



FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Modern Electronics Factory Limited

KITCHEN BLUETOOTH CD WITH FM RADIO

Brand Name	Model No.
iLiVE; MET; MODERN;GPX;Curtis; Sylvania;Proscan	IKBC384S; MET 384; MET 385; 384; 385;KCR2713;SKCR2713 ;PKCR2713;IKCB385XX

FCC ID: SSM393384

Prepared for : Modern Electronics Factory Limited
Flat C, 10/F., Phase 4, Kwun Tong Ind. Center, 472-482
Kwun Tong RD, Kwun Tong, KLN, Hong Kong

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Report Number : ACS-F14073
Date of Test : Jan.21~26, 2014
Date of Report : Mar.07, 2014

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TEST REPORT CERTIFICATION

Applicant : Modern Electronics Factory Limited
Manufacturer : Modern Electronics Factory Limited
EUT Description : KITCHEN BLUETOOTH CD WITH FM RADIO
FCC ID : SSM393384

(A) MODEL NO. &
BRAND NAME

Brand Name	Model No.
ILIVE; MET; MODERN; GPX; Curtis; Sylvania; Proscan	IKBC384S; MET 384; MET 385; 384; 385; KCR2713; SKCR2713; PKCR271; IKCB385XX

(B) SERIAL NO. : N/A

(C) POWER SUPPLY : AC 100-240V, 50/60Hz

(D) TEST VOLTAGE : DC 5V From Adapter Input AC 120V/60Hz

Tested for comply with:

FCC Rules and Regulations Part 15 Subpart C: 2012

Test procedure used:

ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jan.21~ 26, 2014 Report of date: Mar.07, 2014

Prepared by :

Julia Zhu
Julia Zhu / Assistant

Reviewed by :

Sunny Lu / Assistant Manager
Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: David Jin

Approved & Authorized Signer :

David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2009	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 :2009	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1)\ ANSI C63.10 :2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : KITCHEN BLUETOOTH CD WITH FM RADIO

Model Number& Brand Name	:	Brand Name	Model No.
		ILIVE; MET; MODERN;GPX;Curtis; Sylvania;Proscan	IKBC384S; MET 384; MET 385; 384; 385;KCR2713;SKCR2713;PKCR2713; IKCB385XX

FCC ID : SSM393384

Radio : Bluetooth V3.0 +EDR

Operation Frequency : 2402-2480MHz

Number of Channel : 79

Modulation Technology : GFSK, $\pi/4$ DQPSK, 8DPSK

Antenna Assembly Gain : Integrated PCB Antenna, 1.7dBi PK Gain

Applicant : Modern Electronics Factory Limited
Flat C, 10/F., Phase 4, Kwun Tong Ind. Center, 472-482 Kwun
Tong RD, Kwun Tong, KLN, Hong Kong

Manufacturer : Modern Electronics Factory Limited
Flat C, 10/F., Phase 4, Kwun Tong Ind. Center, 472-482 Kwun
Tong RD, Kwun Tong, KLN, Hong Kong

Factory : Keng Fu Jia Electronics (ShenZhen) Company Ltd.
Sui Wai Sun Chuen, Tai Long, Lung Wah, ShenZhen, China

Adapter : Manufacturer: Swtec, M/N: SWN006S050120U1
Cable: Unshielded, Detachable, 1.9m

Date of Test : Jan.21~26, 2014

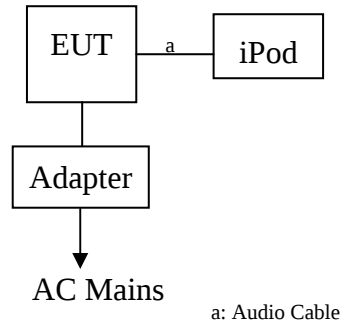
Date of Receipt : Jan.20, 2014

Sample Type : Prototype production

2.2. Tested Supporting System Details

	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	iPod	-	APPLE	A1446	DCYJL600F0GQ	☒ CCC

2.3. EUT Configuration and operation conditions for test.



(EUT: KITCHEN BLUETOOTH CD WITH FM RADIO)

2.4. Test information

The test software “bluesuite.exe” was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH39	2441
	1	High: CH78	2480
Tx Mode 8-DPSK modulation	3	Low: CH 0	2402
	3	Middle: CH39	2441
	3	High: CH78	2480
Note: $\pi/4$ DQPSK modulation is same type modulation with 8-DPSK, and according exploratory test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.			

2.5. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Oct.31, 2015

EMC Lab. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Valid Date: Jun.13, 2014

: Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-00
Valid Date: Dec.15, 2016

: Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2014

2.6. Measurement Uncertainty (95% confidence levels, k=2)

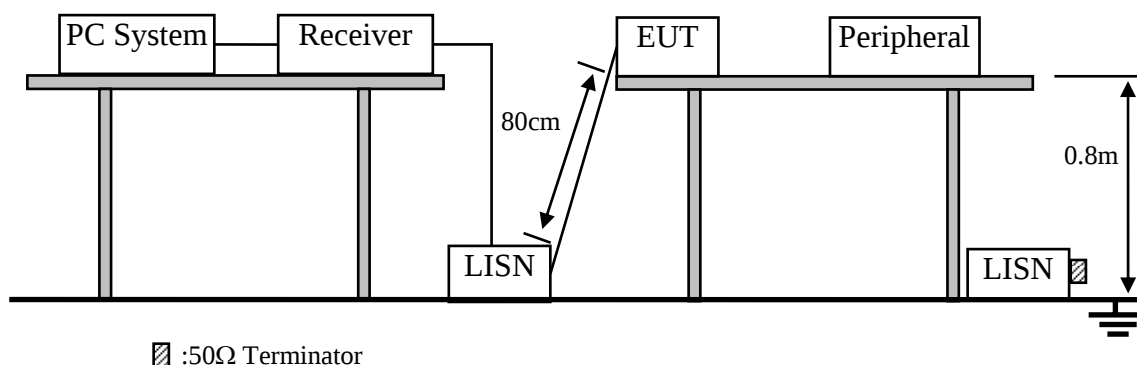
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.08 dB(9KHz to 150KHz)
	3.1 dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97 dB(1~6GHz, Distance: 3m)
	4.99 dB(6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.18, 13	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 13	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 13	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
7.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1 Year
8.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year
10.	MPEG2 Measurement Generator	ROHDE&SCHW ARZ	DVG	100319	Dec.11, 13	1 Year
11.	TV Transmitter	ROHDE&SCHW ARZ	SFQ	100521	May.08, 13	1 Year
12.	Signal Generator	HP	8648A	3625U00573	May.08, 13	1 Year
13.	Pattern Generator	Philips	PM5418	LO625020	May.08, 13	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. KITCHEN BLUETOOTH CD WITH FM RADIO (EUT)

Model Number : IKBC384S

Serial Number : N/A

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

3.6. Test Procedure

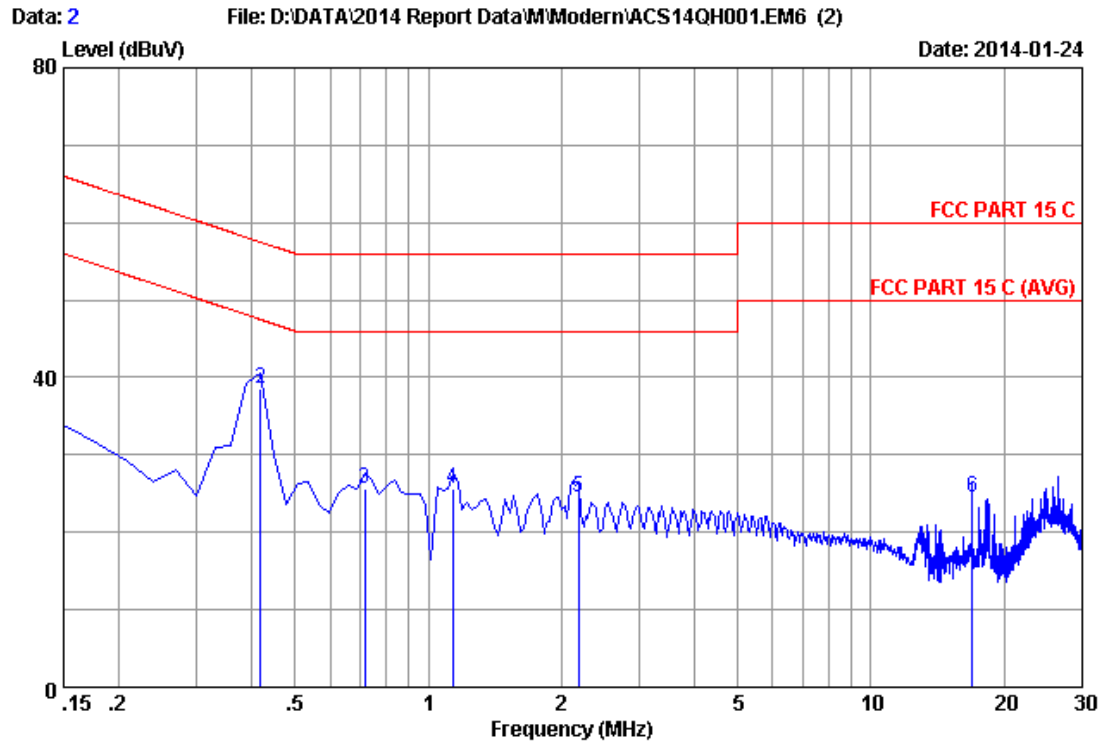
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Emission at Mains Terminals Test Results

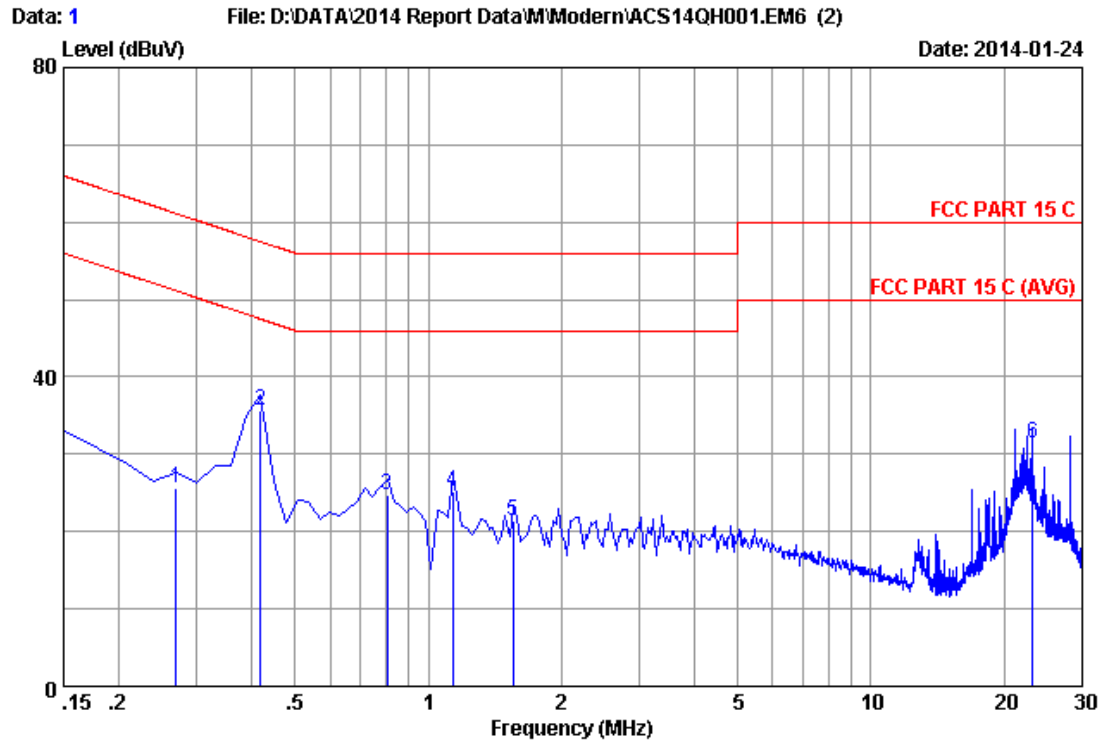
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1#conduction Data No :2
 Dis./Ant. :2013 ESH2-Z5 LINE
 Limit :FCC PART 15 C
 Env./Ins. :25.5°C/53% Engineer :Leo-Li
 EUT :KIITCHEN BLUETOOTH CD WITH FM RADIO
 Power Rating :DC 5V From Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.14	0.01	31.66	31.81	66.00	34.19	QP
2	0.41865	0.16	0.02	38.43	38.61	57.47	18.86	QP
3	0.71715	0.17	0.03	25.46	25.66	56.00	30.34	QP
4	1.135	0.19	0.03	25.40	25.62	56.00	30.38	QP
5	2.180	0.23	0.04	24.26	24.53	56.00	31.47	QP
6	16.926	1.26	0.13	23.07	24.46	60.00	35.54	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1#conduction Data No :1
 Dis./Ant. :2013 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :25.5°C/53% Engineer :Leo-Li
 EUT :KIITCHEN BLUETOOTH CD WITH FM RADIO
 Power Rating :DC 5V From Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26940	0.19	0.01	25.46	25.66	61.14	35.48	QP
2	0.41865	0.22	0.02	35.39	35.63	57.47	21.84	QP
3	0.80670	0.27	0.03	24.38	24.68	56.00	31.32	QP
4	1.135	0.26	0.03	24.96	25.25	56.00	30.75	QP
5	1.553	0.26	0.04	21.14	21.44	56.00	34.56	QP
6	23.135	1.34	0.15	29.88	31.37	60.00	28.63	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

4.1.1. Frequency rang: 30~1000MHz

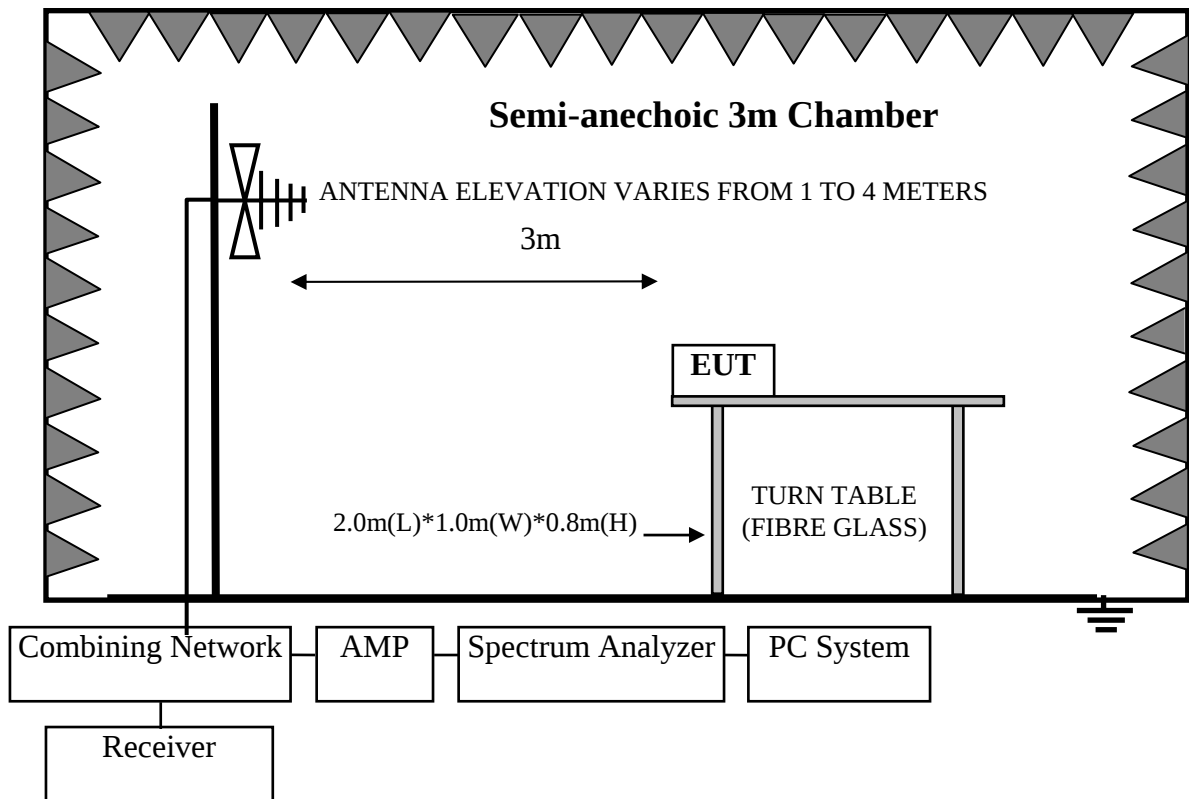
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year

4.1.2. Frequency rang: above 1000MHz

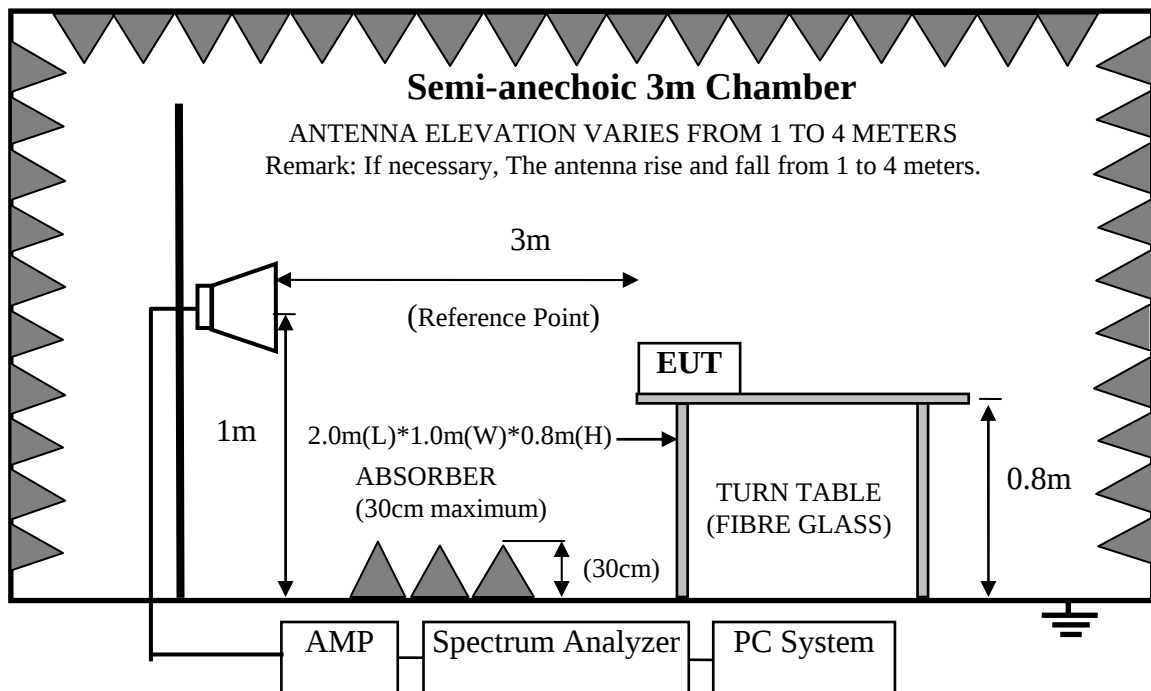
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
6	Horn Antenna	EMCO	3116	00060089	Aug.28, 13	1 Year

4.2. Block Diagram of Test Setup

4.2.1. For frequency range 30MHz-1000MHz



4.2.2. For frequency range 1GHz-18GHz



4.3.Radiated Emission Limit Standard: FCC 15.209

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. KITCHEN BLUETOOTH CD WITH FM RADIO (EUT)

Model Number : IKBC384S
Serial Number : N/A

4.5.Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 4.5.2. Turned on the power of all equipment.
- 4.5.3. Let EUT work in Tx mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement and RBW is set at 1MHz, VBW is set at 10Hz for average emission measurement above 1GHz

The duty cycle of the test signal is 100%.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

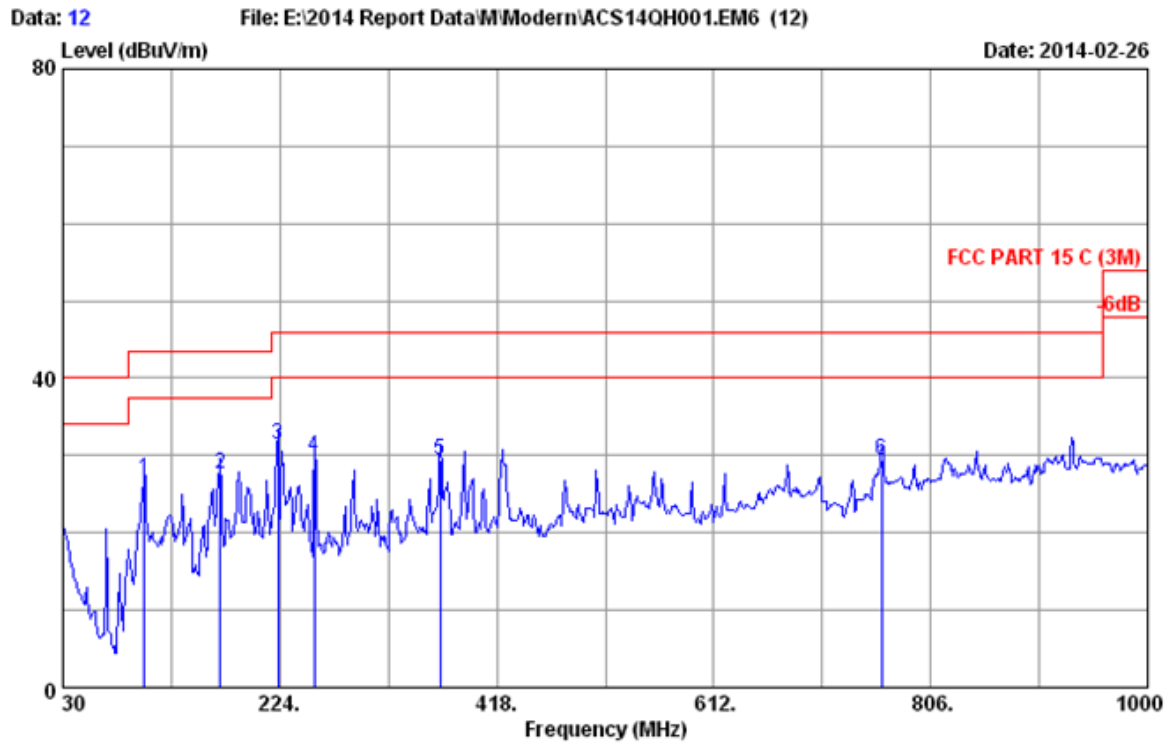
4.7.Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Duty cycle factor =100%

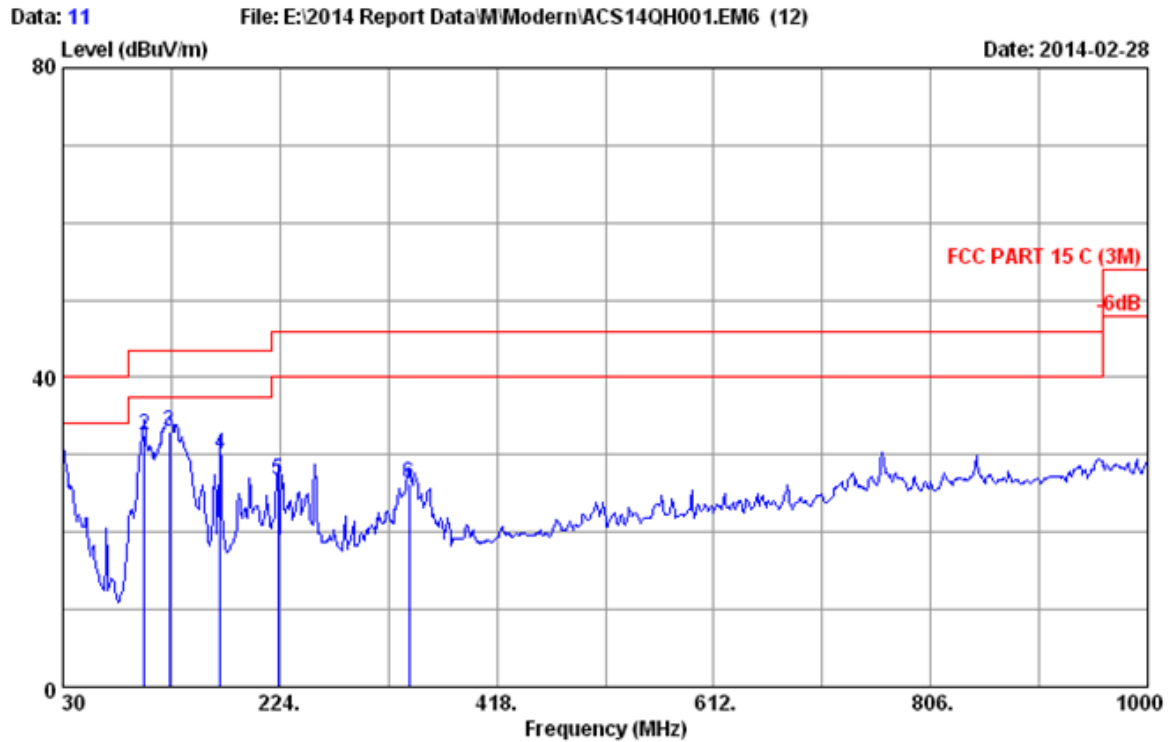
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 23.2°C/41% Engineer : Even_Deng
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N:IKBC384S

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	102.750	10.71	1.42	14.94	27.07	43.50	16.43	QP
2	170.650	10.13	1.68	15.91	27.72	43.50	15.78	QP
3	222.060	10.36	1.87	19.12	31.35	46.00	14.65	QP
4	255.040	13.20	2.00	14.70	29.90	46.00	16.10	QP
5	367.560	15.45	2.37	11.58	29.40	46.00	16.60	QP
6	762.350	22.05	3.50	3.91	29.46	46.00	16.54	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

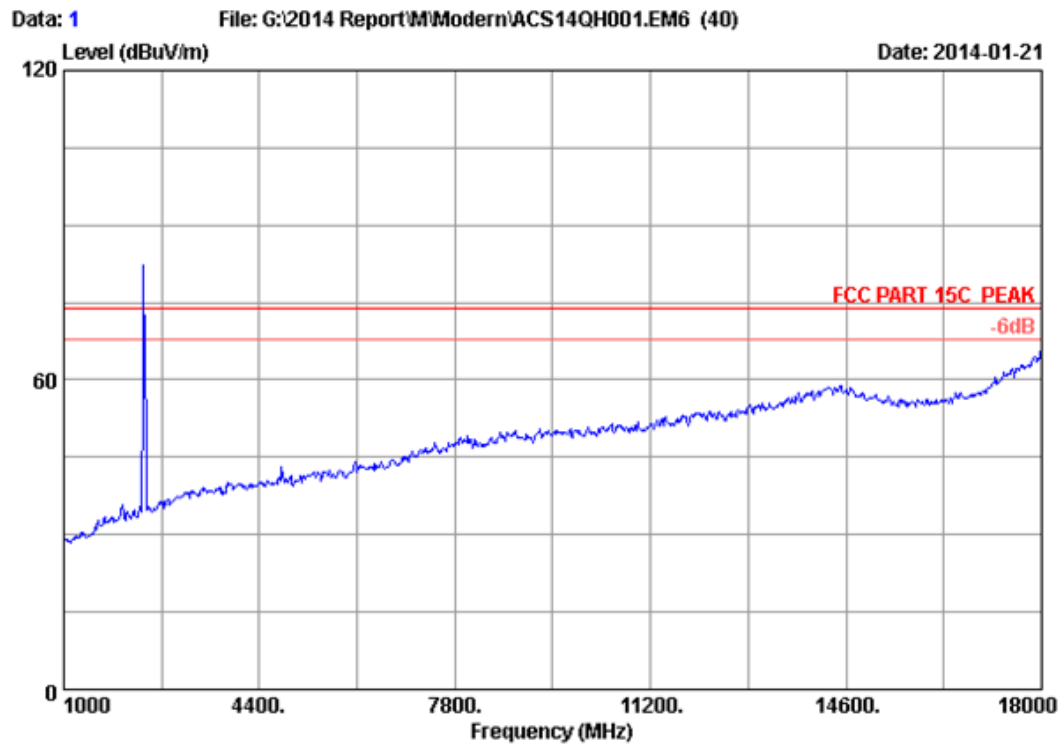


Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 23.2°C/41% Engineer : Even_Deng
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N:IKBC384S

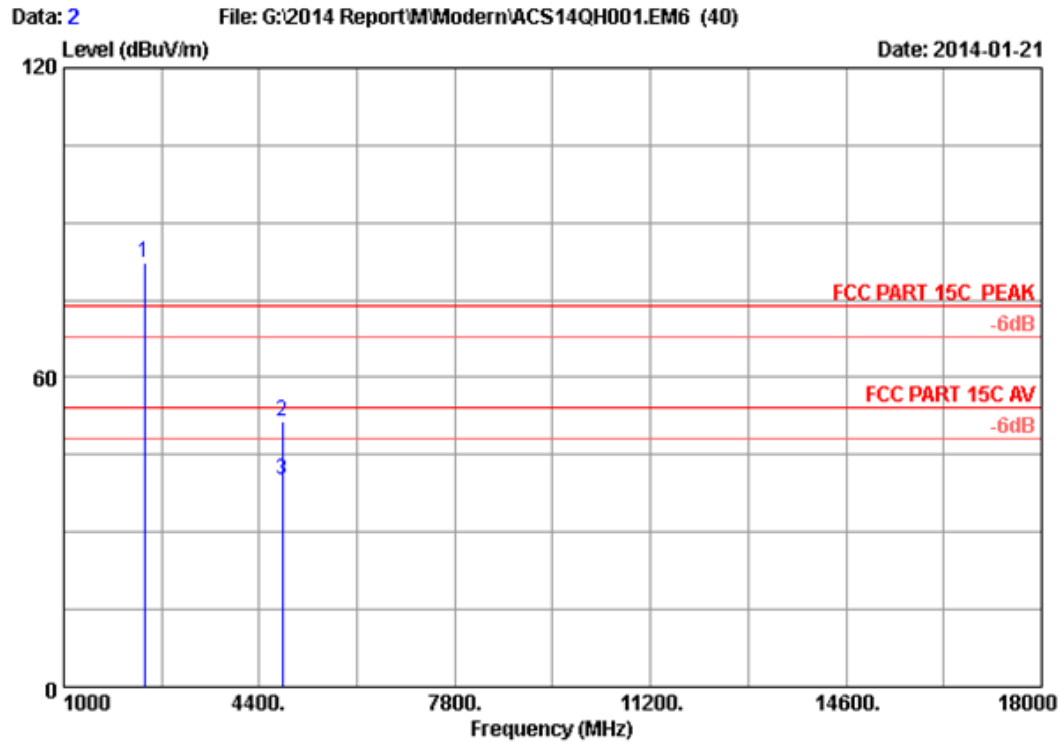
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.90	0.83	8.13	28.86	40.00	11.14	QP
2	102.750	10.71	1.42	20.43	32.56	43.50	10.94	QP
3	125.060	12.20	1.51	19.24	32.95	43.50	10.55	QP
4	170.650	10.13	1.68	18.36	30.17	43.50	13.33	QP
5	222.060	10.36	1.87	14.46	26.69	46.00	19.31	QP
6	339.430	14.78	2.28	9.28	26.34	46.00	19.66	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



Site no.	: 3m Chamber	Data no.	: 1
Dis. / Ant.	: 3m 2013 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: KITCHEN BLUETOOTH CD WITH FM RADIO		
Power supply	: DC 5V From Adapter Input AC 120V/60Hz		
Test mode	: GFSK 2402MHz Tx		
M/N	: IKBC384S		

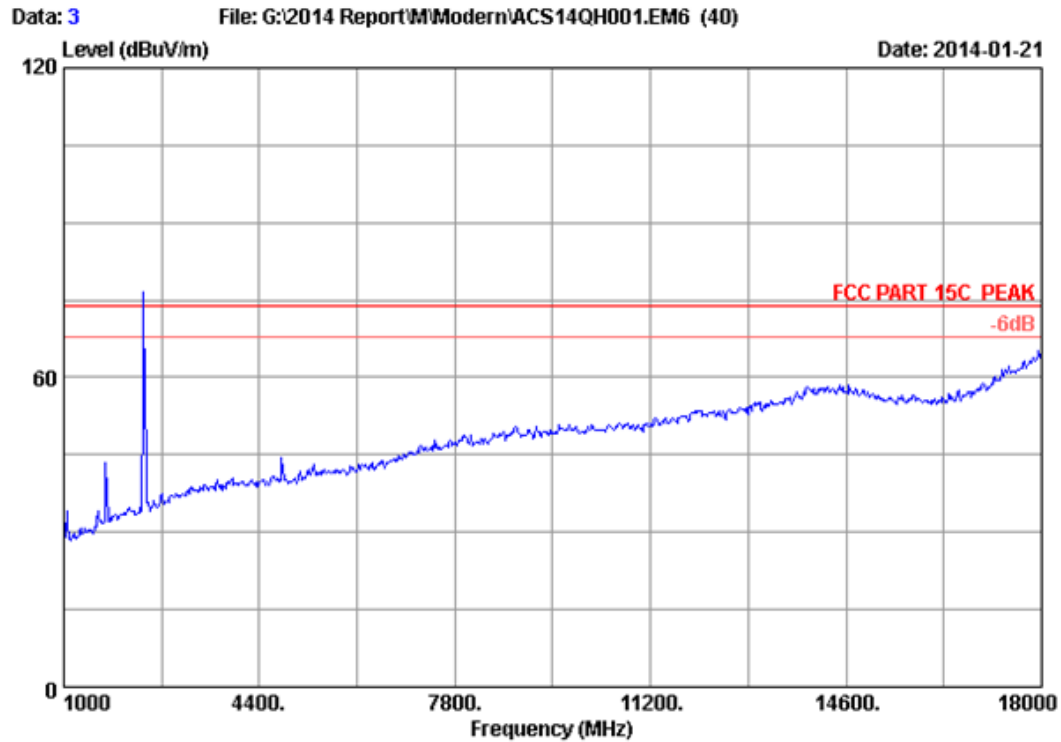


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

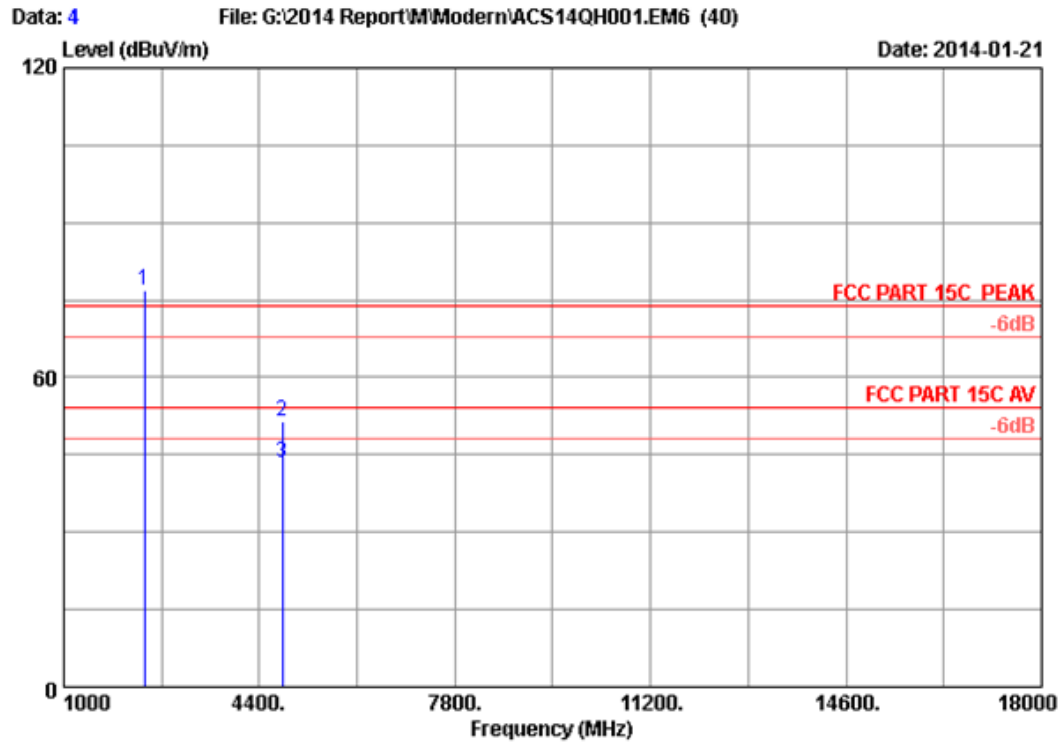
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	83.87	82.15	74.00	-8.15	Peak
2	4804.000	32.85	8.56	35.70	45.62	51.33	74.00	22.67	Peak
3	4804.000	32.85	8.56	35.70	34.27	39.98	54.00	14.02	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

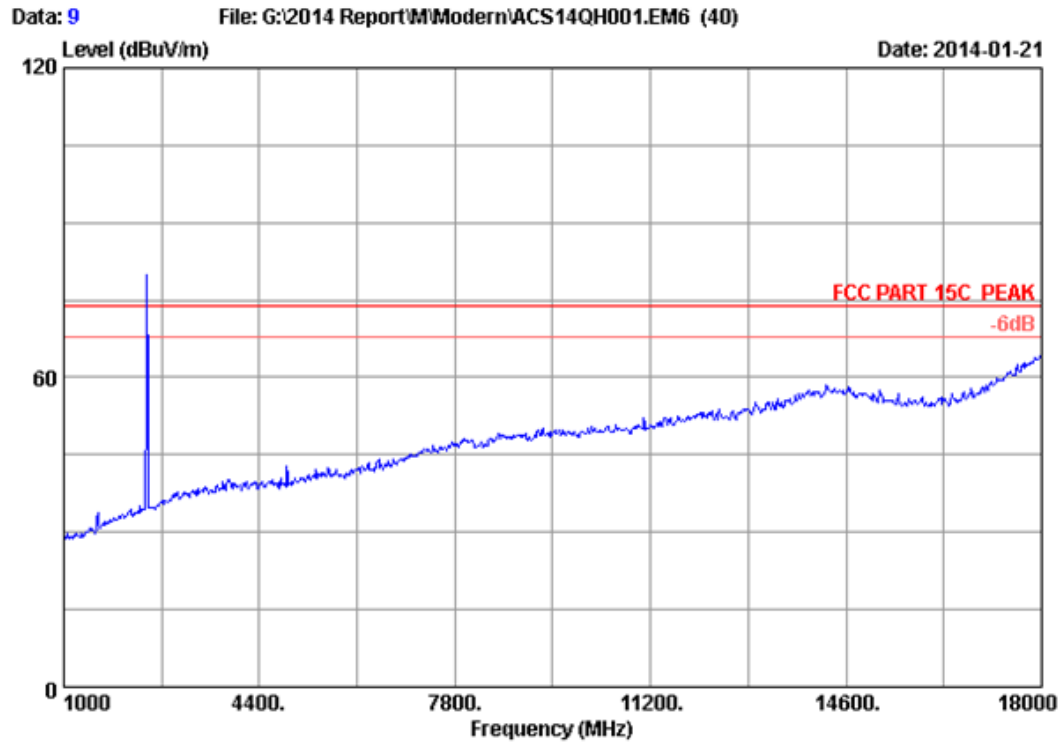


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

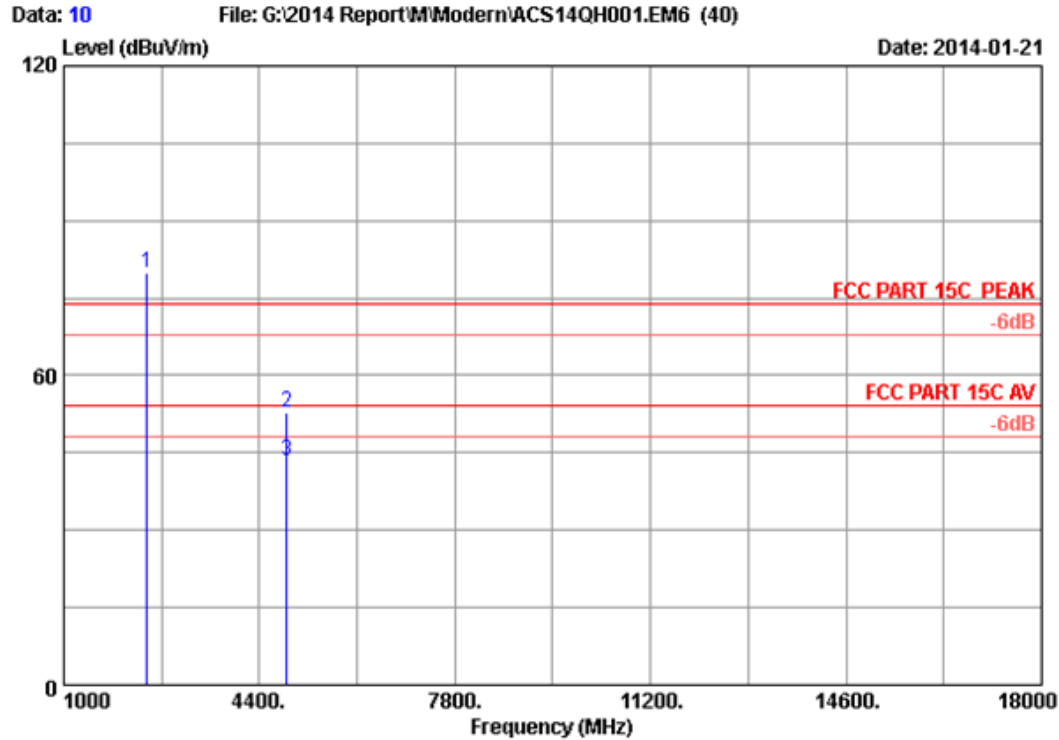
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	78.65	76.93	74.00	-2.93	Peak
2	4804.000	32.85	8.56	35.70	45.87	51.58	74.00	22.42	Peak
3	4804.000	32.85	8.56	35.70	37.73	43.44	54.00	10.56	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2441MHz Tx
 M/N : IKBC384S

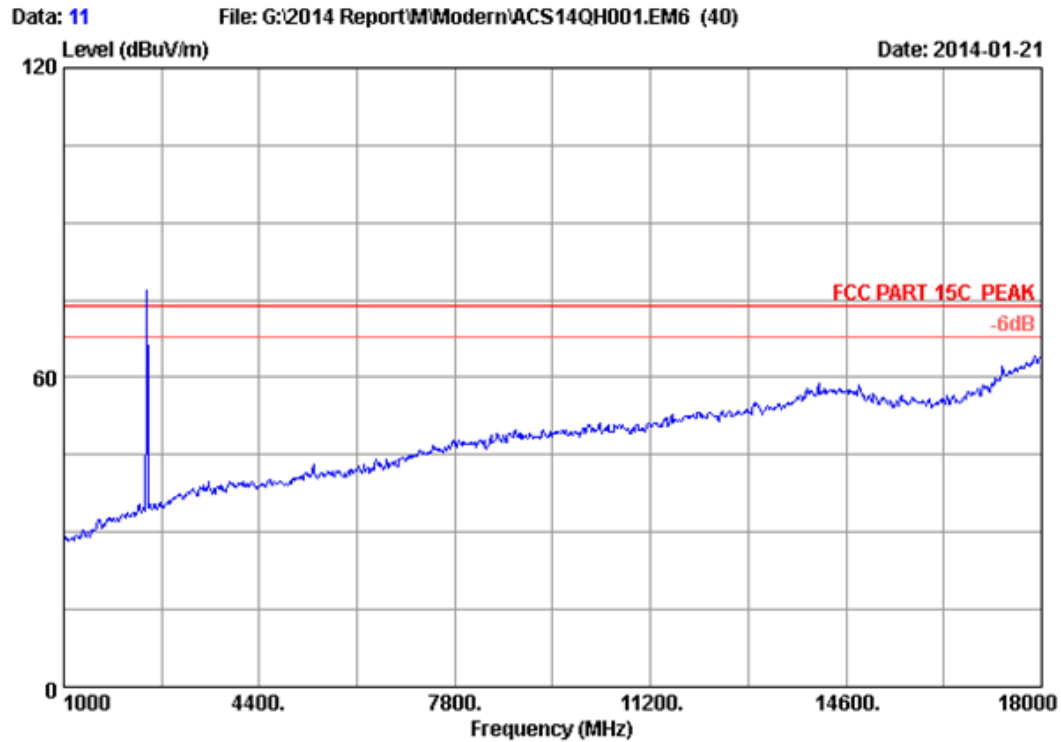


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2441MHz Tx
 M/N : IKBC384S

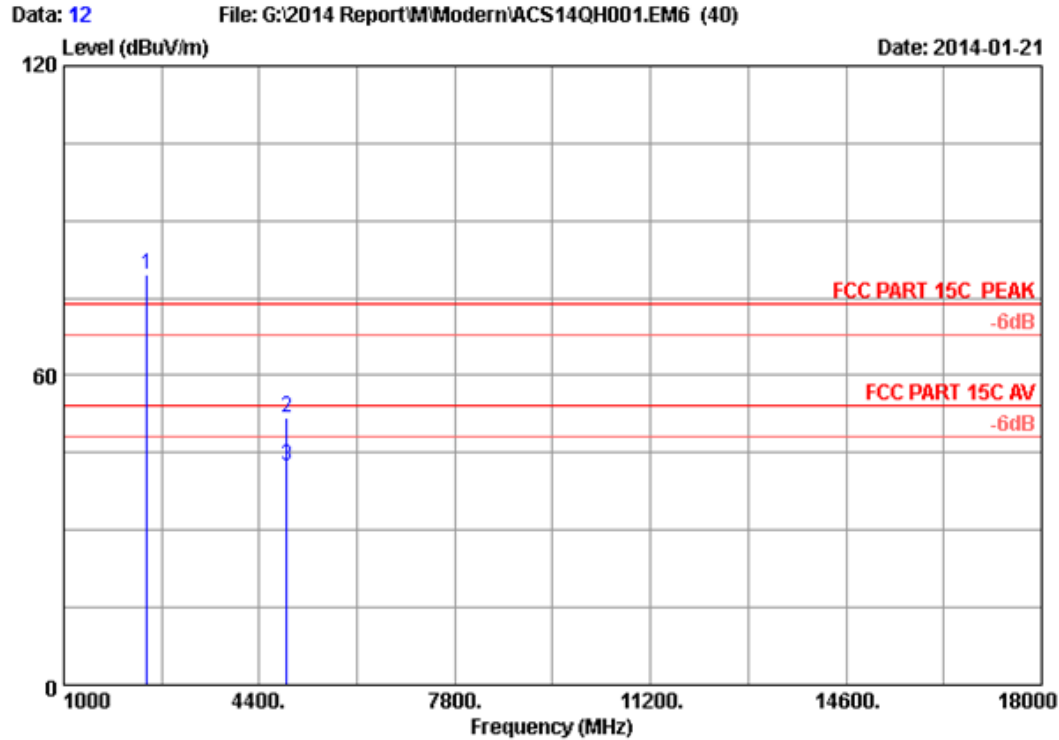
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	81.46	79.89	74.00	-5.89	Peak
2	4882.000	32.99	8.64	35.70	46.86	52.79	74.00	21.21	Peak
3	4882.000	32.99	8.64	35.70	37.62	43.55	54.00	10.45	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2441MHz Tx
 M/N : IKBC384S

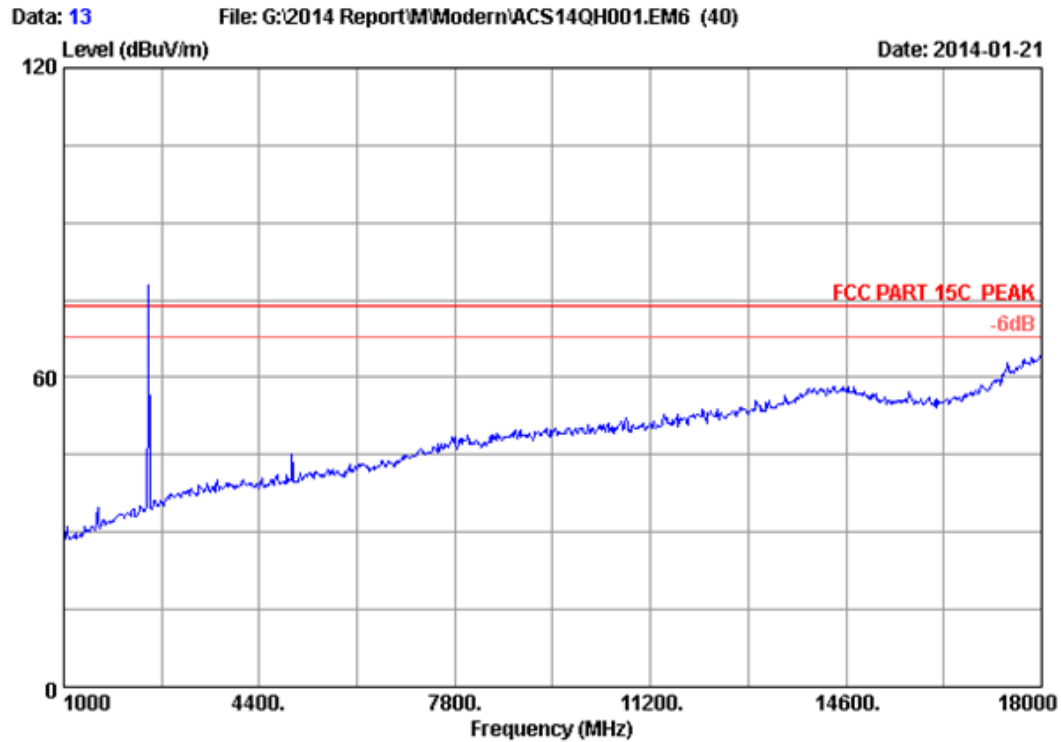


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2441MHz Tx
 M/N : IKBC384S

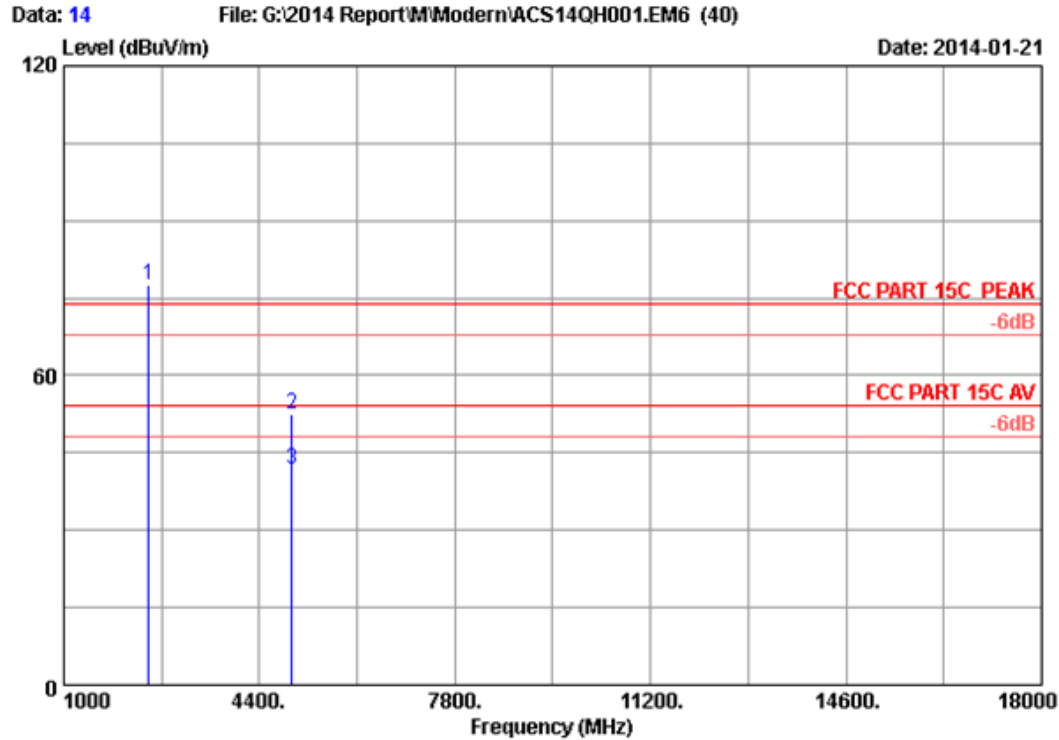
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	81.26	79.69	74.00	-5.69	Peak
2	4882.000	32.99	8.64	35.70	45.86	51.79	74.00	22.21	Peak
3	4882.000	32.99	8.64	35.70	36.53	42.46	54.00	11.54	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

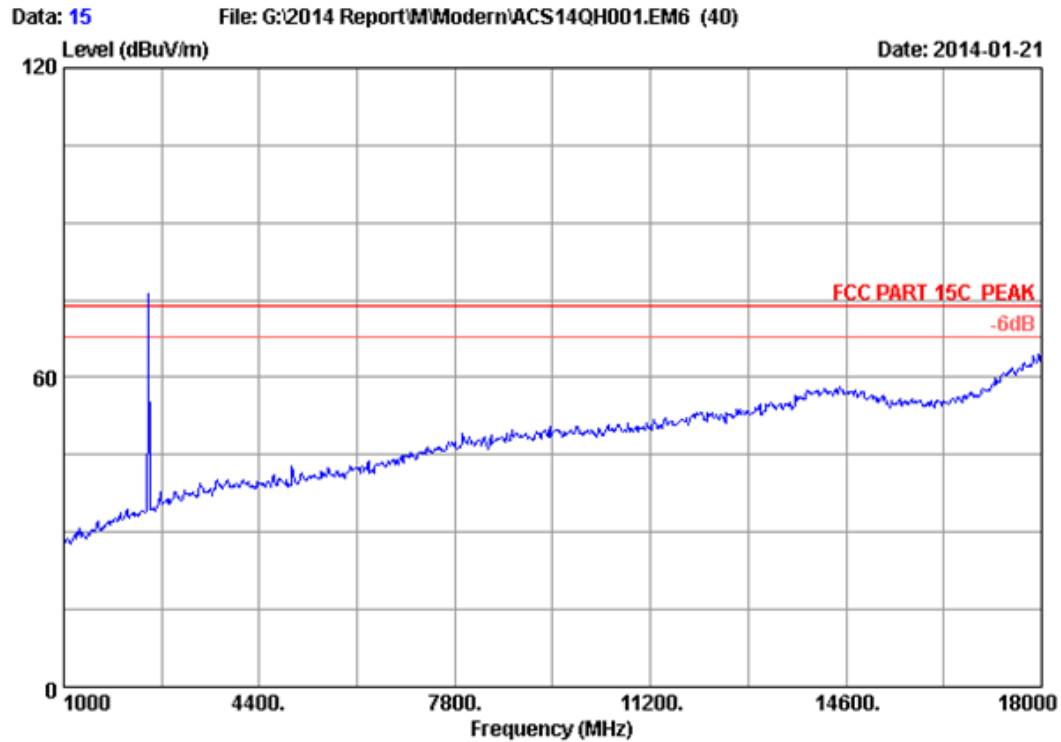


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

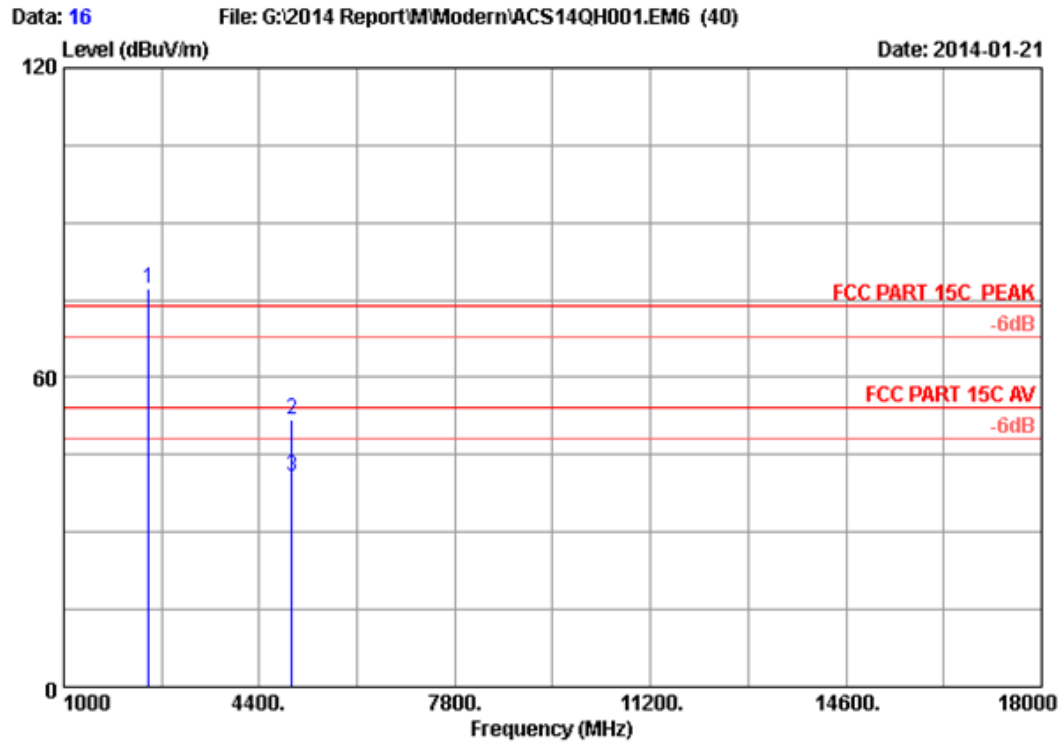
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	78.95	77.52	74.00	-3.52	Peak
2	4960.000	33.13	8.72	35.70	46.28	52.43	74.00	21.57	Peak
3	4960.000	33.13	8.72	35.70	35.68	41.83	54.00	12.17	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

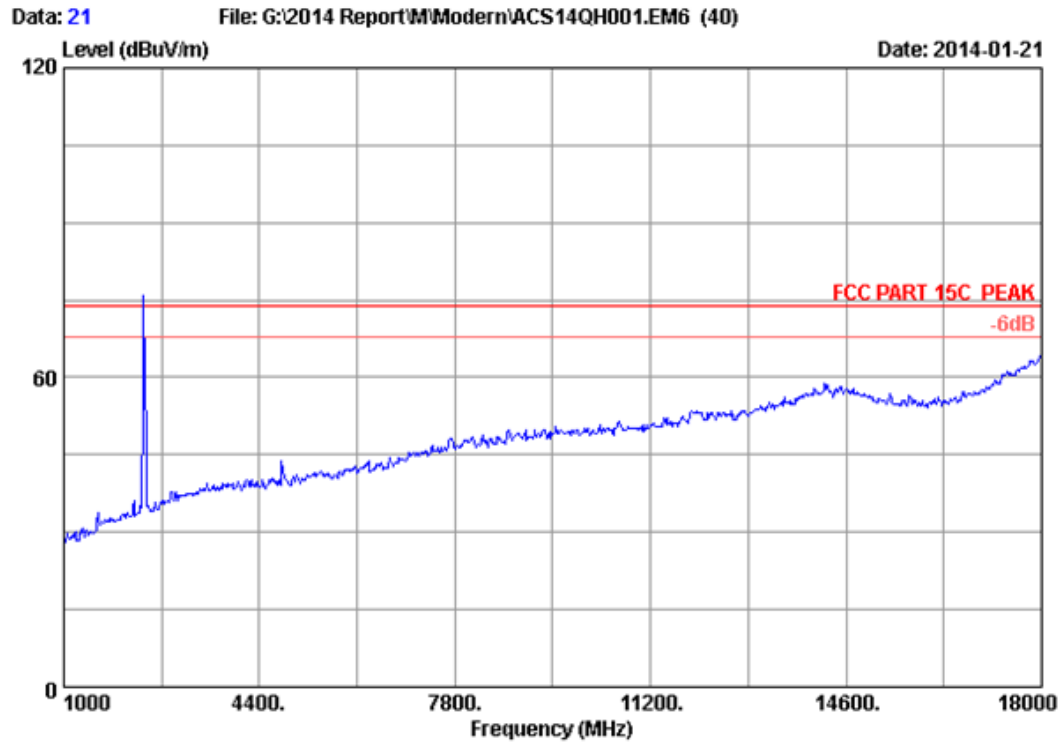


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

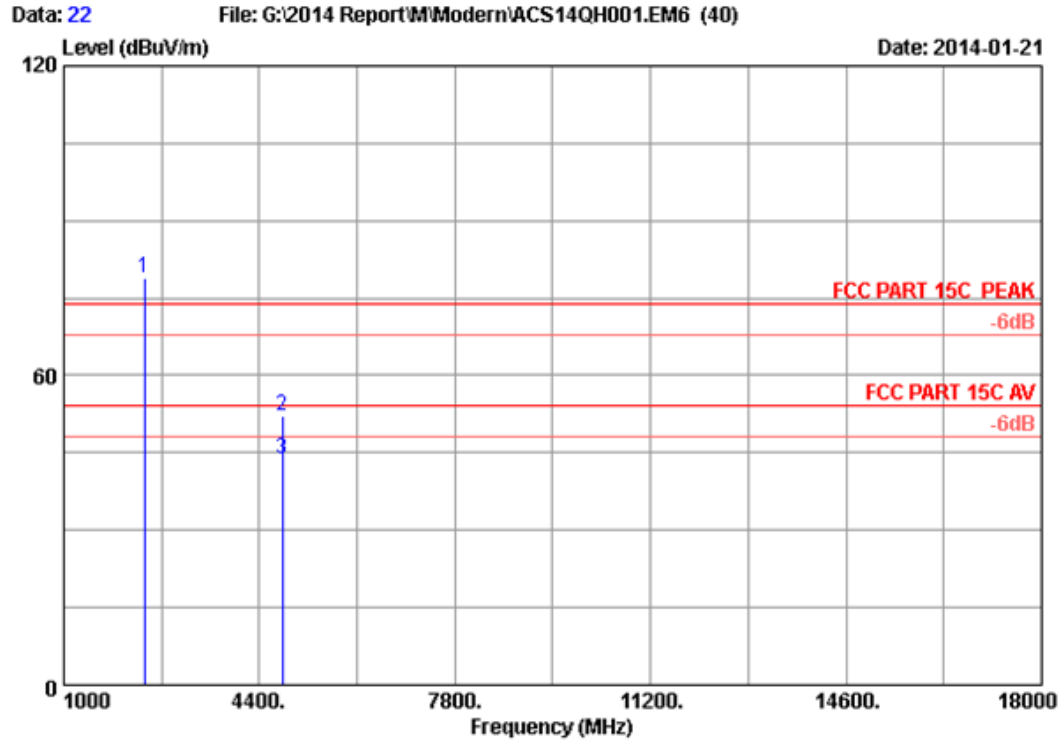
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	78.67	77.24	74.00	-3.24	Peak
2	4960.000	33.13	8.72	35.70	45.61	51.76	74.00	22.24	Peak
3	4960.000	33.13	8.72	35.70	34.52	40.67	54.00	13.33	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2402MHz Tx
M/N : IKBC384S

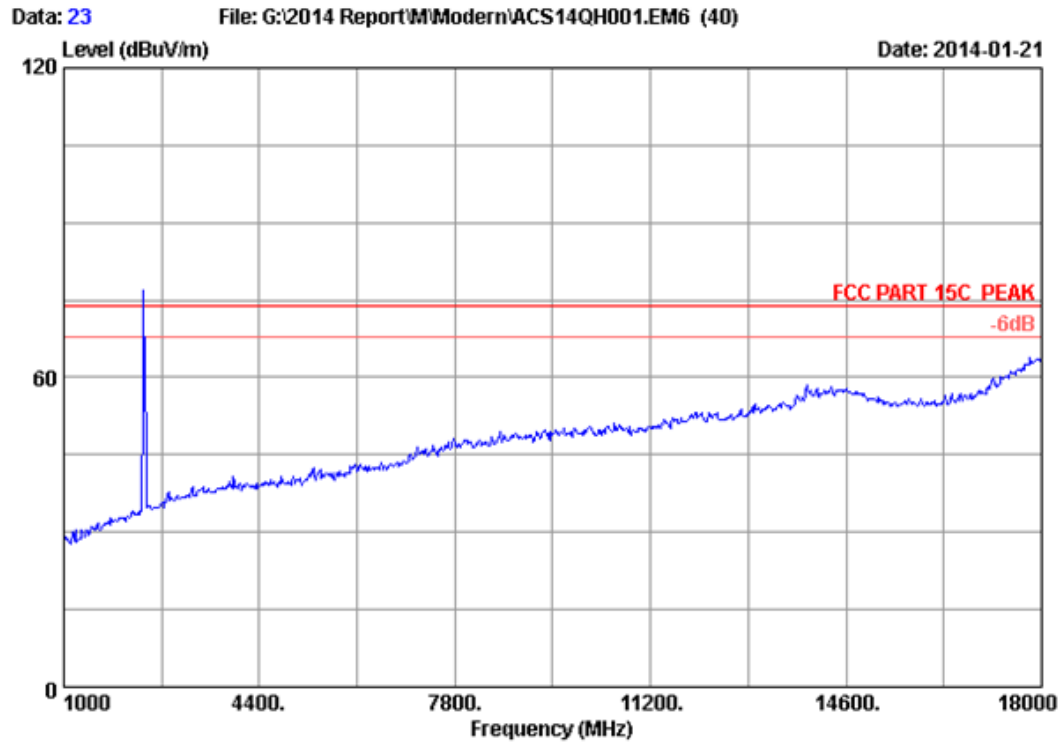


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx
 M/N : IKBC384S

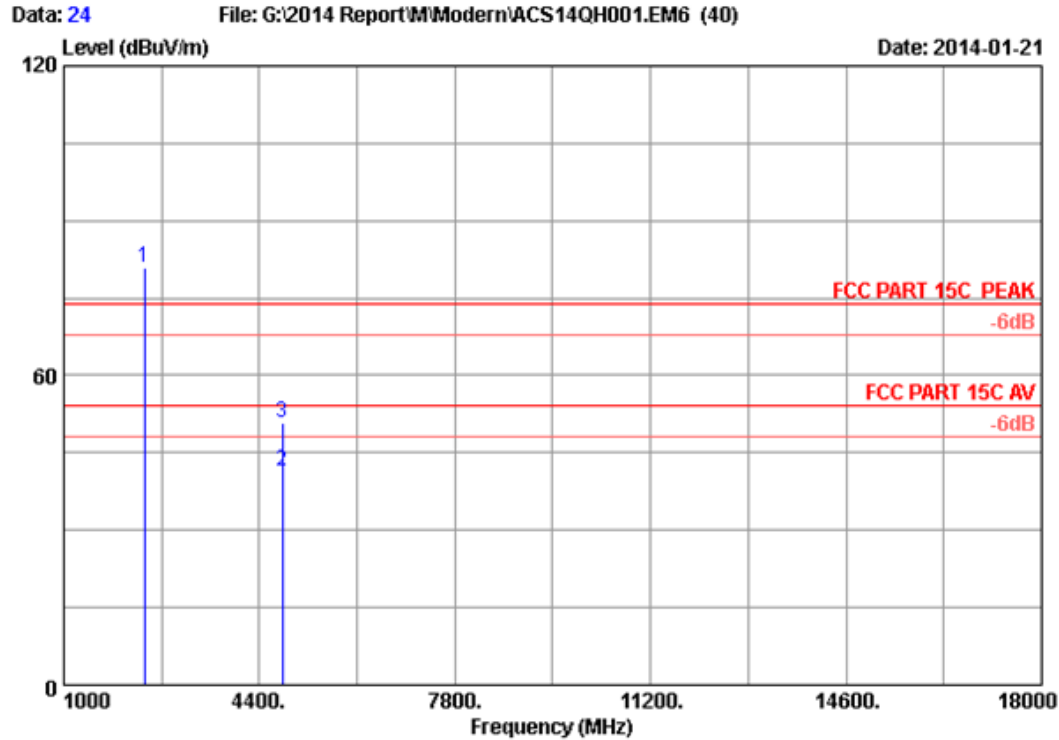
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	80.45	78.73	74.00	-4.73	Peak
2	4804.000	32.85	8.56	35.70	46.38	52.09	74.00	21.91	Peak
3	4804.000	32.85	8.56	35.70	38.09	43.80	54.00	10.20	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2402MHz Tx
M/N : IKBC384S

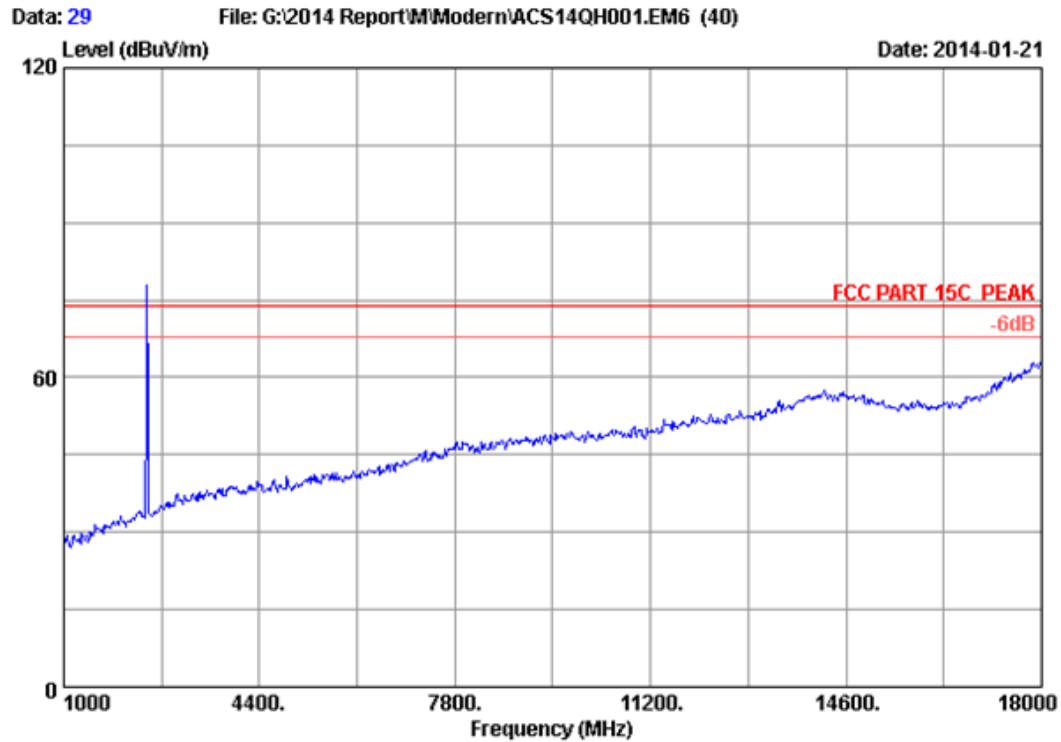


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx
 M/N : IKBC384S

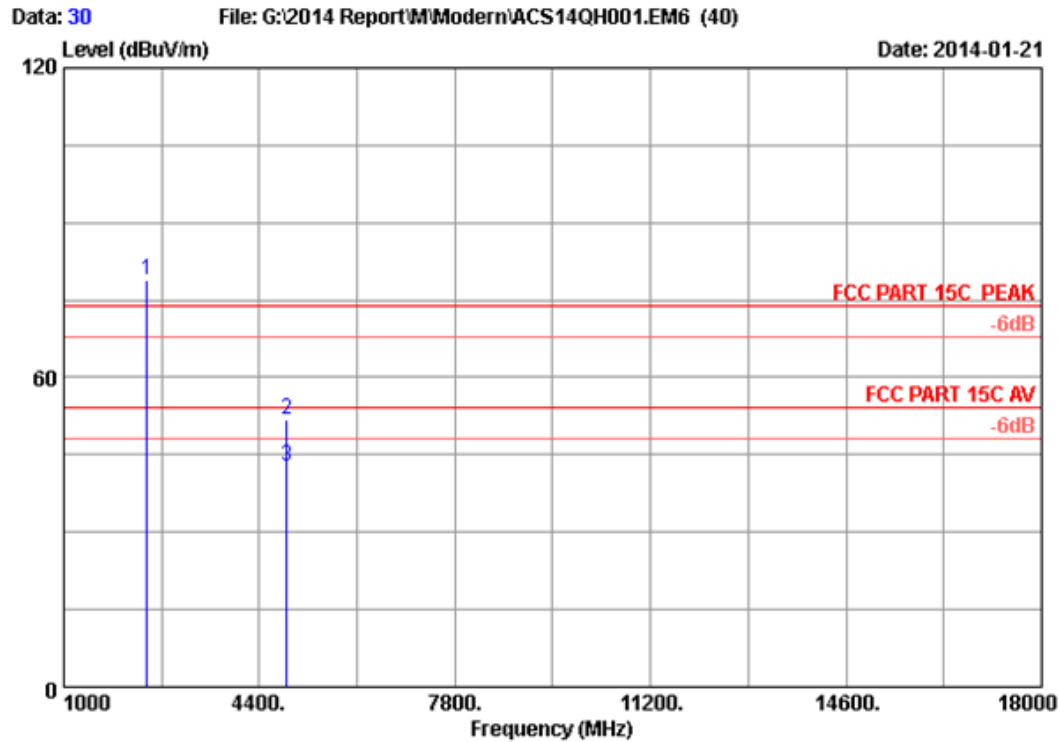
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.18	5.80	35.70	82.56	80.84	74.00	-6.84	Peak
2	4804.000	32.85	8.56	35.70	35.86	41.57	54.00	12.43	Average
3	4804.000	32.85	8.56	35.70	45.08	50.79	74.00	23.21	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2441MHz Tx
M/N : IKBC384S

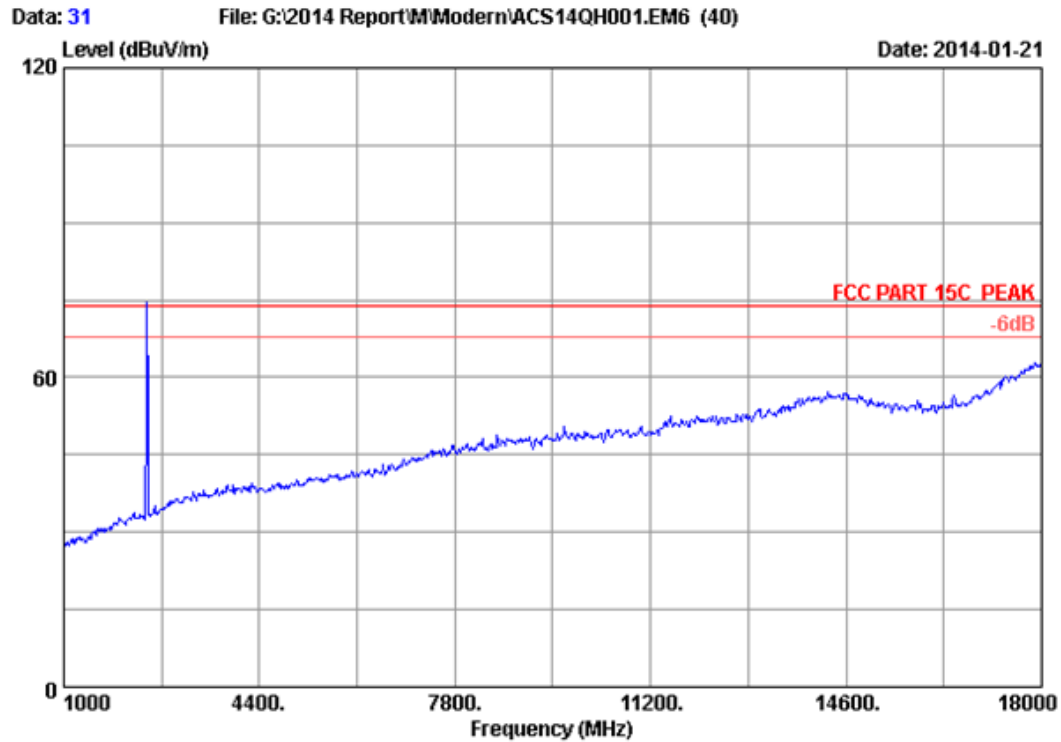


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2441MHz Tx
 M/N : IKBC384S

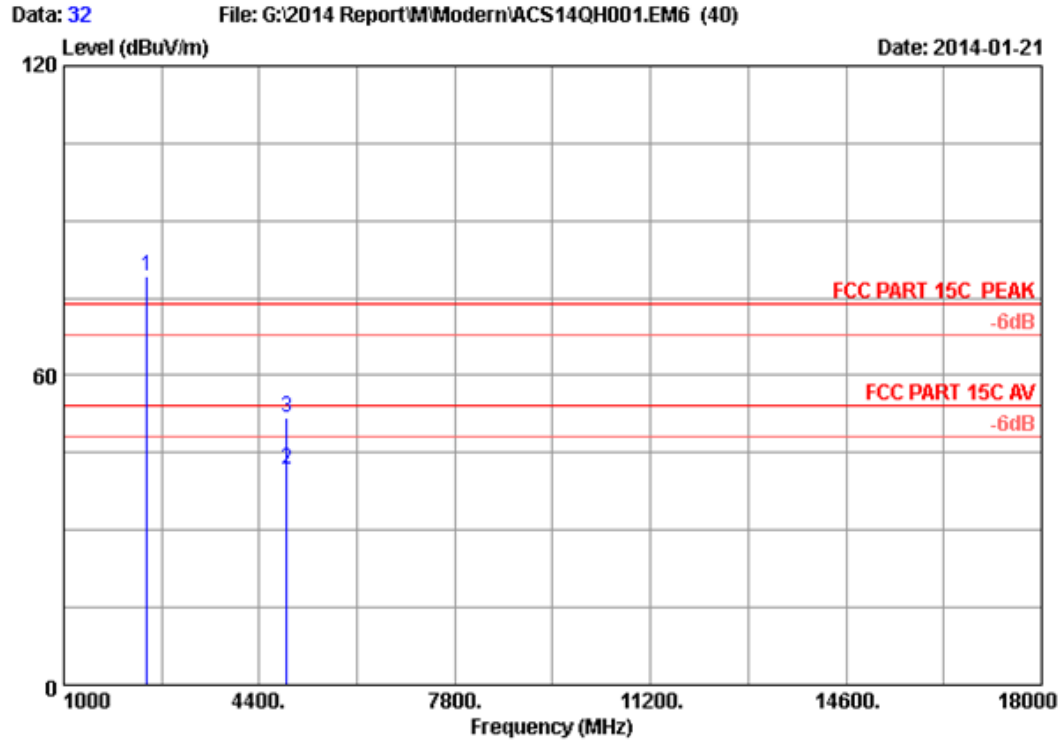
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	80.56	78.99	74.00	-4.99	Peak
2	4882.000	32.99	8.64	35.70	45.86	51.79	74.00	22.21	Peak
3	4882.000	32.99	8.64	35.70	36.82	42.75	54.00	11.25	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2441MHz Tx
M/N : IKBC384S

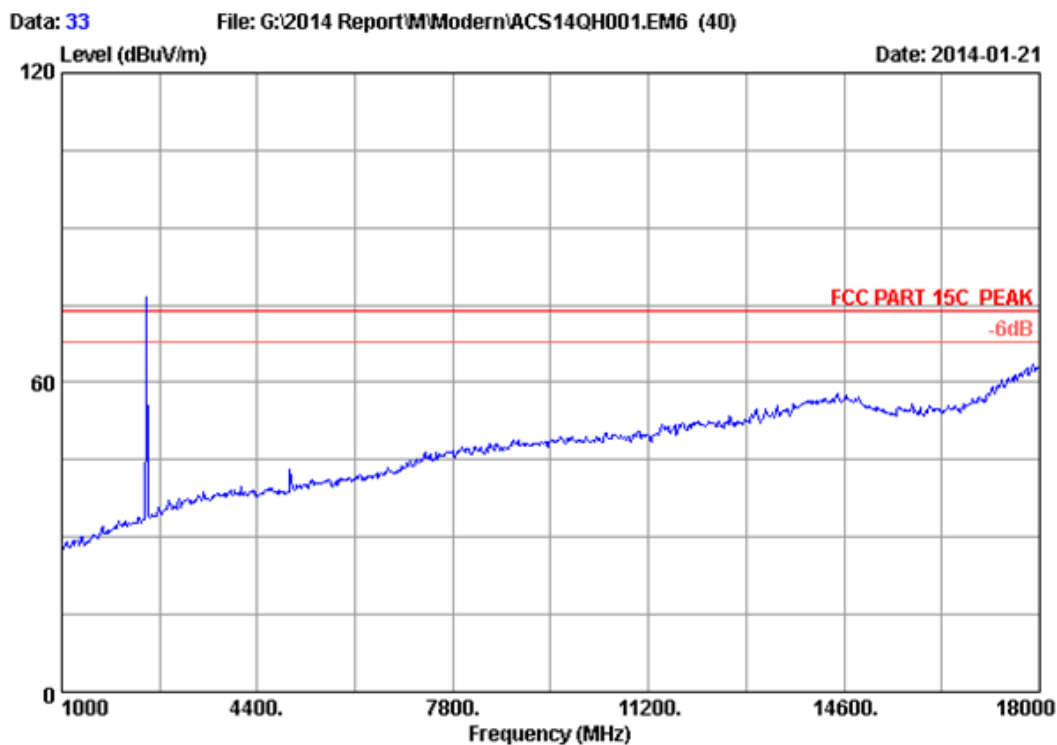


Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2441MHz Tx
M/N : IKBC384S

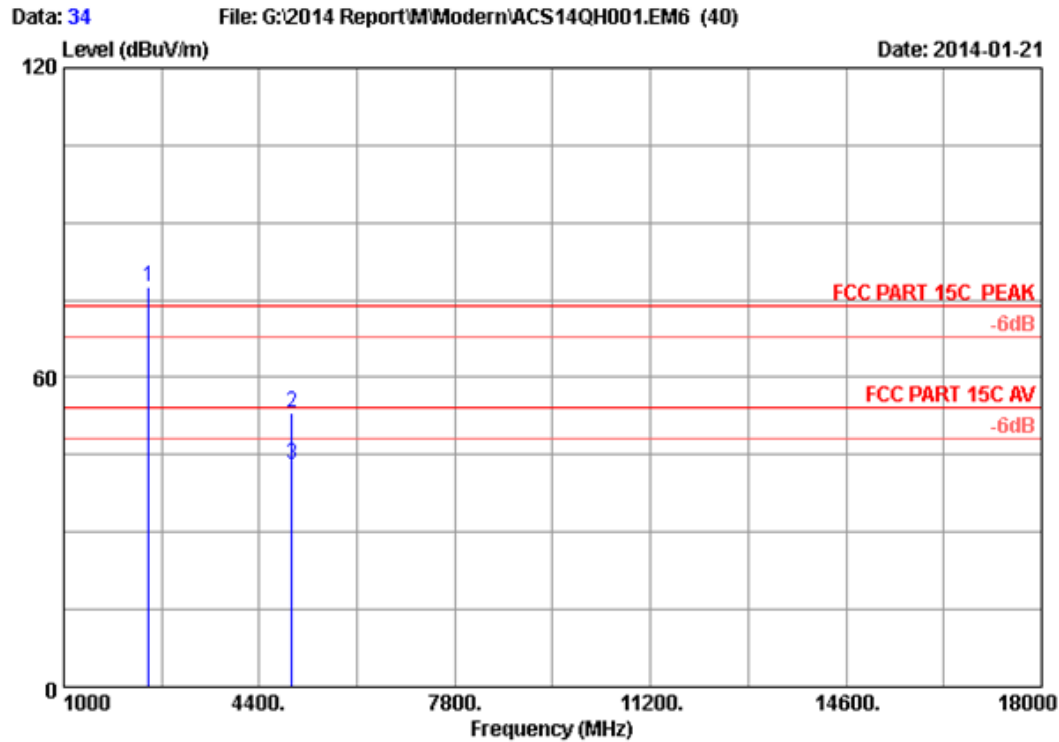
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	80.67	79.10	74.00	-5.10	Peak
2	4882.000	32.99	8.64	35.70	35.86	41.79	54.00	12.21	Average
3	4882.000	32.99	8.64	35.70	45.86	51.79	74.00	22.21	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2480MHz Tx
M/N : IKBC384S

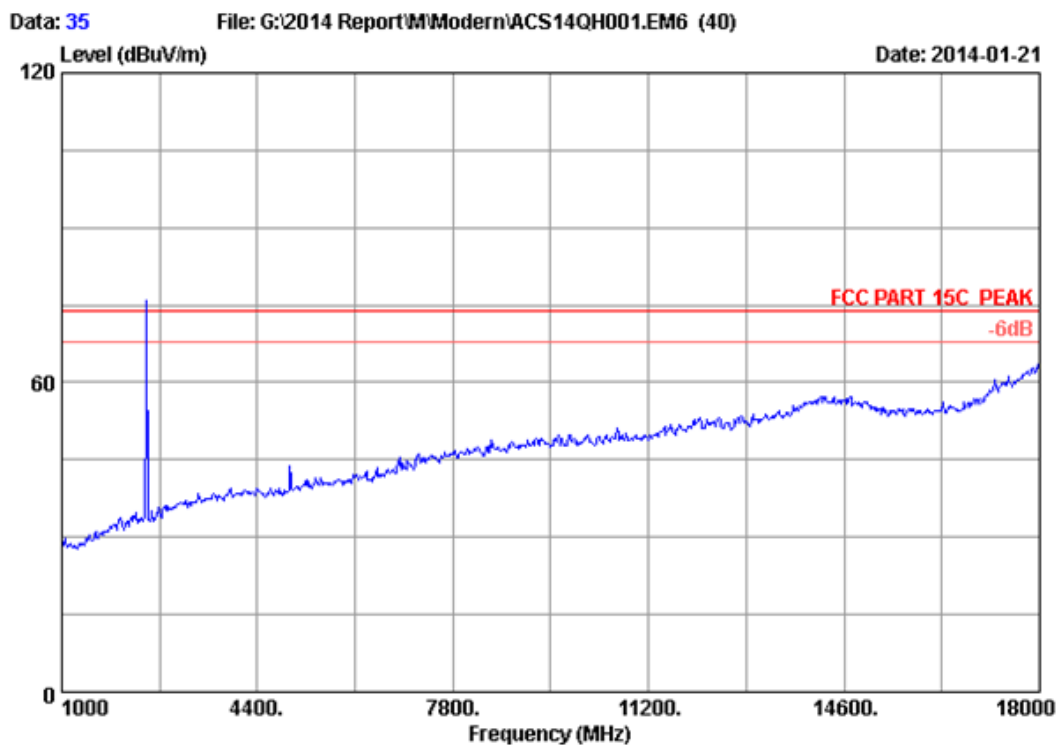


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S

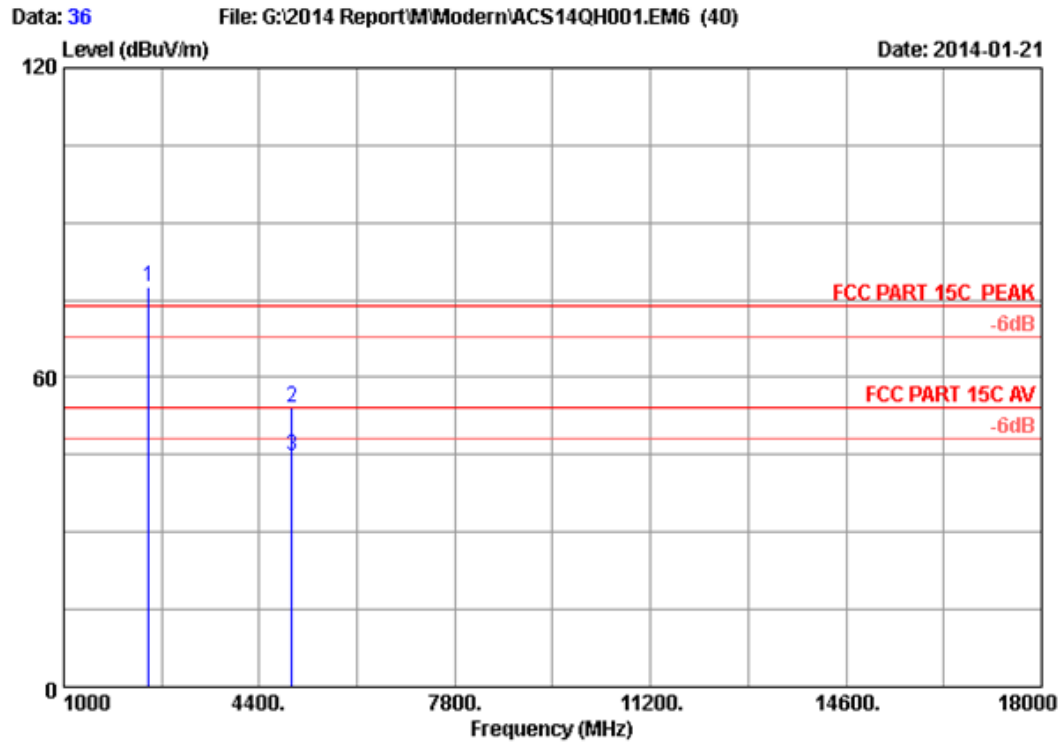
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	78.96	77.53	74.00	-3.53	Peak
2	4960.000	33.13	8.72	35.70	47.12	53.27	74.00	20.73	Peak
3	4960.000	33.13	8.72	35.70	37.08	43.23	54.00	10.77	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	79.08	77.65	74.00	-3.65	Peak
2	4960.000	33.13	8.72	35.70	48.09	54.24	74.00	19.76	Peak
3	4960.000	33.13	8.72	35.70	38.52	44.67	54.00	9.33	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

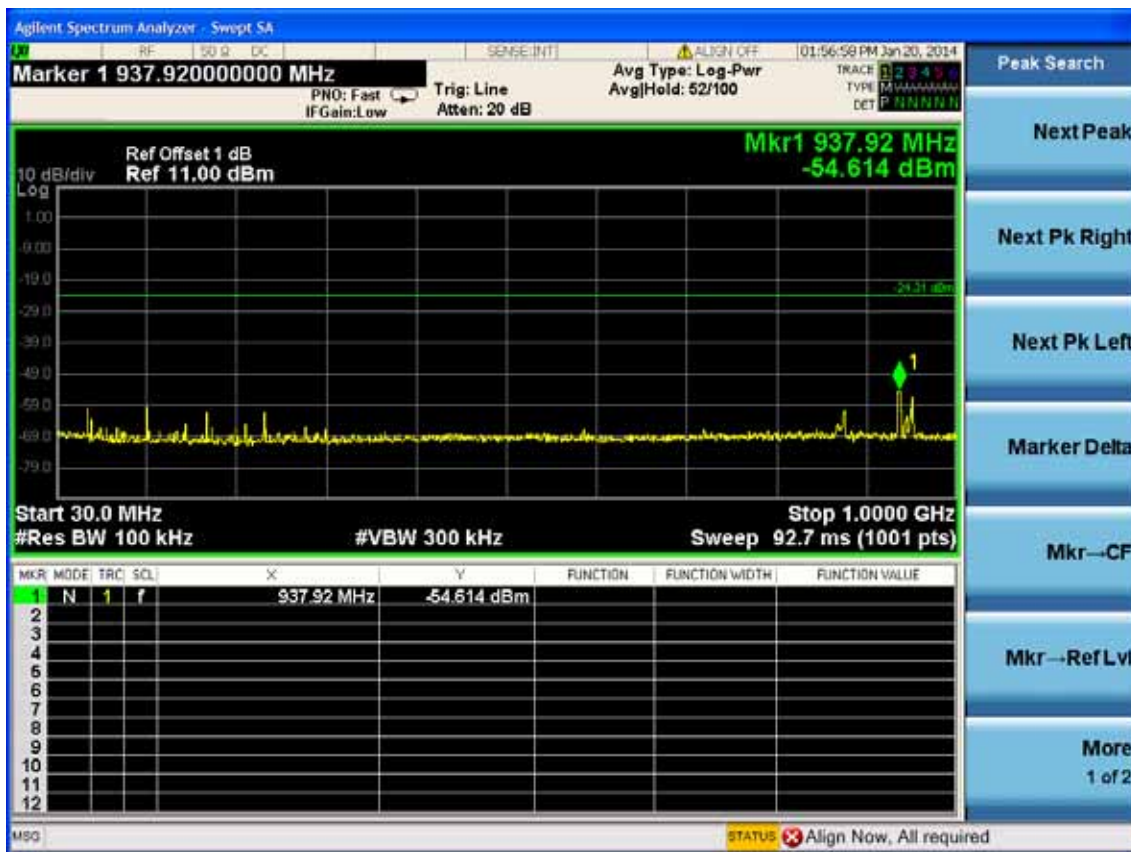
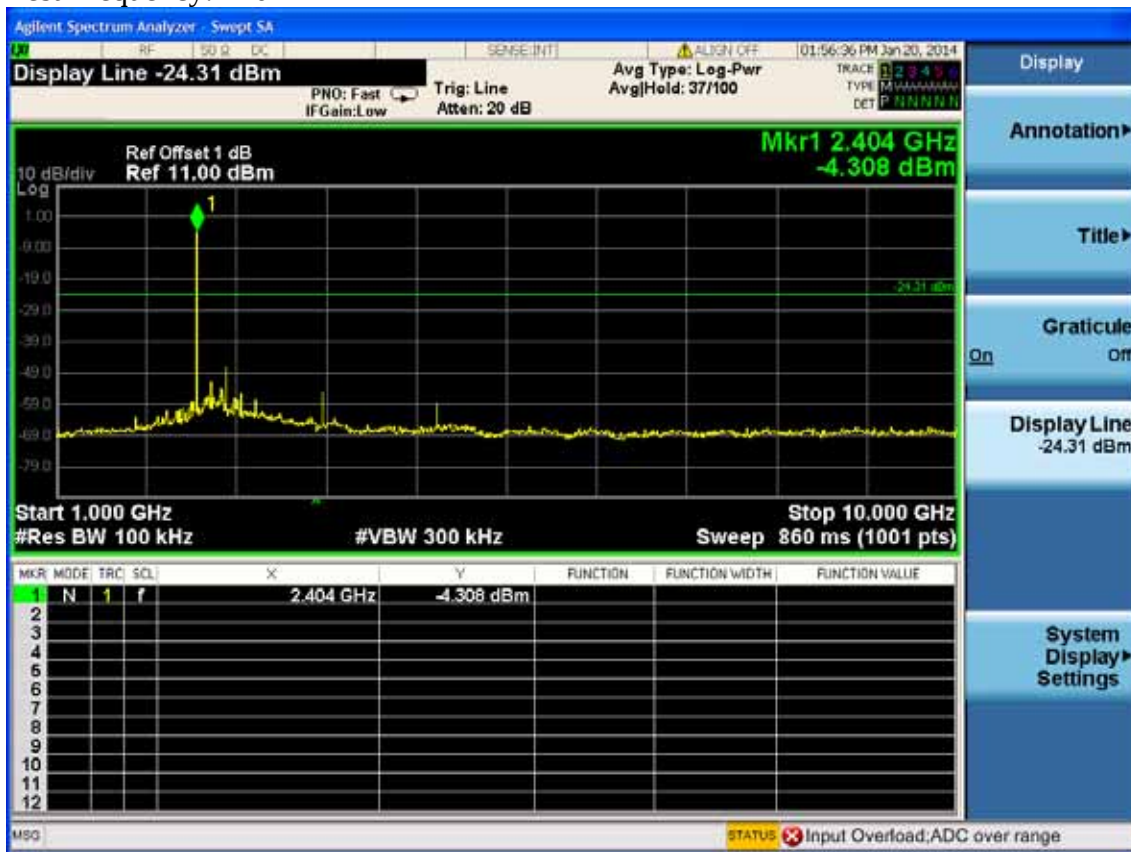
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

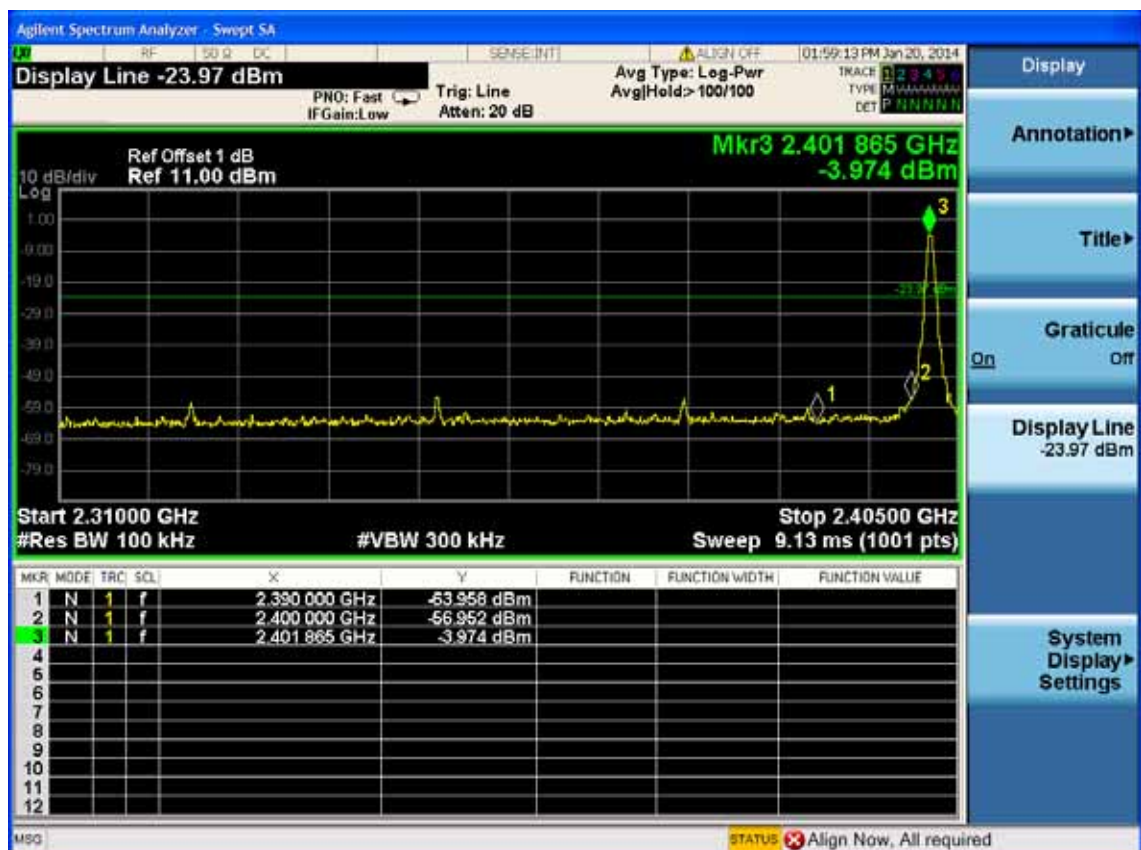
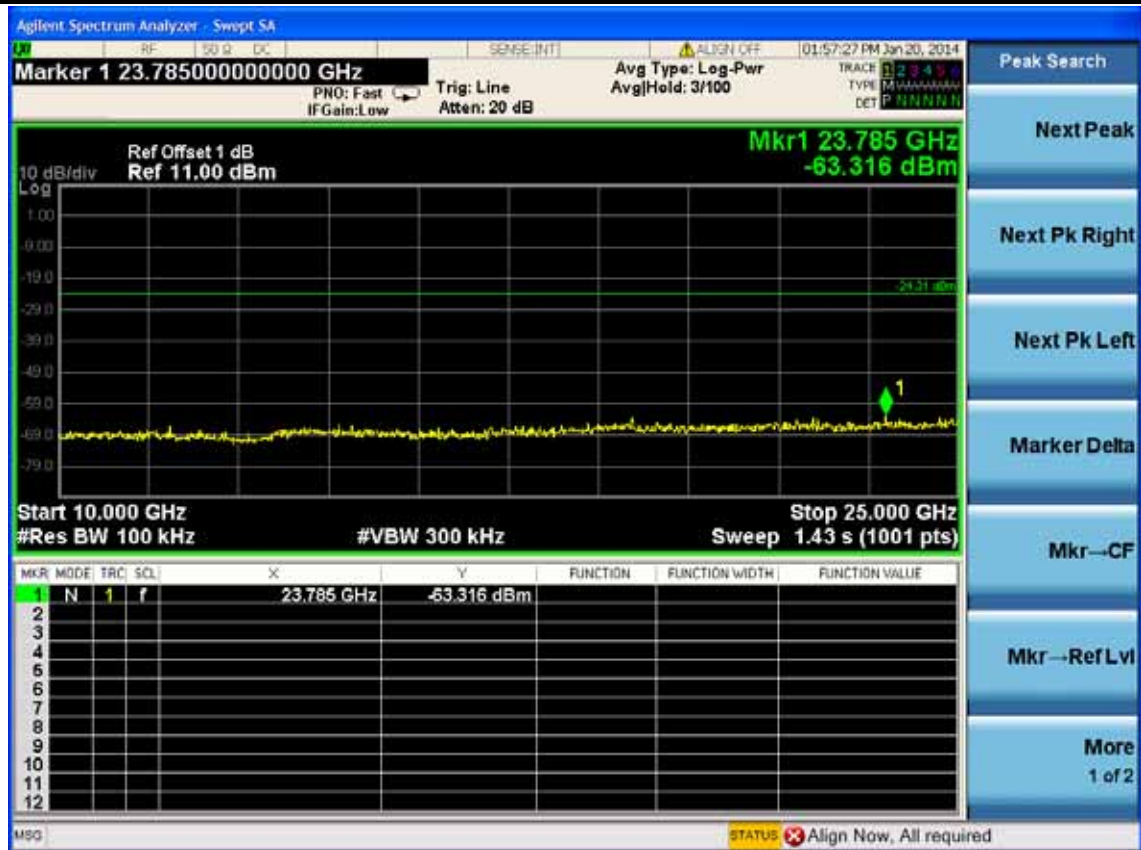
5.4. Test result

PASS (The testing data was attached in the next pages.)

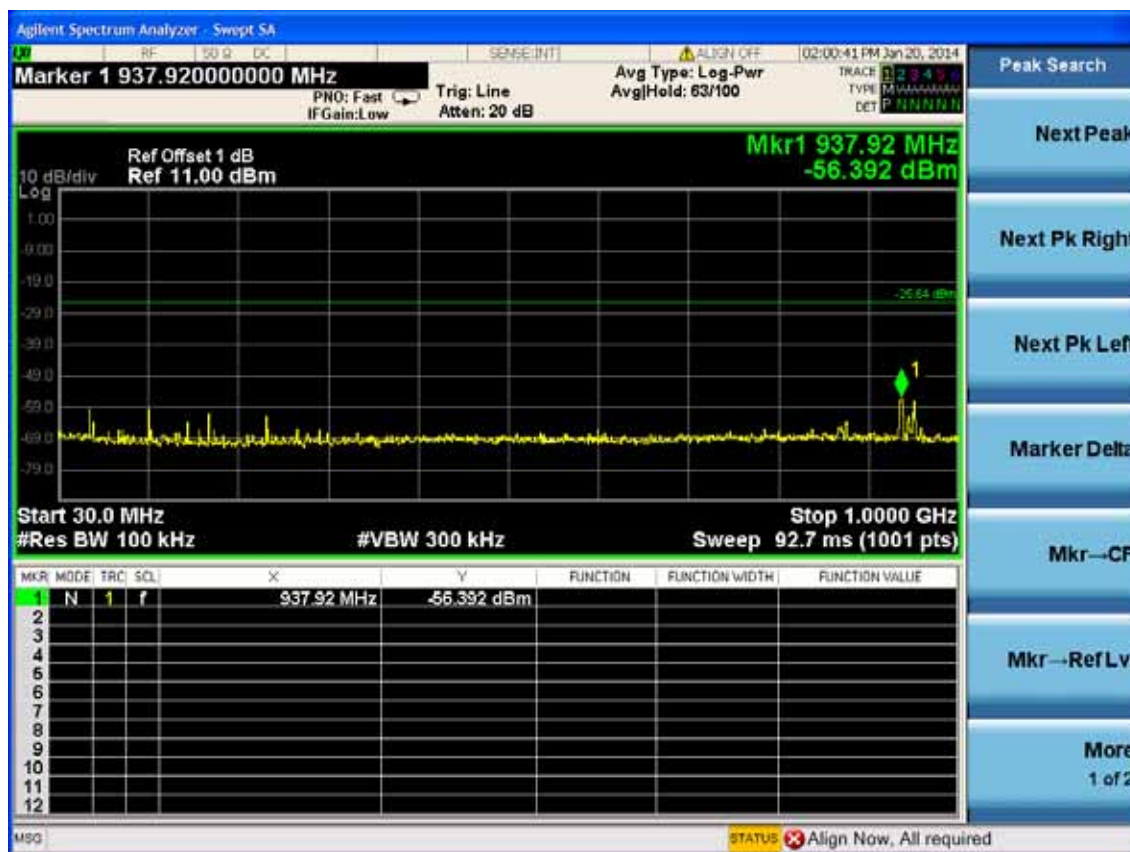
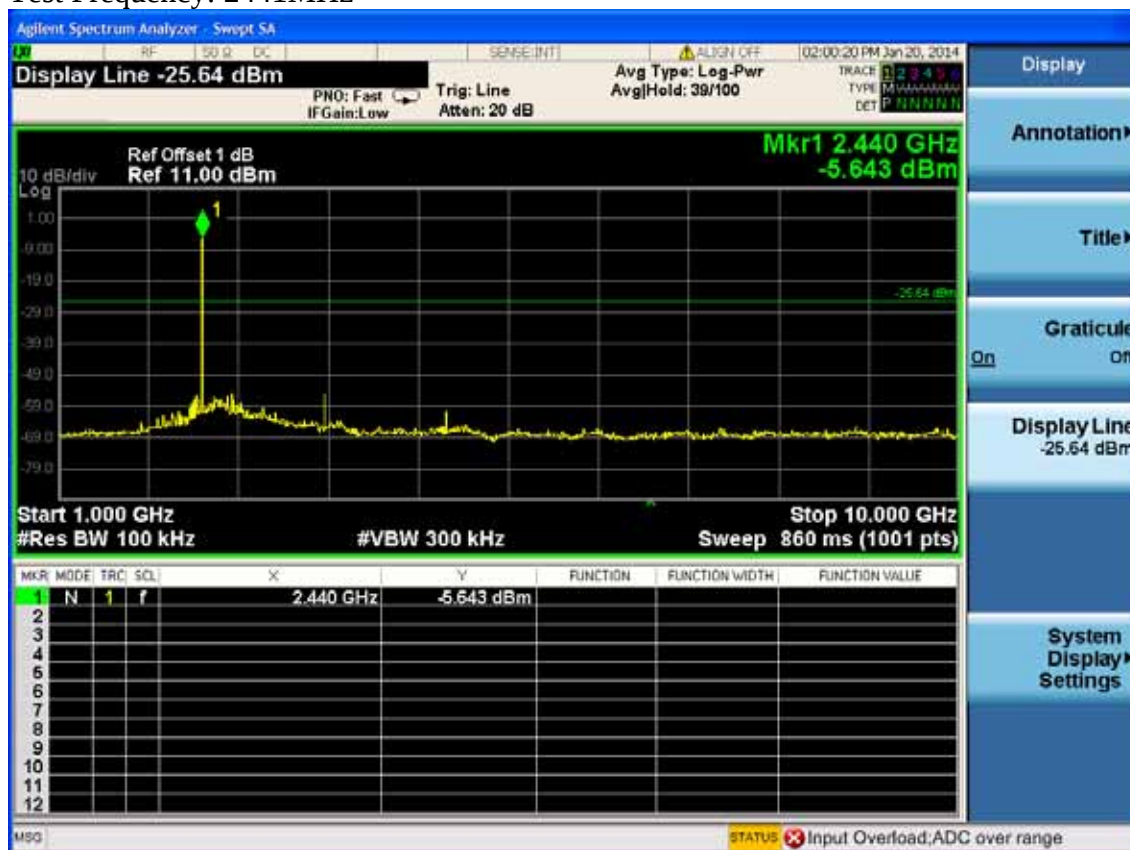
GFSK

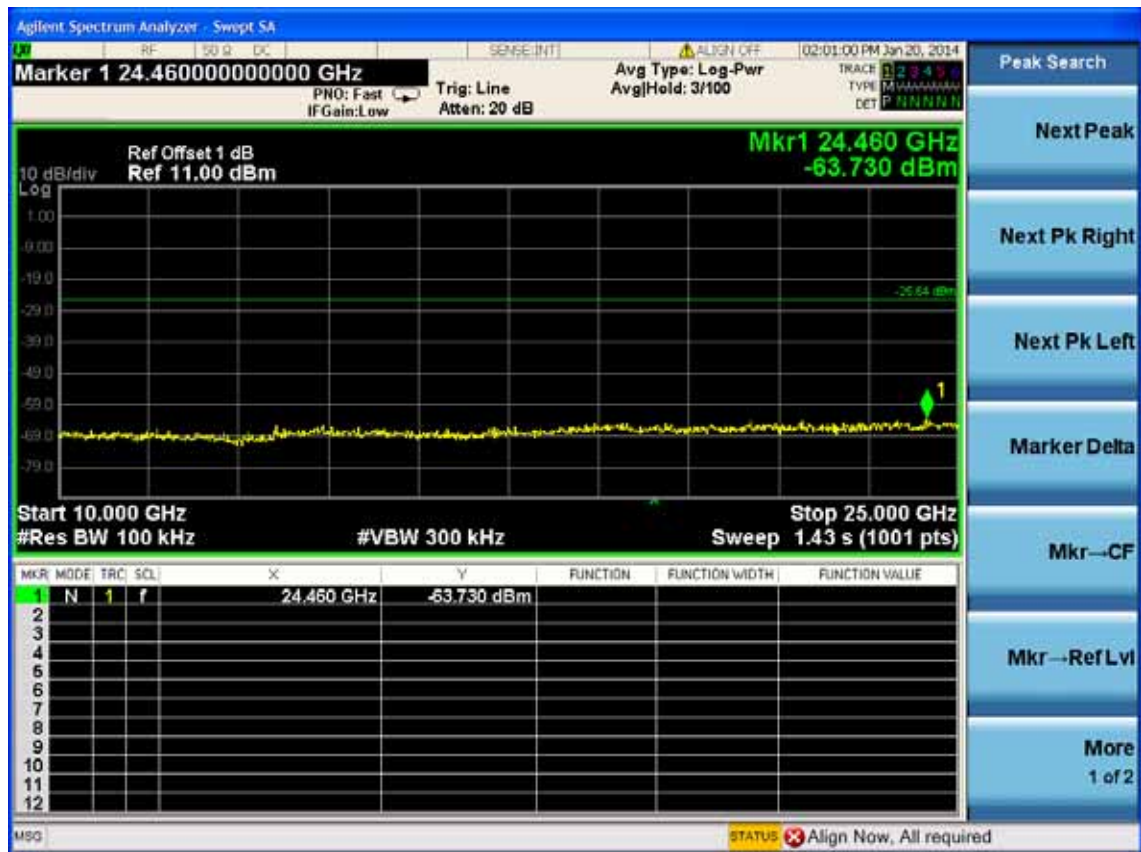
Test Frequency: 2402MHz



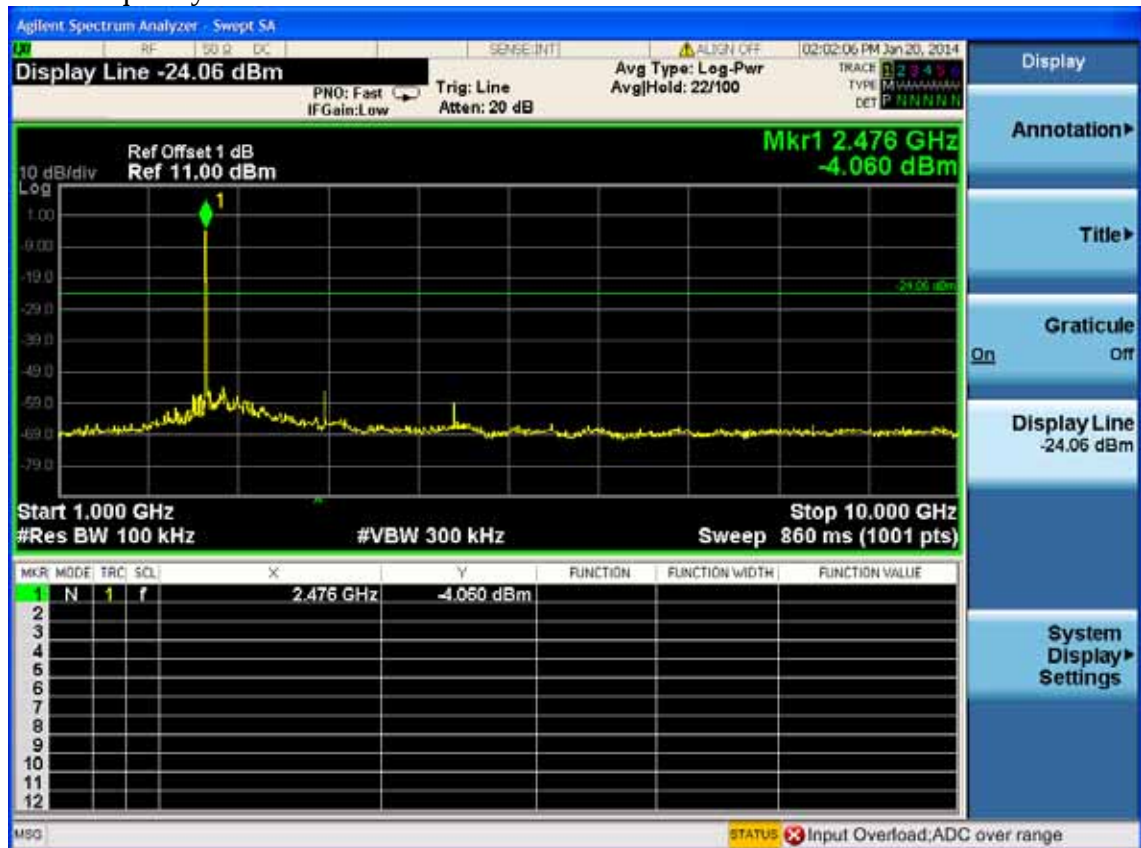


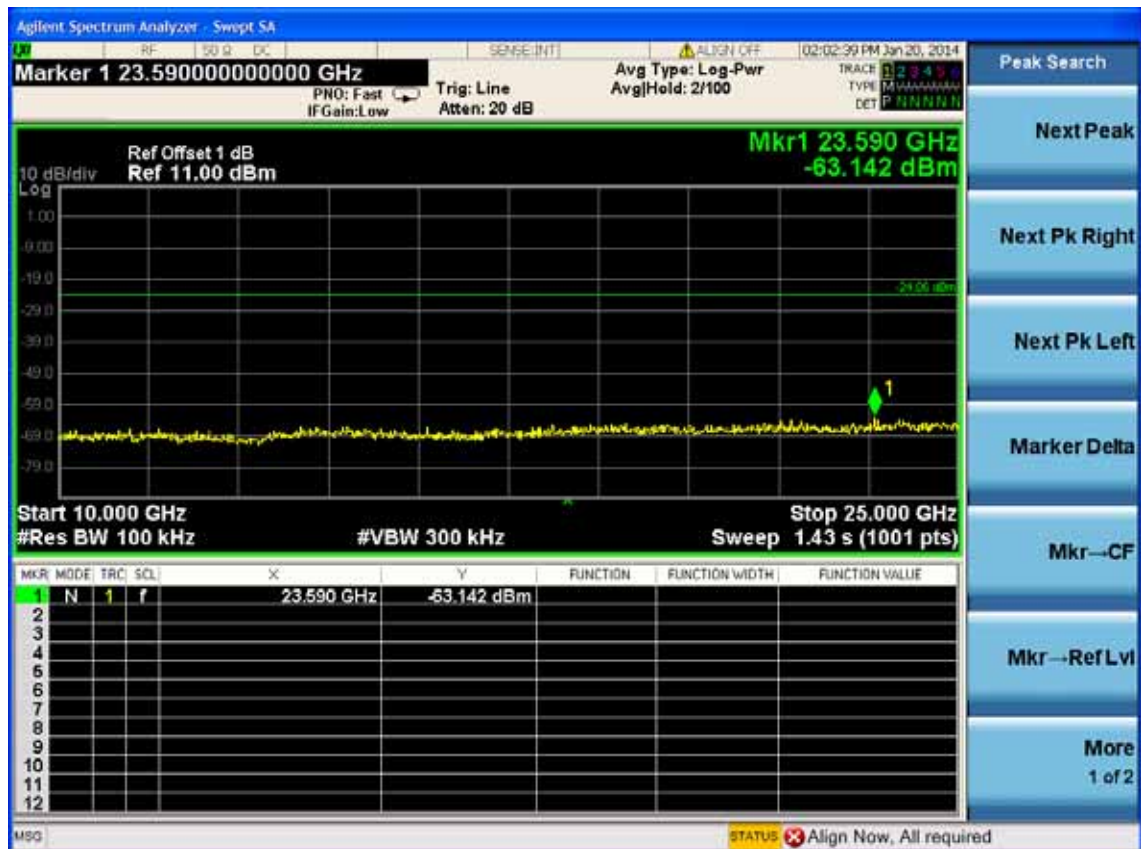
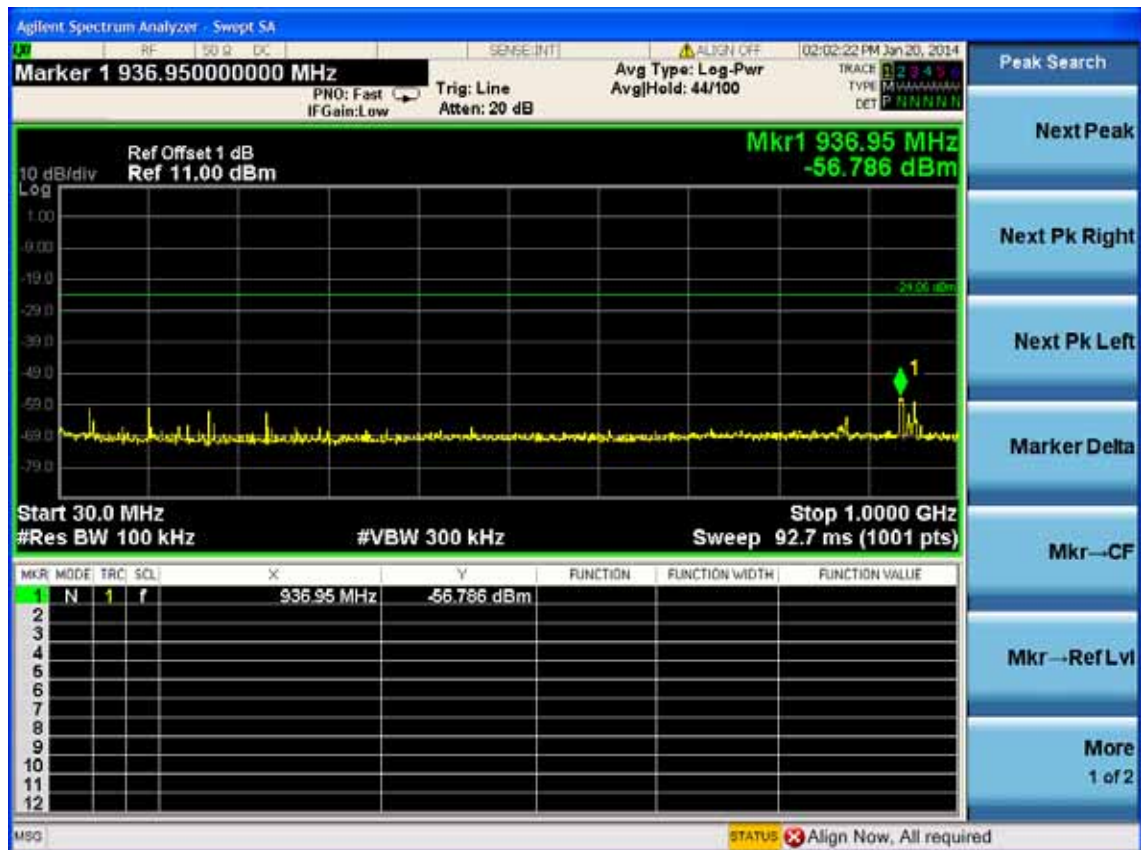
Test Frequency: 2441MHz

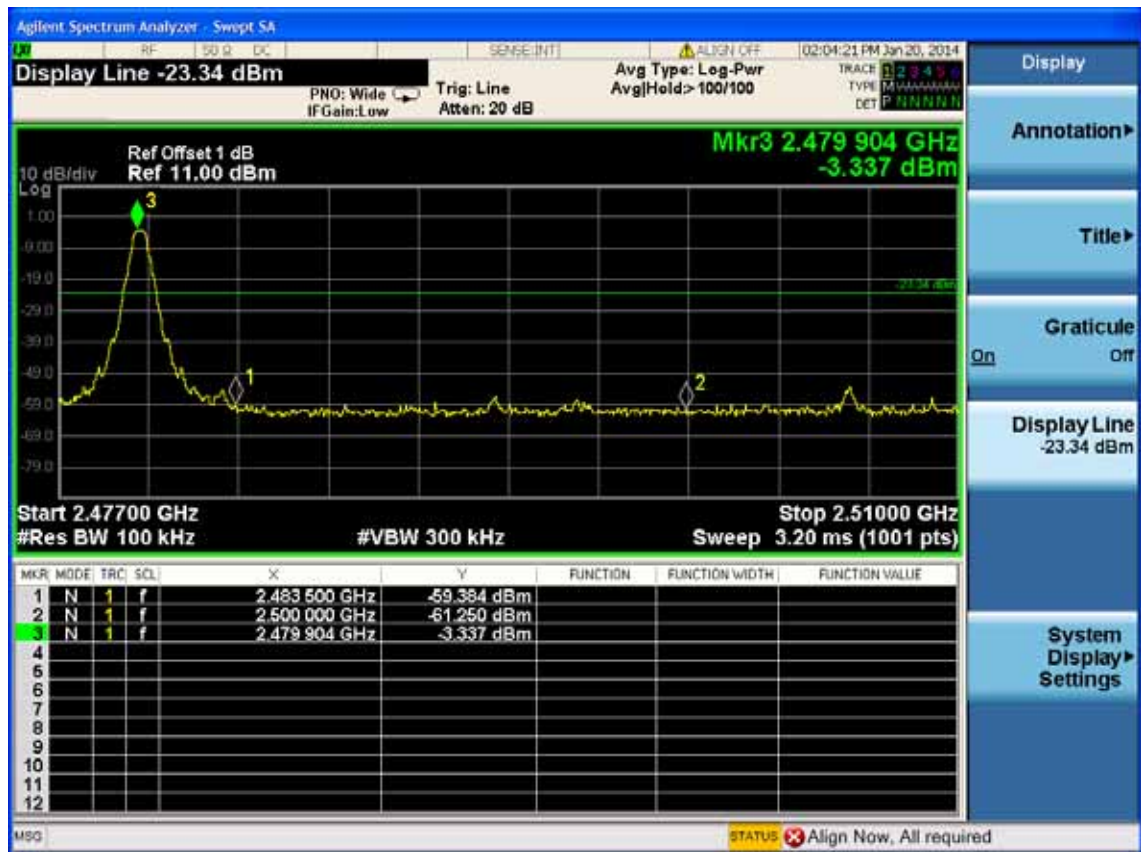




Test Frequency: 2480MHz

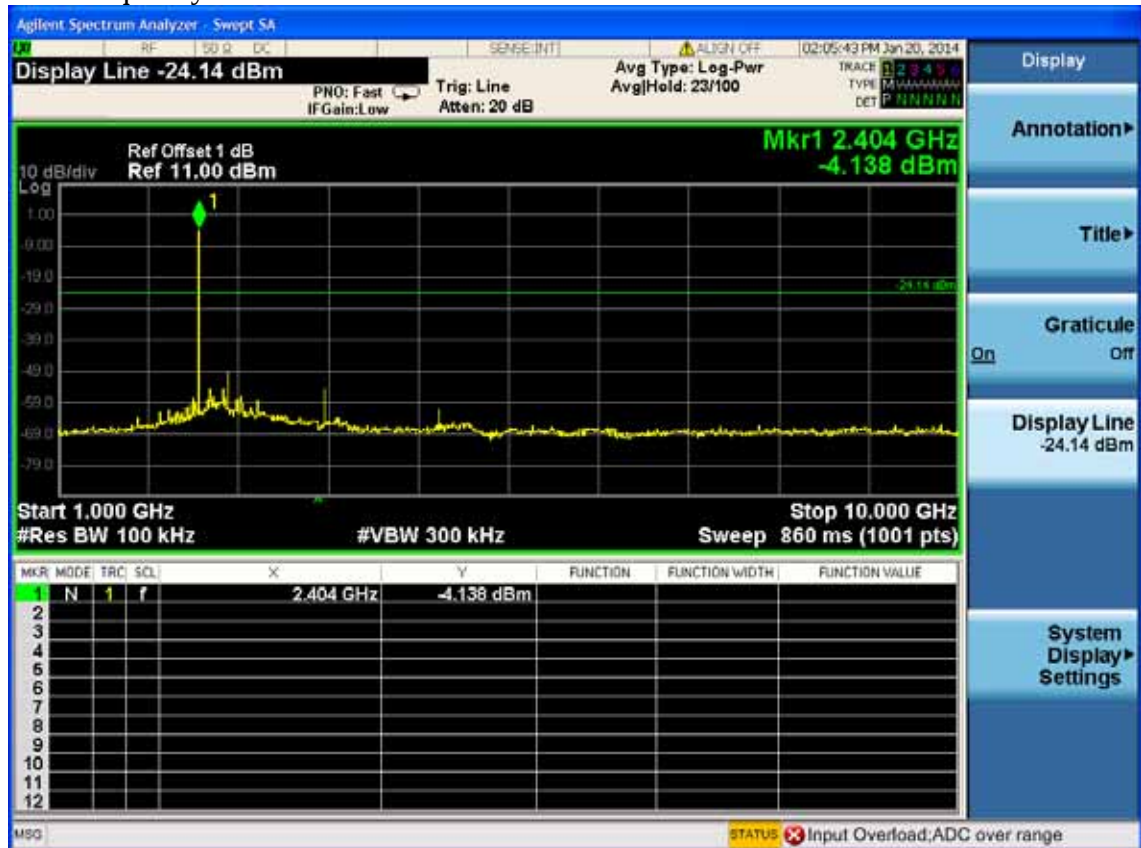


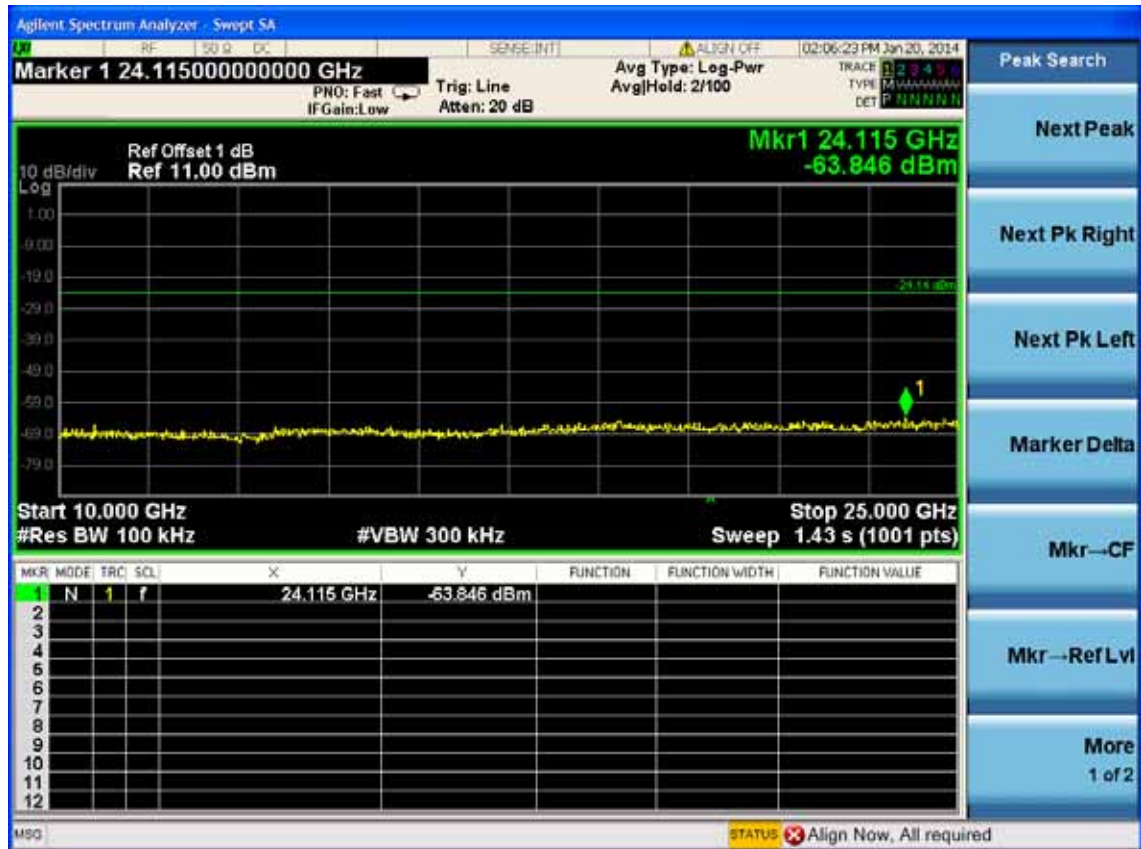
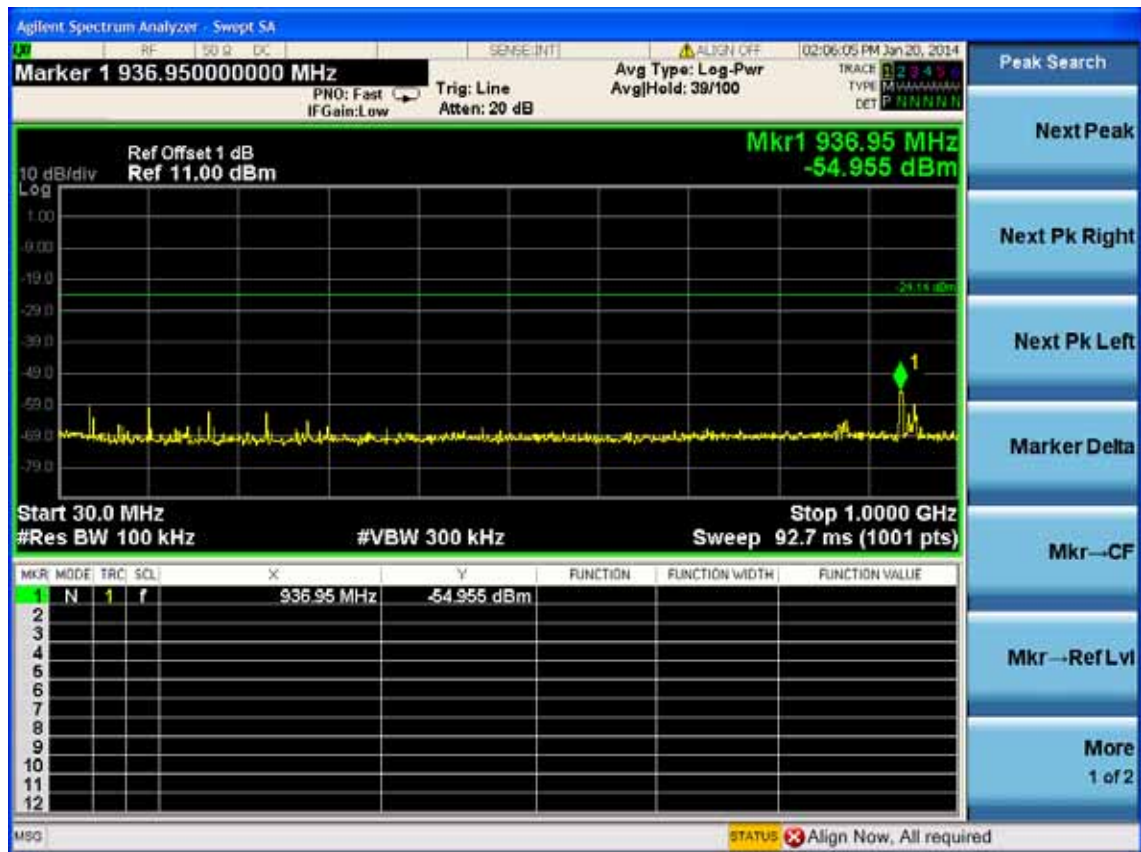


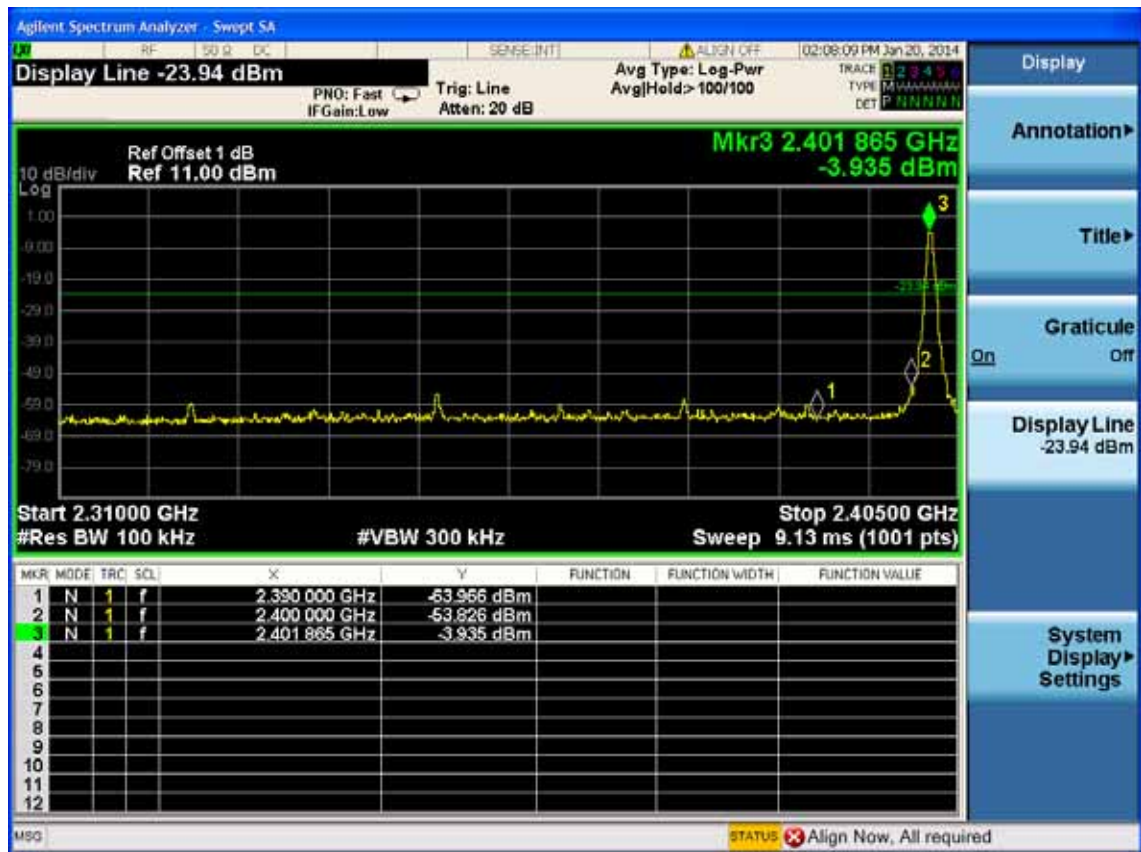


8-DPSK

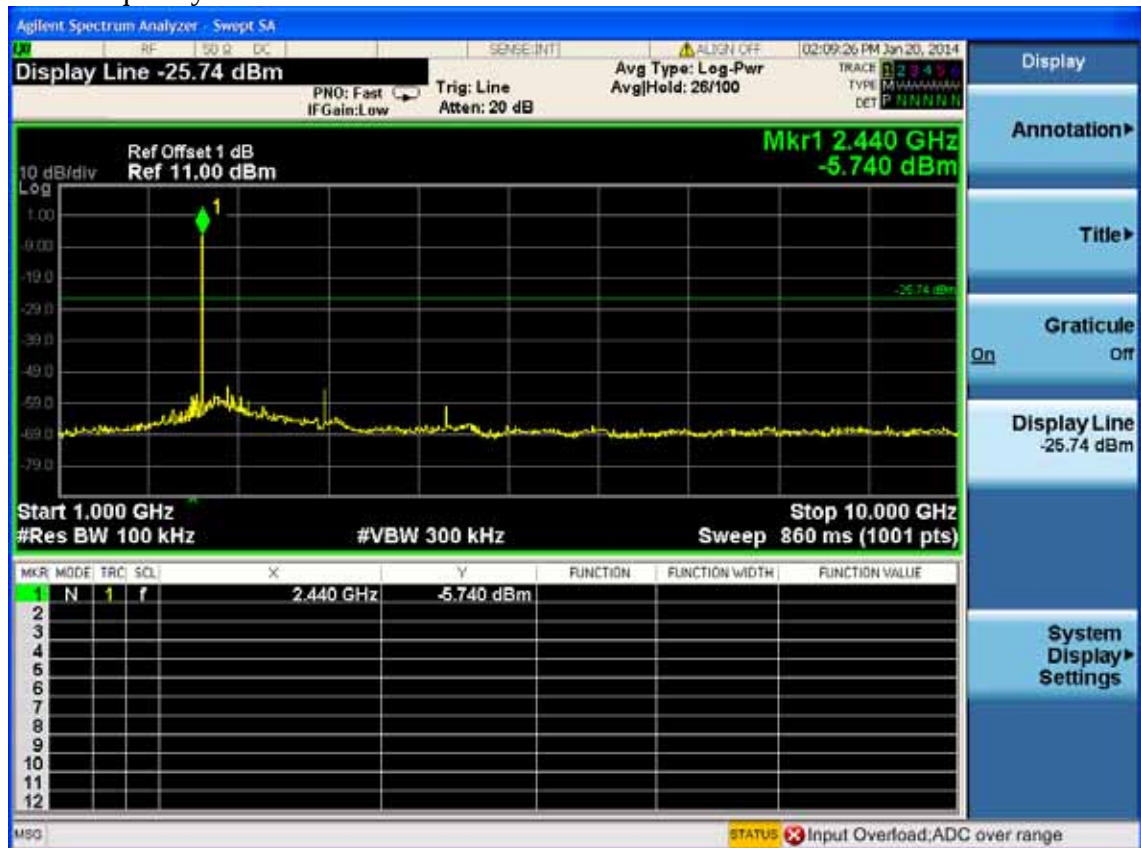
Test Frequency: 2402MHz

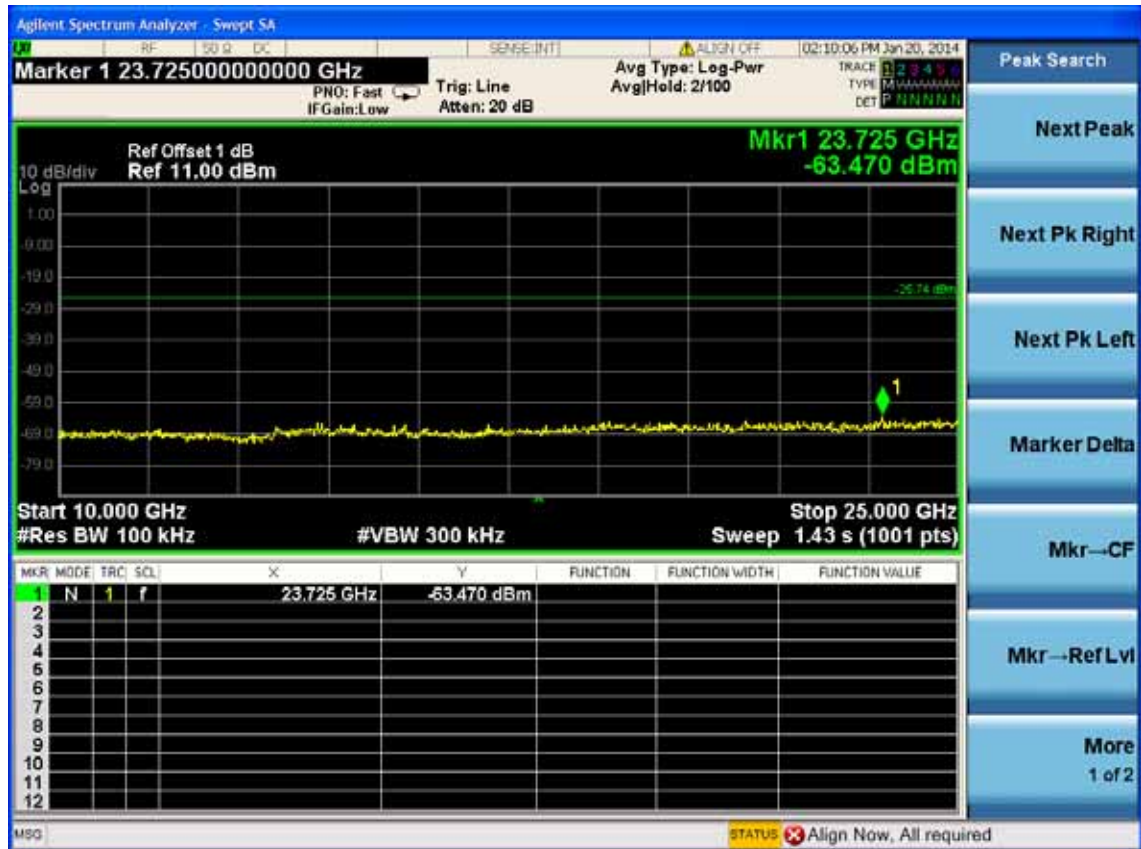
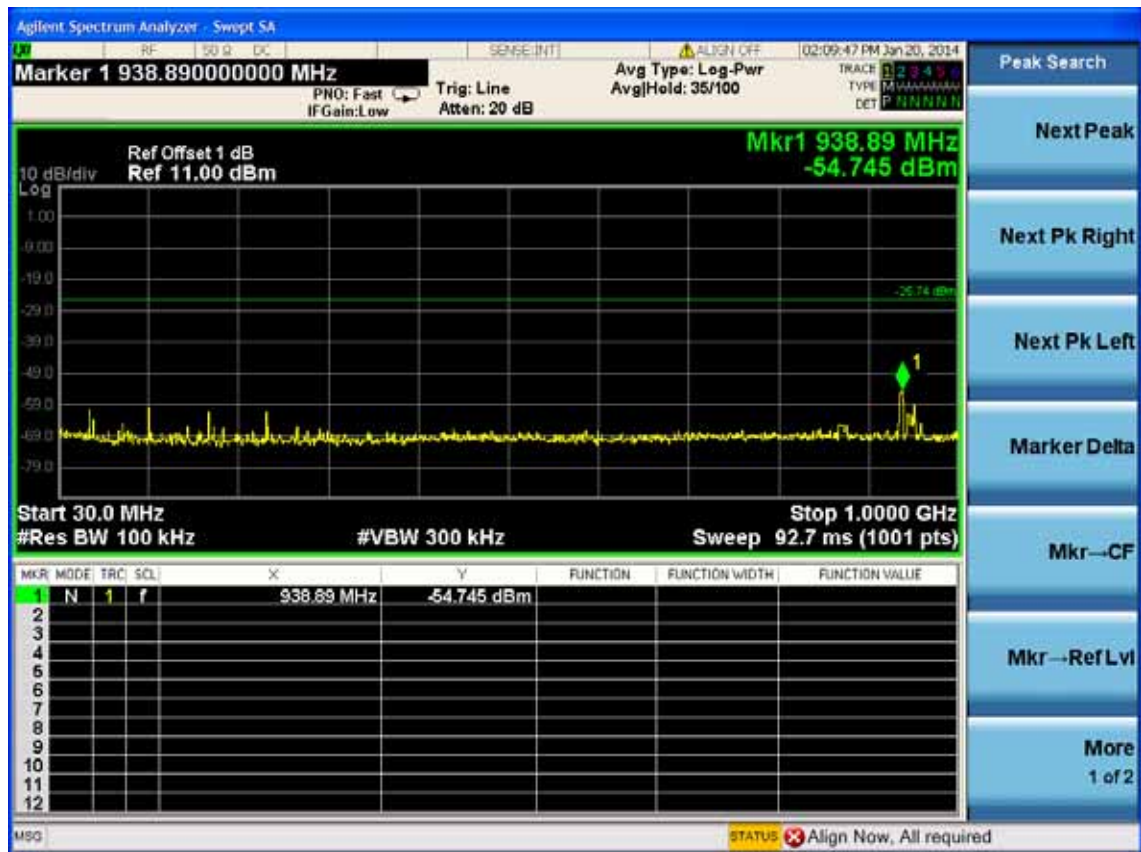




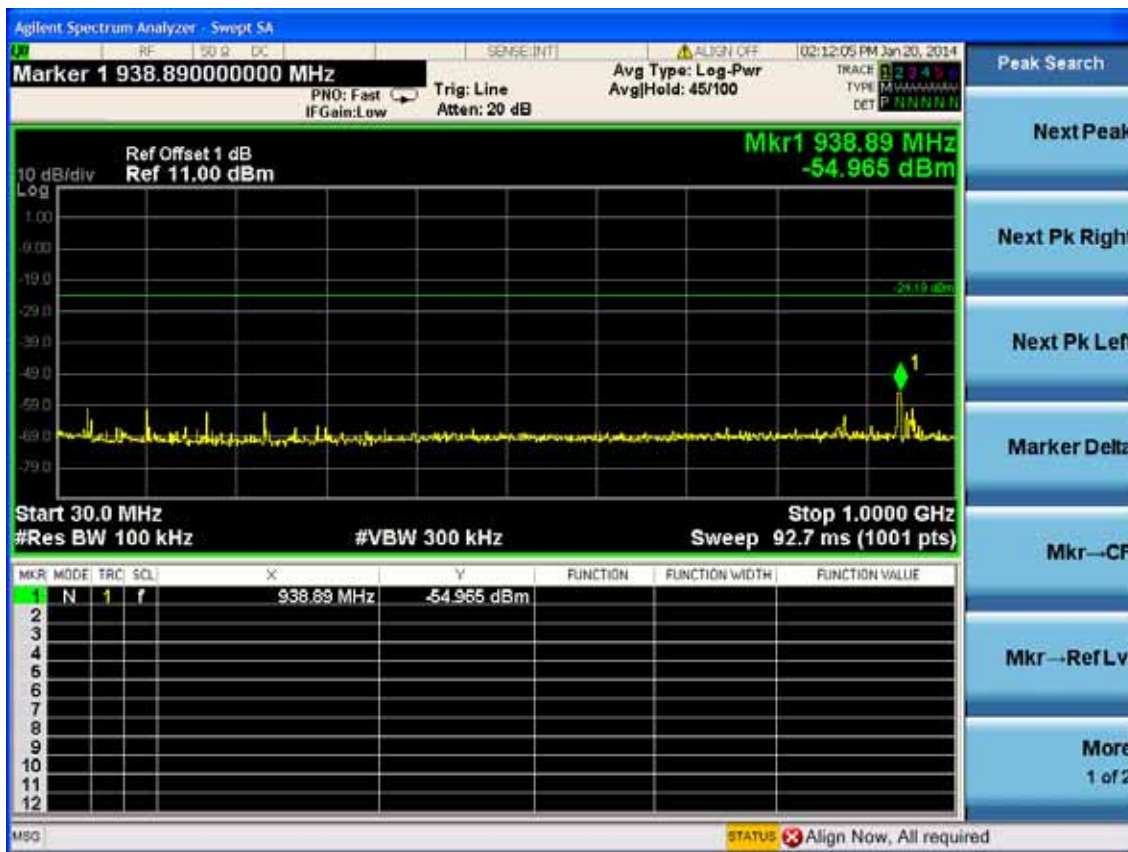
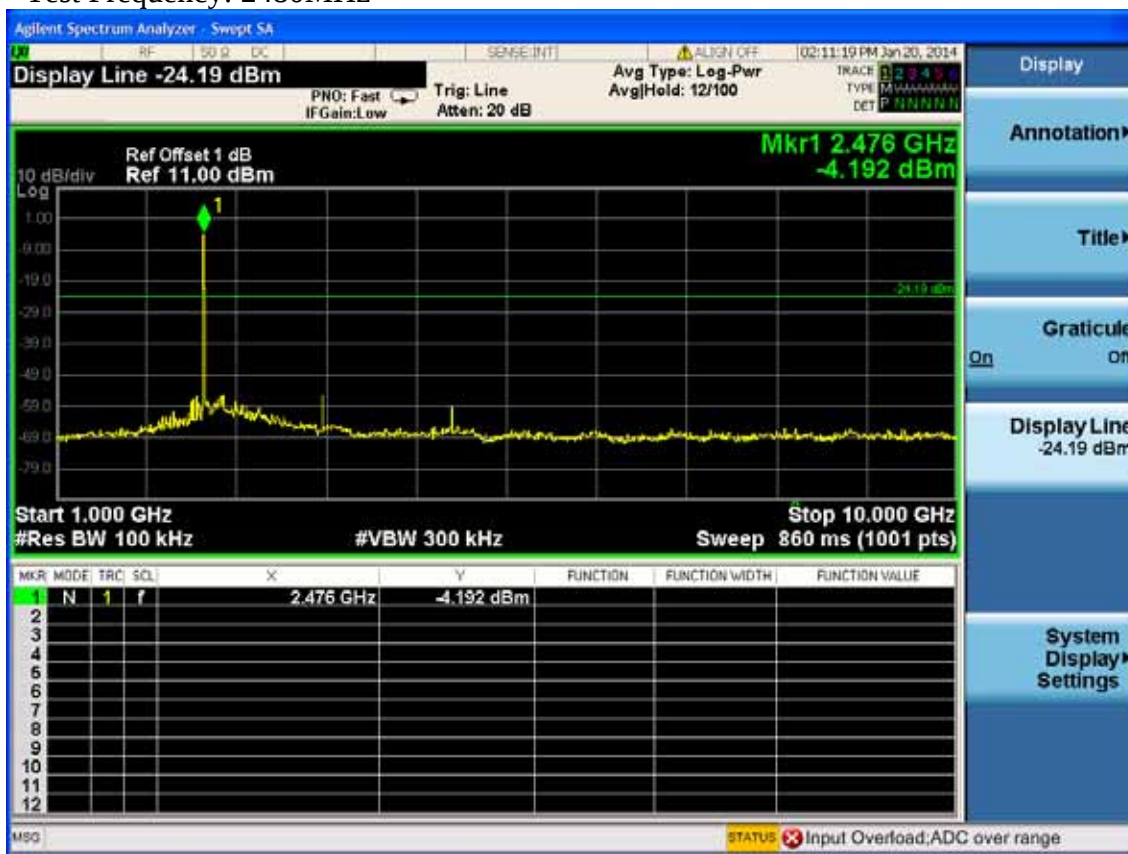


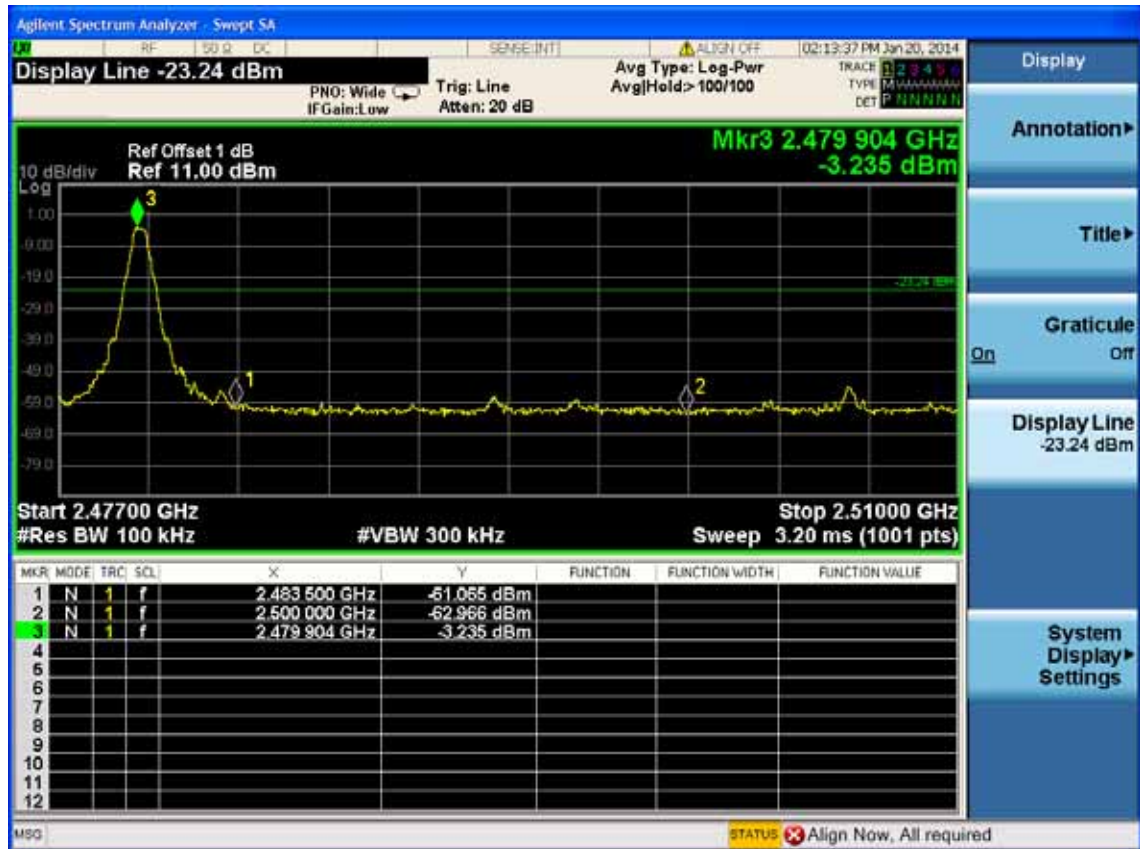
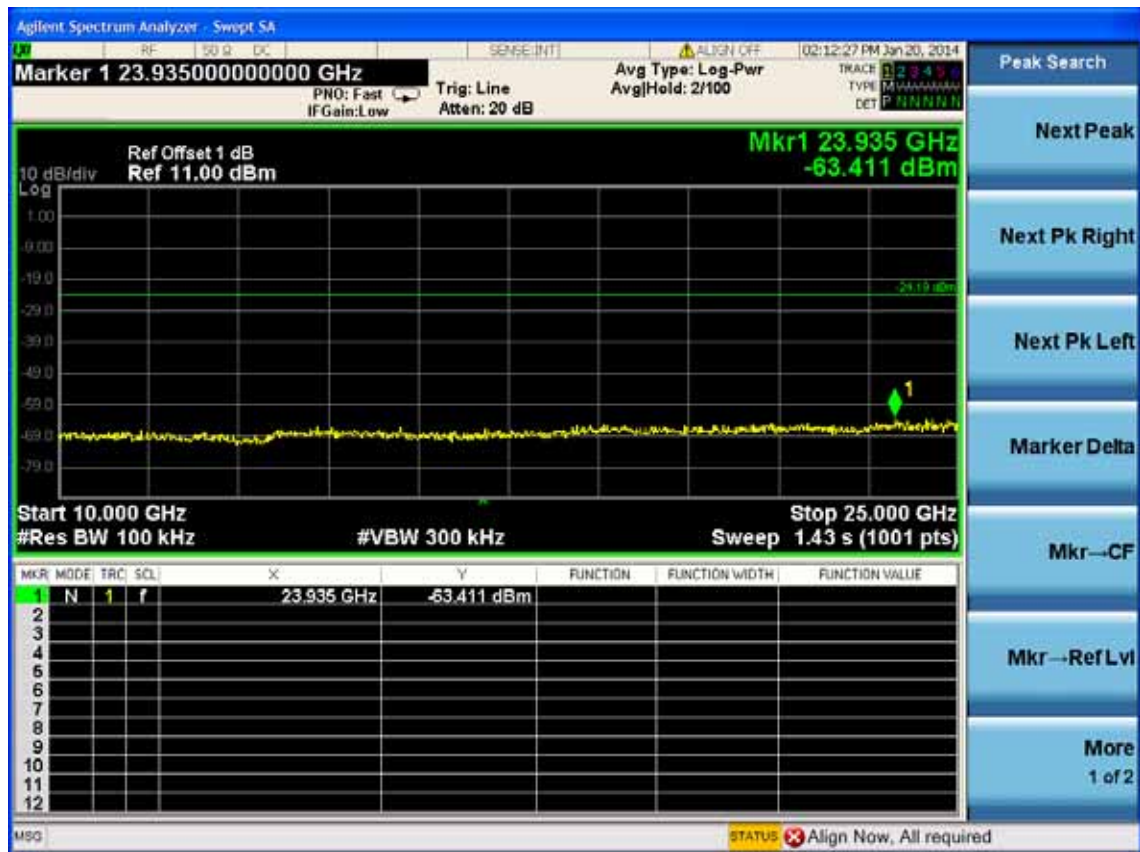
Test Frequency: 2441MHz



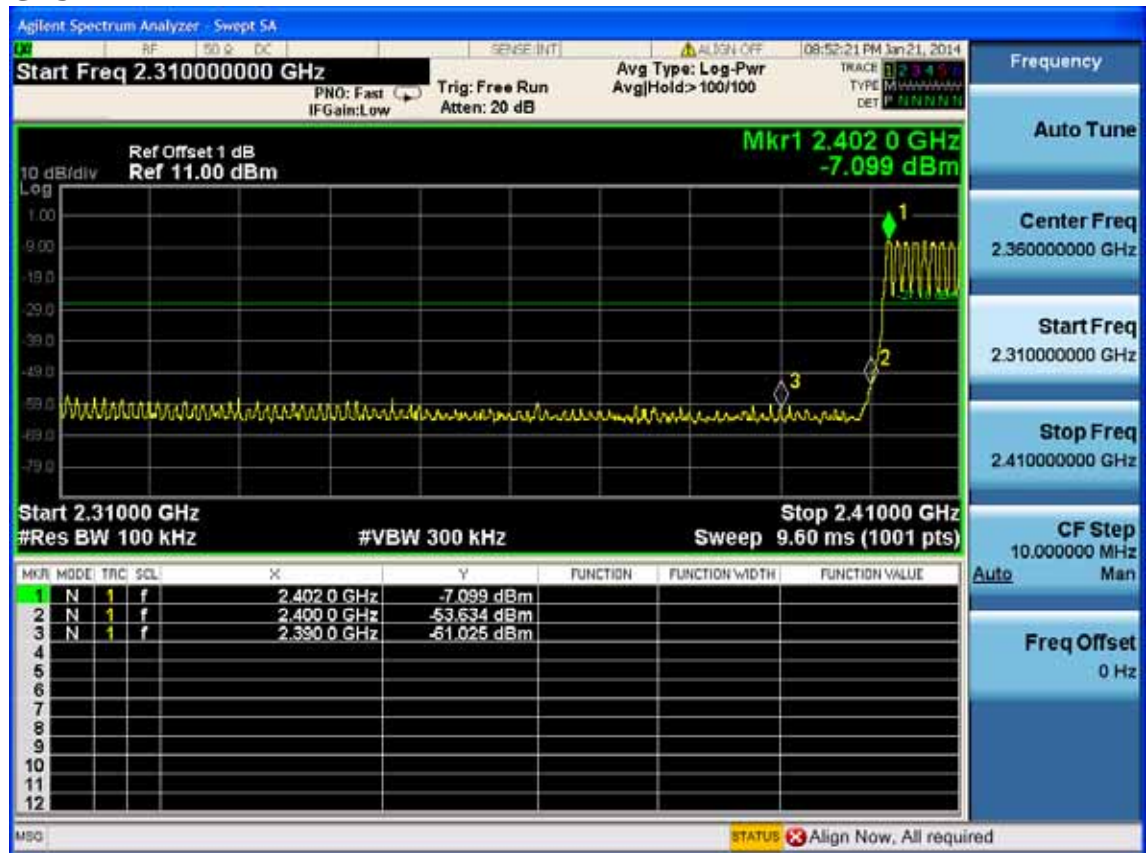


Test Frequency: 2480MHz

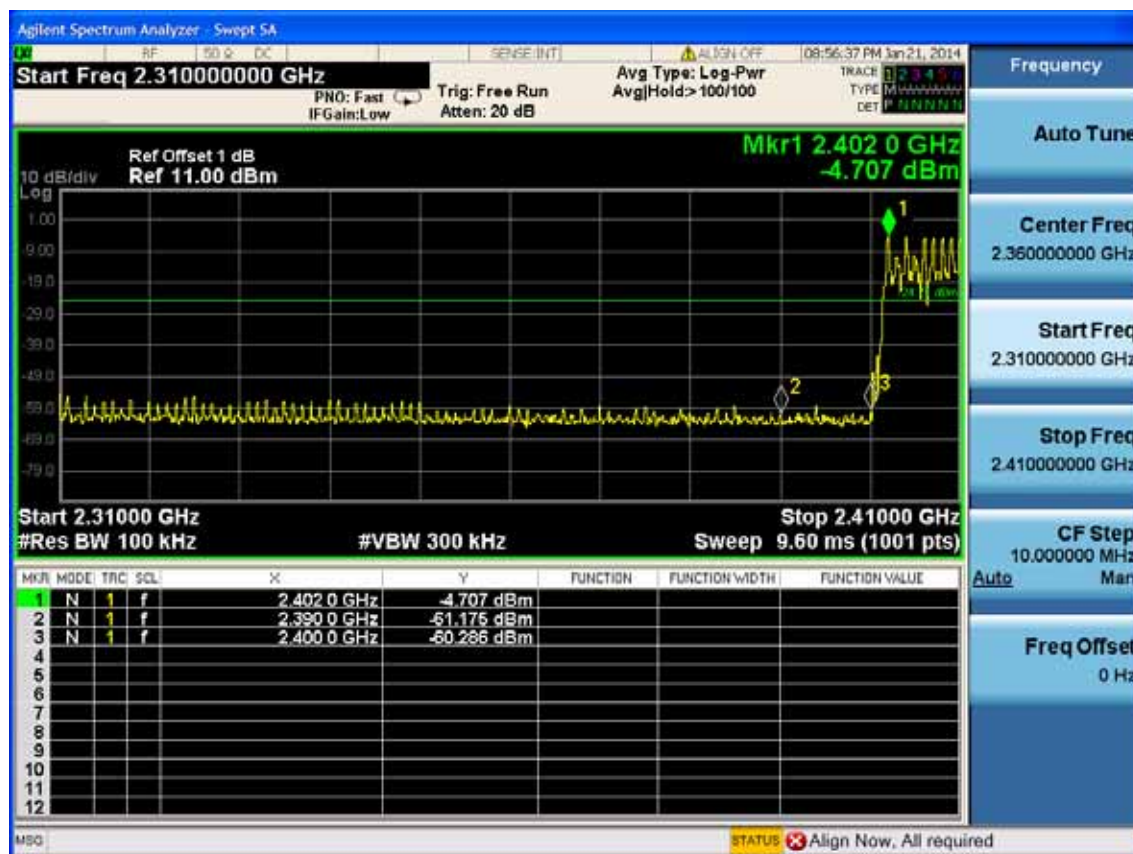
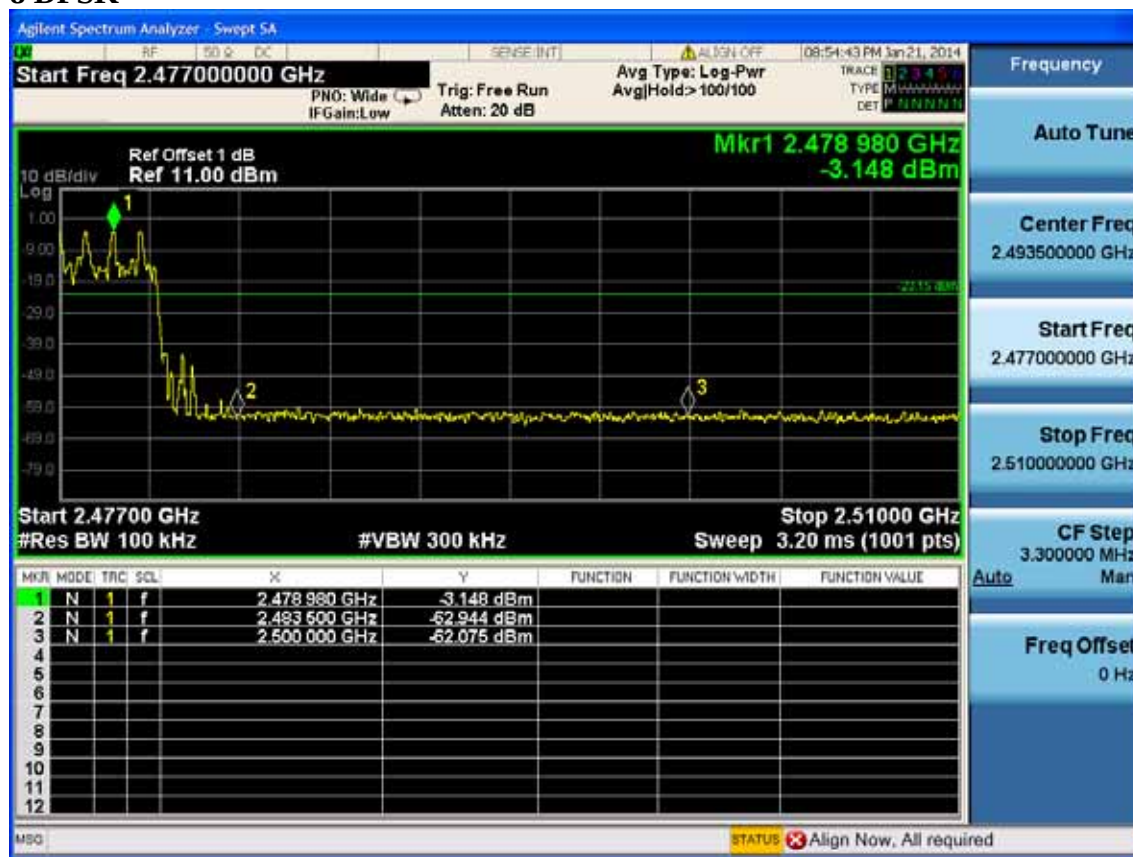




Hopping on GFSK



8 DPSK



6. CARRIER FREQUENCY SEPARATION TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year

6.2. Limit

Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.3. Test Results.

EUT: KITCHEN BLUETOOTH CD WITH FM RADIO		
M/N: IKBC384S		
Test date: 2014-1-21	Pressure: 101.4±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 20.5±0.6°C

Test Mode	Channel separation	Conclusion
8-DPSK	1.0MHz	PASS
GFSK	1.0MHz	PASS



7. 20 DB BANDWIDTH TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year

7.2. Limit

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.

7.3. Test Results

EUT: KITCHEN BLUETOOTH CD WITH FM RADIO		
M/N: IKBC384S		
Test date: 2014-1-21	Pressure: 101.4±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 20.5±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	20dB bandwidth (KHz)	Limit (KHz)
GFSK	2402	1123	N/A
	2441	1052	N/A
	2480	1057	N/A
8-DPSK	2402	1057	N/A
	2441	1033	N/A
	2480	1025	N/A
Conclusion : PASS			

GFSK

Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



8-DPSK

Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



8. NUMBER OF HOPPING FREQUENCY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year

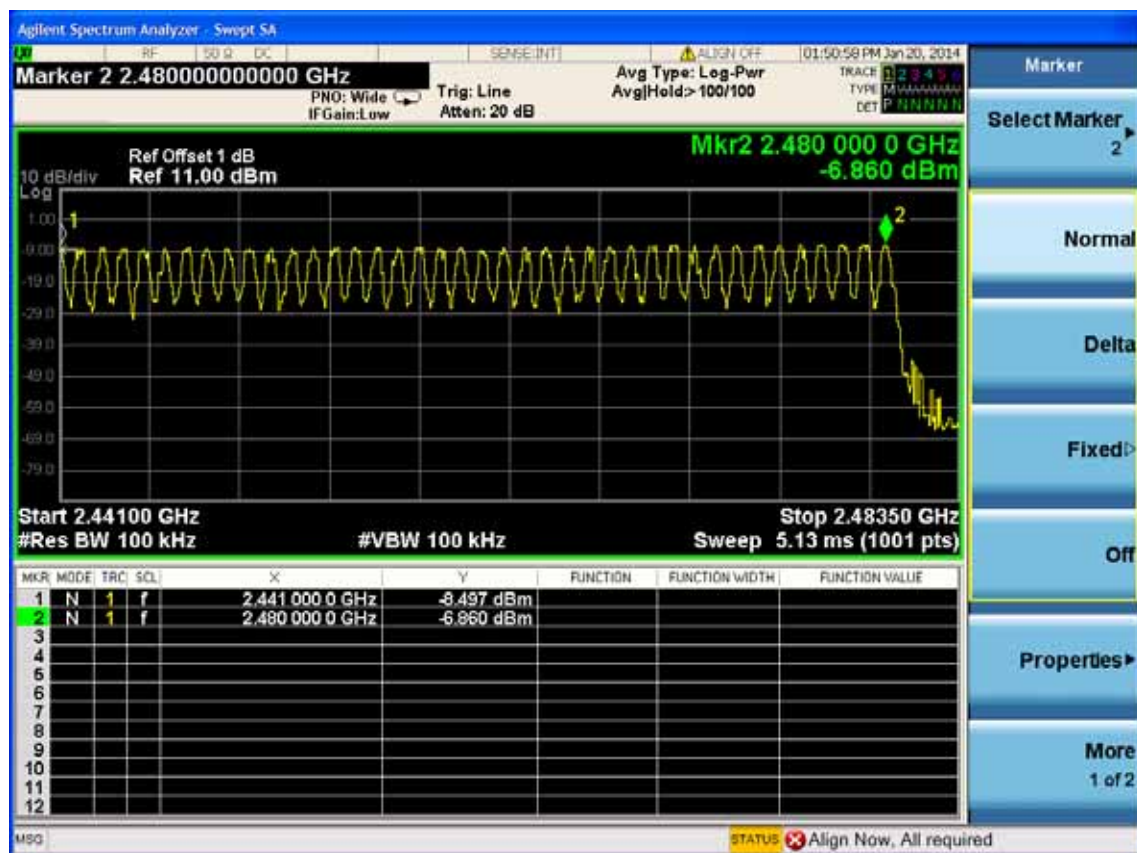
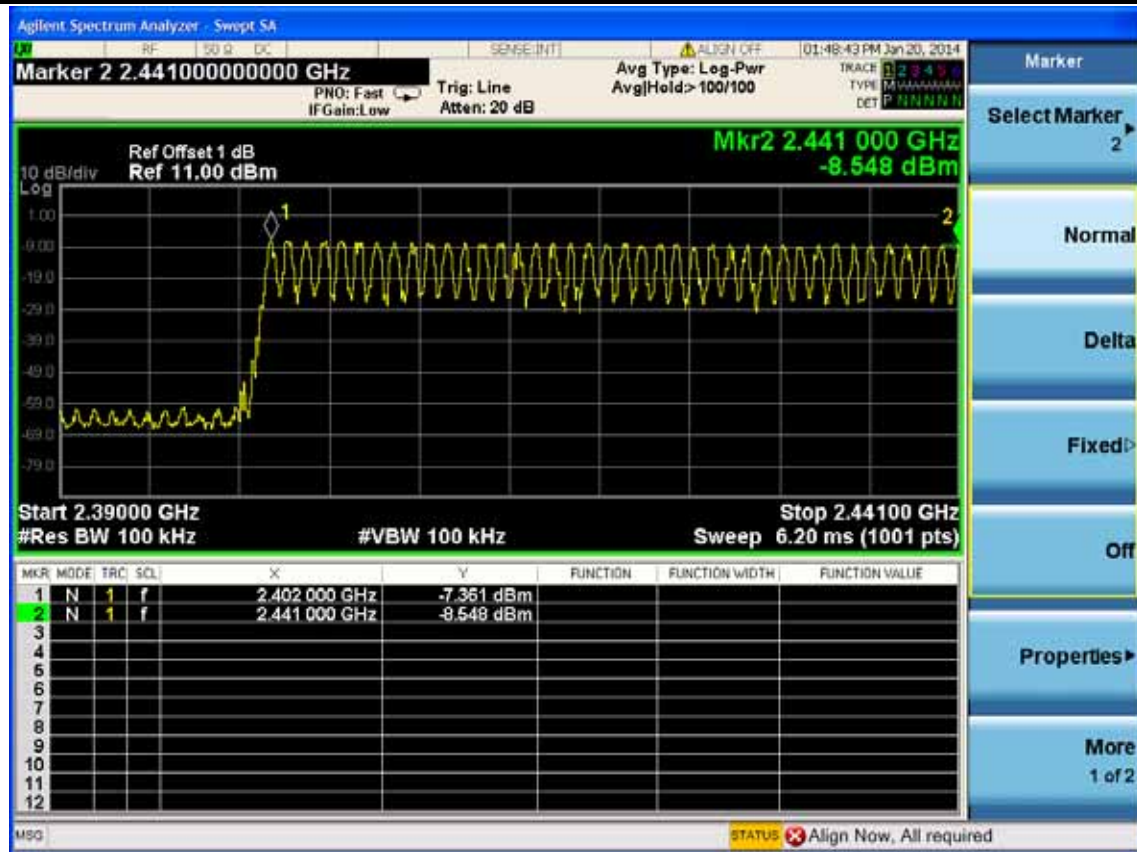
8.2. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

8.3. Test Results

EUT: KITCHEN BLUETOOTH CD WITH FM RADIO		
M/N: IKBC384S		
Test date: 2014-1-21	Pressure: 101.4±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 20.5±0.6℃

Test Mode	Number of channel	Limit	Conclusion
8-DPSK	79	≥15	PASS
GFSK	79	≥15	PASS



9. DWELL TIME

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year

9.2. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

9.3. Test Results

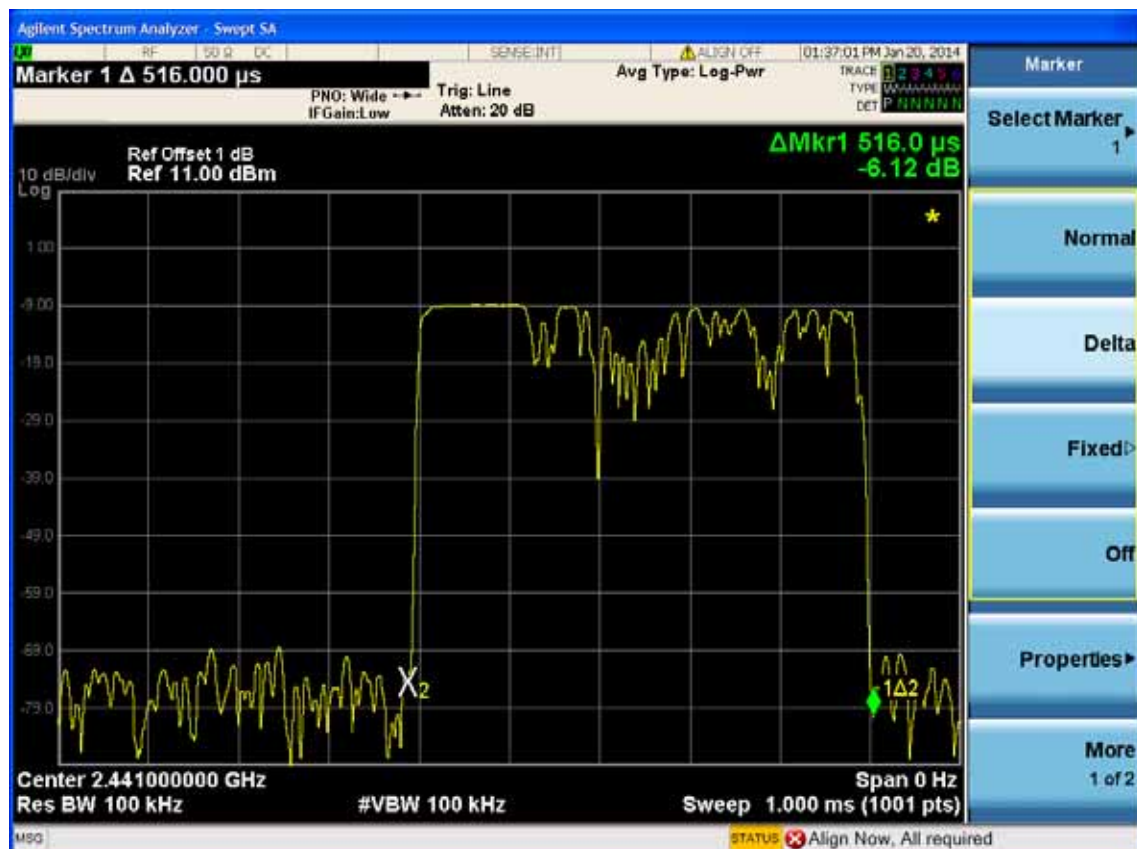
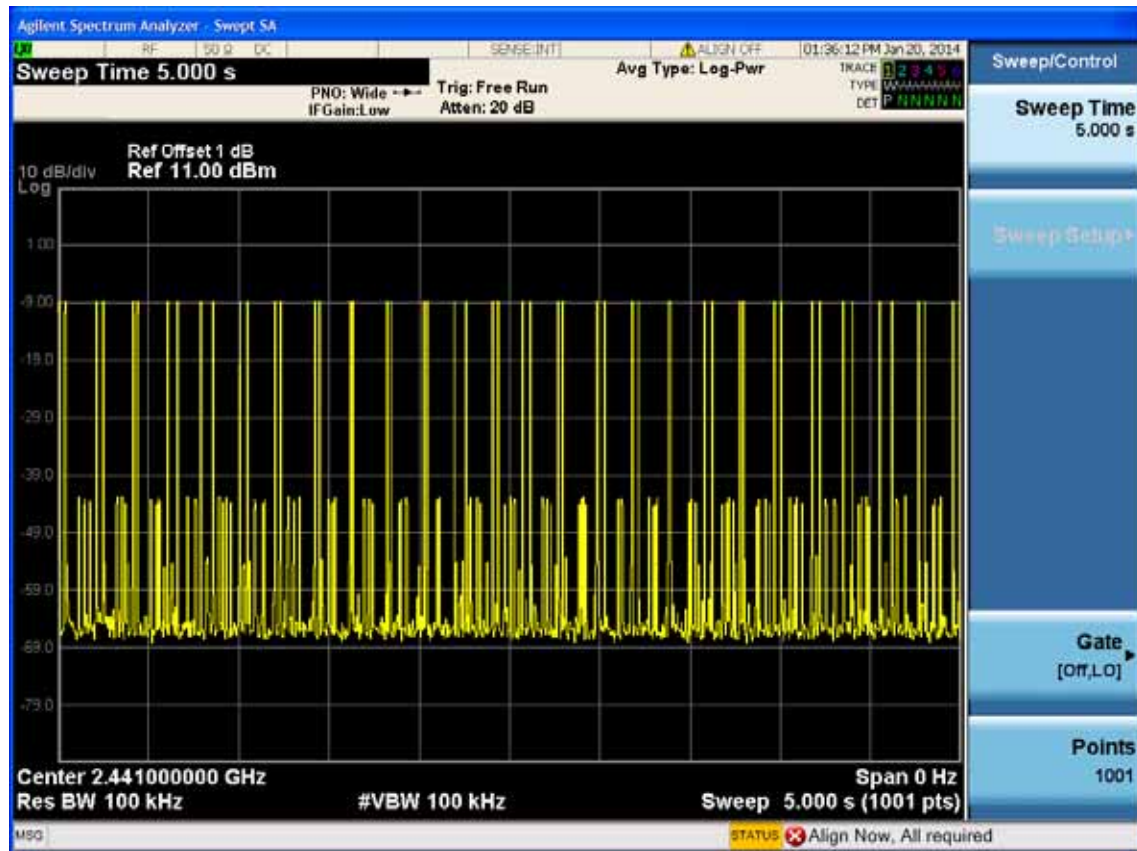
EUT: KITCHEN BLUETOOTH CD WITH FM RADIO		
M/N: IKBC384S		
Test date: 2014-1-21	Pressure: 101.4±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 20.5±0.6℃

Mode		dwell time	Limit	Conclusion
GFSK	DH1	50hops/5s*0.4*79channels*0.516ms=163.06ms	<400ms	PASS
	DH3	28hops/5s*0.4*79channels*1.785ms=315.87ms	<400ms	PASS
	DH5	15hops/5s*0.4*79channels*3.050ms=289.14ms	<400ms	PASS
8-DPSK	DH1	20hops/5s*0.4*79channels*0.521ms=65.85ms	<400ms	PASS
	DH3	14hops/5s*0.4*79channels*1.785ms=157.94ms	<400ms	PASS
	DH5	7hops/5s*0.4*79channels*3.080ms=136.26ms	<400ms	PASS

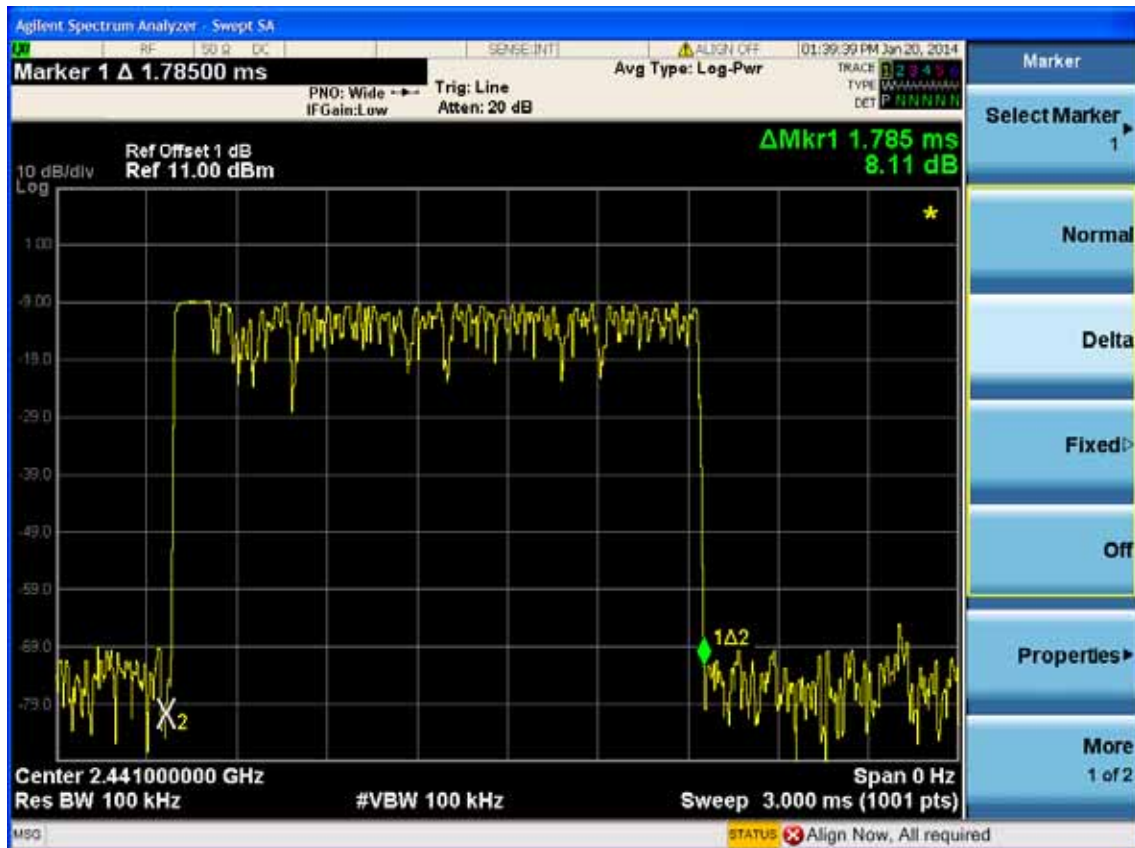
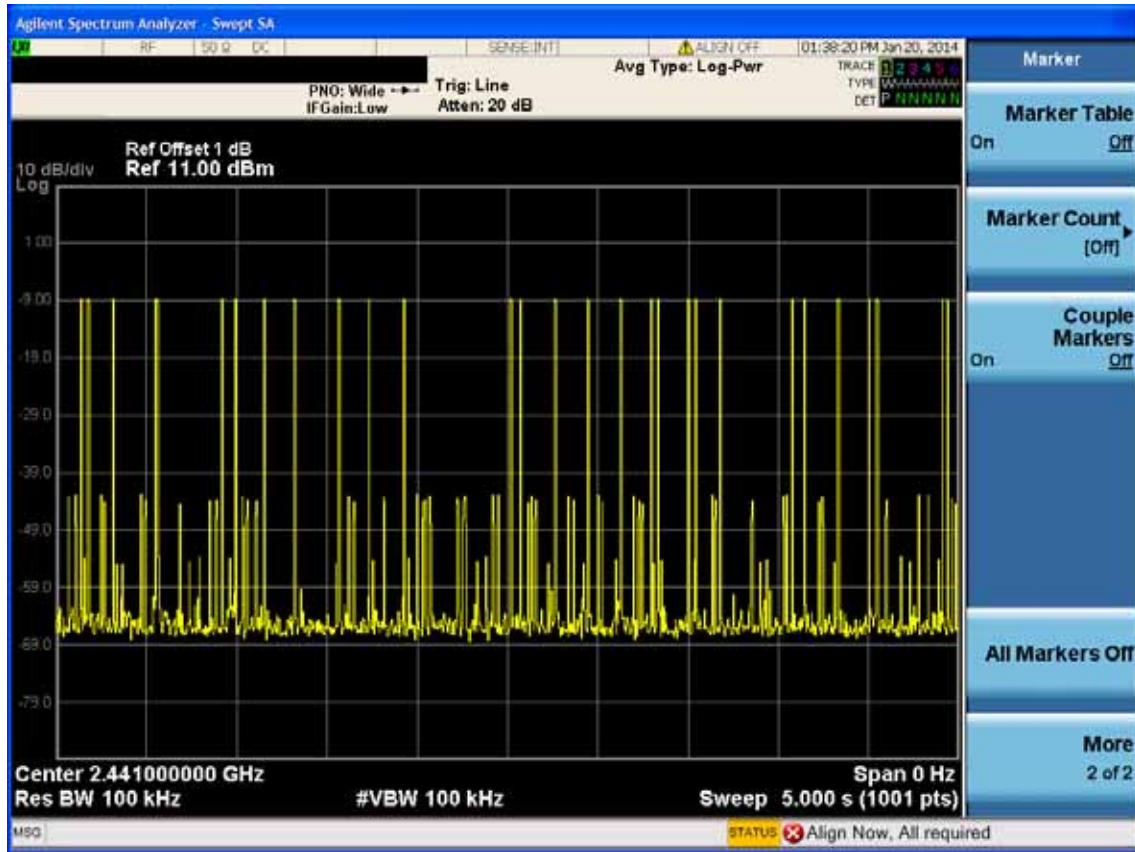
Note: All the lower levels were signal from receiver's, and should not be considered in here.

Test Mode: GFSK

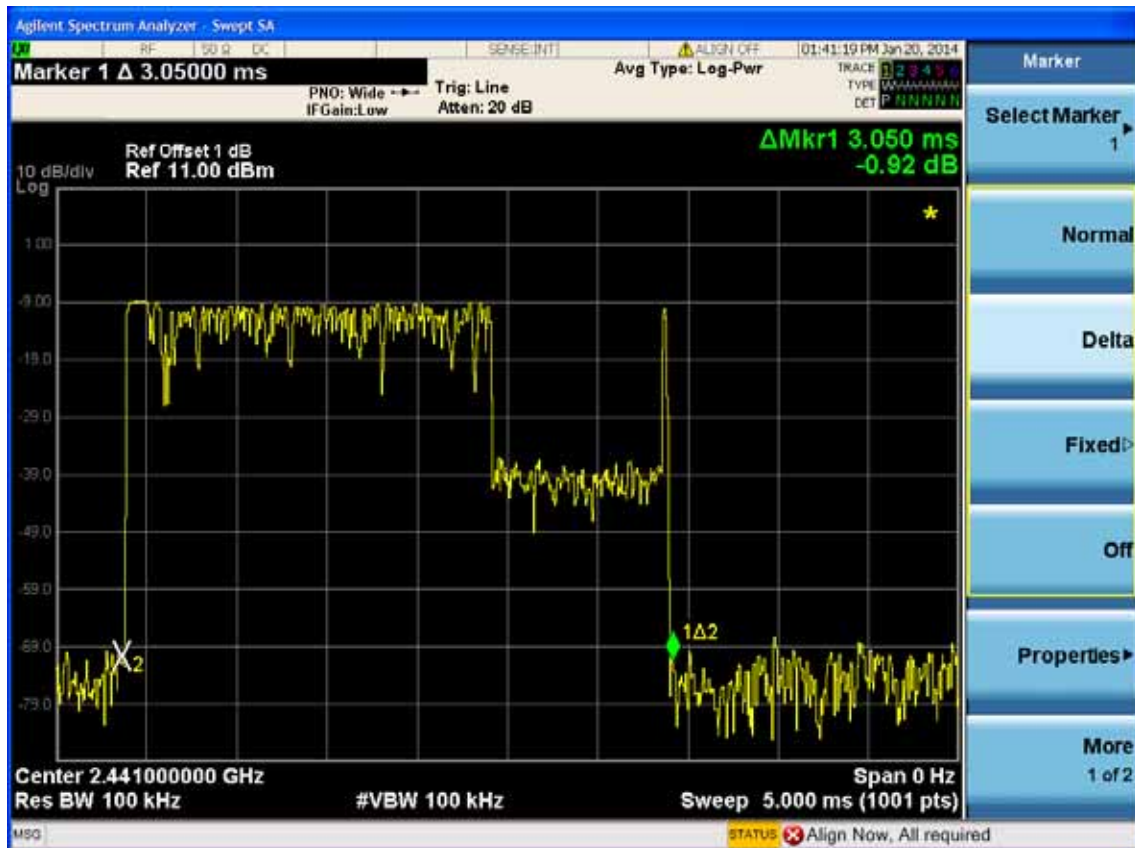
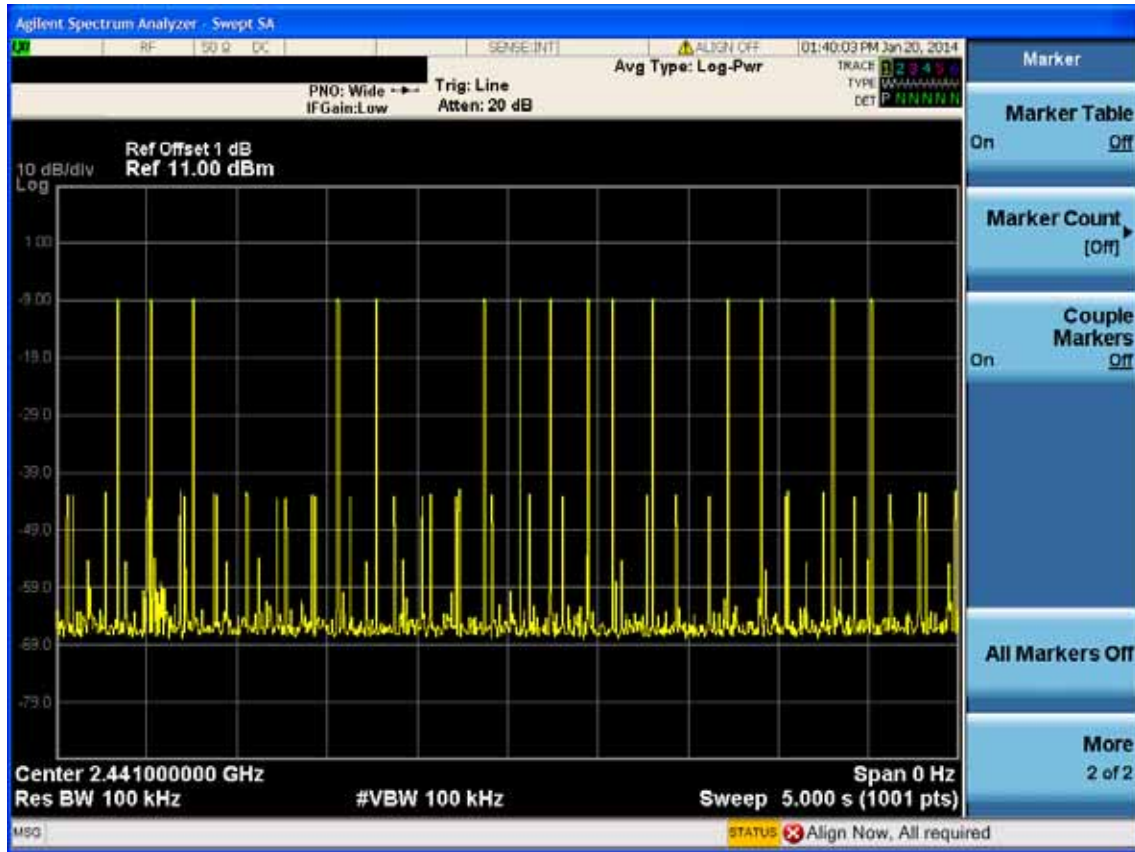
DH 1



DH 3

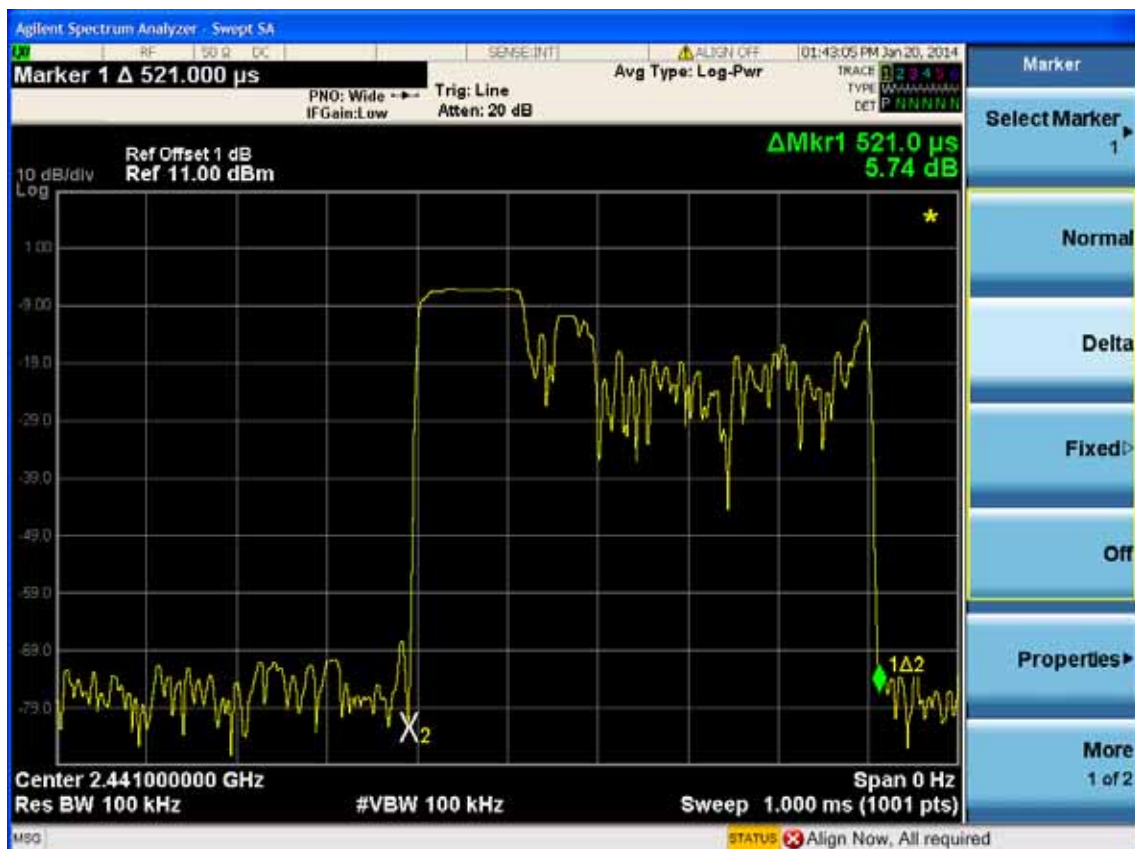
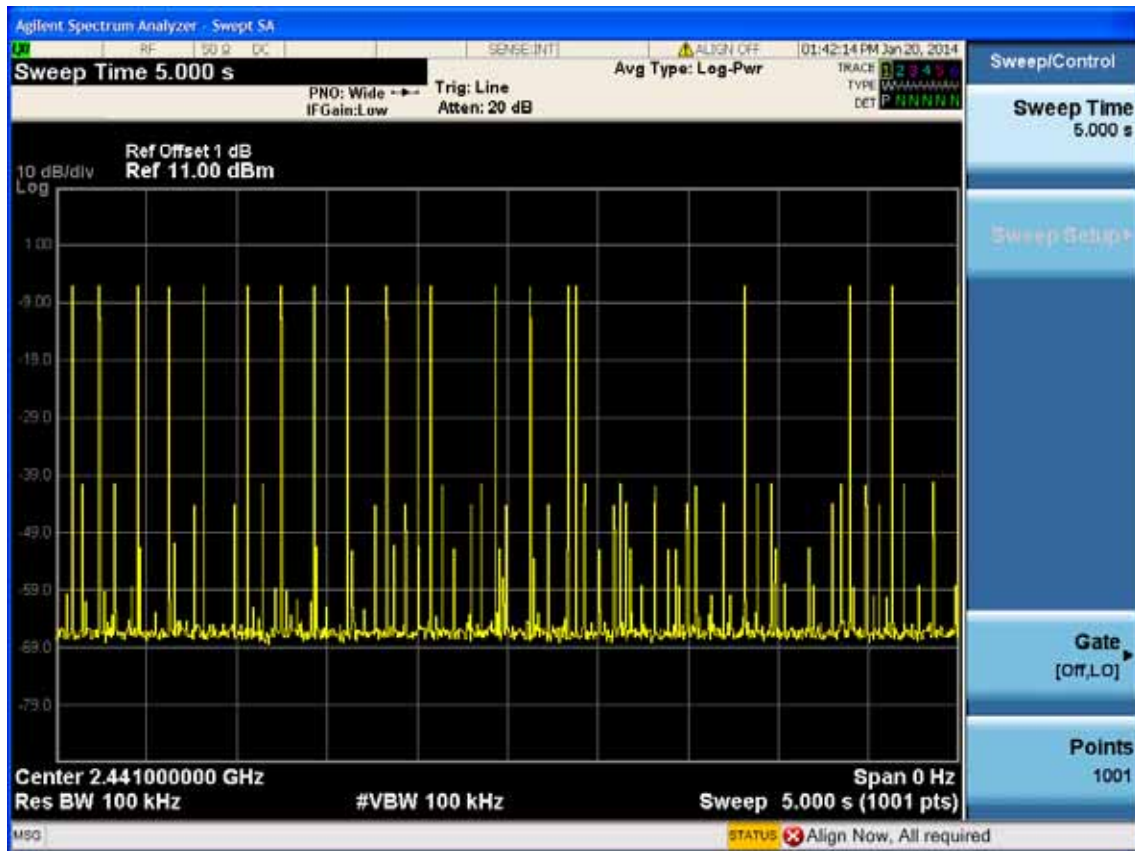


DH 5

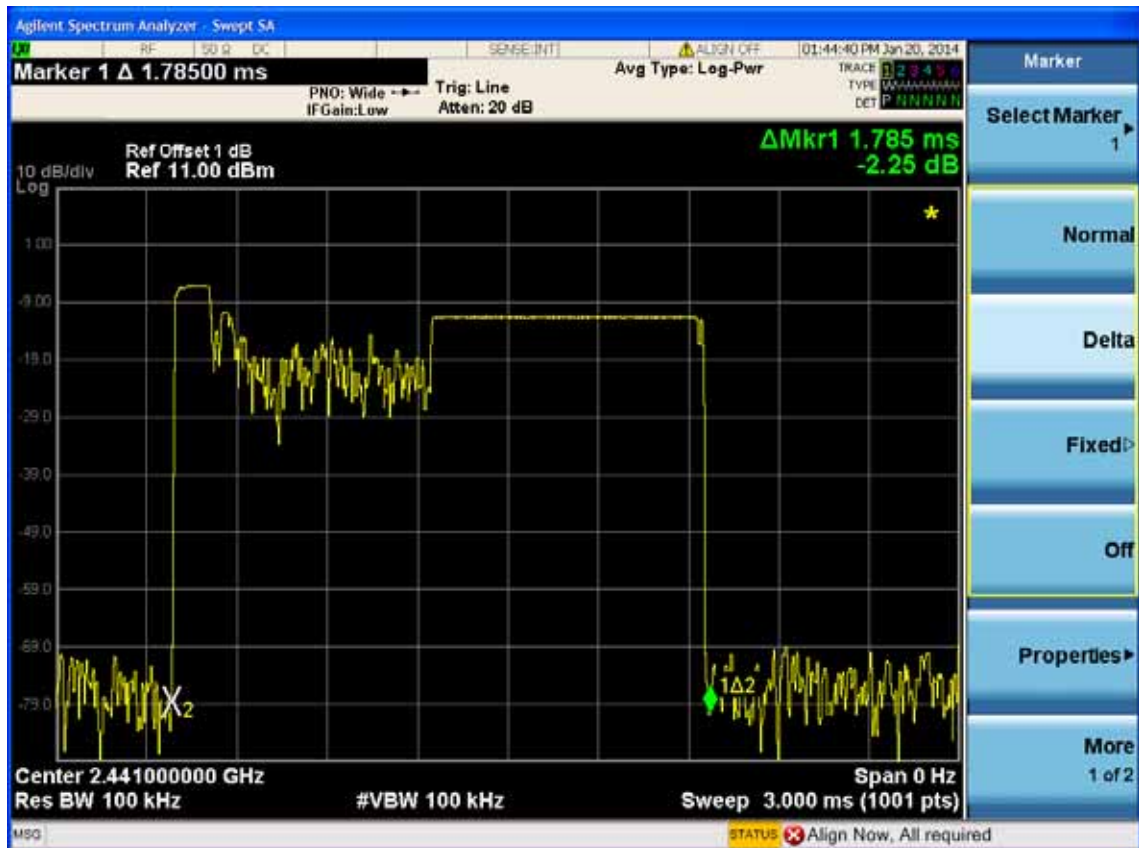
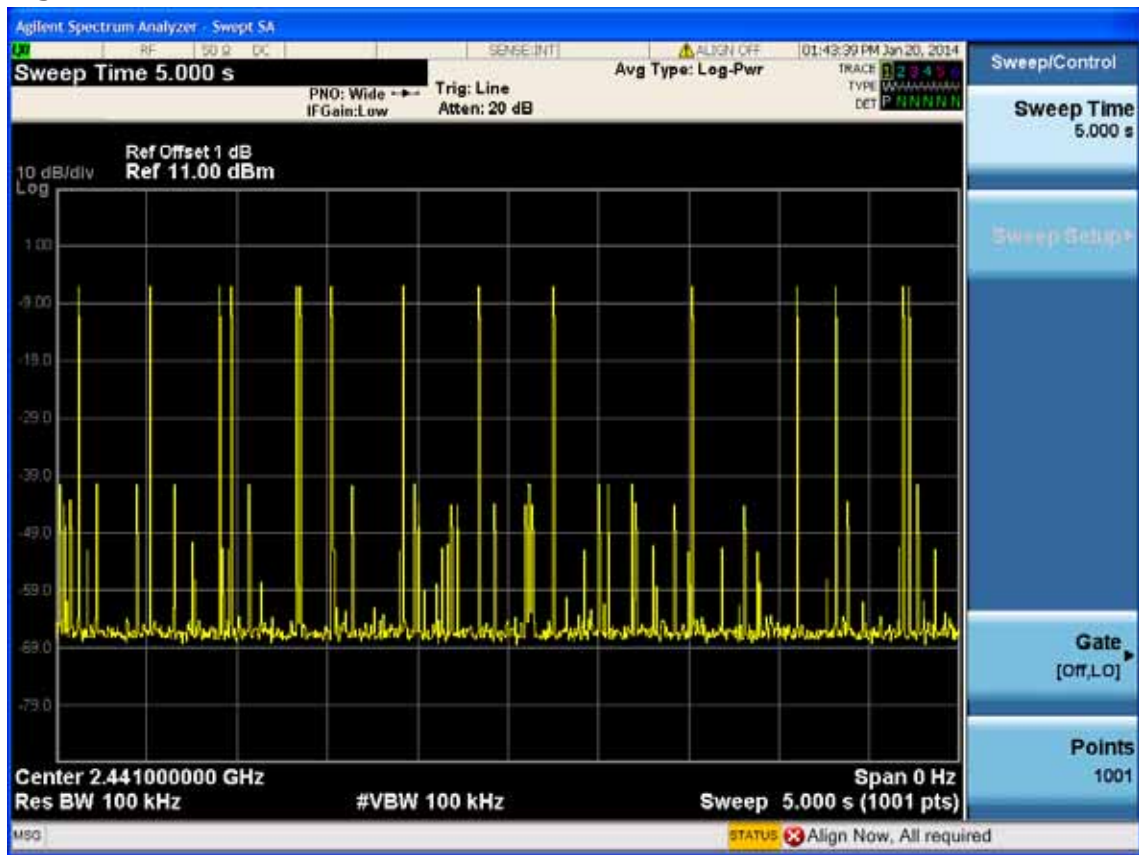


Test Mode: 8-DPSK

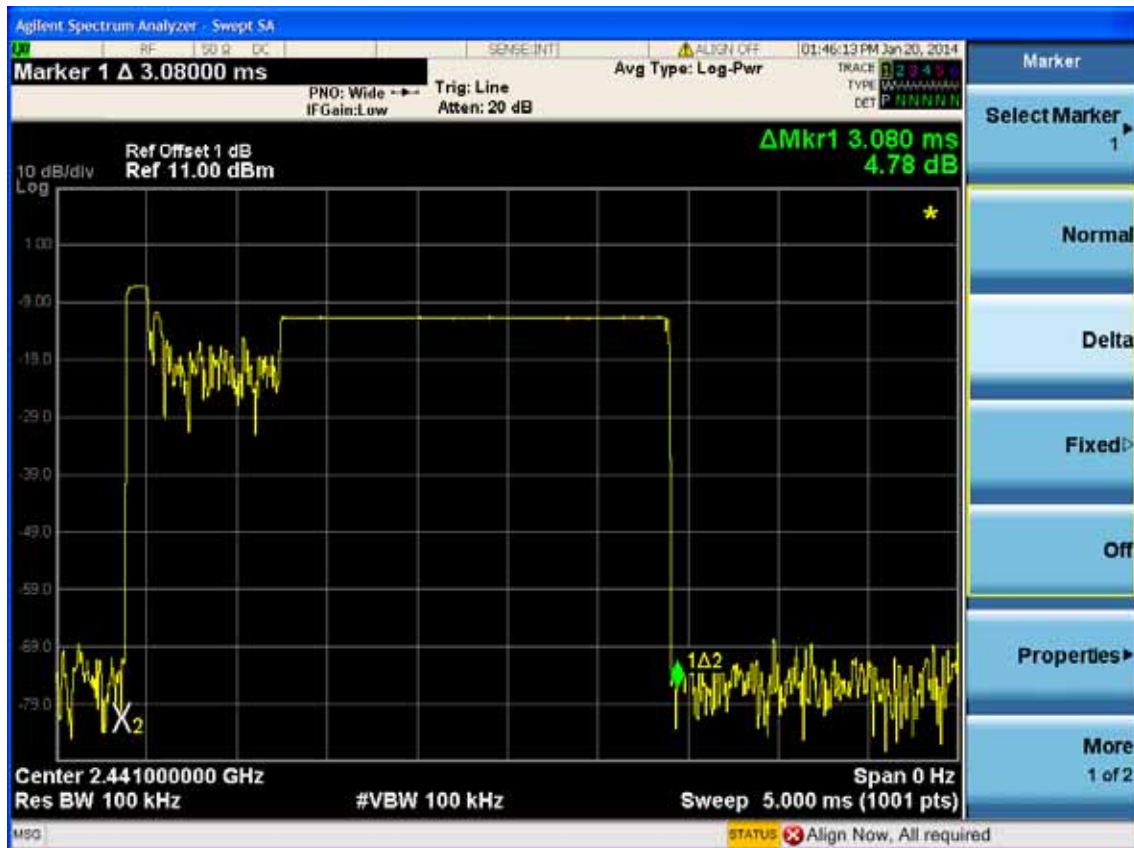
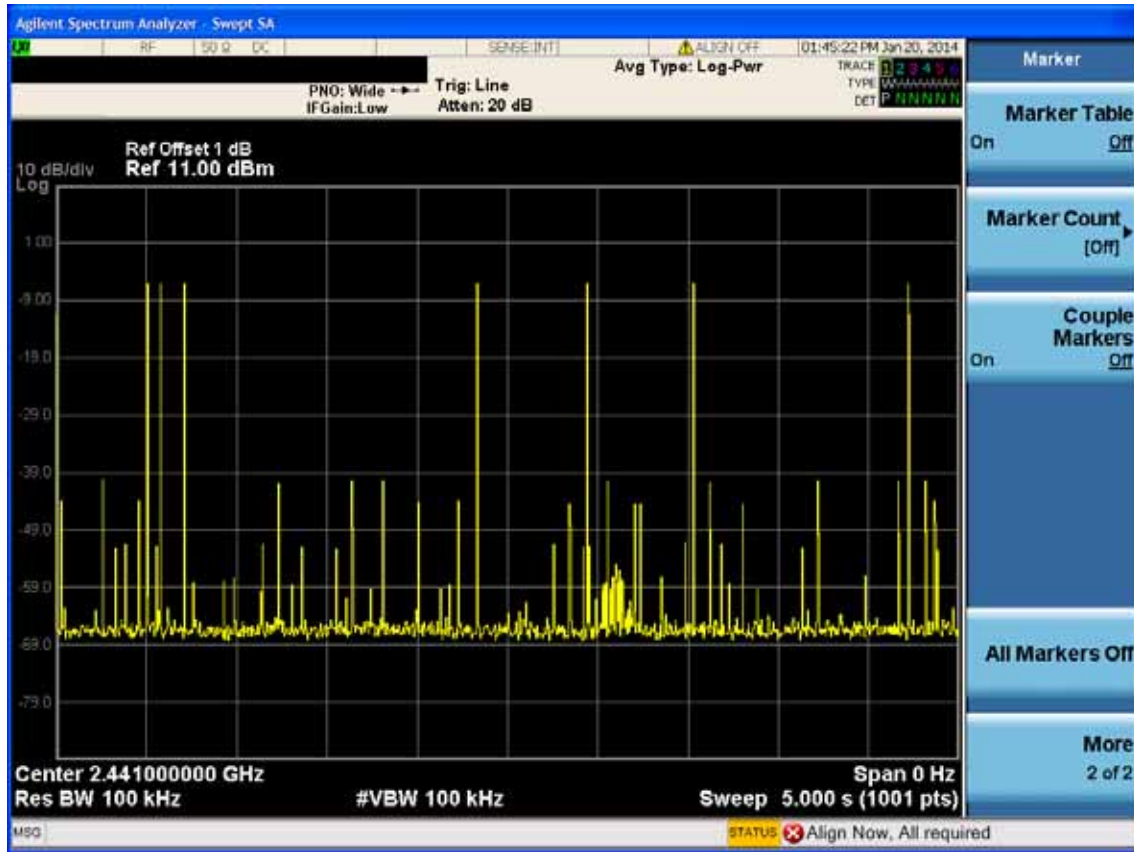
DH 1



DH 3



DH 5



10. MAXIMUM PEAK OUTPUT POWER TEST

10.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1 Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	1 Year

10.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power Directly.

10.4. Test Results

EUT: KITCHEN BLUETOOTH CD WITH FM RADIO			
M/N: IKBC384S			
Test date: 2014-1-21		Pressure: 101.4±1.0kpa	Humidity: 51.7±1.0%
Tested by: Leo-Li		Test site: RF site	Temperature: 20.2±1.0 °C
Cable loss: 1.5 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	-3.528	30
	2441	-4.551	30
	2480	-2.838	30
8-DPSK	2402	-3.516	30
	2441	-4.595	30
	2480	-2.847	30
Conclusion: PASS			

11.BAND EDGE COMPLIANCE TEST

11.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

11.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

11.3.Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

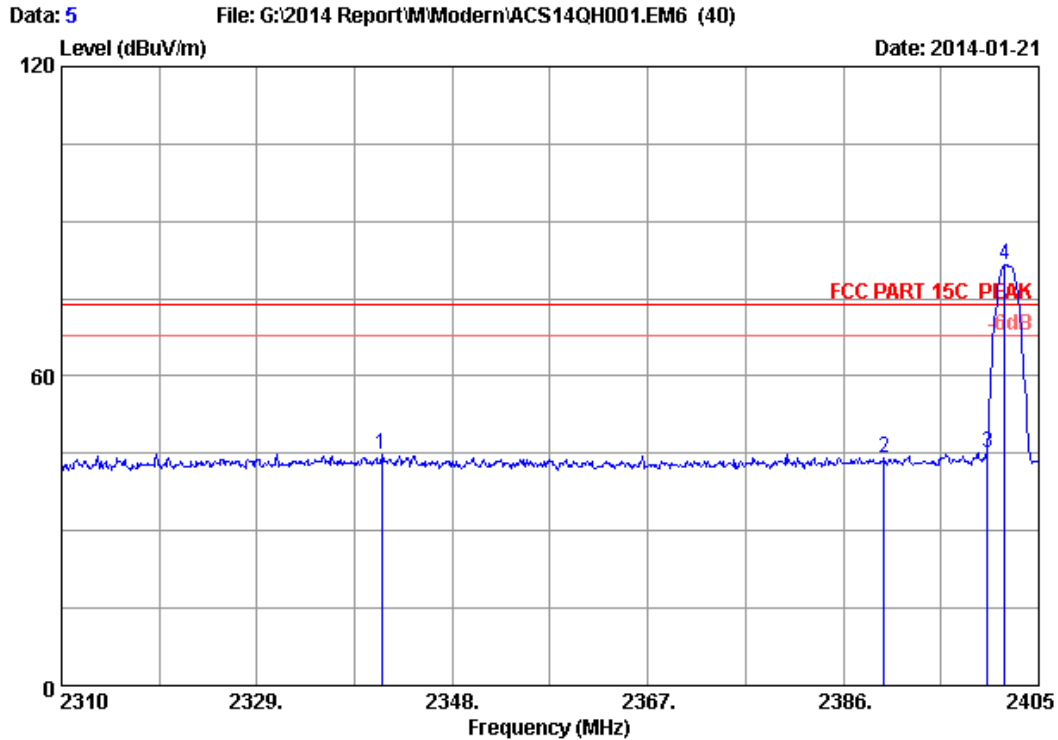
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) Average: RBW=1MHz, VBW=10Hz, Sweep=Auto

11.4.Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

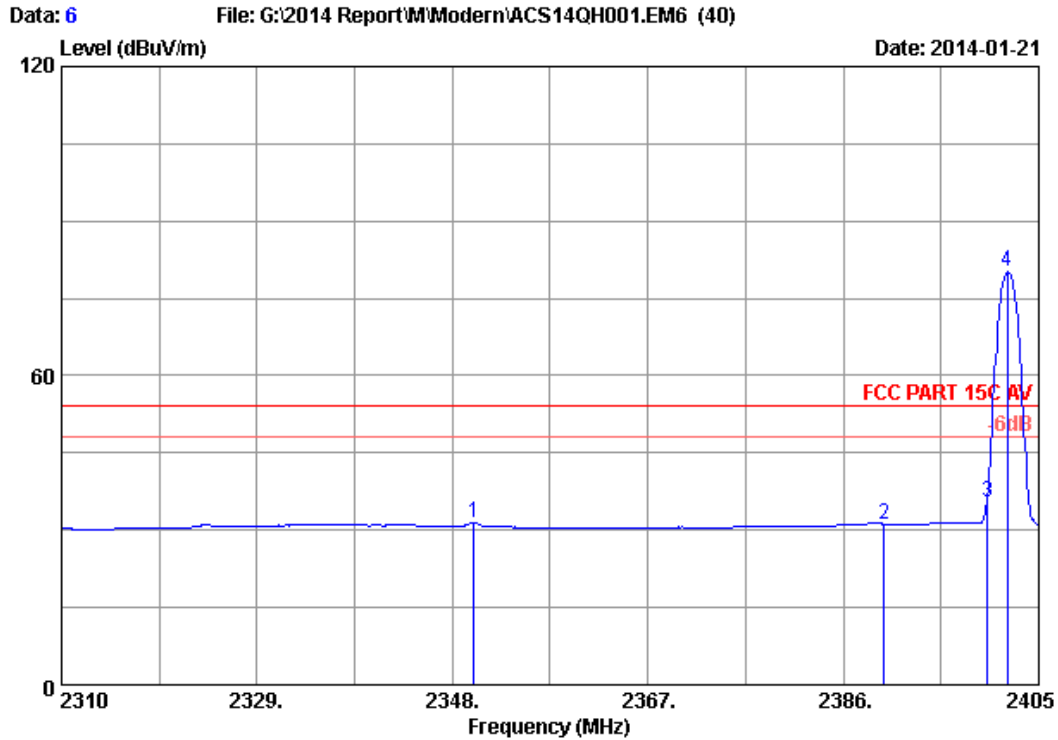


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

	Freq.	Ant.	Cable	Amp.		Emission			
	(MHz)	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2341.160	28.05	5.71	35.70	46.76	44.82	74.00	29.18	Peak
2	2390.000	28.16	5.78	35.70	45.84	44.08	74.00	29.92	Peak
3	2400.000	28.18	5.80	35.70	46.71	44.99	74.00	29.01	Peak
4	2401.675	28.18	5.80	35.70	83.18	81.46	74.00	-7.46	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

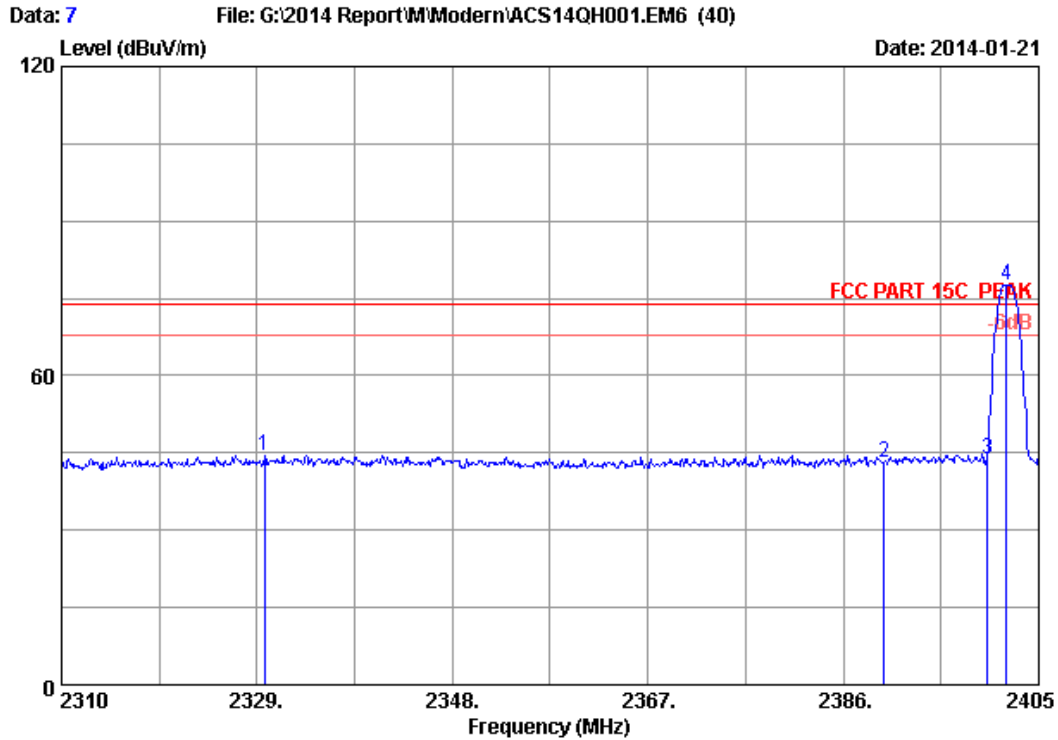


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.090	28.07	5.72	35.70	33.36	31.45	54.00	22.55	Average
2	2390.000	28.16	5.78	35.70	32.97	31.21	54.00	22.79	Average
3	2400.000	28.18	5.80	35.70	37.03	35.31	54.00	18.69	Average
4	2401.960	28.18	5.80	35.70	81.79	80.07	54.00	-26.07	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

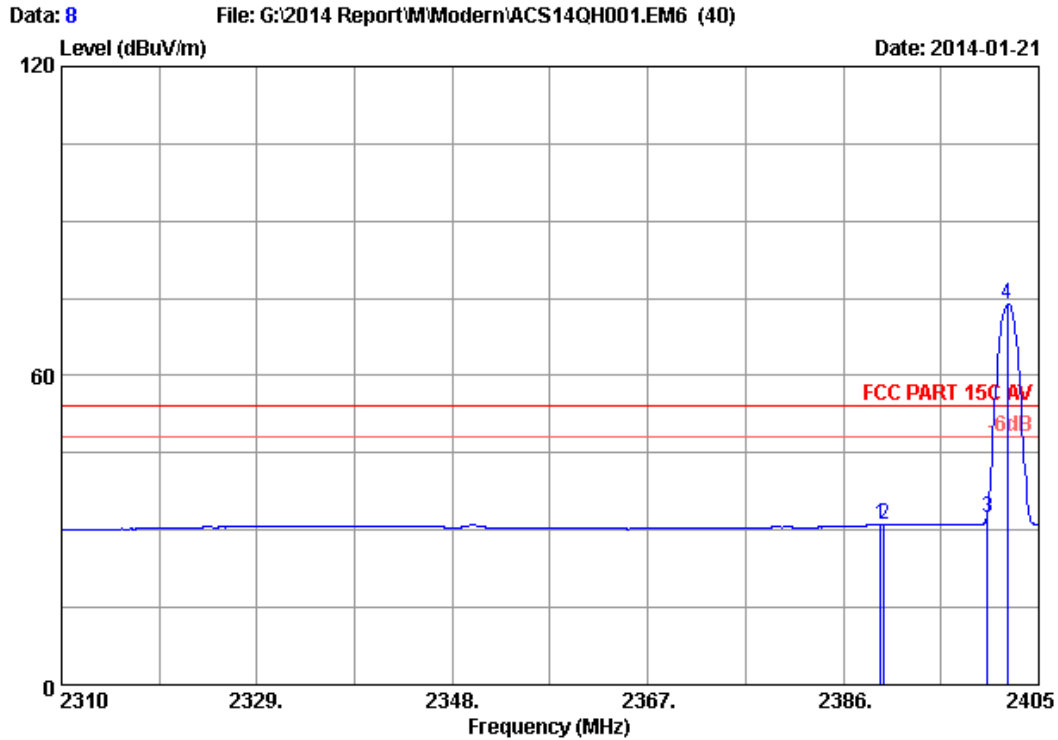


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2329.760	28.03	5.69	35.70	46.59	44.61	74.00	29.39	Peak
2	2390.000	28.16	5.78	35.70	44.80	43.04	74.00	30.96	Peak
3	2400.000	28.18	5.80	35.70	45.59	43.87	74.00	30.13	Peak
4	2401.865	28.18	5.80	35.70	79.42	77.70	74.00	-3.70	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

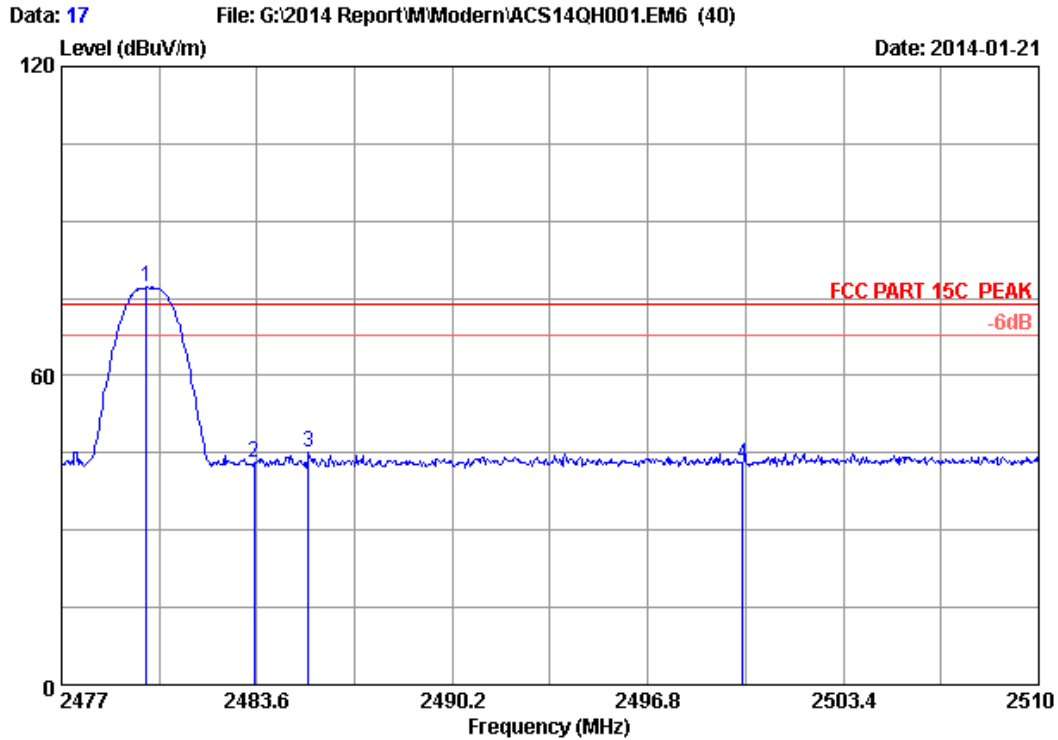


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.610	28.16	5.78	35.70	32.84	31.08	54.00	22.92	Average
2	2390.000	28.16	5.78	35.70	32.82	31.06	54.00	22.94	Average
3	2400.000	28.18	5.80	35.70	34.24	32.52	54.00	21.48	Average
4	2401.960	28.18	5.80	35.70	75.53	73.81	54.00	-19.81	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

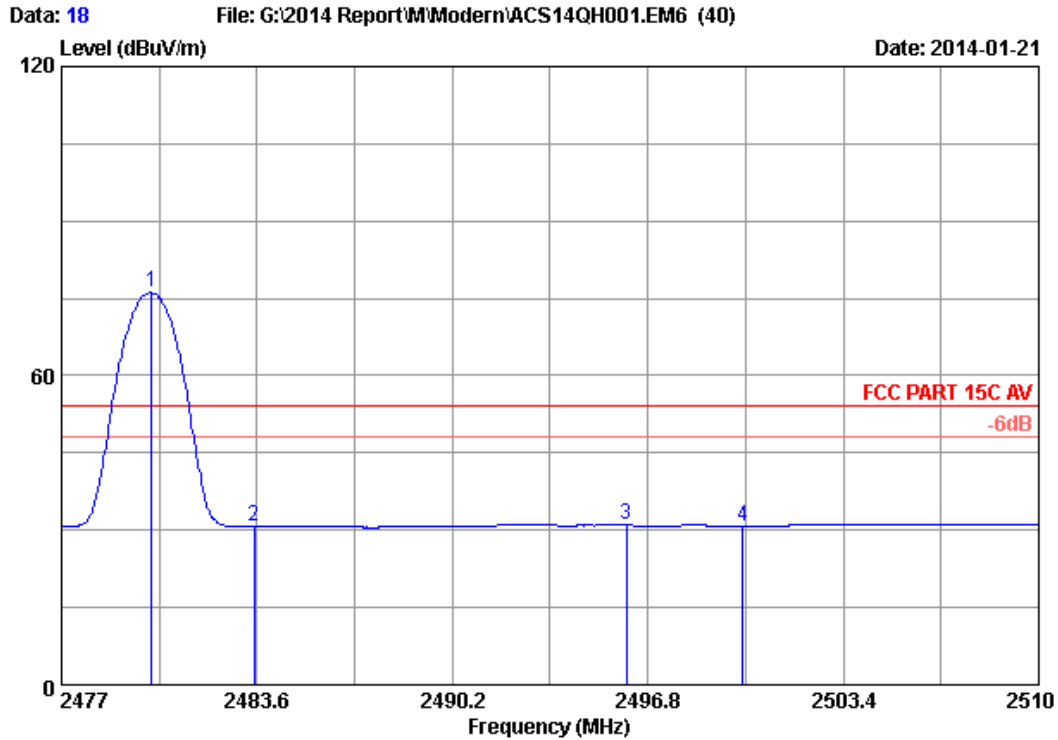


Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.871	28.36	5.91	35.70	78.54	77.11	74.00	-3.11	Peak
2	2483.500	28.36	5.92	35.70	44.53	43.11	74.00	30.89	Peak
3	2485.349	28.37	5.92	35.70	46.42	45.01	74.00	28.99	Peak
4	2500.000	28.40	5.94	35.70	44.23	42.87	74.00	31.13	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

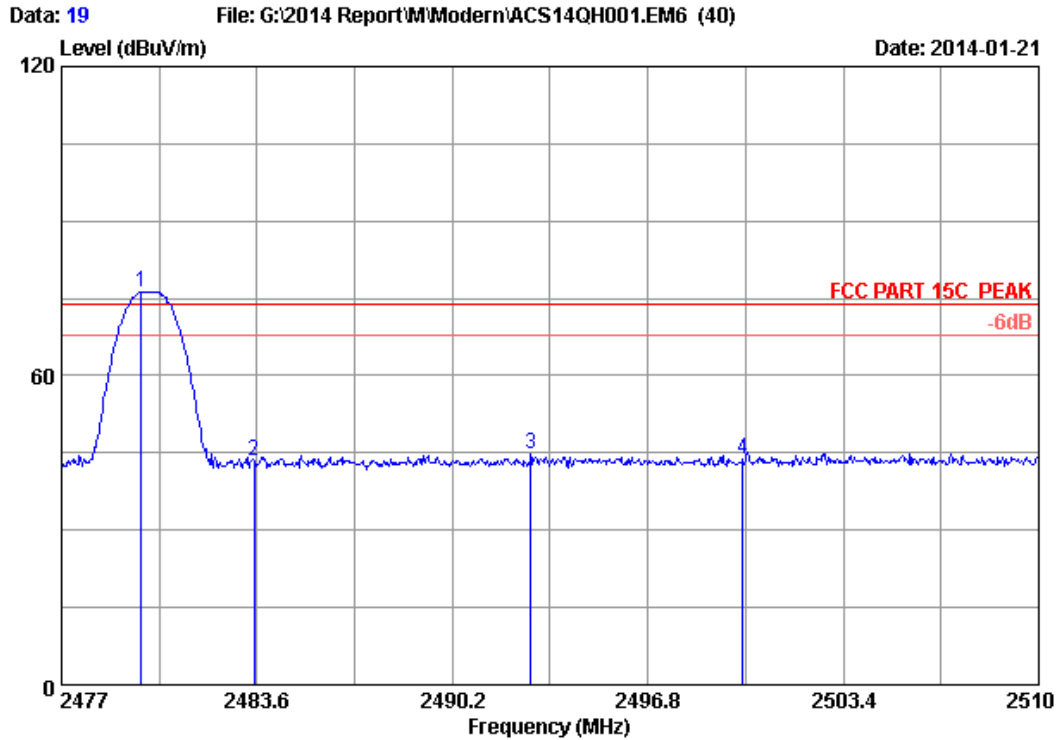


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	77.48	76.05	54.00	-22.05	Average
2	2483.500	28.36	5.92	35.70	32.07	30.65	54.00	23.35	Average
3	2496.074	28.39	5.94	35.70	32.49	31.12	54.00	22.88	Average
4	2500.000	28.40	5.94	35.70	32.19	30.83	54.00	23.17	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

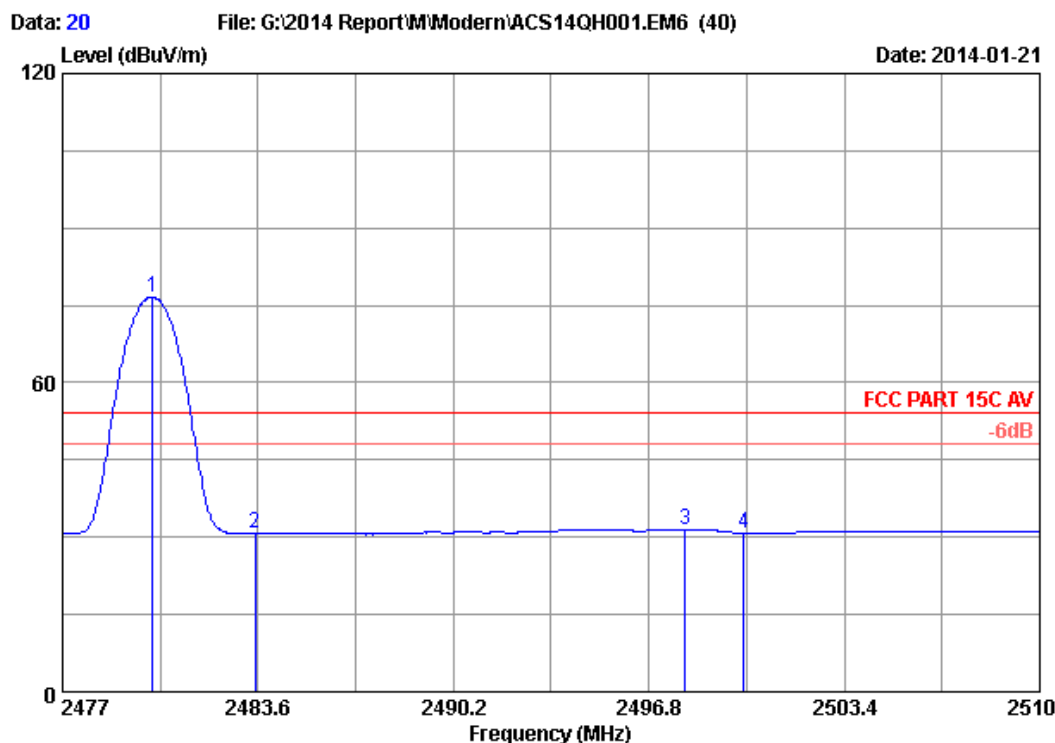


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.706	28.36	5.91	35.70	77.74	76.31	74.00	-2.31	Peak
2	2483.500	28.36	5.92	35.70	45.02	43.60	74.00	30.40	Peak
3	2492.840	28.38	5.93	35.70	46.16	44.77	74.00	29.23	Peak
4	2500.000	28.40	5.94	35.70	45.07	43.71	74.00	30.29	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

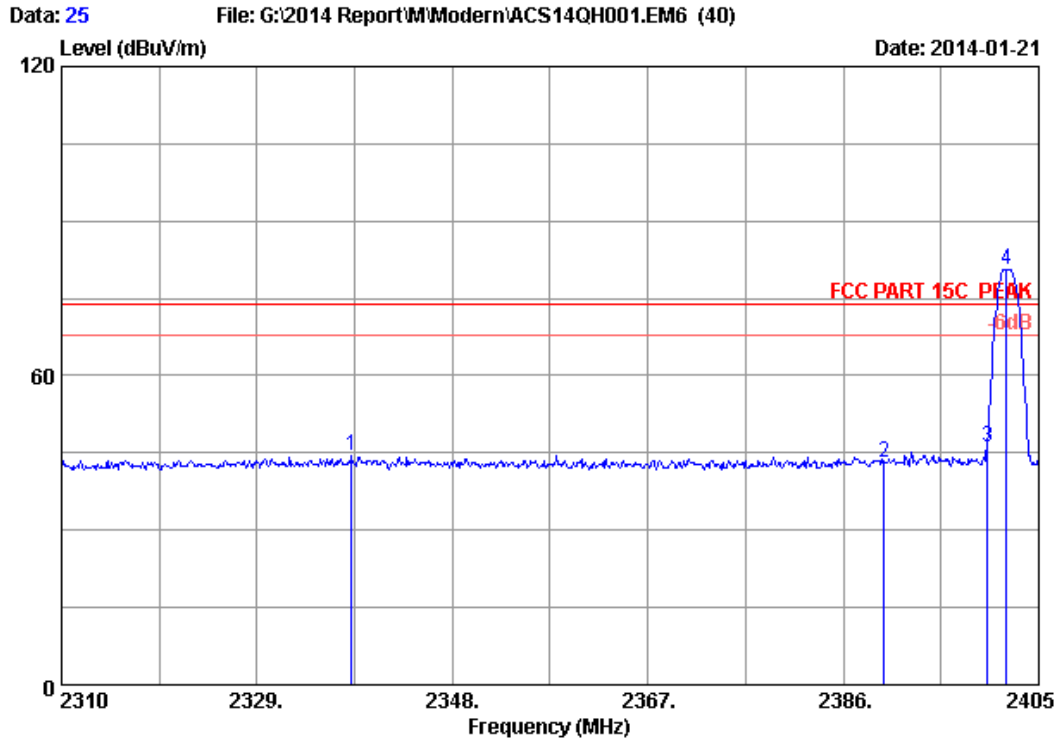


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	78.01	76.58	54.00	-22.58	Average
2	2483.500	28.36	5.92	35.70	32.10	30.68	54.00	23.32	Average
3	2498.021	28.40	5.94	35.70	32.91	31.55	54.00	22.45	Average
4	2500.000	28.40	5.94	35.70	32.18	30.82	54.00	23.18	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

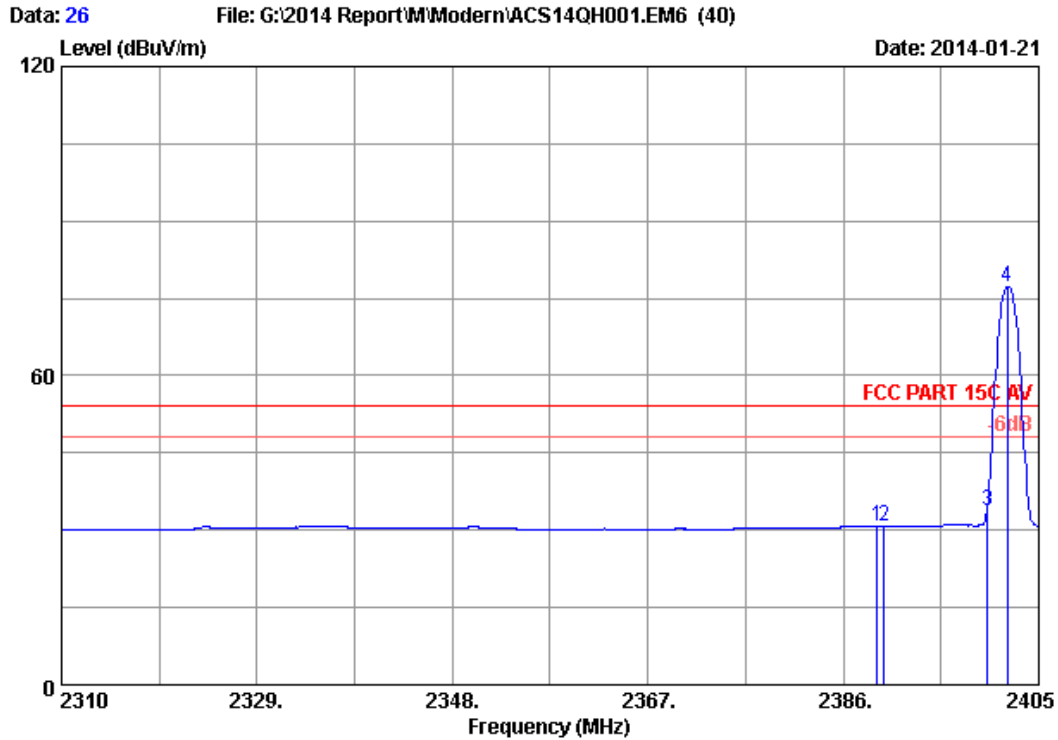


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2338.215	28.04	5.71	35.70	46.55	44.60	74.00	29.40	Peak
2	2390.000	28.16	5.78	35.70	45.04	43.28	74.00	30.72	Peak
3	2400.000	28.18	5.80	35.70	47.85	46.13	74.00	27.87	Peak
4	2401.865	28.18	5.80	35.70	82.33	80.61	74.00	-6.61	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

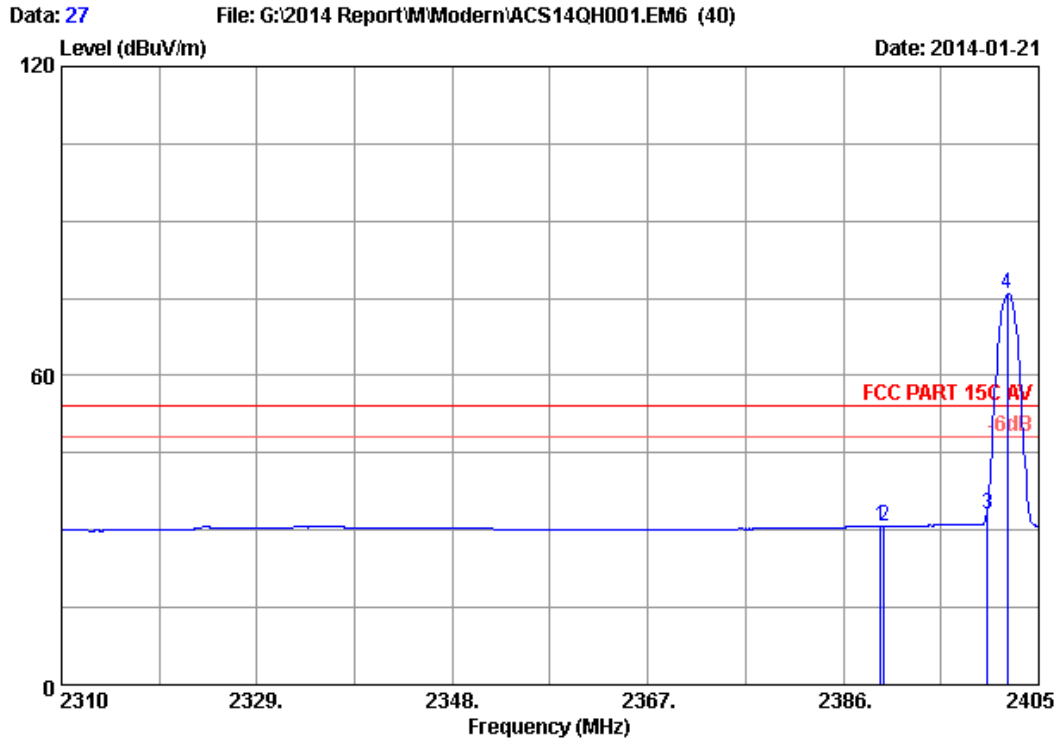


Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
Power supply : DC 5V From Adapter Input AC 120V/60Hz
Test mode : 8-DPSK 2402MHz Tx
M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.325	28.16	5.78	35.70	32.60	30.84	54.00	23.16	Average
2	2390.000	28.16	5.78	35.70	32.59	30.83	54.00	23.17	Average
3	2400.000	28.18	5.80	35.70	35.33	33.61	54.00	20.39	Average
4	2401.960	28.18	5.80	35.70	78.93	77.21	54.00	-23.21	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

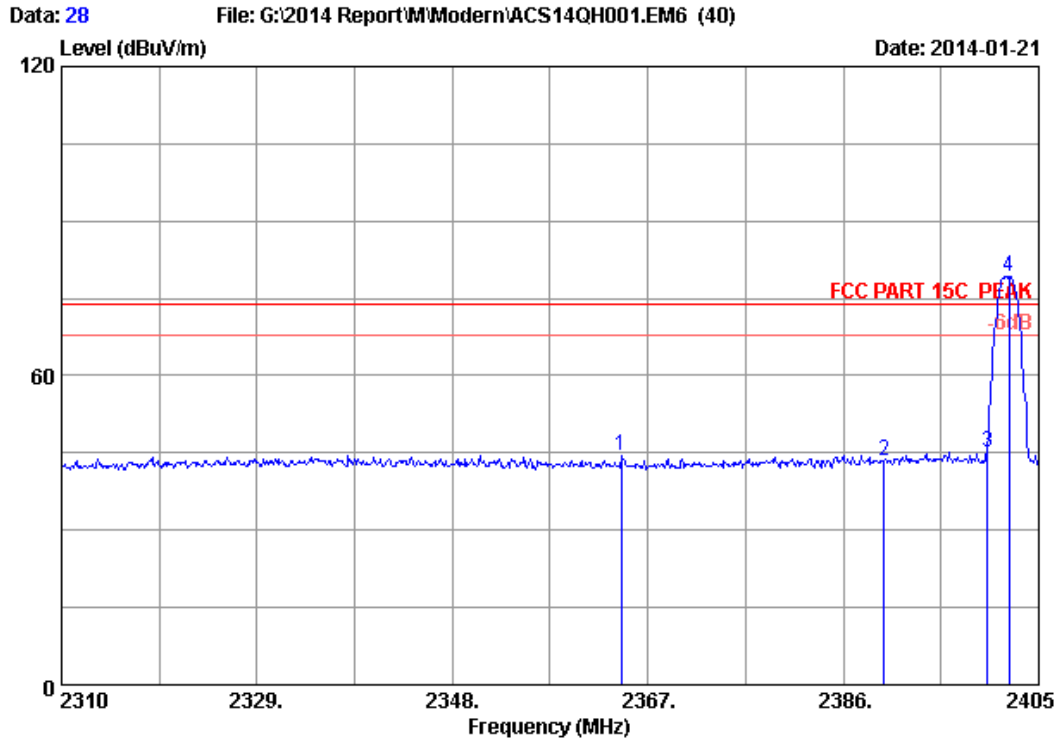


Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.610	28.16	5.78	35.70	32.64	30.88	54.00	23.12	Average
2	2390.000	28.16	5.78	35.70	32.63	30.87	54.00	23.13	Average
3	2400.000	28.18	5.80	35.70	34.84	33.12	54.00	20.88	Average
4	2401.960	28.18	5.80	35.70	77.53	75.81	54.00	-21.81	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

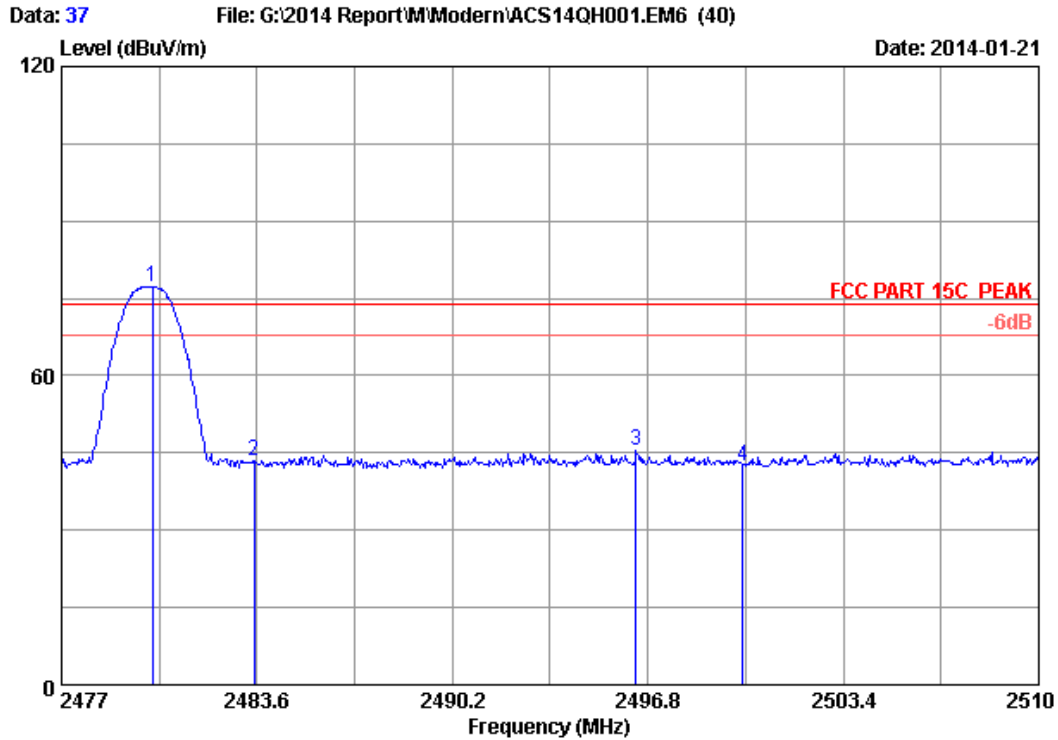


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx
 M/N : IKBC384S

	Freq.	Ant.	Cable	Amp.		Emission			
	(MHz)	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2364.435	28.10	5.75	35.70	46.27	44.42	74.00	29.58	Peak
2	2390.000	28.16	5.78	35.70	45.18	43.42	74.00	30.58	Peak
3	2400.000	28.18	5.80	35.70	46.82	45.10	74.00	28.90	Peak
4	2402.150	28.18	5.80	35.70	80.88	79.16	74.00	-5.16	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

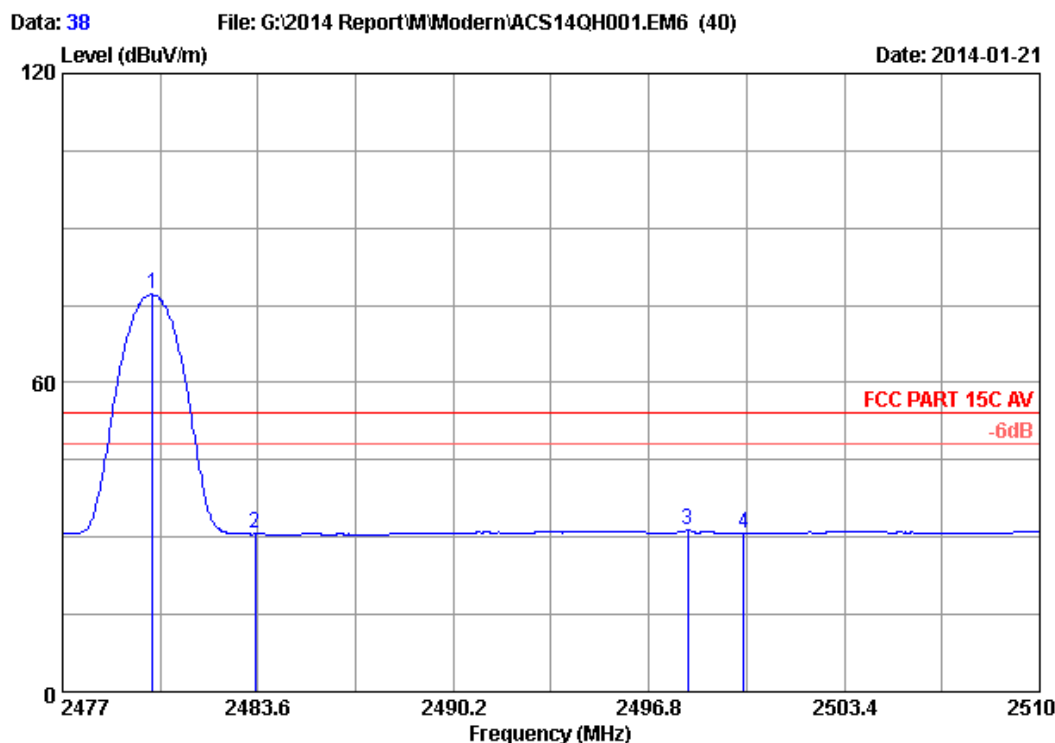


Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.069	28.36	5.91	35.70	78.66	77.23	74.00	-3.23	Peak
2	2483.500	28.36	5.92	35.70	44.86	43.44	74.00	30.56	Peak
3	2496.404	28.39	5.94	35.70	46.69	45.32	74.00	28.68	Peak
4	2500.000	28.40	5.94	35.70	43.69	42.33	74.00	31.67	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

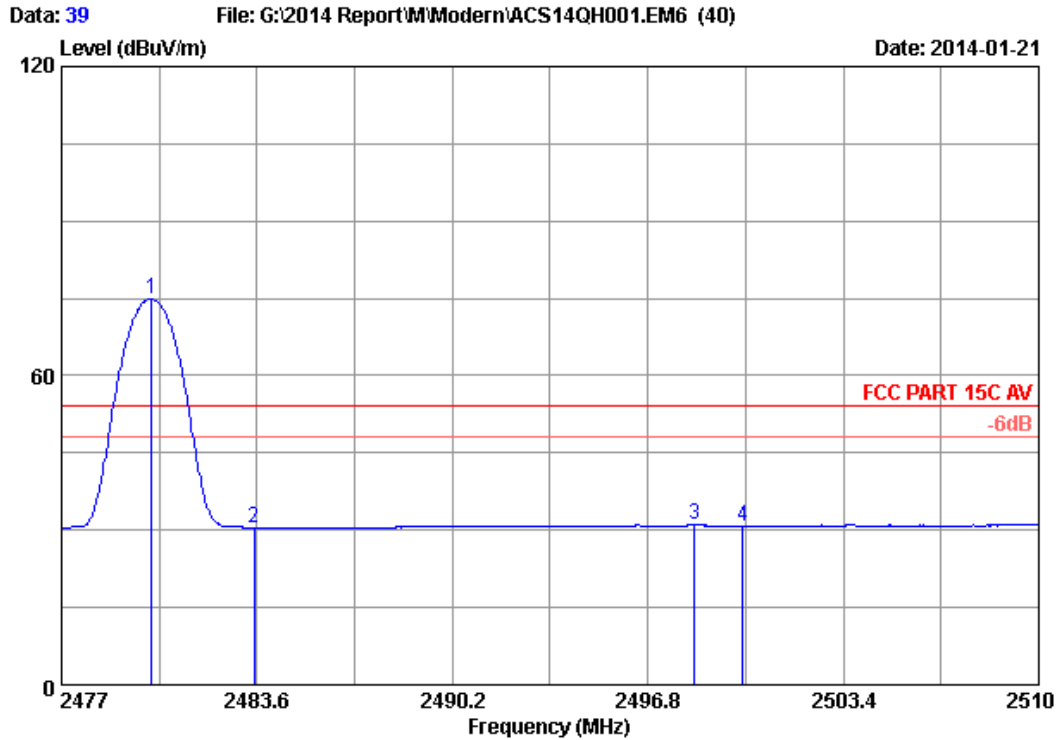


Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	78.49	77.06	54.00	-23.06	Average
2	2483.500	28.36	5.92	35.70	32.05	30.63	54.00	23.37	Average
3	2498.120	28.40	5.94	35.70	32.66	31.30	54.00	22.70	Average
4	2500.000	28.40	5.94	35.70	32.14	30.78	54.00	23.22	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

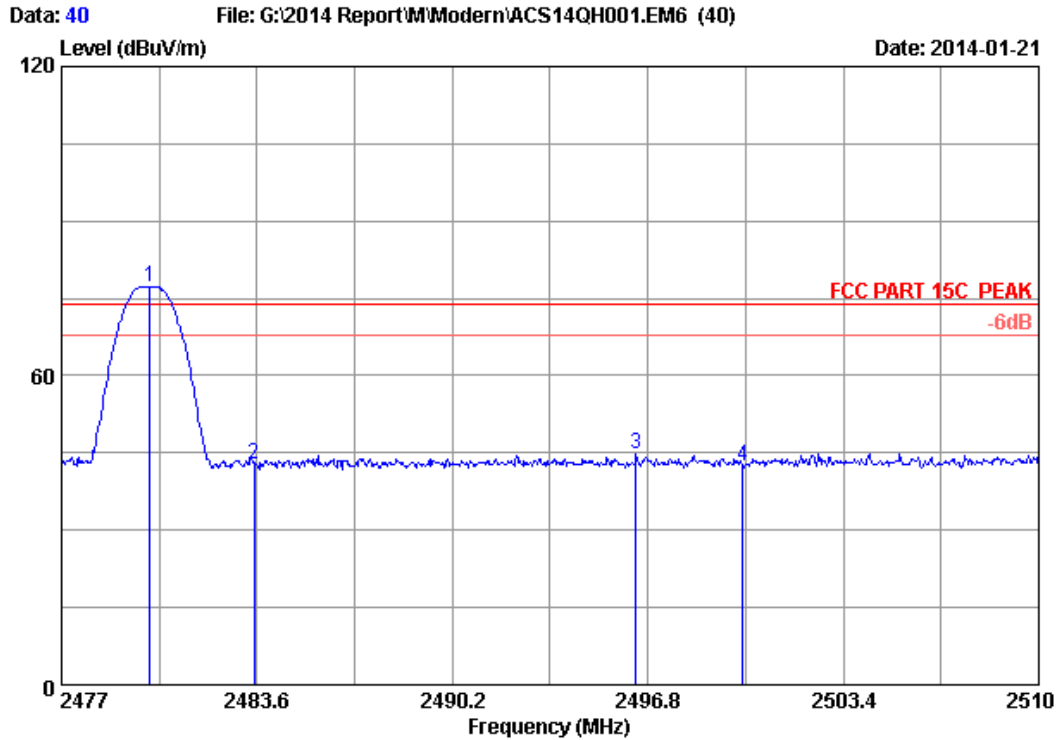


Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	76.23	74.80	54.00	-20.80	Average
2	2483.500	28.36	5.92	35.70	31.95	30.53	54.00	23.47	Average
3	2498.384	28.40	5.94	35.70	32.31	30.95	54.00	23.05	Average
4	2500.000	28.40	5.94	35.70	32.09	30.73	54.00	23.27	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : KITCHEN BLUETOOTH CD WITH FM RADIO
 Power supply : DC 5V From Adapter Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx
 M/N : IKBC384S

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.970	28.36	5.91	35.70	78.78	77.35	74.00	-3.35	Peak
2	2483.500	28.36	5.92	35.70	44.32	42.90	74.00	31.10	Peak
3	2496.404	28.39	5.94	35.70	46.02	44.65	74.00	29.35	Peak
4	2500.000	28.40	5.94	35.70	43.85	42.49	74.00	31.51	Peak

Remarks:

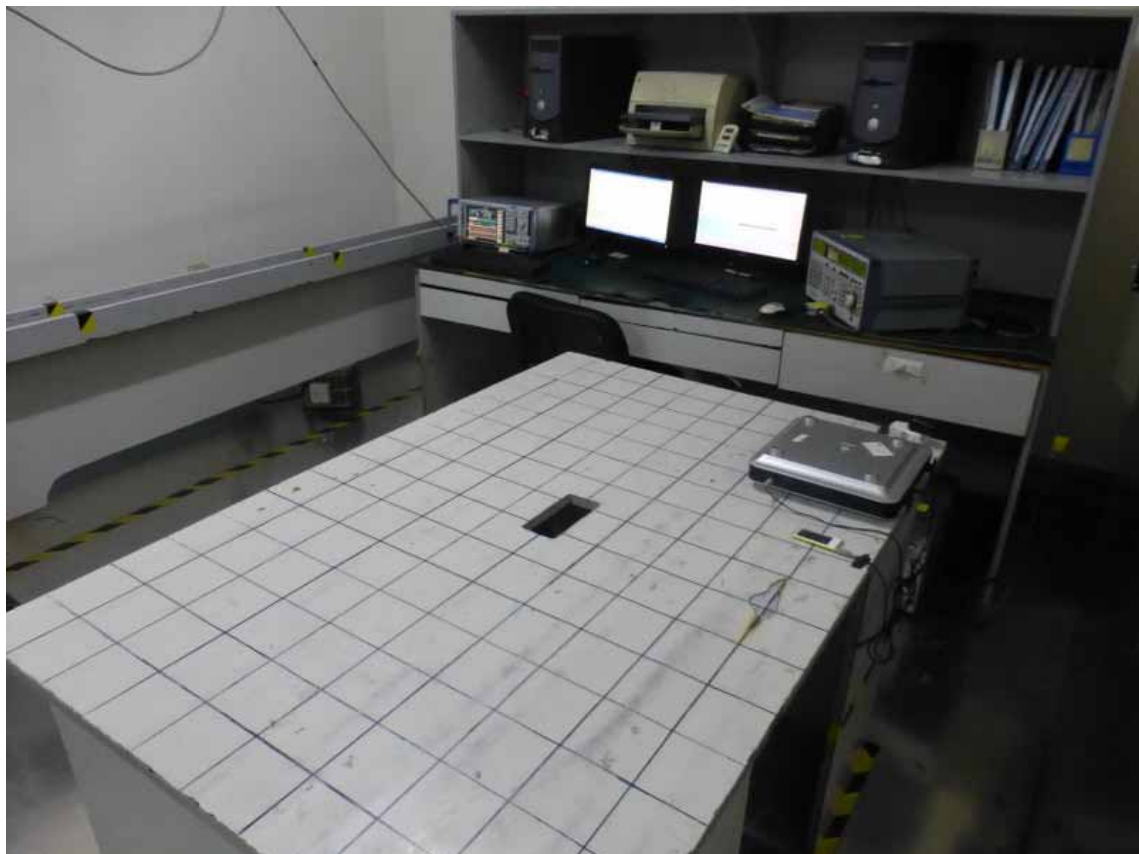
- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]

13. PHOTOGRAPH OF TEST

13.1. Photos of Power Line Conducted Emission Test

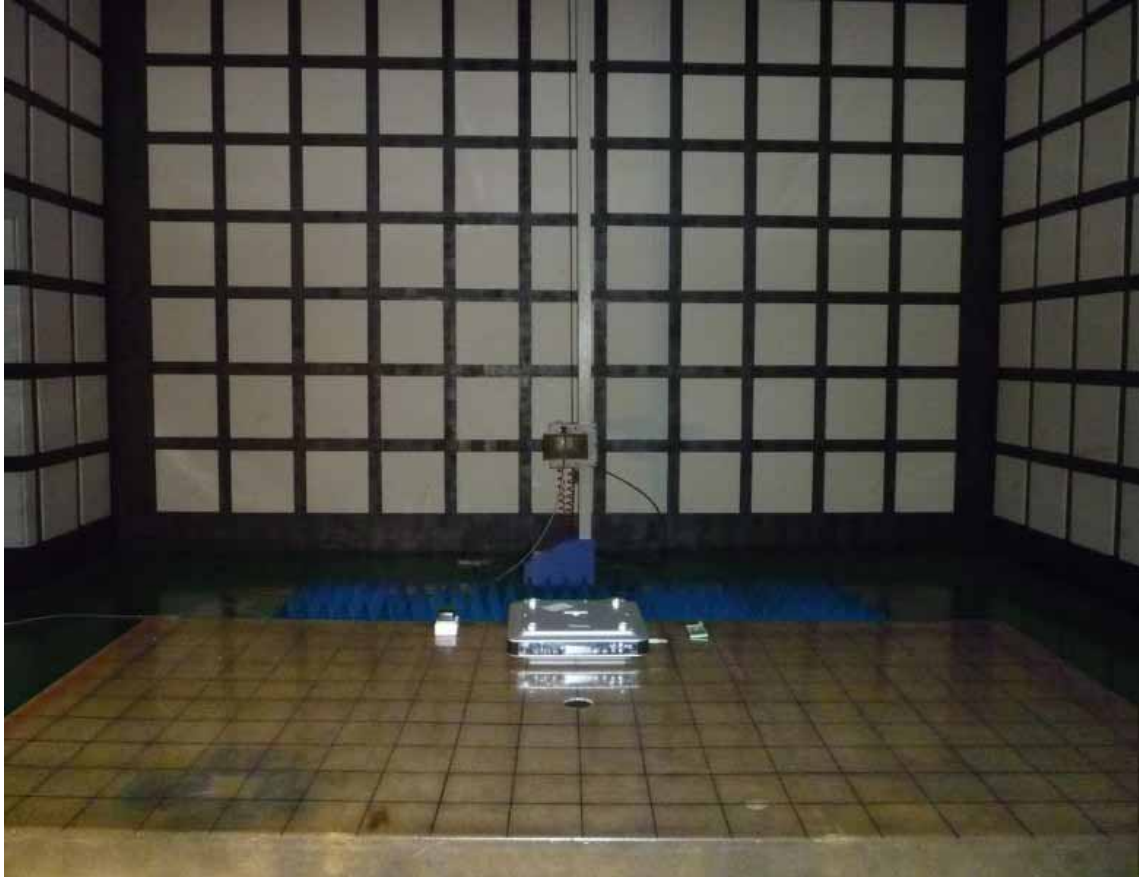


13.2.Photos of Radiated Emission Test

30-1000MHz



Above 1000MHz



14.PHOTOGRAPH OF EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT



Figure 3

General Appearance of the EUT



Figure 4

General Appearance of the EUT



Figure 5
Inside of the EUT



Figure 6
Inside of the EUT



Figure 7
Inside of the EUT



Figure 8
Component side of the PCB

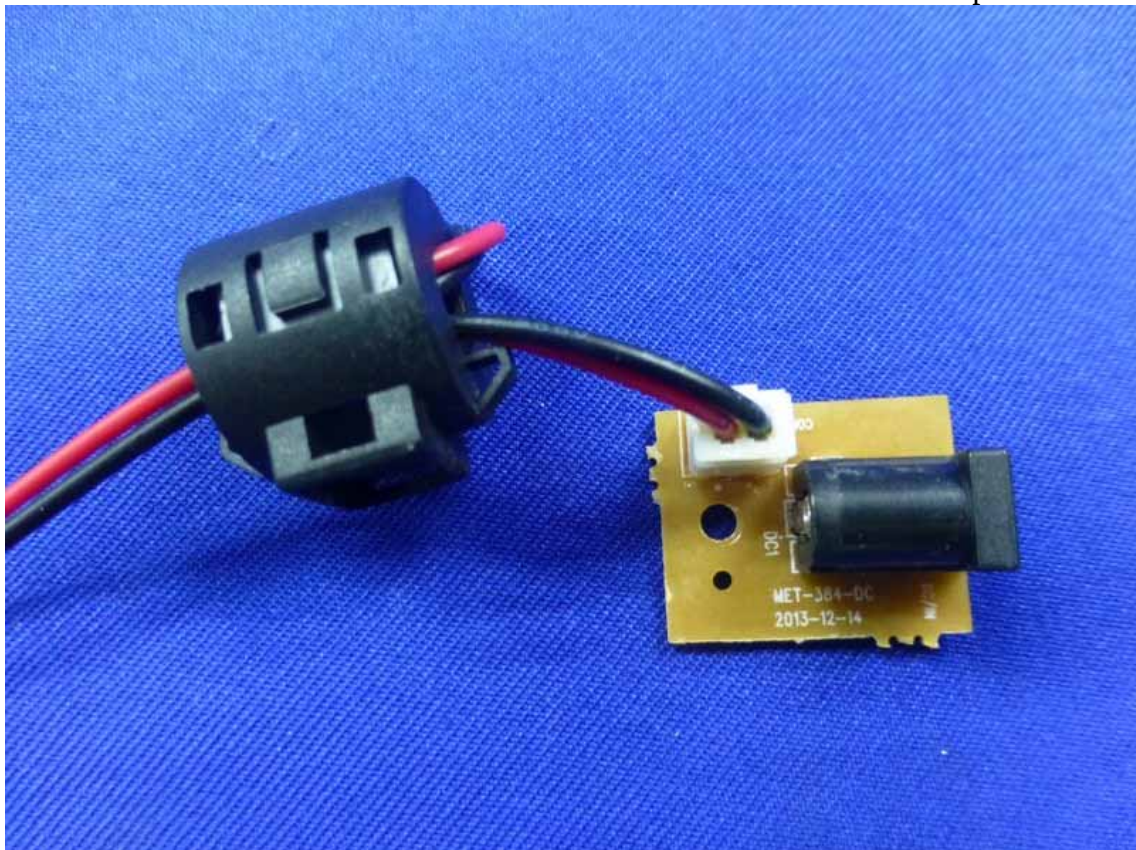


Figure 9

Component side of the PCB

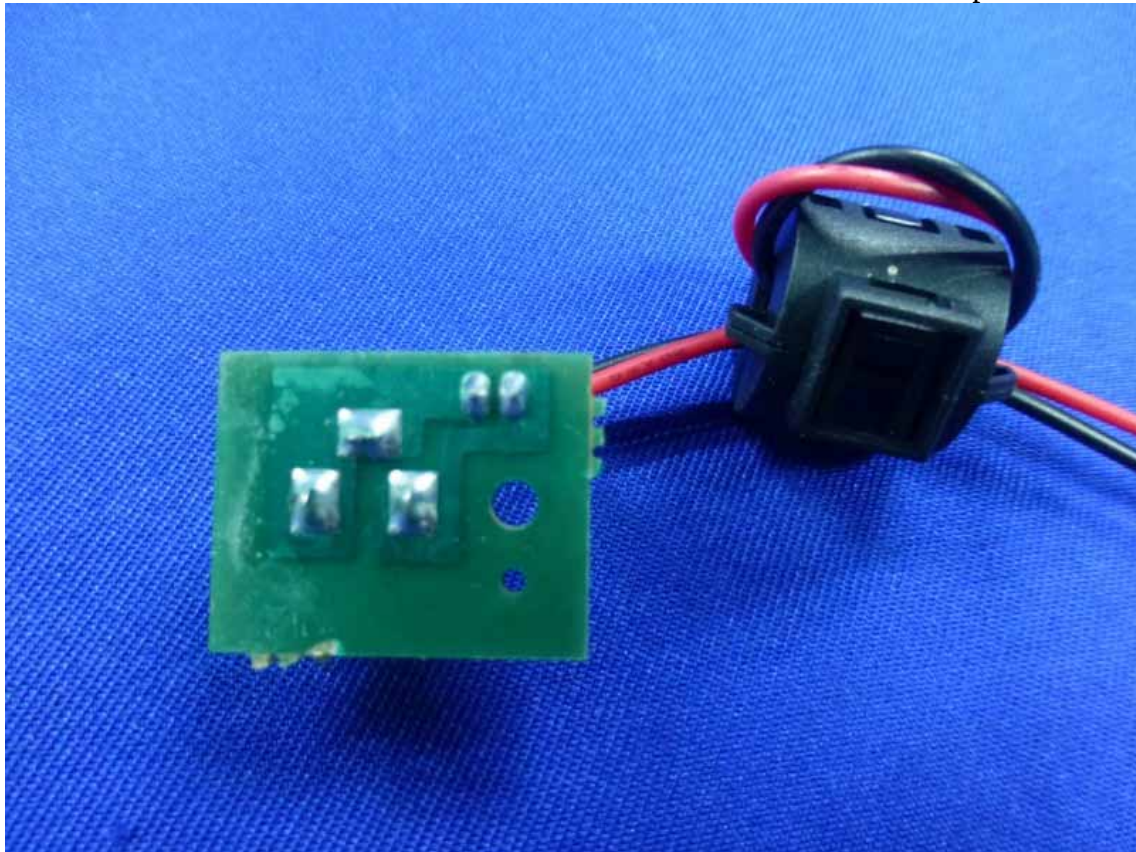


Figure 10

Component side of the PCB

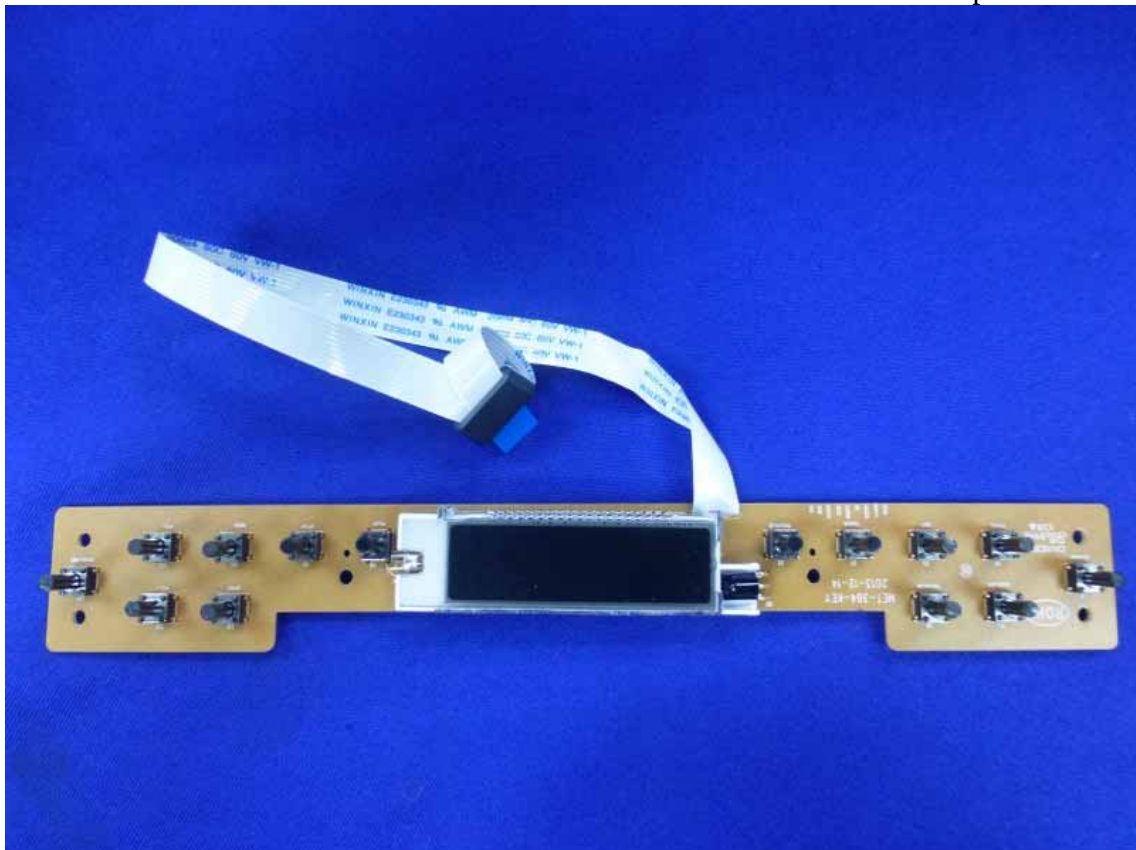


Figure 11
Component side of the PCB

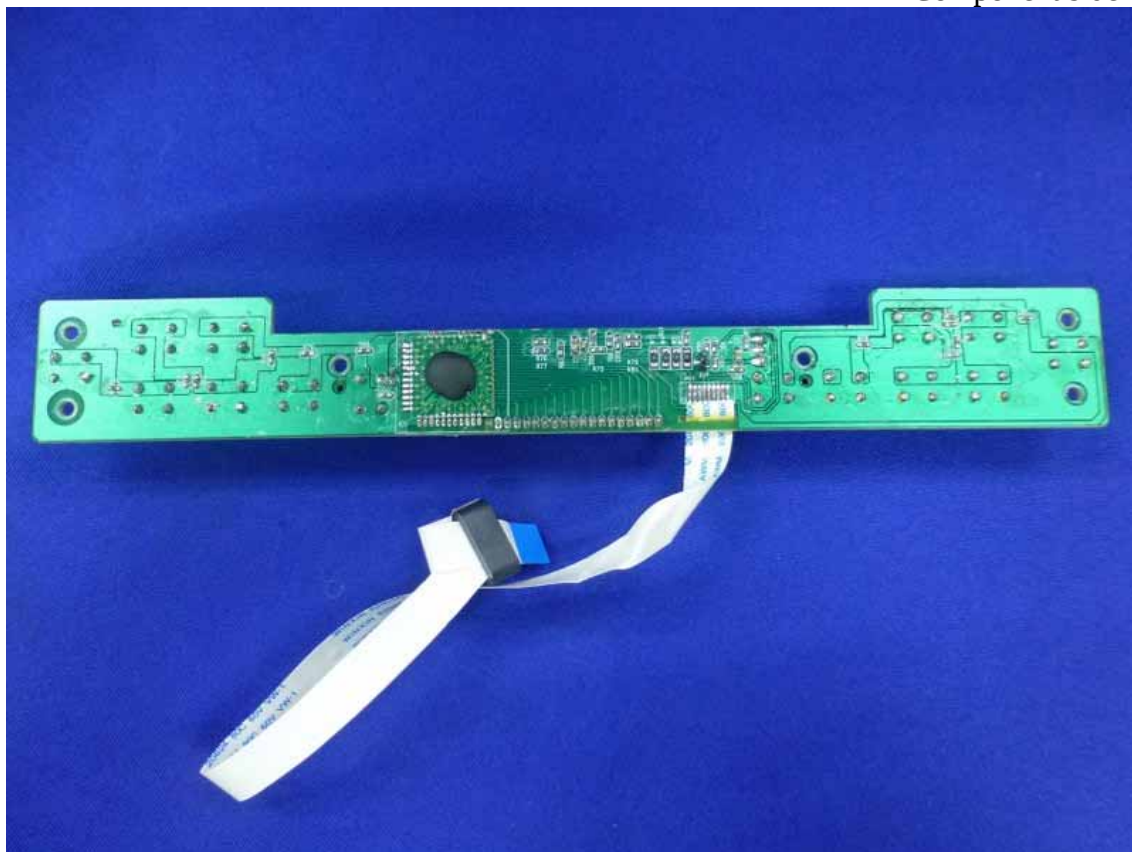


Figure 12
Component side of the PCB

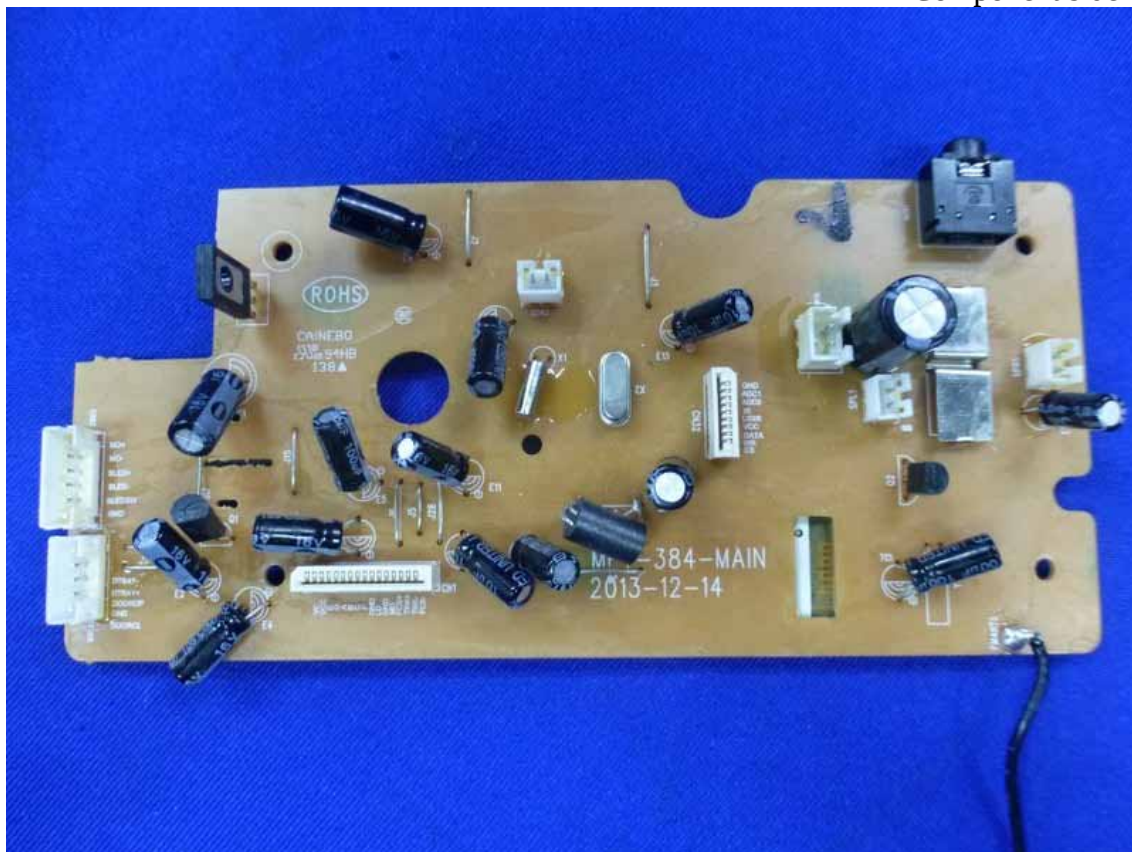


Figure 13
Component side of the PCB

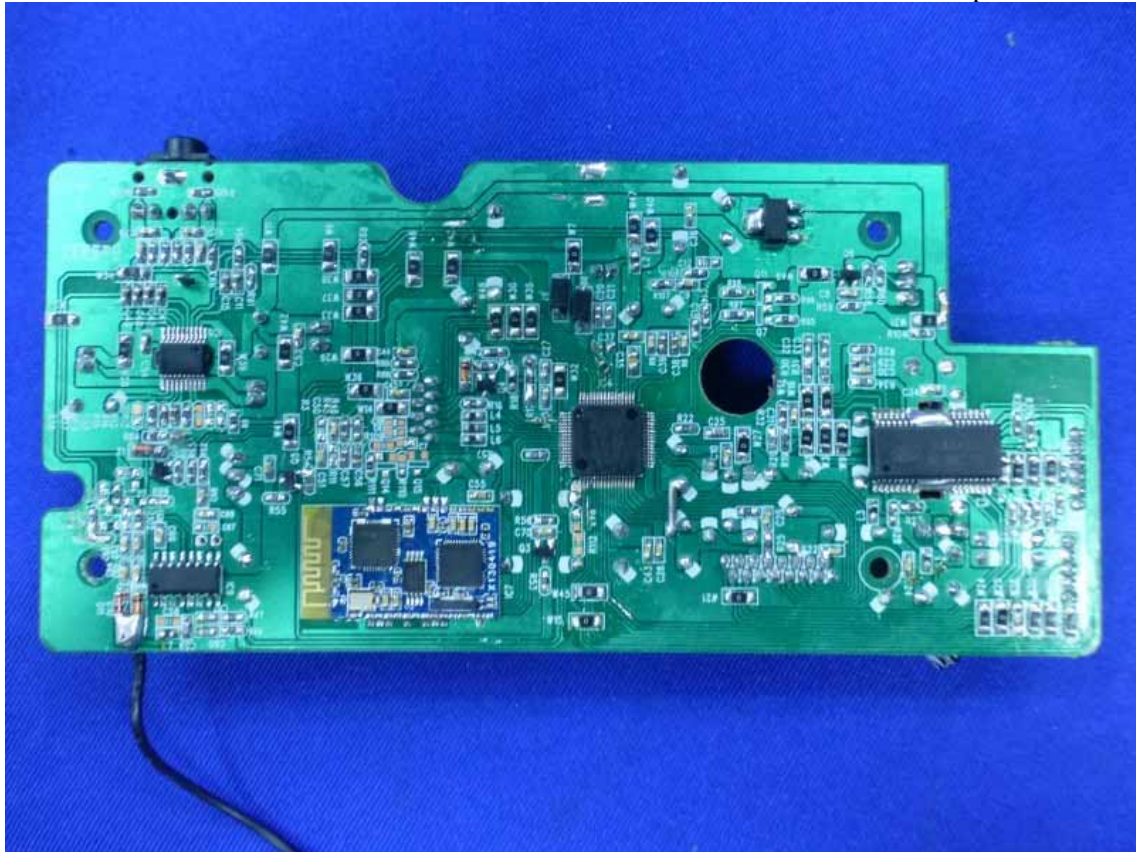


Figure 14
Speaker



Figure 15
Adapter



Figure 16
Component side of the PCB

