

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Personal Device Assistant
Brand Name: Datalogic
Model No.: DL-Axist
TYPE with WLAN/BT/NFC: 00ANM4HL1FT1A4
Model Difference N/A
FCC ID: U4GDLNFCR1
Report No.: E2/2015/B0094
Issue Date: Jan. 07, 2016
FCC Rule §15.225
Prepared for: Datalogic ADC S.r.l.
Via San Vitalino no. 13, Calderara di Reno -
40012 (Bologna) Italy
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Datalogic ADC S.r.l.
Via San Vitalino no. 13, Calderara di Reno - 40012 (Bologna)
Italy

Product Name: Personal Device Assistant

Brand Name: Datalogic

Model No.: DL-Axist

TYPE with WLAN/BT/NFC: 00ANM4HL1FT1A4

Model Difference: N/A

FCC ID: U4GDLNFCR1

File Number: E2/2015/B0094

Date of test: Nov. 24, 2015 ~ Jan. 07, 2015

Date of EUT Received: Nov. 24, 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 C63.10:2013 and 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:

Aken Huang

Date:

Jan. 07, 2016

Aken Huang / Engineer

Prepared By:

Tiffany Kao

Date:

Jan. 07, 2016

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Jan. 07, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/B0094	Rev.00	Initial creation of document	Jan. 07, 2016

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Contents

1	GENERAL INFORMATION	6
1.1	PRODUCT DESCRIPTION	6
1.2	TEST METHODOLOGY OF APPLIED STANDARDS	7
1.3	TEST FACILITY.....	7
1.4	SPECIAL ACCESSORIES	7
1.5	EQUIPMENT MODIFICATIONS	7
2	SYSTEM TEST CONFIGURATION	8
2.1	EUT CONFIGURATION.....	8
2.2	EUT EXERCISE.....	8
2.3	TEST PROCEDURE.....	8
2.4	MEASUREMENT RESULTS EXPLANATION EXAMPLE.....	8
2.5	CONFIGURATION OF TESTED SYSTEM	9
3	SUMMARY OF TEST RESULTS	10
4	DESCRIPTION OF TEST MODES.....	10
4.1	THE WORST TEST MODES AND CHANNEL DETAILS	10
5	MEASUREMENT UNCERTAINTY.....	11
6	CONDUCTED EMISSION TEST.....	12
6.1	STANDARD APPLICABLE:	12
6.2	MEASUREMENT EQUIPMENT USED:	12
6.3	EUT SETUP:.....	12
6.4	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
6.5	MEASUREMENT PROCEDURE:	13
6.6	MEASUREMENT RESULT:	13
7	RADIATED TEST ITEMS.....	18
7.1	MEASUREMENT PROCEDURE	18
7.2	TEST SET-UP.....	18
7.3	MEASUREMENT EQUIPMENT USED	19
7.4	FIELD STRENGTH CALCULATION.....	19
7.5	FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK MEASUREMENT	20
7.6	RADIATED EMISSION MEASUREMENT.....	25

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8	FREQUENCY STABILITY	30
8.1	STANDARD APPLICABLE	30
8.2	MEASUREMENT PROCEDURE	30
8.3	TEST SET-UP	30
8.4	MEASUREMENT EQUIPMENT USED	31
8.5	MEASUREMENT RESULTS.....	31
9	20 DB OCCUPIED BANDWIDTH MEASUREMENT	32
9.1	STANDARD APPLICABLE:	32
9.2	LIMIT:.....	32
9.3	TEST SET-UP.....	32
9.4	MEASUREMENT PROCEDURE	32
9.5	MEASUREMENT EQUIPMENT USED	32
9.6	20DB BANDWIDTH MEASUREMENT RESULT	33
10	ANTENNA REQUIREMENT	34
10.1.	STANDARD APPLICABLE	34
10.2.	ANTENNA CONNECTED CONSTRUCTION	34

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Personal Device Assistant	
Brand Name:	Datalogic	
Model No.:	DL-Axist	
TYPE with WLAN/BT/NFC:	00ANM4HL1FT1A4	
Model Difference:	N/A	
Product SW/HW version:	4.1.1 0.00.17.2015 1106 eng / DLX WLAN R1	
Radio SW/HW version:	N/A / N/A	
Power Supply:	3.8Vdc from rechargeable battery and 5.0Vdc from adapter	
	Battery:	1. Model No.: Standard BTDL1, Supplier: JMS 2. Model No.: Extended BTDL1, Supplier: JMS
	Adapter:	1. Model No.: SYS1460-1005, Supplier: Sunny 2. Model No.: SYS1561-1005, Supplier: Sunny

NFC:

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

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

ANSI C63.10:2013

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.

1.3 Test Facility

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

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

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 placed on a 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 placed on a 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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted Emission

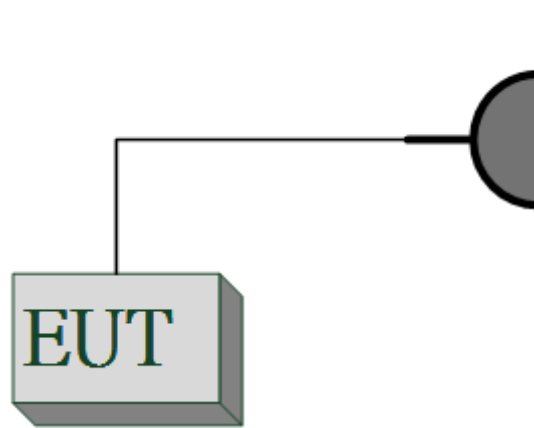


Fig. 2-3 AC Power Line Conducted Emission

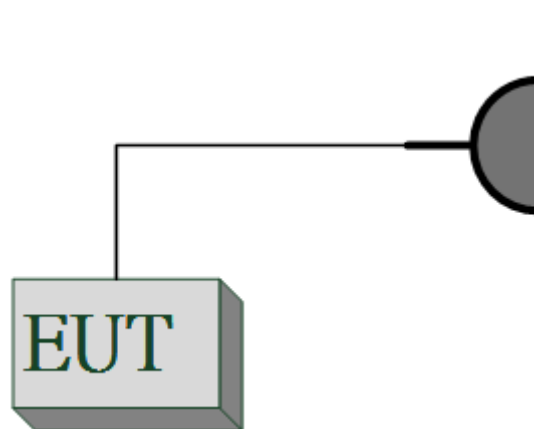


Table 2-1 Equipment Used in Tested System

Item	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

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§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

4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

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	ASK
20dB BANDWIDTH			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for NFC Transmitter for channel the worst case E1 position was reported.

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5 MEASUREMENT UNCERTAINTY

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:

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

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	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.

Frequency range MHz	Limits dB(uV)	
	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:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	01/06/2015	01/07/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
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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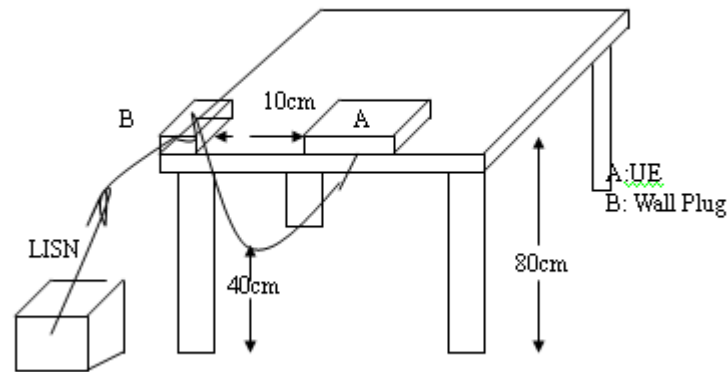
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6.4 Test SET-UP (Block Diagram of Configuration)



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.

6.6 Measurement Result:

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

Operation Mode:	Operation mode	Test Date:	Dec. 15, 2015
Temperature:	23.8		

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Dec. 15, 2015
Temperature:	23.8		

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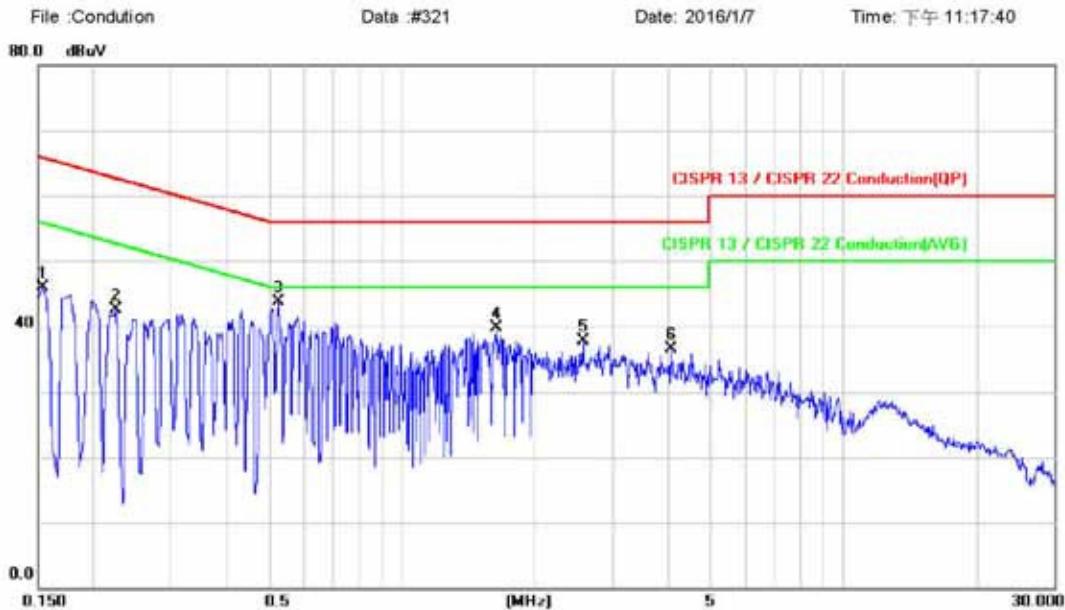
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Site : Conduction Room Phase: **N** Temperature: 22 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 Mode:
 Note: Adapter:SYS1561-1005

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	45.79	0.14	45.93	65.78	-19.85	peak	
2		0.2260	42.34	0.14	42.48	62.60	-20.12	peak	
3	*	0.5260	43.33	0.28	43.61	56.00	-12.39	peak	
4		1.6380	39.18	0.57	39.75	56.00	-16.25	peak	
5		2.5740	37.12	0.64	37.76	56.00	-18.24	peak	
6		4.0740	35.83	0.66	36.49	56.00	-19.51	peak	

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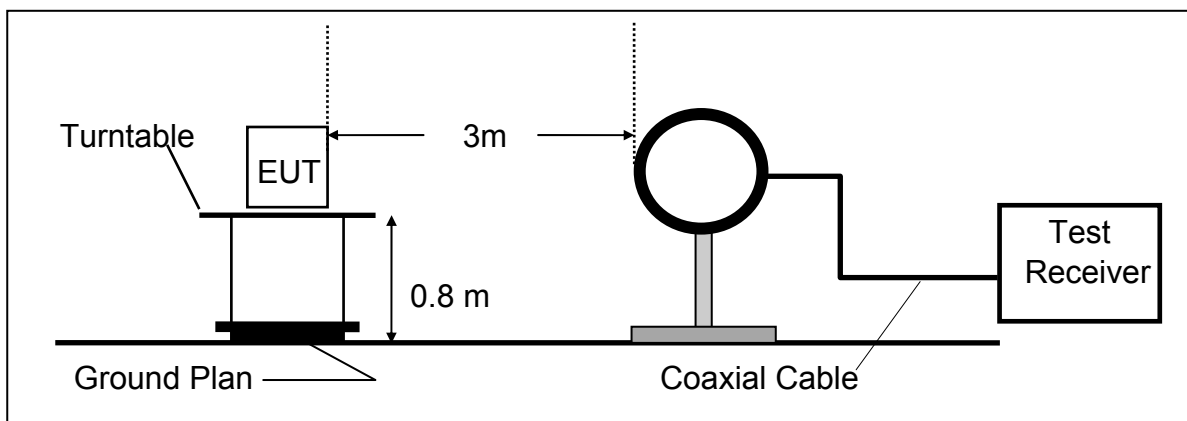
7 RADIATED TEST ITEMS

7.1 Measurement Procedure

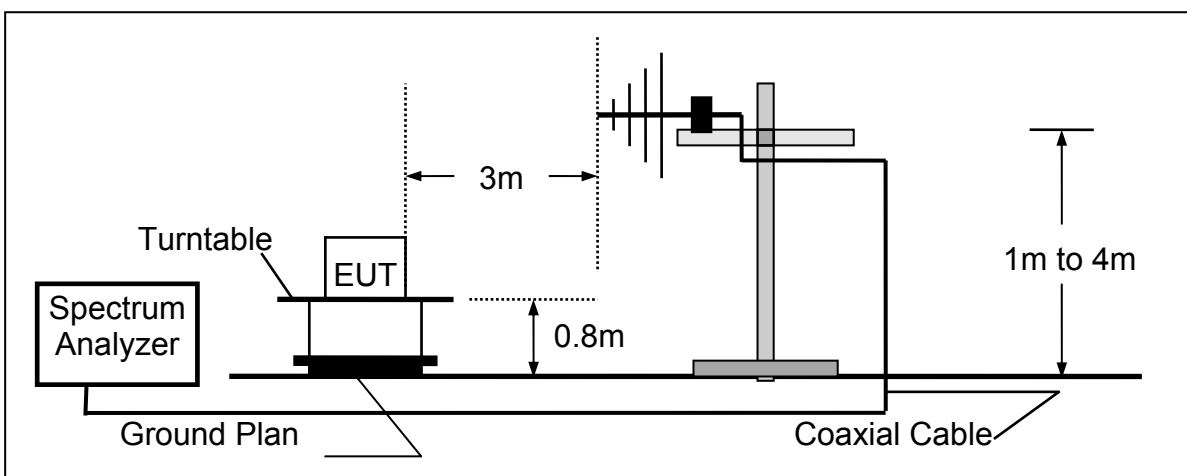
1. Configure the EUT according to ANSI C63.4.
2. The EUT was placed on a turn table which is 0.8m above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out 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



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



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7.3 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2015	12/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2015	12/04/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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 FS = Field Strength	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 $20 \cdot \log(\mu\text{V}/\text{m})$

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

Factor(dB) = Antenna Factor(dBμV/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 specifications	CFR 47 Part 15 section 15.225(a)-(d)		
	Frequency of Emission (MHz)	Field Strength ($\mu\text{V}/\text{m}$) at 30m	Field Strength ($\text{dB}\mu\text{V}/\text{m}$) at 30m
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 $\text{dB}\mu\text{V}/\text{m} = 20 \log(\mu\text{V}/\text{m})$
2. Distance extrapolation factor = $40 \log(\text{required distance}/\text{test distance})$ (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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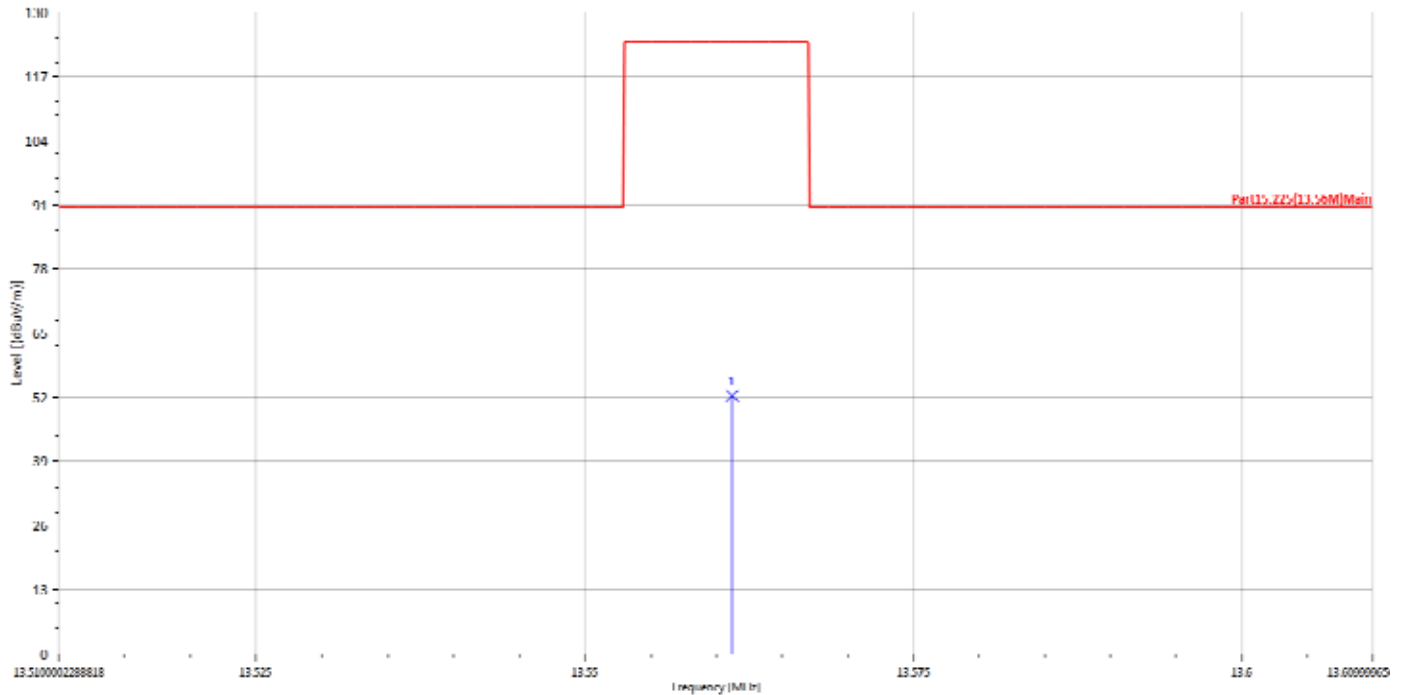
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7.5.2 Field Strength of Fundamental Emission Measurement Result

Operation Mode : NFC Test Date : 2016/1/7
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Main_M Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
13.56	F	Peak	41.19	11.16	52.35	123.9	-71.55

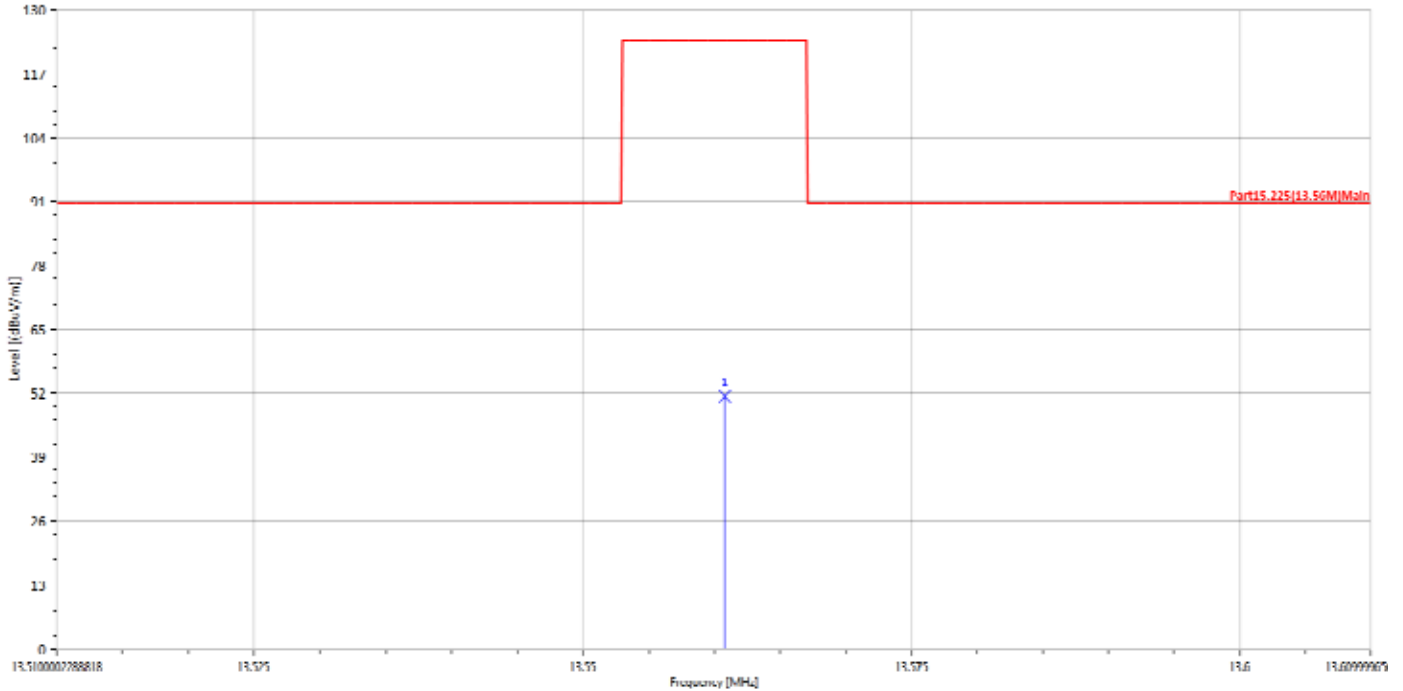
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Operation Mode : NFC Test Date : 2016/1/7
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Main_M Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.56	F	Peak	40.21	11.16	51.38	123.9	-72.52

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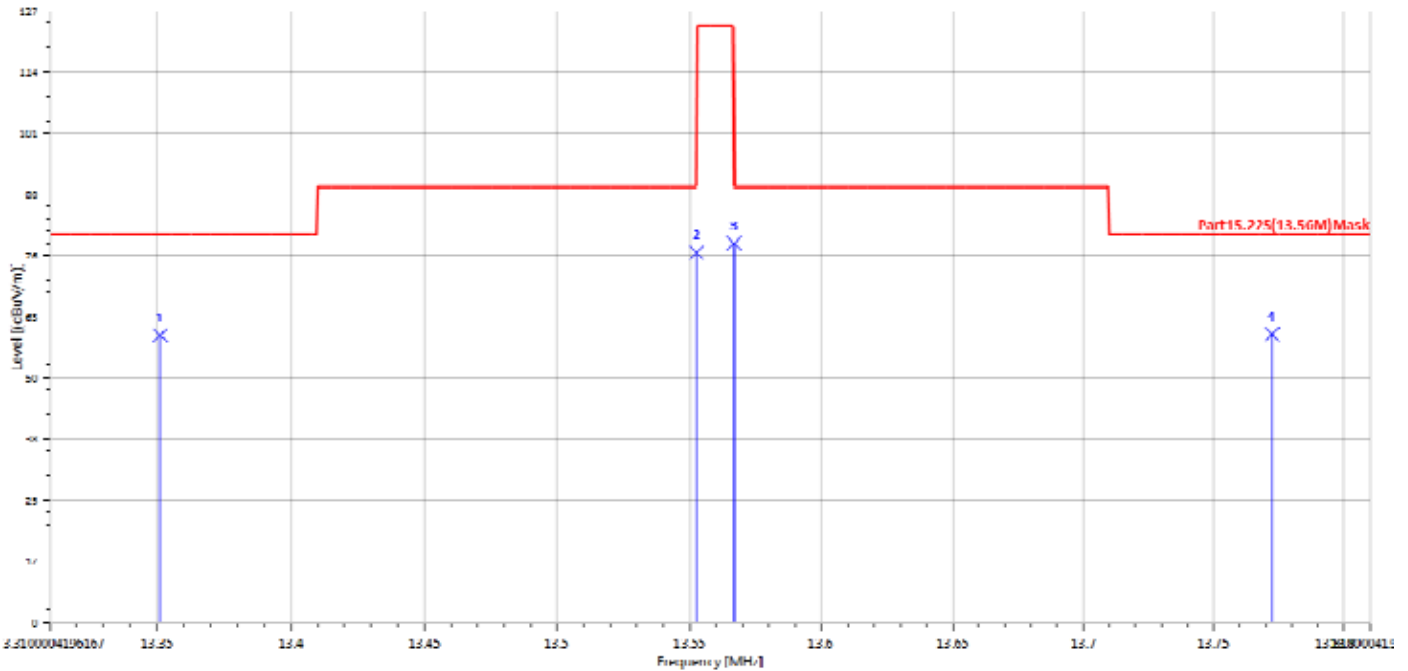
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7.5.3 Mask Measurement Result

Operation Mode :	NFC	Test Date :	2015/12/28
Fundamental Frequency :	13.56 MHz	Temp. / Humi. :	24.1deg_C/48RH
Operation Band :	Mask	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
13.35	S	Peak	23.48	11.18	34.65	80.5	-45.85
13.55	S	Peak	34.73	11.17	45.90	90.47	-44.57
13.57	S	Peak	37.21	11.16	48.37	90.47	-42.10
13.78	S	Peak	24.15	11.15	35.30	80.5	-45.20

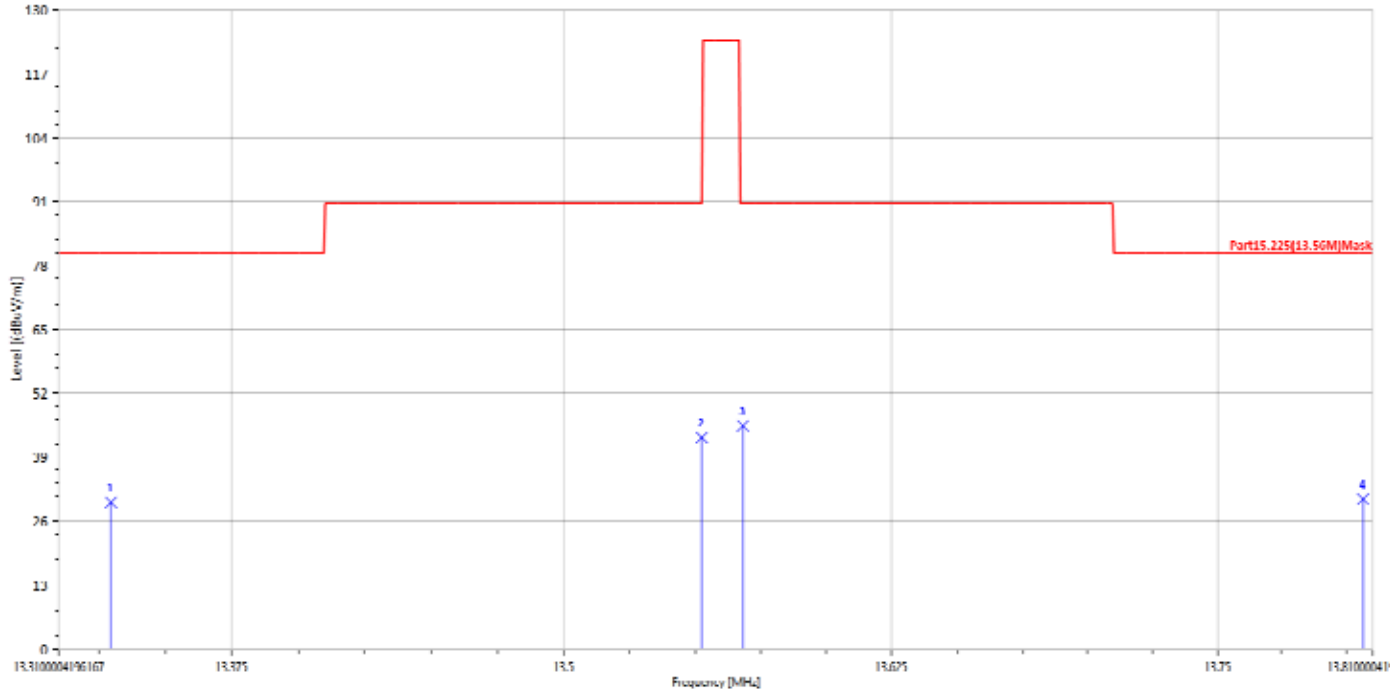
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Operation Mode : NFC Test Date : 2015/12/28
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Mask Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13.33	S	Peak	18.73	11.17	29.90	80.5	-50.60
13.55	S	Peak	31.84	11.17	43.01	90.47	-47.46
13.57	S	Peak	34.28	11.16	45.44	90.47	-45.03
13.81	S	Peak	19.40	11.15	30.55	80.5	-49.95

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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 ($\mu\text{V/m}$)	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:

1. Emission level in $\text{dB}\mu\text{V/m}=20 \log (\mu\text{V/m})$
2. Distance extrapolation factor = $40 \log (\text{required distance/ test distance})$ (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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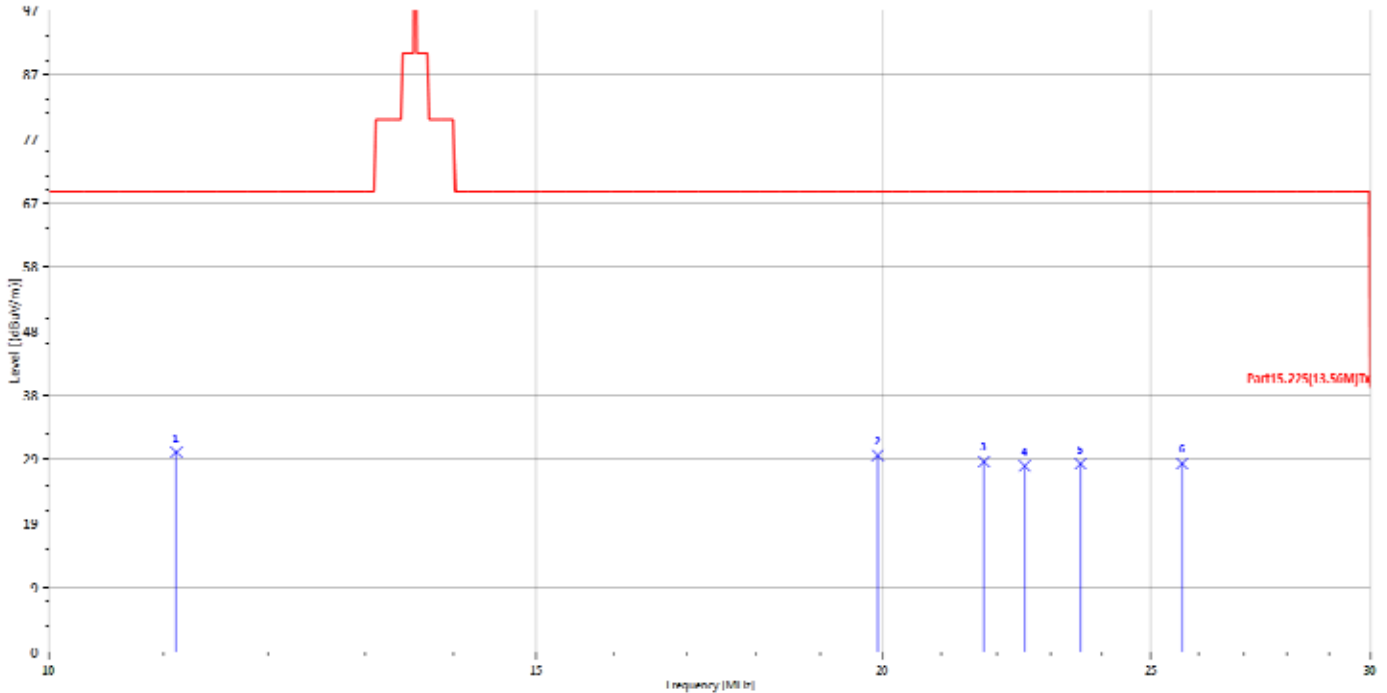
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7.6.2 Radiated Emission Measurement Result

Operation Mode : NFC Test Date : 2015/12/28
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11.12	S	Peak	18.90	11.24	30.15	69.54	-39.39
19.92	S	Peak	18.71	10.95	29.67	69.54	-39.87
21.76	S	Peak	18.07	10.63	28.70	69.54	-40.84
22.50	S	Peak	17.54	10.50	28.04	69.54	-41.50
23.58	S	Peak	18.07	10.30	28.37	69.54	-41.17
25.66	S	Peak	18.47	9.92	28.40	69.54	-41.14

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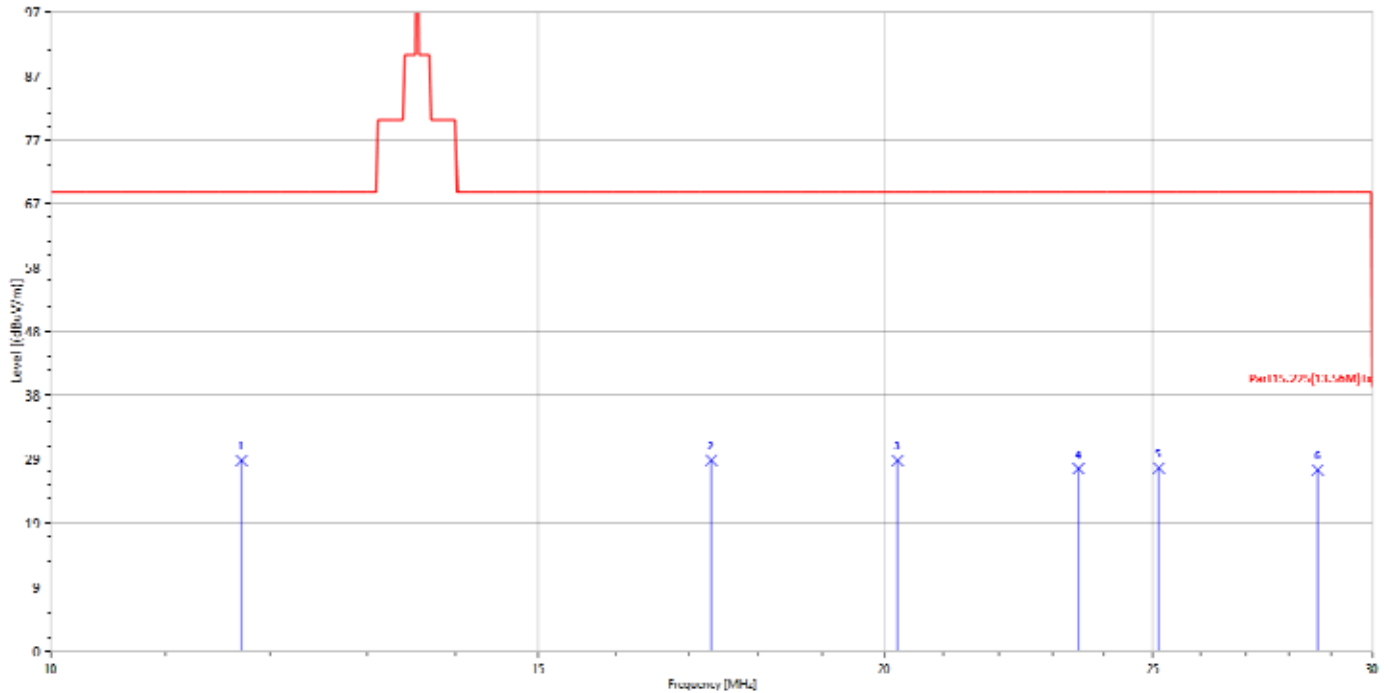
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Operation Mode : NFC Test Date : 2015/12/28
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11.72	S	Peak	17.65	11.22	28.87	69.54	-40.67
17.32	S	Peak	17.86	11.06	28.92	69.54	-40.62
20.22	S	Peak	17.97	10.91	28.88	69.54	-40.66
23.50	S	Peak	17.32	10.32	27.64	69.54	-41.90
25.12	S	Peak	17.70	10.03	27.73	69.54	-41.81
28.66	S	Peak	18.07	9.35	27.43	69.54	-42.11

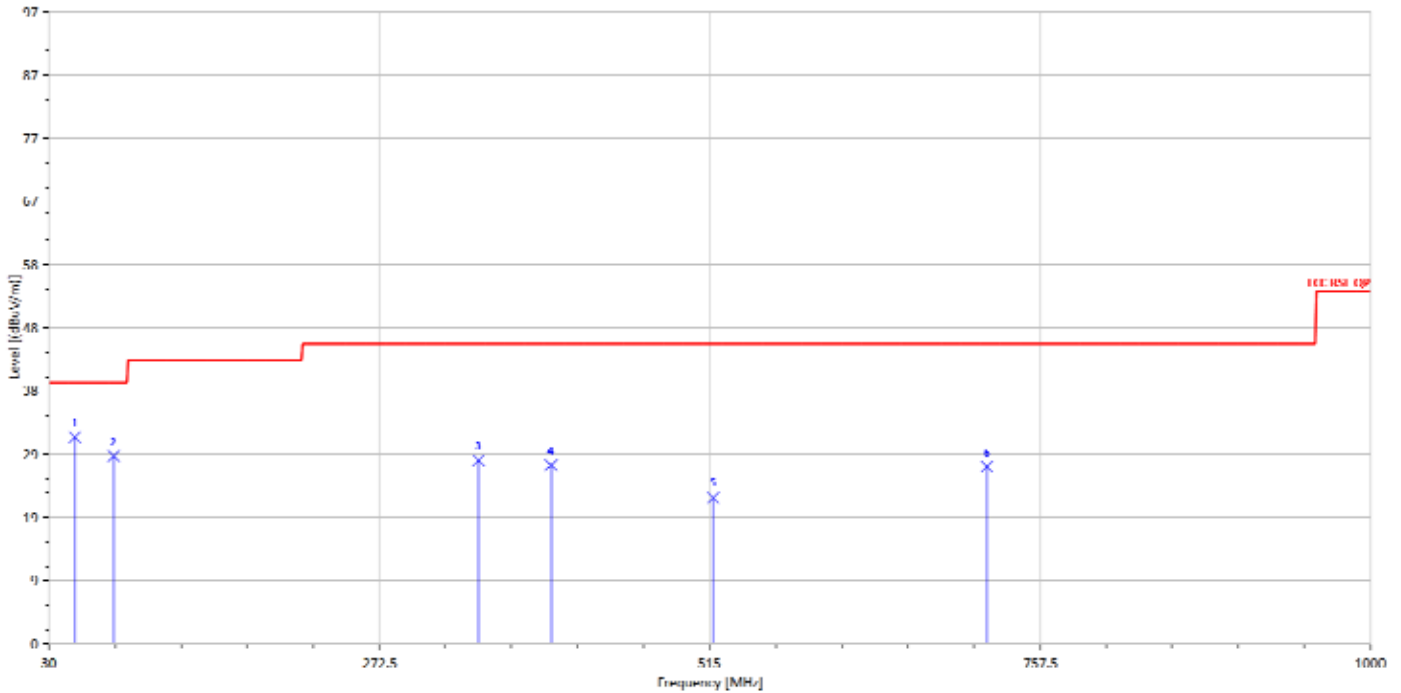
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 Operation Band : Tx Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
49.40	S	Peak	56.83	-25.16	31.67	40	-8.33
77.53	S	Peak	55.82	-27.08	28.74	40	-11.26
345.25	S	Peak	45.59	-17.54	28.05	46	-17.95
398.60	S	Peak	43.25	-15.93	27.32	46	-18.68
517.91	S	Peak	36.01	-13.60	22.41	46	-23.59
718.70	S	Peak	37.82	-10.72	27.10	46	-18.90

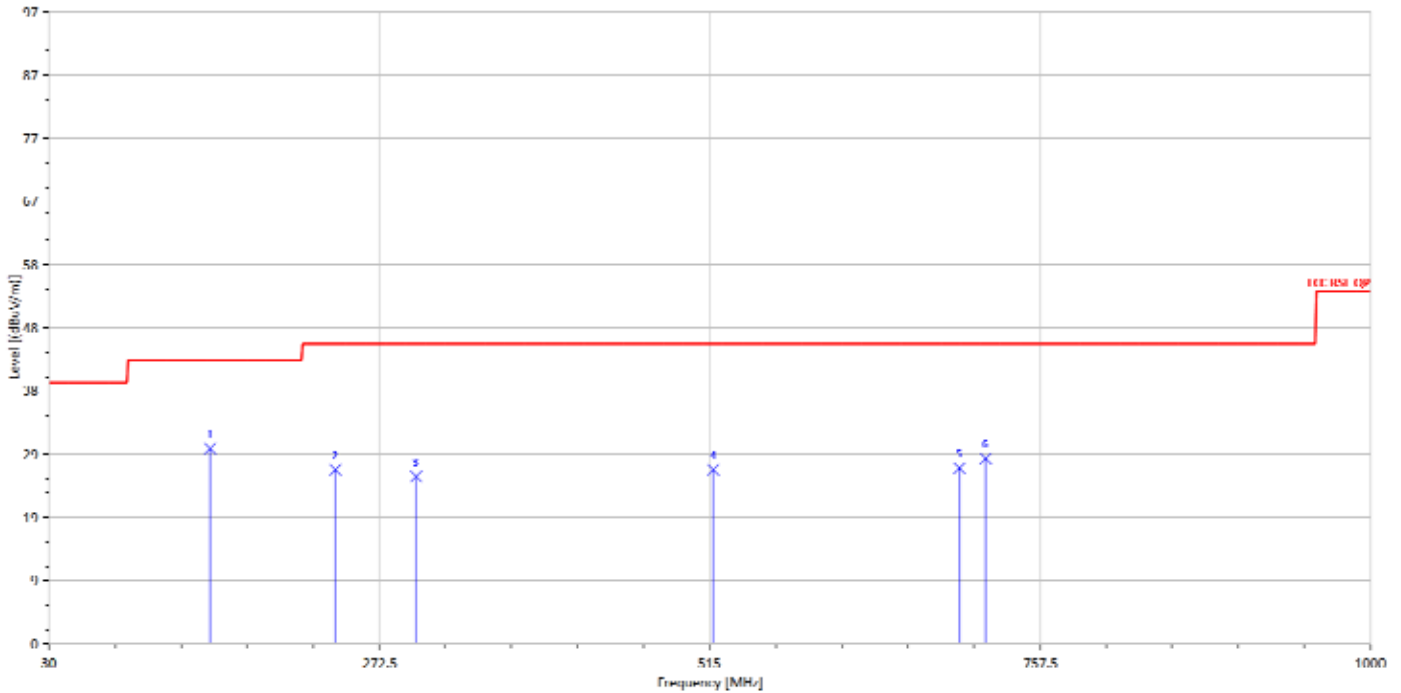
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Operation Mode : NFC Test Date : 2015/12/28
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
148.34	S	Peak	52.42	-22.52	29.90	43.5	-13.60
240.49	S	Peak	47.65	-21.03	26.62	46	-19.38
299.66	S	Peak	44.83	-19.28	25.55	46	-20.45
517.91	S	Peak	40.22	-13.60	26.62	46	-19.38
698.33	S	Peak	38.01	-11.14	26.87	46	-19.13
717.73	S	Peak	39.12	-10.77	28.35	46	-17.65

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8 FREQUENCY STABILITY

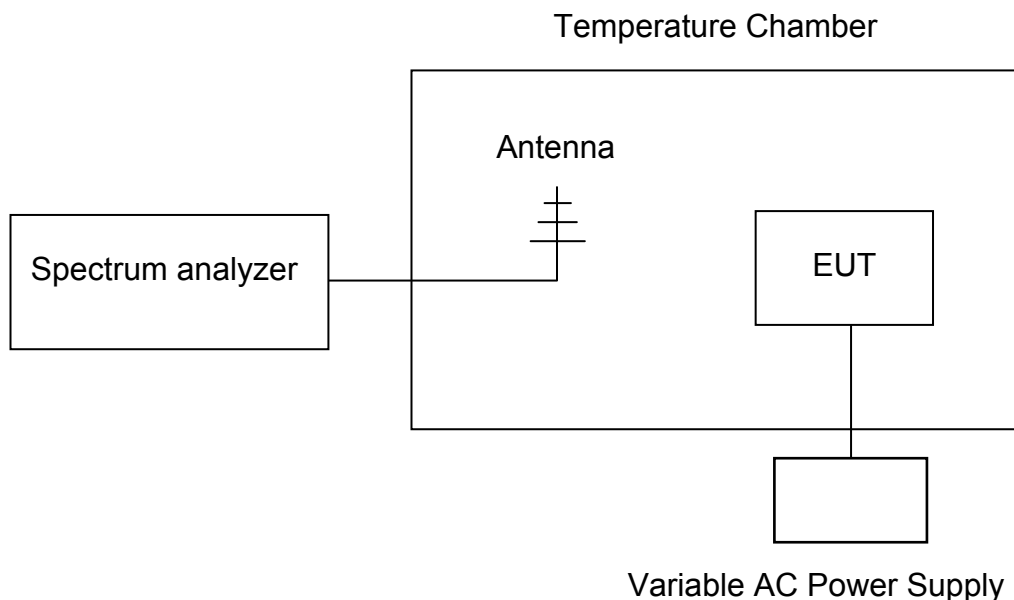
8.1 Standard Applicable

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	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2015	12/08/2016

8.5 Measurement Results

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature	(MHz)		
3.8	-20	13.561670	-170.00	+/- 1.356
3.8	-10	13.561670	-170.00	+/- 1.356
3.8	0	13.561500	0.00	+/- 1.356
3.8	10	13.561500	0.00	+/- 1.356
3.8	20	13.561500	0.00	+/- 1.356
3.8	30	13.561500	0.00	+/- 1.356
3.8	40	13.561500	0.00	+/- 1.356
3.8	50	13.561500	0.00	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature	(MHz)		
4.35	20	13.561330	170.00	+/- 1.356
3.8	20	13.561500	0.00	+/- 1.356
3.5	20	13.561330	170.00	+/- 1.356

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9 20 dB OCCUPIED BANDWIDTH MEASUREMENT

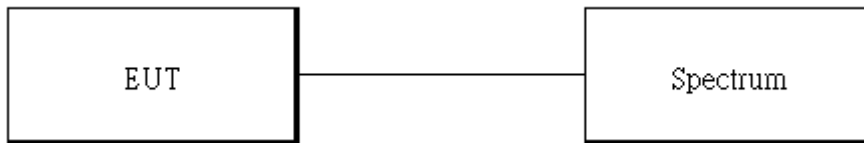
9.1 Standard Applicable:

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

9.2 Limit:

None

9.3 Test Set-up



9.4 Measurement Procedure

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.

9.5 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/11/2015	12/10/2016
DC Block	PASTERNAK	PE8210	RF29	12/11/2015	12/10/2016
Attenuator	WOKEN	218FS-10	RF23	12/11/2015	12/10/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2015	12/08/2016

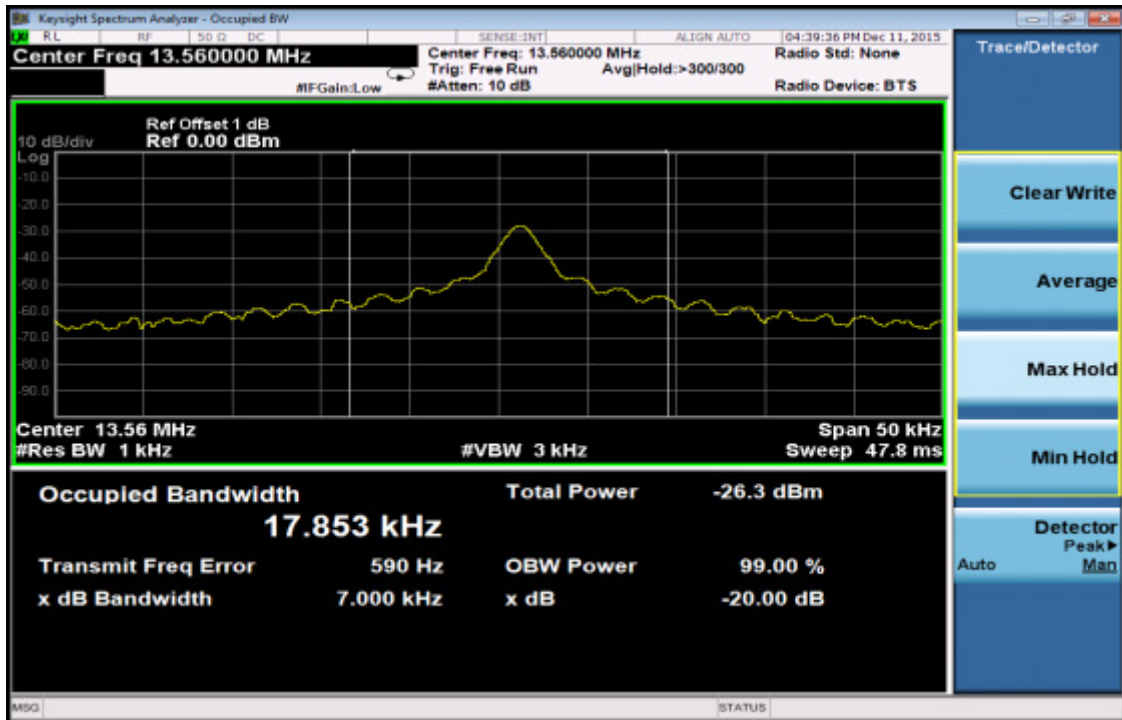
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9.6 20dB Bandwidth Measurement Result



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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.

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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SGS Taiwan Ltd. No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路134號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group