

Prüfbericht-Nr.: <i>Test Report No.:</i>	17051282 001	Auftrags-Nr.: <i>Order No.:</i>	164041262	Seite 1 von 70 <i>Page 1 of 70</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	466337	Auftragsdatum: <i>Order date.:</i>	17.07.2015	
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co., Ltd. RM1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP STREET, KWUN TONG, HONG KONG			
Prüfgegenstand: <i>Test item:</i>	Bluetooth Stereo Speaker with Power bank			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	BTD01A-A, NS-SPBTBRICK-R, NS-SPBTBRICK-CS, NS-SPBTBRICK-C, NS-SPBTBRICK-SB			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification and Verification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.107 CFR47 FCC Part 15: Subpart C Section 15.109 FCC KDB Publication 447498 D01 v05r02 RSS-247 Issue 1 May 2015 RSS-Gen Issue 4 November 2014 ICES-003 Issue 5 August 2012 RSS-102 Issue 5 March 2015			
Wareneingangsdatum: <i>Date of receipt:</i>	19.07.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000228680-001 A000228680-002			
Prüfzeitraum: <i>Testing period:</i>	19.07.2015 - 22.07.2015			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen Emtex Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
12.08.2015	Ryan Yang / Senior Project Engineer	20.08.2015	Sam Lin / Technical Certifier	
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
Sonstiges / Other:				
This test report is for approval of 2.4G band operation. FCC ID: XMF-BTD01 Application NO.: BTD01A-A, NS-SPBTBRICK-R, NS-SPBTBRICK-CS, NS-SPBTBRICK-C, NS-SPBTBRICK-SB IC: 20064-BTD01 Application NO.: NS-SPBTBRICK-R, NS-SPBTBRICK-CS, NS-SPBTBRICK-C, NS-SPBTBRICK-SB				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V04

Test Summary

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK CONDUCTED OUTPUT POWER***RESULT: Pass***5.1.3 CONDUCTED POWER SPECTRAL DENSITY***RESULT: Pass***5.1.4 6dB BANDWIDTH***RESULT: Pass***5.1.5 99% BANDWIDTH***RESULT: Pass***5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH***RESULT: Pass***5.1.7 RADIATED SPURIOUS EMISSION***RESULT: Pass***5.1.8 20dB BANDWIDTH***RESULT: Pass***5.1.9 CARRIER FREQUENCY SEPARATION***RESULT: Pass***5.1.10 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.11 TIME OF OCCUPANCY***RESULT: Pass***5.1.12 CONDUCTED EMISSIONS***RESULT: Pass***5.1.13 RADIATED EMISSION***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

Shenzhen Emtex Co., Ltd.

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, China

FCC Registration No.: 406365

Test site Industry Canada No.: 4480A-4

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Shenzhen Emtek Co., Ltd.

Radio Spectrum Test				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	R&S	FSV40	132.1-3008K39-100967-AP	17.05.2016
Spectrum Analyzer	Agilent	E4407B	88156318	17.05.2016
Spectrum Analyzer	Agilent	N9010A	My53470879	17.05.2016
Conducted Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Test Receiver	R&S	ESCI	26115-010-0027	17.05.2016
L.I.S.N.	R&S	ENV216	101161	17.05.2016
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	17.05.2016
Voltage Probe	R&S	ESH2-Z3	100122	17.05.2016
Spurious Emission & Radiated Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESU	1302.6005.26	17.05.2016
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	17.05.2016
Pre-Amplifier	HP	8447F	2944A07999	17.05.2016
Bilog Antenna	Schwarzbeck	VULB9163	142	17.05.2016
Pre-Amplifier	A.H.	PAM-0126	1415261	17.05.2016
Horn Antenna	Schwarzbeck	BBHA 9120	707	17.05.2016
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	17.05.2016
Cable	N/A	3M SF104-26.5	295838/4	17.05.2016
Cable	N/A	6M SF104-26.5	295840/4	17.05.2016
Cable	Schwarzbeck	AK9513	ACRX1	17.05.2016
Cable	Rosenberger	N/A	FP2RX2	17.05.2016
Cable	Schwarzbeck	AK9513	CRPX1	17.05.2016
Cable	Schwarzbeck	AK9513	CRRX2	17.05.2016
Cable	H+B	0.5M SF104-26.5	289147/4	17.05.2016
Cable	H+B	3M SF104-26.5	295838/4	17.05.2016
Cable	H+B	6M SF104-26.5	295840/4	17.05.2016

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	± 1.0 dB
All emission, radiated	± 3.0 dB
Conducted Emission	± 2.0 dB
Radiated Emission	± 2.0 dB
Antenna Port Emission	± 3.0 dB
Temperature	± 0.5 °C
Humidity	± 3.0 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Shenzhen Emtek Co., Ltd. Test facility located at Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a "Bluetooth Speaker" with Bluetooth 4.0 dual mode, which is intended to enable Bluetooth connectivity with Notebook or smart phone, and play the music from Bluetooth device.

According to the declaration of the applicant, the electrical circuit design, PCB layout, components used and internal structure are identical for all models, only difference being the model No. and appearance.

Refer to User Manual for further details.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value	
Product Name	Bluetooth Stereo Speaker with Power bank	
Model Number	BTD01A-A, NS-SPBTBRICK-R, NS-SPBTBRICK-CS, NS-SPBTBRICK-C, NS-SPBTBRICK-SB	
Operating Frequency	2402-2480MHz	
Extreme Temperature Range	-20°C ~ +55°C	
Operation Voltage	DC 5.0V	From USB for charging
	DC 3.7V	From Internal rechargeable lithium battery
Modulation	BDR mode	GFSK
	EDR mode	$\pi/4$ DQPSK, 8DPSK
	Low Energy mode	GFSK
Number of Channel	BDR & EDR mode:79 channels; Low Energy mode:40 channels	
Channel Spacing	BDR & EDR mode: 1MHz; Low Energy mode: 2MHz;	
Bluetooth Version	Bluetooth 4.0 (dual mode)	
Antenna Type and Gain	PCB Antenna, 0 dBi	

Table 3: RF Channel and Frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	/	/

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2424.00	20	2444.00	30	2464.00
01	2404.00	11	2426.00	21	2446.00	31	2466.00
02	2406.00	12	2428.00	22	2448.00	32	2468.00
03	2408.00	13	2430.00	23	2450.00	33	2470.00
04	2410.00	14	2432.00	24	2452.00	34	2472.00
05	2412.00	15	2434.00	25	2454.00	35	2474.00
06	2414.00	16	2436.00	26	2456.00	36	2476.00
07	2416.00	17	2438.00	27	2458.00	37	2478.00
08	2418.00	18	2440.00	28	2460.00	38	2480.00
09	2420.00	19	2442.00	29	2462.00	39	2464.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On,
 - 1. Bluetooth mode (BDR & EDR mode)
 - a. Transmitting
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
 - b. Receiving
 - 2. Bluetooth mode (Low Energy mode)
 - a. Transmitting
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
 - b. Receiving
- B. On, Transmitting on Hopping channel
- C. On, Bluetooth connecting mode
- D. AUX input
- E. Charging
- F. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|---------------------------|----------------------|
| - Model Difference Letter | - User Manual |
| - Circuit Diagram | - Block Diagram |
| - PCB Layout | - Instruction Manual |
| - Bill of Material | - Rating Label |
| - Operation Description | - Photo Document |
| - FCC label and location | - Application form |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level.

The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014

According to clause 3.1, all tests were performed on model **BTD01A-A** in this report.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
PC	LENOVO	9702	100-240Vac, 50/60Hz
LCD Monitor	LENOVO	9227-AE6	100-240Vac, 50/60Hz
Keyboard	LENOVO	KU-0225	USB Operated
Mouse	LENOVO	MO28UOL	USB Operated
AC/DC Adapter	HUONIU	HNEB050200EU	100-240Vac, 50/60Hz

4.4 Countermeasures to Achieve EMC Compliance

Additional countermeasures to the submitted test sample(s) for Radiated Emission were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

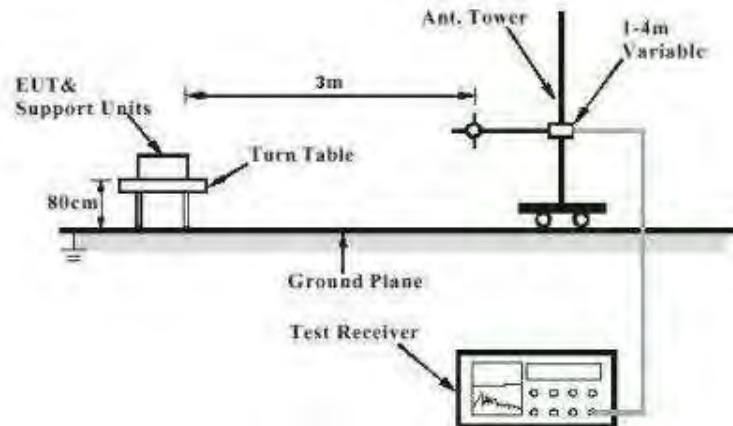


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

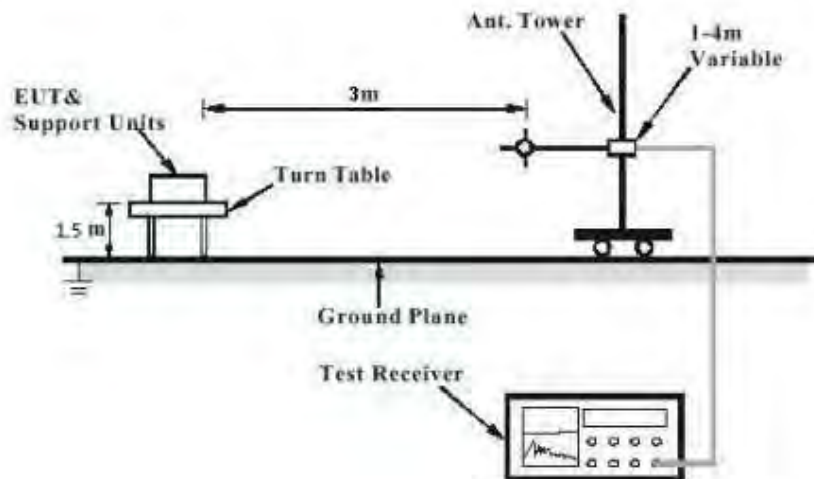


Diagram of Measurement Configuration for Mains Conduction Measurement

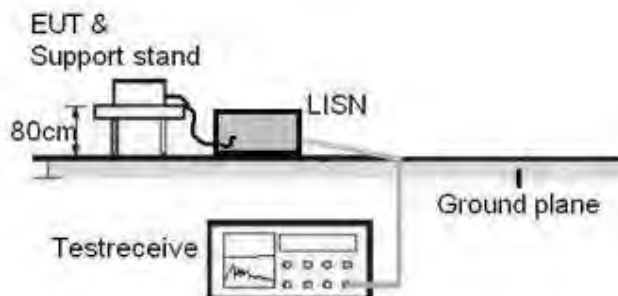
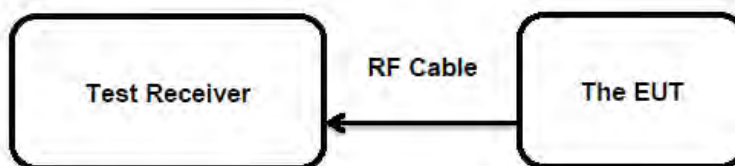


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard	: FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 6.7
Limits	: the use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Conducted Output Power**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(b)(1)&(3) RSS-247 Clause 5.4(2)&(4)
Basic standard	: ANSI C63.10: 2013
Limits	: BDR & EDR: 0.125 Watts Low Energy: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 23.07.2015
Input voltage	: AC 120V, 60Hz via AC input of Notebook
Operation mode	: A.1.a, A.2.a (see 3.3)
Test channel	: Low / Middle/ High
Ambient temperature	: 25°C
Relative humidity	: 56%
Atmospheric pressure	: 101 kPa

Table 5: Test Result of Peak Conducted Output Power, BDR

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	3.128	0.00205	0.125
Middle Channel	2441	5.529	0.00357	0.125
High Channel	2480	6.286	0.00425	0.125

Table 6: Test Result of Peak Conducted Output Power, EDR

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	1.381	0.00137	0.125
Middle Channel	2441	3.905	0.00246	0.125
High Channel	2480	4.781	0.00301	0.125

Table 7: Test Result of Peak Conducted Output Power, Low Energy

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	5.085	0.00322	1.0
Middle Channel	2440	6.493	0.00446	1.0
High Channel	2480	7.160	0.00520	1.0

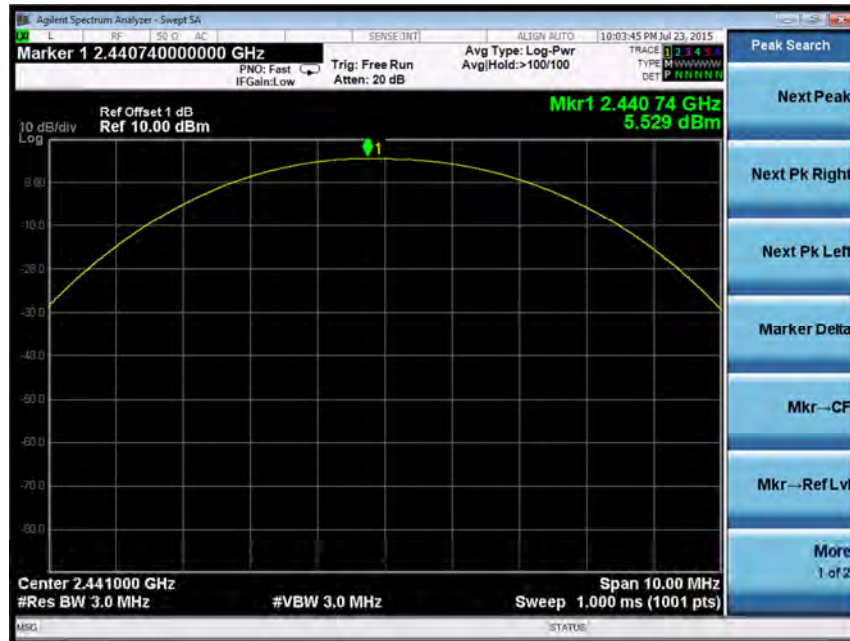
For the measurement records, refer to following test plot:

Test Plot of Peak Conducted Output Power, BDR

Low channel:



Middle channel:



High channel:



Test Plot of Peak Conducted Output Power, EDR

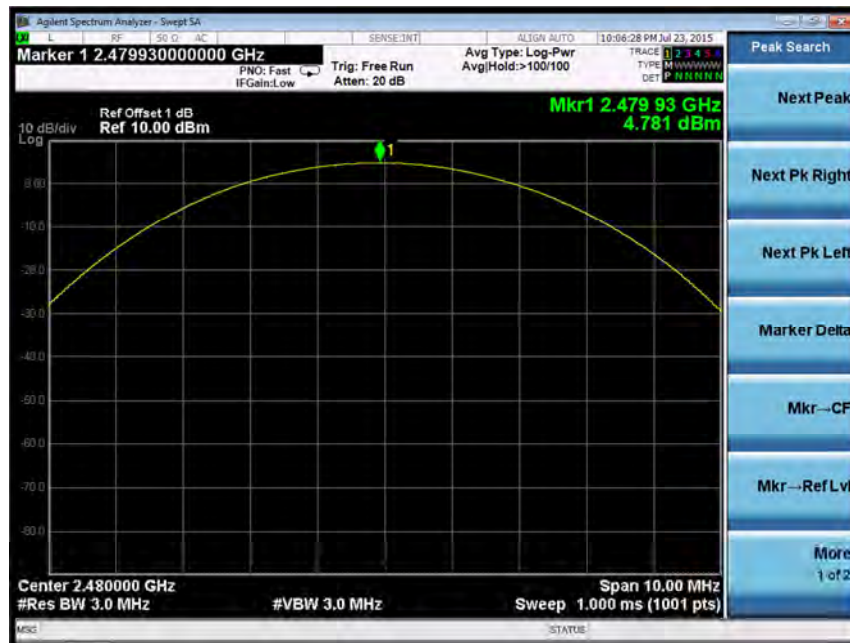
Low channel:



Middle channel:



High channel:

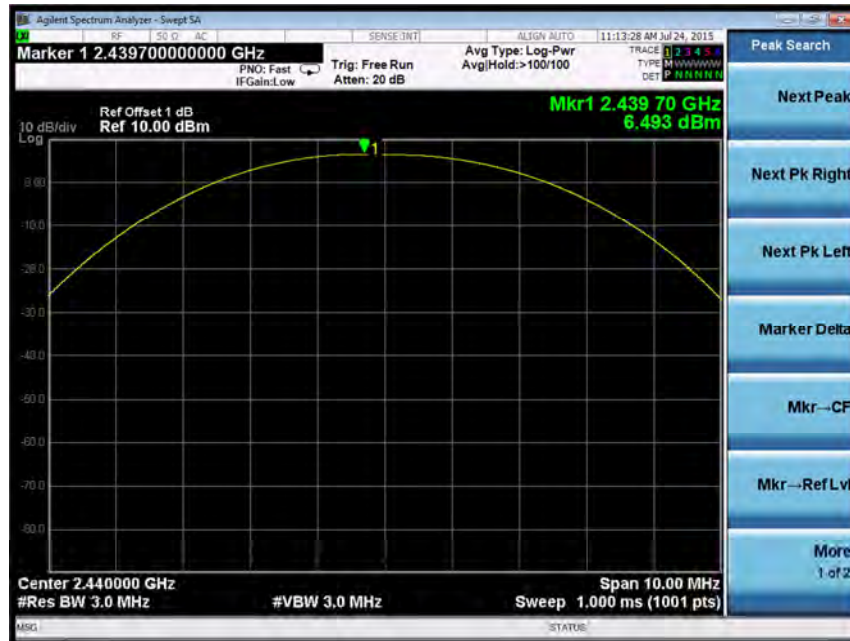


Test Plot of Peak Conducted Output Power, Low Energy

Low channel:



Middle channel:



High channel:



5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(e)
RSS-247 Clause 5.2(2)

Basic standard : ANSI C63.10: 2013

Limits : 8 dBm/3kHz

Kind of test site : Shielded Room

Test Setup

Date of testing : 24.07.2015

Input voltage : AC 120V, 60Hz via AC input of Notebook

Operation mode : A.2.a (see 3.3)

Test channel : Low / Middle/ High

Ambient temperature : 25°C

Relative humidity : 56%

Atmospheric pressure : 101 kPa

Table 8: Test Result of Power Spectral Density, Low Energy

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2402	-10.722	8.0
Middle Channel	2440	-9.051	8.0
High Channel	2480	-8.324	8.0

For the measurement records, refer to following test plot:

Test Plot of Power Spectral Density, Low Energy

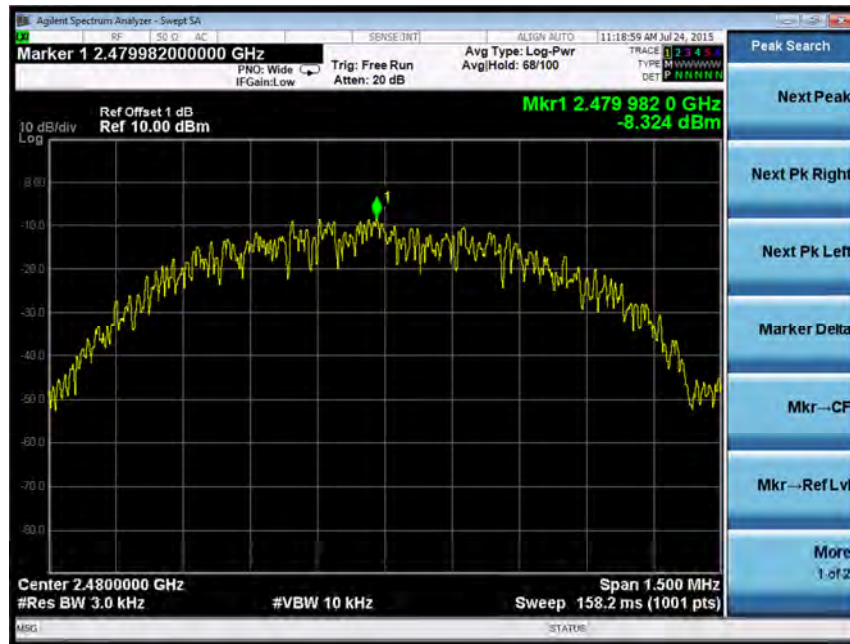
Low channel:



Middle channel:



High channel:



5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(2)
RSS-247 Clause 5.2(1)
Basic standard : ANSI C63.10: 2013
Limits : More than 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 24.07.2015
Input voltage : AC 120V, 60Hz via AC input of Notebook
Operation mode : A.2.a (see 3.3)
Test channel : Low / Middle/ High
Ambient temperature : 25°C
Relative humidity : 56%
Atmospheric pressure : 101 kPa

Table 9: Test Result of 6dB Bandwidth, Low Energy

Channel	Channel Frequency (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	697.6	500	Pass
Middle Channel	2440	699.5	500	Pass
High Channel	2480	695.4	500	Pass

For the measurement records, refer to following test plot:

Test Plot of 6dB Bandwidth, Low Energy

Low channel:



Middle channel:



High channel:



5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : RSS-Gen Clause 6.6
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 24.07.2015
Input voltage : AC 120V, 60Hz via AC input of Notebook
Operation mode : A.1.a , A.2.a (see 3.3)
Test channel : Low / Middle/ High
Ambient temperature : 25°C
Relative humidity : 56%
Atmospheric pressure : 101 kPa

Table 10: Test Result of 99% Bandwidth, BDR mode

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	843.40	/	Pass
Middle Channel	2441	834.87	/	Pass
High Channel	2480	836.50	/	Pass

Table 11: Test Result of 99% Bandwidth, EDR mode

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	1145.80	/	Pass
Middle Channel	2441	1141.10	/	Pass
High Channel	2480	1141.60	/	Pass

Table 12: Test Result of 99% Bandwidth, Low Energy

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	1030.00	/	Pass
Middle Channel	2440	1025.20	/	Pass
High Channel	2480	1023.50	/	Pass

For the measurement records, refer to following test plot:

Test Plot of 99% Bandwidth, BDR

Low channel:



Middle channel:



High channel:

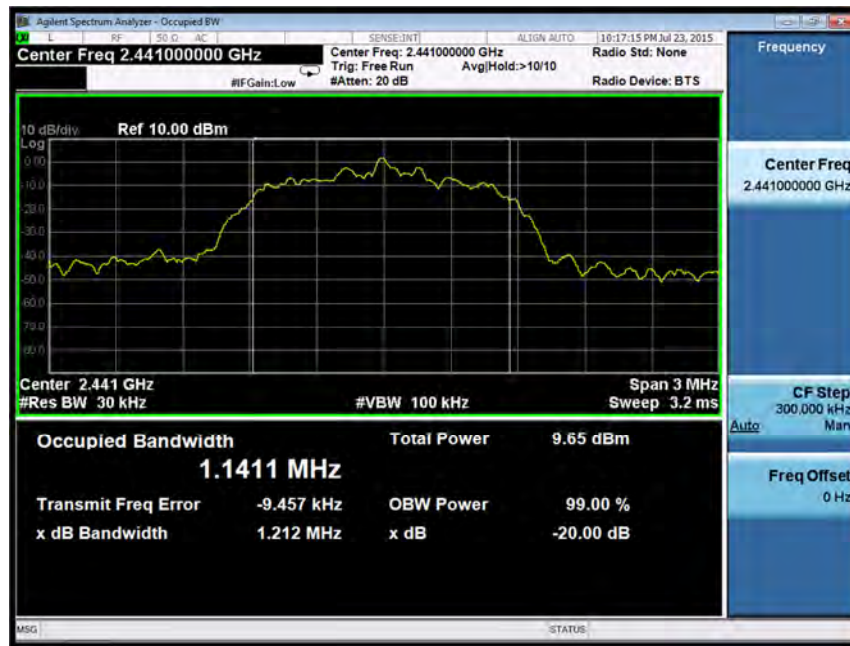


Test Plot of 99% Bandwidth, EDR

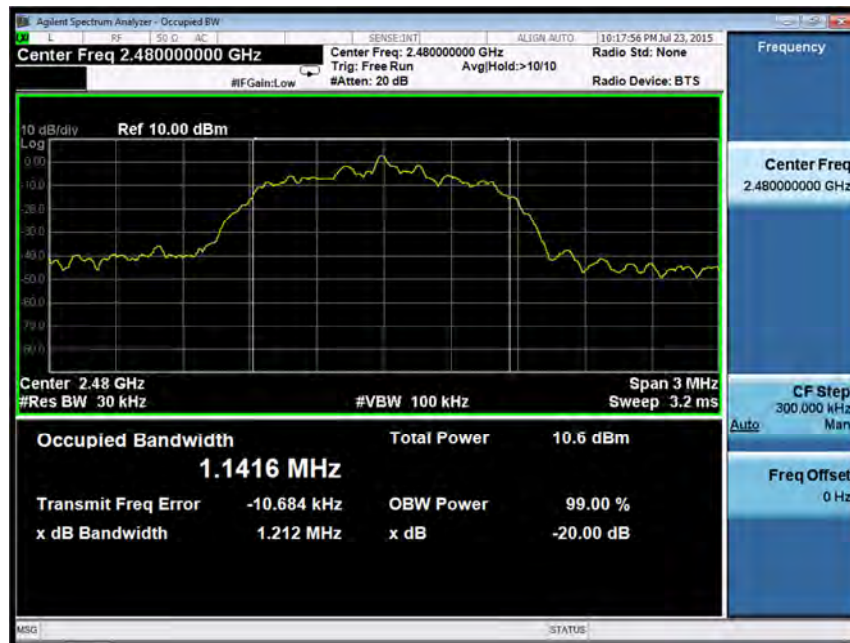
Low channel:



Middle channel:



High channel:



Test Plot of 99% Bandwidth, Low Energy

Low channel:



Middle channel:



High channel:



5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 24.07.2015
Input voltage	: AC 120V, 60Hz via AC input of Notebook
Operation mode	: A.1.a, A.2.a (see 3.3)
Test channel	: Low / Middle/ High
Ambient temperature	: 25°C
Relative humidity	: 56%
Atmospheric pressure	: 101 kPa

All emissions are more than 20dB below fundamental, compliance is achieved as well.

For the measurement records, refer to following test plot:

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low channel:



Middle channel:



High channel:



Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



High channel:



Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low channel:



Middle channel:



High channel:



Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



High channel:



Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of Low Energy

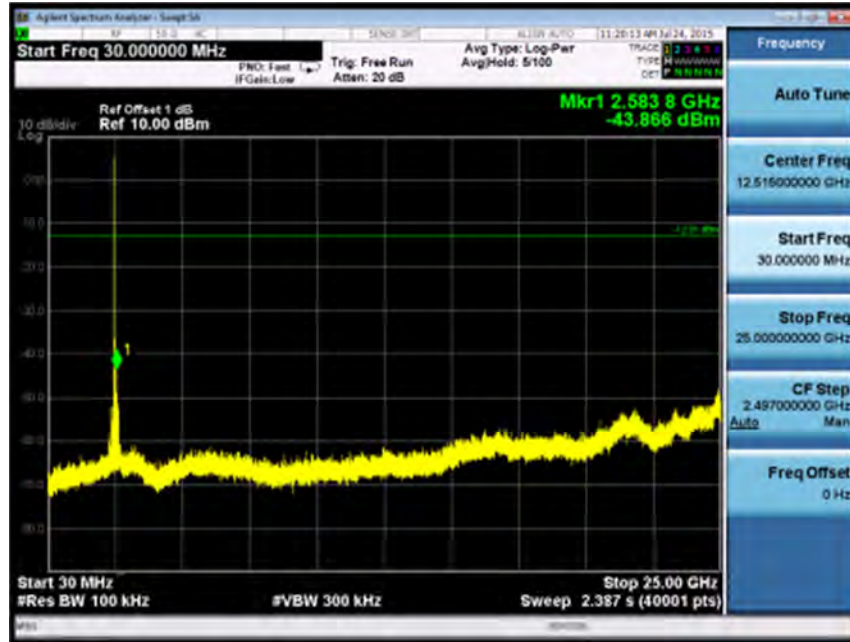
Low channel:



Middle channel:



High channel:



Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



High channel:



5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d), FCC Part 15.205 RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4
Kind of test site	: 3m Semi-anechoic chamber

Test Setup

Date of testing	: 24.07.2015
Input voltage	: AC 120V, 60Hz via AC input of Notebook
Operation mode	: A.1.a, A.2.a (see 3.3)
Test channel	: Low / Middle/ High
Ambient temperature	: 25°C
Relative humidity	: 56%
Atmospheric pressure	: 101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix 1.

5.1.8 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(1)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 23.07.2015
Input voltage : AC 120V, 60Hz via AC input of Notebook
Operation mode : A.1.a (see 3.3)
Test channel : Low / Middle/ High
Ambient temperature : 25°C
Relative humidity : 56%
Atmospheric pressure : 101 kPa

Table 13: Test Result of 20dB Bandwidth, BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	843.40	562.267	/	Pass
Middle Channel	2441	834.87	556.580	/	Pass
High Channel	2480	836.50	557.667	/	Pass

Table 14: Test Result of 20dB Bandwidth, EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1145.80	763.867	/	Pass
Middle Channel	2441	1141.11	760.740	/	Pass
High Channel	2480	1141.60	761.067	/	Pass

For the measurement records, refer to following test plot:

Test Plot of 20dB Bandwidth, BDR

Low channel:



Middle channel:



High channel:

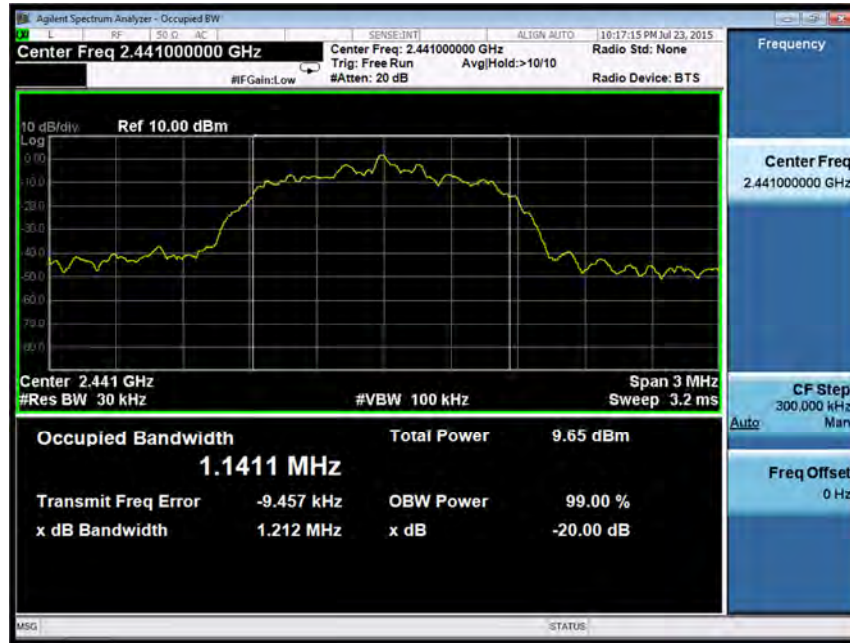


Test Plot of 20dB Bandwidth, EDR

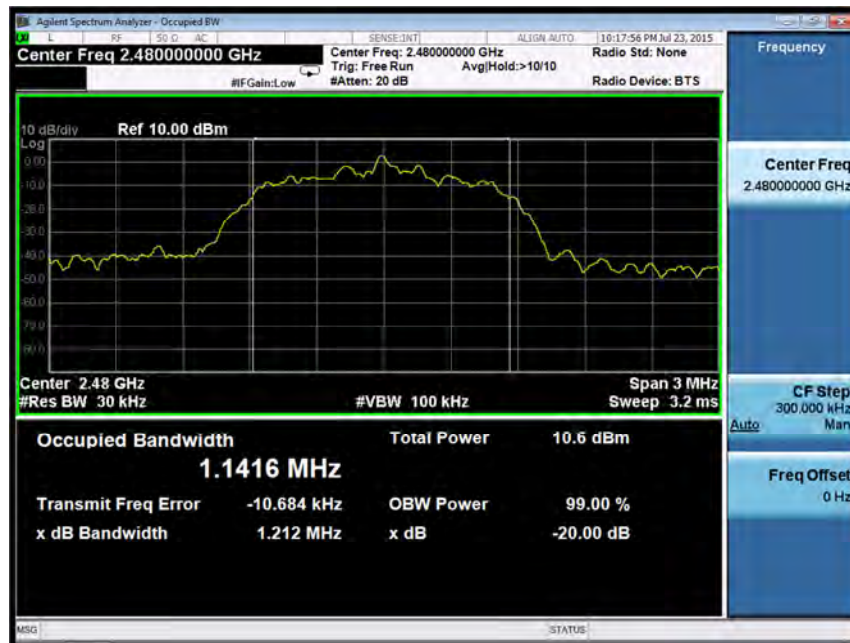
Low channel:



Middle channel:



High channel:



5.1.9 Carrier Frequency Separation

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(1) RSS-247 Clause 5.1(2)
Basic standard	: ANSI C63.10: 2013
Limits	: $\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 23.07.2015
Input voltage	: AC 120V, 60Hz via AC input of Notebook
Operation mode	: A.1.a (see 3.3)
Test channel	: Low / Middle/ High
Ambient temperature	: 25°C
Relative humidity	: 56%
Atmospheric pressure	: 101 kPa

Table 15: Test Result of Carrier Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402	999.0	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Middle Channel	2441	1002.0		Pass
Adjacency Channel	2442			
High Channel	2480	990.0		Pass
Adjacency Channel	2479			

Note:

The limit is maximum 2/3 of the 20 dB bandwidth: 763.867 KHz.

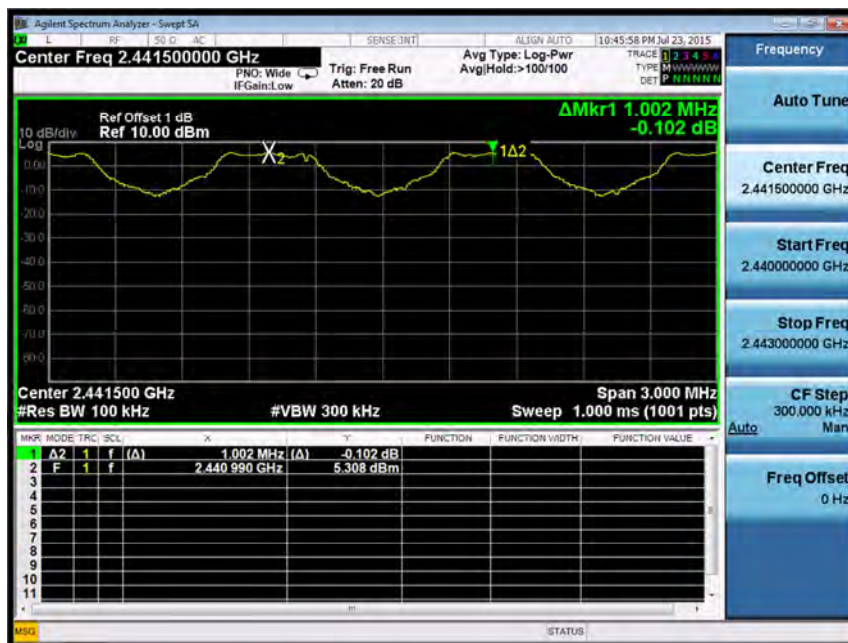
For the measurement records, refer to following test plot:

Test Plot of Carrier Frequency Separation

Low channel:



Middle channel:





5.1.10 Number of Hopping Frequency

RESULT:

Pass

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(4)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shielded Room

Test Setup

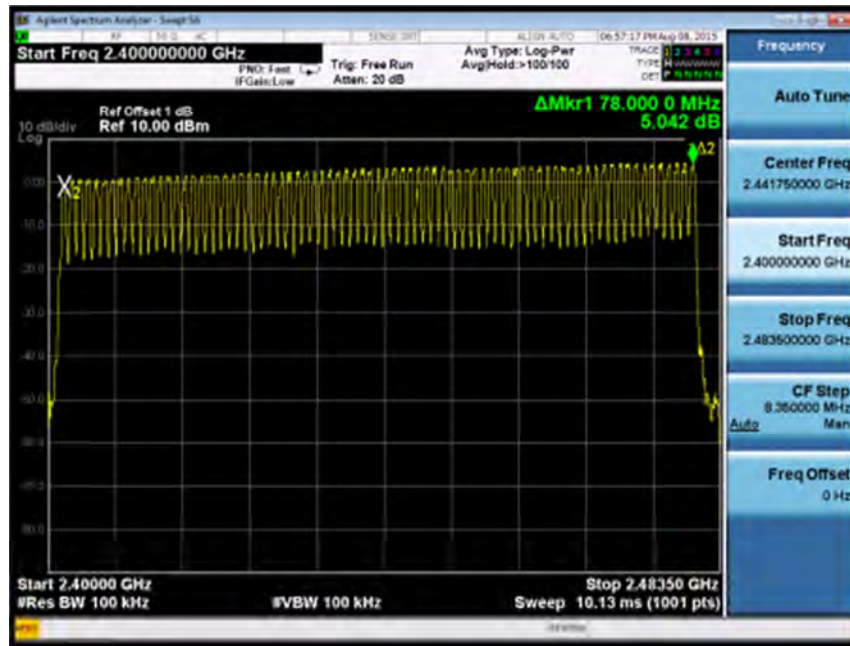
Date of testing : 22.07.2015
Input voltage : AC 120V, 60Hz via AC input of Notebook
Operation mode : B (see 3.3)
Ambient temperature : 25°C
Relative humidity : 56%
Atmospheric pressure : 101 kPa

Table 16: Test Result of Number of Hopping Frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥ 15	Pass

For the measurement records, refer to following test plot:

Test Plot of Number of hopping frequency



5.1.11 Time of Occupancy**RESULT:****Pass****Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(4)
Basic standard : ANSI C63.10: 2013
Limits : 0.4s
Kind of test site : Shielded Room

Test Setup

Date of testing : 23.07.2015
Input voltage : AC 120V, 60Hz via AC input of Notebook
Test channel : Low / Middle/ High
Operation mode : A.1.a (see 3.3)
Ambient temperature : 25°C
Relative humidity : 56%
Atmospheric pressure : 101 kPa

Table 17: Test Result of Time of Occupancy, BDR mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time(s)	Limit (s)	Result
Low Channel	DH1	0.420	0.134	0.4	Pass
	DH3	1.680	0.269	0.4	Pass
	DH5	2.930	0.313	0.4	Pass
Middle Channel	DH1	0.424	0.136	0.4	Pass
	DH3	1.680	0.269	0.4	Pass
	DH5	2.930	0.313	0.4	Pass
High Channel	DH1	0.424	0.136	0.4	Pass
	DH3	1.680	0.269	0.4	Pass
	DH5	2.930	0.313	0.4	Pass

Table 18: Test Result of Time of Occupancy, EDR mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	3DH1	0.440	0.141	0.4	Pass
	3DH3	1.687	0.270	0.4	Pass
	3DH5	2.930	0.313	0.4	Pass
Middle Channel	3DH1	0.440	0.141	0.4	Pass
	3DH3	1.687	0.270	0.4	Pass
	3DH5	2.940	0.314	0.4	Pass
High Channel	3DH1	0.440	0.141	0.4	Pass
	3DH3	1.687	0.270	0.4	Pass
	3DH5	2.950	0.315	0.4	Pass

Note:

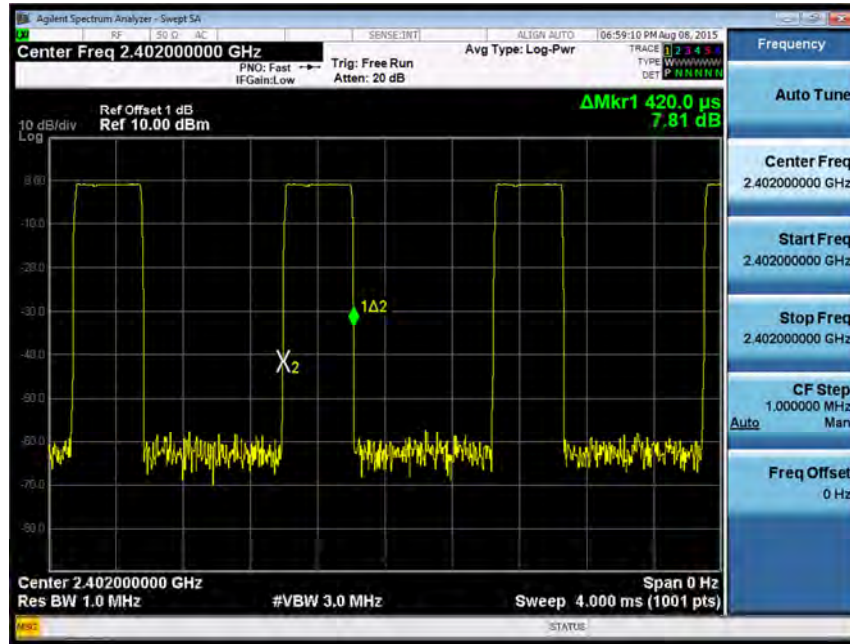
Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

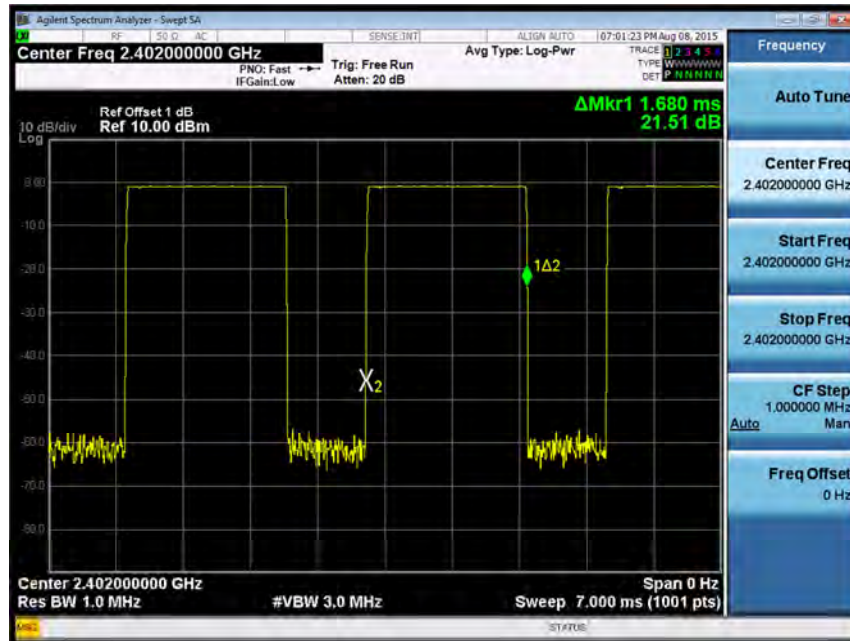
For the measurement records, refer to following test plot:

Test Plot of Time of Occupancy, BDR

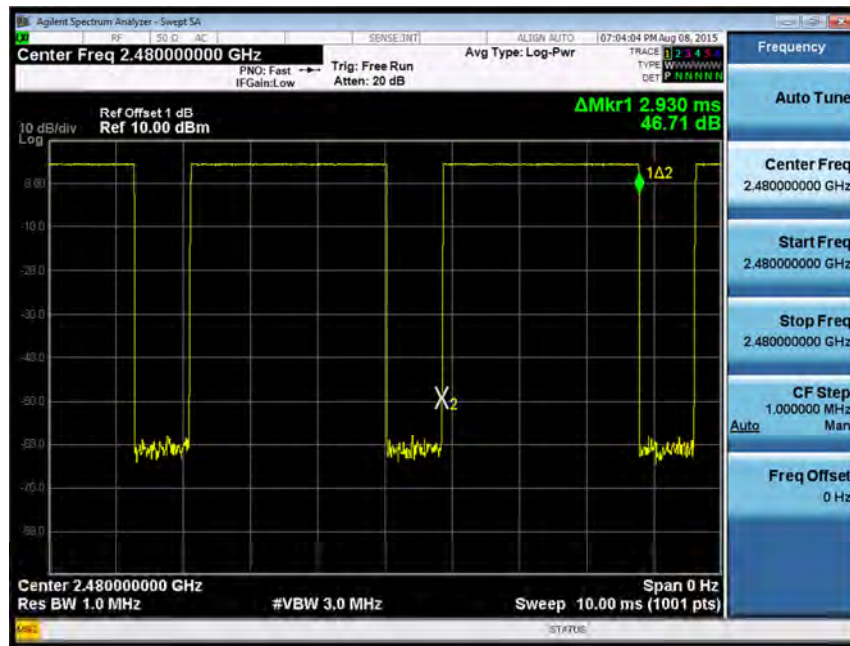
Low channel: DH1



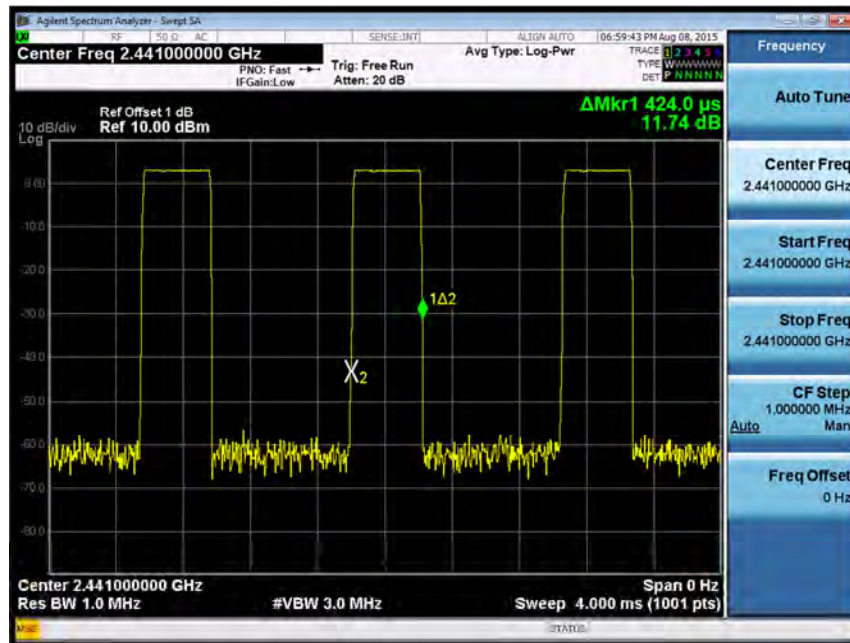
Low channel: DH3



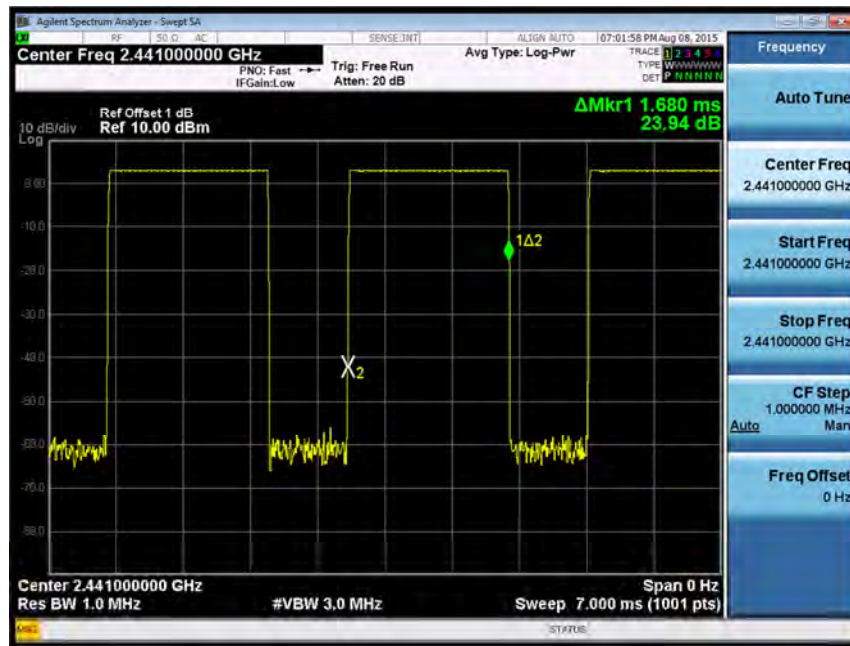
Low channel: DH5



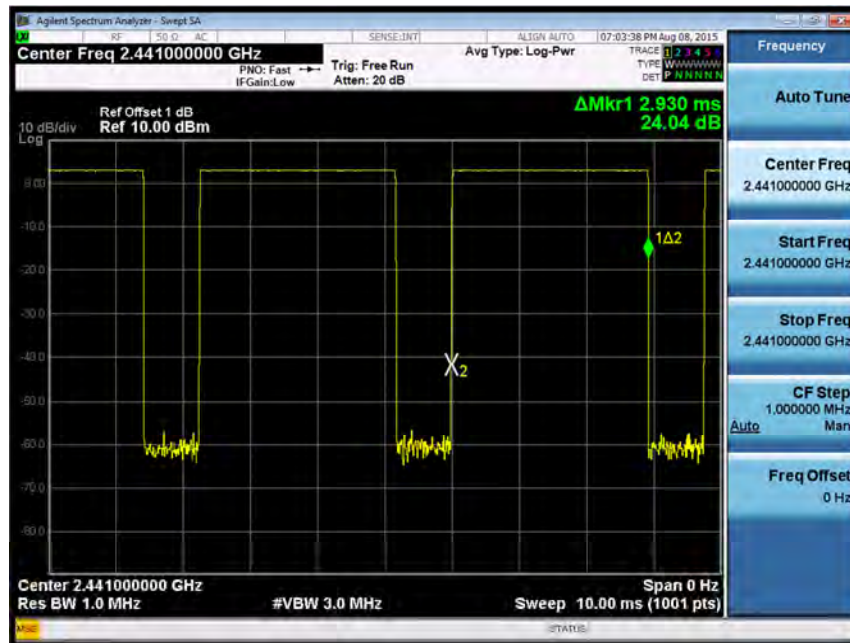
Middle channel: DH1



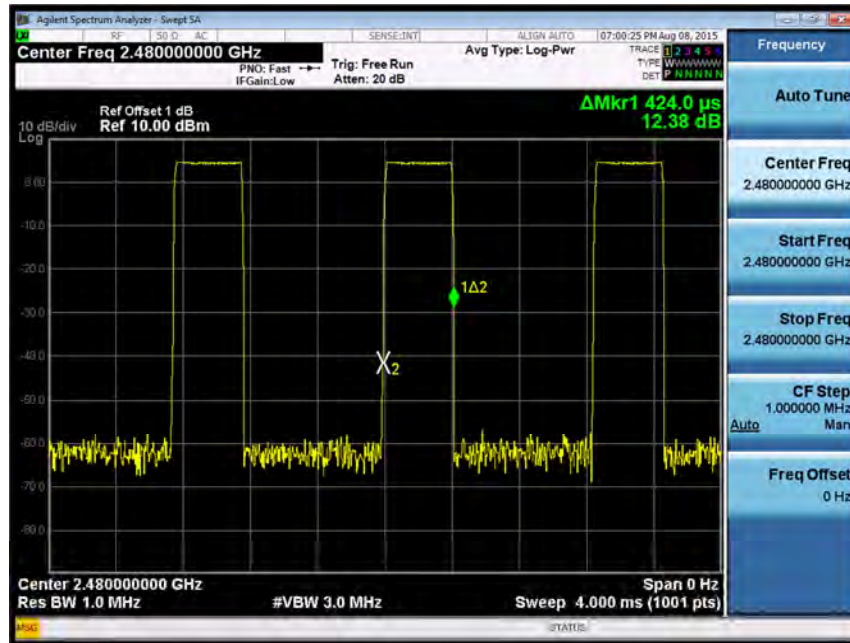
Middle channel: DH3



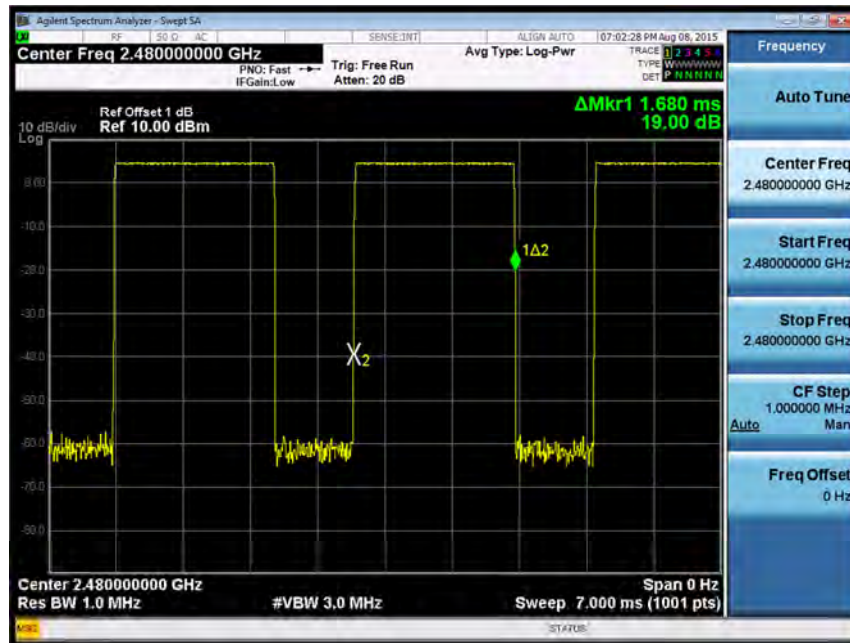
Middle channel: DH5



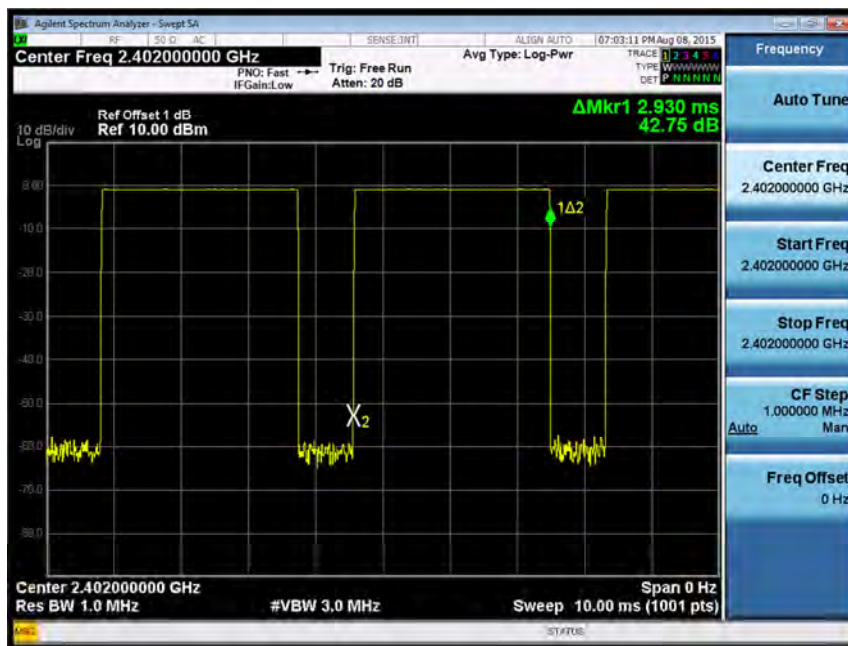
High channel: DH1



High channel: DH3

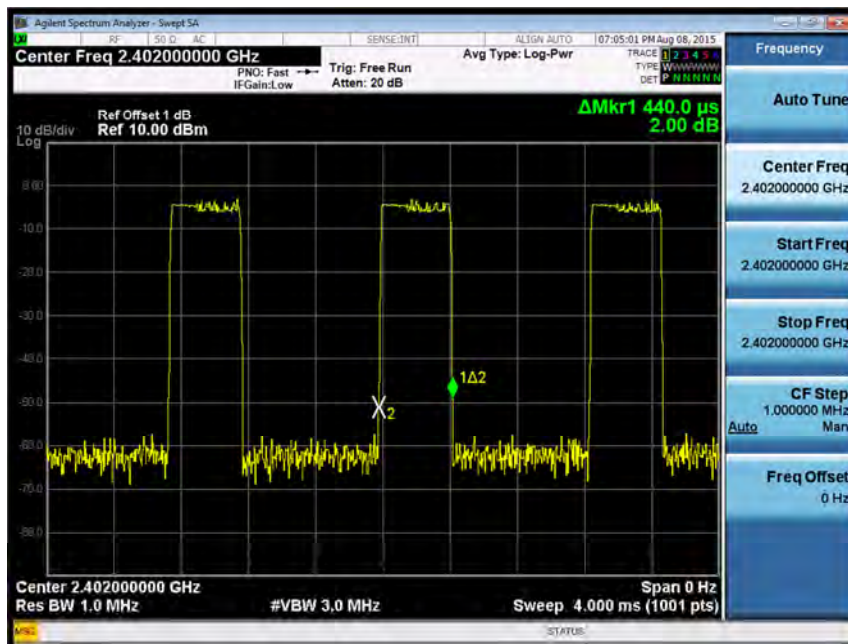


High channel: DH5

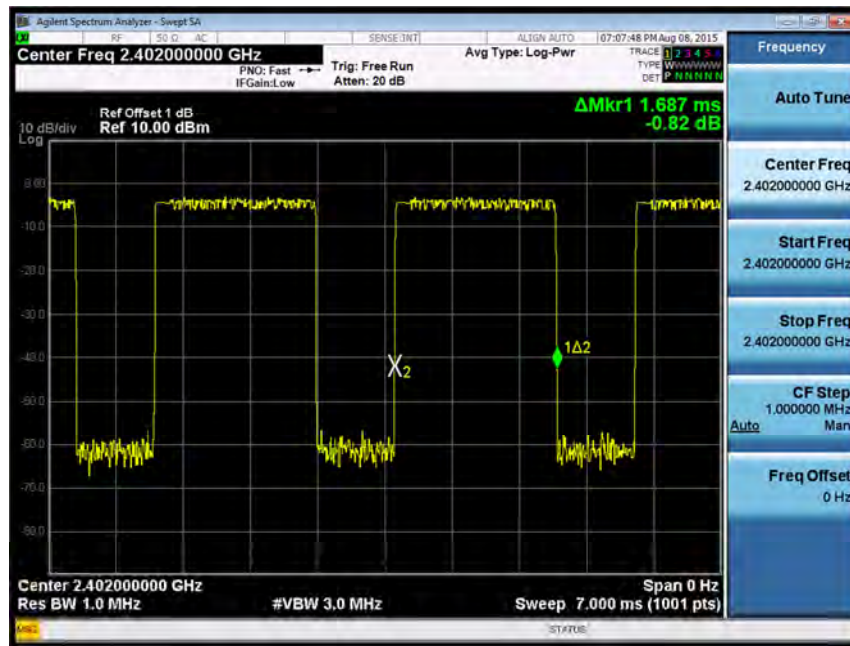


Test Plot of Time of Occupancy, EDR

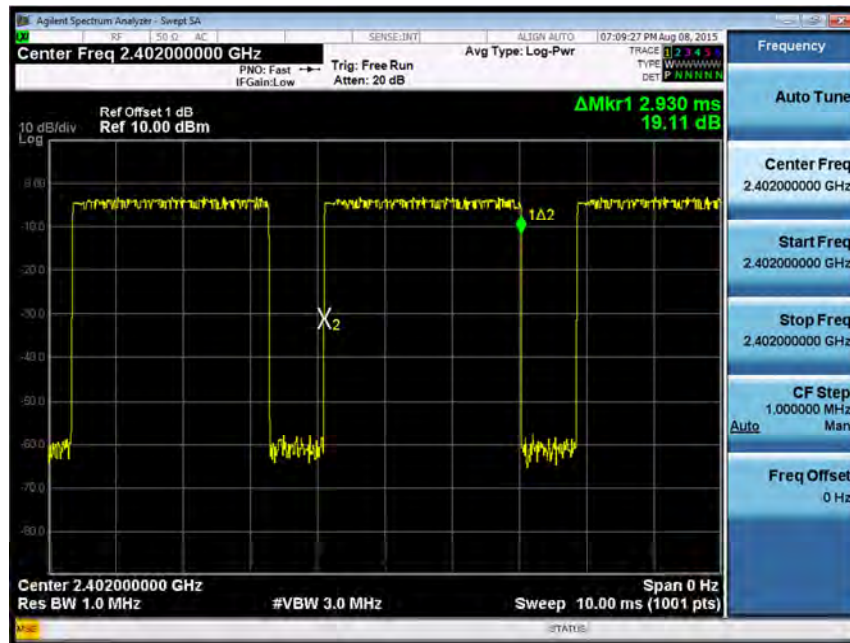
Low channel: 3DH1



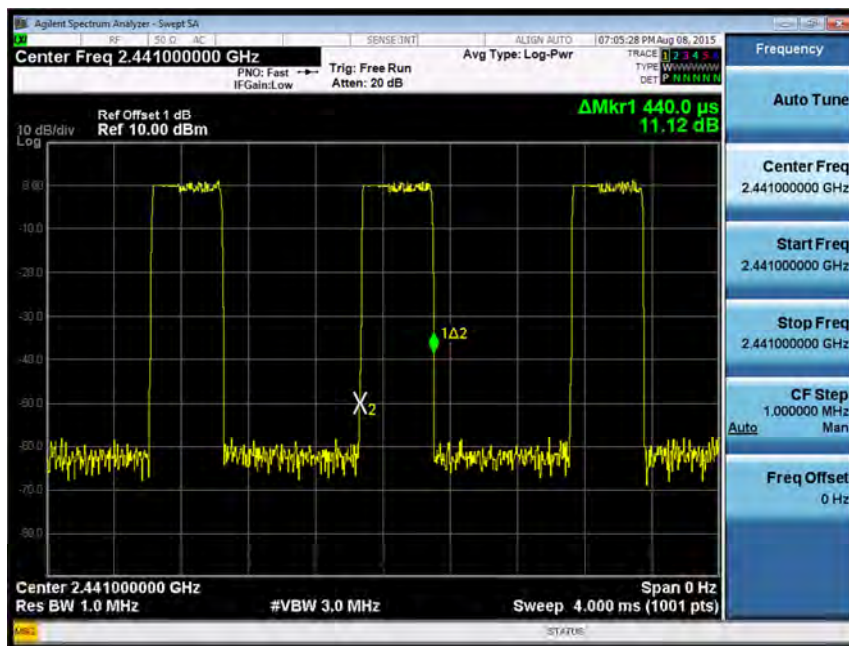
Low channel: 3DH3



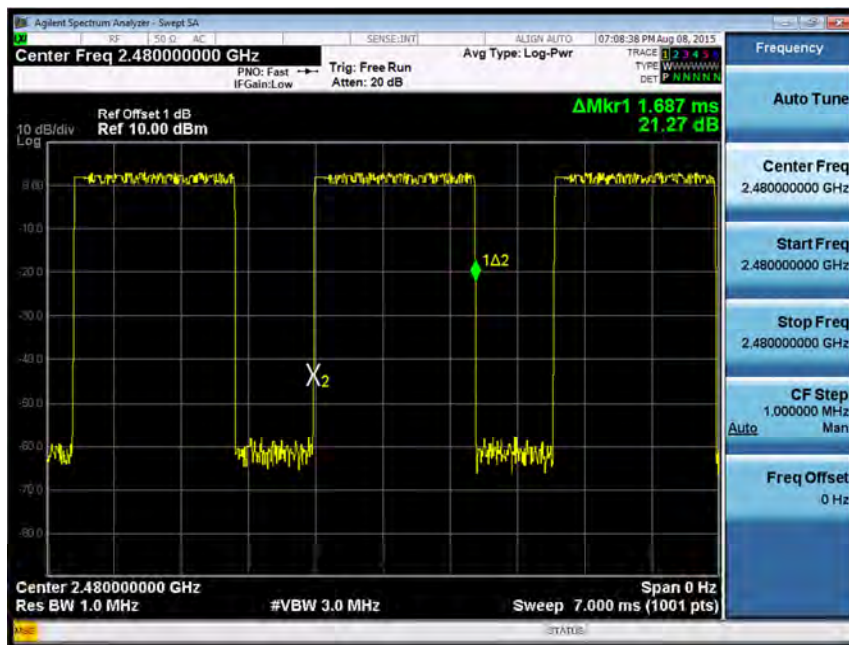
Low channel: 3DH5



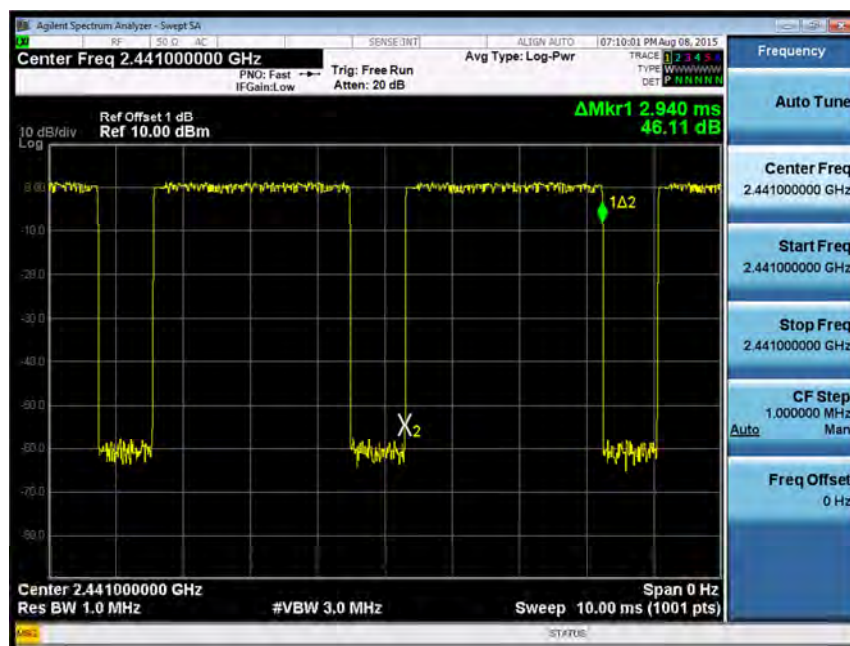
Middle channel: 3DH1



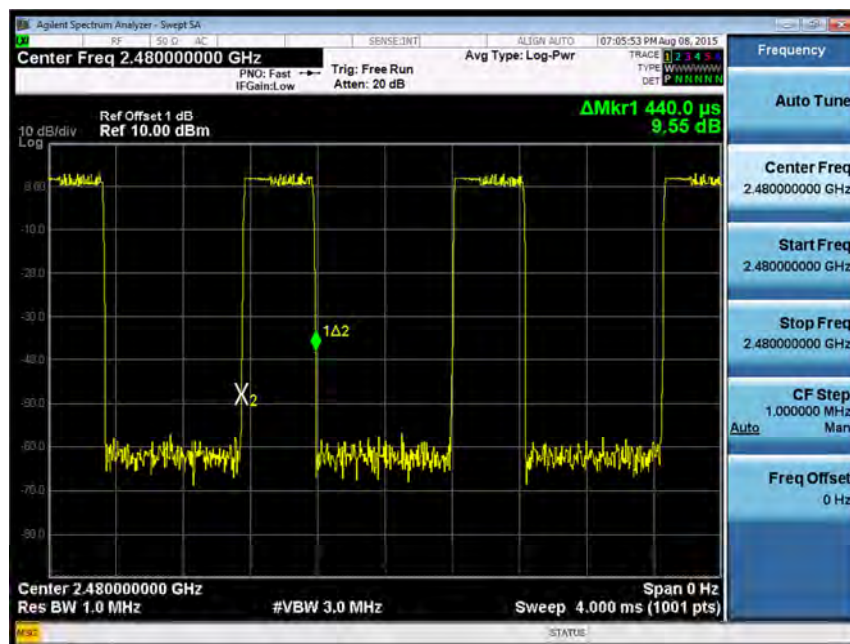
Middle channel: 3DH3



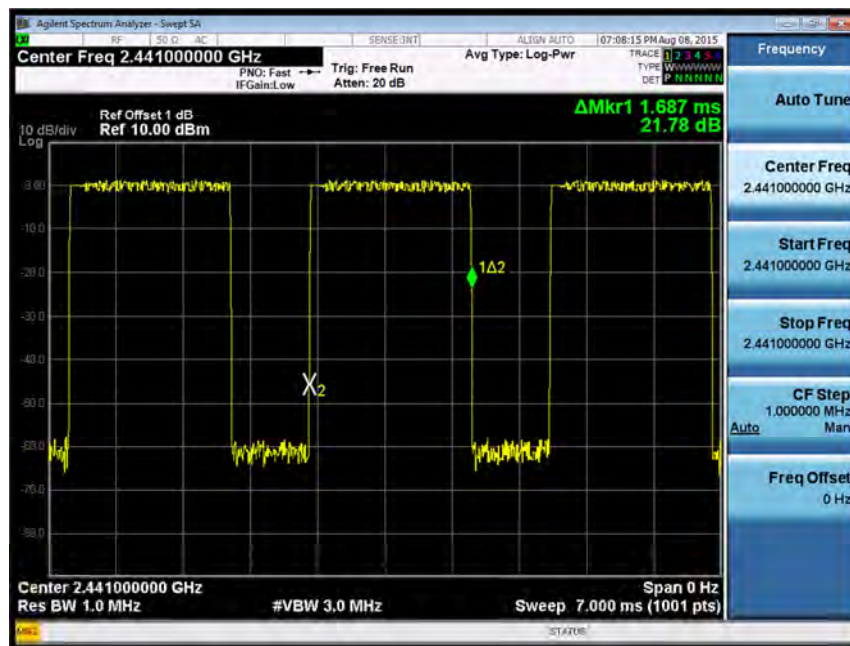
Middle channel: 3DH5



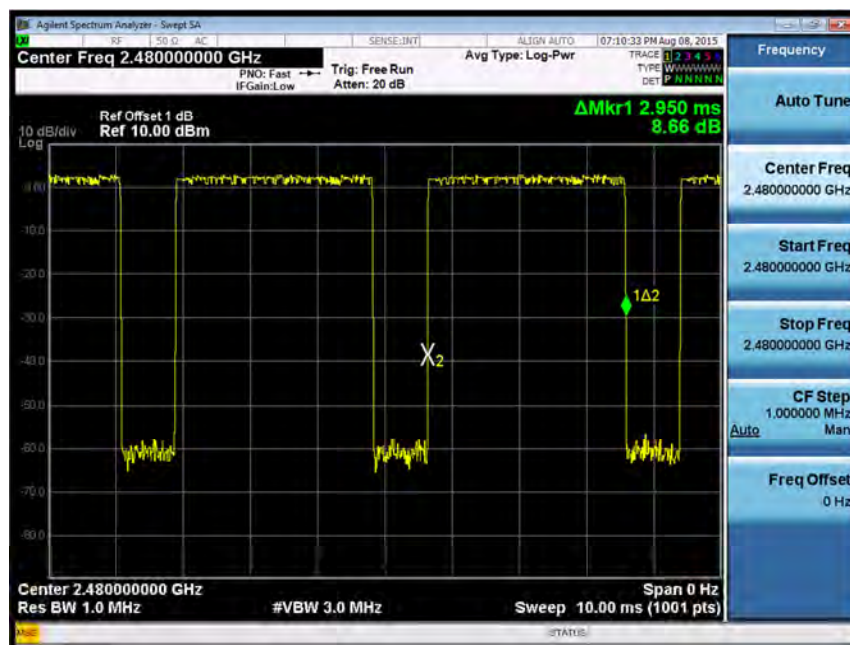
High channel: 3DH1



High channel: 3DH3



High channel: 3DH5



5.1.12 Conducted Emissions**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen 8.8 Issue 4 & ICES-003 Issue 5
Basic standard	: ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Issue 4 Table 3 & ICES-003 Issue 5 Table 2
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 29.07.2015
Input voltage	: AC 120V, 60Hz via AC/DC adapter
Operation mode	: C,D,E (see 3.3)
Earthing	: Not connected
Ambient temperature	: 25°C
Relative humidity	: 56%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 1.

5.1.13 Radiated Emission**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.109(a) ICES-003 Issue 5
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 - 6000MHz
Classification	: Class B
Limits	: FCC Part 15.109(a) ICES-003 Issue 5 Table 5 & Table 7
Kind of test site	: 3m Semi-anechoic chamber

Test Setup

Date of testing	: 27.07.2015
Input voltage	: AC 120V, 60Hz via AC/DC adapter
Operation mode	: C,D,E (see 3.3)
Earthing	: Not connected
Ambient temperature	: 23°C
Relative humidity	: 48%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 1.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass****Test Specification**

Test standard : FCC KDB Publication 447498 v05r02
RSS-102 Issue 5 March 2015

The minimum distance for the EUT is 5mm, since maximum peak output power of the transmitter is 5.20 mW <10 mW, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v05r02

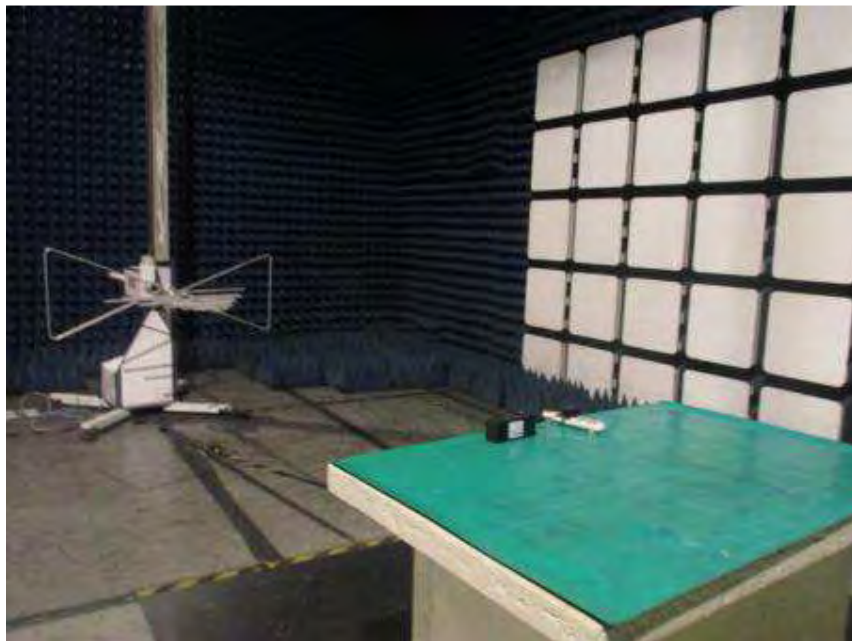
The maximum peak output power of the transmitter is 5.20 mW (7.16 dBm), only, which less than 20mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

7 Photographs of the Test Set-Up

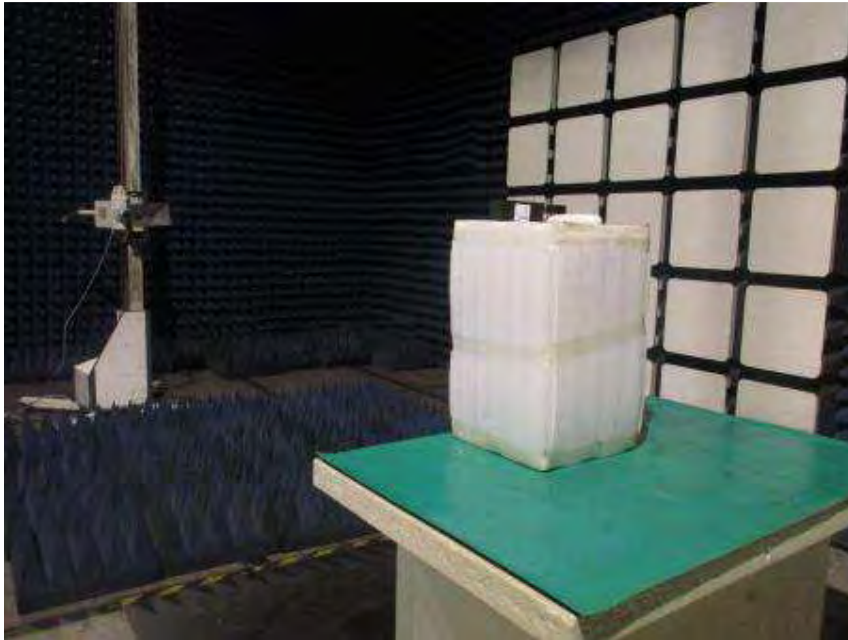
Photograph 1: Set-up for Radiated Spurious Emissions (9kHz - 30MHz)



Photograph 2: Set-up for Radiated Spurious Emissions (30MHz-1GHz)



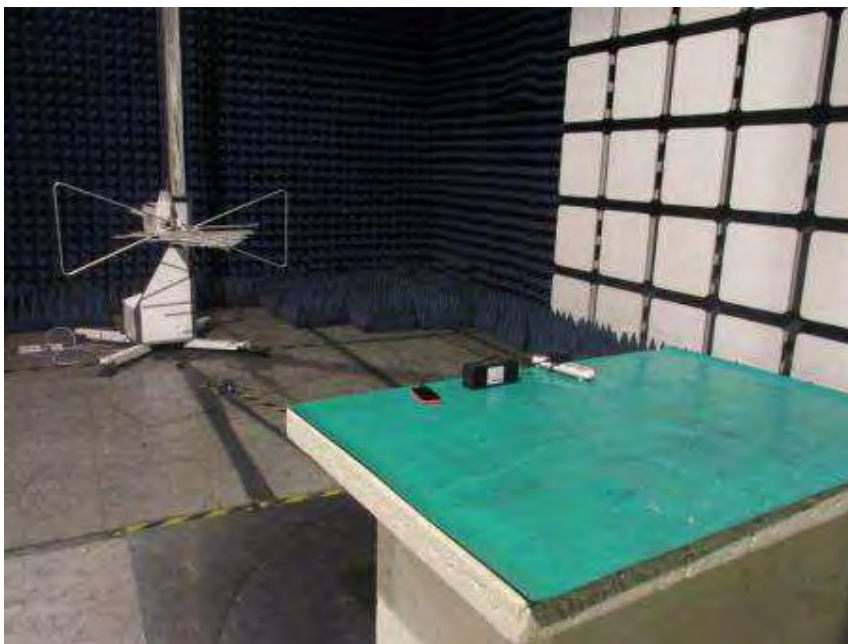
Photograph 3: Set-up for Radiated Spurious Emissions (Above 1GHz)



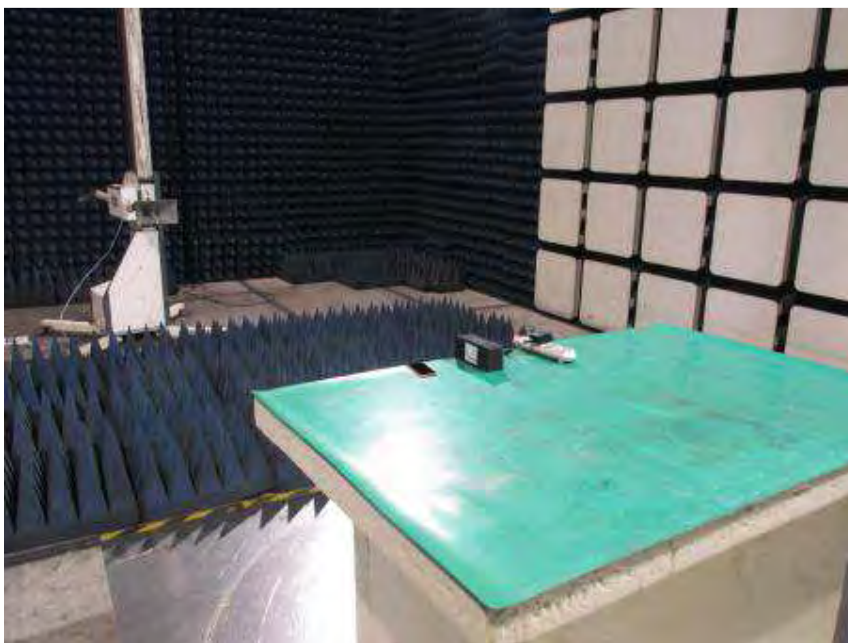
Photograph 4: Set-up for Conducted Emissions



Photograph 5: Set-up for Radiated Emission (Below 1GHz)



Photograph 6: Set-up for Radiated Emission (Above 1GHz)



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Note: The measurements with active loop antenna were greater than 20dB below the limit, so Radiated Spurious Emissions (9kHz – 30MHz) tests were applied on BDR mode only.

Figure 1: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), BDR (Low)

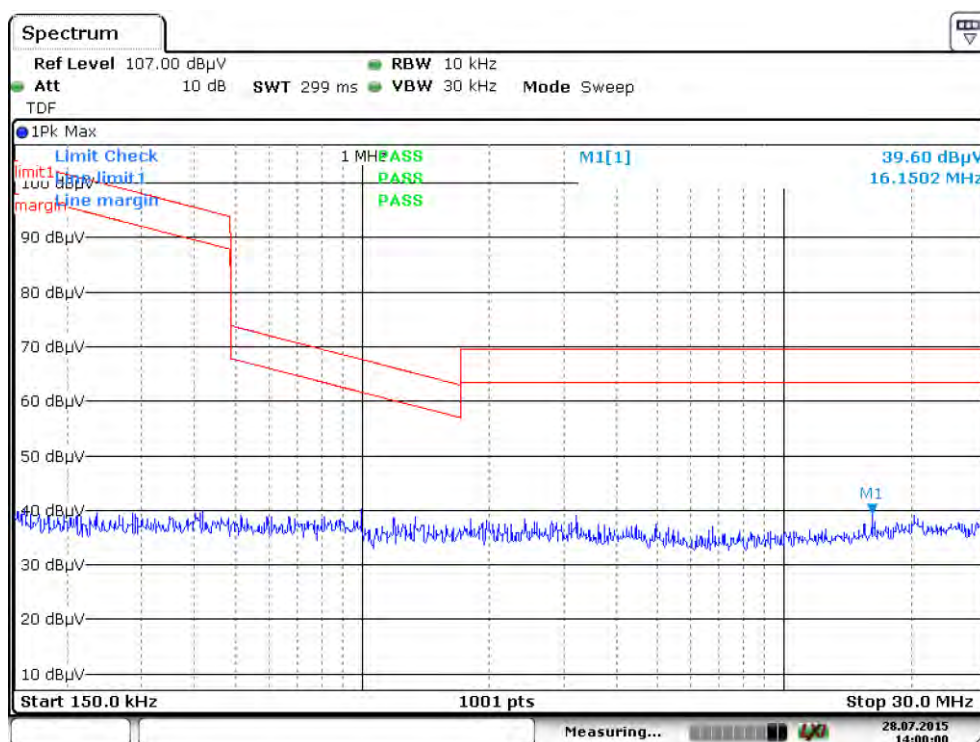
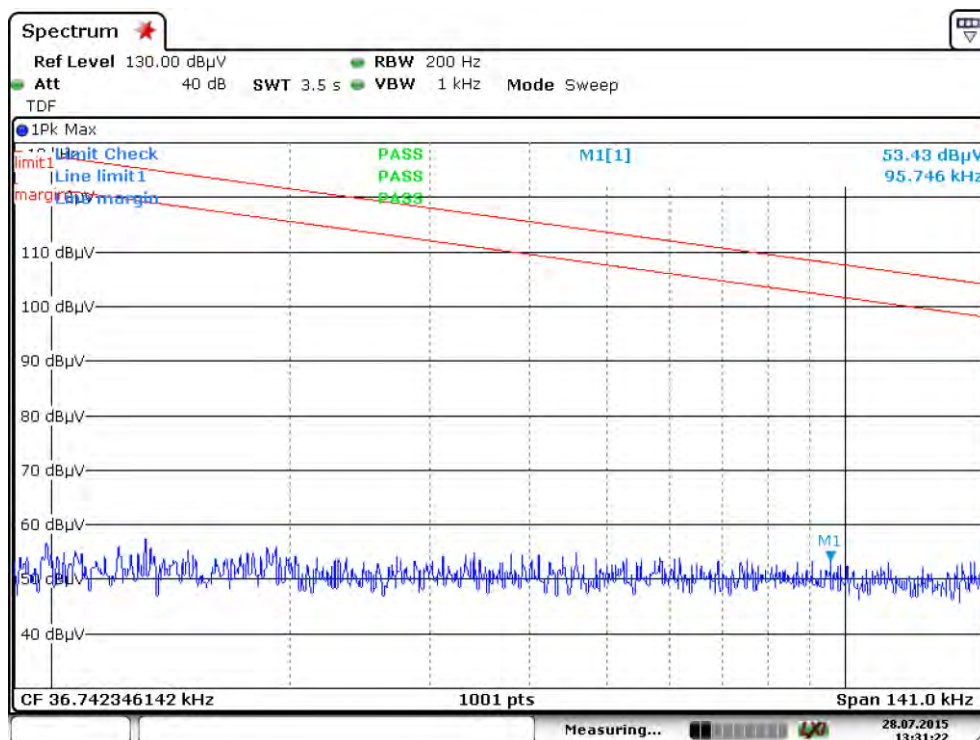
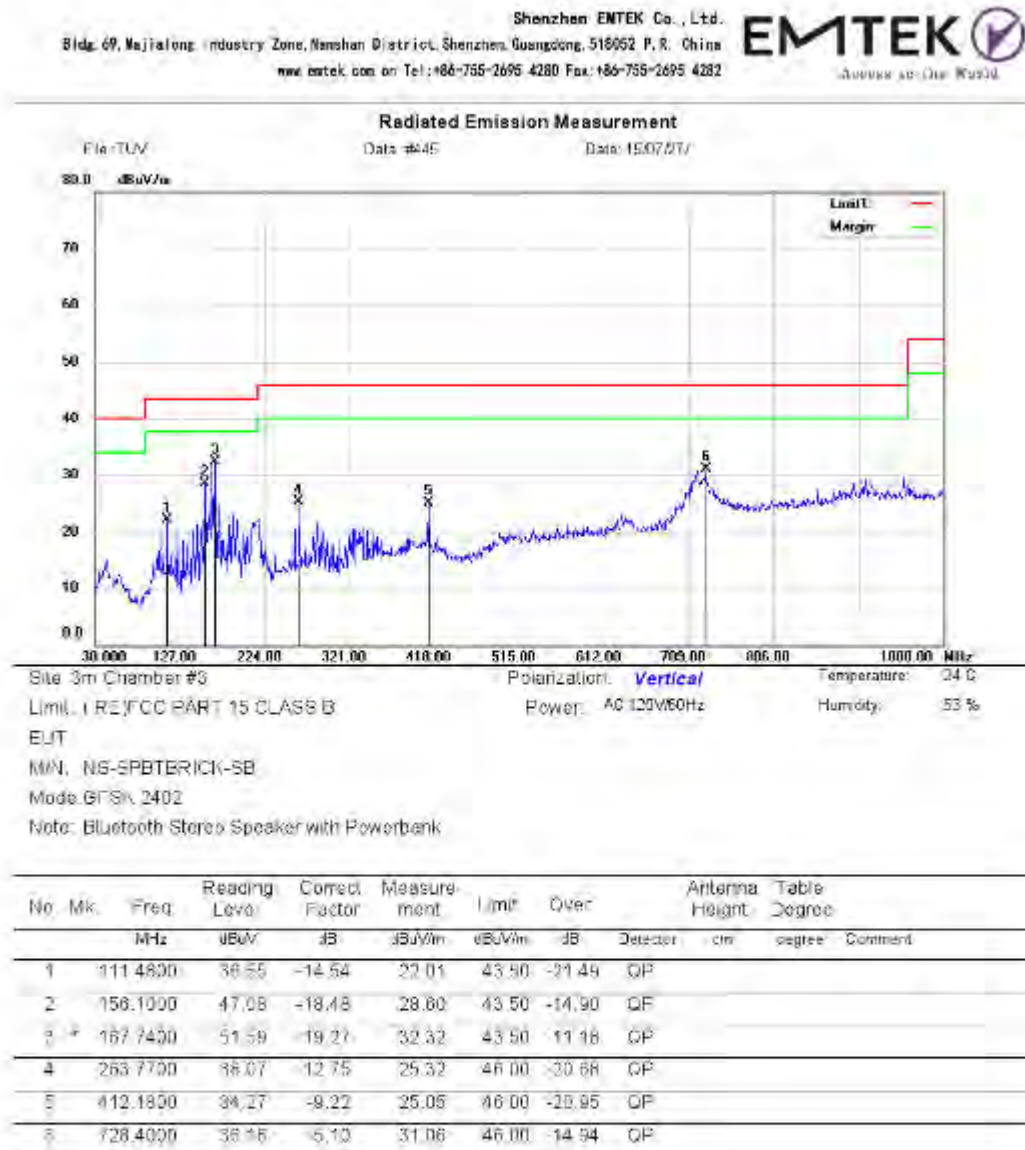


Figure 2: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), BDR (Low)



*Maximum data x: Over limit Level margin

Operator: KVV

File: TUW/Data #445

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www.enteck.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

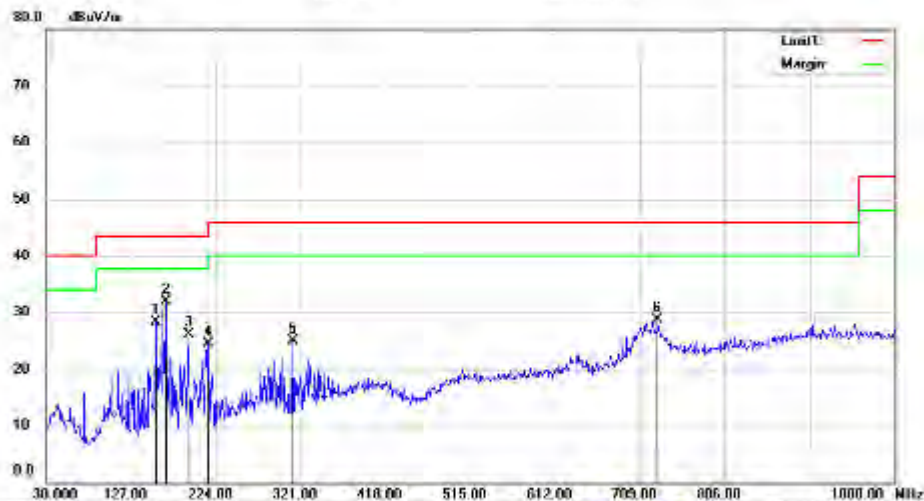


Radiated Emission Measurement

File: TUV

Data: #446

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

Model: NS-SPBTRICK-SB

Mode: GFSK, 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
										Comment
1		156.1000	46.80	-18.48	28.32	43.50	-15.18	QP		
2 *		187.7400	51.24	-19.27	31.97	43.50	-11.53	QP		
3		192.9600	43.14	-17.01	26.13	43.50	-17.37	QP		
4		215.2700	40.66	-18.38	24.58	43.50	-18.92	QP		
5		312.2700	36.49	-13.83	24.86	46.00	-21.14	QP		
6		729.3700	33.77	-5.04	28.70	46.00	-17.30	QP		

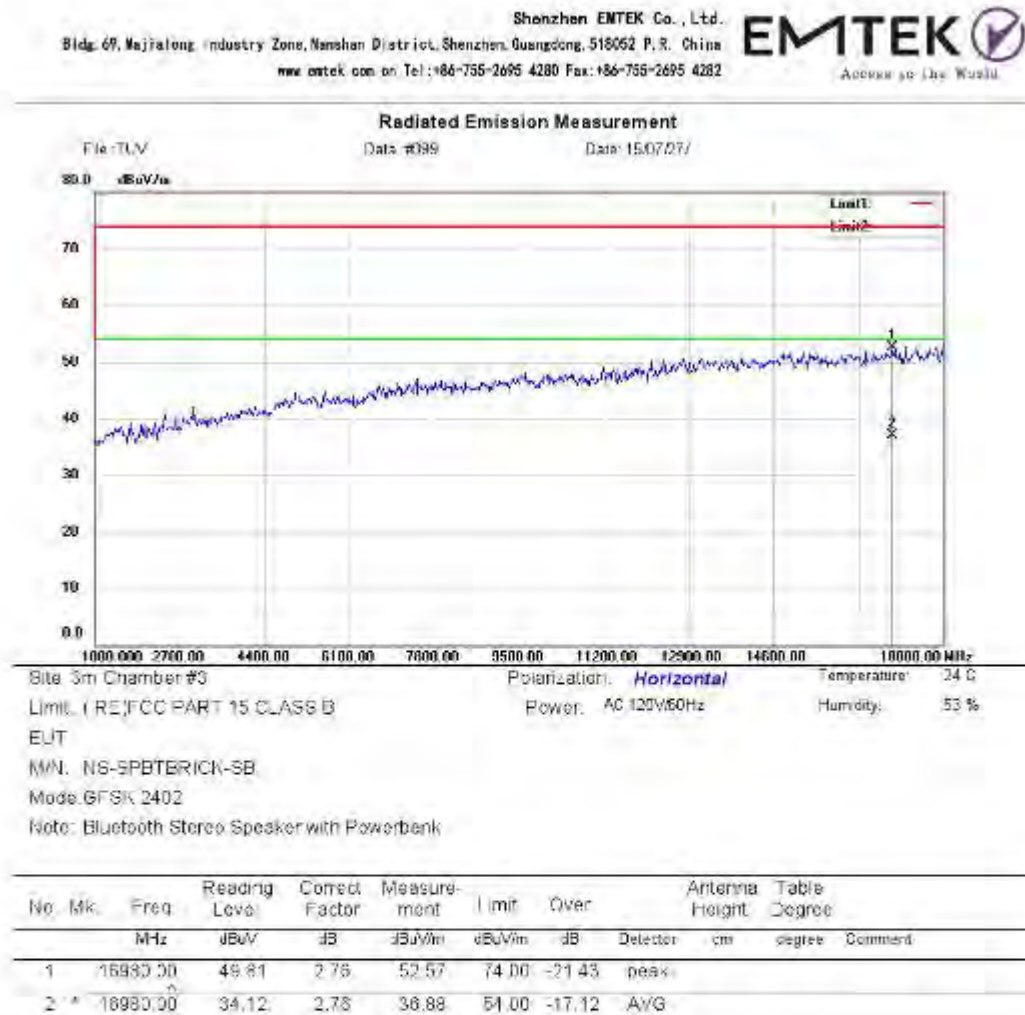
*Maximum data Over limit Lower margin

Operator: TUV

File: TUV\Data #446

Page: 4

Figure 3: Test figure of Radiated Spurious Emissions (1GHz –25GHz), BDR (Low)



*Maximum data x: Over limit Lower margin

Operator: 10x

File: TUV/Data #039

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Radiated Emission Measurement

File: TUV

Date: #400

Date: 15/07/17

30.0 $\mu\text{V/m}$



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: GFSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table
		MHz	$\mu\text{V/m}$	Factor	ment	$\mu\text{V/m}$	dB	Height	Degree
								cm	degree
1		17082.00	48.74	3.85	52.59	74.00	-21.41	peak	
2	*	17082.00	33.64	3.85	37.49	51.00	-18.51	AVG	

*Maximum data α Over limit β Lower margin

Operator: TUV

File: TUV/Data #400

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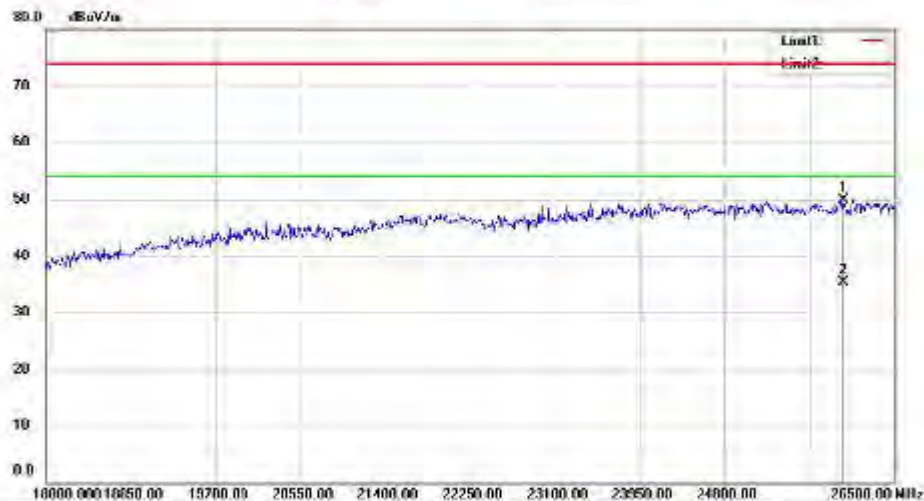


Radiated Emission Measurement

File: TUV

Date: #659

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: GFSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
				dB	dBuV/m				cm	degree
1		25990.00	85.76	-35.80	49.96	74.00	-24.04	peak		
2	*	25990.00	71.06	-35.80	35.26	54.00	-18.74	AVG		

*Maximum data x: Over limit, Lower margin

Operator: 105

File: TUVData_#659

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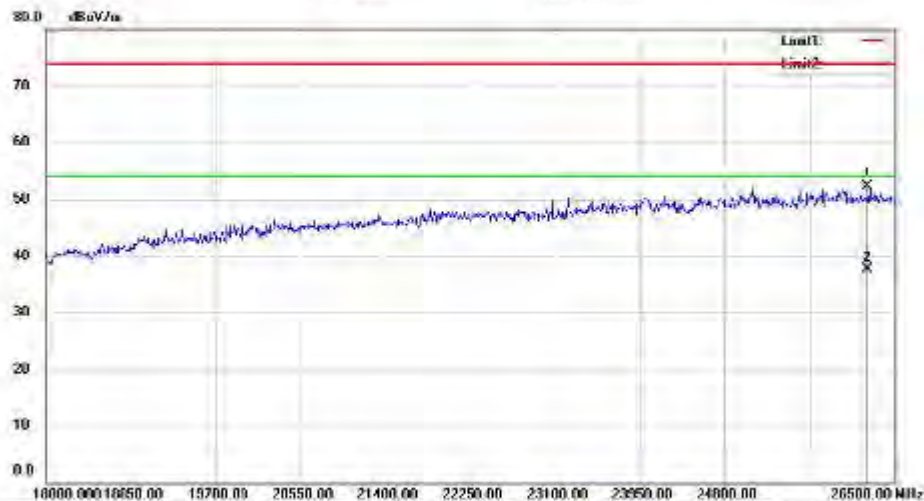


Radiated Emission Measurement

File: TUV

Date: #470

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Model: GFSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
				dB	dBuV/m				cm	degree
1		25235.50	87.74	-35.50	52.24	74.00	-21.76	peak		
2	*	25236.50	72.93	-35.50	37.43	54.00	-16.57	AVG		

* Maximum data x Over limit Lower margin

Operator: 105

File: TUVData #470

Page: 8

Figure 4: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), BDR (Mid)

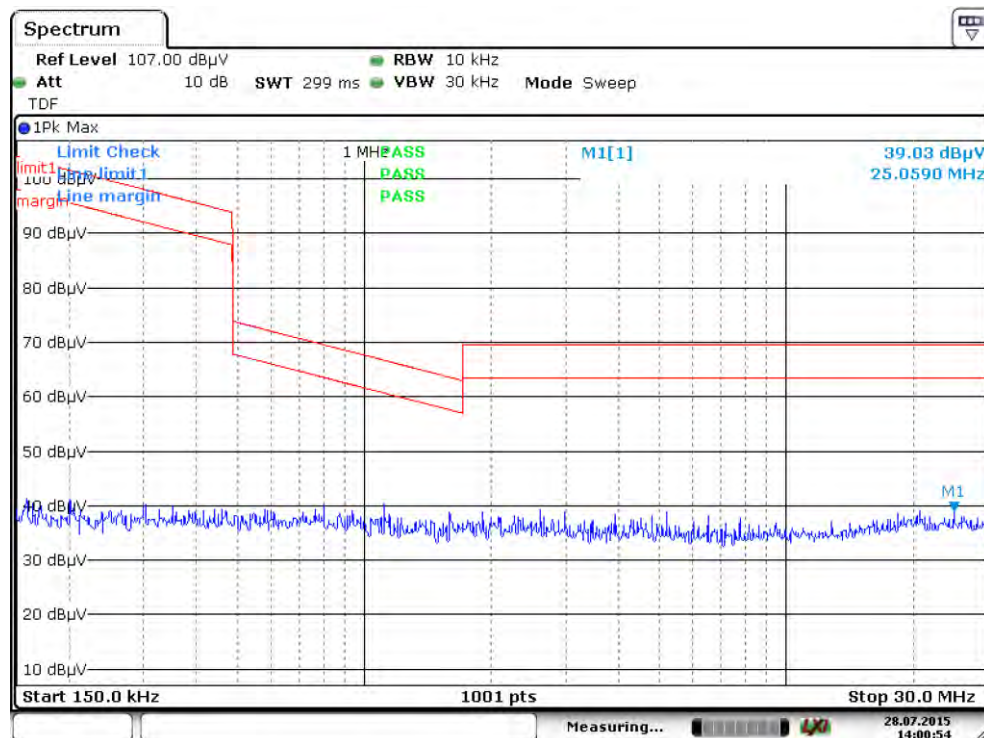
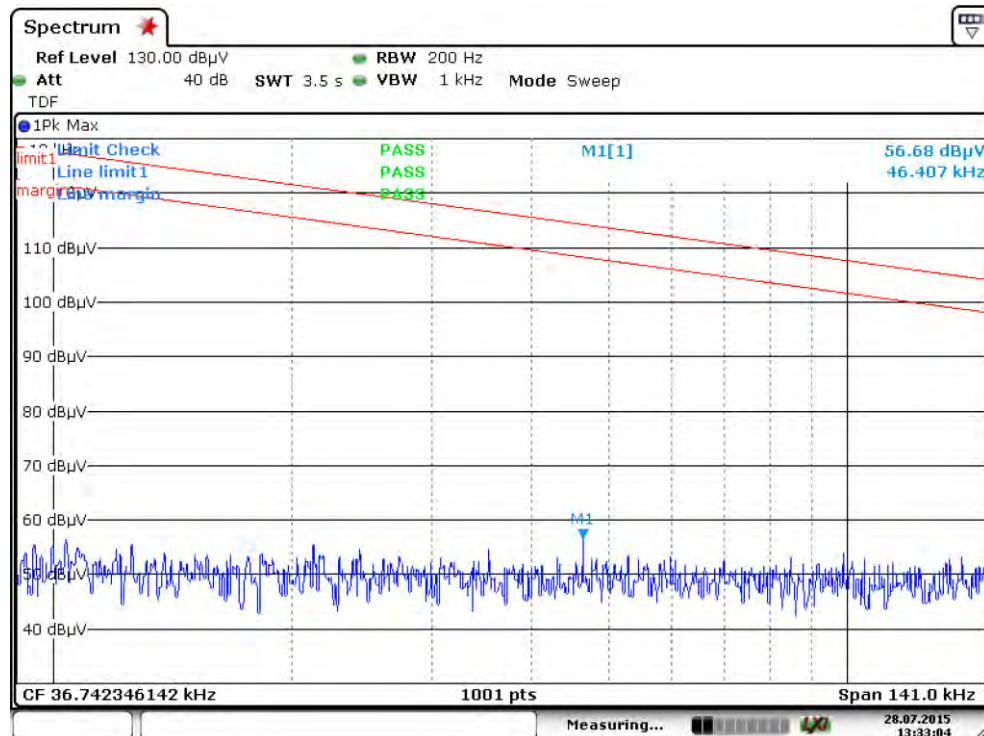
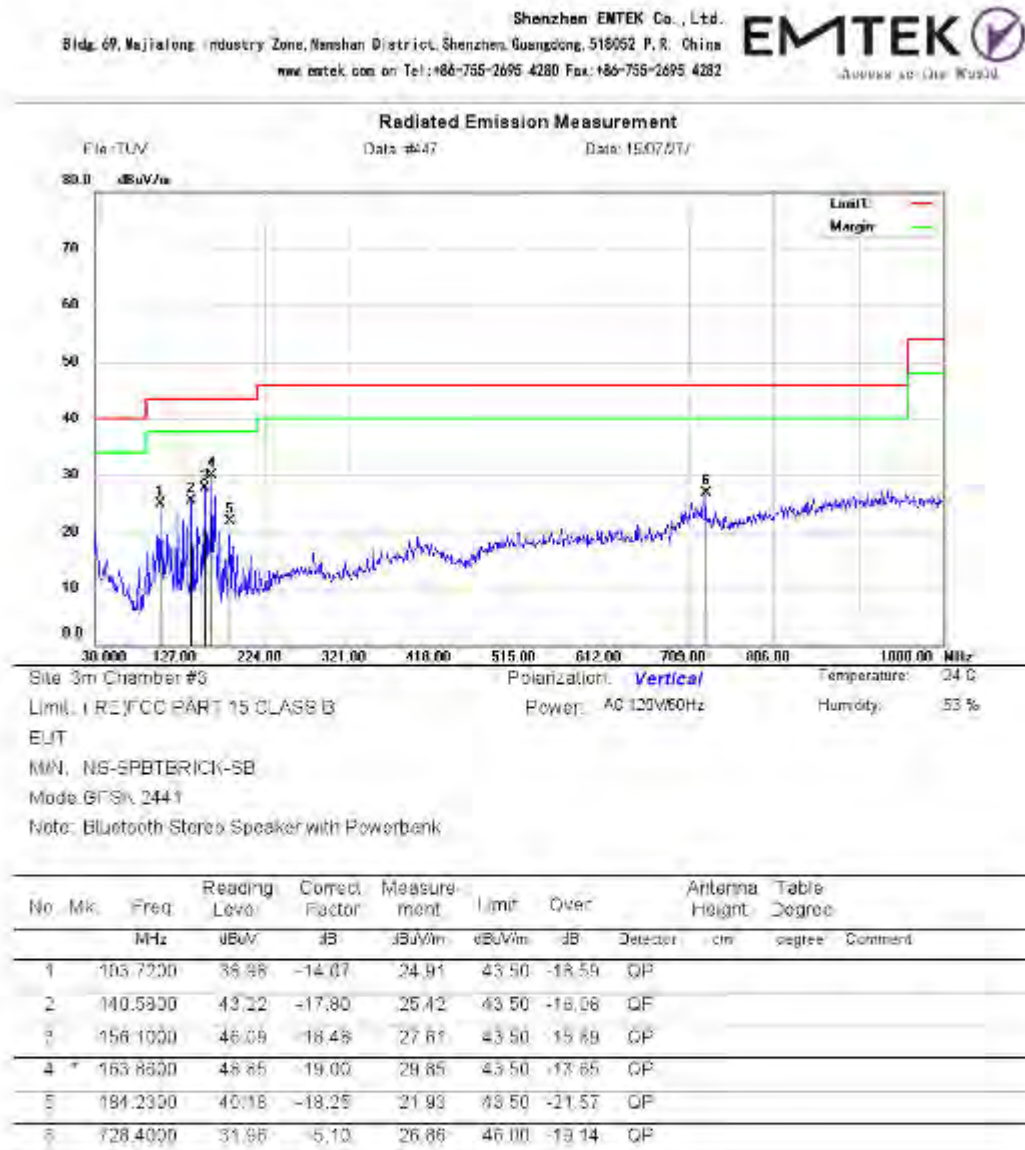


Figure 5: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), BDR (Mid)



*Maximum data x: Over limit Level margin

Operator: TK

File: TUV/Data #447

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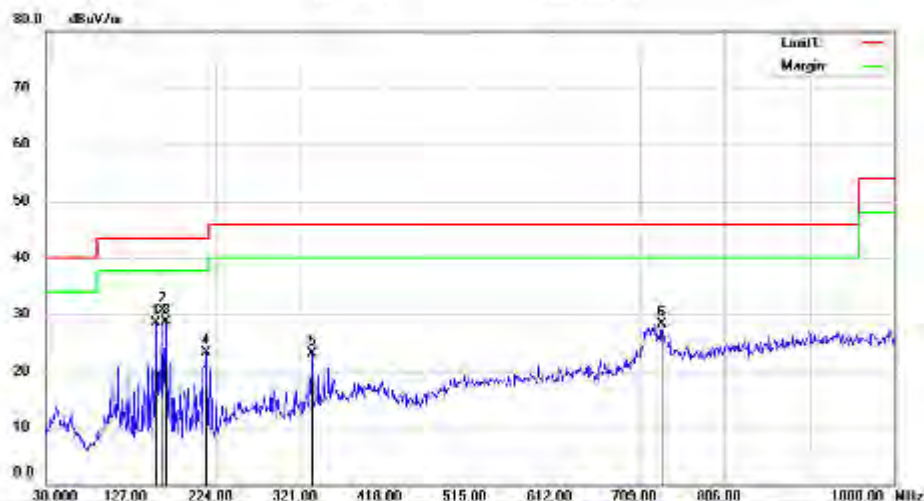


Radiated Emission Measurement

File: TUV

Date: #448

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: GPSix 244.1

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		156.1000	46.87	-18.48	28.49	43.50	-15.01	QP		
2 *		185.8800	49.69	-19.00	30.69	43.50	-12.81	QP		
3		167.7400	48.03	-19.27	28.76	43.50	-14.74	QP		
4		213.3300	39.64	-18.38	23.26	43.50	-30.24	QP		
5		334.5800	35.76	-12.75	23.01	46.00	-22.99	QP		
6		134.2200	33.27	-4.92	28.35	46.00	-17.65	QP		

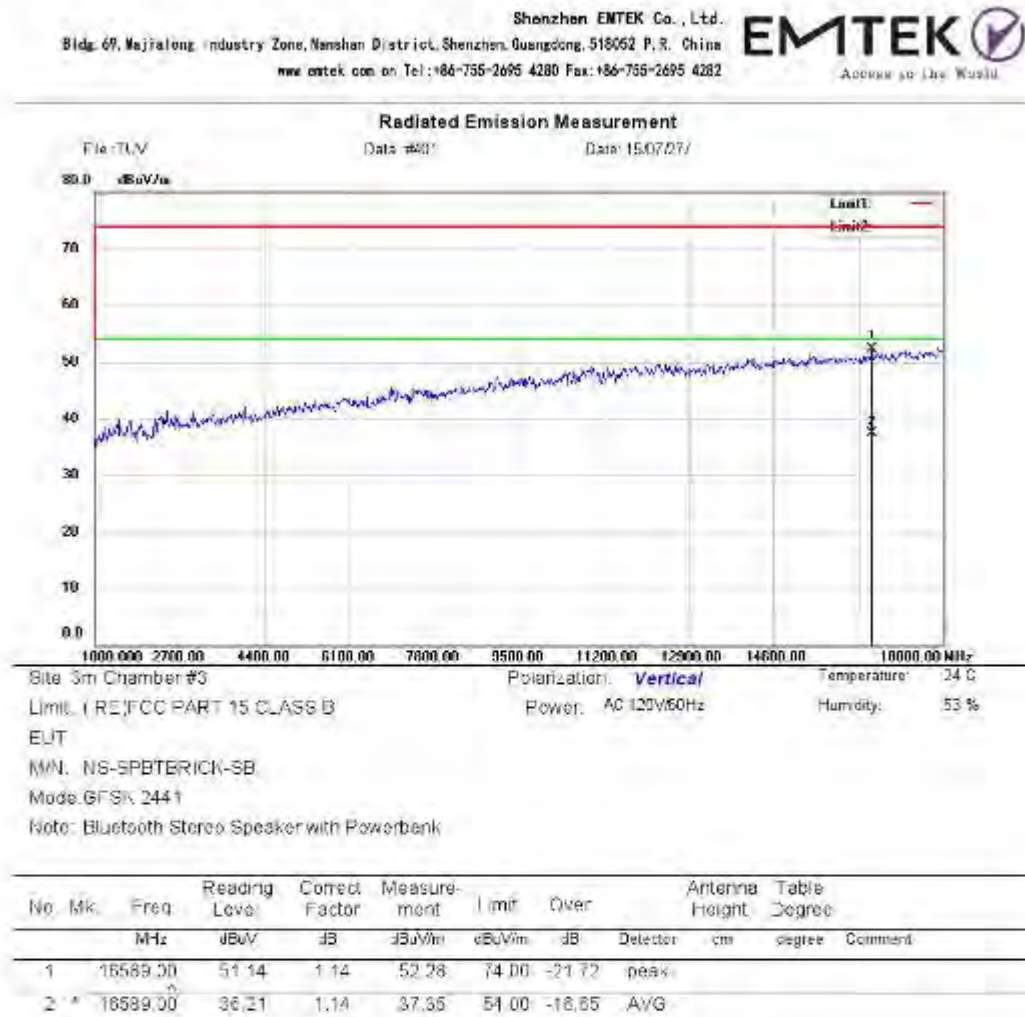
*Maximum data Over limit Lower margin

Operator: TUV

File: TUVData #448

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Figure 6: Test figure of Radiated Spurious Emissions (1GHz –25GHz), BDR (Mid)



* Maximum data, > Over limit, Lower margin

Operator: 105

File: TUV/Data #491

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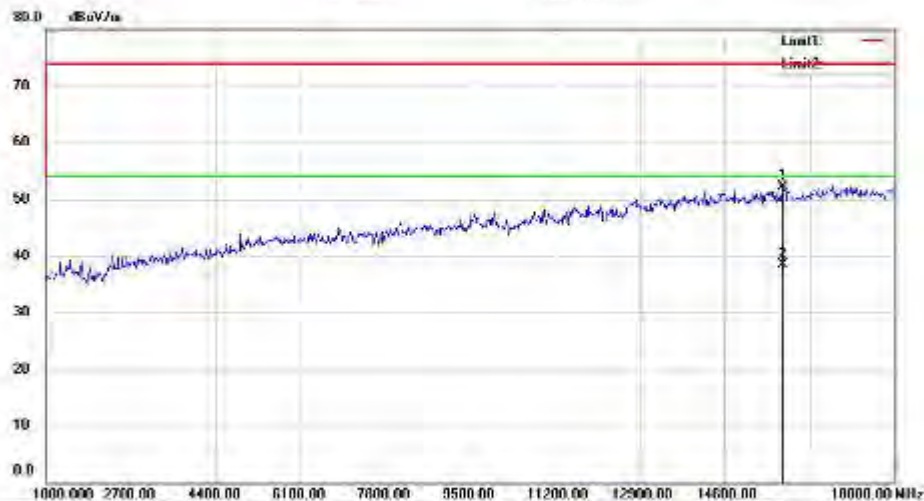


Radiated Emission Measurement

File: TUV

Date: #002

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: GFSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		15755.00	52.52	-0.39	52.13	74.00	-21.87	peak		
2	*	15755.00	38.65	-0.39	38.26	54.00	-15.74	AVG		

*Maximum data x: Over limit Lower margin

Operator: 185

File: TUVData #002

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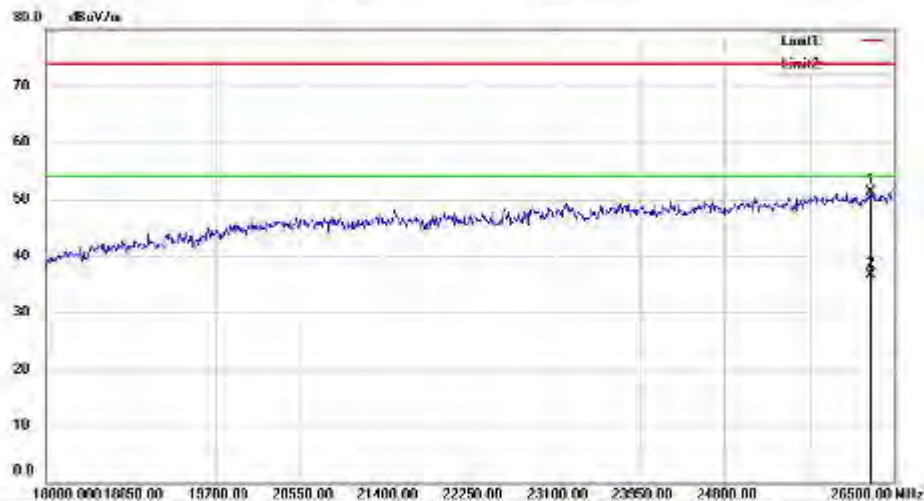


Radiated Emission Measurement

File: TUV

Date: #471

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: GFSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25270.50	86.67	-35.46	51.21	74.00	-22.79	peak		
2	*	26270.50	71.88	-35.48	36.42	54.00	-17.58	AVG		

* Maximum data, x: Over limit, Lower margin

Operator: 185

File: TUV\Data #471

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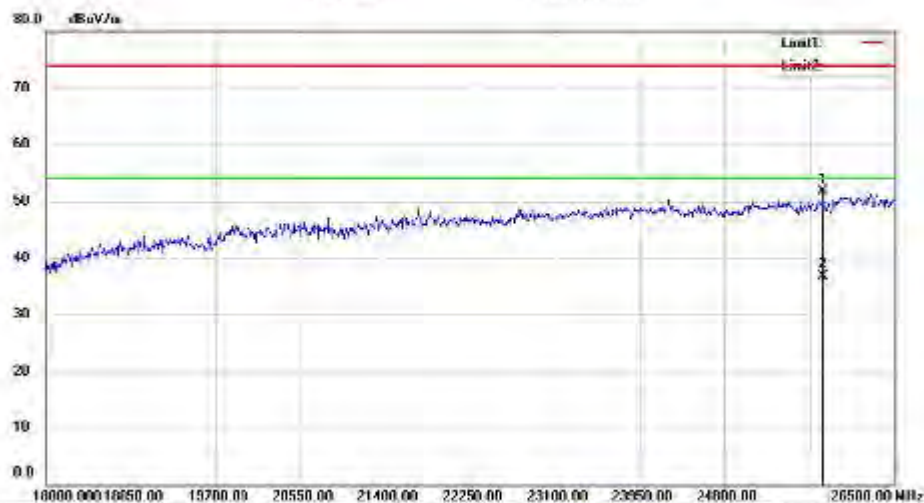


Radiated Emission Measurement

File: TUV

Data: #472

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: GFSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25786.00	87.70	-36.05	51.65	74.00	-22.35	peak		
2	*	25786.00	72.79	-36.05	36.74	54.00	-17.26	AVG		

*Maximum data, x: Over limit, Lower margin

Operator: 105

File: TUVData_#472

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Figure 7: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), BDR (High)

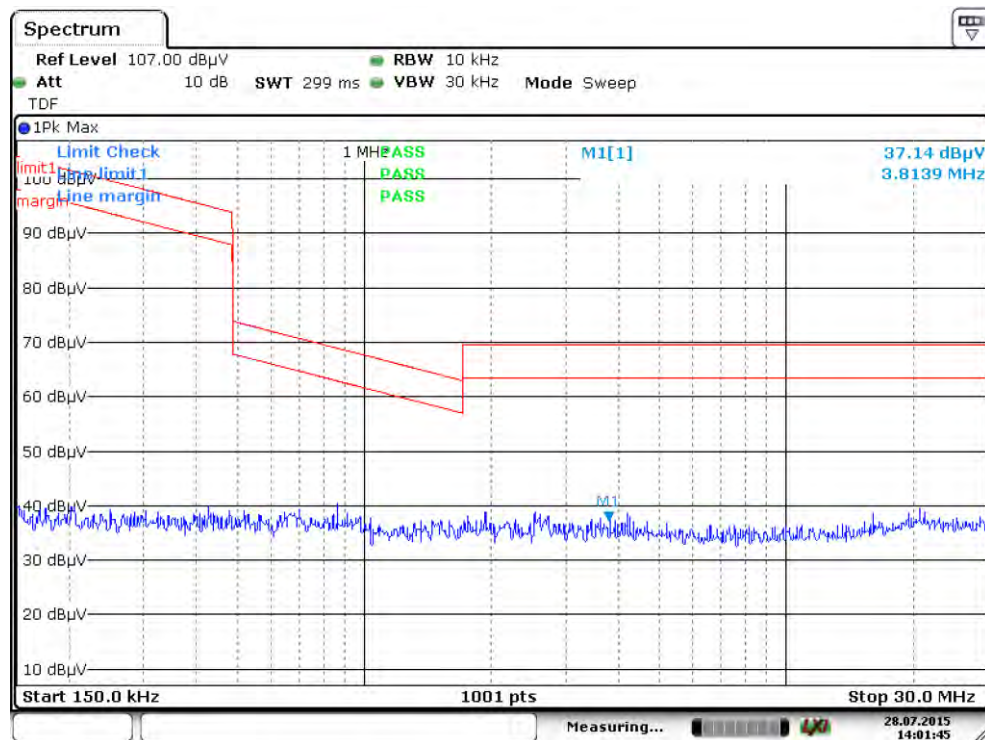
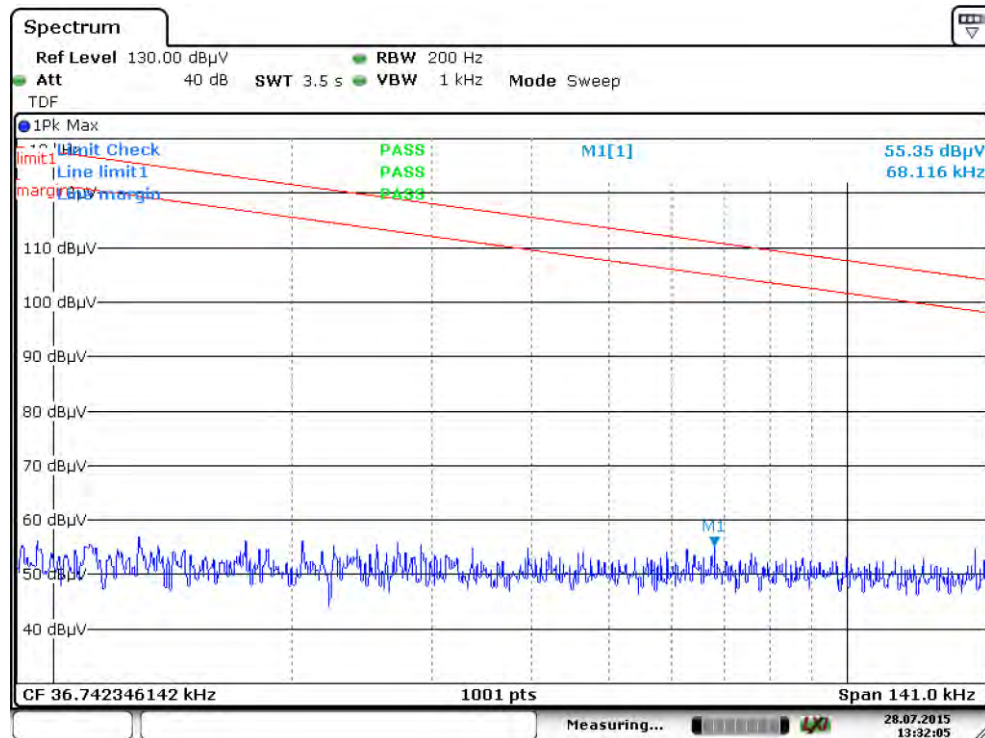
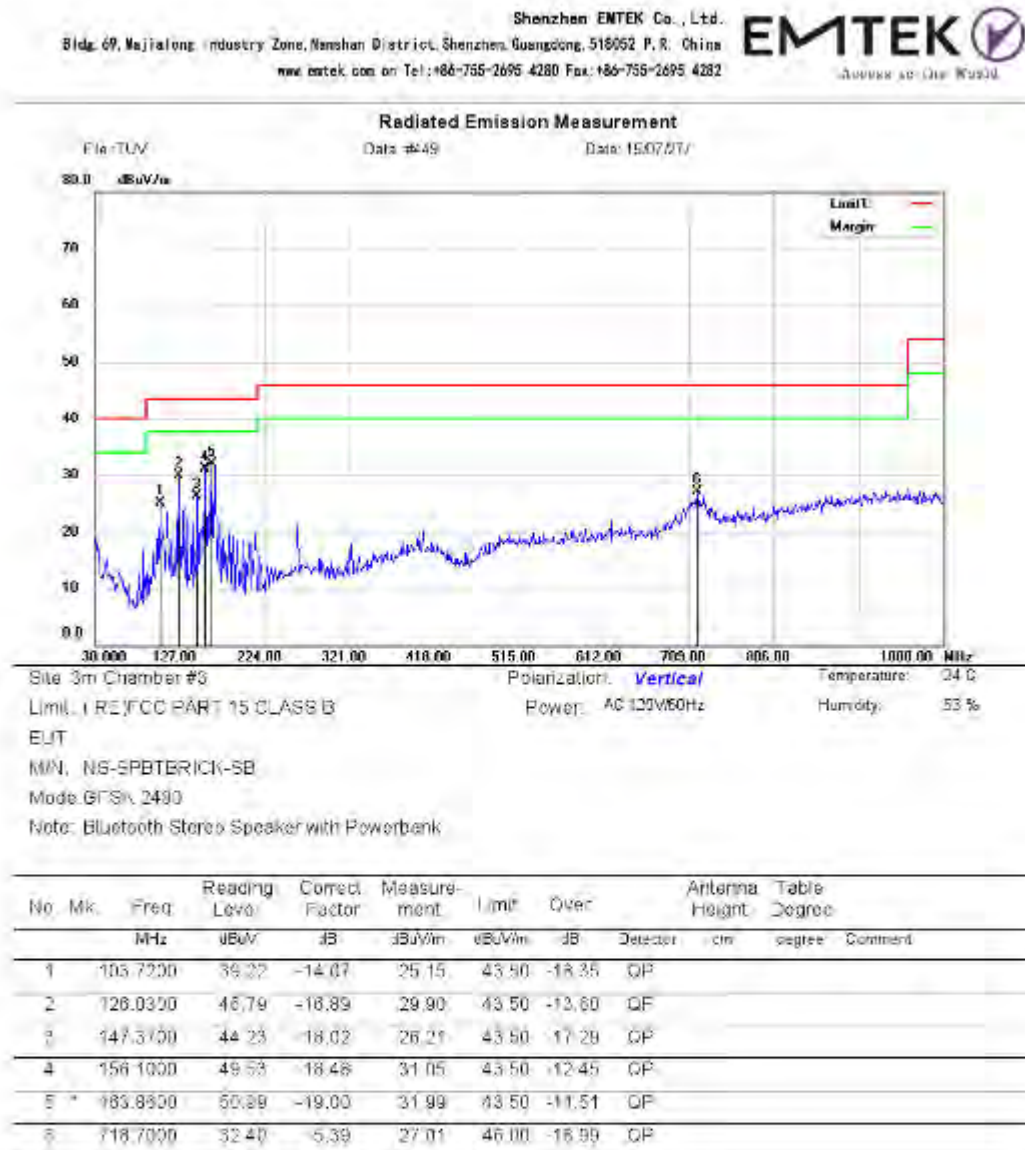


Figure 8: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), BDR (High)



*Maximum data x: Over limit Level margin

Operator: TKV

File: TUV/Data #449

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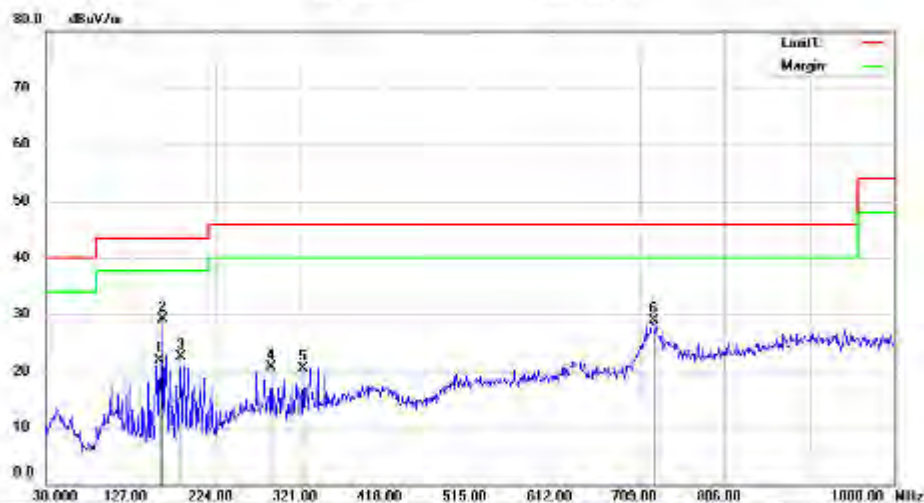


Radiated Emission Measurement

File: TUV

Date: #450

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: GPSix 2490

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
										Comment
1		159.9800	40.72	-18.72	22.00	43.50	-21.50	QP		
2 *		185.8800	48.18	-19.00	29.18	43.50	-14.32	QP		
3		184.2300	40.70	-18.25	22.45	43.50	-21.05	QP		
4		288.0200	33.77	-13.07	20.70	46.00	-25.30	QP		
5		323.9100	33.38	-13.30	20.08	46.00	-25.92	QP		
6		724.5200	34.19	-6.21	28.98	46.00	-17.02	QP		

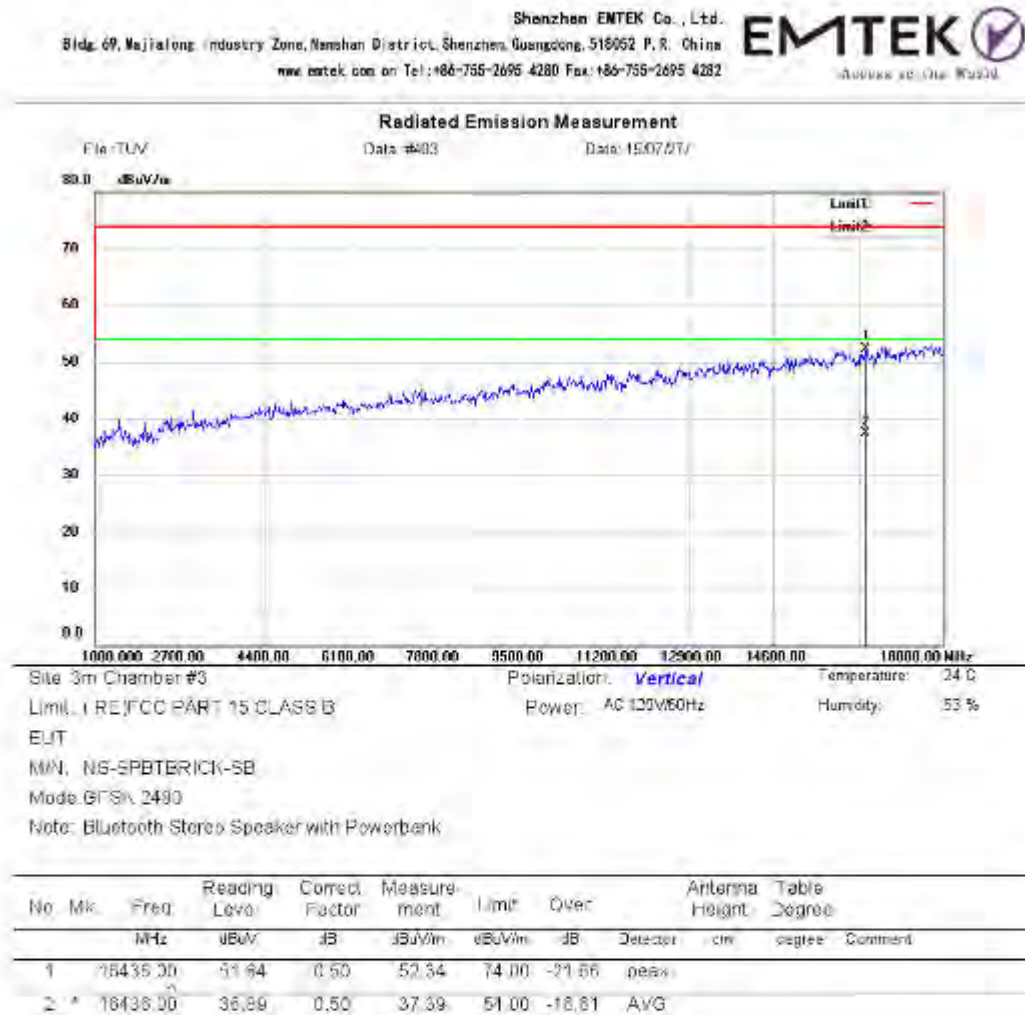
*Maximum data x: Over limit, Lower margin

Operator: TUV

File: TUVData #450

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Figure 9: Test figure of Radiated Spurious Emissions (1GHz –25GHz), BDR (High)



*Maximum data, Over limit, Level margin

Operator: KLV

File: TUV/Data: #403

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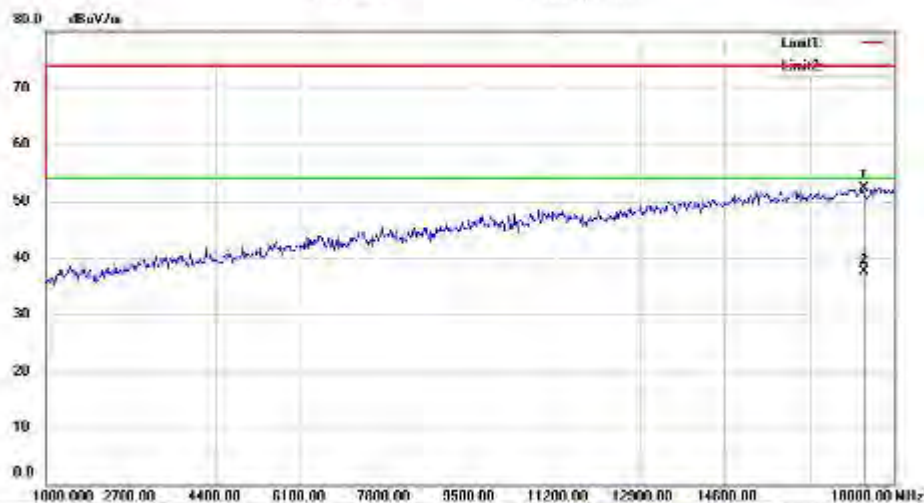


Radiated Emission Measurement

File: TUV

Date: #004

Date: 15.07.27/



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: GFSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		17385.00	44.74	7.61	52.35	74.00	-21.65	peak		
2	*	17385.00	29.98	7.61	37.59	54.00	-16.41	AVG		

*Maximum data x: Over limit. Lower margin

Operator: 100

File: TUV/Data #494

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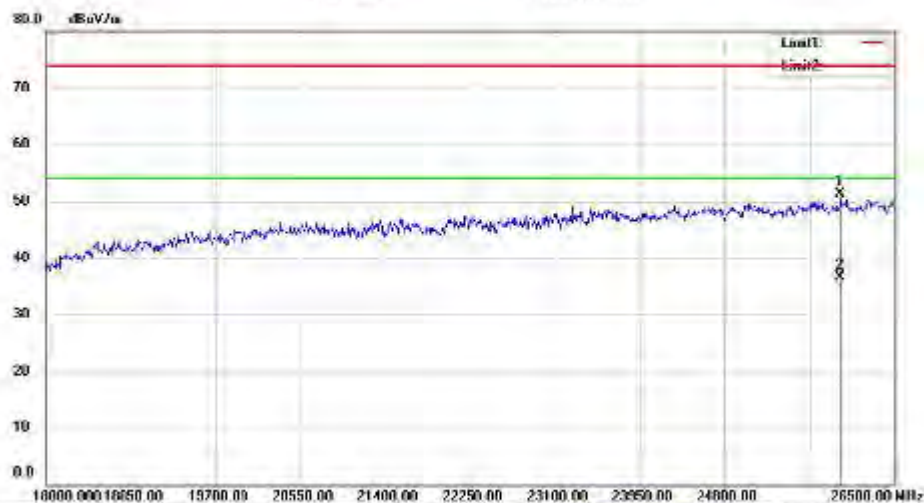


Radiated Emission Measurement

File: TUV

Data: #473

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: GFSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25964.50	87.14	-35.83	51.31	74.00	-22.69	peak		
2	*	25964.50	72.31	-35.83	36.48	54.00	-17.52	AVG		

*Maximum data x: Over limit. Lower margin

Operator: 100

File: TUV\Data #473

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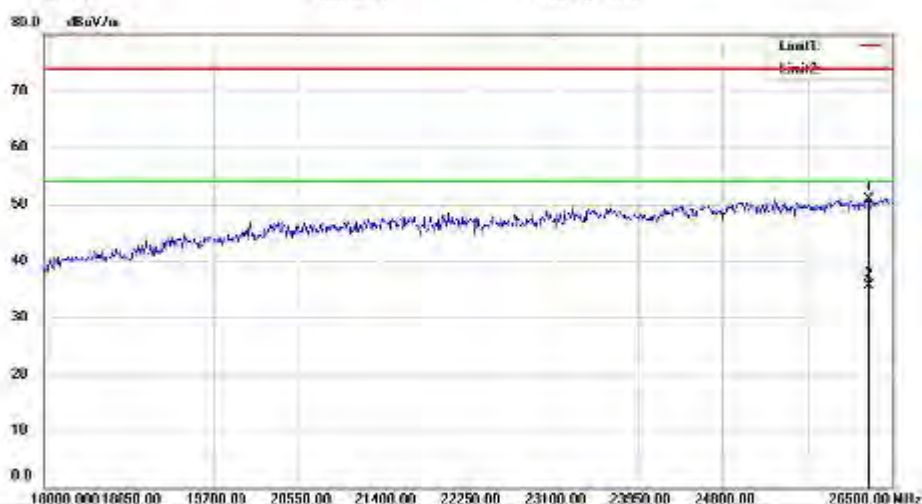


Radiated Emission Measurement

File: TUV

Date: #474

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: Vertical

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: GFSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
				dB	dBuV/m				cm	degree
1		25270.50	86.44	-35.46	50.98	74.00	-23.02	peak		
2	*	26270.50	70.95	-35.48	35.49	54.00	-18.51	AVG		

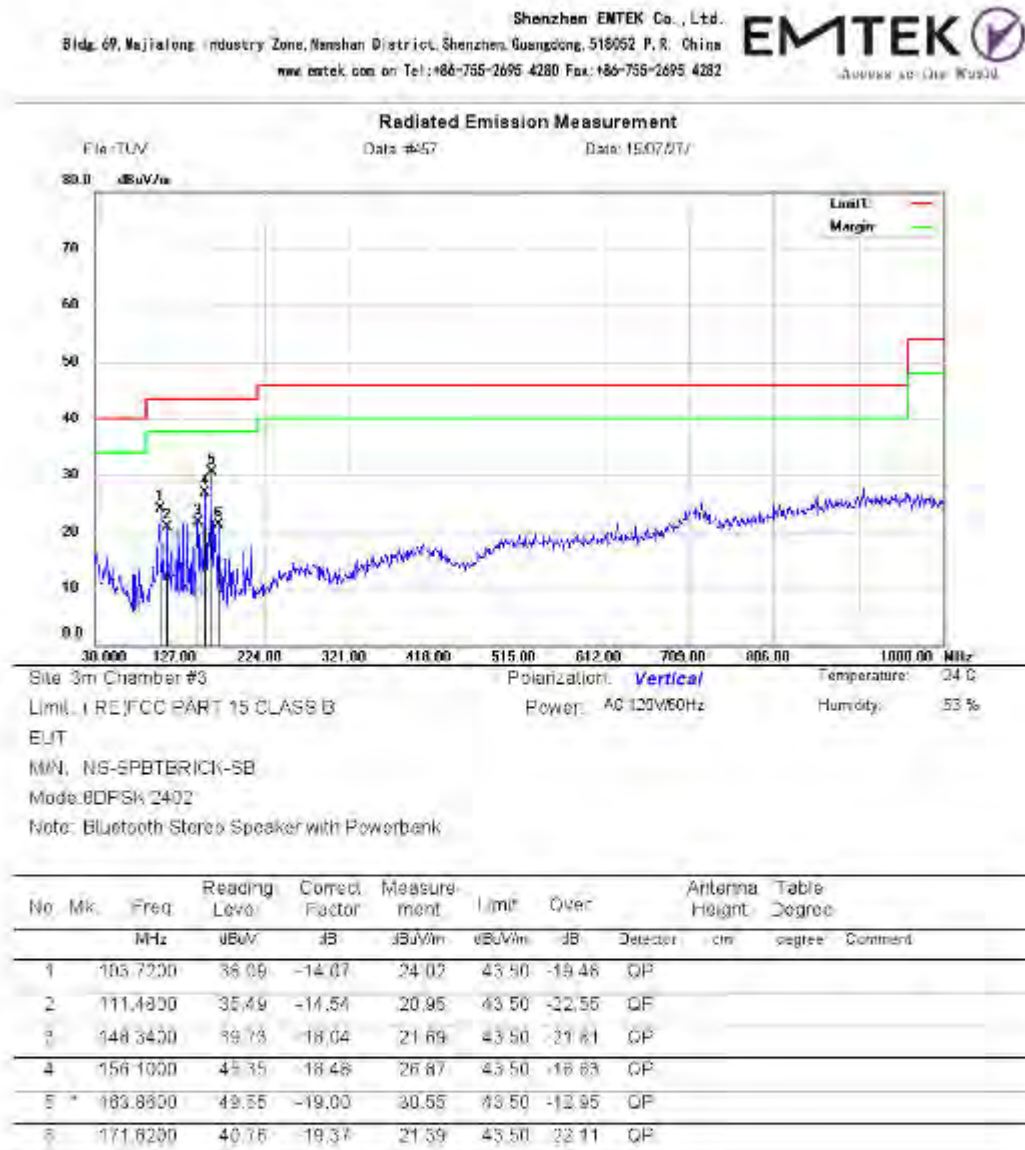
* Maximum data, x: Over limit, Lower margin

Operator: IQS

File: TUV/Data #474

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Figure 10: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), EDR (Low)



*Maximum data x. Over limit Level margin

Operator: KVV

File: TUV/Data #457

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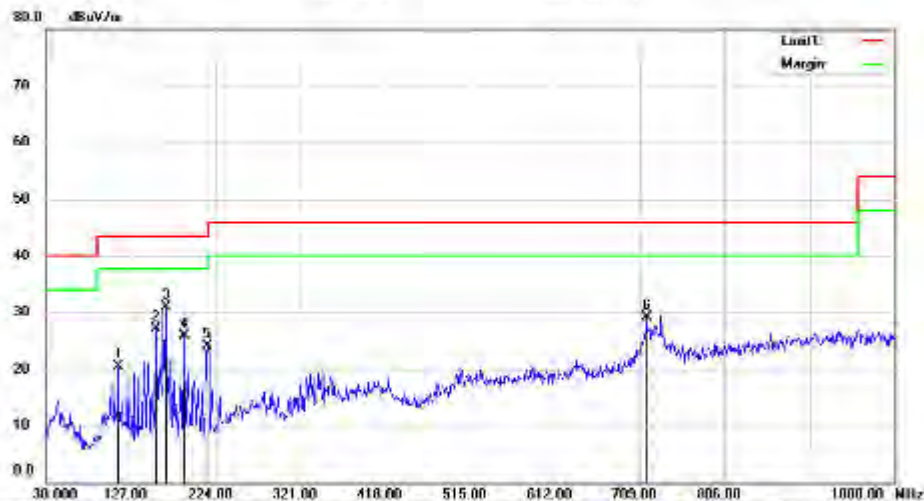


Radiated Emission Measurement

File: TUV

Date: #456

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: BPSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
										Comment
1		111.4800	35.14	-14.54	20.60	43.50	-22.90	QP		
2		156.1000	45.50	-18.48	27.02	43.50	-16.48	QP		
3		167.7400	50.10	-19.27	30.83	43.50	-12.67	QP		
4		168.1100	43.54	-17.59	25.95	43.50	-17.55	QP		
5		214.3000	40.39	-16.38	24.01	43.50	-19.49	QP		
6		716.7600	34.54	-5.45	29.08	46.00	-16.92	QP		

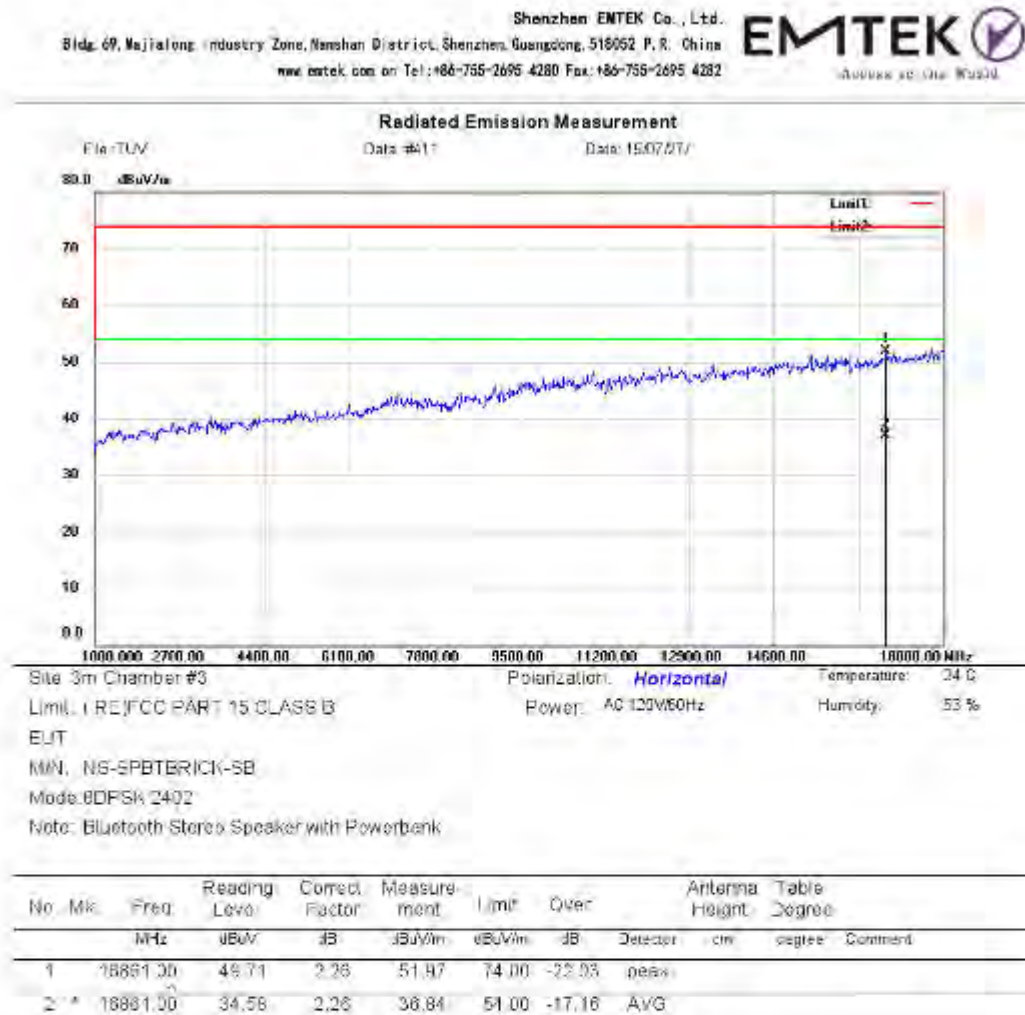
*Maximum data x:Over limit :Lower margin

Operator: TUV

File: TUVData #456

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Figure 11: Test figure of Radiated Spurious Emissions (1GHz –25GHz), EDR (Low)



*Maximum data x: Over limit Level margin

Operator: Kiv

File: TUVData: #411

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Radiated Emission Measurement

File: TUV

Date: #412

Date: 15/07/17

30.0 $\mu\text{V/m}$



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: 8DPSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table
		MHz	$\mu\text{V/m}$	Factor	ment	$\mu\text{V/m}$	dB	Height	Degree
				dB	$\mu\text{V/m}$	$\mu\text{V/m}$	dB	cm	degree
1		16705.00	50.33	1.63	51.96	74.00	-22.04	peak	
2	*	16705.00	35.52	1.63	37.15	51.00	-13.85	AVG	

*Maximum data x.Over limit Lower margin

Operator: TUV

File: TUVData #412

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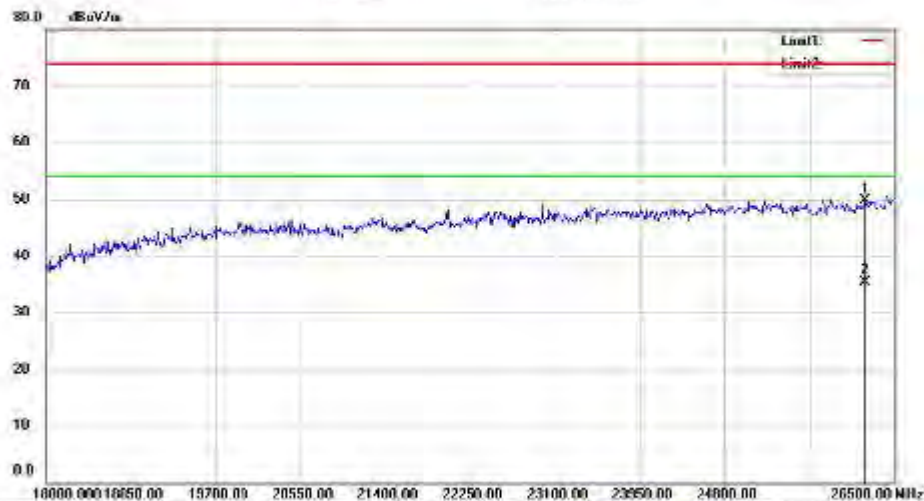


Radiated Emission Measurement

File: TUV

Data: #481

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: 8DPSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBμV	Factor	ment	dBμV/m	dB	Detector	Height	Degree
					dBμV/m				cm	degree
1		25211.00	45.18	-35.53	49.66	74.00	-24.34	peak		
2	*	26211.00	70.77	-35.53	35.24	54.00	-18.76	AVG		

*Maximum data x: Over limit, Lower margin

Operator: 185

File: TUV/Data #481

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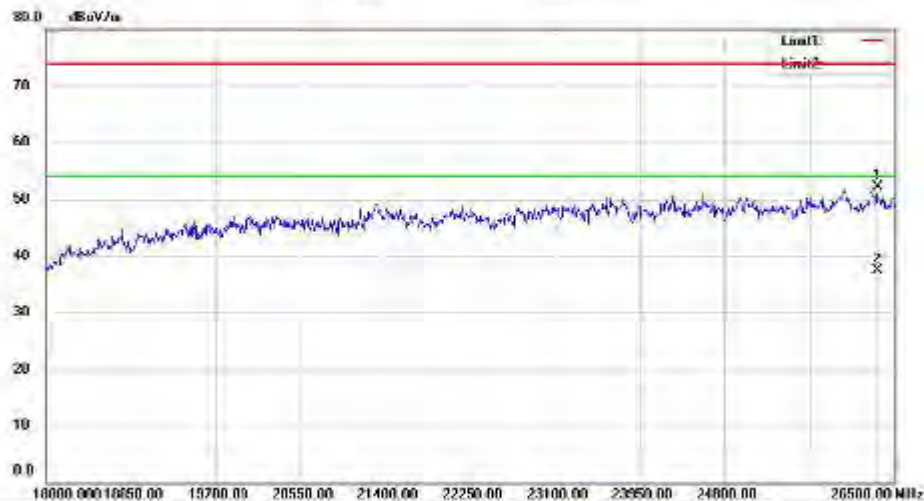


Radiated Emission Measurement

File: TUV

Data: #482

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: 8DPSK 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree
								cm	degree
									Comment
1		25330.00	87.56	-35.39	52.17	74.00	-21.83	peak	
2	*	26330.00	72.63	-35.39	37.24	51.00	-13.76	AVG	

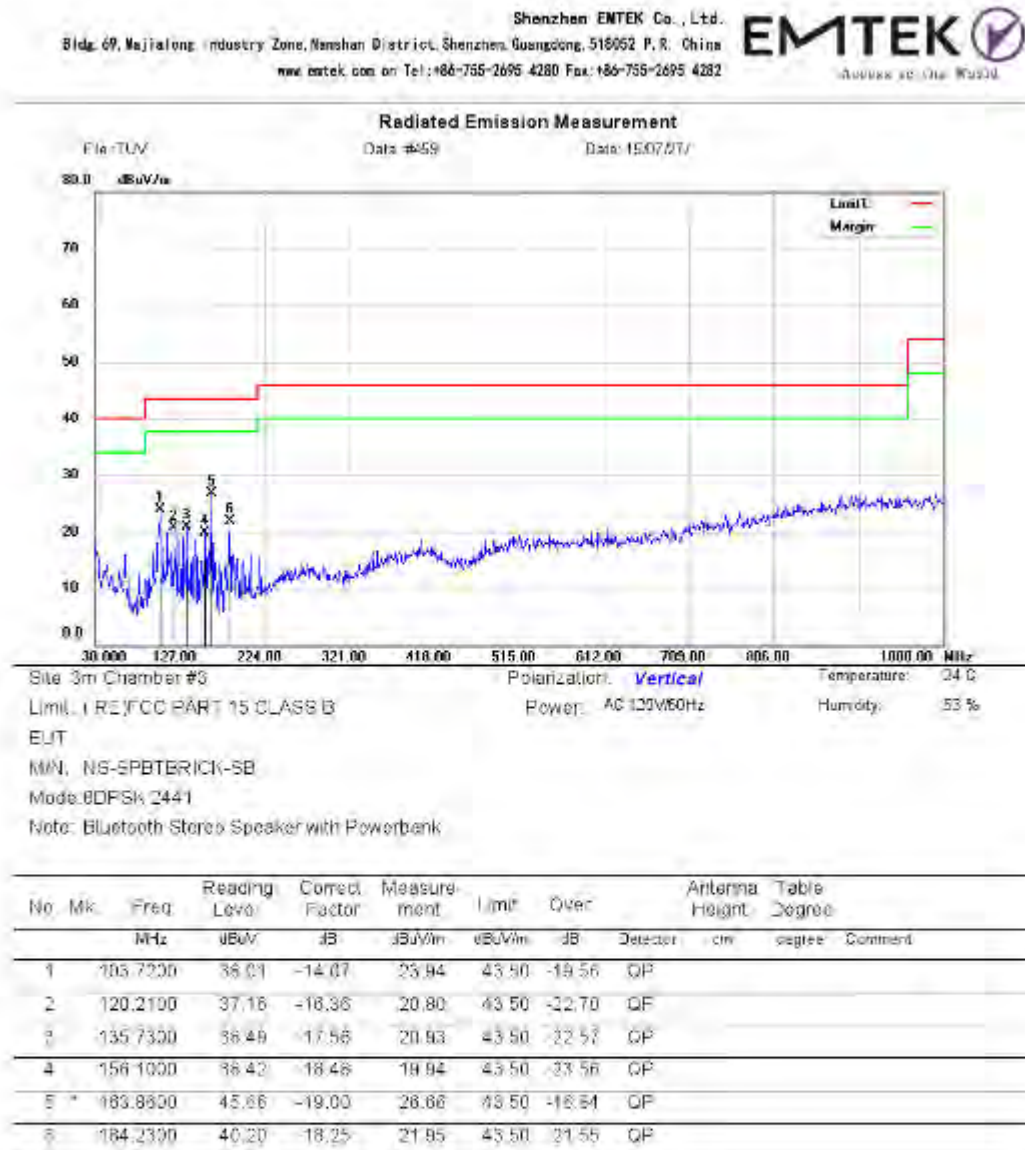
*Maximum data x: Over limit, Lower margin

Operator: 105

File: TUV>Data: #482

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Figure 12: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), EDR (Mid)



*Maximum data x: Over limit | Level margin:

Operator: TK

File: TU\Data #459

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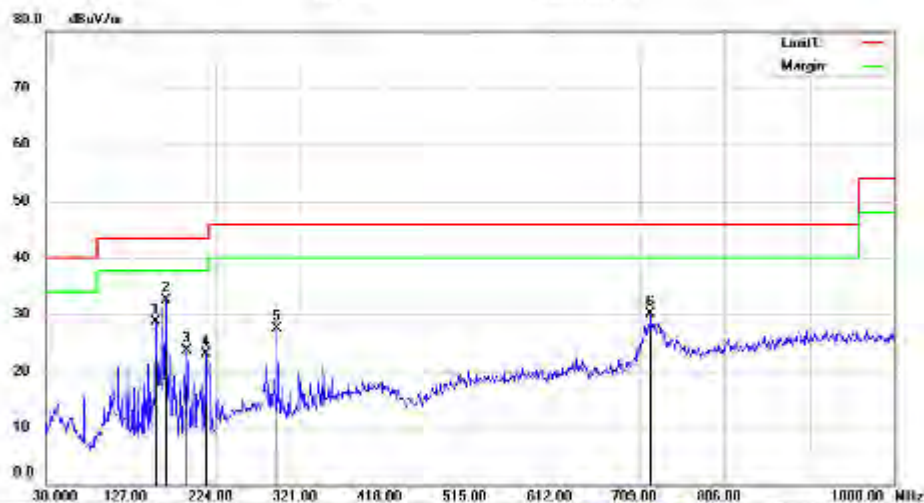


Radiated Emission Measurement

File: TUV

Date: #450

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

MIN: NS-SPBTRICK-SB

Mode: 8DPSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBμV	Factor	ment	dBμV/m	dB	Height	Degree	
								cm	degree	Comment
1		156.1000	47.10	-18.48	28.62	43.50	-14.88	QP		
2 *		187.7400	51.88	-19.27	32.61	43.50	-11.09	QP		
3		191.0200	40.89	-17.19	23.70	43.50	-19.80	QP		
4		213.3300	39.44	-18.38	23.06	43.50	-20.44	QP		
5		294.8100	41.09	-13.50	27.59	46.00	-18.41	QP		
6		721.6100	35.47	-5.31	30.16	46.00	-15.84	QP		

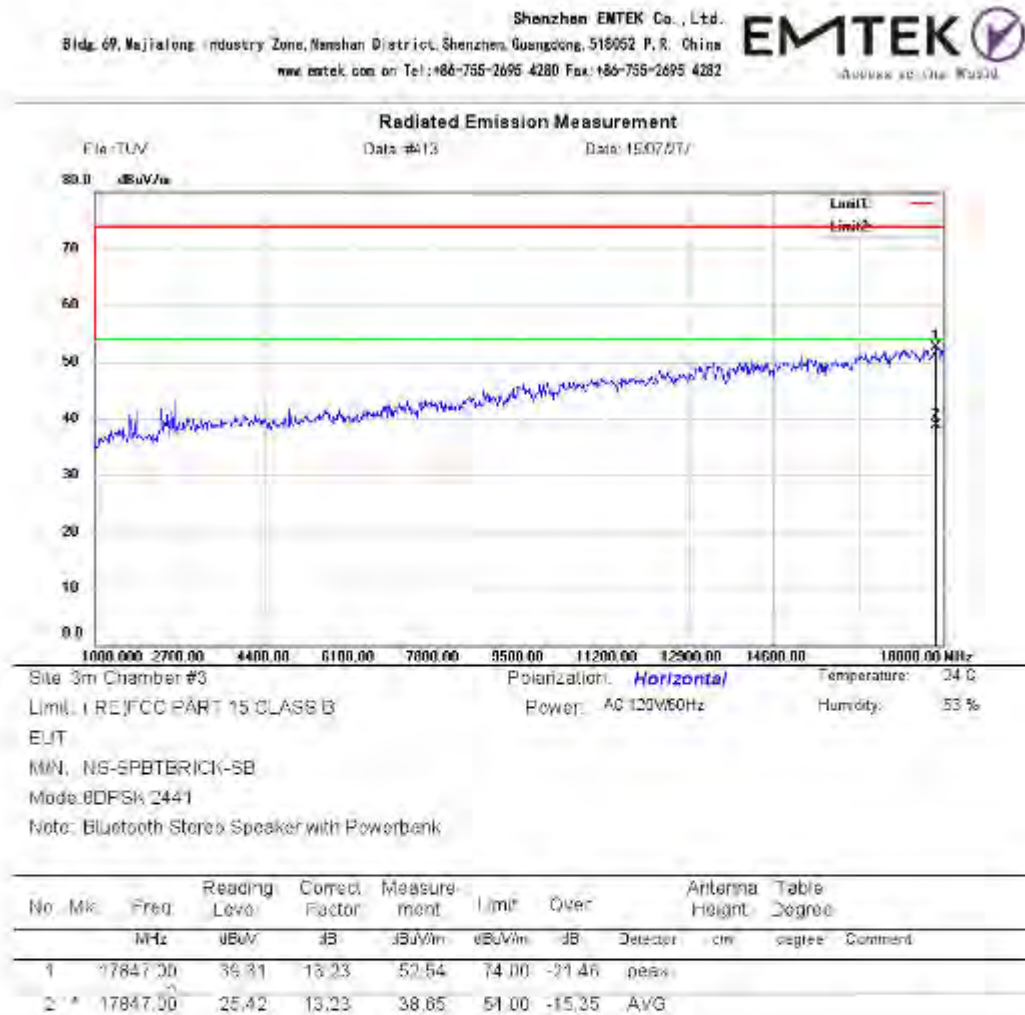
*Maximum data α: Over limit β: Lower margin

Operator: TUV

File: TUV/Data #450

Page: 30

Figure 13: Test figure of Radiated Spurious Emissions (1GHz –25GHz), EDR (Mid),



*Maximum data x: Over limit Level margin

Operator: Kiv

File: TUVData: #413

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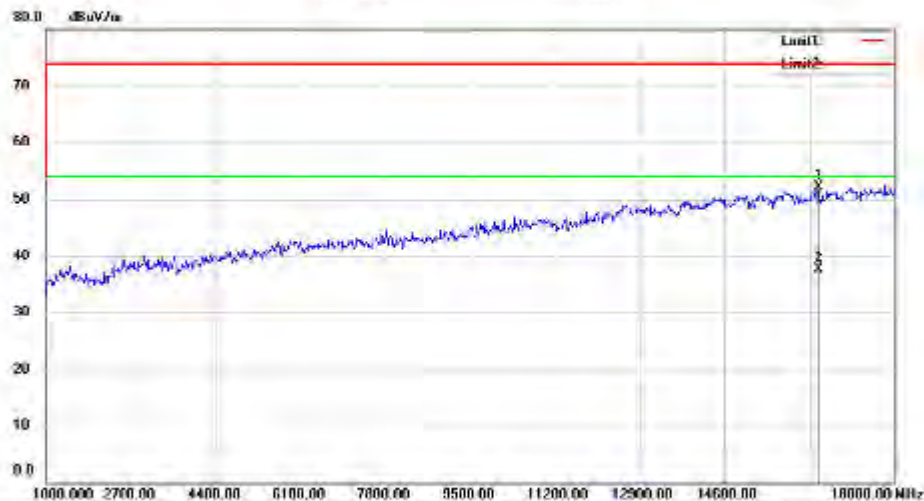


Radiated Emission Measurement

File: TUV

Date: #414

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

Model: NS-SPBTRICK-SB

Mode: 8DPSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBμV	Factor	ment	dBμV/m	dB	Detector	Height	Degree
									cm	degree
1		18487.00	51.46	0.71	52.17	74.00	-21.83	peak		
2	*	18487.00	36.78	0.71	37.49	51.00	-13.51	AVG		

*Maximum data x.Over limit Lower margin

Operator: TUV

File: TUVData #414

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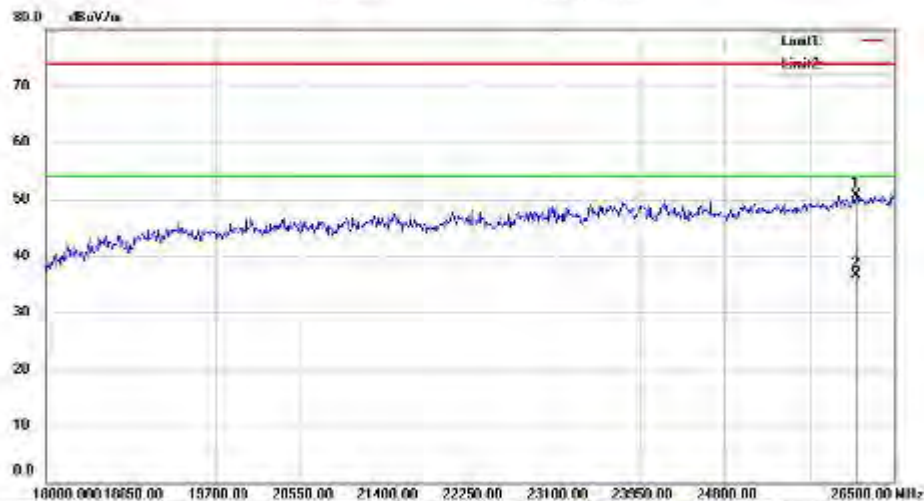


Radiated Emission Measurement

File: TUV

Date: #493

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: 8DPSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
					dBuV/m			cm	degree	Comment
1		25117.50	86.43	-35.65	50.78	74.00	-23.22	peak		
2	*	26117.50	72.24	-35.65	36.59	54.00	-17.41	AVG		

* Maximum data x Over limit Lower margin

Operator: 100

File: TUVData #493

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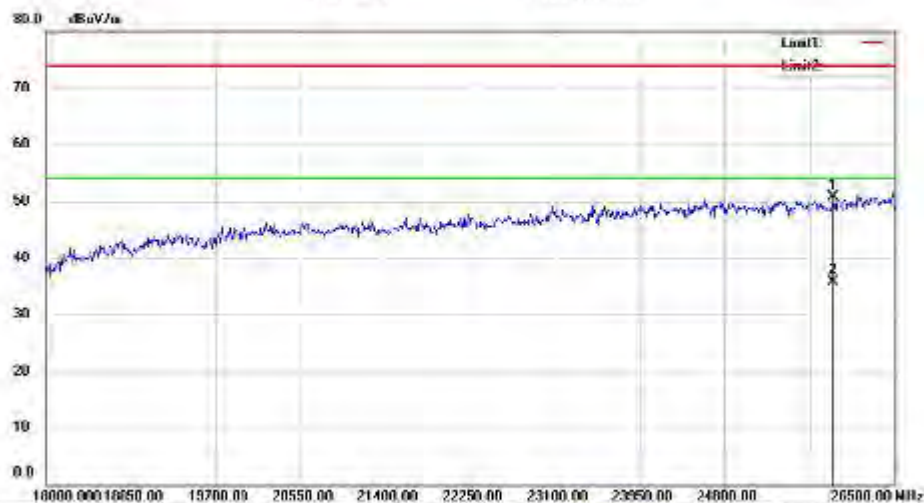


Radiated Emission Measurement

File: TUV

Date: #84

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

Model: NS-SPBTRICK-SB

Mode: 8DPSK 2441

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
				dB	dBuV/m				cm	degree
1		25898.50	86.53	-35.92	50.61	74.00	-23.39	peak		
2	*	25898.50	71.67	-35.92	35.75	54.00	-18.25	AVG		

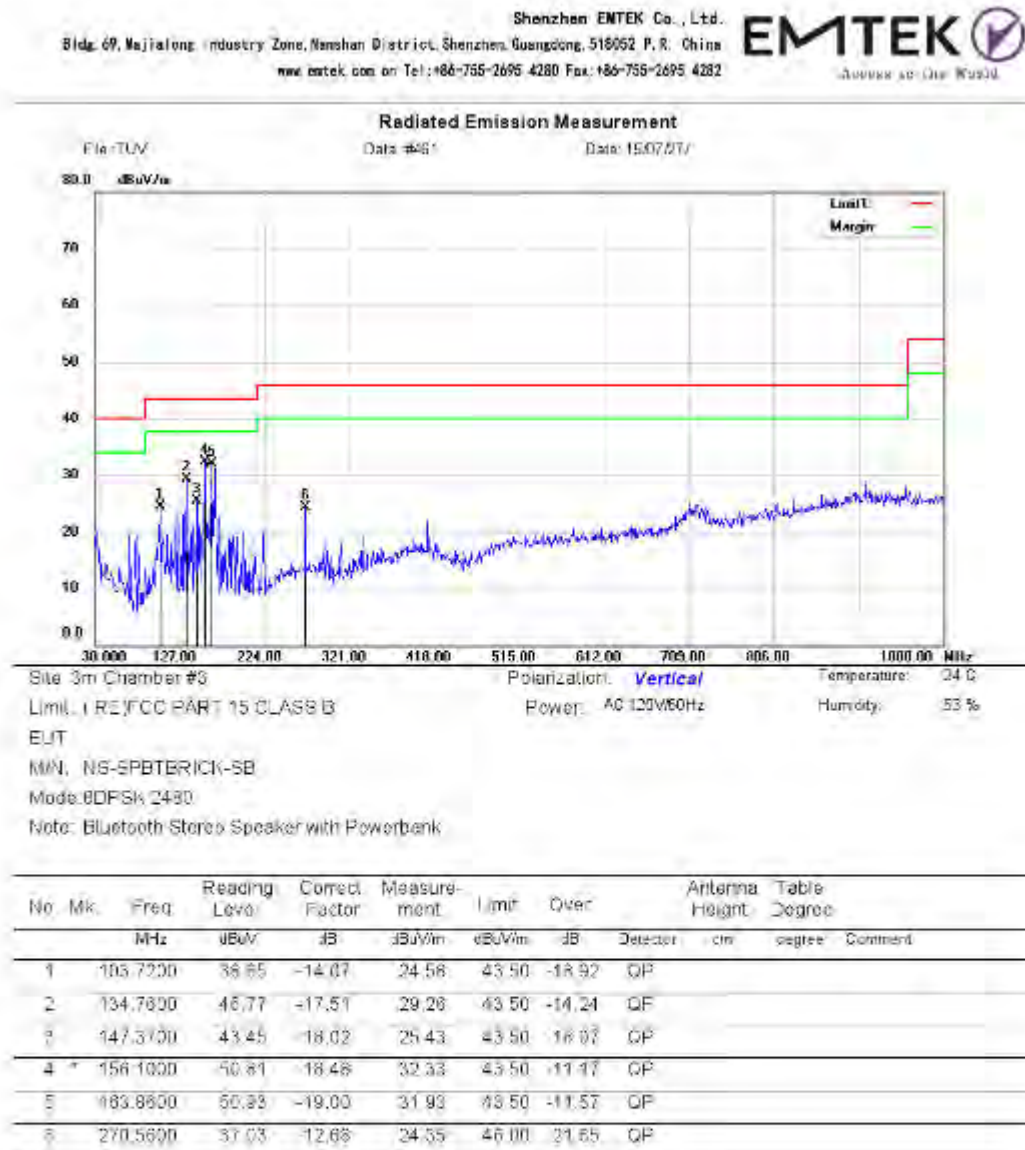
*Maximum data x: Over limit, Lower margin

Operator: 105

File: TUV/Data #84

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Figure 14: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), EDR (High)



*Maximum data x: Over limit | : Level margin

Operator: TK

File: TUV/Data #451

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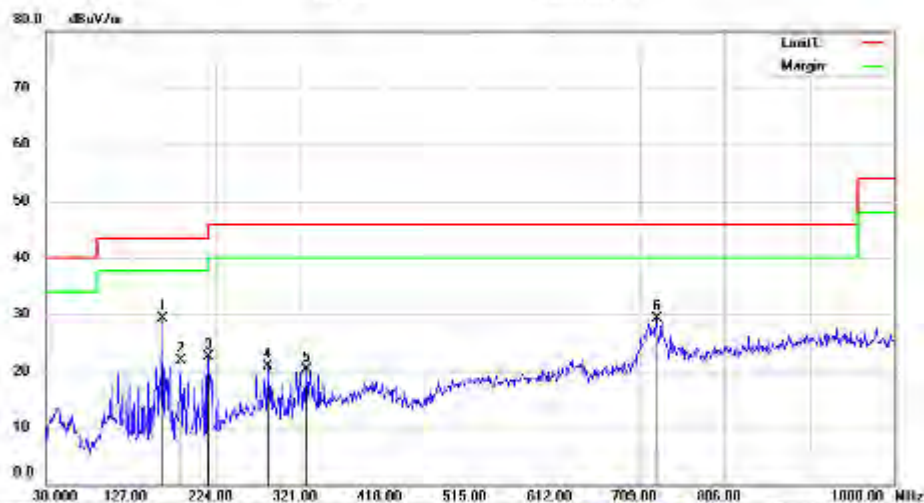


Radiated Emission Measurement

File: TUV

Date: #452

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

M/N: NS-SPBTRICK-SB

Mode: BPSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1	*	183.8600	48.28	-19.00	29.23	43.50	-14.27	QP		
2		184.2300	46.24	-18.25	27.99	43.50	-15.51	QP		
3		215.2700	38.93	-18.38	20.55	43.50	-22.95	QP		
4		284.1400	33.64	-12.83	20.81	46.00	-25.19	QP		
5		327.7800	33.45	-13.09	20.36	46.00	-25.64	QP		
6		728.4000	34.41	-6.10	28.31	46.00	-17.69	QP		

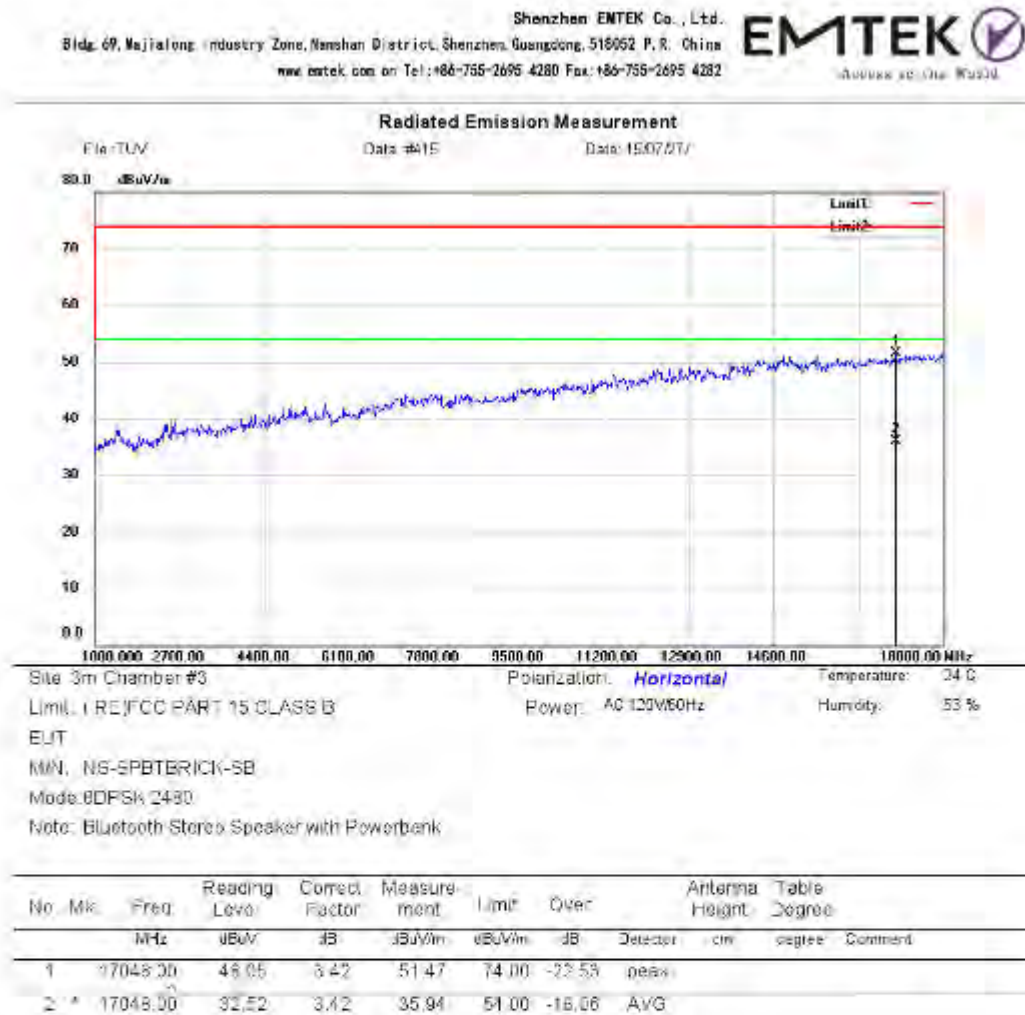
*Maximum data x:Over limit :Lower margin

Operator: TUV

File: TUV/Data #452

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Figure 15: Test figure of Radiated Spurious Emissions (1GHz –25GHz), EDR (High)



*Maximum data x Over limit Level margin

Operator: RW

File: TUV/Data #415

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Radiated Emission Measurement

File: TUV

Date: #416

Date: 15/07/17

30.0 $\mu\text{V/m}$



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: 8DPSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	$\mu\text{V/m}$	dB	ment	$\mu\text{V/m}$	dB	Height	Degree	
								cm	degree	Comment
1		17082.00	48.11	3.85	51.96	74.00	-22.04	peak		
2	*	17082.00	33.43	3.85	37.28	51.00	-13.72	AVG		

*Maximum data, Δ Over limit, Lower margin

Operator: TUV

File: TUVData #416

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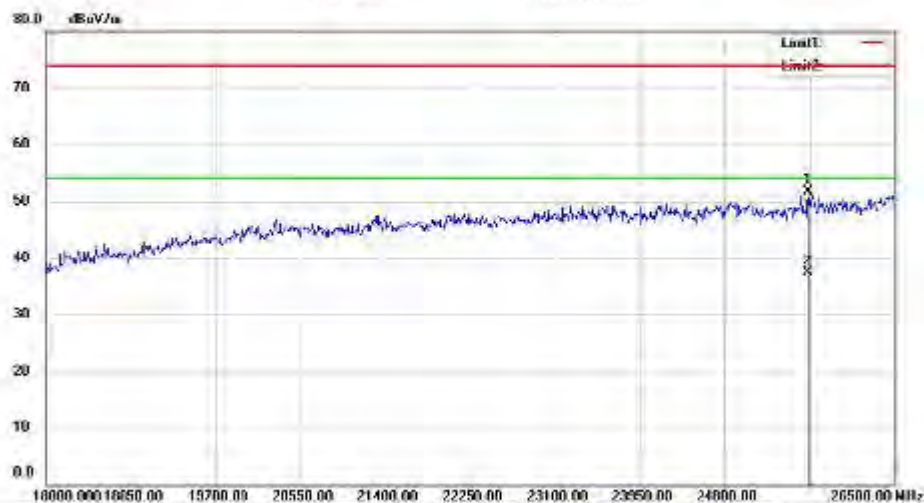


Radiated Emission Measurement

File: TUV

Date: #485

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: 8DPSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree
								cm	degree
									Comment
1		25633.00	87.90	-36.24	51.66	74.00	-22.34	peak	
2	*	25633.00	73.62	-36.24	37.38	54.00	-16.62	AVG	

* Maximum data x Over limit Lower margin

Operator: 105

File: TUVData #485

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Radiated Emission Measurement

File: TUV

Date: #486

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (REJ FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: 8DPSK 2400

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25384.00	86.45	-35.35	51.10	74.00	-22.90	peak		
2	*	26384.00	72.59	-35.35	37.24	54.00	-16.76	AVG		

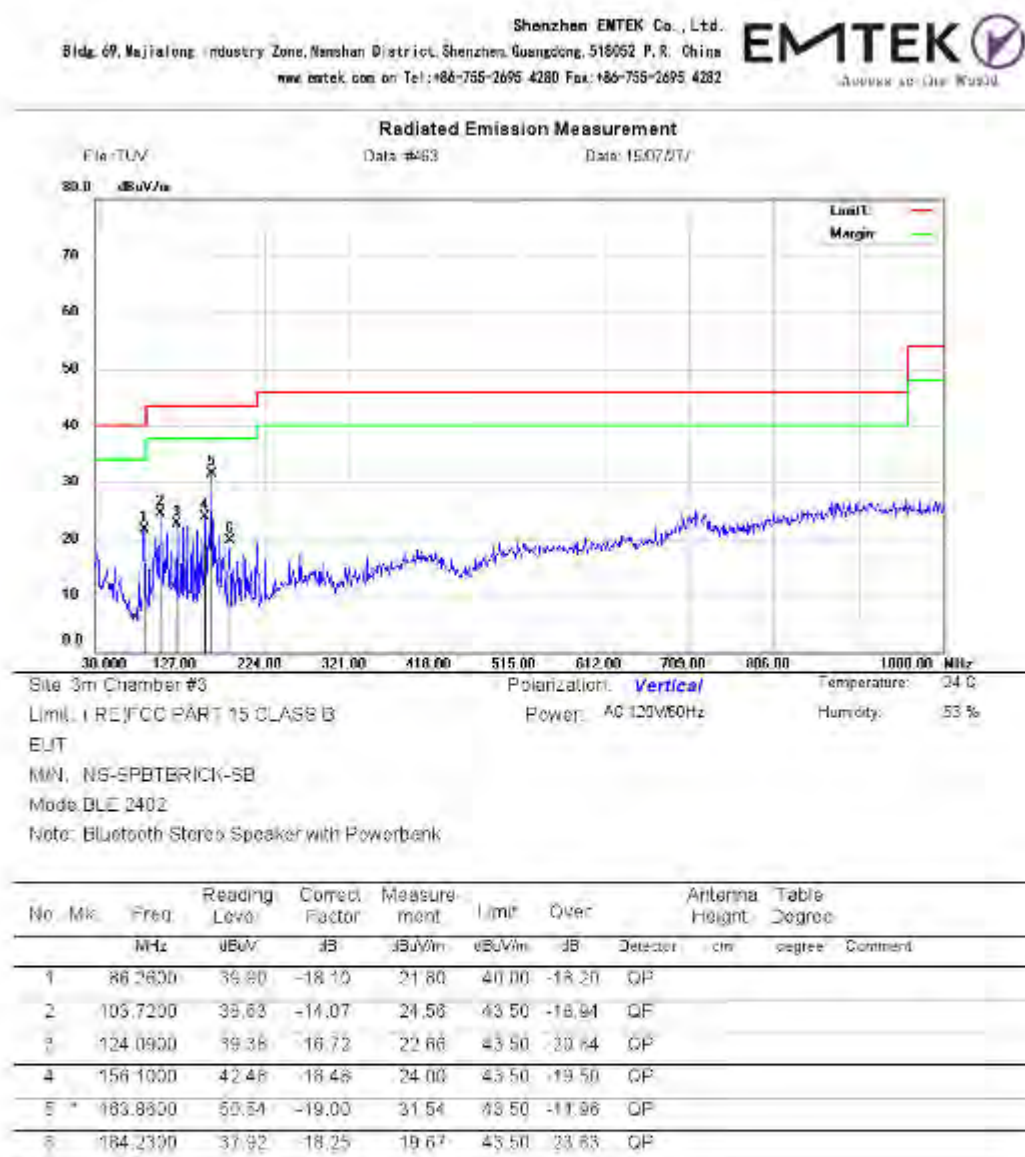
* Maximum data x Over limit Lower margin

Operator: 100

File: TUVData #486

Page: 40

Figure 16: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), Low Energy (Low)



*Maximum data x Over limit Level margin

Operator: TUV

File: TUV/Data #483

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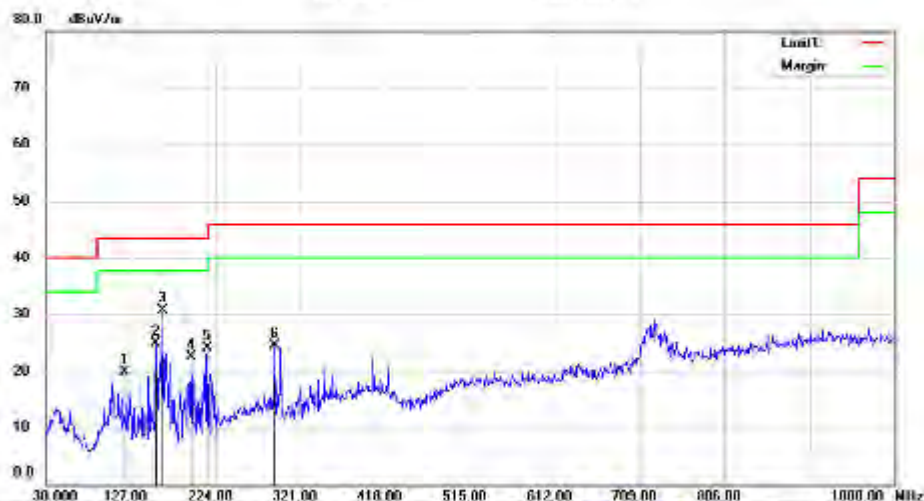


Radiated Emission Measurement

File: TUV

Date: #454

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

M/N: NS-SPBTRICK-SB

Model: BLE 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		120.2400	36.18	-16.38	19.82	43.50	-23.68	QP		
2		156.1000	43.48	-18.48	25.00	43.50	-18.50	QP		
3		153.8300	49.67	-19.00	30.67	43.50	-12.83	QP		
4		195.8700	39.30	-16.76	22.54	43.50	-20.96	QP		
5		214.3000	40.49	-16.38	24.11	43.50	-19.39	QP		
6		291.9000	37.60	-13.32	24.28	46.00	-21.72	QP		

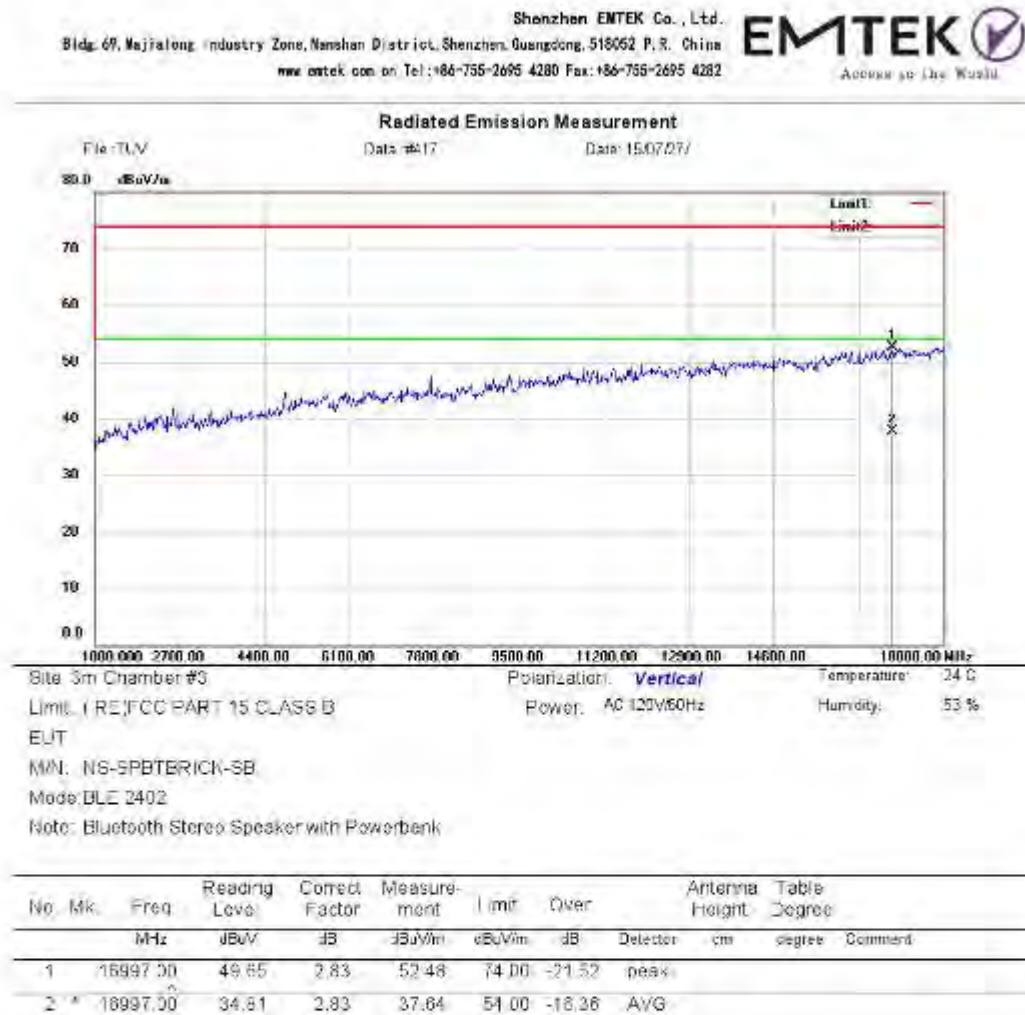
*Maximum data x: Over limit, Lower margin

Operator: TUV

File: TUV/Data #454

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Figure 17: Test figure of Radiated Spurious Emissions (1GHz –25GHz), Low Energy (Low)



* Maximum data x: Over limit Lower margin

Operator: 105

File: TUV/Data #417

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Radiated Emission Measurement

File: TUV

Date: #416

Date: 15/07/17

30.0 $\mu\text{B}/\text{m}$



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Model: BLE 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	$\mu\text{B}/\text{m}$	Factor	ment	$\mu\text{B}/\text{m}$	dB	Detector	Height	Degree
				dB	$\mu\text{B}/\text{m}$	$\mu\text{B}/\text{m}$	dB		cm	degree
1		16759.00	46.95	1.84	51.79	74.00	-22.21	peak		
2	*	16759.00	34.64	1.84	36.48	51.00	-17.52	AVG		

*Maximum data, Δ Over limit, Lower margin

Operator: TUV

File: TUVData #416

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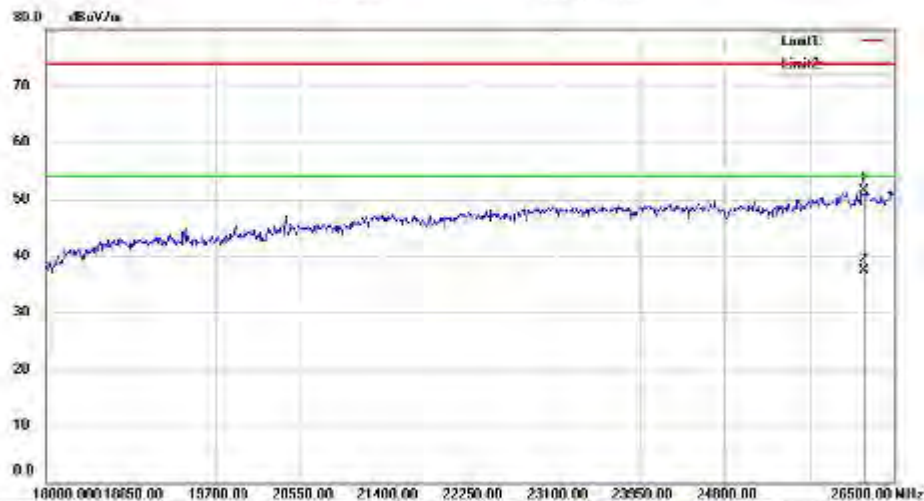


Radiated Emission Measurement

File: TUV

Data: #497

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: BLE 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
					dBuV/m				cm	degree
1		25202.50	87.08	-35.54	51.54	74.00	-22.46	peak		
2	*	26202.50	72.78	-35.54	37.24	51.00	-13.76	AVG		

* Maximum data, x: Over limit, Lower margin

Operator: 100

File: TUV/Data #497

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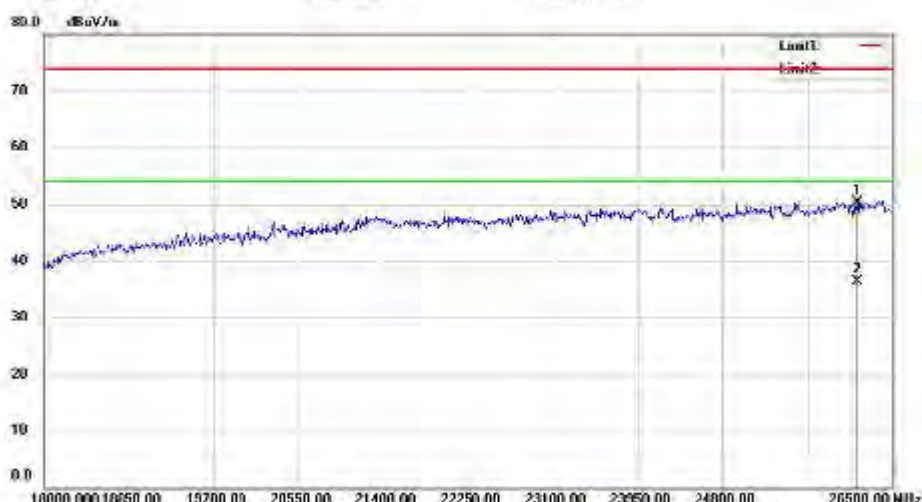


Radiated Emission Measurement

File: TUV

Data: #486

Date: 15/07/2017



Site: 3m Chamber #3
Limit: (RE) FCC PART 15 CLASS B
EUT
M/N: NS-SPBTERICK-SB
Mode: BLE 2402
Note: Bluetooth Stereo Speaker with Powerbank
Polarization: **Vertical**
Power: AC 120V/60Hz
Temperature: 24 °C
Humidity: 53 %

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		26151.50	85.84	-35.61	50.23	74.00	-23.77	peak		
2	*	26151.50	71.89	-35.61	36.28	54.00	-17.72	AVG		

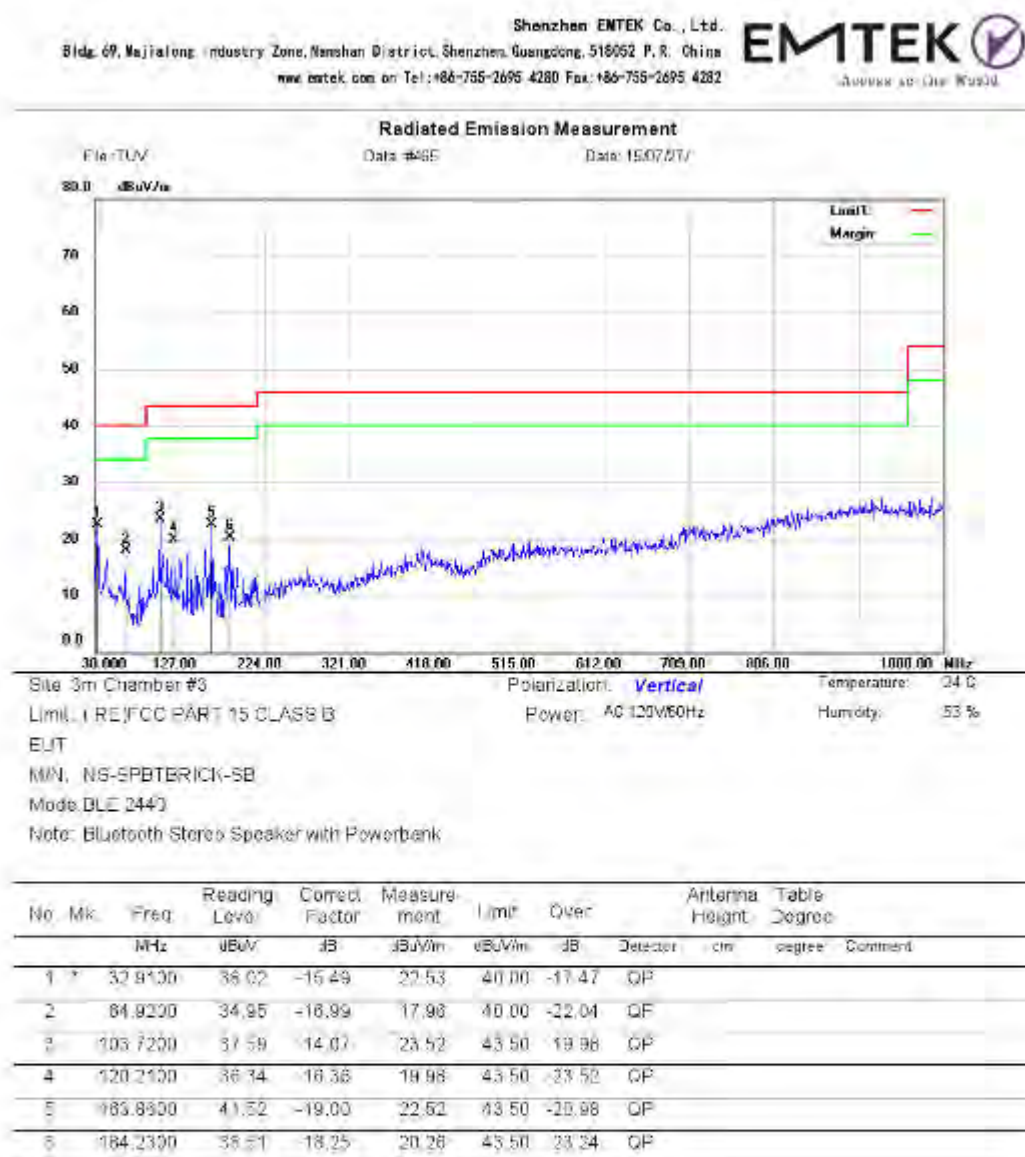
* Maximum data x Over limit Lower margin

Operator: 105

File: TUV/Data #486

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Figure 18: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), Low Energy (Mid)



*Maximum data x: Over limit Level margin

Operator: TUV

File: TUV/Data #465

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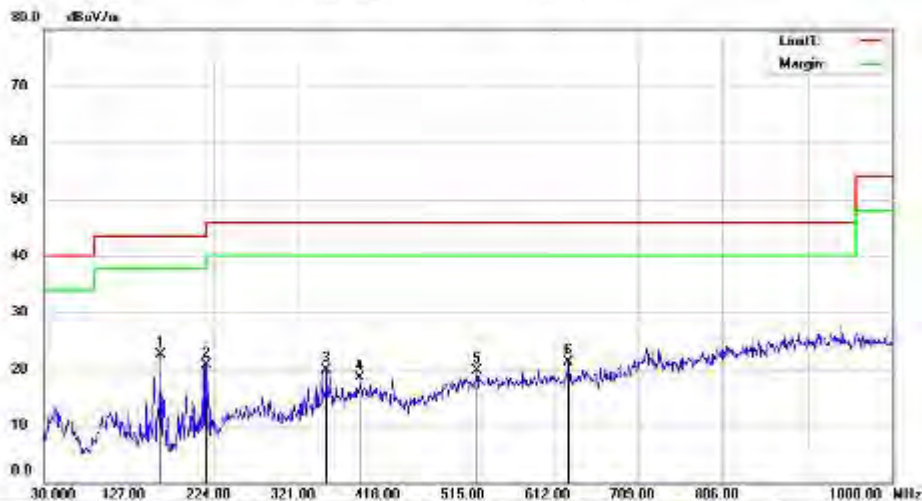


Radiated Emission Measurement

File: TUV

Date: #455

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Mode: BLE 2440

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	155.8500	41.43	-19.00	22.43	43.50	-21.07	QP		
2		215.2700	37.08	-18.38	20.70	43.50	-22.80	QP		
3		352.0400	31.28	-11.42	19.86	46.00	-26.14	QP		
4		391.8100	27.79	-9.33	18.46	46.00	-27.54	QP		
5		525.6700	27.36	-7.58	19.78	46.00	-26.22	QP		
6		629.4600	27.64	-6.69	21.25	46.00	-24.75	QP		

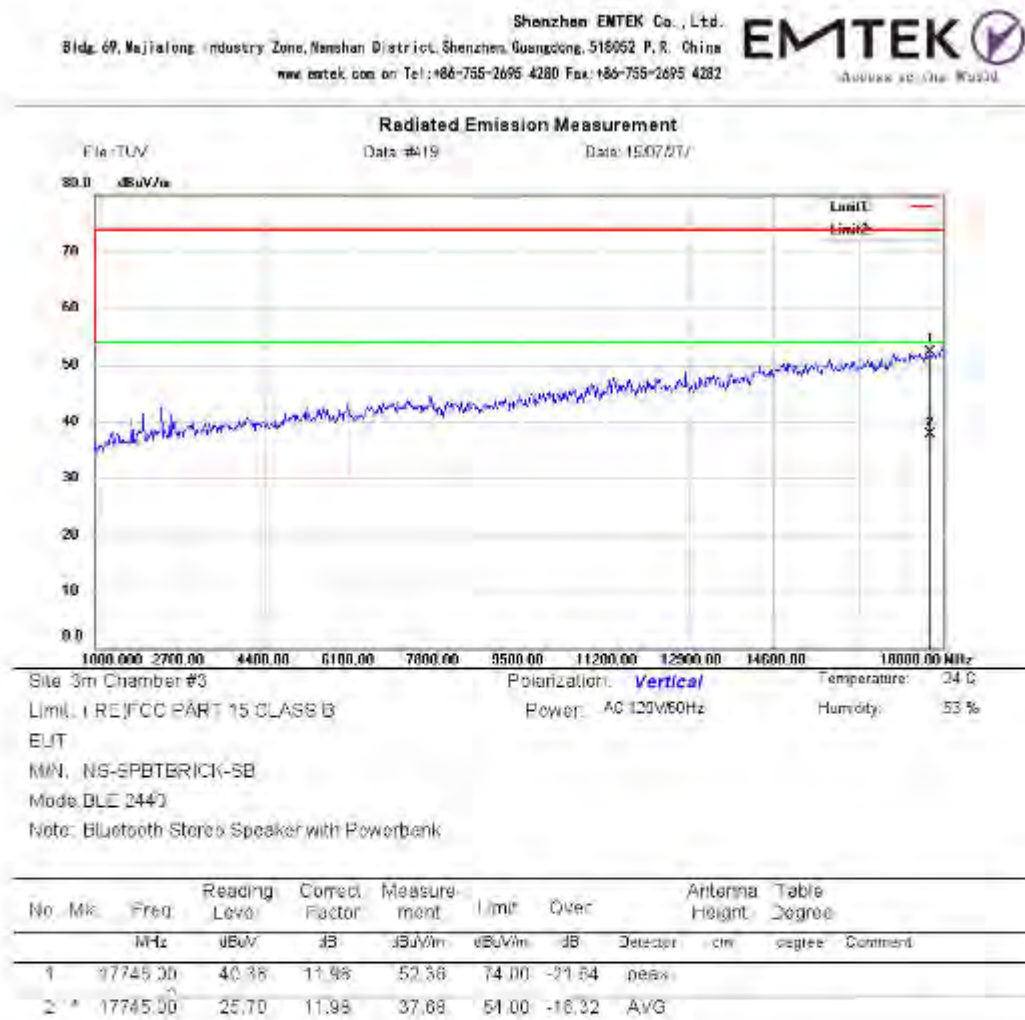
* (Maximum data) x (Over limit) Lower triangle

Operator: 100

File: TUV/Data #455

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Figure 19: Test figure of Radiated Spurious Emissions (1GHz –25GHz), Low Energy (Mid)



*Maximum data x: Over limit Level margin

Operator: TUV

File: TUV/Data #419

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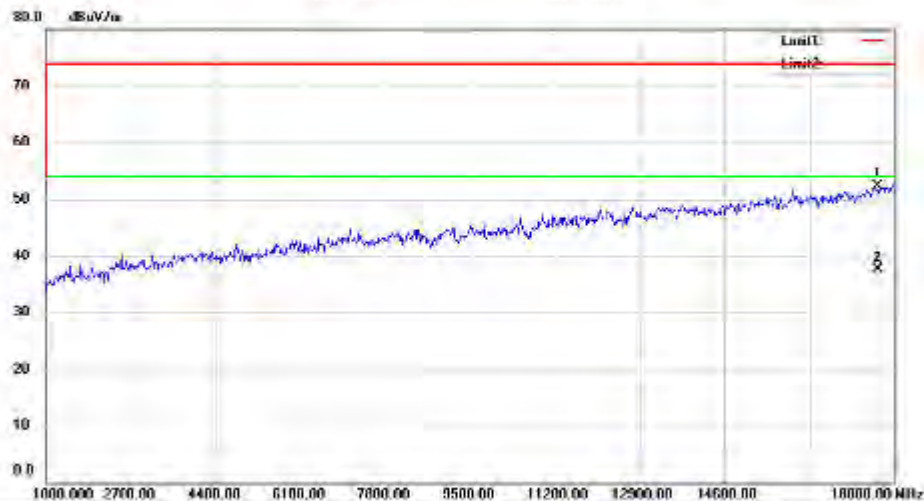


Radiated Emission Measurement

File: TUV

Data: #420

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Model: BLE 2440

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		17877.00	41.19	11.18	52.35	74.00	-21.65	peak		
2	*	17877.00	26.26	11.18	37.42	54.00	-16.58	AVG		

*Maximum data α.Over limit Lower margin

Operator: TUV

File: TUVData #420

Report

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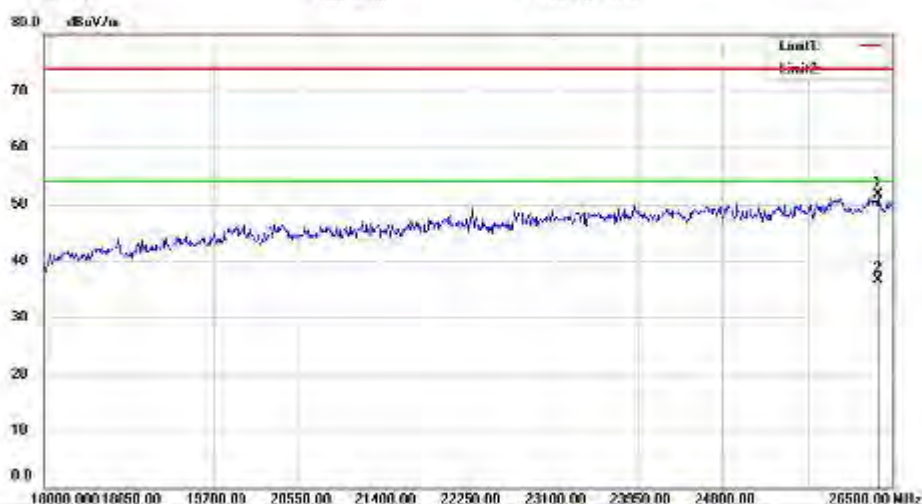


Radiated Emission Measurement

File: TUV

Date: #89

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

MM: NS-SPBTERICK-SB

Model: BLE 2440

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		25355.50	87.14	-35.38	51.78	74.00	-22.22	peak		
2	*	26335.50	71.84	-35.38	36.48	54.00	-17.52	AVG		

* Maximum data, Over limit, Lower margin

Operator: 105

File: TUV/Data #89

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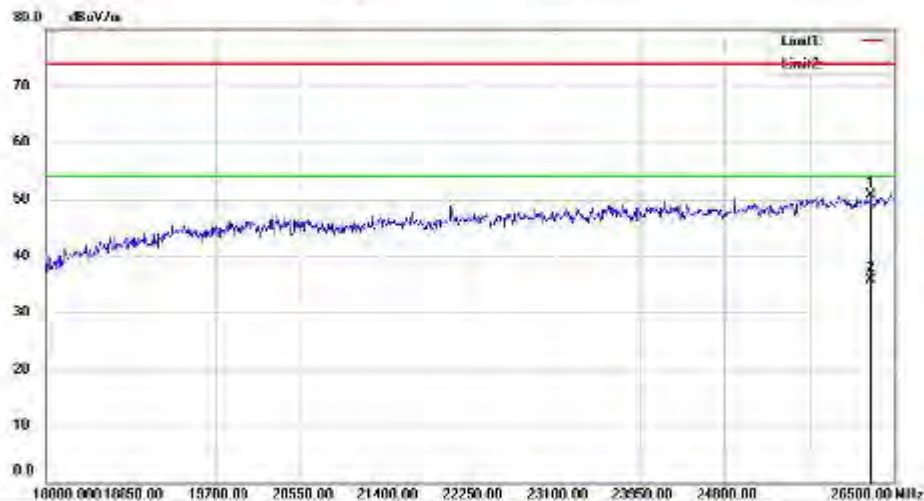


Radiated Emission Measurement

File: TUV

Data: #490

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Model: BLE 2440

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
					dBuV/m				cm	degree
1		25282.00	86.20	-35.47	50.73	74.00	-23.27	peak		
2	*	26282.00	71.22	-35.47	35.75	51.00	-15.25	AVG		

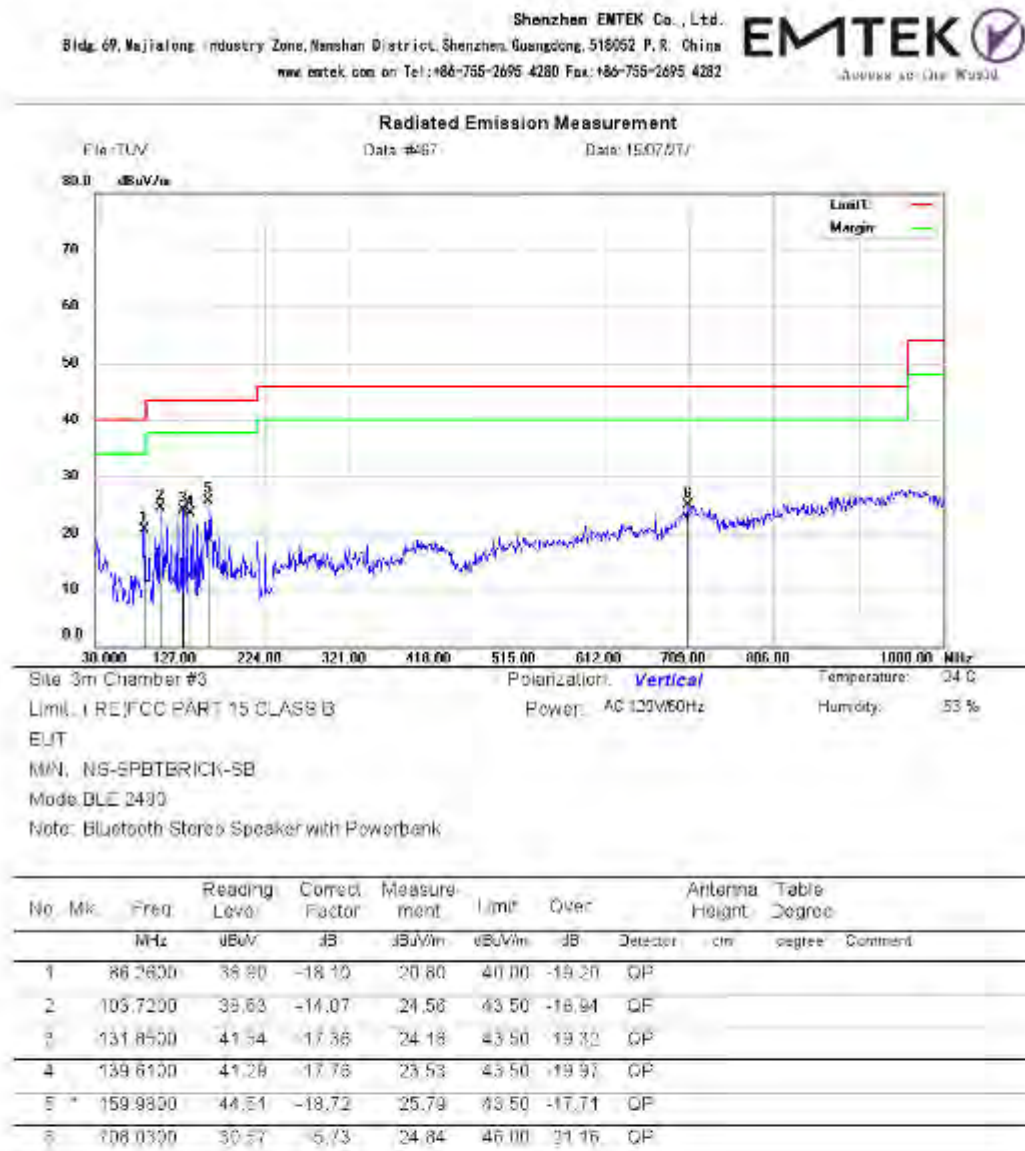
*Maximum data. x: Over limit. Lower margin

Operator: 105

File: TUVData_#490

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Figure 20: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), Low Energy (High)



*Maximum data x: Over limit Level margin

Operator: RW

File: TUVData #457

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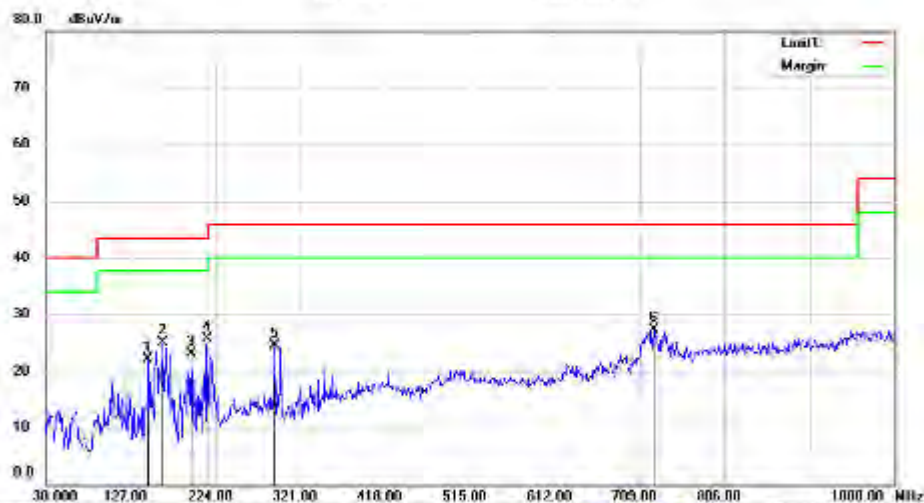


Radiated Emission Measurement

File: TUV

Date: #456

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Model: BLE 2490

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		147.5700	40.10	-18.02	22.08	43.50	-21.42	QP		
2		183.8800	44.17	-19.00	25.17	43.50	-18.33	QP		
3		195.8700	39.80	-18.76	23.04	43.50	-20.46	QP		
4 *		214.3000	41.99	-18.38	25.61	43.50	-17.89	QP		
5		291.9000	37.88	-13.32	24.56	46.00	-21.42	QP		
6		724.5200	32.53	-5.21	27.32	46.00	-18.68	QP		

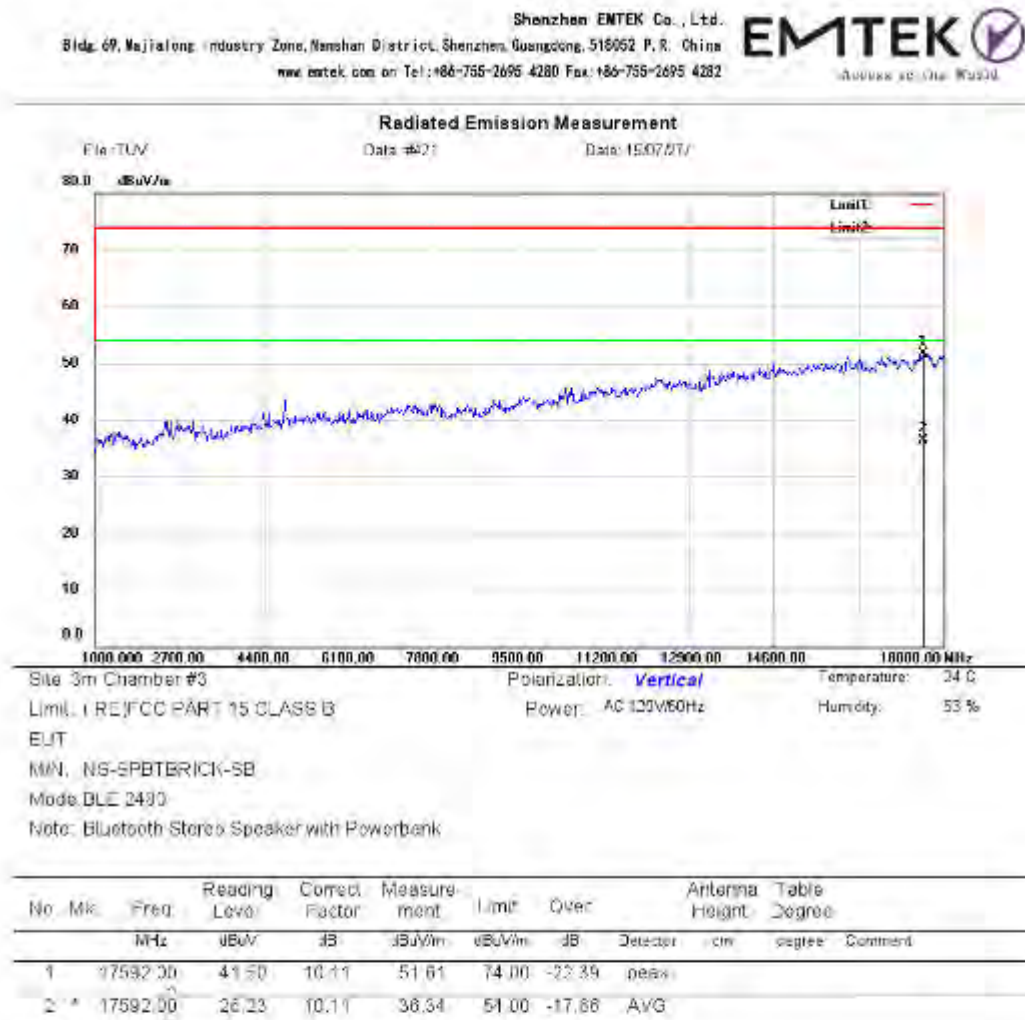
*Maximum data α.Over limit Lower margin

Operator: TUV

File: TUVData #456

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Figure 21: Test figure of Radiated Spurious Emissions (1GHz –25GHz), Low Energy (High)



*Maximum data, Over limit, Level margin

Operator: RLV

File: TUVData #421

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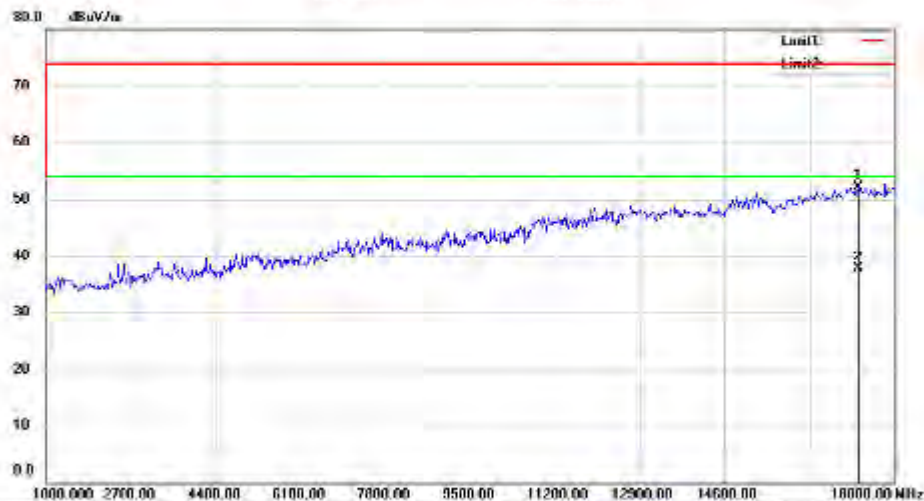


Radiated Emission Measurement

File: TUV

Date: #422

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Model: BLE 2490

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		17285.00	45.84	-8.36	52.20	74.00	-21.80	peak		
2	*	17288.00	31.28	-8.36	37.64	51.00	-13.36	AVG		

*Maximum data | Over limit | Lower margin

Operator: TUV

File: TUVData #422

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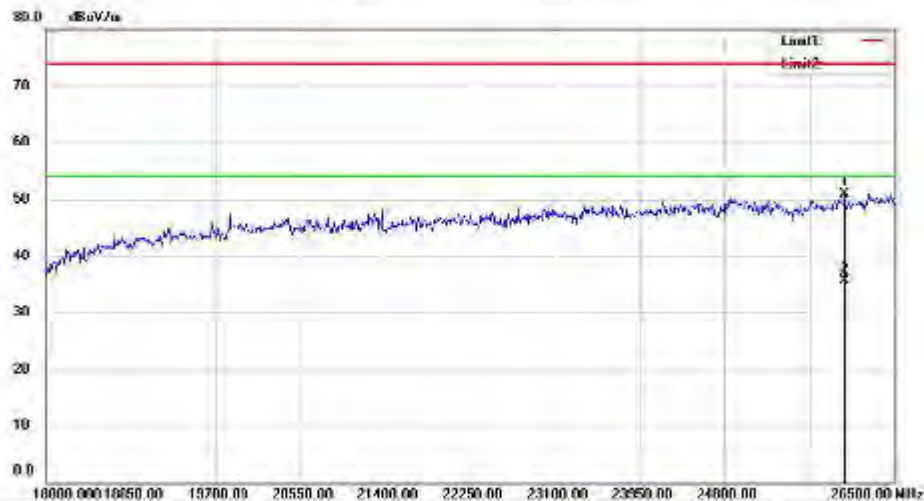


Radiated Emission Measurement

File: TUV

Date: #491

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: BLE 2490

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq	Reading	Correc	Measure	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		25007.00	86.62	-35.78	50.84	74.00	-23.16	peak		
2	*	26007.00	71.27	-35.78	35.49	51.00	-15.51	AVG		

* Maximum data x Over limit Lower margin

Operator: 105

File: TUVData #491

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Radiated Emission Measurement

File: TUV

Data: #492

Date: 15.07.2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTERICK-SB

Model: BLE 2490

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25117.50	86.48	-35.65	50.83	74.00	-23.17	peak		
2	*	26117.50	71.13	-35.65	35.48	54.00	-18.52	AVG		

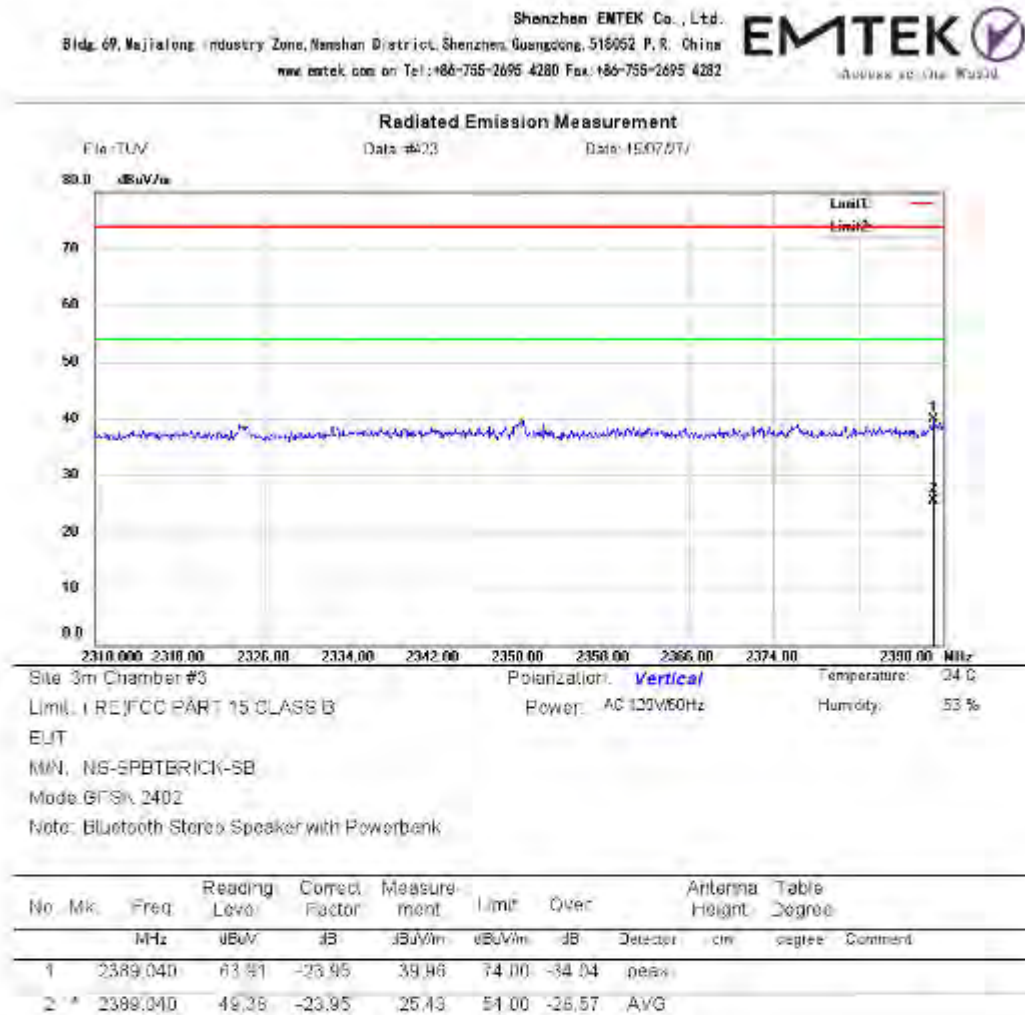
*Maximum data, x:Over limit, Lower margin

Operator: 180

File: TUVData #492

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Figure 22: Test figure of Radiated Emissions in Restricted Bands, BDR (Low)



*Maximum data x: Over limit Level margin

Operator: TUV

File: TUVData #423

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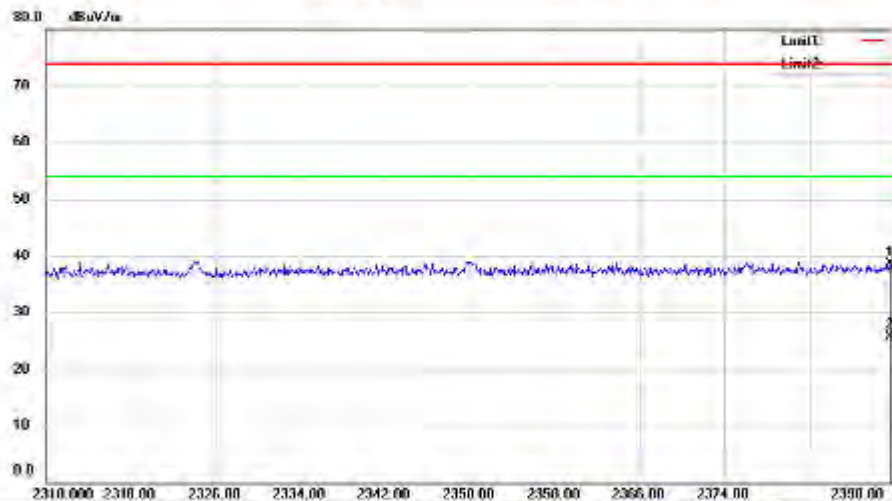


Radiated Emission Measurement

File: TUV

Date: #424

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE/FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

MMN, NS-SPBTRICK-SB

Mode: GFSK, 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		2389.600	49.40	-23.95	38.45	54.00	-35.55	peak		
2	*	2389.600	49.57	-23.95	25.62	54.00	-28.38	AVG		

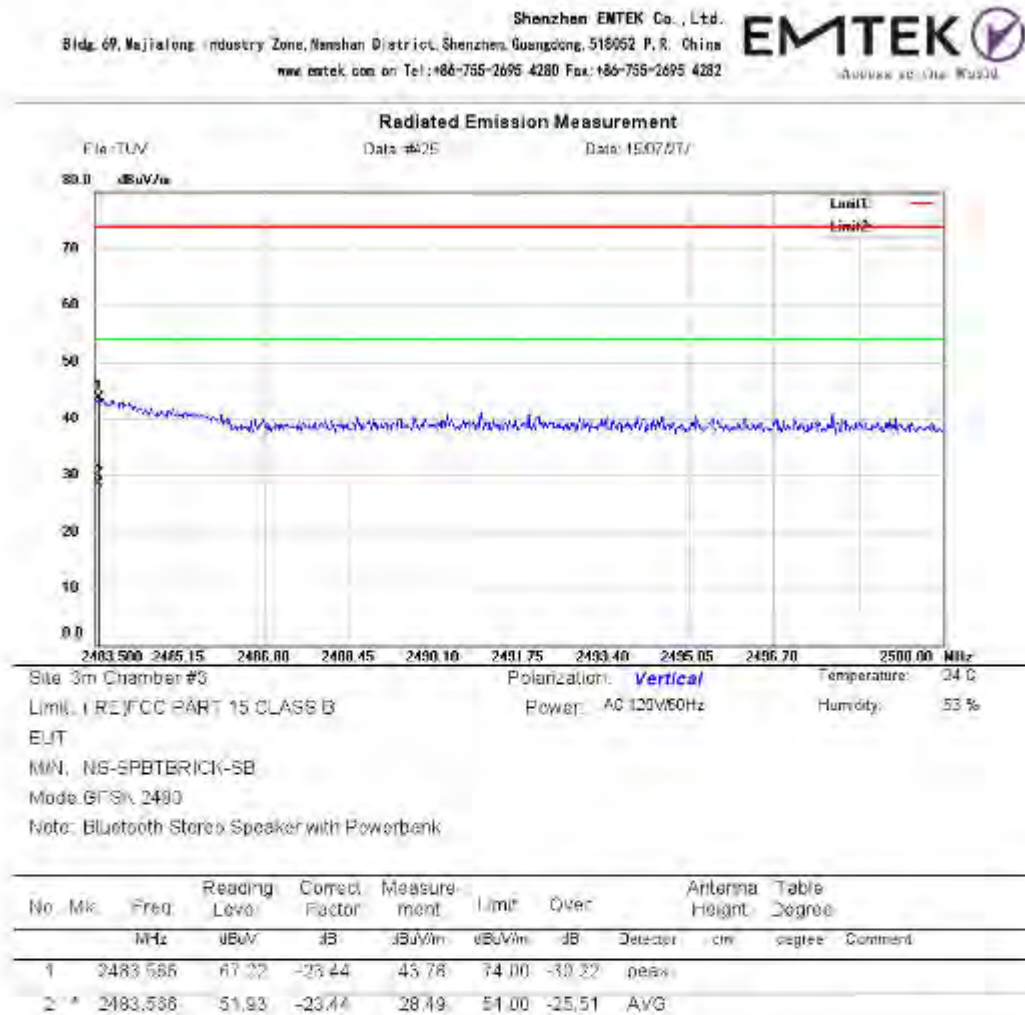
*Maximum data, x:Over limit, Lower margin

Operator: TUV

File: TUVData #424

Report

Figure 23: Test figure of Radiated Emissions in Restricted Bands, BDR (High)



*Maximum data x: Over limit Level margin

Operator: RLV

File: TUVData #425

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Radiated Emission Measurement

File: TUV

Date: #426

Date: 15/07/17



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 °C
Limit: (RE) FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT
M/N: NS-SPBTRICK-SB
Mode: GPSix 2490
Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree
				dB	dBuV/m			cm	degree
1		2483.685	47.28	-23.44	43.79	74.00	-30.21	peak	
2	*	2483.885	52.06	-23.44	28.62	54.00	-25.38	AVG	

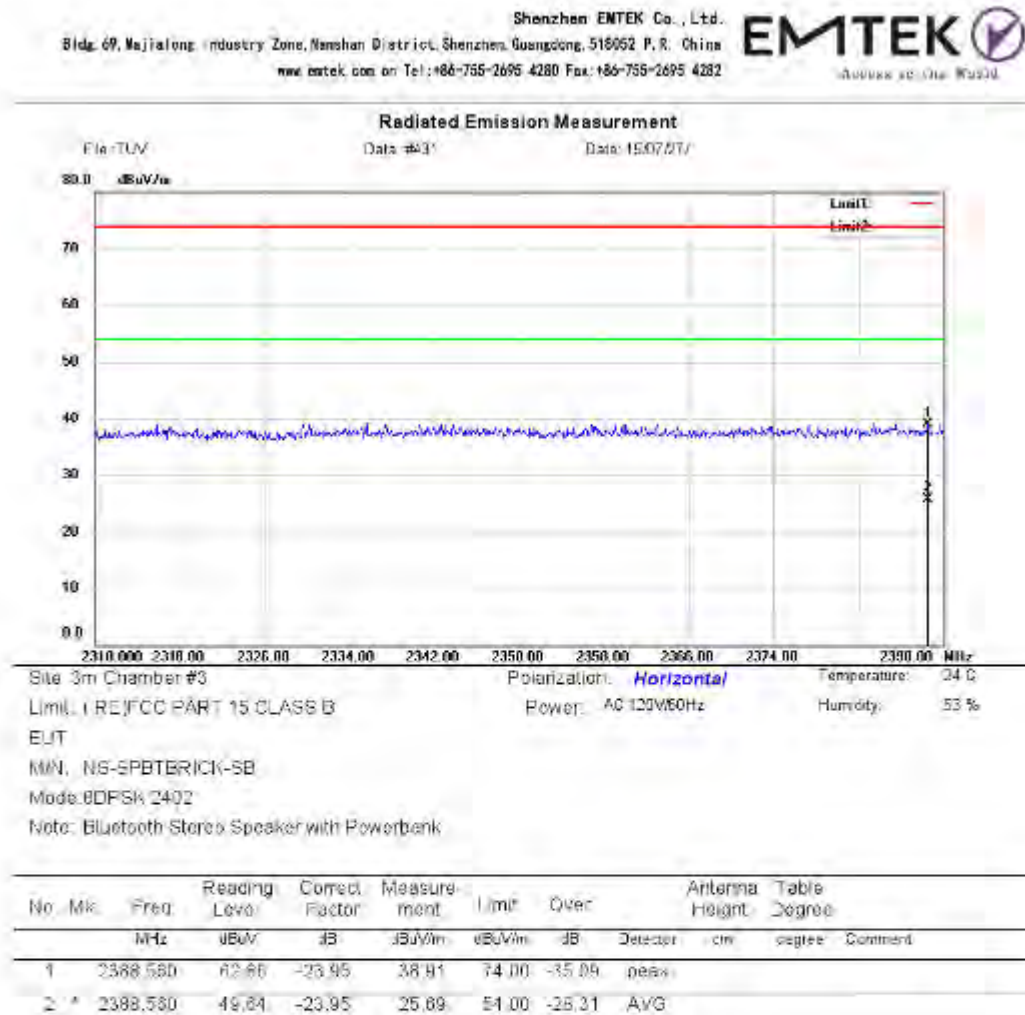
*Maximum data x:Over limit :Lower margin

Operator: TUV

File: TUVData #426

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Figure 24: Test figure of Radiated Emissions in Restricted Bands, EDR (Low),



*Maximum data: x: Over limit, Level margin:

Operator: RLV

File: TUVData_#431

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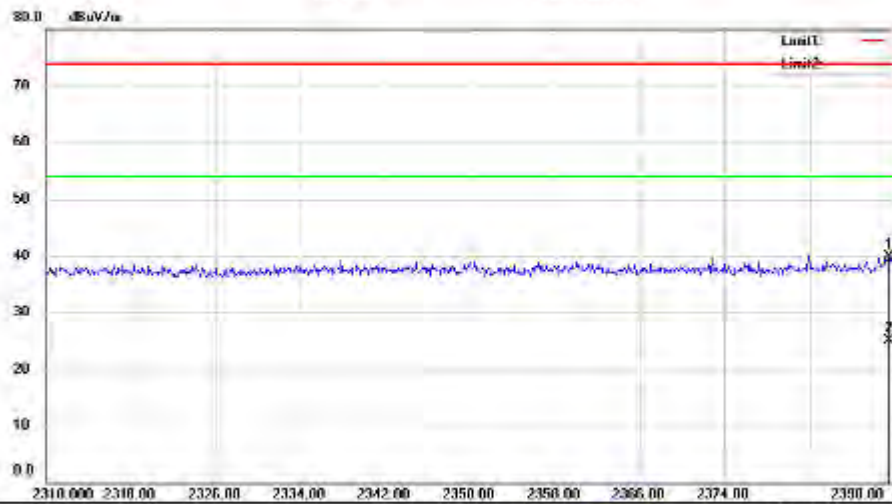


Radiated Emission Measurement

File: TUV

Data: #432

Date: 15/07/21



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

MIN: NS-SPBTRICK-SB

Mode: 8DPSK 24Q2

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2389.520	63.84	-23.95	39.89	54.00	-34.11	peak			
2	*	2389.520	49.13	-23.95	25.18	54.00	-28.82	AVG			

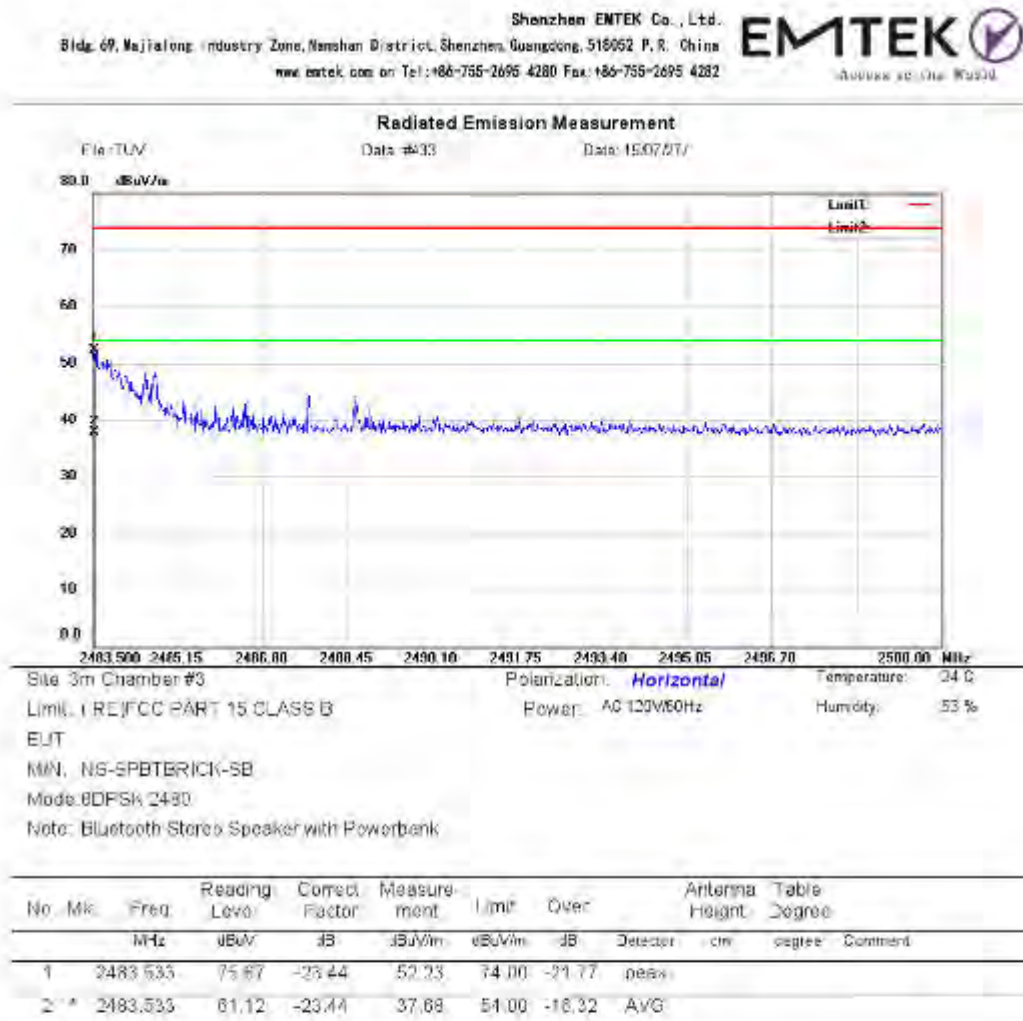
*Maximum data, < Over limit, < Level margin

Operator: TUV

File: TUVData #432

Report #

Figure 25: Test figure of Radiated Emissions in Restricted Bands, EDR (High)



*Maximum data x: Over limit | Lower margin

Operator: TUV

File: TUVData #433

Report

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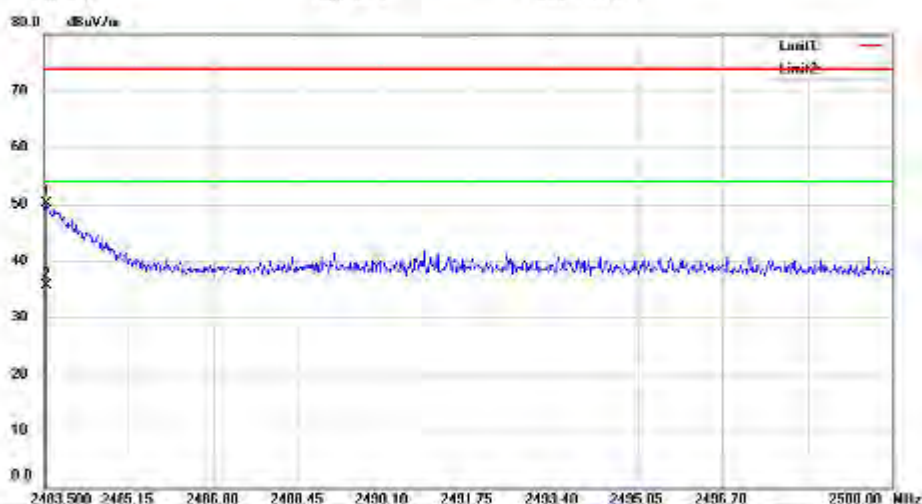


Radiated Emission Measurement

File: TUV

Date: #434

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

M/N: NS-SPBTRICK-SB

Mode: BPSK 2480

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.550	73.51	-23.44	50.07	74.00	-23.93	peak			
2	*	2483.550	55.90	-23.44	32.46	54.00	-18.54	AVG			

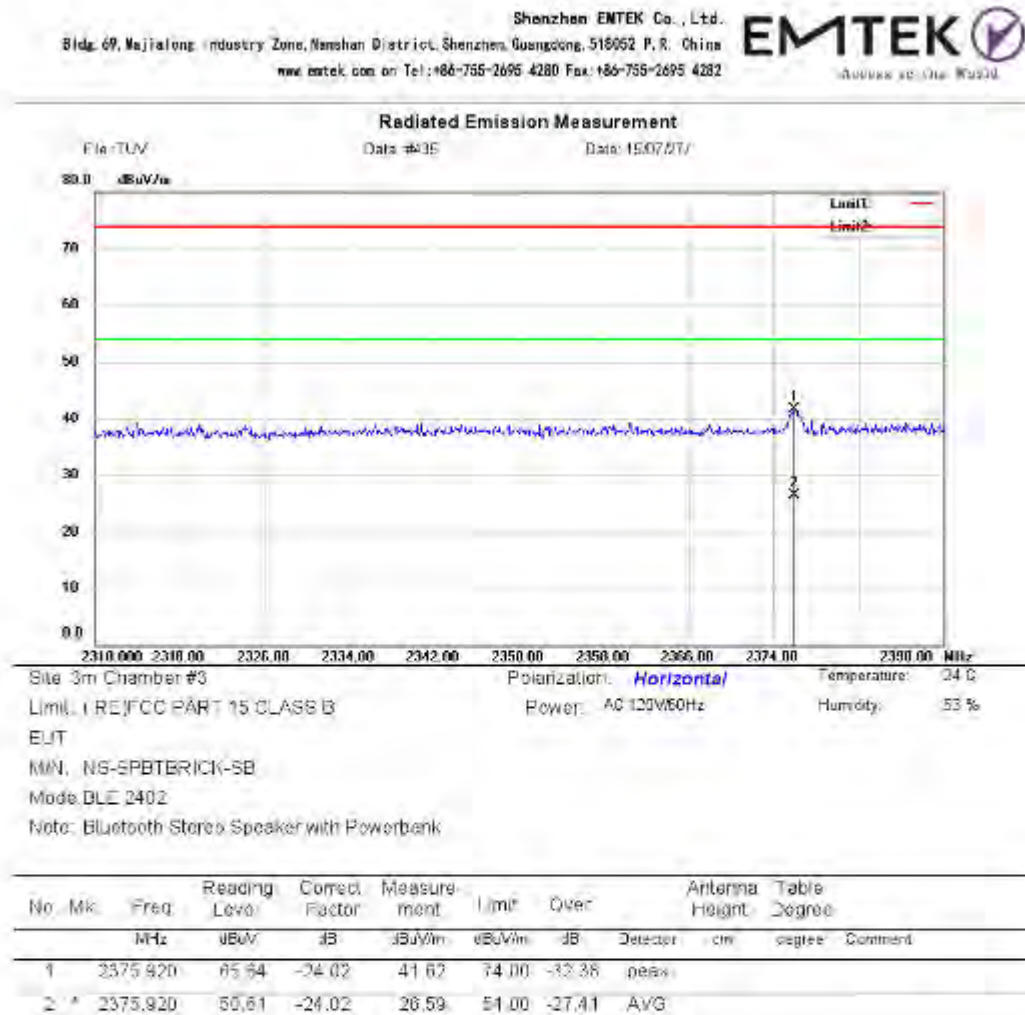
*Maximum data x: Over limit : Lower margin

Operator: TUV

File: TUVData #434

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Figure 26: Test figure of Radiated Emissions in Restricted Bands, Low Energy (Low),



*Maximum data x Over limit Level margin

Operator: KVV

File: TUVData #435

Page: 11

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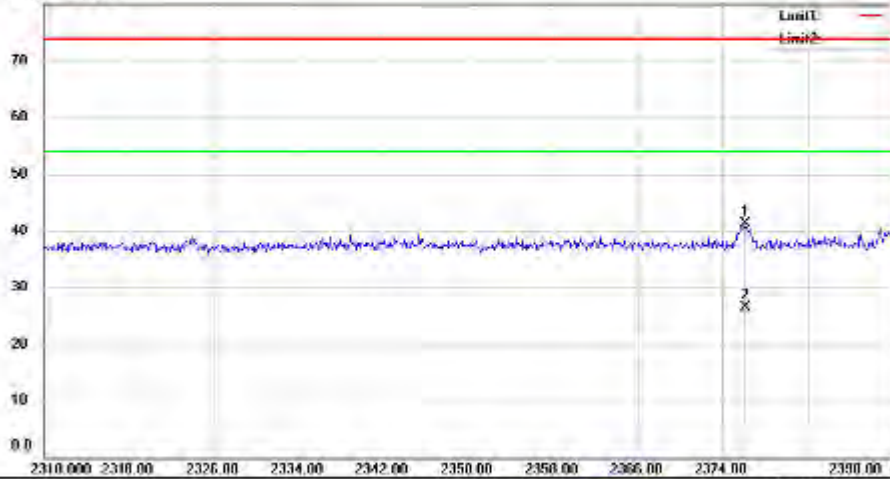
Radiated Emission Measurement

File: TUV

Date: #436

Date: 15/07/17

30.0 $\mu\text{B}/\text{m}$



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

MMN: NS-SPBTRICK-SB

Model: BLE 2402

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	$\mu\text{B}/\text{m}$	Factor	ment	$\mu\text{B}/\text{m}$	dB	Height	Degree	
								cm	degree	Comment
1		2378.150	65.36	-24.02	41.34	74.00	-32.66	peak		
2	*	2378.150	50.61	-24.02	26.59	54.00	-27.41	AVG		

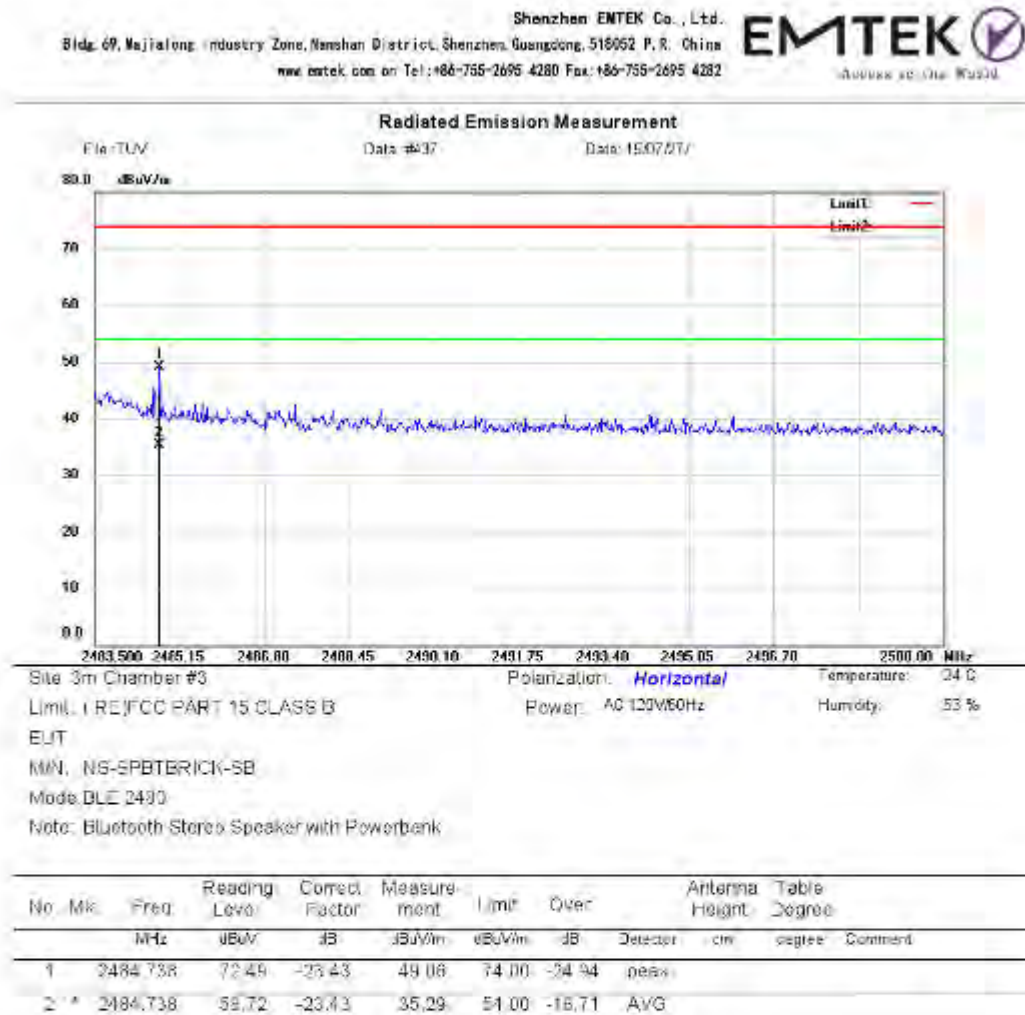
*Maximum data α Over limit β Lower margin

Operator: TUV

File: TUVData #436

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Figure 27: Test figure of Radiated Emissions in Restricted Bands, Low Energy (High)



*Maximum data x: Over limit Level margin

Operator: KVV

File: TUVData #437

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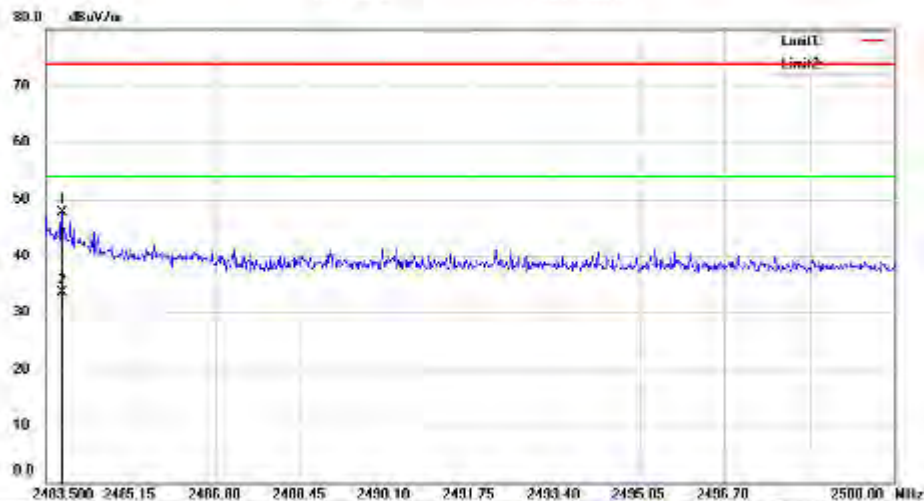


Radiated Emission Measurement

File: TUV

Data: #436

Date: 15/07/17



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: (RE) FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT

Model: NS-SPBTRICK-SB

Model: BLE 2490

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		2483.814	71.22	-23.44	47.78	54.00	-26.22	peak		
2		2483.814	57.00	-23.44	33.56	54.00	-20.44	AVG		

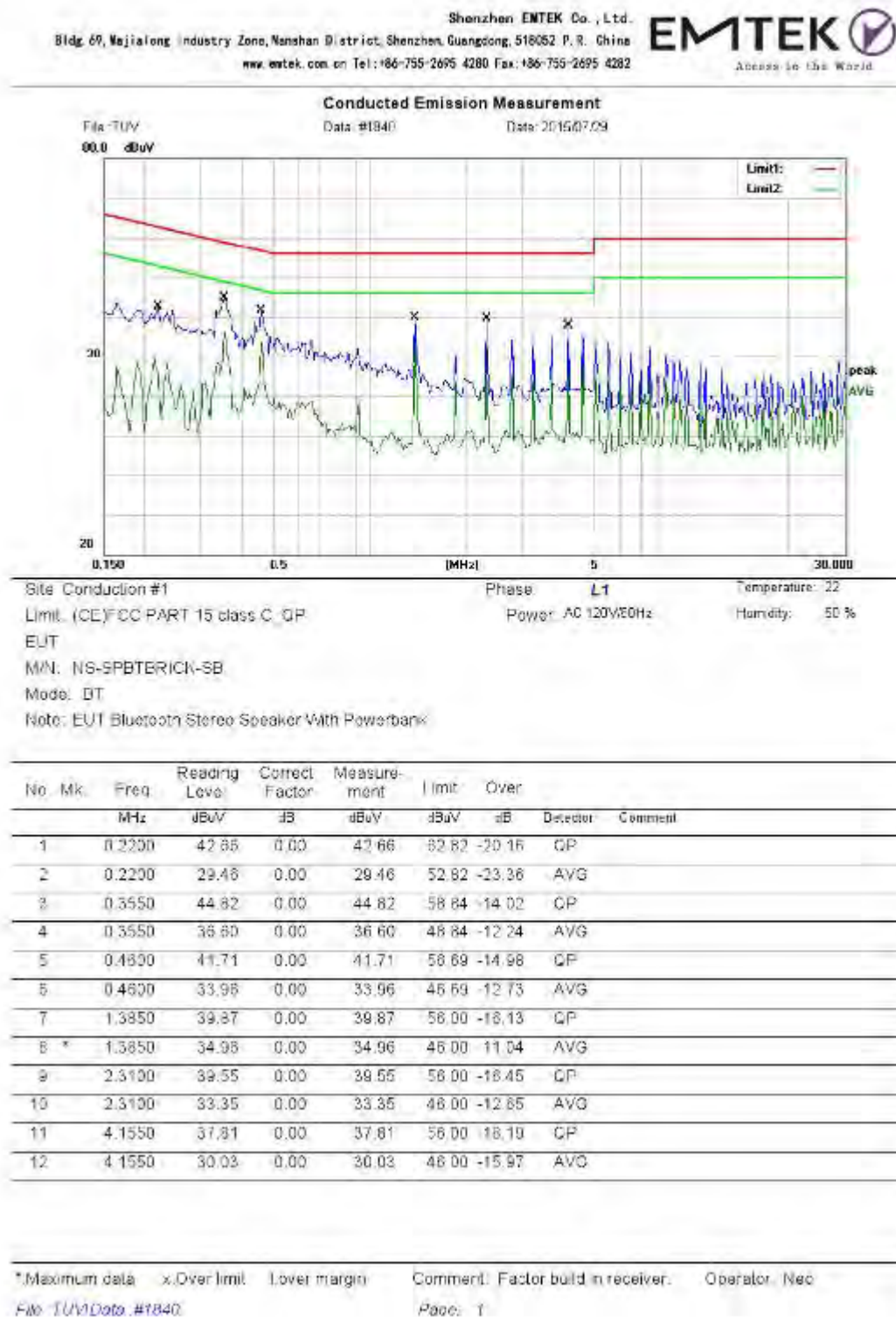
*Maximum data, Over limit, Lower margin

Operator: TUV

File: TUV/Data #436

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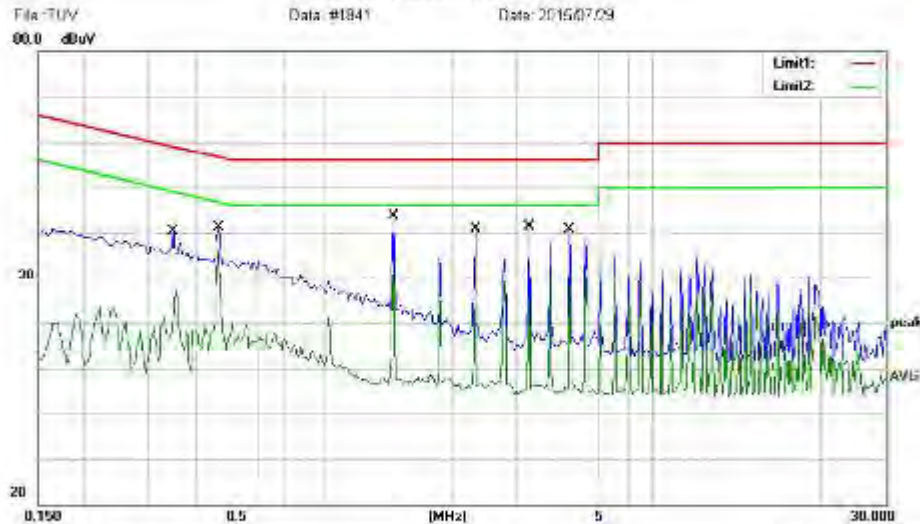
Figure 28: Test figure of Conducted Emissions



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Conducted Emission Measurement



Site: Conduction #1 Phase: **N** Temperature: 22
Limit: (CE) FCC PART 15 class C, QP Power: AC 120V/50Hz Humidity: 50 %
EUT
M/N: NS-SPBTERICK-SB
Model: DT
Note: EUT Bluetooth Stereo Speaker With Powerbank

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3500	40.27	0.00	40.27	58.96	-18.69	QP	
2		0.3500	27.32	0.00	27.32	48.96	-21.64	AVG	
3		0.4650	41.18	0.00	41.18	56.60	-15.42	QP	
4		0.4650	36.33	0.00	36.33	46.60	-10.27	AVG	
5		1.3850	43.73	0.00	43.73	58.00	-14.27	QP	
6 *		1.3850	35.96	0.00	35.96	46.00	-10.04	AVG	
7		2.3100	40.91	0.00	40.91	58.00	-17.09	QP	
8		2.3100	33.58	0.00	33.58	46.00	-12.42	AVG	
9		3.2300	41.38	0.00	41.38	58.00	-16.62	QP	
10		3.2300	33.38	0.00	33.38	46.00	-12.62	AVG	
11		4.1500	40.55	0.00	40.55	56.00	-15.45	QP	
12		4.1500	31.89	0.00	31.89	46.00	-14.11	AVG	

* Maximum data x Over limit Lower margin Comment: Factor build in receiver. Operator: Neo

File: TUVData_#1841

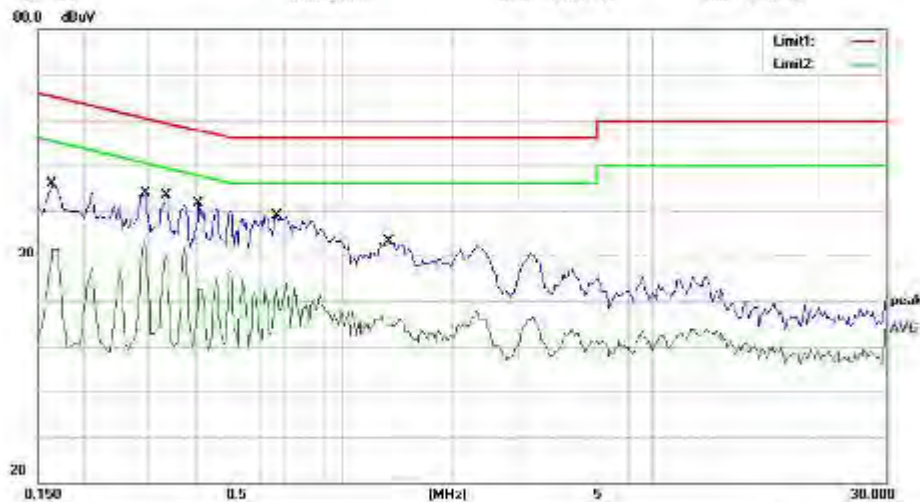
Page: 1

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Conducted Emission Measurement

File: TUV Data: #1836 Date: 2016/07/29 Time: 14:38:15



Site: Conduction #1 Phase: L1 Temperature: 22
Limit: (CE) FCC PART 15 class B QP Power: AC 120V/50Hz Humidity: 50 %
EUT
M/N: NS-SPBTERICK-SB
Model: charging full load
Note: EUT Bluetooth Stereo Speaker With Powerbank

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1650	45.84	0.00	45.84	55.21	-19.37	QP	
2		0.1850	31.69	0.00	31.69	55.21	-23.52	AVG	
3		0.2950	43.93	0.00	43.93	60.38	-16.45	QP	
4		0.2950	33.31	0.00	33.31	50.38	-17.07	AVG	
5	*	0.3350	43.39	0.00	43.39	59.33	-15.94	QP	
6		0.3350	31.92	0.00	31.92	49.33	-17.41	AVG	
7		0.4100	41.71	0.00	41.71	57.65	-15.94	QP	
8		0.4100	22.64	0.00	22.64	47.65	-25.01	AVG	
9		0.6700	38.95	0.00	38.95	56.00	-17.05	QP	
10		0.6700	23.84	0.00	23.84	46.00	-22.16	AVG	
11		1.3500	33.47	0.00	33.47	56.00	-22.53	QP	
12		1.3500	16.98	0.00	16.98	46.00	-29.02	AVG	

*Maximum data x: Over limit, lower margin Comment: Factor build in receiver. Operator: Neo

File: TUVData_#1836

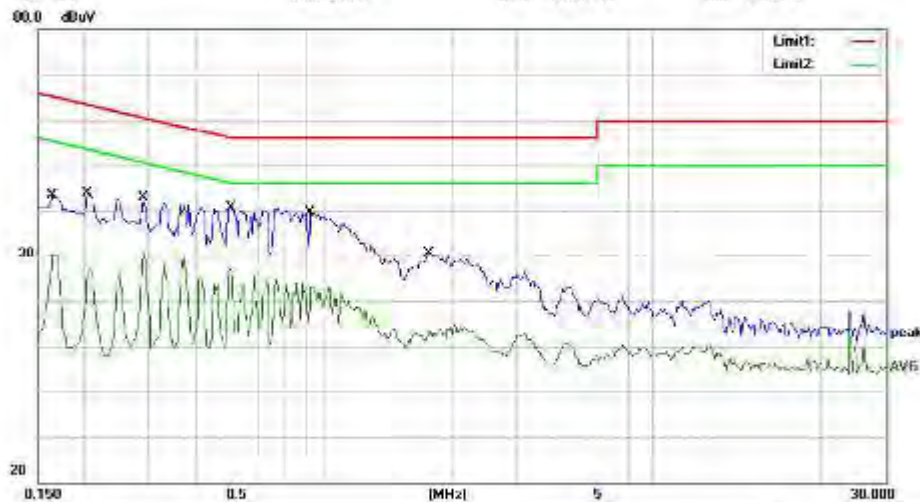
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Conducted Emission Measurement

File: TUV Data: #1837 Date: 2016/07/29 Time: 14:38:30



Site: Conduction #1 Phase: N Temperature: 22
Limit: (CE) FCC PART 15 class B QF Power: AC 120V 50Hz Humidity: 50 %
EUT
M/N: NS-SPBTERICK-SB
Model: charging full load
Note: EUT Bluetooth Stereo Speaker With Powerbank

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1650	43.32	0.00	43.32	55.21	-21.89	CP	
2		0.1650	30.28	0.00	30.28	55.21	-24.93	AVG	
3		0.2050	43.80	0.00	43.80	53.41	-19.61	CP	
4		0.2050	27.12	0.00	27.12	53.41	-26.29	AVG	
5		0.2900	42.87	0.00	42.87	50.52	-17.65	CP	
6		0.2900	31.10	0.00	31.10	50.52	-19.42	AVG	
7	*	0.5000	40.60	0.00	40.60	58.00	-17.40	CP	
8		0.5000	27.53	0.00	27.53	58.00	-18.47	AVG	
9		0.8250	39.71	0.00	39.71	58.00	-18.29	CP	
10		0.8250	24.18	0.00	24.18	58.00	-21.84	AVG	
11		1.7300	30.71	0.00	30.71	58.00	-25.29	CP	
12		1.7300	14.92	0.00	14.92	58.00	-31.08	AVG	

*Maximum data x Over limit Lower margin Comment: Factor build in receiver. Operator: Neo

File: TUVData_#1837

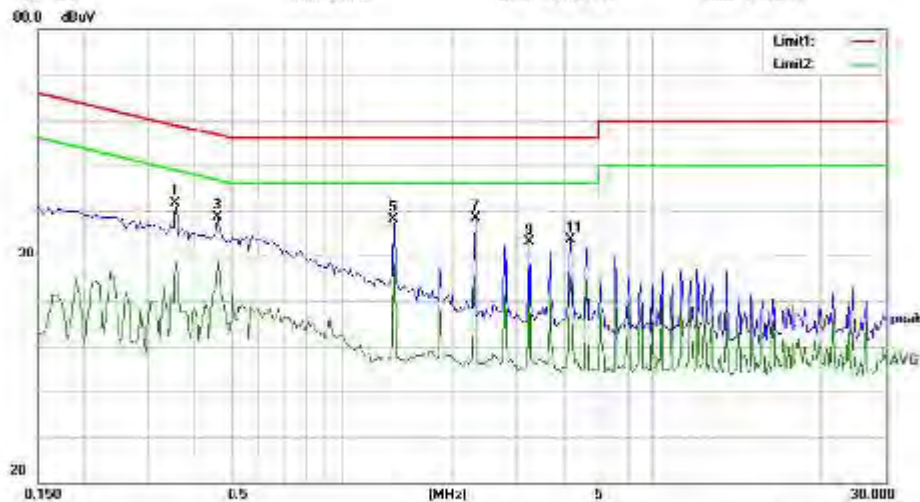
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Conducted Emission Measurement

File: TUV Data: #1838 Date: 2016/07/29 Time: 14:41:30



Site: Conduction #1 Phase: L1 Temperature: 22
Limit: (CE) FCC PART 15 class B QP Power: AC 120V/50Hz Humidity: 50 %
EUT: NS-SPBTERICK-SB
Model: charging AUX IN
Note: EUT Bluetooth Stereo Speaker With Powerbank

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3550	41.56	0.00	41.56	58.84	-17.28	peak	
2		0.3550	28.63	0.00	28.63	48.84	-20.21	AVG	
3		0.4600	38.71	0.00	38.71	56.69	-17.98	peak	
4		0.4600	28.68	0.00	28.68	46.69	-18.01	AVG	
5		1.3850	38.13	0.00	38.13	58.00	-17.87	peak	
6 *		1.3850	29.67	0.00	29.67	48.00	-18.33	AVG	
7		2.3100	38.37	0.00	38.37	58.00	-17.63	peak	
8		2.3100	28.87	0.00	28.87	48.00	-17.13	AVG	
9		3.2350	33.08	0.00	33.08	58.00	-22.94	peak	
10		3.2350	26.38	0.00	26.38	48.00	-19.62	AVG	
11		4.1700	33.67	0.00	33.67	58.00	-22.33	peak	
12		4.1700	25.19	0.00	25.19	48.00	-20.81	AVG	

*Maximum data x: Over limit l: over margin Comment: Factor build in receiver. Operator: Neo

File: TUVData.#1838

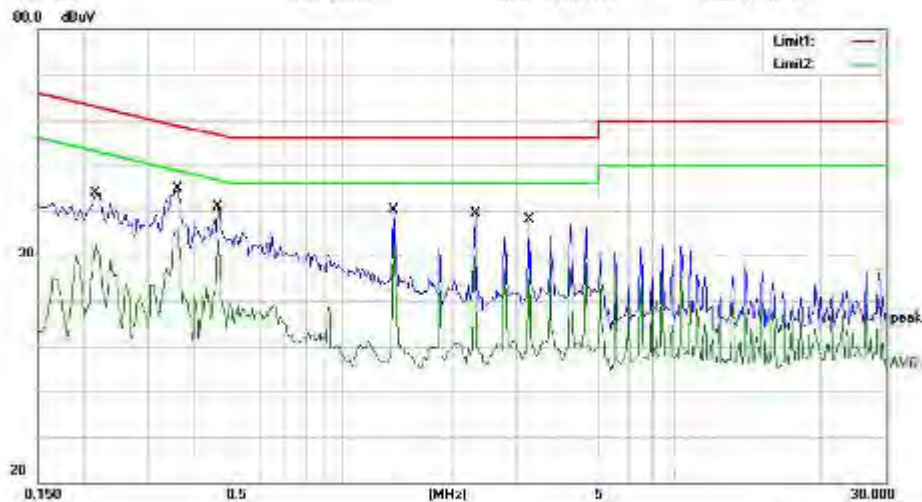
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Conducted Emission Measurement

File: TUV Data: #1839 Date: 2016/07/29 Time: 14:43:09



Site: Conduction #1 Phase: N Temperature: 22
Limit: (CE) FCC PART 15 class B QP Power: AC 120V/50Hz Humidity: 50 %
EUT: NS-SPBTERICK-SB
Model: charging AUX IN
Note: EUT Bluetooth Stereo Speaker With Powerbank

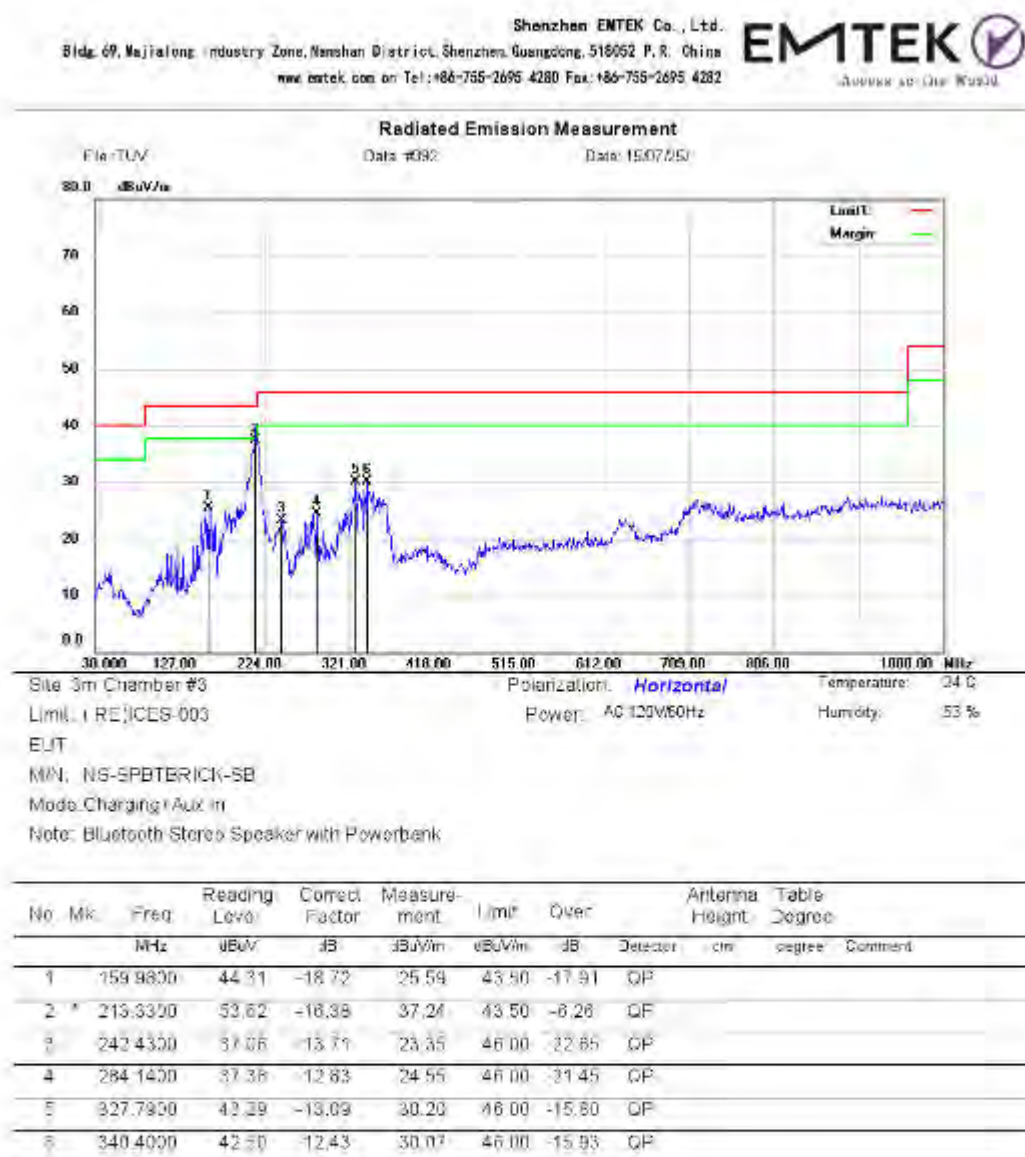
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.2150	43.88	0.00	43.88	53.01	-19.13	QP	
2		0.2150	32.62	0.00	32.62	53.01	-20.39	AVG	
3		0.3600	44.88	0.00	44.88	58.73	-13.85	QP	
4		0.3600	36.22	0.00	36.22	48.73	-12.51	AVG	
5		0.4800	40.77	0.00	40.77	58.69	-17.92	QP	
6		0.4800	33.96	0.00	33.96	48.69	-14.73	AVG	
7		1.3850	40.09	0.00	40.09	58.00	-17.91	QP	
8	*	1.3850	35.19	0.00	35.19	48.00	-12.81	AVG	
9		2.3100	39.49	0.00	39.49	58.00	-18.51	QP	
10		2.3100	33.62	0.00	33.62	48.00	-14.38	AVG	
11		3.2350	38.10	0.00	38.10	58.00	-19.90	QP	
12		3.2350	30.54	0.00	30.54	48.00	-17.46	AVG	

*Maximum data x: Over limit, lower margin Comment: Factor built in receiver. Operator: Neo

File: TUVData_#1839

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Figure 29: Test figure of Radiated Emissions



*Maximum data x:Over limit Level margin

Operator: RW

File: TUV/Data: #392

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Radiated Emission Measurement

File: TUV

Date: #393

Date: 15/07/2015



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: RE JCES-003

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: Charging/Aux in

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		30.9700	41.41	-16.13	25.28	40.00	-14.72	QP		
2		47.4800	42.06	-13.97	28.09	40.00	-11.91	QP		
3		95.9800	38.00	-14.89	23.11	43.50	20.39	QP		
4		131.8500	44.40	-17.36	27.04	43.50	-16.46	QP		
5		159.9800	54.28	-18.72	35.56	43.50	-7.94	QP		
6		212.3600	52.87	-16.38	36.49	43.50	-7.01	QP		

*Maximum data x: Over limit | : over margin

Operator: TUV

File: TUV/Data: #393

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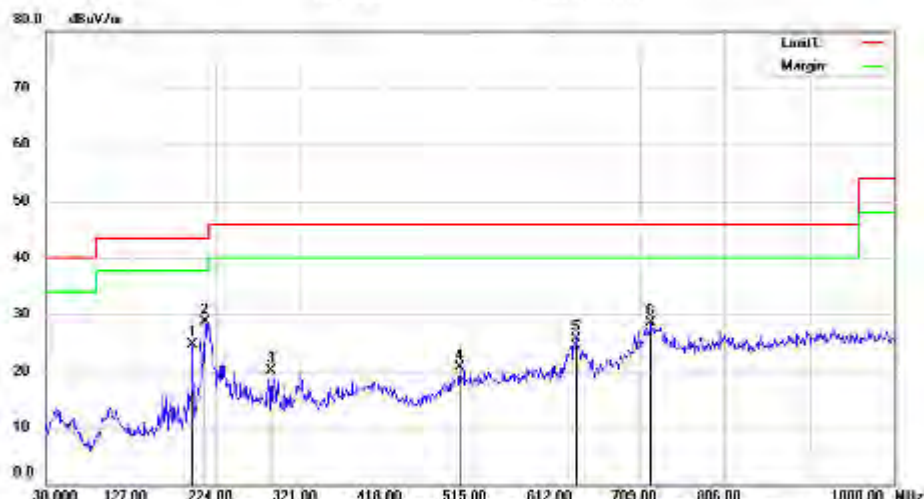


Radiated Emission Measurement

File: TUV

Date: #095

Date: 15/07/2015



Site: 3m Chamber #3

Limit: I RE JICES-003

ELIT

M/N: NS-SPBTRICK-SB

Mode: BT Mode

Note: Bluetooth Stereo Speaker with Powerbank

Polarization: Horizontal

Temperature: 24 °C

Power: AC 120V/60Hz

Humidity: 53 %

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		197.8100	41.23	-16.59	24.64	43.50	-18.86	QP		
2 *		211.3900	41.10	-16.38	24.72	43.50	-18.78	QP		
3		268.0200	33.16	-13.07	20.09	46.00	-25.91	QP		
4		502.3900	35.57	-17.78	17.79	46.00	-28.21	QP		
5		836.2500	32.35	-8.63	23.82	46.00	-22.18	QP		
6		120.6400	33.82	-6.33	28.59	46.00	-17.41	QP		

*Maximum data α: Over limit Lower margin

Operator: TUV

File: TUV/Data #095

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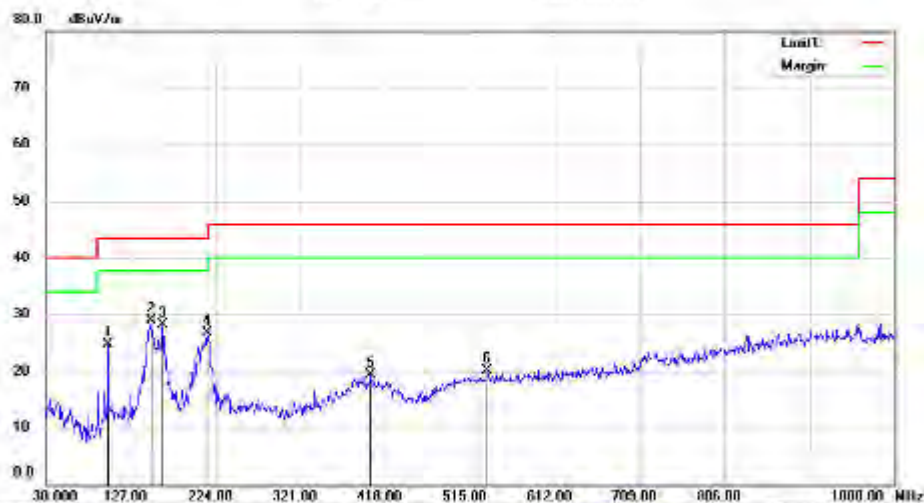


Radiated Emission Measurement

File: TUV

Date: #096

Date: 15/07/2015



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RE JCES-003

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: BT Mode

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1		100.8100	38.80	-14.02	24.78	43.50	-18.72	QP		
2 *		150.2900	47.06	-18.12	28.94	43.50	-14.56	QP		
3		163.8300	47.10	-19.00	28.10	43.50	-15.40	QP		
4		214.3000	43.15	-18.38	24.77	43.50	-18.73	QP		
5		401.5100	28.29	-8.90	19.37	46.00	-26.63	QP		
6		535.3700	27.30	-7.51	20.19	46.00	-25.81	QP		

*Maximum data α. Over limit β. Level margin

Operator: TUV

File: TUVData #096

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Radiated Emission Measurement

File: TUV

Date: #508

Date: 15/07/2017

30.0 $\mu\text{V/m}$



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RE JICES-003

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

M/N: NS-SPBTRICK-SB

Mode: G&T AUX IN

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	$\mu\text{V/m}$	Factor	ment	$\mu\text{V/m}$	Factor	Height	Degree	
								cm	degree	Comment
1		120.2400	44.06	-18.38	27.70	43.50	-15.80	QP		
2		174.5300	46.16	-19.22	26.94	43.50	-16.56	QP		
3		194.9000	46.94	-18.65	30.09	43.50	-13.41	QP		
4	*	215.2700	50.36	-18.38	33.98	43.50	-9.52	QP		
5		281.8300	42.16	-12.77	29.39	46.00	-16.61	QP		
6		310.3300	39.68	-13.67	26.01	46.00	-19.99	QP		

*Maximum data α : Over limit β : Lower margin

Operator: TUV

File: TUV/Data #508

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Radiated Emission Measurement

File: TUV

Date: #509

Date: 15/07/2017

30.00 $\mu\text{V/m}$



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RE JCES-003

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: GUT/AUX IN

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	$\mu\text{V/m}$	dB	ment	$\mu\text{V/m}$	dB	Height	Degree	
								cm	degree	Comment
1		48.4300	46.44	-14.40	32.04	40.00	-7.96	QP		
2		94.0200	43.19	-15.45	27.74	43.50	-15.76	QP		
3		131.8500	44.23	-17.36	26.87	43.50	-16.63	QP		
4		148.3400	47.64	-18.04	29.60	43.50	-13.90	QP		
5		195.8700	46.26	-16.76	29.50	43.50	-14.00	QP		
6		215.2700	52.25	-16.38	35.87	43.50	-7.63	QP		

*Maximum data α .Over limit Lower margin

Operator: TUV

File: TUV/Data #509

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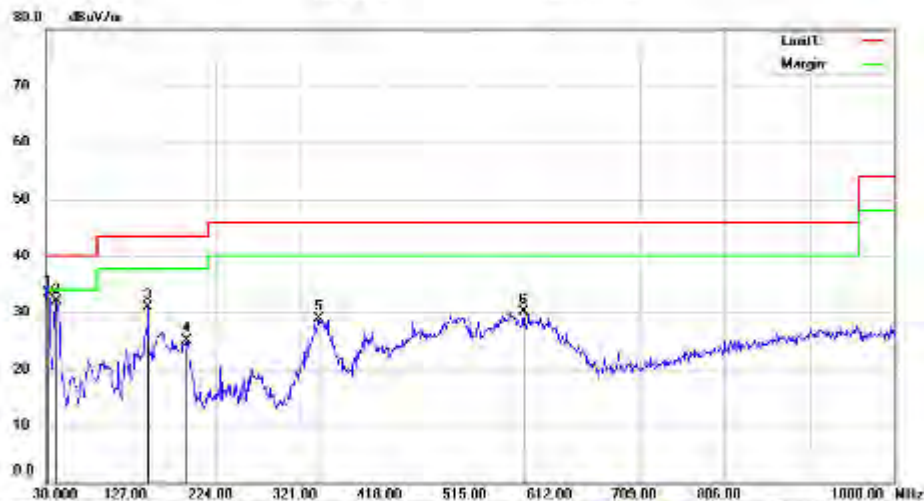


Radiated Emission Measurement

File: TUV

Date: #534

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I REICES 003

Power: AC 120V/60Hz

Humidity: 53 %

ELIT

M/N: NS-SPBTERICK-SB

Mode: Charging+Full Load

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	
								cm	degree	Comment
1	*	32.8100	48.73	-16.49	33.24	40.00	-6.76	QP		
2		41.6400	44.88	-12.93	31.95	40.00	-8.05	QP		
3		147.3700	48.84	-18.02	30.82	43.50	-12.68	QP		
4		191.0200	42.35	-17.19	25.16	43.50	-18.34	QP		
5		342.8400	41.28	-12.26	29.02	46.00	-17.03	QP		
6		576.1100	37.34	-7.19	30.15	46.00	-15.85	QP		

*Maximum data α.Over limit Lower margin

Operator: TUV

File: TUV/Data #534

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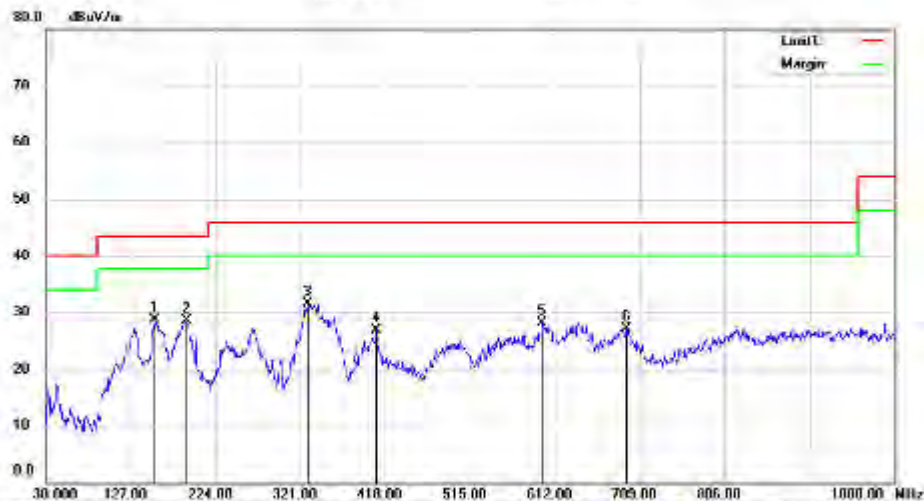


Radiated Emission Measurement

File: TUV

Date: #535

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RS/CIS 003

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: Charging+Full Load

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBμV	Factor	ment	dBμV/m	dB	Detector	Height	Degree
									cm	degree
										Comment
1		155.1300	47.08	-18.42	28.66	43.50	-14.84	QP		
2		191.0200	45.69	-17.19	28.50	43.50	-15.00	QP		
3		328.7800	44.52	-13.04	31.48	46.00	-14.52	QP		
4		408.3000	35.91	-9.10	26.81	46.00	-19.19	QP		
5		597.4500	35.18	-7.02	28.16	46.00	-17.84	QP		
6		693.4800	33.19	-6.05	27.14	46.00	-18.86	QP		

*Maximum data α.Over limit Lower margin

Operator: TUV

File: TUV/Data #535

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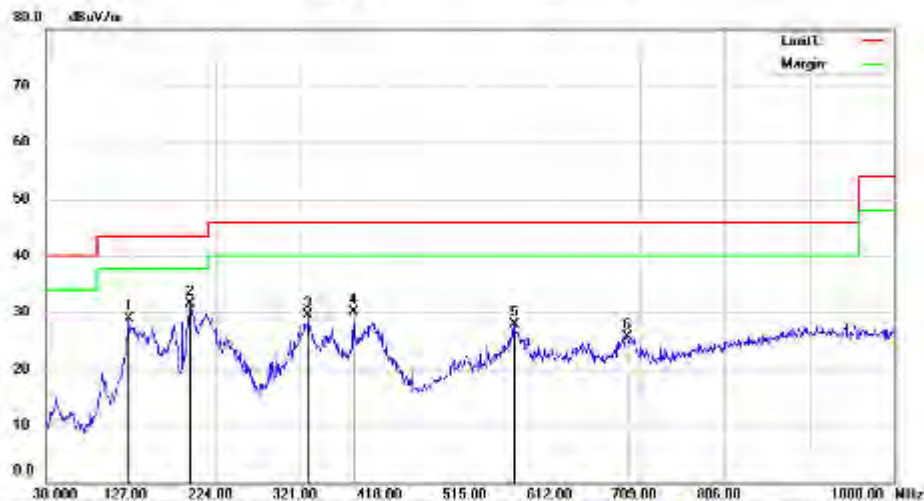


Radiated Emission Measurement

File: TUV

Date: #536

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 °C

Limit: I RS/CIS 003

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: Bat+Full Load

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
1		125.0800	45.68	-16.81	28.87	43.50	-14.53	QP		
2	*	194.9000	48.29	-16.85	31.44	43.50	-12.06	QP		
3		329.7300	42.40	-12.99	29.41	46.00	16.59	QP		
4		381.1400	40.12	-9.94	30.18	46.00	15.82	QP		
5		585.4400	35.31	-7.26	27.95	46.00	18.05	QP		
6		695.4200	31.82	-6.02	25.80	46.00	20.20	QP		

*Maximum data α. Over limit Lower margin

Operator: TUV

File: TUV/Data #536

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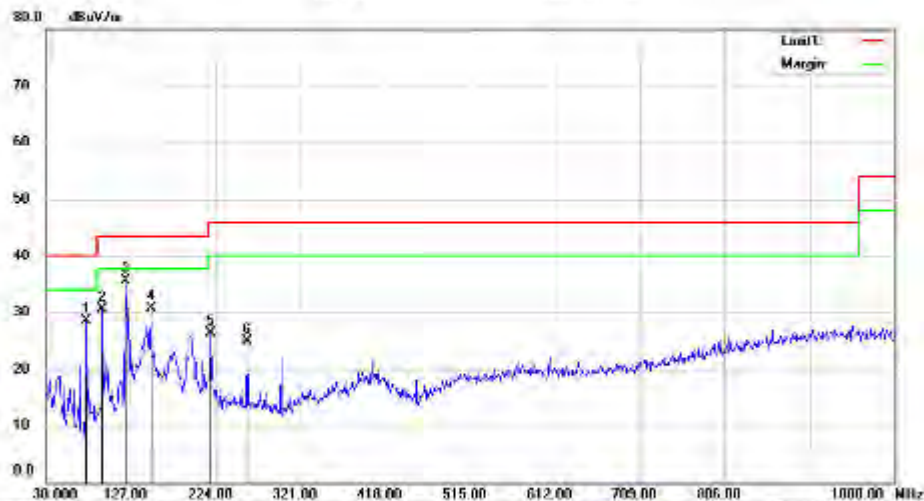


Radiated Emission Measurement

File: TUV

Date: #537

Date: 15/07/2017



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 °C

Limit: I RS/CIS 003

Power: AC 120V/60Hz

Humidity: 53 %

EUT

M/N: NS-SPBTRICK-SB

Mode: Gd+Full Load

Note: Bluetooth Stereo Speaker with Powerbank

No.	Mk.	Freq.	Reading	Correc.	Measure-	Limit	Over	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Height	Degree
									cm	degree
										Comment
1		75.5900	48.05	-19.50	28.55	40.00	-11.45	QP		
2		94.0200	45.96	-15.45	30.51	43.50	-12.99	QP		
3		121.1800	51.95	-16.45	35.50	43.50	-8.00	QP		
4		150.2800	48.86	-18.12	30.74	43.50	-12.76	QP		
5		218.1800	42.77	-16.37	26.40	46.00	-19.60	QP		
6		260.8600	37.36	-12.79	24.57	46.00	-21.43	QP		

*Maximum data α. Over limit Lower margin

Operator: TUV

File: TUV/Data #537

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