Glonass Rx + Coulor Bar				
3	WIFI Idle(2.4G) + USB Link+ Earphone + BT Idle				

NOTE:

- 1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.



1.5 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.

FOR EMISSION TESTS

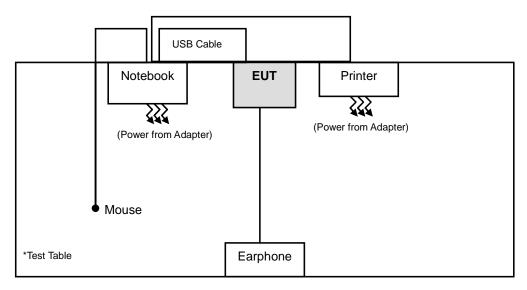
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Wireless AP	ABOCOM	WR224GR	060500749P	N/A
2	Notebook	DELL	E6420	9H12FS1	N/A
3	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A
4	Mouse	DELL	M056UOA	01688082	N/A
5	Earphone	N/A	N/A	N/A	N/A
6	Adapter	N/A	N/A	N/A	N/A

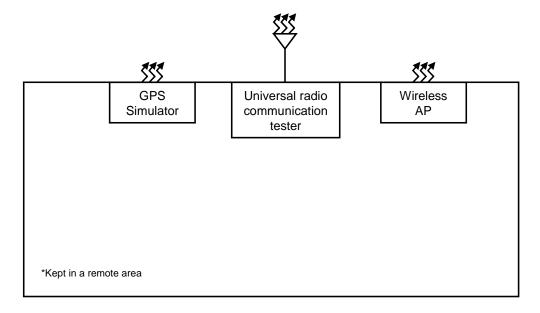
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS	
1	N/A	
2	DC Line: Unshielded, Undetachable, 2.0m	
3	USB Line: Shielded, Detachable 1.5m;	
4	USB Line: Unshielded, Undetachable 1.8m;	
5	Earphone Line: Unshielded, Non-detachable 1.5m	
6	I/P: 100 - 240 Vac, 300 mA, O/P: 5 Vdc, 2000 mA	



CONFIGURATION OF SYSTEM UNDER TEST 1.6

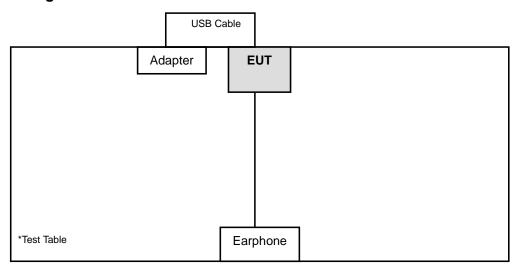
Test configuration 1

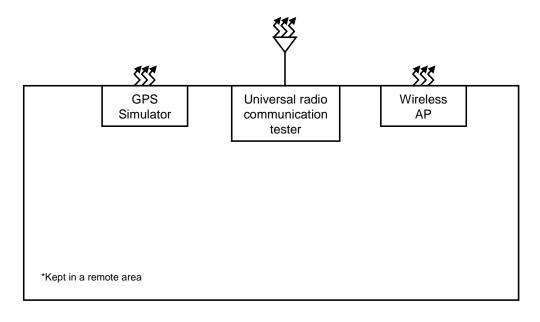






Test configuration 2







2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)		
	Quasi-peak	Average	
0.15 ~ 0.5 0.5 ~ 5	66 to 56 56	56 to 46 46	
5 ~ 30	60	50	

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations 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.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Jun. 28,17	Jun. 27,18
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Sep. 18,17	Sep. 17,18

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 in CE shielded room.



2.1.3 TEST PROCEDURES

- 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 frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

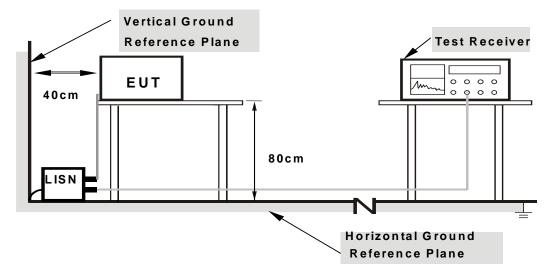
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



2.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



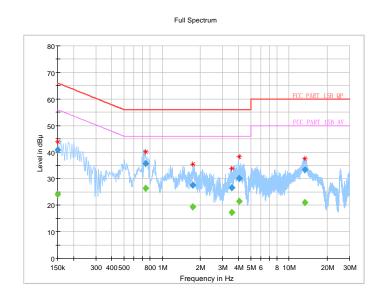
2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Alex Chen

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000		24.09	56.00	-31.91	L	ON	9.6
0.150000	40.77		66.00	-25.23	L	ON	9.6
0.740000		26.33	46.00	-19.67	L	ON	9.7
0.740000	35.71		56.00	-20.29	L	ON	9.7
1.748000		19.32	46.00	-26.68	L	ON	9.7
1.748000	27.59		56.00	-28.41	L	ON	9.7
3.556000		17.37	46.00	-28.63	L	ON	9.7
3.556000	26.65		56.00	-29.35	L	ON	9.7
4.060000		21.41	46.00	-24.59	L	ON	9.7
4.060000	30.10		56.00	-25.90	L	ON	9.7
13.316000		20.89	50.00	-29.11	L	ON	9.9
13.316000	33.46		60.00	-26.54	L	ON	9.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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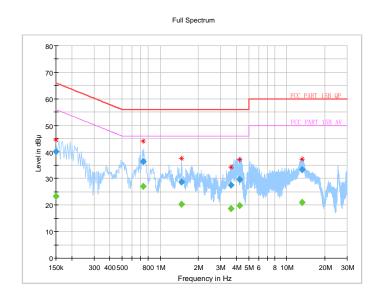


TEST VOLTAGE	Input 120 Vac, 60 Hz		Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Alex Chen

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000		23.41	56.00	-32.59	N	ON	9.8
0.150000	40.20		66.00	-25.80	N	ON	9.8
0.736000		27.17	46.00	-18.83	N	ON	10.0
0.736000	36.50		56.00	-19.50	N	ON	10.0
1.464000		20.38	46.00	-25.62	N	ON	9.9
1.464000	28.78		56.00	-27.22	N	ON	9.9
3.632000		18.58	46.00	-27.42	N	ON	9.8
3.632000	27.50		56.00	-28.50	N	ON	9.8
4.232000		19.82	46.00	-26.18	N	ON	9.8
4.232000	29.53		56.00	-26.47	N	ON	9.8
13.242000		20.89	50.00	-29.11	N	ON	9.9
13.242000	33.40		60.00	-26.60	N	ON	9.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dBµV/m)						
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	CISPR 22, Class A	CISPR 22, Class B			
30-88	39	29.5				
88-216	43.5	33.1	40	30		
216-230	46.4	35.6				
230-960	40.4	33.6	47	37		
960-1000	49.5	43.5	4/	37		
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined		
3000+	Peak: 69.5	Peak: 63.5	Not defined	Not defined		

Radiated Emissions Limits at 3 meters (dBµV/m)						
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B		
30-88	49.5	40				
88-216	54	43.5	43.5 50.5			
216-230	56.9	46				
230-960	56.9	40	57.5	17 F		
960-1000	60	54	57.5	47.5		
1000-3000			Avg: 56	Avg: 50		
	Avg: 60	Avg: 54	Peak: 76	Peak: 70		
3000+	Peak: 80	Peak: 74	Avg: 60	Avg: 54		
			Peak: 80	Peak: 74		



Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. QP detector shall be applied if not specified.

ict, Shenzhen51800, China Email: customerservice.sz@cn.bureauveritas.com



2.2.2 TEST INSTRUMENTS

Frequency range below1GHz

1 / 0						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
3m Semi-anechoic	ETS-LINDGREN	0m*6m*6m	Euroshieldpn-	May 06 17	Mov 05 10	
Chamber	E 13-LINDGREN	9111 6111 6111	CT0001143-1216	May 06,17	May 05,18	
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Nov. 26,16	Nov. 25,18	
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	May 01,18	Feb. 28,19	
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 24,17	Jul. 23,18	

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN		Euroshieldpn- CT0001143-1216	May 06,17	May 05,18
Horn Antenna	ETS-LINDGREN	3117	00168728	Nov. 26,16	Nov. 25,18
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	May 01,18	Feb. 28,19
Signal Pre-Amplifier	IEMSI	EMC 012645B	980257	Jul. 24,17	Jul. 23,18

NOTE: 1. The test was performed in 3m chamber.

^{2.} The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

^{3.} The FCC Site Registration No. is 525120.



2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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 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 3 meter fully-anechoic 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 is varied from one meter to four 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. The bore sight should be used during the test above 1GHz.
- 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.
- The test-receiver system 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 of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. 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 and video bandwidth of test receiver/spectrum analyzer is 10Hz for Average detection (AV) at frequency above 1GHz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 7. Margin value = Emission level Limit value.

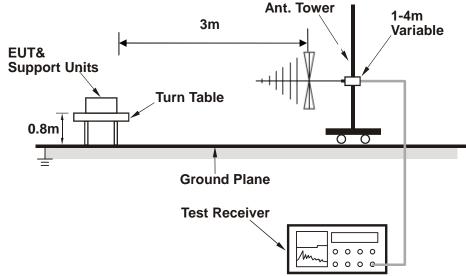
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

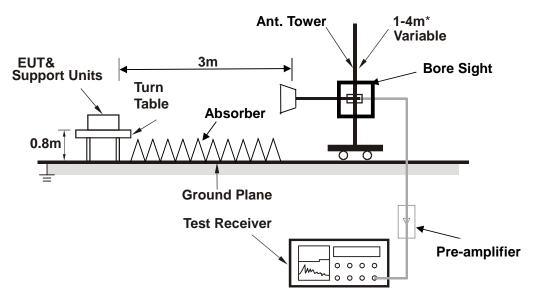


TEST SETUP 2.2.5

<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.

2.2.6 **EUT OPERATING CONDITIONS**

Same as item 2.1.6.

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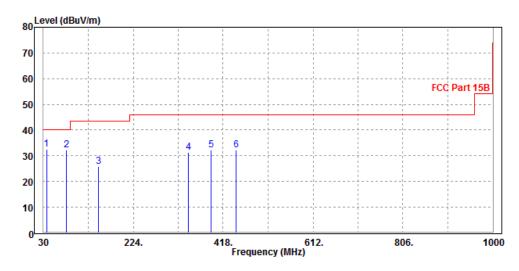


2.2.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Simon Yang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
36.79	32.54	56.74	40	-7.46	12.41	0.9	37.51	200	125	QP	
80.44	32.26	61.42	40	-7.74	6.61	1.38	37.15	200	321	QP	
149.31	25.97	51.76	43.5	-17.53	9.12	1.88	36.79	200	251	QP	
342.34	31.23	50.14	46	-14.77	14.78	2.9	36.59	200	325	QP	
391.81	32.29	49.02	46	-13.71	16.86	3.11	36.7	200	37	QP	
446.13	32.35	48.14	46	-13.65	17.75	3.29	36.83	200	354	QP	

- 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.



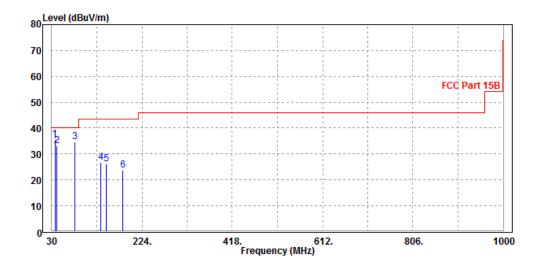
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TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz		
ENVIRONMENTAL CONDITIONS	24deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz		
TESTED BY	Simon Yang				

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
36.79	35.46	59.66	40	-4.54	12.41	0.9	37.51	100	360	QP	
41.64	33.13	60.05	40	-6.87	9.59	0.96	37.47	100	125	QP	
79.47	34.61	63.78	40	-5.39	6.62	1.37	37.16	100	321	QP	
134.76	26.89	54.19	43.5	-16.61	7.79	1.78	36.87	100	256	QP	
147.37	26.31	52.37	43.5	-17.19	8.88	1.86	36.8	100	268	QP	
183.26	23.62	48.28	43.5	-19.88	9.93	2.08	36.67	100	359	QP	

- 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.



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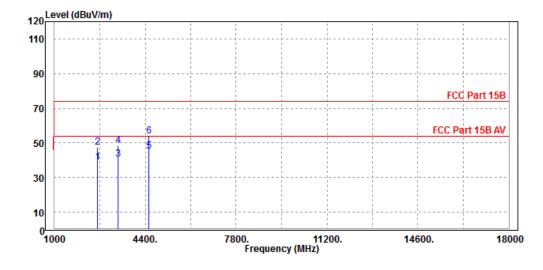


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS	20deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz	
TESTED BY	Simon Yang			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
2608.52	38.84	43.58	54	-15.16	33.09	8.54	46.37	100	327	Average	
2608.52	47.25	51.99	74	-26.75	33.09	8.54	46.37	100	327	Peak	
3383.88	40.52	43.41	54	-13.48	33.71	9.78	46.38	100	46	Average	
3383.88	48.49	51.38	74	-25.51	33.71	9.78	46.38	100	46	Peak	
4546.91	45.14	44.09	54	-8.86	35.84	11.6	46.39	100	148	Average	
4546.91	53.92	52.87	74	-20.08	35.84	11.6	46.39	100	148	Peak	

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 18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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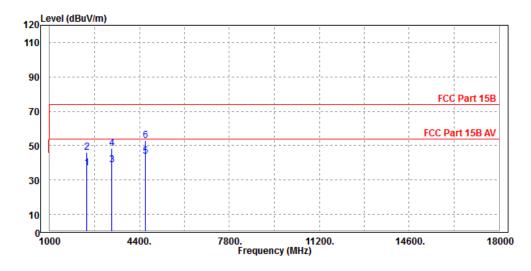


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS	20deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz	
TESTED BY	Simon Yang			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
2394	36.77	42.11	54	-17.23	32.87	8.16	46.37	200	254	Average	
2394	46.31	51.65	74	-27.69	32.87	8.16	46.37	200	254	Peak	
3346	38.75	41.73	54	-15.25	33.68	9.72	46.38	200	147	Average	
3346	48.53	51.51	74	-25.47	33.68	9.72	46.38	200	147	Peak	
4621	43.83	42.28	54	-10.17	36.06	11.88	46.39	200	208	Average	
4621	52.9	51.35	74	-21.1	36.06	11.88	46.39	200	208	Peak	

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 18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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3 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.

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