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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,

NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

Manufacturer: CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,

NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

Product Name: POS Terminal

Brand Name: CASTLES

Model No.: S1U2

Model Difference: N/A

Report Number: TERF2210002029E2

FCC ID WIYS1U2001

IC: 27350-S1U2001

Date of EUT Received: October 20, 2022

Date of Test: November 09, 2022~November 15, 2022

Issue Date: December 02, 2022

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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 comply with FCC rule part §15.225, ISED RSS-210.

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

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2210002029E2	00	Original.	December 02, 2022	Susan Lin			

Note:

1 • The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION

Product Description

Product Name:	POS Terminal
Brand Name:	CASTLES TECHNOLOGY
Model No.:	S1U2
Model Difference:	N/A
Hardware Version:	V1.00
Firmware Version:	N/A
EUT Series No.:	573223499937
Power Supply:	9Vdc from Adapter
Test Software (Name/Version):	Smartsnippets Toolbox 5.0.16.3720

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 48.55dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology

FCC Part 15, Subpart C §15.225 RSS-210 issue 10 December 2019 RSS-Gen, Issue 5 April 2018

ANSI C63.10:2013.

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Dood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	T\\/0027	
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	TW0027	TW3702
		Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	TW0028	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No 2 Koji 1et Pd. Cujeban Dietriet	Conducted A		
	No.2, Keji 1st Rd., Guishan District,	Conducted B		
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.5 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.6 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

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a 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. The two LISNs provide 50uH/50 ohm 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 a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. 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 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.

2.3.3 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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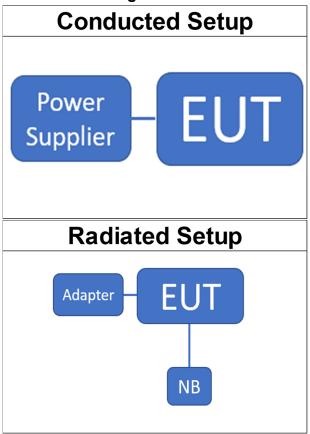
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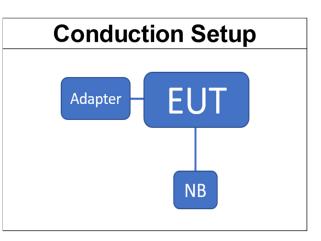


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2.4 Test Configuration





2.5 Control Unit(s)

. ,								
AC Power-Line Conducted Emission Test Site: Conduction C								
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N.C.R	N.C.R			
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N.C.R	N.C.R			
Notebook	Lenovo	T470	P0001293	N/A	N/A			

Radiated Emission Test Site: SAC G							
EQUIPMENT TYPE	MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE						
Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N/A	N/A		
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N/A	N/A		
Notebook	Lenovo	T470	P0001293	N/A	N/A		

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	ISED Rules Description Of Test	
§15.207	RSS-Gen § 8.8	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	RSS210 Annex B B.6	Radiated Emission	Compliant
§15.209	RSS-Gen § 8.9	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	RSS210 Annex B B.6 (b)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	RSS-Gen § 6.7	Emission Bandwidth	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission 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. Only one configuration is supported/applicable as follows.

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 radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Unc	ertainty	,
AC Power Line Conducted Emission	+/-	2.34	dB
Frequency Stability	+/-	1.53	Hz
Emission Bandwidth	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
Polarization: Vertical	+/-	2.57	dB	9kHz~30MHz	
	+/-	4.85	dB	30MHz - 1000MHz	
	+/-	4.45	dB	1GHz - 18GHz	
	+/-	4.24	dB	18GHz - 40GHz	
Polarization: Horizontal	+/-	2.57	dB	9kHz~30MHz	
	+/-	4.37	dB	30MHz - 1000MHz	
	+/-	4.45	dB	1GHz - 18GHz	
	+/-	4.24	dB	18GHz - 40GHz	

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C							
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	973	04/13/2022	04/12/2023		
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023		
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023		
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2022	03/26/2023		
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R		

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted D							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R		
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/08/2022	06/07/2023		
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/21/2022	06/20/2023		
DC Power Supply	HOLA	DP-3003	D7070035	06/09/2022	06/08/2023		
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022		

6.3 Radiated Measurement

	Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023	
Loop Antenna	ETS.LINDGREN	6502	143303	05/06/2022	05/07/2023	
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023	
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023	
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM- 8000-5000-2000	210216 \ 210217 \ 210218	03/15/2022	03/14/2023	

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSIONS TEST

7.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

do potenti					
Frequency range	Limits (dBuV)				
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			

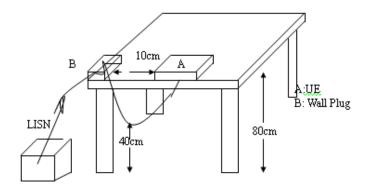
Note

- 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.

7.2 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.

7.3 Test SET-UP (Block Diagram of Configuration)



7.4 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 frequency measured were complete.

7.5 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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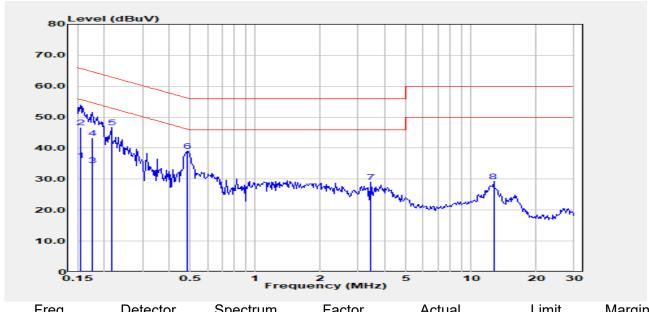
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2210002029E2 **Test Site** :Conduction C

Test Mode :NFC **Test Date** :2022-11-15

Power :120V60Hz Temp./Humi. :24.3/53

Probe Engineer :Temo Chen :L



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.155	Average	25.90	10.27	36.17	55.74	-19.57
0.155	QP	36.40	10.27	46.67	65.74	-19.07
0.176	Average	24.30	10.27	34.57	54.68	-20.11
0.176	QP	33.10	10.27	43.37	64.68	-21.31
0.215	Peak	36.52	10.27	46.79	63.01	-16.22
0.486	Peak	28.78	10.32	39.09	56.23	-17.14
3.417	Peak	18.35	10.79	29.14	56.00	-26.86
12.716	Peak	18.45	10.73	29.18	60.00	-30.82

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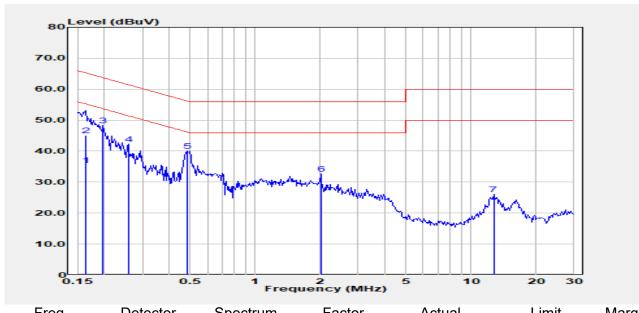
Page: 14 of 34

Report Number :TERF2210002029E2 Test Site :Conduction C

Test Mode :NFC Test Date :2022-11-15

Power :120V60Hz Temp./Humi. :24.3/53

Probe :N Engineer :Temo Chen



dB
-19.82
-20.12
-15.35
-19.22
-16.11
-23.37
-34.02

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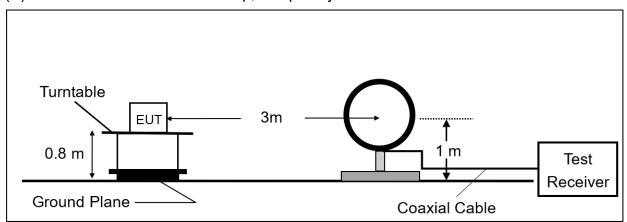


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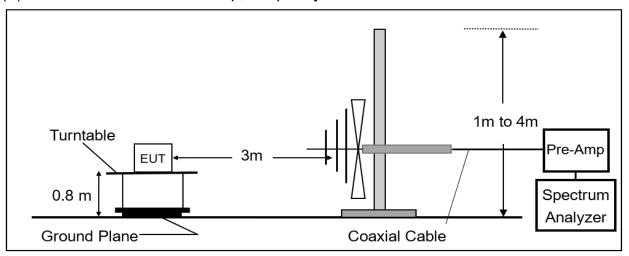
RADIATED EMISSION TEST

8.1 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



8.2 **Measurement Procedure**

- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 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.

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8.3 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:

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

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8.4 Field Strength of Fundamental Emission

8.4.1 Applicable standard

Rules and specifiactions	CFR 47 Part 15 section 15.225(a)-(d)				
Frequency of Emission (MHz)	Field Strength (μV/m)at 30m	Field Strength (dBµV/m)at 30m			
1.705~13.110	30	29.5			
13.110~13.410	106	40.5			
13.410~13.553	334	50.5			
13.553~13.567	15848	84			
13.567~13.710	334	50.5			
13.710~14.010	106	40.5			
14.010~30.00	30	29.5			

Radiated Mask per ISED RSS 210 Annex B B6

- (a) 15.848 millivolts/m (84 dBµV/m) at 30 m, within the band 13.553-13.567 MHz.
- (b) 334 microvolts/m (50.5 dBµV/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz.
- (c) 106 microvolts/m (40.5 dBµV/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz.
- (d) RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz

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Distance Extrapolation Factor

30m to 3m

Distance extrapolation = 40 * log (30/3) = 40 dB

30m to 10m

Distance extrapolation = 40 * log (30/10) = 19.08 dB

10m to 3m

Distance extrapolation = $40 \cdot \log (10/3) = 20.92 \, dB$

Note:

- 1. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 2. The lower limit shall apply at the transition frequencies.
- 3. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

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

Below 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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8.4.3 Field Strength of Fundamental Emission Measurement Result

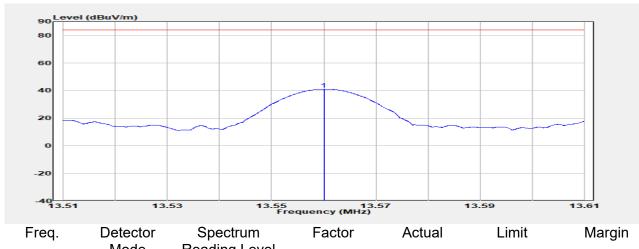
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :22.2/62

Test Mode :Main Antenna Pol. :VERTICAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBµV/m	dB
12 560	Dook	60.27	20.26	44 44	94.00	42.90
13.560	Peak	69.37	-28.26	41.11	84.00	-42.89

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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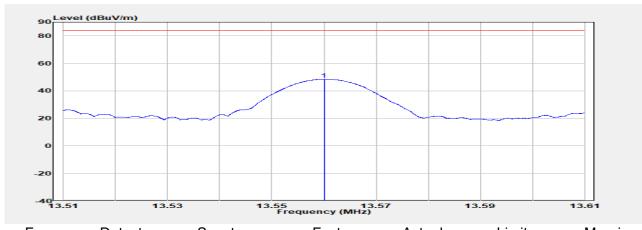
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :22.2/62

Test Mode :Main Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
13.560	Peak	76.81	-28.26	48.55	84.00	-35.45

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz. Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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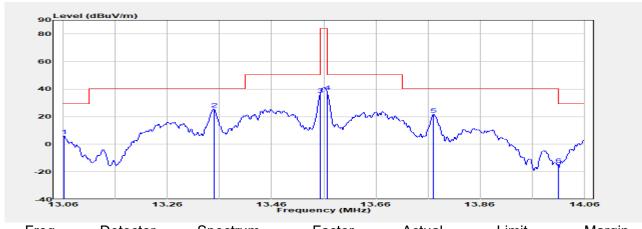
Test Site Report Number :TERF2210002029E2 :SAC G

Test Date Operation Mode :NFC :2022-11-14

Temp./Humi. **Test Frequency** :13.56 MHz :22.2/62

Antenna Pol. **Test Mode** :VERTICAL :Mask

Engineer **EUT Pol** :H Plane :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
IVII IZ	FIVQF/AV	αυμν	ub	αυμν/π	ασμν/π	uБ
13.062	Peak	34.23	-28.22	6.02	29.54	-23.52
13.349	Peak	53.67	-28.24	25.43	40.50	-15.07
13.553	Peak	64.43	-28.26	36.18	50.47	-14.29
13.566	Peak	66.39	-28.26	38.13	84.00	-45.87
13.771	Peak	49.86	-28.27	21.59	40.50	-18.91
14.010	Peak	13.71	-28.29	-14.58	29.54	-44.12

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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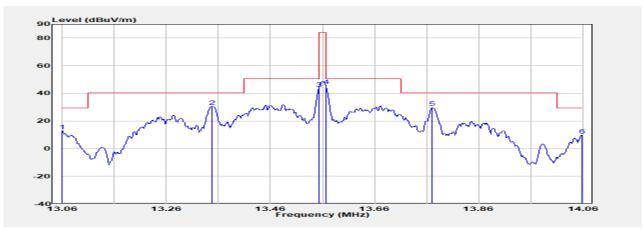
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :22.2/62

Test Mode :Mask Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Reading Level				J
MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBµV/m	dB
13.060	Peak	41.16	-28.22	12.94	29.54	-16.60
13.347	Peak	58.82	-28.24	30.58	40.50	-9.92
13.553	Peak	71.86	-28.26	43.61	50.47	-6.86
13.566	Peak	73.88	-28.26	45.62	84.00	-38.38
13.771	Peak	57.86	-28.27	29.59	40.50	-10.91
14.058	Peak	38.07	-28.29	9.78	29.54	-19.76

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre_Amplifier Gain - distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Radiated Spurious Emission Measurement

8.5.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

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:

- 1. Emission level in $dB\mu V/m=20 \log (\mu V/m)$
- Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. $20*\log(30uV/m) = 29.54 dBuV/m$
- The lower limit shall apply at the transition frequencies.
- The measurement was undertaken in closer distance at 3m, where extrapolation 5. factor is offset to convert the limit of the measurement.
- 6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205 and RSS-Gen §8.10.
- The general radiated emission limits in §15.209 and RSS-Gen §8.9 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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8.5.2 Radiated Spurious Emission Measurement Result

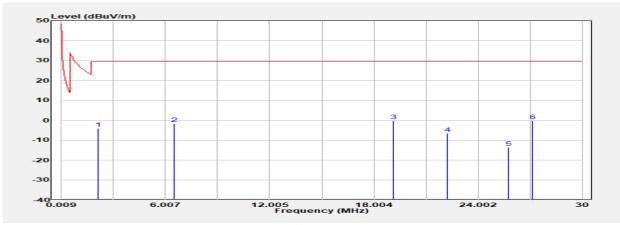
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :22.2/62

Test Mode :Tx Antenna Pol. :VERTICAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2.108	Peak	24.67	-28.87	-4.20	29.54	-33.74
6.517	Peak	26.95	-28.58	-1.63	29.54	-31.17
19.113	Peak	28.32	-28.62	-0.30	29.54	-29.84
22.232	Peak	22.46	-29.15	-6.69	29.54	-36.23
25.741	Peak	16.19	-29.81	-13.62	29.54	-43.16
27.120	Peak	29.75	-30.05	-0.30	29.54	-29.84

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz. Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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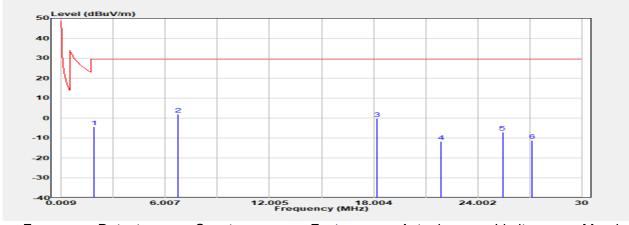
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :22.2/62

Test Mode :Tx Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
		•		•	•	
1.868	Peak	24.44	-28.83	-4.39	29.54	-33.93
6.727	Peak	30.52	-28.53	1.99	29.54	-27.55
18.214	Peak	28.22	-28.57	-0.35	29.54	-29.89
21.872	Peak	17.41	-29.07	-11.66	29.54	-41.20
25.441	Peak	22.60	-29.76	-7.16	29.54	-36.70
27.120	Peak	18.76	-30.05	-11.29	29.54	-40.83

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz. Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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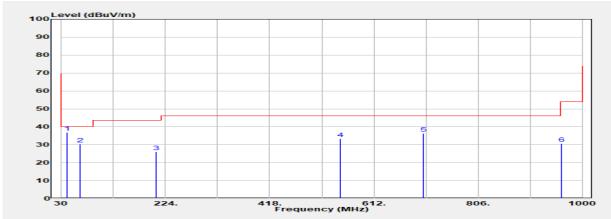
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :20.8/64

Test Mode :Tx Antenna Pol. :VERTICAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dBµV	dB	dBµV/m	dBμV/m	dB
40.680	QP	50.30	-13.41	36.90	40.00	-3.10
63.950	QP	44.20	-13.91	30.29	40.00	-9.71
206.540	QP	42.20	-16.30	25.90	43.50	-17.60
549.920	QP	40.20	-6.75	33.45	46.00	-12.55
705.120	QP	40.20	-3.83	36.37	46.00	-9.63
962.170	Peak	30.13	0.48	30.61	54.00	-23.39

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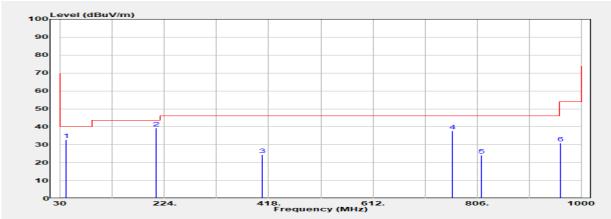
Report Number :TERF2210002029E2 Test Site :SAC G

Operation Mode :NFC Test Date :2022-11-14

Test Frequency :13.56 MHz Temp./Humi. :20.8/64

Test Mode :Tx Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dBµV	dB	dBµV/m	dBµV/m	dB
40.680	QP	46.18	-13.41	32.77	40.00	-7.23
207.510	QP	55.70	-16.32	39.38	43.50	-4.12
406.360	QP	34.20	-9.75	24.45	46.00	-21.55
759.440	QP	41.40	-3.70	37.70	46.00	-8.30
813.760	QP	26.30	-2.12	24.18	46.00	-21.82
962.170	Peak	30.55	0.48	31.02	54.00	-22.98

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FREQUENCY STABILITY

9.1 **Applicable Standard**

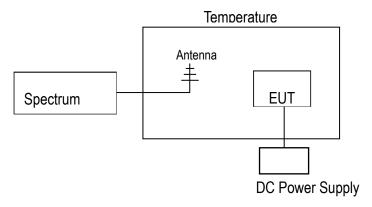
The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature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

Carrier frequency stability shall be maintained to ±0.01% (±100 ppm). For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of -20°C (-4°F), +20°C (+68°F) and +50°C (+122°F).

9.2 **Measurement Procedure**

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.

Test SET-UP (Block Diagram of Configuration) 9.3



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Measurement Results

Startup

A Temperature Variation

A. Temperature variation							
Power Supply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)			
Vuc	(℃)	(1711 12)					
9	-20	13.5591	-0.90000	+/- 1.356			
9	-10	13.55935	-0.65000	+/- 1.356			
9	0	13.55913	-0.87000	+/- 1.356			
9	10	13.55973	-0.27000	+/- 1.356			
9	20	13.55977	-0.23000	+/- 1.356			
9	30	13.55978	-0.22000	+/- 1.356			
9	40	13.55925	-0.75000	+/- 1.356			
9	50	13.55963	-0.37000	+/- 1.356			

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature	/N/LI→\	Delta (kHz)	Limit (kHz)
	(℃)	(MHz)		
10.35	20	13.55938	-0.62000	+/- 1.356
9	20	13.55997	-0.03000	+/- 1.356
7.65	20	13.55918	-0.82000	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)
Vuc	(℃)	(IVITZ)		
9	-20	13.55953	-0.47000	+/- 1.356
9	-10	13.55914	-0.86000	+/- 1.356
9	0	13.55984	-0.16000	+/- 1.356
9	10	13.55937	-0.63000	+/- 1.356
9	20	13.55973	-0.27000	+/- 1.356
9	30	13.55985	-0.15000	+/- 1.356
9	40	13.5591	-0.90000	+/- 1.356
9	50	13.55978	-0.22000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature	/N/II→\	Delta (kHz)	Limit (kHz)
	(℃)	(MHz)		
10.35	20	13.55961	-0.39000	+/- 1.356
9	20	13.55989	-0.11000	+/- 1.356
7.65	20	13.55953	-0.47000	+/- 1.356

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5 minutes

A. Temperature Variation

A. Temperature variation							
Power Supply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)			
	(℃)						
9	-20	13.55997	-0.03000	+/- 1.356			
9	-10	13.55946	-0.54000	+/- 1.356			
9	0	13.5594	-0.60000	+/- 1.356			
9	10	13.55933	-0.67000	+/- 1.356			
9	20	13.55921	-0.79000	+/- 1.356			
9	30	13.55945	-0.55000	+/- 1.356			
9	40	13.55991	-0.09000	+/- 1.356			
9	50	13.55905	-0.95000	+/- 1.356			

B. Supply Voltage Variation

B. cappiy voltage variation							
Power Supply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)			
	(℃)	(IVITIZ)					
10.35	20	13.55987	-0.13000	+/- 1.356			
9	20	13.55942	-0.58000	+/- 1.356			
7.65	20	13.56002	0.02000	+/- 1.356			

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency		
Vdc	Temperature	(NALI→)	Delta (kHz)	Limit (kHz)
Vuc	(℃)	(MHz)		
9	-20	13.55965	-0.35000	+/- 1.356
9	-10	13.55957	-0.43000	+/- 1.356
9	0	13.55921	-0.79000	+/- 1.356
9	10	13.55932	-0.68000	+/- 1.356
9	20	13.55929	-0.71000	+/- 1.356
9	30	13.55913	-0.87000	+/- 1.356
9	40	13.55984	-0.16000	+/- 1.356
9	50	13.55931	-0.69000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature	(NALI→)	Delta (kHz)	Limit (kHz)
	(℃)	(MHz)		
10.35	20	13.55973	-0.27000	+/- 1.356
9	20	13.55943	-0.57000	+/- 1.356
7.65	20	13.55904	-0.96000	+/- 1.356

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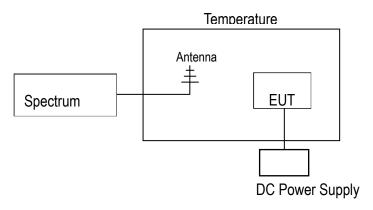
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10 EMISSION BANDWIDTH MEASUREMENT

Applicable Standard:

The 20 dB and 99% bandwidth shall be specified in operating frequency band.

10.2 **Test Set-up**



10.3 **Measurement Procedure**

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

10.4 **Measurement Result**

2.304

FCC			
20dB BW (kHz)	Opration range	Frequency (MHz)	Limit (MHz)
2.711	Low	13.55875	>13.11
	High	13.56121	<14.01
IC			
99% BW (kHz)			

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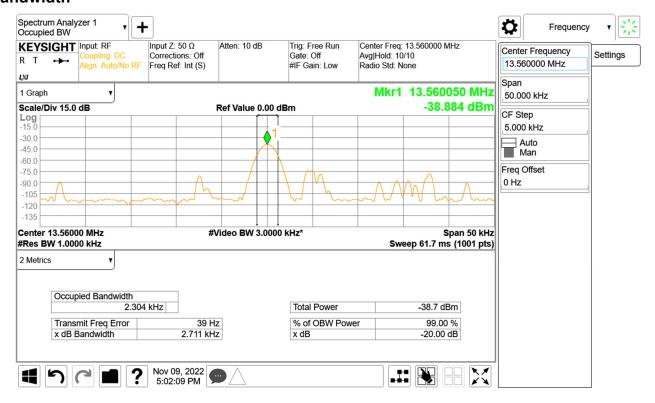
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Bandwidth



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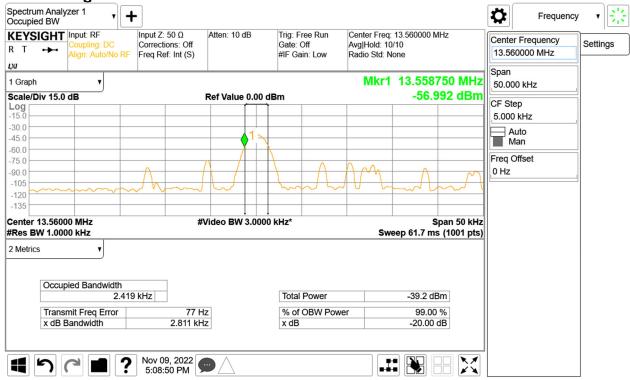
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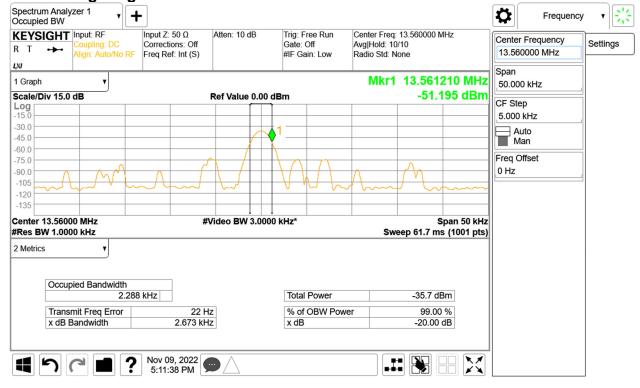


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Operation range Low



Operation range High



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11 ANTENNA REQUIREMENT

Standard Applicable:

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 §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. 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 § 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.

Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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