

Suzhou EUP Electric Co., Ltd.

RF TEST REPORT

Report Type:

FCC Part 15.231 RF report

Model:

VC659D may be followed by one to five characters
SCOUTPLUS may be followed by one to five characters

REPORT NUMBER:

220801610SHA-001

ISSUE DATE:

April 20, 2023



DOCUMENT CONTROL NUMBER:

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Applicant: Suzhou EUP Electric Co., Ltd.
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Factory: Suzhou EUP Electric Co., Ltd.
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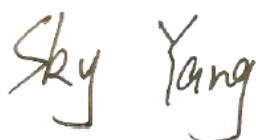
FCC ID: 2A8ST-SCOUTPLUS

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2020): Radio Frequency Devices (Subpart C)

ANSI C63.10 (2013): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
220801610SHA-001	Rev. 01	Initial issue of report	April 20, 2023

TEST REPORT**Measurement result summary**

TEST ITEM	FCC REFERENCE	RESULT
Fundamental & spurious emission & Restrict band radiated emission	15.231(b) 15.209(a) 15.205	Pass
Power line conducted emission	15.207	Pass
Emission bandwidth	15.231(c)	Pass
Transmission Time	15.231(a)(1)	Pass
Antenna requirement	15.203	Pass

Notes: 1. NA =Not Applicable

TEST REPORT**1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product Name:	Vacuum Cleaner
Model:	VC659D may be followed by one to five characters SCOUTPLUS may be followed by one to five characters
Description of EUT:	The product covered in this report is a vacuum cleaners intended for household indoor use only. The vacuum cleaner can be use with power nozzle connected with current carrying hose and extended steel. All models are same except the appearance. We test VC659D as representative and list the result in this report.
Rating:	120V, 60Hz, 12A
Category of EUT:	Class B
EUT type:	<input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample number:	0220812-01
Sample received date:	August 18, 2022
Date of test:	August 22, 2022 ~ October 28, 2022

1.2 Technical Specification

Operation Frequency:	433.9MHz
Type of Modulation:	ASK
Product Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Channel Number:	1
Antenna Designation:	PCB antenna

TEST REPORT**1.3 Description of Test Facility**

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT**2 TEST SPECIFICATIONS****2.1 Standards or specification**

47CFR Part 15 (2020)

ANSI C63.10 (2013)

2.2 Mode of operation during the test

Within this test report, EUT was tested with modulation and tested under its rating voltage and frequency.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	SKET Auto EMC Test Software	Keleto	V3.0
Radiated emission	SKET Auto EMC Test Software	Keleto	V3.0

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
-	-	-	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Fundamental & spurious emission & Restrict band radiated emission	22°C	52% RH
Power line conducted emission	24°C	54% RH
Emission bandwidth & Transmission Time	23°C	53% RH

TEST REPORT
2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESCS 30	EC 2107	2023-07-18
<input checked="" type="checkbox"/>	A.M.N.	R&S	ESH2-Z5	EC 3119	2023-11-09
<input checked="" type="checkbox"/>	Shielded room	Zhongyu	-	EC 2838	2024-01-11
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESIB 26	EC 3045	2023-07-18
<input checked="" type="checkbox"/>	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EC 6402	2024-02-14
<input checked="" type="checkbox"/>	Pre-amplifier	Tonscend	TAP01018050	EC 6432-1	2023-12-07
<input checked="" type="checkbox"/>	Horn antenna	Tonscend	BBHA9120D	EC 6432-2	2024-02-15
<input type="checkbox"/>	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2023-07-29
<input type="checkbox"/>	Active loop Antenna	Schwarzbeck	FMZB1519	EC 5345	2023-06-15
<input checked="" type="checkbox"/>	Semi-anechoic chamber	Albatross project	-	EC 3048	2023-07-08
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2024-03-05
<input type="checkbox"/>	Vector Signal Generator	Agilent	N5182B	EC 5175	2024-03-05
<input type="checkbox"/>	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2024-03-05
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESCI 7	EC 4501	2024-03-05
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Thermo-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2024-03-24
<input type="checkbox"/>	Thermo-Hygrograph	ZJ1-2A	S.M.I.F.	EC 5198	2024-03-08
<input checked="" type="checkbox"/>	Thermo-Hygrograph	ZJ1-2A	S.M.I.F.	EC 5199	2024-03-13
<input type="checkbox"/>	Thermo-Hygrograph	ZJ1-2A	S.M.I.F.	EC 5844	2024-03-08
<input checked="" type="checkbox"/>	Pressure meter	YM3	Shanghai Mengde	EC 4620	2023-09-13

TEST REPORT**2.7 Measurement uncertainty**

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	± 0.74dB
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB

TEST REPORT

3 Fundamental & Spurious Emission & Restrict band radiated emission

Test result: Pass

3.1 Limit

3.1.1 The emission shall test through the 10th harmonic or to 40GHz, whichever is lower. It must comply with the limits below:

Fundamental Frequency (MHz)	Fundamental limit (uV/m)	Spurious limit (uV/m)
<input type="checkbox"/> 40.66 – 40.70	2250	225
<input type="checkbox"/> 70 – 130	1250	125
<input type="checkbox"/> 130 - 174	1250 to 3750	125 to 375
<input type="checkbox"/> 174 - 260	3750	375
<input checked="" type="checkbox"/> 260 – 470	3750 to 12500	375 to 1250
<input type="checkbox"/> Above 470	12500	1250

The formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = $56.81818(\text{Frequency}) - 6136.3636$; for the band 260-470 MHz, uV/m at 3 meters = $41.6667 * (\text{Frequency}) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For that the EUT use fundamental frequency of 433.90MHz, after calculation, the limit is:

Fundamental limit = $41.6667 * 433.90 - 7083.3333 = 10995.85 \text{ uV/m} = 80.8 \text{ dBuV/m}$

Spurious limit = $80.8 - 20 = 60.8 \text{ dBuV/m}$

//////////

3.1.2 The radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) showed as below:

Frequency (MHz)	Field Strength (dBuV/m)	Measurement Distance (m)
30 - 88	40.0	3
88 - 216	43.5	3
216 - 960	46.0	3
Above 960	54.0	3

TEST REPORT**3.2 Measurement Procedure****For Radiated emission below 30MHz:**

- a) The EUT was placed on the top of a rotating table 0.1 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) Both X and Y axes 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:

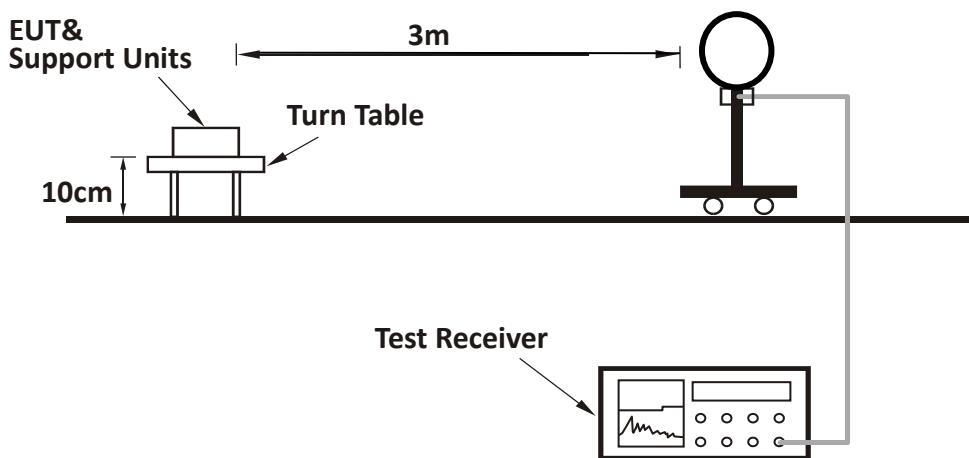
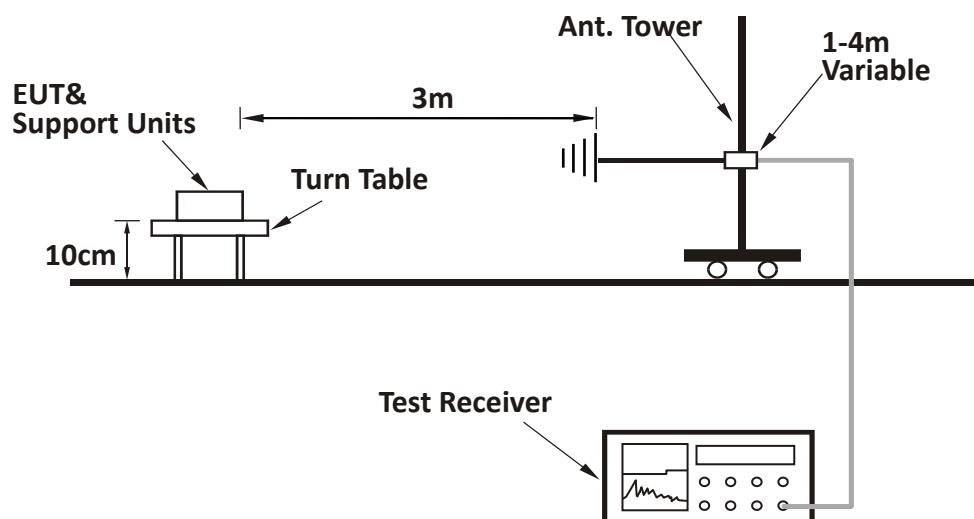
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

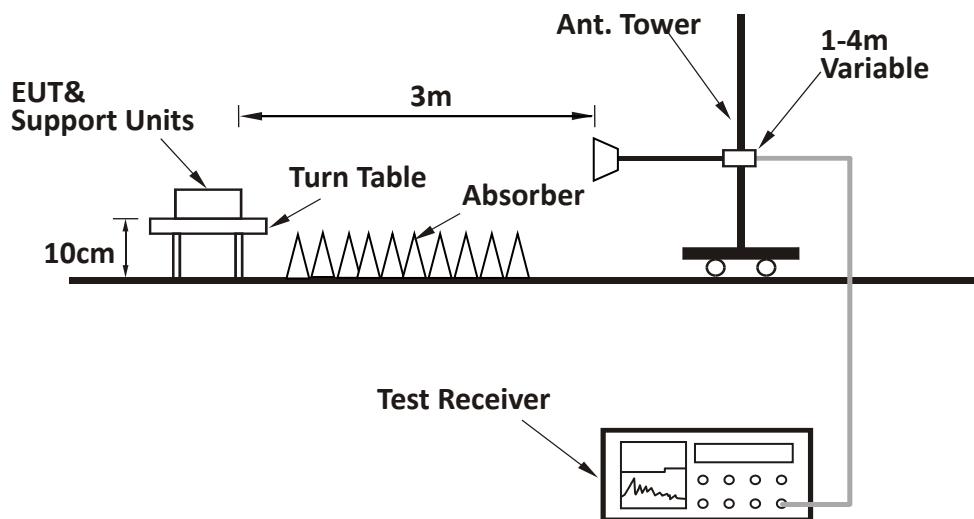
For Radiated emission above 30MHz:

- a) The EUT was placed on the top of a rotating table 0.1 meters (for 30MHz ~ 1GHz) / 0.1 meters (for above 1GHz) 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 detect 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:

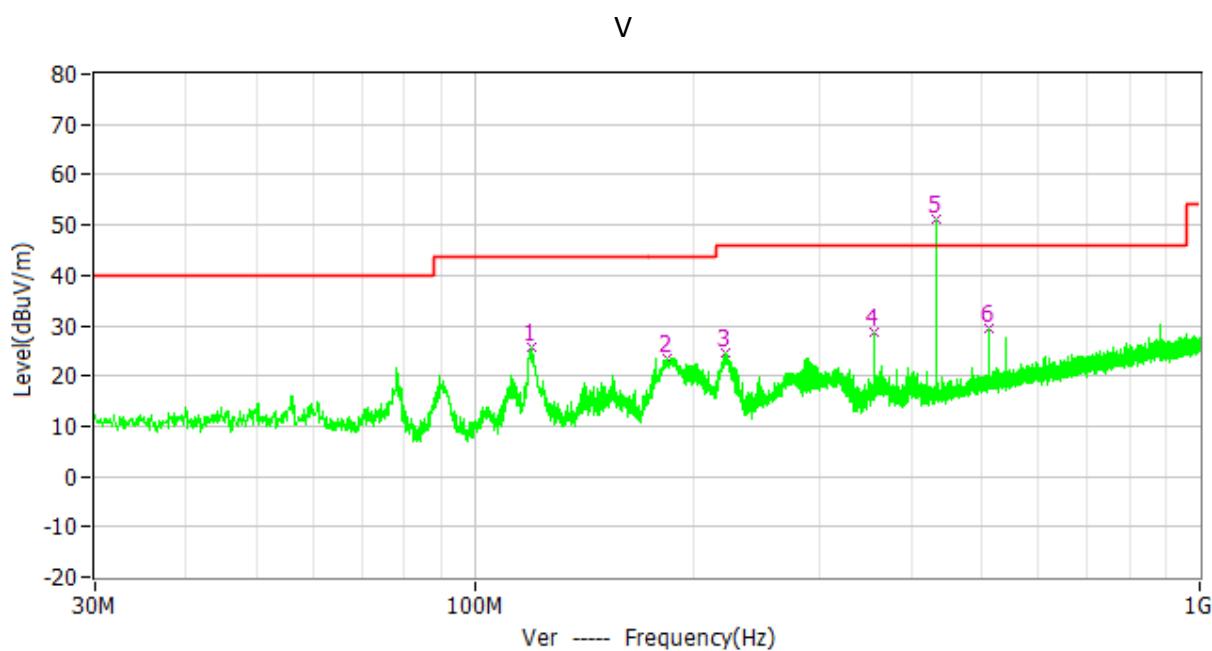
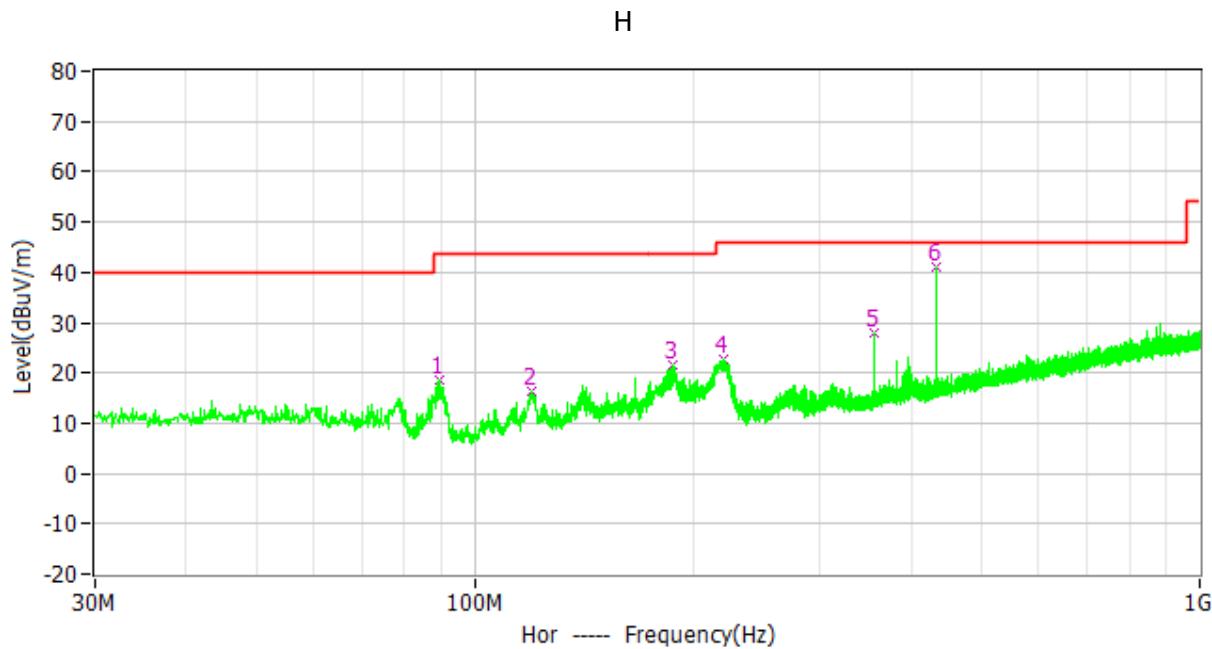
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or $3 \times RBW$ (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

TEST REPORT**3.3 Test Configuration****For Radiated emission below 30MHz:****For Radiated emission 30MHz to 1GHz:**

TEST REPORT**For Radiated emission above 1GHz:**

TEST REPORT**3.4 Test Results of Radiated Emissions**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



TEST REPORT
Test data:

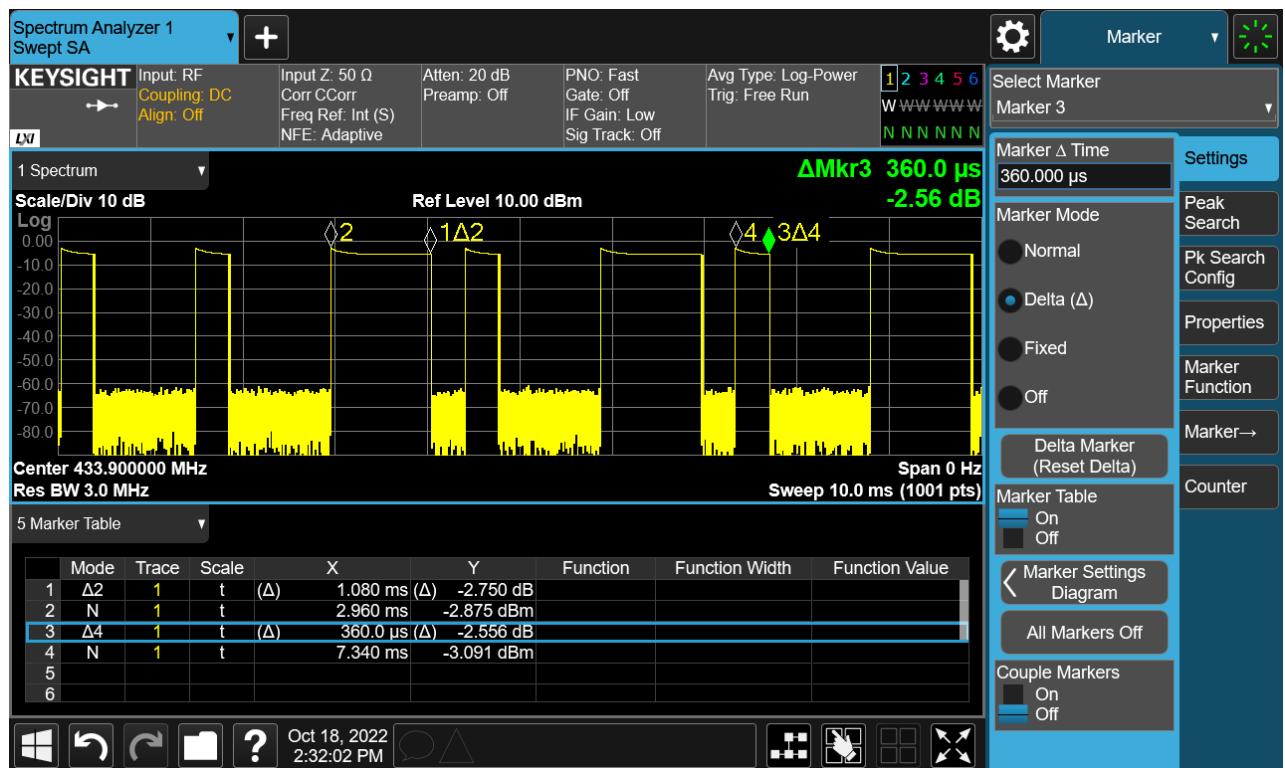
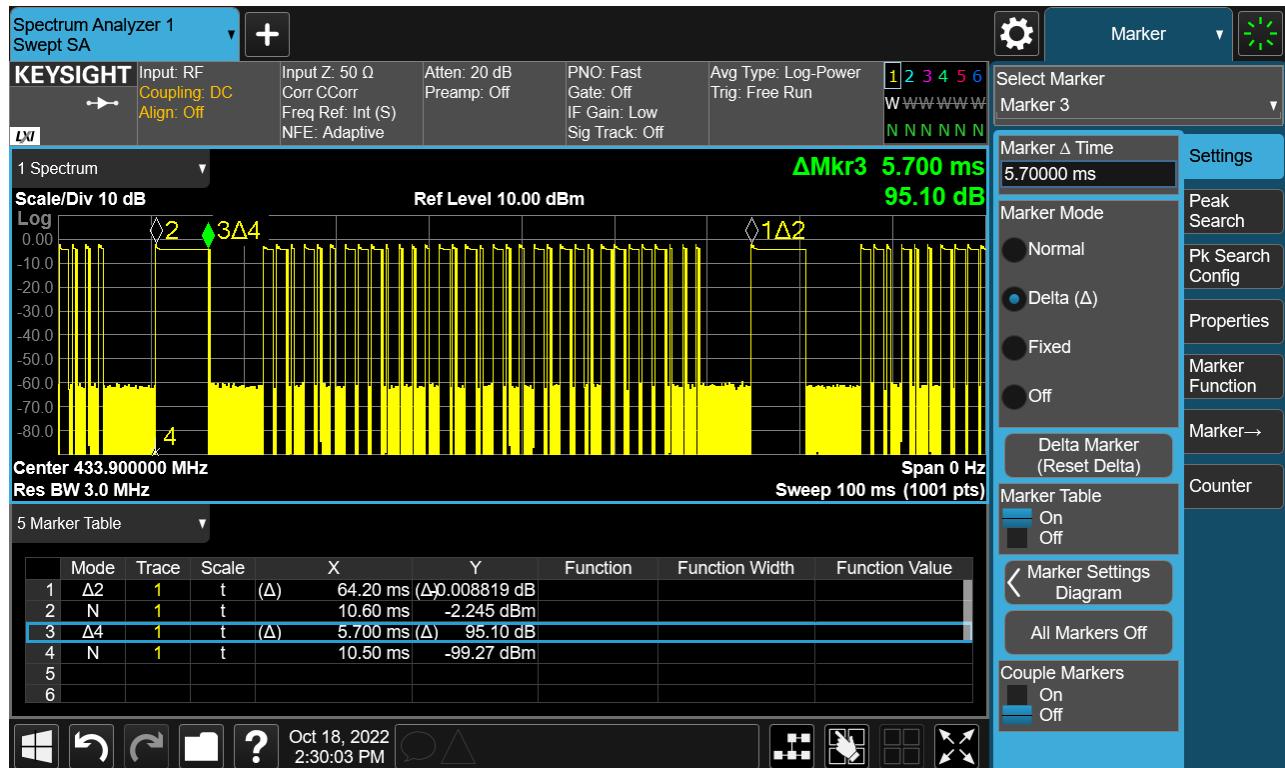
Polarization	Frequency (MHz)	Limits (dB μ V/m)	Corrected Reading (dB μ V/m)	Margin (dB)	Detector
H	89.36	43.5	18.4	25.1	PK
	119.62	43.5	16.5	27.0	PK
	188.01	43.5	21.4	22.1	PK
	220.70	46.0	22.8	23.2	PK
	355.04	46.0	28.0	18.0	PK
	433.90	100.8	42.1	58.7	PK
	1301.70	74.0	38.7	35.3	PK
V	120.11	43.5	25.6	17.9	PK
	184.52	43.5	23.6	19.9	PK
	221.96	46.0	24.5	21.5	PK
	355.04	46.0	28.7	17.3	PK
	433.90	100.8	51.3	49.5	PK
	512.86	46.0	29.4	16.6	PK
	1301.70	74.0	41.2	32.8	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
 2. Corrected Reading = Original Receiver Reading + Correct Factor
 3. Margin = Limit - Corrected Reading
 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
 Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dB μ V,
 Limit = 40.00dB μ V/m.
 Then Correct Factor = $30.20 + 2.00 - 32.00 = 0.20$ dB/m;
 Corrected Reading = 10 dB μ V + 0.20 dB/m = 10.20 dB μ V/m;
 Margin = 40.00 dB μ V/m - 10.20 dB μ V/m = 29.80 dB.

TEST REPORT
Duty Cycle:

The test data with maximum duty cycle was listed below.

The worst Duty cycle= $(0.36*17+1.08*16+5.7) / 64.2 = 29.1/64.2=0.45$


TEST REPORT

Calculating the AV value according to the duty cycle

Antenna	Frequency (MHz)	PK Reading (dBuV/m)	Correct Factor (dB)	AV Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)
H	433.90	42.1	-6.94	35.16	80.8	45.64
H	1301.70	38.7		31.76	54.0	22.24
V	433.90	51.3		44.36	80.8	36.44
V	1301.70	41.2		34.26	54.0	19.74

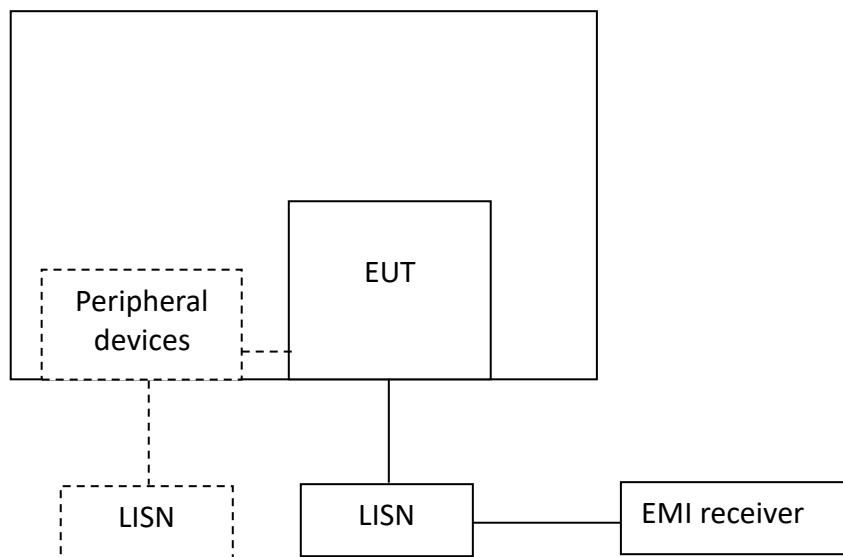
Remark:

1. Correct Factor = $20\lg(\text{duty cycle}) = 20\lg(0.45) = -6.94$;
2. AV Reading = PK Reading + Correct Factor;
3. Margin = limit - AV Reading.

TEST REPORT**4 Power line conducted emission****Test result:** Pass**4.1 Limit**

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
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.

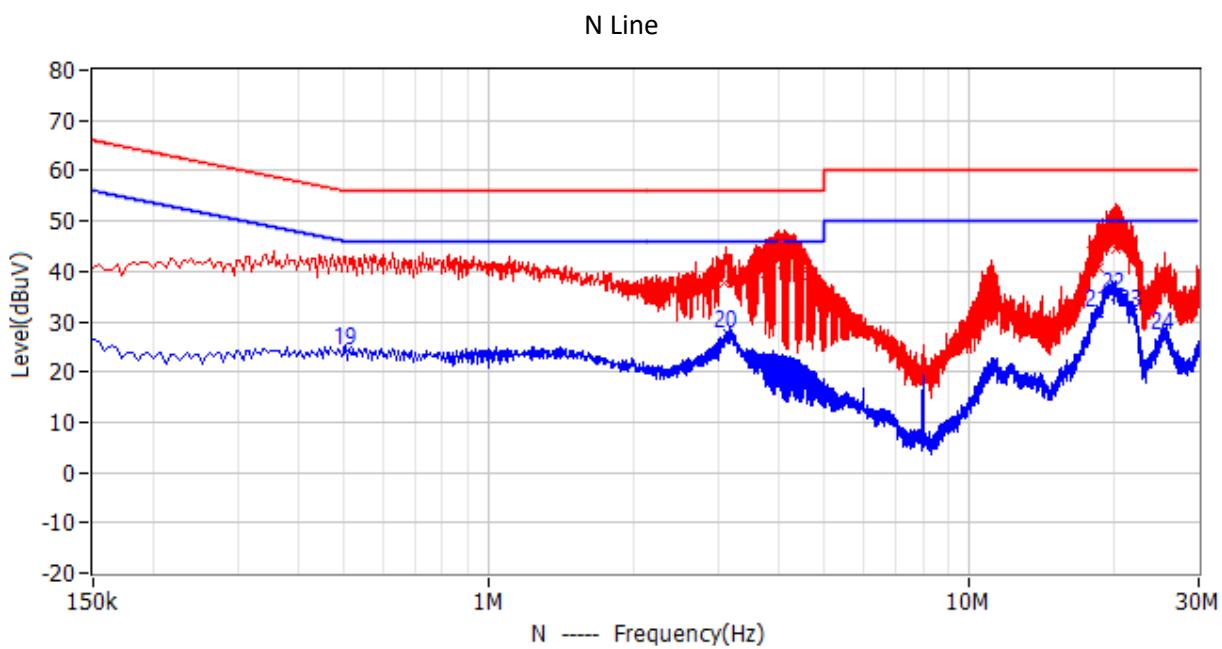
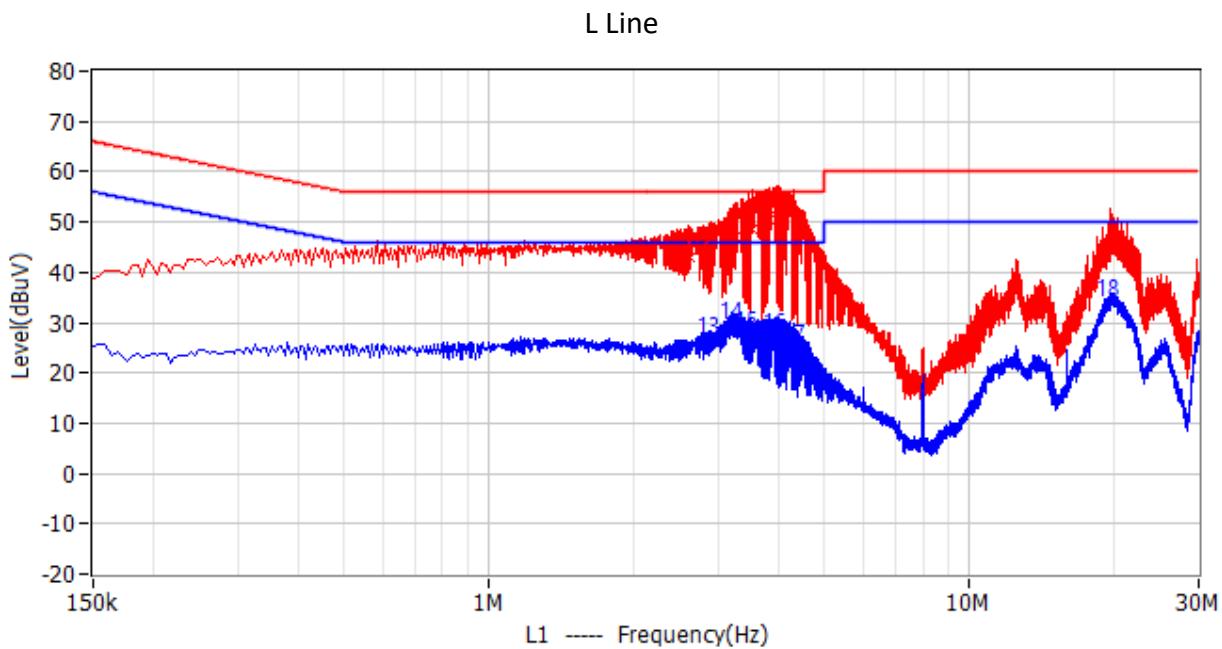
4.2 Test Configuration

TEST REPORT**4.3 Measurement Procedure**

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

TEST REPORT**4.4 Test Results of Power line conducted emission****Test Voltage: 120VAC/60Hz**

TEST REPORT
Test Data:

Frequency	Limit dBuV	Level dBuV	Delta dB	Detector	Phase
2.634MHz	56.0	42.8	-13.2	QP	L1
2.886MHz	56.0	43.7	-12.3	QP	L1
3.251MHz	56.0	47.1	-8.9	QP	L1
3.525MHz	56.0	48.6	-7.4	QP	L1
3.975MHz	56.0	50.5	-5.5	QP	L1
4.412MHz	56.0	47.3	-8.7	QP	L1
3.093MHz	56.0	37.8	-18.2	QP	N
3.759MHz	56.0	39.6	-16.4	QP	N
4.070MHz	56.0	41.4	-14.6	QP	N
4.457MHz	56.0	39.3	-16.7	QP	N
18.632MHz	60.0	40.6	-19.4	QP	N
20.207MHz	60.0	44.6	-15.4	QP	N
2.900MHz	46.0	26.6	-19.4	CAV	L1
3.215MHz	46.0	29.6	-16.4	CAV	L1
3.476MHz	46.0	27.7	-18.3	CAV	L1
3.975MHz	46.0	27.3	-18.7	CAV	L1
4.362MHz	46.0	25.1	-20.9	CAV	L1
19.613MHz	50.0	34.1	-15.9	CAV	L1
505.500kHz	46.0	24.1	-21.9	CAV	N
3.152MHz	46.0	27.7	-18.3	CAV	N
18.605MHz	50.0	31.6	-18.4	CAV	N
20.256MHz	50.0	35.2	-14.8	CAV	N
21.903MHz	50.0	31.6	-18.4	CAV	N
25.548MHz	50.0	27.2	-22.8	CAV	N

Remark:

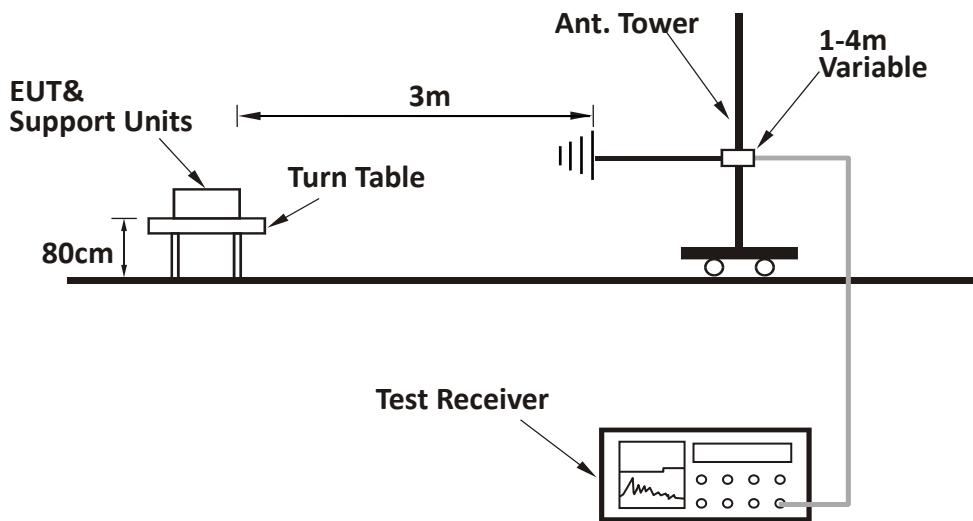
1. *Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.*
2. *Level = Original Receiver Reading + Correct Factor*
3. *Delta = Level - Limit*
4. *If the PK Level is lower than AV limit, the AV test can be elided.*

TEST REPORT

5 Emission Bandwidth

Test result: Pass

5.1 Test Configuration



5.2 Limit

The bandwidth of the emission shall be no wider than 0.25 % of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900 MHz, the 99% bandwidth shall be less or equal to 0.5% of the center frequency.

The limit for the EUT = $0.25\% * 433.90 \text{ MHz} = 1085 \text{ kHz}$

5.3 Measurement Procedure

The EUT and simulators were placed on a 0.8m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The central frequency of test receiver was set near the operating frequency of EUT.

The test was conducted using the Spectrum Analyzer with the resolutions bandwidth set at 10kHz, the video bandwidth set at 30kHz.

TEST REPORT

5.4 The results

Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
433.90	50.78	219.92
Limit	1085	1085
Result	Complied	Complied



TEST REPORT

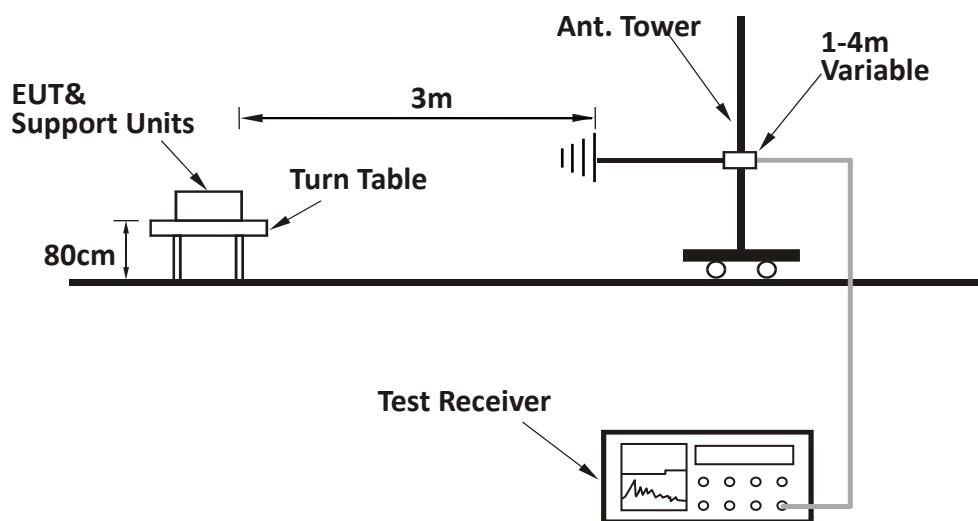
6 Deactivating time

Test result: Pass

6.1 Test limit

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.
- (5) Transmission of set-up information for security systems may exceed the transmission duration limits in (1) and (2) above, provided such transmission are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

6.2 Test Configuration



TEST REPORT

6.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber.

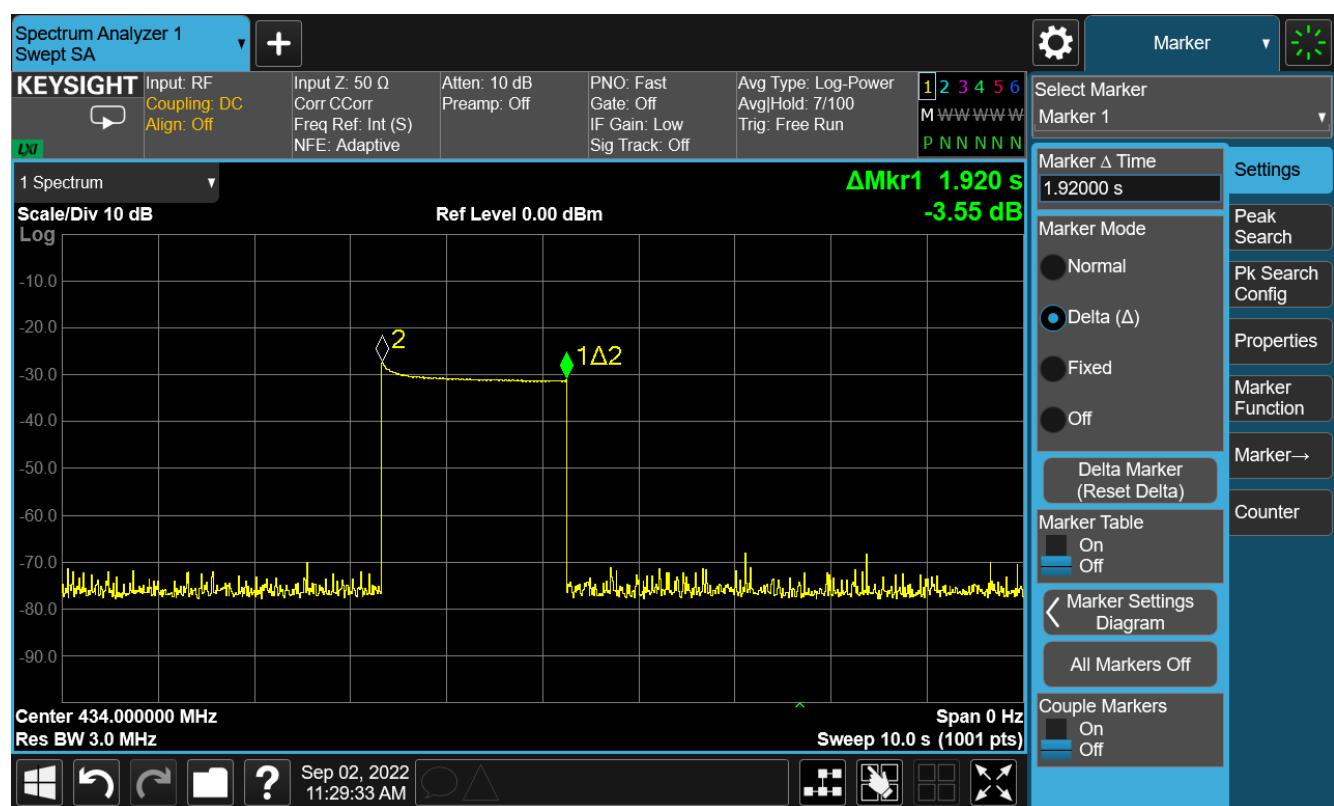
The central frequency of test receiver was set as the operating frequency of EUT and the Span was set as 0.

The EUT was switched once. The test receiver recorded the whole time from the triggered moment to the time of stopping radiating. For manual switching, to avoid uncertainty, the operating above would be repeated five times and the worst data is recorded.

6.4 Test protocol

Whole time from the triggered moment to the time of stopping radiating: 1.92s.

As a result, the EUT complies with the limit of 5s' deactivating time.



TEST REPORT

7 Antenna requirement

Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Result:

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

***** END *****