

FCC - TEST REPORT

Report Number : **7088818110931-00** Date of Issue: January 9, 2019

Model : Z2000

Product Type : AIR PURIFIER

FCC ID : GV3-18Z2000

Applicant : ACCO Brands, Inc.

Address : 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404
California, United States

Manufacture : ACCO Brands, Inc.

Address : 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404
California, United States

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 26

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
No.16 Lane, 1951 Du Hui Road,
Shanghai 201108,
P.R. China

Test Firm
Registration
Number: 820234

Telephone: +86 21 6141 0123
Fax: +86 21 6140 8600

Test Site 2

Company name: MRT Technology (Suzhou) Co., Ltd.
D8 Building, Youxin Industrial Park, No. 2 Tina'ed Wuzhong
Economic Development Zone, Suzhou, China

FCC Registration
No.: 893164

IC Registration
No.: 11384A-1

Telephone: +86-512-66308358
Fax: +86-512-66308368

3 Description of the Equipment Under Test

Product:	AIR PURIFIER
Model no.:	Z2000
FCC ID:	GV3-18Z2000
Input Rated Voltage:	120V~, 60Hz
RF Transmission Frequency:	2462MHz
No. of Operated Channel:	1
Channel Bandwidth:	1MHz
Modulation:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	2.0dBi
Description of the EUT:	The Equipment Under Test (EUT) is an AIR PURIFIER.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C					
Test Condition	Pages	Test Site	Test Result		
			Pass	Fail	N/A
§15.207(a) Conduction Emissions	10	Site 2	☒	☐	☐
§15.205(a), §15.209(a), §15.249(a), §15.249(c) Field strength of emissions and Restricted bands	13	Site 2	☒	☐	☐
FCC §15.215(c) 20dB bandwidth	20	Site 2	☒	☐	☐
§15.249(d) Out of band emissions	22	Site 2	☒	☐	☐
§15.203 Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: §15.203 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.

E.U.T Antenna: The EUT antenna is an integrated PCB antenna, the best-case gain of the antenna is 2.0 dBi.

The antenna of the **AIR PURIFIER**, is permanently attached.

There are no provisions for connection to an external antenna.

Conclusion: The EUT unit complies with the requirement of §15.203.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: GV3-18Z3000 complies with Section 15.203, 15.205, 15.207, 15.209, 15.249 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: November 20, 2018

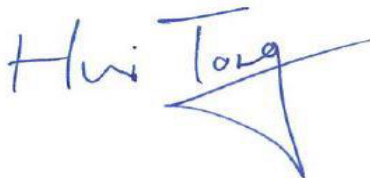
Testing Start Date: November 21, 2018

Testing End Date: January 5, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch -

Reviewed by:

Prepared by:



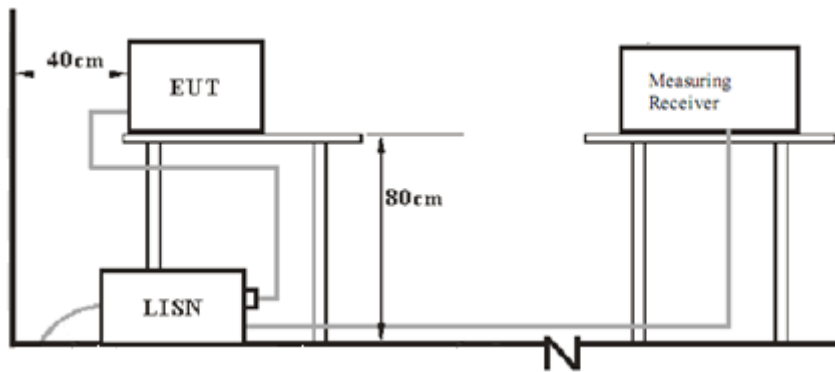
Hui TONG
Review Engineer



Jiaxi XU
Project Engineer

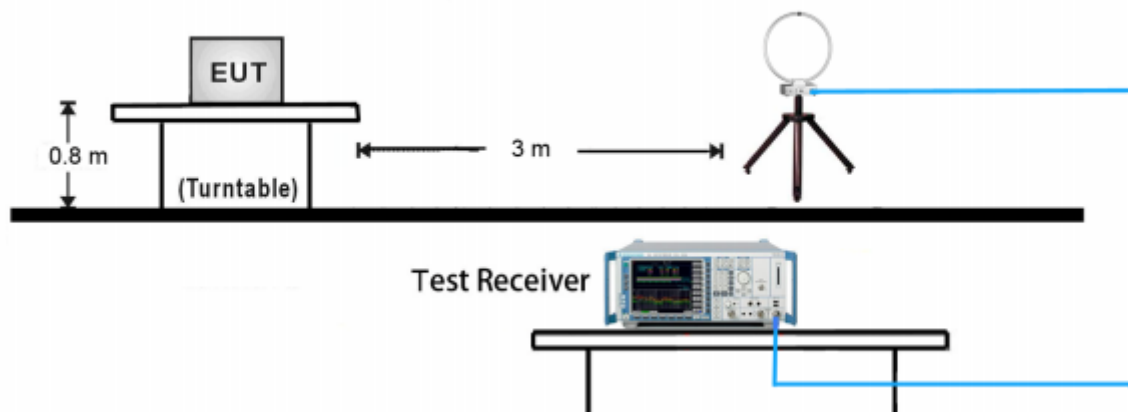
7 Test setups

7.1 AC Power Line Conducted Emission test setups

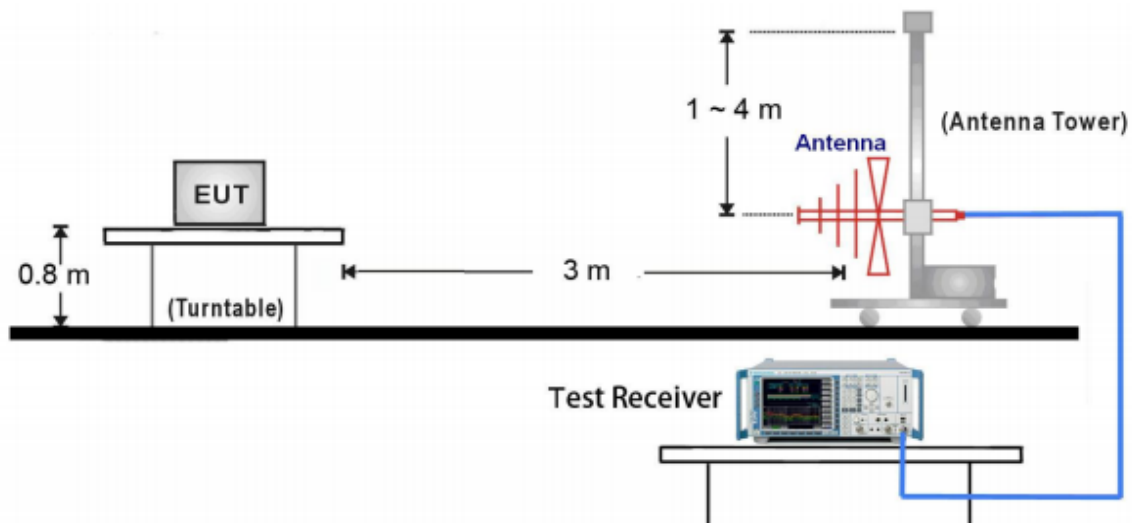


7.2 Radiated test setups

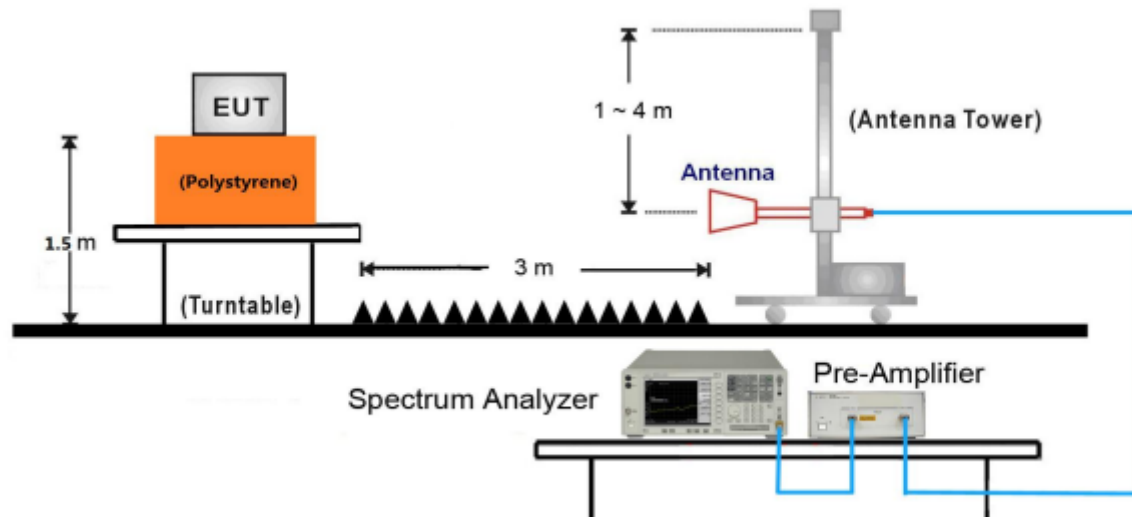
9kHz ~ 30MHz Test Setup:



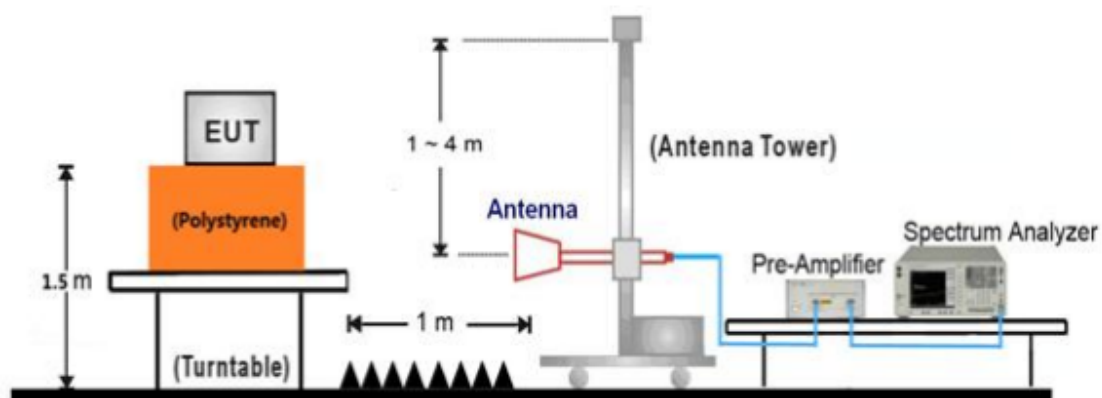
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



8 Technical Requirement

8.1 Conducted Emission

Test Method

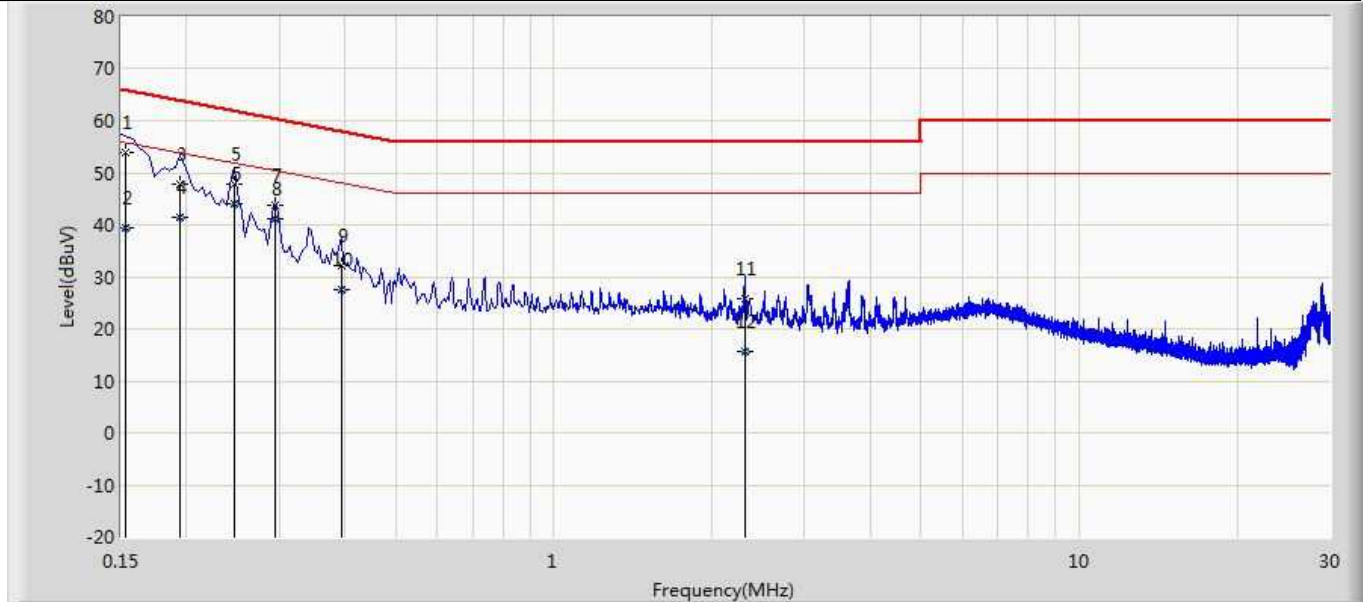
1. The EUT was placed on a table, which is 0.1m above ground plane
2. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

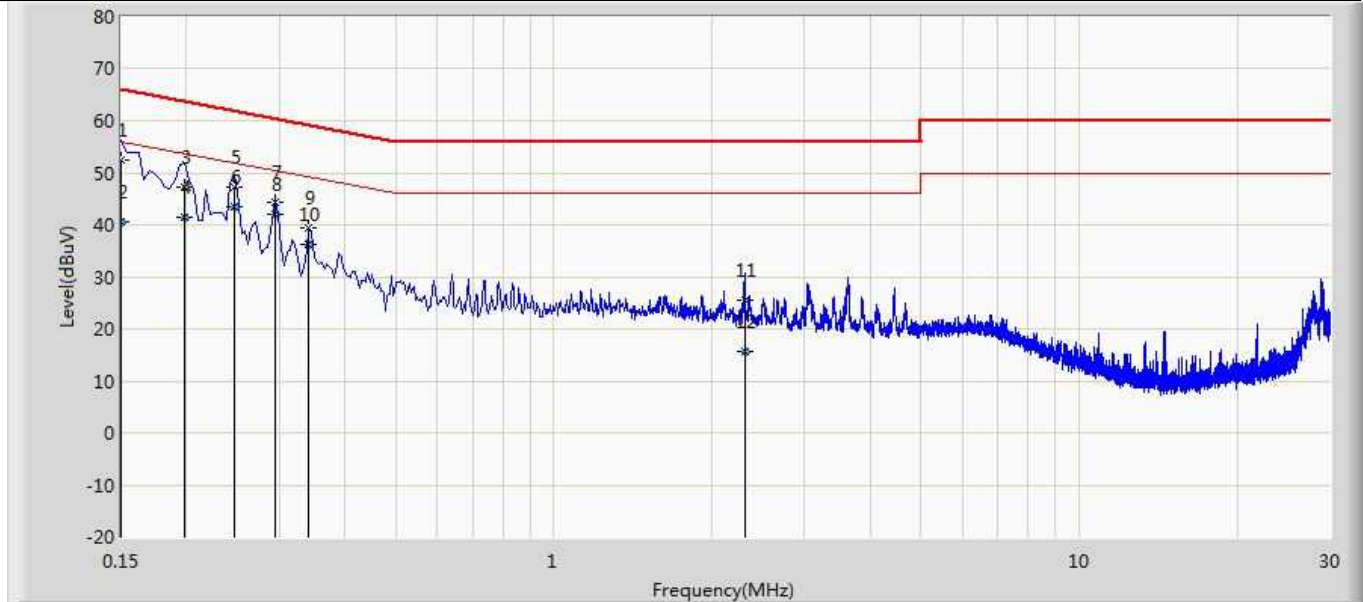
Decreasing linearly with logarithm of the frequency

Site: SR2	Time: 2019/01/05 - 11:00	China
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan	
Probe: ENV216_101683_Filter On	Polarity: Neutral	
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz	
Test Mode: Transmit		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.153	54.022	43.200	-11.813	65.836	10.822	QP
2			0.153	39.422	28.600	-16.413	55.836	10.822	AV
3			0.194	47.966	37.945	-15.897	63.864	10.021	QP
4			0.194	41.358	31.337	-12.505	53.864	10.021	AV
5			0.246	47.761	37.763	-14.130	61.891	9.998	QP
6		*	0.246	43.954	33.956	-7.937	51.891	9.998	AV
7			0.294	43.736	33.703	-16.674	60.411	10.033	QP
8			0.294	41.204	31.170	-9.207	50.411	10.033	AV
9			0.394	32.117	22.009	-25.862	57.979	10.108	QP
10			0.394	27.627	17.520	-20.352	47.979	10.108	AV
11			2.306	25.899	16.033	-30.101	56.000	9.866	QP
12			2.306	15.641	5.775	-30.359	46.000	9.866	AV

Site: SR2	Time: 2019/01/05 - 11:05	China
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan	
Probe: ENV216_101683_Filter On	Polarity: Line	
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz	
Test Mode: Transmit		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	52.464	41.296	-13.536	66.000	11.168	QP
2			0.150	40.480	29.312	-15.520	56.000	11.168	AV
3			0.198	47.177	37.172	-16.517	63.694	10.005	QP
4			0.198	41.503	31.498	-12.191	53.694	10.005	AV
5			0.246	47.261	37.300	-14.630	61.891	9.961	QP
6		*	0.246	43.561	33.600	-8.330	51.891	9.961	AV
7			0.294	44.406	34.406	-16.005	60.411	9.999	QP
8			0.294	41.949	31.950	-8.462	50.411	9.999	AV
9			0.342	39.314	29.276	-19.841	59.155	10.038	QP
10			0.342	36.260	26.222	-12.895	49.155	10.038	AV
11			2.306	25.470	15.607	-30.530	56.000	9.863	QP
12			2.306	15.560	5.697	-30.440	46.000	9.863	AV

8.2 Field strength of emissions and Restricted bands

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured ,RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{duty cycle}/100\text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limits

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 (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

According to §15.249 (c), Field strength limits are specified at a distance of 3 meters.

According to §15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

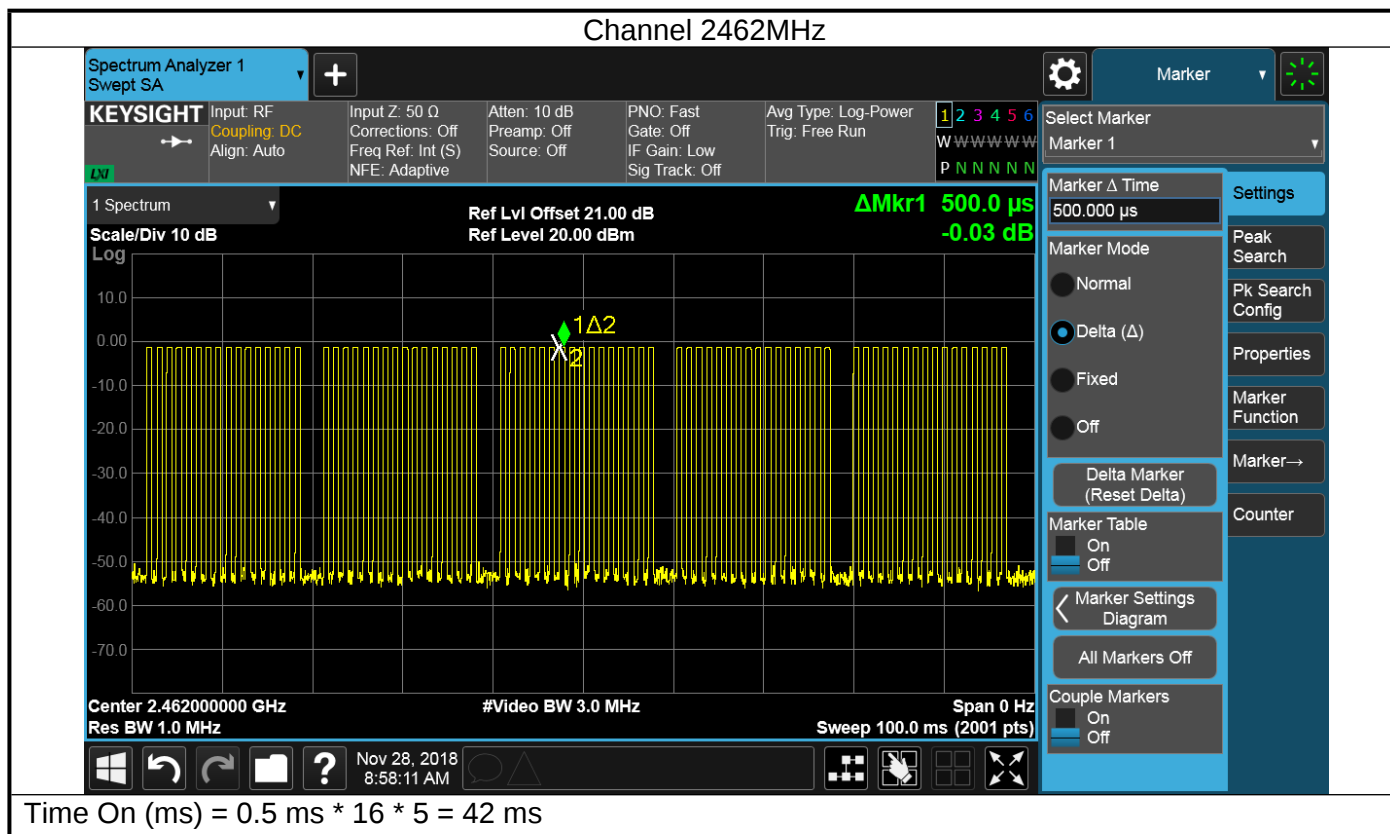
According to §15.205 and Unwanted emissions falling into restricted bands in §15.205 (a) Table 3 shall comply with the limits specified in §15.209.

Duty Cycle Factor

China

Time On (ms)	One Period (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
40	100	40	-7.96

Note: Duty Cycle Factor = 20*Log (Duty Cycle)



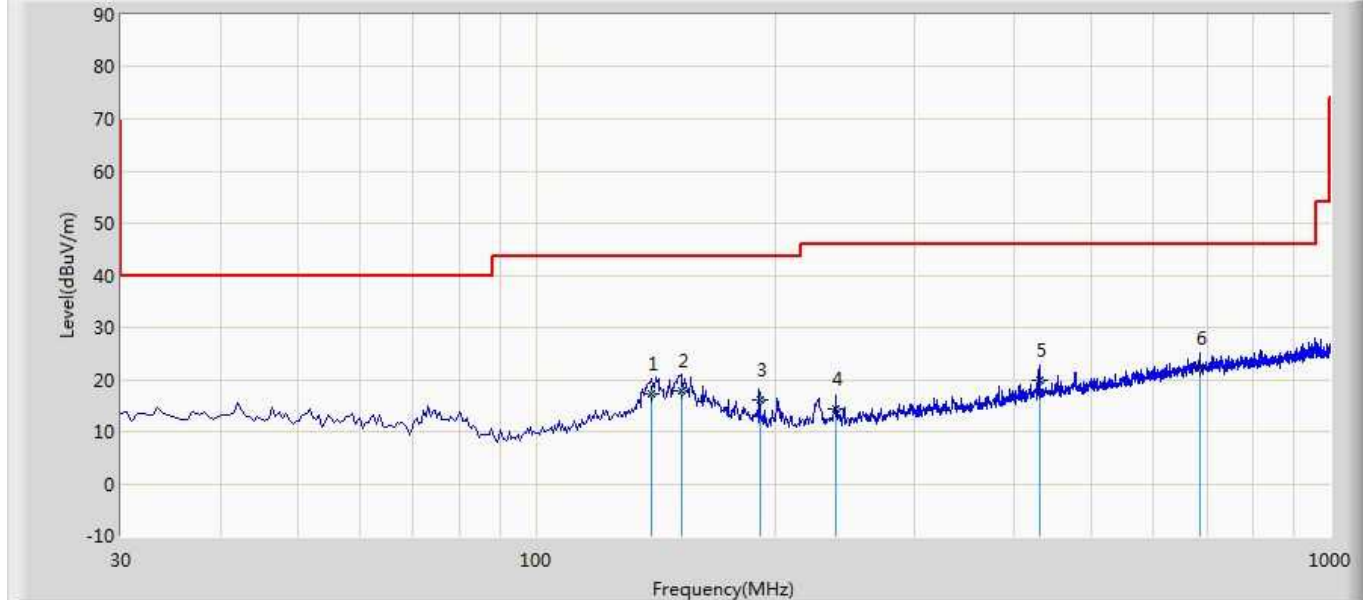
Field strength of emissions and Restricted bands

2462 MHz

Fundamental

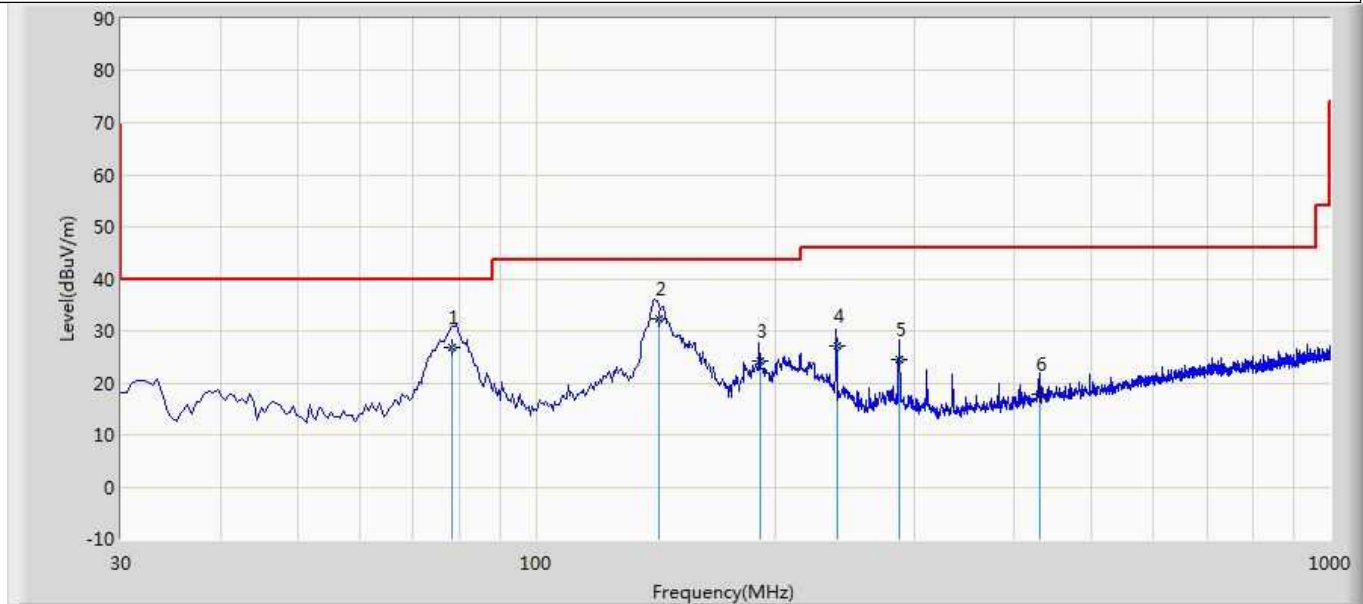
Fundamental Frequency (MHz)	Polarisation (Vertical/ Horizontal)	Reading Level	Factor	Duty Cycle Factor	Field Strength	Over Limit	Limit		Type
		(dBµV/)	(dB)	(dB)	dBµV/m	(dB)	(dBµV/m)	mV/m	AV/PK
2461.905	H	62.444	32.28	N/A	94.724	-19.276	114.0	50	PK
2461.905	H	62.444	32.28	-7.96	86.764	-7.236	94.0		AV
2461.810	V	54.119	32.28	N/A	86.399	-27.601	114.0	50	PK
2461.810	V	54.119	32.28	-7.96	78.439	-15.561	94.0		AV

Site: AC1	Time: 2018/11/22 - 00:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: VULB 9168_20-2000MHz	Polarity: Horizontal
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz
Test Mode: Power On	



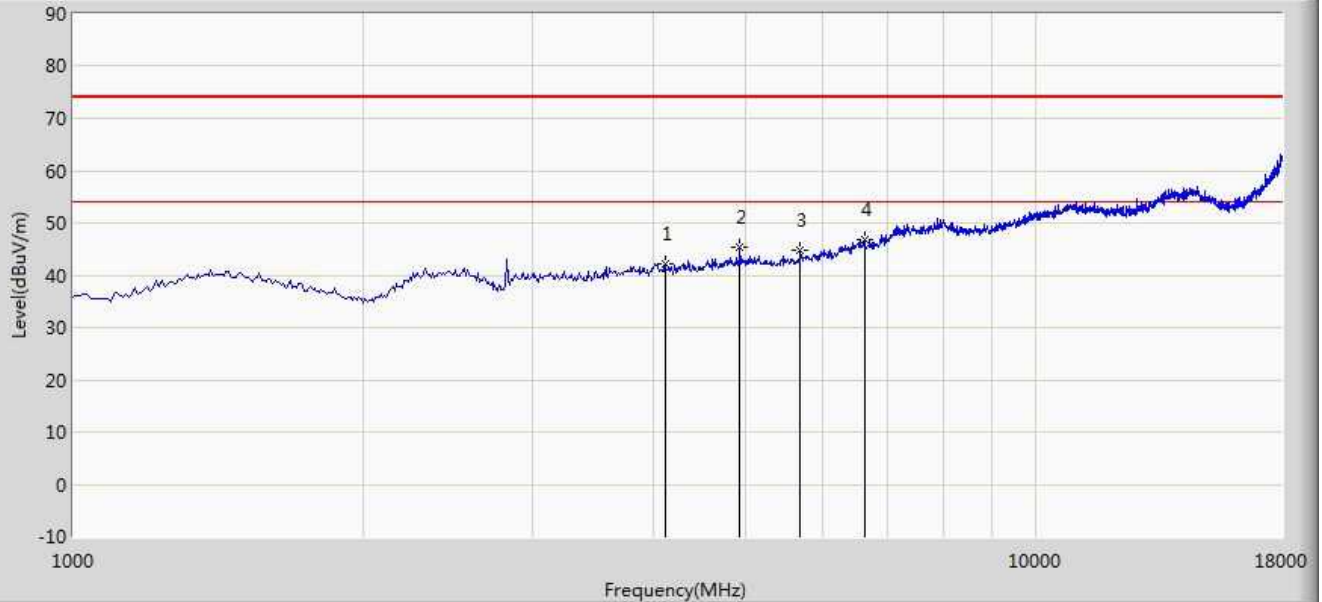
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			139.610	17.209	2.648	-26.291	43.500	14.561	QP
2			152.648	17.937	2.647	-25.563	43.500	15.290	QP
3			191.478	15.995	4.344	-27.505	43.500	11.651	QP
4			238.694	14.446	1.611	-31.554	46.000	12.835	QP
5			430.645	19.867	2.447	-26.133	46.000	17.420	QP
6		*	686.315	22.269	0.347	-23.731	46.000	21.923	QP

Site: AC1	Time: 2018/11/22 - 00:08	China
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong	
Probe: VULB 9168_20-2000MHz	Polarity: Vertical	
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz	
Test Mode: Power On		



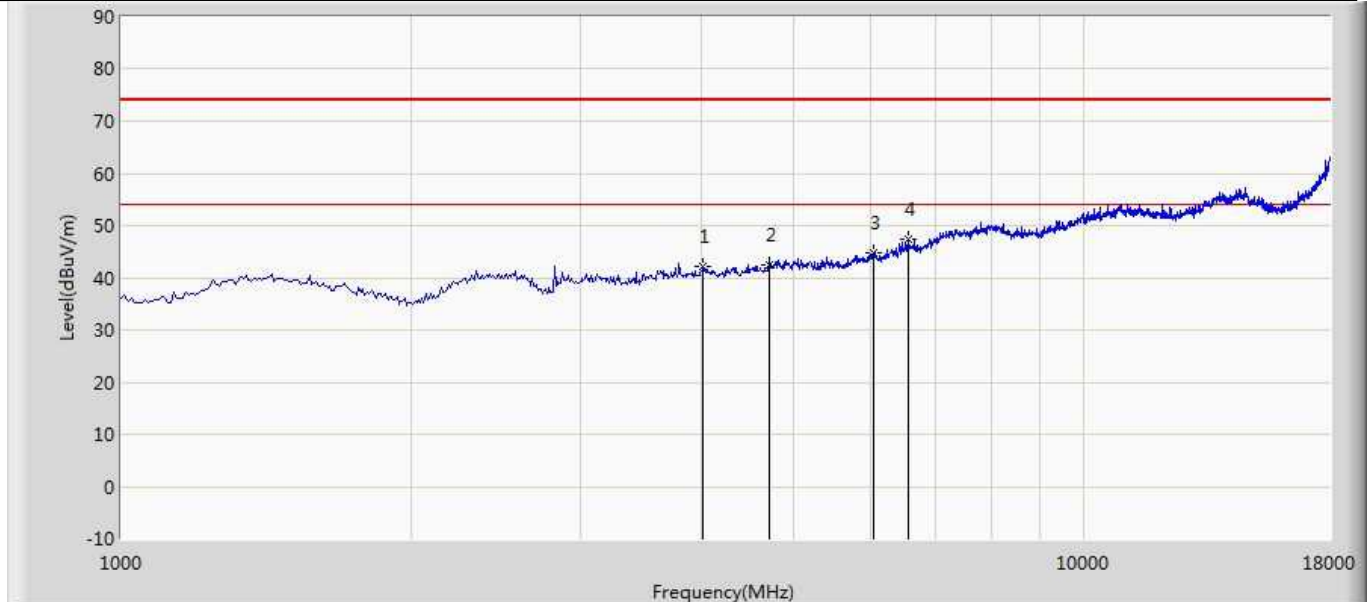
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			78.334	26.842	16.482	-13.158	40.000	10.360	QP
2		*	142.687	32.331	17.554	-11.169	43.500	14.777	QP
3			191.368	24.142	12.485	-19.358	43.500	11.657	QP
4			239.548	27.226	14.369	-18.774	46.000	12.856	QP
5			286.694	24.438	10.369	-21.562	46.000	14.068	QP
6			430.994	17.687	0.258	-28.313	46.000	17.429	QP

Site: AC1	Time: 2018/11/26 - 16:22
Limit: FCC_Part15.209_R SE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz
Test Mode: Transmit at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			4119.500	38.439	3.728	N/A	42.167	74.000	-31.833	PK
			4119.500	38.439	3.728	-7.960	34.207	54.000	-19.793	AV
2		*	4927.000	39.116	6.128	N/A	45.244	74.000	-28.756	PK
			4927.000	39.116	6.128	-7.960	37.284	54.000	-16.716	AV
3			5692.000	37.680	7.111	N/A	44.791	74.000	-29.209	PK
			5692.000	37.680	7.111	-7.960	36.831	54.000	-17.169	AV
4			6635.500	36.639	10.109	N/A	46.748	74.000	-27.252	PK
			6635.500	36.639	10.109	-7.960	38.788	54.000	-15.212	AV

Site: AC1	Time: 2018/11/26 - 16:29	China
Limit: FCC_Part15.209_R SE(3m)	Engineer: Cloud Guo	
Probe: BBHA9120D_1-18GHz	Polarity: Vertical	
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			4026.000	38.625	3.413	N/A	42.038	74.000	-31.962	PK
			4026.000	38.625	3.413	-7.960	34.078	54.000	-19.922	AV
2		*	4706.000	37.004	5.473	N/A	42.477	74.000	-31.523	PK
			4706.000	37.004	5.473	-7.960	34.517	54.000	-19.483	AV
3			6040.500	36.967	7.897	N/A	44.864	74.000	-29.136	PK
			6040.500	36.967	7.897	-7.960	36.904	54.000	-17.096	AV
4			6567.500	37.237	10.210	N/A	47.447	74.000	-26.553	PK
			6567.500	37.237	10.210	-7.960	39.487	54.000	-14.513	AV

8.3 20dB Bandwidth

Test Method

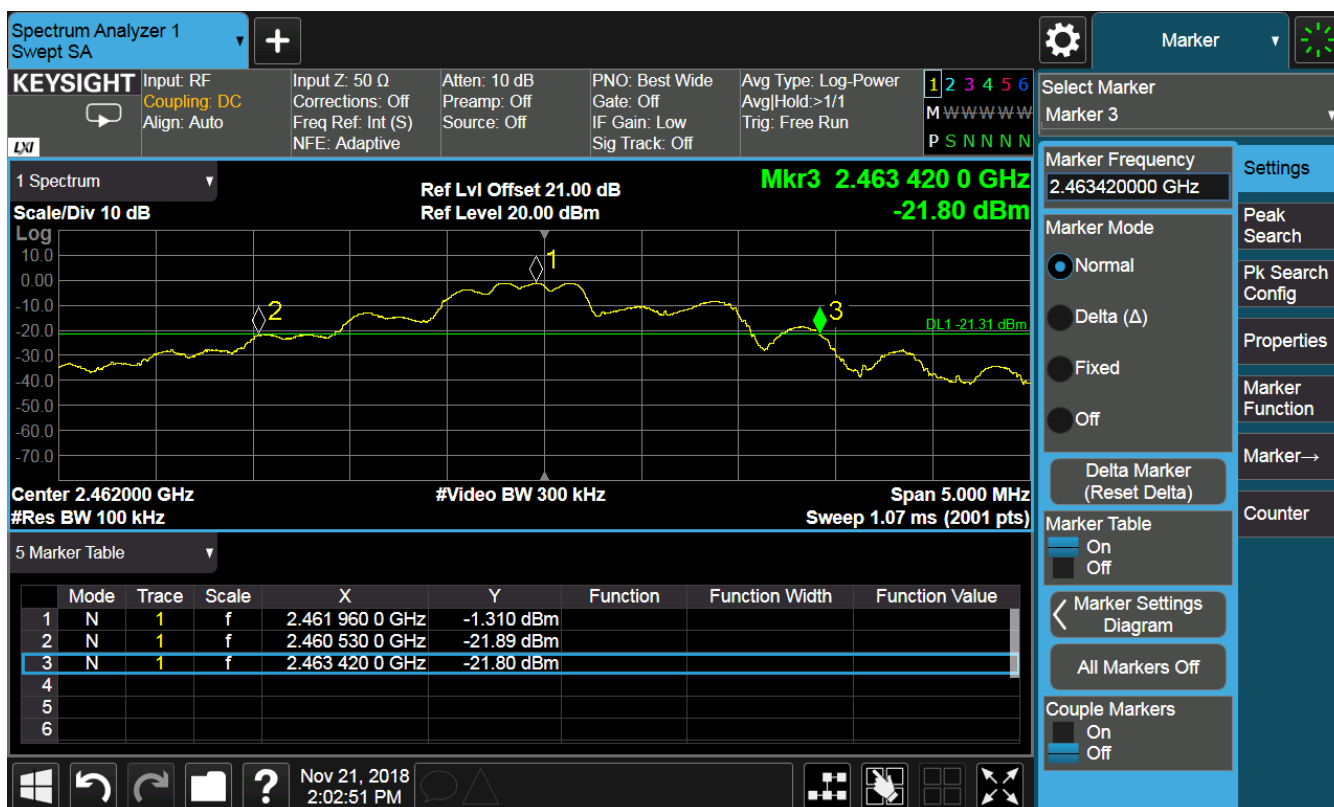
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Limits:

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

20dB Bandwidth

Frequency	20dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2462	2890	NA	PASS



8.4 Band edge testing

Test Method

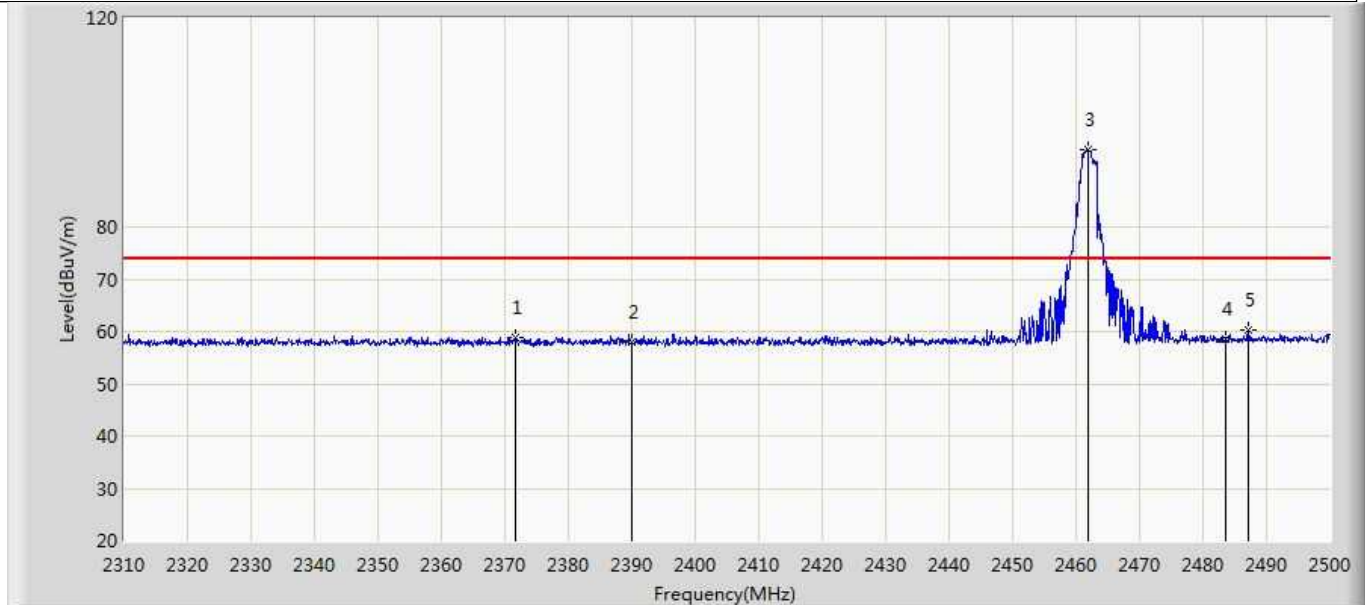
- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

According to §15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

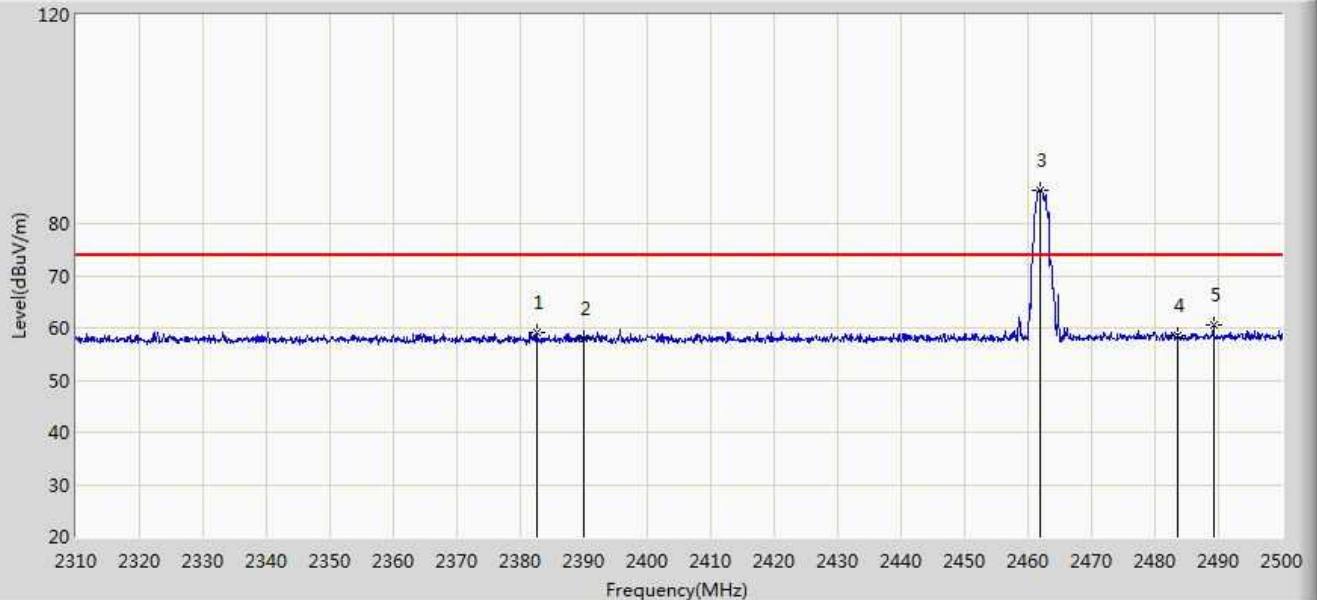
Band edge testing

Site: AC1	Time: 2018/11/26 - 15:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz
Test Mode: Transmit at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			2371.655	26.629	32.354	N/A	58.983	74.000	-15.017	PK
			2371.655	26.629	32.354	-7.960	51.023	54.000	-2.977	AV
2			2390.000	25.570	32.327	N/A	57.897	74.000	-16.103	PK
			2390.000	25.570	32.327	-7.960	49.937	54.000	-4.063	AV
3		*	2461.905	62.444	32.280	N/A	94.724	114.000	-19.276	PK
		*	2461.905	62.444	32.280	-7.960	86.764	94.000	-7.236	AV
4			2483.500	26.250	32.340	N/A	58.590	74.000	-15.410	PK
			2483.500	26.250	32.340	-7.960	50.630	54.000	-3.370	AV
5			2487.080	27.903	32.353	N/A	60.256	74.000	-13.744	PK
			2487.080	27.903	32.353	-7.960	52.296	54.000	-1.704	AV

Site: AC1	Time: 2018/11/26 - 15:59	China
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo	
Probe: BBHA9120D_1-18GHz	Polarity: Vertical	
EUT: AIR PURIFIER (Z2000)	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			2382.580	26.673	32.337	N/A	59.010	74.000	-14.990	PK
			2382.580	26.673	32.337	-7.960	51.050	54.000	-2.950	AV
2			2390.000	25.775	32.327	N/A	58.102	74.000	-15.898	PK
			2390.000	25.775	32.327	-7.960	50.142	54.000	-3.858	AV
3		*	2461.810	54.119	32.280	N/A	86.399	114.000	-27.601	PK
			2461.810	54.119	32.280	-7.960	78.439	94.000	-15.561	AV
4			2483.500	26.309	32.340	N/A	58.649	74.000	-15.351	PK
			2483.500	26.309	32.340	-7.960	50.689	54.000	-3.311	AV
5			2489.265	28.302	32.362	N/A	60.664	74.000	-13.336	PK
			2489.265	28.302	32.362	-7.960	52.704	54.000	-1.296	AV

9 Test equipment list

List of Test Instruments

Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
C	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2019-8-6
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2019-8-6
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	848	2021-6-10
	Horn Antenna	Rohde & Schwarz	HF907	102393	2021-4-1
	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2019-8-6
	3m Semi-anechoic chamber	TDK	9X6X6	----	2021-5-10
CE	EMI Test Receiver	Rohde & Schwarz	ESR 3	101907	2019-8-6
	LISN	Rohde & Schwarz	ENV4200	100224	2019-8-6
	LISN	Rohde & Schwarz	ENV216	101924	2019-8-6

Test Site2

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2019/04/20
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2019/06/15
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2019/06/15
Thermohygrometer	Testo	608-H1	MRTSUE06404	1 year	2019/08/15
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	MRTSUE06214	N/A	N/A

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2019/08/14
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2019/09/14
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/20
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2019/04/12
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2019/10/20
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Broadband Coaxial Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2019/06/12
Digital Thermometer & Hygrometer	Testo	608-H1	MRTSUE06403	1 year	2019/08/15
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06213	1 year	2019/05/02

10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Test Site1

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, $\pm 2.73\text{dB}$
Radiated Disturbance	30MHz to 1GHz, $\pm 5.03\text{dB}$ (Horizontal) $\pm 5.11\text{dB}$ (Vertical) 1GHz to 18GHz, $\pm 5.15\text{dB}$ (Horizontal) $\pm 5.12\text{dB}$ (Vertical) 18GHz to 25GHz, $\pm 4.76\text{dB}$

Test Site2

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

150kHz~30MHz: 3.46dB

Radiated Emission Measurement – AC1

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

9kHz ~ 1GHz: 4.18dB

1GHz ~ 25GHz: 4.76dB

The End

