





EMC TEST REPORT

Applicant:	Micron Electronics LLC.			
Address:	1001 Yamato Road, Suite 400, Boo	ca Raton, FL 33431, USA		
Manufacturer or Supplier:	Micron Electronics LLC.			
Address:	1001 Yamato Road, Suite 400, Boo	ca Raton, FL 33431, USA		
Product:	Tracker			
Brand Name:	Prime			
Model Name:	CK106			
FCC ID:	ZKQ-CK106			
Date of tests:	Feb. 16, 2023 ~ Mar. 06, 2023			
The submitted sar following standards		peen tested for according to the requirements of the		
	Subpart B, Class A Subpart B, Class B 114			
CONCLUSION: Th	ne submitted sample was found to	COMPLY with the test requirement		
	ared by Simon Wang er / Mobile Department	Approved by Luke Lu Manager / Mobile Department		
	Simon wang luke lu			
	ate: Mar. 06, 2023	Date: Mar. 06, 2023		
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-230216W001EM01	Original release	Mar. 06, 2023

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GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tracker		
BRAND NAME	Prime		
MODEL NAME	CK106		
NOMINAL VOLTAGE	12Vdc(adapter or host 3.8Vdc (Li-ion, battery	,	
MODULATION TYPE	LTE CAT-M1/NB-IOT	QPSK/16QAM/BPSK	
OPERATING	LTE CAT-M1	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13)	
FREQUENCY	LTE NB-IOT	1850.2MHz ~ 1909.8MHz (FOR LTE Band2) 1710.2MHz ~ 1754.8MHz (FOR LTE Band4) 824.2MHz ~ 848.8MHz (FOR LTE Band5) 699.2MHz ~ 715.8MHz (FOR LTE Band12) 777.2MHz ~ 786.8MHz (FOR LTE Band13)	
HW VERSION	CK106_MB_V2_PCBA		
SW VERSION	CK106V02.01B02PTCRB		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	DC cable1: non-shielded cable, with w/o ferrite core, 0.23meter DC cable2: non-shielded cable, with w/o ferrite core, 0.23meter		
ACCESSORY DEVICES	Refer to note as below	1	

NOTE:

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- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



3. Sample 1 and Sample 2 Difference description

The difference between 2 line and 3 line of CK106 is that there is an open drain output interface. This function can be used to power up other devices such as relay. The schematic diagram is the same. It's just that there is one more line at the end.

List of Accessory:

ACCESSORIES	ACCESSORIES BRAND MANUFACTURER		MODEL	SPECIFICATION
Battery	Battery N/A		N/A	Capacity: 3.8Vdc, 130mAh
DC cable 1 N/A SHANGHAI WUYANG ELECTRONIC TECHNOLOGY CO., LTD		WUYANG ELECTRONIC TECHNOLOGY	N/A	Signal Line,0.23meter
DC cable 2 N/A SHANGHAI WUYANG ELECTRONIC TECHNOLOGY CO., LTD		N/A	Signal Line,0.23meter	

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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				
FCC Part 15,	Conducted Test	Compliance		
Subpart B, Class B	Radiated Emission Test (30MHz ~ 1GHz)	Compliance		
ANSI C63.4:2014	Radiated Emission Test (Above 1GHz)	Compliance		

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	±2.70dB
	30MHz~1GHz	±4.98dB
Dodisted emissions	1GHz ~6GHz	±4.70dB
Radiated emissions	6GHz ~18GHz	±4.60dB
	18GHz ~40GHz	±4.12dB

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1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition		
	Radiated emission test		
1	Cat M B5 Idle + DC 12V + DC Cable 1		
2	Cat M B12 Idle + DC 12V + DC Cable 1		
3	Cat M B13 Idle + DC 12V + DC Cable 1		
4	NBIOT B5 Idle + DC 12V + DC Cable 1		
5	NBIOT B12 Idle + DC 12V + DC Cable 1		
6	NBIOT B13 Idle + DC 12V+ DC Cable 1		
7	worst of 1-6 + DC Cable 2		

	Conducted emission test			
1	Cat M B5 Idle + DC 12V + DC Cable 1			
2	Cat M B12 Idle + DC 12V + DC Cable 1			
3	Cat M B13 Idle + DC 12V + DC Cable 1			
4	NBIOT B5 Idle + DC 12V + DC Cable 1			
5	NBIOT B12 Idle + DC 12V + DC Cable 1			
6	NBIOT B13 Idle + DC 12V+ DC Cable 1			
7	worst of 1-6 (Mode 5) + DC Cable 2			

NOTE:

- 1. For conducted emission test, Pre-scan all mode, mode 7 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, Pre-scan all mode, test mode 3 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 All TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	Kikusui/JP	PMX18-5A	N/A	N/A
2	DC source	Kikusui/JP	PMX18-5A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 0.23m

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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 A CLASS B)

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

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 B CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)		
	Quasi-peak	Average	
0.15 ~ 0.5	79	66	
0.5 ~ 30	73	60	

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	Feb. 14,23	Feb. 13,24
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 04,22	Mar. 03,23
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 03,23	Mar. 02,24

NOTE: 1. The test was performed in CE shielded room.

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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.

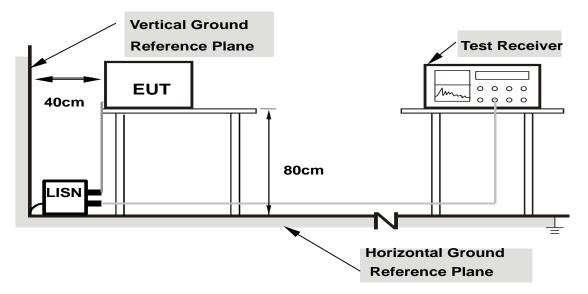
2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

2.1.5 TEST SETUP

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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.

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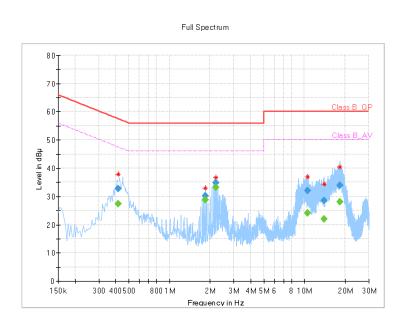
2.1.7 TEST RESULTS

TEST VOLTAGE	DC 12V	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.416000		27.40	47.53	20.13	L1	ON	9.7
0.416000	32.87		57.53	24.66	L1	ON	9.7
1.836000		28.68	46.00	17.32	L1	ON	9.7
1.836000	30.19		56.00	25.81	L1	ON	9.7
2.196000		33.29	46.00	12.71	L1	ON	9.7
2.196000	34.91		56.00	21.09	L1	ON	9.7
10.576000		24.04	50.00	25.96	L1	ON	9.8
10.576000	32.09		60.00	27.91	L1	ON	9.8
14.028000		22.07	50.00	27.93	L1	ON	9.8
14.028000	28.53		60.00	31.47	L1	ON	9.8
18.232000		28.03	50.00	21.97	L1	ON	9.8
18.232000	33.94		60.00	26.06	L1	ON	9.8

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 = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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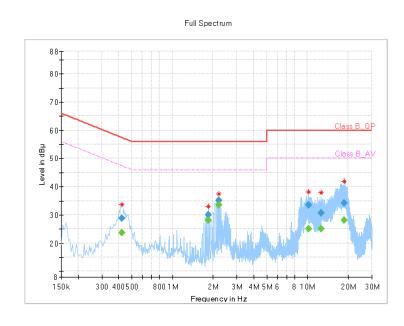


TEST VOLTAGE	HIC 12W	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.424000		23.73	47.37	23.64	N	ON	9.7
0.424000	28.82		57.37	28.55	N	ON	9.7
1.840000		28.09	46.00	17.91	N	ON	9.8
1.840000	30.07		56.00	25.93	N	ON	9.8
2.196000		33.50	46.00	12.50	N	ON	9.8
2.196000	35.11		56.00	20.89	N	ON	9.8
10.220000		25.18	50.00	24.82	N	ON	9.8
10.220000	33.38		60.00	26.62	N	ON	9.8
12.636000		25.08	50.00	24.92	N	ON	9.8
12.636000	30.61		60.00	29.39	N	ON	9.8
18.740000		28.15	50.00	21.85	N	ON	9.9
18.740000	34.24		60.00	25.76	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 = Limit value Emission level
- 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 3 meters (dBµV/m)					
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B			
30-88	49	40			
88-216	53.5	43.5			
216-960	56	46			
960-1000	59.5	54			
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 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.

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2.2.2 TEST INSTRUMENTS

Frequency range below1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN		Euroshieldpn- CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,23	Mar. 04,24
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,22	Feb. 17,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 17,23	Feb. 16,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
E3 Test Software	E3	V 9.160323	N/A	N/A	N/A

Frequency range above 1GHz

quency range above		I	I	I	l
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 19,20	May. 18,23
Horn Antenna	ETS-LINDGREN	3117	00168728	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168728	Mar. 05,23	Mar. 04,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18 -40-K-SG/Q MS-00361	15433	Sep.04, 22	Sep.03, 23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,22	Feb. 17,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 17,23	Feb. 16,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 18,22	Feb. 17,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb. 16,24
E3 Test Software	E3	V 9.160323	N/A	N/A	N/A

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

2. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



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:

- . The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- . 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 1Hz for Average detection (AV) at frequency above 1GHz.
- . For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- . Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- . Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- . Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- . Margin value = Emission level Limit value.

2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

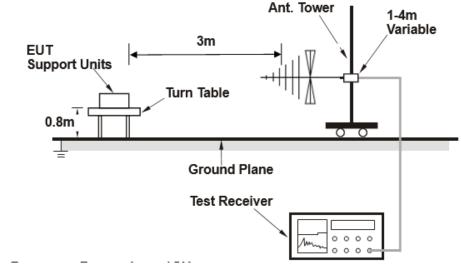
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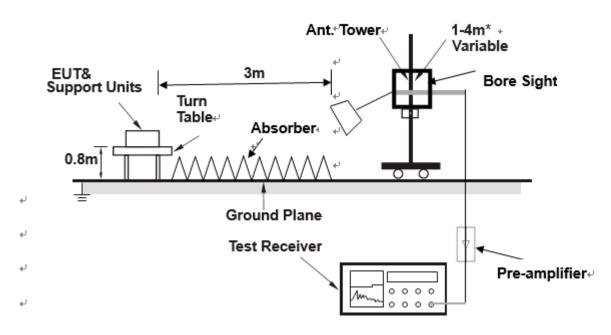


2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth 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

Acceleromete alternative worst case:

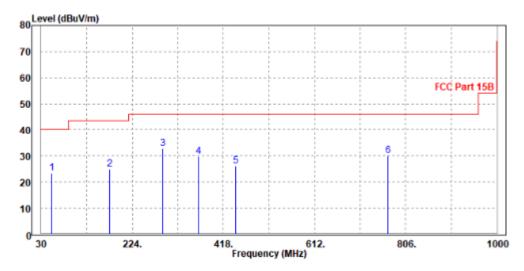
TEST VOLTAGE	DC 12V	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Jace Hu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	52.310	23.54	50.15	40.00	-16.46	-26.61	Peak	Horizontal
2	176.470	24.87	49.28	43.50	-18.63	-24.41	Peak	Horizontal
3 PP	288.990	32.95	54.43	46.00	-13.05	-21.48	Peak	Horizontal
4	365.620	29.70	49.60	46.00	-16.30	-19.90	Peak	Horizontal
5	444.190	26.19	44.52	46.00	-19.81	-18.33	Peak	Horizontal
6	768.170	30.23	43.73	46.00	-15.77	-13.50	Peak	Horizontal

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)

- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)- Amplifier Gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



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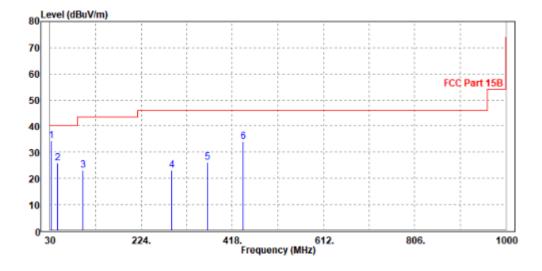
TEST VOLTAGE	DC 12V	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70% RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Jace Hu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line		Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PP	31.940	34.34	52.12	40.00	-5.66	-17.78	Peak	Vertical
2	45.520	25.91	51.33	40.00	-14.09	-25.42	Peak	Vertical
3	100.810	23.21	50.43	43.50	-20.29	-27.22	Peak	Vertical
4	288.990	23.10	44.78	46.00	-22.90	-21.68	Peak	Vertical
5	364.650	26.12	45.97	46.00	-19.88	-19.85	Peak	Vertical
6	440.310	34.04	52.59	46.00	-11.96	-18.55	Peak	Vertical

REMARKS:

- 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



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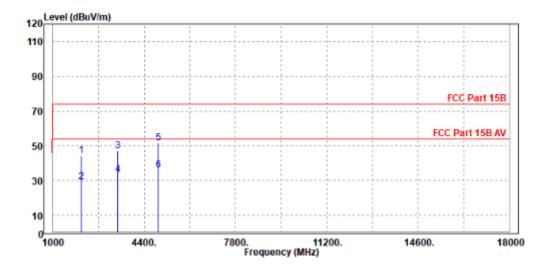


TEST VOLTAGE	DC 12V	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Jace Hu		

	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
2054	44.19	50.63	74	-29.81	33.97	5.71	46.12	200	0	Peak
2054	29.39	35.83	54	-24.61	33.97	5.71	46.12	200	0	Average
3397	47.21	49.17	74	-26.79	36.08	7.54	45.58	100	355	Peak
3397	33.35	35.31	54	-20.65	36.08	7.54	45.58	100	355	Average
4910	51.54	50.25	74	-22.46	36.83	9.96	45.5	100	180	Peak
4910	36.13	34.84	54	-17.87	36.83	9.96	45.5	100	180	Average

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 5th harmonic of the highest frequency or 40GHz, whichever is lower .For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.
- 4. Only emissions significantly above equipment noise floor are reported.

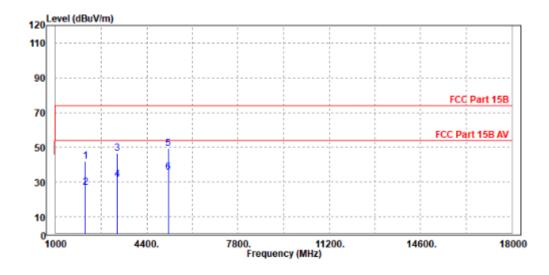




TEST VOLTAGE	DC 12V	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Jace Hu		

	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
2122	41.83	49.85	74	-32.17	32.27	5.8	46.09	100	350	Peak
2122	26.81	34.83	54	-27.19	32.27	5.8	46.09	100	350	Average
3278	46.5	50.83	74	-27.5	33.92	7.37	45.62	100	40	Peak
3278	31.51	35.84	54	-22.49	33.92	7.37	45.62	100	40	Average
5199	49.41	49.74	74	-24.59	35.28	9.9	45.51	100	90	Peak
5199	35.5	35.83	54	-18.5	35.28	9.9	45.51	100	90	Average

- 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 5th harmonic of the highest frequency or 40GHz, whichever is lower .For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.
 - 4. Only emissions significantly above equipment noise floor are reported.





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---

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