

Beijing Smartmi Electronic Technology Co., Ltd.

RF TEST REPORT

Report Type:

FCC Part 15.225 RF report

Model:

AC-M16-SC

REPORT NUMBER:

210600715SHA-001

ISSUE DATE:

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DOCUMENT CONTROL NUMBER:

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Report no.: 210600715SHA-001

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Factory: Sichuan Al-Chance Technology Co., Ltd.

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City, Sichuan Province, P. R. China.

FCC ID : 2AP98-ACM16SC

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

PREPARED BY:	REVIEWED BY:	
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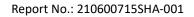
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Revision History

Report No.	Version	Description	Issued Date
210600715SHA-001	Rev. 01	Initial issue of report	September 12, 2021



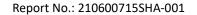


Measurement result summary

TEST ITEM	FCC REFERANCE	RESULT
Fundamental emission	15.225(a) (b) (c)	Pass
Spurious emission	15.225(d)	Pass
Frequency stability	15.225(e)	Pass
Conducted emissions	15.207	Pass
99% and 20dB Bandwidth	15.215(c)	Pass
Antenna requirement	15.203	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.





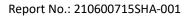
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Xiaomi Smart Air Purifier 4	
Type/Model:	AC-M16-SC	
	The product covered by this report is air purifier intended for	
	household	
	use only, it has NFC and wifi functions, the wifi function used an	
	approved module, the FCC ID is 2AC7Z-ESPWROOM32D, there are four	
Description of EUT:	configuration, two motors and two main control panels, we test all of	
Description of EoT.	them and list the worst results in this report.	
Rating:	120V~ 60Hz	
EUT type:	☐ Table top ☒ Floor standing	
Software Version:	/	
Hardware Version:	/	
Sample received date:	August 20, 2021	
Date of test:	August 26, 2021 –August 30, 2021	

1.2 Technical Specification

Frequency Range:	13.56MHz ~ 13.56 MHz





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	CNAS Accreditation Lab Registration No. CNAS L0139
*	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab Registration code No.: 2042B-1
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02





2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2019) ANSI C63.10 (2013)

2.2 Mode of operation during the test

While testing, the internal modulation and continuously transmission was applied.

2.3 Test software list

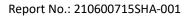
Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No	Description	Brand and Model	S/No
1	/	/	/

2.5 Test environment condition:

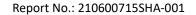
Test items	Temperature	Humidity
Radiated emission	25°C	54% RH
Power line conducted emission	26°C	54% RH





2.6 Instrument list

Condu	ucted Emission				
Used	Equipment	Manufacturer	Туре	Internal no.	Due date
~	Test Receiver	R&S	ESCS 30	EC 2107	2021-10-18
~	A.M.N.	R&S	ESH2-Z5	EC 3119	2021-12-01
~	Shielded room	Zhongyu	-	EC 2838	2022-01-08
	ted Emission				
Used	Equipment	Manufacturer	Туре	Internal no.	Due date
~	Test Receiver	R&S	ESIB 26	EC 3045	2021-10-18
~	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2021-10-25
~	Horn antenna	R&S	HF 906	EC 3049	2021-09-22
~	Horn antenna	ETS	3117	EC 4792-1	2022-08-23
~	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2022-07-09
~	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2022-07-09
V	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2022-03-14
~	Semi-anechoic chamber	Albatross project	-	EC 3048	2021-09-08
RF tes	t				
Used	Equipment	Manufacturer	Type	Internal no.	Due date
~	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2021-09-10
~	Power sensor	Agilent	U2021XA	EC 5338-1	2022-03-03
V	Vector Signal Generator	Agilent	N5182B	EC 5175	2022-03-06
~	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2022-03-03
~	Test Receiver	R&S	ESCI 7	EC 4501	2022-02-23
<mark>Additi</mark>	onal instrument				
Used	Equipment	Manufacturer	Туре	Internal no.	Due date
~	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3323	2022-06-14
~	Pressure meter	YM3	Shanghai Mengde	EC 3320	2022-06-28





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.

Measurement	Frequency	Expanded Uncertainty (k=2)
Conducted emission at mains parts	9kHz ~ 150kHz	3.52 dB
Conducted emission at mains ports	150kHz ~ 30MHz	3.19 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.90 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.02 dB
Radiated Emissions above 1 GHZ	6GHz ~ 18GHz	5.28 dB



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3 Fundamental Emission

Test result: Pass

3.1 Limit

Frequencies (MHz)	Limit at 30m (dBuV/m)	Limit at 3m (dBuV/m)
13.110 – 13.410	40.50	80.50
13.410 – 13.553	50.50	90.50
13.553 – 13.567	84.00	124.00
13.567 – 13.710	50.50	90.50
13.710 – 14.010	40.50	80.50

3.2 Measurement Procedure

- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. For the floor-standing devices, the EUT was placed on the top of a rotating table 0.1 meters 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) 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 PK Detect Function and Specified Bandwidth with Maximum Hold Mode.

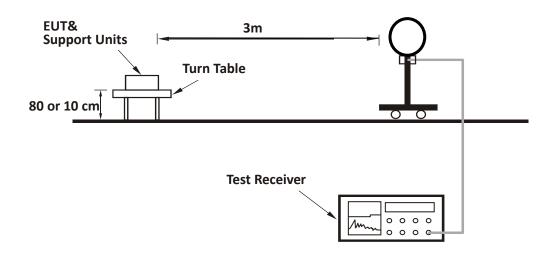
NOTE:

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





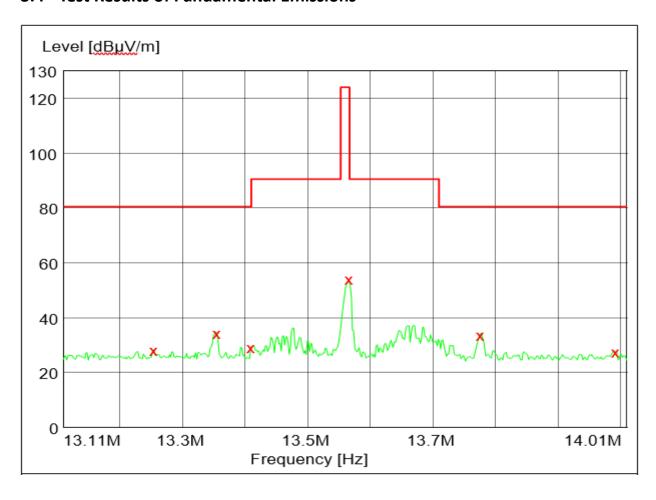
3.3 Test Configuration







3.4 Test Results of Fundamental Emissions



Antenna Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin	Detector
X	13.56	51.10	20.40	124.00	72.90	PK
Υ	13.56	53.50	20.40	124.00	70.50	PK
Z	13.56	48.30	20.40	124.00	75.70	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

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,

Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,

Limit = 40.00dBuV/m.

Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20dB/m;

Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;

Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.



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4 Spurious Emission

Test result: Pass

4.1 Limit

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

4.2 Measurement Procedure

For Radiated emission below 30MHz:

- f) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. For the floor-standing devices, the EUT was placed on the top of a rotating table 0.1 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- g) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- h) Both X and Y axes of the antenna are set to make the measurement.
- i) 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.
- j) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

2. 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 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. For the floor-standing devices, the EUT was placed on the top of a rotating table 0.1 meters 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.

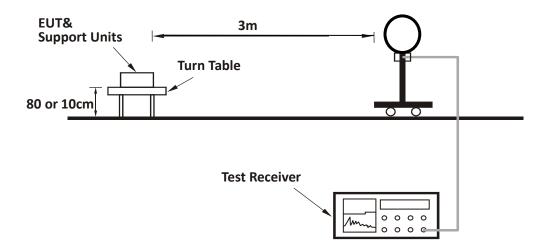
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function 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.

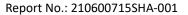
Note:

- 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. All modes of operation were evaluated and the worst-case emissions were reported

4.3 Test Configuration

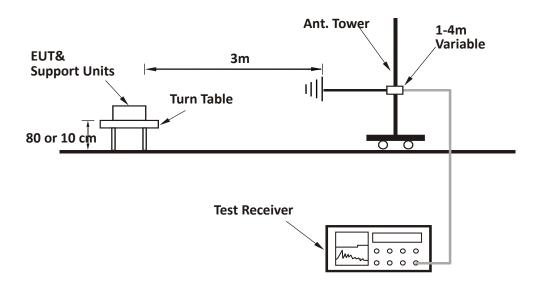
For Radiated emission below 30MHz:



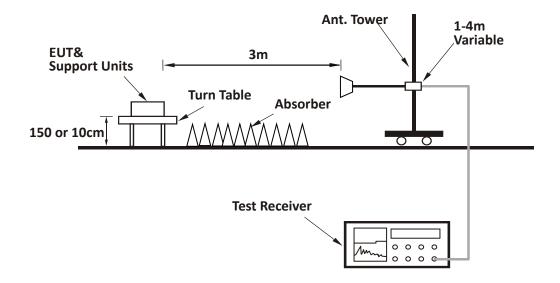




For Radiated emission 30MHz to 1GHz:



For Radiated emission above 1GHz:







4.4 Test Results of Radiated Emissions

Test data below 30MHz:

Antenna Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin	Detector	Remark
Χ	0.15	62.40	10.60	104.10	41.70	PK	Spurious
Χ	0.75	32.70	10.60	70.10	37.40	PK	Spurious
X	1.11	30.90	11.60	66.70	35.80	PK	Spurious
Χ	2.36	23.50	11.70	69.50	46.00	PK	Spurious
Χ	7.39	28.60	11.80	69.50	40.90	PK	Spurious
X	13.55	41.10	11.20	69.50	28.40	PK	Spurious
Υ	0.21	55.30	10.60	101.20	45.90	PK	Spurious
Υ	0.63	31.80	10.60	71.60	39.80	PK	Spurious
Υ	1.05	28.40	11.60	67.20	38.80	PK	Spurious
Υ	2.84	24.40	11.70	69.50	45.10	PK	Spurious
Υ	7.39	42.00	11.80	69.50	27.50	PK	Spurious
Υ	13.55	43.40	11.20	69.50	26.10	PK	Spurious
Z	0.63	30.70	10.60	71.60	40.90	PK	Spurious

Test data from 30MHz to 1000MHz:

Antenna Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin	Detector
Н	30.00	22.40	18.80	40.00	17.60	PK
Н	64.99	16.80	7.20	40.00	23.20	PK
Н	136.91	33.20	12.70	43.50	10.30	PK
Н	173.85	30.60	10.80	43.50	12.90	PK
Н	519.86	28.20	19.90	46.00	17.80	PK
Н	881.42	33.80	23.60	46.00	12.20	PK
V	49.44	26.60	9.00	40.00	13.40	PK
V	59.16	30.50	7.20	40.00	9.50	PK
V	111.64	30.60	12.90	43.50	12.90	PK
V	292.42	22.70	14.80	46.00	23.30	PK
V	515.97	27.60	19.90	46.00	18.40	PK
V	955.29	33.00	24.30	46.00	13.00	PK



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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,

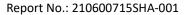
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,

Limit = 40.00dBuV/m.

Then Correct Factor = 30.20 + 2.00 - 32.00 = 0.20dB/m;

Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;

Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.





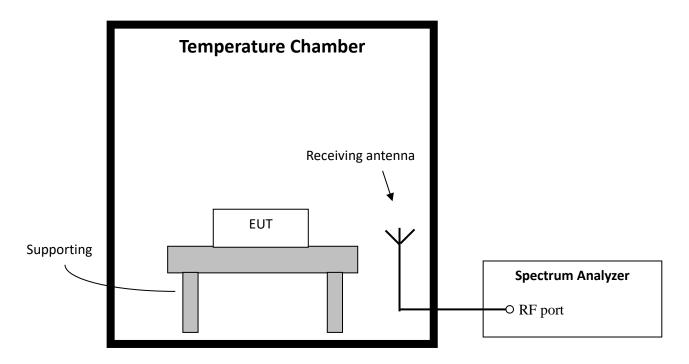
5 Frequency Stability (Temperature Variation)

Test result: PASS

5.1 Test limit

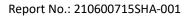
The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage.

5.2 Test Configuration



5.3 Test procedure and test setup

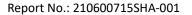
Test Procedure as per ANSI 63.10 clause 6.8.1.





5.4 Test protocol

Voltage (V)	Temp (ºC)	Freq measured (MHz)	Freq nominal (MHz)	Tolerance (%)	Limit (%)
	-20	13.559		0.003	
	-10	13.560		0	
	0	13.560		0	0.01
120	10	13.560	13.560	0	
	20	13.560	25,555	0	3.02
	30	13.560		0	
	40	13.560		0	
	50	13.559		0.003	





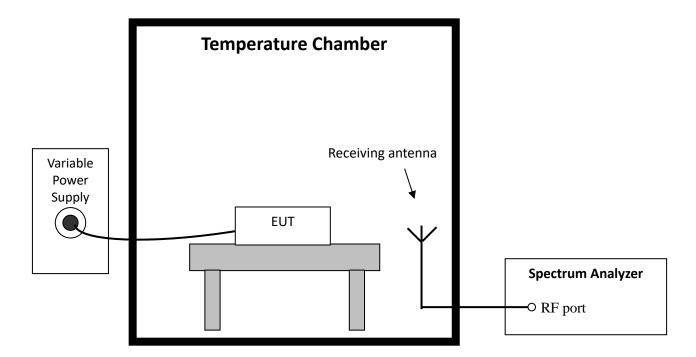
6 Frequency Stability (Voltage Variation)

Test result: PASS

6.1 Test limit

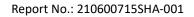
The frequency tolerance of the carrier signal shall be maintained within ±0.01% for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

6.2 Test Configuration



6.3 Test procedure and test setup

Test Procedure as per ANSI 63.10 clause 6.8.2.





6.4 Test protocol

Temp (ºC)	Voltage (V)	Freq Measured (MHz)	Freq nominal (MHz)	Tolerance (%)	Limit (%)
	120	13.560		0	
20	102	13.559	13.560	0.003	0.01
	138	13.559		0.003	





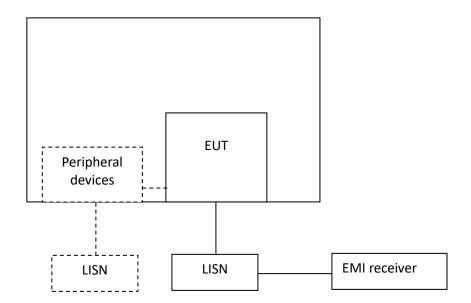
7 Conducted emissions

Test result: Pass

7.1 Limit

Francisco of Francisco (DALL-)	Conducted Emissions Limit (dBuV)					
Frequency of Emission (MHz)	QP	AV				
0.15 ~ 0.5	79	66				
0.5 ~ 30	73	60				
* Decreases with the logarithm of the frequency.						

7.2 Test Configuration







7.3 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.

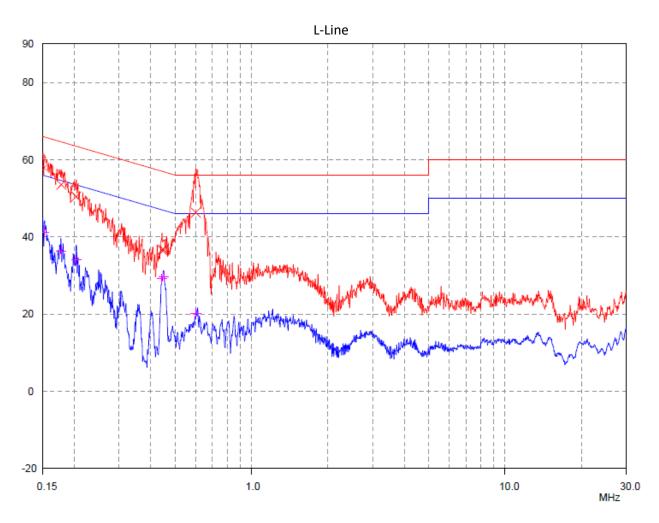
Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on 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.





7.4 Test Results of Conducted Emissions

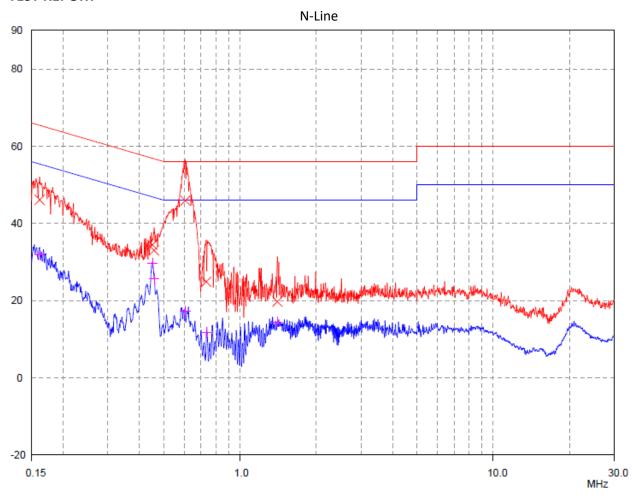


Test Data:

Frequency (MHz)	Quasi-peak			Average			
	level dB(μV)	Limit dB(μV)	Margin (dB)	level dB(μV)	limit dB(μV)	Margin (dB)	
0.15	57.92	65.90	7.98	41.29	55.90	14.61	
0.18	53.55	64.61	11.06	36.41	54.61	18.20	
0.20	50.43	63.48	13.05	34.03	53.48	19.45	
0.44	36.62	57.01	20.39	29.13	47.01	17.88	
0.45	36.66	56.88	20.22	29.75	46.88	17.13	
0.60	46.33	56.00	9.67	20.13	46.00	25.87	





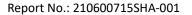


Test Data:

Frequency	Quasi-peak			Average		
(MHz)	level dB(μV)	Limit dB(μV)	Margin (dB)	level dB(μV)	limit dB(μV)	Margin (dB)
0.16	46.12	65.40	19.28	31.81	55.40	23.59
0.45	34.46	56.88	22.42	29.68	46.88	17.20
0.46	33.02	56.75	23.73	25.69	46.75	21.06
0.61	45.91	56.00	10.09	17.20	46.00	28.80
0.73	24.91	56.00	31.09	11.75	46.00	34.25
1.40	19.74	56.00	36.26	14.45	46.00	31.55

Remark: 1. Correct Factor = LISN Factor + Cable Loss, 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.





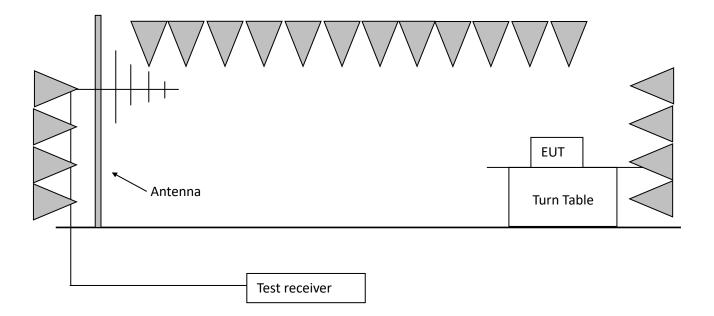
8 99% and 20dB Bandwidth

Test result: Pass

8.1 Limit

The 20dB bandwidth should be fallen in the allocated operating frequency range. No limit for 99% bandwidth.

8.2 Test configuration





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8.3 Test procedure and test set up

The measurement was applied in a 3m semi-anechoic chamber.

The center of the loop antenna shall be 1 m above the horizontal metal ground plane.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set RBW = 1% to 5% of the OBW
- 3. Set VBW \geq 3 · RBW
- 4. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 5. Use the 99 % power bandwidth function of the instrument (if available).
- 6. the 20dB bandwidth is also measured with the same setting.

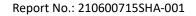




8.4 Test protocol

	Lower point (MHz)	Higher point (MHz)	Bandwidth (kHz)	Allocated bandwidth (MHz)
99% Bandwidth	13.560759	13.560981	0.222	/
20dB Bandwidth	13.560842	13.560908	0.066	13.553 ~ 13.567







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9 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.	