

7.8.5. Test Result

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Hunk Li	Relative Humidity	52%
Test Site	TR3	Test Date	2018/10/16

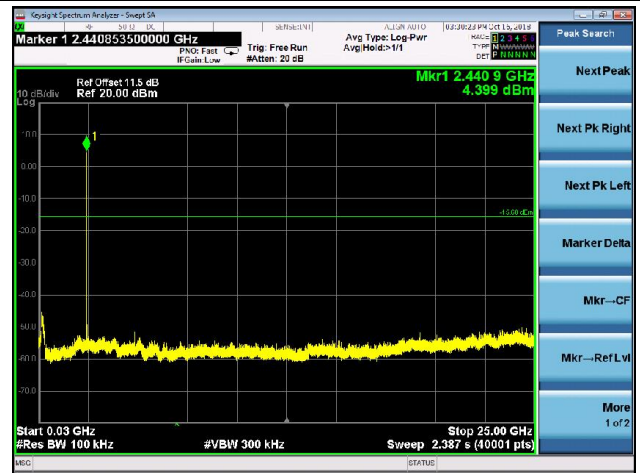
Test Mode	Channel No.	Frequency (MHz)	Limit (MHz)	Result
DH5	00	2402	20dBc	Pass
DH5	39	2441	20dBc	Pass
DH5	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
2DH5	39	2441	20dBc	Pass
2DH5	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
3DH5	39	2441	20dBc	Pass
3DH5	78	2480	20dBc	Pass

DH5 Conducted Spurious Emissions

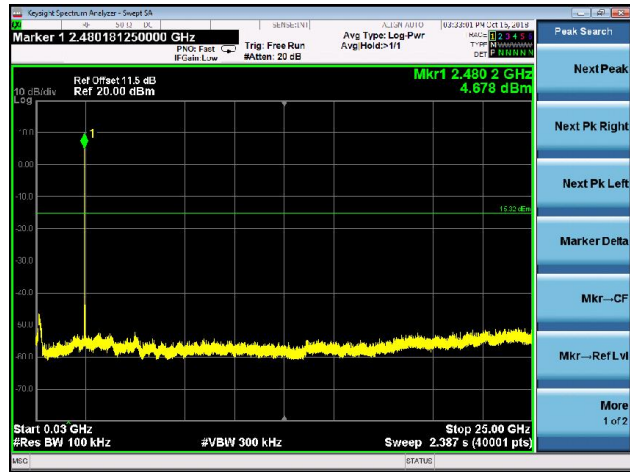
Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)

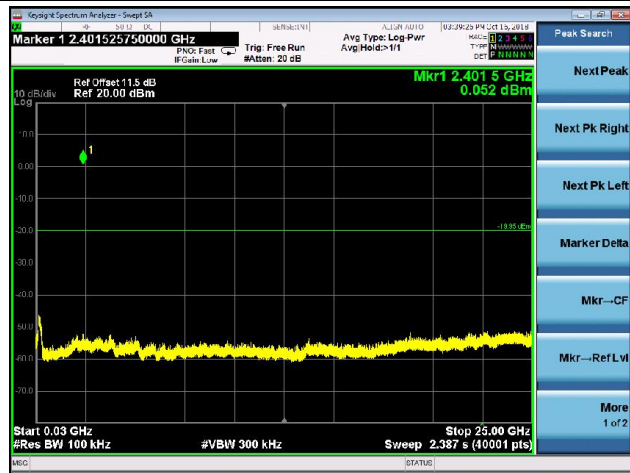


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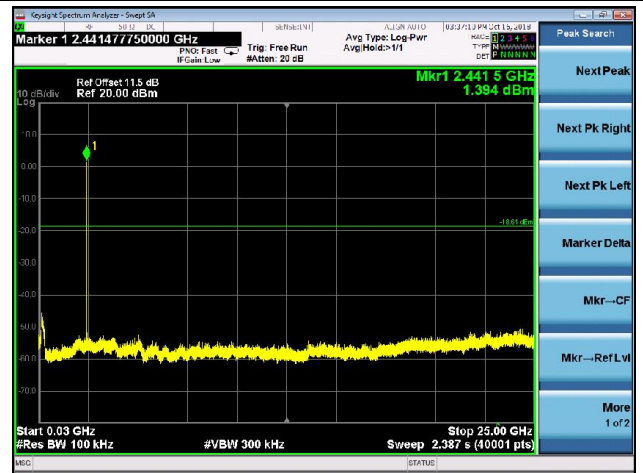
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2DH5 Conducted Spurious Emissions

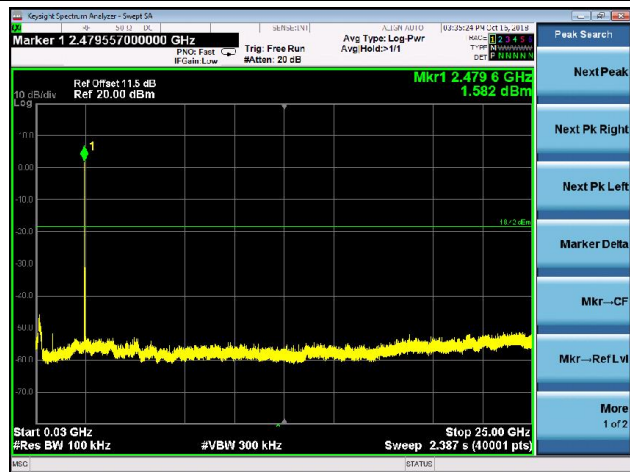
Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)

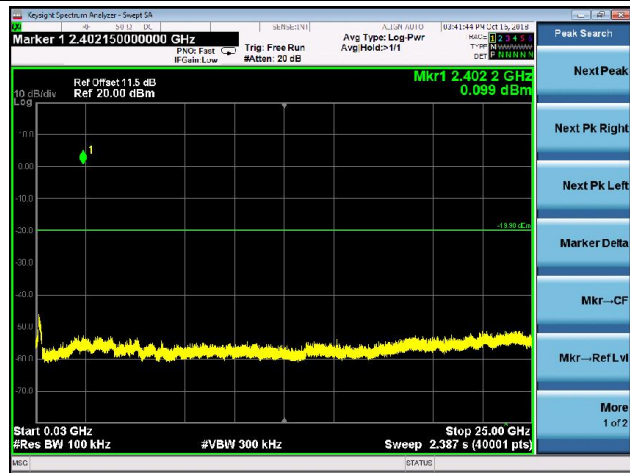


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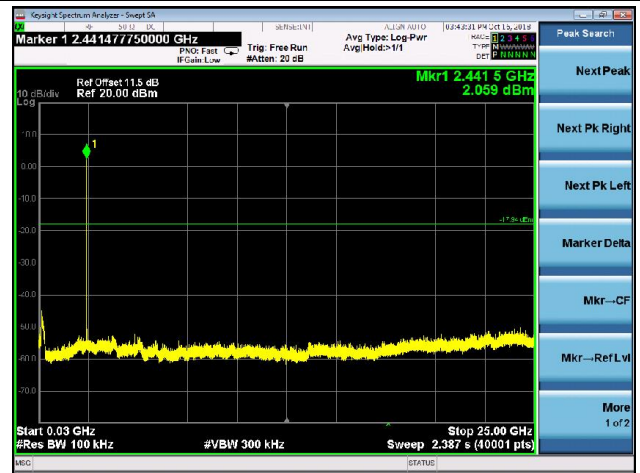
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3DH5 Conducted Spurious Emissions

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



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7.9. Radiated Spurious Emission Measurement

7.9.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.9.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.9.3. Test Setting

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Peak Measurements above 1GHz

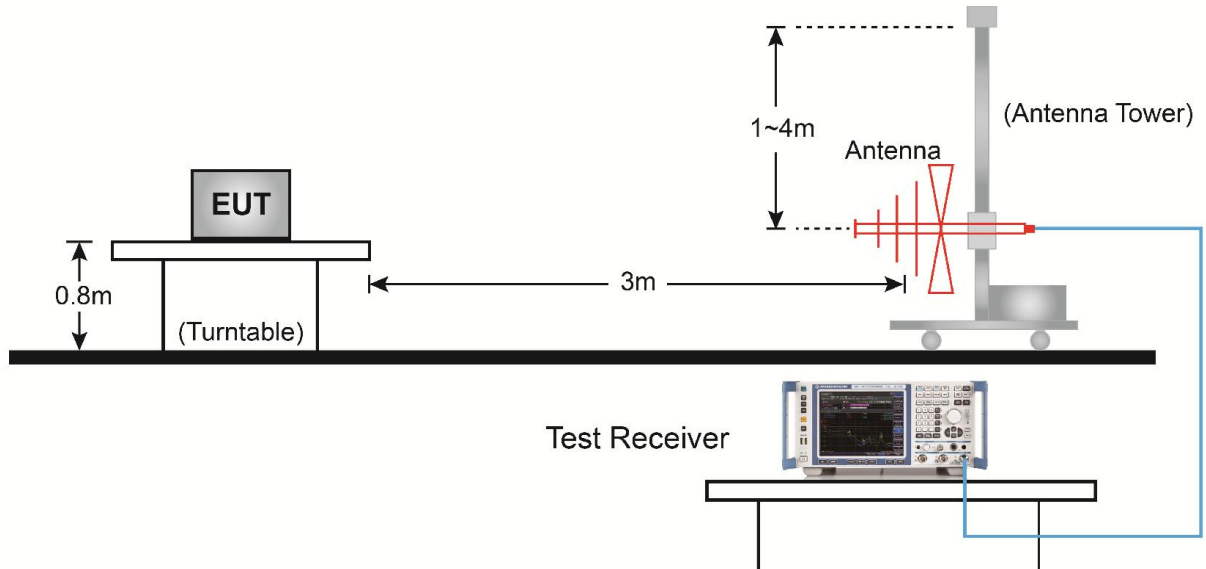
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

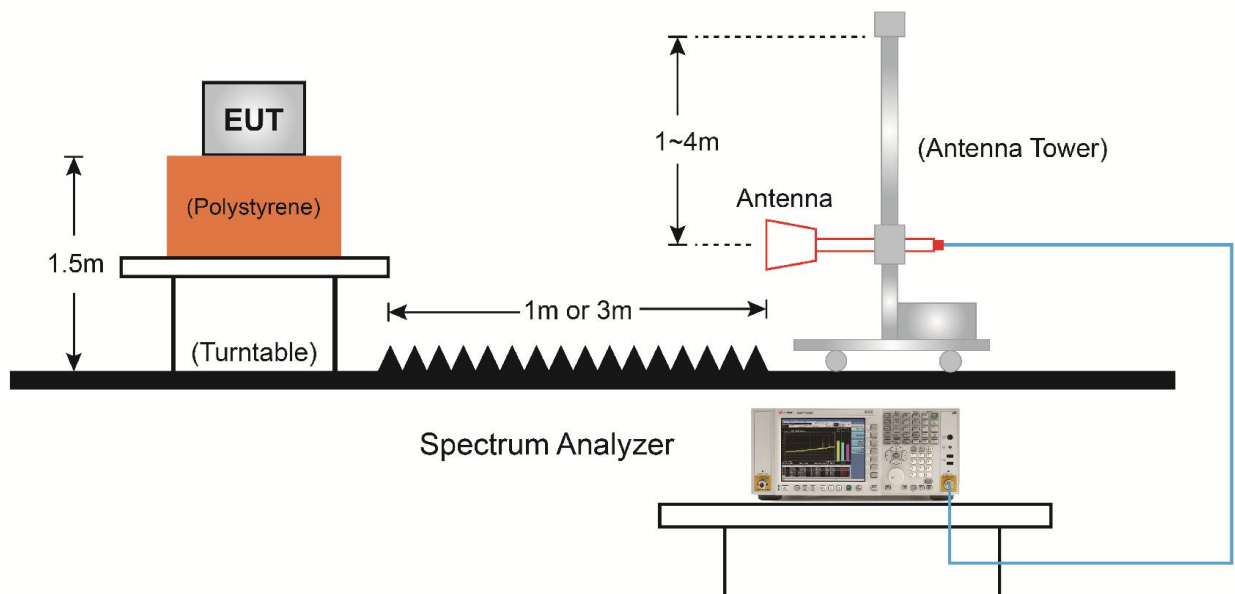
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.9.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.9.5. Test Result

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	DH5	Test Channel:	00
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	6295.5	37.4	8.7	46.1	77.3	-31.2	Peak	Horizontal
*	8905.0	37.2	13.3	50.5	77.3	-26.8	Peak	Horizontal
	10962.0	36.4	18.2	54.6	74.0	-19.4	Peak	Horizontal
	11531.5	36.1	17.8	53.9	74.0	-20.1	Peak	Horizontal
*	7162.5	36.1	12.5	48.6	77.3	-28.7	Peak	Vertical
*	10188.5	35.6	17.1	52.7	77.3	-24.6	Peak	Vertical
	10962.0	36.4	18.2	54.6	74.0	-19.4	Peak	Vertical
	11956.5	35.9	17.3	53.2	74.0	-20.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.3dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	DH5	Test Channel:	39
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7162.5	36.8	12.5	49.3	77.7	-28.4	Peak	Horizontal
*	8726.5	36.1	13.0	49.1	77.7	-28.6	Peak	Horizontal
	10698.5	34.9	17.7	52.6	74.0	-21.4	Peak	Horizontal
	12186.0	35.2	17.5	52.7	74.0	-21.3	Peak	Horizontal
*	7043.5	36.3	11.7	48.0	77.7	-29.7	Peak	Vertical
*	10341.5	35.1	17.3	52.4	77.7	-25.3	Peak	Vertical
	10868.5	35.4	18.1	53.5	74.0	-20.5	Peak	Vertical
	12016.0	35.3	17.4	52.7	74.0	-21.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.7dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	DH5	Test Channel:	78
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	6550.5	36.9	10.2	47.1	78.2	-31.1	Peak	Horizontal
*	9933.5	34.5	16.7	51.2	78.2	-27.0	Peak	Horizontal
	11166.0	35.8	17.7	53.5	74.0	-20.5	Peak	Horizontal
	12024.5	35.7	17.4	53.1	74.0	-20.9	Peak	Horizontal
*	6865.0	36.2	10.6	46.8	78.2	-31.4	Peak	Vertical
*	9857.0	34.7	16.7	51.4	78.2	-26.8	Peak	Vertical
	10919.5	34.7	18.2	52.9	74.0	-21.1	Peak	Vertical
	12143.5	35.1	17.5	52.6	74.0	-21.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	2DH5	Test Channel:	00
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7111.5	36.7	12.2	48.9	78.2	-29.3	Peak	Horizontal
*	9840.0	35.2	16.7	51.9	78.2	-26.3	Peak	Horizontal
	10928.0	35.5	18.2	53.7	74.0	-20.3	Peak	Horizontal
	12118.0	35.0	17.5	52.5	74.0	-21.5	Peak	Horizontal
*	6924.5	36.1	11.0	47.1	78.2	-31.1	Peak	Vertical
*	10171.5	34.8	17.0	51.8	78.2	-26.4	Peak	Vertical
	11438.0	35.1	17.8	52.9	74.0	-21.1	Peak	Vertical
	12245.5	34.6	17.4	52.0	74.0	-22.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	2DH5	Test Channel:	39
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	6967.0	35.6	11.1	46.7	78.6	-31.9	Peak	Horizontal
*	9976.0	34.9	16.7	51.6	78.6	-27.0	Peak	Horizontal
	10936.5	35.2	18.3	53.5	74.0	-20.5	Peak	Horizontal
	11735.5	35.3	17.3	52.6	74.0	-21.4	Peak	Horizontal
*	7128.5	36.0	12.3	48.3	78.6	-30.3	Peak	Vertical
*	10409.5	35.3	17.3	52.6	78.6	-26.0	Peak	Vertical
	11353.0	36.1	17.6	53.7	74.0	-20.3	Peak	Vertical
	11990.5	35.2	17.4	52.6	74.0	-21.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.6dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	2DH5	Test Channel:	78
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7128.5	36.0	12.3	48.3	79.1	-30.8	Peak	Horizontal
*	10163.0	35.0	17.0	52.0	79.1	-27.1	Peak	Horizontal
	10911.0	35.1	18.2	53.3	74.0	-20.7	Peak	Horizontal
	11633.5	35.8	17.6	53.4	74.0	-20.6	Peak	Horizontal
*	6984.0	34.3	11.2	45.5	79.1	-33.6	Peak	Vertical
*	9848.5	35.0	16.7	51.7	79.1	-27.4	Peak	Vertical
	10843.0	35.6	18.1	53.7	74.0	-20.3	Peak	Vertical
	12118.0	35.5	17.5	53.0	74.0	-21.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.1dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	3DH5	Test Channel:	00
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7196.5	35.4	12.5	47.9	78.5	-30.6	Peak	Horizontal
*	10018.5	35.9	16.6	52.5	78.5	-26.0	Peak	Horizontal
	10783.5	36.1	17.9	54.0	74.0	-20.0	Peak	Horizontal
	12211.5	35.8	17.4	53.2	74.0	-20.8	Peak	Horizontal
*	7145.5	36.1	12.4	48.5	78.5	-30.0	Peak	Vertical
*	9933.5	35.1	16.7	51.8	78.5	-26.7	Peak	Vertical
	10945.0	34.9	18.3	53.2	74.0	-20.8	Peak	Vertical
	12050.0	35.5	17.4	52.9	74.0	-21.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.5dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	3DH5	Test Channel:	39
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7162.5	36.2	12.5	48.7	78.9	-30.2	Peak	Horizontal
*	9976.0	34.8	16.7	51.5	78.9	-27.4	Peak	Horizontal
	11098.0	34.9	17.8	52.7	74.0	-21.3	Peak	Horizontal
	12067.0	34.6	17.5	52.1	74.0	-21.9	Peak	Horizontal
*	7154.0	35.8	12.4	48.2	78.9	-30.7	Peak	Vertical
*	10103.5	34.5	16.9	51.4	78.9	-27.5	Peak	Vertical
	11140.5	36.2	17.7	53.9	74.0	-20.1	Peak	Vertical
	12152.0	35.1	17.5	52.6	74.0	-21.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	FREKVENS Speaker	Temperature	25°C
Test Engineer	Cloud Guo	Relative Humidity	56%
Test Site	AC1	Test Date	2018/10/24
Test Mode:	3DH5	Test Channel:	78
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7145.5	35.6	12.4	48.0	79.4	-31.4	Peak	Horizontal
*	9950.5	34.9	16.7	51.6	79.4	-27.8	Peak	Horizontal
	10809.0	35.1	18.0	53.1	74.0	-20.9	Peak	Horizontal
	12075.5	34.8	17.5	52.3	74.0	-21.7	Peak	Horizontal
*	7171.0	36.3	12.5	48.8	79.4	-30.6	Peak	Vertical
*	10231.0	35.3	17.1	52.4	79.4	-27.0	Peak	Vertical
	11591.0	35.6	17.7	53.3	74.0	-20.7	Peak	Vertical
	12339.0	35.0	17.3	52.3	74.0	-21.7	Peak	Vertical

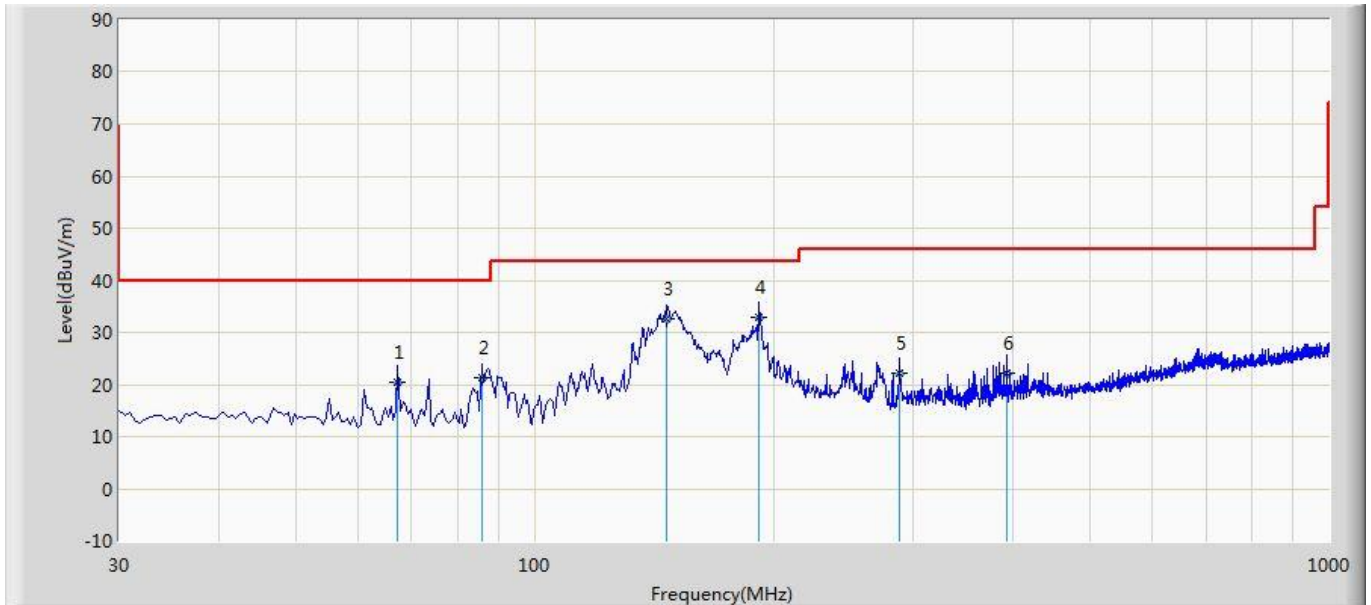
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.4dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2018/10/24 - 08:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Worst Case	



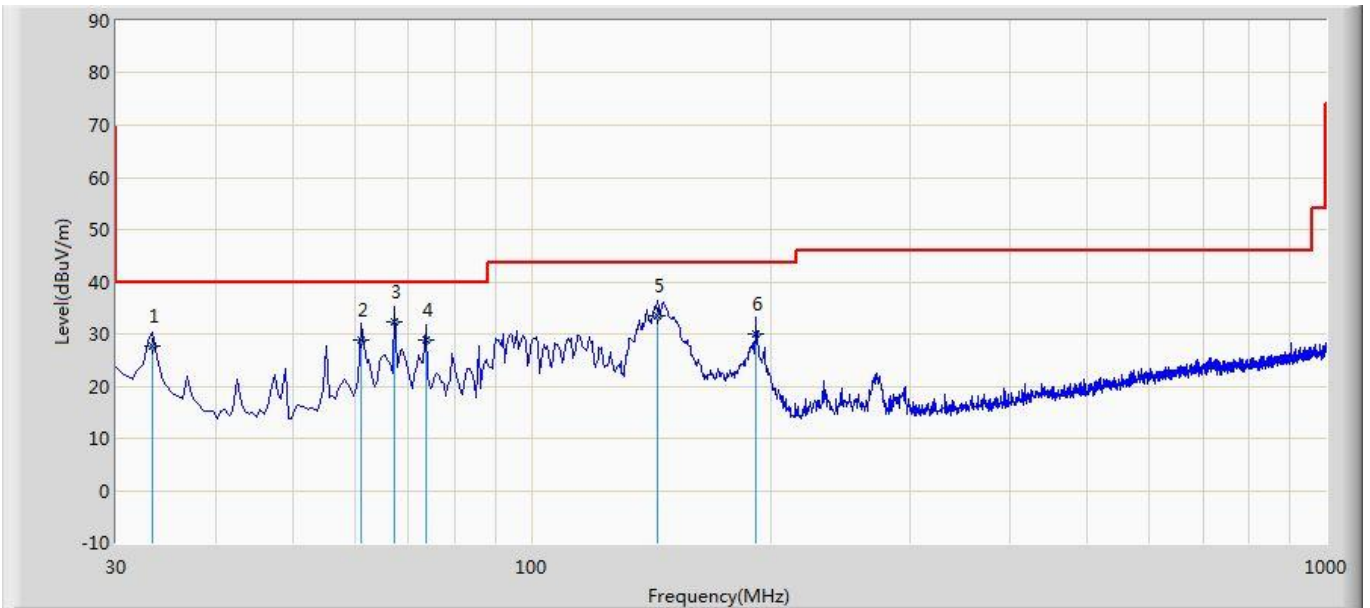
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			67.345	20.499	8.413	-19.501	40.000	12.086	QP
2			85.775	21.201	10.968	-18.799	40.000	10.234	QP
3		*	146.400	32.668	17.634	-10.832	43.500	15.034	QP
4			191.990	33.030	21.406	-10.470	43.500	11.624	QP
5			288.020	22.065	7.964	-23.935	46.000	14.101	QP
6			393.265	22.289	5.837	-23.711	46.000	16.452	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report

Site: AC1	Time: 2018/10/24 - 08:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Worst Case	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			33.395	27.683	13.812	-12.317	40.000	13.871	QP
2			61.040	28.979	15.726	-11.021	40.000	13.253	QP
3			67.345	32.236	20.150	-7.764	40.000	12.086	QP
4		*	73.650	28.973	17.924	-11.027	40.000	11.049	QP
5			143.975	33.400	18.534	-10.100	43.500	14.866	QP
6			191.990	29.895	18.271	-13.605	43.500	11.624	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.10. Radiated Restricted Band Edge Measurement

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	149.9 -150.5	9.0 - 9.2
0.495 -0.505	156.52475 - 156.525225	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	--
8.37625 - 8.38675	1718.8 -1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 -2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 -13.41	3260 - 3267	
16.42 - 16.423	3332 -3339	
16.69475 - 16.69525	334.5 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9			
Frequency [MHz]	Magnetic field strength (H-Field) [uA/m]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	6.37/F(F in kHz)	N/A	300
0.490 - 1.705	63.7/F(F in kHz)	N/A	30
1.705 - 30	0.08	N/A	30
30 - 88	N/A	100	3
88 - 216	N/A	150	3
216 - 960	N/A	200	3
Above 960	N/A	500	3

7.10.1.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.10.2.Test Setting

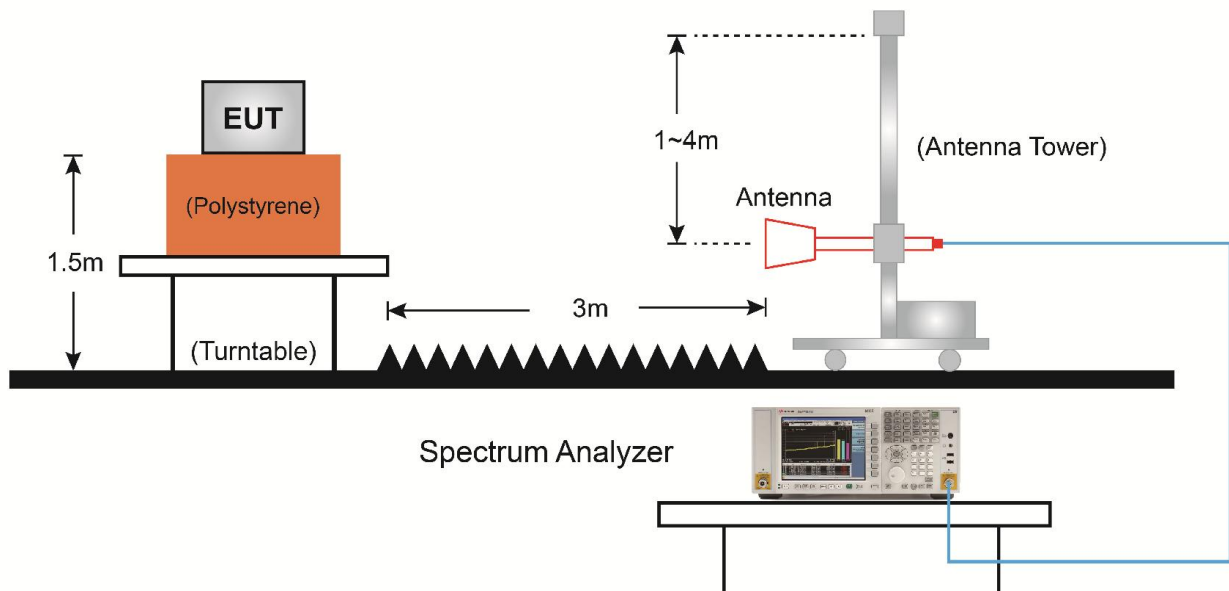
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

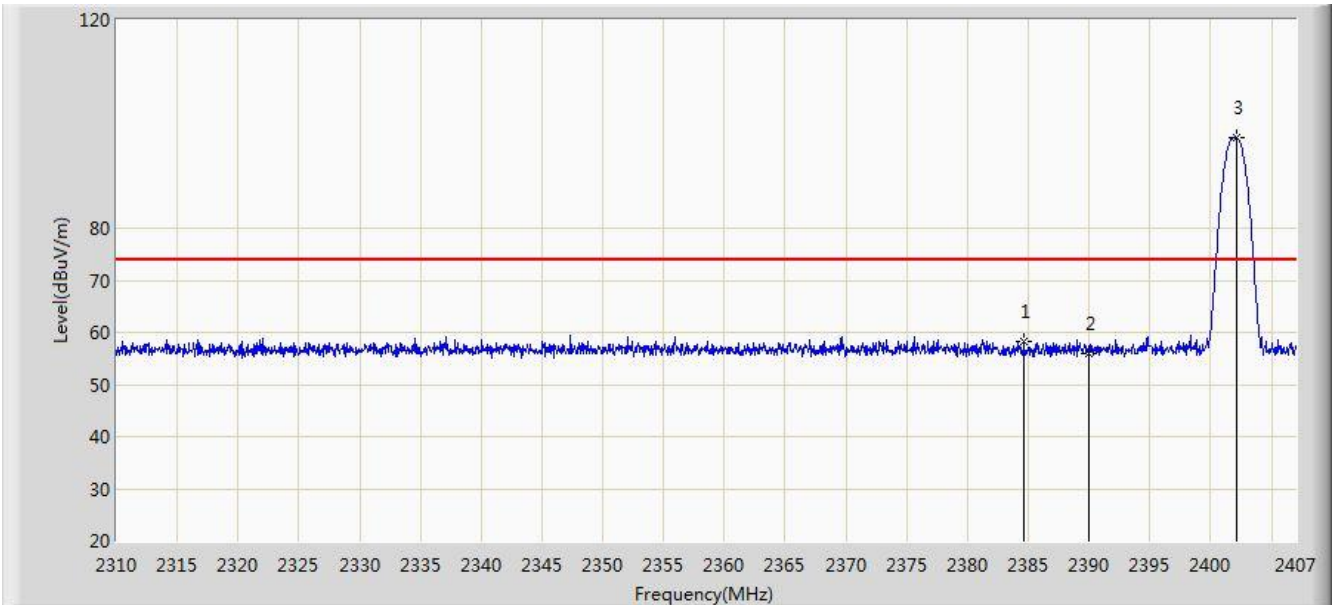
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.10.3.Test Setup



7.10.4.Test Result

Site: AC1	Time: 2018/10/24 - 02:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2402MHz	

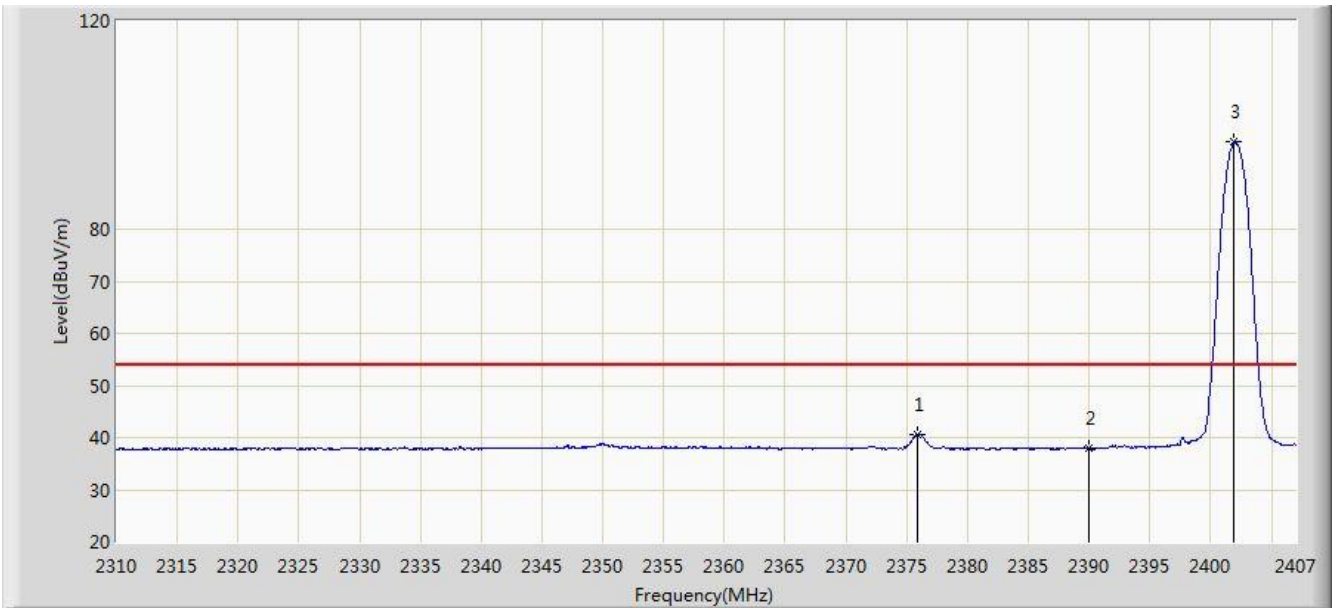


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.690	58.116	25.782	-15.884	74.000	32.334	PK
2			2390.000	56.015	23.688	-17.985	74.000	32.327	PK
3		*	2402.102	97.336	65.032	N/A	N/A	32.304	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2402MHz	

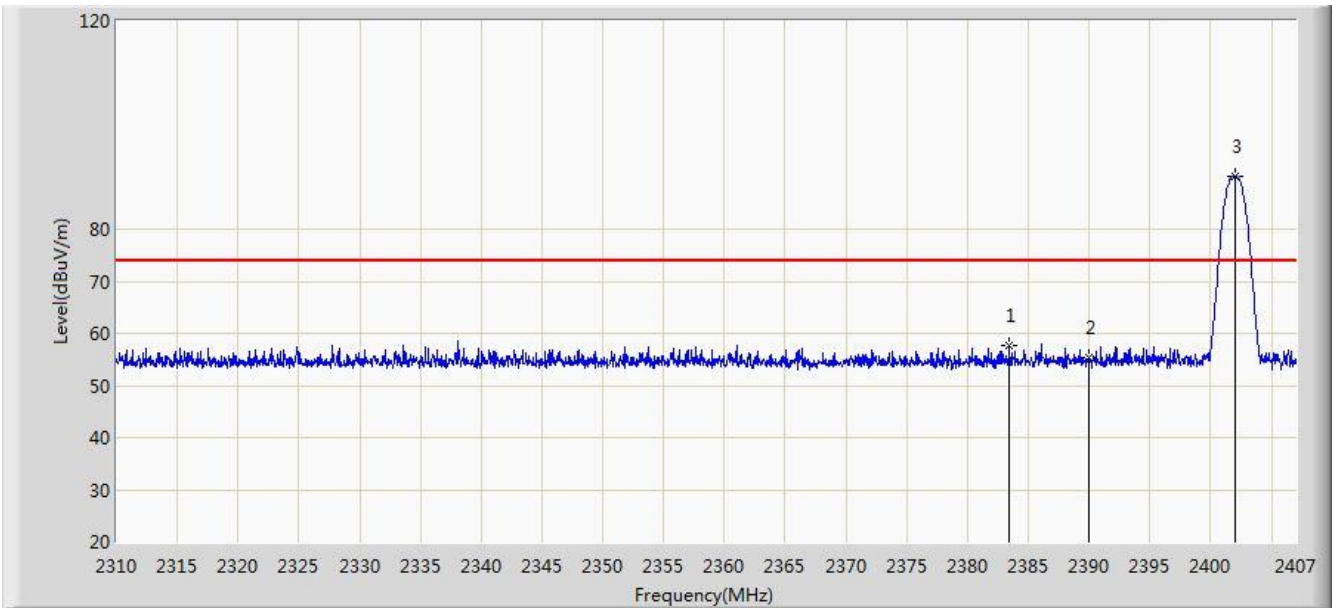


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2375.863	40.656	8.309	-13.344	54.000	32.347	AV
2			2390.000	38.006	5.679	-15.994	54.000	32.327	AV
3		*	2401.907	96.693	64.388	N/A	N/A	32.305	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVENs Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2402MHz	

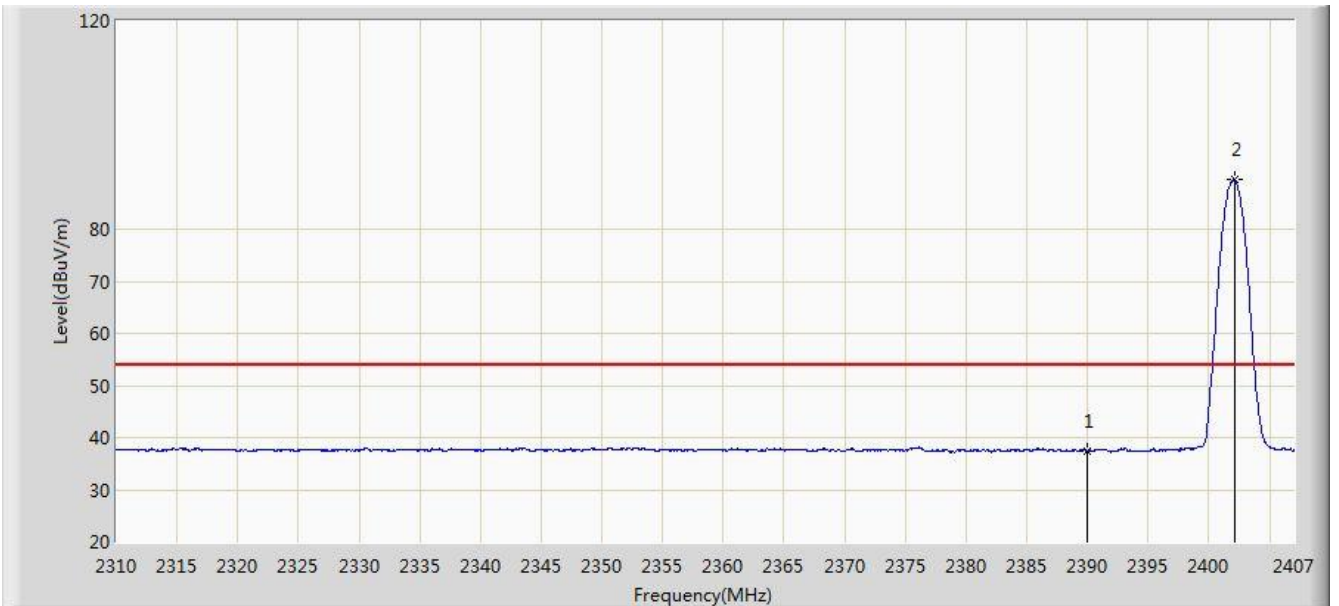


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.429	57.733	25.397	-16.267	74.000	32.336	PK
2			2390.000	55.228	22.901	-18.772	74.000	32.327	PK
3		*	2401.956	90.035	57.730	N/A	N/A	32.305	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2402MHz	

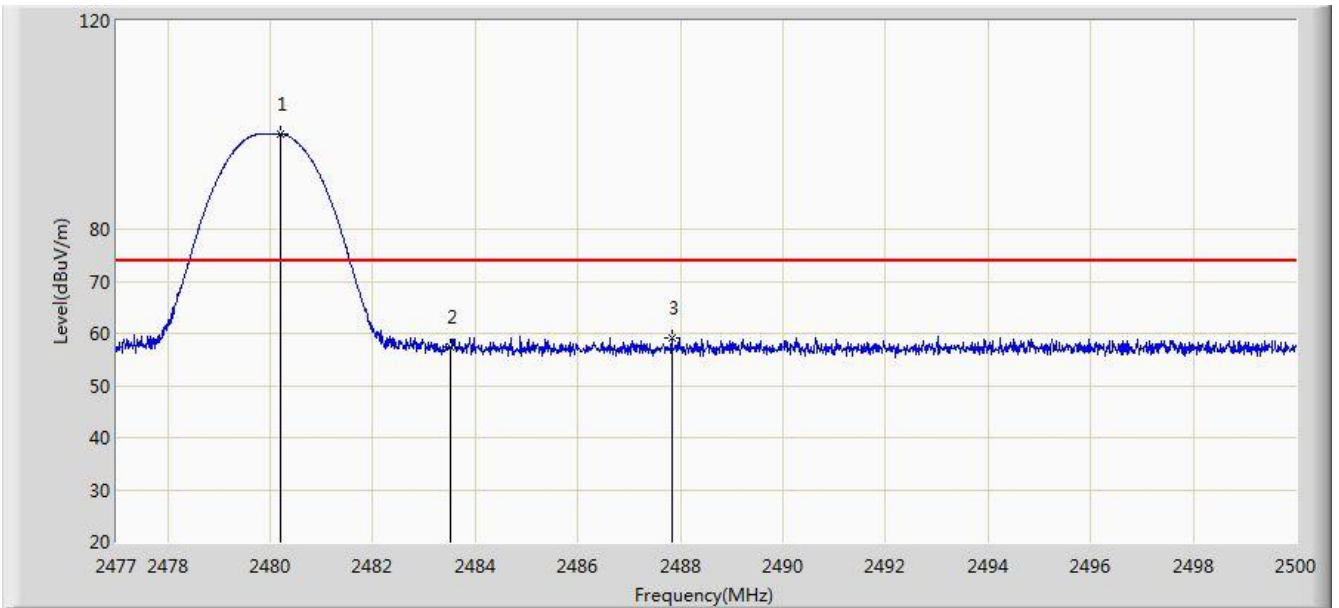


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	37.377	5.050	-16.623	54.000	32.327	AV
2		*	2402.102	89.477	57.173	N/A	N/A	32.304	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2480MHz	

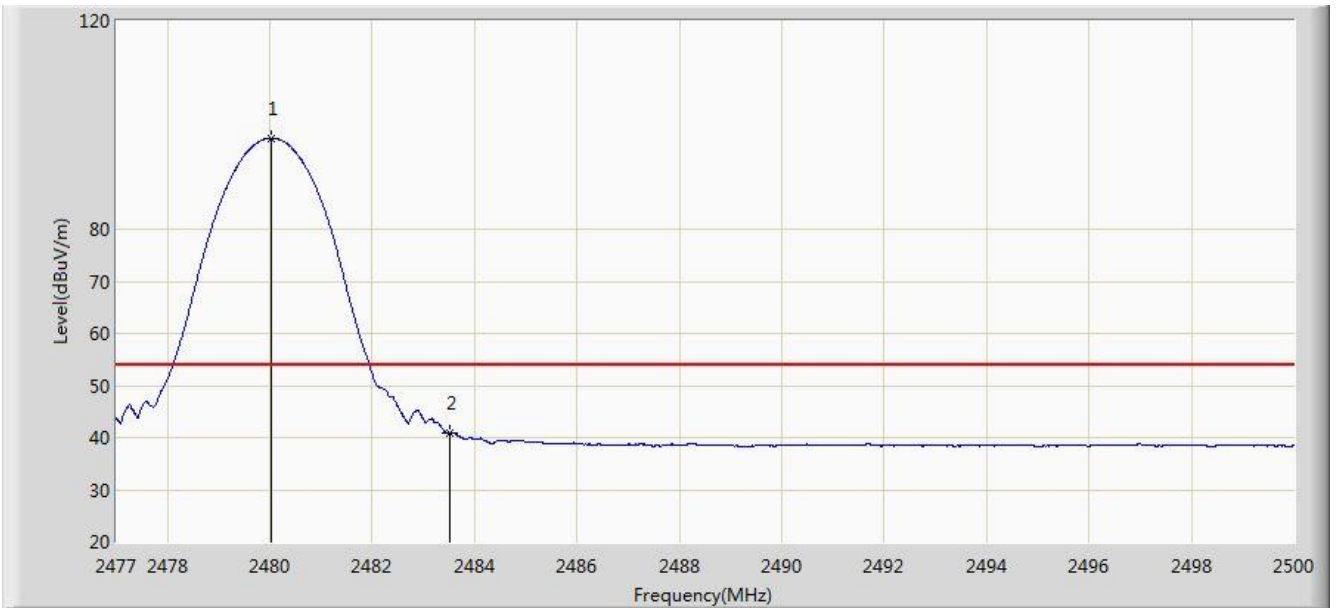


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.208	98.198	65.872	N/A	N/A	32.327	PK
2			2483.500	57.277	24.938	-16.723	74.000	32.340	PK
3			2487.833	59.086	26.730	-14.914	74.000	32.356	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2480MHz	

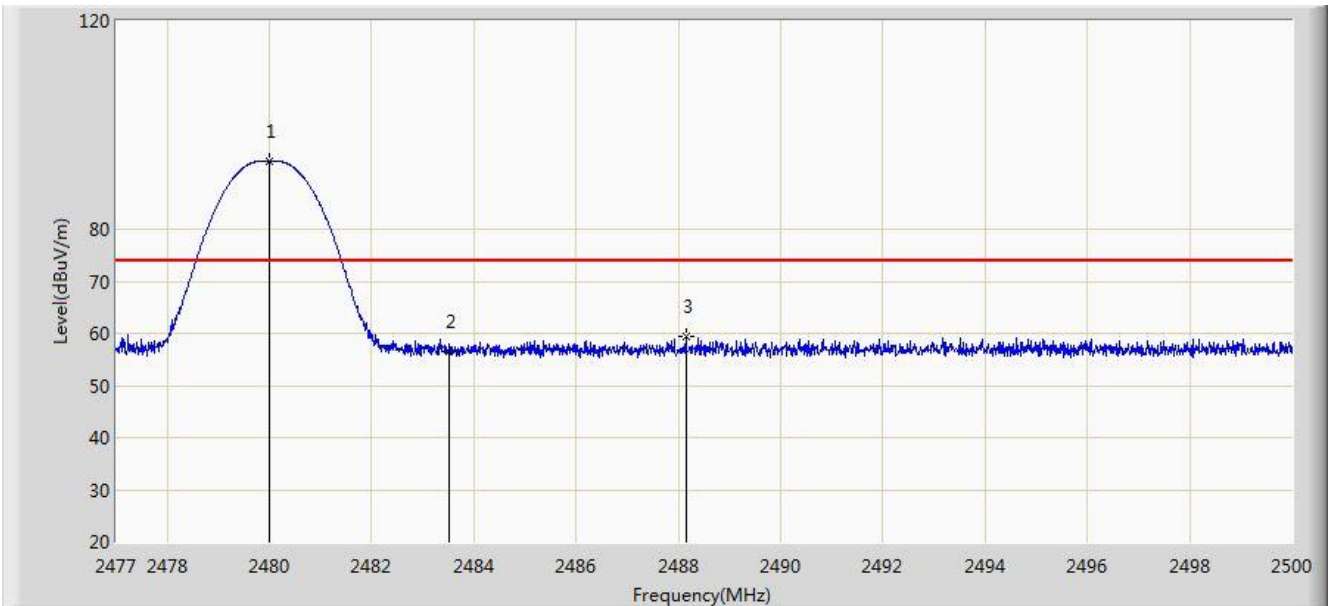


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.013	97.485	65.160	N/A	N/A	32.325	AV
2			2483.500	40.759	8.420	-13.241	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2480MHz	

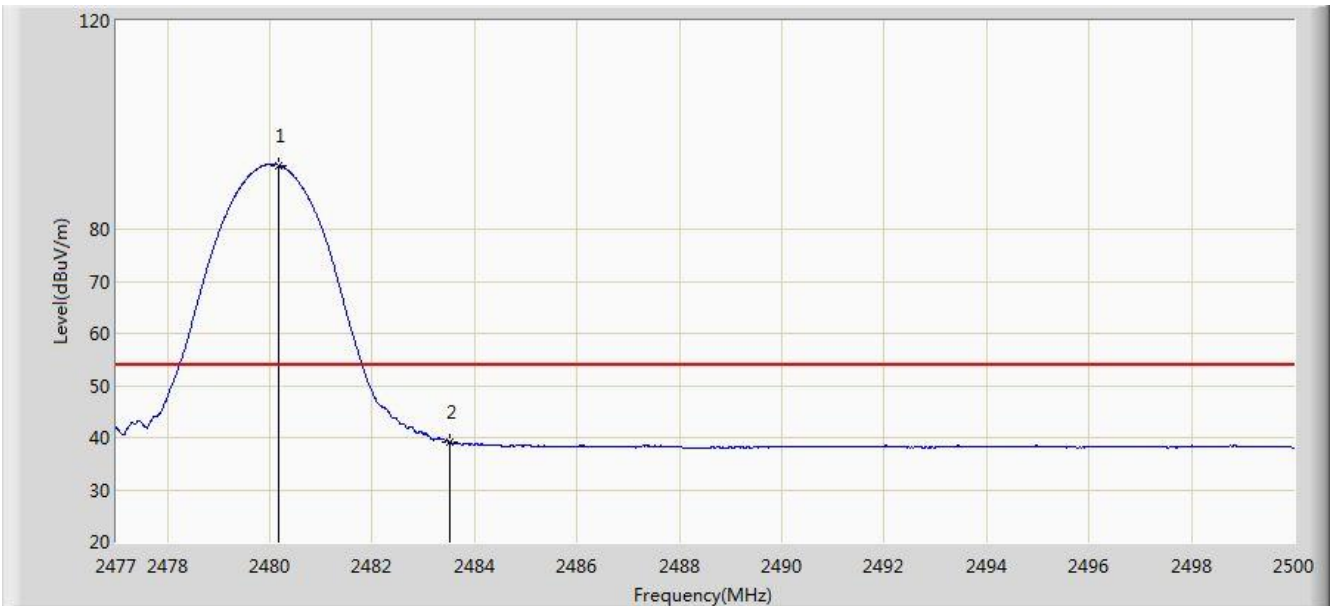


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.990	92.970	60.645	N/A	N/A	32.325	PK
2			2483.500	56.398	24.059	-17.602	74.000	32.340	PK
3			2488.144	59.392	27.035	-14.608	74.000	32.357	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 DH5 at channel 2480MHz	

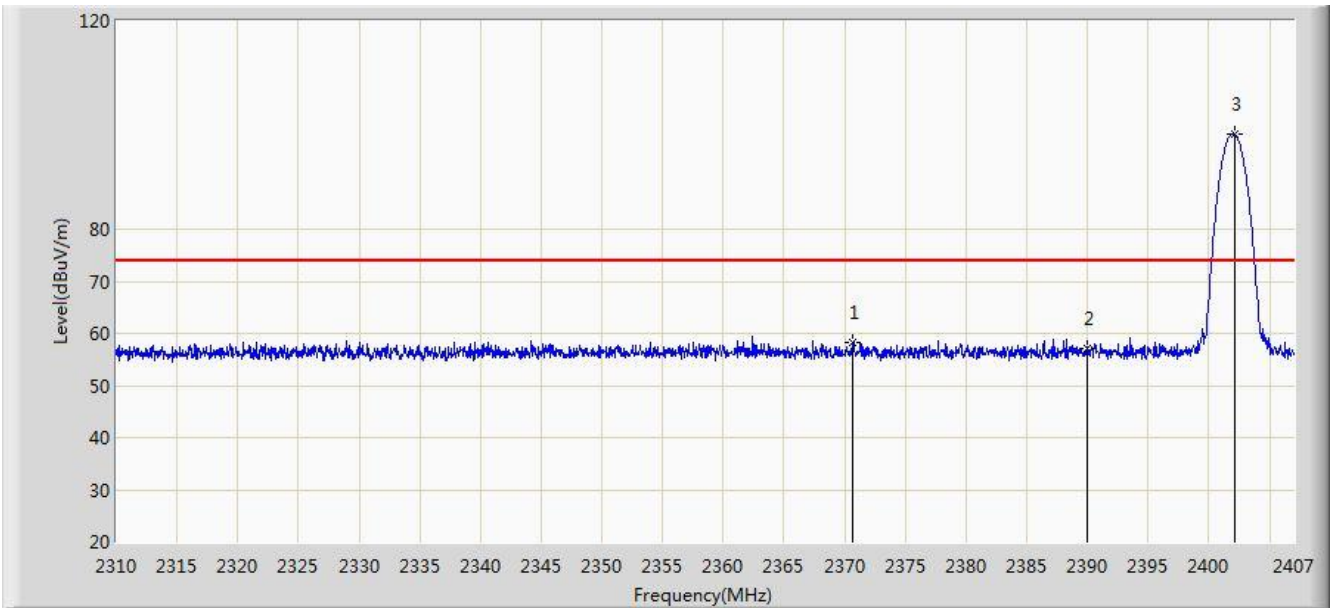


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.174	92.246	59.920	N/A	N/A	32.326	AV
2			2483.500	39.075	6.736	-14.925	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2402MHz	

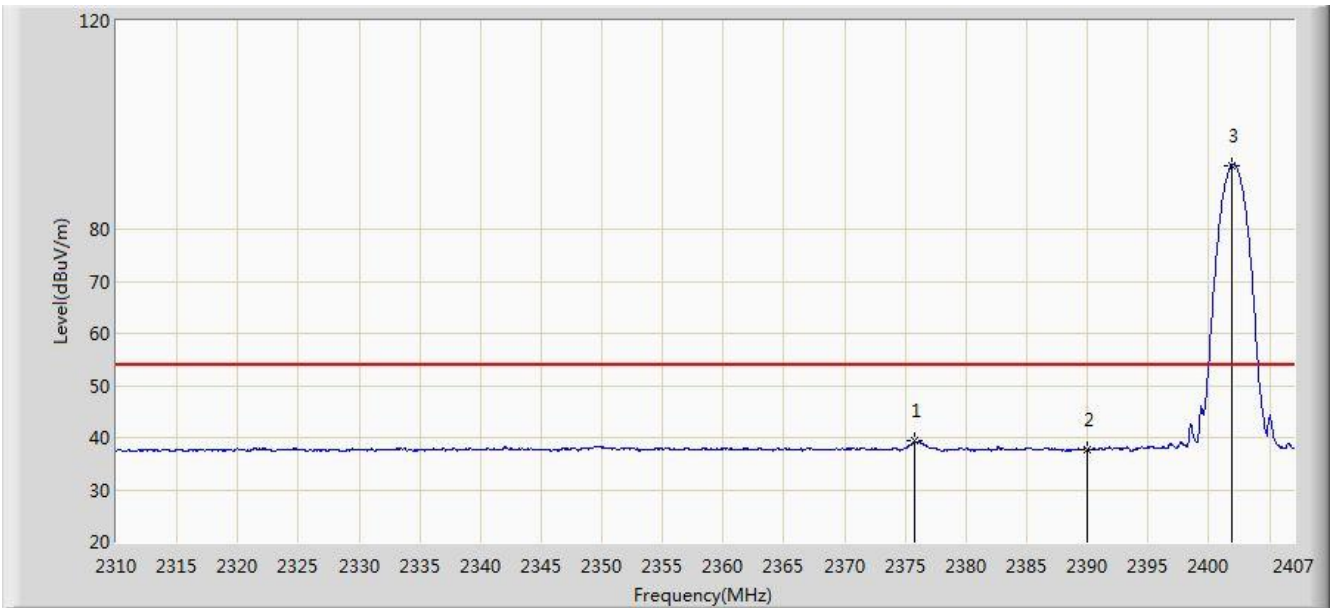


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2370.625	58.245	25.888	-15.755	74.000	32.356	PK
2			2390.000	57.050	24.723	-16.950	74.000	32.327	PK
3		*	2402.102	98.245	65.941	N/A	N/A	32.304	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2402MHz	

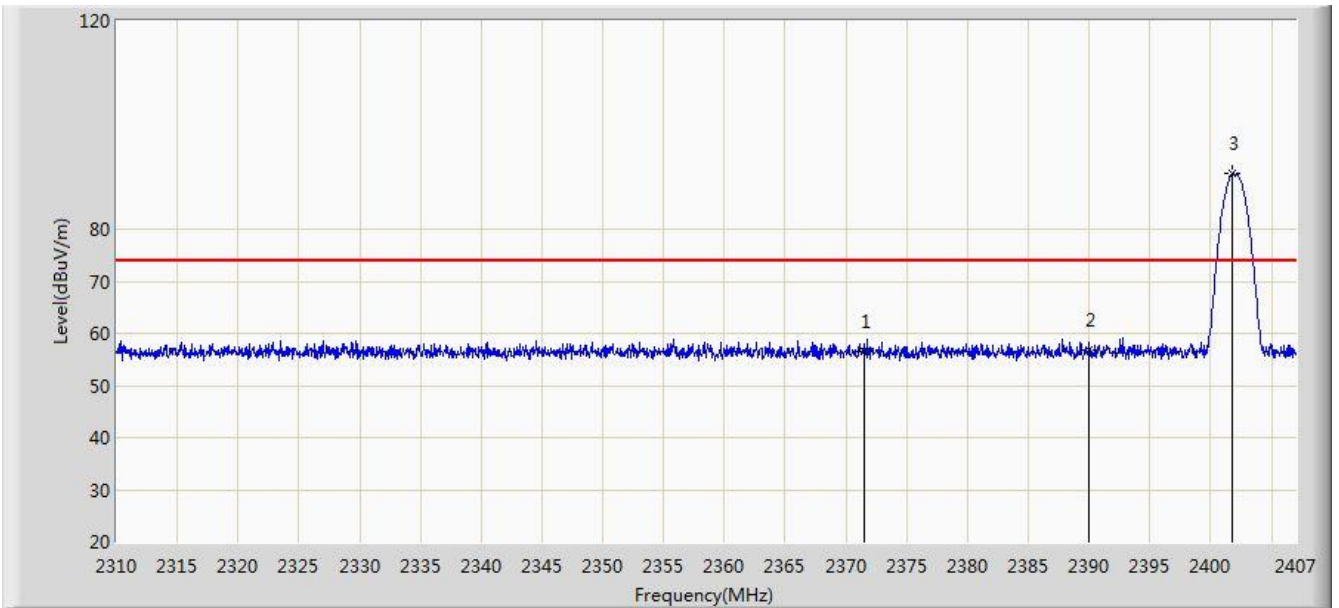


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2375.766	39.345	6.998	-14.655	54.000	32.347	AV
2			2390.000	37.656	5.329	-16.344	54.000	32.327	AV
3		*	2401.859	92.279	59.974	N/A	N/A	32.305	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2402MHz	

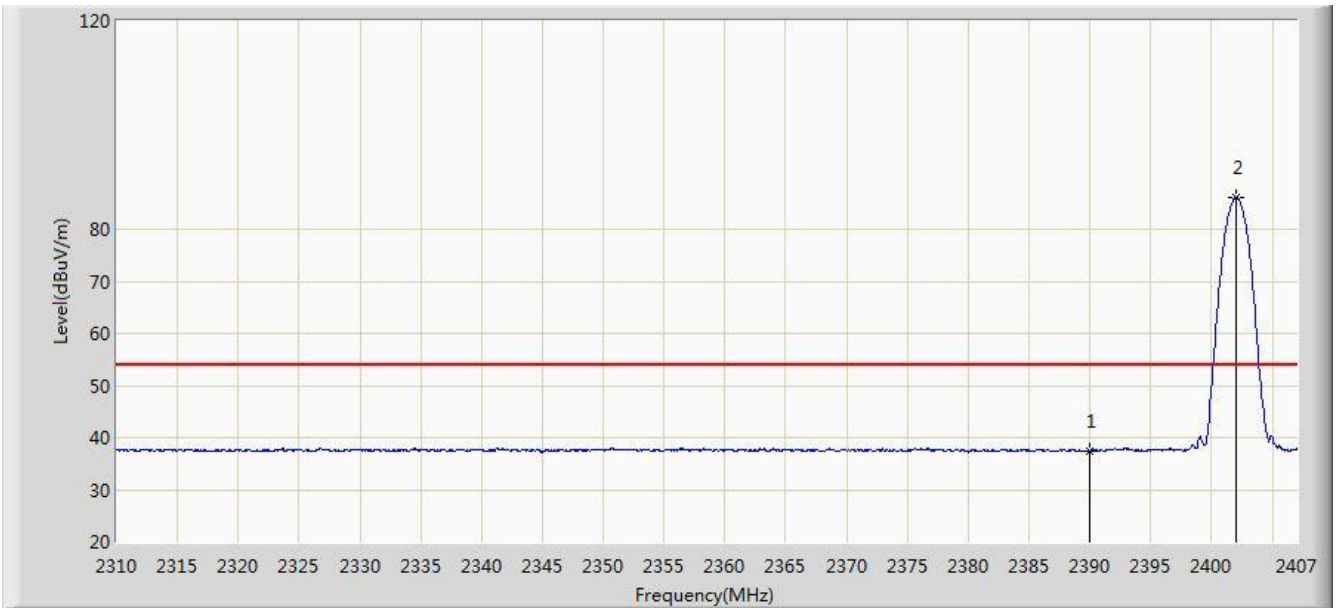


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2371.498	56.382	24.027	-17.618	74.000	32.355	PK
2			2390.000	56.826	24.499	-17.174	74.000	32.327	PK
3		*	2401.811	90.657	58.352	N/A	N/A	32.305	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2402MHz	

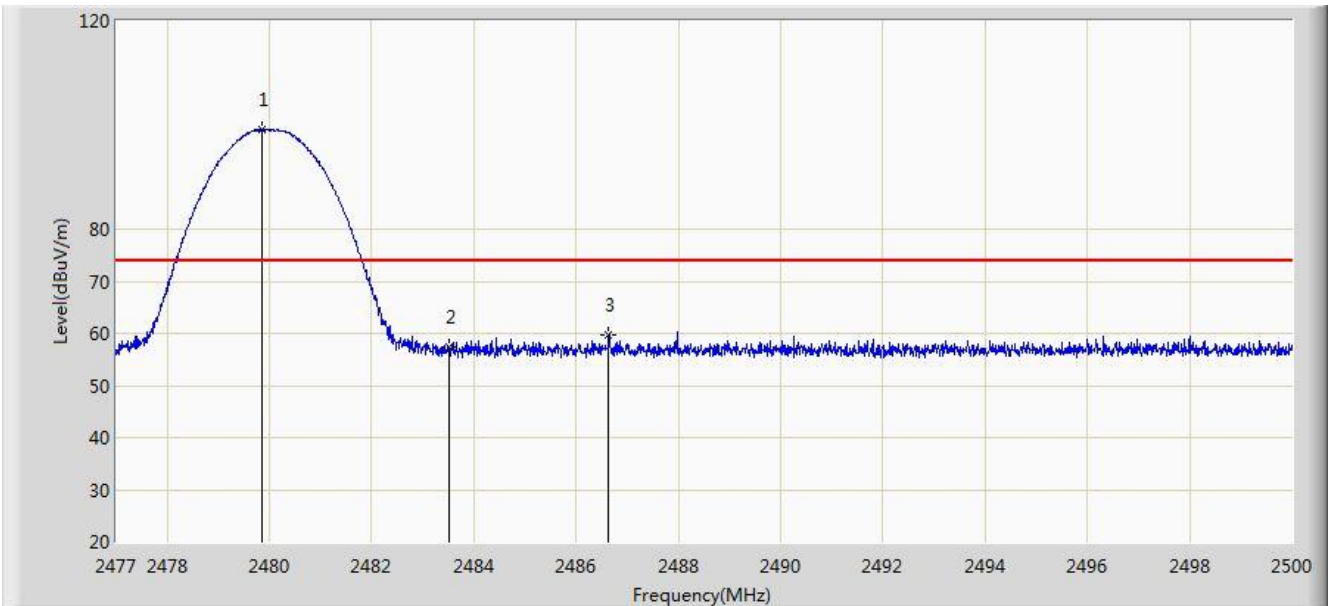


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	37.513	5.186	-16.487	54.000	32.327	AV
2		*	2402.053	86.120	53.816	N/A	N/A	32.304	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2480MHz	

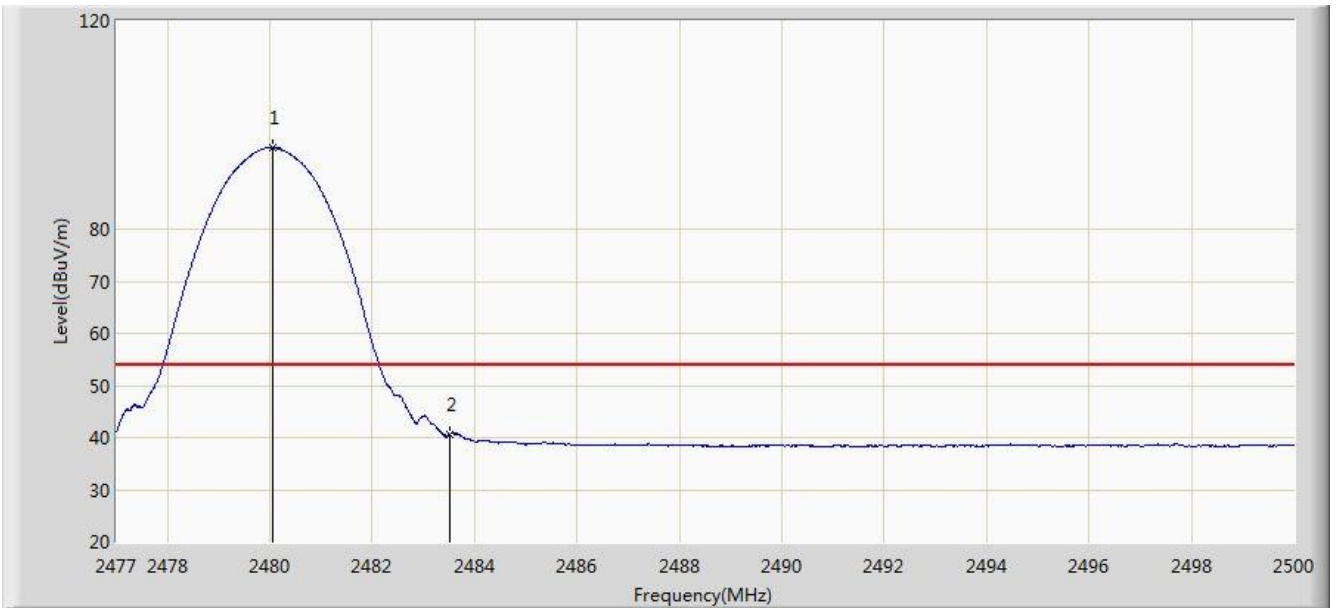


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.852	99.140	66.815	N/A	N/A	32.325	PK
2			2483.500	57.365	25.026	-16.635	74.000	32.340	PK
3			2486.637	59.688	27.337	-14.312	74.000	32.351	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2480MHz	

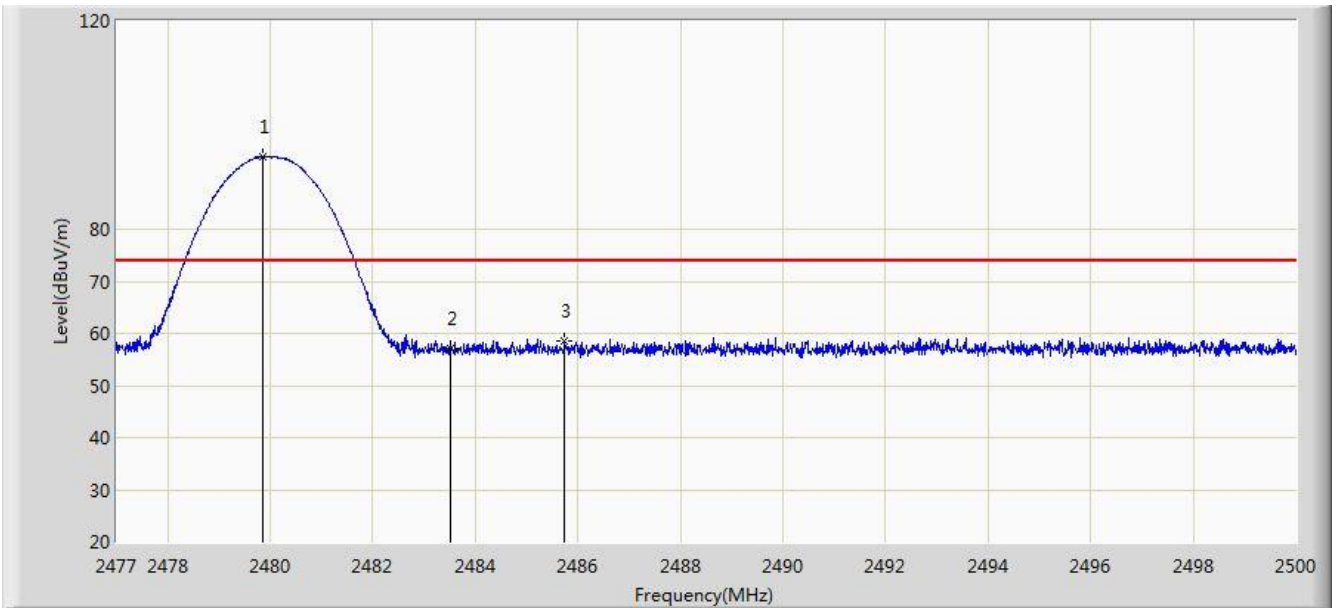


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.059	95.652	63.326	N/A	N/A	32.325	AV
2			2483.500	40.540	8.201	-13.460	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2480MHz	

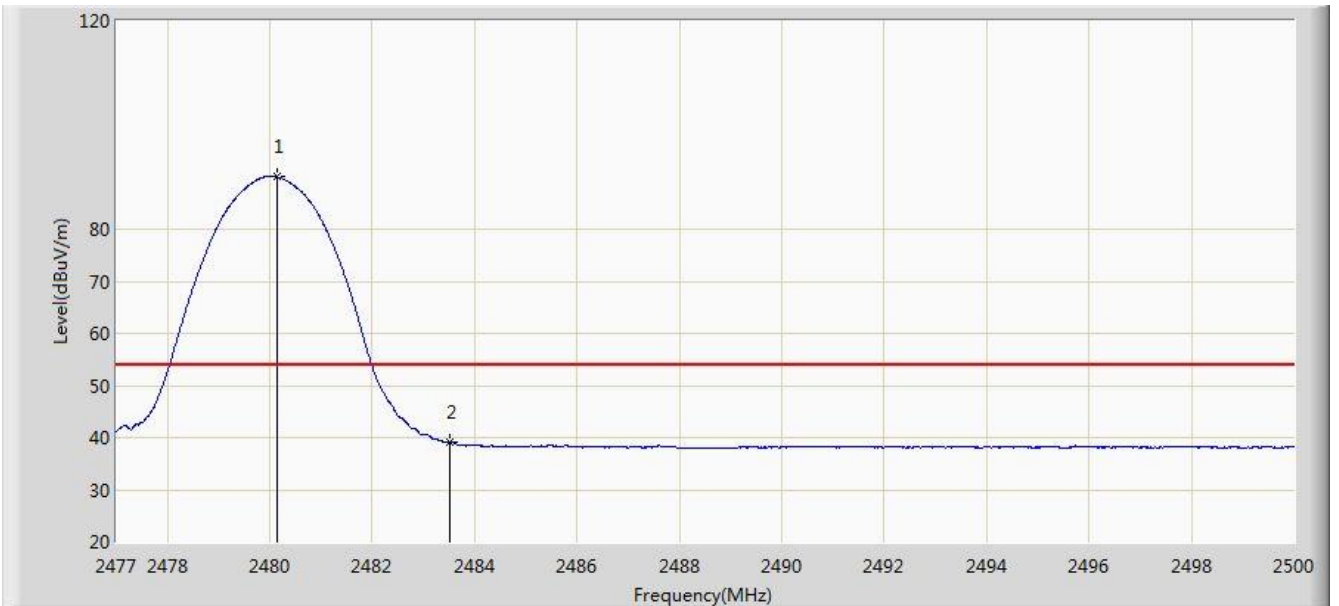


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.852	93.948	61.623	N/A	N/A	32.325	PK
2			2483.500	57.051	24.712	-16.949	74.000	32.340	PK
3			2485.740	58.611	26.263	-15.389	74.000	32.348	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 2DH5 at channel 2480MHz	

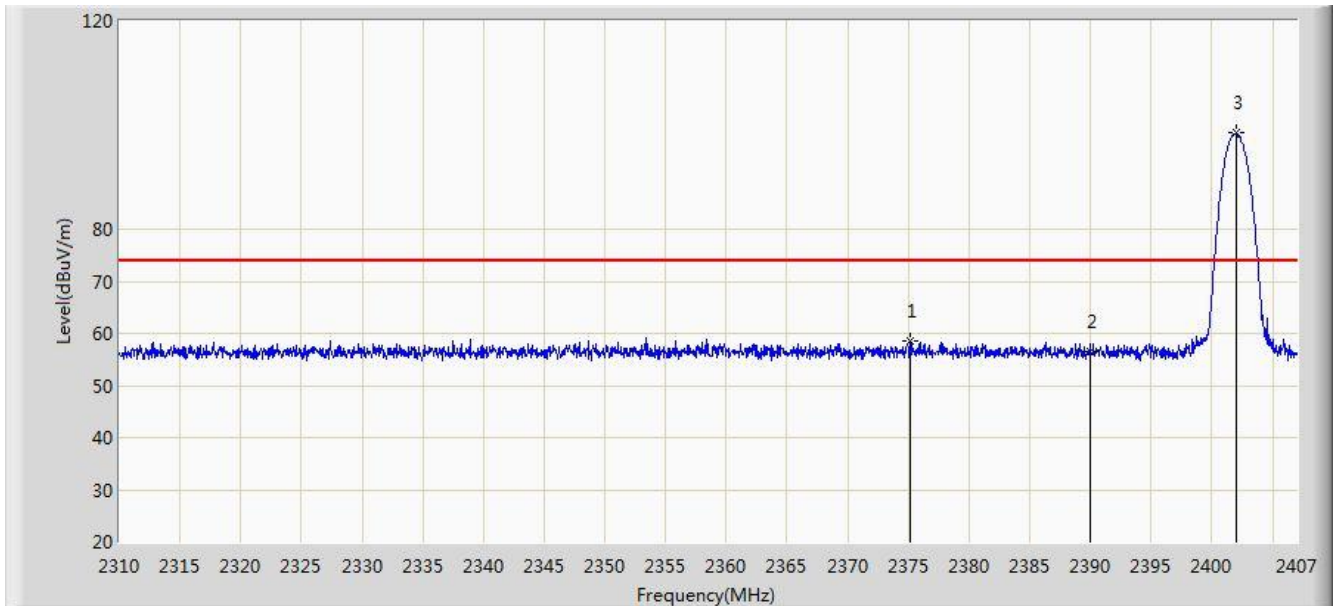


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.139	90.033	57.707	N/A	N/A	32.326	AV
2			2483.500	39.233	6.894	-14.767	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2402MHz	

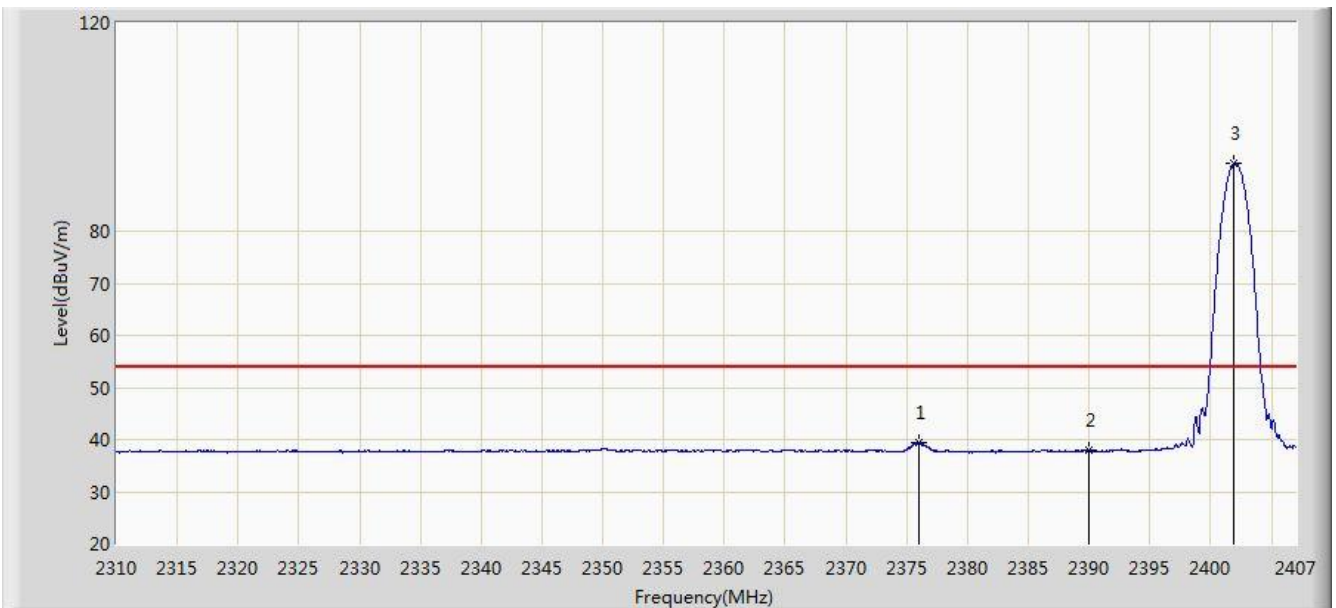


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2375.184	58.640	26.292	-15.360	74.000	32.348	PK
2			2390.000	56.436	24.109	-17.564	74.000	32.327	PK
3		*	2401.956	98.459	66.154	N/A	N/A	32.305	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2402MHz	

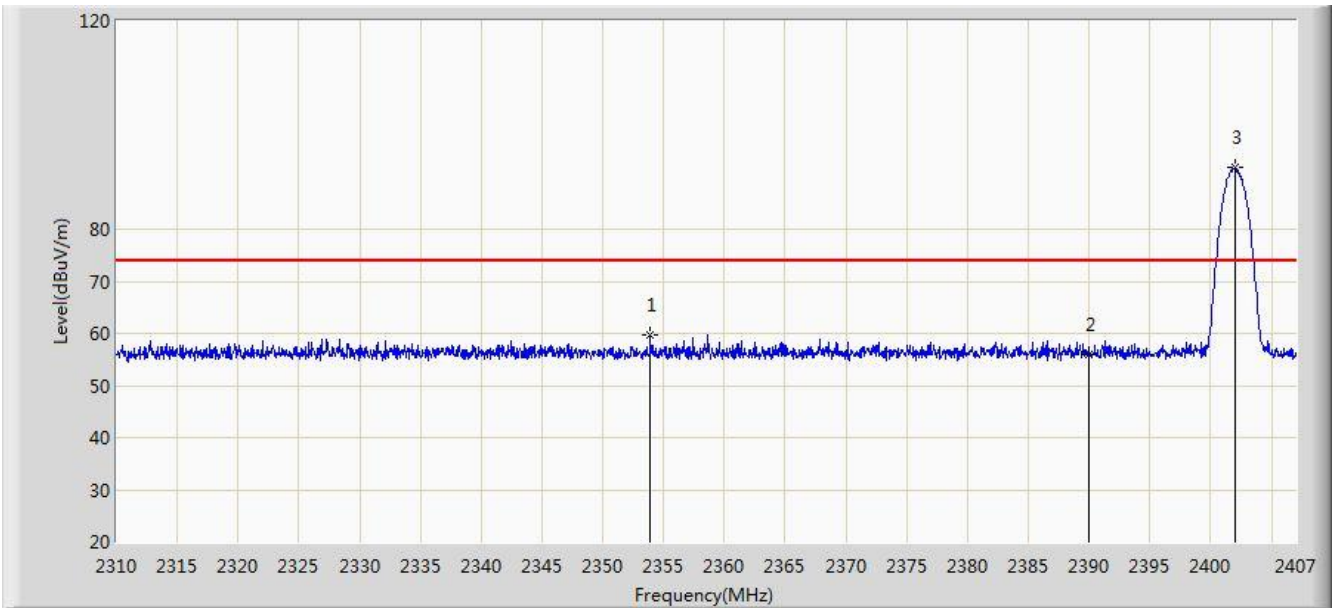


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2376.009	39.416	7.070	-14.584	54.000	32.346	AV
2			2390.000	37.973	5.646	-16.027	54.000	32.327	AV
3		*	2401.907	92.928	60.623	N/A	N/A	32.305	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2402MHz	

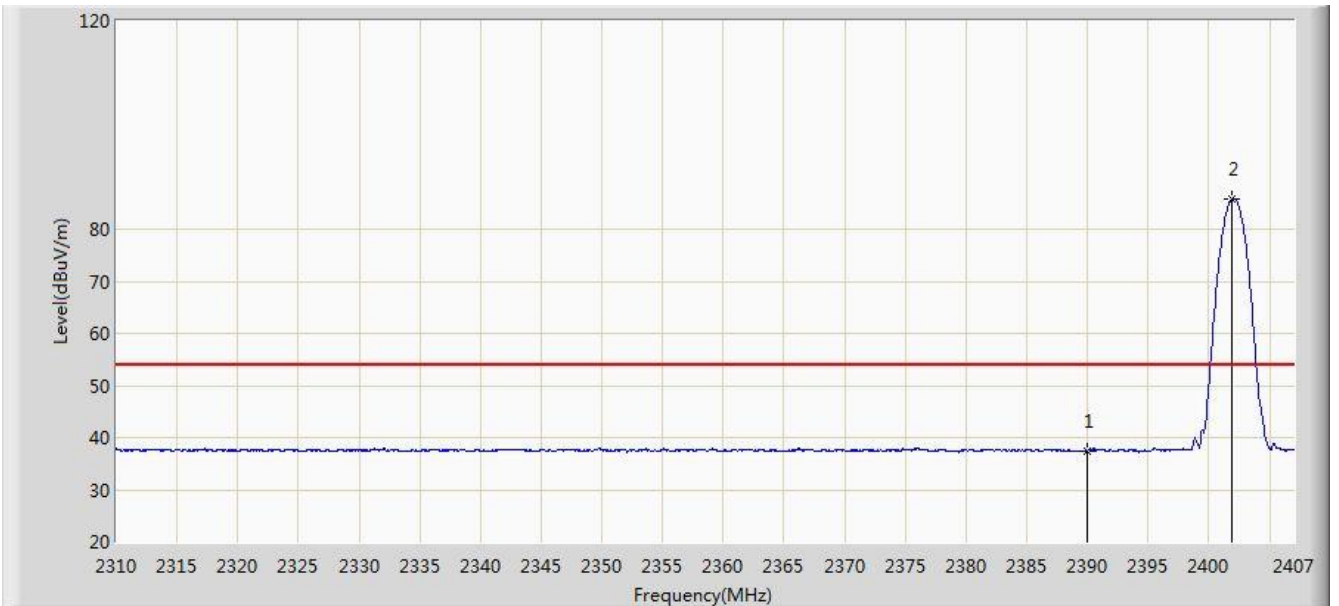


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2353.941	59.811	27.421	-14.189	74.000	32.390	PK
2			2390.000	55.993	23.666	-18.007	74.000	32.327	PK
3		*	2401.956	91.921	59.616	N/A	N/A	32.305	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2402MHz	

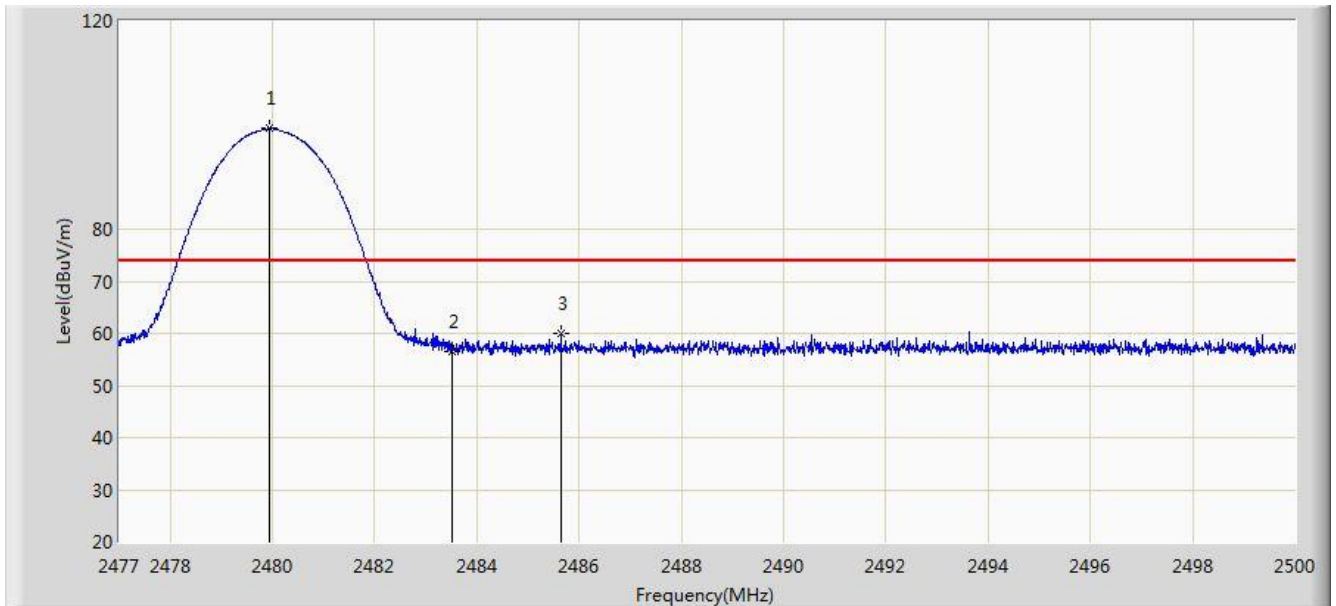


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	37.391	5.064	-16.609	54.000	32.327	AV
2		*	2401.859	85.734	53.429	N/A	N/A	32.305	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2480MHz	

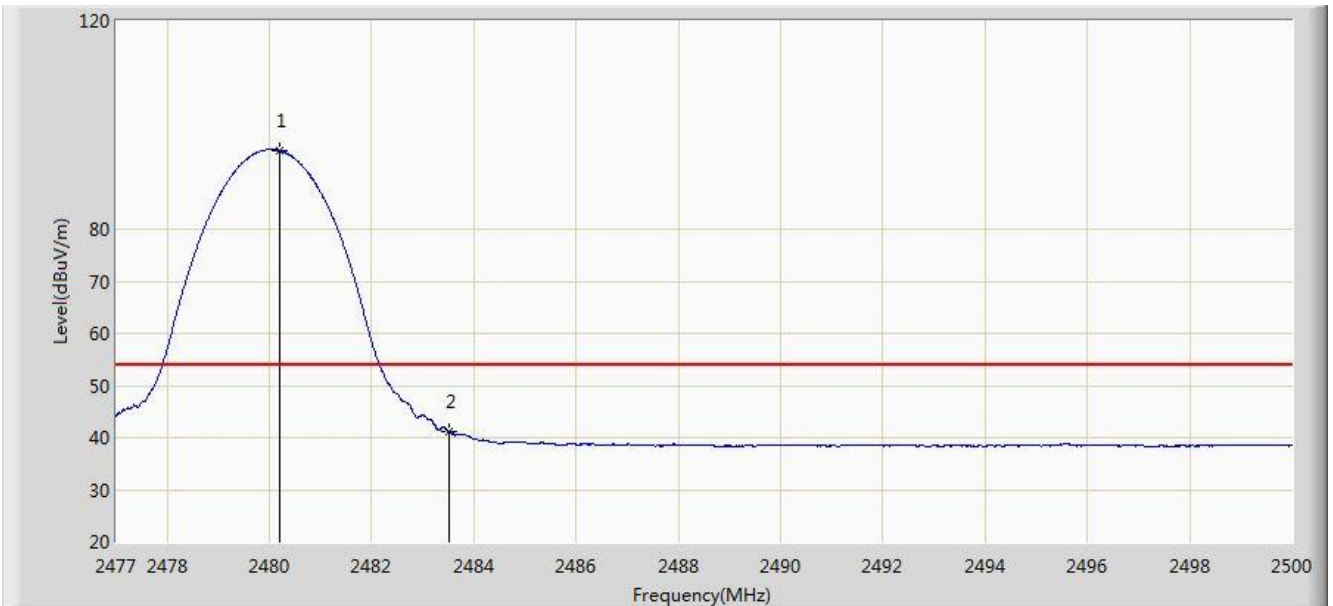


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.933	99.380	67.055	N/A	N/A	32.325	PK
2			2483.500	56.549	24.210	-17.451	74.000	32.340	PK
3			2485.648	59.906	27.558	-14.094	74.000	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2480MHz	

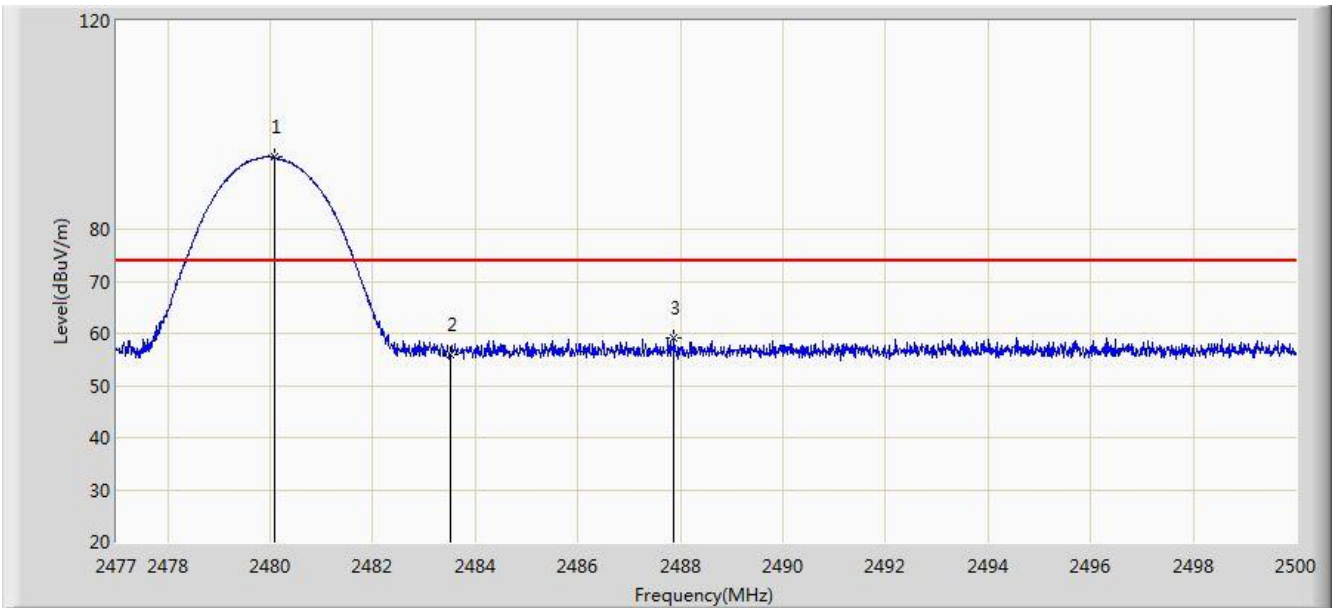


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.208	95.049	62.723	N/A	N/A	32.327	AV
2			2483.500	41.140	8.801	-12.860	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2480MHz	

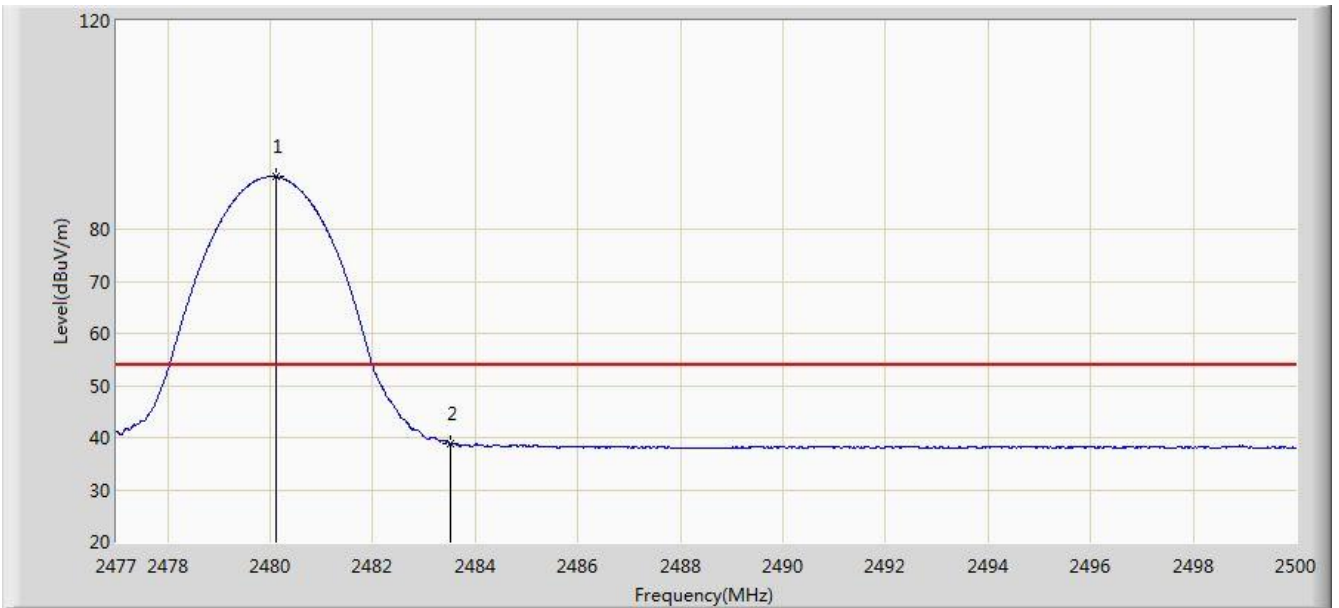


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.071	93.892	61.566	N/A	N/A	32.325	PK
2			2483.500	55.994	23.655	-18.006	74.000	32.340	PK
3			2487.879	59.114	26.758	-14.886	74.000	32.357	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/10/24 - 02:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by BT3.0 3DH5 at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.105	90.040	57.714	N/A	N/A	32.325	AV
2			2483.500	38.911	6.572	-15.089	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

7.11.AC Conducted Emissions Measurement

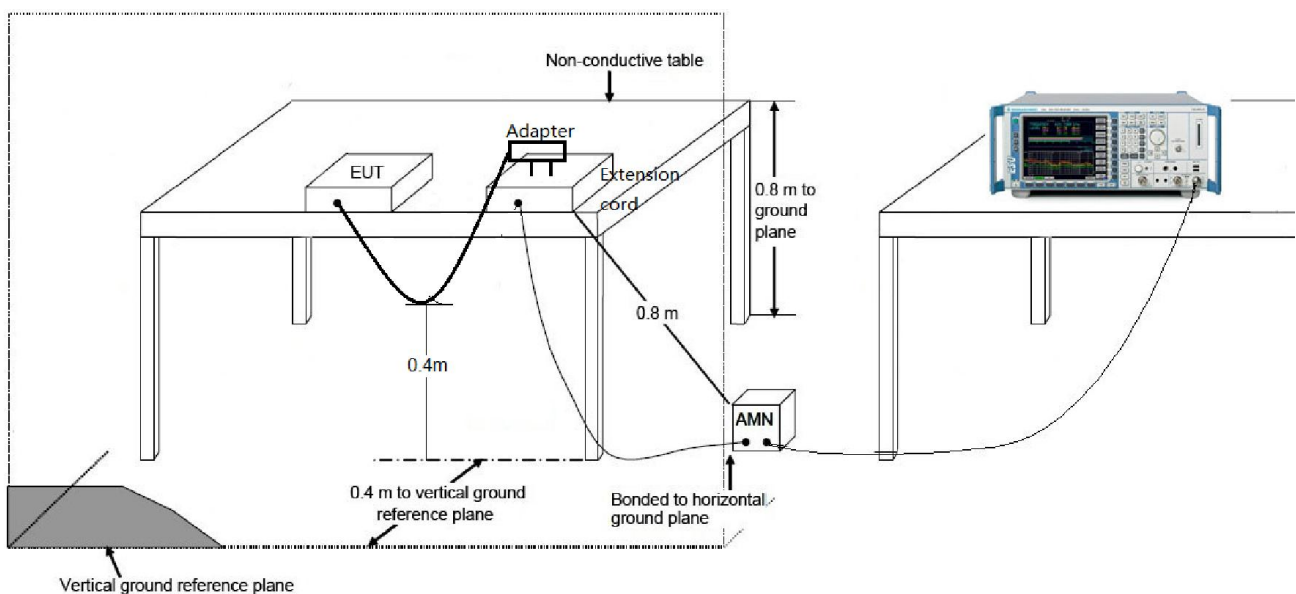
7.11.1.Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

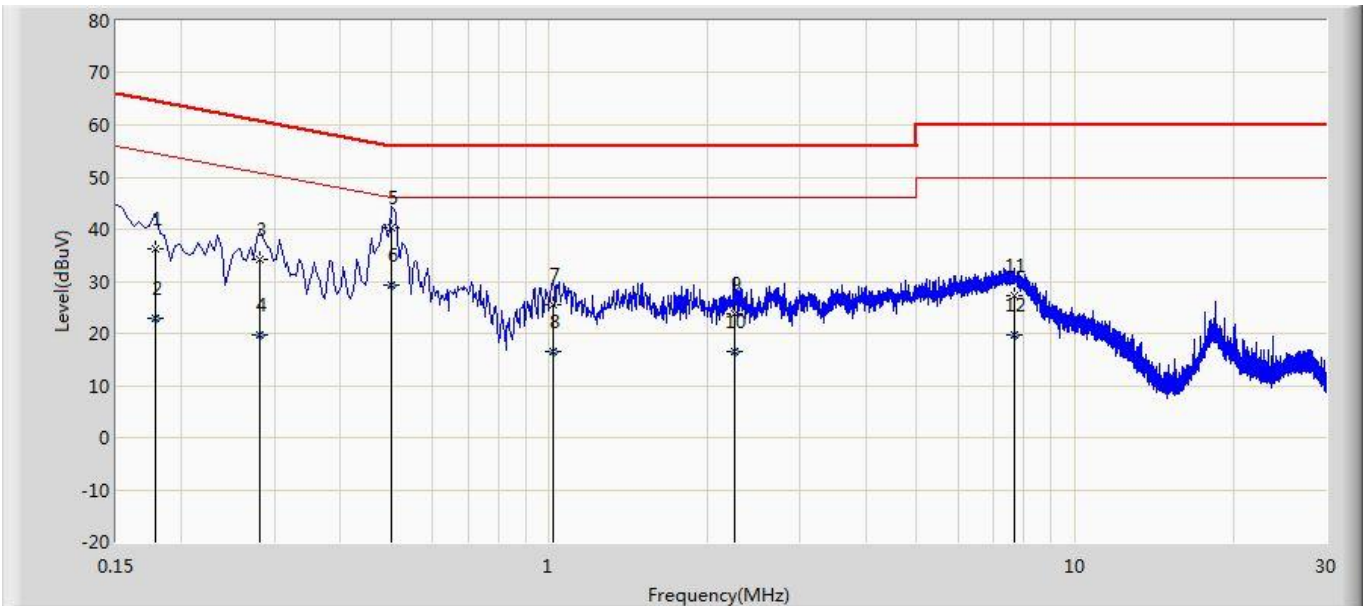
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.11.2.Test Setup



7.11.3.Test Result

Site: SR2	Time: 2018/10/30 - 10:33
Limit: FCC_Part15.207_CE_AC Power	Engineer: Cloud Guo
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: FREKVEN'S Speaker	Power: AC 120V/60Hz
Worst Case Mode: Transmit by DH5 at channel 2402MHz	

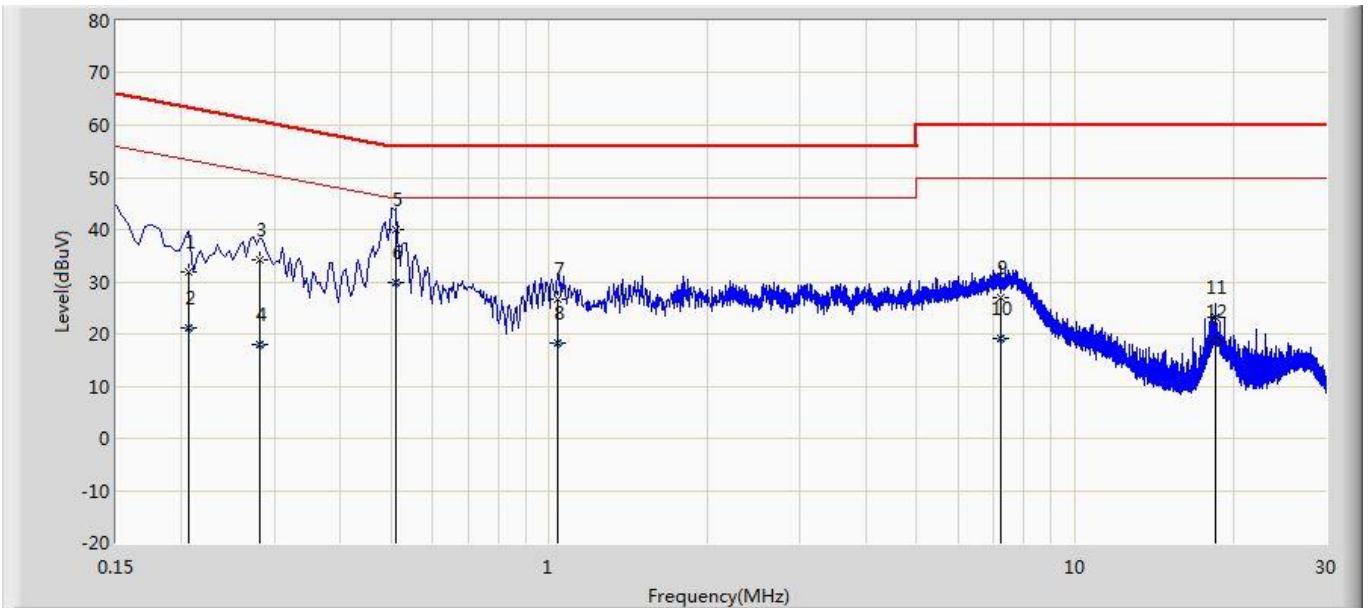


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.178	36.285	26.227	-28.293	64.578	10.058	QP
2			0.178	22.771	12.713	-31.808	54.578	10.058	AV
3			0.282	34.196	24.206	-26.561	60.757	9.990	QP
4			0.282	19.640	9.650	-31.117	50.757	9.990	AV
5			0.502	40.310	30.152	-15.690	56.000	10.157	QP
6			0.502	29.174	19.017	-16.826	46.000	10.157	AV
7			1.018	25.591	15.683	-30.409	56.000	9.908	QP
8			1.018	16.503	6.595	-29.497	46.000	9.908	AV
9			2.246	23.624	13.760	-32.376	56.000	9.865	QP
10		*	2.246	16.532	6.668	-29.468	46.000	9.865	AV
11			7.678	27.195	17.033	-32.805	60.000	10.162	QP
12			7.678	19.593	9.431	-30.407	50.000	10.162	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2018/10/30 - 10:39
Limit: FCC_Part15.207_CE_AC Power	Engineer: Cloud Guo
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: FREKVENS Speaker	Power: AC 120V/60Hz
Worst Case Mode: Transmit by DH5 at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.206	31.914	21.913	-31.451	63.365	10.001	QP
2			0.206	21.122	11.120	-32.243	53.365	10.001	AV
3			0.282	34.102	24.078	-26.654	60.757	10.025	QP
4			0.282	18.108	8.083	-32.649	50.757	10.025	AV
5			0.510	39.968	29.792	-16.032	56.000	10.176	QP
6			0.510	29.732	19.555	-16.268	46.000	10.176	AV
7			1.038	26.801	16.894	-29.199	56.000	9.908	QP
8		*	1.038	18.221	8.314	-27.779	46.000	9.908	AV
9			7.226	26.826	16.649	-33.174	60.000	10.177	QP
10			7.226	19.104	8.928	-30.896	50.000	10.177	AV
11			18.482	23.300	13.159	-36.700	60.000	10.141	QP
12			18.482	18.671	8.531	-31.329	50.000	10.141	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **FREKVENS Speaker** is in compliance with Part 15C of the FCC rules and RSS-247 of IC rules.

The End

Appendix A – Test Setup Photograph

Refer to “1809WSU002-UT” file.

Appendix B – EUT Photograph

Refer to “1809WSU002-UE” file.