

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Tablet

Brand Name: Aures Technologies

Model No.: Swing Cherry Trial

Model Difference: N/A

FCC ID: XHM-PB55D41

Report No.: E2/2018/80088

Issue Date: Sep. 19, 2018

FCC Rule Part: §15.209

Prepared for Aures Technologies
24 bis rue Leonard de Vinci, 91090 Lisses |
France

Prepared by SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Aures Technologies
24 bis rue Leonard de Vinci, 91090 Lisses | France

Product Name: Tablet

Brand Name: Aures Technologies

Model No.: Swing Cherry Trial

Model Difference: N/A

FCC ID: XHM-PB55D41

File Number: E2/2018/80088

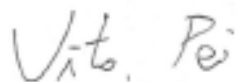
Date of test: Sep.18, 2018

Date of EUT Received: Aug. 27, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. 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:**Date:**

Sep. 19, 2018

Vito Pei / Sr. Engineer**Prepared By:****Date:**

Sep. 19, 2018

Elle Chang / Clerk**Approved By****Date:**

Sep. 19, 2018

Blue Yang / Supervisor

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Revision History

Report Number	Revision	Description	Issue Date
E2/2018/80088	Rev.00	Initial creation of document	Sep. 19, 2018

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1. GENERAL INFORMATION

1.1. Product Description

Product Name:	Tablet	
Brand Name:	Aures Technologies	
Model No.:	Swing Cherry Trial	
Model Difference:	N/A	
Hardware Version:	V3.0	
Software Version	V1.0	
Power Supply:	3.7V / 3.8V from Rechargeable Li-ion Battery	
	Battery:	1. Model No.: BA110000, Supplier: N/A 2. Model No.: BA840000, Supplier: Getac

Transmitter:

Operating Frequency	125kHz
Transmit Power	< 105dBuV/m at 3m.
Number of Channels	1
Operating Mode	Point-to-Point

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1.2. Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.209

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63.10:2013.

1.3. 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: 735305

1.4. Special Accessories

There are no special accessories 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 (Not apply in the report)

The EUT is placed on a turn table which is 0.8 m above ground plane. 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 §15.107. 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 plane. 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. Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

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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.		

(2) Radiated Emission

- (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:
- (b) In the emission table above, the tighter limit applies at the band edges.
- (c) The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission. For intentional radiators which operate under the provisions of other Sections within this Part and which are required to reduce their unwanted emissions to the limits specified in this table, the limits in this table are based on the frequency of the unwanted emission and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
0.009-0.490	2400/F(KHz)	300	
0.490-1.705	24000/F(KHz)	30	
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Limit Table:

Frequency kHz	Distance m	Limit at 300m $\text{dB}\mu\text{V/m}$	Limit at 30m $\text{dB}\mu\text{V/m}$	Distance Factor dB	Limit $\text{dB}\mu\text{V/m}$ at
125	300	25.67	---	80	105.67
250	300	19.65	---	80	99.65
375	300	16.12	---	80	96.12
500	30	---	33.62	40	73.62
625	30	---	31.69	40	71.69
750	30	---	30.10	40	70.10
875	30	---	28.76	40	68.76
1000	30	---	27.60	40	67.60
1125	30	---	26.58	40	66.58
1250	30	---	25.67	40	65.67

Limit Calculation and transfer to 1m test distance:

If the frequency between 9 – 490kHz,
Limit = $20\log(2400/f(\text{KHz})) + 40\log(300/1)$

If the frequency between 490kHz – 1.705MHz
Limit = $20\log(24000/f(\text{KHz})) + 40\log(30/1)$

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2.5. Configuration of Tested System

Fig. 2-1 Emission test set up configuration

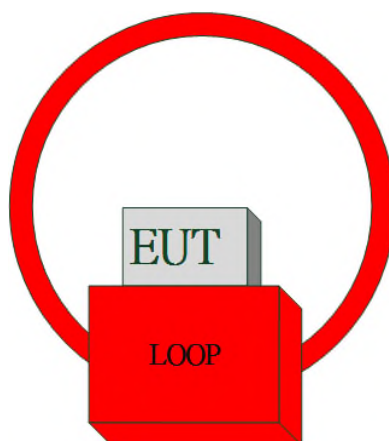
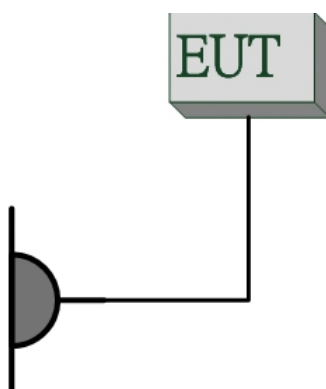


Fig. 2-2 Conduction test set up configuration



Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3634A	MY53180030	N/A	Unshielded

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3. Summary of Test Results

FCC Rules	Description of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant

4. Description of test modes

The EUT has been tested under continuous operating condition. The Frequency 125kHz was chosen for testing.

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
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
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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 Emissions Test

6.1. Standard Applicable:

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					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
LISN	TESEQ	NNB 51	36076	2018/02/14	2019/02/13
EMI Test Receiver	R&S	ESCI	101300	2017/11/02	2018/11/01

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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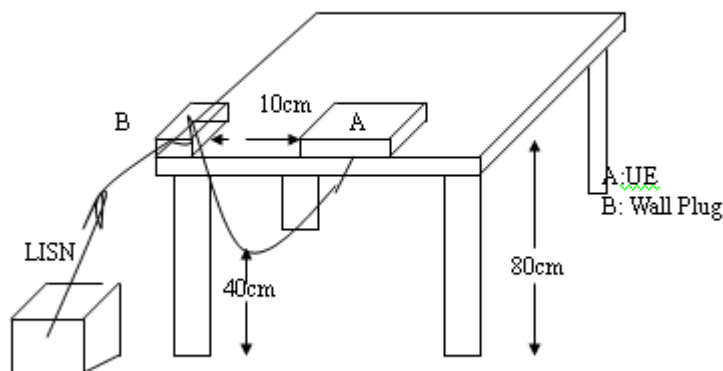
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6.4. Test SET-UP (Block Diagram of Configuration)



6.5. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

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 by:	Aken
-----------------	----------------	----------	------

Site : Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode:
 Note:

Phase: **L1**
 Power: AC 120V/60Hz

Temperature: 23 °C
 Humidity: 64 %

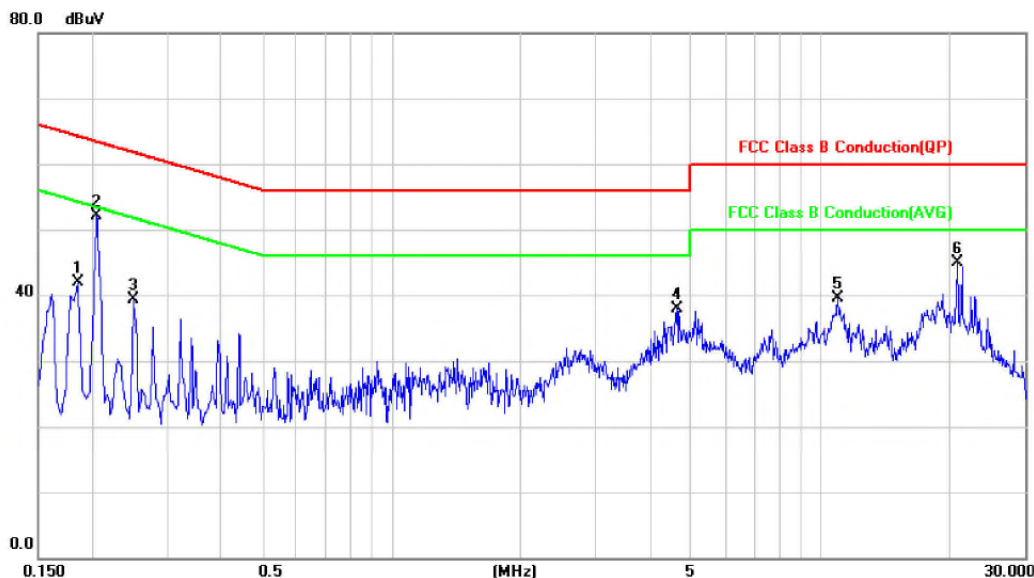
Conducted Emission

File :Conduction

Data :#1075

Date: 2018/9/18

Time: 上午 08:57:01



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1860	22.18	19.71	41.89	64.21	-22.32	peak	
2	*	0.2060	32.37	19.75	52.12	63.37	-11.25	peak	
3		0.2500	19.55	19.82	39.37	61.76	-22.39	peak	
4		4.6300	17.75	20.06	37.81	56.00	-18.19	peak	
5		10.9940	19.53	19.96	39.49	60.00	-20.51	peak	
6		20.8820	24.83	20.04	44.87	60.00	-15.13	peak	

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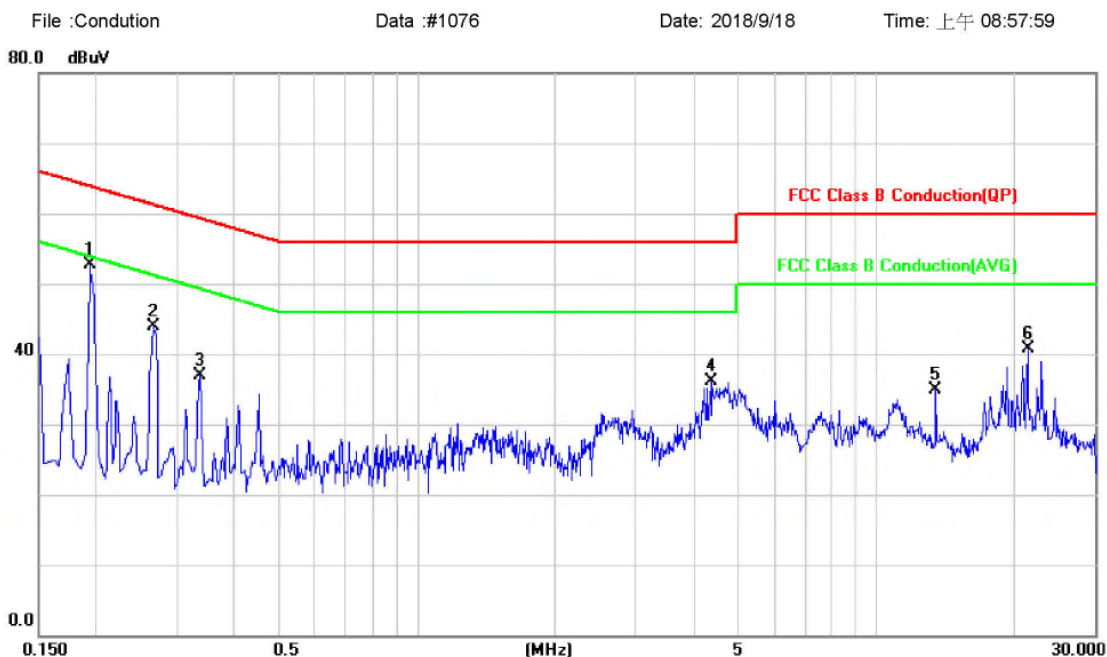
7.

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode:
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 23 °C
Humidity: 64 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1940	32.95	19.71	52.66	63.86	-11.20	peak	
2		0.2660	24.05	19.83	43.88	61.24	-17.36	peak	
3		0.3380	16.96	19.95	36.91	59.25	-22.34	peak	
4		4.3900	16.04	20.09	36.13	56.00	-19.87	peak	
5		13.5380	14.92	19.98	34.90	60.00	-25.10	peak	
6		21.4180	20.68	20.09	40.77	60.00	-19.23	peak	

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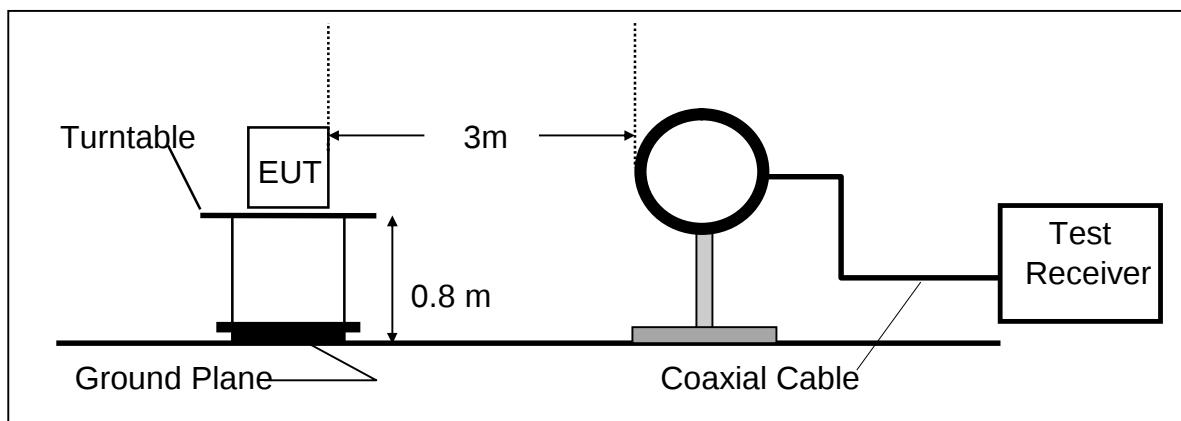
8. Radiated Emission Test

8.1. Measurement Procedure

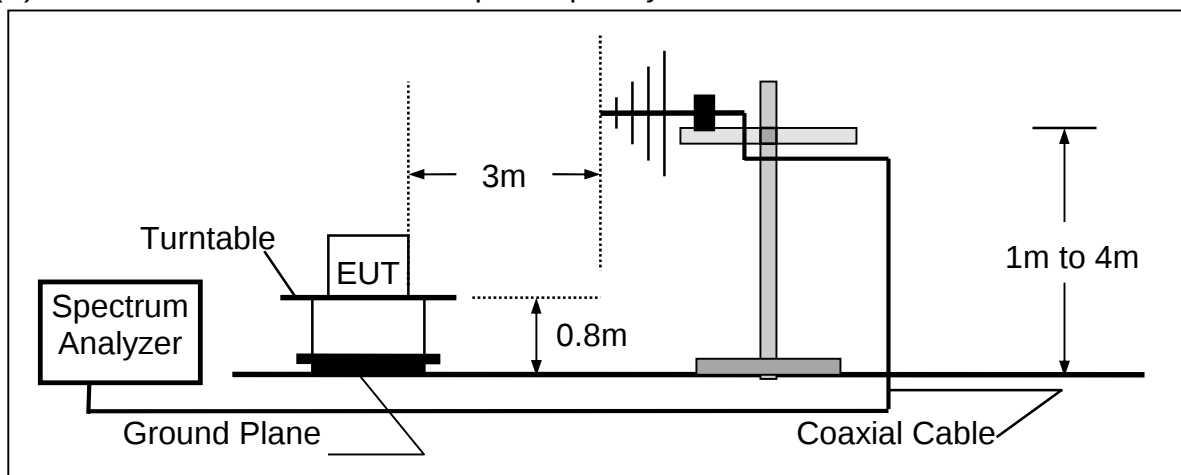
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

8.2. Test SET-UP (Block Diagram of Configuration)

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



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



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8.3. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	2017/10/27	2018/10/26
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber D	N/A	2018/07/06	2019/07/05
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Pre-Amplifier	EMC Instruments	EMC9135	980234	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25

8.4. 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	

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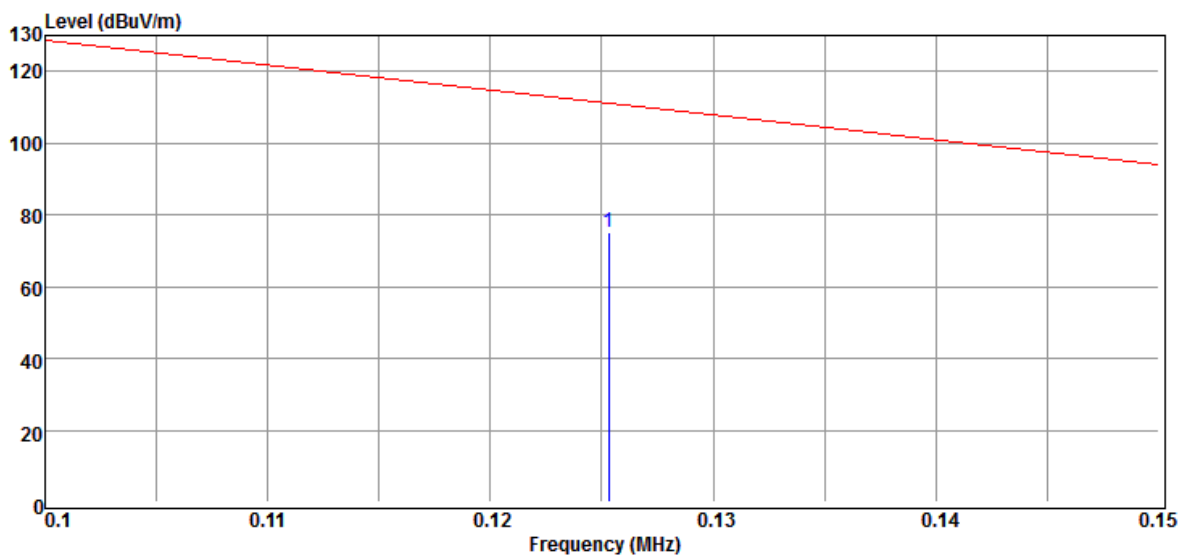
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8.5. Measurement Result

Operation Mode	:WPC	Test Date	:2018-09-17
Test Mode	:Main CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:125 KHz	Engineer	:Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
0.13	Peak	63.34	11.89	75.23	120.11	-44.88

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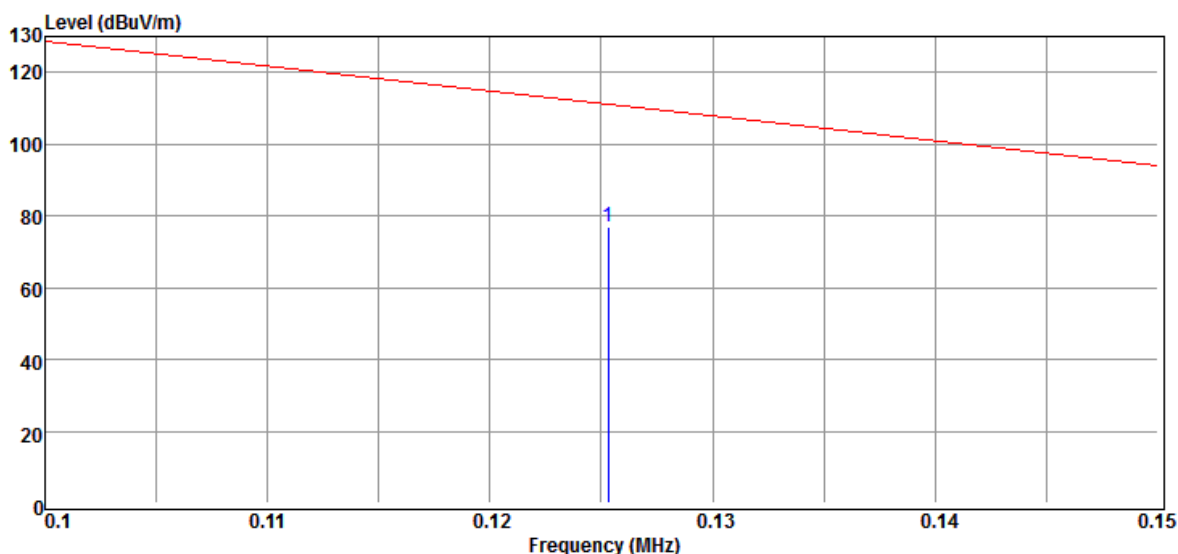
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Operation Mode	:WPC	Test Date	:2018-09-17
Test Mode	:Main CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:125 KHz	Engineer	:Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
0.13	Peak	64.87	11.89	76.76	120.11	-43.35

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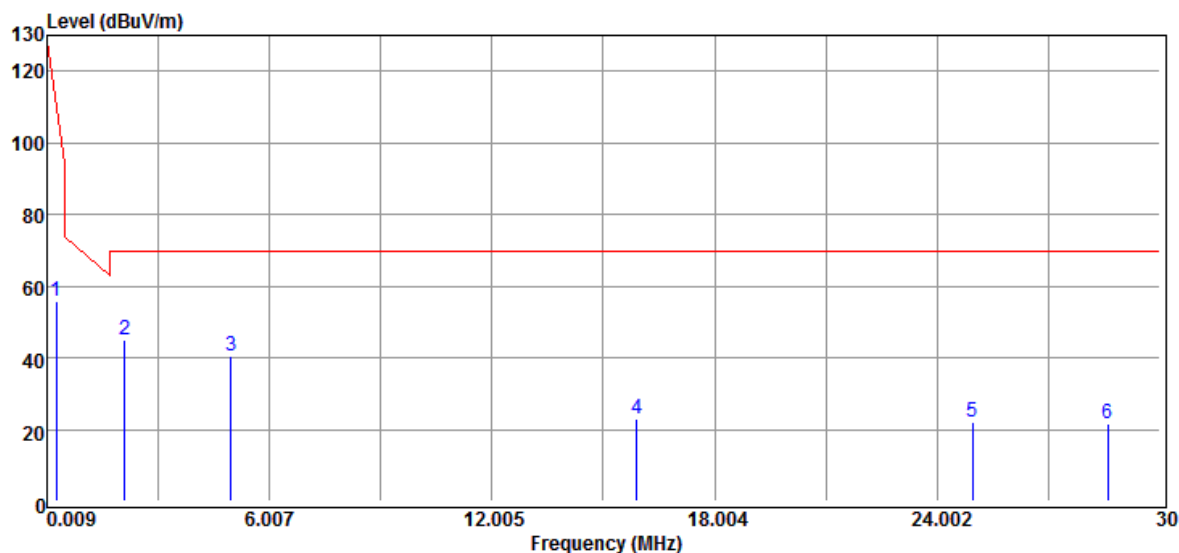
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(10MHz~30MHz)

Operation Mode	:WPC	Test Date	:2018-09-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:125 KHz	Engineer	:Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.25	Peak	43.49	12.28	55.77	111.11	-55.34
2.11	Peak	33.27	11.55	44.82	69.54	-24.72
4.96	Peak	29.43	11.14	40.57	69.54	-28.97
15.90	Peak	11.63	11.44	23.07	69.54	-46.47
24.96	Peak	12.13	10.11	22.24	69.54	-47.30
28.59	Peak	12.30	9.39	21.69	69.54	-47.85

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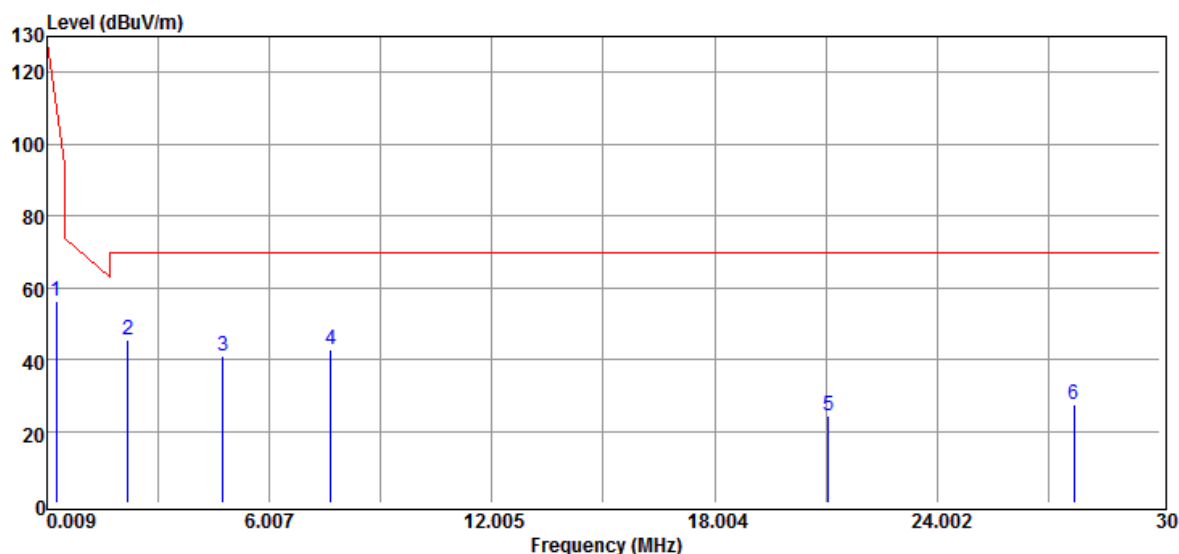
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Operation Mode	:WPC	Test Date	:2018-09-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:125 KHz	Engineer	:Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
0.25	Peak	43.85	12.28	56.13	111.11	-54.98
2.20	Peak	34.05	11.49	45.54	69.54	-24.00
4.75	Peak	30.01	11.13	41.14	69.54	-28.40
7.66	Peak	31.30	11.54	42.84	69.54	-26.70
21.06	Peak	13.27	11.00	24.27	69.54	-45.27
27.69	Peak	18.09	9.56	27.65	69.54	-41.89

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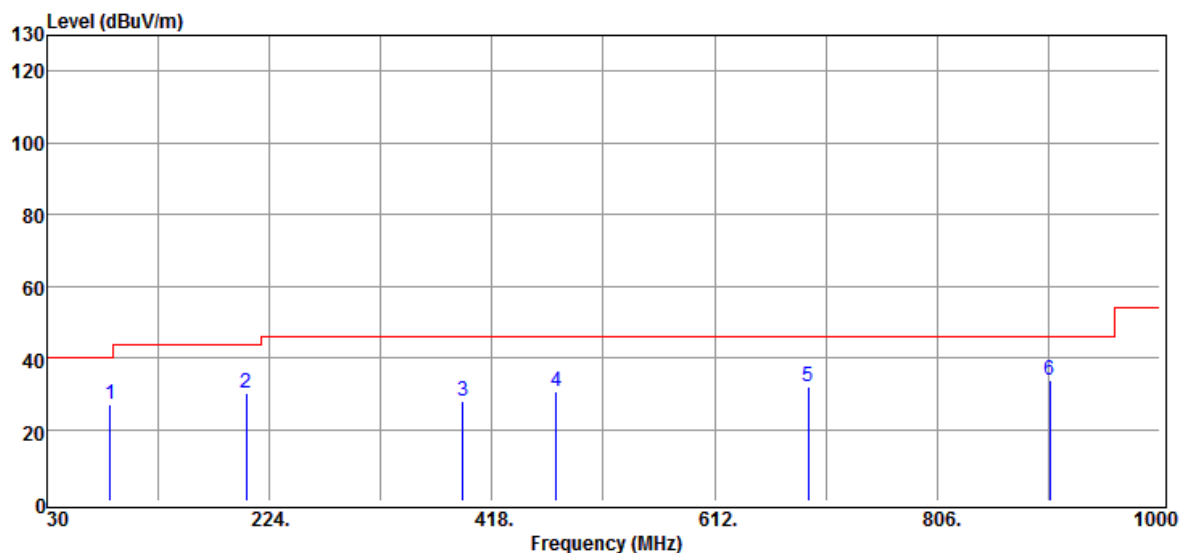
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(30MHz~1GHz)

Operation Mode	:NFC	Test Date	:2018-09-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:13.56 MHz	Engineer	:Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
85.29	Peak	49.42	-22.27	27.15	40.00	-12.85
203.63	Peak	48.69	-18.66	30.03	43.50	-13.47
392.78	Peak	41.06	-12.98	28.08	46.00	-17.92
474.26	Peak	41.87	-11.22	30.65	46.00	-15.35
693.48	Peak	39.46	-7.49	31.97	46.00	-14.03
903.97	Peak	38.94	-5.22	33.72	46.00	-12.28

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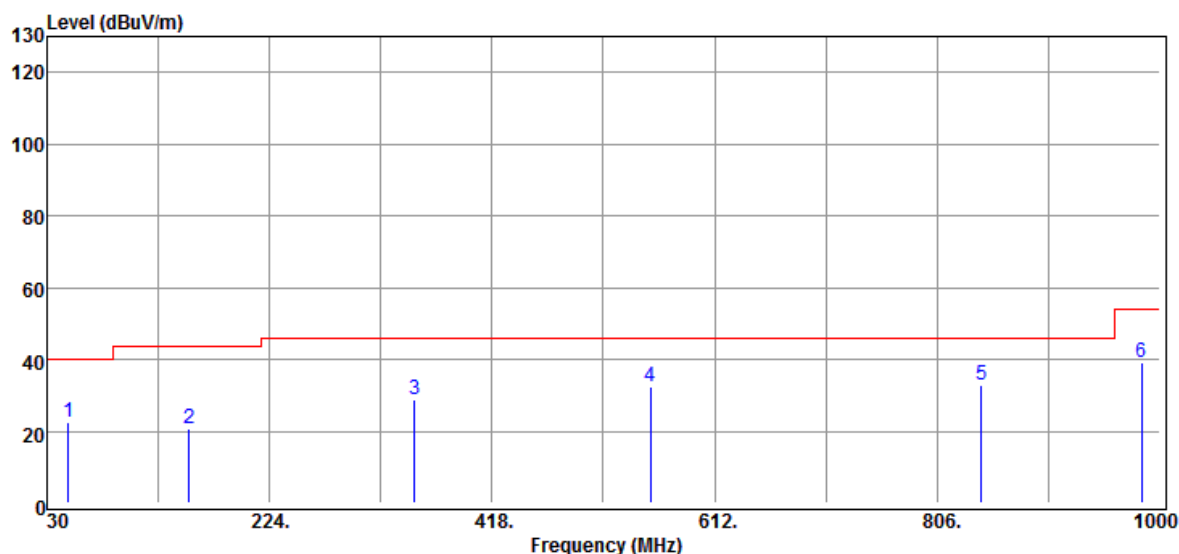
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Operation Mode	:NFC	Test Date	:2018-09-17
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:13.56 MHz	Engineer	:Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
48.43	Peak	39.35	-16.93	22.42	40.00	-17.58
154.16	Peak	36.94	-16.17	20.77	43.50	-22.73
350.10	Peak	42.89	-13.95	28.94	46.00	-17.06
555.74	Peak	42.52	-10.30	32.22	46.00	-13.78
844.80	Peak	38.87	-6.02	32.85	46.00	-13.15
984.48	Peak	42.64	-3.65	38.99	54.00	-15.01

~ End of Report ~

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