



Report No.: FC3D1840-01

# **FCC EMI TEST REPORT**

FCC ID : GKREXMG1A
Equipment : LTE Module
Brand Name : COMPAL
Model Name : EXM-G1A

Applicant : Compal Electronics, Inc.

No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan

Manufacturer : Compal Electronics, Inc.

No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan

Standard : FCC 47 CFR FCC Part 15 Subpart B Class B

The product was received on Dec. 19, 2023 and testing was performed from Dec. 28, 2023 to Feb. 20, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4a-2017 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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# History of this test report

Report No. : FC3D1840-01

Report No.	Version	Description	Issue Date
FC3D1840-01	01	Initial issue of report	Mar. 18, 2024

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## **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	19.03 dB under the limit at 0.42 MHz
3.2	15.109	Radiated Emission	Pass	13.47 dB under the limit at 937.00 MHz

#### **Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the
  regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who
  shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken
  into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng Report Producer: Mila Chen

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# 1. General Description

## 1.1. Product Feature of Equipment Under Test

**Product Feature** 

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**General Specs** 

WCDMA/LTE, and GNSS.

**Antenna Type** 

WWAN: PIFA Antenna / Monopole Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

### 1.2. Modification of EUT

No modifications made to the EUT during the testing.

### 1.3. Test Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
	No.52, Huaya 1st Rd., Guishan Dist.,
Test Site Location	Taoyuan City 333, Taiwan (R.O.C.)
rest Site Location	TEL: +886-3-327-3456
	FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
rest site No.	CO05-HY, 03CH06-HY

FCC designation No.: TW1093

## 1.4. Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B Class B
- ANSI C63.4a-2017

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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# 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT is tested along with the peripherals, operating under possible configurations in compliant with normal operation. The maximum emissions can be identified by a pre-scan carried out in different orientations of placement pursuant to ANSI C63.4a-2017. Frequency range covered: Conduction Emission (150 kHz to 30 MHz), Radiation Emission (30 MHz to the 5<sup>th</sup> harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

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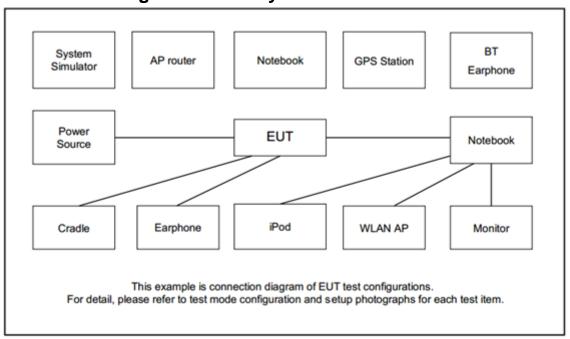
Test Items	Functions Enabled
	Mode 1: Monopole 8 Antenna + LTE Band 26 Link + GPS Rx + Adapter
AC Conducted	Mode 2: PIFA 3 Antenna + LTE Band 12 Link + GPS Rx + Adapter
AC Conducted Emission	Mode 3: Monopole 2 Antenna + LTE Band 13 Link + GPS Rx + Adapter
Lillission	Mode 4: Monopole 2 Antenna + LTE Band 14 Link + GPS Rx + Adapter
	Mode 5: Monopole 5 Antenna + LTE Band 71 Link + GPS Rx + Adapter
	Mode 1: Monopole 8 Antenna + LTE Band 26 Link + GPS Rx + Adapter
Da Pata I	Mode 2: PIFA 3 Antenna + LTE Band 12 Link + GPS Rx + Adapter
Radiated Emissions	Mode 3: Monopole 2 Antenna + LTE Band 13 Link + GPS Rx + Adapter
Lillissions	Mode 4: Monopole 2 Antenna + LTE Band 14 Link + GPS Rx + Adapter
	Mode 5: Monopole 5 Antenna + LTE Band 71 Link + GPS Rx + Adapter

#### Remark:

- 1. The worst case of AC is mode 4; only the test data of this mode was reported.
- 2. The worst case of RE is mode 1; only the test data of this mode was reported.
- 3. For Radiation Emission after pre-scanned the cellular band between 30MHz ~ 960MHz (LTE Band 12/13/14/71/26); only the worst case for cellular band test data of this mode was reported.

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## 2.2. Connection Diagram of Test System



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## 2.3. Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	FRECOM	F24L3-120200SPAU	N/A	N/A	N/A
4.	Fixture	Compal	ZXL2	N/A	N/A	N/A

## 2.4. EUT Operation Test Setup

The EUT is in LTE idle mode during the test. The EUT is synchronized with the BCCH, and has been continuous receiving mode by setting paging reorganization of the system simulator.

And the following programs installed in the EUT are programmed during the test:

1. Execute "GPS" to make the EUT receive continuous signals from GPS station.

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### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1. Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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#### <Class B>

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

### 3.1.2. Measuring Instruments

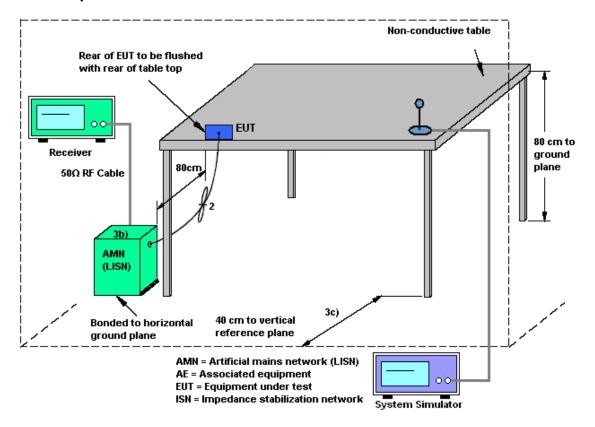
Please refer to the measuring equipment list in this test report.

#### 3.1.3. Test Procedure

- 1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
- 6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
- 7. The frequency range from 150 kHz to 30 MHz is scanned.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (If Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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## 3.1.4. Test Setup



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### 3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.

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#### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

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#### <Class B>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	
30 – 88	100	3	
88 – 216	150	3	
216 - 960	200	3	
Above 960	500	3	

### 3.2.2. Measuring Instruments

Please refer to the measuring equipment list in this test report.

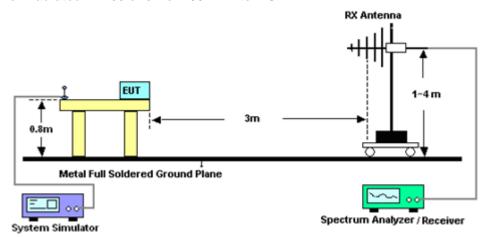
#### 3.2.3. Test Procedures

- 1. The EUT is placed on a turntable with 0.8 meter above ground.
- 2. The EUT is set 3 meters from the interference receiving antenna, which is mounted on the top of a variable height antenna tower.
- 3. The table is rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
- 7. If the emission level of the EUT in peak mode is 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

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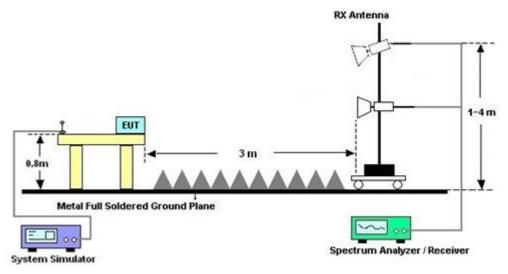
## 3.2.4. Test Setup of Radiated Emission

#### For Radiated Emissions from 30 MHz to 1 GHz



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#### For Radiated Emissions above 1GHz



### 3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.

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# 4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 20, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Feb. 20, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Feb. 20, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Feb. 20, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Feb. 20, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZB ECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2023	Feb. 20, 2024	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Feb. 20, 2024	Dec. 27, 2024	Conduction (CO05-HY)
Amplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 17, 2023	Dec. 28, 2023	Apr. 16, 2024	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL 6111C & N-6-06	2725 & AT-N0601	30MHz~1GHz	Nov. 03, 2023	Dec. 28, 2023	Nov. 02, 2024	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 13, 2023	Dec. 28, 2023	Feb. 12, 2024	Radiation (03CH06-HY)
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 23, 2023	Dec. 28, 2023	Mar. 22, 2024	Radiation (03CH06-HY)
Preamplifier	Jet-Power	JPA00101800-3 0-10P	1601180001	1GHz~18GHz	Jul. 16, 2023	Dec. 28, 2023	Jul. 15, 2024	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	104 SF102_2000mm SF102_3000mm SF102_7000mm	802433/4 532421/2 532422/2 532299/2	30Mhz to 18Ghz	Jul. 03, 2023	Dec. 28, 2023	Jul. 02, 2024	Radiation (03CH06-HY)
Hygrometer	TECPEL	DTM-303B	TP210018	N/A	Oct. 24, 2023	Dec. 28, 2023	Oct. 23, 2024	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Dec. 28, 2023	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Dec. 28, 2023	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Dec. 28, 2023	N/A	Radiation (03CH06-HY)
Software	Audix	E3 6.2009-8-24(k5)	N/A	N/A	N/A	Dec. 28, 2023	N/A	Radiation (03CH06-HY)

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# 5. Measurement Uncertainty

### **Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)**

Measuring Uncertainty for a Level of Confidence	3.5 dB
of 95% (U = 2Uc(y))	3.5 dB

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#### **Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

Measuring Uncertainty for a Level of Confidence	6.3 dB
of 95% (U = 2Uc(y))	0.3 dB

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence	4.7 dB
of 95% (U = 2Uc(y))	4.7 dB

#### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	
of 95% (U = 2Uc(y))	4.6 dB

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# **Appendix A. AC Conducted Emission Test Results**

Tool Funinces	Calvin Wang	Те	emperature :	<b>23~26</b> ℃
Test Engineer :	Calvin wang	Re	elative Humidity :	45~55%

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## **EUT Information**

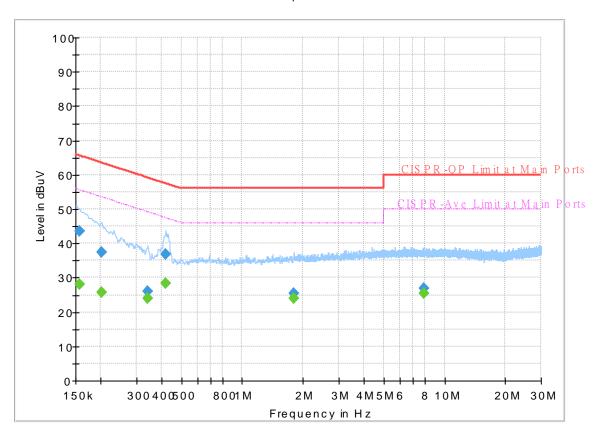
 Report NO :
 3D1840-01

 Test Mode :
 Mode 4

 Test Voltage :
 120Vac/60Hz

Phase: Line

### FullSpectrum



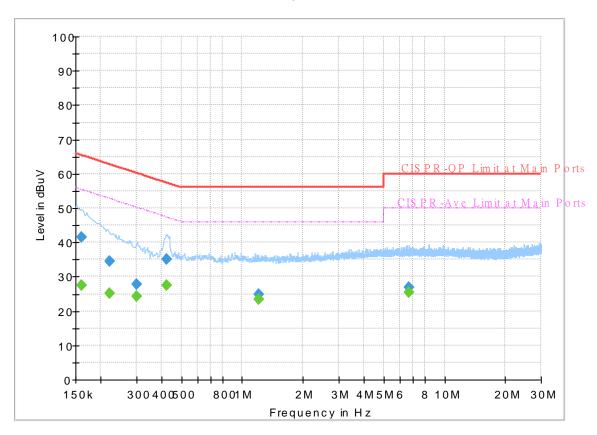
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750		28.08	55.63	27.55	L1	OFF	19.8
0.156750	43.46		65.63	22.17	L1	OFF	19.8
0.201750		25.72	53.54	27.82	L1	OFF	19.8
0.201750	37.34		63.54	26.20	L1	OFF	19.8
0.339000		23.84	49.23	25.39	L1	OFF	19.8
0.339000	26.14		59.23	33.09	L1	OFF	19.8
0.420000		28.42	47.45	19.03	L1	OFF	19.8
0.420000	36.89	-	57.45	20.56	L1	OFF	19.8
1.792500		23.85	46.00	22.15	L1	OFF	19.9
1.792500	25.43	-	56.00	30.57	L1	OFF	19.9
7.950750		25.57	50.00	24.43	L1	OFF	20.1
7.950750	26.86		60.00	33.14	L1	OFF	20.1

## **EUT Information**

Report NO: 3D1840-01
Test Mode: Mode 4
Test Voltage: 120Vac/60Hz
Phase: Neutral

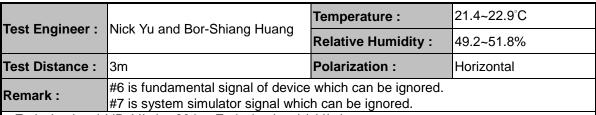
FullSpectrum



## **Final Result**

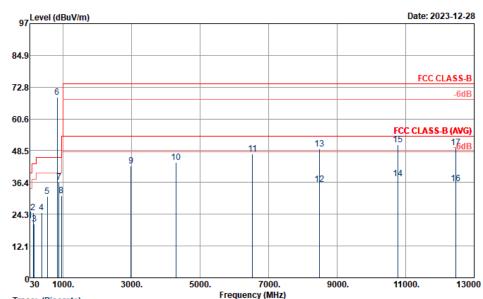
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Filter	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)			(dB)
0.161250		27.43	55.40	27.97	N	OFF	19.8
0.161250	41.54		65.40	23.86	N	OFF	19.8
0.222000	-	25.03	52.74	27.71	N	OFF	19.8
0.222000	34.57		62.74	28.17	N	OFF	19.8
0.300750		24.28	50.22	25.94	N	OFF	19.8
0.300750	27.86		60.22	32.36	N	OFF	19.8
0.424500		27.56	47.36	19.80	N	OFF	19.8
0.424500	35.02		57.36	22.34	N	OFF	19.8
1.203000		23.42	46.00	22.58	N	OFF	19.8
1.203000	25.00		56.00	31.00	N	OFF	19.8
6.634500	-	25.54	50.00	24.46	N	OFF	20.1
6.634500	26.85		60.00	33.15	N	OFF	20.1

# **Appendix B. Radiated Emission Test Result**



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- Emission level (dBµV/m) = 20 log Emission level (µV/m)
- Factor(dB) = Antenna Factor + Cable Loss + Filter loss Preamp Factor
- Corrected Reading: Factor(dB) + Read Level = Level



Trace: (Discrete)

Site : 03CH06-HY

Condition : FCC CLASS-B 3m 9120D\_1212 HORIZONTAL

Over Limit Read

Project : 3D1840-01 Power : 120Vac/60Hz Memo : Mode 1

							,	.,. 02	
	Freq	Level	Limit	Line	Level	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	cm	deg	
1	30.81	21.86	-18.14	40.00	28.69	-6.83			Peak
2	131.25	24.79	-18.71	43.50	36.84	-12.05			Peak
3	160.41	20.40	-23.10	43.50	33.61	-13.21			Peak
4	379.10	24.78	-21.22	46.00	32.17	-7.39			Peak
5	539.40	31.09	-14.91	46.00	34.64	-3.55			Peak
6 *	831.50	68.80			67.43	1.37			Peak
7	876.50	36.59			34.89	1.70			Peak
8	956.60	31.26	-14.74	46.00	27.11	4.15			Peak
9	2984.00	42.61	-31.39	74.00	64.27	-21.66			Peak
10	4296.00	44.00	-30.00	74.00	63.23	-19.23			Peak
11	6530.00	47.18	-26.82	74.00	60.74	-13.56			Peak
12	8482.00	35.64	-18.36	54.00	46.30	-10.66	100	85	Average
13	8482.00	49.16	-24.84	74.00	59.82	-10.66	100	85	Peak
14	10772.00	37.73	-16.27	54.00	45.11	-7.38	100	258	Average
15	10772.00	50.78	-23.22	74.00	58.16	-7.38	100	258	Peak
16	12468.00	35.90	-18.10	54.00	41.80	-5.90	100	122	Average
17	12468.00	49.74	-24.26	74.00	55.64	-5.90	100	122	Peak

A/Pos T/Pos

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Nick Yu and Bor-Shiang **Temperature**: 21.4~22.9°C

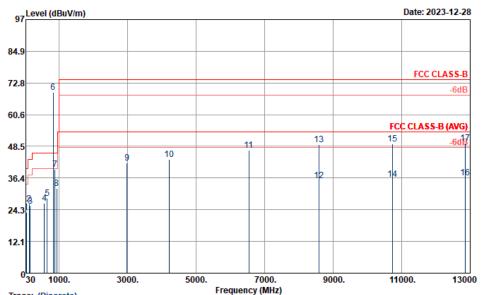
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Test Engineer : Nick Yu and Bor-Shiang Temperature : 21.4~22.9°C
Huang Relative Humidity : 49.2~51.8%

Test Distance :3mPolarization :Vertical

#6 is fundamental signal of device which can be ignored.
#7 is system simulator signal which can be ignored.

- Emission level (dBµV/m) = 20 log Emission level (µV/m)
- Factor(dB) = Antenna Factor + Cable Loss + Filter loss Preamp Factor
- Corrected Reading: Factor(dB) + Read Level = Level



Trace: (Discrete)

Site : 03CH06-HY

Condition : FCC CLASS-B 3m 9120D\_1212 VERTICAL

Project : 3D1840-01 Power : 120Vac/60Hz Memo : Mode 1

			0ver	Limit	Read		A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	cm	deg	
	45.00	02.07	46.73	40.00	27.47	44.00			
1	45.93	23.2/	-16.73	40.00	3/.4/	-14.20			Peak
2	128.82	26.36	-17.14	43.50	38.44	-12.08			Peak
3	159.87	25.78	-17.72	43.50	38.96	-13.18			Peak
4	573.00	26.65	-19.35	46.00	29.11	-2.46			Peak
5	658.40	28.77	-17.23	46.00	30.15	-1.38			Peak
6 *	831.50	69.09			67.72	1.37			Peak
7	876.50	39.76			38.06	1.70			Peak
8	937.00	32.53	-13.47	46.00	28.36	4.17			Peak
9	2986.00	42.04	-31.96	74.00	63.70	-21.66			Peak
10	4214.00	43.38	-30.62	74.00	62.85	-19.47			Peak
11	6544.00	47.13	-26.87	74.00	60.62	-13.49			Peak
12	8578.00	35.26	-18.74	54.00	46.10	-10.84	100	211	Average
13	8578.00	49.16	-24.84	74.00	60.00	-10.84	100	211	Peak
14	10742.00	35.90	-18.10	54.00	43.30	-7.40	100	68	Average
15	10742.00	49.47	-24.53	74.00	56.87	-7.40	100	68	Peak
16	12854.00	36.56	-17.44	54.00	41.19	-4.63	100	155	Average
17	12854.00	49.84	-24.16	74.00	54.47	-4.63	100	155	Peak

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