

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

	OF			
Product Name:	UniPay III			
Brand Name:	ID TECH			
Model No.:	IDMR-AB93133W & IDMR-XX93Y33Z (Y=1,2,9; XX=AA, AB, UB; Z=W,B) 1=Standard, 2=Housing without logo, 9=Customer logo AB= Audio Jack and USB, UB=USB only			
Model Difference	 1. With Audio Jack and without Audio Jack. 2. Black or white housing. 3. Audio communication differences with or without. 			
FCC ID:	WQJ-UNIPAYIII			
Report No.:	E2/2015/A0057			
Issue Date:	Nov. 16, 2015			
FCC Rule	§15.225			
Prepared for:	ID TECH			
Prepared by:	10721 Walker St. Cypress, CA 90630 SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333			
Taff Testing Laboratory 0513	Note: This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.			

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VERIFICATION OF COMPLIANCE

Applicant: Product Name:	ID TECH 10721 Walker St. Cypress, CA 90630 UniPay III
Brand Name: Model No.:	ID TECH IDMR-AB93133W & IDMR-XX93Y33Z (Y=1,2,9; XX=AA, AB, UB; Z=W,B) 1=Standard, 2=Housing without logo, 9=Customer logo AB= Audio Jack and USB, UB=USB only
Model Difference:	 With Audio Jack and without Audio Jack. Black or white housing. Audio communication differences with or without. WQJ-UNIPAYIII
File Number:	E2/2015/A0055
Date of test:	Oct. 21, 2015 ~ Nov. 06, 2015
	0.1.01.0015

Date of EUT Received: Oct. 21, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2009nd the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Jerry Lu	Date:	Nov. 16, 2015
	Jerry Lu / Engineer		
Prepared By:	Allen Isai	Date:	Nov. 16, 2015
Approved By	Allen Tsai / Engineer Jim Ch ang	Date:	Nov. 16, 2015
	Jim Chang / Asst. Manage	r	

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/A0055	Rev.00	Initial creation of document	Nov. 16, 2015

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GENERAL INFORMATION 1

1.1 **Product Description**

General:

Product Name:	UniPay III			
Brand Name:	ID TECH	ID TECH		
Model No.:	IDMR-AB93133W & IDMR-XX93Y33Z (Y=1,2,9; XX=AA, AJ, AB, UB; Z=W,B) 1=Standard, 2=Housing without logo, 9=Customer logo AJ=Audio Jack, AB= Audio Jack and USB, UB=USB only			
	1. With Audio Jack and without Audio Jack.			
Model Difference:	2. Black or white housing.			
	3. Audio co	mmunication differences with or without.		
Software version:	NEO1.01			
Hardware version:	80149001			
	3.7Vdc from Battery or 5V from USB port			
Power Supply:	Battery :	Model No.: LP701235 1S 240mAh Supplier: YAODE TECHNOLOGY CO., LIMITED		

NFC:

 0.	
Operating Frequency:	13.56MHz
Transmit Power:	< 123.90dBuV/m at 3m.
Number of Channels:	1
Antenna Type:	Loop Antenna
Modulation Type:	ASK



1.2 **Product Feature of Equipment Under Test**

The equipment under Test (Hereafter Called: EUT) is supporting, NFC features, and below is details of information

Product Feature				
Product Name:	UniPay III			
Brand Name: ID TECH				
Model No.: IDMR-AB93133W & IDMR-XX93Y33Z (Y=1,2,9; XX=AA, AJ, AB, UB; Z=W,B) 1=Standard, 2=Housing without logo, 9=Customer logo AJ=Audio Jack, AB= Audio Jack and USB, UB=USB o				
Model Difference:	1.LED Color. 2.With Magnetic head and without Magnetic head.			
FCC ID	WQJ-UNIPAYIII			
NFC Specification NFC				

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.225

ANSI C63.10:2009

All test items have been performed and record as per the above standards.

The composite system (digital device) is compliance with FCC Subpart B is authorized under the certification procedure.

1.4 **Test Facility**

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 628985 (Wugu)

Canada Registration Number: 4620A-5.

1.5 **Special Accessories**

There is no special accessory used while test was conducted.

Equipment Modifications 1.6

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 **Test Procedure**

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.27. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.



2.5 **Configuration of Tested System**



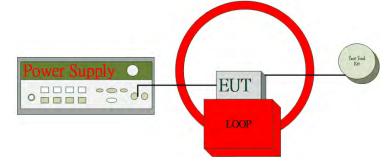


Fig. 2-2 AC Power Line Conducted Emission

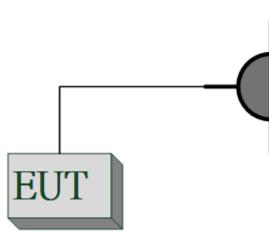


Table 2-1 Equipment Used in Tested System

ltem	Equipment	Mfr/Brand	Model / Type No.	Series No.	Data Cable	Power Cord
1.	NFC Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded

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SUMMARY OF TEST RESULTS 3

FCC Rules	FCC Rules Description Of Test	
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	20 dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

DESCRIPTION OF TEST MODES 4

The Worst Test Modes and Channel Details 4.1

- 1. The EUT stay in continuous transmitting mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
NFC	1	1	ASK			
FREQUENCY STABILITY						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
NFC	1 1 A		ASK			
20dB BANDWIDTH						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
NFC	1	1	ASK			

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MEASUREMENT UNCERTAINTY 5

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Frequency Stability	+/- 51.33 Hz
20 dB OCCUPIED BANDWIDTH	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB
(Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB

	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB

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

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6 CONDUCTED EMISSION TEST

6.1 **Standard Applicable:**

According to §15.207, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Eroquonov rongo		nits ′uV)
Frequency range	UD(uv)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		

1. The lower limit shall apply at the transition frequencies

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

6.2 Measurement Equipment Used:

6.3 EUT Setup:

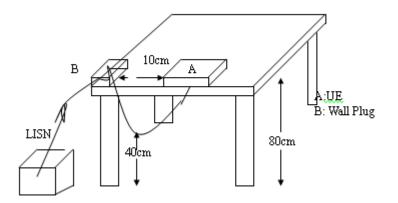
- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2009.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plan.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

Measurement Result: 6.6

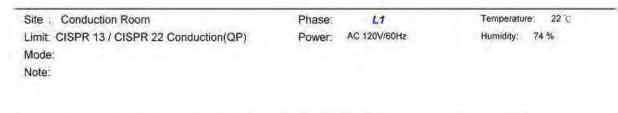
Note: Refer to next page for measurement data and plots. Note2: The * reveals the worst-case results that closet to the limit

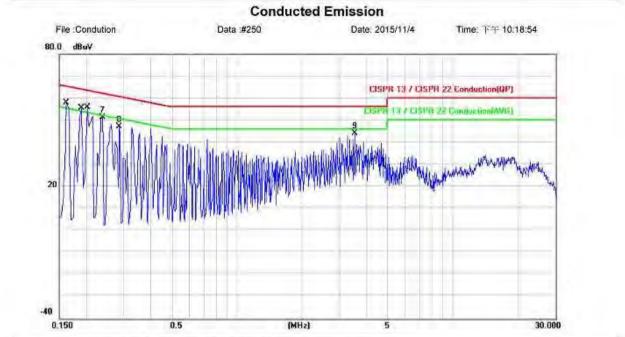
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AC POWER LINE CONDUCTED EMISSION TEST DATA





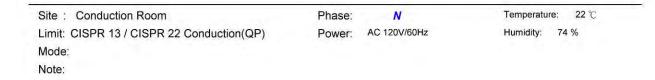
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	1	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	50.80	0.08	50.88	65.36	-14.48	QP	
2		0.1620	21.50	0.08	21.58	55.36	-33.78	AVG	
3		0.1900	47.50	0.07	47.57	64.04	-16.47	QP	
4		0.1900	22.70	0.07	22.77	54.04	-31.27	AVG	
5		0.2020	54.10	0.07	54.17	63,53	-9.36	QP	
6	*	0.2020	44.30	0.07	44.37	53.53	-9.16	AVG	
7		0.2380	51.30	0.09	51.39	62.17	-10.78	peak	
8		0.2860	47,09	0.11	47.20	60.64	-13.44	peak	
9		3.5220	43.45	0.60	44.05	56.00	-11.95	peak	

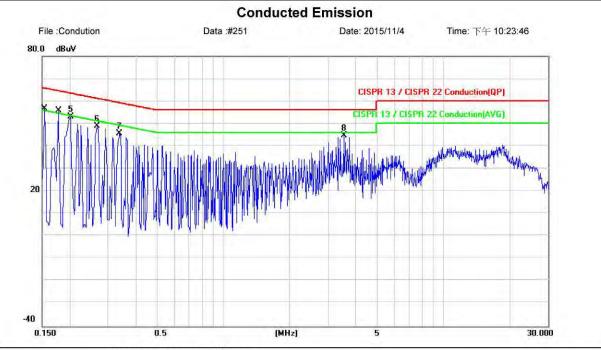
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	51.50	0.14	51.64	65.78	-14.14	QP	
2		0.1540	21.50	0.14	21.64	55.78	-34.14	AVG	
3		0.1780	48.30	0.14	48.44	64.58	-16.14	QP	
4		0.1780	19.40	0.14	19.54	54.58	-35.04	AVG	
5	*	0.2020	52.88	0.13	53.01	63.53	-10.52	peak	
6		0.2660	48.67	0.16	48.83	61.24	-12.41	peak	
7		0.3380	45.55	0.19	45.74	59.25	-13.51	peak	
8		3.5380	44.10	0.65	44.75	56.00	-11.25	peak	

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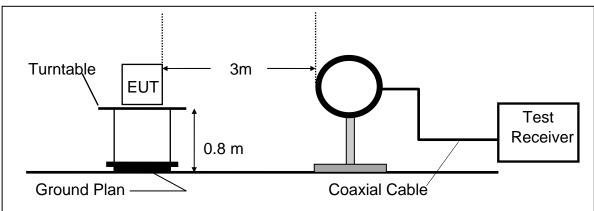
RADIATED TEST ITEMS 7

7.1 **Measurement Procedure**

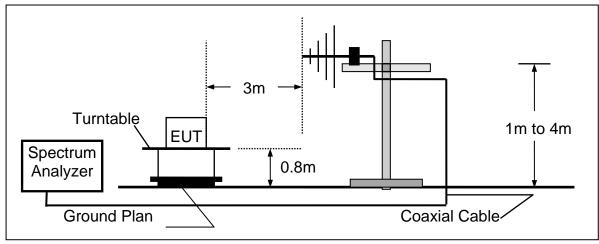
- 1. Configure the EUT according to ANSI C63.4.
- 2. The EUT was placed on a turn table which is 0.8m above ground plan.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until all default test channel measured were complete

7.2 **Test SET-UP**

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency Below 1000MHz (B)



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



В

		966 Chambe	r		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESU 40	100363	Apr.09, 2015	Apr.08, 2016
Loop Antenna	ETS-Lindgren	6502	143303	Dec.09, 2014	Dec.08, 2015
Broadband Antenna	TESEQ	CBL 6112D	35240	Dec.05, 2014	Dec.04, 2015
Pre Amplifier	EMC Instruments	EMC330	980096	Dec.19, 2014	Dec.18, 2015
Coaxial Cable	Huber+Suhner	RG 214/U	W21.03	Dec.19, 2014	Dec.18, 2015
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	Dec.19, 2014	Dec.18, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104	MY17413/4	Dec.19, 2014	Dec.18, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104	MY17404/4	Dec.19, 2014	Dec.18, 2015
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.

7.3 Measurement Equipment Used

7.4 **Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	6	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

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7.5 Field Strength of Fundamental Emissions and Mask Measurement

7.5.1 Standard Applicable

Limit:

Rules and specifiactions	CFR 47 P	art 15 section 15.	225(a)-(d)
Frequency of Emission (MHz)	Field Strength (µV/m)at 30m	Field Strength (dBµV/m)at 30m	Field Strength (dBµV/m)at 3m
1.705~13.110	30	29.5	69.5
13.110~13.410	106	40.5	80.5
13.410~13.553	334	50.5	90.47
13.553~13.567	15848	84	123.9
13.567~13.710	334	50.5	90.47
13.710~14.010	106	40.5	80.5
14.010~30.00	30	29.5	69.5

Note:

- 1. Emission level in dBuV/m=20 log (µV/m)
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. The lower limit shall apply at the transition frequencies.
- 4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.

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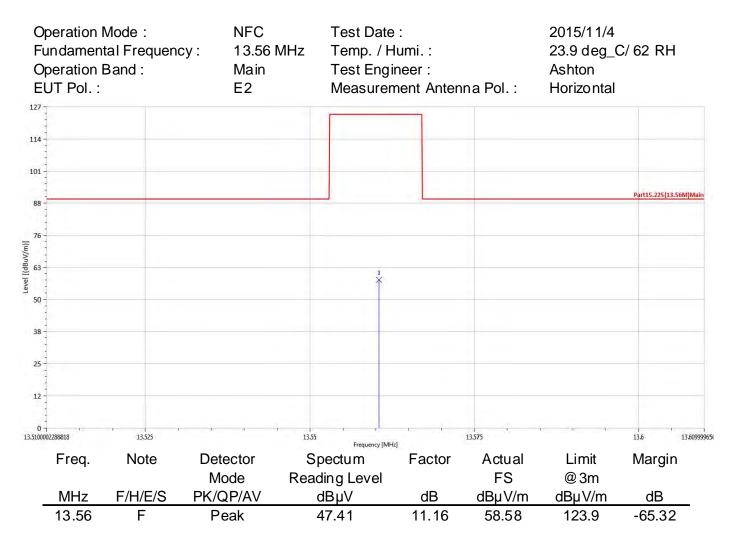


Operation I		NFC	AL 1-	Test Date			2015/11/4	
	tal Frequenc	•	VIHZ	Temp. / H			23.9 deg_(5/62 RH
Operation I	Band :	Main		Test Engi			Ashton	
EUT Pol. :		E2		Measuren	nent Anter	nna Pol. :	Vertical	
127				-				
.14						_		
14								
.01 -								
1								Part15.225(13.56M)Mai
88 -								Part15.225(15.50W)Wai
4								
76 -								
63 -								
				×				
50 -			_					
1								
38 -								
1								
25 -								
12 -								
0	13.525		13.55		r. î	13.575	i a i	13.6 13.6099
5100002288818				Frequency [MH				
Freq.	Note	Detector	•	ectum	Factor	Actual	Limit	Margin
		Mode		ling Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV		lBμV	dB	dBµV/m	dBµV/m	dB
13.56	F	Peak	2	7.49	11.16	58.66	123.9	-65.24

Field Other with of Free James at a Free size Management Danual

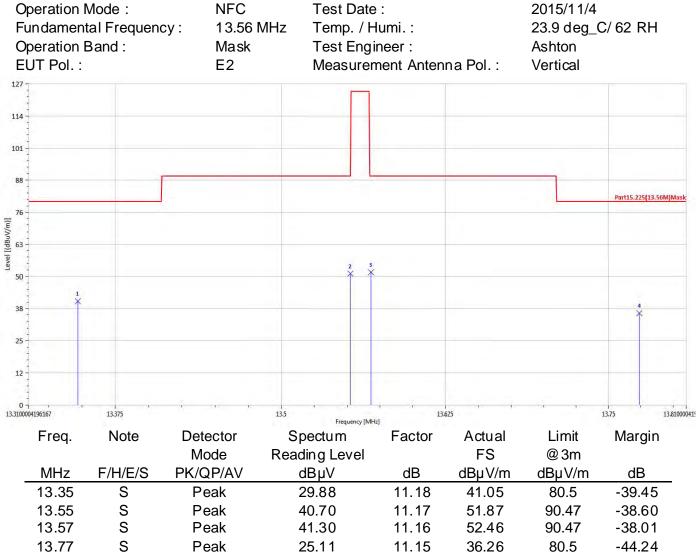
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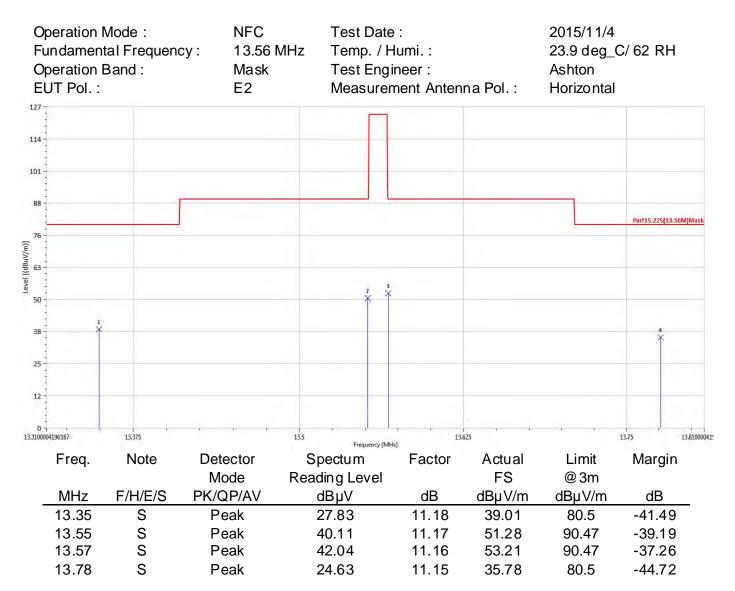


7.5.3 Mask Measurement Result



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7.6 **Radiated Emission Measurement**

7.6.1 Standard Applicable

The field strength of any emission which appear outside of 13.553~13.567MHz Band shall not exceed the general radiated emissions limits.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

Emission level in dBµV/m=20 log (µV/m)

- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. The lower limit shall apply at the transition frequencies.
- 4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.

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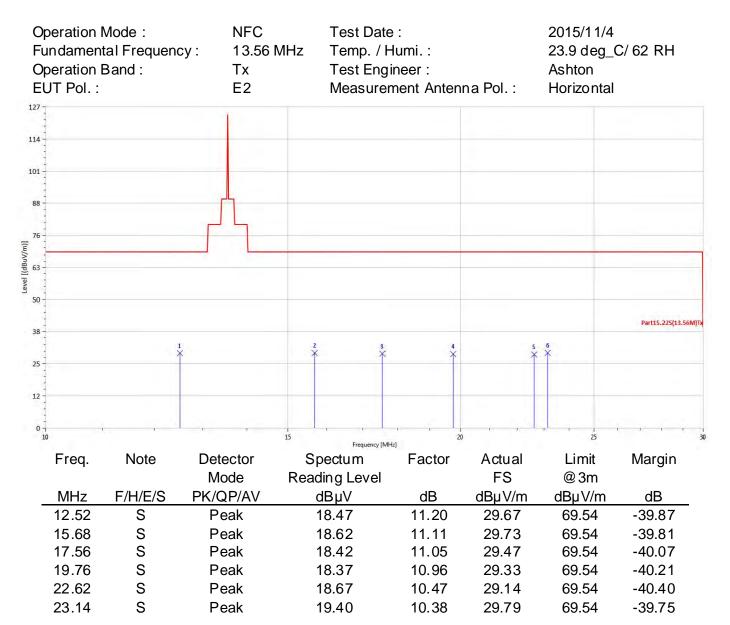
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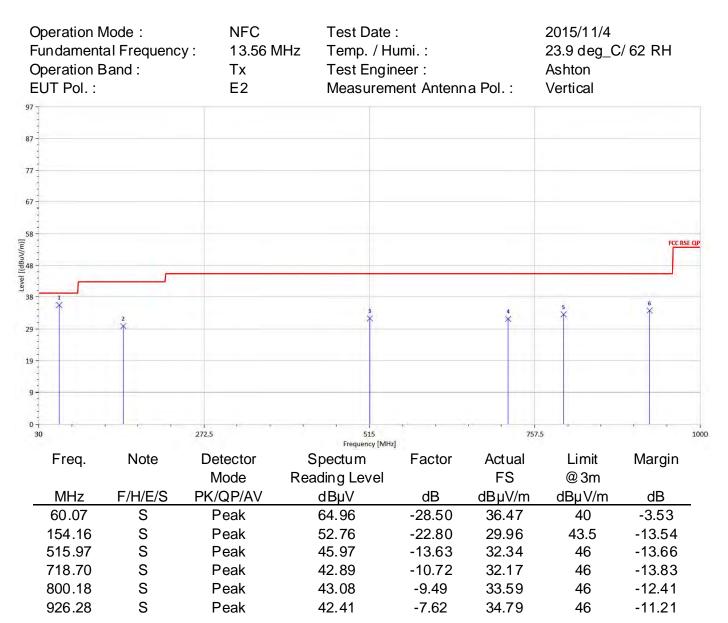
7.6.2 Radiated Emission Measurement Result

	Mode : tal Frequenc Band :	NFC cy : 13.56 Tx E2	Test Eng	Humi. :	na Pol. :	2015/11/4 23.9 deg_0 Ashton Vertical	C/ 62 RH
		1					
							Part15.225(13.56N
1				2 3	4	5	Part15.225(13.56M
×				2 3 X X	4 X	5	Part15.225(13.566
×				2 × ×	4 X	5	Part15.225(13.56A 6 X
*				2 3 × >	*	5	Part15.225(13.566
*		т. і	15 Frequency [l	, , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , ,	6
*	Note	Detector	Frequency []		Actual	Limit	Part15.225(13.56A
Freq.		Mode	Frequency [] Spectum Reading Level	MHzj 2 Factor	Actual	Limit @3m	Margin
Freq.	F/H/E/S	Mode PK/QP/AV	Frequency (I Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin
Freq. MHz 10.88	F/H/E/S S	Mode PK/QP/AV Peak	Frequency II Spectum Reading Level <u>dBµV</u> 18.95	Factor dB 11.24	Actual FS dBµV/m 30.20	25 Limit @ 3m dBμV/m 69.54	Margin dB -39.34
Freq. MHz 10.88 18.26	F/H/E/S S S	Mode PK/QP/AV Peak Peak	Frequency (I Spectum Reading Level dBµV 18.95 18.12	MHz] 2 Factor <u>dB</u> 11.24 11.01	Actual FS <u>dBµV/m</u> 30.20 29.13	25 Limit @ 3m dBμV/m 69.54 69.54	Margin dB -39.34 -40.41
Freq. MHz 10.88 18.26 19.98	F/H/E/S S S S	Mode PK/QP/AV Peak Peak Peak	Frequency (I Spectum Reading Level dBµV 18.95 18.12 17.92	بر Factor <u>dB</u> 11.24 11.01 10.95	Actual FS <u>dBµV/m</u> 30.20 29.13 28.87	25 Limit @ 3m dBµV/m 69.54 69.54 69.54	Margin dB -39.34 -40.41 -40.67
Freq. MHz 10.88 18.26	F/H/E/S S S	Mode PK/QP/AV Peak Peak	Frequency (I Spectum Reading Level dBµV 18.95 18.12	MHz] 2 Factor <u>dB</u> 11.24 11.01	Actual FS <u>dBµV/m</u> 30.20 29.13	25 Limit @ 3m dBμV/m 69.54 69.54	Margin dB -39.34 -40.41

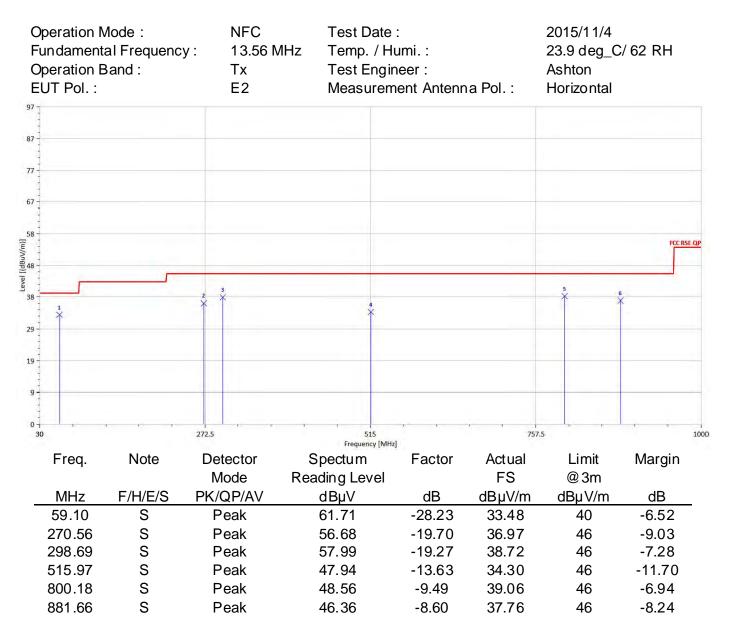














FREQUENCY STABILITY 8

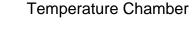
8.1 Standard Applicable

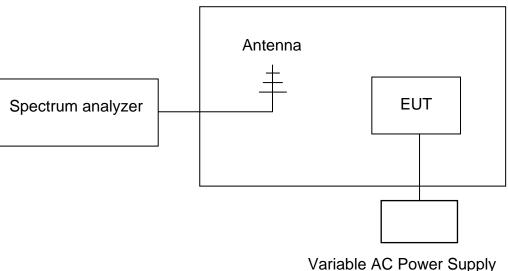
The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

8.2 Measurement Procedure

- 1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.
- 7. Set spectrum Center Frequency = fundamental frequency, RBW, VBW= 10 kHz, Span =100 kHz, Detector =Max hold, Mark peak.

8.3 Test SET-UP





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8.4 Measurement Equipment Used

Conducted Emission Test Site												
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
Spectrum Analyzer	Agilent	N9010A	MY53400256	Oct.13, 2015	Oct.12, 2016							
Coaxial Cable 80cm	WOKEN	00100A1F1A185C	RF09	Dec.19, 2014	Dec.18, 2015							
DC Block	Mini-Circuits	BLK-18-S+	RF32	Dec.19, 2014	Dec.18, 2015							
Loop Antenna	ETS-Lindgren	6502	00143303	Dec.09, 2014	Dec.08, 2015							

8.5 Measurement Results

Refer to attached data chart.

A. Temperature Variation

Power Supply Vdc	Environment Temperature ()	Frequency (MHz)	Delta (Hz)	Limit (KHz)		
3.7	-20	13.56066667	0.00	+/- 1.356		
3.7	-10	13.56066667	0.00	+/- 1.356		
3.7	0	13.56066667	0.00	+/- 1.356		
3.7	10	13.56066667	0.00	+/- 1.356		
3.7	20	13.56066667	0.00	+/- 1.356		
3.7	30	13.56066667	0.00	+/- 1.356		
3.7	40	13.56066667	0.00	+/- 1.356		
3.7	50	13.56066667	0.00	+/- 1.356		

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)		
Vdc	Temperature ()	(MHz)				
4.255	20	13.56066667	0.00	+/- 1.356		
3.7	20	13.56066667	0.00	+/- 1.356		
3.145	20	13.56066667	0.00	+/- 1.356		



20 dB OCCUPIED BANDWIDTH MEASUREMENT 9

9.1 **Standard Applicable:**

The 20 dB bandwidth shall be specified in operating frequency band.

9.2 Limit:

None

Test Set-up 9.3



Measurement Procedure 9.4

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.

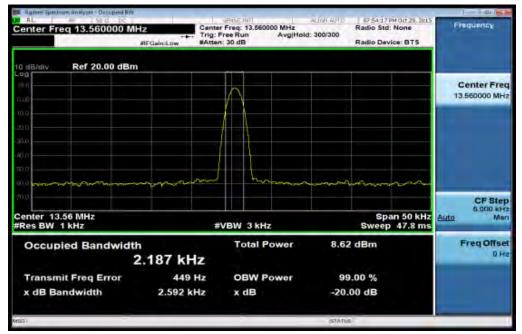
Measurement Equipment Used 9.5

Conducted Emission Test Site												
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
Spectrum Analyzer	Agilent	N9010A	MY53400256	Oct.13, 2015	Oct.12, 2016							
Coaxial Cable 80cm	WOKEN	00100A1F1A185C	RF09	Dec.19, 2014	Dec.18, 2015							
DC Block	Mini-Circuits	BLK-18-S+	RF32	Dec.19, 2014	Dec.18, 2015							
Loop Antenna	ETS-Lindgren	6502	00143303	Dec.09, 2014	Dec.08, 2015							

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9.6 20dB Bandwidth Measurement Result



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10 ANTENNA REQUIREMENT

10.1. Standard Applicable

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer.

For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power limits.

10.2. Antenna Connected Construction

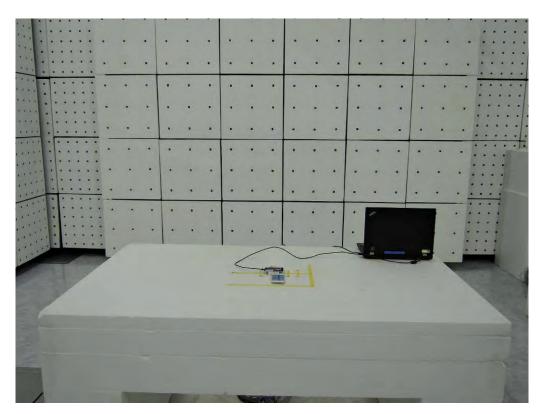
The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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PHOTOGRAPHS OF SET UP

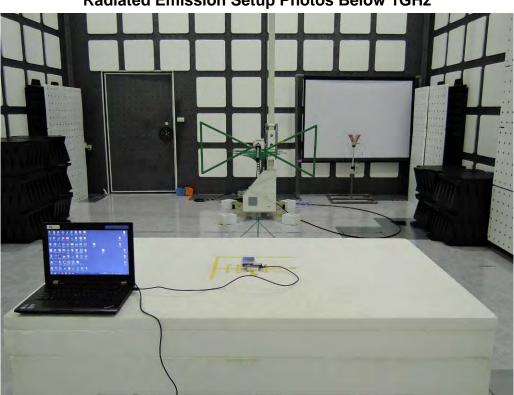
Radiated Emission Setup Photos Below 30MHz



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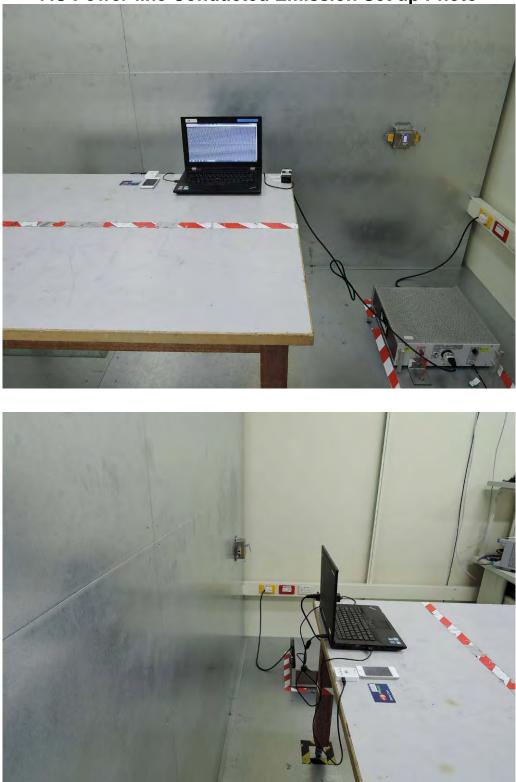




Radiated Emission Setup Photos Below 1GHz

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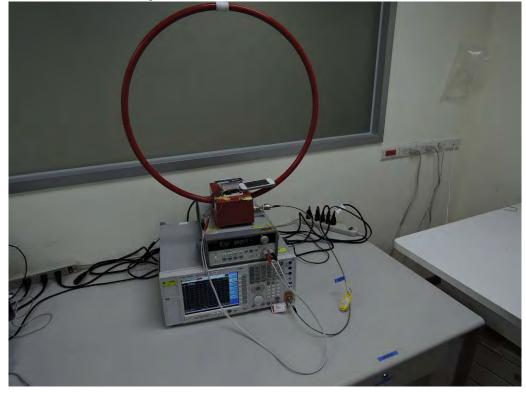


AC Power-line Conducted Emission Set up Photo



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Conducted Emission Setup Photos



PHOTOGRAPHS OF EUT Please refer to the attached file(EUT Photo)

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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