

FCC/IC Radio Test Report

FCC ID: 2AAFMSHS0001 IC: 10954A-SHS0001

This report concerns (check one): Original Grant Class II Change

Issued Date : Jul. 15, 2013 **Project No.** : 1306C238

Equipment: Simple Audio Listen

Model Name: SH-S0001

Applicant: Corsair Memory, Inc.

Address : 46221 Landing Parkway Fremont

California 94538 United States

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Jun. 27, 2013

Date of Test: Jun. 27, 2013 ~ Jul. 12, 2013

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Declaration

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1. CERTIFICATION

Equipment : Simple Audio Listen

Brand Name : Simple audio

Model Name: SH-S0001

Applicant : Corsair Memory, Inc. Manufacturer : Corsair Memory, Inc.

Address : 46221 Landing Parkway Fremont California 94538 United States

Factory : Shenzhen Synchron Electronics Co., Ltd.

Address : No. 9 Mei Li Road, Xia Mei Lin, Fu Tian Area, Shenzhen, Guangdong, China

Date of Test : Jun. 27, 2013 ~ Jul. 12, 2013 Test Item : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4 : 2009

FCC Public Notice DA 00-705, March 30, 2000.

Canada RSS-210:2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1306C238) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

APPLIED STANDARD: 47 CFR Part 15, Subpart C; Canada RSS-210:2010				
Standard(s) Section				
RSS-210	47 CFR Part 15	Test Item	Judgment	Remark
RSS-GEN 7.2.2	15.207	Conducted Emission	PASS	
RSS-210 Annex 8 (A8.1d)	15.247(d)	Antenna conducted Spurious Emission	PASS	
RSS-210 Annex 8 (A8.1d)	15.247 (a)(1)	Hopping Channel Separation	PASS	
RSS-210 Annex 8 (A8.1b)	15.247 (b)(1)	Peak Output Power	PASS	
RSS-210 Annex 8 (A8.1a)	15.247(d) 15.209	Radiated Spurious Emission	PASS	
RSS-210 Annex 8 (A8.4(2))	15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
RSS-210 Annex 8 (A8.5)	15.247 (a)(1)(iii)	Dwell Time	PASS	
RSS-Gen 7.2.3	15.205	Restricted Bands	PASS	
RSS-210 Annex 8 (A8.5)	15.203	Antenna Requirement	PASS	

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) According to FCC Public Notice DA 00-705, March 30, 2000.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC 319330 Neutron's test firm number for IC 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISPR	200MHz ~ 1,000MHz	Н	3.94	
DG-CB03 CISPR	CISER	1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Simple Audio Listen		
Brand Name	s simple audio		
Model Name	SH-S0001		
Model Difference	N/A		
Product Description	Operation Frequency Modulation Technology Bit Rate of Transmitter Number of Channel Antenna Designation Antenna Gain(Peak) Output Power More details of EUT tech	2402~2480 MHz GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps) 79 CH, Please see note 2.(Page 9) Please see note 3.(Page 9) 3.52 dBm (1Mbps) 0.98 dBm (3Mbps)	
Power Source	DC Voltage supplied from AC/DC adapter. Model/Brand: AS600-200-AA250/S simple audio		
Power Rating	I/P: AC 100-240V~ 50/60Hz 1.5A O/P: DC 20.0V 2.5A		
Connecting I/O Port(s)	Please refer to the User'	s Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.

	Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
00	2402	27	2429	54	2456	
01	2403	28	2430	55	2457	
02	2404	29	2431	56	2458	
03	2405	30	2432	57	2459	
04	2406	31	2433	58	2460	
05	2407	32	2434	59	2461	
06	2408	33	2435	60	2462	
07	2409	34	2436	61	2463	
08	2410	35	2437	62	2464	
09	2411	36	2438	63	2465	
10	2412	37	2439	64	2466	
11	2413	38	2440	65	2467	
12	2414	39	2441	66	2468	
13	2415	40	2442	67	2469	
14	2416	41	2443	68	2470	
15	2417	42	2444	69	2471	
16	2418	43	2445	70	2472	
17	2419	44	2446	71	2473	
18	2420	45	2447	72	2474	
19	2421	46	2448	73	2475	
20	2422	47	2449	74	2476	
21	2423	48	2450	75	2477	
22	2424	49	2451	76	2478	
23	2425	50	2452	77	2479	
24	2426	51	2453	78	2480	
25	2427	52	2454			
26	2428	53	2455			

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	-1.72

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	Bluetooth

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Emission		
Final Test Mode	Description	
Mode 2	Bluetooth	

For Radiated Emission			
Final Test Mode Description			
Mode 1	TX Mode NOTE (1)		

Note:

(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

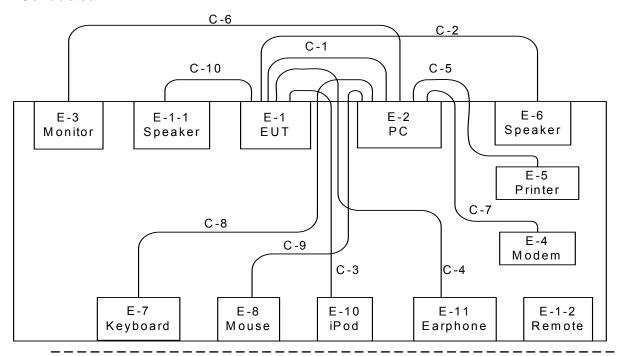
Test software version	Bluetooth			
Frequency	2402 MHz 2441 MHz 2480 MHz			
Parameters-1Mbps	48	48	48	
Parameters-3Mbps	48	48	48	

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3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted:



Control room

E-9 IPHONE

C-1 USB Cable

C-2 Audio Cable C-3 Aux in Cable

C-4 Earphone Cable

C-5 Parallel Cable

C-6 D-Sub Cable

C-7 RS232 Cable

C-8 USB Cable

C-9 USB Cable

C-10 Speaker out Cable

Radiated:

E - 1 EUT

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3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1 E-1-1 E-1-2	Simple Audio Listen	s sımple audıo	SH-S0001	DOC	N/A	EUT
E-2	PC	Dell 745	DCSM	DOC	G7K832X	
E-3	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-641 80-6AG-1WNS	
E-4	Modem	ACEEX	DM-1414V	IFAXDM141 4	0603002131	
E-5	Printer	SII	DPU-414	DOC	3018507 B	
E-6	SPEAKER	N/A	MS20	VER	S1105384274	
E-7	USB Keyboard	Dell	L100	DOC	CNORH659658 9071T08NE	
E-8	USB Mouse	Dell	MO56UOA	DOC	FQJ000BS	
E-9	IPHONE	Apple	A1241	DOC	BCGA1241	
E-10	iPod nano(8G)	Apple	A1320	DOC	YM945ZGJ72A	
E-11	Earphone	Apple	N/A	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.8m	
C-2	NO	NO	2m	
C-3	NO	NO	1m	
C-4	NO	NO	1.8m	
C-5	NO	NO	1.9m	
C-6	YES	YES	1.8m	
C-7	YES	NO	2m	
C-8	YES	NO	1.6m	
C-9	NO	NO	1.6m	
C-10	NO	NO	1.2m	

Note:

(1) For detachable type I/O cable should be specified the length in m in <code>『Length』</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	Standard	
PREQUENCY (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014
2	LISN	R&S	ENV216	100087	Nov.16.2013
3	Test Cable	N/A	C_17	N/A	Mar.15.2014
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		

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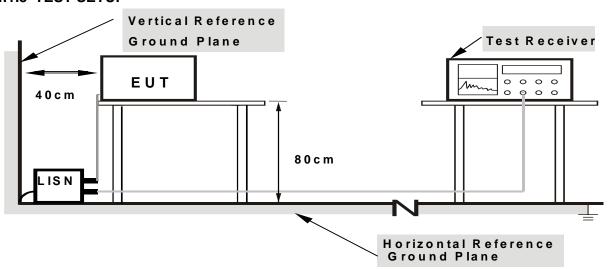
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT is continuously transmitting and receiving data or hopping on mode.

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4.1.7 TEST RESULTS

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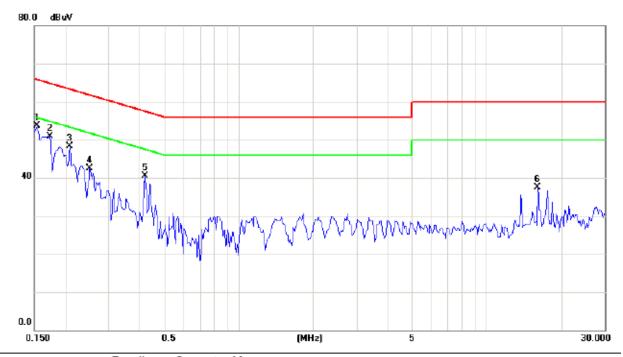
(1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

	((2)) Measuring [·]	frequency	/ range from	150KHz to 30MH
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EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	24 ℃	Relative Humidity:	53 %
Test Power:	AC 120V/60Hz	Phase:	Line
Test Mode:	Bluetooth		

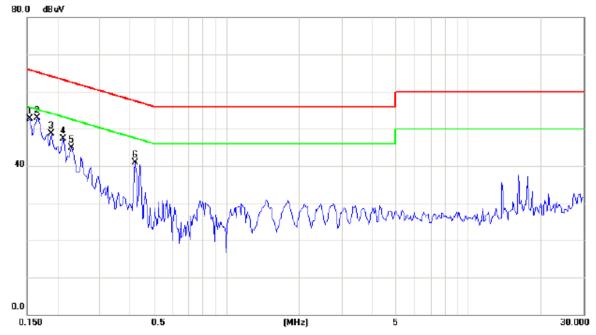


	dBuV dB Detector Comment
1 * 0.1540 44.01 9.63 53.64 6	05.70 40.44
	65.78 -12.14 peak
2 0.1734 41.24 9.63 50.87 6	64.80 -13.93 peak
3 0.2086 38.72 9.65 48.37 6	63.26 -14.89 peak
4 0.2516 32.92 9.66 42.58 6	61.70 -19.12 peak
5 0.4195 30.80 9.68 40.48 5	57.46 -16.98 peak
6 16.1211 27.26 10.32 37.58 6	

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EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	24 ℃	Relative Humidity:	53 %
Test Power: AC 120V/60Hz		Phase:	Neutral
Test Mode:	Bluetooth		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBu∀	dB	dBu∨	dBu∀	dB	Detector	Comment	
1	0.1540	42.97	9.70	52.67	65.78	-13.11	peak		
2 *	0.1655	43.15	9.70	52.85	65.18	-12.33	peak		
3	0.1891	38.94	9.71	48.65	64.08	-15.43	peak		
4	0.2125	37.52	9.71	47.23	63.11	-15.88	peak		
5	0.2281	35.16	9.71	44.87	62.52	-17.65	peak		
6	0.4195	31.26	9.73	40.99	57.46	-16.47	peak		

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
TIVEQUENCT (MITZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jun.30.2014
5	Antenna	ETS	3115	00075789	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov. 16.2013
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014
9	Controller	СТ	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.12.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting			
Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB (emission in restricted	1 MHz / 1 MHz for Dock 1 MHz / 10Hz for Average			
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average			

Receiver Parameter	Setting				
Attenuation	Auto				
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector				
Start ~ Stop Frequency	90kHz~110kHz for QP detector				
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector				
Start ~ Stop Frequency	490kHz~30MHz for QP detector				
Start ~ Stop Frequency	30MHz~1000MHz for QP detector				

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4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 C		1 11011	1 -01	OIAII	

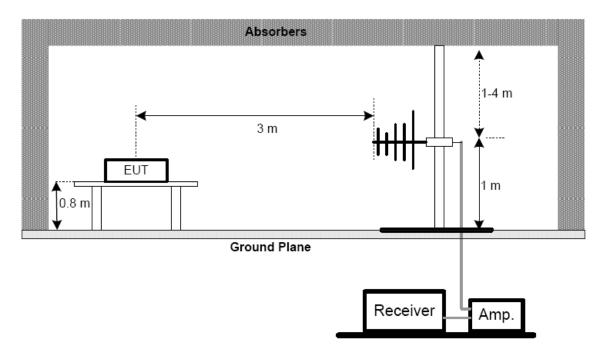
No deviation

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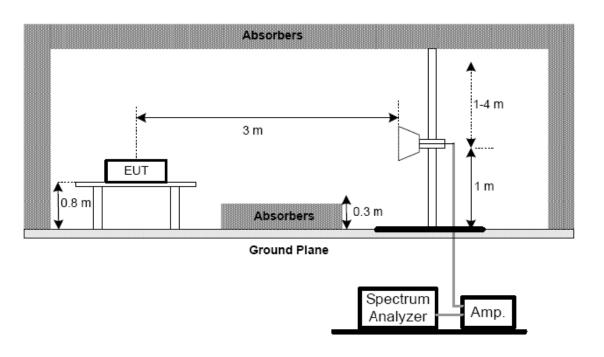


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



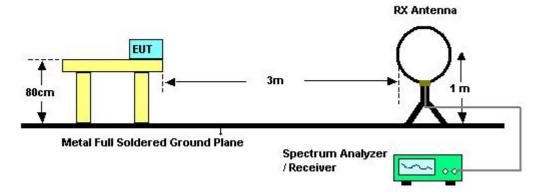
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



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(C) For radiated emissions below 30MHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	26 ℃	Relative Humidity:	53 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 2402MHz -CH00-1Mbps		

Гиол	٨٠٠٠	Deeding/DA)	Com Footon(CF)	Magazinad/EC)	Line ita (OD)	Marain	
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.01	0°	26.58	24.30	50.88	127.74	-76.86	AVG
0.01	0°	29.63	24.30	53.93	147.74	-93.81	PK
0.02	0°	22.04	23.99	46.03	119.71	-73.67	AVG
0.02	0°	25.43	23.99	49.42	139.71	-90.28	PK
0.04	0°	20.04	23.06	43.10	115.65	-72.55	AVG
0.04	0°	22.71	23.06	45.77	135.65	-89.88	PK
0.05	0°	19.58	22.35	41.93	113.22	-71.29	AVG
0.05	0°	22.57	22.35	44.92	133.22	-88.30	PK
0.28	0°	24.16	20.32	44.48	98.53	-54.05	AVG
0.28	0°	27.05	20.32	47.37	118.53	-71.16	PK
1.76	0°	28.51	19.52	48.03	69.54	-21.51	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
0.01	90°	20.34	24.30	44.64	127.96	-83.32	AVG
0.01	90°	22.95	24.30	47.25	147.96	-100.71	PK
0.03	90°	16.75	23.76	40.51	118.51	-78.00	AVG
0.03	90°	19.43	23.76	43.19	138.51	-95.32	PK
0.05	90°	20.14	22.70	42.84	114.50	-71.66	AVG
0.05	90°	22.87	22.70	45.57	134.50	-88.93	PK
0.07	90°	23.46	21.91	45.37	110.19	-64.81	AVG
0.07	90°	26.75	21.91	48.66	130.19	-81.52	PK
0.37	90°	21.07	20.12	41.19	96.29	-55.10	AVG
0.37	90°	24.96	20.12	45.08	116.29	-71.21	PK
1.36	90°	25.19	19.56	44.75	64.95	-20.20	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);.
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor..

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4.2.8 TEST RESULTS (BETWEEN30 - 1000 MHZ)

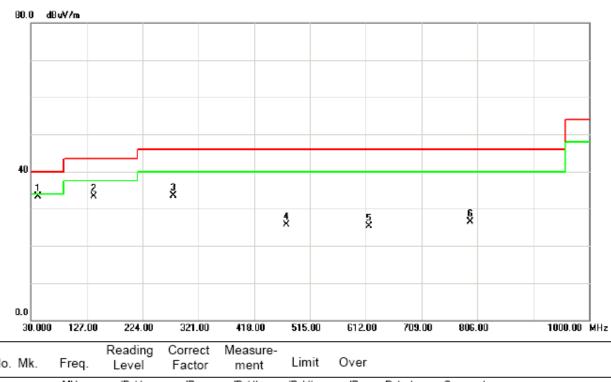
Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX 2402MHz -CH00-1Mbps		



	No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
•			MHz	dBu∀	dB	dBu∀/m	dBuV/m	dB	Detector	Comment	
	1	*	41.6400	50.05	-16.77	33.28	40.00	-6.72	peak		
	2	1	138.6400	51.33	-18.04	33.29	43.50	-10.21	peak		
	3	2	277.3500	46.86	-13.34	33.52	46.00	-12.48	peak		
	4	4	174.2600	34.42	-8.70	25.72	46.00	-20.28	peak		
	5	6	317.8200	30.52	-5.20	25.32	46.00	-20.68	peak		
-	6	7	793.3900	30.27	-3.70	26.57	46.00	-19.43	peak		
-											

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5

6

474.2600

711.9100

42.89

30.21

-8.70

-4.55

34.19

25.66

46.00

46.00

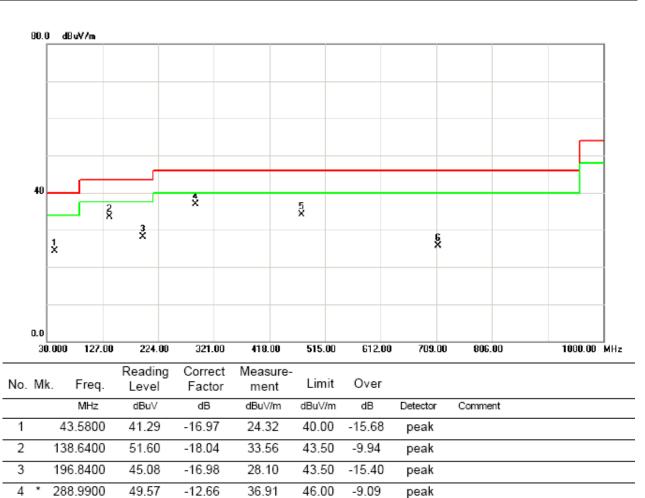
-11.81

-20.34

peak

peak

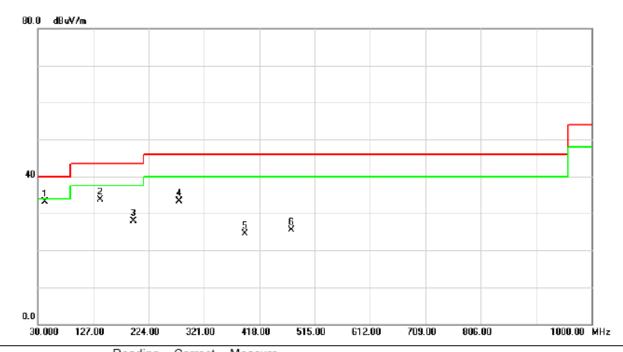
EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2402MHz –CH00-1Mbps		



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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX 2441MHz –CH39-1Mbps		

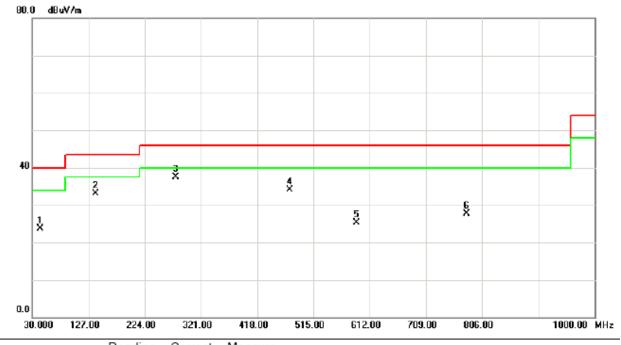


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment
	1	*	42.6100	50.00	-16.83	33.17	40.00	-6.83	peak	
	2	,	138.6400	51.69	-18.04	33.65	43.50	-9.85	peak	
-	3	,	196.8400	44.89	-16.98	27.91	43.50	-15.59	peak	
-	4	- 7	277.3500	46.74	-13.34	33.40	46.00	-12.60	peak	
-	5	;	392.7800	34.54	-10.06	24.48	46.00	-21.52	peak	
_	6	4	174.2600	34.15	-8.70	25.45	46.00	-20.55	peak	
_										

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2441MHz –CH39-1Mbps		

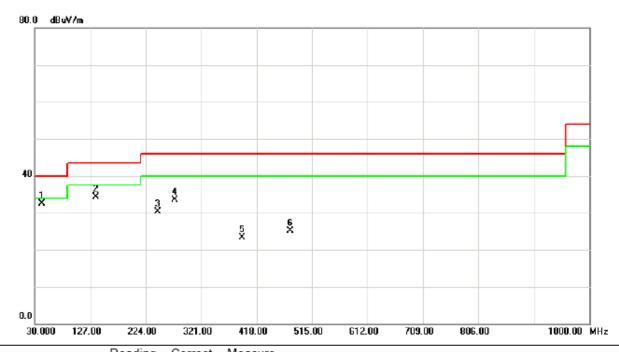


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀/m	dBu∀/m	dB	Detector	Comment
1		43.5800	40.77	-16.97	23.80	40.00	-16.20	peak	
2		138.6400	51.08	-18.04	33.04	43.50	-10.46	peak	
3	*	277.3500	50.79	-13.34	37.45	46.00	-8.55	peak	
4		474.2600	42.71	-8.70	34.01	46.00	-11.99	peak	
5		589.6900	31.00	-5.72	25.28	46.00	-20.72	peak	
6		778.8400	31.60	-3.89	27.71	46.00	-18.29	peak	

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX 2480MHz –CH78-1Mbps		

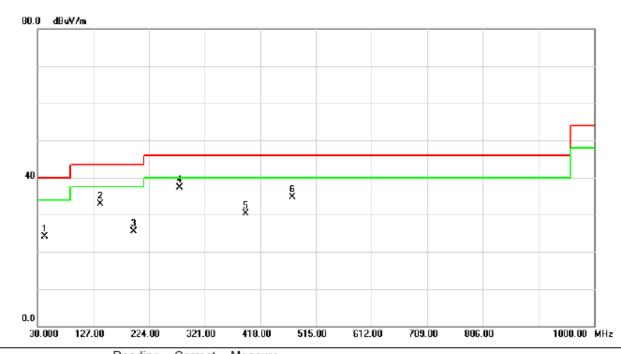


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment
1	*	41.6400	49.18	-16.77	32.41	40.00	-7.59	peak	
2	,	136.7000	52.38	-18.12	34.26	43.50	-9.24	peak	
3	2	245.3400	45.70	-15.34	30.36	46.00	-15.64	peak	
4	2	274.4400	47.02	-13.52	33.50	46.00	-12.50	peak	
5	3	392.7800	33.29	-10.06	23.23	46.00	-22.77	peak	
6	4	477.1700	33.87	-8.67	25.20	46.00	-20.80	peak	

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2480MHz -CH78-1Mbps		

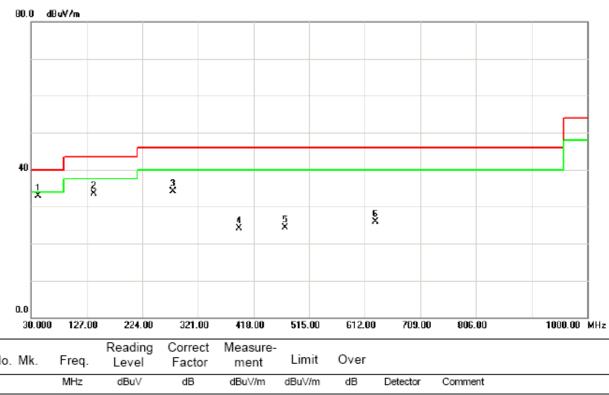


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment	
	1		42.6100	40.87	-16.83	24.04	40.00	-15.96	peak		
_	2	1	138.6400	51.03	-18.04	32.99	43.50	-10.51	peak		
_	3	1	196.8400	42.55	-16.98	25.57	43.50	-17.93	peak		
_	4	* 2	277.3500	50.61	-13.34	37.27	46.00	-8.73	peak		
_	5	3	392.7800	40.32	-10.06	30.26	46.00	-15.74	peak		
-	6	4	174.2600	43.48	-8.70	34.78	46.00	-11.22	peak		
-											

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX 2402MHz –CH00-3Mbps		



	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			
			MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment	
	1	*	42.6100	49.67	-16.83	32.84	40.00	-7.16	peak		
_	2	,	138.6400	51.61	-18.04	33.57	43.50	-9.93	peak		
_	3	- 2	277.3500	47.36	-13.34	34.02	46.00	-11.98	peak		
_	4	3	392.7800	34.21	-10.06	24.15	46.00	-21.85	peak		
_	5	4	172.3200	33.09	-8.73	24.36	46.00	-21.64	peak		
_	6	(30.4300	30.85	-4.98	25.87	46.00	-20.13	peak		
_											

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2402MHz –CH00-3Mbps		



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBu∀	dB	dBu∀/m	dBu∀/m	dB	Detector	Comment	
1		44.5500	41.47	-17.08	24.39	40.00	-15.61	peak		
2	,	138.6400	50.78	-18.04	32.74	43.50	-10.76	peak		
3	* 2	277.3500	50.90	-13.34	37.56	46.00	-8.44	peak		
4	4	121.8800	40.36	-9.46	30.90	46.00	-15.10	peak		
5	4	174.2600	41.75	-8.70	33.05	46.00	-12.95	peak		
6	(646.9200	30.45	-4.74	25.71	46.00	-20.29	peak		

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX 2441MHz –CH39-3Mbps		



No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment	
1	*	41.6400	50.43	-16.77	33.66	40.00	-6.34	peak		
2	,	138.6400	51.36	-18.04	33.32	43.50	-10.18	peak		
3		277.3500	47.52	-13.34	34.18	46.00	-11.82	peak		
4	;	392.7800	34.31	-10.06	24.25	46.00	-21.75	peak		
5	4	477.1700	34.29	-8.67	25.62	46.00	-20.38	peak		
6	(669.2300	29.95	-4.67	25.28	46.00	-20.72	peak		

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2441MHz –CH39-3Mbps		

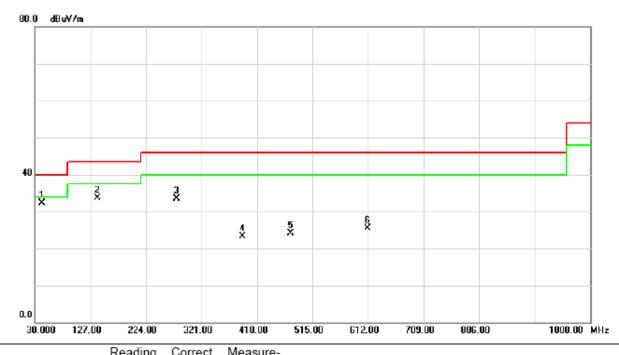


No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment	
1		43.5800	41.75	-16.97	24.78	40.00	-15.22	peak		
2		138.6400	51.14	-18.04	33.10	43.50	-10.40	peak		
3	* :	279.2900	50.73	-13.21	37.52	46.00	-8.48	peak		
4	;	392.7800	42.70	-10.06	32.64	46.00	-13.36	peak		
5	-	477.1700	42.39	-8.67	33.72	46.00	-12.28	peak		
6		655.6500	30.97	-4.68	26.29	46.00	-19.71	peak		

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	TX 2480MHz –CH78-3Mbps		

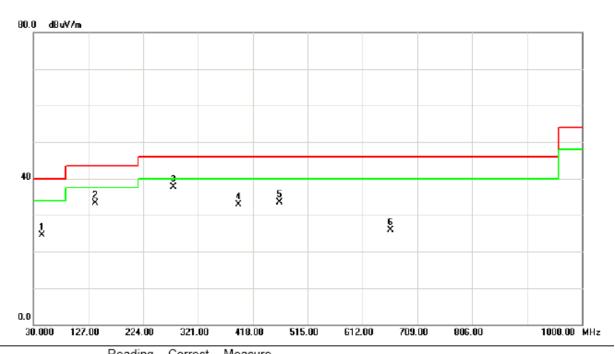


No.	Mk	. Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBu∀	dB	dBu∀/m	dBu∀/m	dB	Detector	Comment	
1	*	41.6400	49.05	-16.77	32.28	40.00	-7.72	peak		
2		138.6400	51.66	-18.04	33.62	43.50	-9.88	peak		
3		277.3500	46.90	-13.34	33.56	46.00	-12.44	peak		
4		392.7800	33.42	-10.06	23.36	46.00	-22.64	peak		
5		477.1700	32.81	-8.67	24.14	46.00	-21.86	peak		
6		611.0300	30.77	-5.31	25.46	46.00	-20.54	peak		

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EUT:	Simple Audio Listen	Model Name:	SH-S0001
Temperature:	25 ℃	Relative Humidity:	60 %
Test Power:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2480MHz –CH78-3Mbps		



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBu∀	dB	dBu∀/m	dBu\//m	dB	Detector	Comment	
1		44.5500	41.62	-17.08	24.54	40.00	-15.46	peak		
2	1	138.6400	51.33	-18.04	33.29	43.50	-10.21	peak		
3	* 2	277.3500	51.01	-13.34	37.67	46.00	-8.33	peak		
4	3	392.7800	42.90	-10.06	32.84	46.00	-13.16	peak		
5	4	165.5300	42.39	-8.81	33.58	46.00	-12.42	peak		
6	6	61.4700	30.52	-4.68	25.84	46.00	-20.16	peak		

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4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

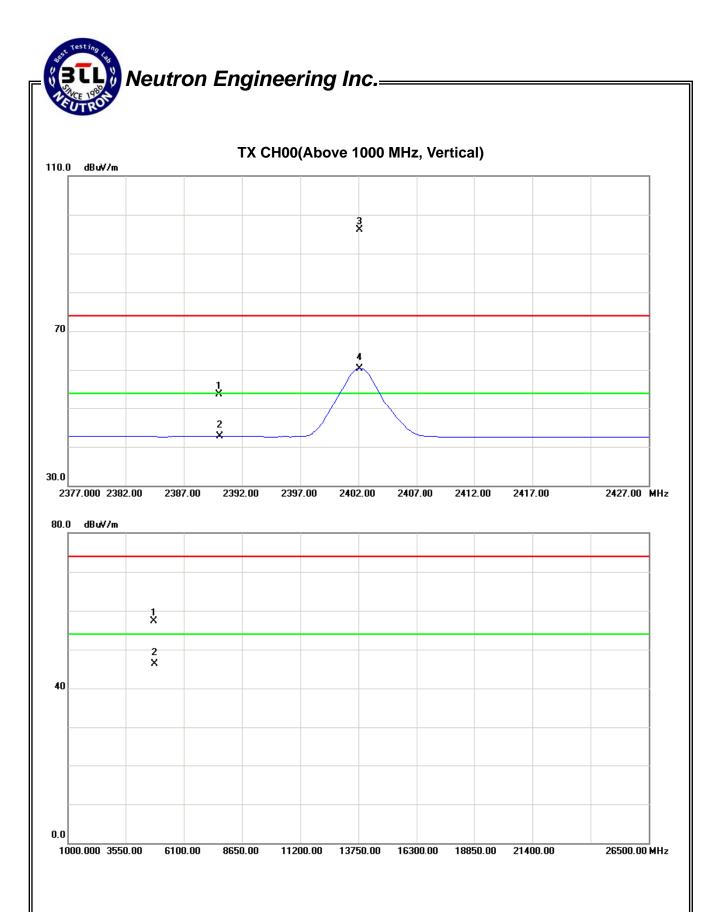
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freg. Ant.Pol.		Reading		Ant./CF	A	Act.		mit	
rieq.	AIILF OI.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.49	10.34	32.28	53.77	42.62	74.00	54.00	X/E
2402.13	٧	63.85	28.13	32.27	96.12	60.40			X/F
4804.02	V	51.16	40.14	6.11	57.27	46.25	74.00	54.00	X/H

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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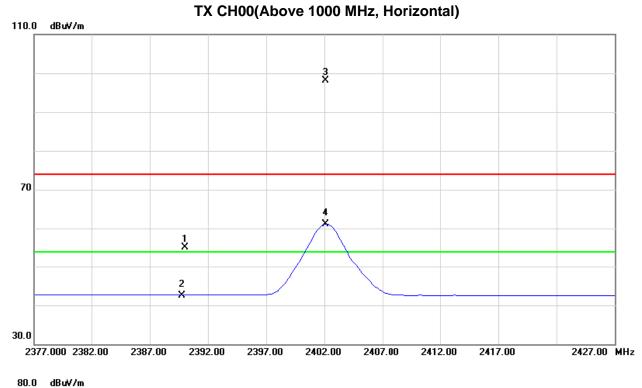
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

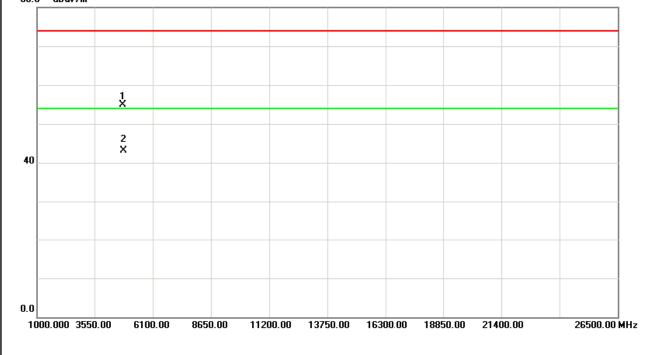
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	ΑV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	22.83	10.31	32.28	55.11	42.59	74.00	54.00	X/E
2402.13	Н	65.80	28.88	32.27	98.07	61.15			X/F
4804.25	Н	48.74	36.91	6.11	54.85	43.02	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.— TX CH00(Above 1000 MH





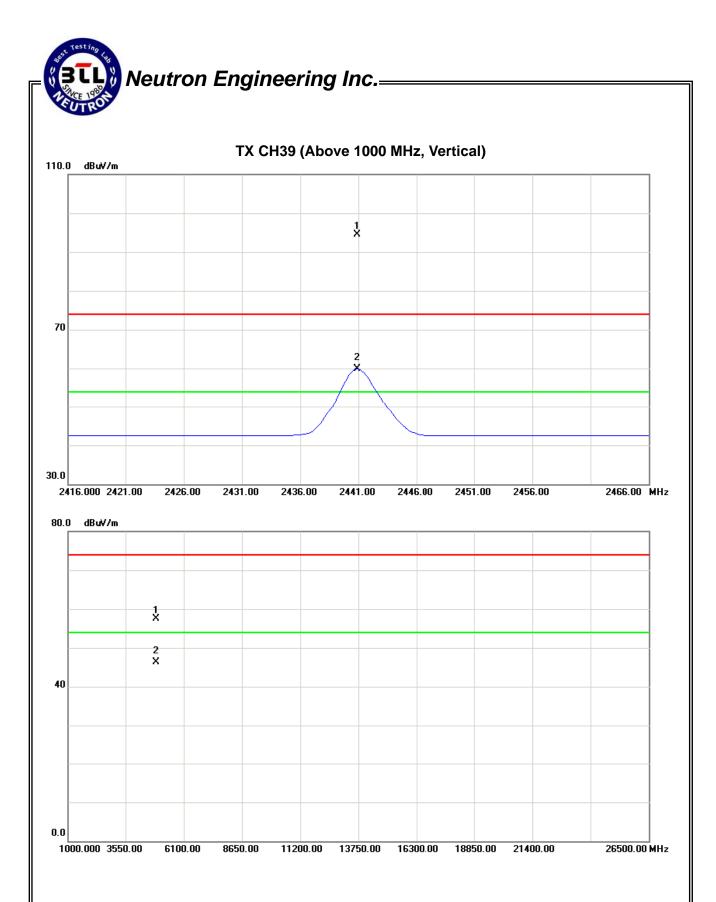
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EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.88	V	62.31	27.59	32.23	94.54	59.82			X/F
4882.04	V	51.03	39.87	6.43	57.46	46.30	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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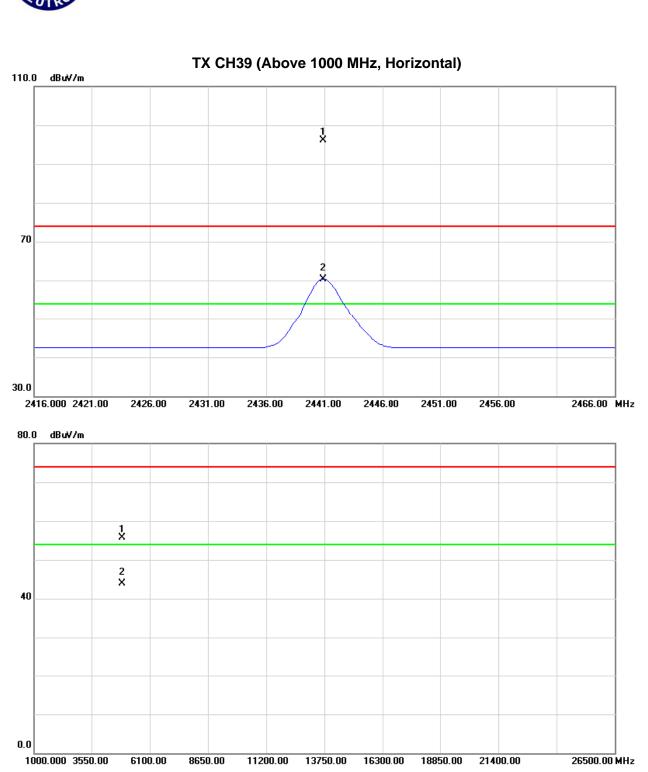
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.88	Н	63.88	28.12	32.23	96.11	60.35			X/F
4882.14	Н	49.26	37.51	6.43	55.69	43.94	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.



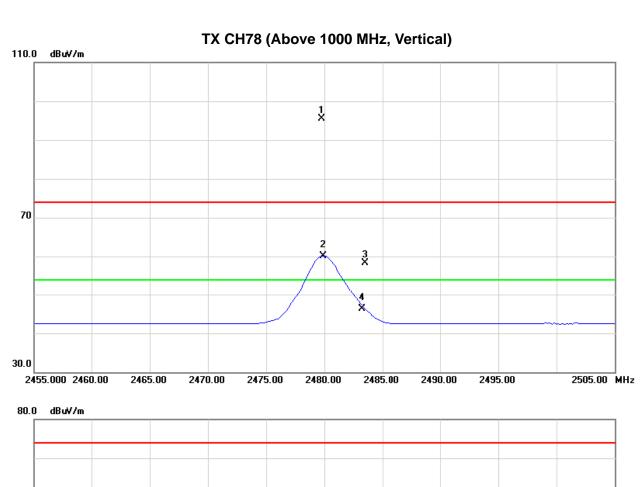
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.75	٧	63.33	27.96	32.18	95.51	60.14			X/F
2483.50	V	26.04	14.21	32.17	58.21	46.38	74.00	54.00	X/E
4960.12	V	50.68	39.46	6.74	57.42	46.20	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.— TX CH78 (Above 1000 N





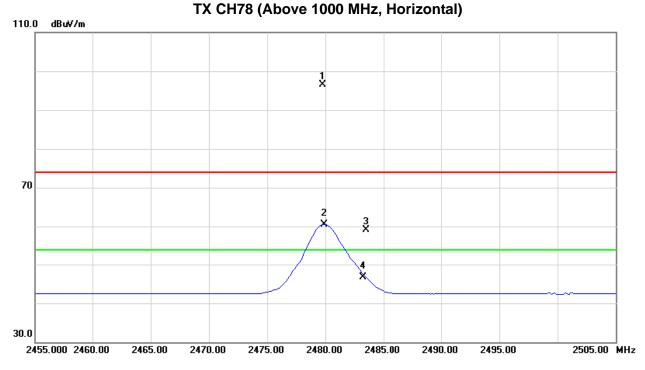
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

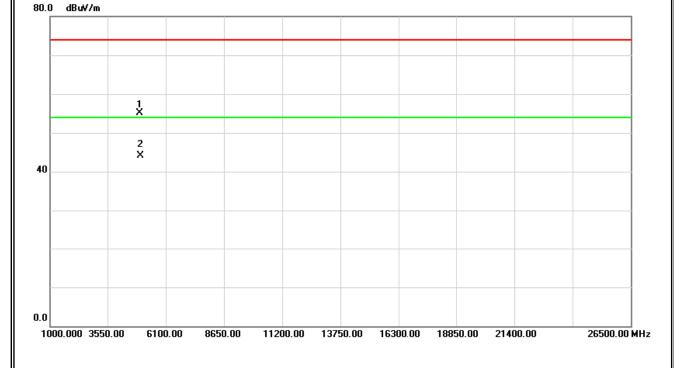
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.75	Н	64.38	28.33	32.18	96.56	60.51			X/F
2483.50	Н	26.89	14.57	32.17	59.06	46.74	74.00	54.00	X/E
4960.12	Н	48.35	37.46	6.74	55.09	44.20	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.— TX CH78 (Above 1000 MI





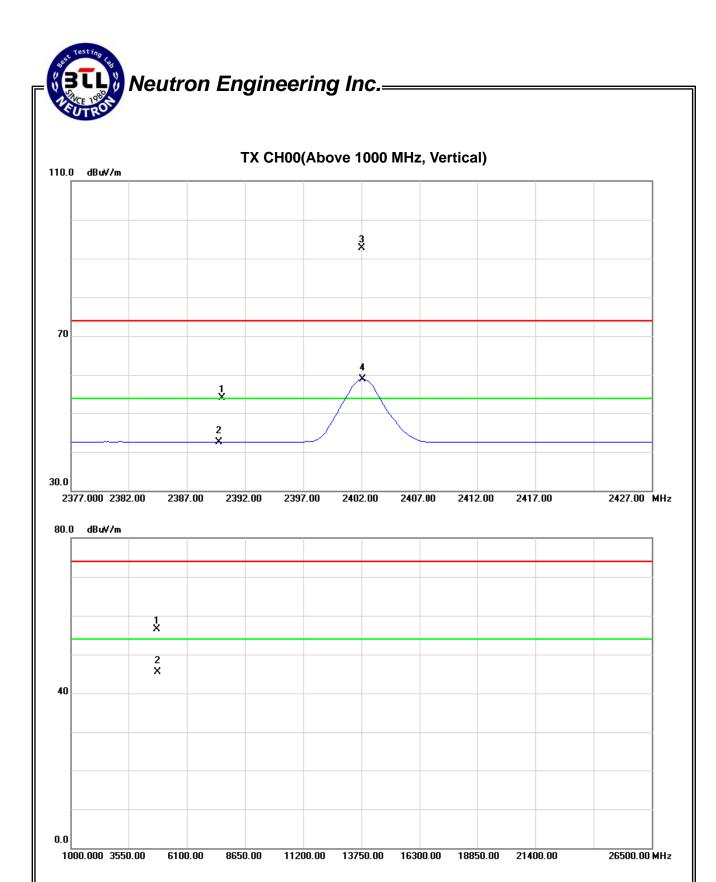
Report No.: NEI-FICP-1-1306C238

EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	CF Act.		Lir		
		Peak	ΑV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.88	10.27	32.28	54.16	42.55	74.00	54.00	X/E
2402.00	٧	60.34	26.61	32.27	92.61	58.88			X/F
4804.21	V	50.34	39.45	6.11	56.45	45.56	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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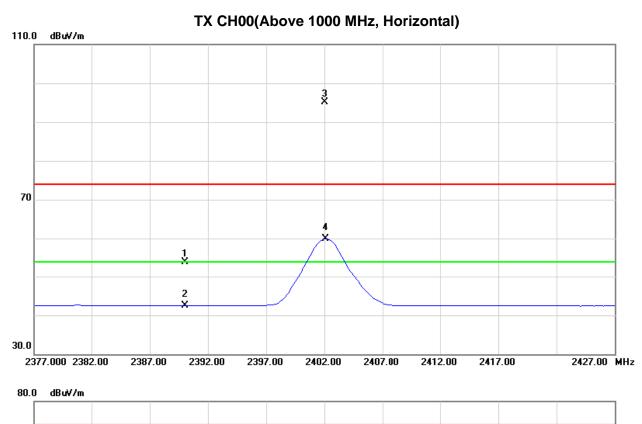
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

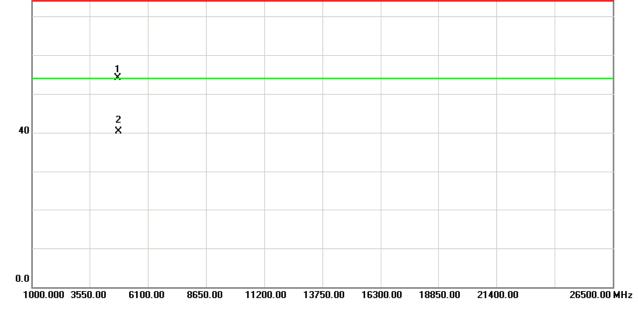
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	ΑV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	21.66	10.27	32.28	53.94	42.55	74.00	54.00	X/E
2402.00	Н	62.83	27.54	32.27	95.10	59.81			X/F
4804.04	Н	48.01	34.12	6.11	54.12	40.23	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.—



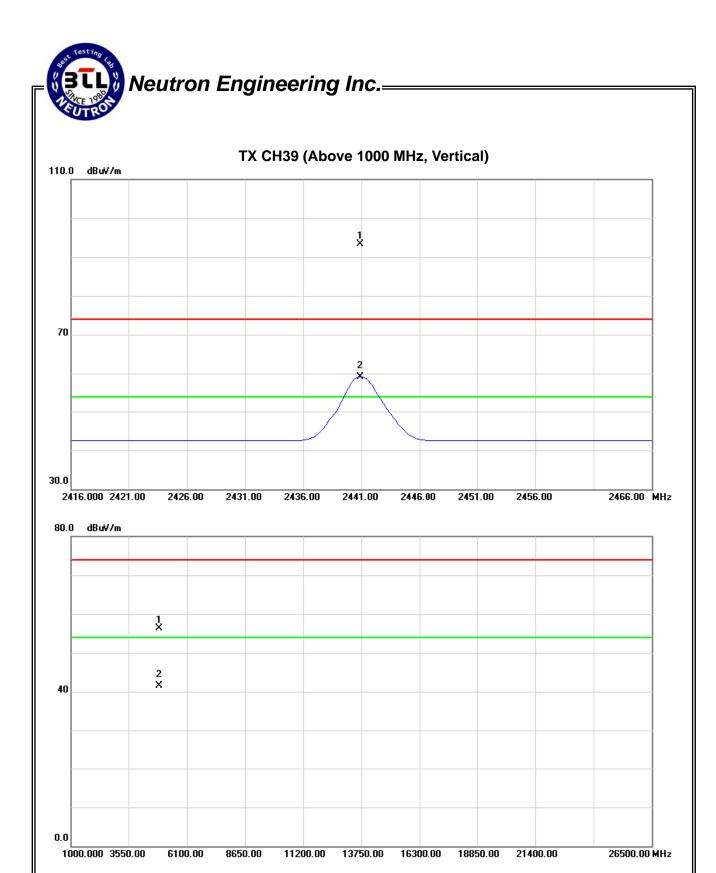


EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-3Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.88	V	60.99	26.90	32.23	93.22	59.13			X/F
4882.14	V	49.78	35.10	6.43	56.21	41.53	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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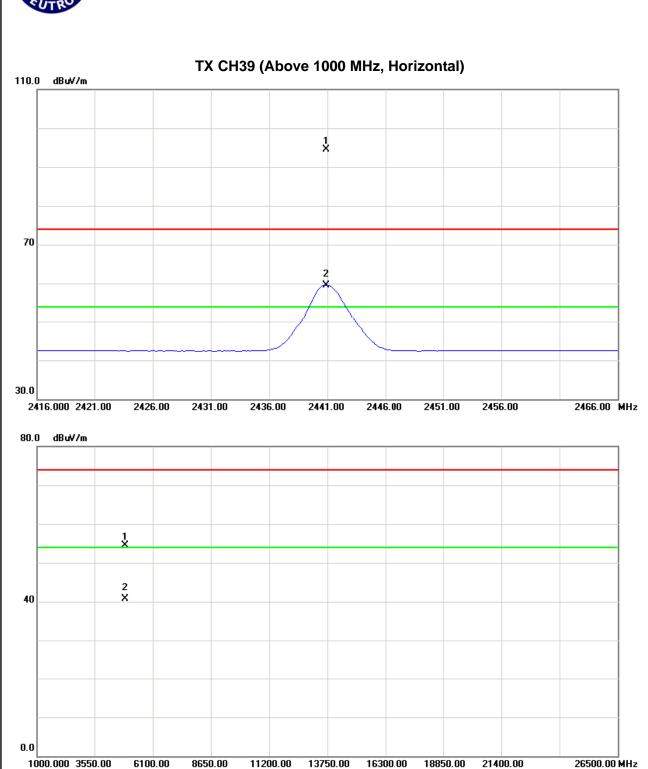
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-3Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.88	Н	62.19	27.34	32.23	94.42	59.57			X/F
4882.23	Н	47.98	34.32	6.43	54.41	40.75	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.



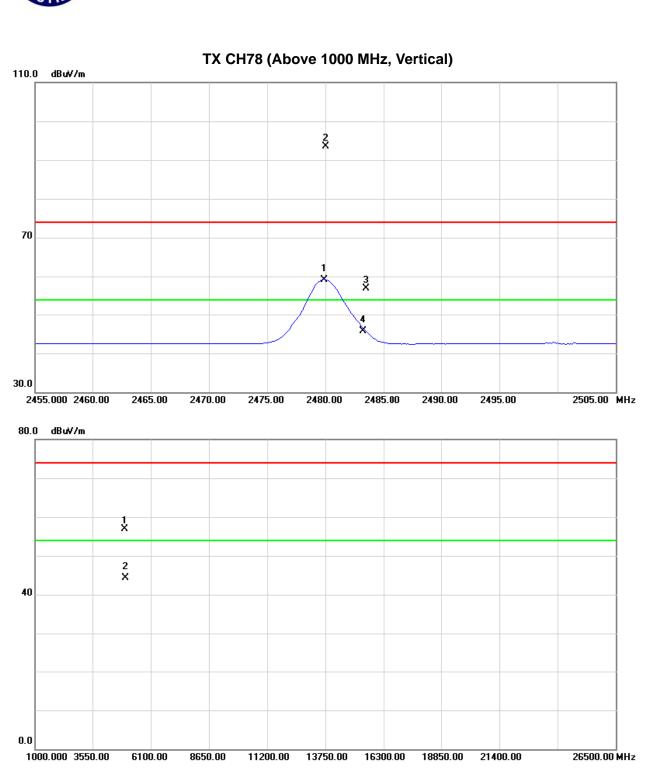
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF Act.		Lir			
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	٧	61.26	27.02	32.18	93.44	59.20			X/F
2483.50	V	24.73	13.46	32.17	56.90	45.63	74.00	54.00	X/E
4960.12	V	50.13	37.55	6.74	56.87	44.29	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.



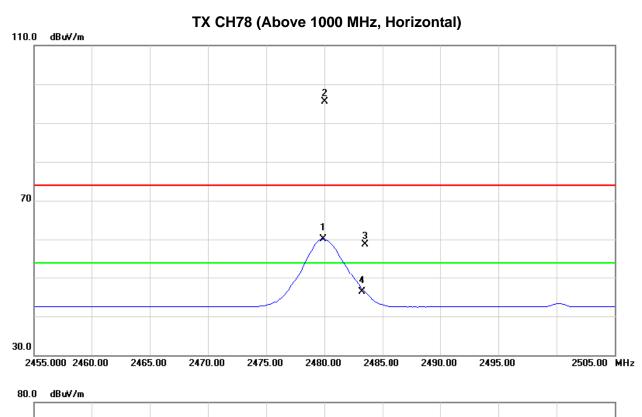
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz –CH78-3Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	Н	63.31	27.83	32.18	95.49	60.01			X/F
2483.50	Н	26.52	14.13	32.17	58.69	46.30	74.00	54.00	X/E
4959.89	Н	47.24	35.12	6.74	53.98	41.86	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Neutron Engineering Inc.— TX CH78 (Above 1000 MI





5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS	

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

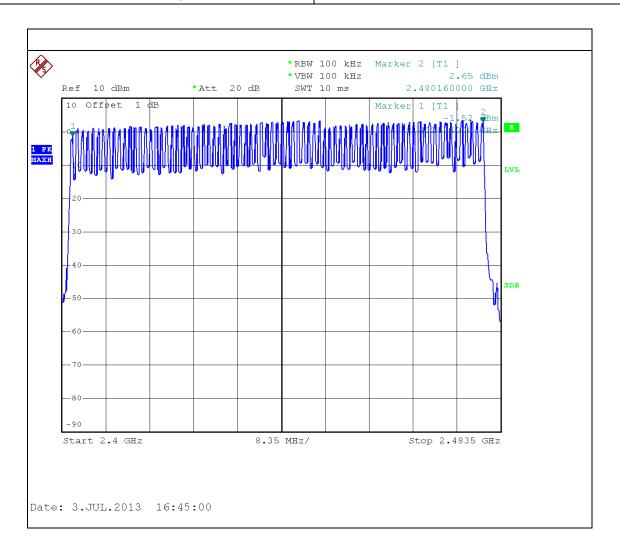
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5.1.6 TEST RESULTS

EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode -1Mbps		

Number of Hopping Channel	79

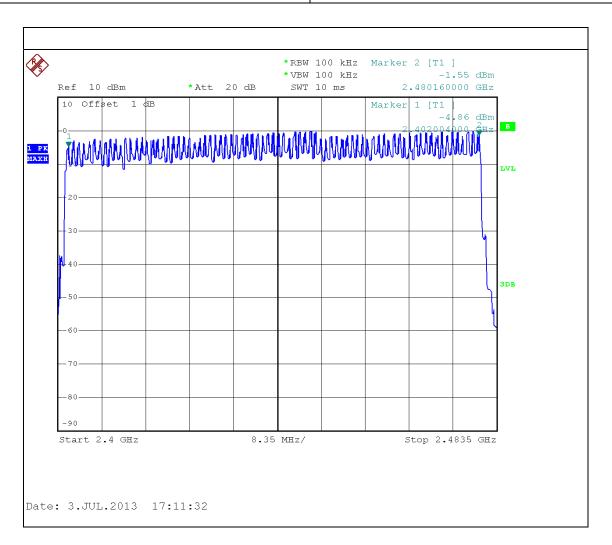


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EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode -3Mbps		

79



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6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

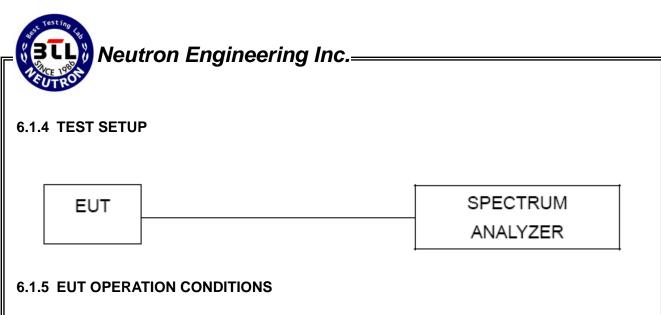
6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

No deviation.

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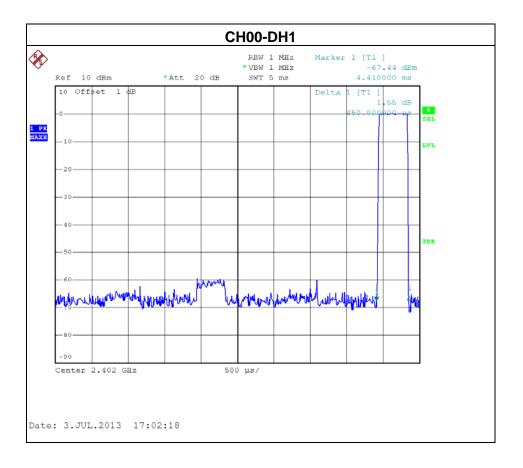
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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6.1.6 TEST RESULTS

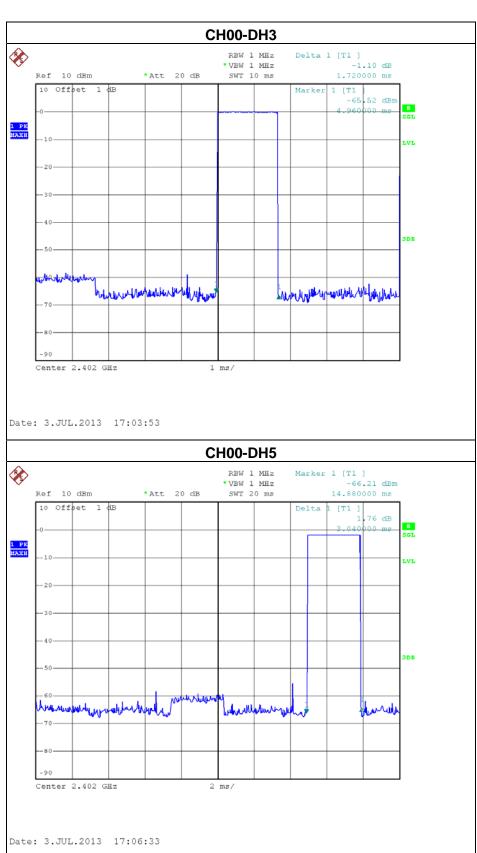
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.0400	0.3243	0.4000
DH3	2402 MHz	1.7200	0.2752	0.4000
DH1	2402 MHz	0.4500	0.1440	0.4000



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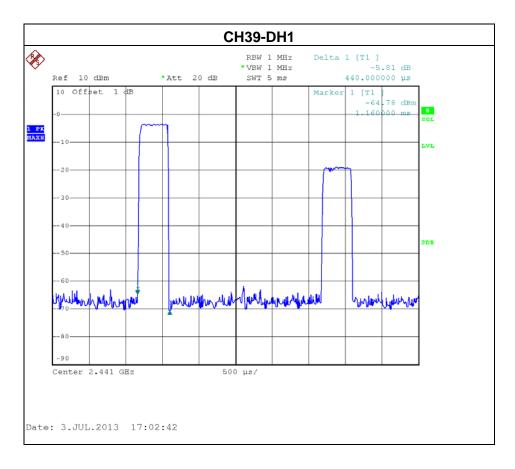
Neutron Engineering Inc.





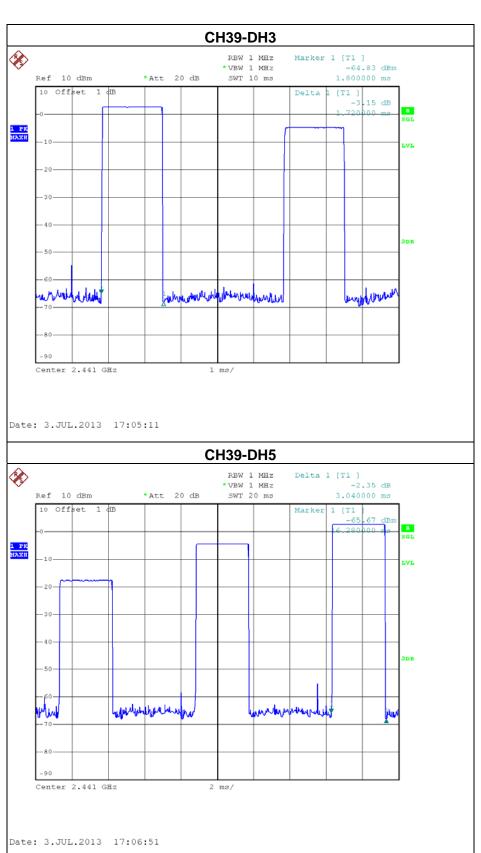
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity	/: 56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0400	0.3243	0.4000
DH3	2441 MHz	1.7200	0.2752	0.4000
DH1	2441 MHz	0.4400	0.1408	0.4000



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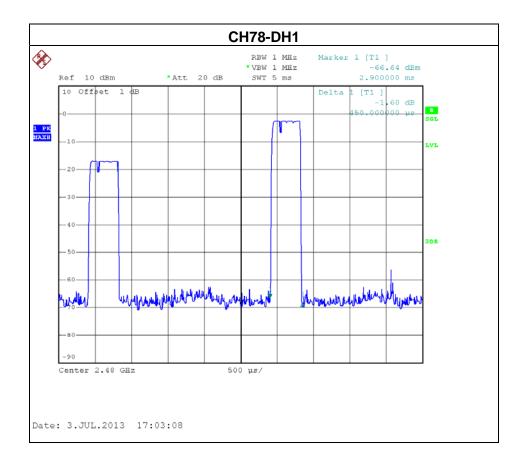
Neutron Engineering Inc.





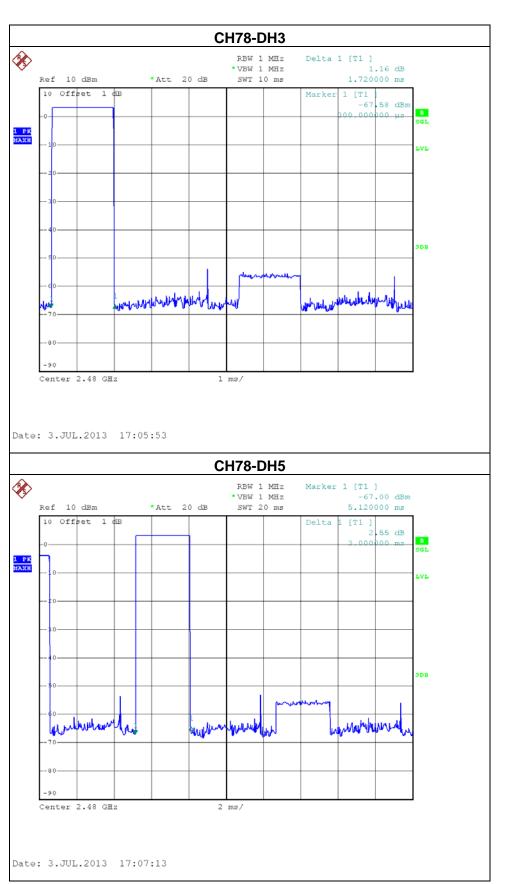
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.0000	0.3200	0.4000
DH3	2480 MHz	1.7200	0.2752	0.4000
DH1	2480 MHz	0.4500	0.1440	0.4000



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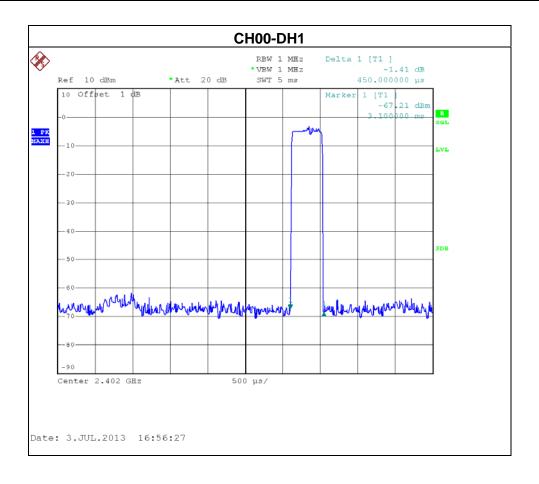
Neutron Engineering Inc.



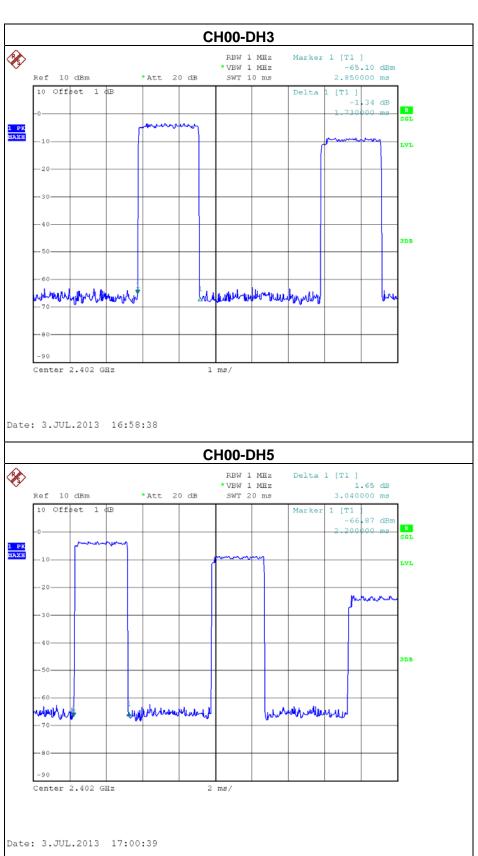


EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.0400	0.3243	0.4000
DH3	2402 MHz	1.7300	0.2768	0.4000
DH1	2402 MHz	0.4500	0.1440	0.4000



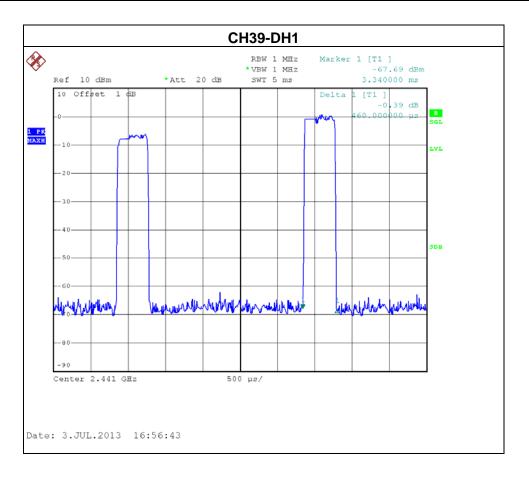
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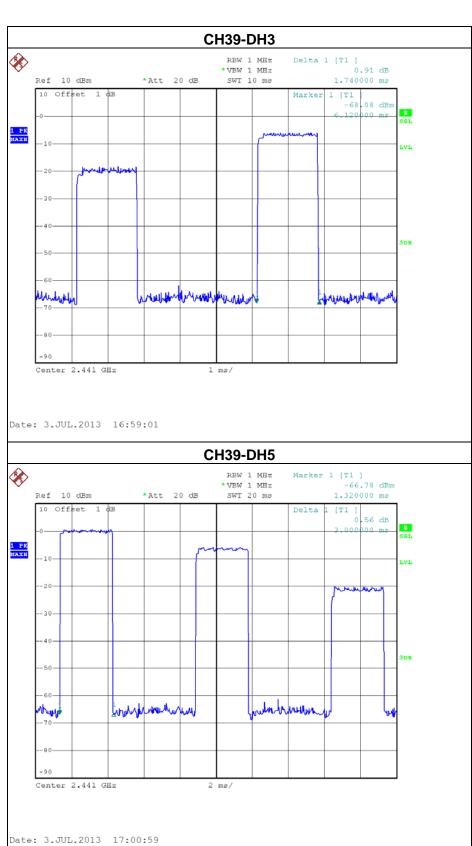


EUT:	Simple Audio Listen	Model Name :		SH-S0001
Temperature:	28 ℃	Relative Humidi	ity:	56 %
Pressure:	1009 hPa	Test Voltage :		AC 120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5 -3Mbps			

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0000	0.3200	0.4000
DH3	2441 MHz	1.7400	0.2784	0.4000
DH1	2441 MHz	0.4600	0.1472	0.4000



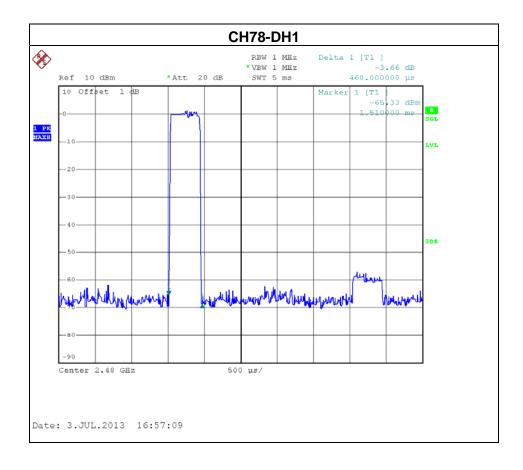
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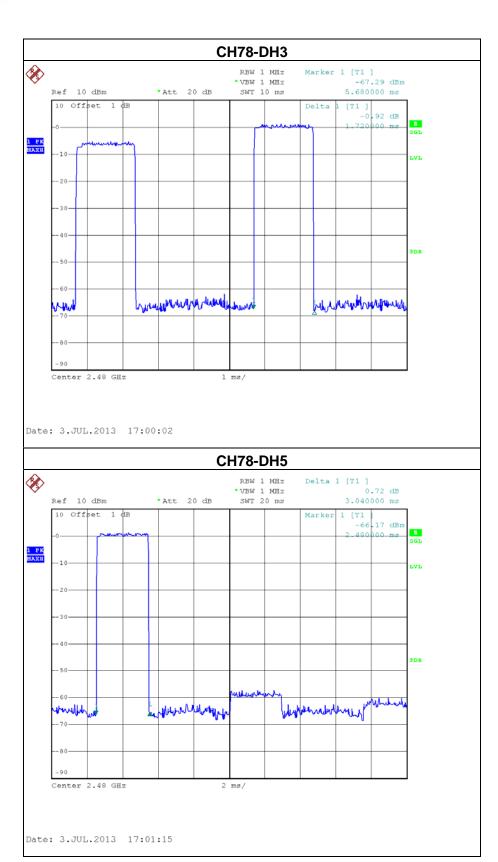


EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.0400	0.3243	0.4000
DH3	2480 MHz	1.7200	0.2752	0.4000
DH1	2480 MHz	0.4600	0.1472	0.4000



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7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Iten	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

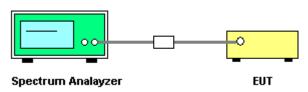
7.1.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in hopping mode.

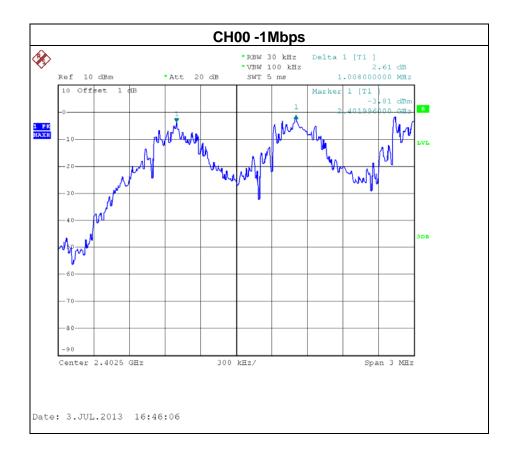
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7.1.6 TEST RESULTS

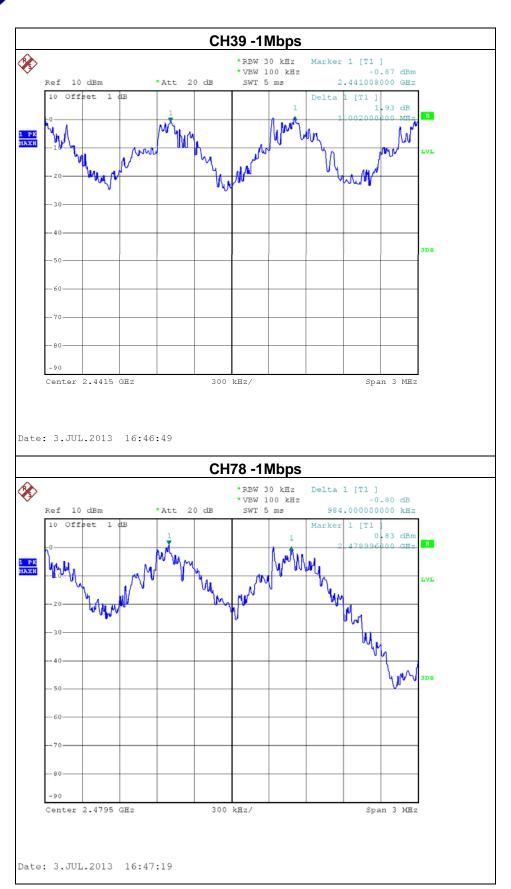
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	1.008	0.92	Complies
2441 MHz	1.002	0.88	Complies
2480 MHz	0.984	0.89	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth



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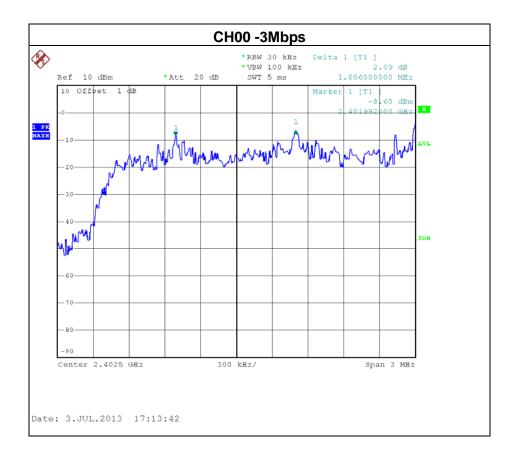




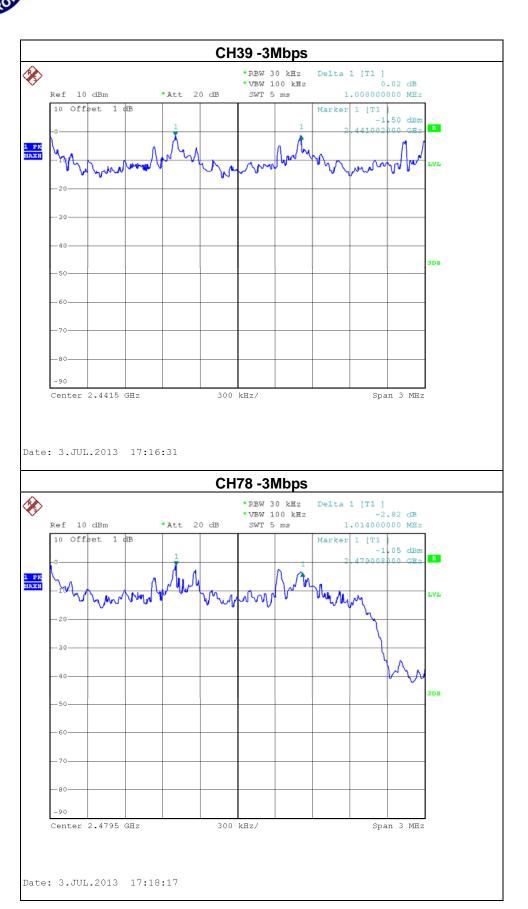
EUT:	Simple Audio Listen	Model Name :	SH-S0001	
Temperature:	20 ℃	Relative Humidity:	60 %	
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	Hopping on -CH00 / CH39 /CH78-3Mbps			

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	1.006	1.21	Complies
2441 MHz	1.008	1.21	Complies
2480 MHz	1.014	1.21	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth



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8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item Frequency Range (MHz)			
15.247 (a)(1)	Bandwidth	2400-2483.5		

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace Max Hold		
Sweep Time	Auto	

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.5 EUT OPERATION CONDITIONS

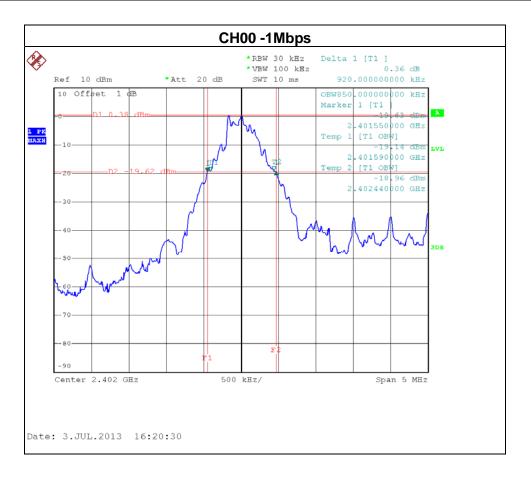
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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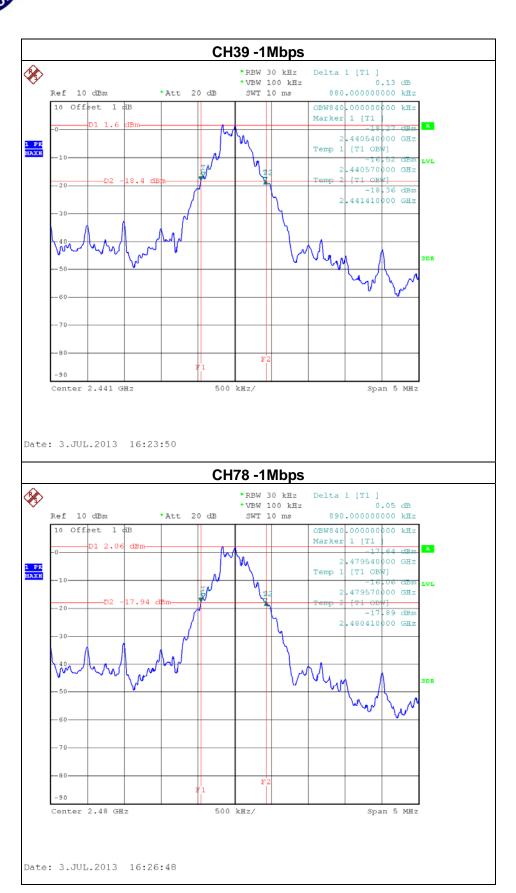
8.1.6 TEST RESULTS

EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Result
2402 MHz	0.92	0.85	PASS
2441 MHz	0.88	0.84	PASS
2480 MHz	0.89	0.84	PASS

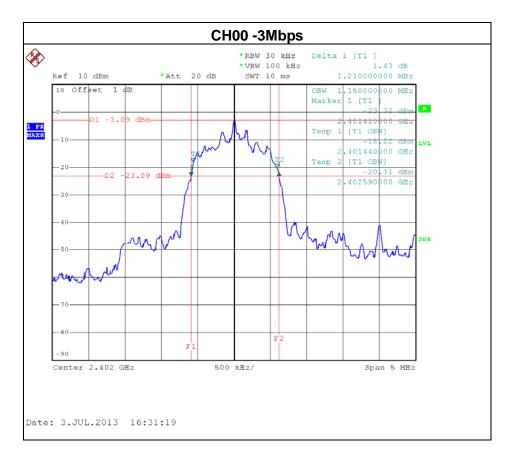


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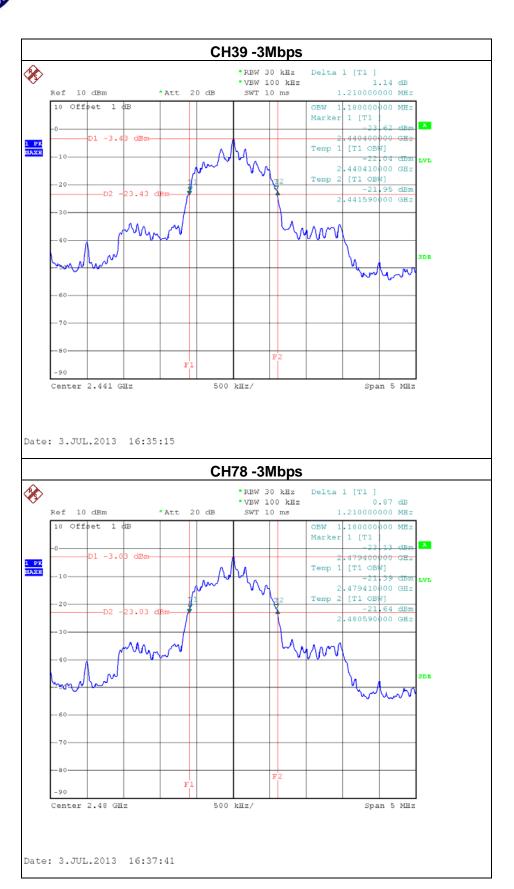


EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Result
2402 MHz	1.21	1.15	PASS
2441 MHz	1.21	1.18	PASS
2480 MHz	1.21	1.18	PASS



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9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Resul				Result		
15.247 (b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS		

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

I	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

9.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.1.5 EUT OPERATION CONDITIONS

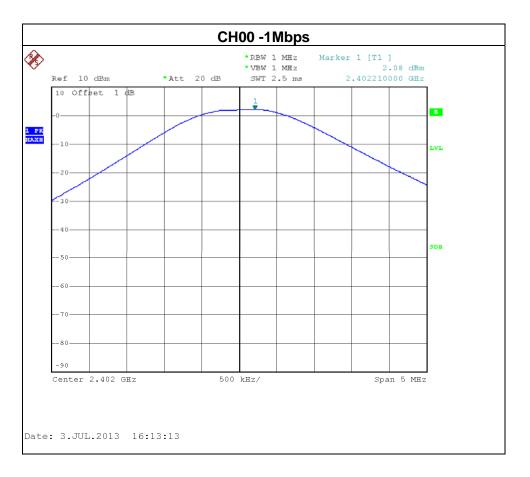
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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9.1.6 TEST RESULTS

EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	2.08	21	0.125
CH39	2441	3.00	21	0.125
CH78	2480	3.52	21	0.125

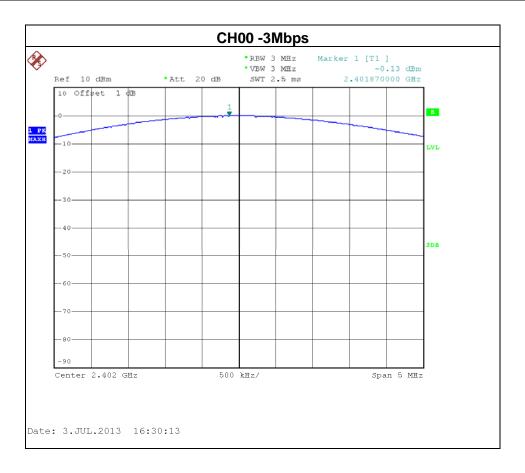


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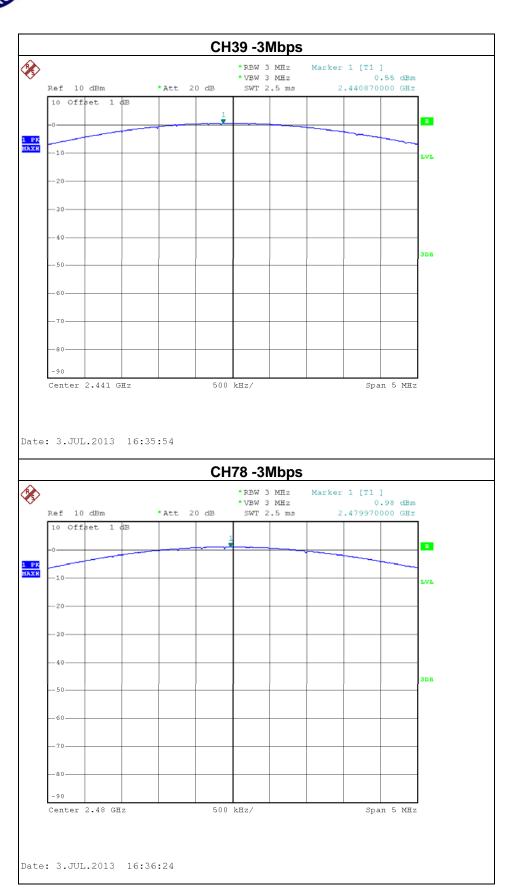


EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	-0.13	21	0.125
CH39	2441	0.55	21	0.125
CH78	2480	0.98	21	0.125



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10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

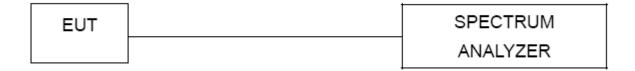
10.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP



10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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10.1.6 TEST RESULTS

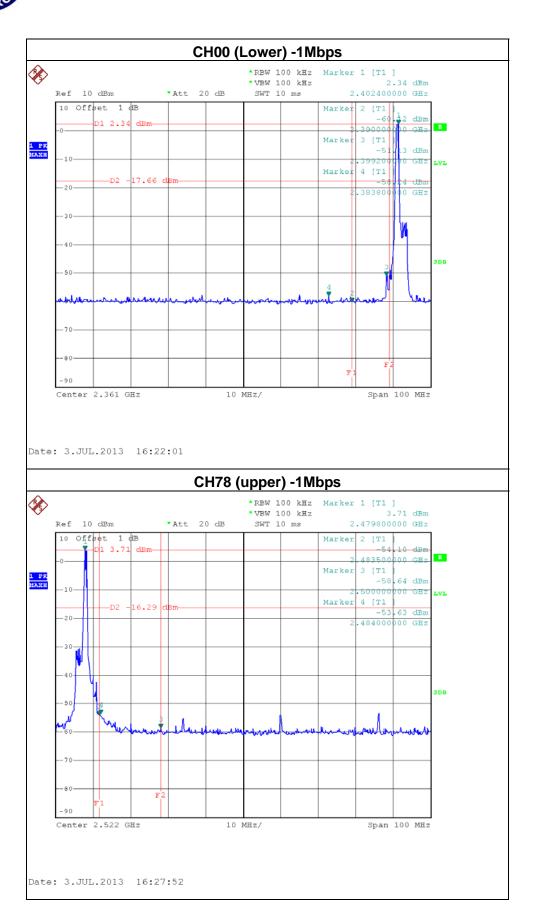
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39/ CH78-1Mbps & Hopping on mode (1Mbps)		

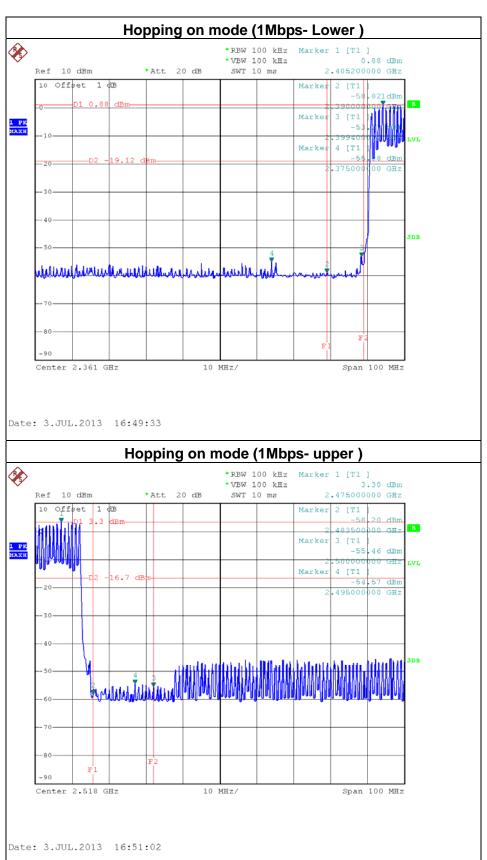
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2399.20	-51.13	2484.00	-53.63
Result			

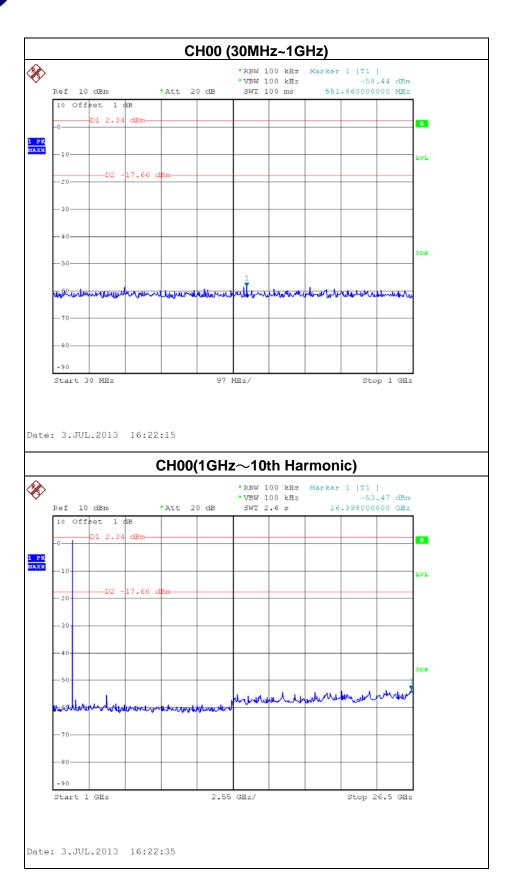
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired

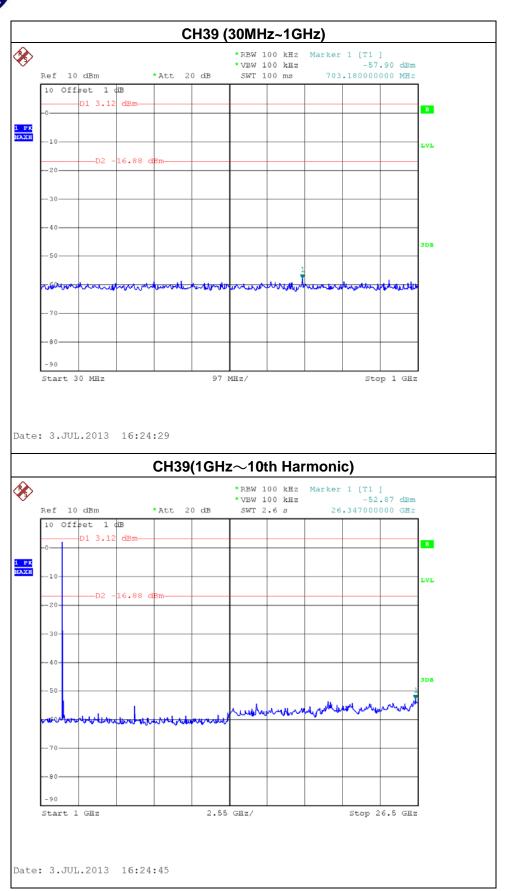
power.

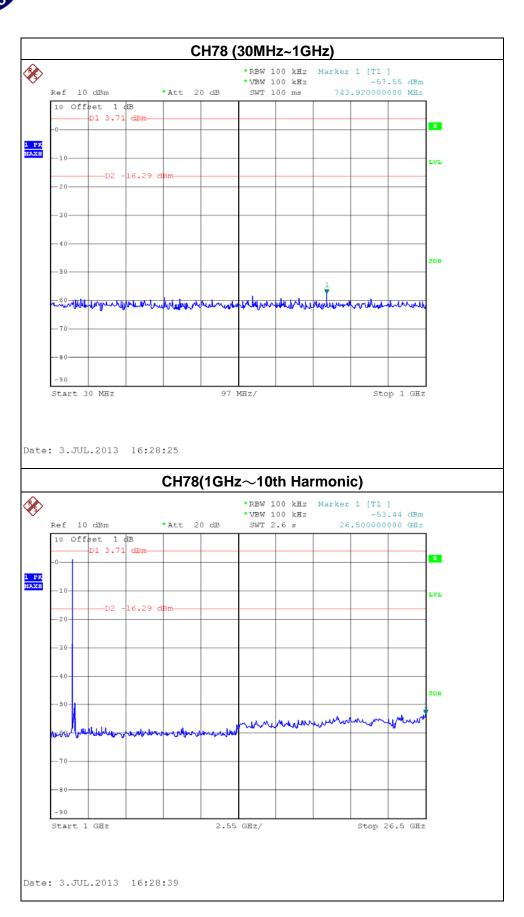
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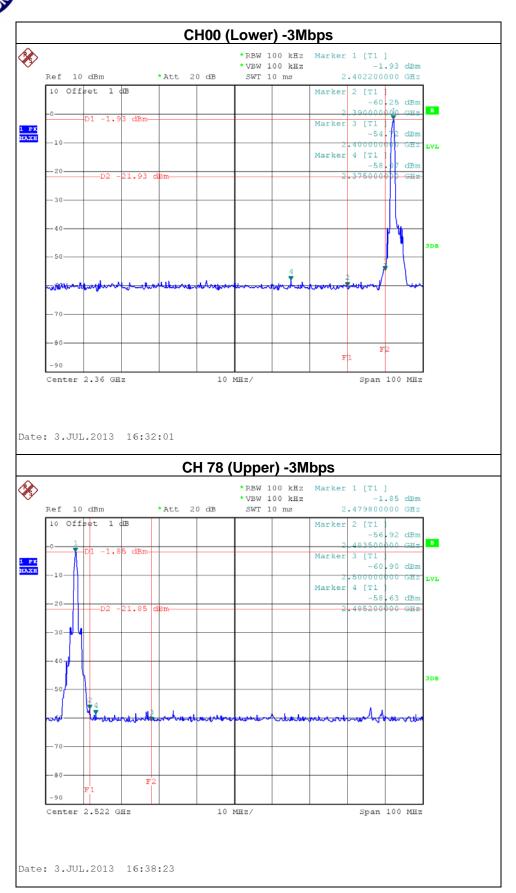


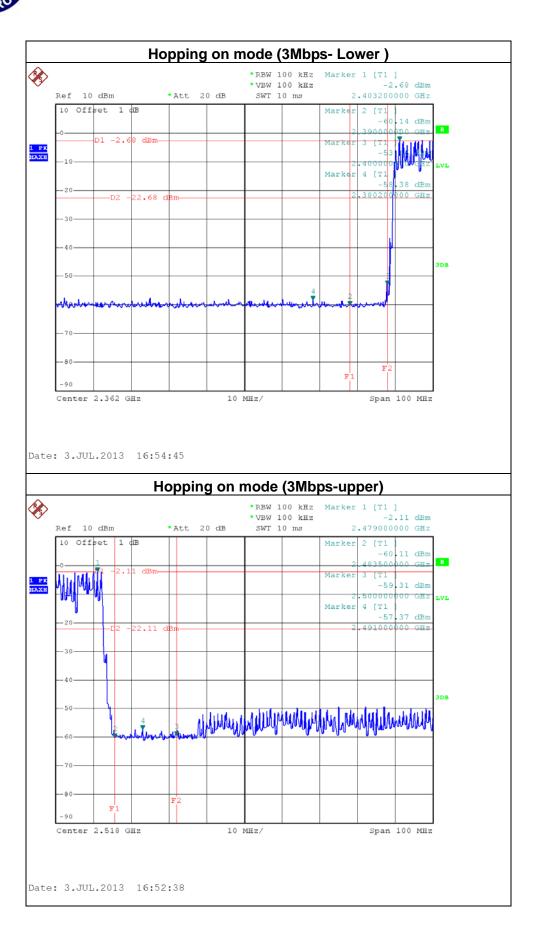
EUT:	Simple Audio Listen	Model Name :	SH-S0001
Temperature:	28 ℃	Relative Humidity:	56 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39/ CH78 -3Mbps & Hopping on mode (3Mbps)		

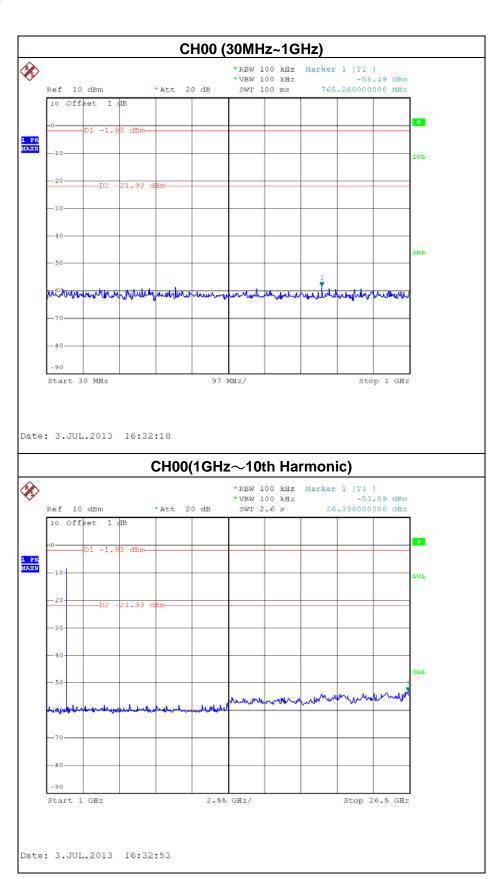
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00	-54.72	2483.50	-56.96	
Result				

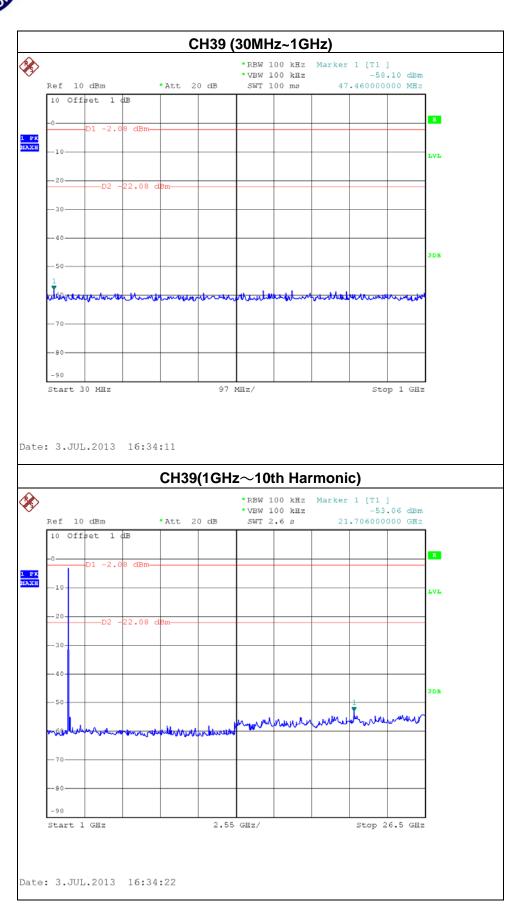
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

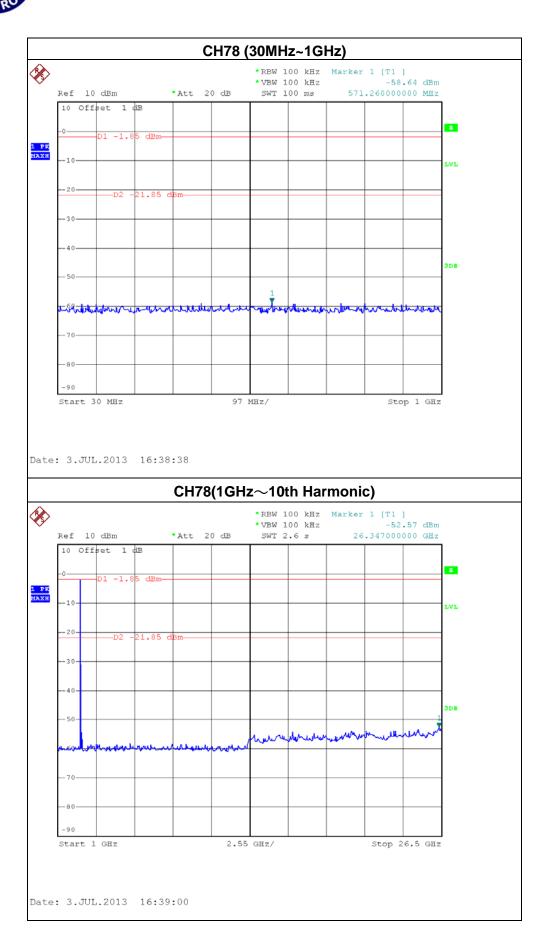
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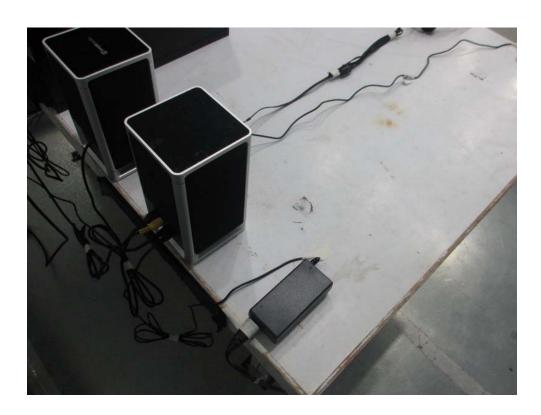




11. EUT TEST PHOTO

Conducted Measurement Photos



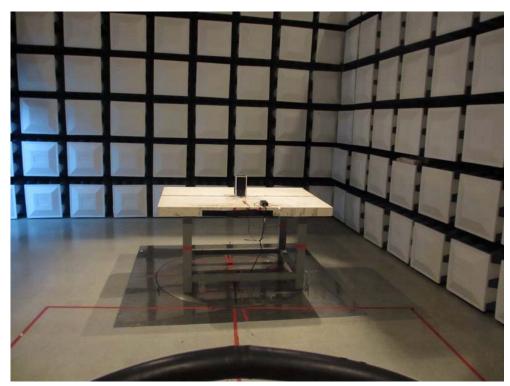


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Radiated Measurement Photos 9K~30MHz

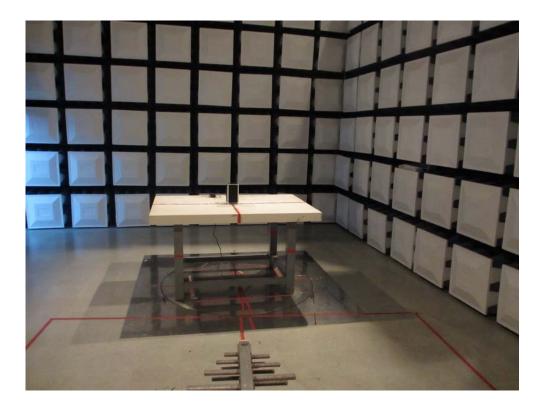




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Radiated Measurement Photos 30M~1000MHz





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Radiated Measurement Photos Above 1000MHz





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