

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	CN210TJX(P15C-125kHz) 001	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	238490527	Seite 1 von 15 Page 1 of 15
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2020-08-20	
<b>Auftraggeber:</b> <i>Client:</i>	Whetron Electronics CO.,LTD 5F., No.959, Zhongjheng Rd., Jhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)			
<b>Prüfgegenstand:</b> <i>Test item:</i>	SMART KEY SYSTEM Host			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	S100334400T			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC Part 15C Test report			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.207 and 15.209			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2020-10-29			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A002938915-001			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2020-11-26 - 2020-11-27			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	Taipei Testing Laboratories			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>überprüft von:</b> <i>reviewed by:</i>			<b>genehmigt von:</b> <i>authorized by:</i>	
<b>Datum:</b> <i>Date:</i>	2021-05-21		<b>Ausstellungsdatum:</b> <i>Issue date:</i>	2021-05-21
<b>Stellung / Position:</b>	David Huang Project Manager		<b>Stellung / Position:</b>	Brenda Chen Senior Project Manager
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

## TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.209	Radiated Spurious Emissions	Pass
-	15.207	Mains Conducted Emission	Not Applicable

**Note:** Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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**APPENDIX A - TEST RESULT OF RADIATED SPURIOUS EMISSIONS**

**APPENDIX SP - PHOTOGRAPHS OF TEST SETUP**

**APPENDIX EP - PHOTOGRAPHS OF EUT**

## HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN210TJX(P15C-125kHz) 001	Original Release	2021-04-21

## 1. General Remarks

### 1.1 Complementary Materials

The following attachments are integral parts of this test report:

**Appendix A - Test Result of Radiated Spurious Emissions**  
**Appendix SP - Photographs of Test Setup**  
**Appendix EP - Photographs of EUT**

Test Specifications

The following standards were applied.

#### Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.207 and 15.209
ANSI C63.10:2013

### 1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

## 2. Test Sites

### 2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

### 2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,  
New Taipei City 244  
Taiwan (R.O.C.)  
FCC Registration No.: 226631  
ISED Registration No.: 25563

## 2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicate a 95% level of confidence.

### Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	$\pm 1.15$ dB
Radiated Emission (30 MHz ~ 200 MHz)	$\pm 1.30$ dB
Radiated Emission (200 MHz ~ 1 GHz)	$\pm 1.30$ dB
Mains Conducted Emission	$\pm 1.65$ dB

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a SMART KEY SYSTEM Host. It contains 125kHz compatible modules enabling the user to charge the battery through a wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 System Details and Ratings

##### Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	SMART KEY SYSTEM Host
Type Identification	S100334400T
FCC ID	2ABPM-S100334400T

##### Technical Specification of EUT

Item	EUT information
Operating Frequency	Tx: 125 kHz
Operation Voltage	12Vdc
Modulation	ASK
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3



### **3.3 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.4 Submitted Documents**

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Setup for testing: Power on the EUT and put Load device on it. EUT will start providing DC power. Power transmission and load status detection is done simultaneously using the fundamental frequency in the range of 125 kHz.

Test Software	None.
---------------	-------

The samples were used as follows:  
A002938915-001 for radiated test

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To		Description
	Radiated Spurious Emissions	Mains Conducted Emission	
-	√	-	-

Note: "-" means no effect.

#### Radiated Spurious Emissions

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (kHz)	Tested Frequency (kHz)
	Tx	
-	125	125

#### Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	21.4-22 °C	55.4-58.4 %	Simon Tsai

### 4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

#### Accessory of EUT

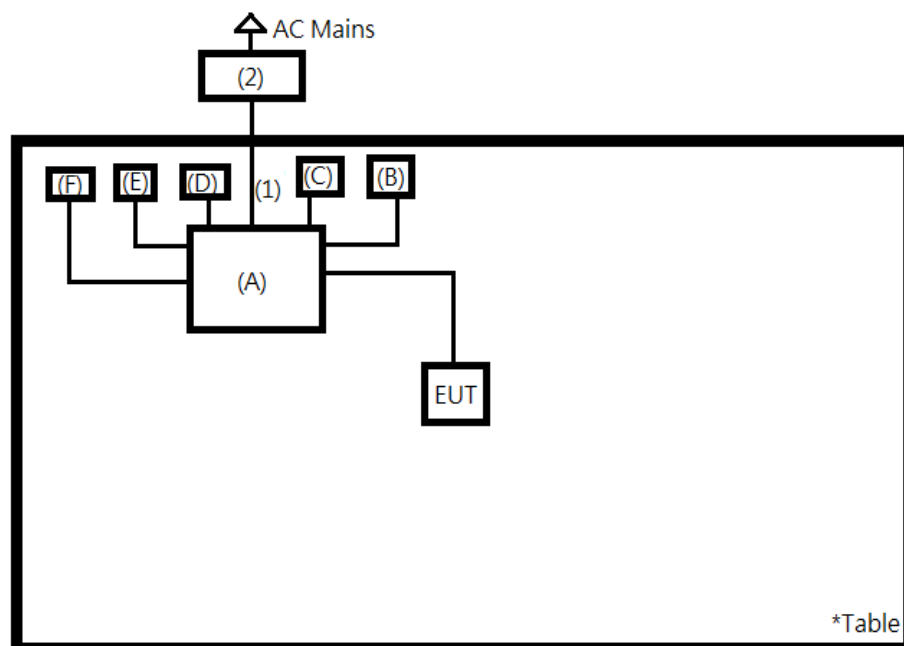
None.

#### Support Unit

No.	Description	Brand	Model	S/N	Remark
<b>Radiated Test</b>					
A	Test control box	Kwang Yang	-	-	-
B	Fixture	Kwang Yang	-	-	90cm non-shielded cable w/o core
C	Fixture	Kwang Yang	-	-	50cm non-shielded cable w/o core
D	Fixture	Kwang Yang	-	-	40cm non-shielded cable w/o core
E	Fixture	Kwang Yang	-	-	40cm non-shielded cable w/o core
F	Fixture	Kwang Yang	-	-	50cm non-shielded cable w/o core
1	Power Cable	-	-	-	180cm non-shielded cable w/o core
2	Power Supply	PeakTech	2250	-	12.5Vdc

### 4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**Requirement** Use of approved antennas only

The antenna is a PCB Antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.

## 5.1.2 Radiated Spurious Emissions

### Limit

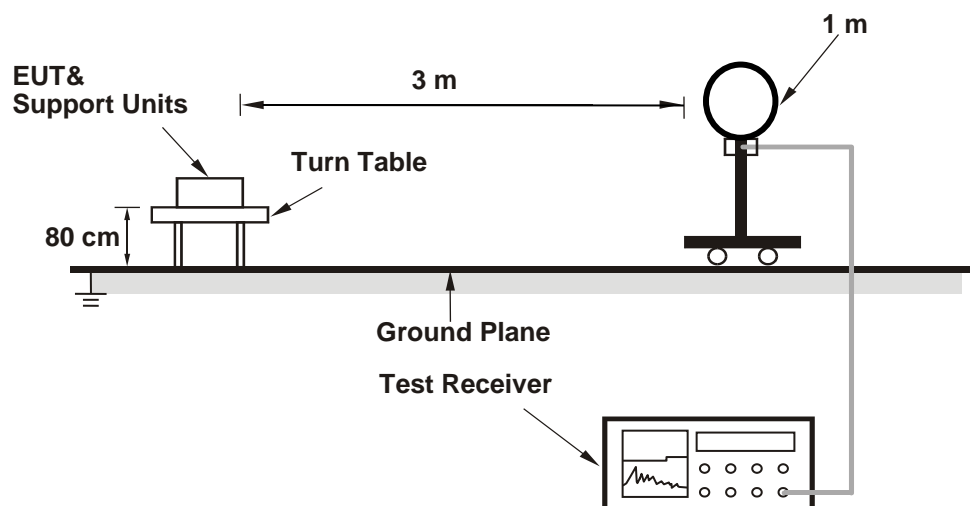
The field strength of any emissions shall not exceed the general radiated emission limits in §15.209 as below table:

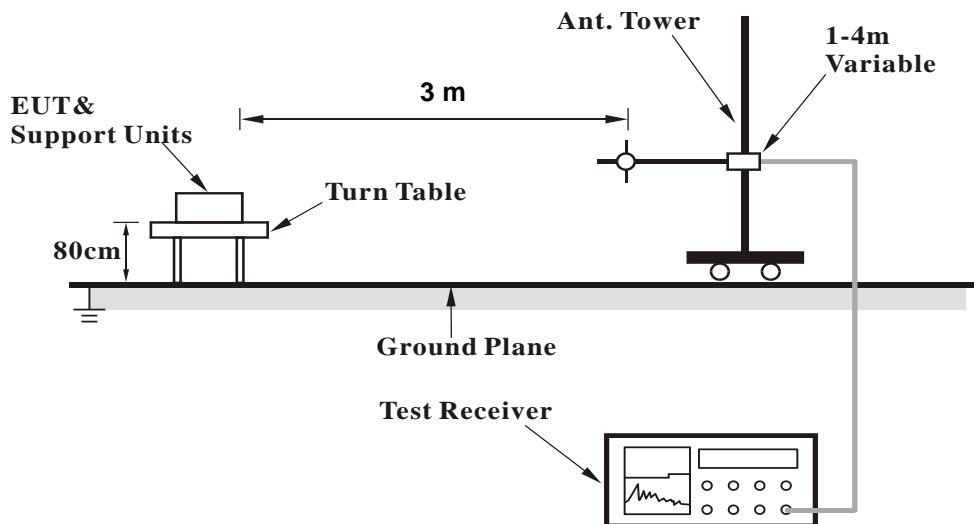
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

**Kind of Test Site** 3m Semi-Anechoic Chamber

### Test Setup

<Radiated Emissions below 30 MHz>



**<Radiated Emissions 30 MHz to 1 GHz>**


For the actual test configuration, please refer to the attached file (Test Setup Photo).

**Test Instruments**

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101508	2020/3/16	2021/3/15
Receiver	R&S	ESR7	102108	2020/4/22	2021/4/21
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2020/2/14	2021/2/12
Horn Antenna	ETS-Lindgren	3117	00218930	2019/12/6	2020/12/4
LF-AMP	Agilent	8447D	2944A10772	2020/2/11	2021/2/9
HF-AMP + AC source	EMCI	EMC051845SE	980633	2020/2/17	2021/2/15
HF-AMP + AC source	EMCI	EMC184045SE	980657	2020/2/17	2021/2/15
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2020/4/10	2021/4/9
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2020/4/22	2021/4/21
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/7

**Test Procedures****For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

## Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

**For Radiated Emissions above 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

## Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.
3. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

**Test Results**

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

# Appendix A: Test Results of Radiated Spurious Emissions

## Fundamental

125kHz																																																											
Grounding	Open (Horizontal)																																																										
<div style="text-align: right; font-size: small;">TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322</div> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Read Level</th> <th>Level Factor</th> <th>Limit Line</th> <th>Over Limit</th> <th>APos</th> <th>TPos</th> <th>Remark</th> <th>Pol/Phase</th> <th>Note</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.13</td> <td>92.91</td> <td>35.11</td> <td>57.80</td> <td>105.66</td> <td>-12.75</td> <td>100</td> <td>180</td> <td>QP</td> <td>Ground</td> </tr> </tbody> </table>	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dB/m	dBuV/m	dB	cm	deg			1	0.13	92.91	35.11	57.80	105.66	-12.75	100	180	QP	Ground	<div style="text-align: right; font-size: small;">TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322</div> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Read Level</th> <th>Level Factor</th> <th>Limit Line</th> <th>Over Limit</th> <th>APos</th> <th>TPos</th> <th>Remark</th> <th>Pol/Phase</th> <th>Note</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.13</td> <td>97.70</td> <td>39.90</td> <td>57.80</td> <td>105.66</td> <td>-7.96</td> <td>100</td> <td>182</td> <td>QP</td> <td>Open</td> </tr> </tbody> </table>	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dB/m	dBuV/m	dB	cm	deg			1	0.13	97.70	39.90	57.80	105.66	-7.96	100	182	QP	Open
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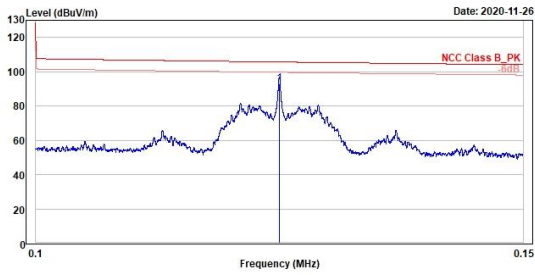


125kHz

Close (Vertical)



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.13	92.84	35.04	57.80	105.66	-12.82	100	221	QP	Close

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

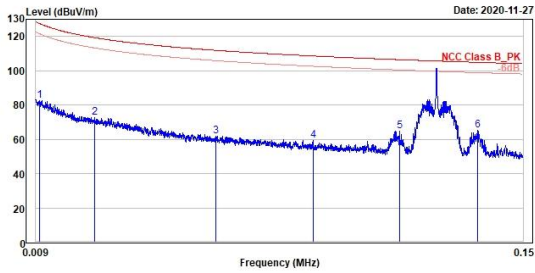
125kHz

(Open) 9kHz~150kHz

(Open) 150kHz~30MHz



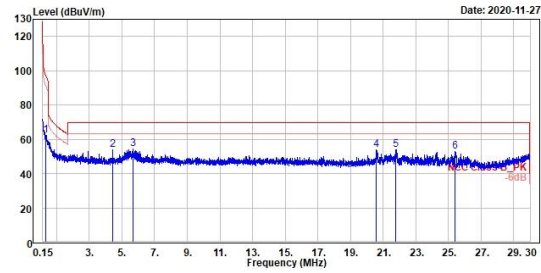
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	82.62	3.89	78.73	127.44	-44.82	100	163	QP	Open
2	72.90	1.44	71.46	119.28	-46.38	100	224	QP	Open
3	62.02	-1.48	63.50	111.86	-49.84	100	247	QP	Open
4	59.36	-1.15	60.51	108.59	-49.23	100	321	QP	Open
5	64.69	6.27	58.42	106.43	-41.74	100	163	QP	Open
6	65.15	8.04	57.11	104.87	-39.72	100	111	QP	Open

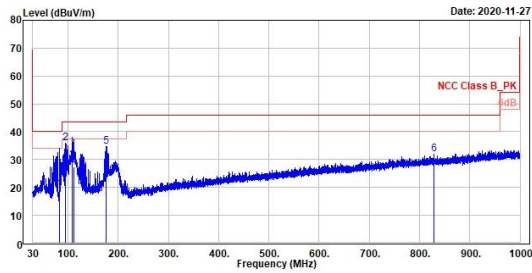


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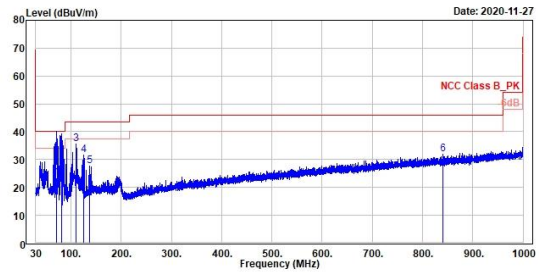


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	62.42	12.95	49.47	96.80	-34.38	100	112	QP	Open
2	54.11	15.78	38.33	69.50	-15.39	100	211	QP	Open
3	54.37	16.82	38.35	69.50	-15.13	100	68	QP	Open
4	54.02	17.88	36.14	69.50	-15.48	100	47	QP	Open
5	54.09	18.18	35.91	69.50	-15.41	100	19	QP	Open
6	52.97	18.85	34.12	69.50	-16.53	100	19	QP	Open

**Spurious Emissions, Tx Mode, 30MHz ~ 1GHz**
**125kHz**
**Horizontal**
**Vertical**

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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	83.54	19.45	32.34	-12.89	40.00	-20.55	400	357	QP	Horizontal
2	95.26	35.67	49.33	-13.46	43.50	-7.63	200	0	QP	Horizontal
3	107.99	29.65	41.00	-11.35	43.50	-13.85	200	263	QP	Horizontal
4	111.97	27.49	38.37	-10.88	43.50	-16.01	300	0	QP	Horizontal
5	176.18	34.78	42.72	-7.94	43.50	-8.72	200	0	QP	Horizontal
6	829.28	31.91	29.67	2.24	46.00	-14.09	100	211	QP	Horizontal


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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	71.13	23.29	33.60	-10.31	40.00	-16.71	100	358	QP	Vertical
2	81.00	24.32	35.78	-11.46	40.00	-15.68	100	0	QP	Vertical
3	110.03	35.57	46.67	-11.10	43.50	-7.93	200	360	QP	Vertical
4	125.35	31.61	41.27	-9.66	43.50	-11.89	100	0	QP	Vertical
5	136.51	27.79	36.04	-8.25	43.50	-15.71	100	244	QP	Vertical
6	839.85	31.97	29.67	2.30	46.00	-14.03	300	55	QP	Vertical