



FCC RF Test Report

APPLICANT : Wacom Co., Ltd.
EQUIPMENT : Portable Pad
BRAND NAME : Wacom
MODEL NAME : DTHA140
FCC ID : HV4DTHA140
STANDARD : FCC Part 15 Subpart C §15.209
CLASSIFICATION : (DCD) Part 15 Low Power Transmitter Below 1705 kHz
TEST DATE(S) : Sep. 10, 2025 ~ Sep. 15, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Applicant.....	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Modification of EUT	5
1.5 Test Location	6
1.6 Test Software	6
1.7 Applied Standards	6
2 Test Configuration of Equipment Under Test	7
2.1 Test Mode	7
2.2 Connection Diagram of Test System	7
3 Test Result	8
3.1 20dB and 99% Occupied Bandwidth Measurement	8
3.2 Radiated Emission Measurement	13
3.3 AC Conducted Emission Measurement	39
3.4 Antenna Requirements.....	43
4 List of Measuring Equipment.....	44
5 Measurement Uncertainty	45
Appendix A. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR552114	01	Initial issue of report	Sep. 15, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1049	20dB Bandwidth	Reporting Only	-
3.1	2.1049	99% Occupied Bandwidth	Reporting Only	-
3.2	15.209	Radiated Emission	Pass	Under limit 3.14 dB at 34.608 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 6.05 dB at 0.181 MHz
3.4	15.203	Antenna Requirements	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Wacom Co., Ltd.

2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan

1.2 Manufacturer

Wacom Co., Ltd.

2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Pad
Brand Name	Wacom
Model Name	DTHA140
FCC ID	HV4DTHA140
SN Code:	Conducted: 5fls1u1000088 Conduction: 5gls1u10000228 Radiation: JPDBBG7636A00332
HW Version	V2
SW Version	Wacom_MovinkPad_14-userdebug 15 Mimosa_DEV_ userdebug_TC_11 20250629 release-keys
Frequency	666.67KHz / 562.5KHz / 531.25KHz / 593.75KHz
Type of Modulation	ASK
Antenna Type	Coil Antenna
EUT Stage	Identical Prototype

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

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



1.5 Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH07-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH07-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.209, §15.207
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2020

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

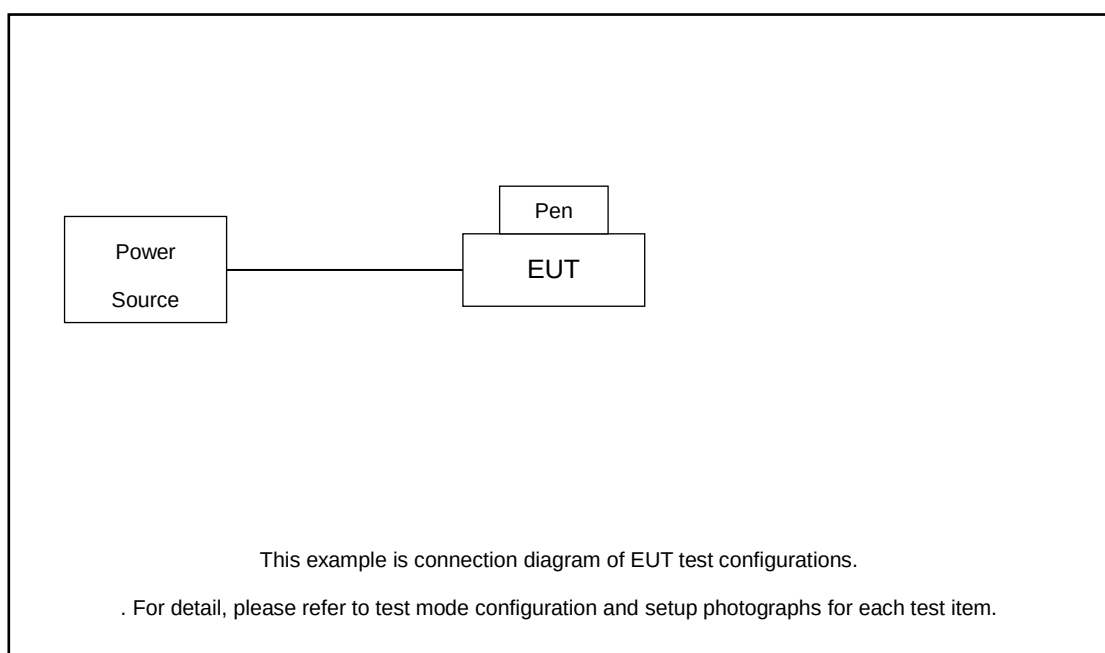
2 Test Configuration of Equipment Under Test

2.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 1000 MHz).

Test Items	Function Type
AC Conducted Emission	Mode 1: EMR Tx
Radiated Emission	Mode 1: 666.67KHz Tx Mode 2: 562.5KHz Tx Mode 3: 531.25KHz Tx Mode 4: 593.75KHz Tx
Remark: The tests were performed with Adapter, Battery and USB Cable.	

2.2 Connection Diagram of Test System



3 Test Result

3.1 20dB and 99% Occupied Bandwidth Measurement

3.1.1 Limit of 20dB and 99% Occupied Bandwidth

Reporting only, 99% OBW shall not located within 15.205 restricted bands.

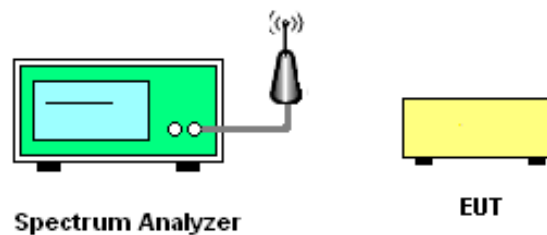
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while wirelessly charging a charging board.
2. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
3. Measure and record the results in the test report.

3.1.4 Test Setup





3.1.5 Test Result of 20dB and 99% Bandwidth

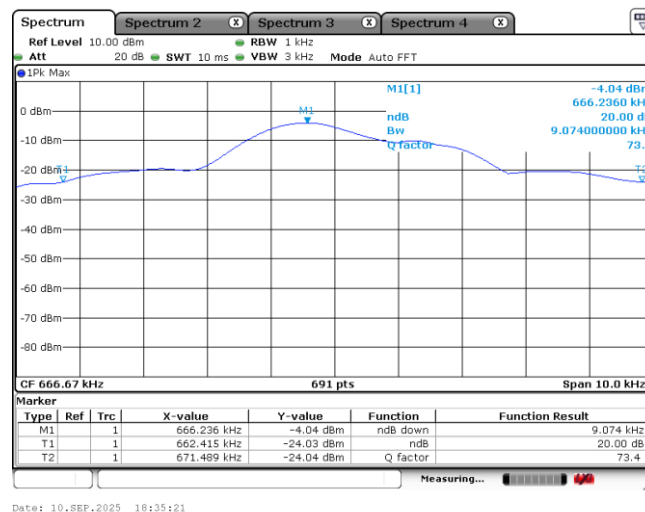
Test Engineer :	Albert shi	Temperature :	22~24°C
		Relative Humidity :	53~55%

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW.

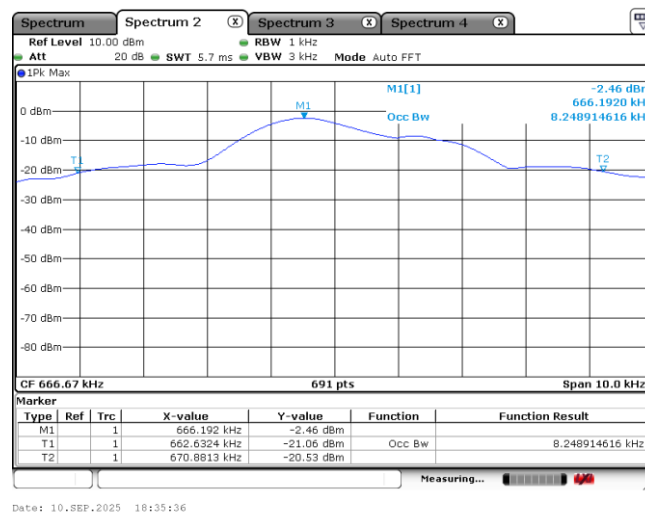
Mode 1: 666.67KHz

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	9.074
99% Bandwidth(KHz)	8.249

20 dB Bandwidth Plot



99% Occupied Bandwidth Plot

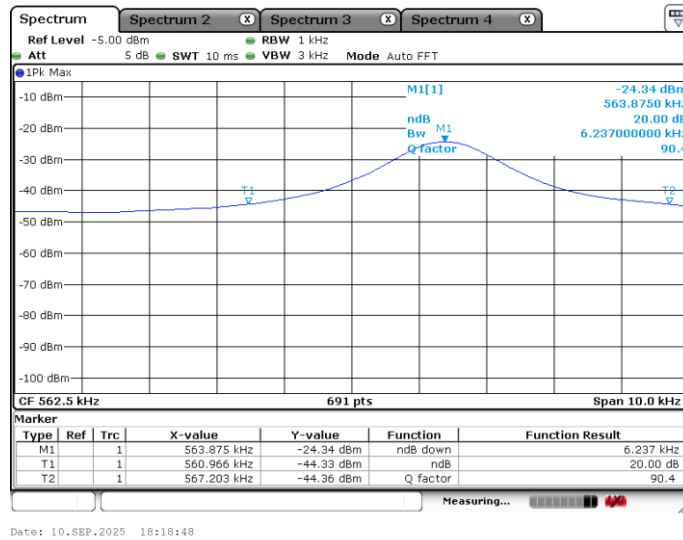




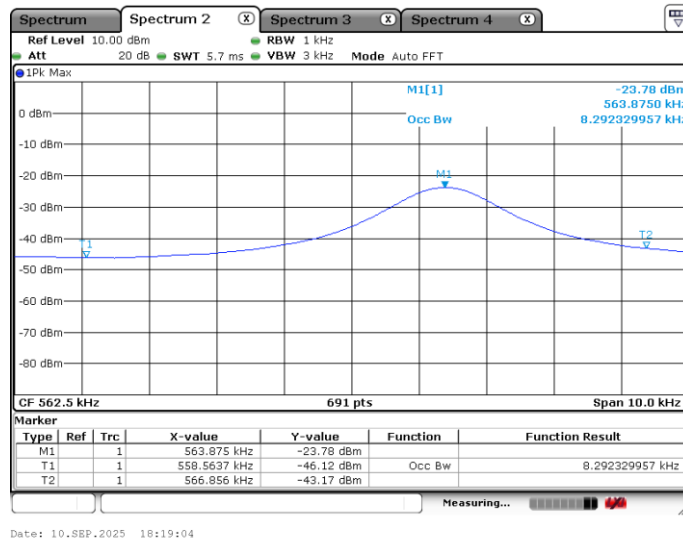
Mode 2: 562.5KHz

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	6.237
99% Bandwidth(KHz)	8.292

20 dB Bandwidth Plot



99% Occupied Bandwidth Plot

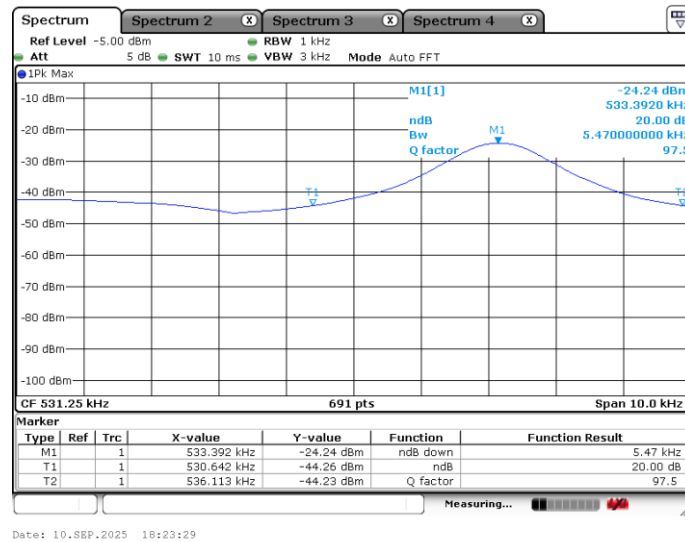




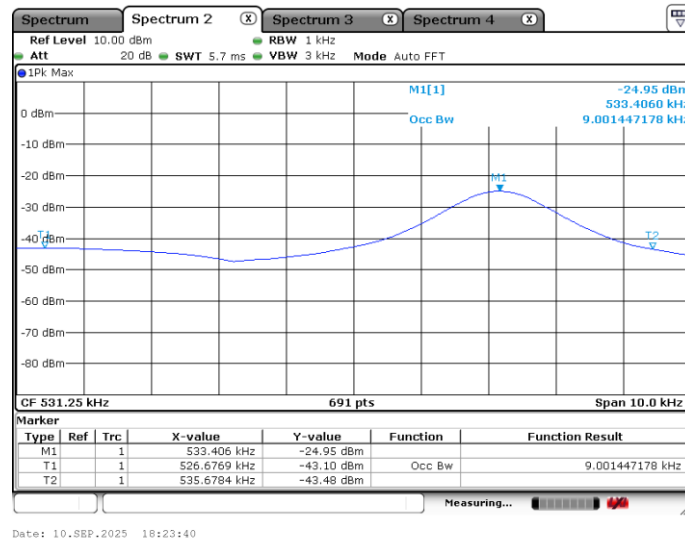
Mode 3: 531.25KHz

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	5.470
99% Bandwidth(KHz)	9.001

20 dB Bandwidth Plot



99% Occupied Bandwidth Plot

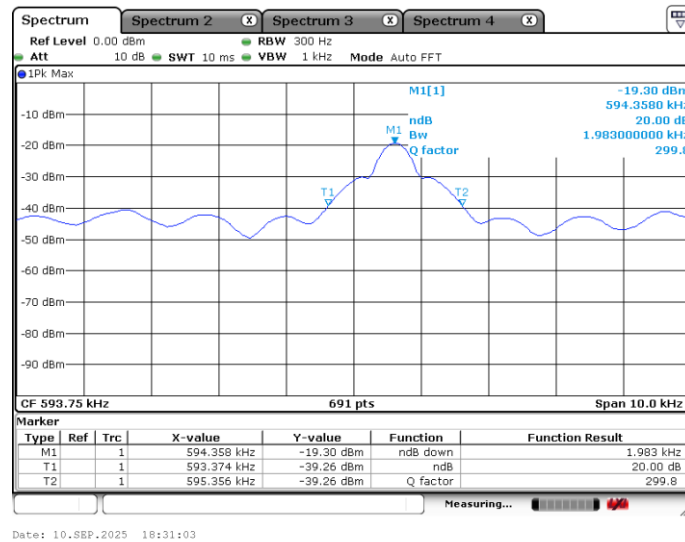




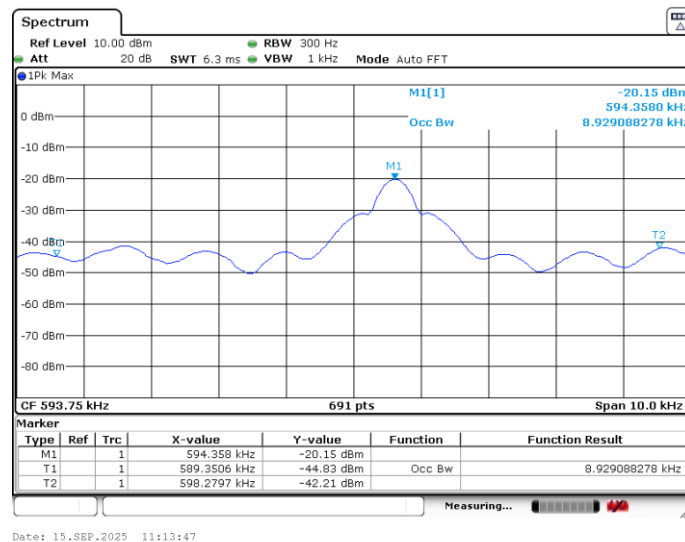
Mode 4: 593.75KHz

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	1.983
99% Bandwidth(KHz)	8.929

20 dB Bandwidth Plot



99% Occupied Bandwidth Plot



3.2 Radiated Emission Measurement

3.2.1 Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (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

Receiver Parameter	Setting
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: 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. Radiated emission limits in these two bands are based on measurements employing an average detector.

For radiated emissions from 9kHz to 1GHz test distance is 3m

For 9kHz ~ 30MHz

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
3. specific line (dB μ V/m) = $20 \log$ Emission level (μ V/m)

3.2.2 Measuring Instruments

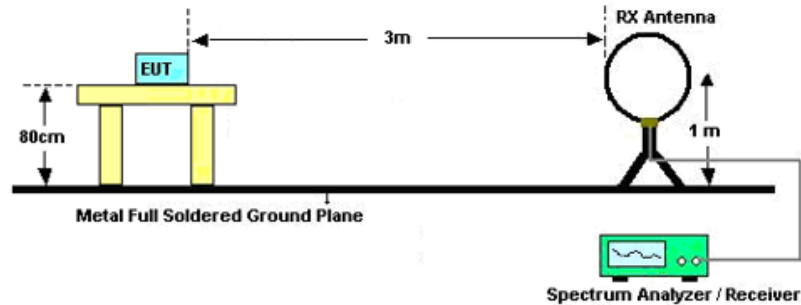
See list of measuring equipment of this test report.

3.2.3 Measuring Instrument Setting

Follow the guidelines in C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.2.4 Test Setup of Radiated Emission

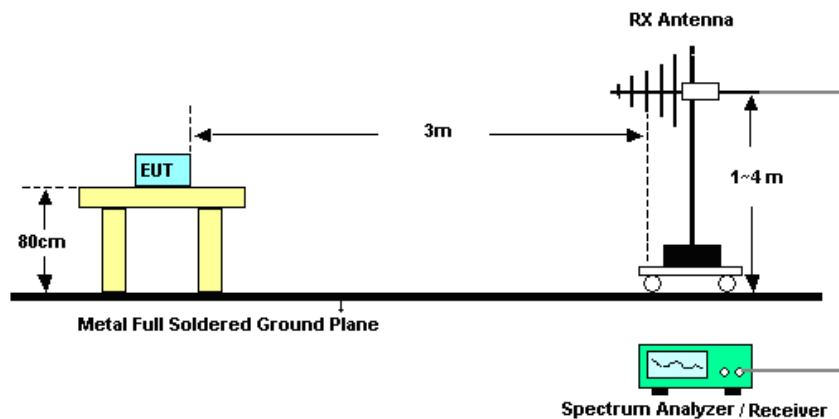
For radiated emissions below 30MHz



Note:

1. There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.
2. Tested for radiated below 30 MHz using a loop antenna in accordance with C63.10, the antenna was positioned in three antenna orientations: horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two mode was reported.

For radiated emissions above 30MHz

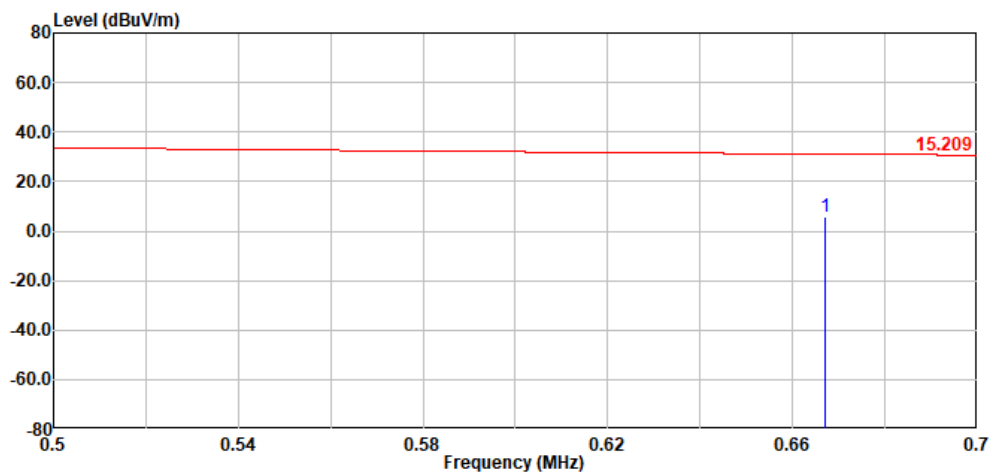




3.2.5 Test Result of Fundamental Emission

Mode 1: 666.67KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%



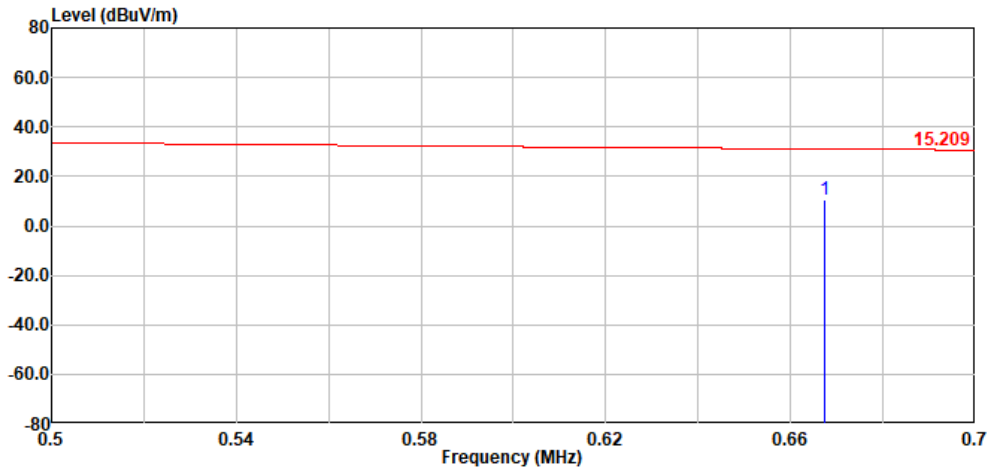
Site : 03CH07-KS

Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.667	5.88	31.10	-25.22	26.28	19.51	0.09	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



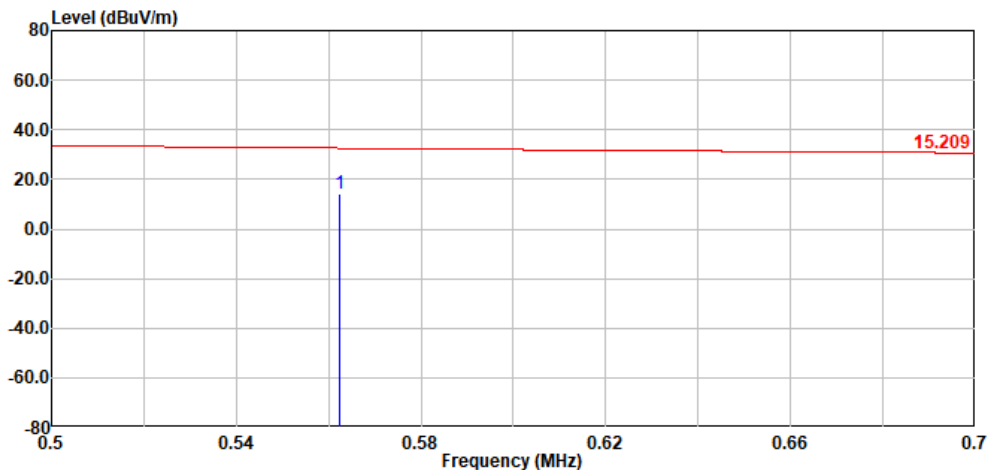
Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.668	10.52	31.10	-20.58	30.92	19.51	0.09	-40.00	---	---	QP



Mode 2: 562.5KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

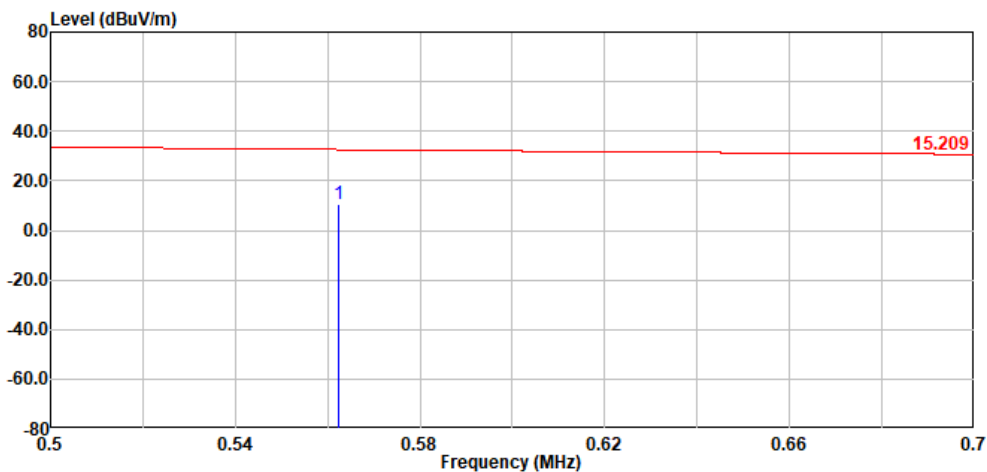


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.563	14.12	32.59	-18.47	34.53	19.50	0.09	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



Site : 03CH07-KS

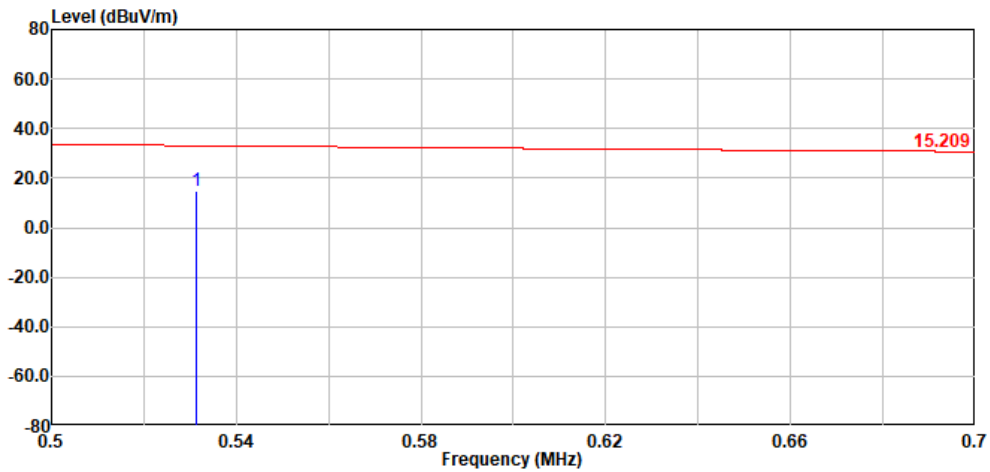
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.563	10.61	32.59	-21.98	31.02	19.50	0.09	-40.00	---	---	QP



Mode 3: 531.25KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

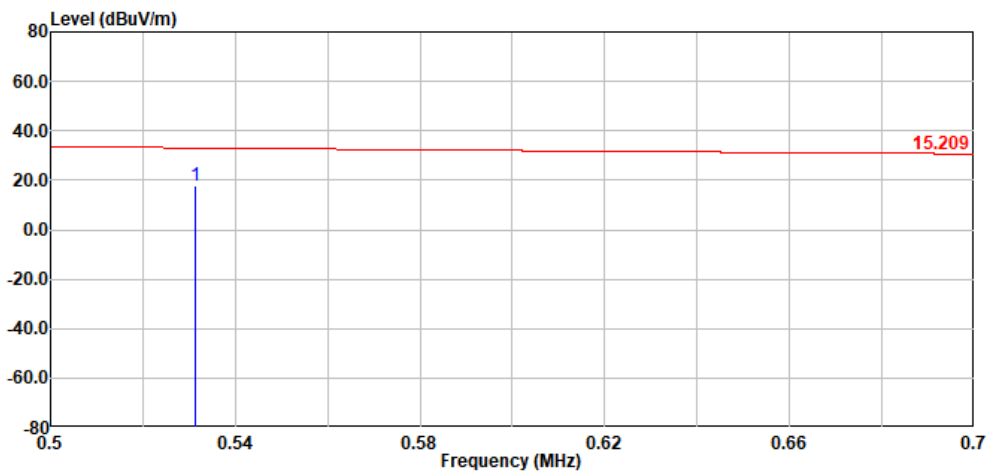


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.531	14.68	33.09	-18.41	35.09	19.50	0.09	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



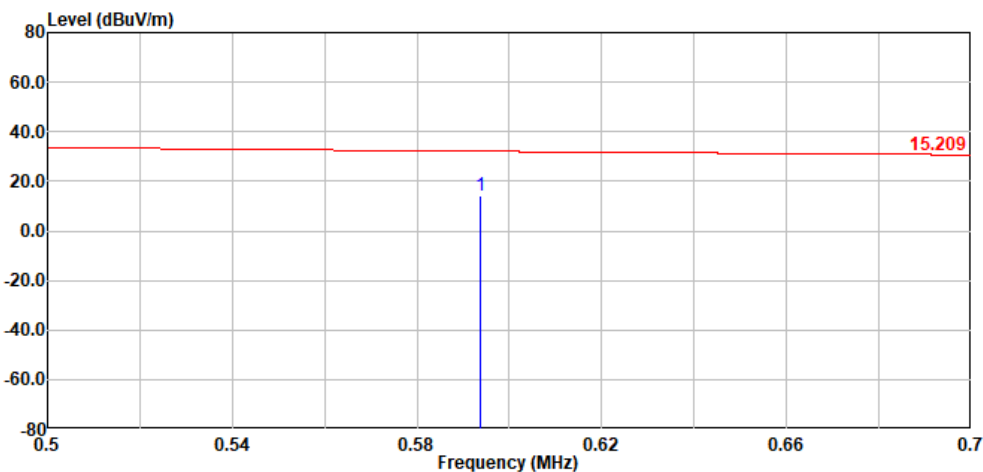
Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.531	18.08	33.09	-15.01	38.49	19.50	0.09	-40.00	---	---	QP



Mode 4: 593.75KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

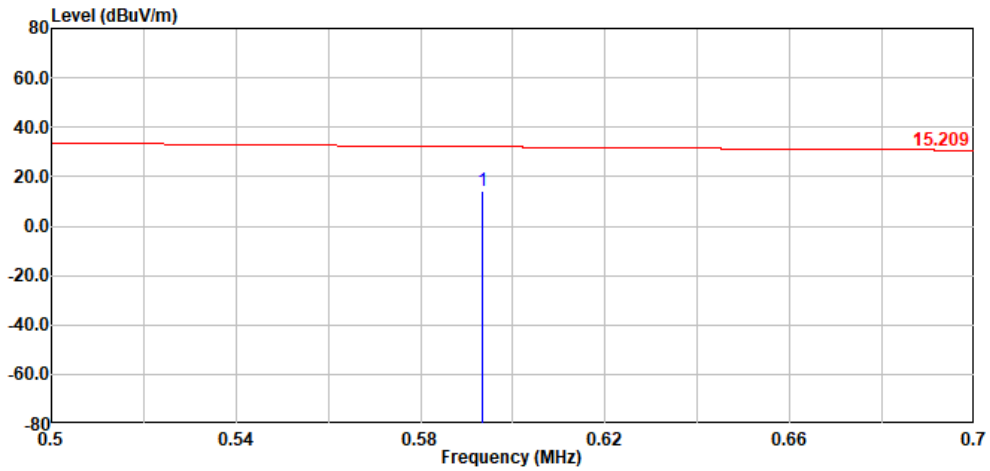


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.594	14.08	32.12	-18.04	34.49	19.50	0.09	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



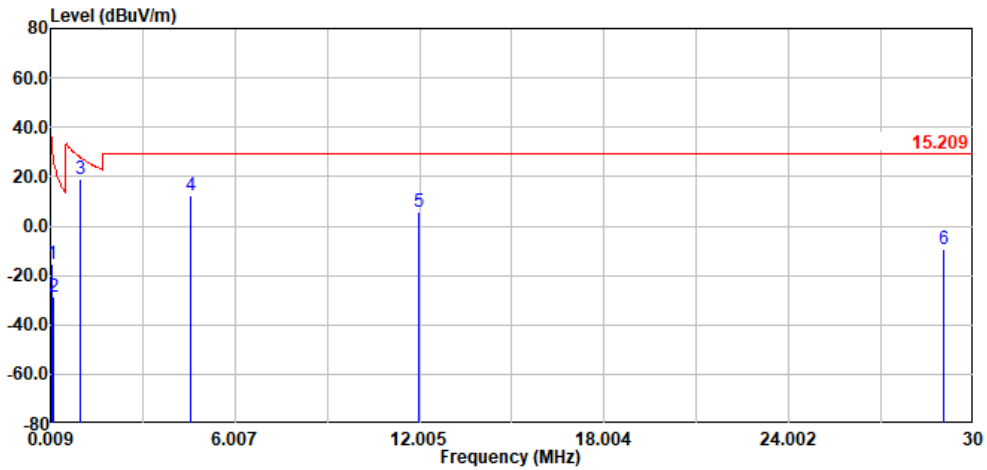
Site : 03CH07-K5
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.593	14.10	32.13	-18.03	34.51	19.50	0.09	-40.00	---	---	QP

3.2.6 Test Result of Radiated Emission (9kHz ~ 30MHz)

Mode 1: 666.67KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

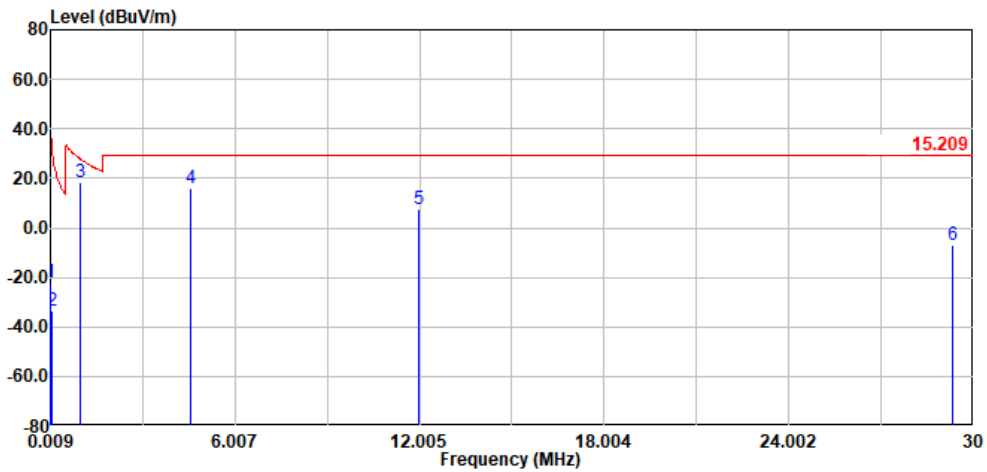


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.046	-15.35	34.41	-49.76	44.81	19.75	0.09	-80.00	---	---	Average
2	0.092	-28.87	28.28	-57.15	31.41	19.63	0.09	-80.00	---	---	QP
3	0.973	19.14	27.80	-8.66	39.53	19.52	0.09	-40.00	---	---	QP
4	4.574	12.09	29.50	-17.41	32.38	19.57	0.14	-40.00	---	---	QP
5	11.978	5.54	29.50	-23.96	25.75	19.54	0.25	-40.00	---	---	QP
6	29.021	-9.33	29.50	-38.83	9.92	20.29	0.46	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%

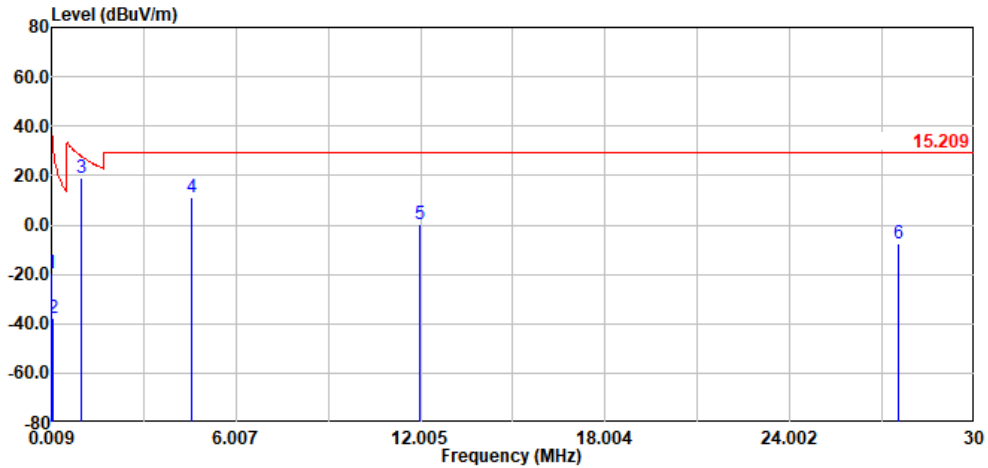


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.033	-21.93	37.34	-59.27	38.16	19.82	0.09	-80.00	---	---	Average
2	0.065	-33.76	31.35	-65.11	26.46	19.69	0.09	-80.00	---	---	Average
3	0.975	18.71	27.78	-9.07	39.10	19.52	0.09	-40.00	---	---	QP
4	4.582	15.98	29.50	-13.52	36.27	19.57	0.14	-40.00	---	---	QP
5	11.987	7.70	29.50	-21.80	27.91	19.54	0.25	-40.00	---	---	QP
6	29.320	-6.96	29.50	-36.46	12.25	20.33	0.46	-40.00	---	---	QP

Mode 2: 562.5KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

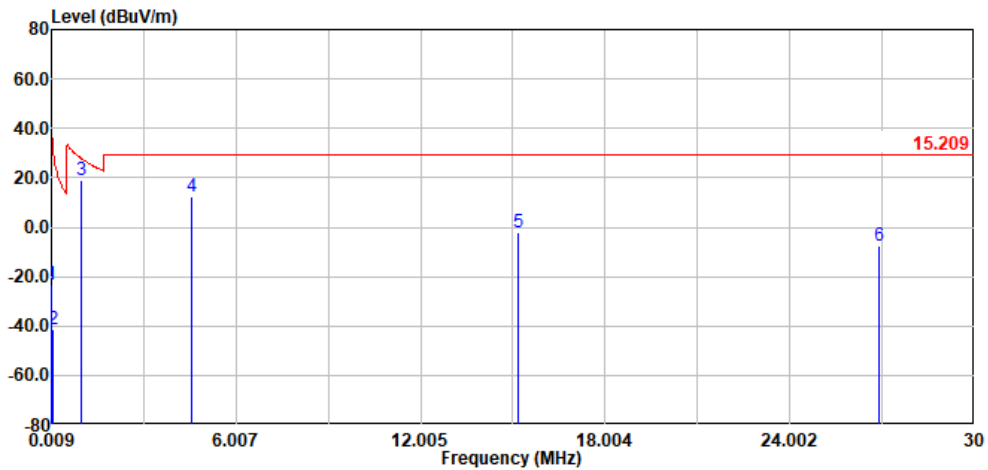


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.029	-19.53	38.25	-57.78	40.54	19.84	0.09	-80.00	---	---	Average
2	0.073	-37.74	30.29	-68.03	22.51	19.66	0.09	-80.00	---	---	Average
3	0.974	18.75	27.79	-9.04	39.14	19.52	0.09	-40.00	---	---	QP
4	4.582	11.30	29.50	-18.20	31.59	19.57	0.14	-40.00	---	---	QP
5	11.987	0.56	29.50	-28.94	20.77	19.54	0.25	-40.00	---	---	QP
6	27.525	-7.44	29.50	-36.94	12.02	20.09	0.45	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



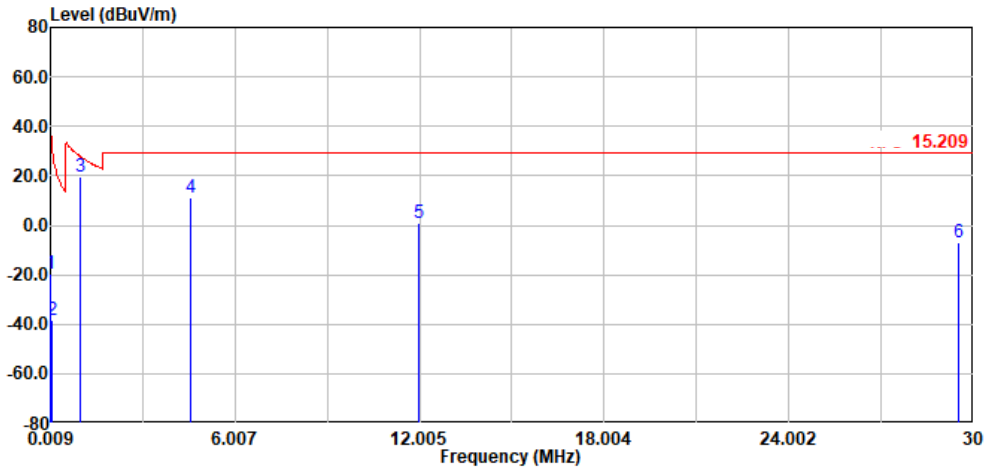
Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.029	-23.02	38.26	-61.28	37.05	19.84	0.09	-80.00	---	---	Average
2	0.077	-41.51	29.86	-71.37	18.75	19.65	0.09	-80.00	---	---	Average
3	0.973	18.84	27.80	-8.96	39.23	19.52	0.09	-40.00	---	---	QP
4	4.577	12.44	29.50	-17.06	32.73	19.57	0.14	-40.00	---	---	QP
5	15.191	-1.87	29.50	-31.37	18.26	19.57	0.30	-40.00	---	---	QP
6	26.920	-7.37	29.50	-36.87	12.16	20.03	0.44	-40.00	---	---	QP



Mode 3: 531.25KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

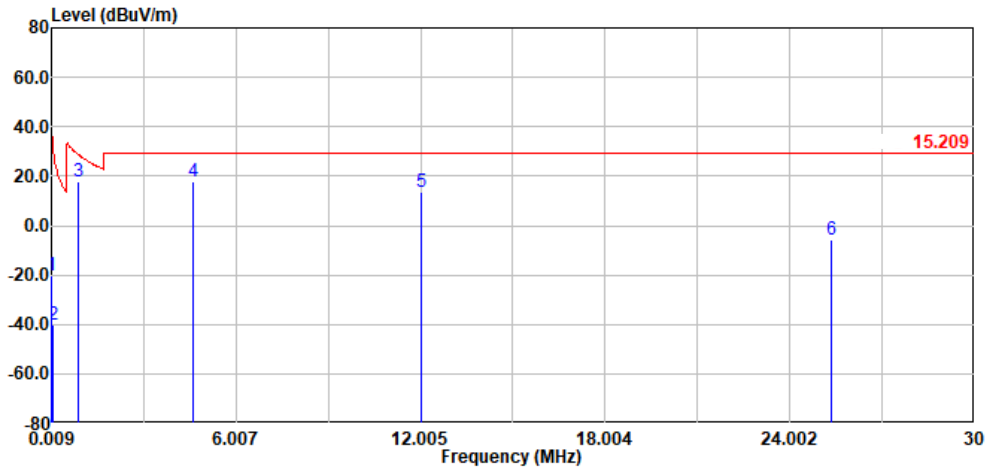


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.029	-19.58	38.26	-57.84	40.49	19.84	0.09	-80.00	---	---	Average
2	0.059	-38.31	32.24	-70.55	21.90	19.70	0.09	-80.00	---	---	Average
3	0.974	19.61	27.79	-8.18	40.00	19.52	0.09	-40.00	---	---	QP
4	4.582	11.07	29.50	-18.43	31.36	19.57	0.14	-40.00	---	---	QP
5	11.991	0.61	29.50	-28.89	20.82	19.54	0.25	-40.00	---	---	QP
6	29.529	-7.08	29.50	-36.58	12.09	20.36	0.47	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



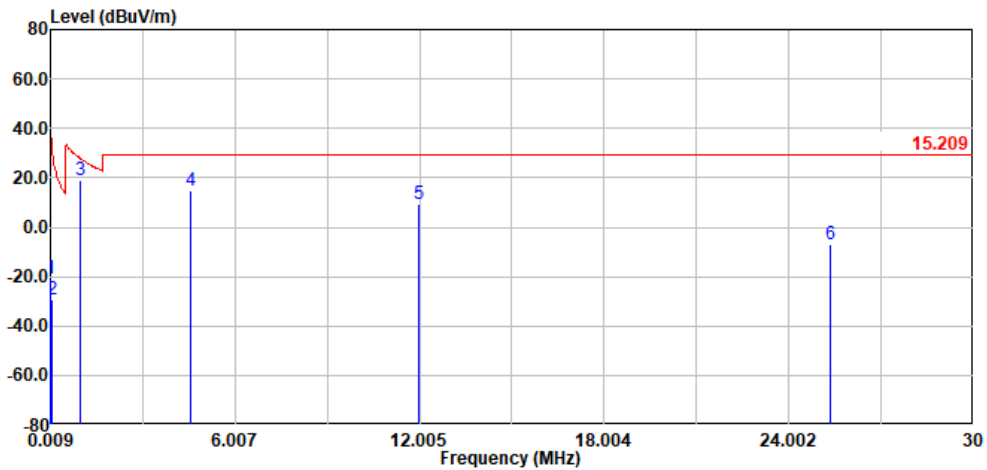
Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.029	-20.31	38.26	-58.57	39.76	19.84	0.09	-80.00	---	---	Average
2	0.073	-39.94	30.30	-70.24	20.31	19.66	0.09	-80.00	---	---	Average
3	0.880	17.75	28.68	-10.93	38.15	19.51	0.09	-40.00	---	---	QP
4	4.595	17.56	29.50	-11.94	37.85	19.57	0.14	-40.00	---	---	QP
5	12.025	13.30	29.50	-16.20	33.51	19.54	0.25	-40.00	---	---	QP
6	25.351	-6.02	29.50	-35.52	13.61	19.95	0.42	-40.00	---	---	QP



Mode 4: 593.75KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

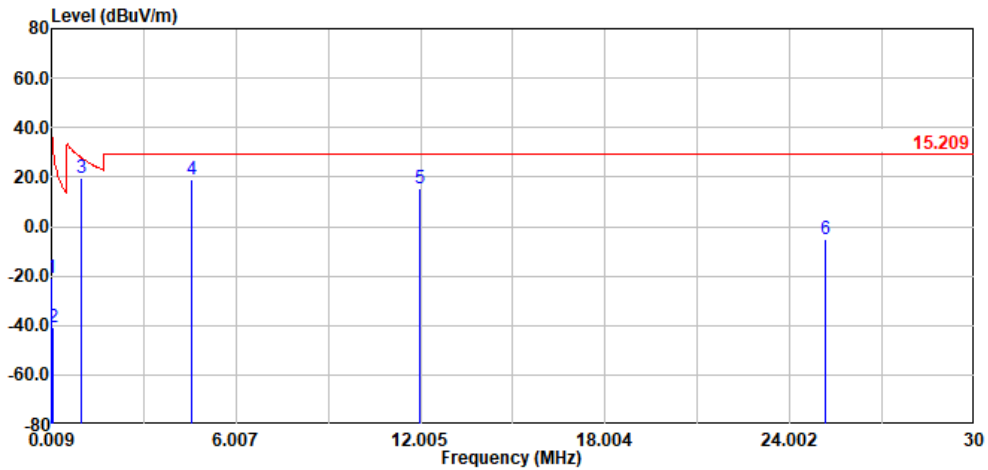


Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.031	-20.57	37.85	-58.42	39.50	19.84	0.09	-80.00	---	---	Average
2	0.062	-29.36	31.71	-61.07	30.86	19.69	0.09	-80.00	---	---	Average
3	0.975	18.80	27.78	-8.98	39.19	19.52	0.09	-40.00	---	---	QP
4	4.585	14.96	29.50	-14.54	35.25	19.57	0.14	-40.00	---	---	QP
5	11.991	9.25	29.50	-20.25	29.46	19.54	0.25	-40.00	---	---	QP
6	25.344	-6.79	29.50	-36.29	12.84	19.95	0.42	-40.00	---	---	QP



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



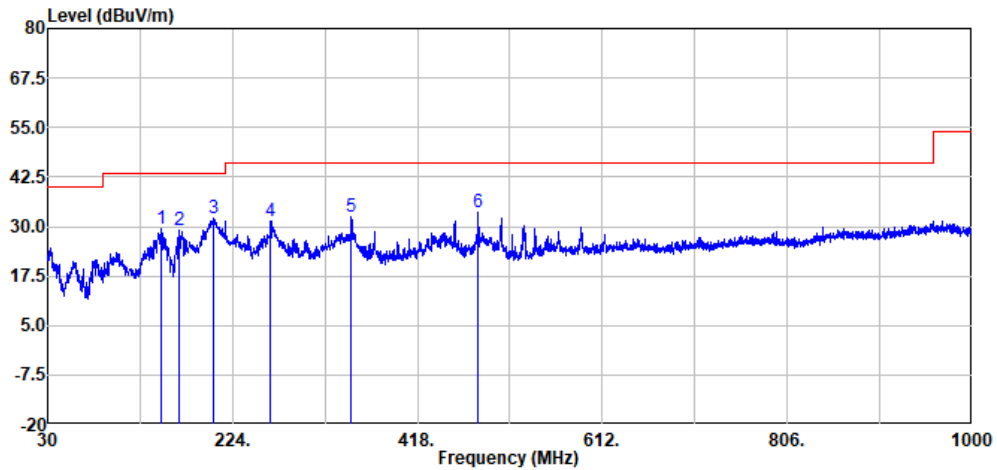
Site : 03CH07-KS
Condition: 15.209 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	0.029	-20.83	38.25	-59.08	39.24	19.84	0.09	-80.00	---	---	Average
2	0.073	-40.48	30.30	-70.78	19.77	19.66	0.09	-80.00	---	---	Average
3	0.974	19.78	27.79	-8.01	40.17	19.52	0.09	-40.00	---	---	QP
4	4.579	18.96	29.50	-10.54	39.25	19.57	0.14	-40.00	---	---	QP
5	11.982	15.46	29.50	-14.04	35.67	19.54	0.25	-40.00	---	---	QP
6	25.169	-5.35	29.50	-34.85	14.28	19.95	0.42	-40.00	---	---	QP

3.2.7 Test Result of Radiated Emission (30MHz ~ 1000MHz)

Mode 1: 666.67KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

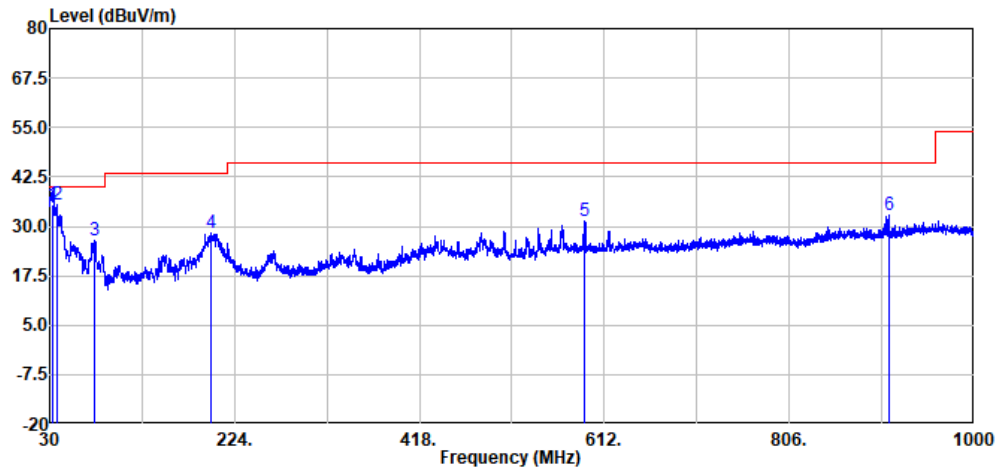


Site : 03CH07-KS
Condition: FCC CLASS B 3m CBL6111D SN 44483 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	149.310	29.25	43.50	-14.25	42.61	16.97	1.70	32.03	---	---	Peak
2	167.983	29.08	43.50	-14.42	43.60	15.72	1.80	32.04	---	---	Peak
3	204.358	32.03	43.50	-11.47	47.24	14.85	2.01	32.07	---	---	Peak
4	264.255	31.50	46.00	-14.50	41.45	19.83	2.28	32.06	---	---	Peak
5	348.645	32.28	46.00	-13.72	41.55	20.23	2.62	32.12	---	---	Peak
6	481.293	33.53	46.00	-12.47	39.19	23.48	3.09	32.23	---	---	Peak



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%

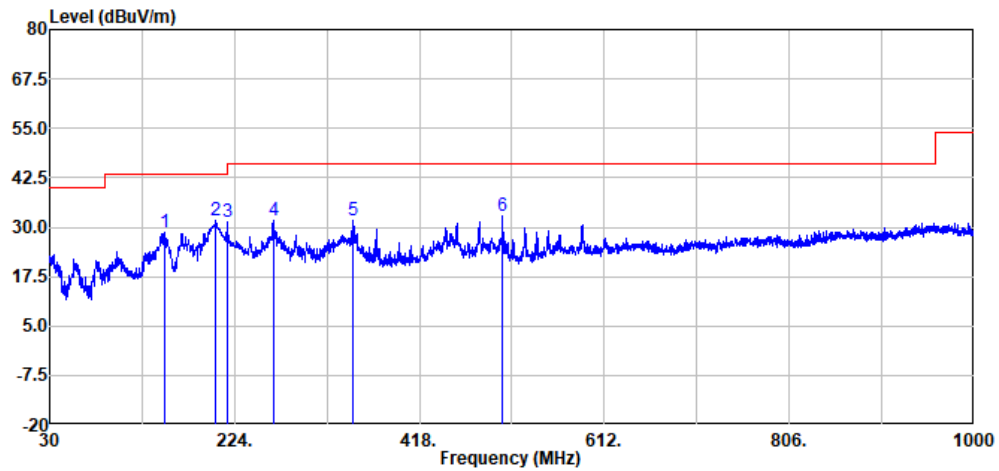


	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	33.153	35.61	40.00	-4.39	43.60	23.55	0.51	32.05	100	58	QP
2	37.518	35.29	40.00	-4.71	45.47	21.30	0.58	32.06	---	---	Peak
3	77.773	26.47	40.00	-13.53	44.13	13.29	1.12	32.07	---	---	Peak
4	198.538	28.31	43.50	-15.19	43.71	14.69	1.98	32.07	---	---	Peak
5	591.388	31.31	46.00	-14.69	34.56	25.62	3.42	32.29	---	---	Peak
6	910.033	32.77	46.00	-13.23	30.18	29.60	4.27	31.28	---	---	Peak



Mode 2: 562.5KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

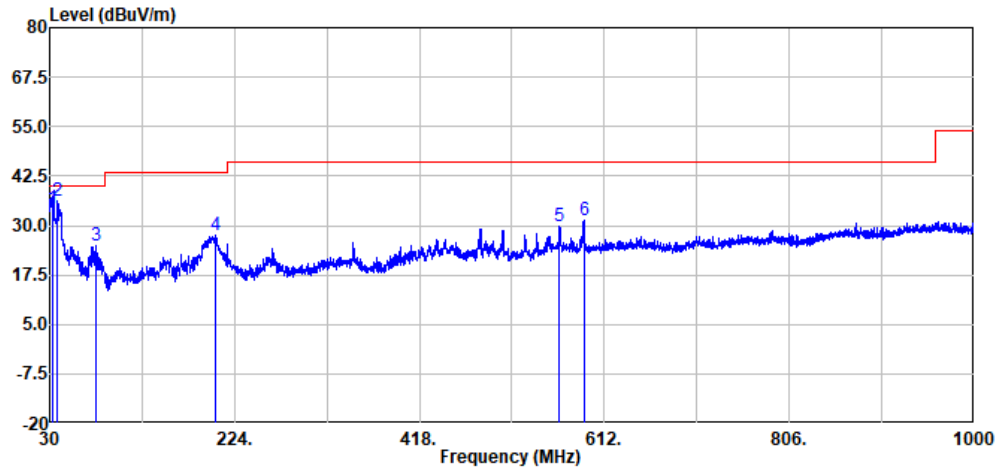


Site : 03CH07-KS
Condition: FCC CLASS B 3m CBL6111D SN 44483 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	150.523	28.49	43.50	-15.01	41.96	16.86	1.70	32.03	---	---	Peak
2	204.600	31.80	43.50	-11.70	47.00	14.86	2.01	32.07	---	---	Peak
3	216.240	31.38	46.00	-14.62	46.59	14.79	2.06	32.06	---	---	Peak
4	264.498	31.52	46.00	-14.48	41.51	19.79	2.28	32.06	---	---	Peak
5	348.645	31.76	46.00	-14.24	41.03	20.23	2.62	32.12	---	---	Peak
6	504.330	32.65	46.00	-13.35	37.90	23.85	3.16	32.26	---	---	Peak



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



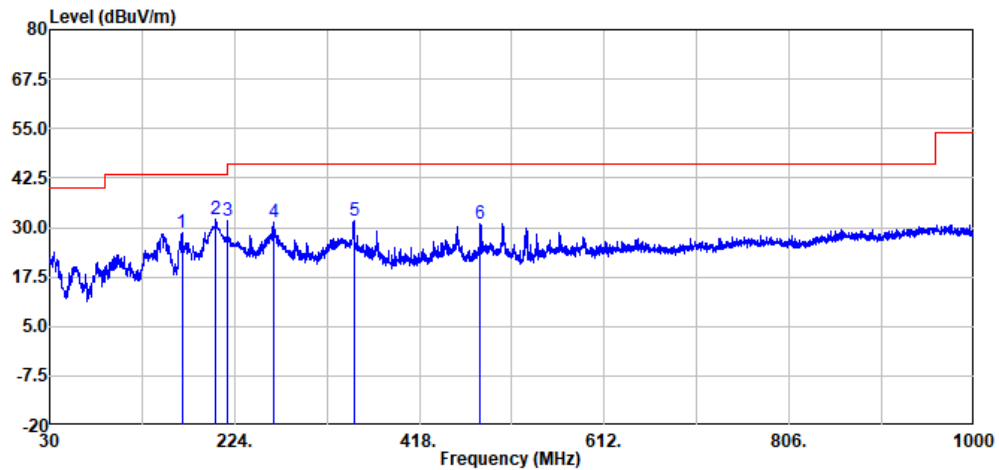
Site : 03CH07-KS
Condition: FCC CLASS B 3m CBL6111D SN 44483 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	33.638	34.43	40.00	-5.57	42.60	23.36	0.52	32.05	100	19	QP
2	38.488	36.40	40.00	-3.60	47.06	20.81	0.59	32.06	---	---	Peak
3	78.258	24.85	40.00	-15.15	42.44	13.35	1.13	32.07	---	---	Peak
4	204.600	27.36	43.50	-16.14	42.56	14.86	2.01	32.07	---	---	Peak
5	564.955	29.78	46.00	-16.22	32.67	26.08	3.34	32.31	---	---	Peak
6	590.418	31.36	46.00	-14.64	34.49	25.74	3.42	32.29	---	---	Peak



Mode 3: 531.25KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

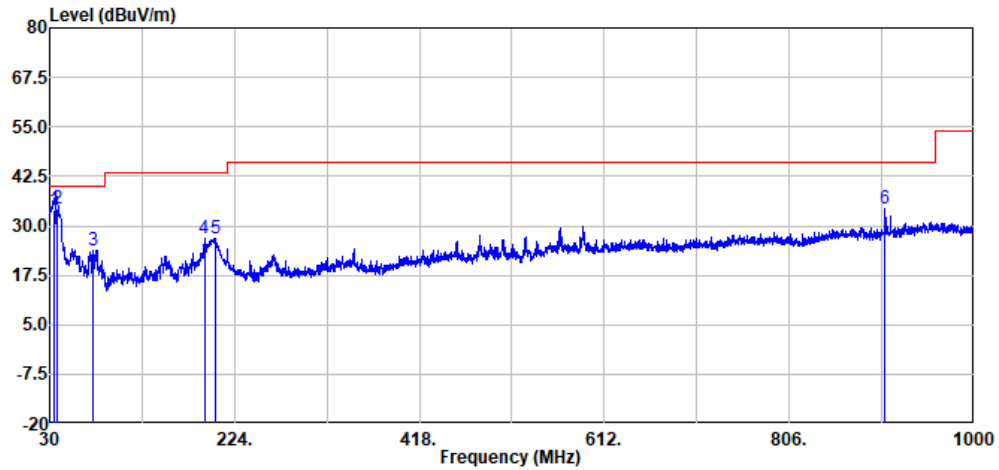


Site : 03CH07-KS
Condition: FCC CLASS B 3m CBL6111D SN 44483 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	168.710	28.79	43.50	-14.71	43.31	15.71	1.81	32.04	---	---	Peak
2	203.630	31.97	43.50	-11.53	47.19	14.84	2.01	32.07	---	---	Peak
3	216.483	31.53	46.00	-14.47	46.71	14.82	2.06	32.06	---	---	Peak
4	264.498	31.17	46.00	-14.83	41.16	19.79	2.28	32.06	---	---	Peak
5	349.615	31.85	46.00	-14.15	41.10	20.24	2.63	32.12	---	---	Peak
6	481.050	31.08	46.00	-14.92	36.74	23.48	3.09	32.23	---	---	Peak



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%

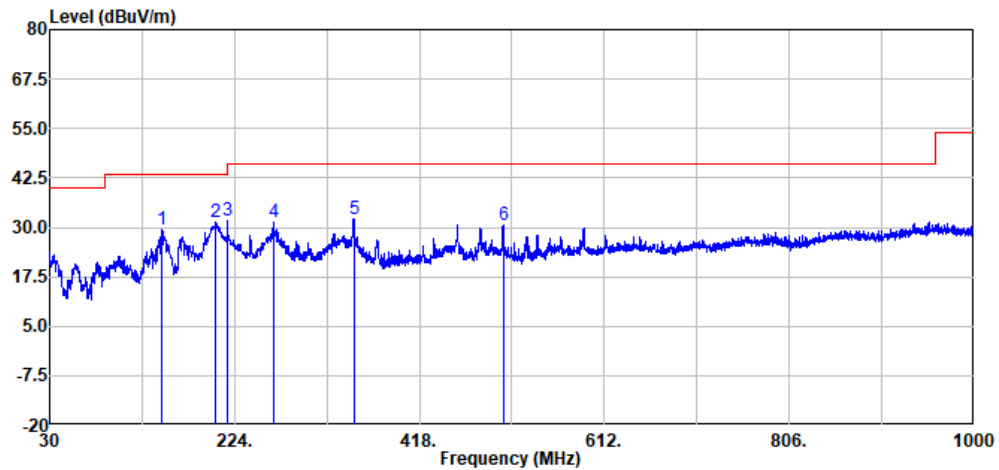


	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	34.365	33.96	40.00	-6.04	42.50	22.97	0.53	32.04	100	93	QP
2	37.760	34.33	40.00	-5.67	44.60	21.21	0.58	32.06	100	158	QP
3	75.348	23.69	40.00	-16.31	41.70	12.98	1.08	32.07	---	---	Peak
4	192.233	26.74	43.50	-16.76	42.24	14.62	1.94	32.06	---	---	Peak
5	204.358	26.94	43.50	-16.56	42.15	14.85	2.01	32.07	---	---	Peak
6	905.910	34.24	46.00	-11.76	31.90	29.40	4.26	31.32	---	---	Peak



Mode 4: 593.75KHz

Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

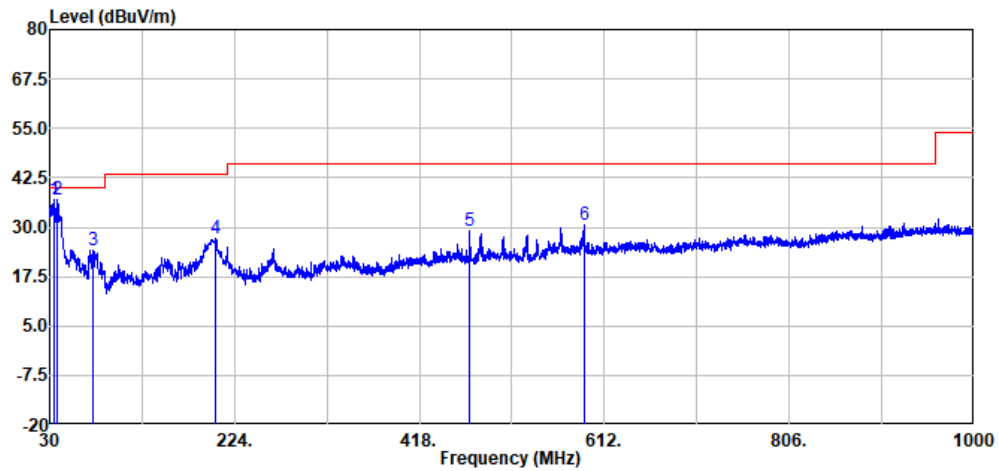


Site : 03CH07-KS
Condition: FCC CLASS B 3m CBL6111D SN 44483 Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	147.855	29.62	43.50	-13.88	42.95	17.01	1.69	32.03	---	---	Peak
2	204.358	31.36	43.50	-12.14	46.57	14.85	2.01	32.07	---	---	Peak
3	216.968	31.51	46.00	-14.49	46.64	14.87	2.06	32.06	---	---	Peak
4	265.225	31.45	46.00	-14.55	41.57	19.66	2.28	32.06	---	---	Peak
5	349.130	32.19	46.00	-13.81	41.44	20.24	2.63	32.12	---	---	Peak
6	506.513	30.68	46.00	-15.32	35.93	23.84	3.17	32.26	---	---	Peak



Test Engineer :	Moon Liu	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



Site : 03CH07-KS
Condition: FCC CLASS B 3m CBL6111D SN 44483 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	34.608	36.86	40.00	-3.14	45.56	22.81	0.53	32.04	---	---	Peak
2	38.003	36.86	40.00	-3.14	47.22	21.12	0.58	32.06	---	---	Peak
3	75.105	24.33	40.00	-15.67	42.36	12.96	1.08	32.07	---	---	Peak
4	204.358	27.30	43.50	-16.20	42.51	14.85	2.01	32.07	---	---	Peak
5	471.108	29.05	46.00	-16.95	34.88	23.33	3.06	32.22	---	---	Peak
6	590.903	30.42	46.00	-15.58	33.61	25.68	3.42	32.29	---	---	Peak

3.3 AC Conducted Emission Measurement

3.3.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

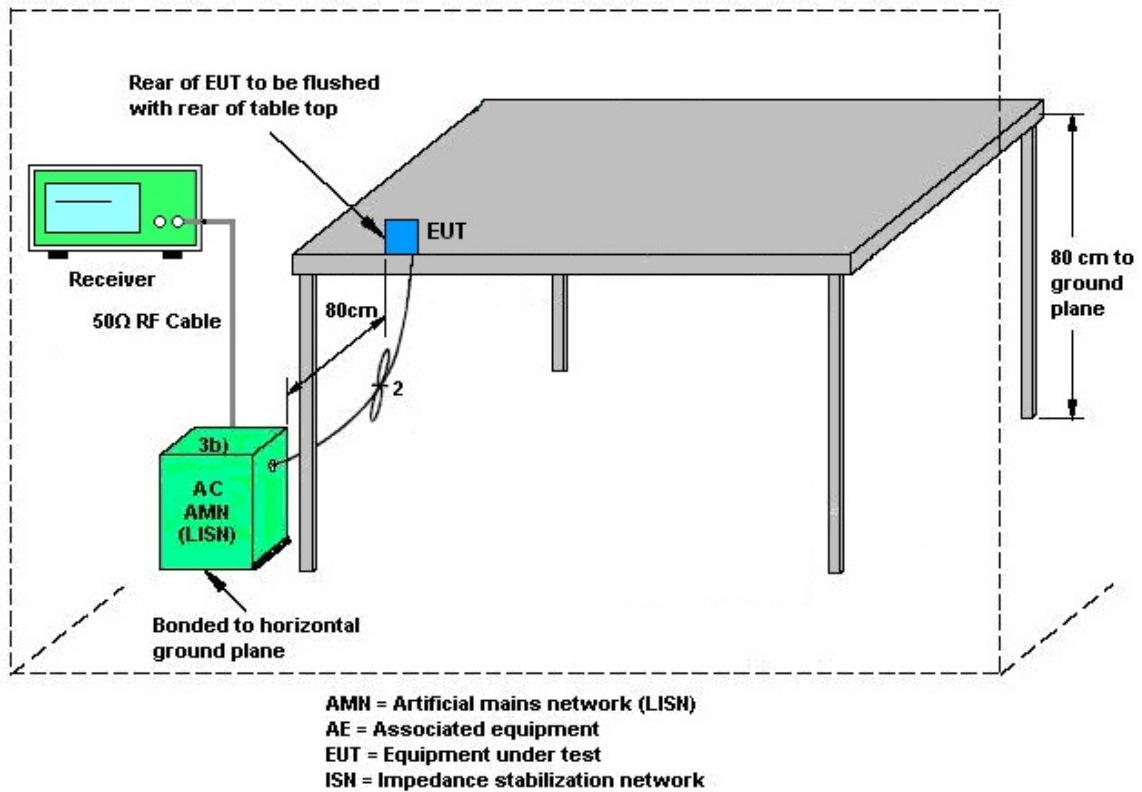
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

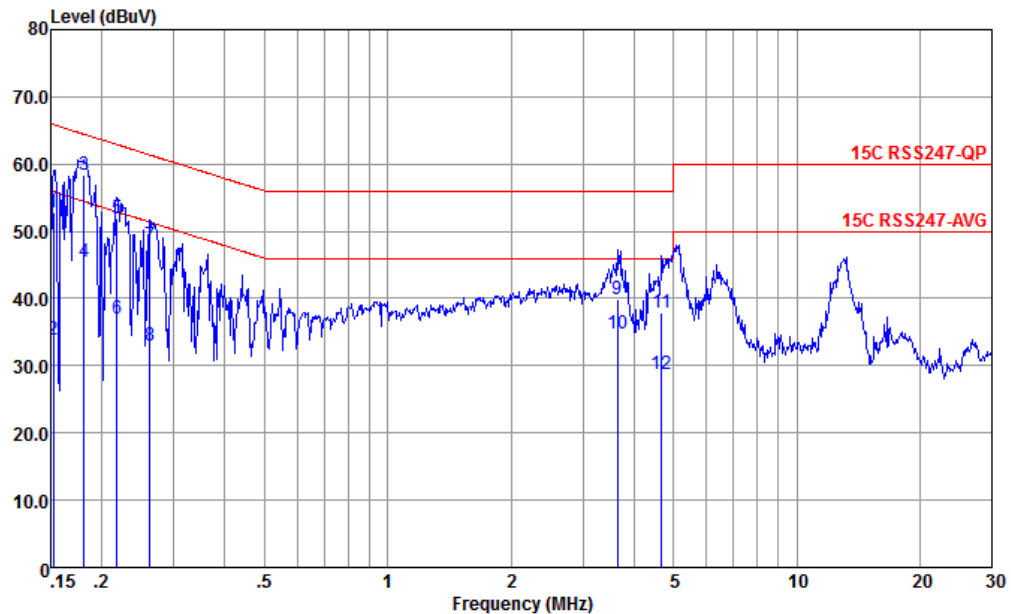
3.3.4 Test Setup





3.3.5 Test Result of AC Conducted Emission

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

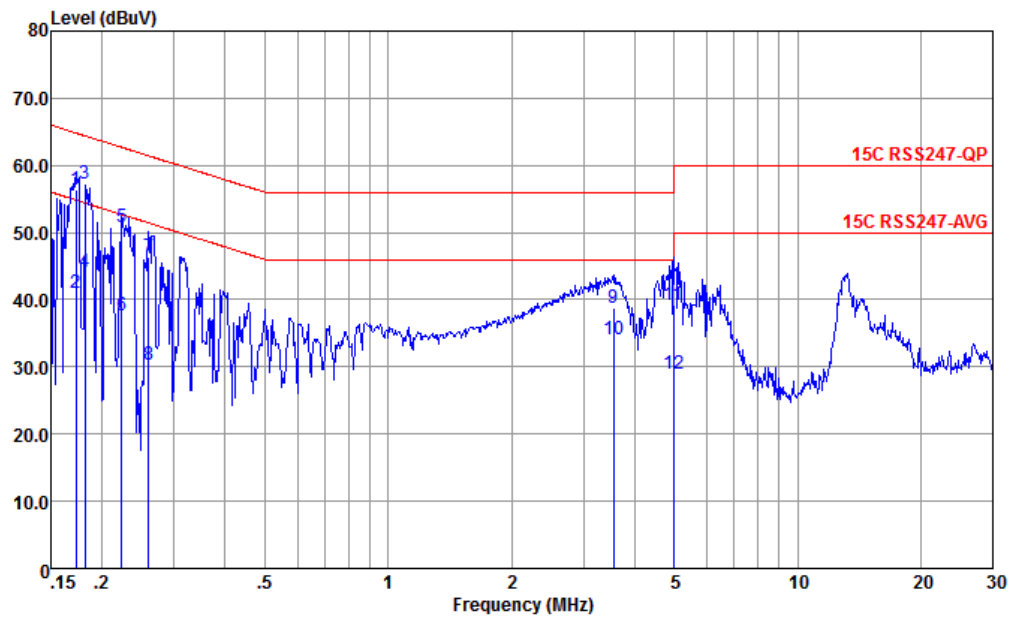


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 24+80 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.152	52.88	-12.99	65.87	42.20	0.23	10.45	QP
2	0.152	33.98	-21.89	55.87	23.30	0.23	10.45	Average
3 *	0.181	58.41	-6.05	64.46	47.70	0.25	10.46	QP
4	0.181	45.41	-9.05	54.46	34.70	0.25	10.46	Average
5	0.217	51.93	-10.99	62.92	41.21	0.26	10.46	QP
6	0.217	37.03	-15.89	52.92	26.31	0.26	10.46	Average
7	0.262	47.96	-13.42	61.38	37.20	0.29	10.47	QP
8	0.262	33.06	-18.32	51.38	22.30	0.29	10.47	Average
9	3.642	39.83	-16.17	56.00	29.21	0.41	10.21	QP
10	3.642	34.73	-11.27	46.00	24.11	0.41	10.21	Average
11	4.672	37.81	-18.19	56.00	27.20	0.41	10.20	QP
12	4.672	28.81	-17.19	46.00	18.20	0.41	10.20	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 24+80 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.173	56.30	-8.51	64.81	45.60	0.25	10.45	QP
2	0.173	40.90	-13.91	54.81	30.20	0.25	10.45	Average
3 *	0.182	57.20	-7.22	64.42	46.49	0.25	10.46	QP
4	0.182	44.10	-10.32	54.42	33.39	0.25	10.46	Average
5	0.223	50.82	-11.88	62.70	40.11	0.25	10.46	QP
6	0.223	37.62	-15.08	52.70	26.91	0.25	10.46	Average
7	0.260	46.35	-15.07	61.42	35.61	0.27	10.47	QP
8	0.260	30.35	-21.07	51.42	19.61	0.27	10.47	Average
9	3.547	38.81	-17.19	56.00	28.20	0.40	10.21	QP
10	3.547	34.11	-11.89	46.00	23.50	0.40	10.21	Average
11	4.978	39.20	-16.80	56.00	28.60	0.40	10.20	QP
12	4.978	28.90	-17.10	46.00	18.30	0.40	10.20	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



3.4 Antenna Requirements

3.4.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

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 rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Sep. 10, 2025~ Sep. 15, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Sep. 10, 2025~ Sep. 15, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Sep. 10, 2025~ Sep. 15, 2025	Jan. 01, 2026	Conducted (TH01-KS)
MXE EMI Receiver	Keysight	N9038A	MY57290151	3Hz~8.4GHz	Jul. 03, 2025	Sep. 11, 2025	Jul. 02, 2026	Radiation (03CH07-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 07, 2025	Sep. 11, 2025	Sep. 06, 2026	Radiation (03CH07-KS)
Bilog Antenna	TESEQ	CBL 6111D	49921	30MHz~1GHz	Mar. 24, 2025	Sep. 11, 2025	Mar. 23, 2026	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2025	Sep. 11, 2025	Jul. 02, 2026	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Sep. 11, 2025	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Sep. 11, 2025	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Sep. 11, 2025	NCR	Radiation (03CH07-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2025	Sep. 15, 2025	Apr. 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 19, 2025	Sep. 15, 2025	Aug. 18, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Sep. 15, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Sep. 15, 2025	Oct. 08, 2025	Conduction (CO01-KS)

NCR: No Calibration Required



5 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.384%

Uncertainty of AC Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.84dB
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Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.2dB
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