

FCC Test Report

FCC ID	:	2ACAHTVA3
Equipment	:	TV Adapter
Model No.	:	TVA3
Applicant	:	SBO Hearing A/S
Address	:	Kongebakken 9 DK-2765 Smoerum, Denmark
Standard	:	47 CFR FCC Part 15.247
Received Date	:	Apr. 25, 2016
Tested Date	:	Apr. 25 ~ May 04, 2016

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager





Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information	5
1.2	Local Support Equipment List	7
1.3	Test Setup Chart	7
1.4	Test Equipment List and Calibration Data	8
1.5	Test Standards	9
1.6	Measurement Uncertainty	9
2	TEST CONFIGURATION	10
2.1	Testing Condition	10
2.2	The Worst Test Modes and Channel Details	10
3	TRANSMITTER TEST RESULTS	11
3.1	Conducted Emissions	11
3.2	6dB and Occupied Bandwidth	14
3.3	RF Output Power	16
3.4	Power Spectral Density	18
3.5	Emissions in Restricted Frequency Bands	
3.6	Emissions in non-restricted Frequency Bands	30
4	TEST LABORATORY INFORMATION	33



Release Record

Report No.	Version	Description	Issued Date
FR642501AE	Rev. 01	Initial issue	May 24, 2016
FR642501AE	Rev. 02	Modified HW version / SW version description (page 5.)	May 26, 2016



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.195MHz 60.40 (Margin -3.40dB) - QP	Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 47.46MHz	Pass
15.209		32.90 (Margin -7.10dB) - PK	1 455
15.247(b)(3)	Maximum Output Power	Power [dBm]: 5.54	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass



1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz)Bluetooth ModeCh. Freq. (MHz)Channel NumberData Rate							
2400-2483.5 V4.2 LE 2402-2480 0-39 [40] 1				1 Mbps			
Note 1: Bluetooth LE (Low energy) uses GFSK modulation. Note 2: HW version: B3 / SW version: 0.9.3							

1.1.2 Antenna Details

Ant. No.	Туре	Connector	Gain (dBi)	Remarks
1	Metal plate	3.2	N/A	

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from adapter
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1.1.4 Accessories

No.	Equipment	Description
1	AC adapter	Brand Name: PHIHONG Model Name: A M05A-050A-R I/P: 100-240Vac, 50-60Hz, 0.2A O/P: 5Vdc, 1A Power Line: 1.82m non-shielded without core
2	2 AC adapter Brand Name: PHIHONG 1/P: 100-240Vac, 300mA, 50-60Hz, 12-18VA 0/P: 5Vdc, 1A Power Line: 1.81m non-shielded without core	

1.1.5 Channel List

	Frequency	band (MHz)		2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

1.1.6 Test Tool and Duty Cycle

Test tool	NebulaDeveloper, ver. 0.9.3
Duty cycle of test signal (%)	62.96%
Duty Factor (dB)	2.01



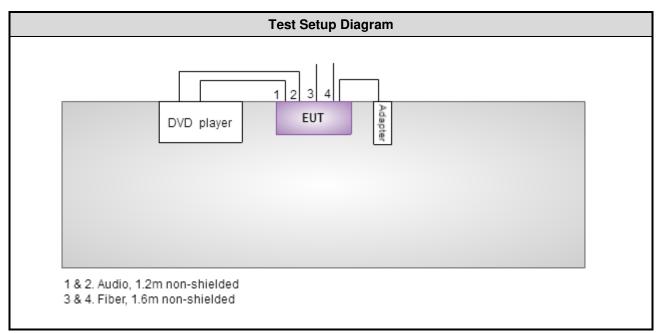
1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)			
	2402	2440	2480	
GFSK/1Mbps	Default	Default	Default	

1.2 Local Support Equipment List

	Support Equipment List							
No.	No. Equipment Brand Model FCC ID Signal cable / Length (m)							
1	DVD player	SONY	BDP-S190	3224521	Audio, 1.2m non-shielded			
2	Notebook	DELL	Latitude E6430	F2JB4X1	Fiber, 1.6m non-shielded			

1.3 Test Setup Chart



Note: The support notebook was disconnected from EUT and removed from test table when EUT is set to transmit continuously.



1.4 Test Equipment List and Calibration Data

Test Item	Conducted Emission	Conducted Emission							
Test Site	Conduction room 1 / (CO01-WS)								
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until				
EMC Receiver	R&S	ESCS 30	100169	Oct. 21, 2015	Oct. 20, 2016				
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2015	Nov. 12, 2016				
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 26, 2015	Nov. 25, 2016				
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 21, 2015	Dec. 20, 2016				
50 ohm terminal (Support Unit)	NA	50	04	Apr. 12, 2016	Apr. 11, 2017				
Measurement Software	AUDIX	e3	6.120210k	NA	NA				

Test Item	Radiated Emission							
Test Site	966 chamber 3 / (03	CH03-WS)						
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until			
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 14, 2015	Sep. 13, 2016			
Receiver	Agilent	N9038A	MY53290044	Oct. 14, 2015	Oct. 13, 2016			
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Nov. 16, 2015	Nov. 15, 2016			
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 24, 2016	Feb. 23, 2017			
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016			
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 16, 2015	Nov. 15, 2016			
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 10, 2015	Dec. 09, 2016			
Preamplifier	EMC	EMC02325	980187	Sep. 21, 2015	Sep. 20, 2016			
Preamplifier	Agilent	83017A	MY53270014	Sep. 07, 2015	Sep. 06, 2016			
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016			
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 05, 2016	Feb. 04, 2017			
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 05, 2016	Feb. 04, 2017			
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 05, 2016	Feb. 04, 2017			
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-00 1	Feb. 05, 2016	Feb. 04, 2017			
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 05, 2016	Feb. 04, 2017			
LF cable-13M	EMC	EMC8D-NM-NM-1300 0	131104	Feb. 05, 2016	Feb. 04, 2017			
Measurement Software	AUDIX	e3	6.120210g	NA	NA			



Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2016	Feb. 16, 2017
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
DC POWER SOURCE	GW INSTEK	GPC-3060D	EM884797	Oct. 20, 2015	Oct. 19, 2016
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 26, 2015	Oct. 25, 2016
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247 ANSI C63.10-2013 FCC KDB 558074 D01 DTS Meas Guidance v03r05

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty					
Parameters	Uncertainty				
Bandwidth	±34.134 Hz				
Conducted power	±0.808 dB				
Power density	±0.463 dB				
Conducted emission	±2.670 dB				
AC conducted emission	±2.90 dB				
Radiated emission ≤ 1GHz	±3.66 dB				
Radiated emission > 1GHz	±5.37 dB				



2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	21°C / 60%	Howard Huang
Radiated Emissions	03CH03-WS	24°C / 62%	Allen Yu
RF Conducted	TH01-WS	22°C / 63%	Alex Huang

FCC site registration No.: 207696

➢ IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Mode	Test Frequency (MHz)	Data Rate	Test Configuration
BT LE	2440	1Mbps	
BT LE	2440	1Mbps	
BT LE	2402, 2440, 2480	1Mbps	
BTLE	2402, 2440, 2480	1Mbps	
	BT LE BT LE BT LE	Mode (MHz) BT LE 2440 BT LE 2440 BT LE 2440 BT LE 2402, 2440, 2480	Mode (MHz) Data Hate BT LE 2440 1Mbps BT LE 2440 1Mbps BT LE 2402, 2440, 2480 1Mbps

NOTE:

1. Two adapters (model A M05A-050A-R and model PSAC05R-050T1) had been covered during the pretest, and found that model **PSAC05R-050T1** was the worst case and was selected for final test.

- S/N of test samples are as below 00J9999651454 00J9999651412
 - 00J9999651415
- 3. S/N of test adapter is P160303352A1



3 Transmitter Test Results

3.1 Conducted Emissions

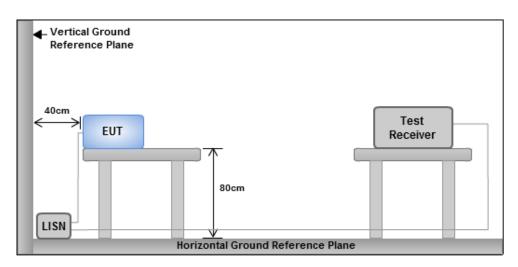
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit							
Frequency Emission (MHz)	Quasi-Peak	Average					
0.15-0.5	66 - 56 *	56 - 46 *					
0.5-5	56	46					
5-30	60	50					
Note 1: * Decreases with the logarith	Note 1: * Decreases with the logarithm of the frequency.						

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V/60Hz

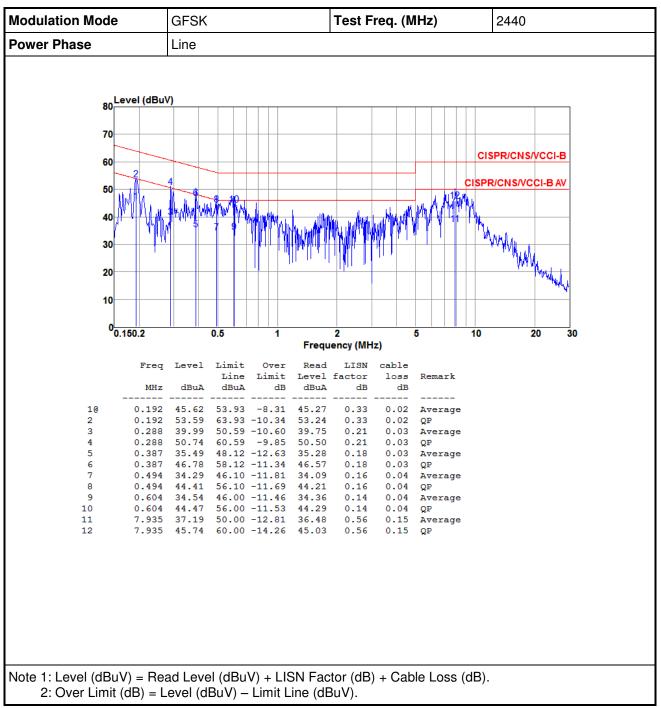
3.1.3 Test Setup



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

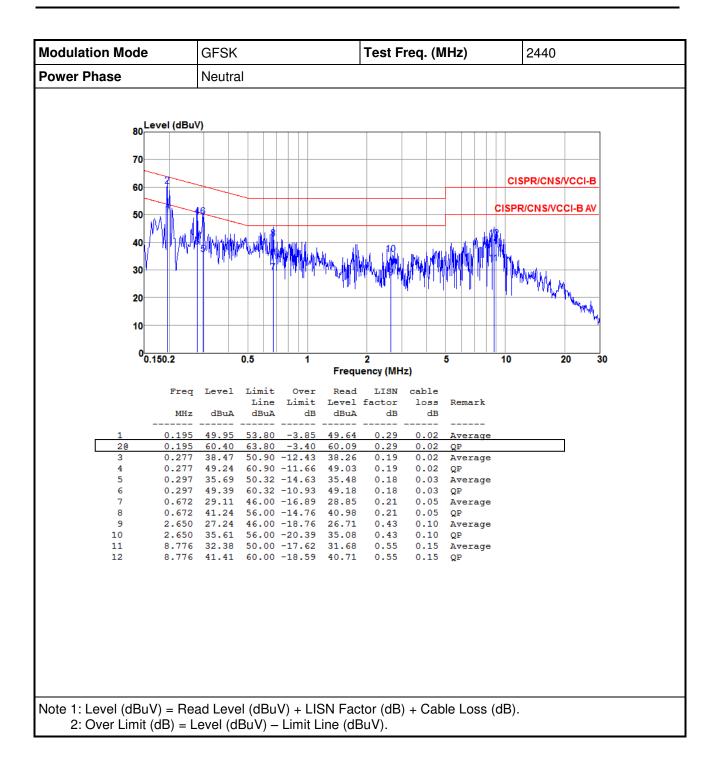
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes





3.1.4 Test Result of Conducted Emissions







3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

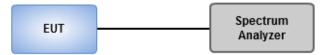
6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- 1. Set resolution bandwidth (RBW) = 30 kHz, Video bandwidth = 100 kHz.
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.2.3 Test Setup





		•		
Mode	Freq. (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit of 6dB Bandwidth (kHz)
BT LE	2402	0.722	1.07	500
BT LE	2440	0.730	1.06	500
BT LE	2480	0.730	1.06	500

3.2.4 Test Result of 6dB and Occupied Bandwidth

6dE	Bandwidth			99% Occui	pied Bandwi	dth
••						
Spectrum			Spectrum			(III)
Ref Level 20.00 dBm Offset 10.50 dB @ R			Ref Level 20.00 d		20 kHz 100 kHz Mode Sweep	<u></u>
Att 30 dB SWT 1 ms V	BW 300 kHz Mode Sweep		Att 30 ISa View	1 GB SWI 1.1 ms 🖷 VBW	100 kHz Mode Sweep	
	M1[1]	-4.56 dBm			M1[1]	-9.39 dBn
10 dBm	Occ Bw	2.40165652 GHz 1.328509407 MHz	10 dBm		Occ Bw	2.40168261 GH 1.068017366 MH
TO OPIN-	D1[1]	0.15 dB	10 dbm		D1[1]	-0.24 dE
0 dBm 01 1.420 dBm		721.74 kHz	0 dBm-			634.78 kH
D2 -4.580 dBm	- Qi		D1 -4.17	77 dBm M1 A 7	0.0	<u>+</u>
-10 dBm		1000 C	10 dBmD2	-10.177 dBm	mange	
		T2		TYNY	w has	
-20 dBm			-20 dBm-	7		t i
				4		N. I.
-30 dBm		m	-30 dBm	1		1 million
-40 dBm-			-40 dBm	my		- Vh
			inde			m
-50 dBm-			-50 dBm			
-60 dBm			-60 dBm			
-70 dBm-	F2		-70 dBm	FI	F2	
1 I I I I I I I I I I I I I I I I I I I				F.		
CF 2.402 GHz	691 pts	Span 3.0 MHz	CF 2.402 GHz	12 23 2 8	691 pts	Span 3.0 MHz



3.3 **RF Output Power**

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

- Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.
- Antenna gain > 6dBi
 - Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

Maximum Peak Conducted Output Power

- Spectrum analyzer
 - 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 - 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 - 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

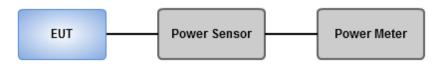
Power meter

- 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Average Output Power (For reference only)

Power meter

1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup





		Peak Power		Antenna	EIRP	EIRP	
Mode	Freq. (MHz)	Power (mW)	Power (dBm)	Limit (dBm)	gain (dBi)	(dBm)	Limit (dBm)
BT LE	2402	1.92	2.84	30	3.2	6.04	36
BT LE	2440	3.58	5.54	30	3.2	8.74	36
BT LE	2480	2.41	3.82	30	3.2	7.02	36

Mode	Freq. (MHz)	AV Power (mW)	AV Power (dBm)	Limit (dBm)
BT LE	2402	1.81	2.58	
BT LE	2440	3.48	5.41	
BT LE	2480	2.18	3.39	

Note: Average power is for reference only



3.4 **Power Spectral Density**

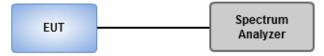
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - 1. Set the RBW = 3kHz, VBW = 10kHz.
 - 2. Detector = Peak, Sweep time = auto couple.
 - 3. Trace mode = max hold, allow trace to fully stabilize.
 - 4. Use the peak marker function to determine the maximum amplitude level.
- Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - 1. Set the RBW = 100kHz, VBW = 300 kHz.
 - 2. Detector = RMS, Sweep time = auto couple.
 - 3. Perform the measurement over a single sweep.
 - 4. Use the peak marker function to determine the maximum amplitude level.

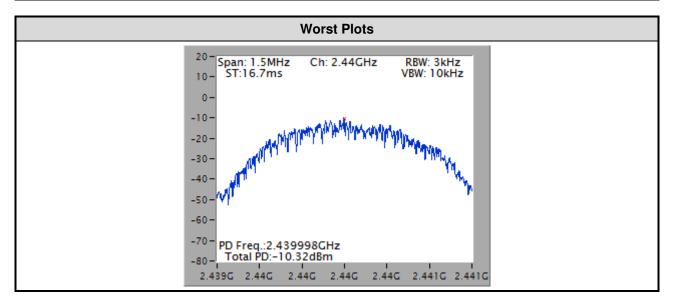
3.4.3 Test Setup





Mode	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BT LE	2402	-13.07	8
BT LE	2440	-10.32	8
BT LE	2480	-12.22	8

3.4.4 Test Result of Power Spectral Density





3.5 Emissions in Restricted Frequency Bands

3.5.1 Limit of Emissions in Restricted Frequency Bands

	Restricted Band	Emissions Limit	
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

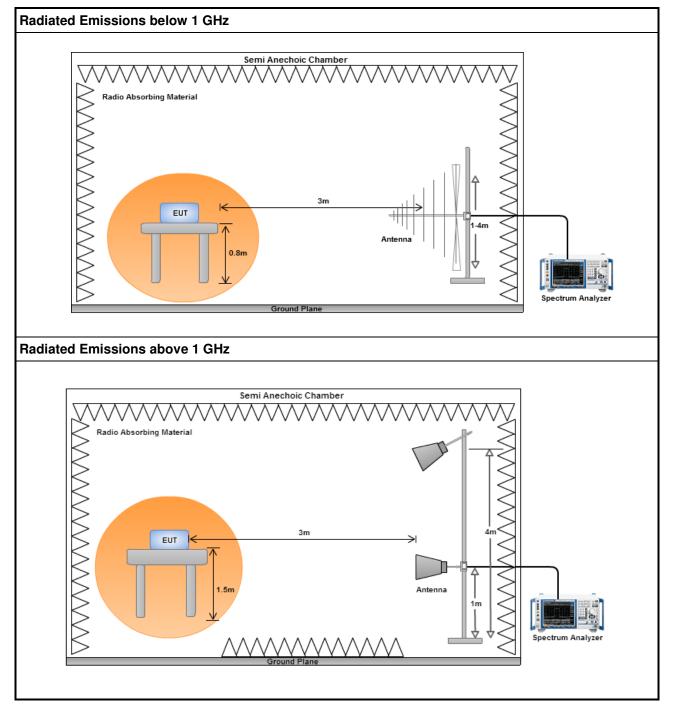
- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

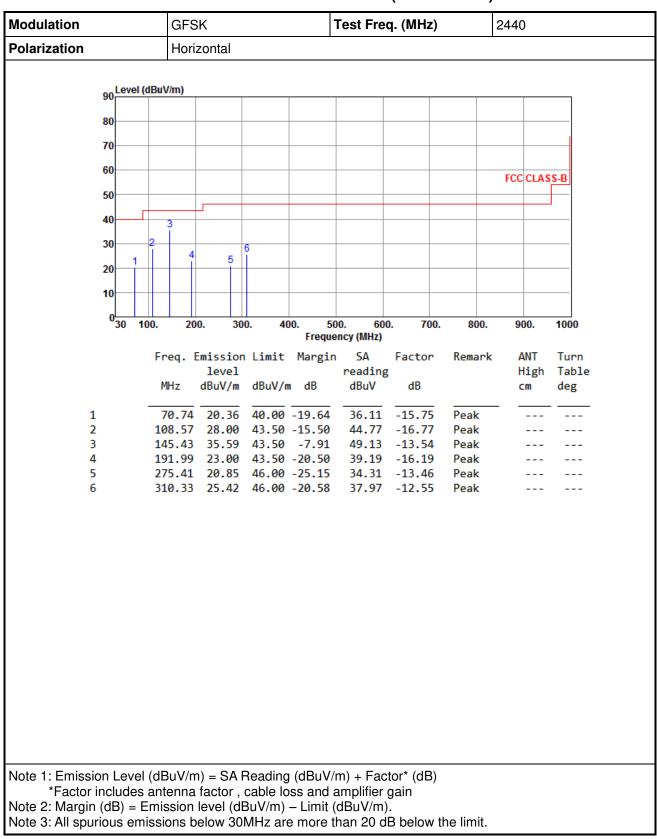
- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.



3.5.3 Test Setup

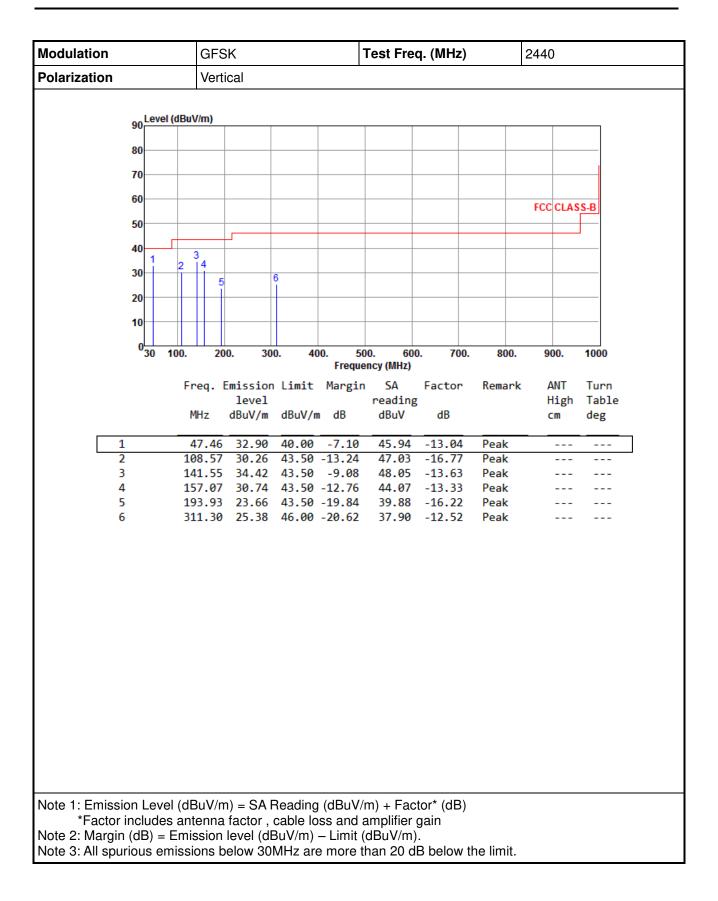




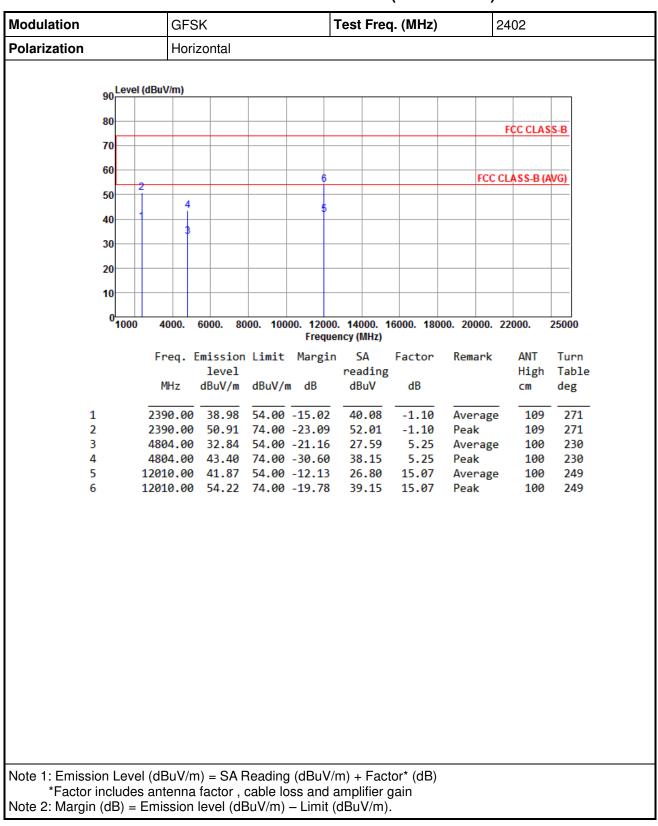


3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



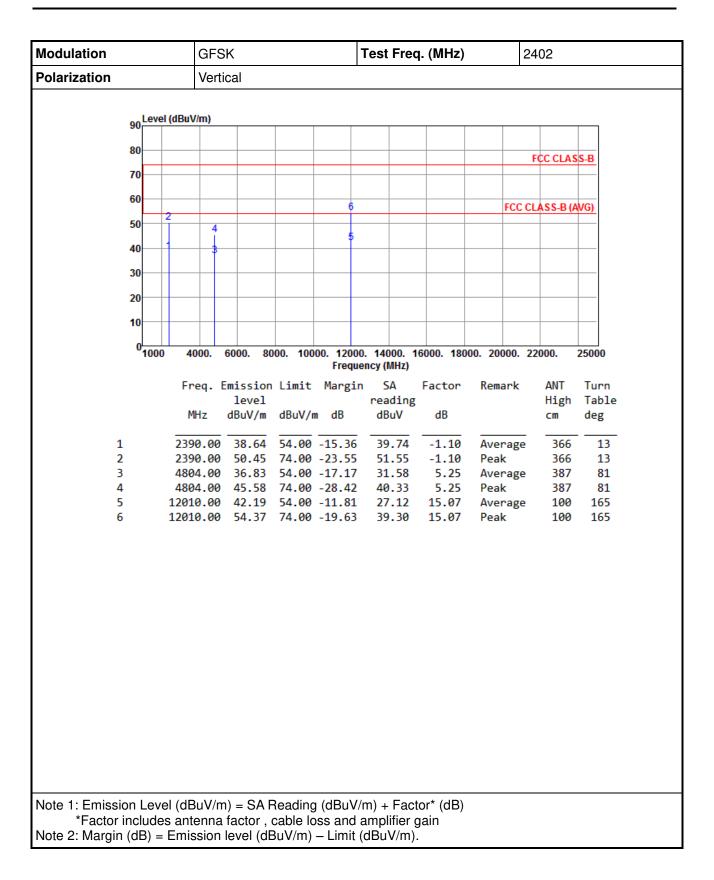




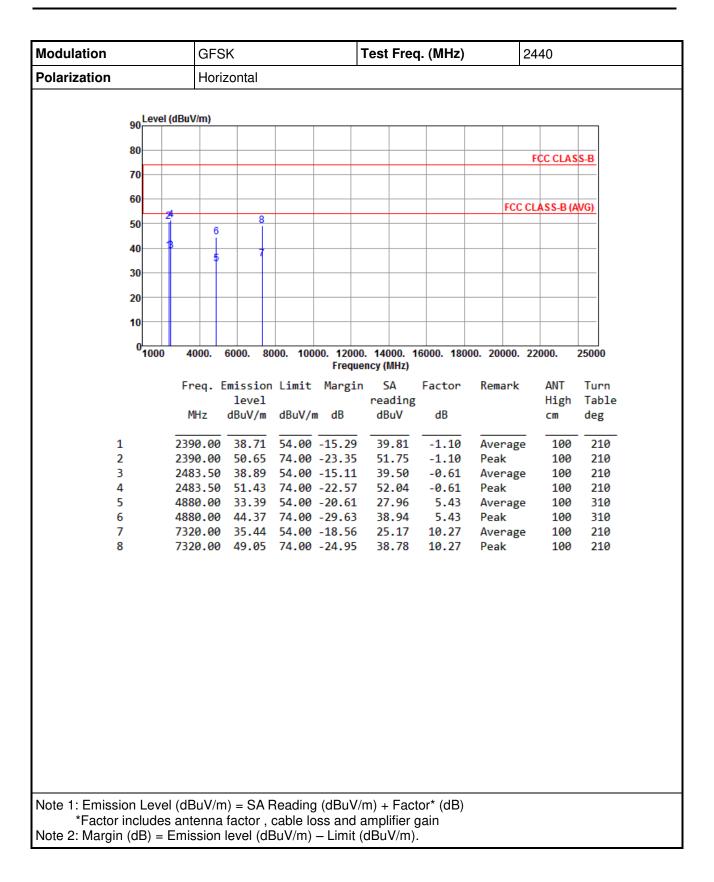


3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK

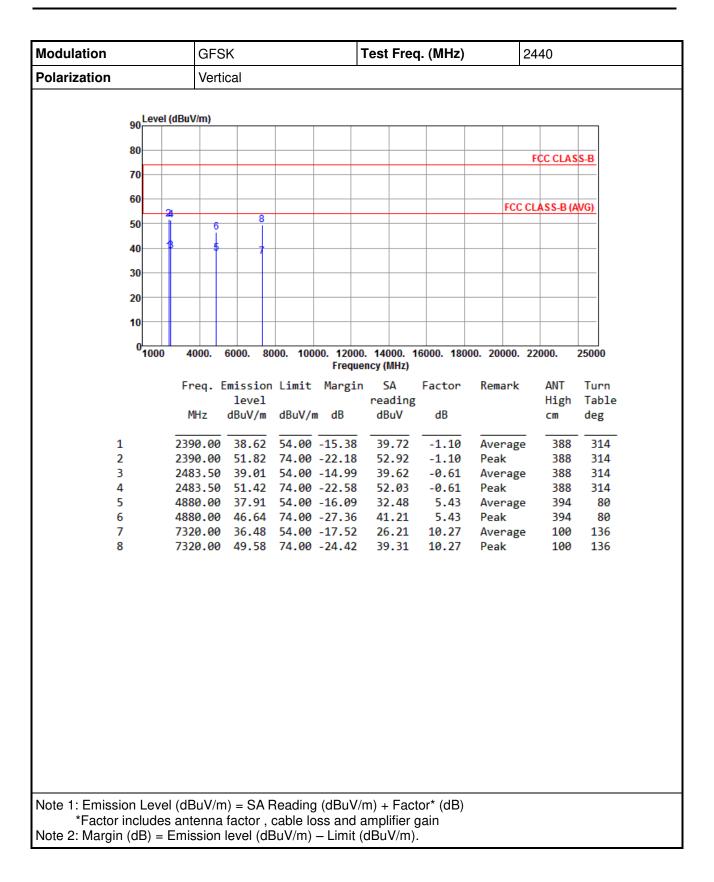




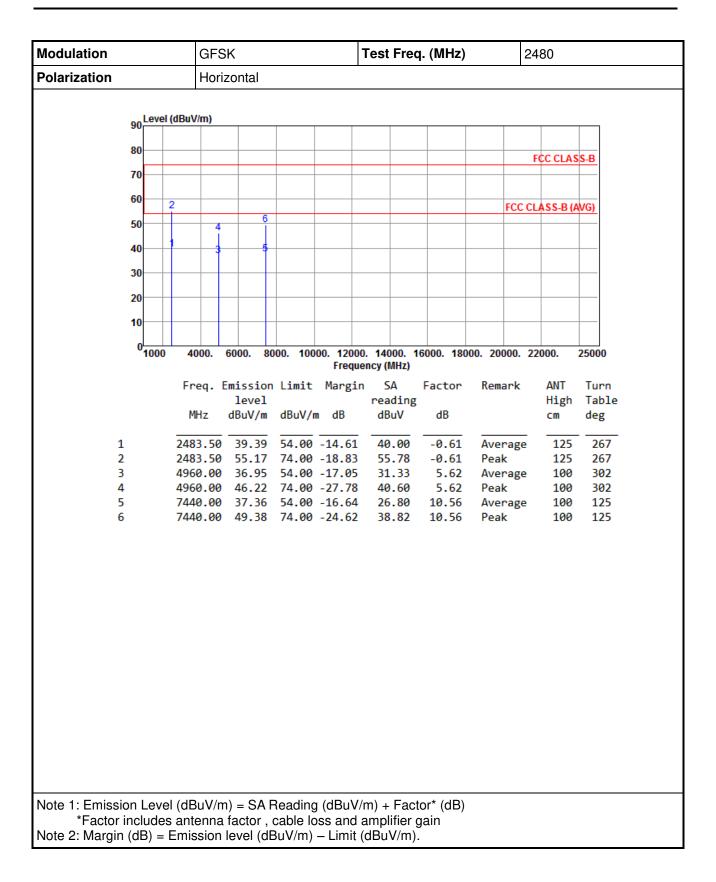




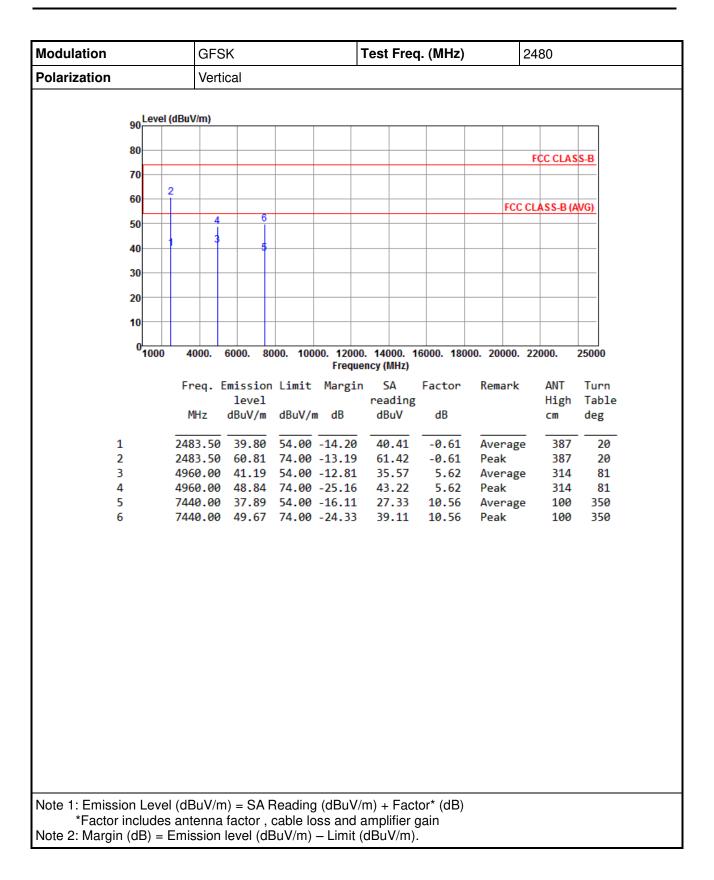














3.6 Emissions in non-restricted Frequency Bands

3.6.1 Emissions in non-restricted frequency bands limit

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

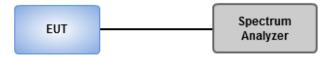
Reference Level Measurement

- 1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- 2. Set Sweep time = auto couple, Trace mode = max hold.
- 3. Allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

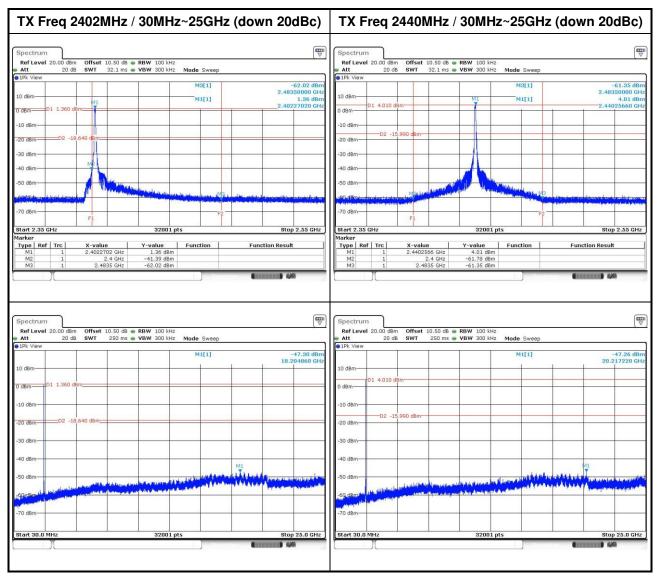
Unwanted Emissions Level Measurement

- 1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- 2. Trace Mode = max hold, Sweep = auto couple.
- 3. Allow the trace to stabilize.
- 4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

3.6.3 Test Setup







3.6.4 Test Result of Emissions in non-restricted Frequency Bands



pectrum					
Att 20 dB SWT 3	.50 dB 🖷 RBW 100 kHz 2.1 ms 🖷 VBW 300 kHz 🛛 Mode	Sweep			
1Pk View	M	11[1]	2.18	dBm	
) dBm M2[1]M161.68 dBm				GHz	
dBm-01 2.180 dBm-		IZI IJM1	2.4000000	GHz	
LO dBm					
00.17.000.00					
20 dBm 02 -17.820 06m					
IO dBm					
0 dBm		13			
50 dBm	and the second sec				
BadPrize and the M2 star		Mail Inden the			
70 dBm		F2			
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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <u>http://www.icertifi.com.tw</u>.

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Kwei Shan Site II Tel: 886-3-271-8640

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If you have any suggestion, please feel free to contact us as below information

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