

EMC Test Report

Applicant : **Anker Innovations Limited**

Address : **Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong**

Product Name : **AnkerMake M5C**

Report Date : **May 12, 2023**

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : AnkerMake M5C
Model No. : V8110
Trade Mark : AnkerMake
Rating(s) : Input: 100-120V~, 50/60Hz, 4.5A or 200-240V~, 50/60Hz, 2.2A
USB Output: 5VDC, 1A
Test Standard(s) : **AS/NZS CISPR 32: 2015 AMD1: 2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the AS/NZS CISPR 32 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:

Mar. 24, 2023

Date of Test:

Mar. 24 ~ Apr. 21, 2023

Prepared By:



(Ella Liang)

Approved & Authorized Signer:



(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	May 12, 2023



1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.2. Description of Device (EUT)

Product Name	:	AnkerMake M5C
Model No.	:	V8110
Trade Mark	:	AnkerMake
Test Power Supply	:	AC 240V, 50Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
WiFi		
Operation Band	:	<input checked="" type="checkbox"/> 2.4GHz band <input type="checkbox"/> 5GHz band
Operation Mode	:	<input type="checkbox"/> a <input checked="" type="checkbox"/> b <input checked="" type="checkbox"/> g <input checked="" type="checkbox"/> n(HT20)
		<input type="checkbox"/> n(HT40) <input type="checkbox"/> ac(VHT20) <input type="checkbox"/> ac(VHT40) <input type="checkbox"/> ac(VHT80)
		<input type="checkbox"/> ac(VHT160) <input type="checkbox"/> ax(HEW20) <input type="checkbox"/> ax(HEW40) <input type="checkbox"/> ax(HEW80)
		<input type="checkbox"/> ax(HEW160)
Modulation Type	:	<input type="checkbox"/> 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) <input checked="" type="checkbox"/> 802.11b: DSSS (CCK, DQPSK, DBPSK) <input checked="" type="checkbox"/> 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input checked="" type="checkbox"/> 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input type="checkbox"/> 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) <input type="checkbox"/> 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Bluetooth		
Operation Mode	:	<input type="checkbox"/> BT BDR <input type="checkbox"/> BT EDR <input checked="" type="checkbox"/> BLE 1M <input type="checkbox"/> BLE 2M
Modulation Type	:	<input checked="" type="checkbox"/> GFSK <input type="checkbox"/> $\pi/4$ -DQPSK <input type="checkbox"/> 8-DPSK
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
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1.4. Description of Test Mode

Pretest Mode	Description
Mode 1	Working+WIFI+BT Mode
Mode 2	Working+WIFI+BT+Type-C Mode

For Mode 1 Block Diagram of Test Setup



For Mode 2 Block Diagram of Test Setup



1.5. 2Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test	All Mode	P
Asymmetric Mode Conducted Emission at Telecom Port	/	N
Radiated Emission Test (Below 1 GHz)	All Mode	P
Radiated Emission Test (Above 1GHz)	All Mode	P
P) Indicates "PASS". F) Indicates "Fail". N) Indicates "Not applicable".		



1.6. Test Equipment List Power Line Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	Jul. 05, 2022	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

 Asymmetric Mode Conducted Emission at Telecom Port

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ISN	Schwarzbeck	NTFM 8158	#172	Oct. 13, 2022	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A
5.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	Jul. 05, 2022	1 Year

 Radiated Emission Test (Below 1 GHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
2.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
3.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A



Radiated Emission Test (Above 1GHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
2.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A
3.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
4.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year

1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128



2. Power Line Conducted Emission Test

2.1. Test Standard and Limit

Test Standard:	AS/NZS CISPR 32
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Limits for conducted emission at the AC mains power ports of Class A equipment

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0
0.50 ~ 30.00	73.0	60.0

Remark: The lower limit shall apply at the transition frequencies.

Limits for conducted emission at the AC mains power ports of Class B equipment

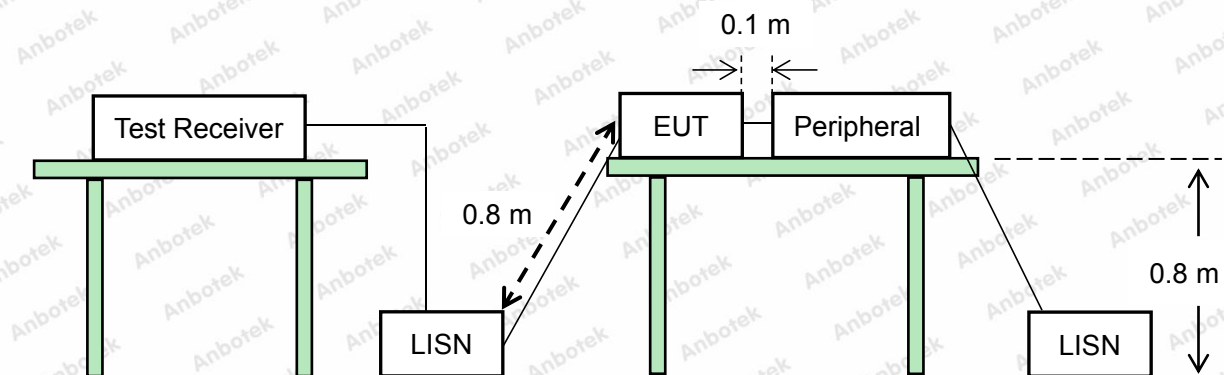
Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Remark:

(1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

2.2. Test Setup



2.3. Test Procedure

The table-top EUT is placed on a non-conductive table 0.8 m above the horizontal ground reference plane, and the back of the EUT is 0.4 m away from the vertical ground reference plane, and at least 0.8 m from any other metal surface or ground plane. The floor-standing EUT is placed on an insulating support 0.1 m above the horizontal ground reference plate, at least 0.8 m away from other metal objects.

Connect EUT to the power mains through an LISN. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the center into a bundle no longer than 0.4 m, so that its length is shortened to 1 m. All the peripherals are connecting to the other LISN.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest disturbance with respect to the limit was found by investigating disturbances at a number of significant frequencies. The probable frequency of maximum disturbance had been found and that the associated cable and EUT configuration and mode of operation had been identified.

Set the test-receiver to quasi peak detect function and average detect function, and to measure the conducted emissions values.

2.4. Test Results

PASS

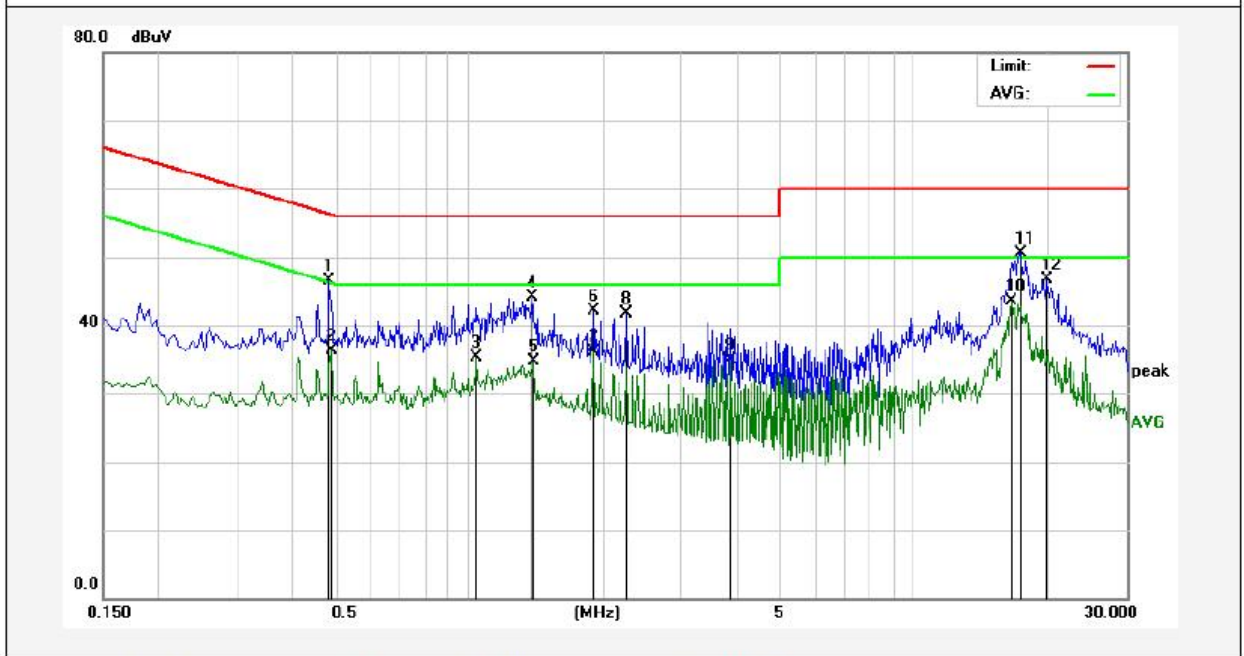
During the test, pre-scan all modes, only the worst case is recorded in the report.

The test curves are shown in the following pages.



Power Line Conducted Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 2
 Test Specification: AC 240V, 50Hz
 Comment: Live Line
 Temp.: 22.7°C Hum.: 56%



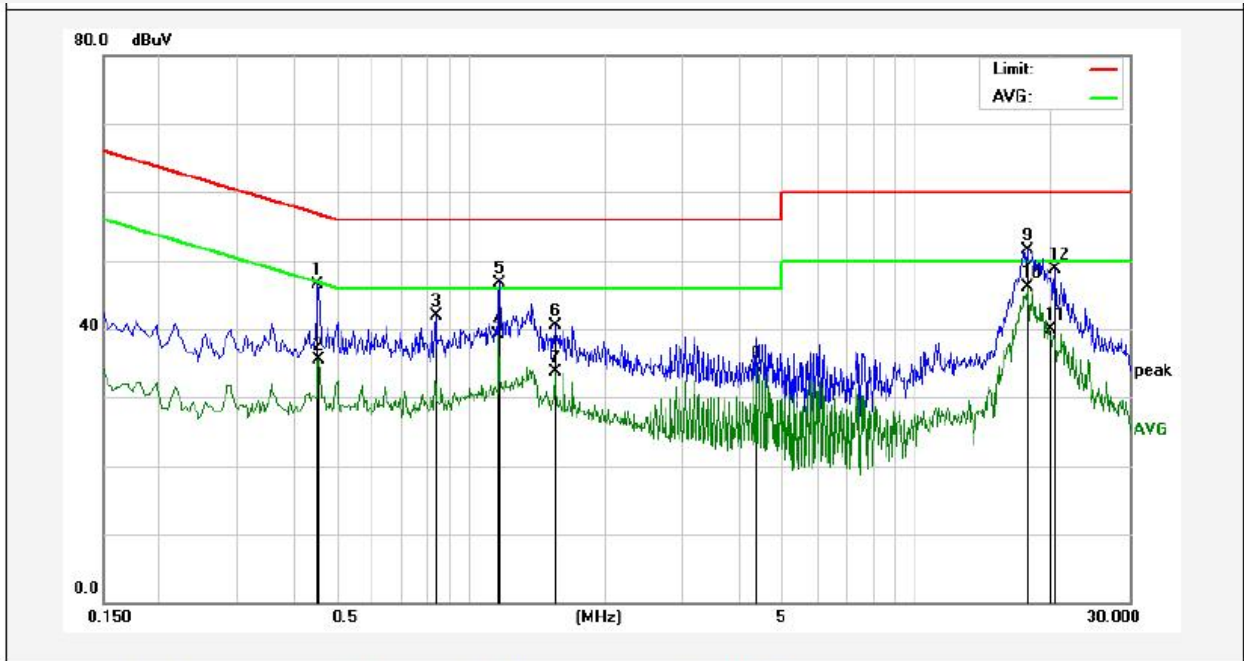
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4860	26.70	19.84	46.54	56.24	-9.70	QP	
2	0.4900	16.43	19.85	36.28	46.17	-9.89	AVG	
3	1.0380	15.49	19.85	35.34	46.00	-10.66	AVG	
4	1.3860	24.28	19.84	44.12	56.00	-11.88	QP	
5	1.3940	14.88	19.84	34.72	46.00	-11.28	AVG	
6	1.9020	22.22	19.83	42.05	56.00	-13.95	QP	
7	1.9020	16.25	19.83	36.08	46.00	-9.92	AVG	
8	2.2540	21.84	19.83	41.67	56.00	-14.33	QP	
9	3.8740	15.02	19.85	34.87	46.00	-11.13	AVG	
10	16.4860	23.36	20.22	43.58	50.00	-6.42	AVG	
11	17.2580	30.25	20.23	50.48	60.00	-9.52	QP	
12	19.9060	26.50	20.30	46.80	60.00	-13.20	QP	

Note: Result = Reading + Factor Over Limit = Result - Limit



Power Line Conducted Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 2
 Test Specification: AC 240V, 50Hz
 Comment: Neutral Line
 Temp.: 22.7°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4540	26.69	19.83	46.52	56.80	-10.28	QP	
2	0.4580	15.69	19.83	35.52	46.73	-11.21	AVG	
3	0.8380	22.11	19.86	41.97	56.00	-14.03	QP	
4	1.1580	19.31	19.85	39.16	46.00	-6.84	AVG	
5	1.1620	26.94	19.85	46.79	56.00	-9.21	QP	
6	1.5500	20.59	19.84	40.43	56.00	-15.57	QP	
7	1.5500	13.93	19.84	33.77	46.00	-12.23	AVG	
8	4.3659	14.47	19.84	34.31	46.00	-11.69	AVG	
9	17.6900	31.21	20.25	51.46	60.00	-8.54	QP	
10	17.7580	25.78	20.25	46.03	50.00	-3.97	AVG	
11	19.8980	19.54	20.30	39.84	50.00	-10.16	AVG	
12	20.4300	28.26	20.37	48.63	60.00	-11.37	QP	

Note: Result = Reading + Factor Over Limit = Result - Limit



3. Asymmetric Mode Conducted Emission at Telecom Port

3.1. Test Standard and Limit

Test Standard	AS/NZS CISPR 32
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Limits for asymmetric mode conducted emissions of Class A equipment

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	97.0 ~ 87.0 *	87.0 ~ 74.0 *
0.50 ~ 30.00	87.0	74.0

Remark:

The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

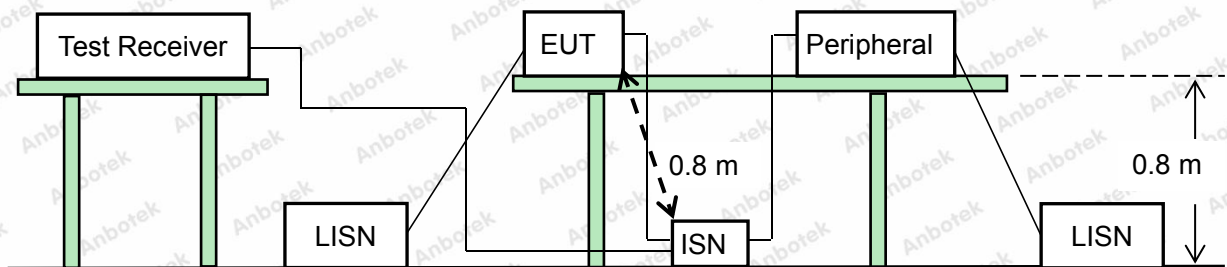
Limits for asymmetric mode conducted emissions of Class B equipment

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	84.0 ~ 74.0 *	74.0 ~ 44.0 *
0.50 ~ 30.00	74.0	64.0

Remark:

The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.2. Test Setup



3.3. Test Procedure

The table-top EUT is placed on a non-conductive table 0.8 m above the horizontal ground reference plane, and the back of the EUT is 0.4 m away from the vertical ground reference plane, and at least 0.8 m from any other metal surface or ground plane. The floor-standing EUT is placed on an insulating support 0.1 m above the horizontal ground reference plane, at least 0.8 m away from other metal objects.

Connect EUT to the power mains through an LISN. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the center into a bundle no longer than 0.4 m, so that its length is shortened to 1 m. All the peripherals are connecting to the other LISN.

The EUT was connected to the peripheral equipment through the ISN and linked in normal condition.

Set the test-receiver to quasi peak detect function and average detect function, and to measure the asymmetric mode conducted emission values.

3.4. Test Results

Not applicable.



4. Radiated Emission Test (Below 1 GHz)

4.1. Test Standard and Limit

Test Standard	AS/NZS CISPR 32
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Limit for radiated emissions at frequencies up to 1 GHz for class A equipment

Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dB μ V/m)
30 ~ 230	3	50
230 ~ 1000	3	57

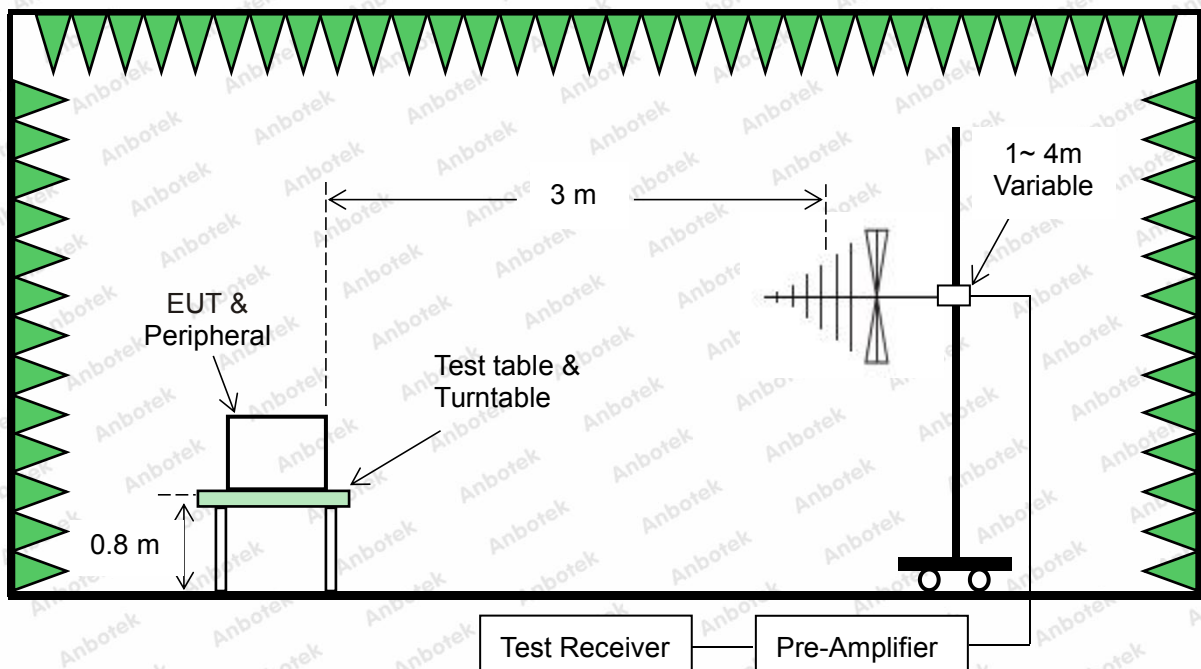
Remark: The lower limit shall apply at the transition frequencies.

Limit for radiated emissions at frequencies up to 1 GHz for class B equipment

Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Remark: The lower limit shall apply at the transition frequencies.

4.2. Test Setup



4.3. Test Procedure

The table-top EUT is placed on a non-conductive table 0.8 m above the horizontal ground reference plane. The floor-standing EUT is placed on an insulating support 0.1 m above the horizontal ground reference plane.

The EUT was set 3 m away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 m to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

4.4. Test Results

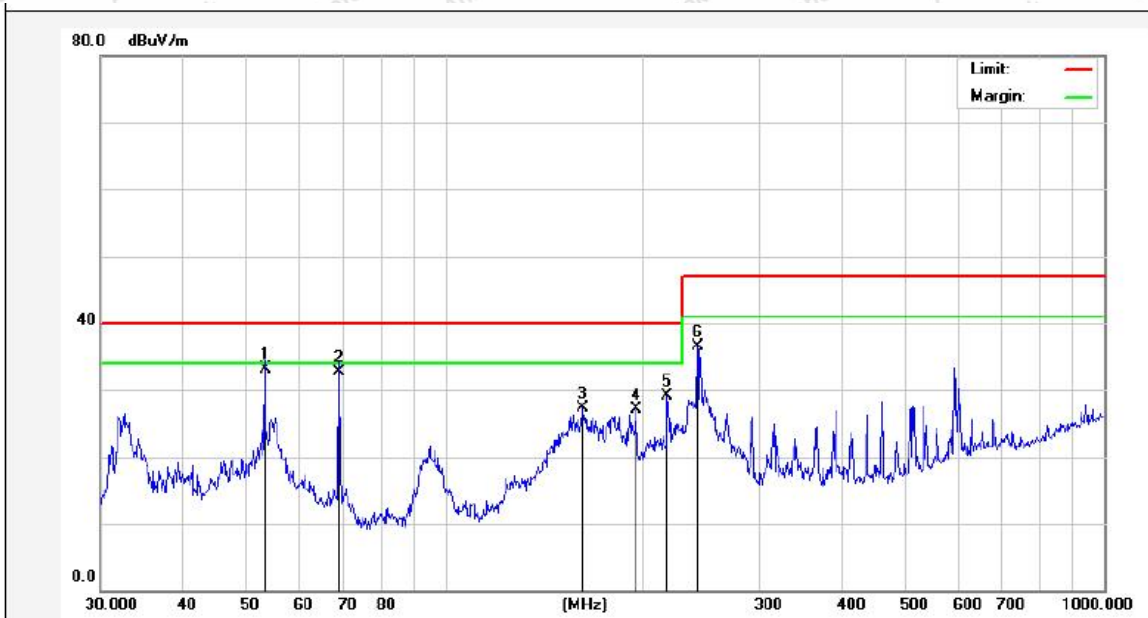
PASS

During the test, pre-scan all modes, only the worst case is recorded in the report.

The test curves are shown in the following pages.



Test item:	Radiation Test	Polarization:	Horizontal
Standard:	(RE)AS/NZS CISPR 32	Power Source:	AC 240V, 50Hz
Frequency Range:	30MHz ~ 1000MHz	Temp.(°C)/Hum.(%RH):	24.2(°C)/52%RH
Distance:	3m	Test Mode:	Mode 1

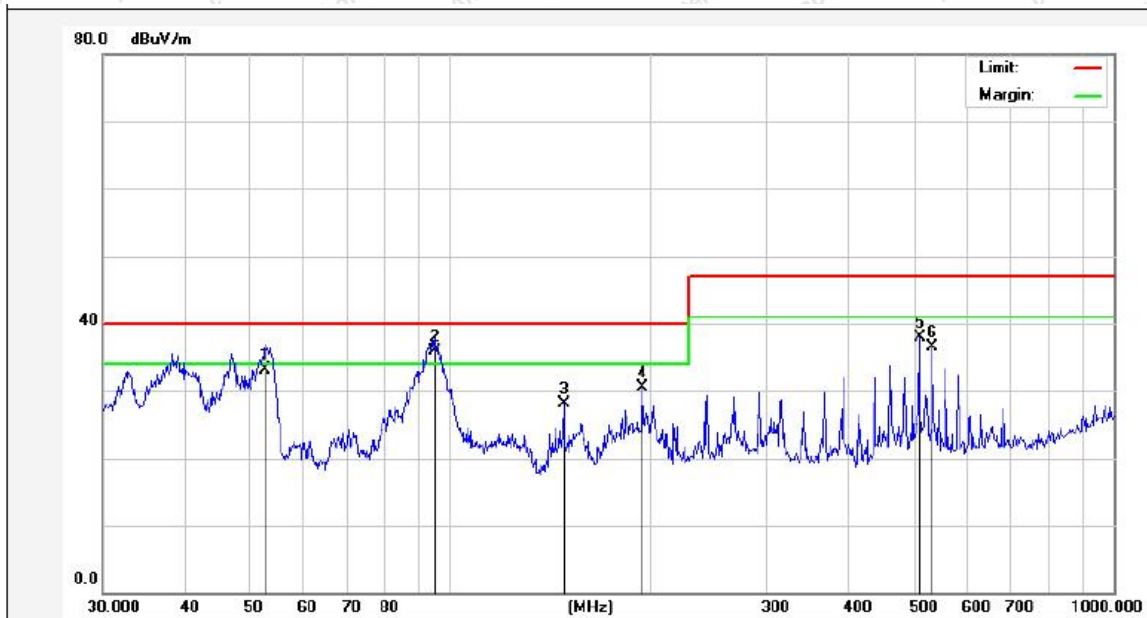


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	53.3179	50.20	-17.00	33.20	40.00	-6.80	QP			
2	69.1141	54.44	-21.73	32.71	40.00	-7.29	QP			
3	162.0414	51.34	-23.94	27.40	40.00	-12.60	QP			
4	195.1365	49.72	-22.53	27.19	40.00	-12.81	QP			
5	217.5443	51.21	-22.03	29.18	40.00	-10.82	QP			
6	241.6763	58.13	-21.64	36.49	47.00	-10.51	QP			

Note: Result= Reading + Factor Over Limit=Result-Limit



Test item:	Radiation Test	Polarization:	Vertical
Standard:	(RE)AS/NZS CISPR 32	Power Source:	AC 240V, 50Hz
Frequency Range:	30MHz ~ 1000MHz	Temp.(°C)/Hum.(%RH):	24.2(°C)/52%RH
Distance:	3m	Test Mode:	Mode 1



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	52.5753	49.93	-16.73	33.20	40.00	-6.80	QP			
2	94.7601	53.16	-17.23	35.93	40.00	-4.07	QP			
3	148.4410	50.21	-22.10	28.11	40.00	-11.89	QP			
4	195.1365	50.32	-19.89	30.43	40.00	-9.57	QP			
5	510.0436	50.00	-12.13	37.87	47.00	-9.13	QP			
6	533.8321	48.33	-11.92	36.41	47.00	-10.59	QP			

Note: Result= Reading + Factor Over Limit=Result-Limit



5. Radiated Emission Test (Above 1GHz)

5.1. Test Standard and Limit

Test Standard	AS/NZS CISPR 32
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Limit for radiated emissions at frequencies above 1 GHz for class A equipment

Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dB μ V/m)	
		Peak	Average
1000 ~ 3000	3	76	56
3000 ~ 6000	3	80	60

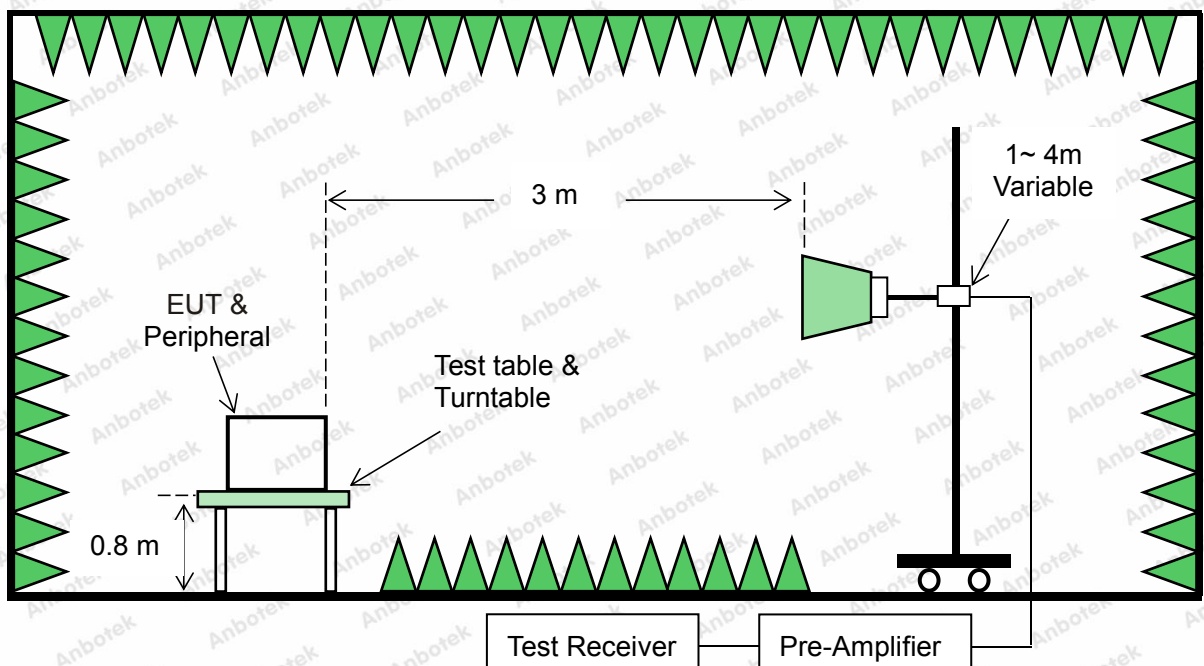
Remark: The lower limit shall apply at the transition frequencies.

Limit for radiated emissions at frequencies above 1 GHz for class B equipment

Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dB μ V/m)	
		Peak	Average
1000 ~ 3000	3	70	50
3000 ~ 6000	3	74	54

Remark: The lower limit shall apply at the transition frequencies.

5.2. Test Setup



5.3. Test Procedure

The table-top EUT is placed on a non-conductive table 0.8 m above the horizontal ground reference plane. The floor-standing EUT is placed on an insulating support 0.1 m above the horizontal ground reference plane.

The EUT was set 3 m away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 m to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The test receiver is set to peak and average detects function.

The bandwidth of the test receiver is set at 1MHz.

5.4. Test Results

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report.

The test curves are shown in the following pages.



Test Frequency:		1GHz~6GHz					
Temp.(°C)/Hum.(%RH):		24.2(°C)/52%RH					
Power Source:		AC 240V, 50Hz					
Test Mode:		Mode 1					
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
1404.40	48.19	-2.70	45.49	70.00	-24.51	H	PEAK
1991.07	46.78	-2.60	44.17	70.00	-25.83	H	PEAK
2093.14	46.20	-4.32	41.88	70.00	-28.12	H	PEAK
3979.55	53.07	-5.03	48.04	74.00	-25.96	H	PEAK
4364.42	47.66	-4.82	42.84	74.00	-31.16	H	PEAK
5104.38	53.58	-6.14	47.44	74.00	-26.56	H	PEAK
1404.40	40.53	-2.70	37.84	50.00	-12.16	H	AVG
1991.07	41.15	-2.60	38.55	50.00	-11.45	H	AVG
2093.14	41.24	-4.32	36.92	50.00	-13.08	H	AVG
3979.55	46.42	-5.03	41.39	54.00	-12.61	H	AVG
4364.42	41.10	-4.82	36.28	54.00	-17.72	H	AVG
5104.38	42.88	-6.14	36.73	54.00	-17.27	H	AVG
1642.42	51.80	-3.02	48.77	70.00	-21.23	V	PEAK
2175.09	54.43	-2.63	51.80	70.00	-18.20	V	PEAK
2258.78	55.04	-4.42	50.61	70.00	-19.39	V	PEAK
3871.45	53.90	-5.30	48.60	74.00	-25.40	V	PEAK
4301.53	47.19	-4.63	42.56	74.00	-31.44	V	PEAK
4881.62	54.21	-6.04	48.17	74.00	-25.83	V	PEAK
1642.42	35.94	-3.02	32.92	50.00	-17.08	V	AVG
2175.09	44.11	-2.63	41.48	50.00	-8.52	V	AVG
2258.78	40.98	-4.42	36.56	50.00	-13.44	V	AVG
3871.45	39.61	-5.30	34.31	54.00	-19.69	V	AVG
4301.53	39.65	-4.63	35.02	54.00	-18.98	V	AVG
4881.62	37.01	-6.04	30.97	54.00	-23.03	V	AVG

Note: Level=Read Level +Factor Over Limit=Level-Limit



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_EMG

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

