

FCC Test Report

FCC ID	:	DMOSEBT1		
Equipment	:	Bluetooth in-ear headphones		
Model No.	:	SEBT1		
Brand Name	:	SENNHEISER		
Applicant	:	Sennheiser Electronic Corp		
Address	:	1 Enterprise Drive Old Lyme, CT 06371, U.S.A		
Standard	:	47 CFR FCC Part 15.247		
Received Date	:	Aug. 14, 2019		
Tested Date	:	Sep. 16 ~ Oct. 02, 2019		

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.

Reviewed by:

Approved by:

Along Chen / Assistant Manager Gary Chang / Manager

tay ly



Testing Laboratory 2732



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Release Record

Report No.	Version	Description	Issued Date
FR981406AE	Rev. 01	Initial issue	Dec. 04, 2019



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.156MHz 55.34 (Margin -10.35dB) - QP	Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 7320.00MHz	Pass
15.209		48.33 (Margin -5.67dB) - AV	1 833
15.247(b)(3)	Maximum Output Power	Power [dBm]: 7.70	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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



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 V5.0 LE 2402-2480 0-39 [40] 1 Mbps						
Note 1: Bluetooth LE	Note 1: Bluetooth LE (Low energy) uses GFSK modulation.					

1.1.2 Antenna Details

Ant. No.	Туре	Connector	Gain (dBi)	Remarks
1	Chip Antenna	N/A	0	

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from adapter 5Vdc from host 3.7dc from battery
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1.1.4 Accessories

	Accessories					
No. Equipment Description						
1	Battery	Brand Name: SENNHEISER Model Name: AHB480832PLT Power Rating: 3.7Vdc, 100mAh				
2	Type C-Charging Cable	Brand Name: SENNHEISER Model Name: 501-30303L4342-0 Power Line: 0.15m shielded cable w/o core				



1.1.5 Channel List

	Frequency	band (MHz)			2400~2	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	Blue Test3, v 3.1.4.758			
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)		
Duty Cycle and Duty Factor	64.81	1.88		

1.1.7 Power Index of Test Tool

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



1.2 Local Support Equipment List

	Support Equipment List					
No. Equipment Brand Model FCC ID Remarks					Remarks	
1	Notebook	DELL	Latitude E5470	DoC		

1.3 Test Setup Chart

Test Setup Diagram							
	EUT 1 Notebook						
No.	Signal cable / Length (m)						
1	Type C-Charging Cable, 0.15m shielded.						



Test Equipment List and Calibration Data 1.4

Test Item	Conducted Emission	Conducted Emission							
Test Site	Conduction room 1 /	Conduction room 1 / (CO01-WS)							
Tested Date	Sep. 23, 2019	Sep. 23, 2019							
Instrument	Manufacturer	Manufacturer Model No. Serial No. Calibration Date Calibration Until							
Receiver	R&S	ESR3	101657	Jan. 08, 2019	Jan. 07, 2020				
LISN	R&S	ENV216	101579	Mar. 08, 2019	Mar. 07, 2020				
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 23, 2018	Oct. 22, 2019				
Measurement Software	AUDIX	e3	6.120210k	NA	NA				
Note: Calibration Int	erval of instruments list	ted above is one year.							

Test Item	Radiated Emission								
Test Site	966 chamber1 / (03CH01-WS)								
Tested Date	Sep. 16 ~ Sep. 17, 20	Sep. 16 ~ Sep. 17, 2019							
Instrument	Manufacturer	Manufacturer Model No. Serial No. Calibration Date Calibration Until							
Spectrum Analyzer	R&S	FSV40	101498	Dec. 27, 2018	Dec. 26, 2019				
Receiver	R&S	ESR3	101658	Dec. 11, 2018	Dec. 10, 2019				
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020				
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 18, 2018	Dec. 17, 2019				
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019				
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019				
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 08, 2018	Oct. 07, 2019				
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020				
Preamplifier	Agilent	83017A	MY39501308	Oct. 04, 2018	Oct. 03, 2019				
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020				
RF Cable	EMC	EMC105-SM-SM-8000	180512	Oct. 22, 2018	Oct. 21, 2019				
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Oct. 22, 2018	Oct. 21, 2019				
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Oct. 22, 2018	Oct. 21, 2019				
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Oct. 22, 2018	Oct. 21, 2019				
LF cable 10M	EMCC	CFD400-E	CFD400-001	Oct. 22, 2018	Oct. 21, 2019				
Measurement Software	AUDIX	e3	6.120210g	NA	NA				
Note: Calibration Inter	val of instruments liste	d above is one year.							



Test Item	RF Conducted	RF Conducted							
Test Site	(TH01-WS)	TH01-WS)							
Tested Date	Oct. 02, 2019	Dct. 02, 2019							
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until				
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020				
Power Meter	Anritsu	ML2495A	1241002	Oct. 09, 2018	Oct. 08, 2019				
Power Sensor	Anritsu	MA2411B	1207366	Oct. 09, 2018	Oct. 08, 2019				
DC POWER SOURCE	GW INSTEK	GPC-6030D	EM892433	Oct. 25, 2018	Oct. 24, 2019				
AC POWER SOURCE	APC	AFC-500W	F312060012	Nov. 29, 2018	Nov. 28, 2019				
Measurement Software	Sporton	SENSE-15247_FS	V5.10.1	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 15.247 Meas Guidance v05r02

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 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	±34.130 Hz				
Conducted power	±0.808 dB				
Power density	±0.583 dB				
Conducted emission	±2.715 dB				
AC conducted emission	±2.92 dB				
Radiated emission ≤ 1GHz	±3.41 dB				
Radiated emission > 1GHz	±4.59 dB				



2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	24°C / 60%	Alex Tsai
Radiated Emissions	03CH01-WS	24-26°C / 64-65%	Akun Chung
RF Conducted	TH01-WS	22°C / 63%	Brad Wu

➢ FCC Designation No.: TW2732

➢ FCC site registration No.: 181692

> ISED#: 10807A

➤ CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions Radiated Emissions ≤ 1GHz	BT LE	2402	1Mbps	
Maximum Output Power 6dB bandwidth Power spectral density Radiated Emissions > 1GHz	BT LE	2402, 2440, 2480	1Mbps	

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

2. Two powers (notebook charging mode and adapter charging mode) had been covered during the pretest, and found that notebook charging mode was the worst case and was selected for final test.



3 Transmitter Test Results

3.1 Conducted Emissions

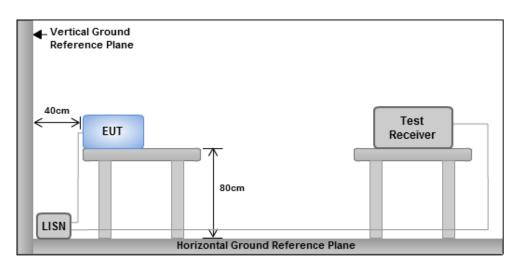
3.1.1 Limit of Conducted Emissions

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 logarit	hm 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.
- 2. 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

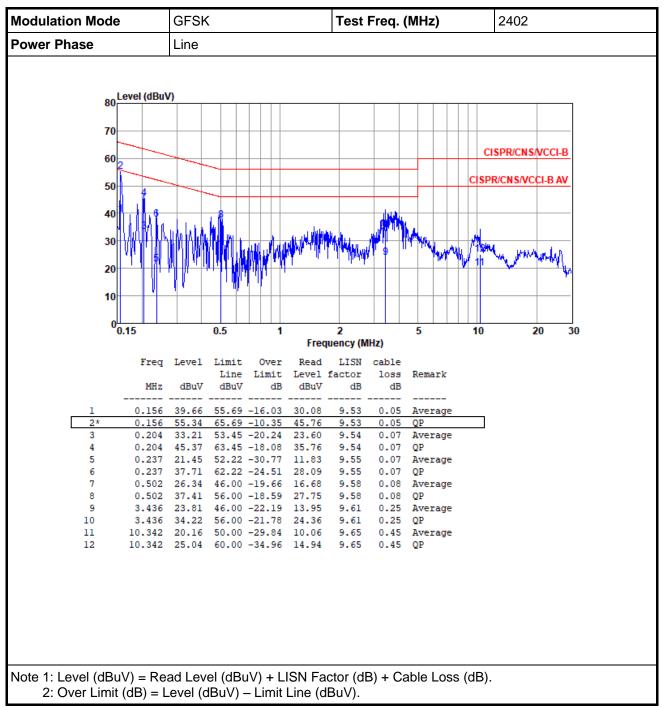
3.1.3 Test Setup



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

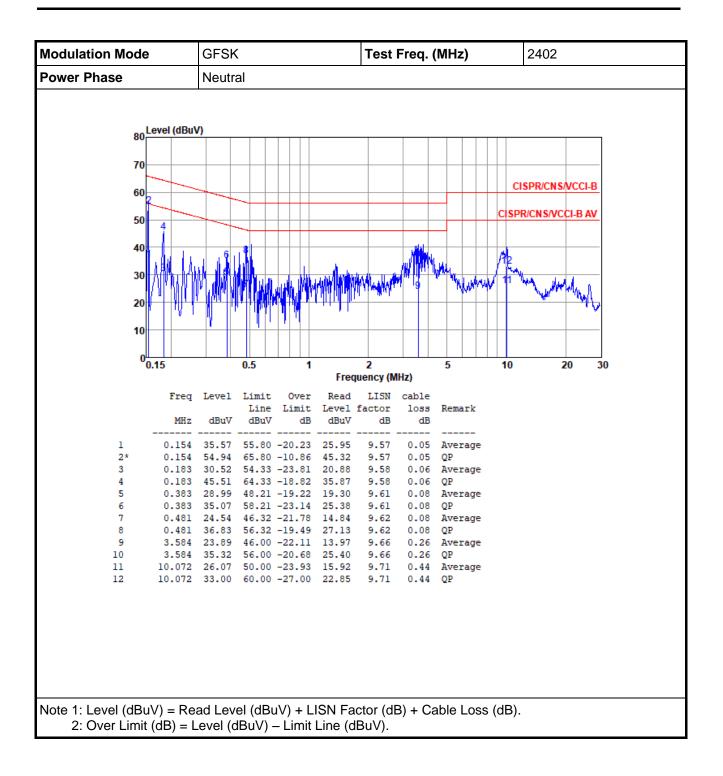
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes





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

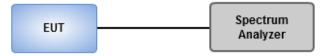
6dB Bandwidth

- 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) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
- 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





3.2.4 Test Result of 6dB and Occupied Bandwidth

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	717.391k	1.027M	1M03F1D	702.899k	1.027M

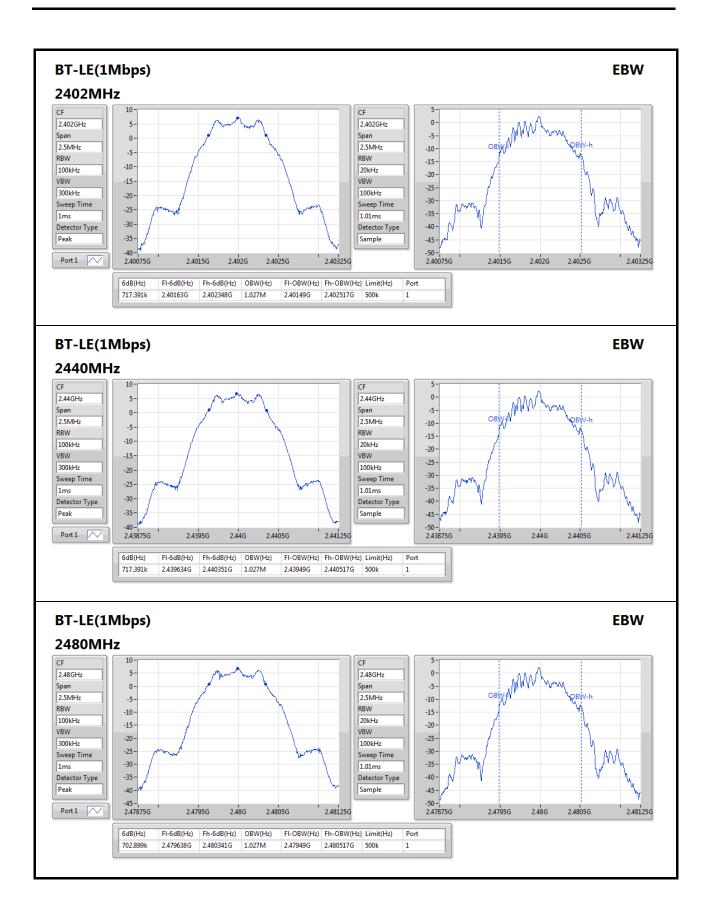
Max-N dB = Maximum6dB downbandwidth;**Max-OBW** = Maximum99% occupied bandwidth; **Min-N dB** = Minimum6dB downbandwidth;**Min-OBW** = Minimum99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	717.391k	1.027M
2440MHz	Pass	500k	717.391k	1.027M
2480MHz	Pass	500k	702.899k	1.027M

Port X-N dB = Port X6dB downbandwidth; Port X-OBW = Port X99% occupied bandwidth;







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.

3.3.2 Test Procedures

A broadband 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





3.3.4 Test Result of Maximum Output Power

Summary of Peak Conducted Output Power

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.70	0.00589

Result

Mode	Result	Gain	Power	Power Limit
		(dBi)	(dBm)	(dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.00	7.70	30.00
2440MHz	Pass	0.00	7.44	30.00
2480MHz	Pass	0.00	7.22	30.00

Summary of Conducted (Average) Output Power

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.61	0.00577

Result

Mode	Result	Gain	Power	Power Limit
		(dBi)	(dBm)	(dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.00	7.61	
2440MHz	Pass	0.00	7.37	
2480MHz	Pass	0.00	7.15	

Note: Average power is for reference only.



3.4 Power Spectral Density

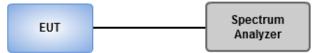
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

- 1. Set the RBW = 3 kHz, VBW = 10 kHz.
- 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.

3.4.3 Test Setup





3.4.4 Test Result of Power Spectral Density

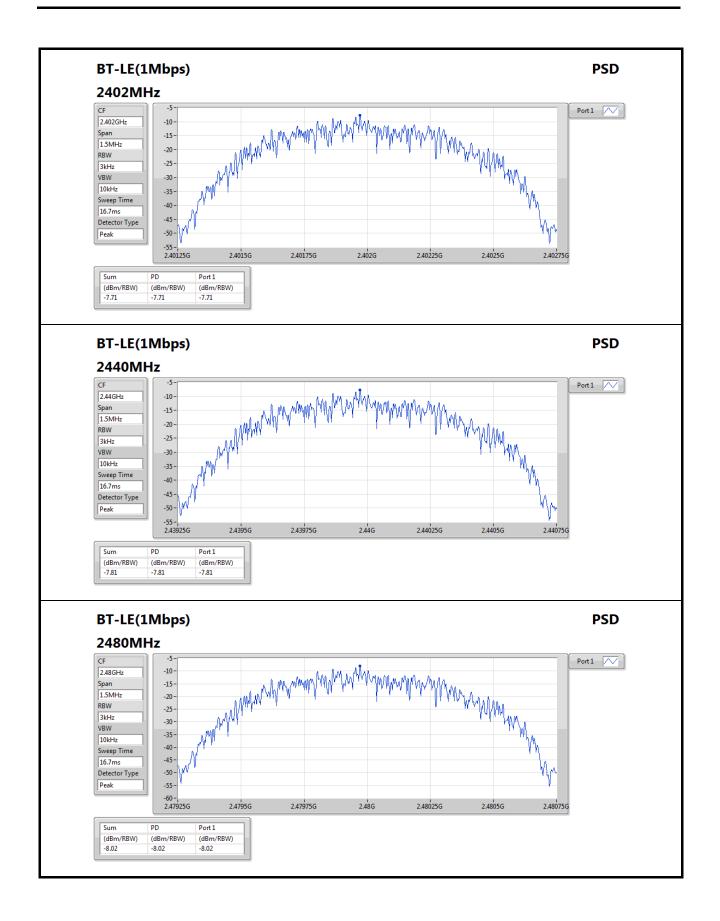
Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-7.71

Result

Mode	Result	Gain	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.00	-7.71	8.00
2440MHz	Pass	0.00	-7.81	8.00
2480MHz	Pass	0.00	-8.02	8.00







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

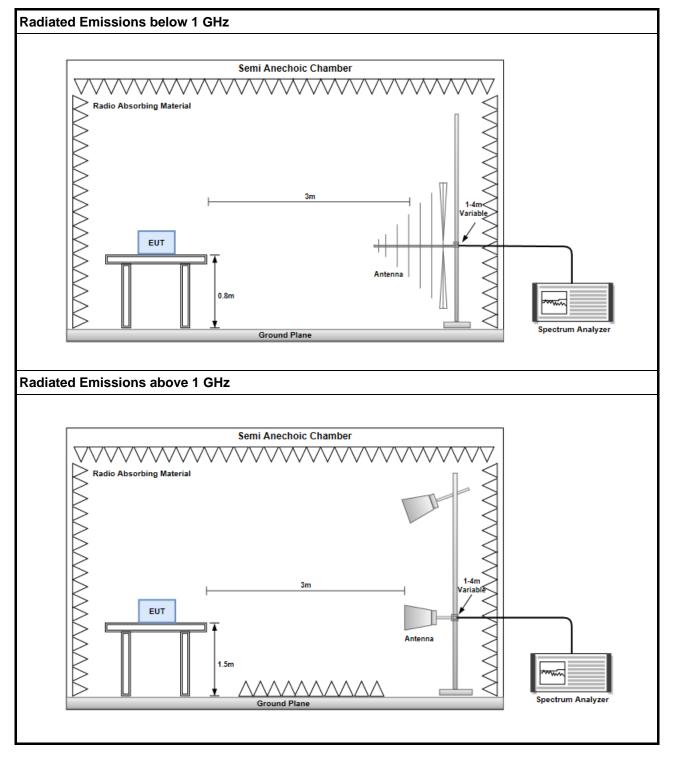
- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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
- 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:

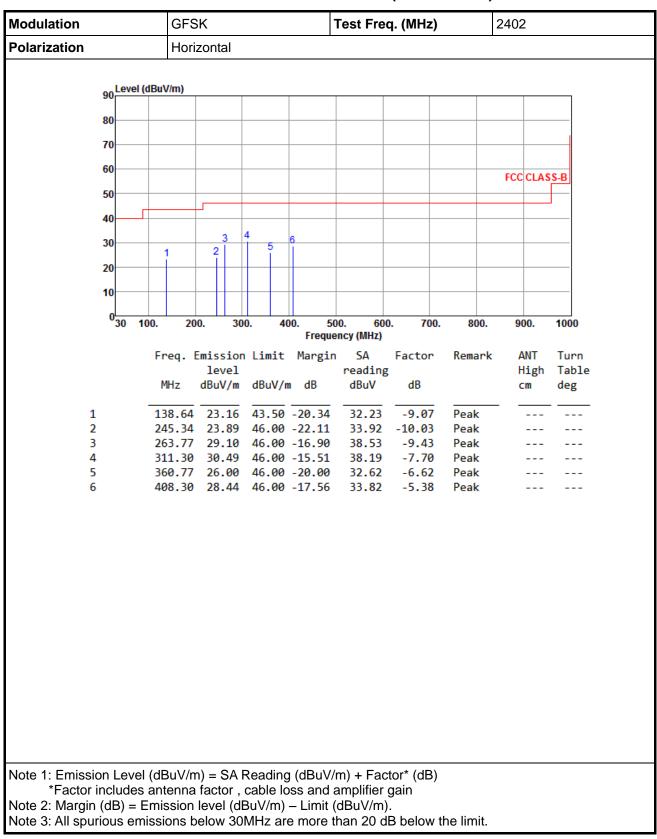
- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission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



3.5.3 Test Setup







3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



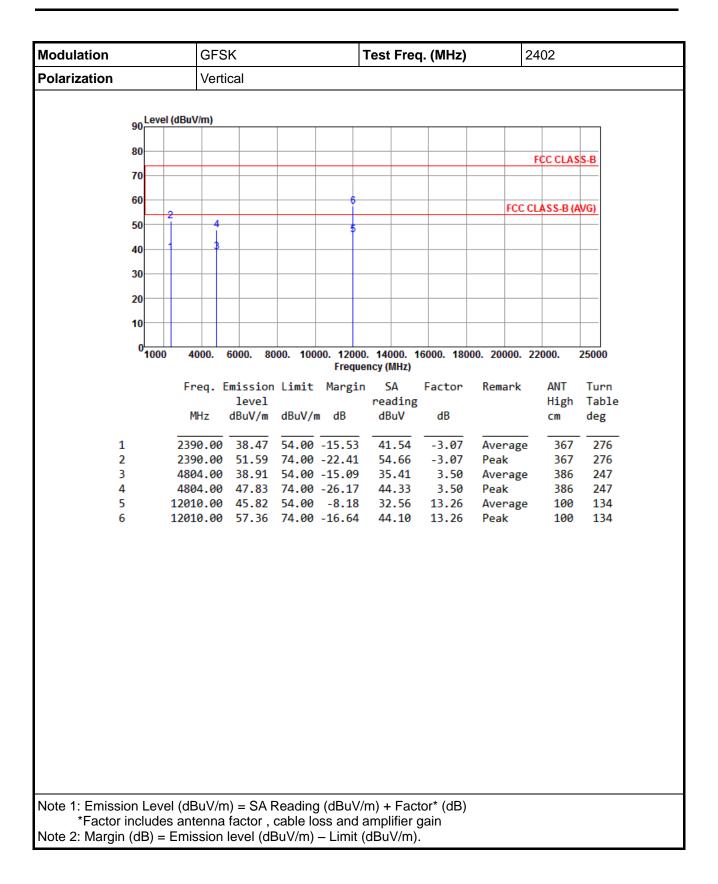
90 100 100 100 100 100 100 100 1	lodulation	GFSK	GFSK Test Freq. (MHz) 2402							
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Image: constraint of the second se	90									
Image: constraint of the second se	80									
Image: constraint of the second se	70									
Image: constraint of the second se	60									
Image: constraint of the second se							FCC CLAS	SS-B		
30 1 2 3 4 5 6 1	50									
20 1 2 3 4 5 0 10 10 200. 300. 400. 500. 600. 700. 800. 900. 100. Freq. Emission Limit Margin SA Factor Remark ANT Tur level Mtz dBuV/m dB dBuV dB cm deg 1 46.49 21.25 40.00 -18.75 29.71 -8.46 Peak 2 142.52 21.32 43.59 -22.18 30.10 -8.78 Peak 3 270.56 21.04 46.00 -24.96 30.13 -9.09 Peak 4 329.73 22.75 46.00 -23.25 29.94 -7.19 Peak 5 374.35 23.40 46.00 -20.74 30.61 -5.35 Peak 6 409.27 25.26 46.00 -20.74 30.61 -5.35 Peak 6 409.27 25.26 </td <td>40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	40									
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lote 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)										
lote 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain	6	409.27 25.26	46.00 -20.74	30.61	-5.35	Peak				
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Factor includes antenna factor , cable loss and amplifier gain	Note 1: Emission Level (dBuV/m) = SA I	Reading (dBuV/	m) + Fact	tor <u></u> (dB)					
$ dp\rangle = min(dp) - min(dp) - min(dp) + min(dp)$	*Factor includes a	ntenna factor,	cable loss and a	amplifier (gain					
lote 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). lote 3: All spurious emissions below 30MHz are more than 20 dB below the limit.	vote ∠: iviargin (dB) = Er	nission level (di	Buv/m) – Limit (MHz are more t	ubuv/m). han 20 di	B below ^{ti}	ha limit				



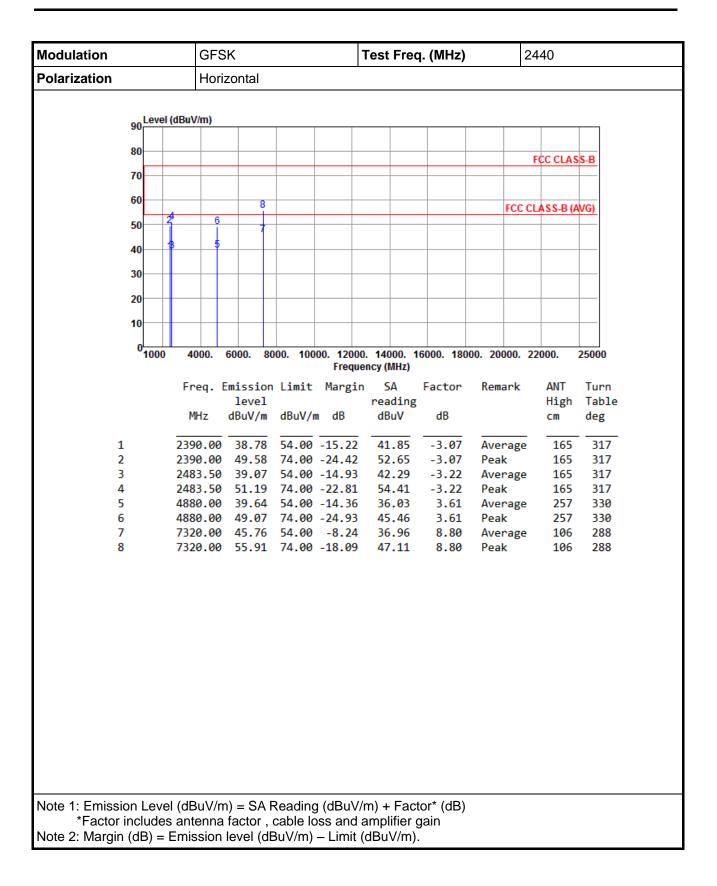
Modulation	GF	SK		Test Fr	eq. (MHz)	402						
Polarization			Horizontal									
		90 Level (dBuV/m)										
	90											
	80										CC CLAS	
	70									-	UU ULA:	5 <u>5-</u> 5
	60					6				FCC CL	ASS-B (AVG)
	50	2	4								-	
	40		3			ľ						
	40											
	30											
	20											
	10											
	0	1000	4000.	6000. 80)00. 100	00. 1200	0. 14000.	16000. 18	000. 200	00. 22	2000.	25000
							ency (MHz					
			Freq.	Emission	Limit	Margi		Factor	Rema	rk	ANT	Turn
				level	10.144	10	readi				High	
			MHz	dBuV/m	aBuv/i	n ab	dBuV	dB			cm	deg
	1	2	390.00	38.51	54.00	-15.49	41.5	8 -3.07	Aver	age	317	313
	2			51.19							317	
	3			41.58						age	127	
	4 5			49.5945.18						age	127 100	
	6			57.08							100	
Note 1. Emile	sion l	_evel (dRu\//i	m) = SA [Reading	r (dBuV	/m) + Ea	actor* (dB)			
Note 1: Emiss									/			
	r incl	udes à	Intenna	a factor,	cable lo	oss and	amplifie	r gain	/			

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

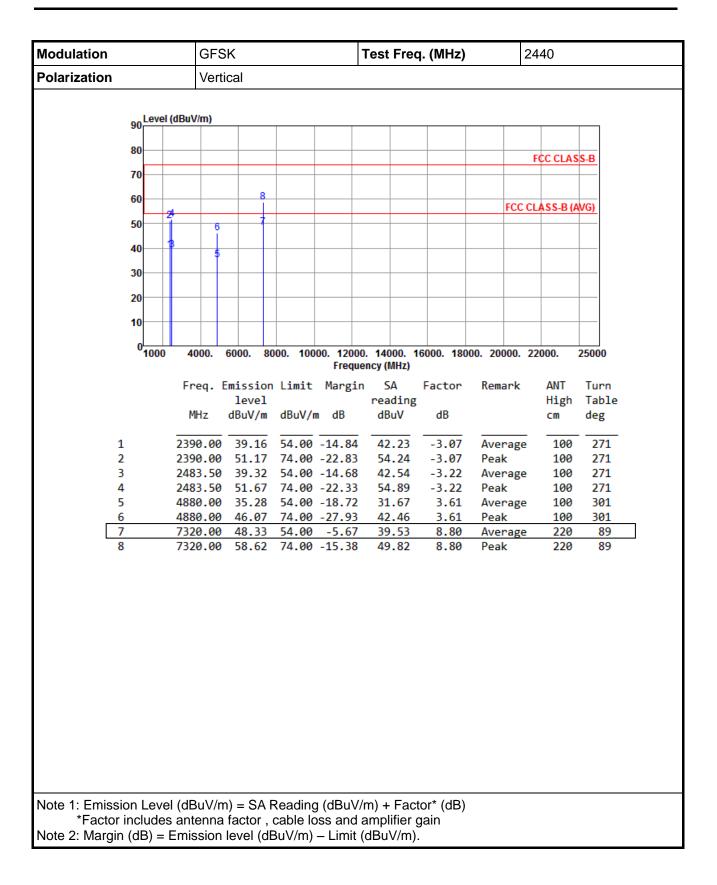




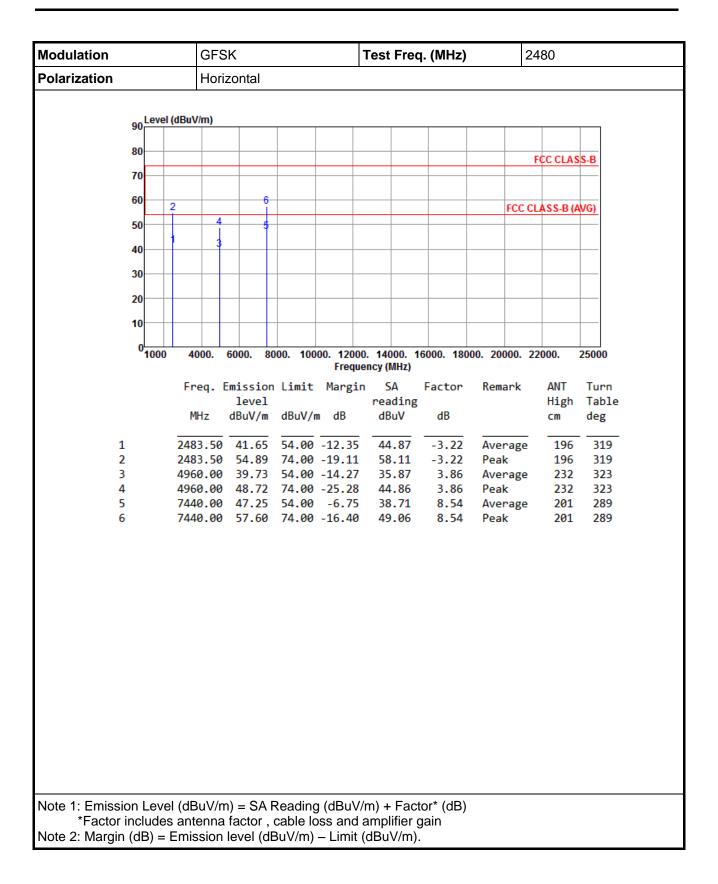




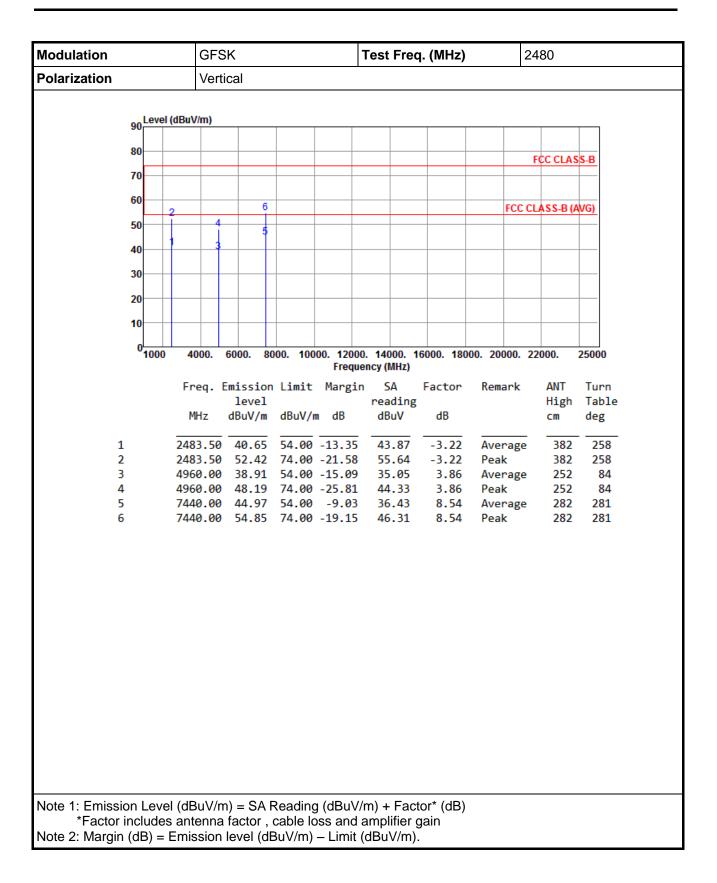














3.6 Emissions in non-restricted Frequency Bands

3.6.1 Emissions in non-restricted frequency bands limit

Peak power 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

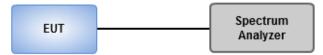
Reference level measurement

- 1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
- 2. Trace = max hold , Allow Trace to fully stabilize
- 3. Use the peak marker function to determine the maximum PSD level

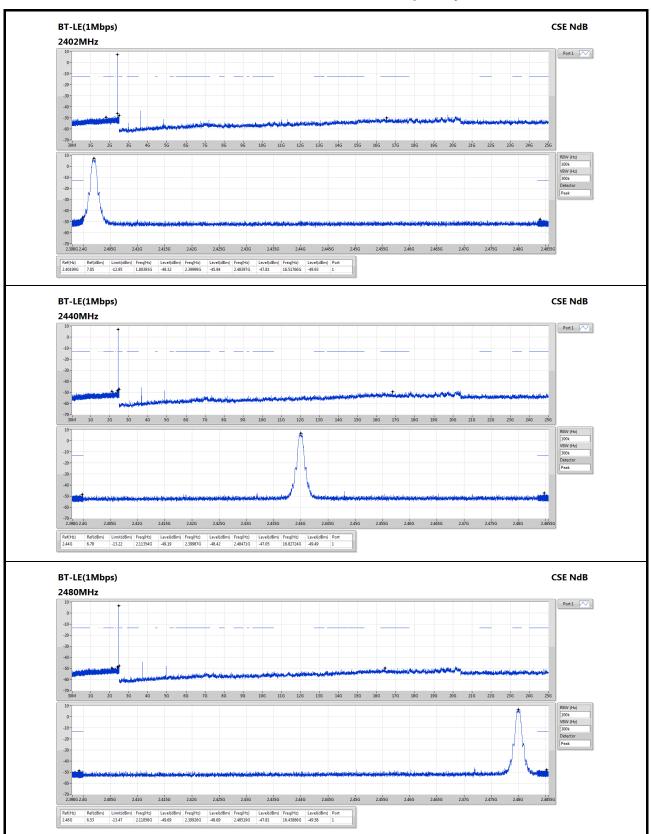
Emission level measurement

- 1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
- 2. Trace = max hold , Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 25GHz
- 4. Use the peak marker function to determine the maximum amplitude level

3.6.3 Test Setup







3.6.4 Test Result of Emissions in non-restricted Frequency Bands



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 (EMC and Wireless Communication Laboratory), 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 District. Location map can be found on our website <u>http://www.icertifi.com.tw</u>.

Linkou Tel: 886-2-2601-1640 No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C. Kwei Shan Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C. Kwei Shan Site II Tel: 886-3-271-8640 No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666 Fax: 886-3-318-0155 Email: ICC_Service@icertifi.com.tw

—END—