



FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Beautiful Enterprise Co., Ltd.

Soundbar Home Theater Speaker

Model Number: NS-SB314; NS-SB316

FCC ID: UZZNSSB314

Prepared for : Beautiful Enterprise Co., Ltd.
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Central, Hong Kong

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Report Number : ACS-F14079-1
Date of Test : Feb.24~Mar.01, 2014
Date of Report : Jan.28, 2016

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results.....	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Test information	2-2
2.3. Tested Supporting System Details	2-3
2.4. Block Diagram of Test Setup	2-3
2.5. Test Facility.....	2-4
2.6. Measurement Uncertainty (95% confidence levels, k=2)	2-4
3. POWER LINE CONDUCTED EMISSION MEASUREMENT	3-1
3.1. Test Equipment	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Power Line Conducted Emission Test Limits	3-1
3.4. Configuration of EUT on Test	3-2
3.5. Operating Condition of EUT.....	3-2
3.6. Test Procedure.....	3-2
3.7. Conducted Emission at Mains Terminals Test Results	3-2
4. RADIATED EMISSION MEASUREMENT	4-1
4.1. Test Equipment	4-1
4.2. Block Diagram of Test Setup	4-1
4.3. Radiated Emission Limit Standard: FCC 15.209	4-2
4.4. EUT Configuration on Test.....	4-2
4.5. Operating Condition of EUT.....	4-3
4.6. Test Procedure.....	4-3
4.7. Radiated Emission Test Results	4-3
5. CONDUCTED SPURIOUS EMISSIONS	5-1
5.1. Test Equipment	5-1
5.2. Limit.....	5-1
5.3. Test Procedure.....	5-1
5.4. Test result	5-1
6. CARRIER FREQUENCY SEPARATION TEST	6-1
6.1. Test Equipment	6-1
6.2. Limit.....	6-1
6.3. Test Results.	6-1
7. 20 DB BANDWIDTH TEST	7-1
7.1. Test Equipment	7-1
7.2. Limit.....	7-1
7.3. Test Results	7-1
8. NUMBER OF HOPPING FREQUENCY TEST	8-1
8.1. Test Equipment	8-1
8.2. Limit.....	8-1
8.3. Test Results	8-1
9. DWELL TIME	9-1
9.1. Test Equipment	9-1

9.2.	Limit.....	9-1
9.3.	Test Results	9-1
10.	MAXIMUM PEAK OUTPUT POWER TEST.....	10-1
10.1.	Test Equipment	10-1
10.2.	Limit.....	10-1
10.3.	Test Procedure.....	10-1
10.4.	Test Results	10-2
11.	BAND EDGE COMPLIANCE TEST	11-1
11.1.	Test Equipment	11-1
11.2.	Limit.....	11-1
11.3.	Test Produce	11-1
11.4.	Test Results	11-1
12.	DEVIATION TO TEST SPECIFICATIONS	12-1
13.	PHOTOGRAPH OF TEST.....	13-1
13.1.	Photos of Conducted Disturbance at Mains Terminals Test	13-1
13.2.	Photos of Radiated Emission Test.....	13-2
14.	PHOTOS OF THE EUT	14-1



TEST REPORT CERTIFICATION

Applicant : Beautiful Enterprise Co., Ltd.
Manufacturer : Beautiful Enterprise Co., Ltd.
Factory : Shenzhen Synchron Electronics Co., Ltd.
EUT Description : Soundbar Home Theater Speaker
FCC ID : UZZNSSB314
(A) Model No. : NS-SB314; NS-SB316
(B) Serial No. : N/A
(C) Power Supply : AC 100-240V, 50/60Hz
(D) Test Voltage : DC 18V 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 : Feb.24~Mar.01, 2014 Report of date: Jan.28, 2016

Prepared by : Monica Liu Reviewed by : Sunny Lu
Monica Liu / Assistant Sunny Lu / Assistant Manager

AUDIX® 信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Approved & Authorized Signer :

Signature: David Jin
David Jin / Manager

Modified History

Rev.	Summary	Date of Rev.	Report No.
A1.0	Original Report.	Mar.12, 2014	ACS- F14079
A1.1	To add new model: NS-SB316	Jan.28, 2016	ACS- F14079-1

Remark:

1. This report is an additional version with original report number ACS- F14079. The different with original report are to see the above table of A1.1.
2. Through evaluation of the above difference, it had no effect the test procedure and limit, we estimated that difference doesn't influence the test results. So it's no unnecessary to re-testing for this report.
3. This report is based on report of ACS- F14079.

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	: Soundbar Home Theater Speaker
Model Number	: NS-SB314; NS-SB316
Test Model	: NS-SB314
FCC ID	: UZZNSSB314
Radio	: Bluetooth3.0+EDR; Bluetooth V4.0
Operation frequency	: 2402MHz-2480MHz
Antenna	: Integrated PCB Antenna, -1.72dBi PK gain
Modulation	: Bluetooth V3.0+EDR: GFSK, $\pi/4$ DQPSK, 8DPSK Bluetooth V4.0: GFSK
Applicant	: Beautiful Enterprise Co., Ltd. 27th Floor, Beautiful Group Tower, 77 Connaught Road Central, Hong Kong
Manufacturer	: Beautiful Enterprise Co., Ltd. 27th Floor, Beautiful Group Tower, 77 Connaught Road Central, Hong Kong
Factory	: Shenzhen Synchron Electronics Co., Ltd. No. 9 Mei Li Road, Xia Men Lin, Fu Tian Area, Shenzhen, Guangdong, China
Power Adapter #1	: Manufacture: SHENZHEN JING QUAN HUA ELECTRONICS CO., LTD. M/N: NSA45EU-180250 Cable: Unshielded, Detachable, 1.6m
Power Adapter #2	: Manufacture: Ten Pao Industrial Co Ltd. M/N: S048CU1800250 Cable: Unshielded, Detachable, 1.8m
Remote	: M/N: RMC-SB314
RCA IN (R/L)Cable	: Unshielded, Detachable, 1.8m
Audio Cable	: Unshielded, Detachable, 1.8m
Date of Test	: Feb.24~Mar.01, 2014
Date of Receipt	: Jan.18, 2014
Sample Type	: Prototype production

2.2. Test information

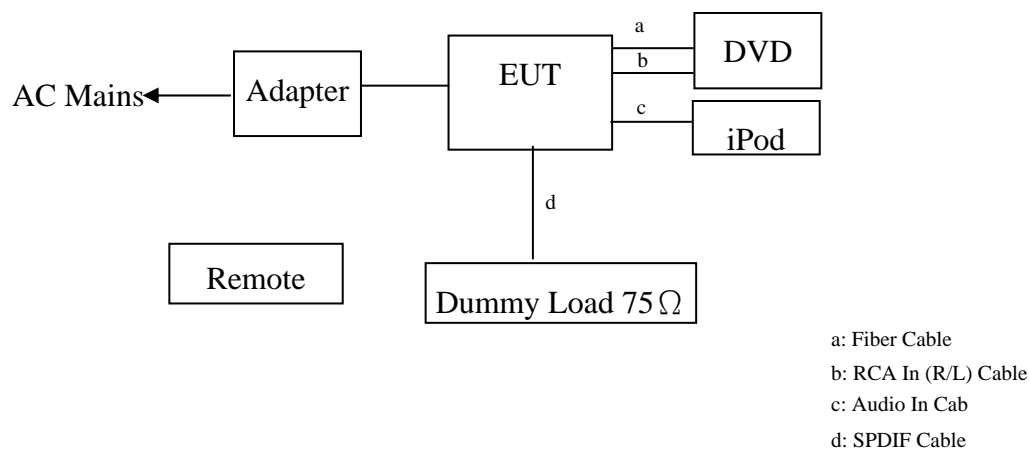
The test software “bluesuite.exe” was used to control EUT work in Continuous TX mode, and select test channel.

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.			

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	iPod nano	ACS-EMC-IP01	APPLE	A1199	YM706MLDVQ5
		Power Cord: Shielded, Detachable, 1.0m			
2.	DVD	--	VIEIO	VBR135	---
		Power Cord: Shielded, Detachable, 1.0m SPDIF Cable: Unshielded, Detachable, 1.8m Fiber Cable: Unshielded, Detachable, 1.0m			

2.4. Block Diagram of Test Setup



(EUT: Soundbar Home Theater Speaker)

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: Dec.30, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Jul.12, 2016
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	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, 2016

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

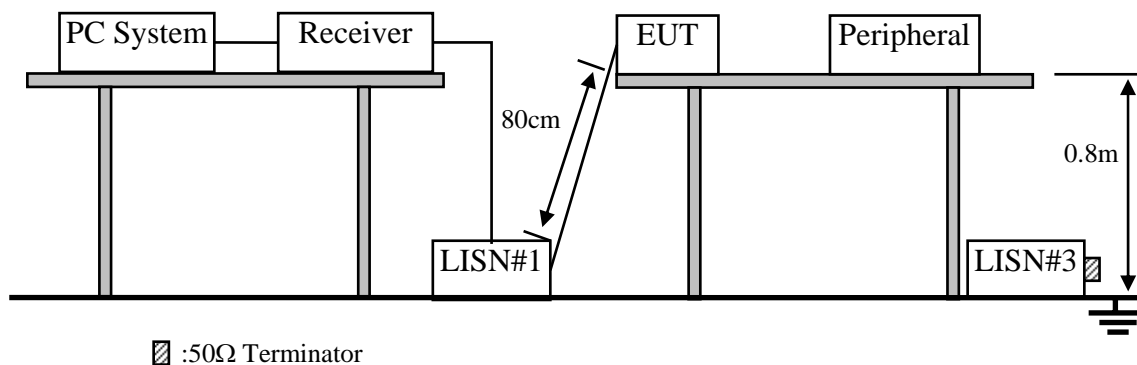
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.08 dB(9KHz to 150KHz)
	3.1 dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarization: H)
	3.23 dB(30~200MHz, Polarization: V)
	3.49 dB(200M~1GHz, Polarization: H)
	3.39 dB(200M~1GHz, Polarization: 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. Soundbar Home Theater Speaker (EUT)

Model Number : NS-SB314

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 equipments.

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

3.6. Test Procedure

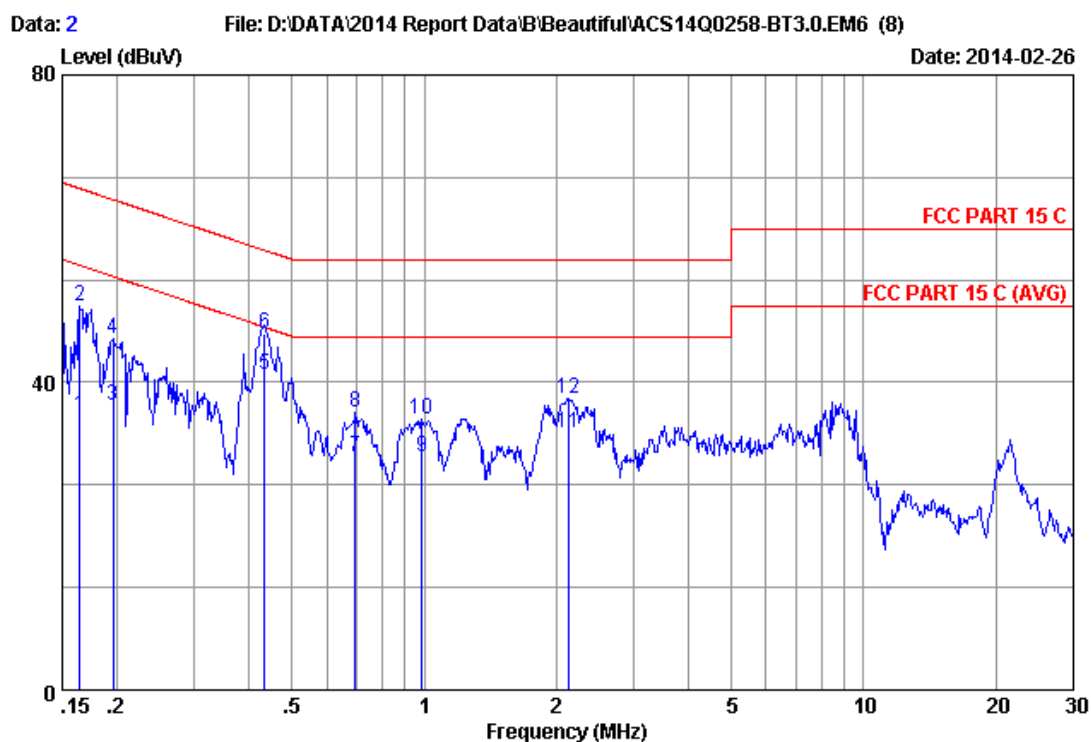
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). 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 C63.10-2009 on conducted Emission test.

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

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

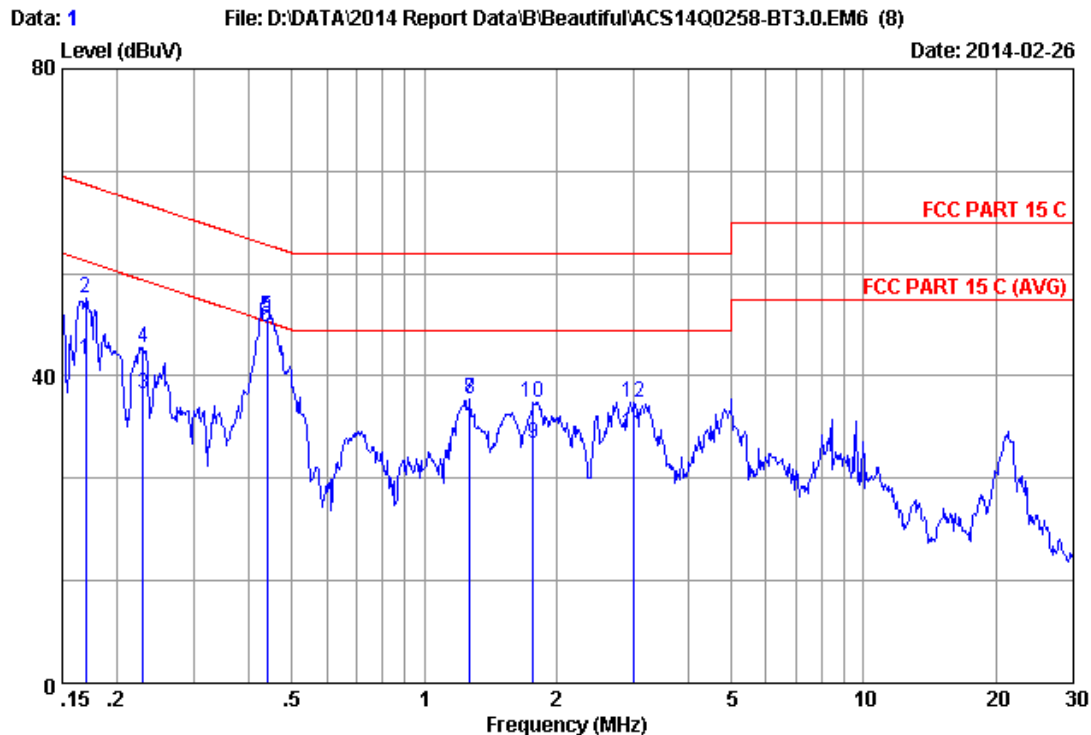
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1#conduction Data No :2
 Dis./Ant. :** 2014 ESH2-Z5 LINE
 Limit :FCC PART 15 C
 Env./Ins. :25.3°C/50% Engineer :Alan_Chen
 EUT :Soundbar Home Theater Speaker
 Power Rating :DC 18V Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:NS-SB314
 Adapter M/N:S048CU1800250

No	Freq (MHz)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16414	9.87	25.65	35.64	55.25	19.61	Average
2	0.16414	9.87	39.82	49.81	65.25	15.44	QP
3	0.19550	9.88	27.06	37.07	53.80	16.73	Average
4	0.19550	9.88	35.59	45.60	63.80	18.20	QP
5	0.43281	9.88	31.05	41.08	47.20	6.12	Average
6	0.43281	9.88	36.41	46.44	57.20	10.76	QP
7	0.69725	9.89	20.34	30.39	46.00	15.61	Average
8	0.69725	9.89	25.96	36.01	56.00	19.99	QP
9	0.98914	9.89	20.34	30.40	46.00	15.60	Average
10	0.98914	9.89	25.14	35.20	56.00	20.80	QP
11	2.133	9.91	23.35	33.45	46.00	12.55	Average
12	2.133	9.91	27.85	37.95	56.00	18.05	QP

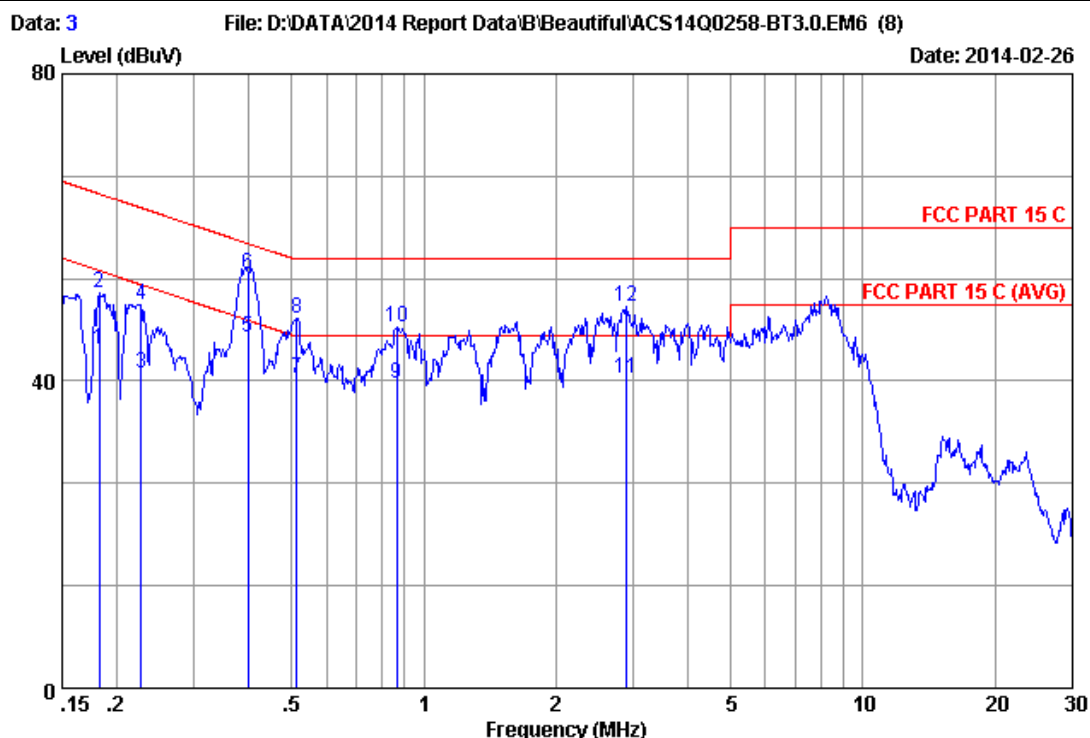
Remarks: 1.Emission Level=Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1#conduction Data No :1
 Dis./Ant. :** 2014 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :25.3°C/50% Engineer :Alan_Chen
 EUT :Soundbar Home Theater Speaker
 Power Rating :DC 18V Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:NS-SB314
 Adapter M/N:S048CU1800250

No	Freq (MHz)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark (dB)
1	0.16944	9.87	32.05	42.05	64.99	22.94	Average
2	0.16944	9.87	40.19	50.19	64.99	14.80	QP
3	0.22918	9.88	27.60	37.61	62.48	24.87	Average
4	0.22918	9.88	33.72	43.73	62.48	18.75	QP
5	0.43974	9.88	37.60	47.63	57.07	9.44	Average
6	0.43974	9.88	36.42	46.45	57.07	10.62	QP
7	1.269	9.90	26.89	36.97	56.00	19.03	Average
8	1.269	9.90	26.89	36.97	56.00	19.03	QP
9	1.772	9.91	21.03	31.13	56.00	24.87	Average
10	1.772	9.91	26.41	36.51	56.00	19.49	QP
11	2.993	9.92	22.34	32.50	56.00	23.50	Average
12	2.993	9.92	26.46	36.62	56.00	19.38	QP

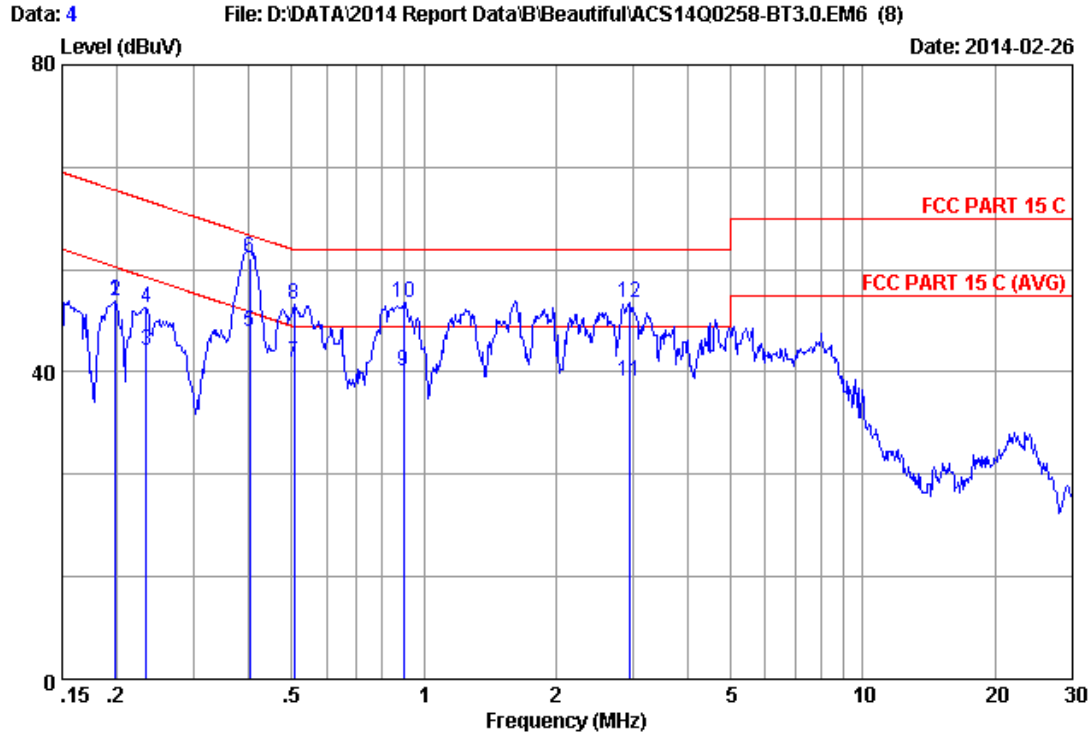
Remarks: 1.Emission Level=Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1#conduction Data No :3
Dis./Ant. :** 2014 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :25.3°C/50% Engineer :Alan_Chen
EUT :Soundbar Home Theater Speaker
Power Rating :DC 18V Adapter Input AC 120V/60Hz
Test Mode :Tx Mode
M/N:NS-SB314
Adapeter M/N:NSA45EU-180250

No	Freq (MHz)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18249	9.88	34.06	44.07	54.37	10.30	Average
2	0.18249	9.88	41.46	51.47	64.37	12.90	QP
3	0.22676	9.88	31.05	41.06	52.57	11.51	Average
4	0.22676	9.88	39.97	49.98	62.57	12.59	QP
5	0.39800	9.88	35.68	45.71	47.90	2.19	Average
6	0.39800	9.88	43.88	53.91	57.90	3.99	QP
7	0.51278	9.88	30.25	40.28	46.00	5.72	Average
8	0.51278	9.88	38.05	48.08	56.00	7.92	QP
9	0.86643	9.89	29.67	39.72	46.00	6.28	Average
10	0.86643	9.89	36.98	47.03	56.00	8.97	QP
11	2.900	9.92	30.25	40.41	46.00	5.59	Average
12	2.900	9.92	39.43	49.59	56.00	6.41	QP

Remarks: 1.Emission Level=Cable Loss(Include 10dB pulse limit)+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 : 4
 Dis./Ant. : ** 2014 ESH2-Z5 LINE
 Limit : FCC PART 15 C
 Env./Ins. : 25.3°C/50% Engineer : Alan_Chen
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V Adapter Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N: NS-SB314
 Adapter M/N: NSA45EU-180250

No	Freq (MHz)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19863	9.88	39.23	49.24	53.67	4.43	Average
2	0.19863	9.88	39.23	49.24	63.67	14.43	QP
3	0.23285	9.88	32.69	42.70	52.35	9.65	Average
4	0.23285	9.88	38.41	48.42	62.35	13.93	QP
5	0.40187	9.88	35.26	45.29	47.81	2.52	Average
6	0.40187	9.88	44.73	54.76	57.81	3.05	QP
7	0.50737	9.88	31.20	41.23	46.00	4.77	Average
8	0.50737	9.88	38.75	48.78	56.00	7.22	QP
9	0.89917	9.89	30.12	40.18	46.00	5.82	Average
10	0.89917	9.89	39.00	49.06	56.00	6.94	QP
11	2.931	9.92	28.69	38.83	46.00	7.17	Average
12	2.931	9.92	38.78	48.92	56.00	7.08	QP

Remarks: 1. Emission Level = Cable Loss (Include 10dB pulse limit) + 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

Frequency rang: 30~1000MHz

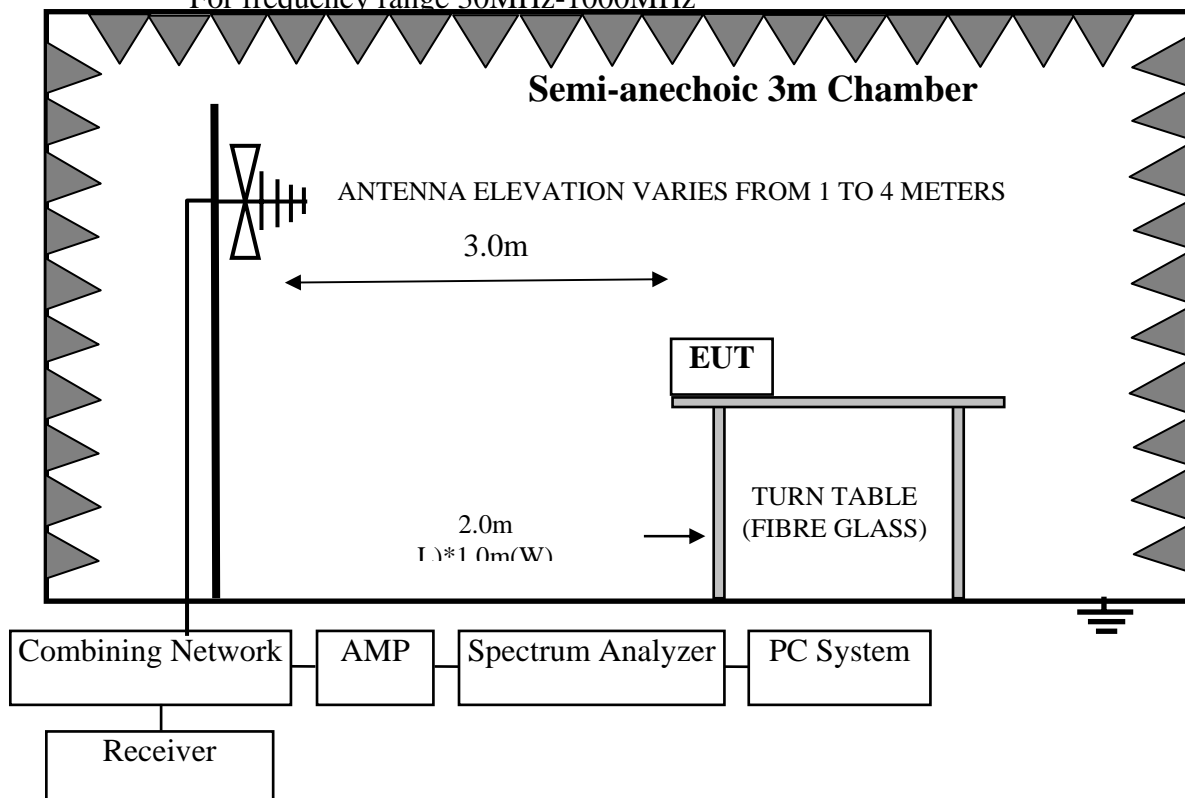
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog 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

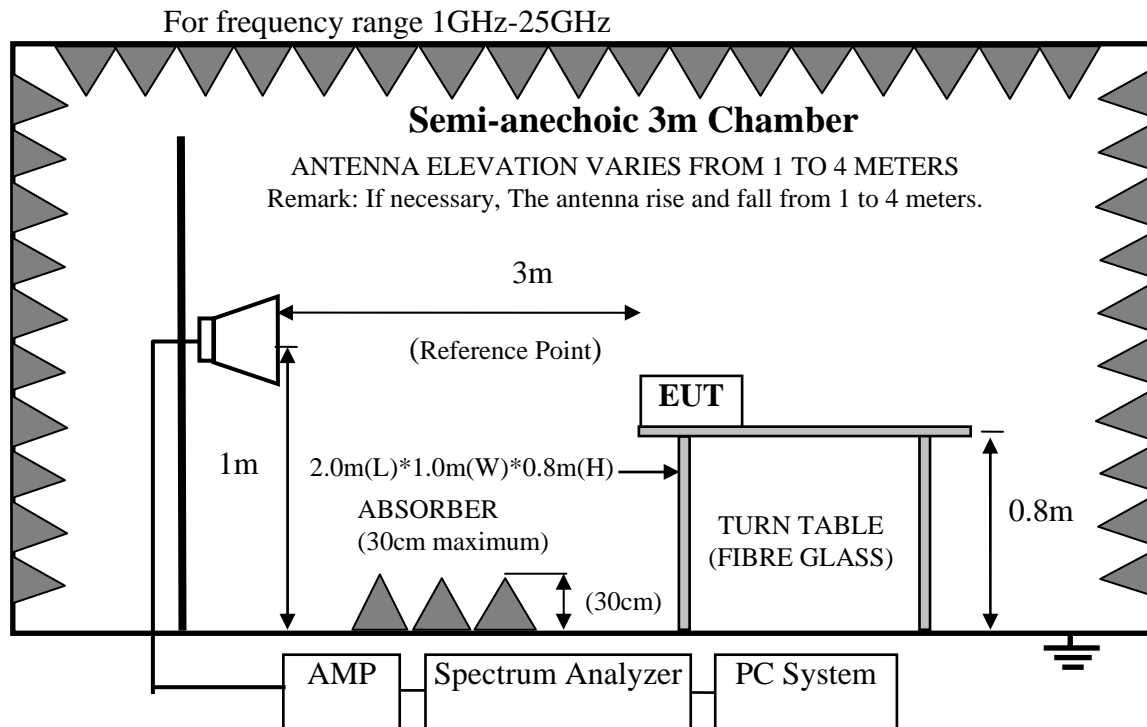
Frequency rang: above 1000MHz

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	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	Aug.27, 13	1 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	May.08, 13	1 Year
6	Horn Antenna	EMCO	3116	00060089	Aug.28, 13	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





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. Soundbar Home Theater Speaker (EUT)

Model Number : NS-SB314
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.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

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 above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

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

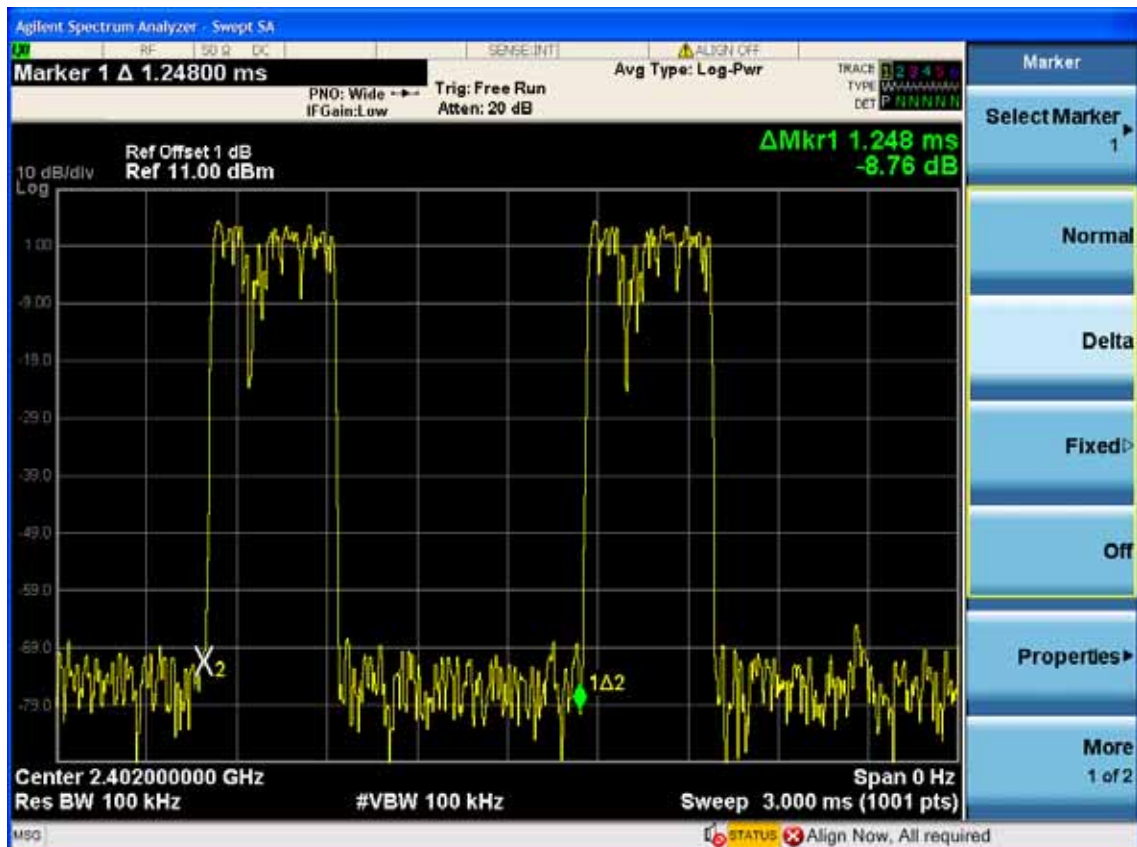
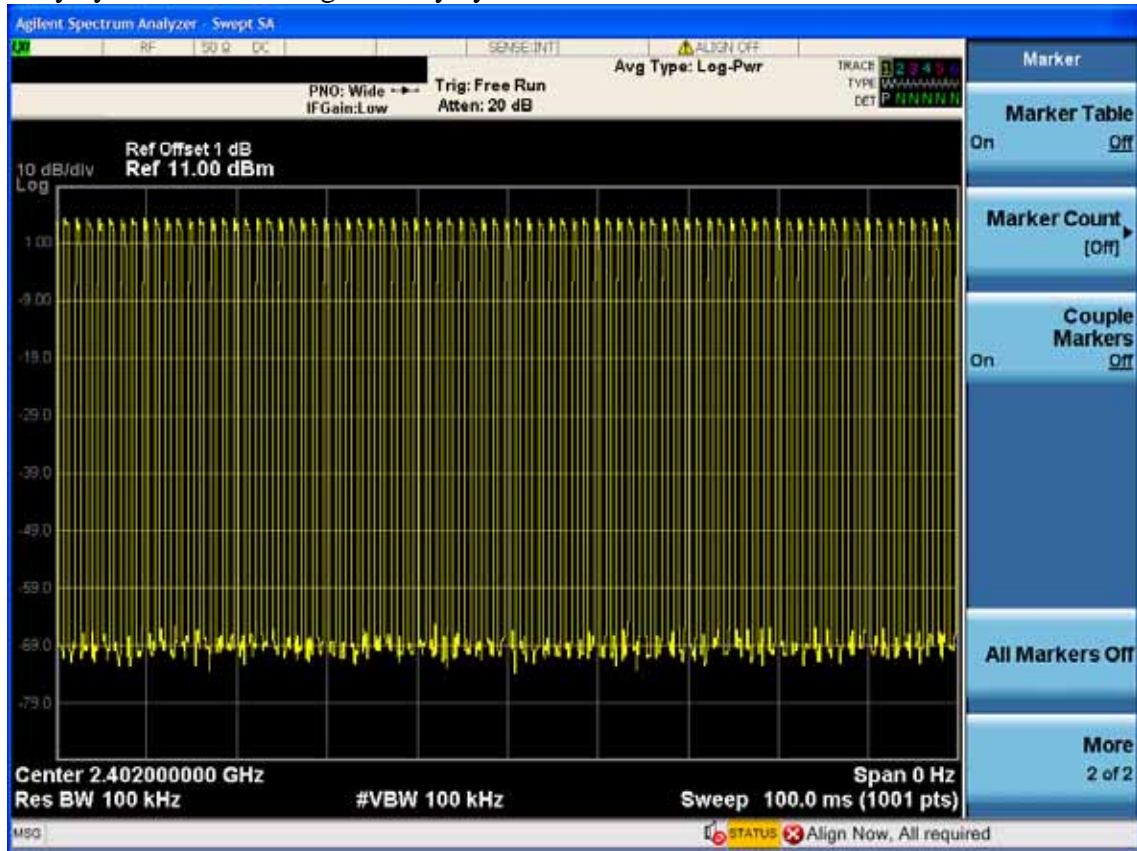
PASS.

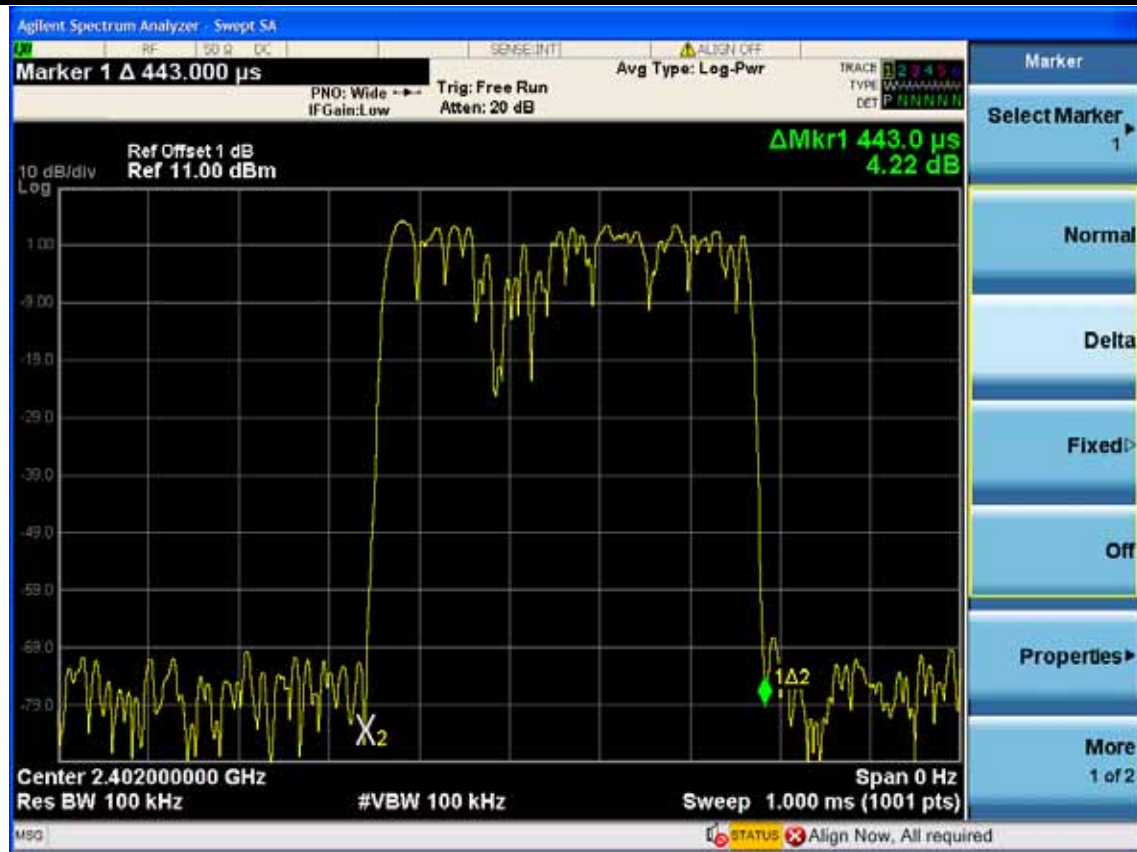
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is 9.00dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Duty cycle: $0.443 \text{ ms} / 1.248 \text{ ms} * 100\% = 35.50\%$

Duty cycle factor = $20 \log (1/\text{duty cycle}) = 9.00$



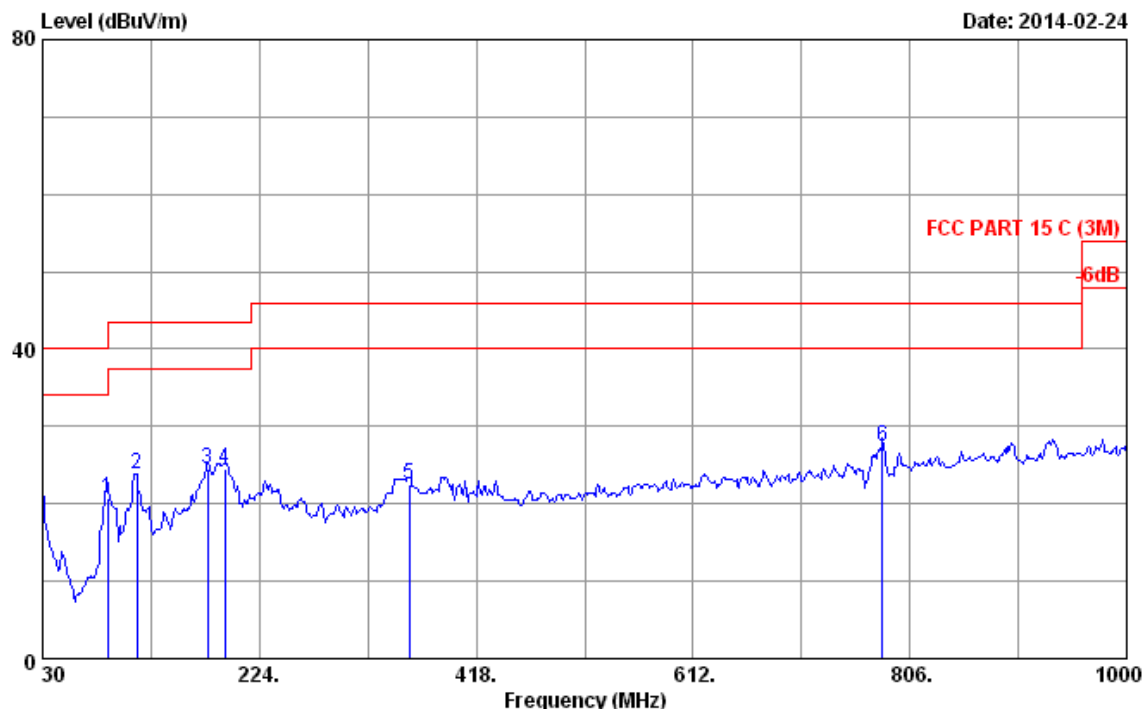


Frequency: 30MHz~1GHz

Data: 1

File: E:\2014 Report Data\B\Beautiful\ACS1400258-BT3.0.EM6 (12)

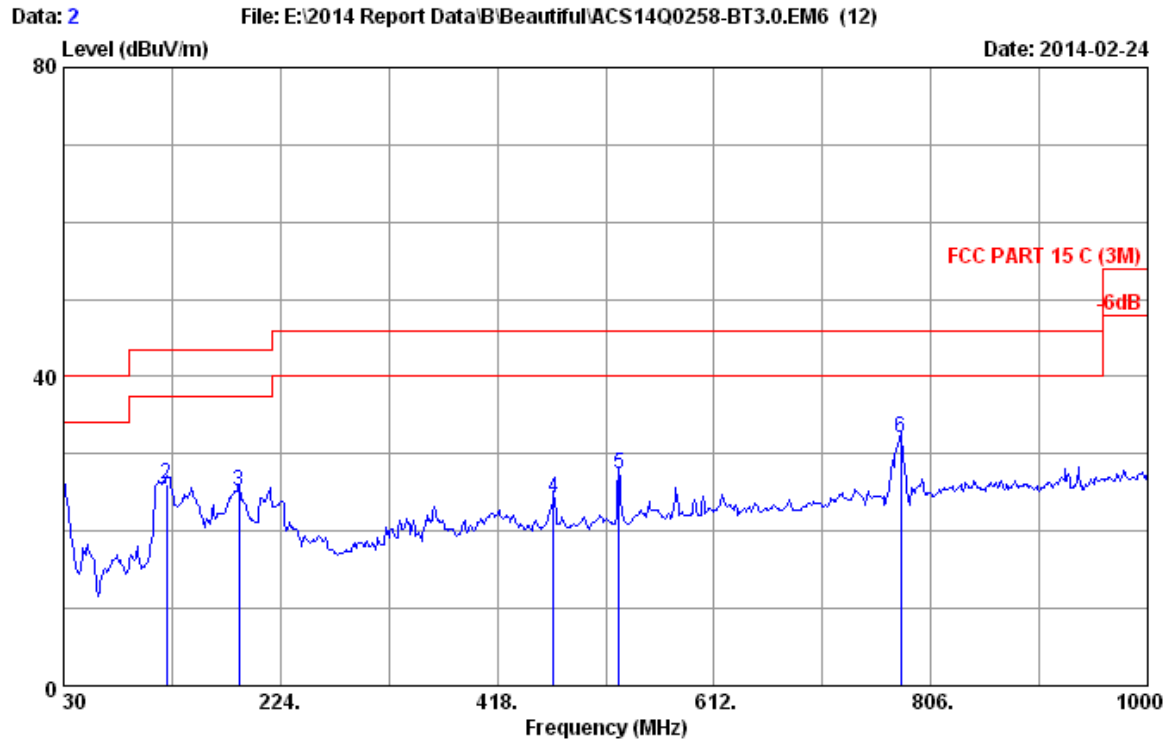
Date: 2014-02-24



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Donjon
EUT : Soundbar Home Theater Speaker
Power rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N: NS-SB314
Adapter Model: S048CU1800250

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	88.200	9.04	1.36	10.35	20.75	43.50	22.75	QP
2	114.390	12.62	1.46	9.86	23.94	43.50	19.56	QP
3	177.440	9.83	1.70	12.90	24.43	43.50	19.07	QP
4	192.960	9.75	1.76	12.96	24.47	43.50	19.03	QP
5	357.860	15.66	2.34	4.49	22.49	46.00	23.51	QP
6	781.750	20.64	3.56	3.23	27.43	46.00	18.57	QP

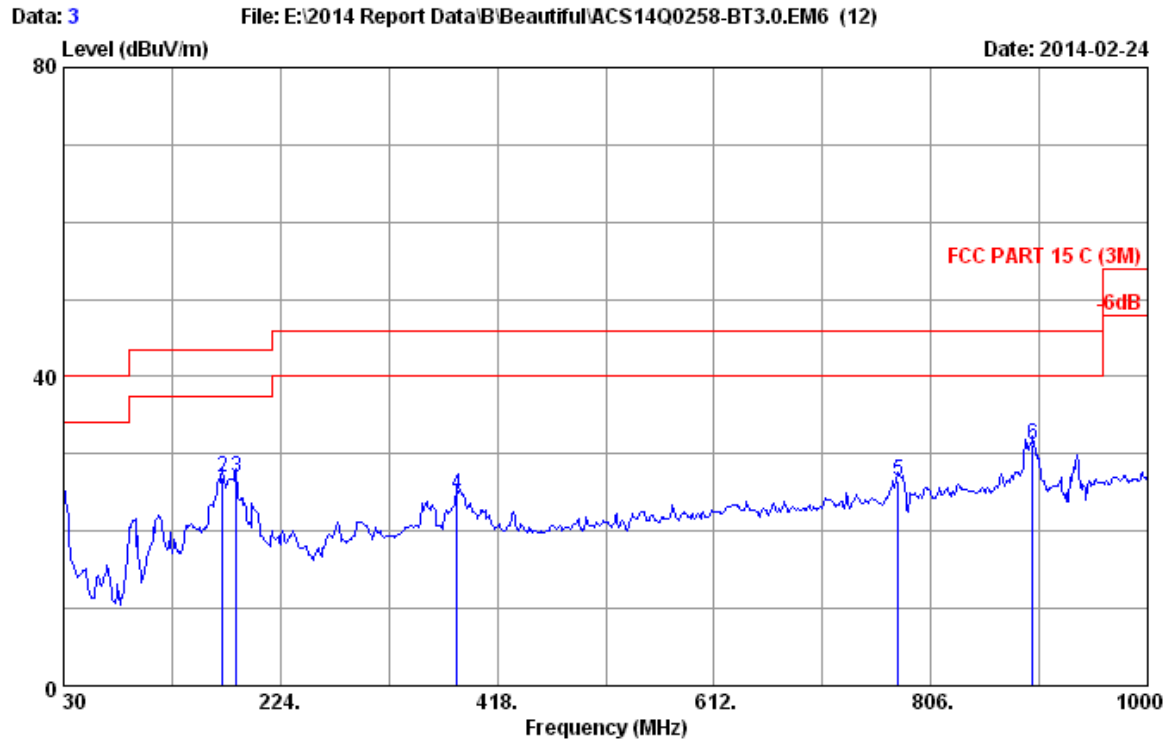
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Donjon
EUT : Soundbar Home Theater Speaker
Power rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N: NS-SB314
Adapter Model: S048CU1800250

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	20.10	0.83	4.86	25.79	40.00	14.21	QP
2	122.150	12.81	1.49	11.80	26.10	43.50	17.40	QP
3	187.140	9.60	1.74	13.76	25.10	43.50	18.40	QP
4	468.440	17.57	2.66	4.01	24.24	46.00	21.76	QP
5	526.640	18.10	2.83	6.43	27.36	46.00	18.64	QP
6	778.840	20.60	3.55	7.87	32.02	46.00	13.98	QP

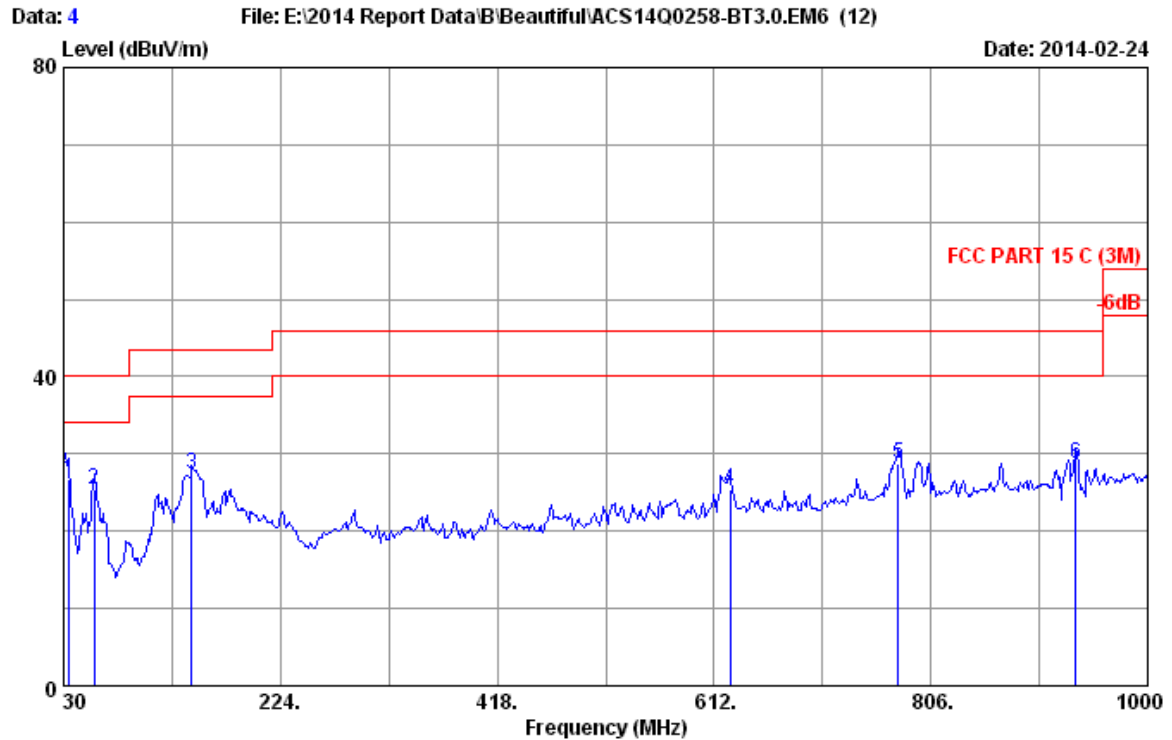
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/34% Engineer : Donjon
EUT : Soundbar Home Theater Speaker
Power rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N: NS-SB314
Adapter Model: NSA45EU-180250

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	20.10	0.83	3.68	24.61	40.00	15.39	QP
2	172.590	10.07	1.69	15.26	27.02	43.50	16.48	QP
3	184.230	9.60	1.73	15.72	27.05	43.50	16.45	QP
4	382.110	15.94	2.41	6.49	24.84	46.00	21.16	QP
5	776.900	20.60	3.54	2.48	26.62	46.00	19.38	QP
6	897.180	21.54	3.92	5.79	31.25	46.00	14.75	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. : 4
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/34% Engineer : Donjon
EUT : Soundbar Home Theater Speaker
Power rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : Tx Mode
M/N: NS-SB314
Adapter Model: NSA45EU-180250

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	17.09	0.92	8.84	26.85	40.00	13.15	QP
2	57.160	7.07	1.22	17.12	25.41	40.00	14.59	QP
3	144.460	11.65	1.58	14.26	27.49	43.50	16.01	QP
4	626.550	19.53	3.11	2.83	25.47	46.00	20.53	QP
5	776.900	20.60	3.54	4.52	28.66	46.00	17.34	QP
6	935.980	21.82	4.04	2.97	28.83	46.00	17.17	QP

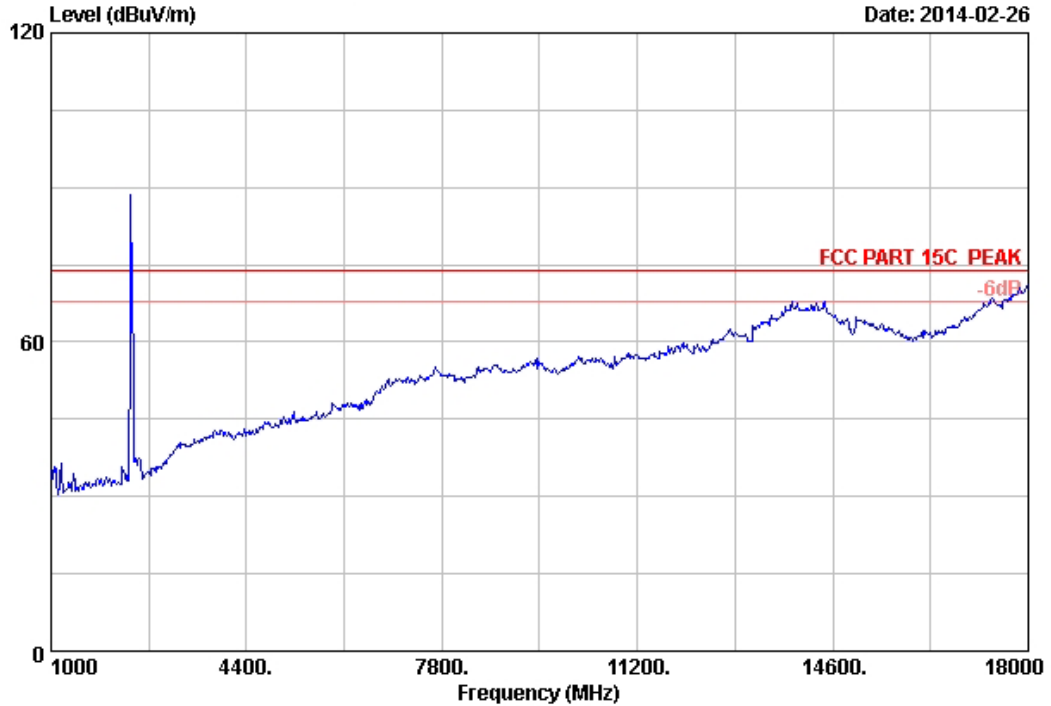
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

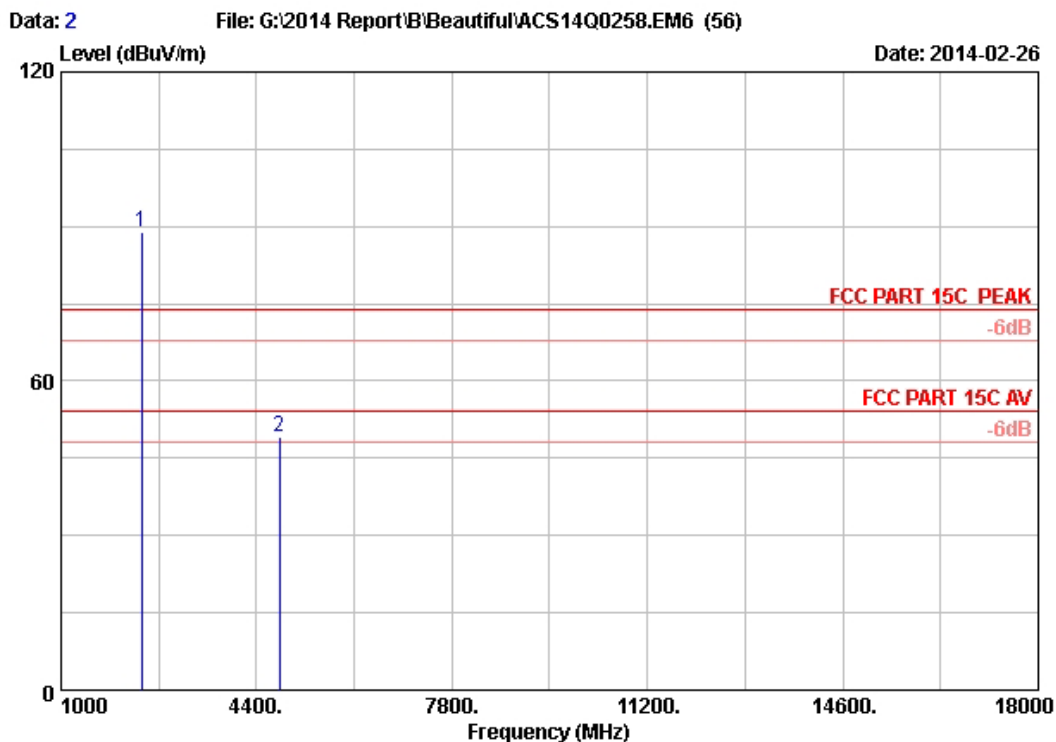
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Date: 2014-02-26



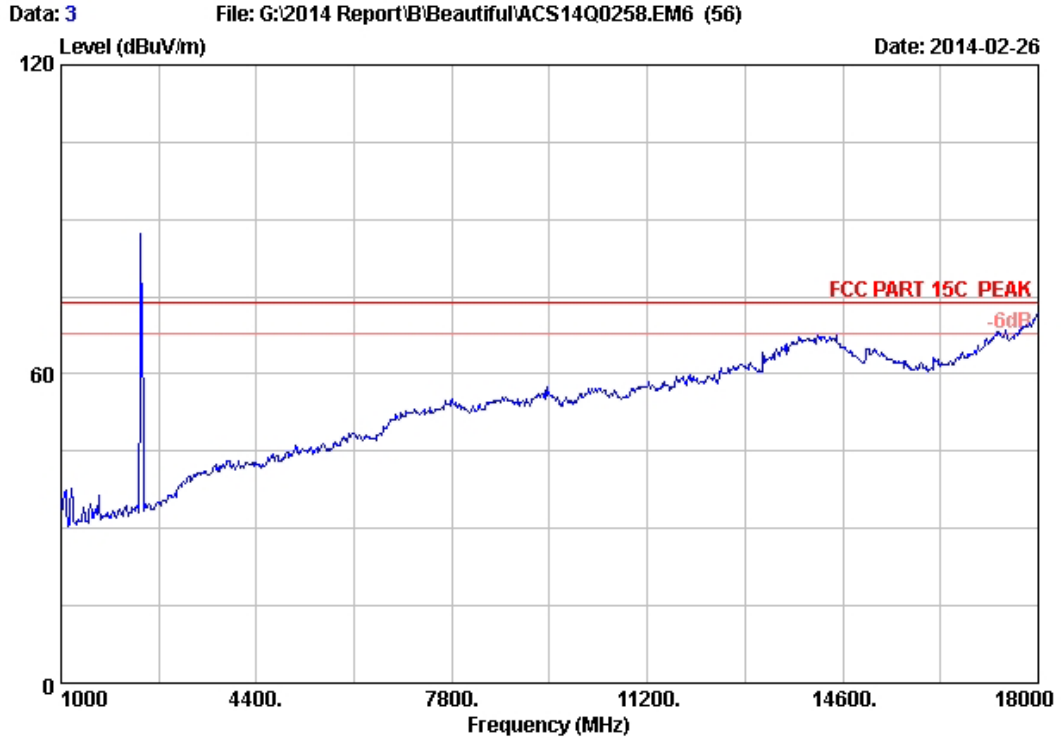
Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2402Hz Tx
M/N : NS-SB314



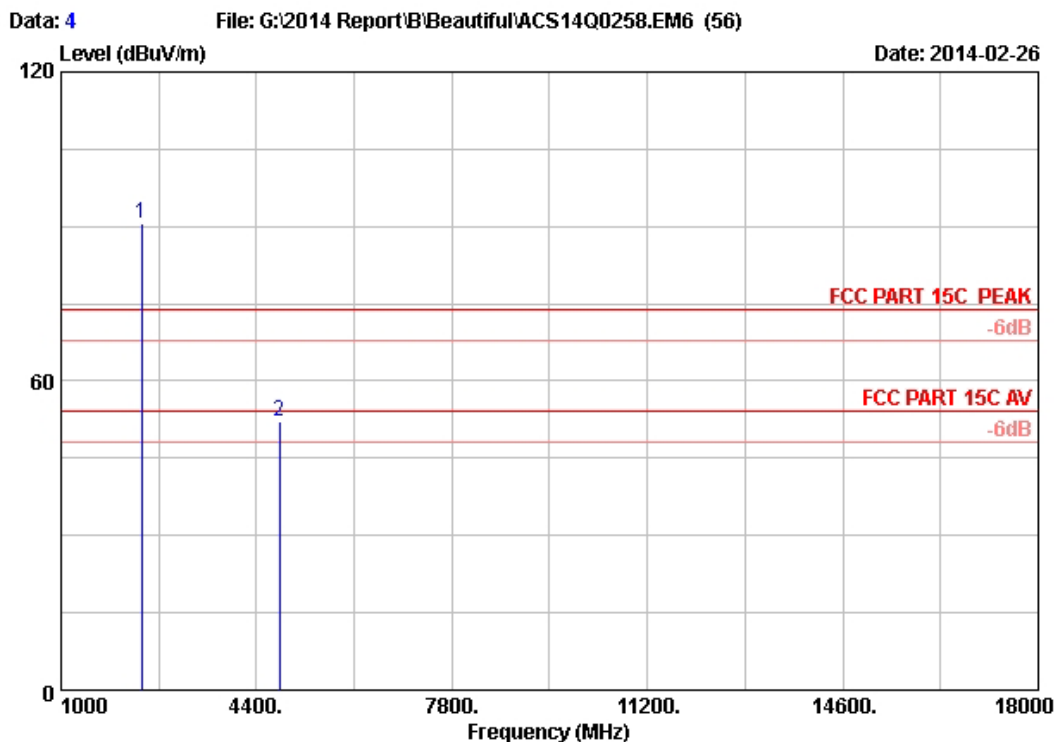
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2402Hz Tx
 M/N : NS-SB314

No.	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	23.79	5.80	35.70	94.86	88.75	74.00	-14.75	Peak
2	4804.000	31.67	8.56	35.70	44.47	49.00	74.00	25.00	Peak

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



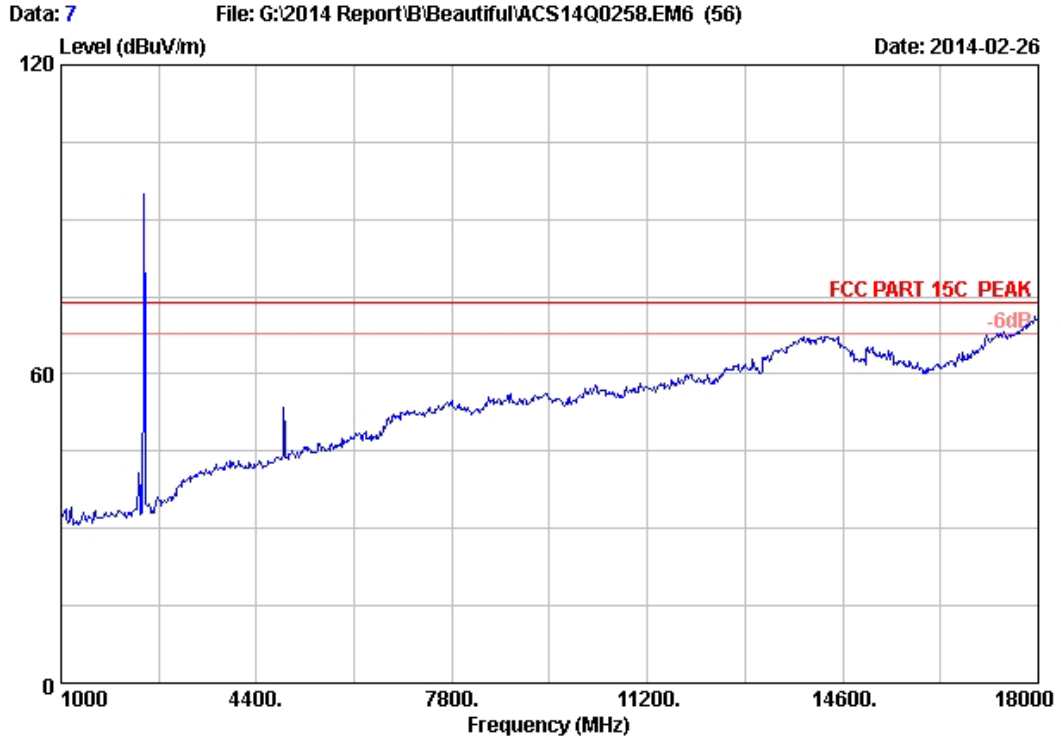
Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2402Hz Tx
 M/N : NS-SB314



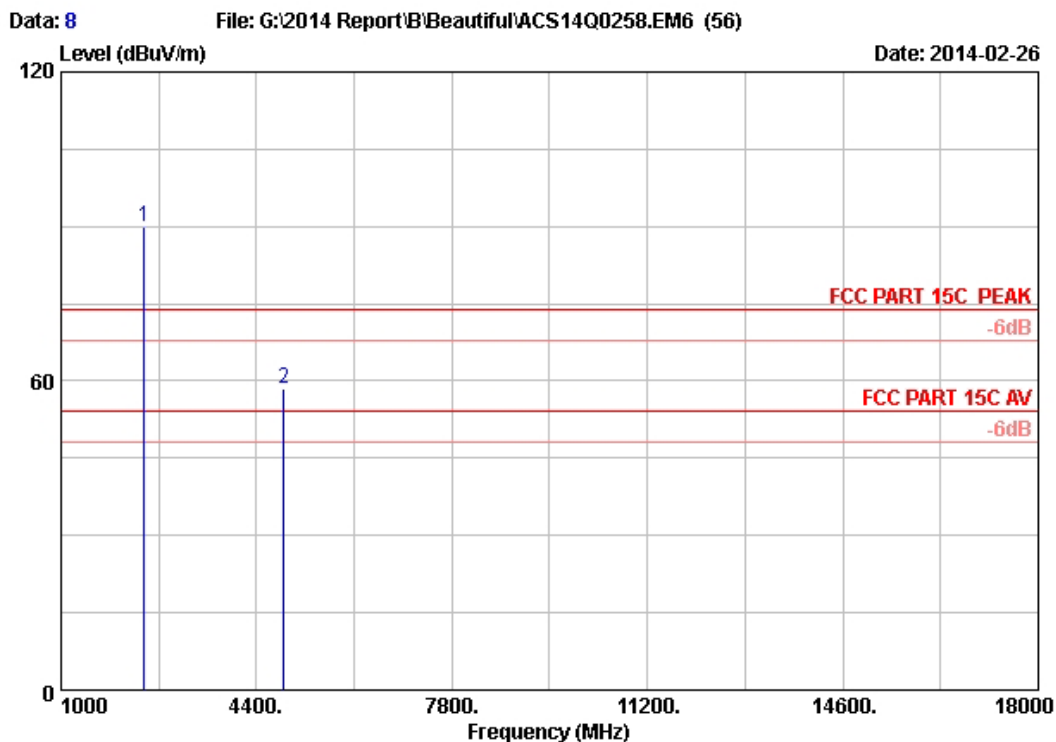
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2402Hz Tx
 M/N : NS-SB314

No.	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	23.79	5.80	35.70	96.85	90.74	74.00	-16.74	Peak
2	4804.000	31.67	8.56	35.70	47.59	52.12	74.00	21.88	Peak

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



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2441Hz Tx
 M/N : NS-SB314

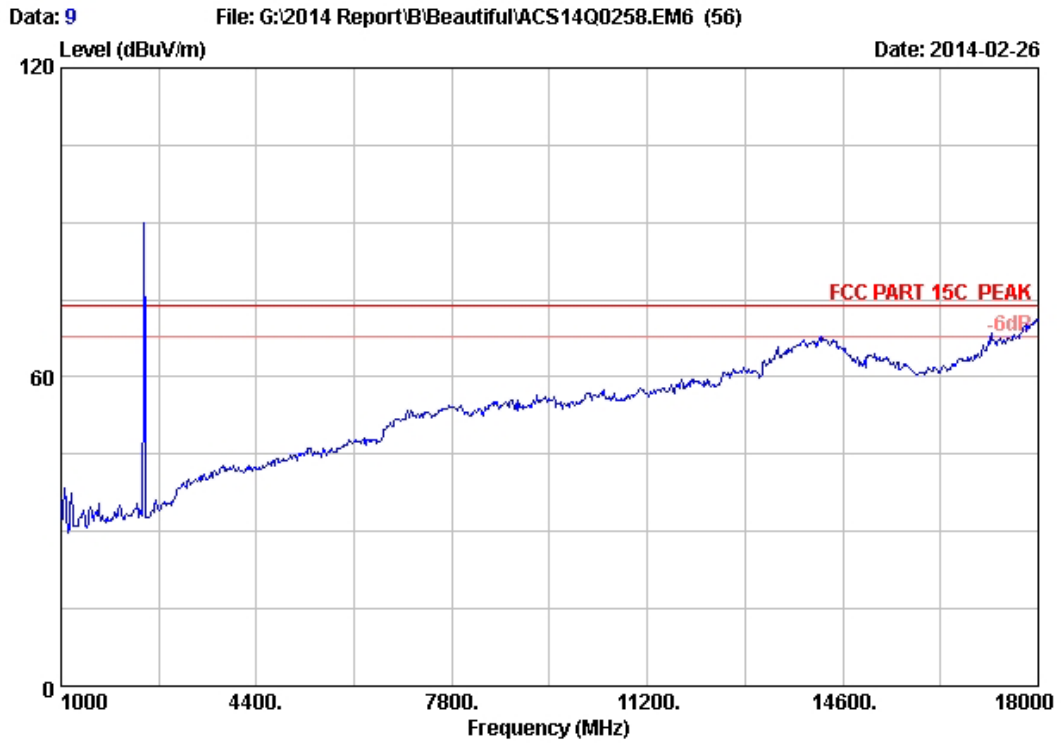


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2441Hz Tx
 M/N : NS-SB314

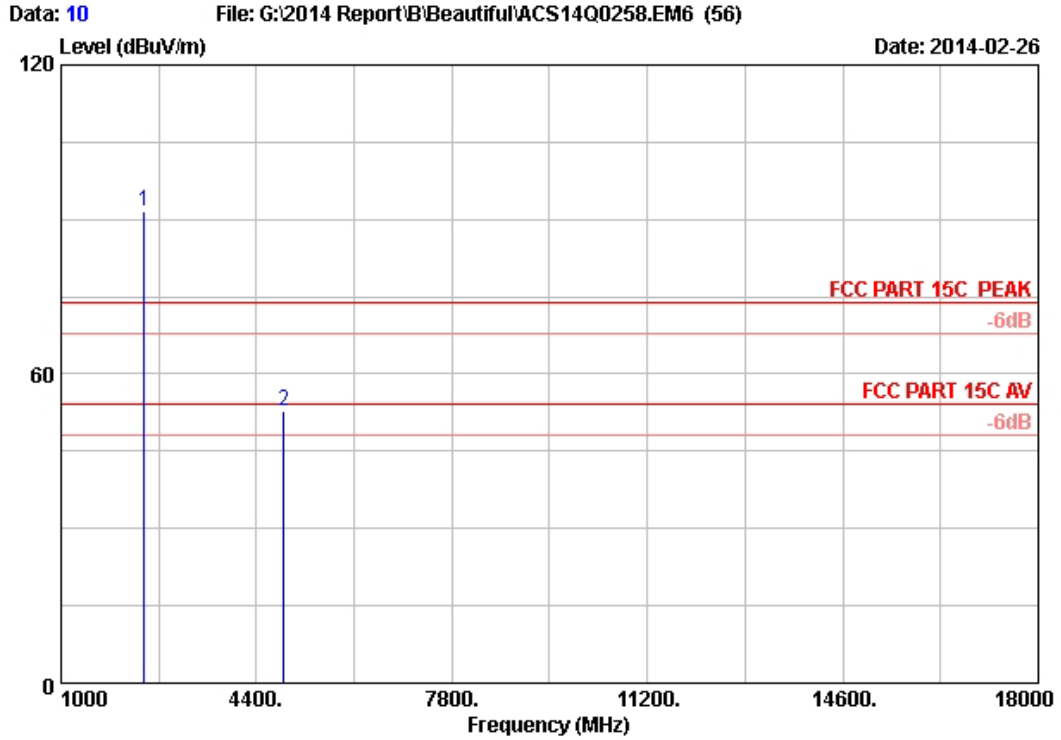
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	23.75	5.86	35.70	95.86	89.77	74.00	-15.77	Peak
2	4882.000	31.88	8.64	35.70	53.59	58.41	54.00	15.59	Peak

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

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4882.000	58.41	9.00	49.41	54	Pass



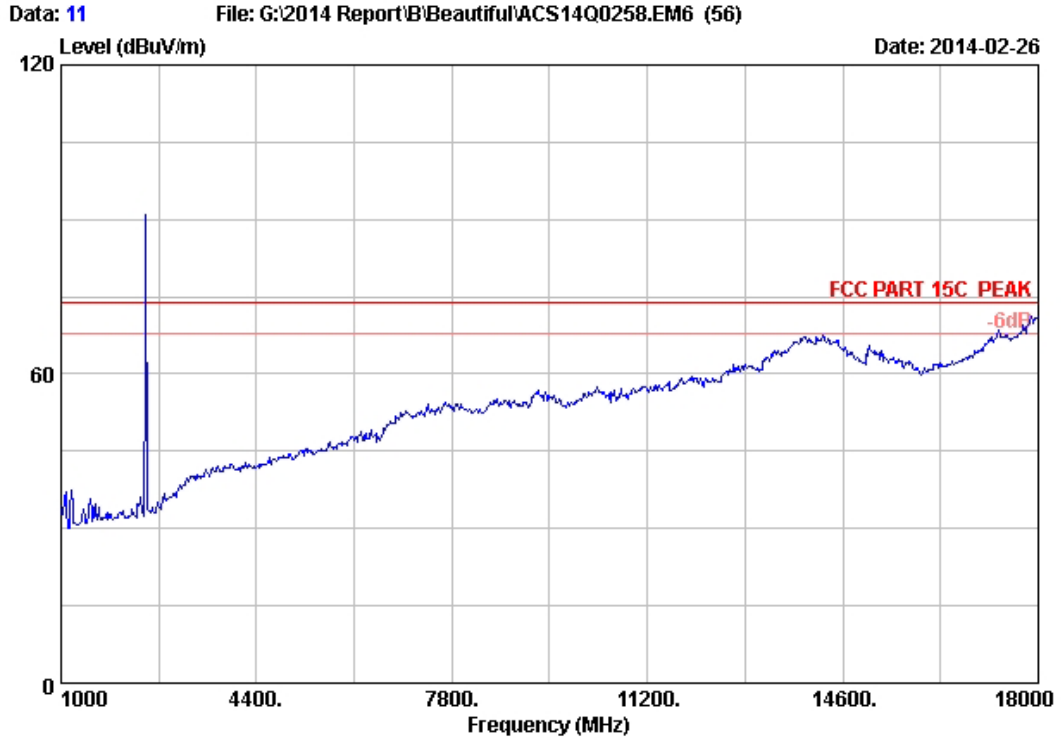
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 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2441Hz Tx
 M/N : NS-SB314



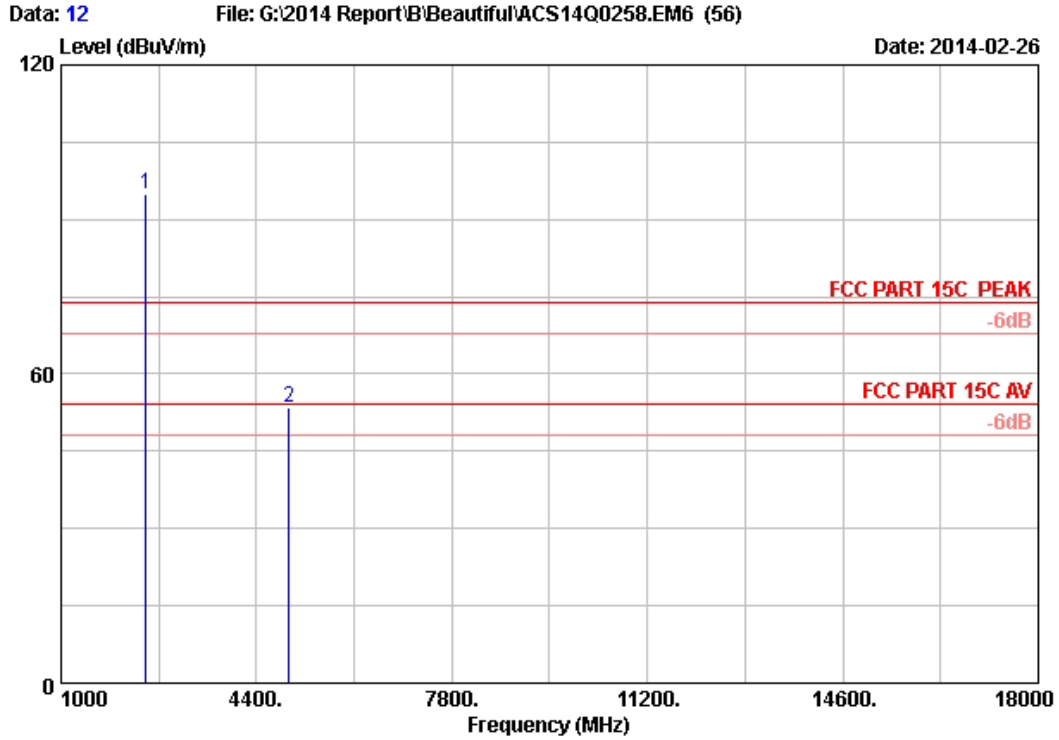
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2441Hz Tx
 M/N : NS-SB314

No.	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	23.75	5.86	35.70	97.53	91.44	74.00	-17.44	Peak
2	4882.000	31.88	8.64	35.70	48.12	52.94	74.00	21.06	Peak

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



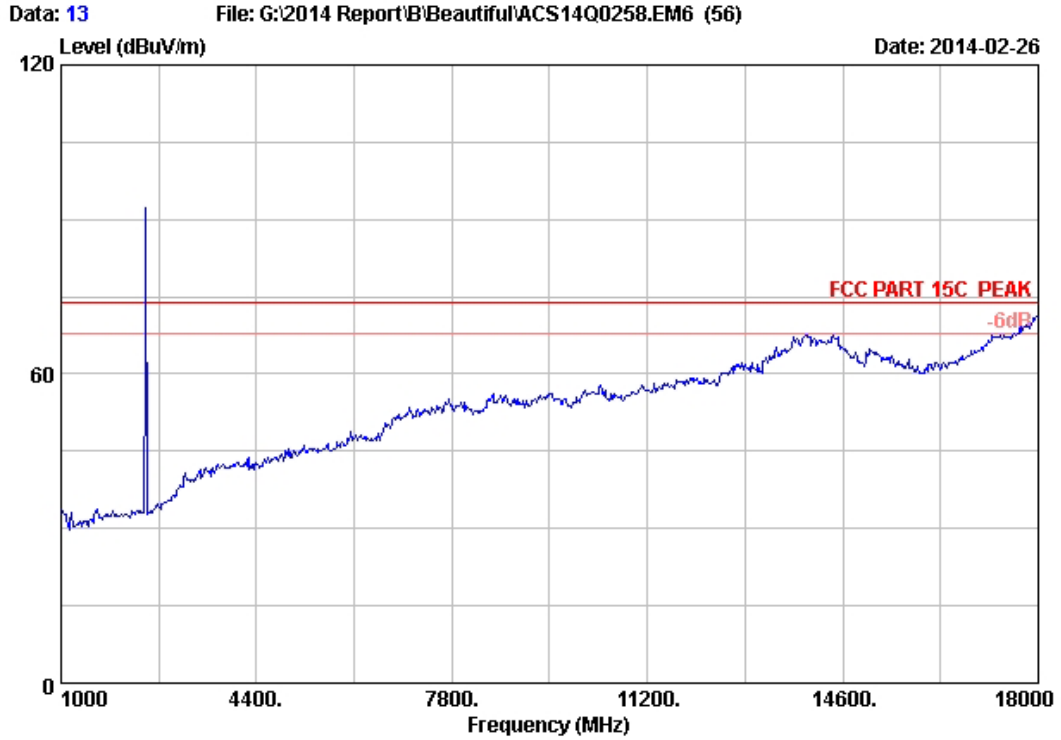
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 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2480Hz Tx
 M/N : NS-SB314



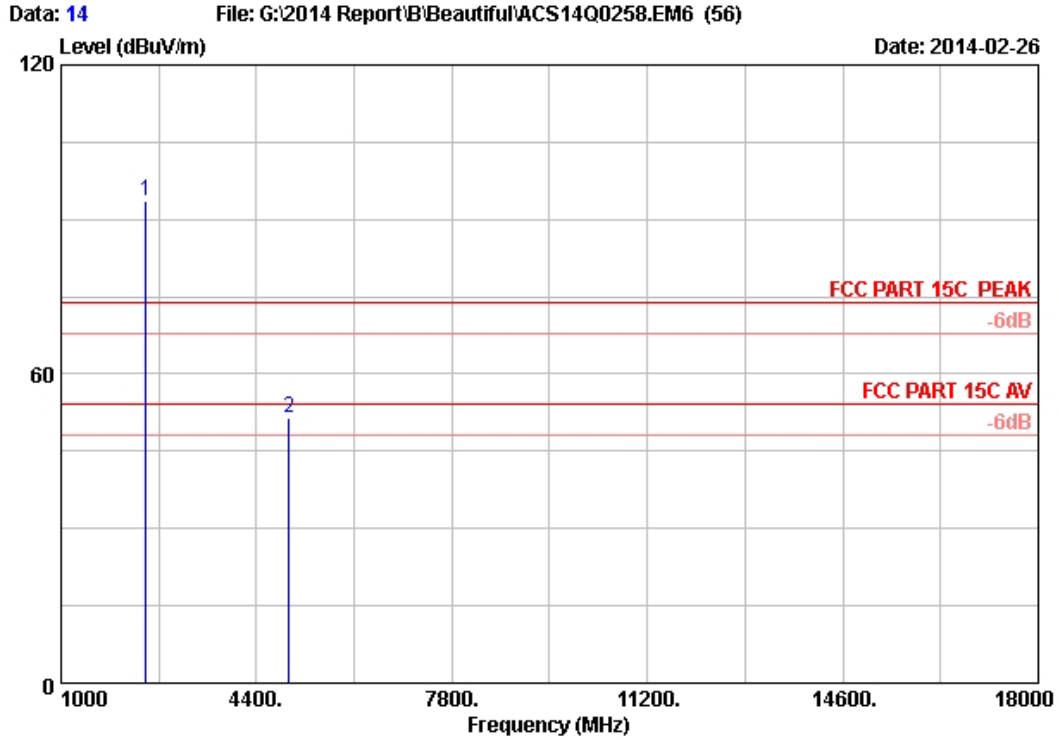
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 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2480Hz Tx
 M/N : NS-SB314

No.	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	23.72	5.91	35.70	100.87	94.80	74.00	-20.80	Peak
2	4960.000	32.09	8.72	35.70	48.45	53.56	74.00	20.44	Peak

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



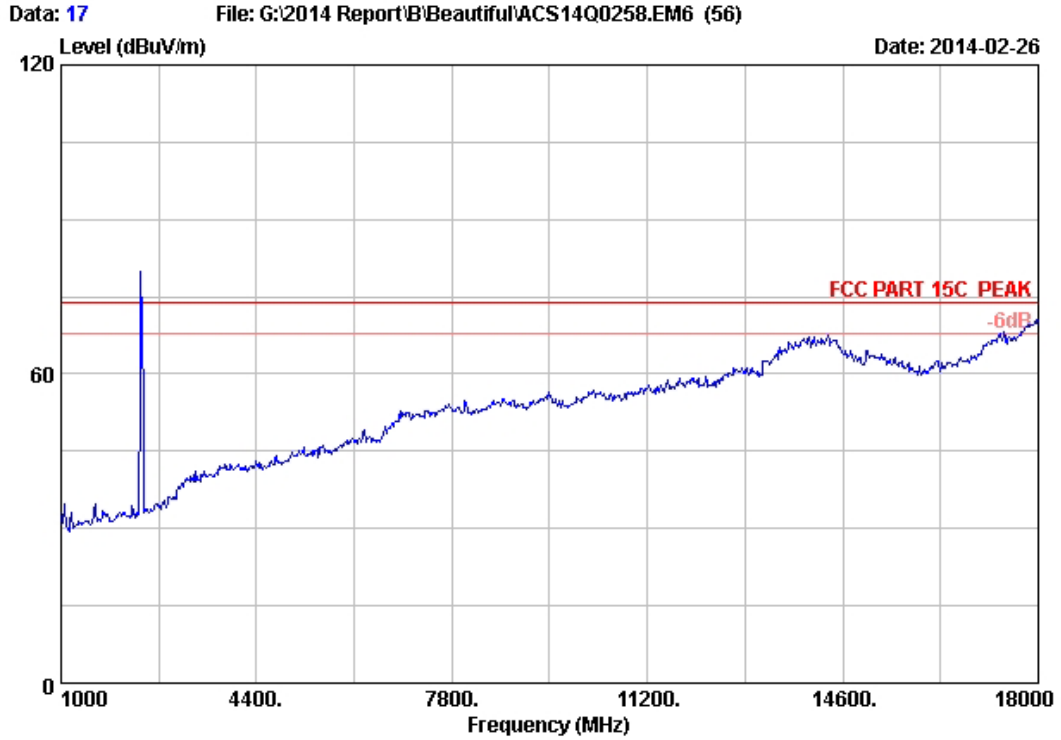
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Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2480Hz Tx
M/N : NS-SB314



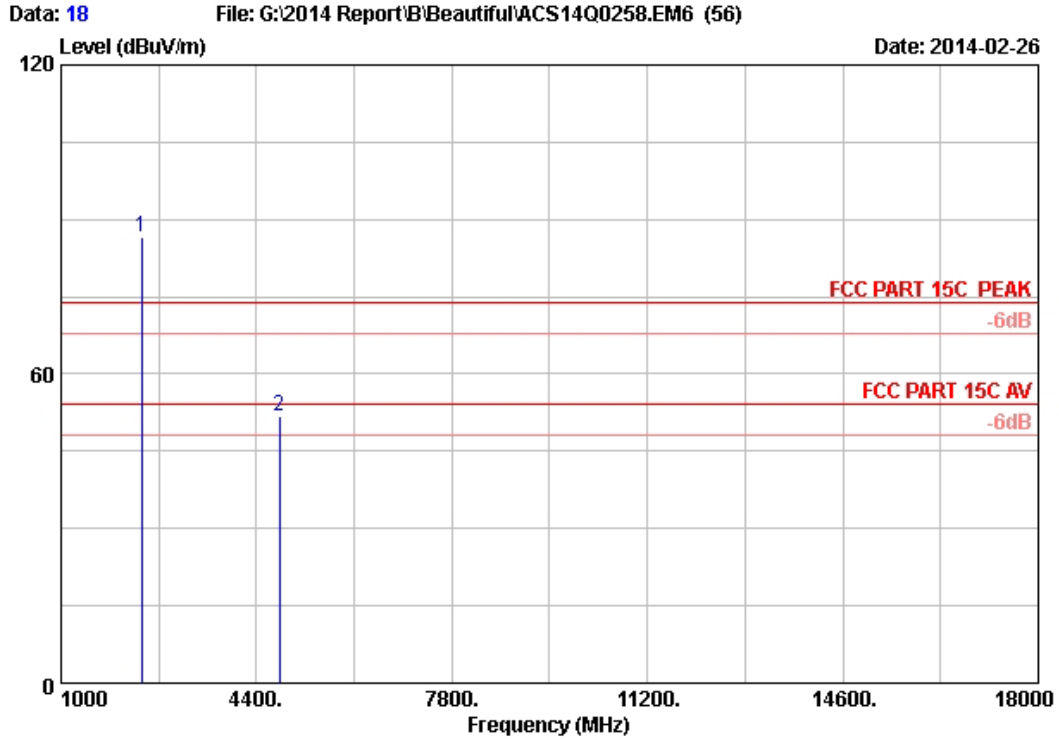
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2480Hz Tx
 M/N : NS-SB314

No.	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	23.72	5.91	35.70	99.56	93.49	74.00	-19.49	Peak
2	4960.000	32.09	8.72	35.70	46.48	51.59	74.00	22.41	Peak

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



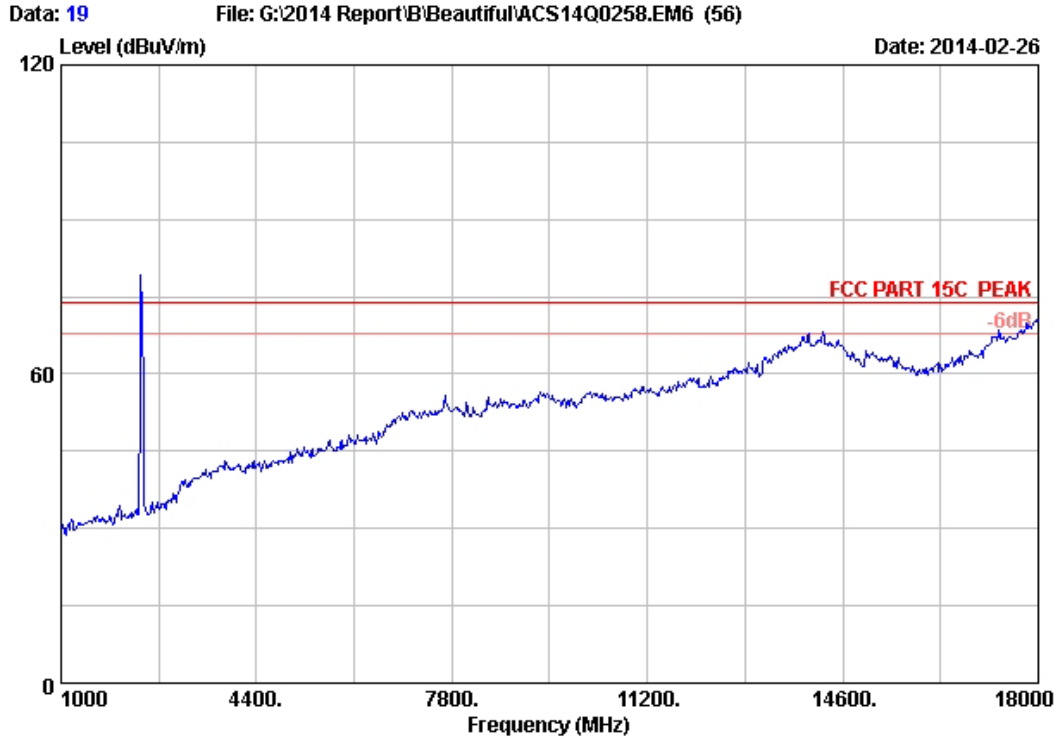
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Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : 8-DPSK 2402Hz Tx
M/N : NS-SB314



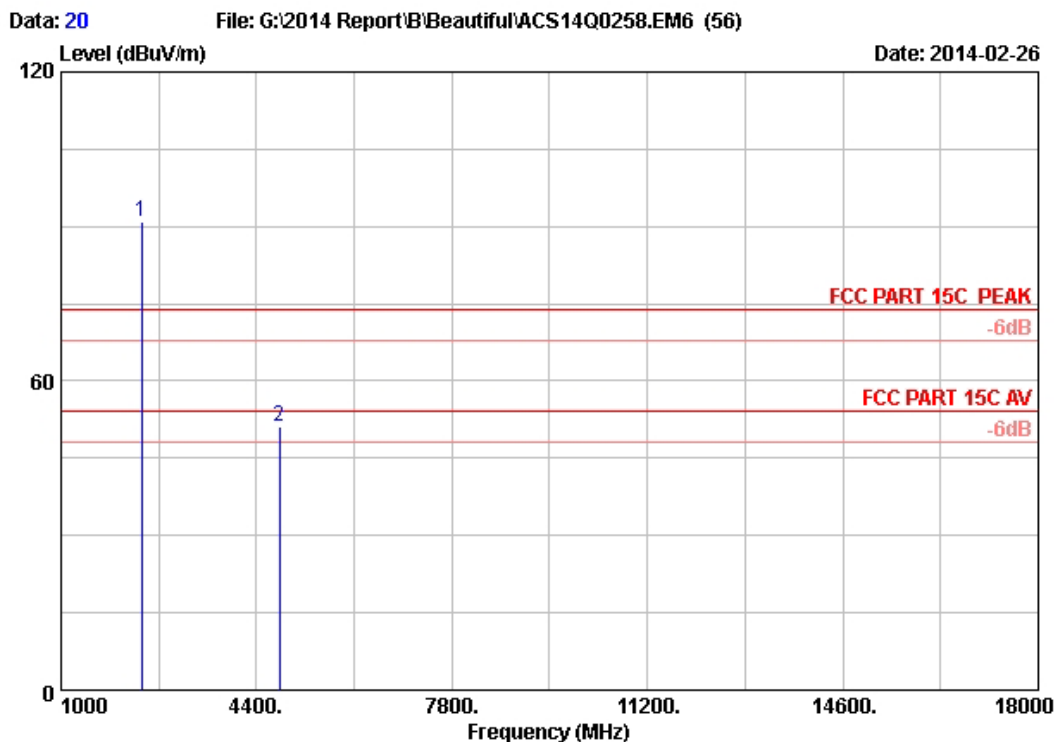
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402Hz Tx
 M/N : NS-SB314

No.	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	23.79	5.80	35.70	92.56	86.45	74.00	-12.45	Peak
2	4804.000	31.67	8.56	35.70	47.36	51.89	74.00	22.11	Peak

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



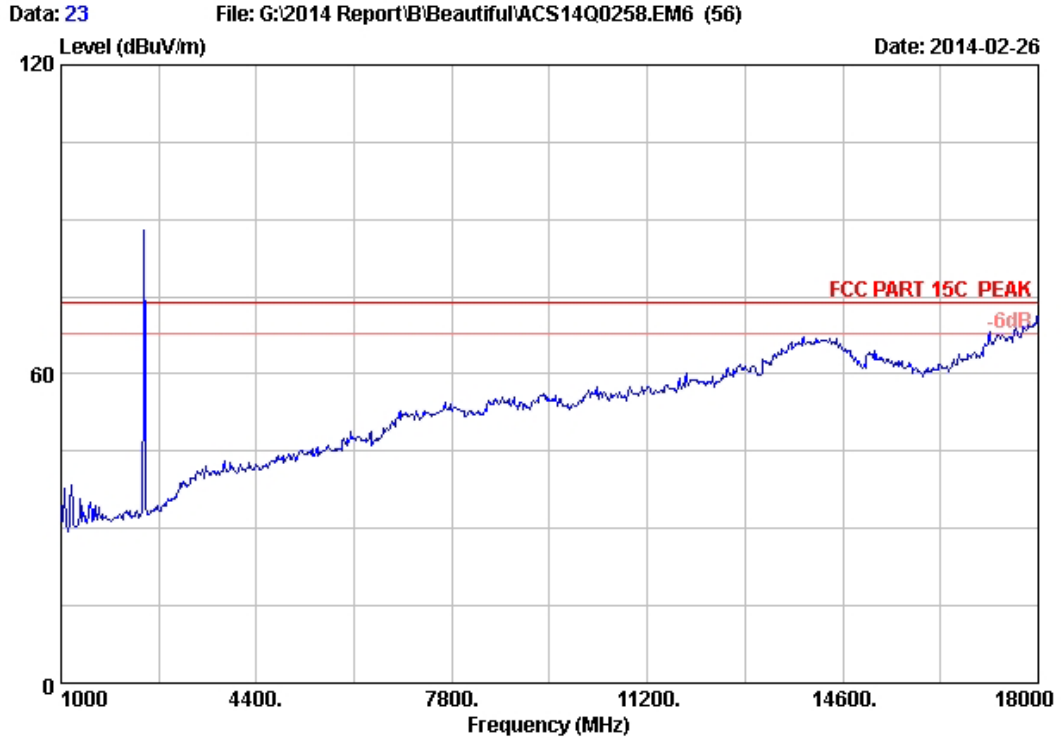
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402Hz Tx
 M/N : NS-SB314



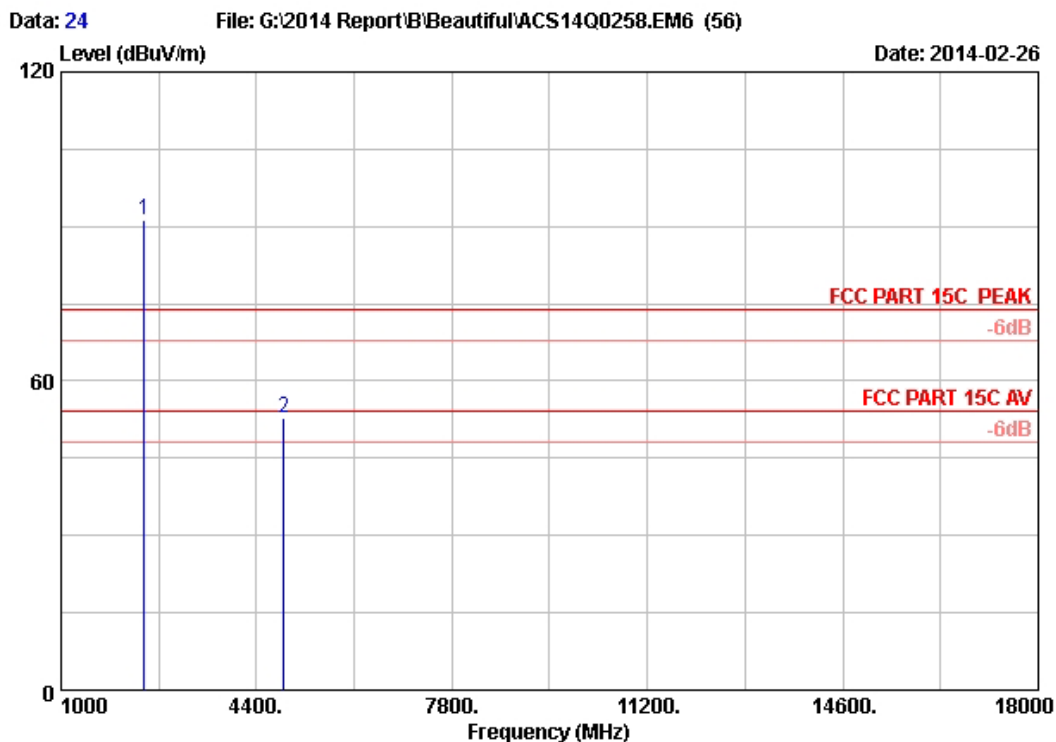
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Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : 8-DPSK 2402Hz Tx
M/N : NS-SB314

No.	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	23.79	5.80	35.70	96.86	90.75	74.00	-16.75	Peak
2	4804.000	31.67	8.56	35.70	46.65	51.18	74.00	22.82	Peak

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



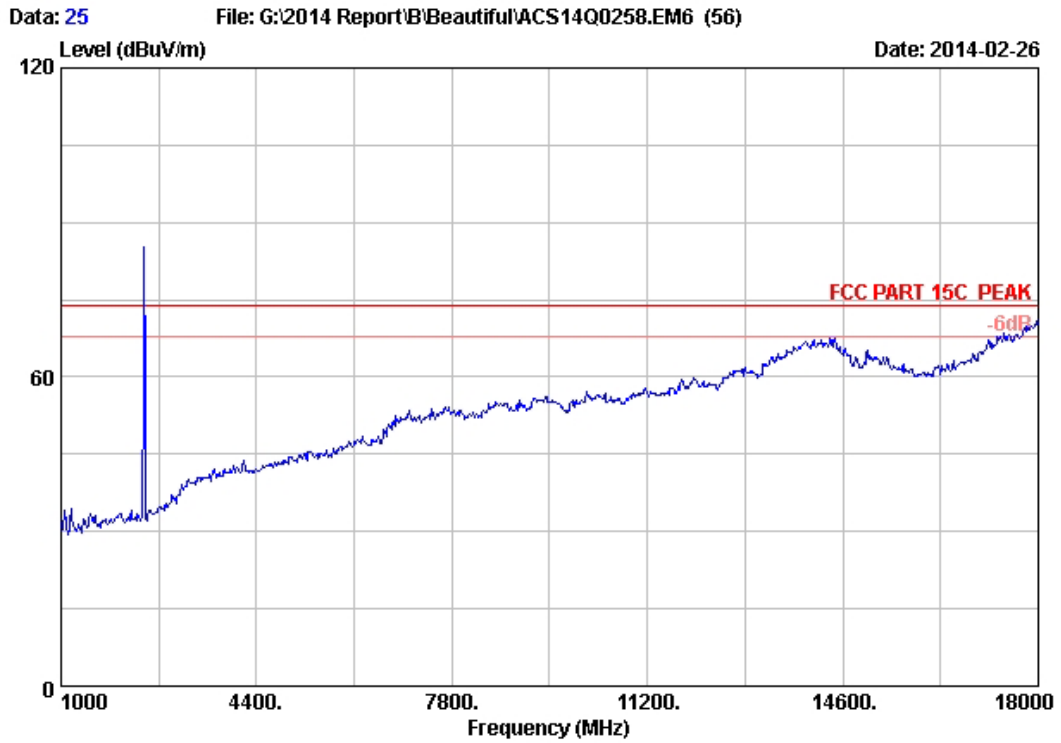
Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : 8-DPSK 2441Hz Tx
M/N : NS-SB314



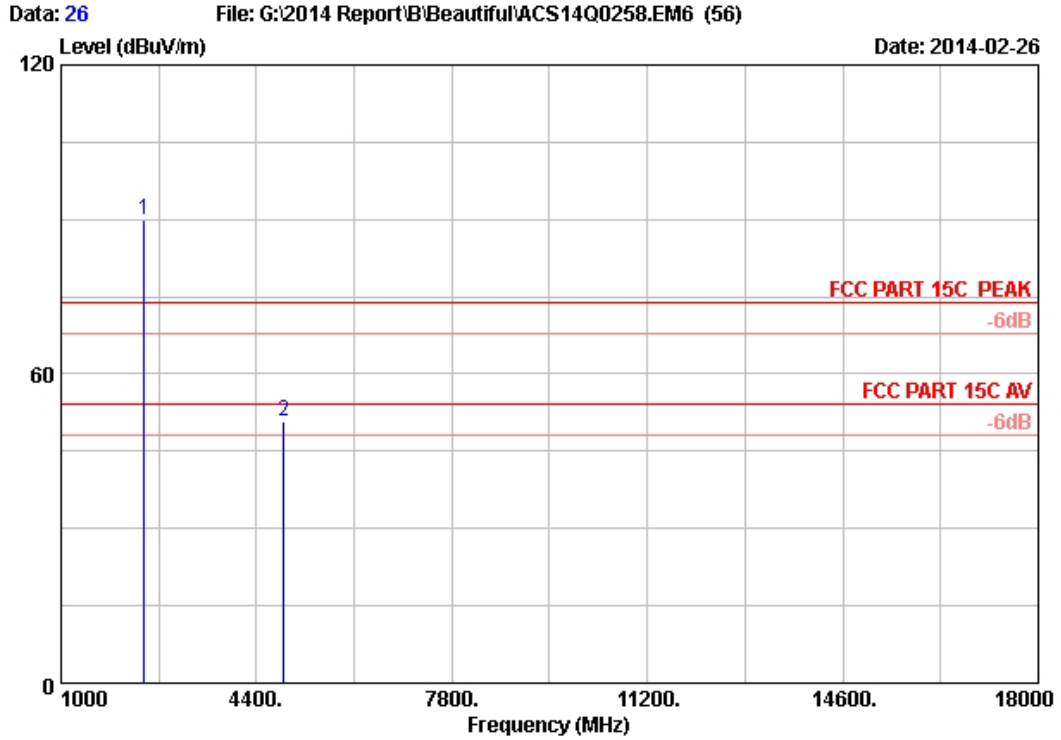
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2441Hz Tx
 M/N : NS-SB314

No.	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	23.75	5.86	35.70	97.26	91.17	74.00	-17.17	Peak
2	4882.000	31.88	8.64	35.70	48.03	52.85	74.00	21.15	Peak

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



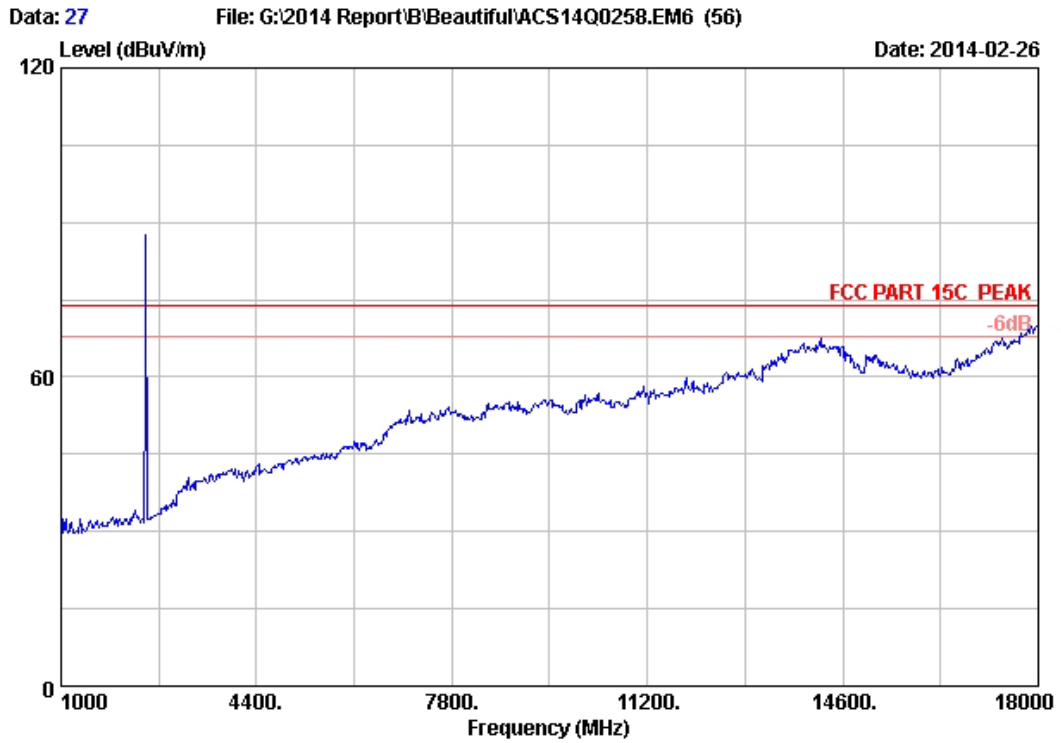
Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2441Hz Tx
 M/N : NS-SB314



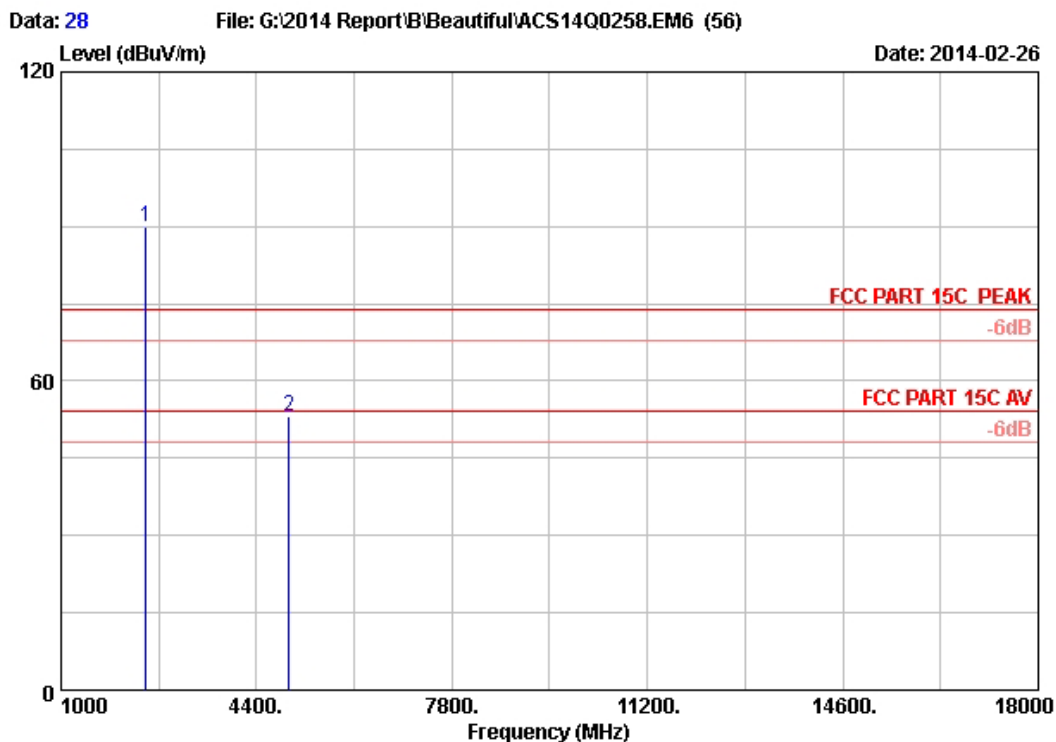
Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : 8-DPSK 2441Hz Tx
M/N : NS-SB314

No.	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	23.75	5.86	35.70	95.86	89.77	74.00	-15.77	Peak
2	4882.000	31.88	8.64	35.70	46.10	50.92	74.00	23.08	Peak

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



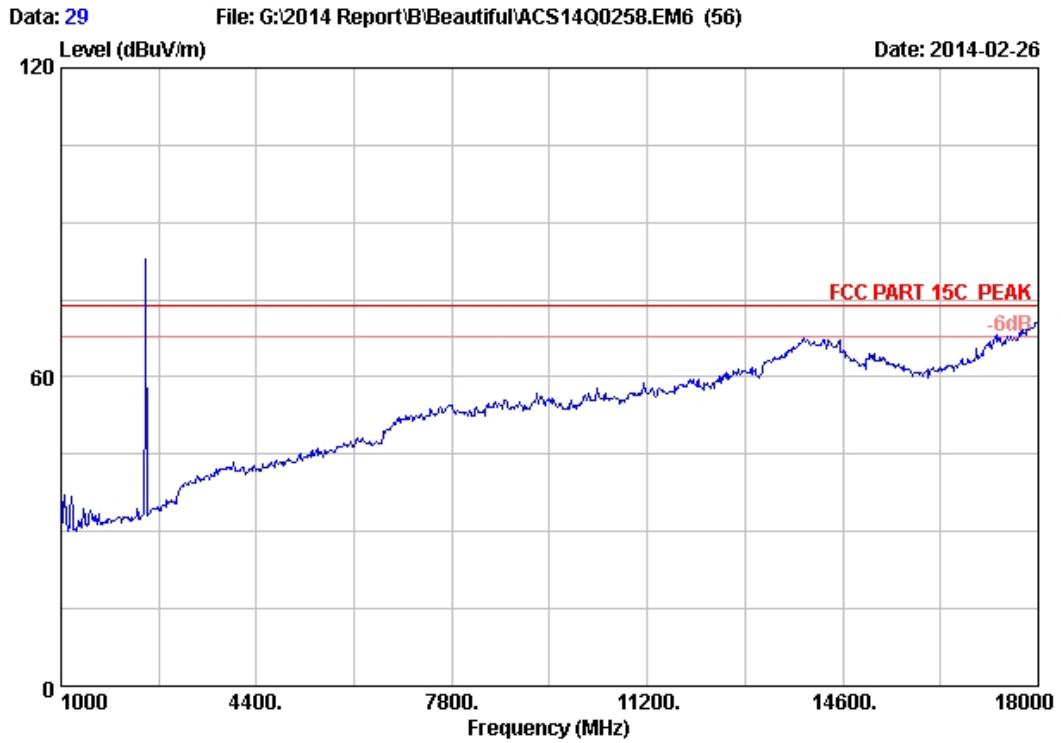
Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : 8-DPSK 2480Hz Tx
M/N : NS-SB314



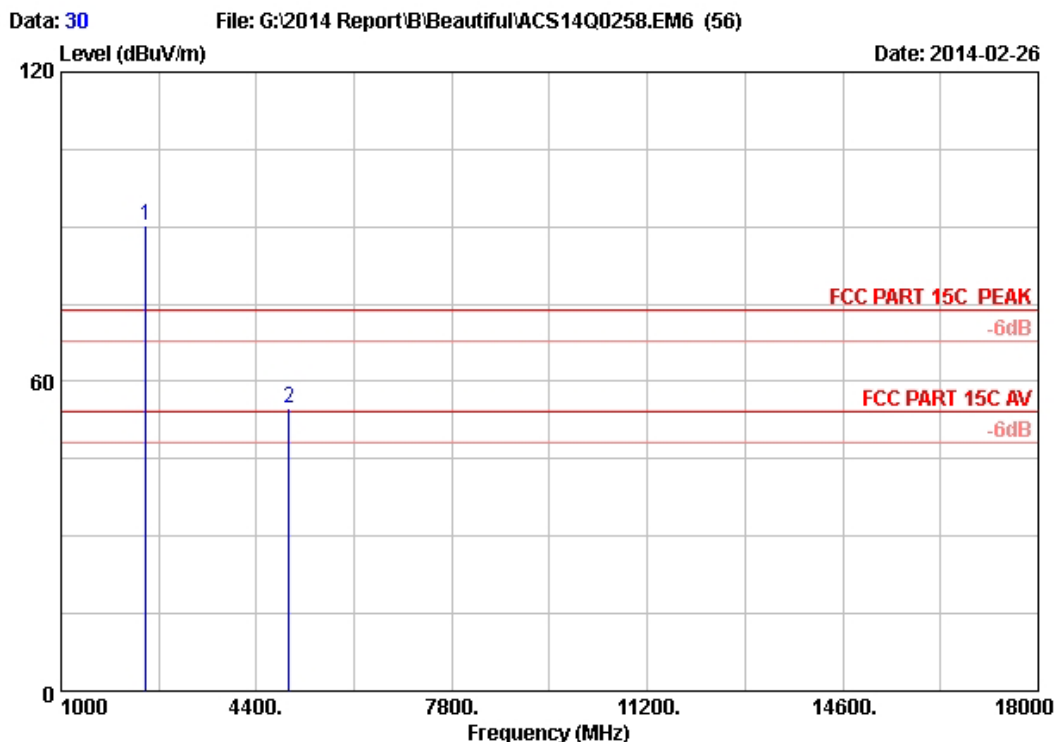
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480Hz Tx
 M/N : NS-SB314

No.	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	23.72	5.91	35.70	95.86	89.79	74.00	-15.79	Peak
2	4960.000	32.09	8.72	35.70	48.07	53.18	74.00	20.82	Peak

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



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480Hz Tx
 M/N : NS-SB314



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480Hz Tx
 M/N : NS-SB314

No.	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	23.72	5.91	35.70	96.24	90.17	74.00	-16.17	Peak
2	4960.000	32.09	8.72	35.70	49.56	54.67	74.00	19.33	Peak

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

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4960.000	54.67	9.00	45.67	54	Pass

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	1Year

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.

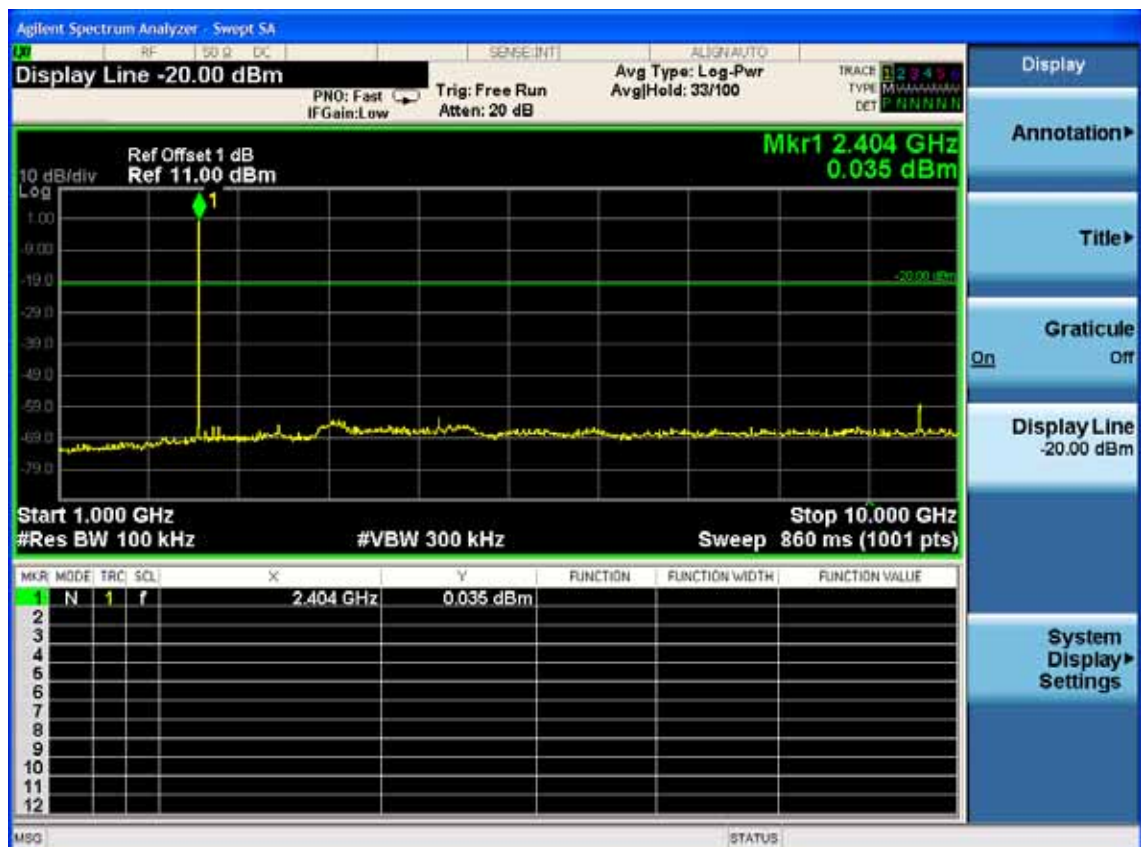
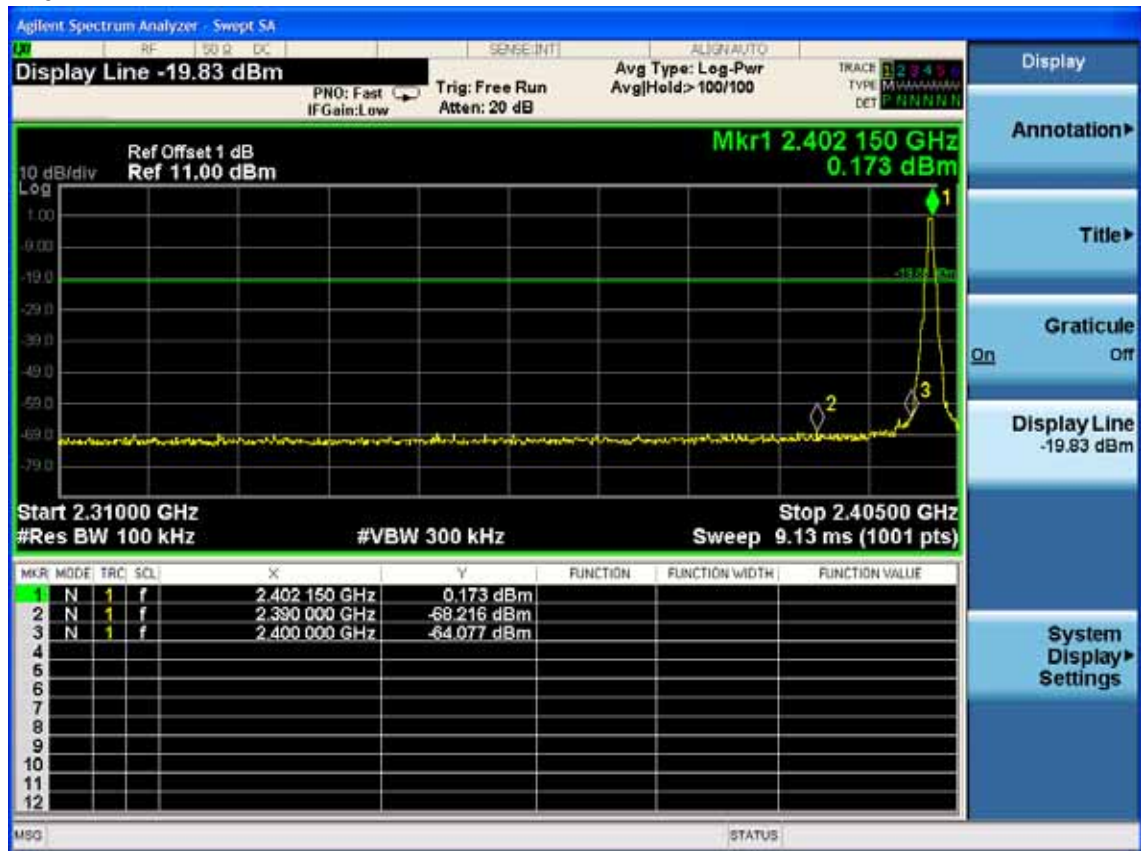
5.4.Test result

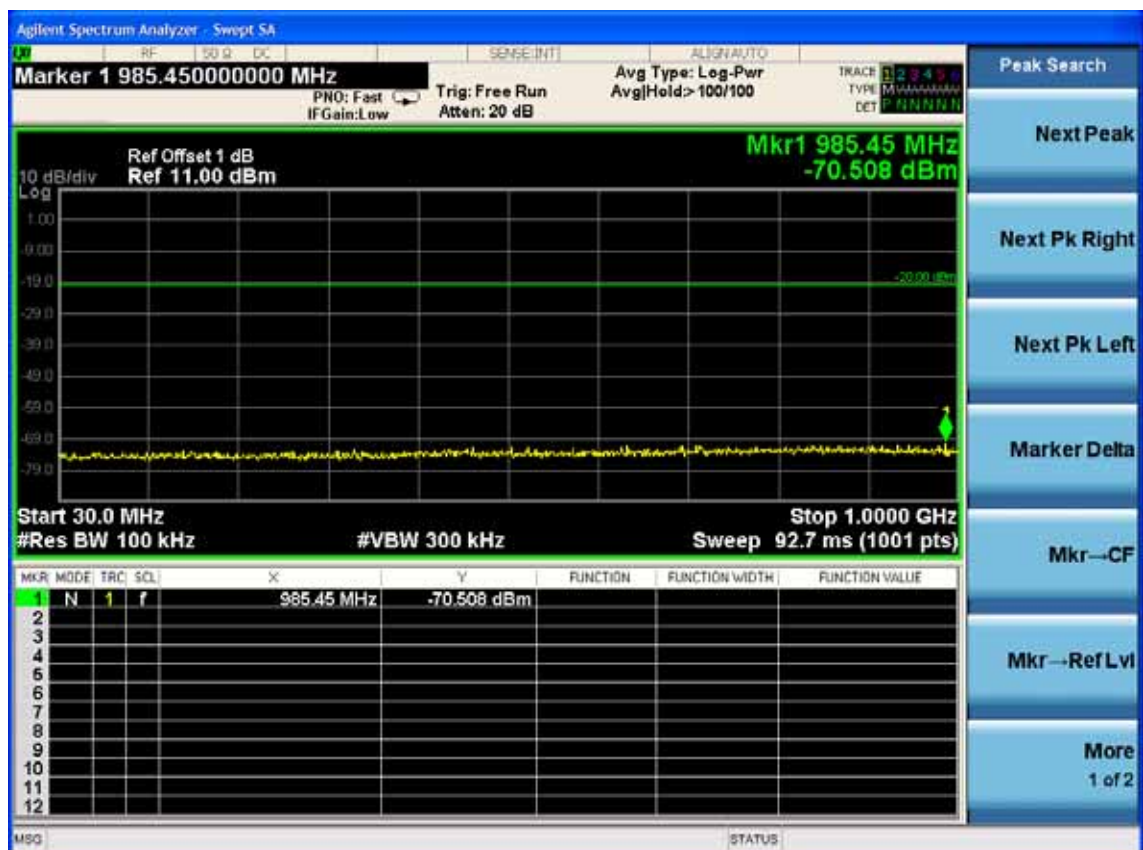
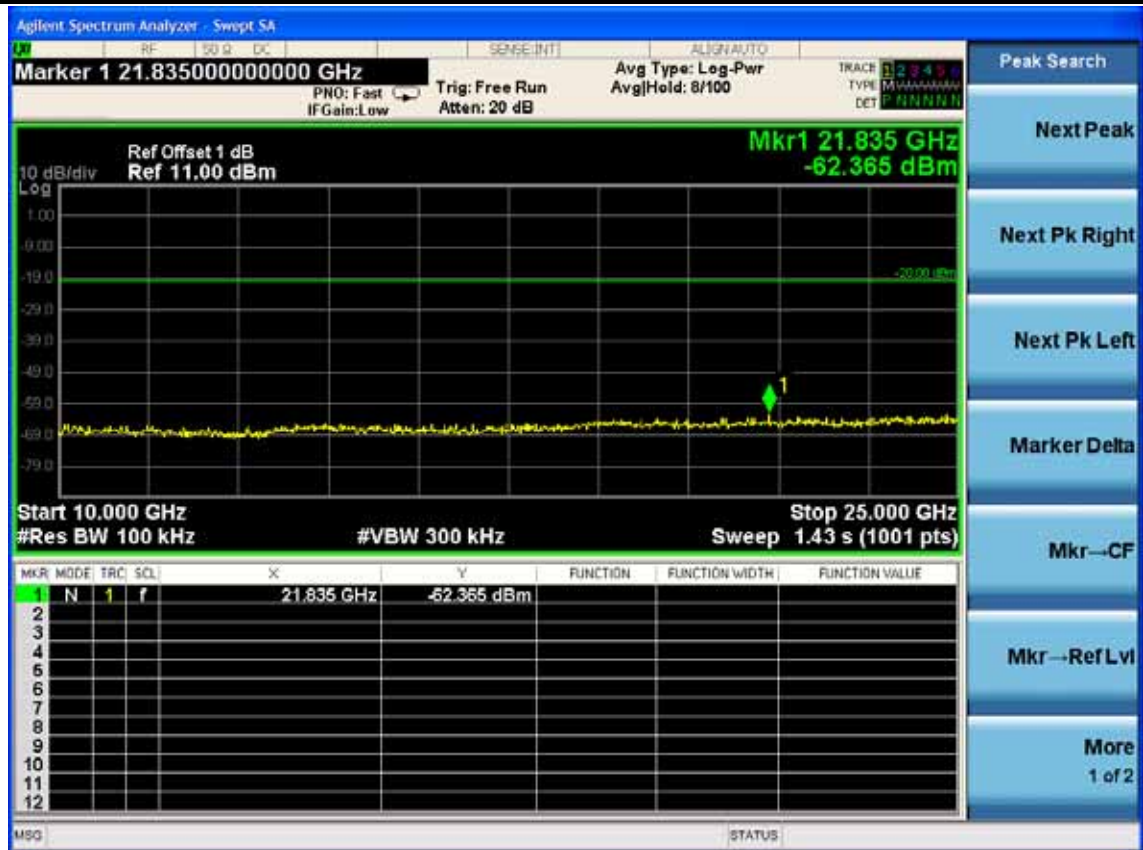
PASS (The testing data was attached in the next pages.)

Hopping Off

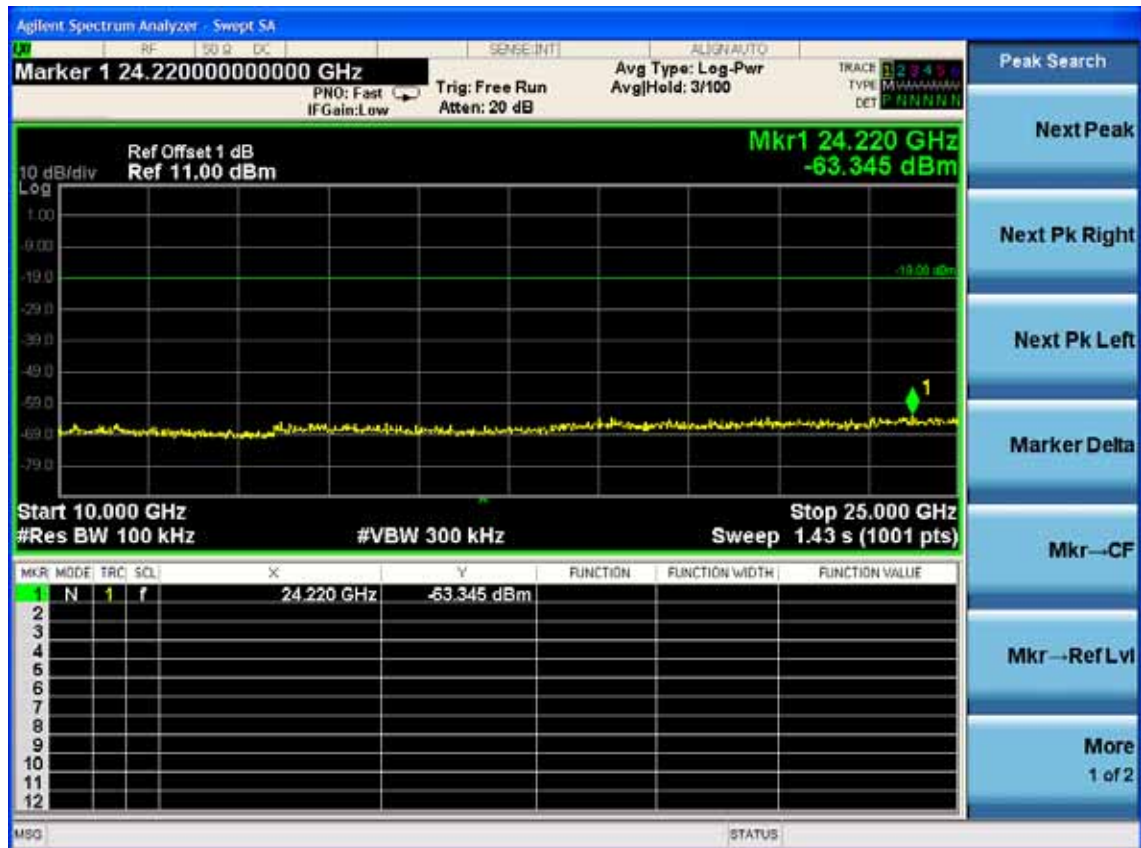
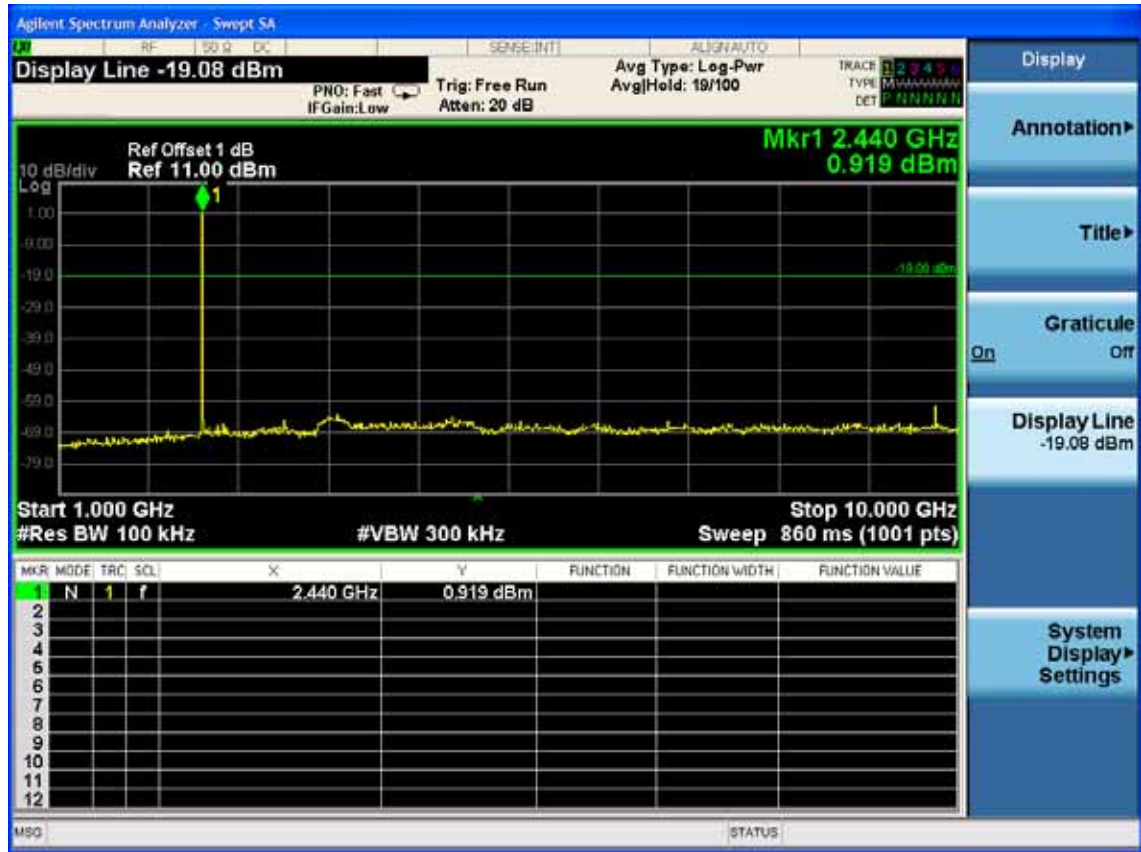
GFSK

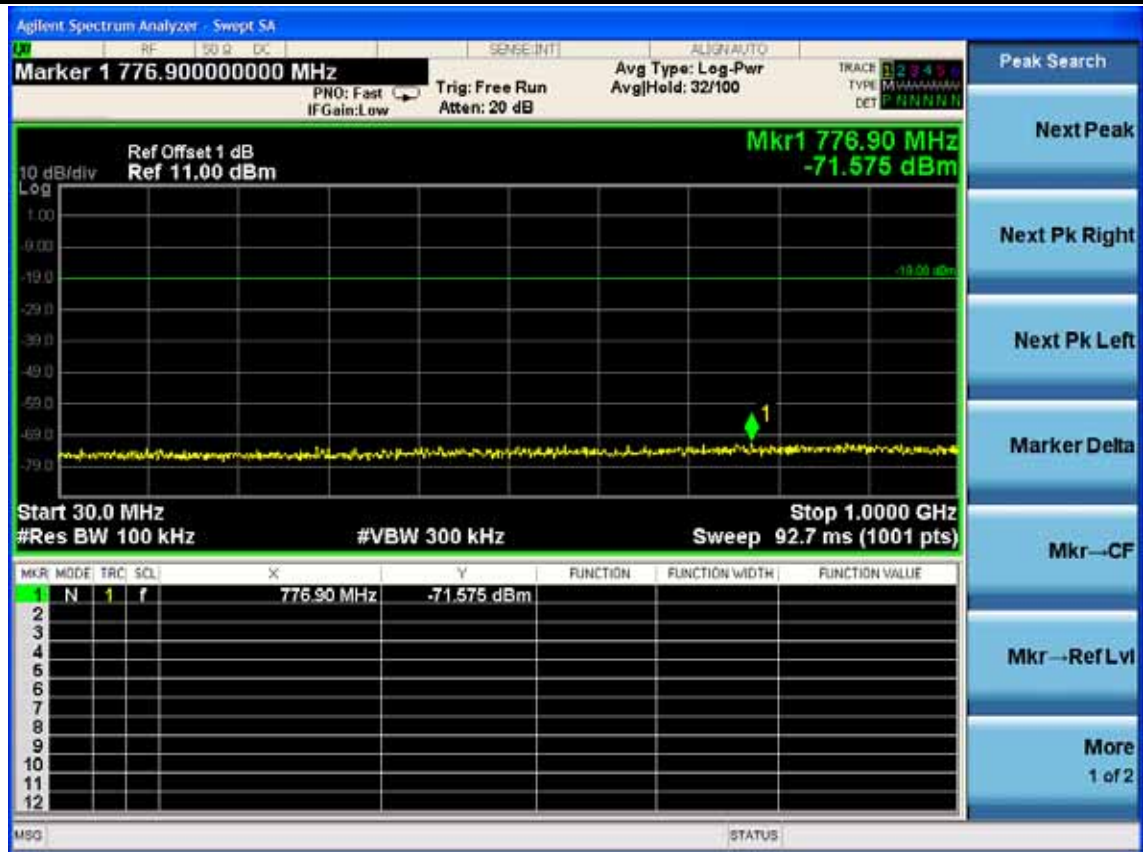
2402MHz



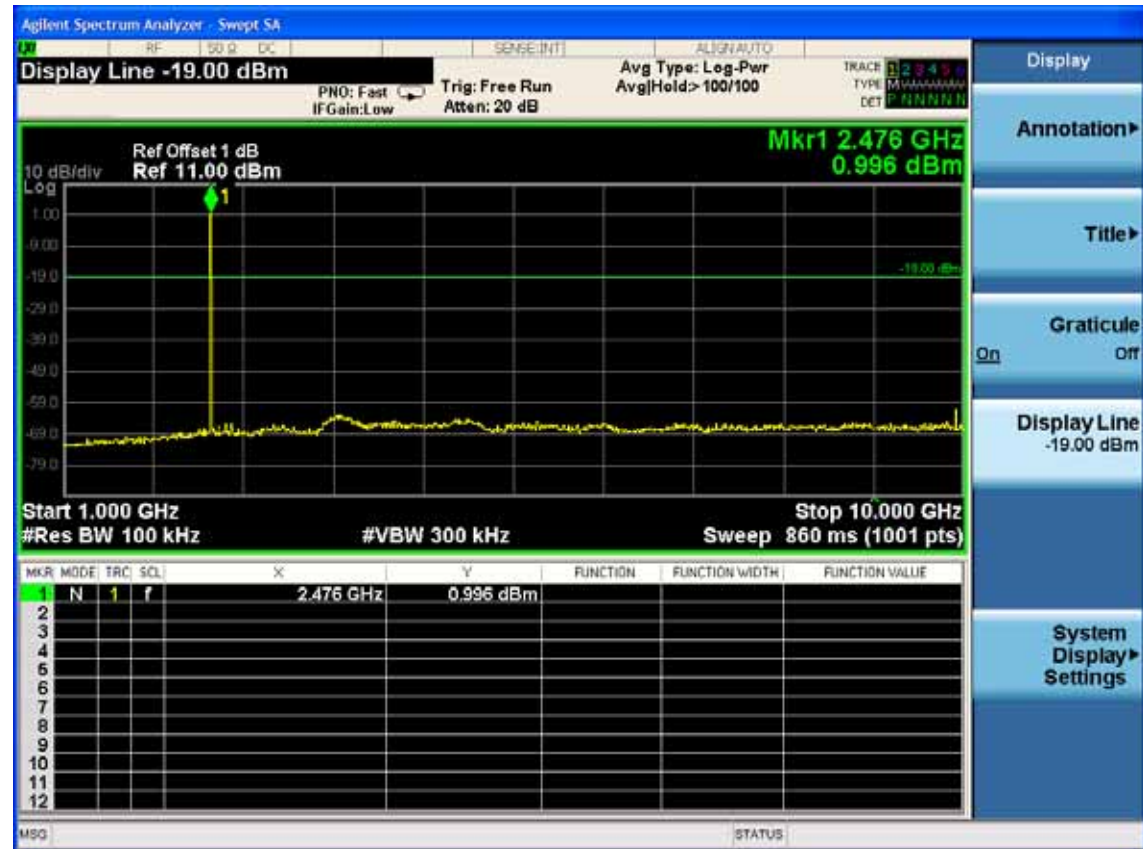


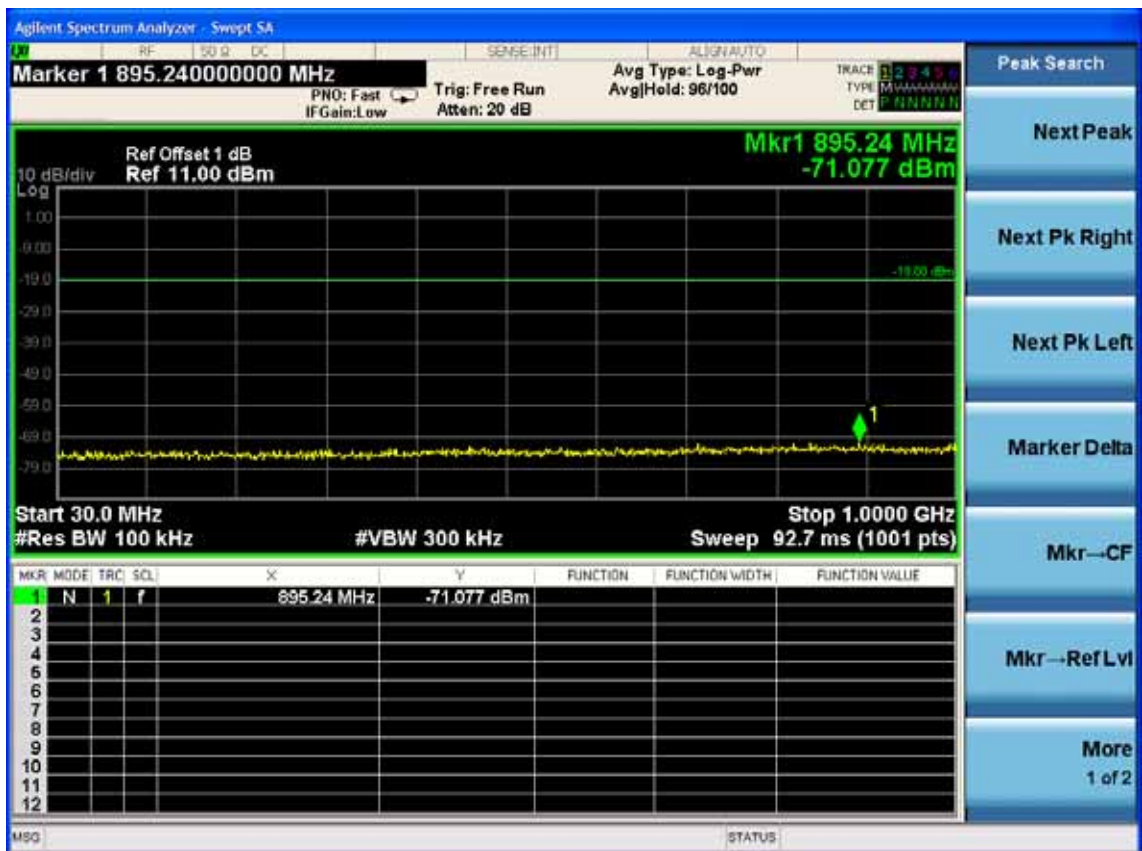
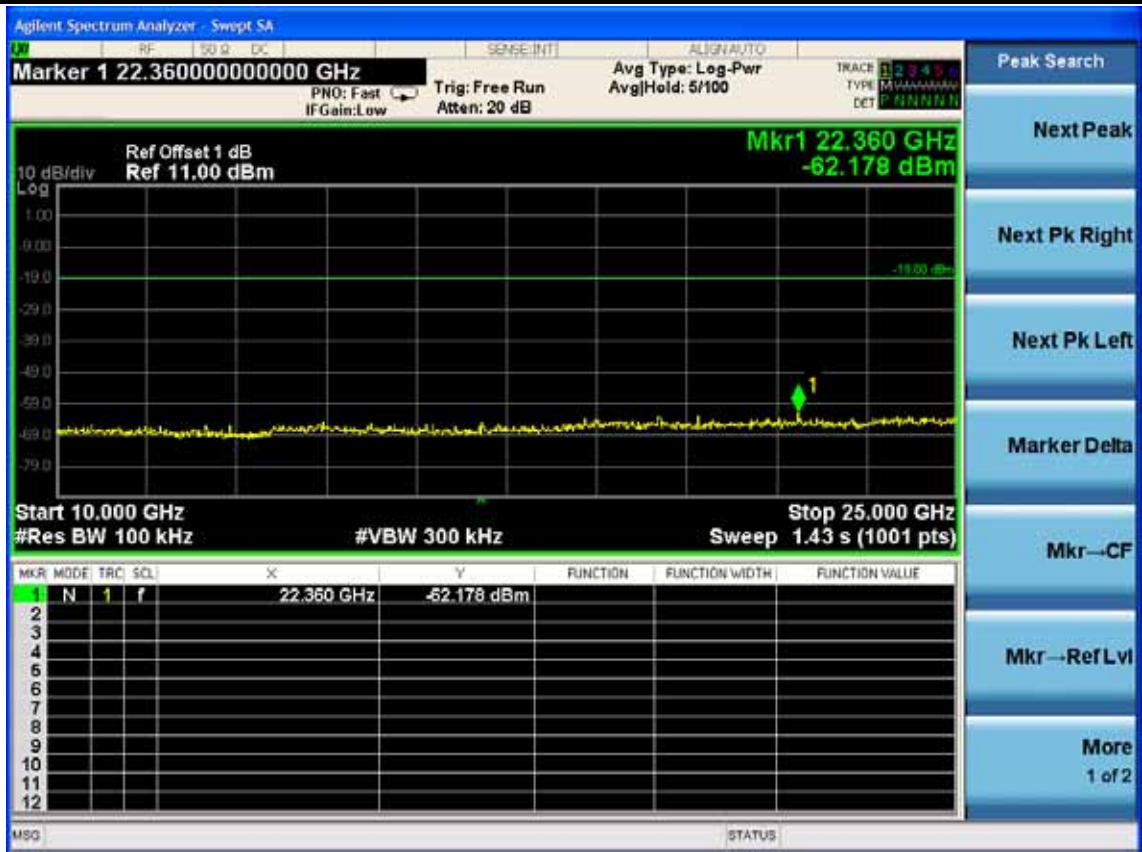
2441MHz

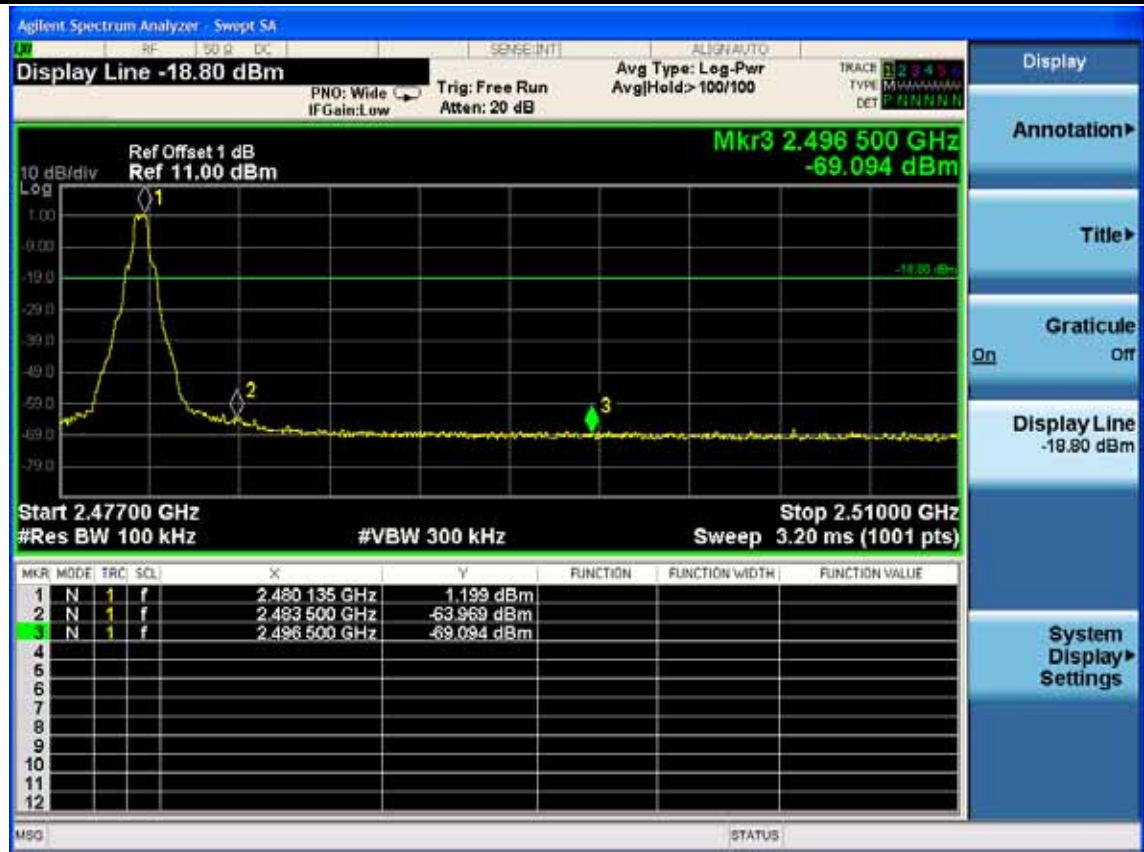




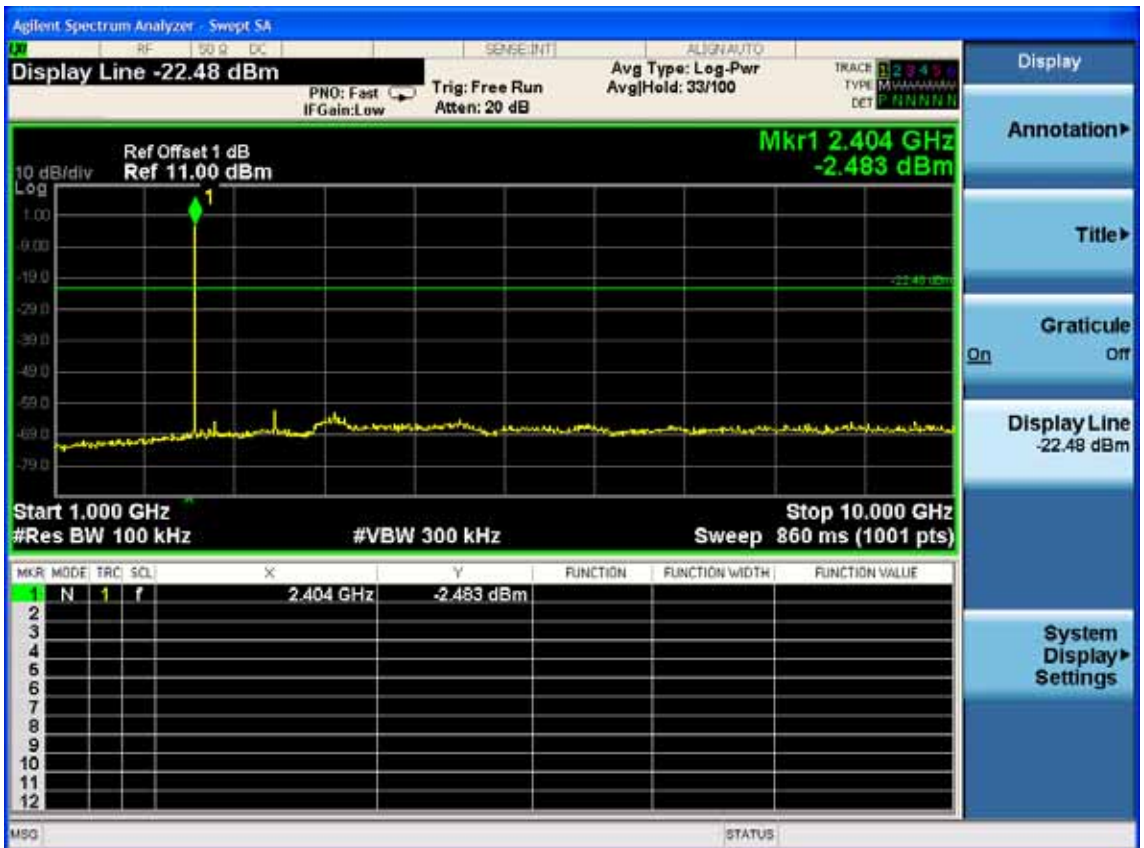
2480MHz

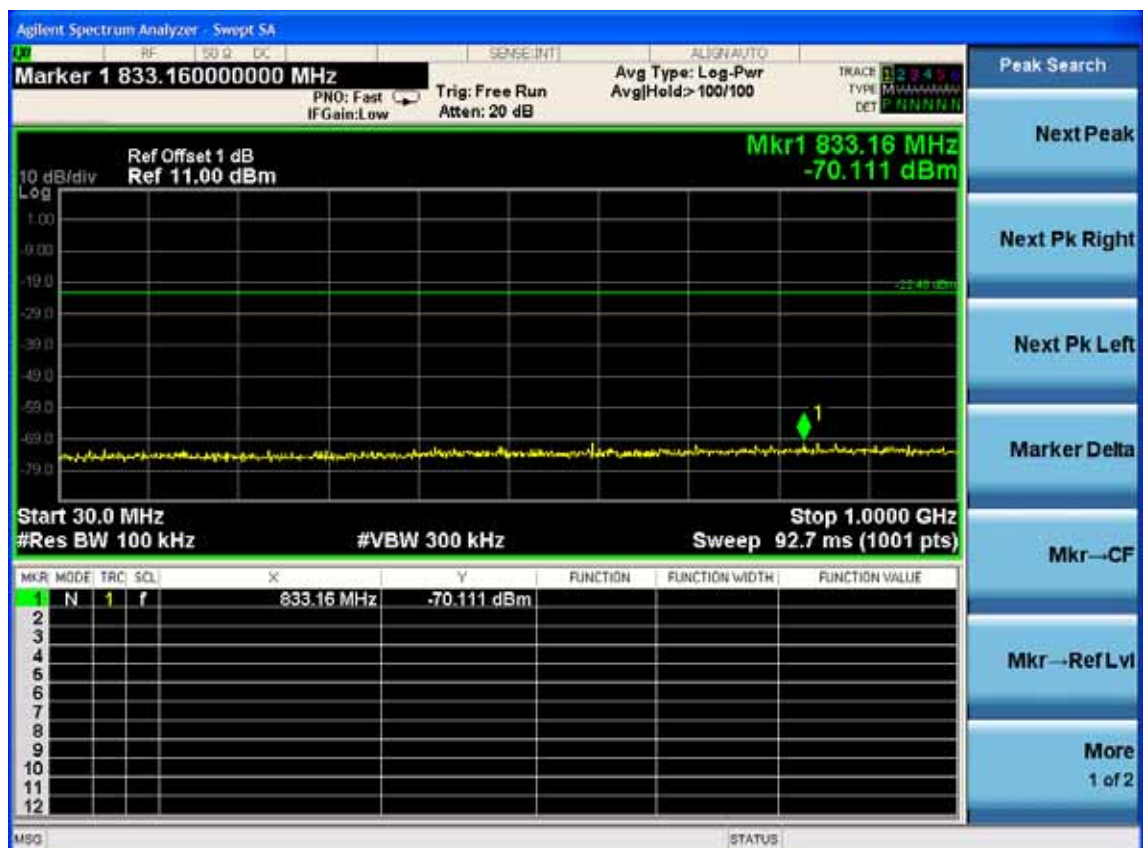
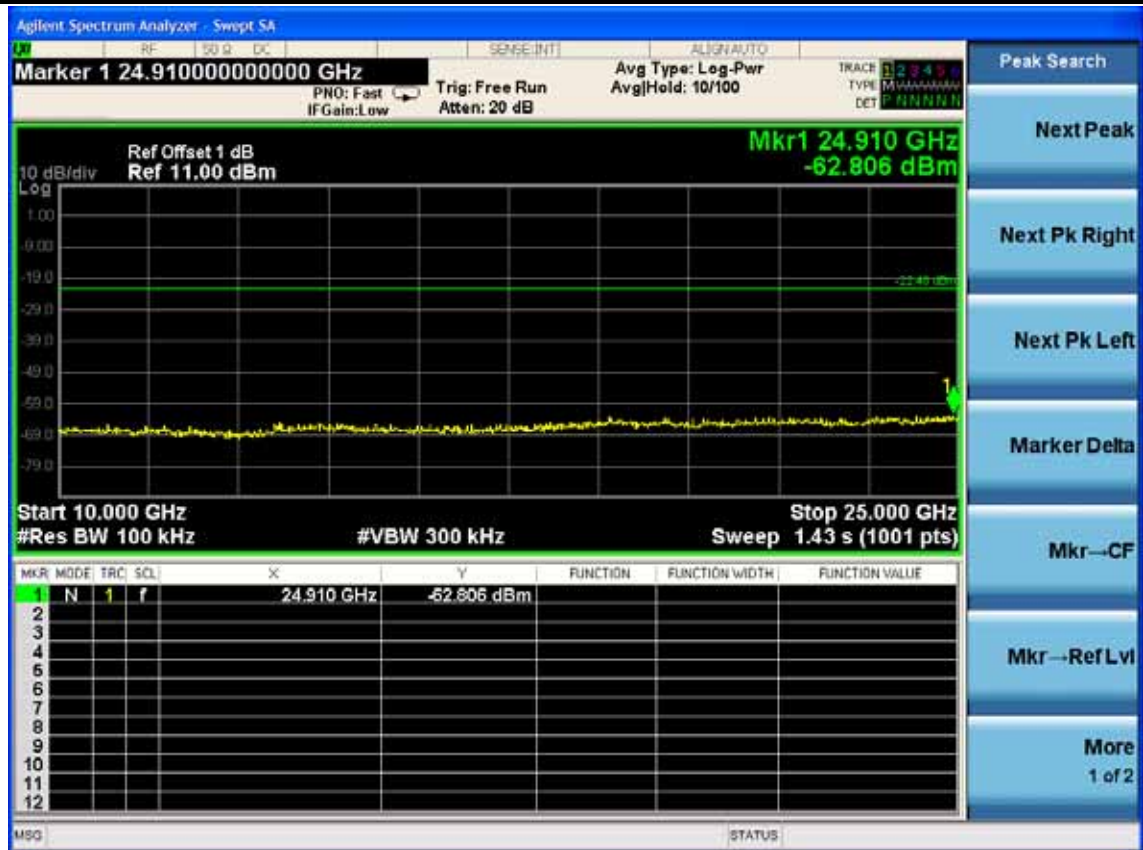


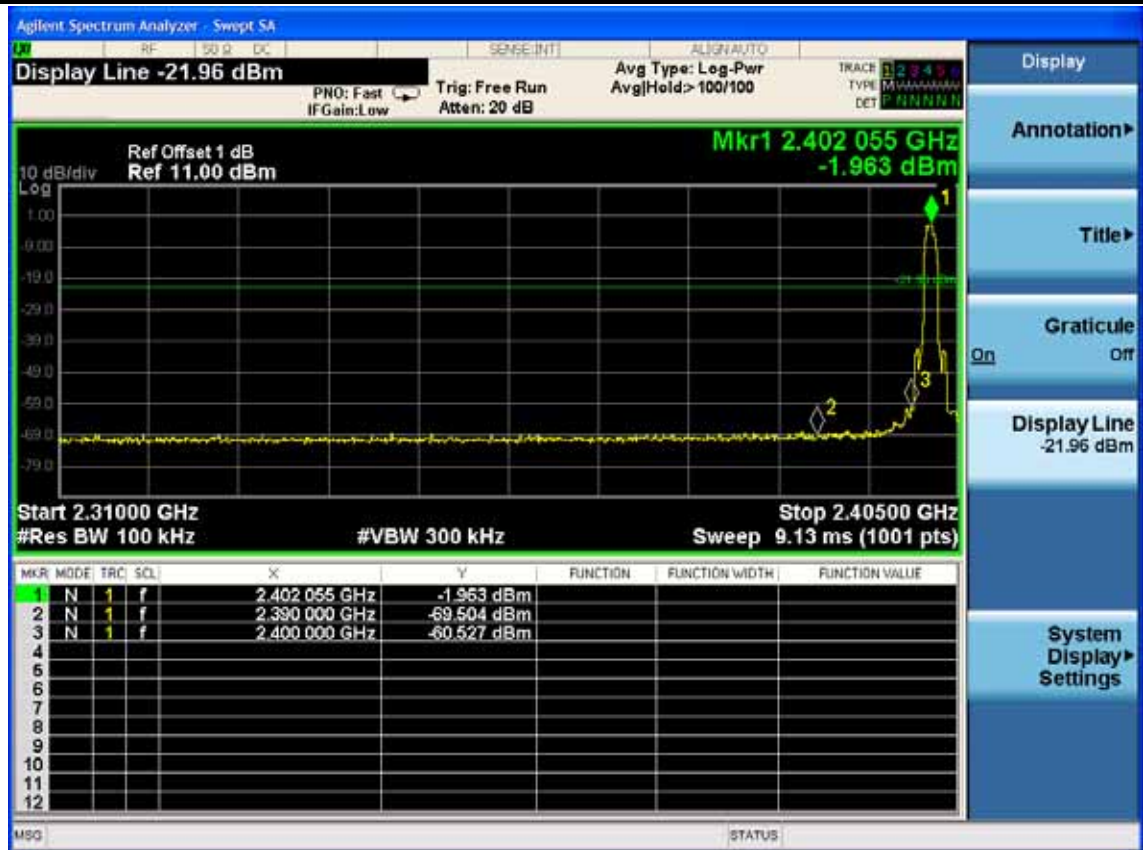




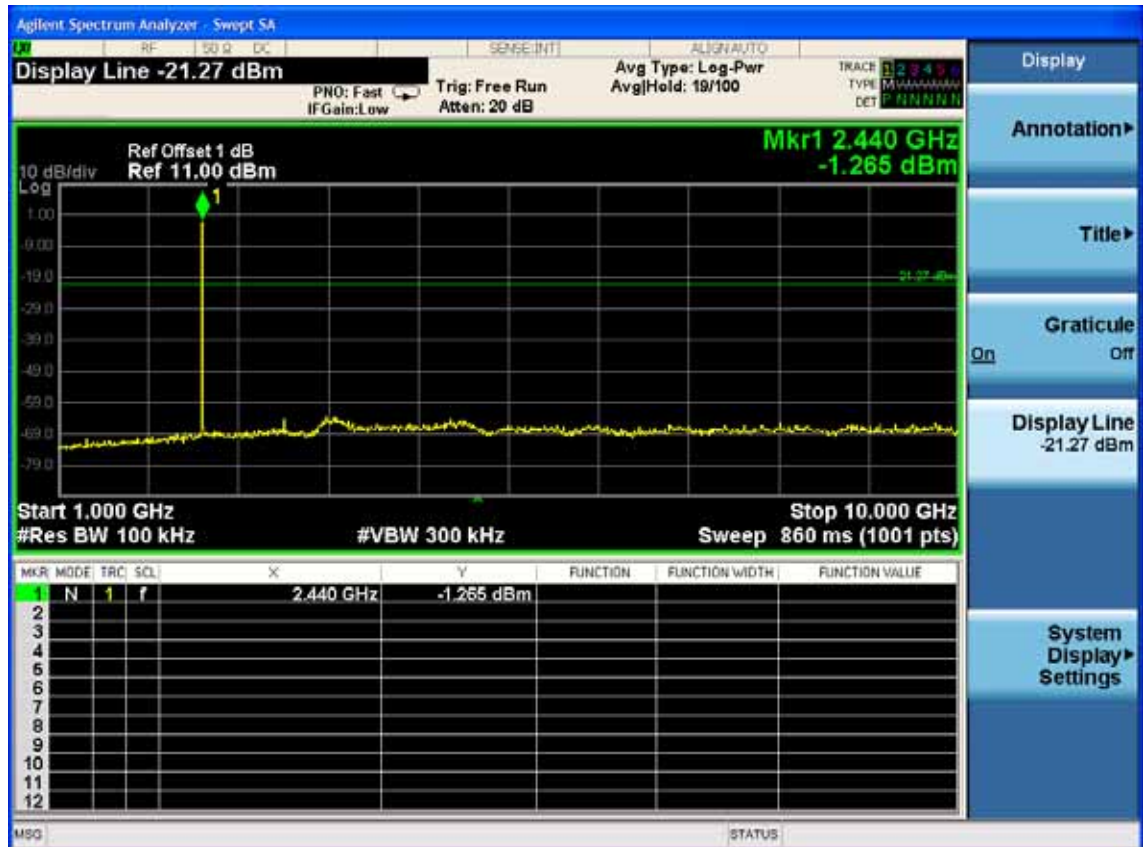
8-DPSK 2402MHz

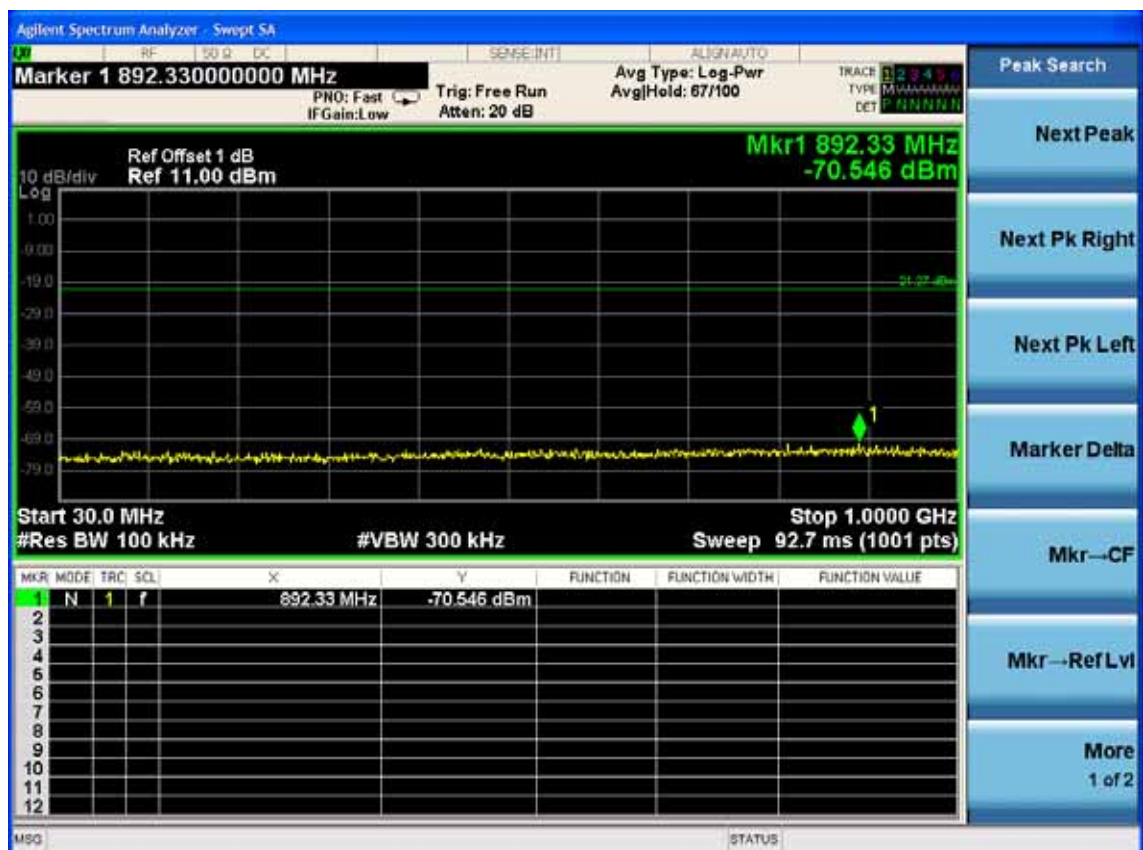
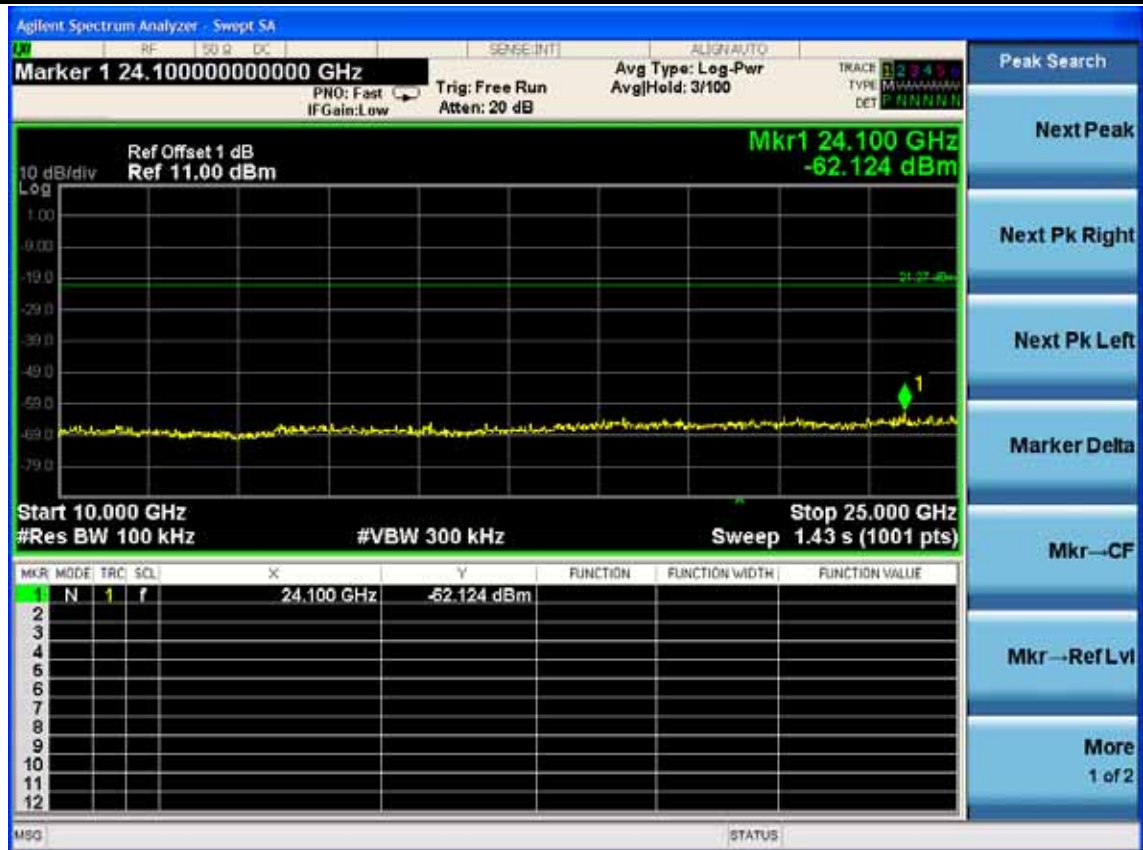




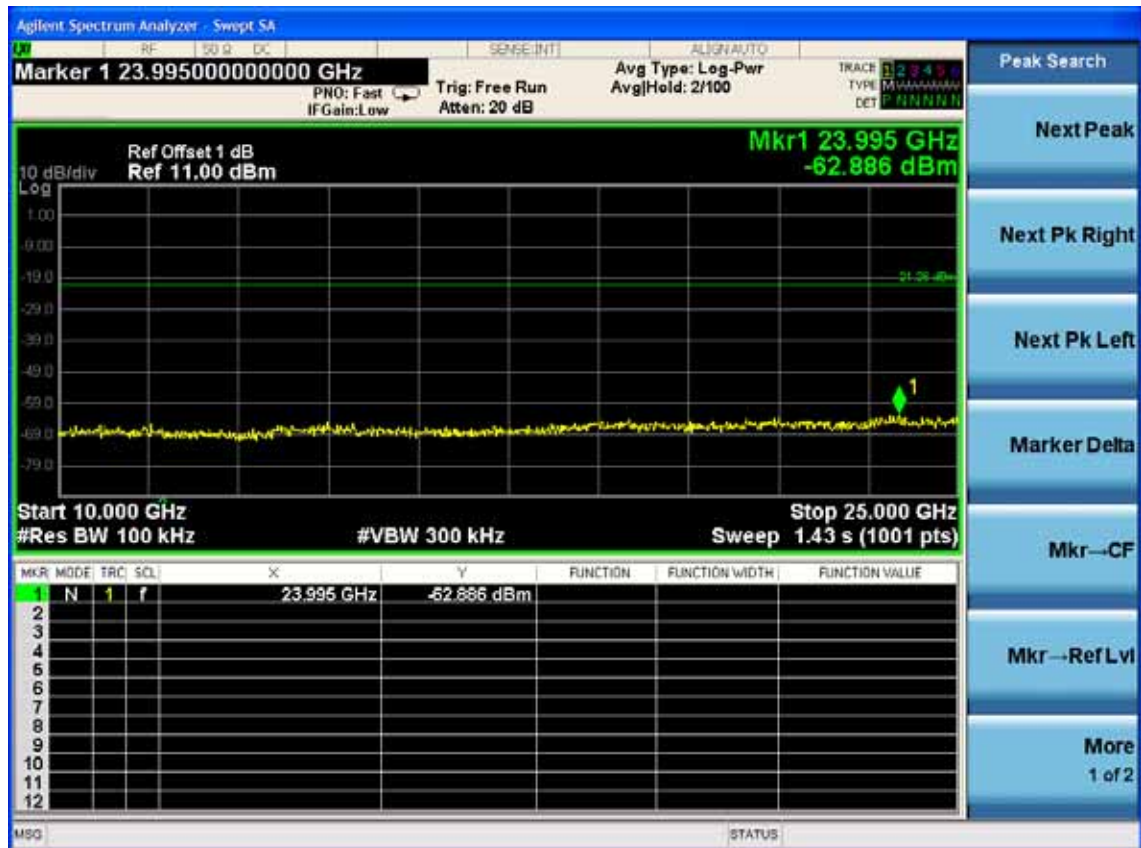
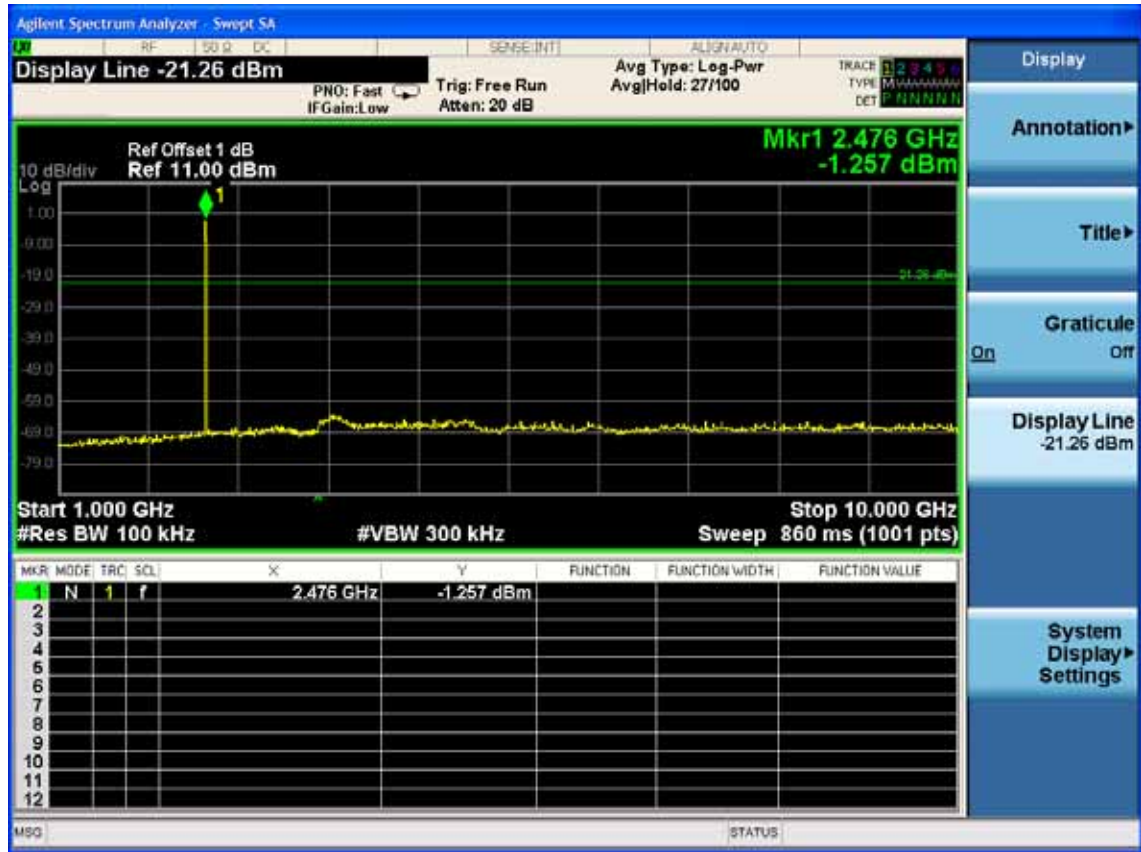


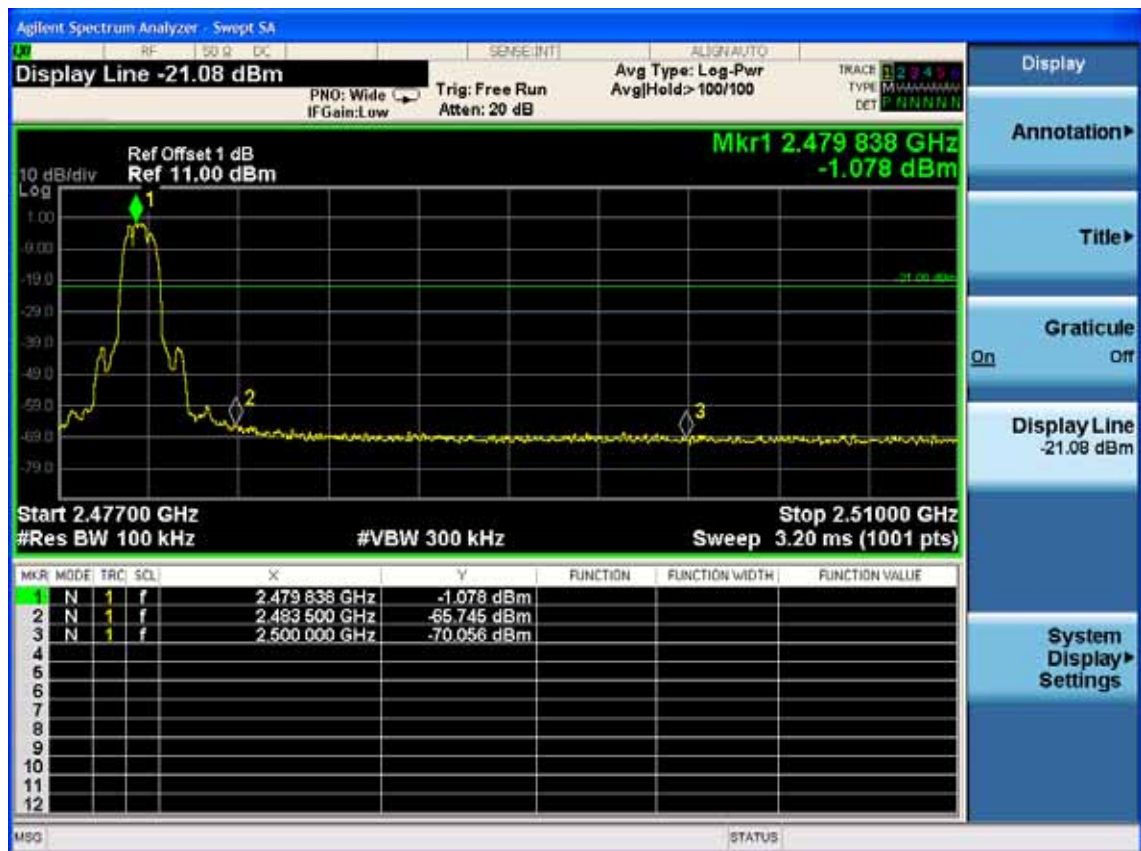
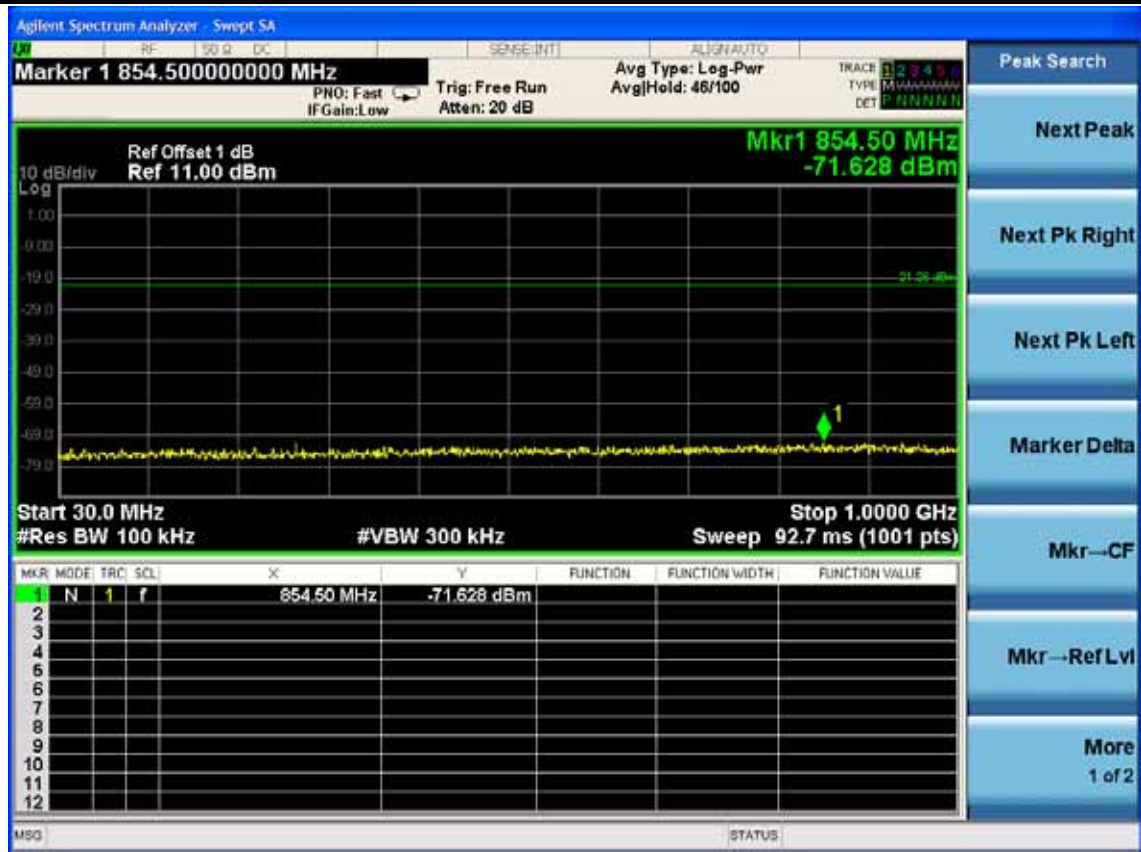
2441MHz



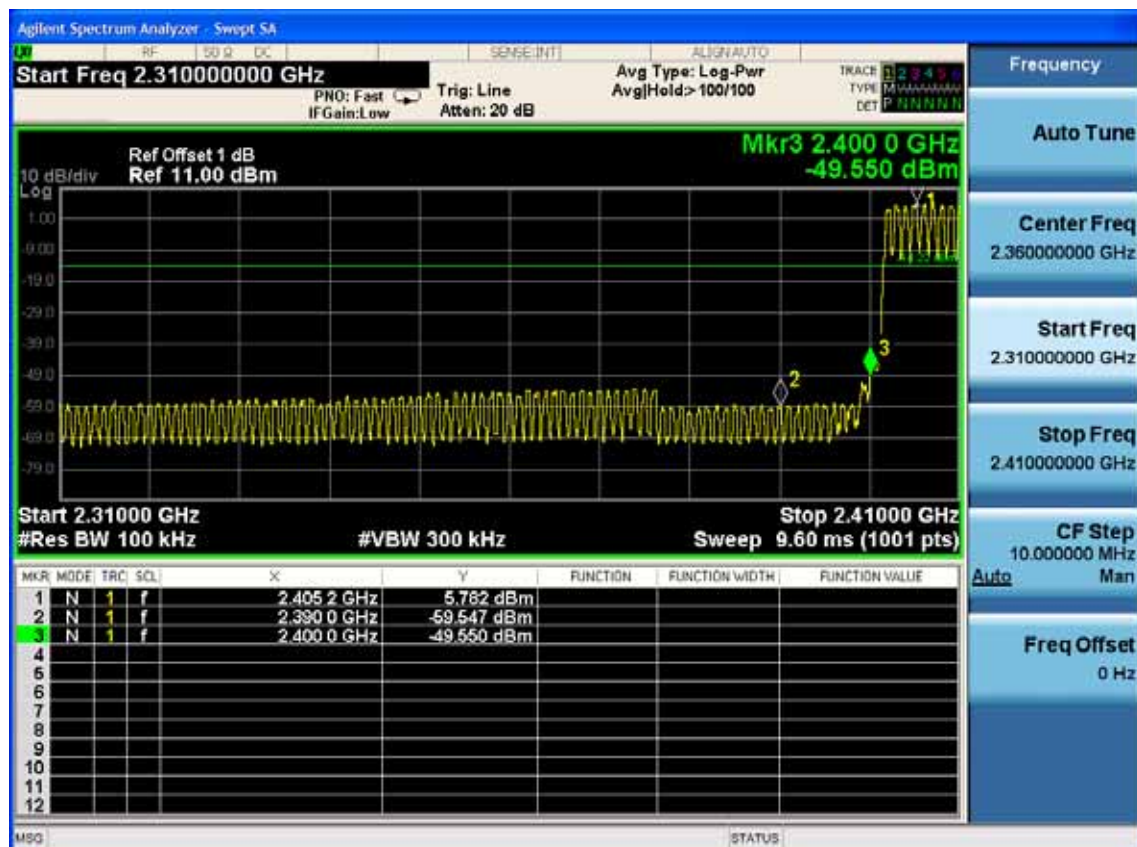
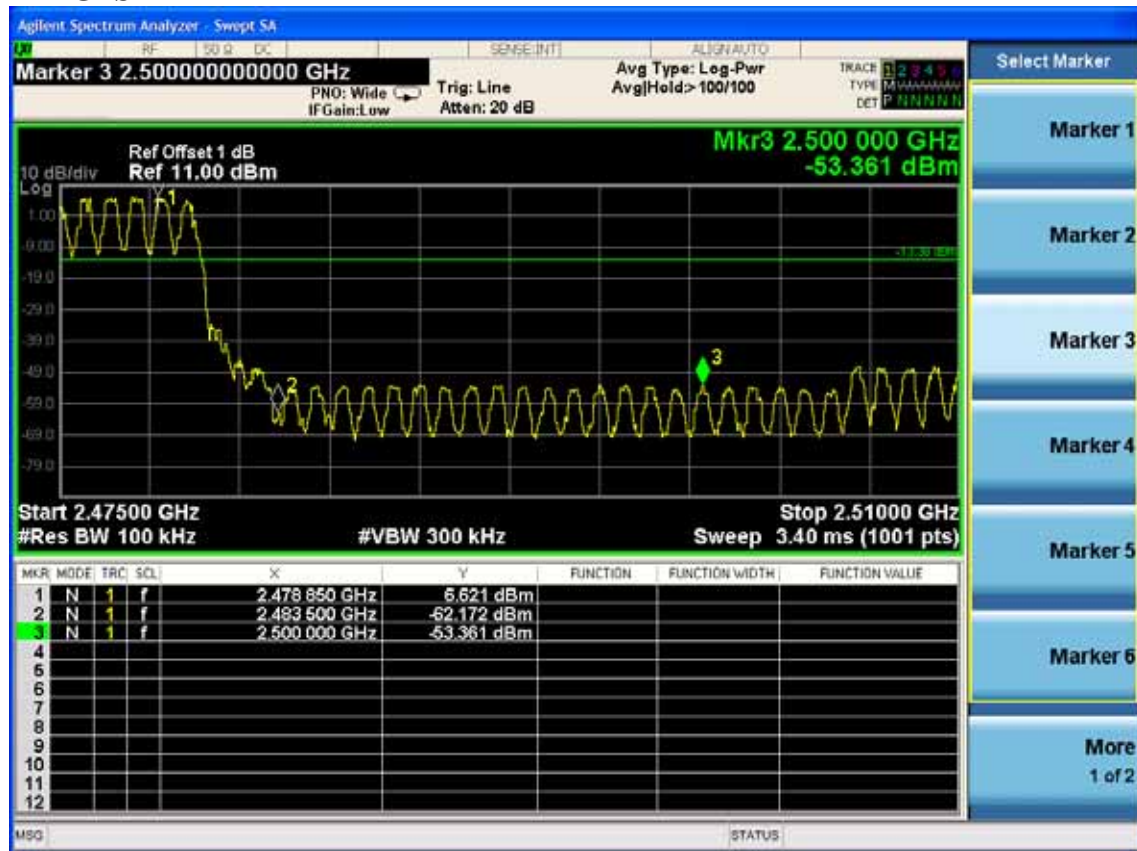


2480MHz

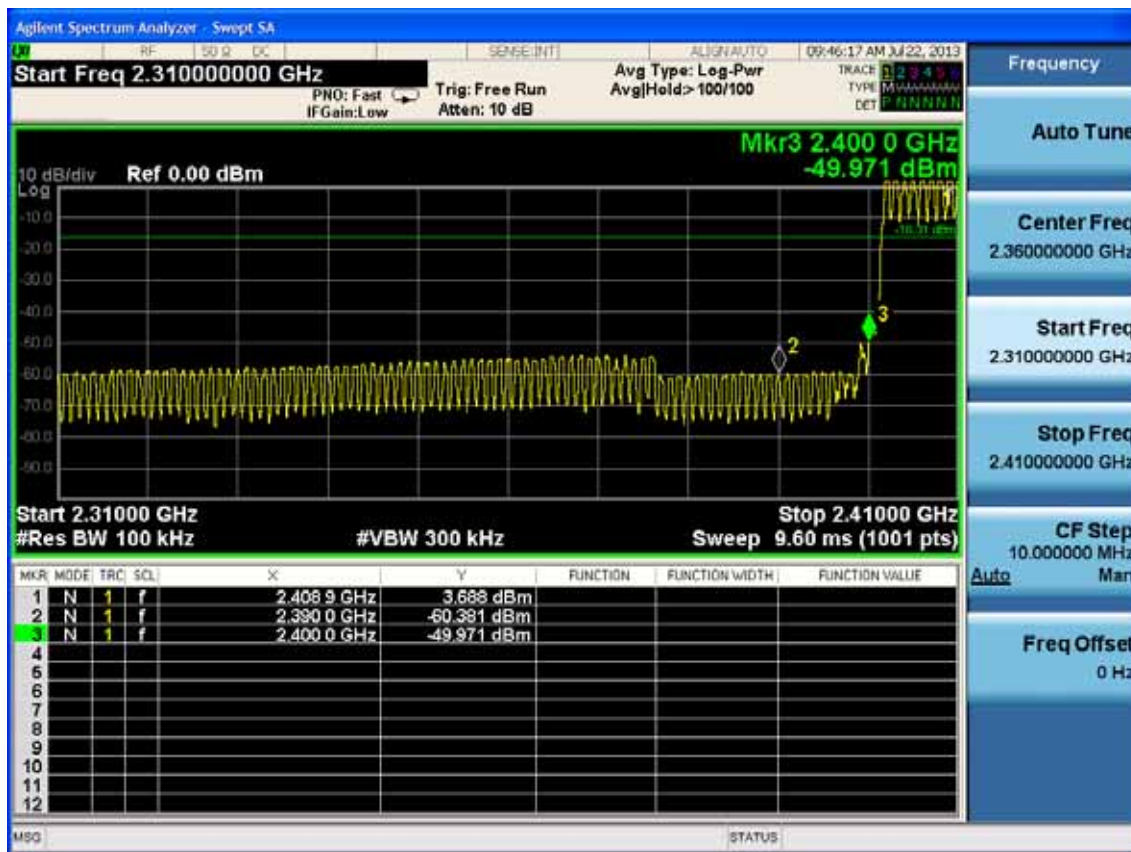




Hopping on GFSK



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: Soundbar Home Theater Speaker		
M/N: NS-SB314		
Test date: 2014-03-01	Pressure: 101.5±1.0 kpa	Humidity: 51.5±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 21.4±0.6°C

Test Mode	Channel separation	Conclusion
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: Soundbar Home Theater Speaker		
M/N: NS-SB314		
Test date: 2014-03-01	Pressure: 101.5±1.0 kpa	Humidity: 51.5±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 21.4±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	20dB bandwidth (KHz)	Limit (KHz)
GFSK	2402	911.1	N/A
	2441	929.0	N/A
	2480	933.1	N/A
8-DPSK	2402	1201	N/A
	2441	1203	N/A
	2480	1204	N/A
Conclusion : PASS			

GFSK

Test Frequency: 2402MHz



Test Frequency: 2441MHz

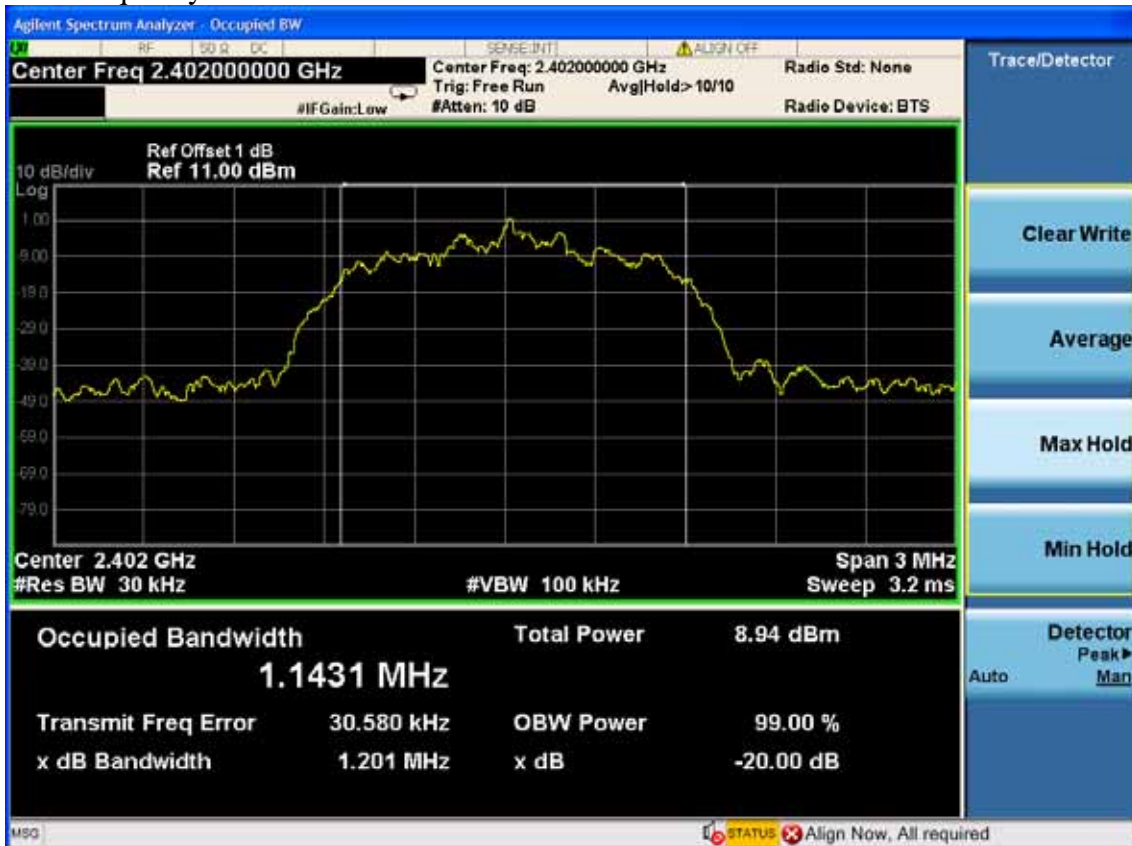


Test Frequency: 2480MHz



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

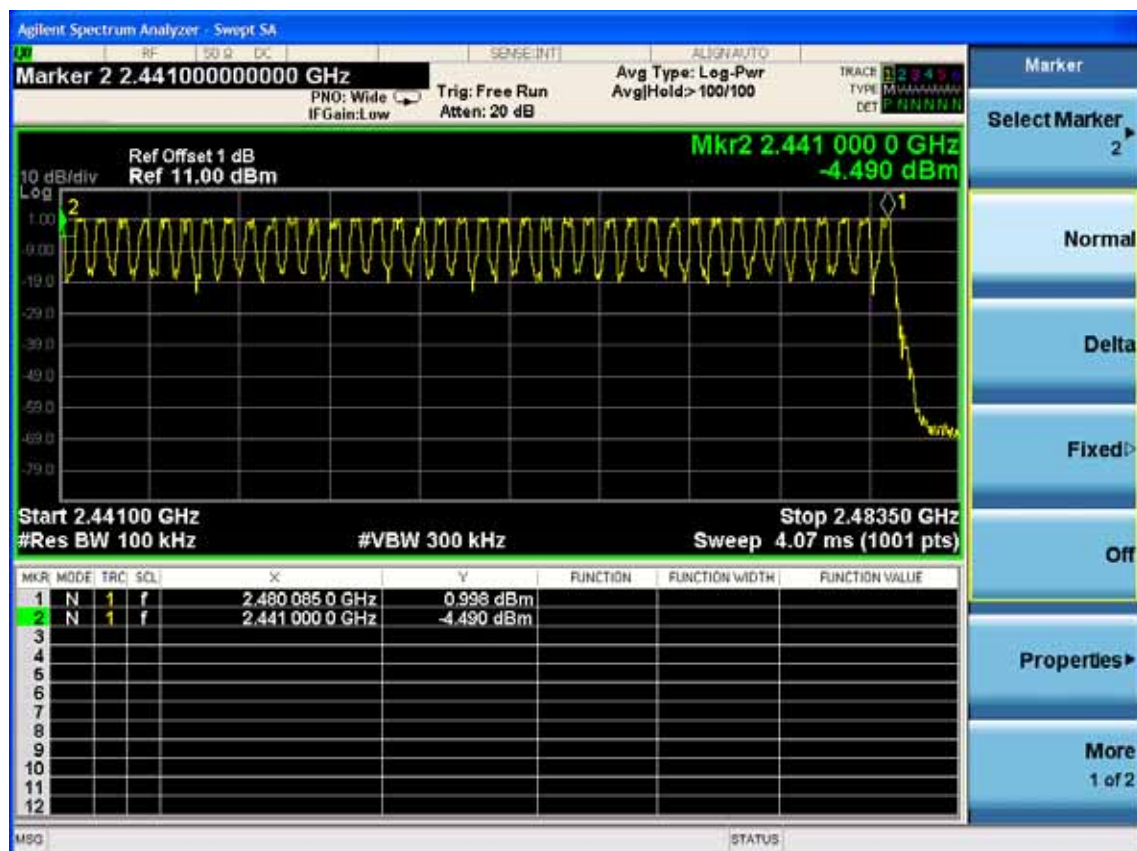
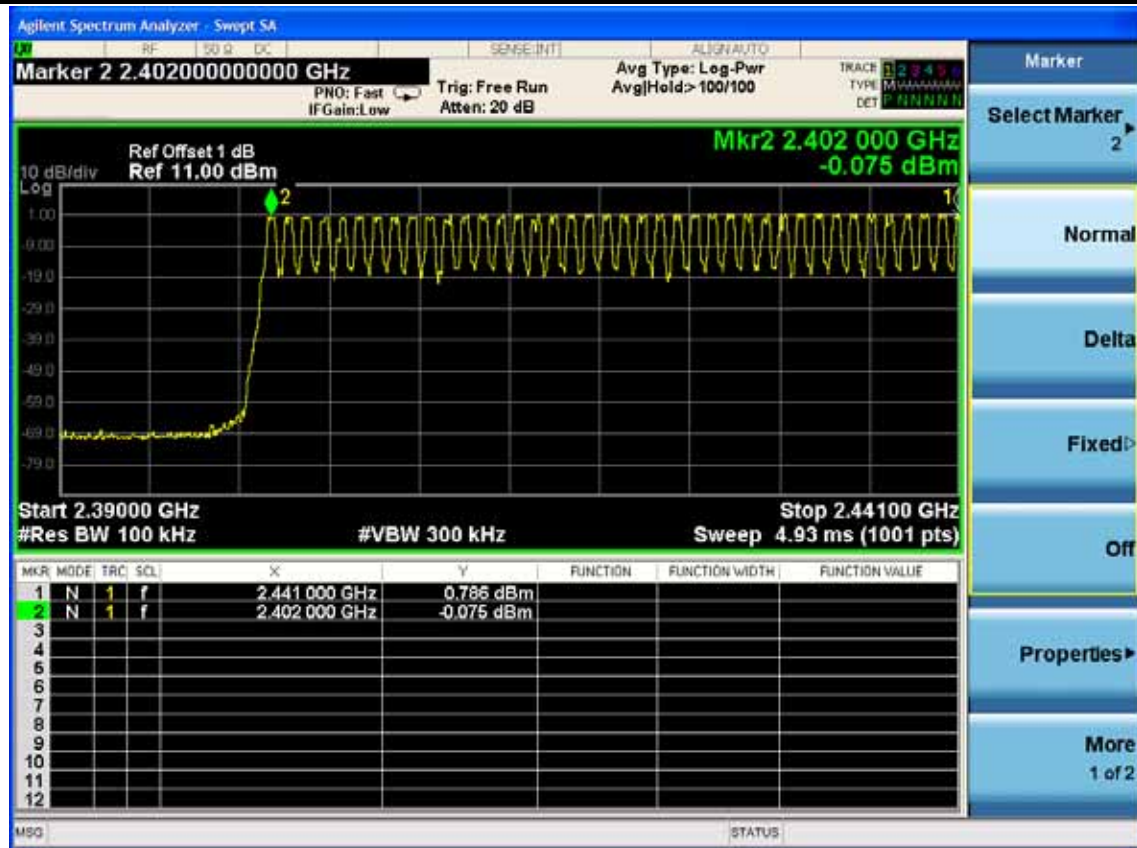
8.2. Limit

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

8.3. Test Results

EUT: Soundbar Home Theater Speaker		
M/N: NS-SB314		
Test date: 2014-03-01	Pressure: 101.5±1.0 kpa	Humidity: 51.5±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 21.4±0.6℃

Test Mode	Number of channel	Limit	Conclusion
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.

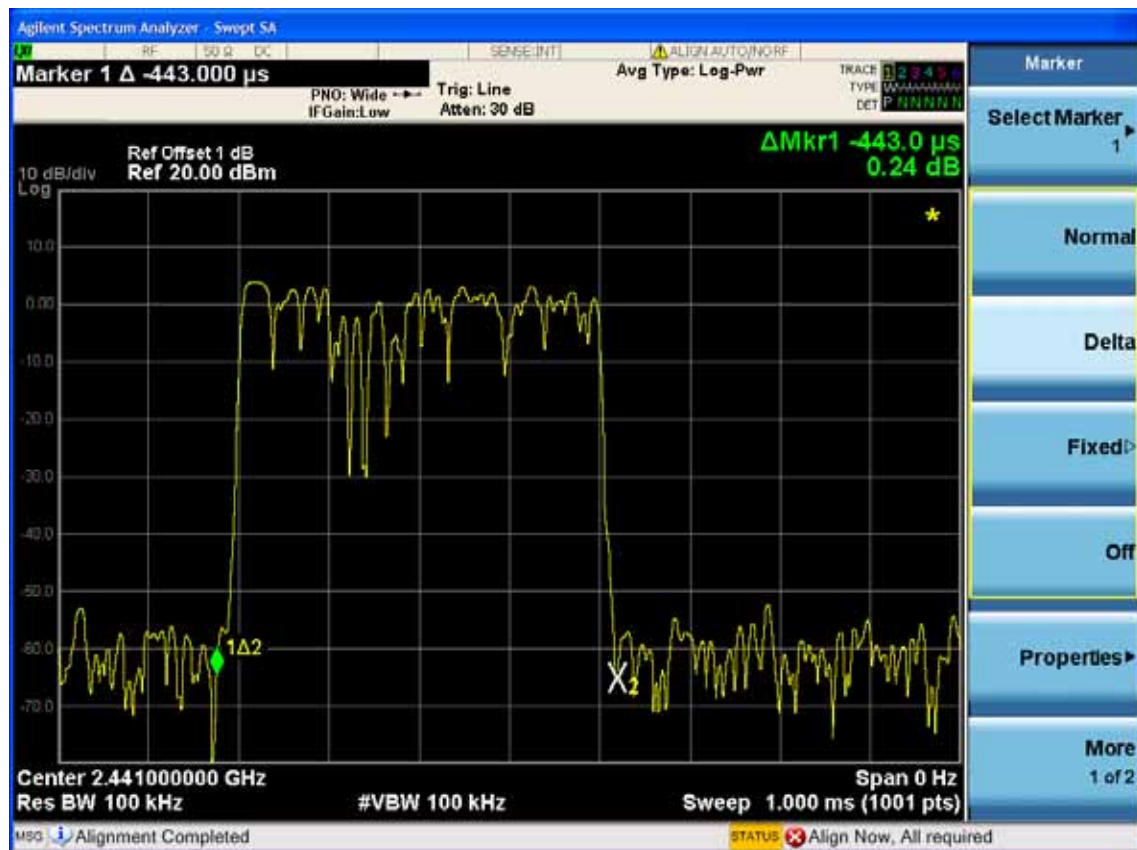
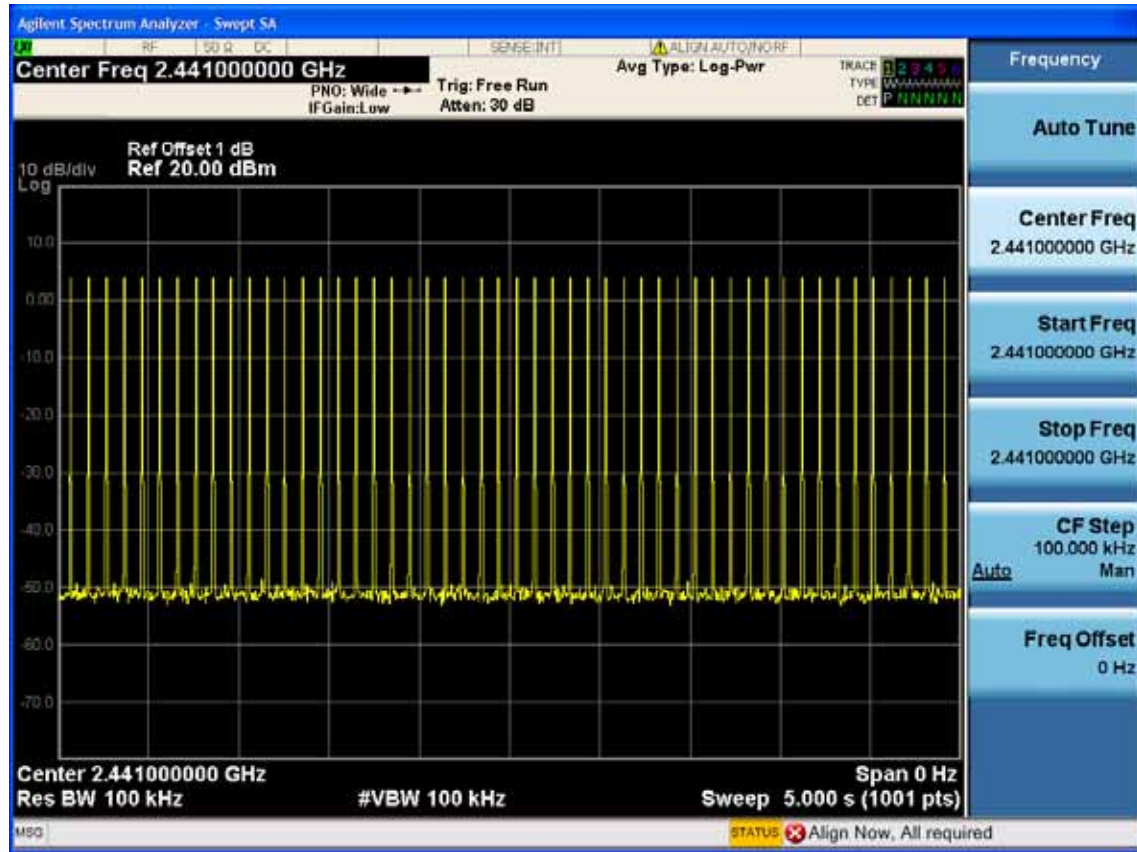
9.3. Test Results

EUT: Soundbar Home Theater Speaker		
M/N: NS-SB314		
Test date: 2014-03-01	Pressure: 101.5±1.0 kpa	Humidity: 51.5±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 21.4±0.6°C

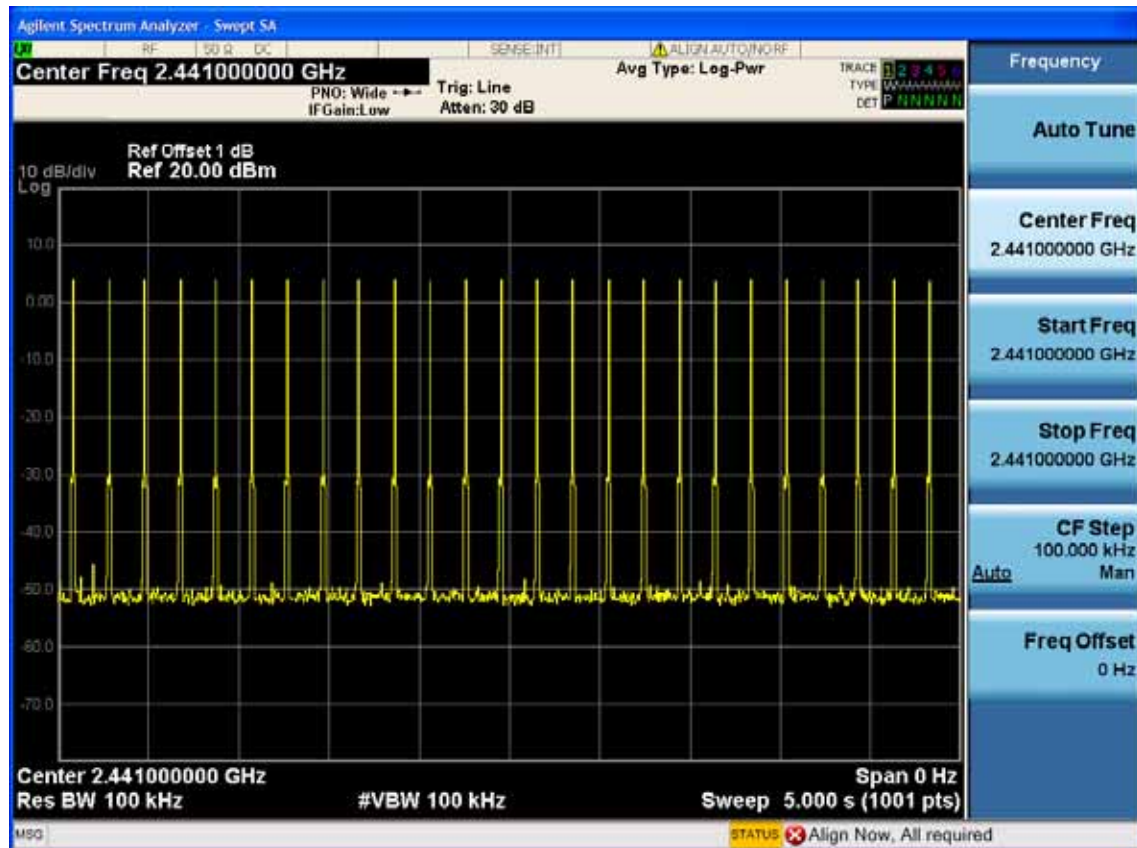
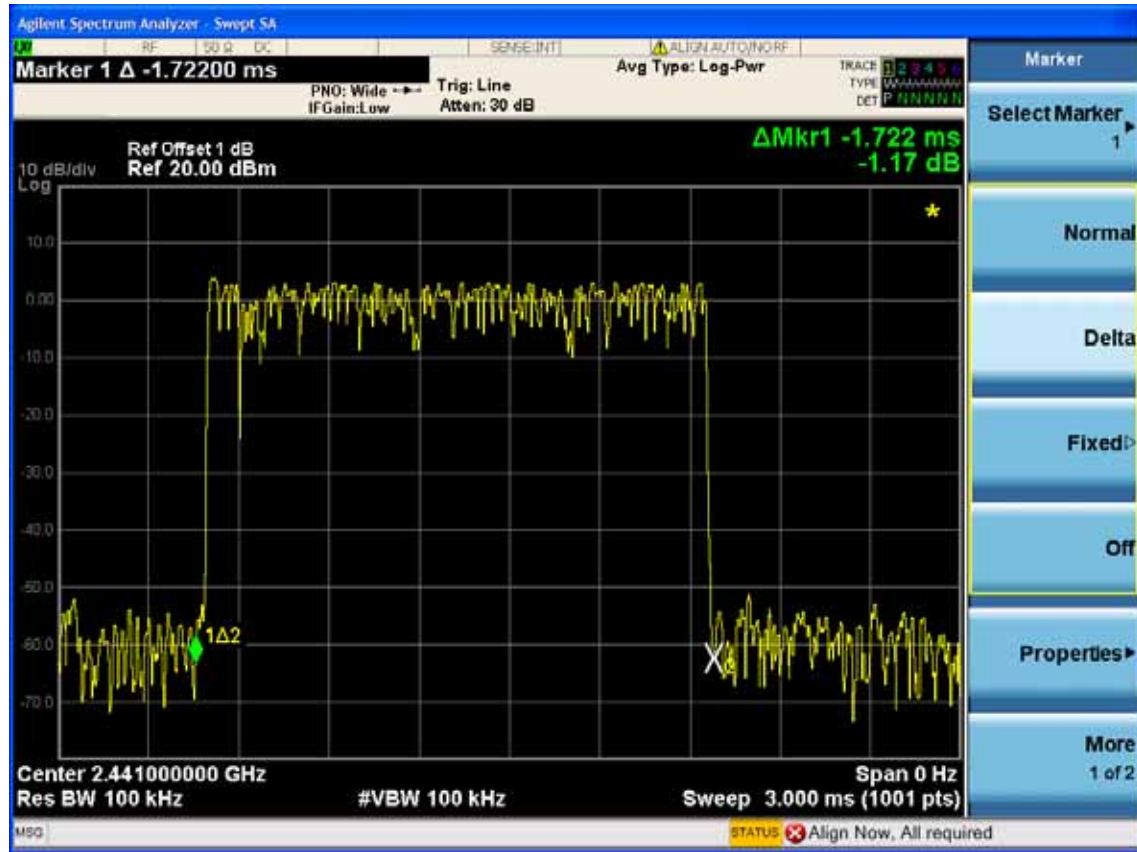
Mode		dwel time	Limit	Conclusion
GFSK	DH1	50hops/5s*0.4*79chanel*0.443ms =139.99ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanel*1.722ms =272.08ms	<400ms	PASS
	DH5	17hops/5s*0.4*79chanel*2.915ms=313.19ms	<400ms	PASS
8-DPSK	DH1	50hops/5s*0.4*79chanel*0.453ms =143.15ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanel*1.698ms =268.28ms	<400ms	PASS
	DH5	19hops/5s*0.4*79chanel*2.970ms =356.64ms	<400ms	PASS

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

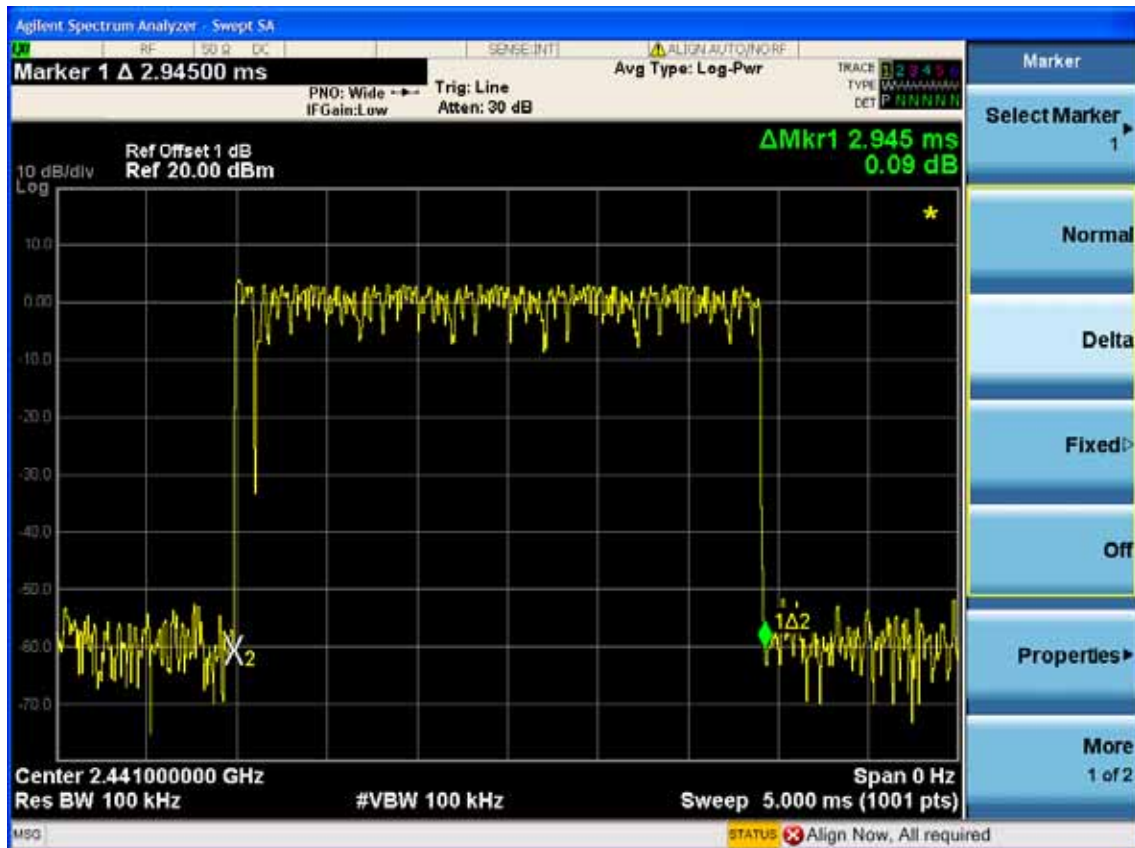
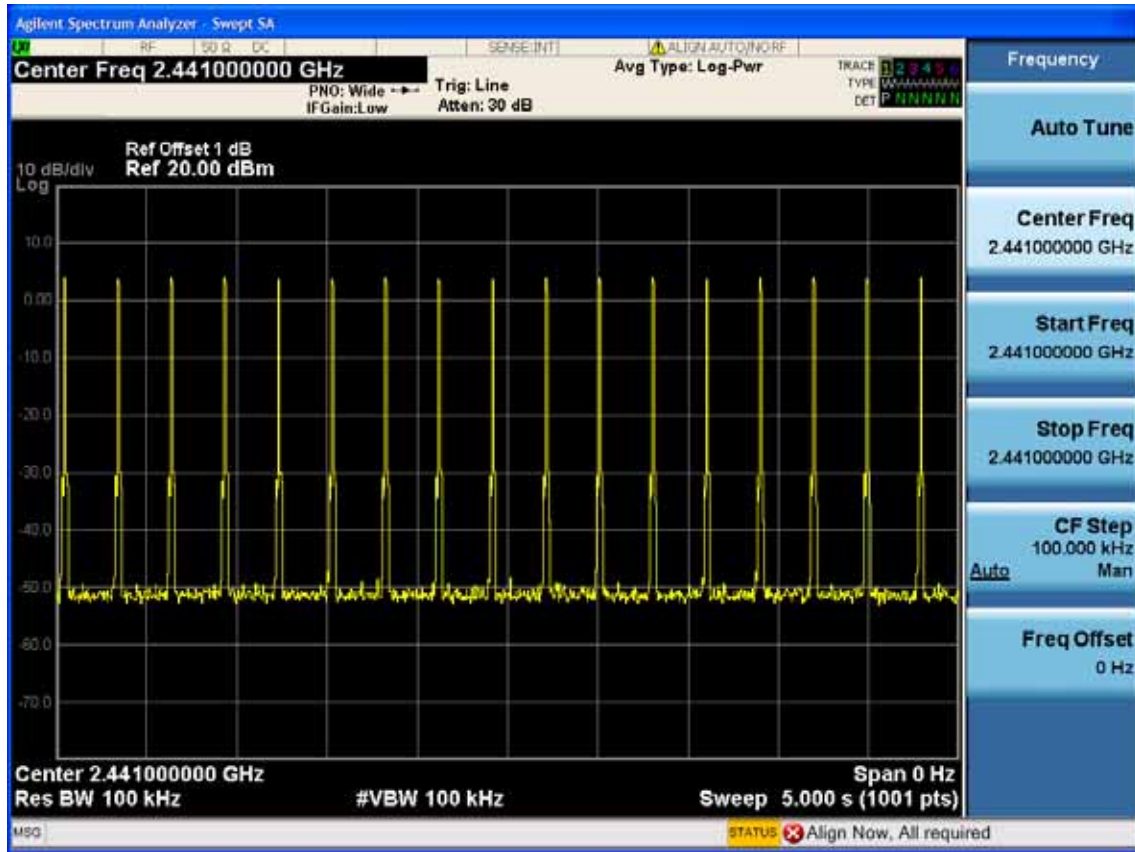
GFSK DH 1



DH 3

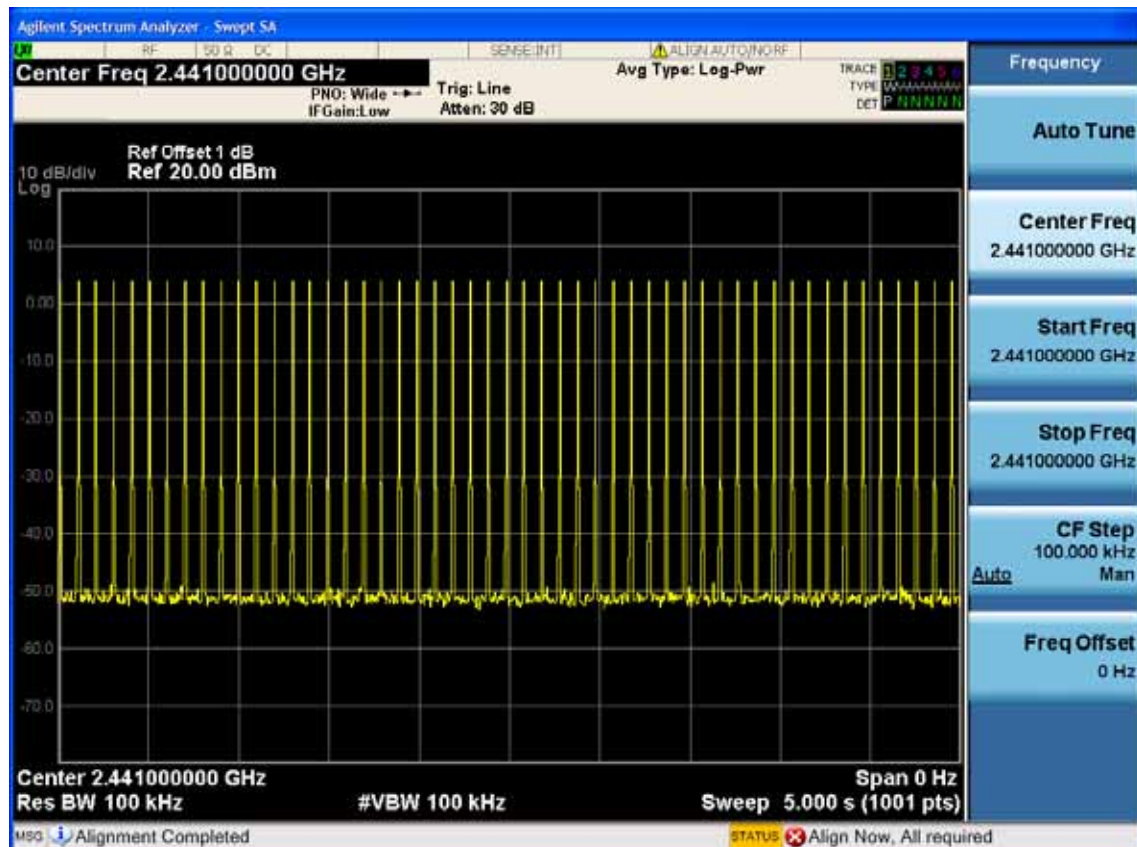
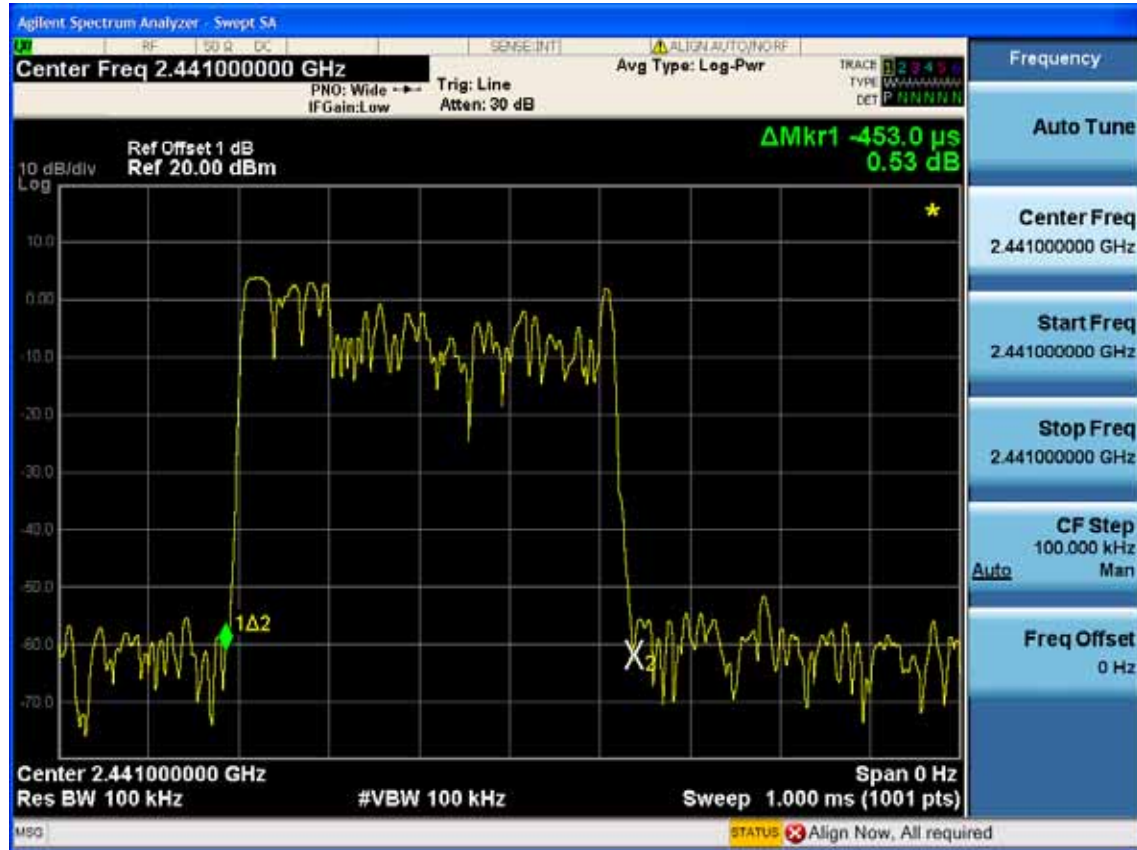


DH 5

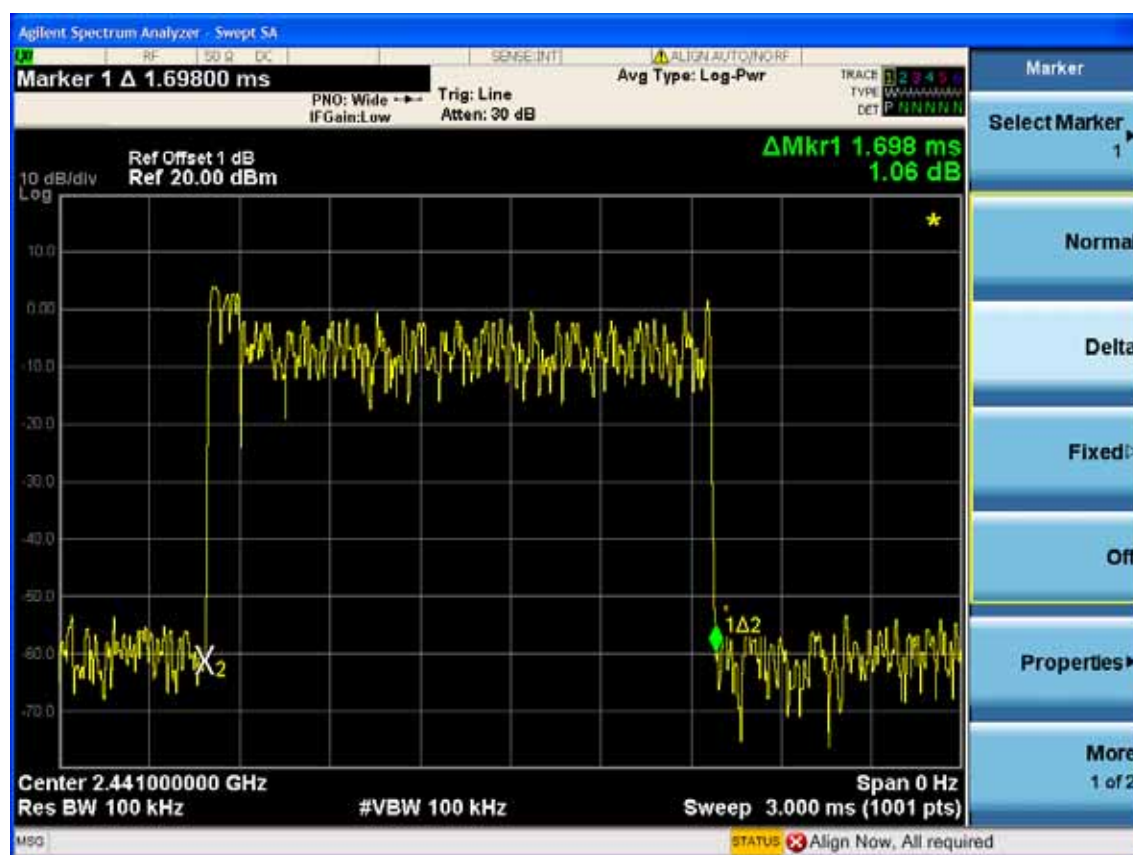
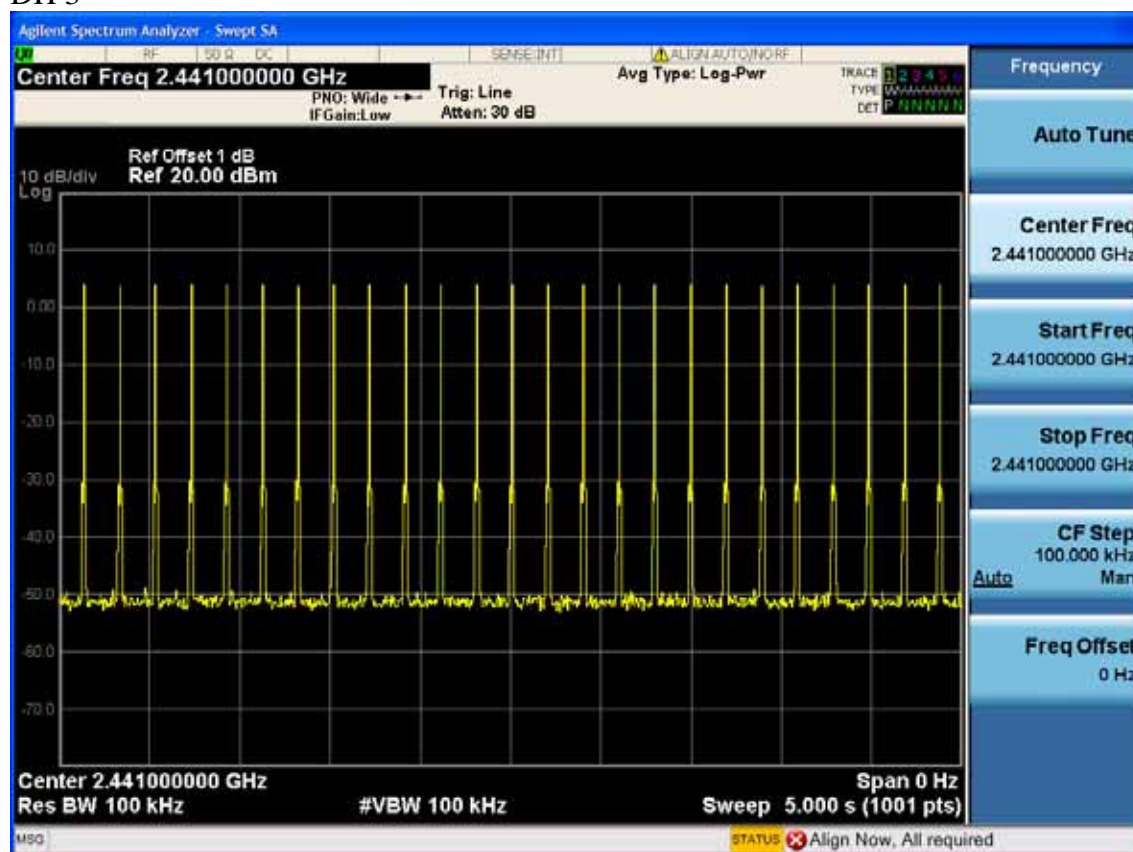


8-DPSK

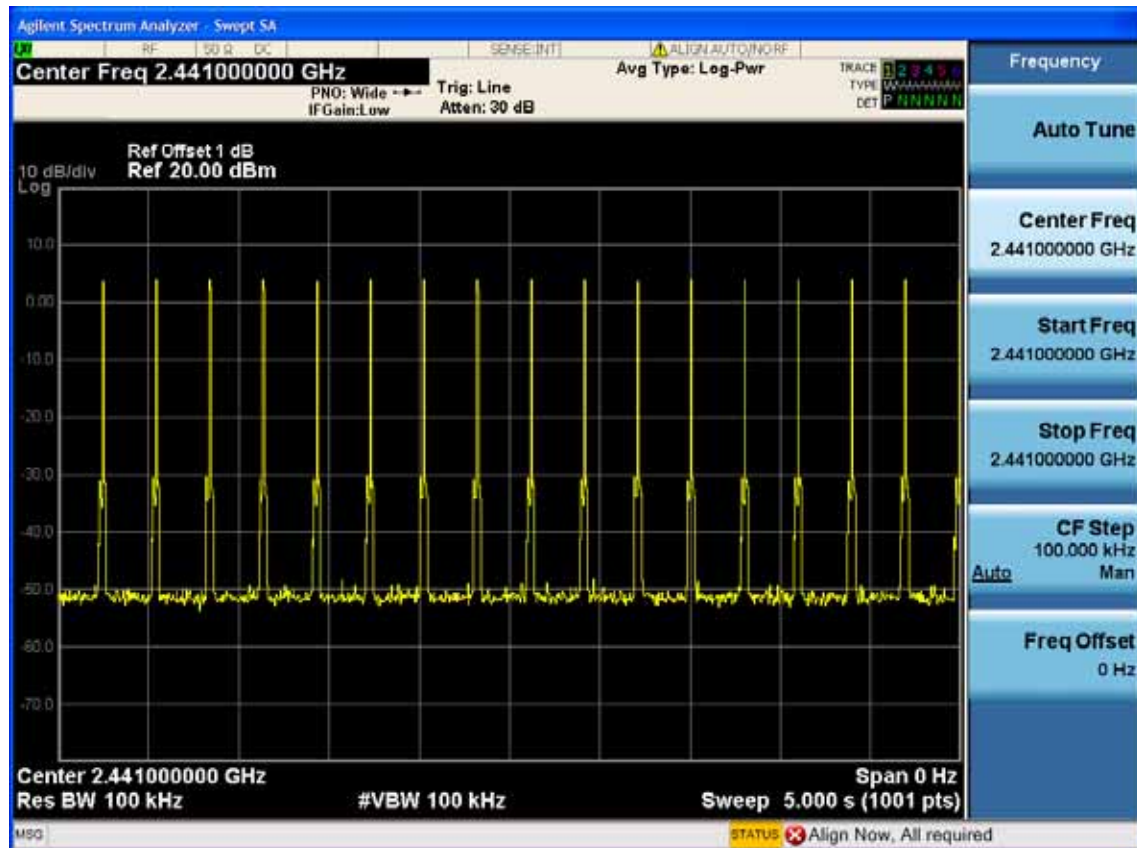
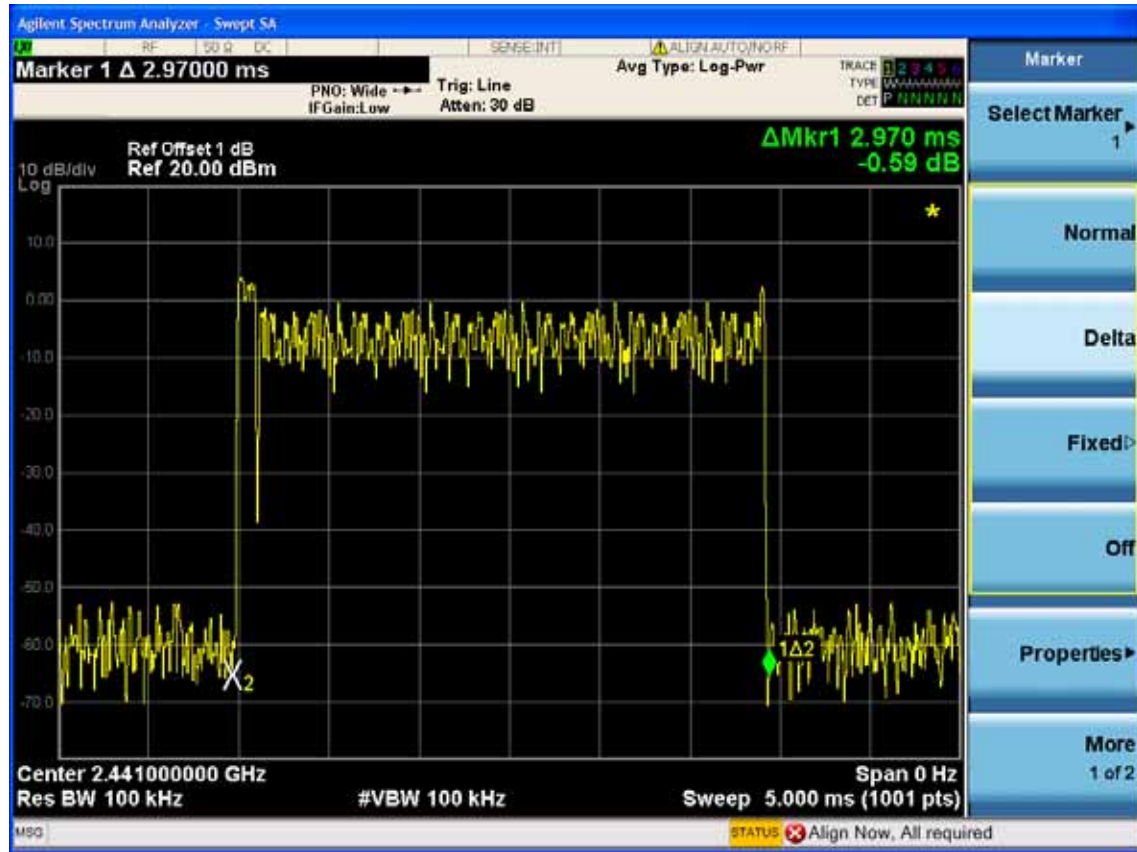
DH 1



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.	Antenna	EMCO	3115	9607-4877	May.08, 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

1. Connected the EUT's antenna port to spectrum analyzer.
2. Set the RBW> Bandwidth of test Frequency and put the test Frequency, Set the Span large enough to capture the entire signal
3. Use a peak detector on max hold
4. Reading the value from the Spectrum analyzer

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

10.4. Test Results

EUT: Soundbar Home Theater Speaker			
M/N: NS-SB314			
Test date: 2014-03-01		Pressure: 101.4±1.0 kpa	Humidity: 53.7±1.0%
Tested by: Eric_lv		Test site: RF site	Temperature: 20.2±1.0 °C
Cable loss: 1.0dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	5.837	30
	2441	6.949	30
	2480	7.430	30
8-DPSK	2402	3.896	30
	2441	5.362	30
	2480	5.771	30
Conclusion: PASS			

GFSK 2402MHz



2441MHz



2480MHz



8-DPSK

2402MHz



2441MHz



2480MHz



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.	Antenna	EMCO	3115	9607-4877	May.08, 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

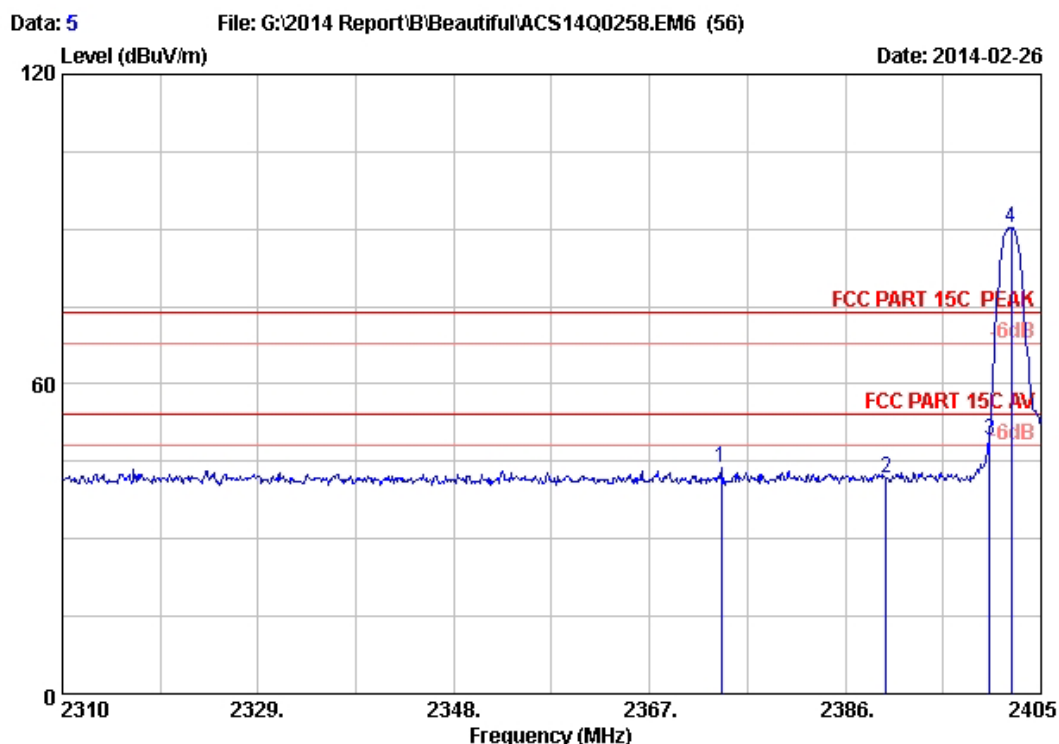
For emissions above two bandwidths away from the band-edge use below produce:

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) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

11.4. Test Results

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

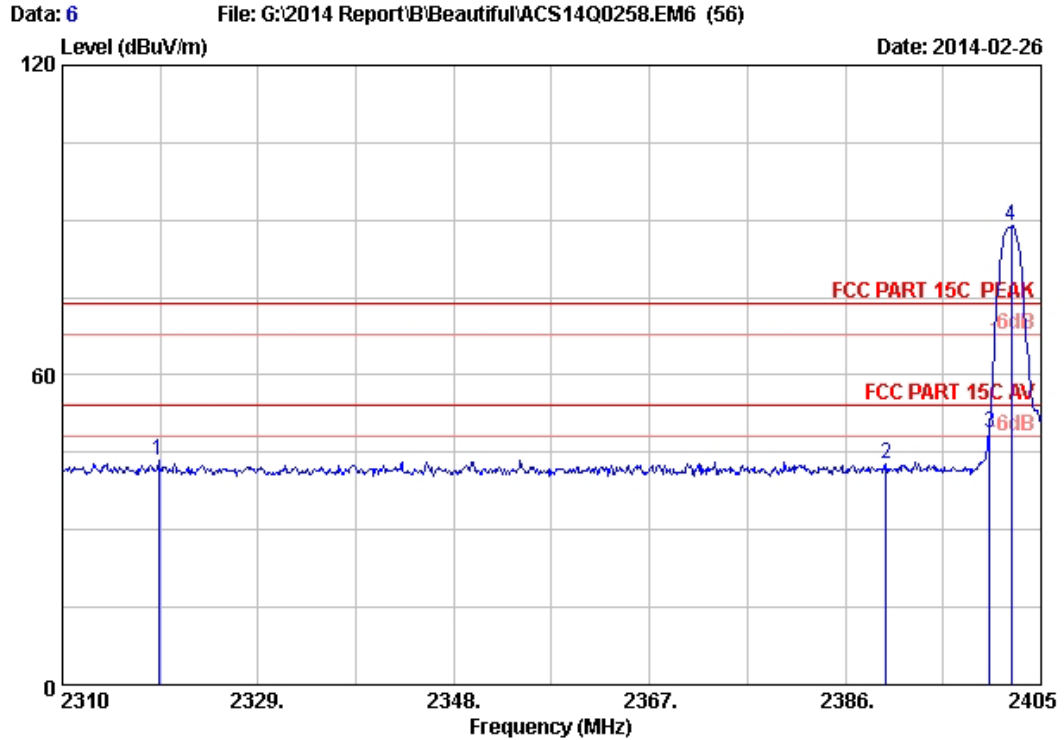
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Soundbar Home Theater Speaker
Power Rating : DC 18V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2402Hz Tx
M/N : NS-SB314

No.	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	2373.935	23.82	5.76	35.70	49.77	43.65	74.00	30.35	Peak
2	2390.000	23.80	5.78	35.70	47.75	41.63	74.00	32.37	Peak
3	2400.000	23.79	5.80	35.70	55.34	49.23	74.00	24.77	Peak
4	2402.150	23.79	5.80	35.70	96.36	90.25	74.00	-16.25	Peak

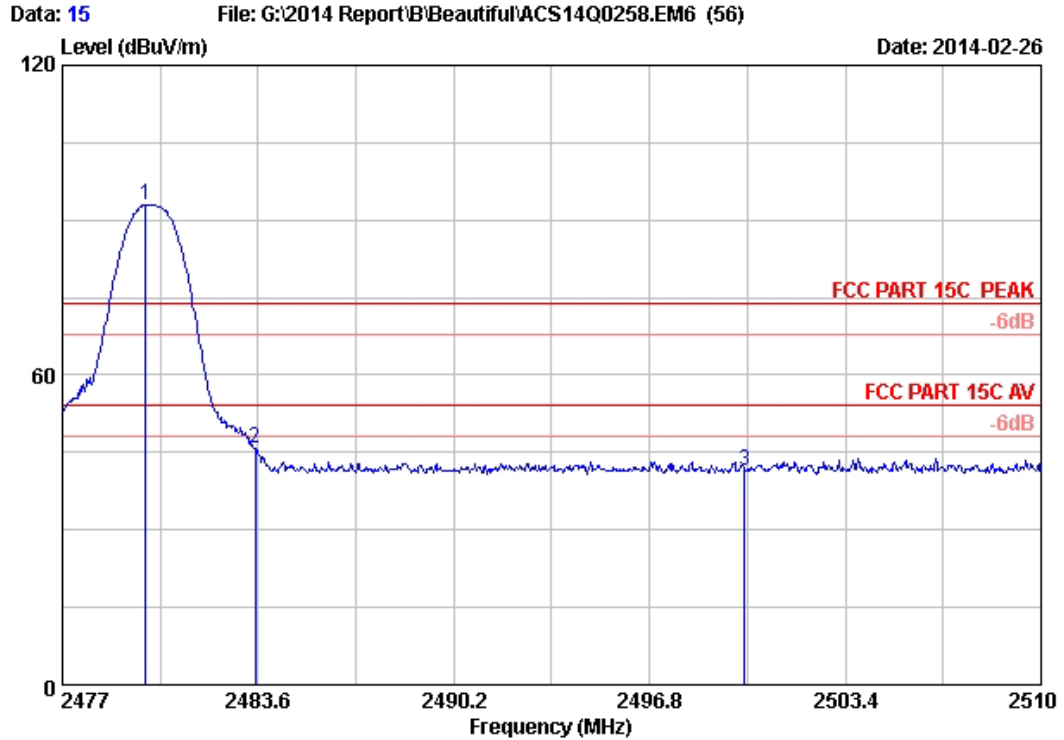
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2402Hz Tx
 M/N : NS-SB314

No.	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	2319.310	23.87	5.68	35.70	49.77	43.62	74.00	30.38	Peak
2	2390.000	23.80	5.78	35.70	49.04	42.92	74.00	31.08	Peak
3	2400.000	23.79	5.80	35.70	55.05	48.94	74.00	25.06	Peak
4	2402.150	23.79	5.80	35.70	94.88	88.77	74.00	-14.77	Peak

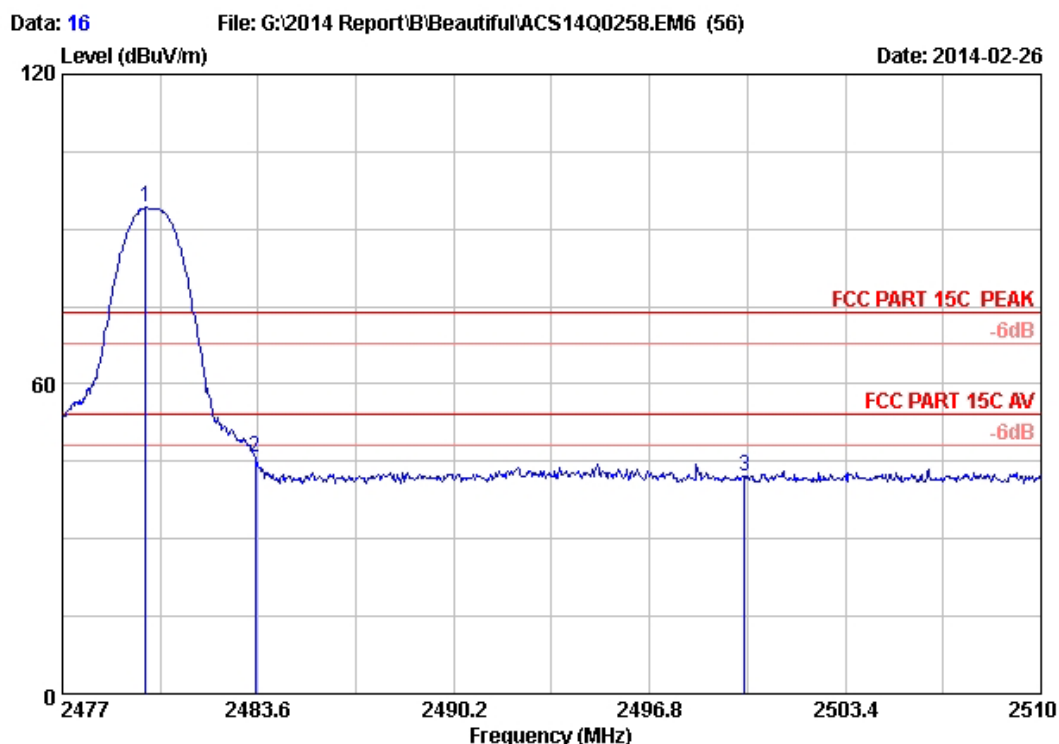
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2480Hz Tx
 M/N : NS-SB314

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2479.805	23.72	5.91	35.70	99.01	92.94	74.00	-18.94	Peak
2	2483.500	23.71	5.92	35.70	51.76	45.69	74.00	28.31	Peak
3	2500.000	23.70	5.94	35.70	47.62	41.56	74.00	32.44	Peak

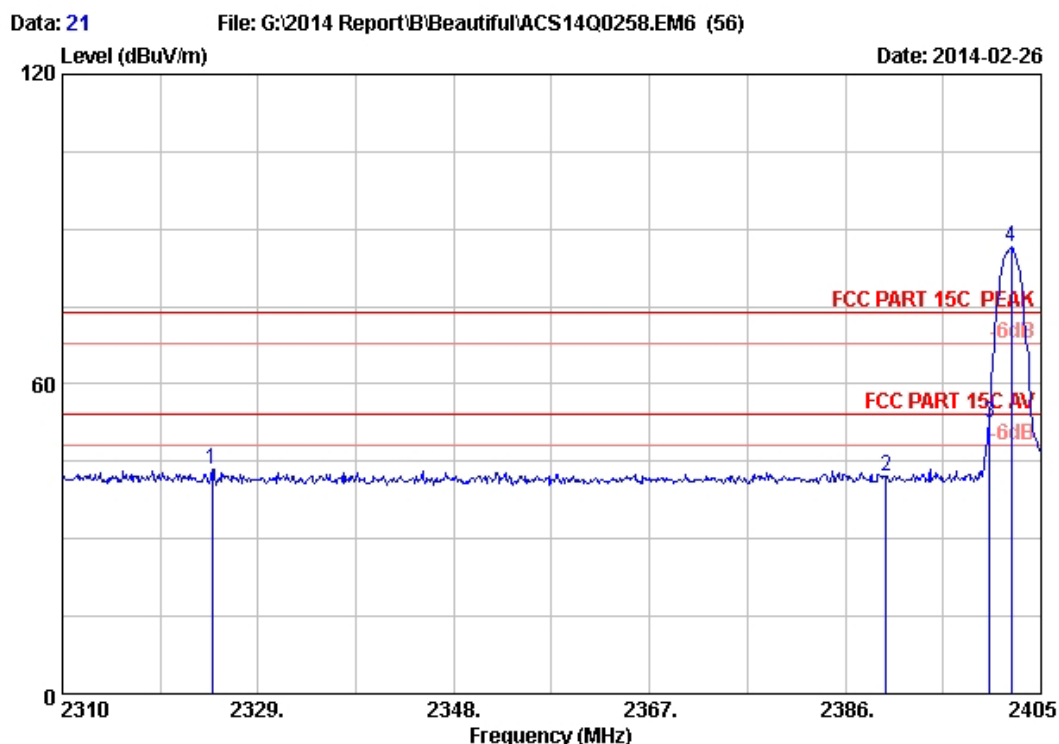
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2480Hz Tx
 M/N : NS-SB314

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2479.805	23.72	5.91	35.70	100.23	94.16	74.00	-20.16	Peak
2	2483.500	23.71	5.92	35.70	51.98	45.91	74.00	28.09	Peak
3	2500.000	23.70	5.94	35.70	48.07	42.01	74.00	31.99	Peak

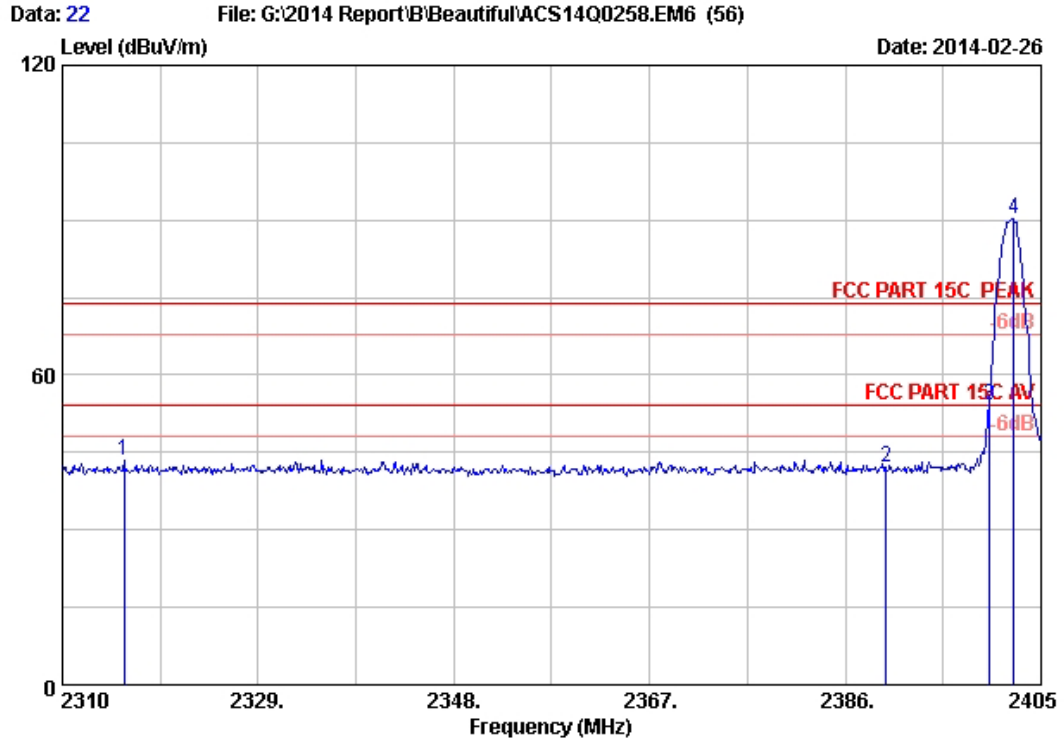
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402Hz Tx
 M/N : NS-SB314

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2324.535	23.86	5.69	35.70	49.75	43.60	74.00	30.40	Peak
2	2390.000	23.80	5.78	35.70	48.17	42.05	74.00	31.95	Peak
3	2400.000	23.79	5.80	35.70	58.69	52.58	74.00	21.42	Peak
4	2402.150	23.79	5.80	35.70	92.54	86.43	74.00	-12.43	Peak

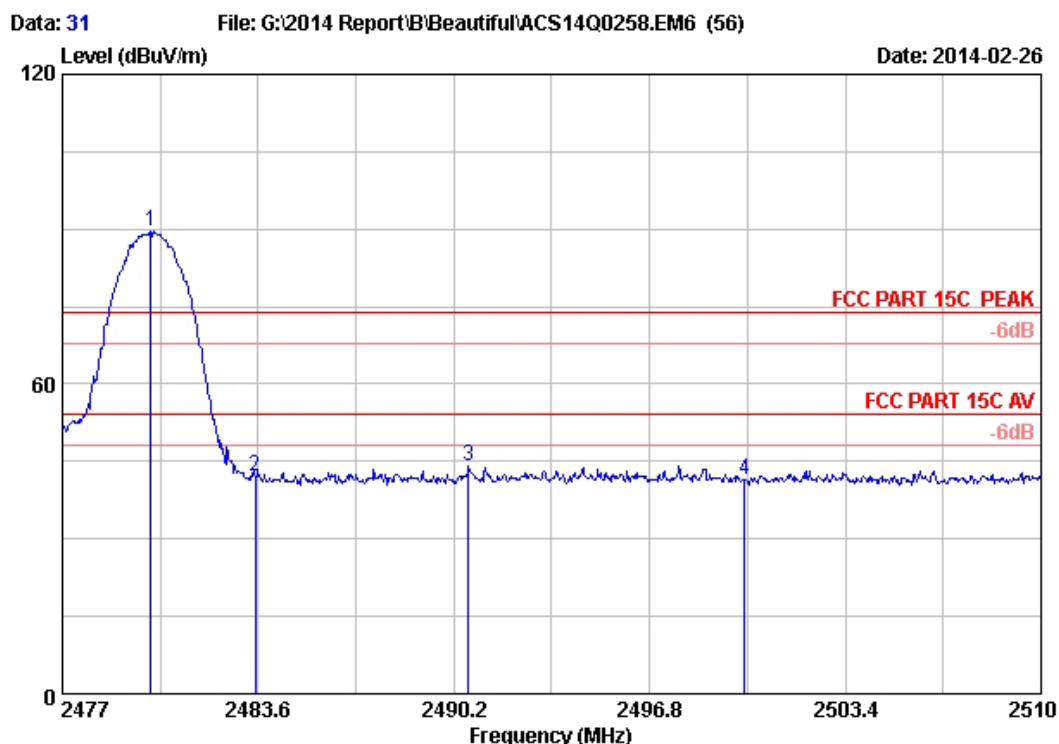
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402Hz Tx
 M/N : NS-SB314

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2315.985	23.87	5.67	35.70	49.61	43.45	74.00	30.55	Peak
2	2390.000	23.80	5.78	35.70	48.09	41.97	74.00	32.03	Peak
3	2400.000	23.79	5.80	35.70	60.36	54.25	74.00	19.75	Peak
4	2402.340	23.79	5.80	35.70	96.30	90.19	74.00	-16.19	Peak

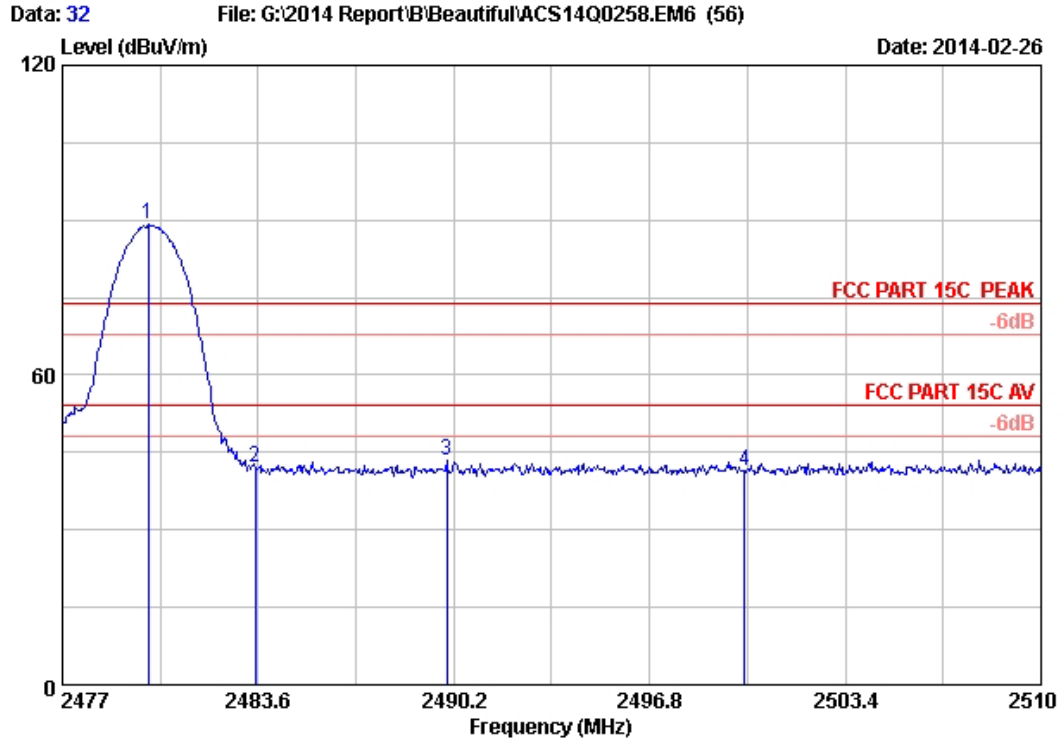
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480Hz Tx
 M/N : NS-SB314

No.	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	23.72	5.91	35.70	95.74	89.67	74.00	-15.67	Peak
2	2483.500	23.71	5.92	35.70	48.03	41.96	74.00	32.04	Peak
3	2490.695	23.71	5.93	35.70	50.08	44.02	74.00	29.98	Peak
4	2500.000	23.70	5.94	35.70	47.50	41.44	74.00	32.56	Peak

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



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Soundbar Home Theater Speaker
 Power Rating : DC 18V From Adapter Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480Hz Tx
 M/N : NS-SB314

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2479.904	23.72	5.91	35.70	95.23	89.16	74.00	-15.16	Peak
2	2483.500	23.71	5.92	35.70	48.25	42.18	74.00	31.82	Peak
3	2489.969	23.71	5.93	35.70	49.43	43.37	74.00	30.63	Peak
4	2500.000	23.70	5.94	35.70	47.57	41.51	74.00	32.49	Peak

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

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]