



No.: FCCSZ2024-0058-RF3

TEST REPORT

FCC ID	:	2AYHY-GS601
NAME OF SAMPLE	:	Vape Detector
APPLICANT	:	Xiamen Milesight IoT Co., Ltd.
CLASSIFICATION OF TEST	:	N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Page 2 of 32

Applicant			Buildir	lilesight loT Co., ng C09, Softwar , China		l, Xiamen 361024,
Manufacturer		Name: Xiamen Milesight IoT Co., Ltd. Address: Building C09, Software Park Phase III, Xiamen 361024 Fujian, China			l, Xiamen 361024,	
Equipment Un	ider Test	Name: Vape Detector Model/Type: GS601-915M Additional Model/Type: See Section 2.2 Brand: Milesight Serial No.: N/A Sample No.: 3-1				
Date of Receipt.	202	4-08-06		Date of Testing	2024-08-00	6 \sim 2024-10-18
Test Specification		Test Result				
FCC Part 15, S	Subpart C, Sec	tion 15.249			PASS	
		The e	equipm	ent under test v	as found to cor	nply with the
		requirements of the standards applied.				
Evaluation of Test	Result				S	Seal of CVC
					lssue	Date: 2024-10-18
Compiled by:		Reviewed b	by:		Approved by:	
Zhu Vi		0	Uo X	ianbiao	Y	15
Zhu Yulir Name	Signature	Mo Xianbiao Dong Sa		g Sanbi Signature		
Other Aspects: No	ONE.	Name	;	Signature	Name	Oignature
Abbreviations:OK, Pass	= passed	Fail = failed	N/A=	not applicable	EUT= equipment, san	nple(s) under tested

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



Test Report No.: FCCSZ2024-0058-RF3

Page 3 of 32

TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 TEST LOCATION	5
1.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS	
1.3 MEASUREMENT UNCERTAINTY	
1.4 TEST LOCATION	8
2 GENERAL INFORMATION	9
2.1 GENERAL PRODUCT INFORMATION	9
2.2 ADDITIONAL MODEL/TYPE	
2.3 DESCRIPTION OF ACCESSORIES	
2.4 CHANNEL FREQUENCY	
2.5 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	11
2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS	13
2.7 DESCRIPTION OF SUPPORT UNITS	
3 TEST TYPES AND RESULTS	14
3.1 CONDUCTED EMISSION MEASUREMENT	
3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT	17
3.3 20db BANDWIDTH MEASUREMENT	27
3.4 ANTENNA REQUIREMENT	30
4 PHOTOGRAPHS OF TEST SETUP	31



Page 4 of 32

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0058-RF3	Original release	2024-10-18

Test Report No.: FCCSZ2024-0058-RF3

Page 5 of 32

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FO	C Part 15 Subpart	C
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit
15.249(a) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
15.249(d)	Out of band emissions	PASS	Meet the requirement of limit.
15.215(c)	20dB bandwidth	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Meet the requirement of limit.

1.1 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805 Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn FCC(Test firm designation number: CN1363) IC(Test firm CAB identifier number: CN0137)

Page 6 of 32

1.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2025/4/28
#3Shielding room	MORI	443	N/A	3 year	2026/5/16
Wideband radio communication					
tester	Rohde&Schwarz	CMW 500	168778	1 year	2025/5/24
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2025/4/27
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2025/4/27
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	20E8060261	1 year	2025/4/28
Temperature and humidity meter	/	C193561457	C193561457	1 year	2025/4/27
Conducted emission Test					
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025/5/24
limiter (10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2025/5/15
Voltage probe	Rohde&Schwarz	CVP9222C	28	1 year	2025/4/27
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2025/4/28
ISN network	Rohde&Schwarz	ENV 81	100401	1 year	2025/4/28
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2025/4/28
#1Shielding room	MORI	854	N/A	3 year	2026/5/16
LISN	SCHWARZBECK	NSLK 8129	5021	1 year	2025/4/27
Temperature and humidity meter		C193561430	C193561430	1 year	2025/4/27
Radiation Spurious Test - 3M Cha				,	
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2025/4/28
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025/4/28
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2025/2/20
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2025/2/4
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2025/3/24
3m anechoic chamber	MORI	966	CS0300011	3 year	2026/5/18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2025/4/28
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2025/4/28
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2025/4/28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025/4/28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2025/4/28
Preamplifier(18GHz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2025/4/28
Temperature and humidity meter	/	C193561517	C193561517	1 year	2025/4/27
Radiation Spurious Test - 3M Cha	amber #1				
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2025/5/24
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	01132	1 year	2025/5/27
Horn antenna(1GHz-18GHz)	ETS	3117	227634	1 year	2025/3/25
Horn antenna(18GHz-40GHz)	SCHWARZBECK	BBHA 9170	01003	1 year	2025/3/25
3m anechoic chamber	MORI	966	CS0200019	3 year	2026/5/18
LISN (single-phase)	Rohde&Schwarz		102152/102156	1 year	2025/4/27
Preamplifier(10kHz-1GHz)	Rohde&Schwarz		100298	1 year	2025/4/28
Attenuator	1	SJ-5dB	607684	1 year	2025/2/4
#1 control room	MORI	433	CS0300028	3 year	2026/5/17
Temperature and humidity meter	UNI-T	A10T	C193561473	1 year	2025/4/27

Test Report No.: FCCSZ2024-0058-RF3

Page 7 of 32

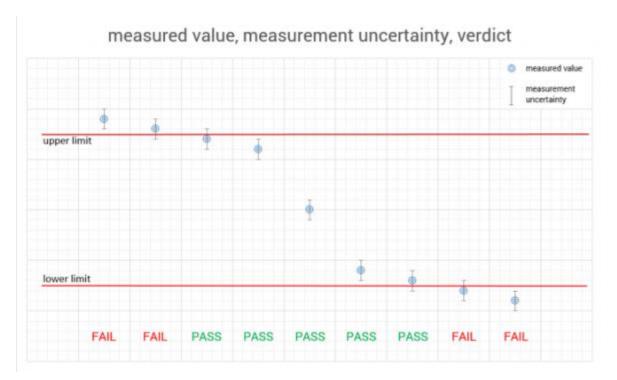
1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	ltem	Measurement Uncertainty
1	Conducted emission test	+/-2.7 dB
2	Radiated emission 9kHz-30MHz	+/-5.6 dB
3	Radiated emission 30MHz-1GHz	+/-4.6 dB
4	Radiated emission 1GHz-18GHz	+/-4.4 dB
5	Radiated emission 18GHz-40GHz	+/-5.1 dB
6	RF power	+/-0.9 dB
7	Power Spectral Density	+/-0.8 dB
8	Conducted spurious emissions	+/-2.7 dB
9	Transmission Time	+/-0.27%
10	Occupied Bandwidth	+/-1.86%
Rema	rk: 95% Confidence Levels, k=2.	

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.





Page 8 of 32

1.4 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

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Test Report No.: FCCSZ2024-0058-RF3

Page 9 of 32

2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	Vape Detector	
BRAND	Milesight	
MODEL	GS601-915M	
ADDITIONAL MODEL	See Section 2.2	
	1. DC 5V From USB	
POWER SUPPLY (Remark 6)	2. DC 48V From POE	
	3. DC 5V From PoE Splitter	
MODULATION TYPE	CW	
OPERATING FREQUENCY	Radar: 5727MHz ~ 5873MHz	
NUMBER OF CHANNEL	3651	
PEAK OUTPUT POWER (Remark 7)	-8.14dBm	
ANTENNA TYPE (Remark 3)	PCB Antenna, 2.5dBi Gain	
HARDWARE VERSION 1	GS06-00-V1.1(POE)	
HARDWARE VERSION 2	GS06-00-V1.1	
SOFTWARE VERSION	GS601.0000.0100.0101	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB Cable, unshielded, 1.2m	

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. EUT photo refer to the report (Report NO.: FCCSZ2024-0048-EUT1).
- 4. Please refer to the antenna report.
- 5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 6. EUT is divided into two versions with POE power supply and without POE power supply. Hardware version 1 is divided into POE power supply version, and hardware version 2 is divided into non-POE power supply version.
- 7. EIRP(-8.14dBm)= 87.06dBuV/m 95.2, for d=3m.

2.2 ADDITIONAL MODEL/TYPE

Main Model	Serial Model	Difference
GS601-915M	GS601-868M/915M, NI601-868M/915M,	The only differences are the label and
G3001-915M	NI601-915M, GS601, NI601	model.

Page 10 of 32

2.3 DESCRIPTION OF ACCESSORIES

DC Adapter		
Brand	N/A	
Model No.:	FJ-SW2050501000U	
Input:	100-240V ~ 50/60Hz 0.25A max	
Output:	5V == 1A	
SN	N/A	
DC Cable:	N/A	

PoE Splitter (Optional)		
Brand	N/A	
Model No.:	TYPEC0502	
Input:	DC37-57V	
Output:	5V/2.4A	
SN	062405033569	

2.4 CHANNEL FREQUENCY

Operation Frequency Each of Channel		
Channel	Freq. (MHz)	
0	5727	
1	5727.04	
1824	5799.96	
1825	5800	
3649	5872.96	
3650	5873	

1. The channel interval is 0.04MHz.

2. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefor only the data of the test channels were recorded in this report.

Test Report No.: FCCSZ2024-0058-RF3

Page 11 of 32

2.5 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, xyz axis and antenna ports

EUT	APF	PLICABLE	TEST ITE	EMS				
CONFIGURE MODE	RE<1G	RE≥1G	PLC	APCM	DESCRIPTION			
А	\checkmark	\checkmark	\checkmark	\checkmark	Radar			

Where RE<1G: Radiated Emission below 1GHz PLC: Power Line Conducted Emission **RE>1G:** Radiated Emission above 1GHz **APCM:** Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE
А	0 to 3650	0	CW	default

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE
А	0 to 3650	0,1825,3650	CW	default

Test Report No.: FCCSZ2024-0058-RF3

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE
А	0 to 3650	0	CW	default

TEST CONDITION:

Both hardware versions have been tested and only the worst version of the data is represented in this report

APPLICABLE TO ENVIRONMENTAL CONDITIONS		TEST VOLTAGE (SYSTEM)	TESTED BY
RSE<1G	26.1deg. C, 59%RH	DC 5V From USB	Liu Yuan
RSE≥1G	26.1deg. C, 59%RH	DC 5V From USB	Liu Yuan
PLC	26.1deg. C, 59%RH	DC 5V From USB	Wang Zhiming
APCM	26.1deg. C, 59%RH	DC 5V From USB	Zhu Yulin



Page 13 of 32

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC PART 15, Subpart C. Section 15.249

ANSI C63.10-2020

All test items have been performed and recorded as per the above standards

2.7 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

				Supp	ort Equipmen	t					
NO	Descriptior	в	rand		Model No.	Se	erial N	umber		Supplied by	
1	DC adapter		N/A		FJ-SW2050501000U		N/A			Client	
2	POE adapte	r	N/A		N/A		N/A			Lab	
3	PoE Splitter		N/A		TYPEC0502		062405033569			Client	
				Su	pport Cable			_			
NO	Description	Quantity (Number		ngth m)	Detachable (Yes/ No)	Shiel (Yes/		Core (Numb	-	Supplied by	
1	Network cable	1	1	.5	No	No	D	N/A		Lab	

Test Report No.: FCCSZ2024-0058-RF3

Page 14 of 32

3 TEST TYPES AND RESULTS

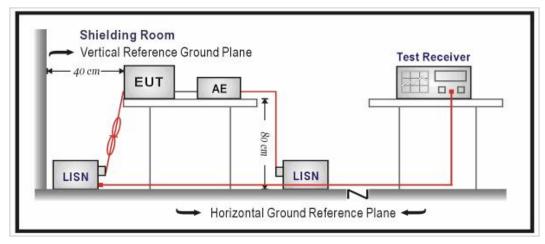
3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 Limits

Frequency	Conducted L	.imits(dBµV)
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
	II apply at the transition frequencies. s in line with the logarithm of the frequen	cy in the range of 0.15 to 0.50MHz.

3.1.2 Test Procedures

- a. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be1.5m above the ground,
- b. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- c. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.



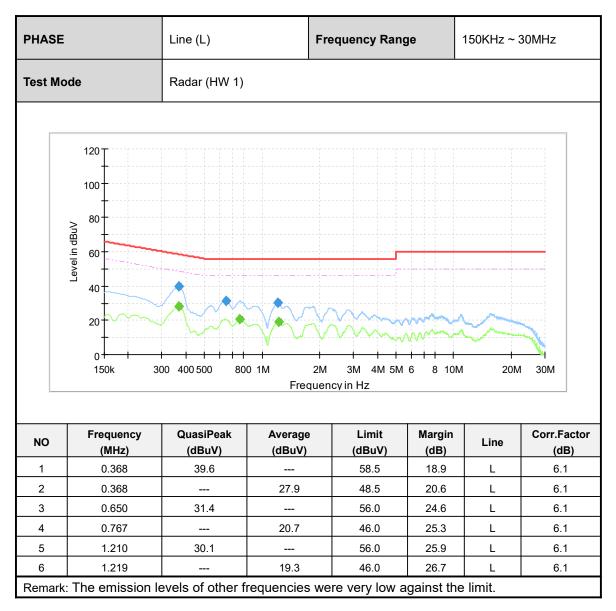
3.1.3 Test setup

Test Report No.: FCCSZ2024-0058-RF3

Page 15 of 32

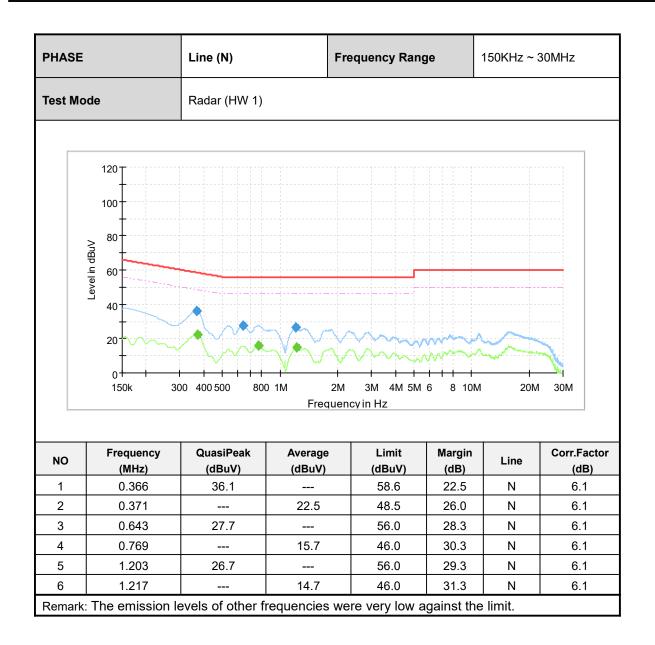
3.1.4 Test Results

WORST-CASE DATA



Test Report No.: FCCSZ2024-0058-RF3

Page 16 of 32



Test Report No.: FCCSZ2024-0058-RF3

Page 17 of 32

3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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
NOTE: 2. Emission level (dB NOTE: 3. As shown in 15.35 average detector, however, t	II apply at the transition frequencies. uV/m) = 20 log Emission level (uV/m). (b), for frequencies above 1000MHz, the ne peak field strength of any emission sh ve by more than 20dB under any condition	all not exceed the maximum permitted

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Test Report No.: FCCSZ2024-0058-RF3

Page 18 of 32

3.2.2 Measurement procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

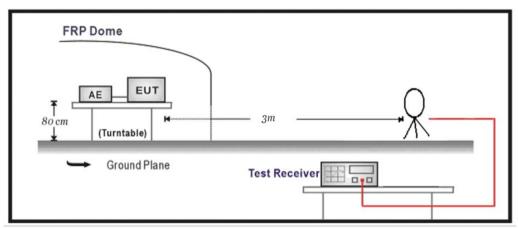
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

Test Report No.: FCCSZ2024-0058-RF3

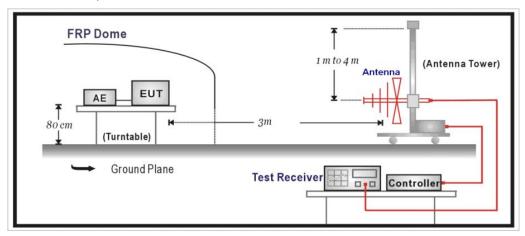
Page 19 of 32

3.2.3 Test setup

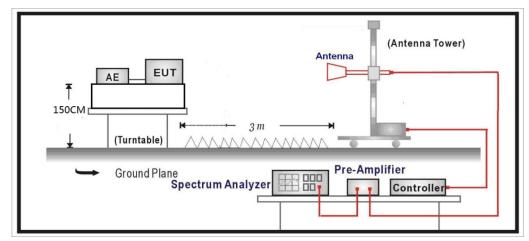
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:

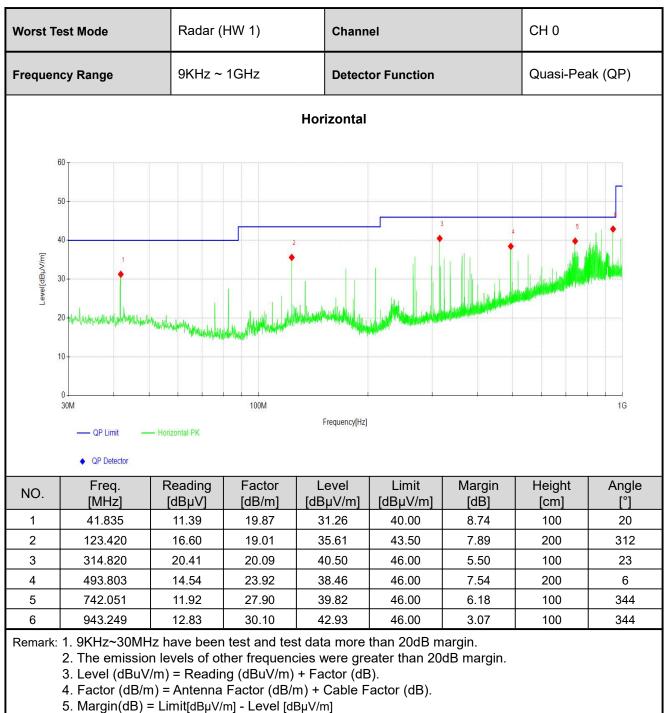


Test Report No.: FCCSZ2024-0058-RF3

Page 20 of 32

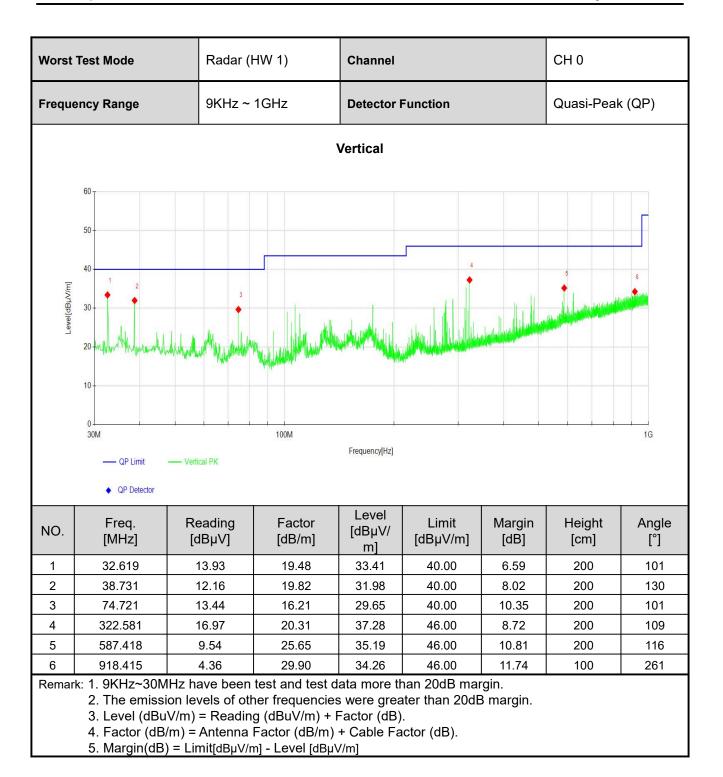
3.2.4 Test results

BELOW 1GHz WORST-CASE DATA



Test Report No.: FCCSZ2024-0058-RF3

Page 21 of 32

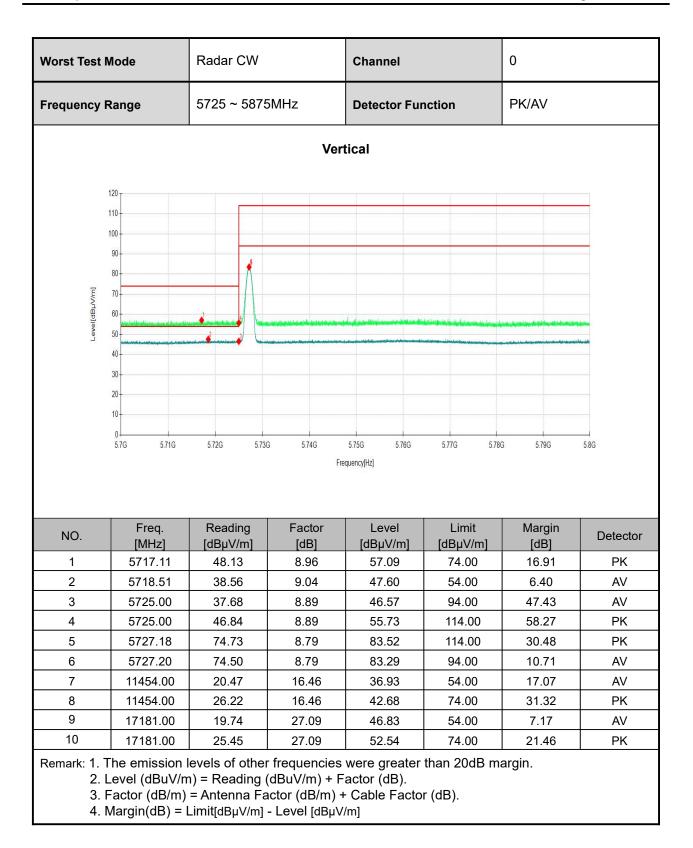


Page 22 of 32

ABOVE 1GHz DATA (HW1)

Worst Test N	lode	Radar CW		Channel		0		
Frequency R	ange	5725 ~ 5875	ōMHz	Detector Fur	nction	PK/AV		
			Horiz	ontal				
[ɯ/ʌˈˈɡɒ]	120 110 90 80 70 60 50 40 30 20 10 0 5.7G 5.7IG	5.726 5.73		5.75G 5.76G quency[Hz]	5.77G 5.78G	5.796	5.86	
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	
1	5719.86	47.96	9.10	57.06	74.00	16.94	PK	
2	5720.79	38.14	9.08	47.22	54.00	6.78	AV	
3	5725.00	45.81	8.89	54.70	114.00	59.30	PK	
4	5725.00	37.15	8.89	46.04	94.00	47.96	AV	
5	5727.21	72.90	8.79	81.69	114.00	32.31	PK	
6	5727.23	72.62	8.79	81.41	94.00	12.59	AV	
7	11454.00	18.53	16.46	34.99	54.00	19.01	AV	
8	11454.00	25.61	16.46	42.07	74.00	31.93	PK	
9	17181.00	25.59	27.09	52.68	74.00	21.32	PK	
10	17181.00	21.61	27.09	48.70	54.00	5.30	AV	
2. L 3. F	evel (dBuV/m actor (dB/m)	evels of other n) = Reading (= Antenna Fa ₋imit[dBµV/m]	(dBuV/m) + Fa actor (dB/m) +	actor (dB). Cable Facto	than 20dB ma r (dB).	argin.		

Page 23 of 32

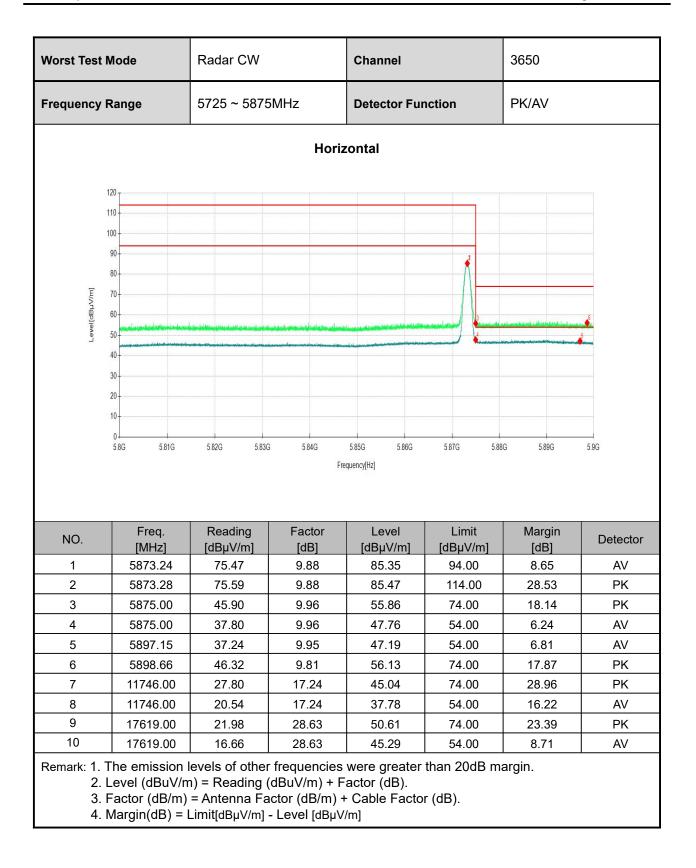


Test Report No.: FCCSZ2024-0058-RF3

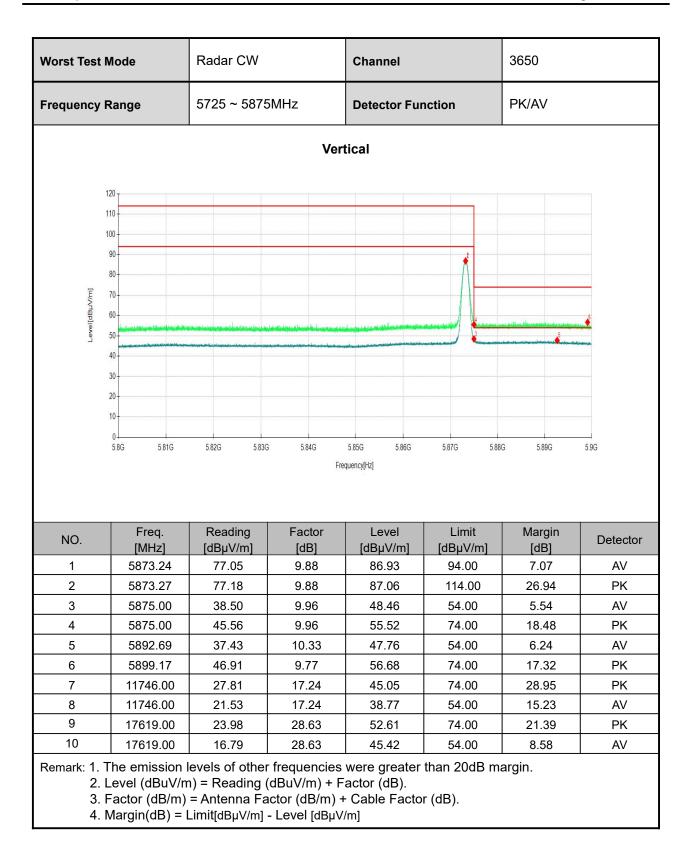
Page 24 of 32

Worst Test M	ode	Radar CW		Channel		1825	5	
Frequency Ra	ange	5725 ~ 5875M⊦	łz	Detector Funct	tion	PK/A	Ŵ	
			Hor	izontal				
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Lim [dBµ∖		Margin [dB]	Detector
1	11600.00	20.69	16.62	37.31	54.0	00	16.69	AV
2	11600.00	27.88	16.63	44.51	74.0	00	29.49	PK
3	17400.00) 19.16	27.82	46.98	54.0	00	7.02	AV
4	17400.00	24.26	27.82	52.08	74.0)0	21.92	PK
			Ve	ertical				
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Lim [dBµ∖		Margin [dB]	Detector
1	11600.00) 29.45	16.62	46.07	74.0	00	27.93	PK
2	11600.00) 22.67	16.62	39.29	54.0	00	14.71	AV
3	17400.00	23.60	27.82	51.42	74.0	00	22.58	PK
4	17400.00) 18.48	27.82	46.30	54.0	00	7.70	AV
2. Le 3. Fa	evel (dBuV actor (dB/m	n levels of other f /m) = Reading (c n) = Antenna Fac = Limit[dBµV/m] -	lBuV/m) + Fa tor (dB/m) +	ctor (dB). Cable Factor (d		margir	1.	

Page 25 of 32



Page 26 of 32





Page 27 of 32

3.3 20dB BANDWIDTH MEASUREMENT

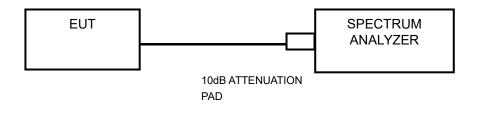
3.3.1 Limits

This section is for reporting purpose only, there is on restriction limit of bandwidth

3.3.2 Measurement procedure

- a. Set resolution bandwidth (RBW) = 1MHz
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

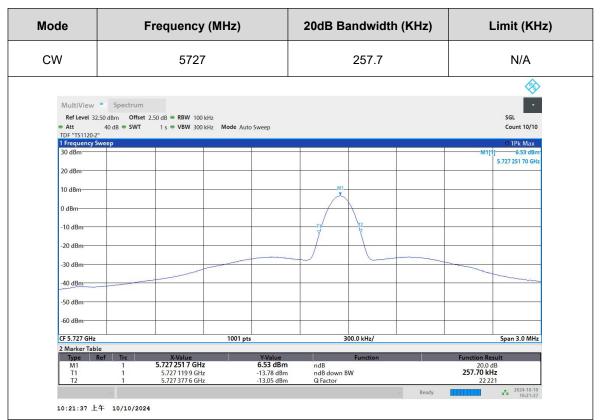
3.3.3 Test setup





Page 28 of 32

3.3.4 Test result



ode	Frequ	ode Frequency (MHz)		20dB Bandwidth (KHz)			Limit (KHz	
W	5800			257.7			N/A	
	1		1				1	
	7 Spectrum 30.00 dBm Offset 2.50 dB •	RBW 100 kHz						•
 Att TDF "TS1120 	40 dB 🗢 SWT 1 s 🗢	VBW 300 kHz Mod	de Auto Sweep					Count 10/10
1 Frequency	Sweep							O 1Pk Max
20 dBm							M1[1] 6.79 dBm 5.800 254 70 GHz
10 dBm				.M1				
0 dBm				,				
-10 dBm				T				
				1	7			
-20 dBm				mapor	Lumman			
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
CF 5.8 GHz		1	001 pts		00.0 kHz/			Span 3.0 MHz
2 Marker Ta								
Type M1 T1 T2	1 5.800 1 5.800	Value 547 GHz 122 9 GHz 380 6 GHz	Y-Value 6.79 dBm -13.11 dBm -13.02 dBm	ndB ndB down B Q Factor	Function		Function Re: 20.0 d 257.70 kH 22 50	B Z
		500 0 GHL	15.02 0511	Gractor		- Measuring		2024-10-10 10:40:42

Test Report No.: FCCSZ2024-0058-RF3

Page 29 of 32

lode	Frequency (MHz) 5873			20dB Bandwidth (KHz) 257.7			Limit (KHz N/A	
CW								
						I		
MultiView	 Spectrum 							-
Ref Level 30	.00 dBm Offse 40 dB = SWT	2.50 dB • RBW 100 kHz 1 s • VBW 300 kHz	Mode Auto Sweep					Count 10/10
TDF "TS1120-2" 1 Frequency S								O 1Pk Max
							M1[1]	7.18 dBm
20 dBm								5.873 254 70 GHz
10 dBm				M1				
0 dBm								
-10 dBm				7	¥ I			
-20 dBm								
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
CF 5.873 GHz			1001 pts		800.0 kHz/			Span 3.0 MHz
2 Marker Tabl	e		1001 pts		500.0 KH2/			span 5.0 MHz
Type F	Ref Trc	X-Value 5.873 254 7 GHz	Y-Value 7.18 dBm		Function		Function Res	
M1 T1	1	5.873 125 9 GHz	-12.94 dBm	ndB ndB down l	3W		20.0 dE 257.70 kHz	
T2	1	5.873 383 6 GHz	-12.58 dBm	Q Factor	1000111		22 787	2
						Measuring		2024-10-10

Test Report No.: FCCSZ2024-0058-RF3

Page 30 of 32

3.4 ANTENNA REQUIREMENT

3.4.1 Limits

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.4.2 Antenna Anti-Replacement Construction

The antenna used for this product is PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device

3.4.3 Antenna Gain

The maximum peak gain of the transmit antenna is 2.5dBi.



Page 31 of 32

4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

----- End of the Report ------



Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

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